WKE

MAY 2023

PROJECT ID: 2200-20-70

COUNTY: WAUKESHA

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 694



10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C BROOKFIELD, BLUEMOUND ROAD

IH 94 TO EAST COUNTY LINE

USH 18

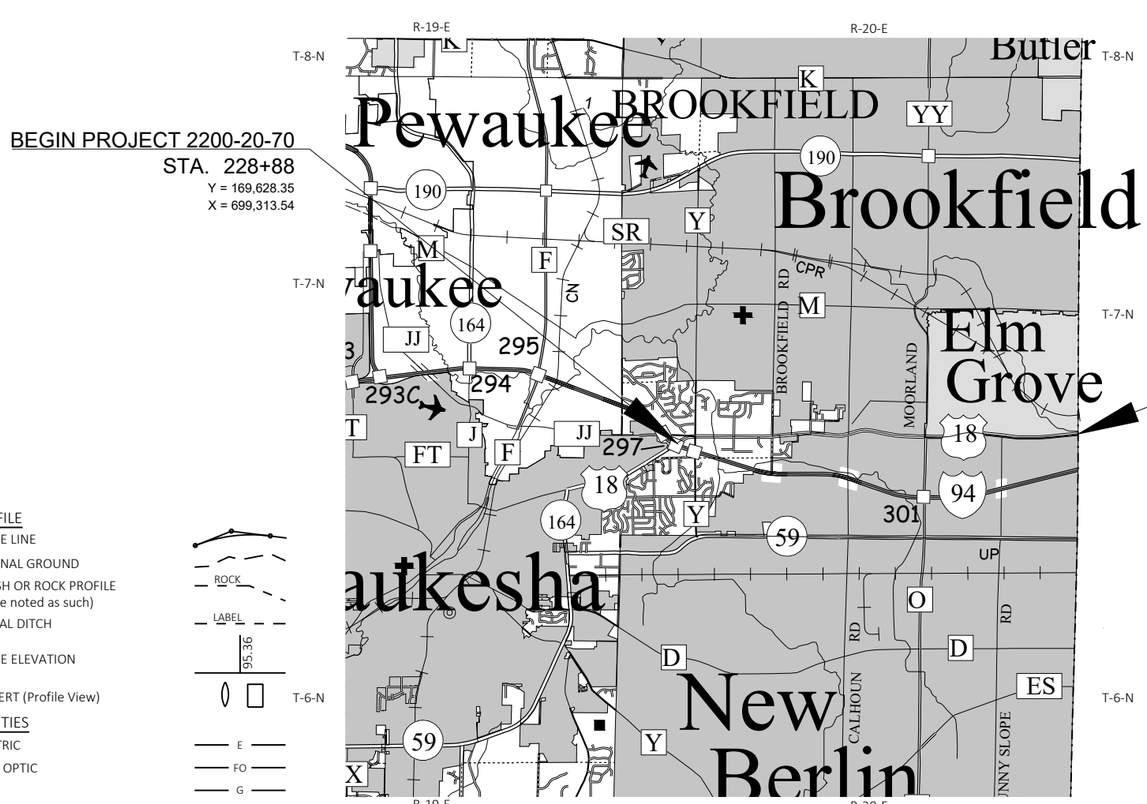
WAUKESHA COUNTY

STATE PROJECT NUMBER
2200-20-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2200-20-70	WISC 2023362	1

DESIGN DESIGNATION

A.A.D.T.	2020	=	33,100
A.A.D.T.	2030	=	36,000
D.H.V.		=	4,200
D.D.		=	54/46
T.		=	5.3
DESIGN SPEED		=	50 MPH
ESALS		=	1,700,000



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 5.350 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), WAUKESHA COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

CONVENTIONAL SYMBOLS

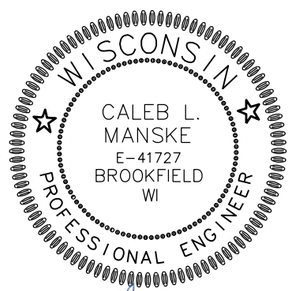
PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

ORIGINAL PLANS PREPARED BY

raSmith
CREATIVITY BEYOND ENGINEERING
rasmith.com



DATE: 01/26/2023 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WisDOT
Designer	raSmith
Project Manager	Bob Bellin
Regional Examiner	
Regional Supervisor	Ben Eruchalu
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 2/1/2023 (Signature)

E

2

UTILITY CONTACTS

ANR PIPELINE/TC ENERGY
- (GAS/PETROLEUM)
JASON JENSEN
6827 CONSOLIDATED SCHOOL ROAD
JANESVILLE, WI 53545
608-449-4640
jason_jensen@tcenergy.com

AT&T LOCAL NETWORK
- (COMMUNICATION LINE)
TIM LAPOINTE
281-352-3631 (office)
281-352-3631 (cell)
tl0695@att.com

AT&T WISCONSIN
- (COMMUNICATION LINE)
TYLER FLECK
220 WISCONSIN AVENUE
WAUKESHA, WI 53186
414-248-6803
TF8394@att.com

ATC MANAGEMENT
- (ELECTRICITY-TRANSMISSION)
CHRIS DAILEY
P.O. BOX 47
WAUKESHA, WI 53187
262-506-6884
cdailey@atcllc.com

BROOKFIELD SANITARY DISTRICT NO. 4
- (SEWER)
TONY SKOF
P.O. BOX 1296
BROOKFIELD, WI, 53008
262-798-8629
tonysd4@gmail.com

BROOKFIELD SANITARY DISTRICT NO. 4
- (WATER)
TONY SKOF
645 N. JANACEK ROAD
BROOKFIELD, WI, 53045
262-798-8629
tonysd4@gmail.com

CITY OF BROOKFIELD - (WATER)
DAN ERICKSON
2000 NORTH CALHOUN RD
BROOKFIELD, WI, 53005
262-787-3919
ericksond@ci.brookfield.wi.us

CITY OF BROOKFIELD - (SEWER)
DAN ERICKSON
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BROOKFIELD, WI, 53005
262-787-3919
ericksond@ci.brookfield.wi.us

CITY OF BROOKFIELD - (STREET LIGHTING)
THOMAS GRISA
2000 N CALHOUN ROAD
BROOKFIELD, WI, 53005
262-796-6644
grisa@ci.brookfield.wi.us

EVERSTREAM - (COMMUNICATION LINE)
SHAD GARCIA
324 E WISCONSIN AVE, SUITE 730
MILWAUKEE, WI 53202
414-522-6685
sgarcia@everstream.net

LEVEL 3 COMMUNICATIONS LLC
- (COMMUNICATION LINE)
BRAHIM GADDOUR
3235 INTERTECH DRIE, SUITE 600
BROOKFIELD, WI 53045
414-704-1026
brahim.gaddour@lumen.com

MIDWEST FIBER NETWORKS
- (COMMUNICATION LINE)
CORY SCHMUKI
6070 NORTH FLINT RD
GLENDALE, WI 53209
414-349-2764
cschmuki@midwestfibernetworks.com

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT - (SEWER)
MICKI KLAPPA-SULLIVAN
260 W SEEBOTH ST
MILWAUKEE, WI, 53204
414-225-2178
mklappasullivan@mmsd.com

PAETEC COMMUNICATIONS LLC
- (COMMUNICATIONS LINE)
LORI KETTER
314 N DANZ AVE
GREEN BAY, WI 54302-3526
920-410-6902
Lori.Ketter@windstream.com

SPECTRUM - COMMUNICATION LINE
NEAL LONG
1320 N DR MARTIN LUTHER KING JR DR
MILWAUKEE, WI 53212
414-430-7189
neal.long@charter.com

TDS METROCOM LLC
- (COMMUNICATIONS LINE)
JASON KENNY
525 JUNCTION ROAD
MADISON, WI 53717
262-514-2127
jason.kenny@tdstelecom.com

VERIZON BUSINESS
- (COMMUNICATIONS LINE)
RJ CICATELLO, JR.
15725 WEST RYERSON ROAD
NEW BERLIN, WI 53151
262-232-1323
randy.cicatello@verizon.com

VILLAGE OF ELM GROVE DEPARTMENT OF PUBLIC WORKS - (SEWER)
RICHARD PAUL, JR.
13600 JUNEAU BLVD
ELM GROVE, WI 53122-0906
262-782-6700
rpauljr@elmgrovewi.org

WISDOT ATR PULL BOXES
- (COMMUNICATION LINE)
RUSSELL LEWIS
3625 PEIRSTORFF STREET
MADISON, WI 53704
608-516-5754
russell.lewis@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
- (COMMUNICATION LINE)
JOHN MITTELSTADT
433 W ST PAUL AVE, STE 300
MILWAUKEE, WI 53203
608-205-7859
john.mittelstadt@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION - (STREET LIGHTING)
ERIC PEREA
935 S. 60TH STREET
WEST ALLIS, WI 53214
414-750-0935
eric.perea@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION - (TRAFFIC SIGNALS)
JOYCE MURPHY
141 NW BARSTOW STREET
WAUKESHA, WI 53188
262-548-5933
joyce.murphy@dot.wi.gov

WE ENERGIES - (ELECTRICITY)
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500 S 116TH STREET
WEST ALLIS, WI 53214
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1-800-662-4797 (24 HR DISPATCH)
gerard.hejlik@we-energies.com

WE ENERGIES - (GAS/PETROLEUM)
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700 S KANE STREET
BURLINGTON, WI 53105
262-763-1083
1-800-261-5325 (24 HR DISPATCH)
spenser.dooner@we-energies.com

WEST SHORE PIPELINE COMPANY
- (GAS/PETROLEUM)
ARIC AUFDERMAUER
414-391-8102
aaufdermauer@buckeye.com

DESIGN CONTACTS

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raSmith
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16745 W BLUEMOUND RD, STE 200
BROOKFIELD, WI 53005
262-317-3312
john.elkin@rasmith.com

GENERAL NOTES

1. EROSION CONTROL DEVICES ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER REQUIRED.

2. EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER.

3. ALL DISTURBED/GRADED/SOIL STOCKPILE AREAS SHALL BE PERMANENTLY RESTORED WITHIN FOURTEEN (14) CALENDAR DAYS OF ANY CONTRACTOR DISTURBANCE. IF THE CONTRACTOR ELECTS TO NOT PERMANENTLY RESTORE DISTURBED/GRADED/SOIL STOCKPILE AREAS (INCLUDING ALL PARTIAL/FULL CUTS AND FILLS, ADJUSTED/REPLACEMENT STORM SEWER, SIDEWALKS, CURBS, ETC...) WITHIN FOURTEEN (14) CALENDAR DAYS THEY SHALL BE RESTORED WITH TEMPORARY SEED AND EROSION MAT WITHIN FIVE (5) CALENDAR DAYS OF THE INITIAL & REPEATED DISTURBANCE. NO ADDITIONAL PAYMENT WILL BE MADE FOR TEMPORARY SEED AND EROSION MAT.

4. STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS, AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS TO BE LEFT FOR MORE THAN FOURTEEN (14) DAYS, RESTORE THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

5. RESHAPE, RESTORE, AND FINISH ALL PREVIOUSLY GRASSED AREAS DISTURBED OUTSIDE THE NORMAL CONSTRUCTION LIMITS AT NO EXPENSE TO THE DEPARTMENT.

6. PLACE TOPSOIL TO 1 INCH BELOW TOP OF ADJACENT CONCRETE CURBS OR SIDEWALKS IN SOD AREAS.

7. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS IN THE AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE THEIR ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA.

8. ALL CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE LINE UNLESS OTHERWISE NOTED.

9. VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS.

10. SAWCUT EXISTING ASPHALT AND CONCRETE PAVEMENT AT THE MATCHLINE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

11. REMOVAL OF ANY REINFORCEMENT LOCATED IN EXISTING CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM, AND NO ADDITIONAL COMPENSATION WILL BE GRANTED.

17. CONSTRUCT INSIDE EDGE OF SIDEWALK 1/2-INCH HIGHER THAN TOP OF CURB WHEN THEY ARE ADJACENT TO EACH OTHER.

18. DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.

22. ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

23. SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR AS COVERING SIGNS TYPE 1 OR TYPE II. IN LIEU OF COVERING WOOD POST MOUNTED SIGNS, THE CONTRACTOR MAY CHOOSE TO REMOVE AND REINSTALL THEM.

24. CONTACT THE PROJECT ENGINEER AND THE SOUTHEASTERN REGIONAL PLANNING COMMISSION (SEWRPC) AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

25. HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

HMA PAVEMENT			
LOCATIONS*	THICKNESS	LAYERS	DESIGNATION
USH 18 MAJOR SIDEROADS	4-INCH	ONE 1 $\frac{3}{4}$" UPPER LAYER ONE 2 $\frac{1}{4}$" LOWER LAYER	4 MT 58-28 S 3 MT 58-28 S
MINOR SIDEROADS & DRIVEWAYS	2-INCH	ONE 2" UPPER LAYER	4 MT 58-28 S
FRONTAGE ROAD	4-INCH	ONE 1 $\frac{3}{4}$" UPPER LAYER ONE 2 $\frac{1}{4}$" LOWER LAYER	4 LT 58-28 S 3 LT 58-28 S

* SEE PLAN DETAILS FOR SPECIFIC LOCATIONS

OTHER CONTACTS

WAUKESHA METRO
BRIAN ENGELKING, TRANSIT MANAGER
2311 BADGER DRIVE
WAUKESHA, WI 53188
262-524-3634
bengelki@ci.waukesha.wi.us

WDNR LIAISON
CRAIG WEBSTER
141 NW BARSTOW STREET
WAUKESHA, WI 53188
262-574-2141
craig.webster@wisconsin.gov

SEWRPC
ROB MERRY
W239 N1812 ROCKWOOD DRIVE
WAUKESHA, WI 53187-1607
(262) 953-4289
rmerry@sewrpc.org

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
CURB RAMP DETAILS
SIGNING PLAN
TRAFFIC SIGNALS
PAVEMENT MARKING
TRAFFIC CONTROL & CONSTRUCTION STAGING
ALIGNMENT PLAN

STANDARD ABBREVIATIONS

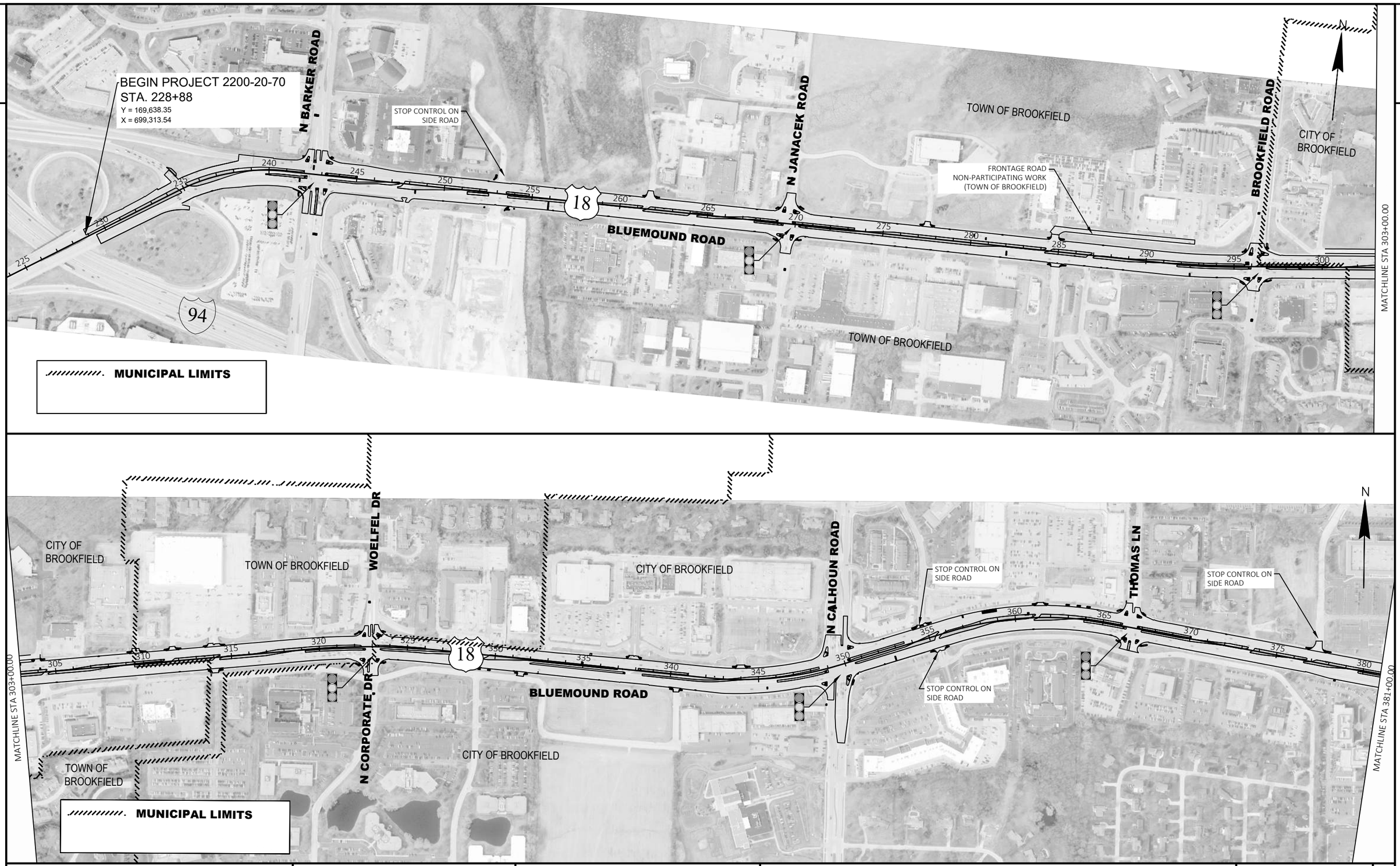
ADJ	ADJUST
BAD	BASE AGGREGATE DENSE
CE	COMMERCIAL ENTRANCE
CFS	CUBIC FEET PER SECOND
FPS	FEET PER SECOND
HP	HIGH POINT
LC	LATERAL CLEARANCE
LP	LOW POINT
MAX	MAXIMUM
OH	OVERHEAD
OPT	OPTIONAL
PC	PORTLAND CEMENT
PE	PRIVATE ENTRANCE
PSF	POUNDS PER SQUARE FOOT
REQ'D	REQUIRED
TYP	TYPICAL

FRONTAGE ROAD WORK

FRONTAGE ROAD IMPROVEMENT PLANS INCLUDED IN THIS PROJECT ARE PROVIDED BY STRAND ASSOCIATES ON BEHALF OF THE TOWN OF BROOKFIELD.

JUSTIN GUTOSKI, P.E.
STRAND ASSOCIATES, INC.
608-251-4843, EXT. 1019
JUSTIN.GUTOSKI@STRAND.COM

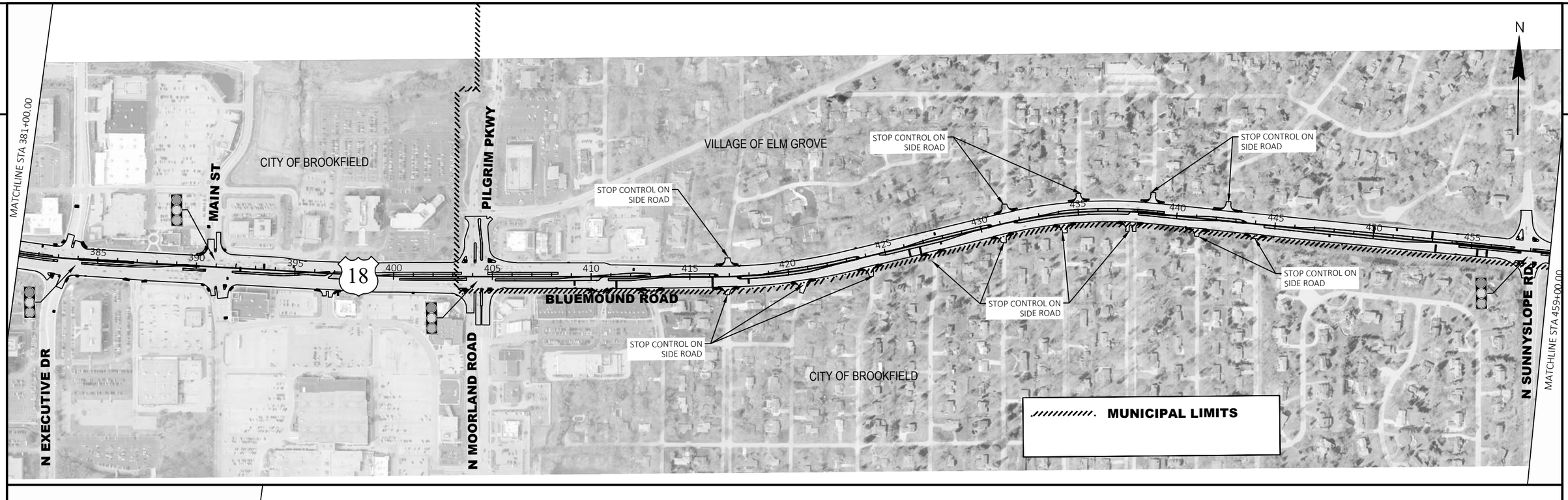
DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

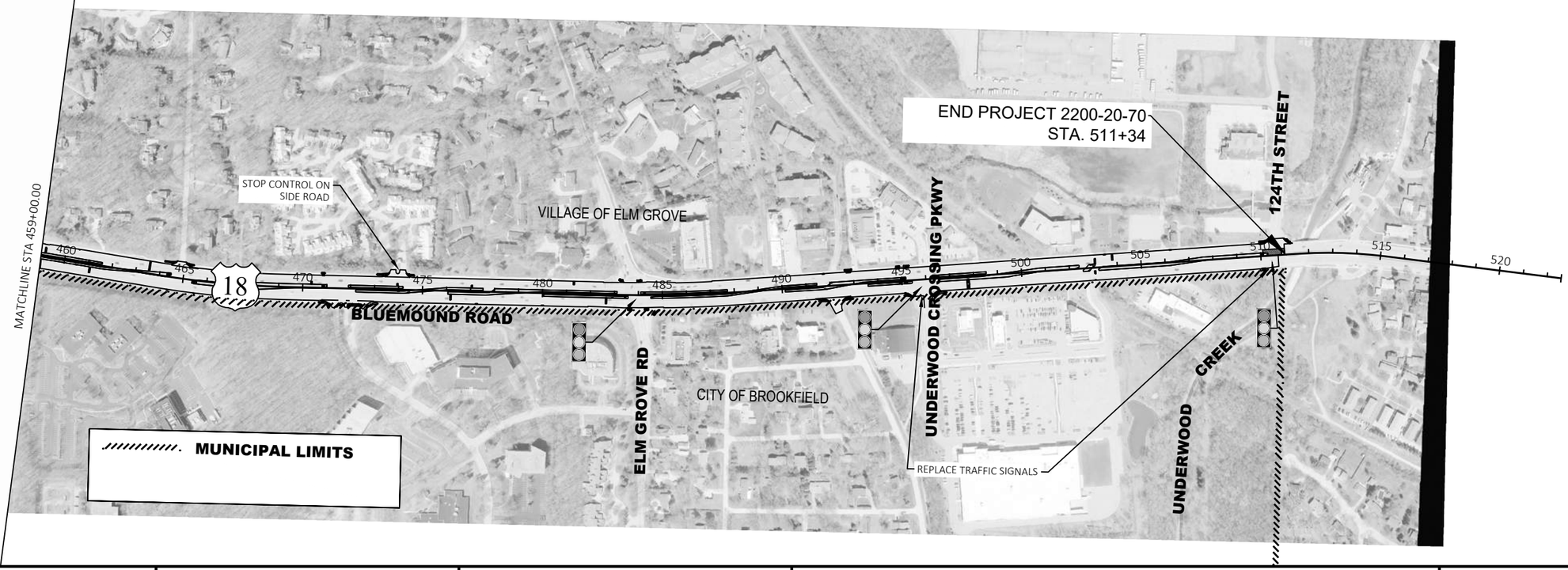


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PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - Sheet - (1)
PLOT DATE : 1/25/2023 7:49 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:500 FT
WISDOT/CADDS SHEET 44



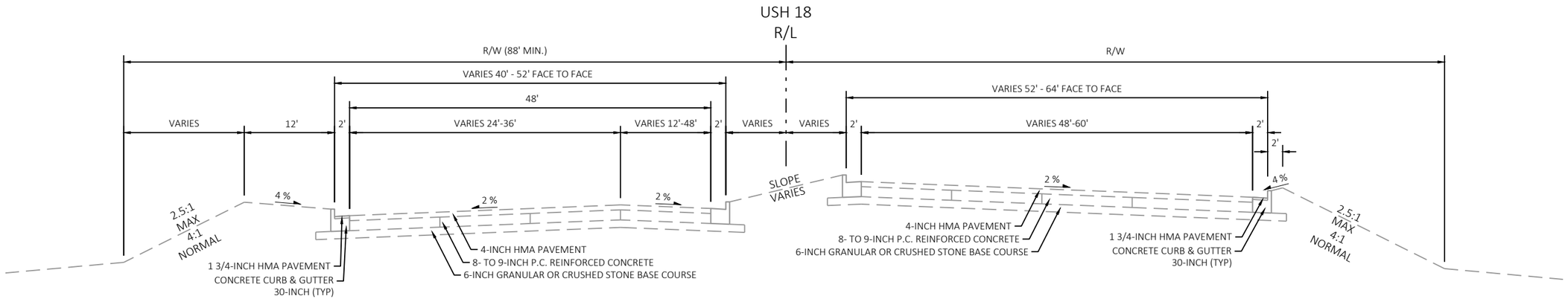


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LAYOUT NAME - Sheet - (2)

PLOT DATE : 1/25/2023 7:49 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:500 FT

2

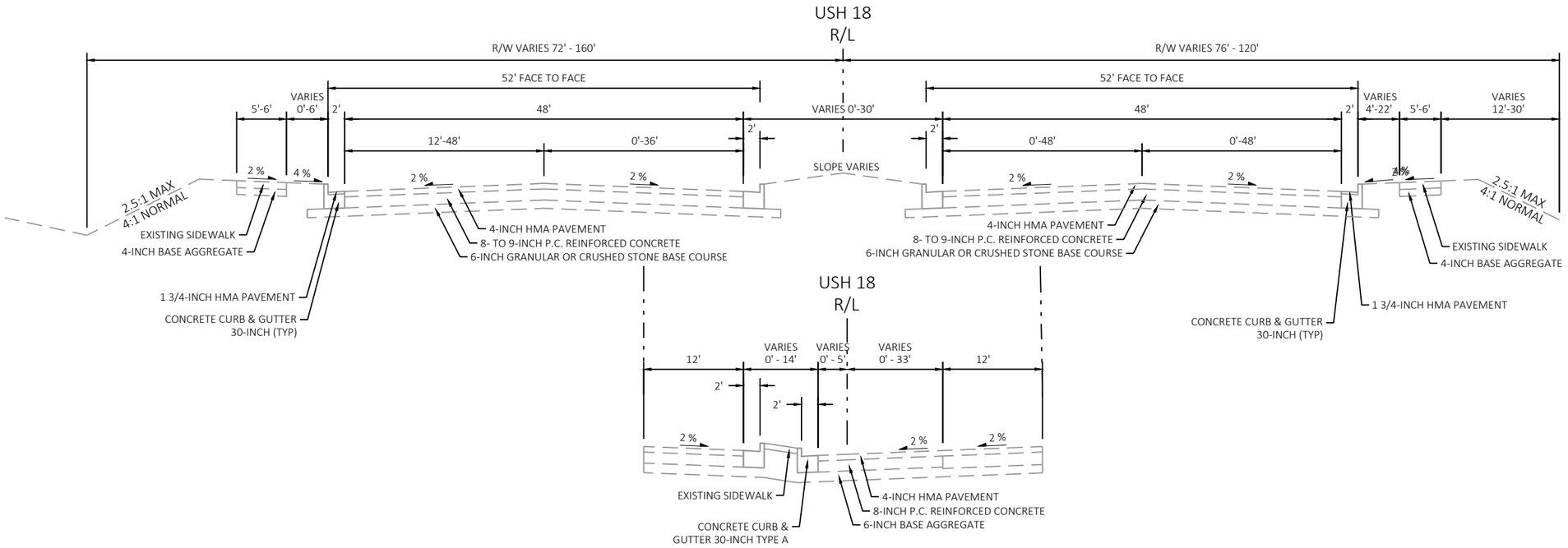


EXISTING TYPICAL SECTION

USH 18
STA. 228+86.38 - STA. 243+00

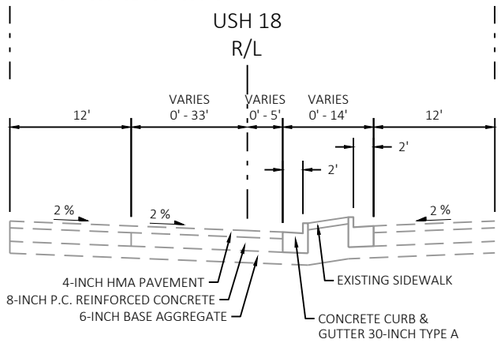
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 5	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020301-ts
PLOT DATE : 1/25/2023 7:49 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:15 FT



EASTBOUND

STA 257+42 - STA 259+77	STA 341+00 - STA 346+10
STA 280+31 - STA 282+89	STA 357+65 - STA 359+90
STA 307+01 - STA 309+46	STA 361+30 - STA 363+70
STA 316+86 - STA 319+20	STA 386+84 - STA 389+40
STA 333+62 - STA 336+04	



WESTBOUND

STA 265+30 - STA 267+64	STA 353+48 - STA 355+00
STA 273+38 - STA 275+77	STA 370+00 - STA 372+54
STA 333+49 - STA 335+92	STA 386+77 - STA 389+33

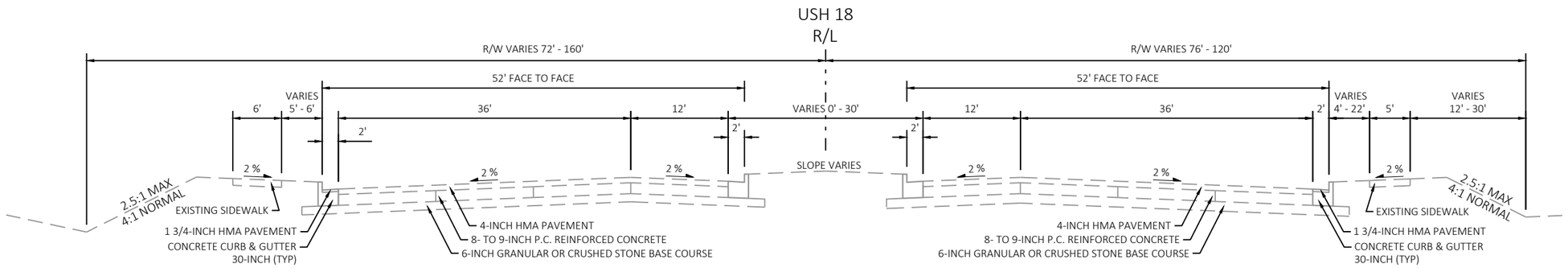
EXISTING TYPICAL SECTION

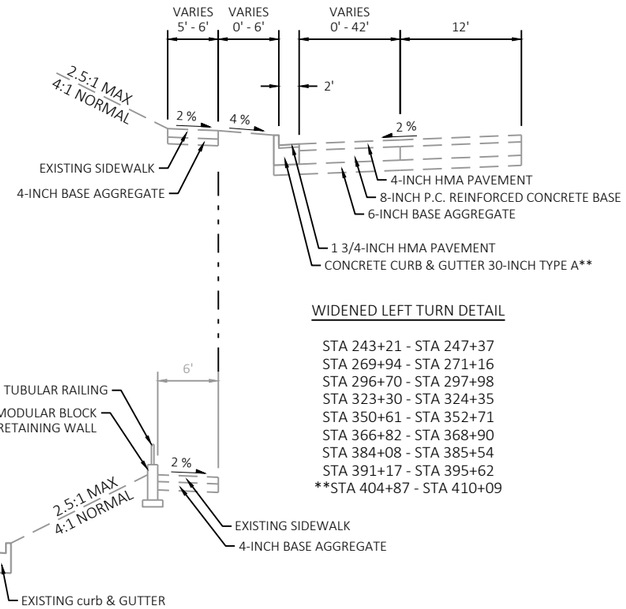
USH 18

STA 243+00 - STA 404+00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 6

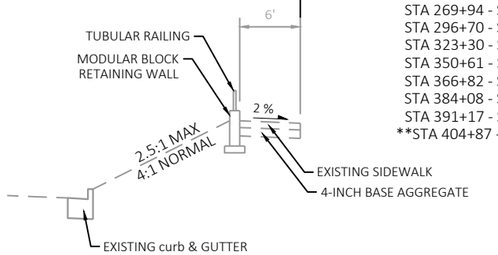
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PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:15 FT





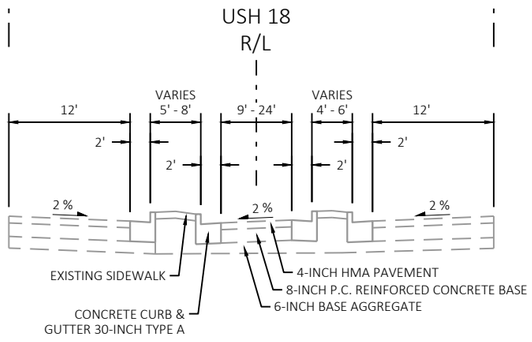
WIDENED LEFT TURN DETAIL

STA 243+21 - STA 247+37
STA 269+94 - STA 271+16
STA 296+70 - STA 297+98
STA 323+30 - STA 324+35
STA 350+61 - STA 352+71
STA 366+82 - STA 368+90
STA 384+08 - STA 385+54
STA 391+17 - STA 395+62
**STA 404+87 - STA 410+09



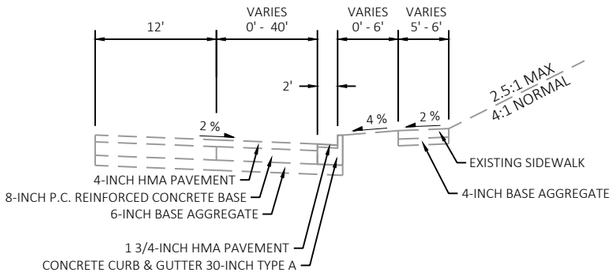
STA 405+40 - STA 406+20

** STA 404+87 - STA 410+09 CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH



SLOTTED LEFT TURN LANE AND MEDIAN DETAILS

STA 264+08 - STA 265+30 WB
STA 272+47 - STA 273+38 WB
STA 331+26 - STA 333+49 WB
STA 352+20 - STA 353+48 WB
STA 368+96 - STA 370+00 WB
STA 386+00 - STA 386+77 WB
STA 309+46 - STA 311+72 EB
STA 319+20 - STA 321+50 EB
STA 336+04 - STA 337+76 EB
STA 346+10 - STA 347+06 EB
STA 363+70 - STA 364+55 EB
STA 381+30 - STA 382+67 EB
STA 389+40 - STA 390+24 EB



WIDENED RIGHT TURN DETAIL

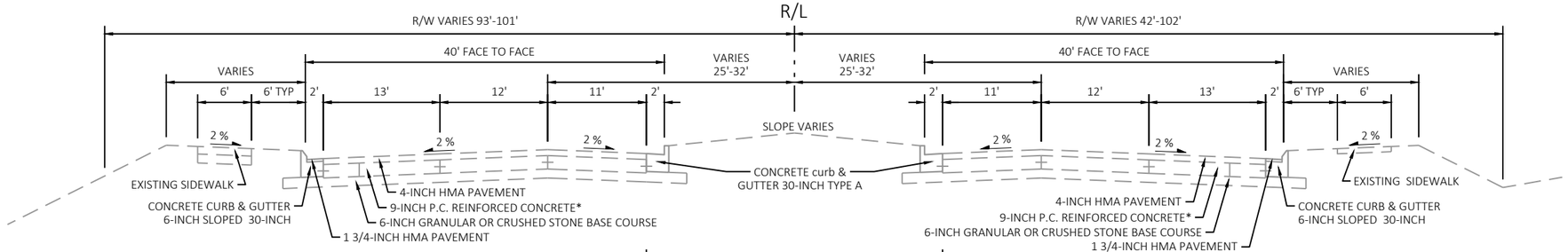
STA 238+00 - STA 242+11
STA 268+03 - STA 269+23
STA 294+67 - STA 295+80
STA 321+29 - STA 322+48
STA 345+82 - STA 348+60
STA 376+80 - STA 403+70

EXISTING TYPICAL SECTION

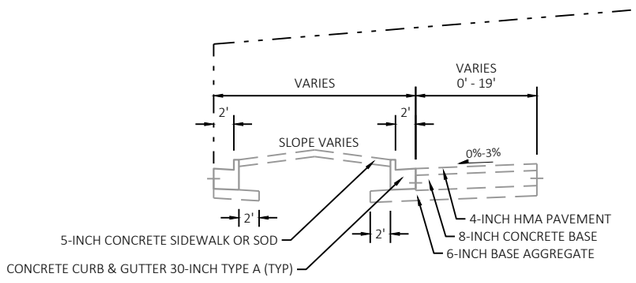
USH 18
SLOTTED LEFT TURN LANE AND WIDENED RIGHT TURN LANE DETAILS
STA 243+00 - STA 411+00

2

USH 18
R/L

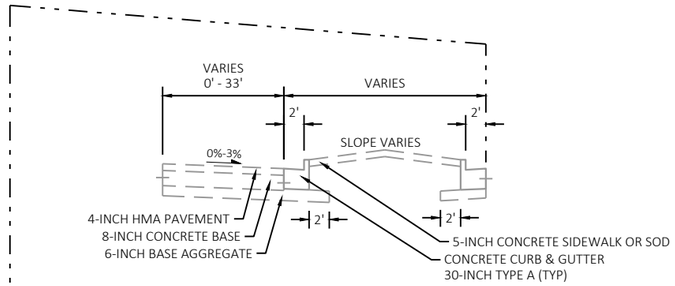


* 8-INCH CONCRETE BASE
FROM STA 497+75-STA 503+00



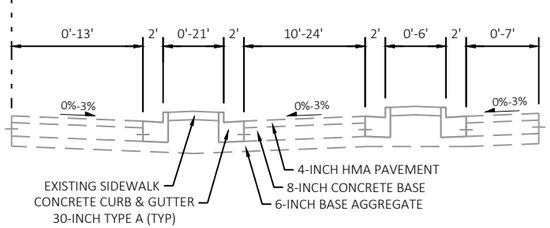
EASTBOUND LEFT TURN LANE DETAIL

STA 414+70 - STA 415+18	STA 478+04 - STA 480+01
STA 451+48 - STA 454+30	STA 491+83 - STA 493+35
STA 474+25 - STA 476+10	STA 500+89 - STA 502+14



WESTBOUND LEFT TURN LANE DETAIL

STA 408+30 - STA 410+35	STA 477+50 - STA 477+64
STA 444+00 - STA 441+68	STA 498+18 - STA 499+39
STA 461+50 - STA 463+50	

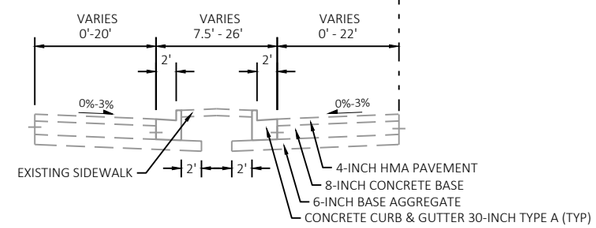


SLOTTED LEFT TURN LANE AND MEDIAN DETAIL

STA 407+00 - STA 408+30	STA 480+01 - STA 481+00
STA 410+90 - STA 412+90	STA 486+62 - STA 487+70
STA 454+30 - STA 456+00	STA 490+15 - STA 491+83
STA 460+44 - STA 461+50	STA 493+35 - STA 495+10
STA 476+10 - STA 477+50	STA 496+58 - STA 498+48

EXISTING TYPICAL SECTION

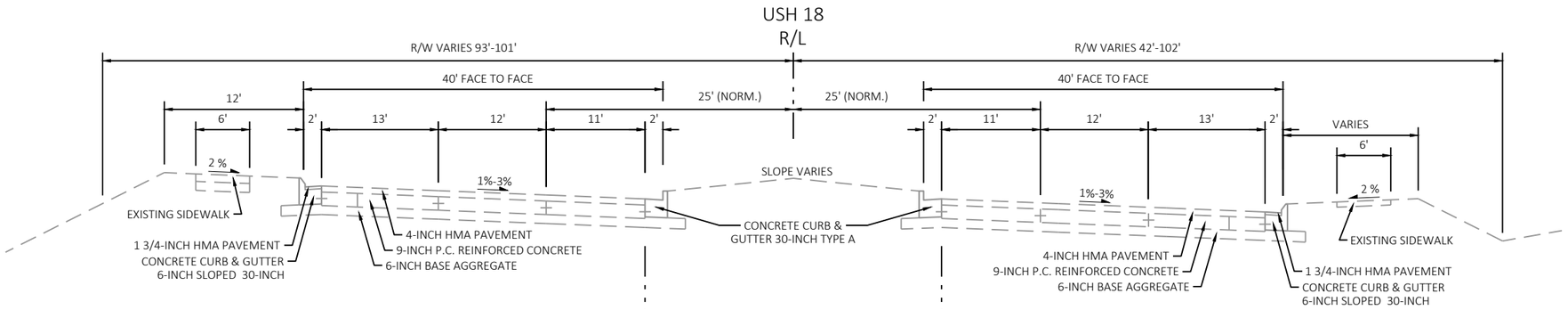
USH 18
STA 407+00 - STA 415+50
STA 424+00 - STA 431+50
STA 440+00 - STA 463+50
STA 470+00 - STA 511+34

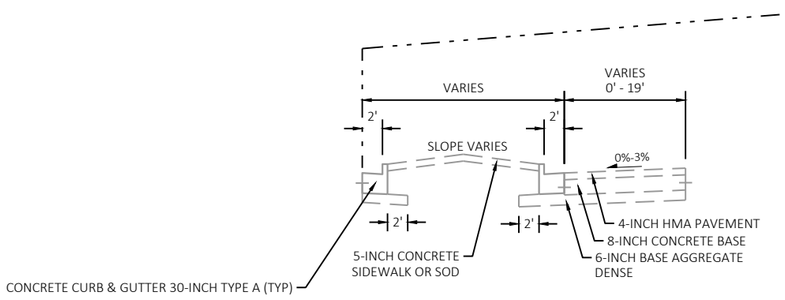


COMBINED EASTBOUND & WESTBOUND LEFT TURN LANE DETAIL

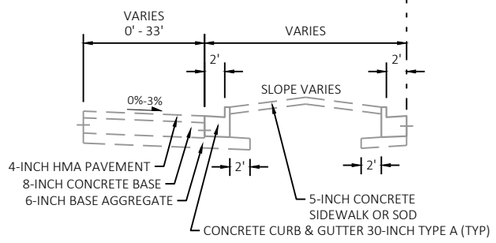
STA 410+35 - STA 410+90
STA 477+64 - STA 478+04
STA 412+90 - STA 414+70
STA 487+70 - STA 490+15
STA 499+39 - STA 500+86

2

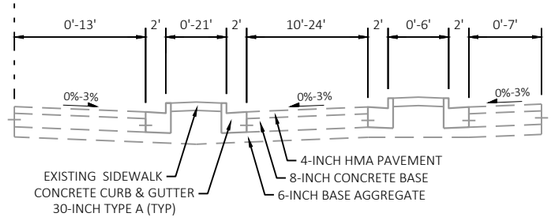




EASTBOUND LEFT TURN LANE DETAIL
STA 437+50-STA 438+05



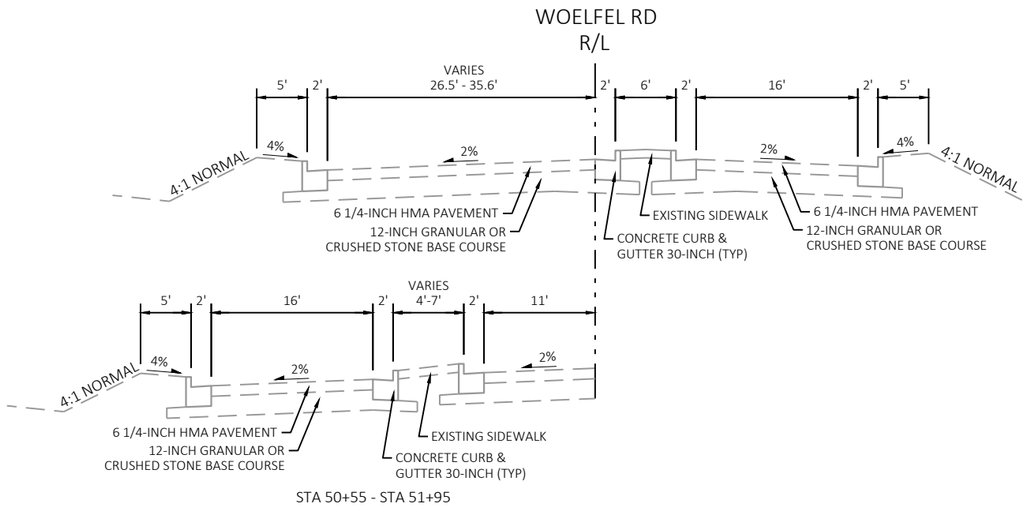
WESTBOUND LEFT TURN LANE DETAIL
STA 439+30 - STA 444+00
STA 463+50 - STA 464+48



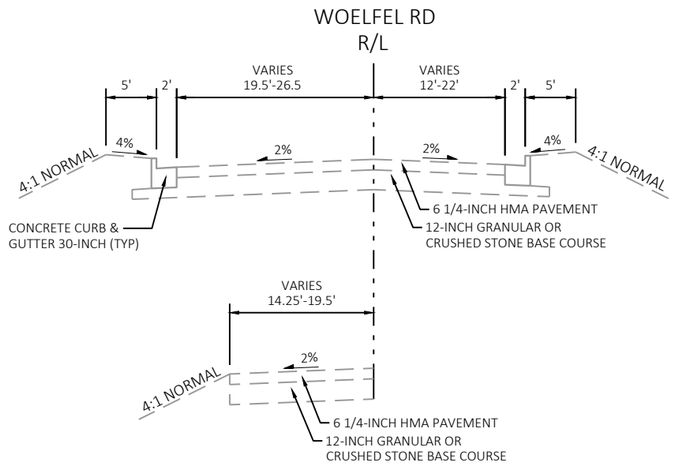
SLOTTED LEFT TURN LANE AND MEDIAN DETAIL
STA 438+08 - STA 439+30

EXISTING TYPICAL SECTION

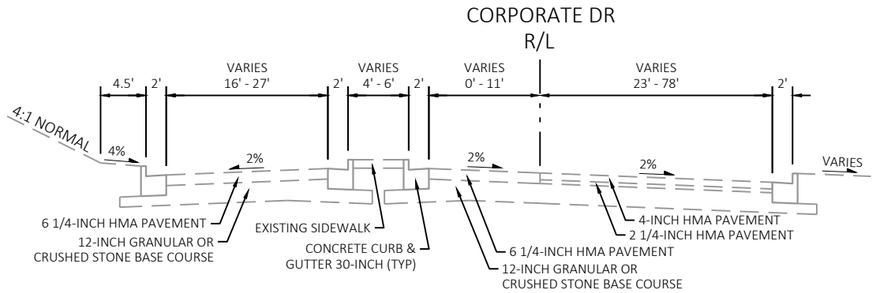
USH 18
STA 415+50 - STA 424+00
STA 431+50 - STA 437+50
STA 464+48 - STA 470+00



EXISTING TYPICAL SECTION
WOELFEL ROAD
STA 50+55 - STA 52+69

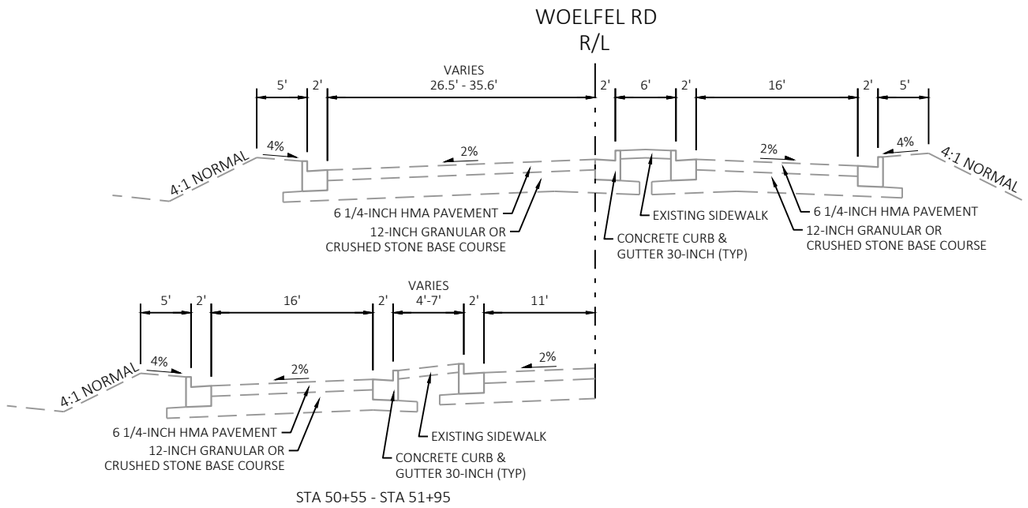


EXISTING TYPICAL SECTION
WOELFEL ROAD
STA 52+69 - STA 54+13



EXISTING TYPICAL SECTION
CORPORATE DRIVE
STA 48+46 - STA 49+30

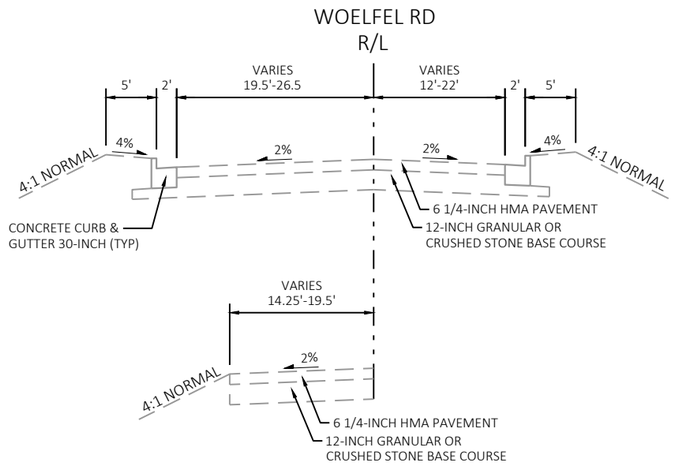
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 10	E



STA 50+55 - STA 51+95

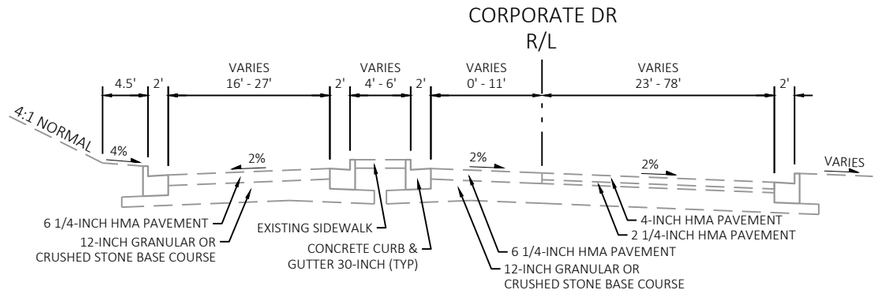
EXISTING TYPICAL SECTION

WOELFEL ROAD
STA 50+55 - STA 52+69



EXISTING TYPICAL SECTION

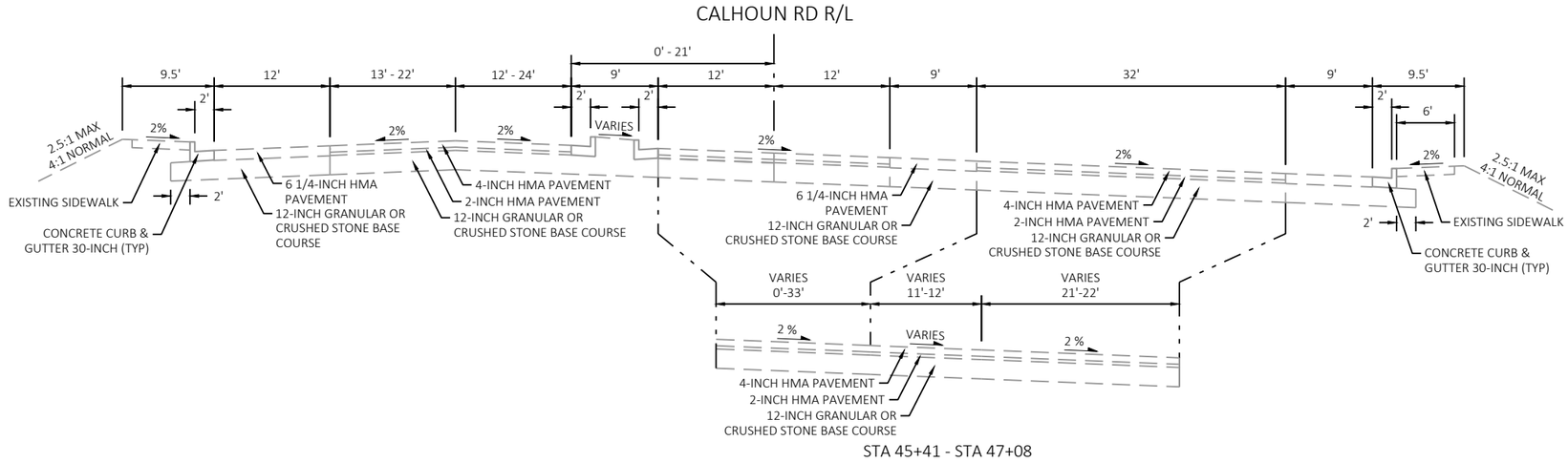
WOELFEL ROAD
STA 52+69 - STA 54+13



EXISTING TYPICAL SECTION

CORPORATE DRIVE
STA 48+46 - STA 49+30

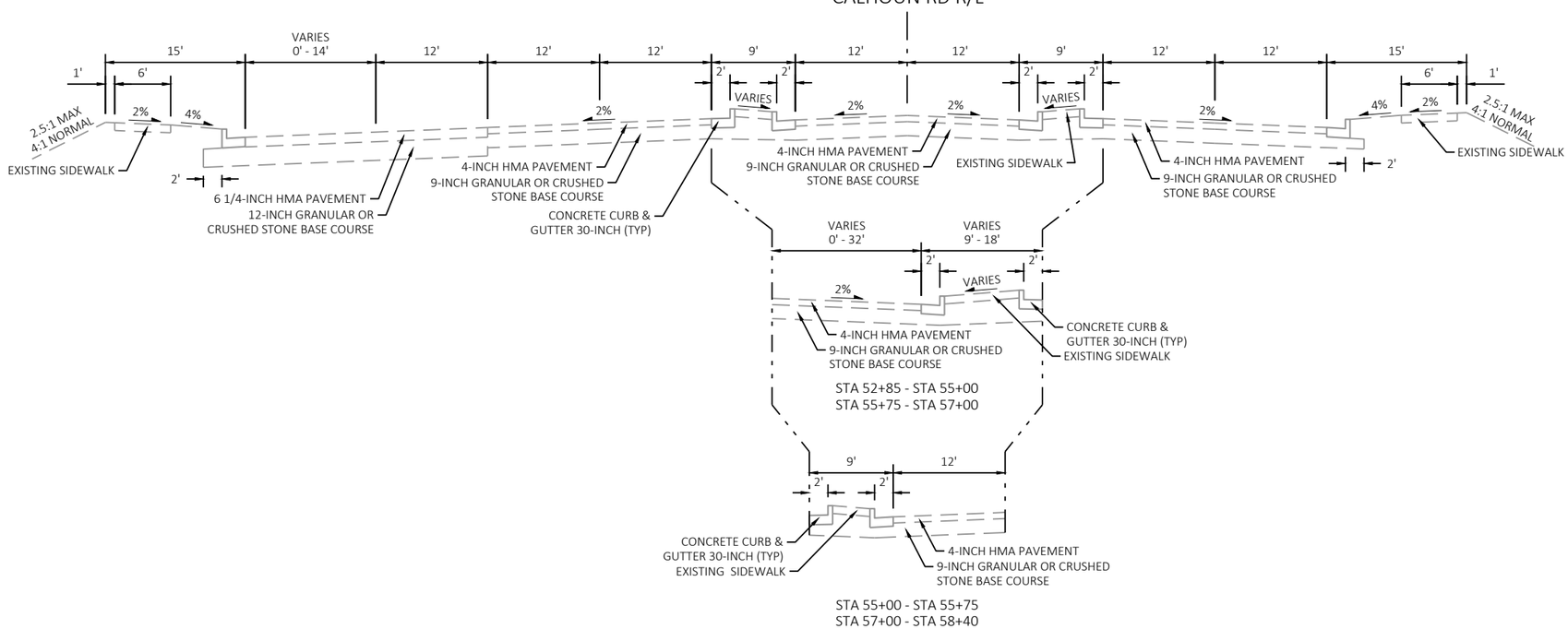
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 11	E



STA 45+41 - STA 47+08

EXISTING TYPICAL SECTION

CALHOUN RD
STA 45+41 - STA 49+15

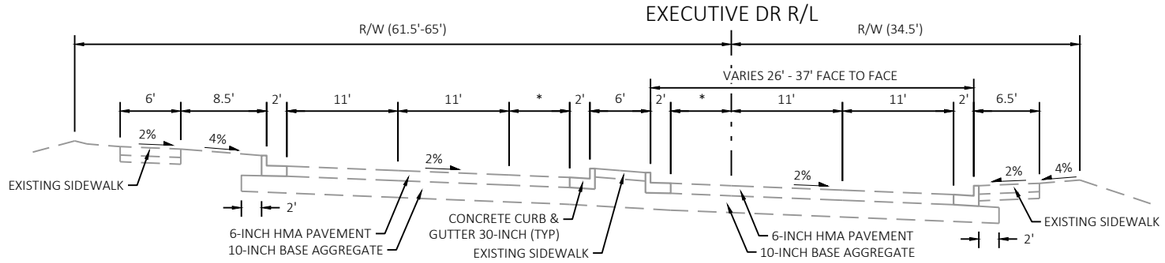


EXISTING TYPICAL SECTION

CALHOUN RD
STA 50+80 - STA 58+40

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 12	E

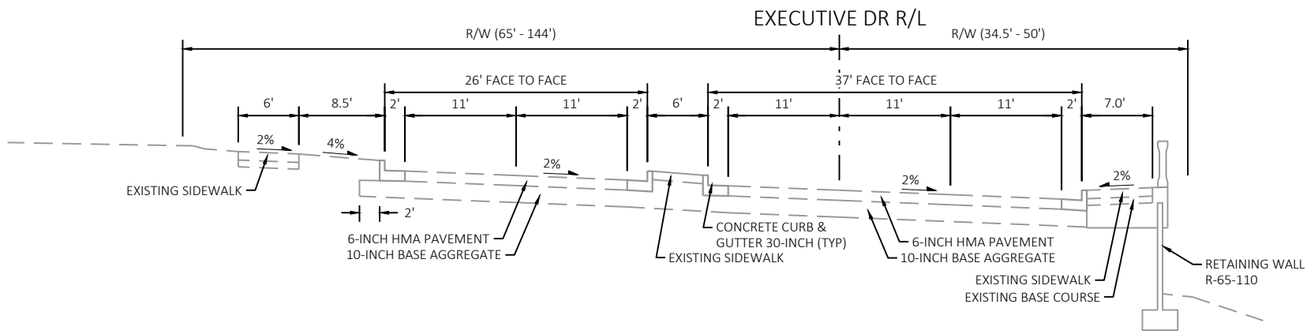
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020307-ts
PLOT DATE : 1/25/2023 7:49 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:15 FT



*LEFT TURN LANE
STA 43+50 - STA 45+20
VARIES 0'-11'

EXISTING TYPICAL SECTION

EXECUTIVE DRIVE
STA 43+50 - STA 46+25

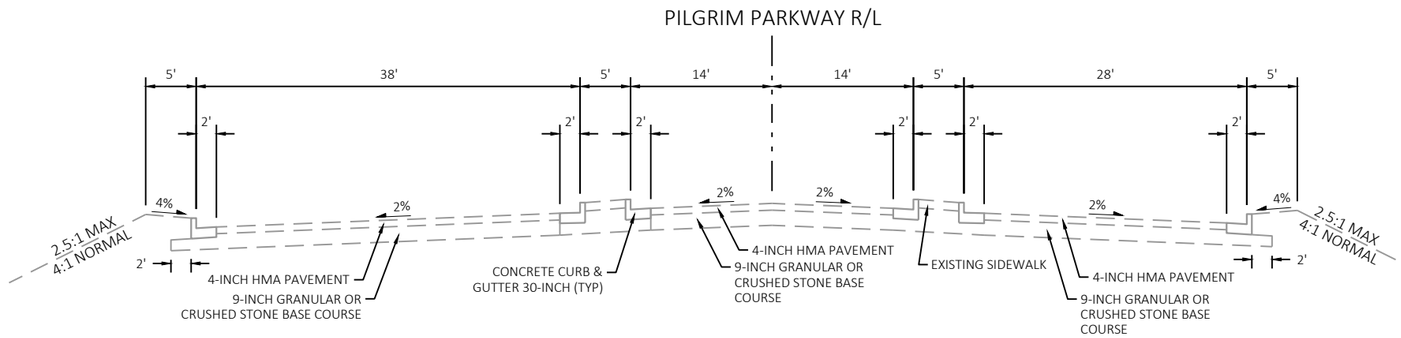


EXISTING TYPICAL SECTION

EXECUTIVE DRIVE
STA 46+25 - STA 47+75

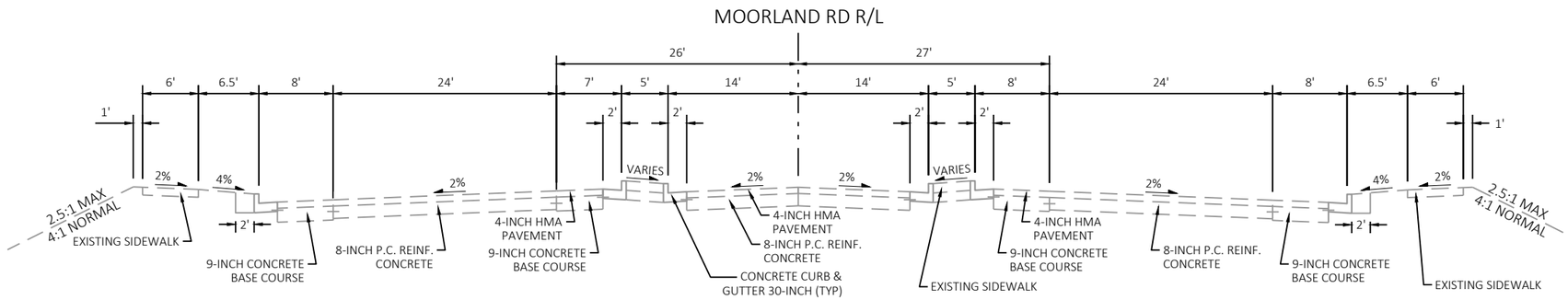
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 13	E

2



EXISTING TYPICAL SECTION

PILGRIM PARKWAY



EXISTING TYPICAL SECTION

MOORLAND ROAD

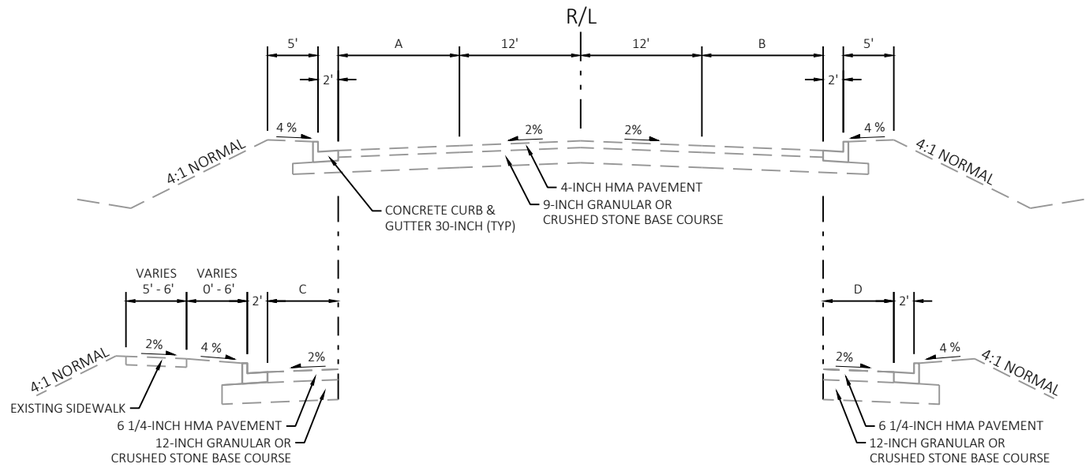
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 14	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020309-ts

PLOT DATE : 1/25/2023 7:49 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:15 FT

WISDOT/CADDS SHEET 42

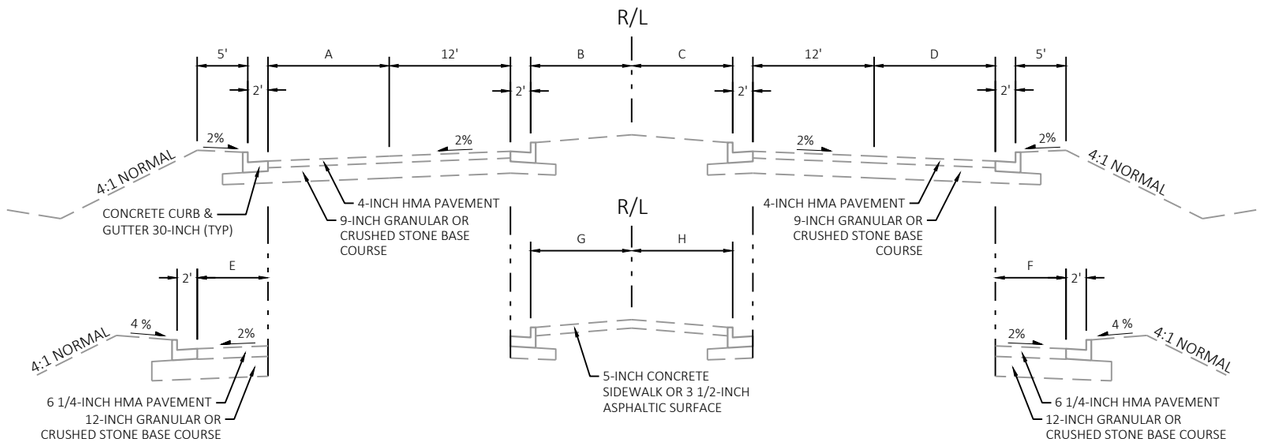
DIMENSIONS				
SIDE STREET	A	B	C	D
POPLAR CREEK PARKWAY	8'	8'	0'	0'
JANACEK ROAD	0' - 9'	0' - 10'	0' - 30'	0' - 30'
BROOKFIELD ROAD	9' - 11'	2' - 28'	0' - 30'	0' - 30'
REINDERS DRIVE	2'	2'	0'	0'
RUF ROAD	7'	7'	0'	0'
WESTMOOR DRIVE/TERRACE DRIVE	0'	0'	-	-
PROSPECT DRIVE	0'	0'	-	-
LEANORE LANE	0'	0'	-	-
ROSEDALE DRIVE	0'	0'	-	-
ELMRIDGE AVENUE	0'	0'	-	-
CRYSTAL LANE	0'	0'	-	-
HI VIEW COURT	0'	0'	-	-
BEAUMONT AVENUE	0'	0'	-	-
VERNON PLACE	0'	0'	-	-
EASTMOOR AVENUE	0'	0'	-	-
MEADOW LANE	0'	0'	-	-
N COLUMBIA BOULEVARD	4'	4'	-	-
124TH STREET	12'	4'	-	-



EXISTING TYPICAL SECTION

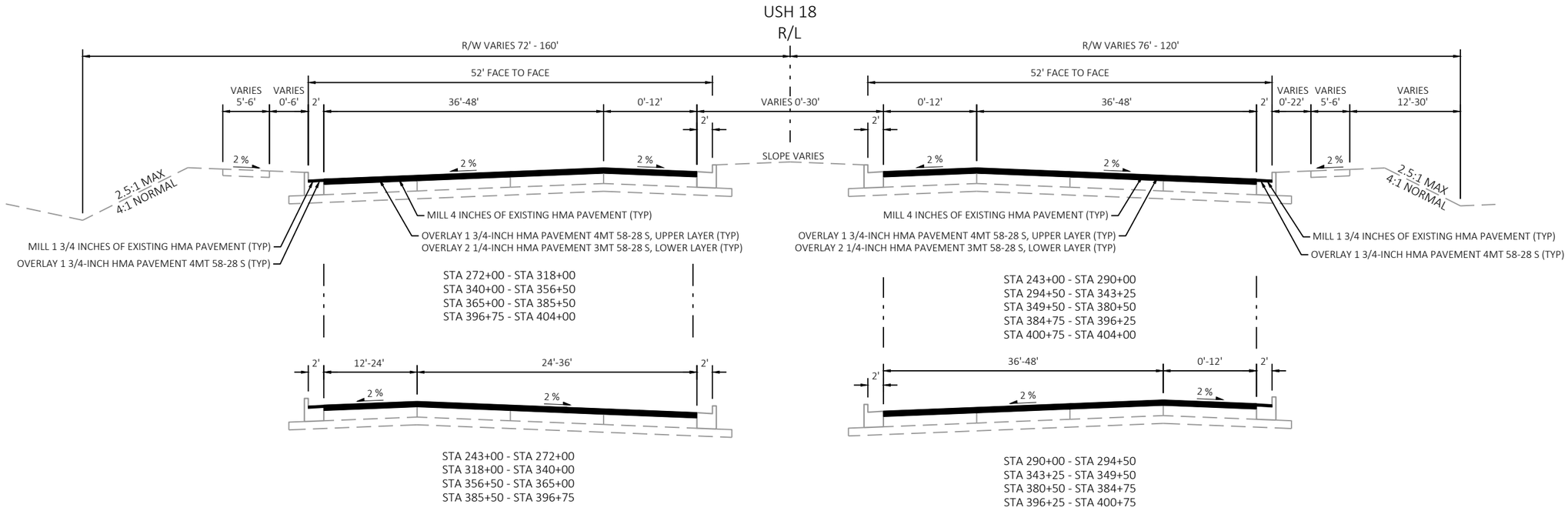
SIDE ROAD WITH NO MEDIAN
(SEE TABLE)

DIMENSIONS								
SIDE STREET	A	B	C	D	E	F	G	H
BARKER ROAD (NORTH)	10' - 14'	11' - 20'	0' - 23'	16'	7.5' - 23'	0' - 32'	-	-
BARKER ROAD (SOUTH)	23'	20'	14' - 24'	23'	0' - 40'	0'	-	-
MARCUS DRIVE	7'	4.5'	4.5'	7'	0'-0"	0'	-	-
THOMAS LANE	9'	0' - 9.4'	0' - 8.8'	11' - 40'	0' - 30'	0' - 32'	0' - 8.8'	0' - 8.8'
MAIN STREET	10' - 21'	5'	5'	10' - 23'	0' - 14'	0' - 30'	-	-
PARK BOULEVARD	4'	9'	9'	4'	-	-	-	-
PARK CIRCLE	8'	6'	6'	8'	-	-	-	-



EXISTING TYPICAL SECTION

SIDE ROAD WITH RAISED MEDIAN
(SEE TABLE)

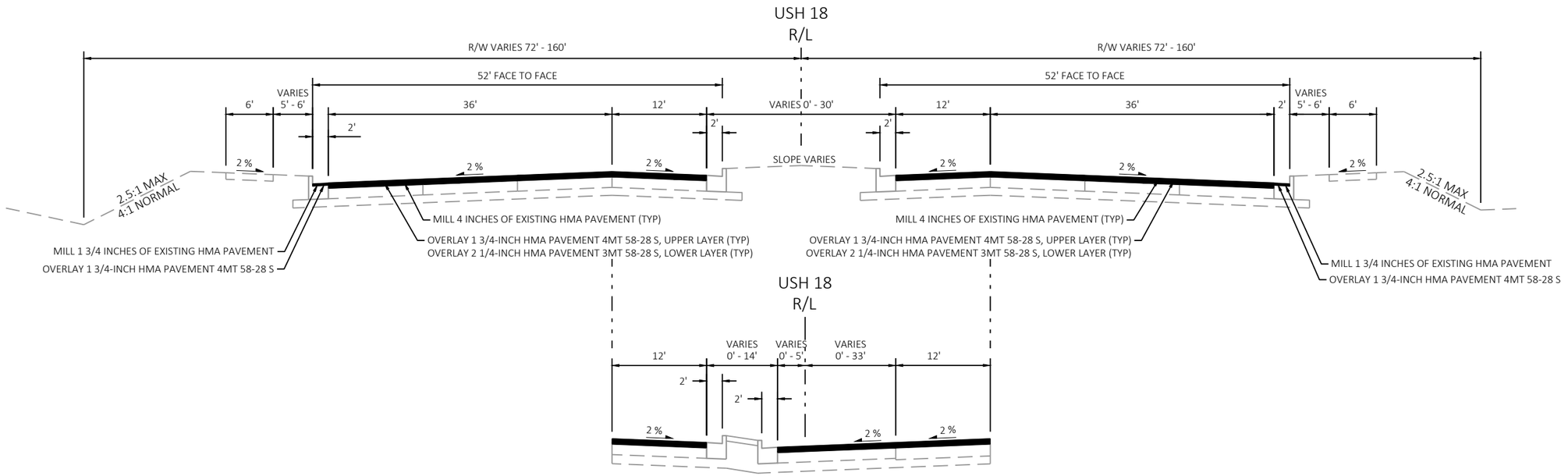


PROPOSED TYPICAL SECTION

USH 18
MAINLINE AND SIDEWALK DETAILS
STA 243+00 - STA 404+00

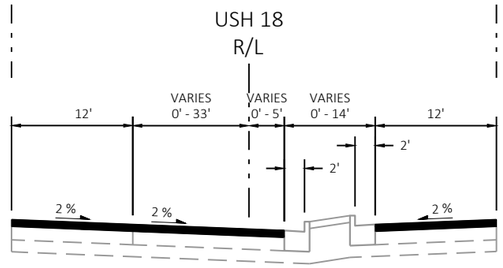
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 16

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020312-ts
PLOT DATE : 1/25/2023 7:50 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:15 FT
WISDOT/CADDS SHEET 42



EASTBOUND

STA 257+42 - STA 259+77	STA 341+00 - STA 346+10
STA 280+31 - STA 282+89	STA 357+65 - STA 359+90
STA 307+01 - STA 309+46	STA 361+30 - STA 363+70
STA 316+86 - STA 319+20	STA 386+84 - STA 389+40
STA 333+62 - STA 336+04	



WESTBOUND

STA 265+30 - STA 267+64	STA 353+48 - STA 355+00
STA 273+38 - STA 275+77	STA 370+00 - STA 372+54
STA 333+49 - STA 335+92	STA 386+77 - STA 389+33

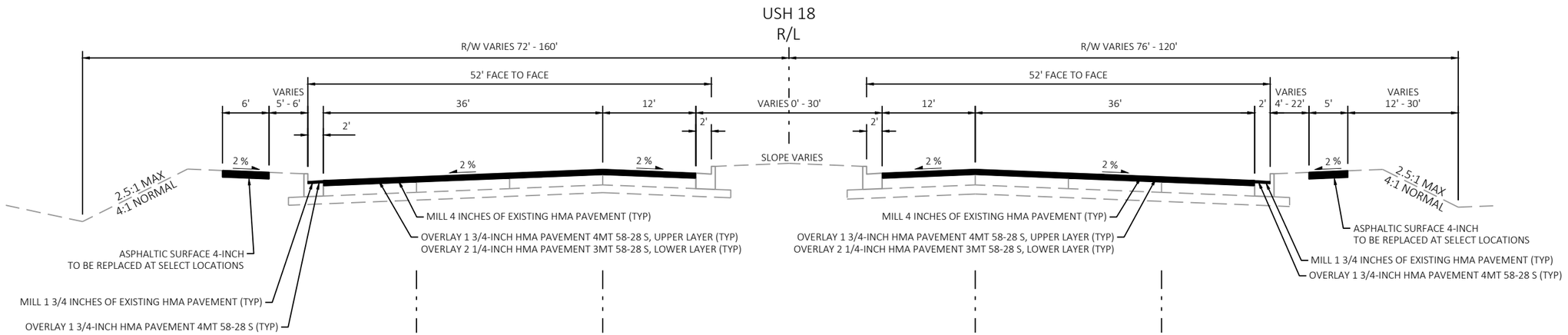
PROPOSED TYPICAL SECTION

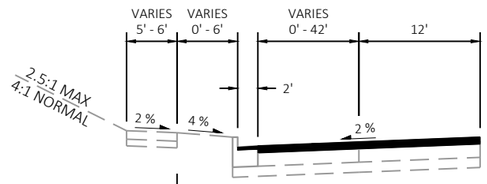
USH 18
LEFT TURN LANE MEDIAN DETAILS
STA 243+00 - 404+00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 17 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020313-ts
PLOT DATE : 1/25/2023 7:50 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:15 FT

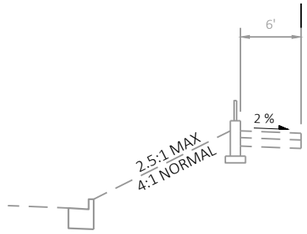
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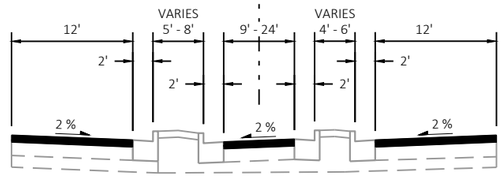


WIDENED RIGHT TURN DETAIL

STA 243+21 - STA 247+37
STA 269+94 - STA 271+16
STA 296+70 - STA 297+98
STA 323+30 - STA 324+35
STA 350+61 - STA 352+71
STA 366+82 - STA 368+90
STA 384+08 - STA 385+54
STA 391+17 - STA 395+62
**STA 404+87 - STA 410+09



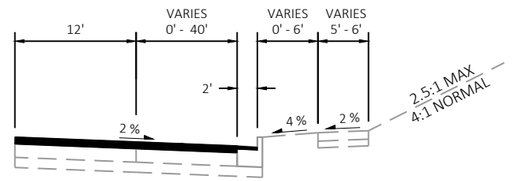
STA 405+40 - STA 406+20



SLOTTED LEFT TURN LANE AND MEDIAN DETAILS

STA 264+08 - STA 265+30 WB
STA 272+47 - STA 273+38 WB
STA 331+26 - STA 333+49 WB
STA 352+20 - STA 353+48 WB
STA 368+96 - STA 370+00 WB
STA 386+00 - STA 386+77 WB

STA 309+46 - STA 311+72 EB
STA 319+20 - STA 321+50 EB
STA 336+04 - STA 337+76 EB
STA 346+10 - STA 347+06 EB
STA 363+70 - STA 364+55 EB
STA 381+30 - STA 382+67 EB
STA 389+40 - STA 390+24 EB



WIDENED RIGHT TURN DETAIL

STA 238+00 - STA 242+11
STA 268+03 - STA 269+23
STA 294+67 - STA 295+80
STA 321+29 - STA 322+48
STA 345+82 - STA 348+60
STA 376+80 - STA 403+70

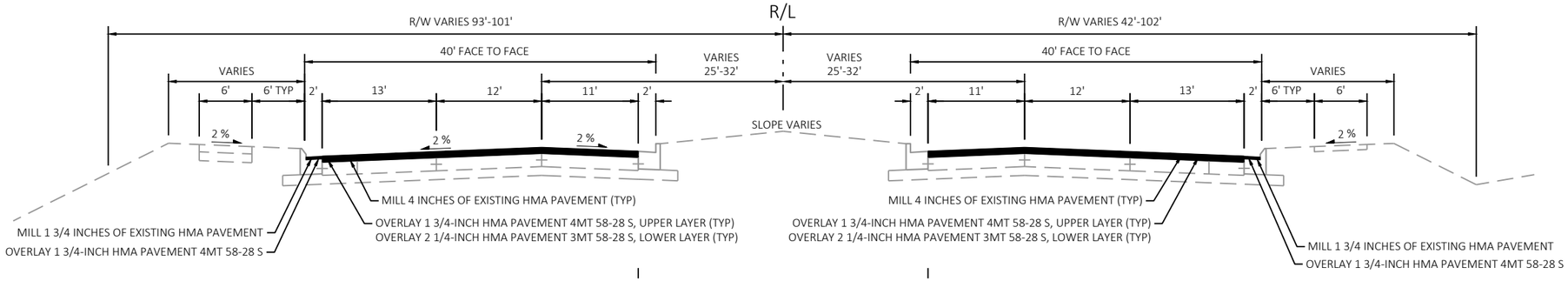
PROPOSED TYPICAL SECTION

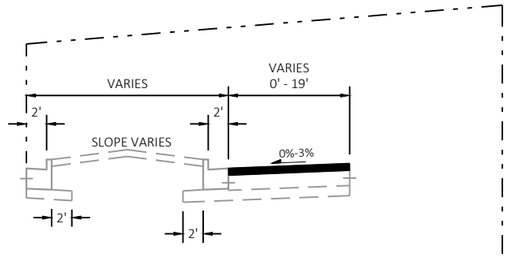
USH 18
SLOTTED LEFT TURN LANE AND WIDENED RIGHT TURN LANE DETAILS
STA 243+00 - STA 411+00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 18	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020314-ts
PLOT DATE : 1/25/2023 7:50 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:15 FT
WISDOT/CADDS SHEET 42

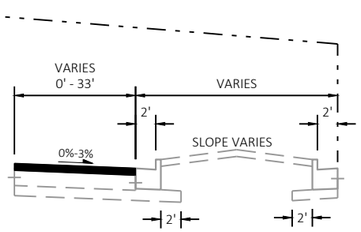
USH 18
R/L





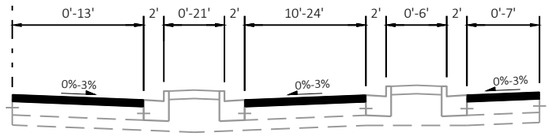
EASTBOUND LEFT TURN LANE DETAIL

STA 414+70 - STA 415+18
STA 451+48 - STA 454+30
STA 474+25 - STA 476+10
STA 478+04 - STA 480+01
STA 491+83 - STA 493+35
STA 500+89 - STA 502+14



WESTBOUND LEFT TURN LANE DETAIL

STA 408+30 - STA 410+35
STA 444+00 - STA 441+68
STA 461+50 - STA 463+50
STA 477+50 - STA 477+64
STA 498+18 - STA 499+39

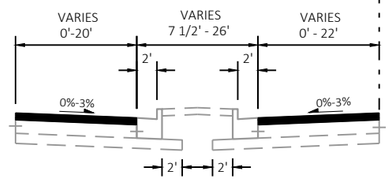


SLOTTED LEFT TURN LANE AND MEDIAN DETAIL

STA 407+00 - STA 408+30
STA 410+90 - STA 412+90
STA 454+30 - STA 456+00
STA 460+44 - STA 461+50
STA 476+10 - STA 477+50
STA 480+01 - STA 481+00
STA 486+62 - STA 487+70
STA 490+15 - STA 491+83
STA 493+35 - STA 495+10
STA 496+58 - STA 498+48

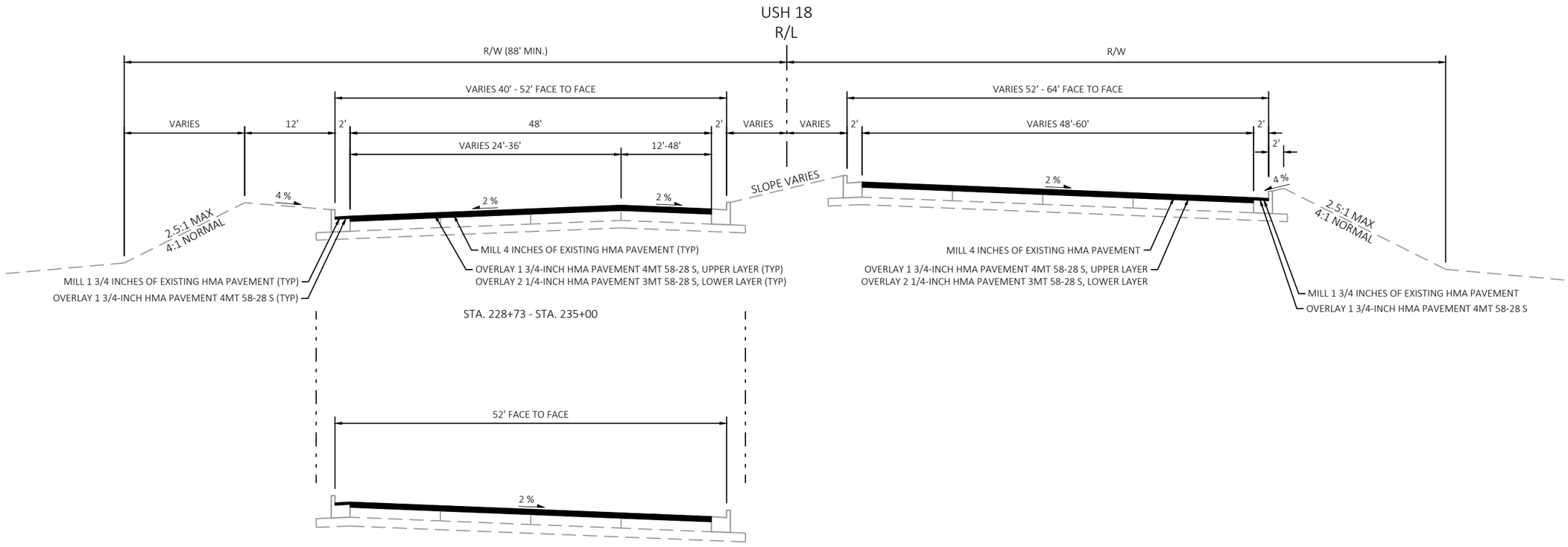
PROPOSED TYPICAL SECTION

USH 18
STA 407+00 - STA 415+50
STA 424+00 - STA 431+50
STA 440+00 - STA 463+50
STA 470+00 - STA 511+34



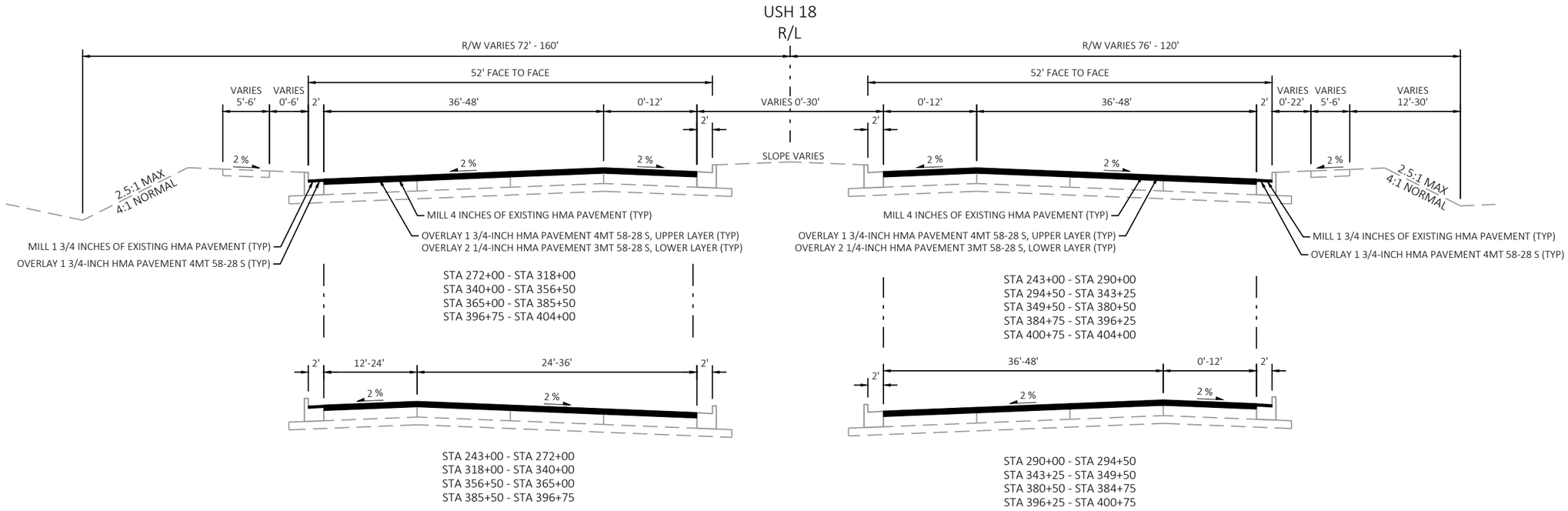
COMBINED EASTBOUND & WESTBOUND LEFT TURN LANE DETAIL

STA 410+35 - STA 410+90
STA 477+64 - STA 478+04
STA 412+90 - STA 414+70
STA 487+70 - STA 490+15
STA 499+39 - STA 500+86



PROPOSED TYPICAL SECTION

USH 18
STA. 228+88 - STA. 243+00



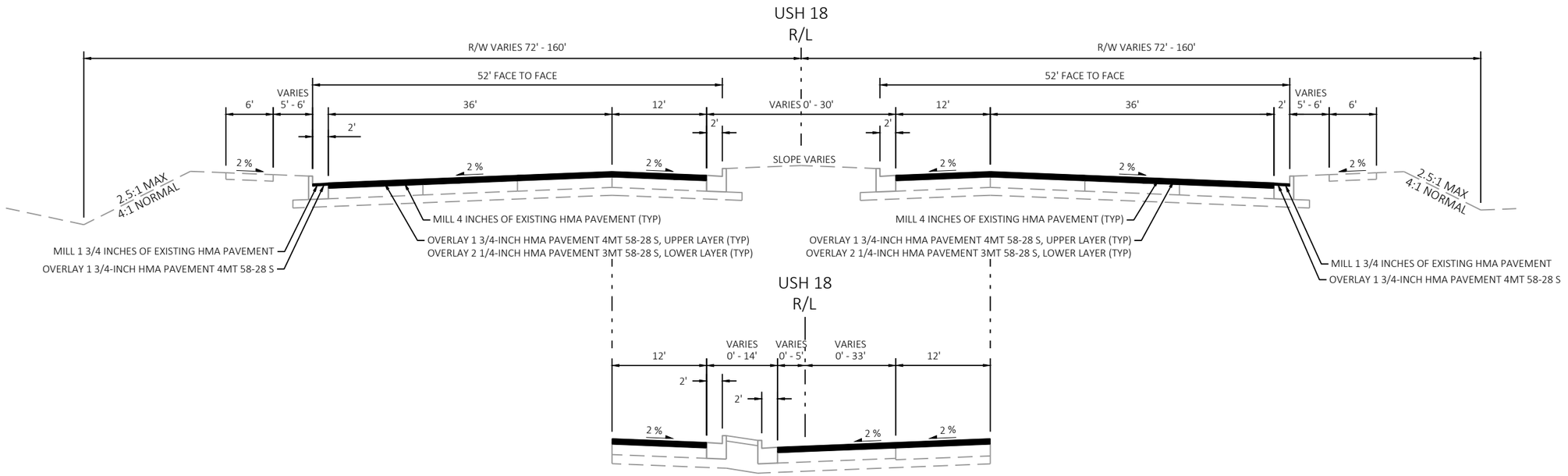
PROPOSED TYPICAL SECTION

USH 18
MAINLINE AND SIDEWALK DETAILS
STA 243+00 - STA 404+00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 21	E

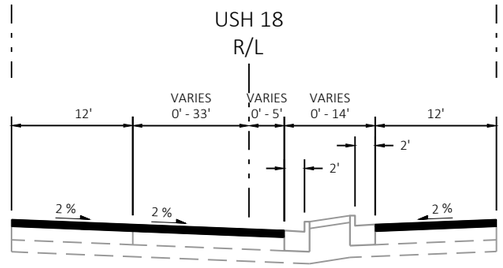
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LAYOUT NAME - 020312-ts
PLOT DATE : 1/25/2023 7:50 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:15 FT
WISDOT/CADDS SHEET 42

2



EASTBOUND

STA 257+42 - STA 259+77	STA 341+00 - STA 346+10
STA 280+31 - STA 282+89	STA 357+65 - STA 359+90
STA 307+01 - STA 309+46	STA 361+30 - STA 363+70
STA 316+86 - STA 319+20	STA 386+84 - STA 389+40
STA 333+62 - STA 336+04	



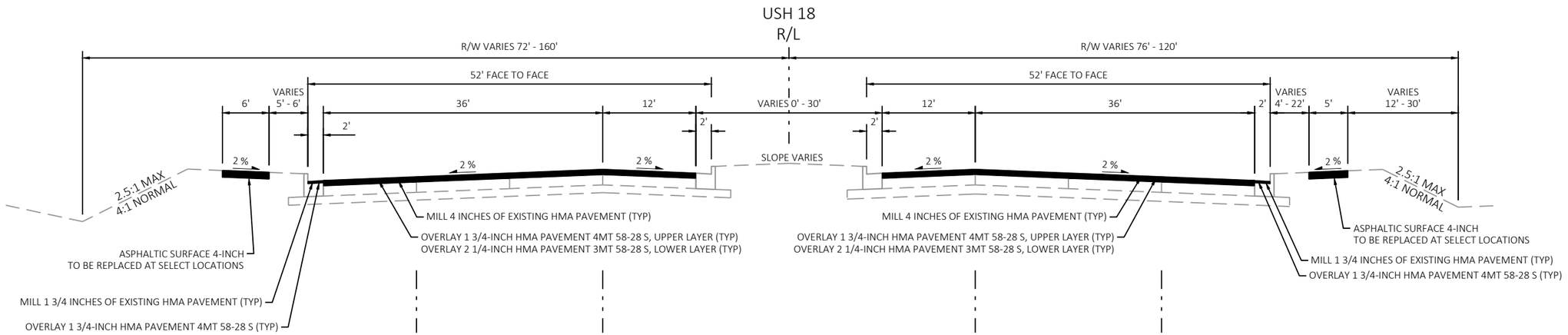
WESTBOUND

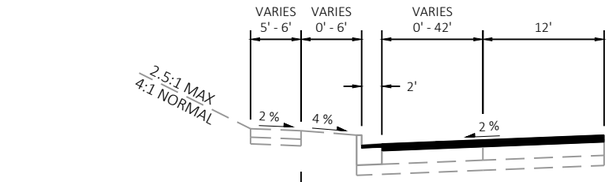
STA 265+30 - STA 267+64	STA 353+48 - STA 355+00
STA 273+38 - STA 275+77	STA 370+00 - STA 372+54
STA 333+49 - STA 335+92	STA 386+77 - STA 389+33

PROPOSED TYPICAL SECTION

USH 18
LEFT TURN LANE MEDIAN DETAILS
STA 243+00 - 404+00

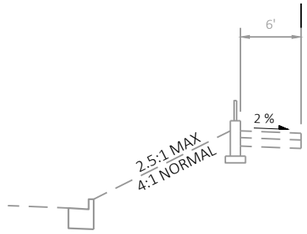
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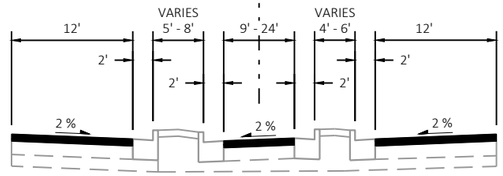


WIDENED RIGHT TURN DETAIL

STA 243+21 - STA 247+37
STA 269+94 - STA 271+16
STA 296+70 - STA 297+98
STA 323+30 - STA 324+35
STA 350+61 - STA 352+71
STA 366+82 - STA 368+90
STA 384+08 - STA 385+54
STA 391+17 - STA 395+62
**STA 404+87 - STA 410+09



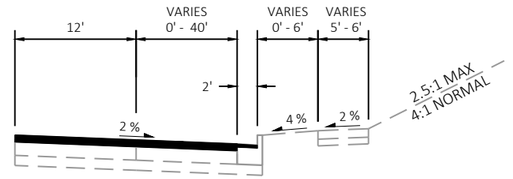
STA 405+40 - STA 406+20



SLOTTED LEFT TURN LANE AND MEDIAN DETAILS

STA 264+08 - STA 265+30 WB
STA 272+47 - STA 273+38 WB
STA 331+26 - STA 333+49 WB
STA 352+20 - STA 353+48 WB
STA 368+96 - STA 370+00 WB
STA 386+00 - STA 386+77 WB

STA 309+46 - STA 311+72 EB
STA 319+20 - STA 321+50 EB
STA 336+04 - STA 337+76 EB
STA 346+10 - STA 347+06 EB
STA 363+70 - STA 364+55 EB
STA 381+30 - STA 382+67 EB
STA 389+40 - STA 390+24 EB



WIDENED RIGHT TURN DETAIL

STA 238+00 - STA 242+11
STA 268+03 - STA 269+23
STA 294+67 - STA 295+80
STA 321+29 - STA 322+48
STA 345+82 - STA 348+60
STA 376+80 - STA 403+70

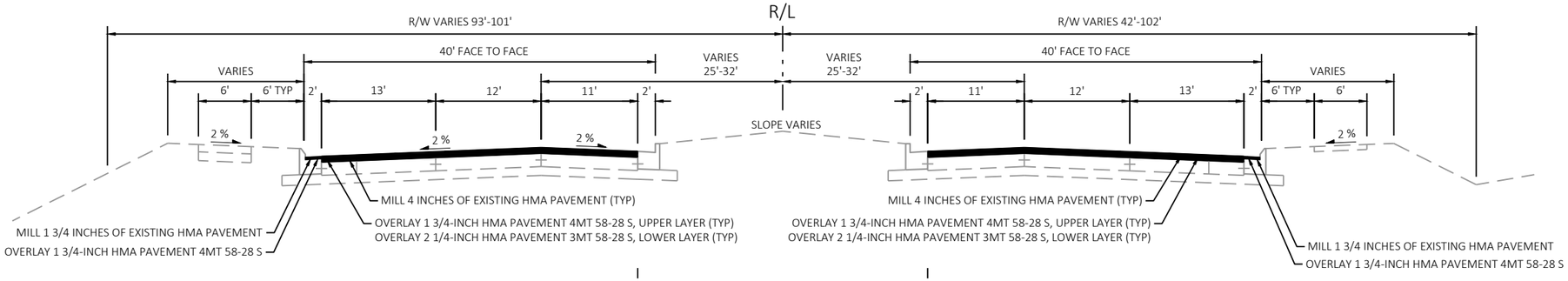
PROPOSED TYPICAL SECTION

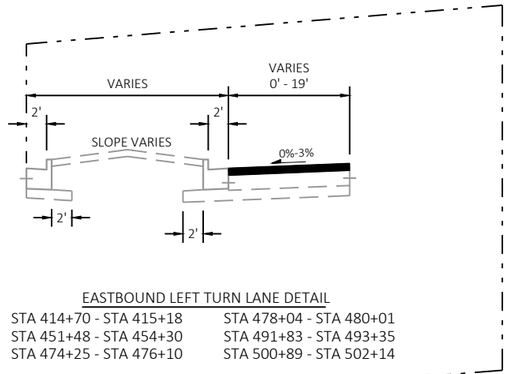
USH 18
SLOTTED LEFT TURN LANE AND WIDENED RIGHT TURN LANE DETAILS
STA 243+00 - STA 411+00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 23	E

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PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:15 FT
WISDOT/CADDS SHEET 42

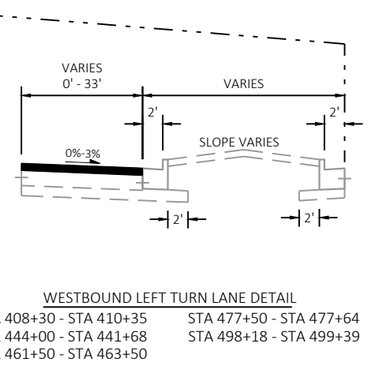
USH 18
R/L





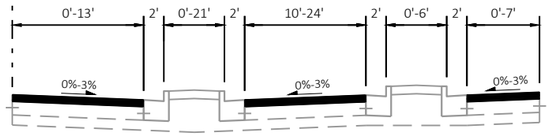
EASTBOUND LEFT TURN LANE DETAIL

STA 414+70 - STA 415+18
STA 451+48 - STA 454+30
STA 474+25 - STA 476+10
STA 478+04 - STA 480+01
STA 491+83 - STA 493+35
STA 500+89 - STA 502+14



WESTBOUND LEFT TURN LANE DETAIL

STA 408+30 - STA 410+35
STA 444+00 - STA 441+68
STA 461+50 - STA 463+50
STA 477+50 - STA 477+64
STA 498+18 - STA 499+39

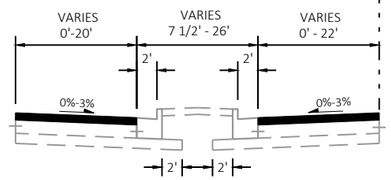


SLOTTED LEFT TURN LANE AND MEDIAN DETAIL

STA 407+00 - STA 408+30
STA 410+90 - STA 412+90
STA 454+30 - STA 456+00
STA 460+44 - STA 461+50
STA 476+10 - STA 477+50
STA 480+01 - STA 481+00
STA 486+62 - STA 487+70
STA 490+15 - STA 491+83
STA 493+35 - STA 495+10
STA 496+58 - STA 498+48

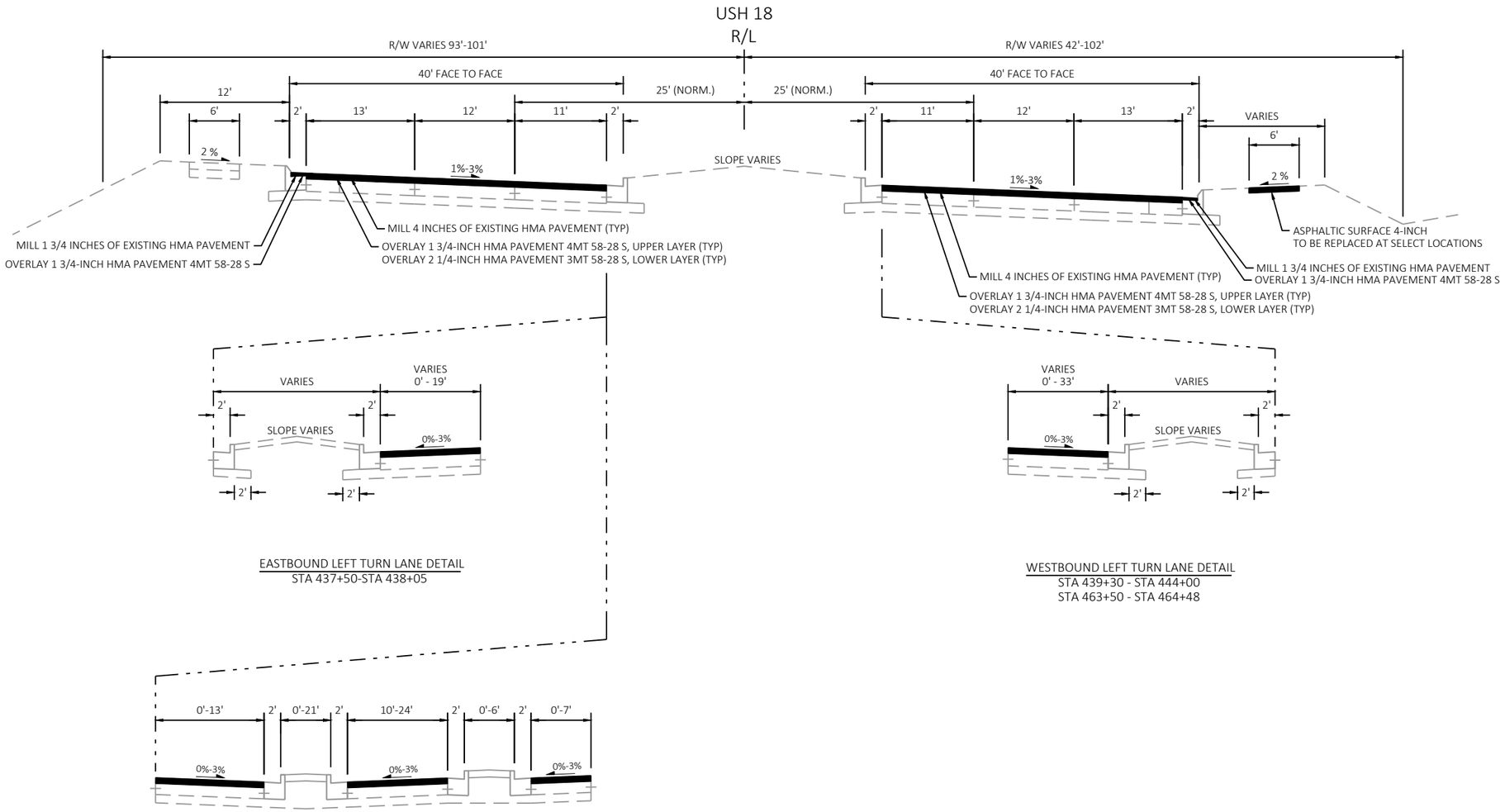
PROPOSED TYPICAL SECTION

USH 18
STA 407+00 - STA 415+50
STA 424+00 - STA 431+50
STA 440+00 - STA 463+50
STA 470+00 - STA 511+34



COMBINED EASTBOUND & WESTBOUND LEFT TURN LANE DETAIL

STA 410+35 - STA 410+90
STA 477+64 - STA 478+04
STA 412+90 - STA 414+70
STA 487+70 - STA 490+15
STA 499+39 - STA 500+86



EASTBOUND LEFT TURN LANE DETAIL
STA 437+50-STA 438+05

WESTBOUND LEFT TURN LANE DETAIL
STA 439+30 - STA 444+00
STA 463+50 - STA 464+48

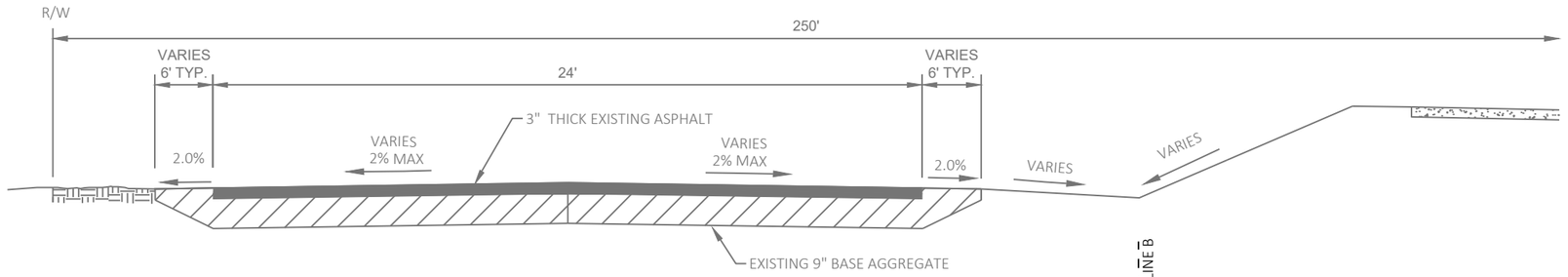
SLOTTED LEFT TURN LANE AND MEDIAN DETAIL
STA 438+08 - STA 439+30

PROPOSED TYPICAL SECTION

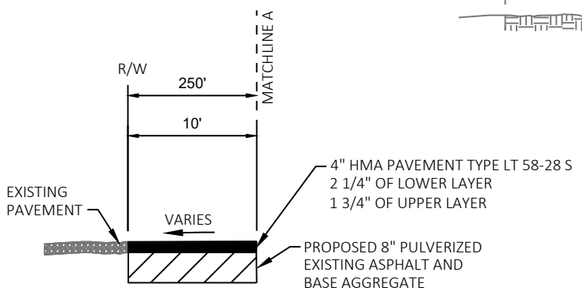
USH 18
STA 415+50 - STA 424+00
STA 431+50 - STA 437+50
STA 464+48 - STA 470+00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN: TYPICAL SECTIONS	SHEET 25	E

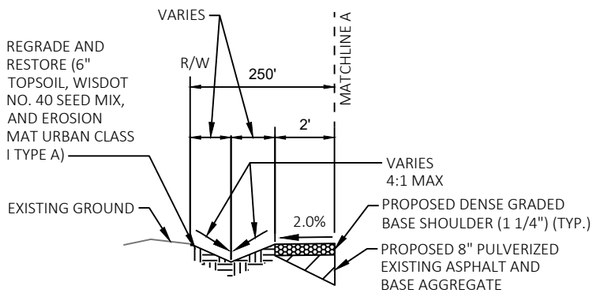
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PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:15 FT



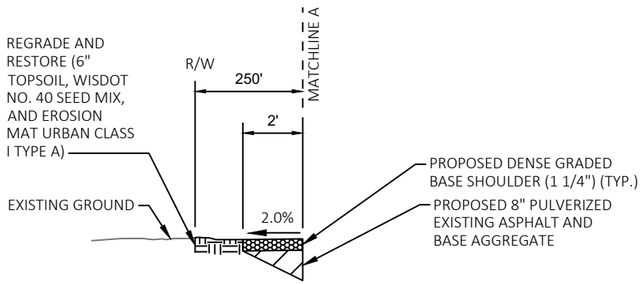
EXISTING TYPICAL FRONTAGE ROAD
(BLUEMOUND ROAD)



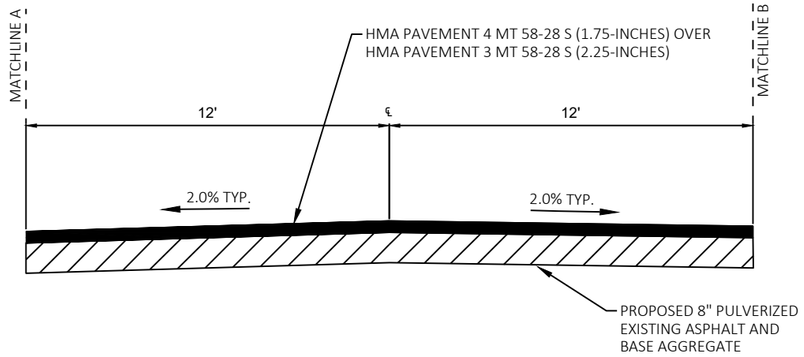
FINISHED TYPICAL SECTION - FRONTAGE ROAD
(BLUEMOUND ROAD)
STA 0+56 TO 2+50



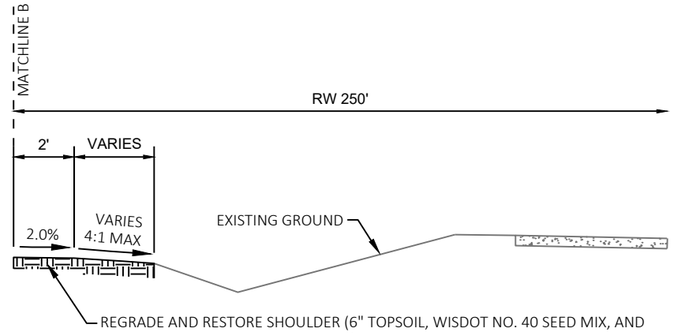
FINISHED TYPICAL SECTION - FRONTAGE ROAD
(BLUEMOUND ROAD)
STA 2+50 TO 3+50
STA 7+00 TO 8+73



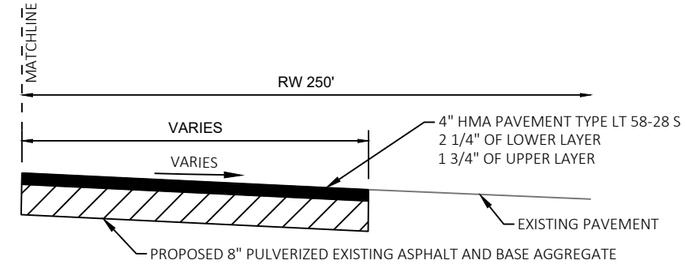
FINISHED TYPICAL SECTION - FRONTAGE ROAD
(BLUEMOUND ROAD)
STA 3+50 TO 7+00
STA 8+73 TO 10+13



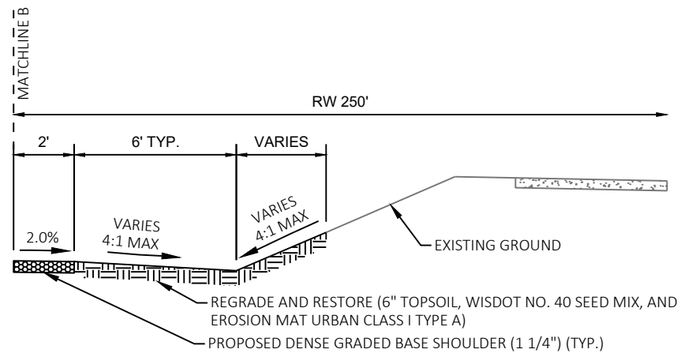
FINISHED TYPICAL SECTION - FRONTAGE ROAD (BLUEMOUND ROAD)
STA 0+56 TO 10+13



FINISHED TYPICAL SECTION - FRONTAGE ROAD (BLUEMOUND ROAD)
STA 0+56 TO 2+50

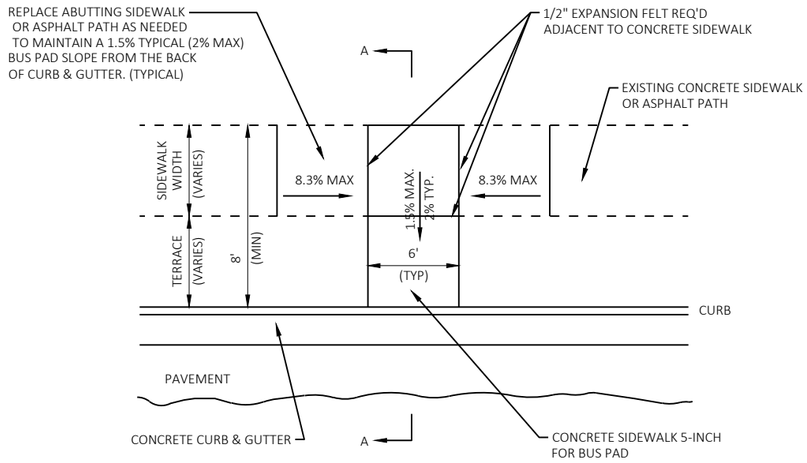


FINISHED TYPICAL SECTION - FRONTAGE ROAD (BLUEMOUND ROAD)
STA 2+50 TO 3+50



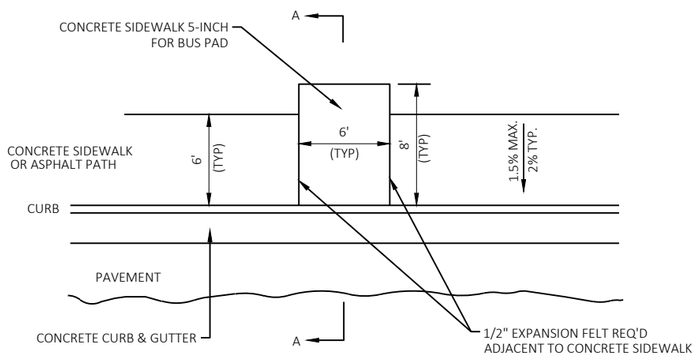
FINISHED TYPICAL SECTION - FRONTAGE ROAD (BLUEMOUND ROAD)
STA 3+50 TO 10+13

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 26	E

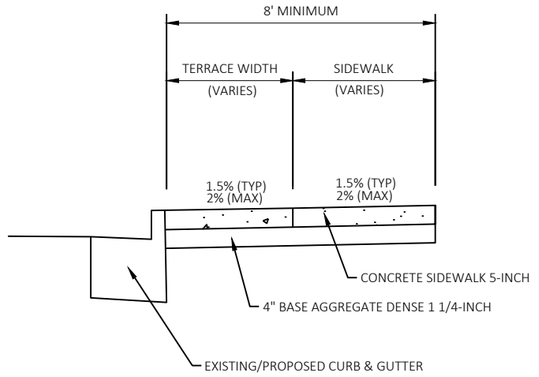


PLAN VIEW - SIDEWALK WITH TERRACE

NOTE: DEPRESS SIDEWALK AS NEEDED TO MAINTAIN
1.5% TYP (2% MAX) CROSS SLOPE IN TERRACE AREA.
SEE PLANS FOR ADDITIONAL DETAILS.

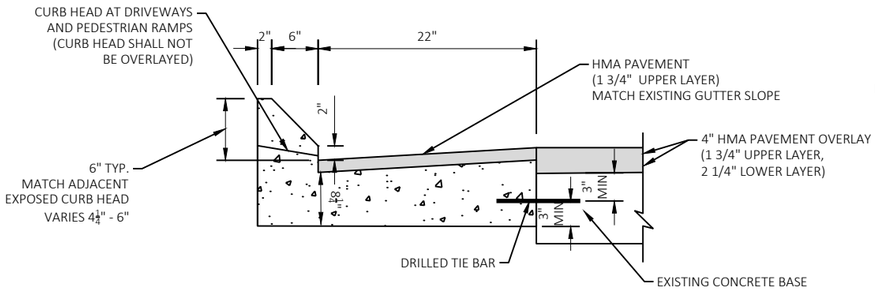


PLAN VIEW - SIDEWALK IMMEDIATELY BEHIND CURB & GUTTER



SECTION A - A

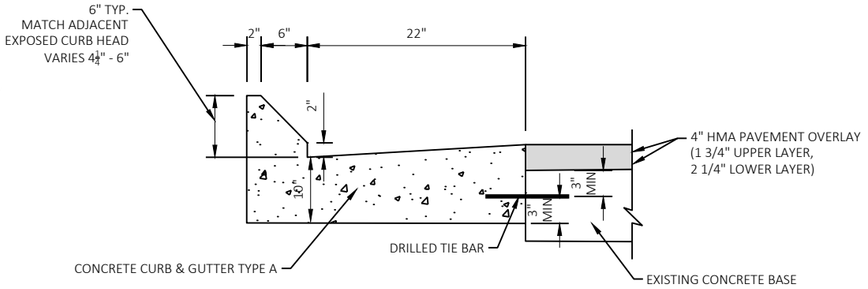
CONCRETE BUS PAD DETAIL



CONCRETE CURB & GUTTER 30-INCH TYPE G, SPECIAL

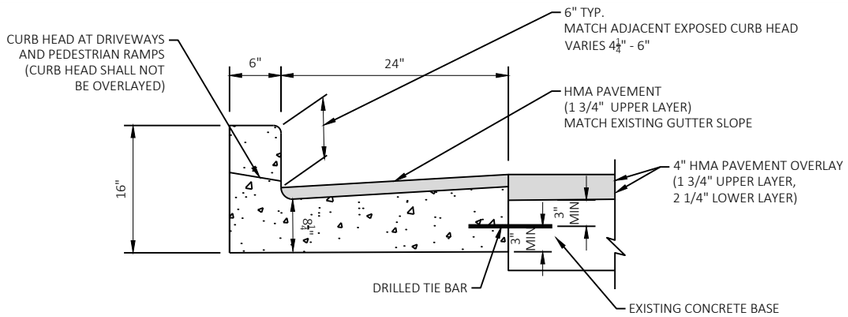
OVERLAID GUTTER PAN ON OUTSIDE OF ROADWAY

CONCRETE CURB & GUTTER 30-INCH TYPE G, SPECIAL SHALL BE PAID AS ITEM 601.0413
CONCRETE CURB & GUTTER 30-INCH TYPE G



NEW-CONCRETE CURB & GUTTER 30-INCH TYPE G

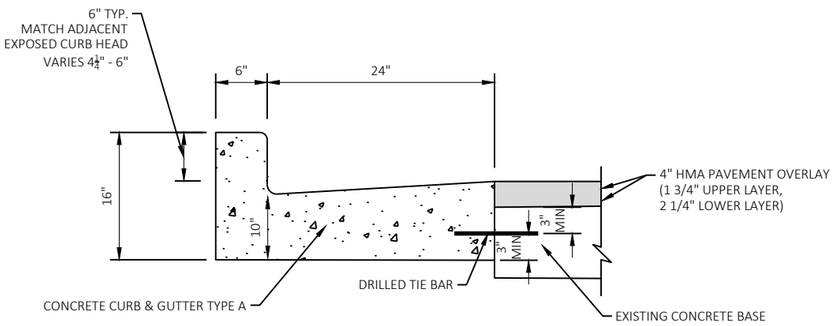
VARIABLE CURB HEAD AT CURB RAMPS



CONCRETE CURB & GUTTER 30-INCH TYPE A, SPECIAL

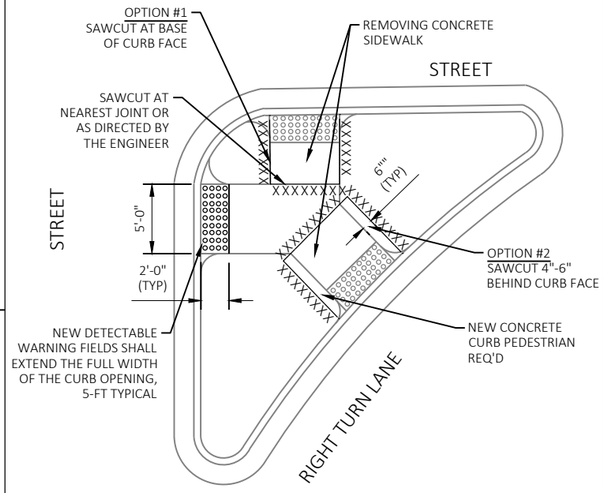
OVERLAID GUTTER PAN ON OUTSIDE OF ROADWAY

CONCRETE CURB & GUTTER 30-INCH TYPE A, SPECIAL SHALL BE PAID AS ITEM 601.0409
CONCRETE CURB & GUTTER 30-INCH TYPE A



NEW-CONCRETE CURB & GUTTER 30-INCH TYPE A

VARIABLE CURB HEAD AT CURB RAMPS



MEDIAN AND PORK CHOP ISLAND CONCRETE SIDEWALK REMOVAL OPTIONS

CURB RAMP REPLACEMENTS IN MEDIAN AND PORK CHOP ISLANDS SHALL BE REMOVED BY SAWING CONCRETE AT THE BASE OF THE CURB/SAFTEY ISLAND FACE.

ALTERNATIVELY, THE SAFETY ISLAND MAY BE SAWCUT 6" BEHIND THE VERTICAL FACE WITH APPROVAL FROM THE ENGINEER.

IF SAWCUT IS PLACED BEHIND THE VERTICAL FACE OF SAFETY ISLAND, A NEW VERTICAL FACE WILL BE PAID FOR AS CONCRETE CURB PEDESTRIAN.

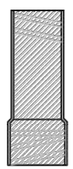


DROP LID

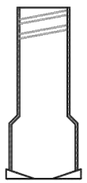
NOTES:
1. GATE VALVES REQUIRED FOR WATER MAINS 12" AND SMALLER.
2. 6 FT MINIMUM COVER REQUIRED OVER TOP OF WATER MAIN.
3. VALVE BOXES AND LID SHALL BE THREE PIECE CAST IRON. SEE PLANS AND/OR SPECIFICATION FOR SPECIFIC PRODUCT INFORMATION.
4. VALVE EXTENSION STEMS ARE NOT ALLOWED.
5. DOUBLE WRAP VALVE AND SINGLE WRAP VALVE BOX IN POLYETHYLENE WRAP.
6. GATE VALVES LOCATED AT A WATER PRESSURE ZONE BOUNDARY SHALL HAVE A LID LABELED "ZONE VALVE". CONTACT THE CITY WATER UTILITY FOR A "ZONE VALVE" LID IF NECESSARY.



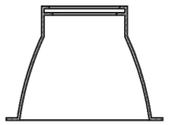
TOP



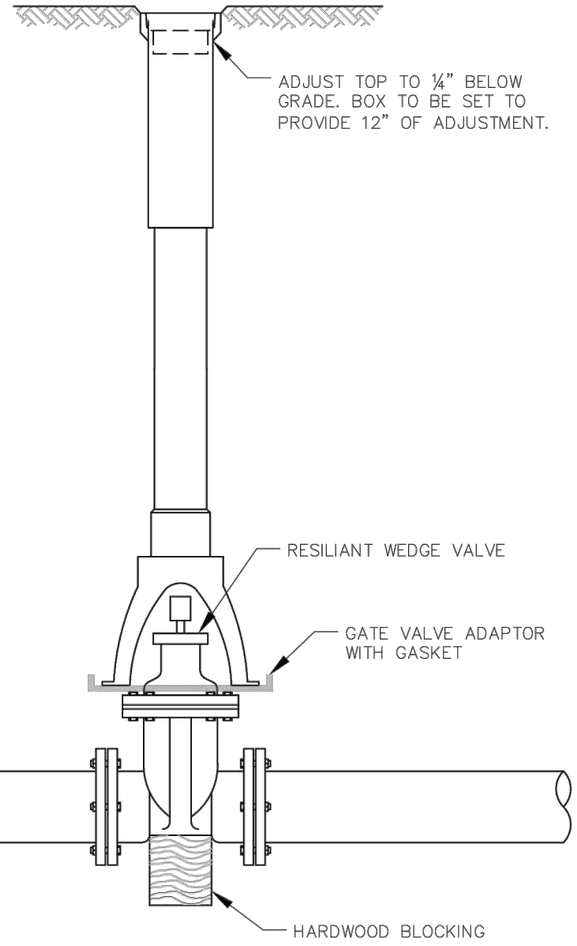
EXTENSION



BOTTOM



BASE

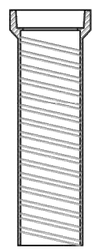


WATER GATE VALVE AND BOX

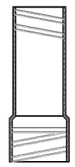


DROP LID

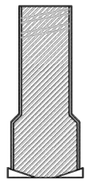
NOTES:
1. BUTTERFLY VALVE SHALL FACE ON THE NORTH OR EAST SIDE OF THE WATER MAIN.
2. BUTTERFLY VALVES REQUIRED FOR WATER MAINS 16" AND LARGER.
3. 6 FT MINIMUM COVER REQUIRED OVER THE TOP OF WATER MAIN.
4. VALVE BOXES AND LID SHALL BE THREE PIECE CAST IRON. SEE PLANS AND/OR SPECIFICATIONS FOR SPECIFIC PRODUCT INFORMATION.
5. VALVE EXTENSION STEMS ARE NOT ALLOWED.
6. DOUBLE WRAP VALVE AND SINGLE WRAP VALVE BOX IN POLYETHYLENE WRAP.
7. BUTTERFLY VALVES LOCATED AT A WATER PRESSURE ZONE BOUNDARY SHALL HAVE A LID LABELED "ZONE VALVE". CONTACT THE CITY WATER UTILITY FOR A "ZONE VALVE" LID IF NECESSARY.



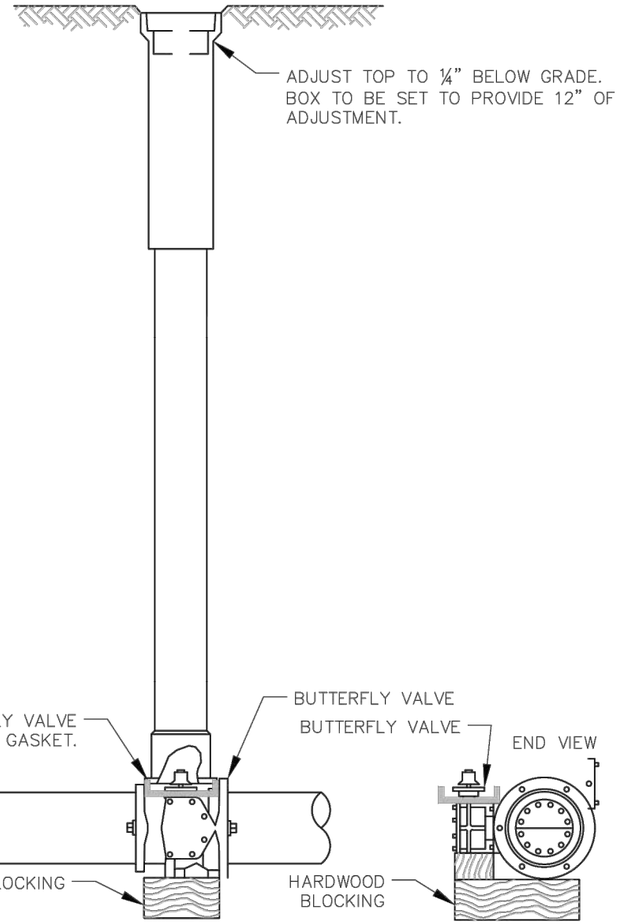
TOP



EXTENSION



BOTTOM



BUTTERFLY VALVE AND BOX

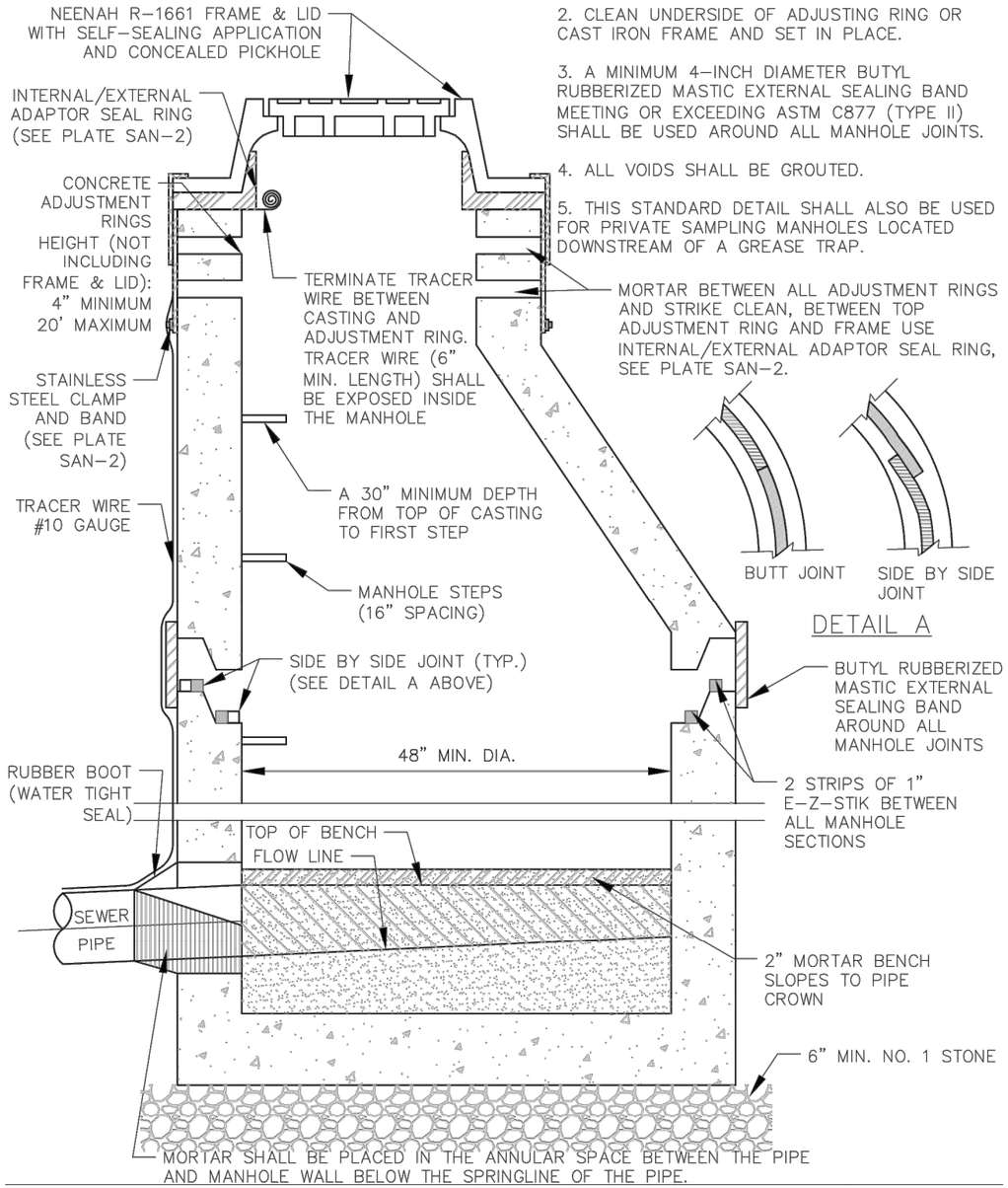
NOTES:
1. PLACE E–Z–STIK ON THE CLEANED LOWER SURFACE WITH ENDS ALIGNED HORIZONTALLY (SEE DETAIL ABOVE)

2. CLEAN UNDERSIDE OF ADJUSTING RING OR CAST IRON FRAME AND SET IN PLACE.

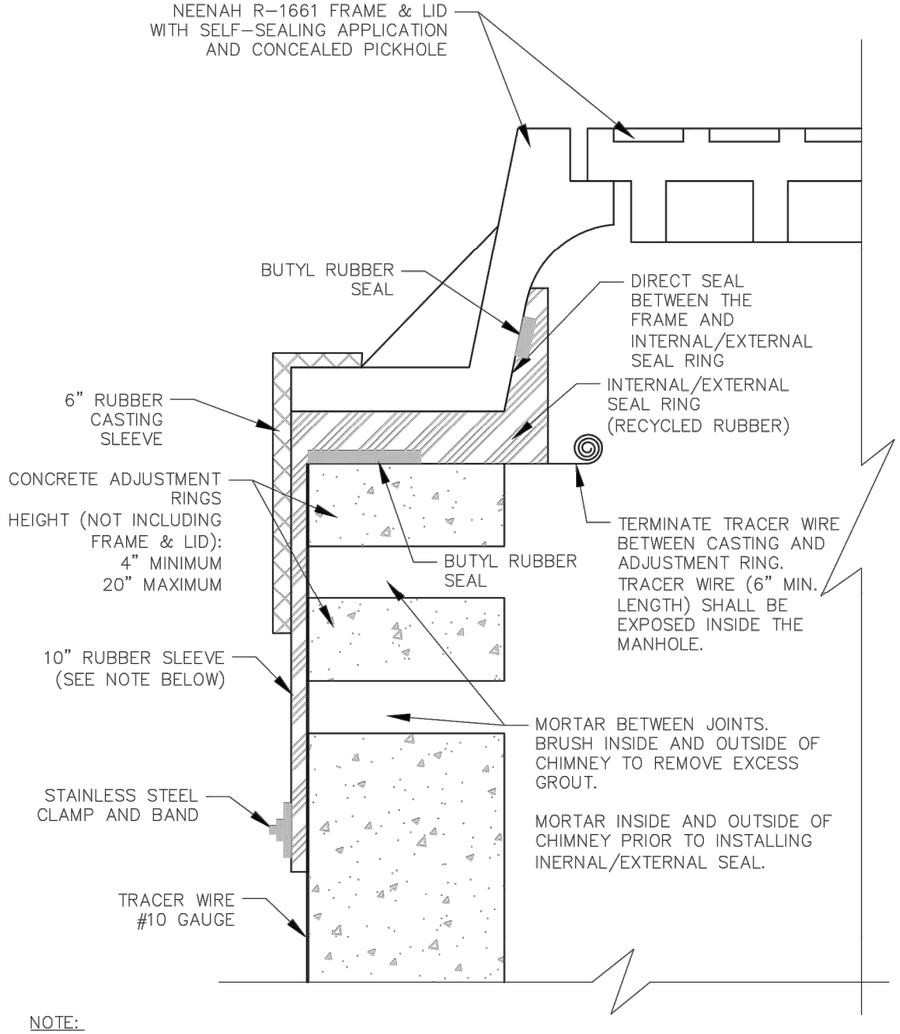
3. A MINIMUM 4–INCH DIAMETER BUTYL RUBBERIZED MASTIC EXTERNAL SEALING BAND MEETING OR EXCEEDING ASTM C877 (TYPE II) SHALL BE USED AROUND ALL MANHOLE JOINTS.

4. ALL VOIDS SHALL BE GROUTED.

5. THIS STANDARD DETAIL SHALL ALSO BE USED FOR PRIVATE SAMPLING MANHOLES LOCATED DOWNSTREAM OF A GREASE TRAP.



SANITARY MANHOLE



NOTE:
OPTIONAL 4", 6", 12", 16", 20", 22" RUBBER SLEEVE LENGTHS

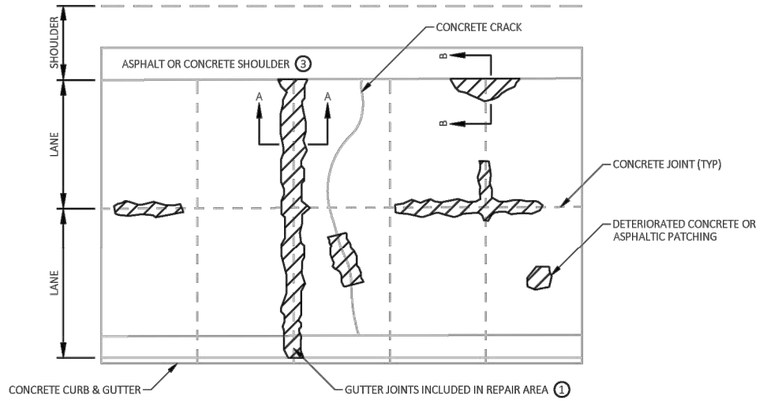
SANITARY MANHOLE SEALS

2

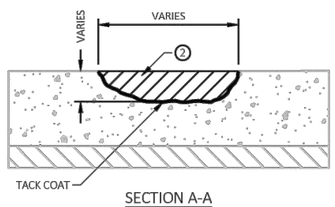
NOTES:

1. PERFORM CONCRETE JOINT AND CRACK CLEANING AND REPAIR IF ASPHALT OVERLAY WILL BE PLACED ON CONCRETE GUTTER
2. REMOVE UNSOUND AND DETERIORATED MATERIAL INCLUDING EXISTING ASPHALTIC PATCHING
3. EXISTING CONCRETE SHOULDER 5-FOOT OR LESS INCLUDED IN REPAIR AREA OF ADJACENT LANE

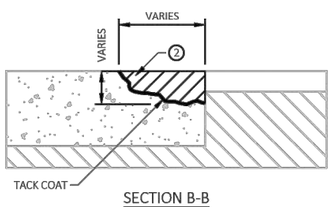
ASPHALTIC SURFACE
EXISTING CONCRETE PAVEMENT
EXISTING BASE COURSE



PLAN VIEW



SECTION A-A



SECTION B-B

CONCRETE JOINT AND CRACK CLEANING AND REPAIR

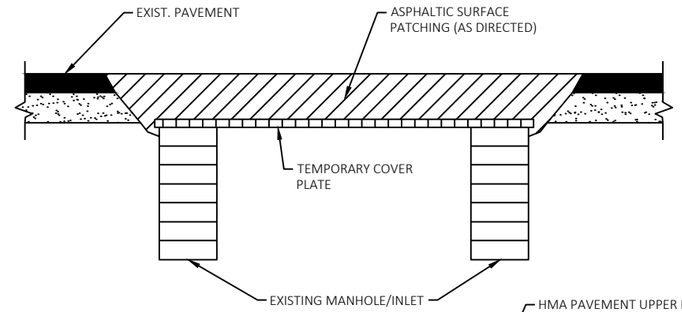
2

STEP 1

PRIOR TO REMOVING ASPHALTIC SURFACE

A. REMOVE AND STORE MANHOLE COVER
B. FURNISH AND INSTALL TEMPORARY COVER PLATE *
C. BACKFILL USING ASPHALT SURFACE, PATCHING. *

* TO BE PAID FOR UNDER CONTRACTOR ITEMS

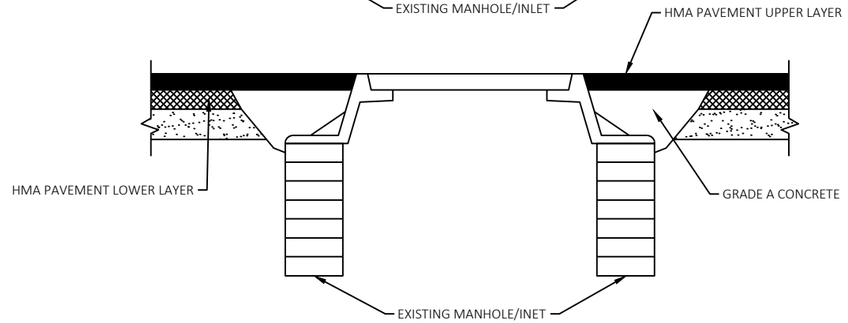


STEP 2

AFTER PAVING LOWER LAYER

A. EXCAVATE AND REMOVE TEMPORARY COVER PLATE
B. ADJUST MANHOLE AND REINSTALL MANHOLE FRAME AND COVER TO FINISHED GRADE

(BACKFILL AND OTHER WORK TO BE DONE IN ACCORDANCE WITH ITEM - ADJUSTING MANHOLE COVERS)



COVER PLATES, TEMPORARY

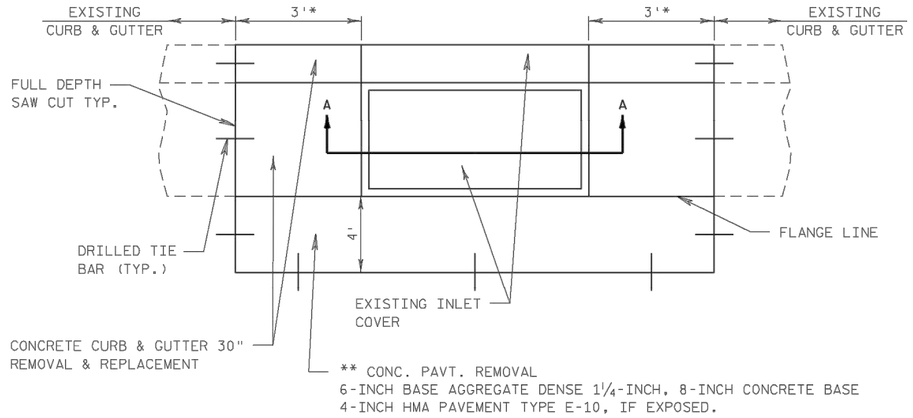
A. DESCRIPTION
THIS WORK CONSISTS OF FURNISHING, INSTALLING AND REMOVING A STEEL PLATE TO COVER AND SUPPORT BACKFILL AND TRAFFIC LOADING AT MANHOLES.

B. MATERIALS
MATERIAL FURNISHED AND USED IN THE WORK SHALL BE 1/4-INCH MINIMUM THICKNESS STEEL PLATE THAT EXTENDS AT LEAST TO THE OUTSIDE EDGE OF EXISTING MANHOLE MASONRY.

C. METHOD OF MEASUREMENT AND BASIS OF PAYMENT
TEMPORARY COVER PLATES WILL BE MEASURED SEPARATELY AS UNITS AND WILL BE PAID FOR AT CONTRACT UNIT PRICE EACH, WHICH PRICE SHALL BE FULL COMPENSATION FOR FURNISHING. INSTALLING AND REMOVING THE COVER PLATES: AND FOR ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTAL NECESSARY TO COMPLETE THE WORK. THE STEEL PLATES SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED IN THE CONTRACT WORK.

ADJUSTING MAHOLE/INLET COVERS

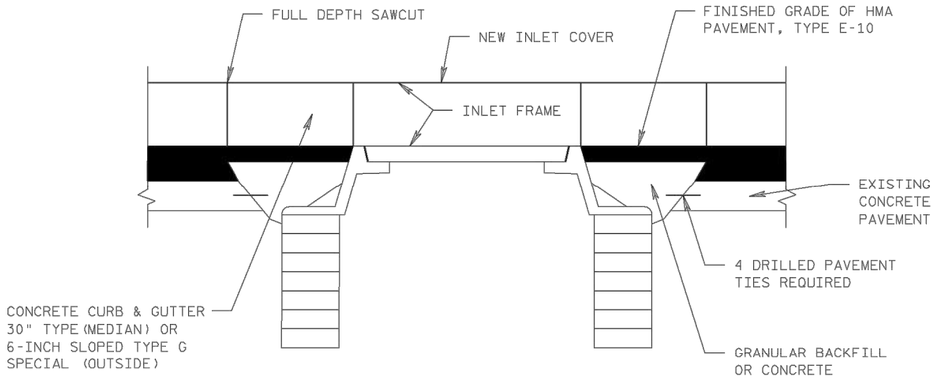
USE COVER PLATES IN DAYTIME LIVE TRAFFIC LANES



PLAN VIEW

* REMOVE 3' CURB & GUTTER MIN.
OR TO THE NEAREST JOINT 6' MAX.
UNLESS OTHERWISE DIRECTED

** PAVEMENT REMOVAL & REPLACEMENT IS
INCIDENTAL TO ADJUSTING INLETS OR
MANHOLES AND RECONSTRUCTING INLETS
OR MANHOLES.



SECTION A-A

GENERAL DRAINAGE STRUCTURE NOTES

1.) WHEN NEW COVERS ARE PLACED, THE FIRST 6" OF ADJUSTMENT OR REPAIRING SHALL BE INCIDENTAL TO THE COST OF THE NEW COVER. ANY ADJUSTMENT OR REPAIR OF BRICKWORK BETWEEN 6" AND 12" WILL BE PAID AS ADJUSTING COVERS. REPAIRS GREATER THAN 12" WILL BE PAID AS RECONSTRUCTING INLETS OR MANHOLES.

2.) WHEN A NEW INLET COVER IS SPECIFIED, BOTH THE FRAME AND GRATE ARE INCLUDED.

3.) THE CURB BOX OPENING SHALL BE SEALED BEFORE POURING CONCRETE CURB TO PREVENT CONCRETE FROM ENTERING STRUCTURE.

4.) SAWING OF EXISTING CURB AND GUTTER AND PAVEMENT SHALL BE PAID FOR AS "SAWING CONCRETE."

5.) LOCATIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

INLET DETAIL

2

2

LEGEND

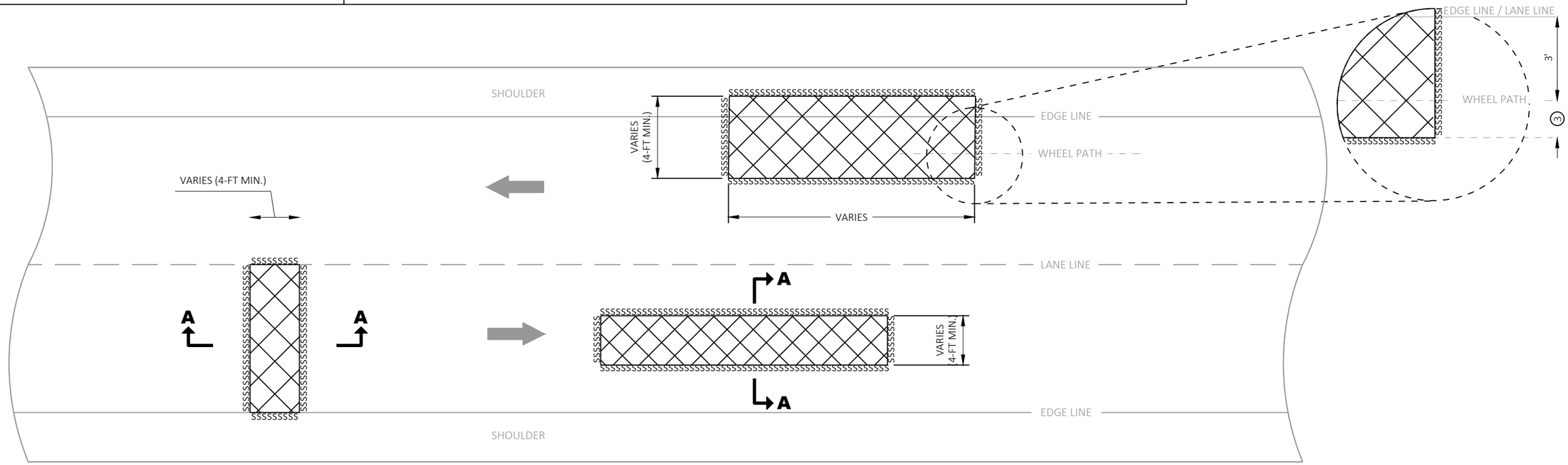
ASPHALTIC REPAIR

ssssss VERTICAL MILLED EDGE
SAW CUTTING AT THE CONTRACTORS DISCRETION

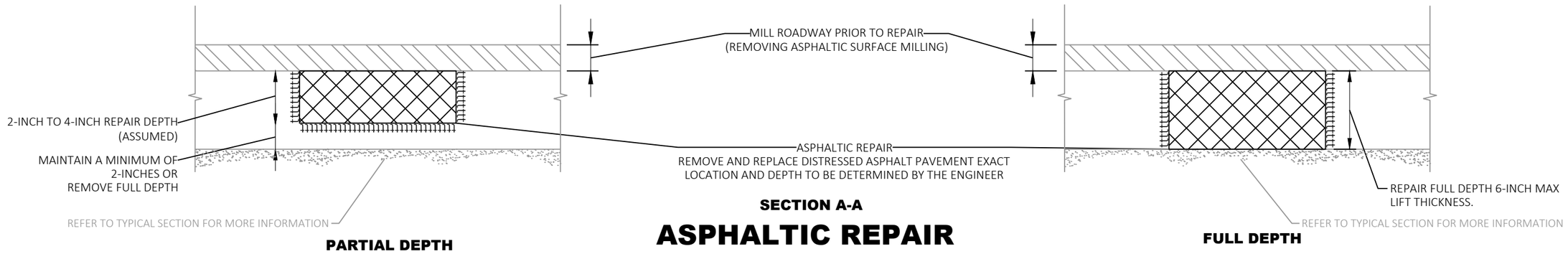
ttttttt TACK COAT

GENERAL NOTES

1. EXACT LOCATION, DEPTH AND SIZE OF REPAIR TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. MILL PAVEMENT PER PLAN PRIOR TO MAKING ASPHALTIC REPAIR.
3. LOCATE LONGITUDINAL REPAIR JOINTS OUTSIDE OF WHEEL PATH. 12-INCH MINIMUM (24-INCH RECOMMENDED) FROM THE CENTER OF THE WHEEL PATH.
4. ASPHALTIC REPAIR PAVING TO BE DONE ON THE SAME DAY AS REMOVAL.



PLAN VIEW

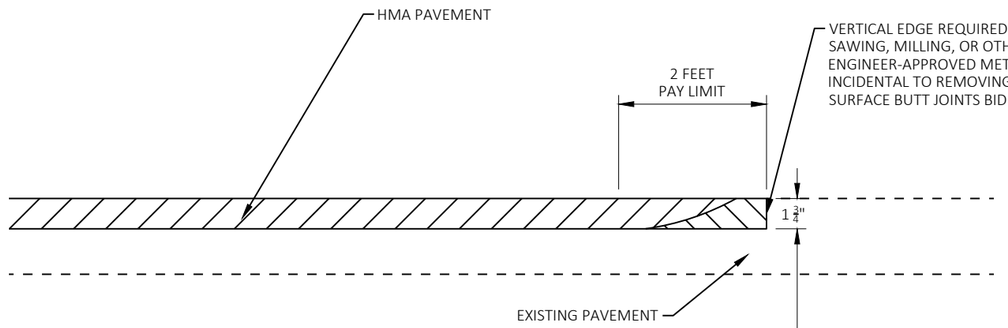


SECTION A-A

PARTIAL DEPTH **FULL DEPTH**

ASPHALTIC REPAIR

2



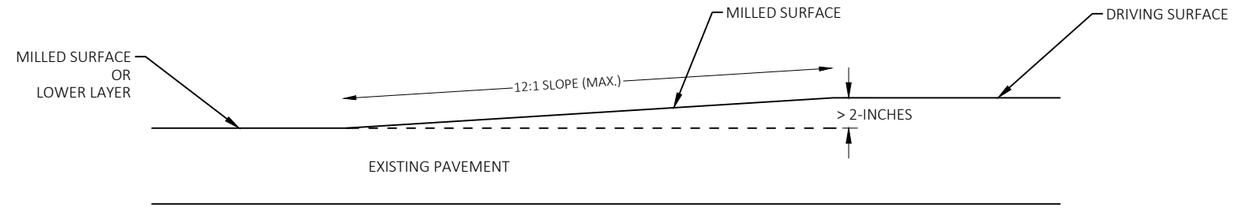
REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALTIC SURFACE BUTT JOINT'

REMOVING ASPHALTIC SURFACE MILLING

NOTE: SAWCUT NOT REQUIRED AND INCIDENTAL TO REMOVING ASPHALTIC SURFACE BUTT JOINT IF USED.

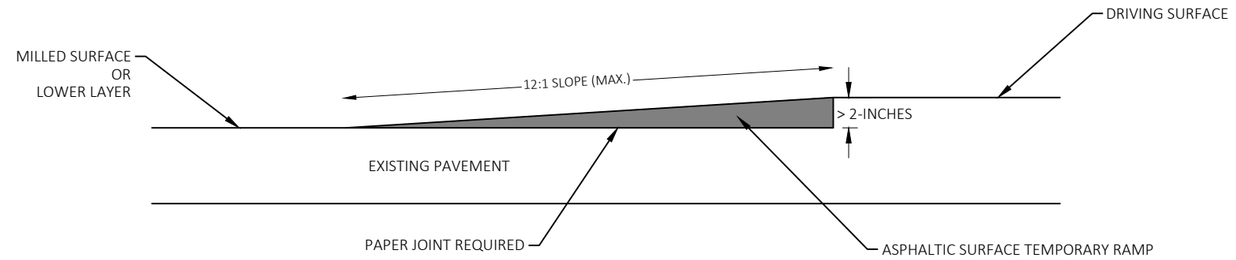
BUTT JOINT - NO CHANGE IN PROFILE

2



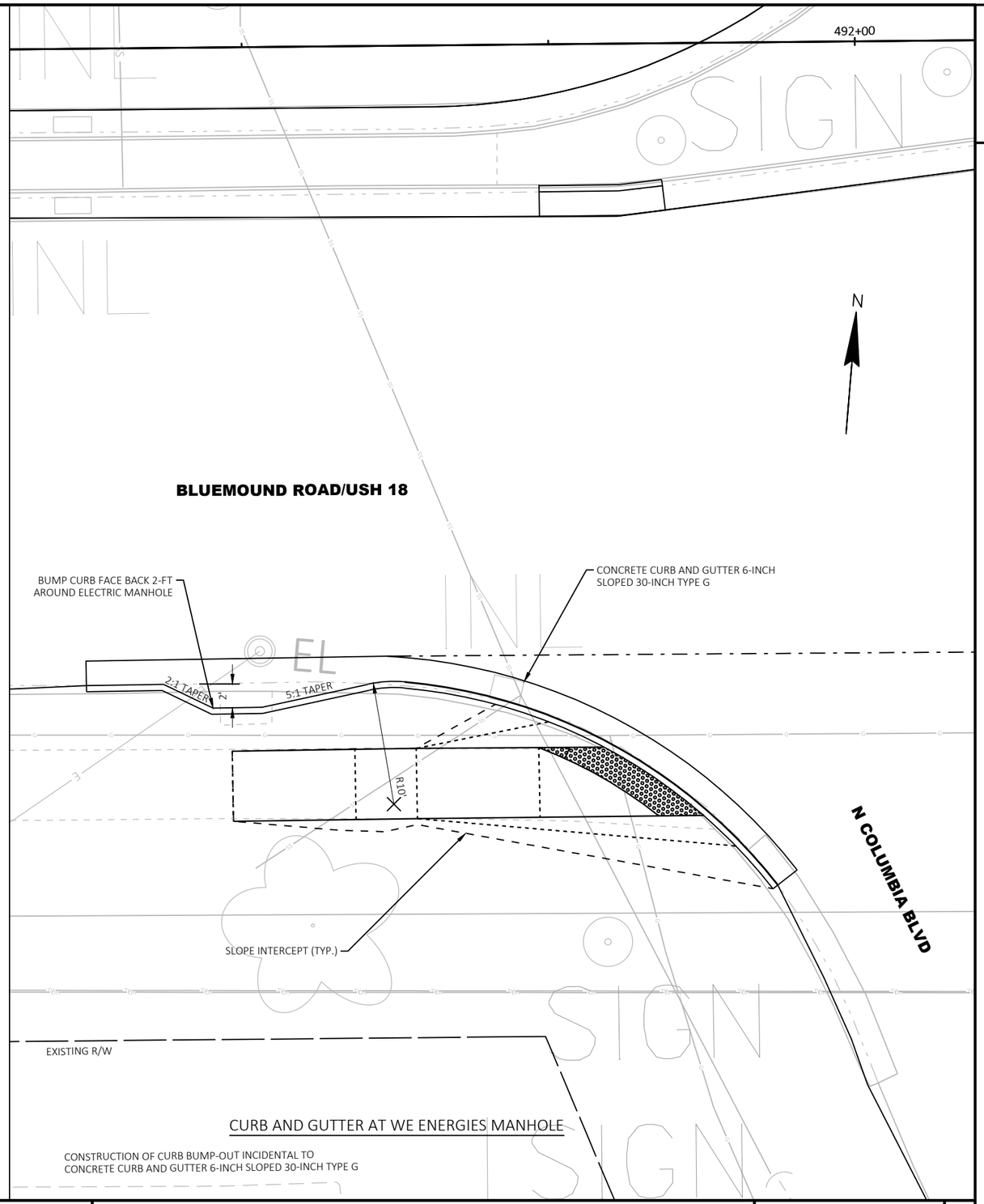
MILLED RAMP

NOTES:
- THESE CONSTRUCTION DETAILS AND THE SPECIAL PROVISIONS SUPPLEMENT THE REQUIREMENTS FOR PROVIDING DROP-OFF PROTECTION AS STATED IN STANDARD SPECIFICATION 104.6.1.2.3.
- ASPHALTIC SURFACE TEMPORARY RAMP PAID FOR AS 'ASPHALTIC SURFACE TEMPORARY'
- INSTALLATION, REMOVAL, AND DISPOSAL OF RAMP IS INCIDENTAL TO ASPHALTIC SURFACE TEMPORARY BID ITEM.

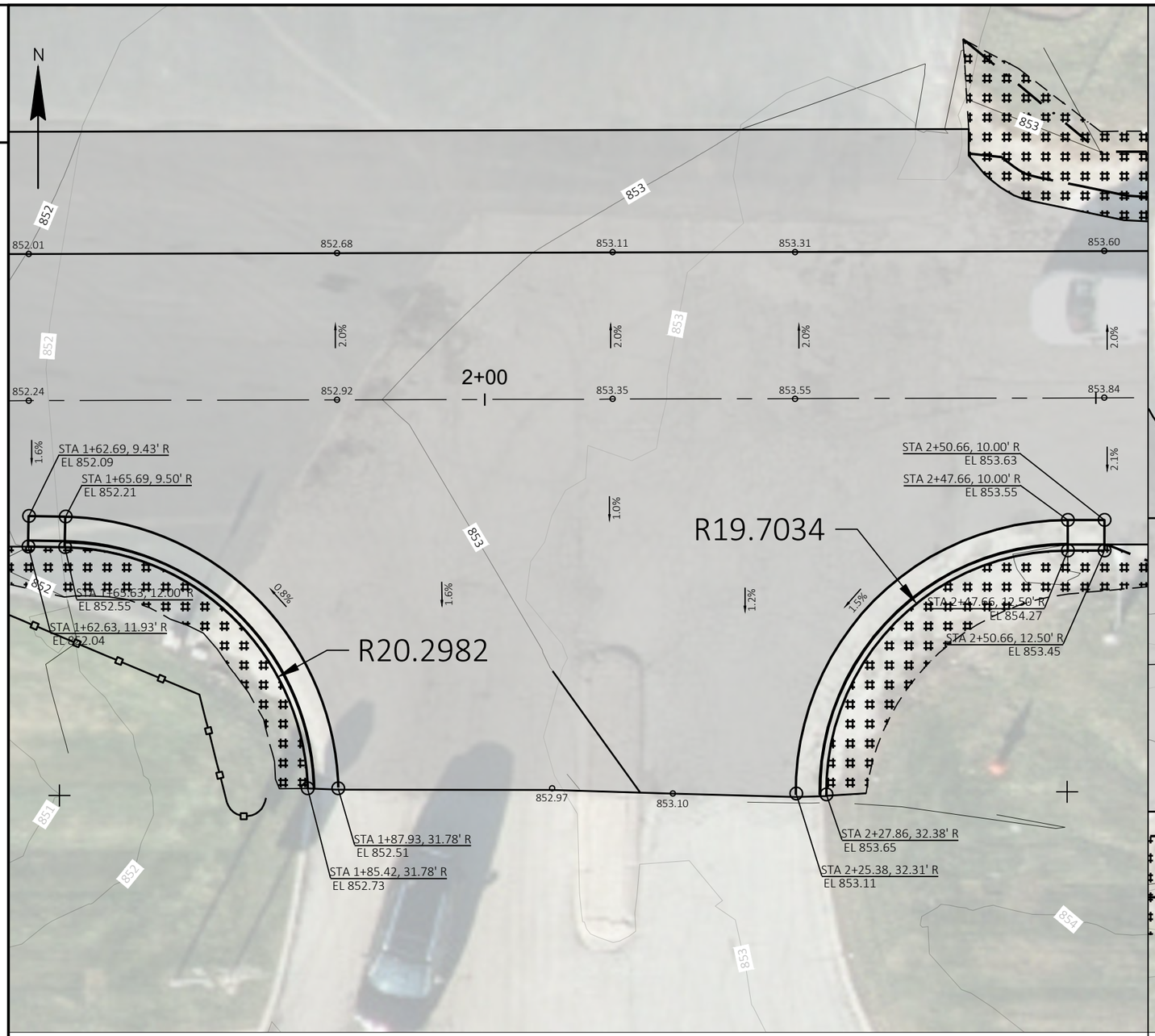


ASPHALTIC SURFACE TEMPORARY RAMP

2



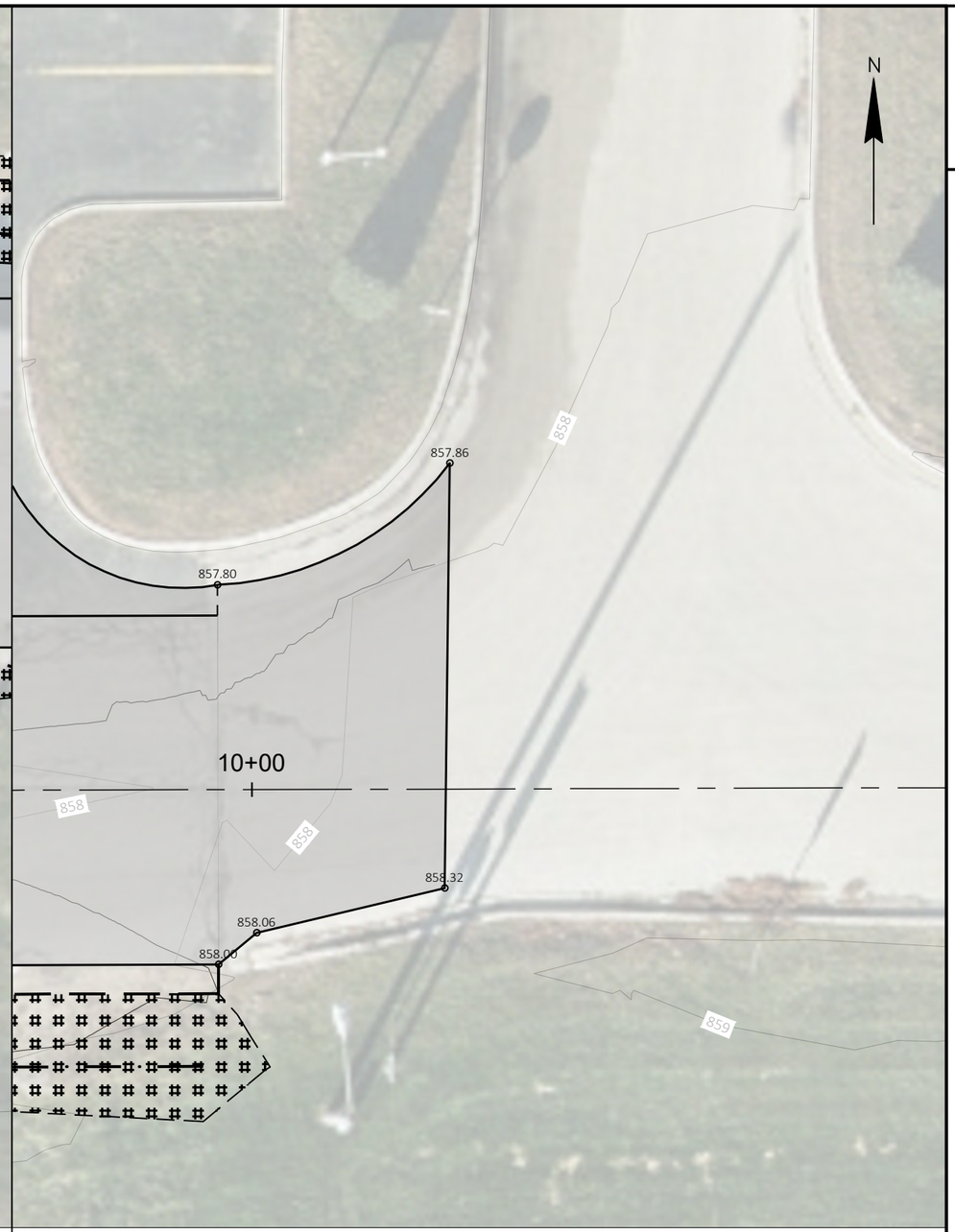
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CONSTRUCTION DETAILS	SHEET 36	E



A/3 FRONTAGE ROAD INTERSECTION DETAIL

SCALE: 1"=10'

0 5' 10' 20'



B/3 FRONTAGE ROAD INTERSECTION DETAIL

SCALE: 1"=10'

0 5' 10' 20'

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CONSTRUCTION DETAILS	SHEET 37	E

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\021001-CD.DWG
LAYOUT NAME - 021001-cd

PLOT DATE : 1/30/2023 9:37 AM PLOT BY : DECENT, ZACH PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

2

BEGIN PROJECT
STA 228+88
MATCH EXISTING
SAW CUT REQ'D

DELINEATORS FLEXIBLE (TYP.)

BLUEMOUND ROAD/USH 18

227+00 228+00 229+00 230+00 231+00 232+00 233+00

PAV 1

30-A

MATCHLINE STA 233+50

BEGIN CONSTRUCTION
STA 229+42
MATCH EXISTING
SAW CUT REQ'D

IH 94

LEGEND

	BASE PATCHING CONCRETE
	BASE PATCHING CONCRETE SHES
	ASPHALTIC REPAIR
	REMOVE & REPLACE CONCRETE CURB & GUTTER
XXXXXXXXX	SAWING CONCRETE/ASPHALT
	EXISTING RIGHT OF WAY
	TEMPORARY LIMITED EASEMENT
X	CURB RAMP TYPE X*
XM	CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

30-A	CURB & GUTTER 30-INCH TYPE A
30-AS	CURB & GUTTER 30-INCH TYPE A, SPECIAL
30-G	CURB & GUTTER 6" SLOPED 30" TYPE G
30-GS	CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
SW5	CONCRETE SIDEWALK 5-INCH
AS4	ASPHALTIC SURFACE 4-INCH
SN-X	CONCRETE MEDIAN SLOPED NOSE - TYPE X
PAV 1	4" MILL & 4" HMA OVERLAY
PAV 2	2" MILL & 2" HMA OVERLAY
0-0	STORM SEWER STRUCTURE NUMBER
X	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 38	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-pd

PLOT DATE : 3/14/2023 11:16 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

CTH JJ

BLUEMOUND ROAD/USH 18

EXISTING R/W

+66.51
-149.43'LT

SIGNAL MAINTENANCE PARKING PAD

+85.79
-130.75'LT

40'

12'

+98.10
-93.13'LT

SLOPE INTERCEPT

+91.07
-78.02'LT

+36.83
-116.24'LT

SW5

SW5

30-A

30-AS

PAV 1

PC: 234+69.10

MATCHLINE STA 233+50

MATCHLINE STA 240+50

234+00

235+00

236+00

237+00

238+00

239+00

240+00

STA 236+50, 74' RT
TUCK POINT

2-1

30-AS

30-A

+74.02
125.79'RT

RIPRAP

IBERM

LEGEND

	BASE PATCHING CONCRETE
	BASE PATCHING CONCRETE SHES
	ASPHALTIC REPAIR
	REMOVE & REPLACE CONCRETE CURB & GUTTER
XXXXXXXXX	SAWING CONCRETE/ASPHALT
	EXISTING RIGHT OF WAY
	TEMPORARY LIMITED EASEMENT
X	CURB RAMP TYPE X*
XM	CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

30-A	CURB & GUTTER 30-INCH TYPE A
30-AS	CURB & GUTTER 30-INCH TYPE A, SPECIAL
30-G	CURB & GUTTER 6" SLOPED 30" TYPE G
30-GS	CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
SW5	CONCRETE SIDEWALK 5-INCH
AS4	ASPHALTIC SURFACE 4-INCH
SN-X	CONCRETE MEDIAN SLOPED NOSE - TYPE X
PAV 1	4" MILL & 4" HMA OVERLAY
PAV 2	2" MILL & 2" HMA OVERLAY
0-0	STORM SEWER STRUCTURE NUMBER
X	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 39	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021202-pd

PLOT DATE : 3/14/2023 11:17 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

BLUEMOUND ROAD/USH 18

N BARKER RD

MATCHLINE STA 240+50

MATCHLINE STA 247+50

241+00 242+00 243+00 244+00 245+00 246+00 247+00

50+00 49+00 48+00 51+00 52+00

END CONSTRUCTION
STA 51+39

SLOPE INTERCEPT (TYP.)

SIGNAL MAINTENANCE PARKING PAD

SLOPE INTERCEPT (TYP.)

EXISTING R/W

PT: 240+85.72

STA 244+97, 13' LT
ADJUSTING INLET COVER, TUCK POINT

STA 244+97, 6' LT
RECONSTRUCTING INLET

END CONSTRUCTION
STA 47+74

PAV 1

SW5 30-A 1M 6 5 4B1 3-1 3-2 SN-1

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 40	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021203-pd

PLOT DATE : 3/14/2023 11:17 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

POPLAR CREEK PKWY

BLUEMOUND ROAD/USH 18

EXISTING R/W

PAV 1

MATCHLINE STA 247+50

MATCHLINE STA 254+50

248+00 249+00 250+00 251+00 252+00 253+00 254+00

STA 252+45, 63' LT
INLET COVER H
4-2

STA 249+99, 74' RT
TUCK POINT
4-1

7A
30-A
30-AS
SW5
2

SLOPE INTERCEPT (TYP.)

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 41	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021204-pd

PLOT DATE : 3/14/2023 11:17 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

BLUEMOUND ROAD/USH 18

EXISTING R/W

EXISTING R/W

MATCHLINE STA 254+50

MATCHLINE STA 261+50

255+00 256+00 257+00 258+00 259+00 260+00 261+00

30-AS 5-1 STA 256+25, 63' LT TUCK POINT

PAV 1

STA 258+50, 63' LT TUCK POINT 5-2 30-AS

STA 260+50, 63' LT RECONSTRUCTING INLET 5-3 30-AS

4B1 TLE 30-A

30-AS 5-4 STA 256+25, 64' RT RECONSTRUCTING INLET

PAV 1

STA 258+51, 63' RT TUCK POINT 30-AS 5-5

STA 259+42, 63' RT ADJUSTING INLET COVER 30-AS 5-6

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 42	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021205-pd

PLOT DATE : 3/14/2023 11:18 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

ELIZABETH COURT

+65.55
-104.66'LT

SLOPE INTERCEPT (TYP.)

TLE

4B1

30-A

EXISTING R/W

STA 264+81, 63' LT
TUCK POINT
6-3
30-AS

STA 267+75, 63' LT
TUCK POINT
6-4
30-AS

PAV 1

BLUEMOUND ROAD/USH 18

STA 262+50, 13' LT
RECONSTRUCTING INLET
6-1
30-A

STA 267+74, 13' LT
RECONSTRUCTING INLET
6-5
30-A

262+00 263+00 264+00 265+00 266+00 267+00 268+00

MATCHLINE STA 261+50

MATCHLINE STA 268+50

PAV 1

STA 264+28, 63' RT
TUCK POINT
6-2
30-AS

30-AS

STA 267+75, 63' RT
TUCK POINT
6-6
30-AS

EXISTING R/W

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 43	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021206-pd

PLOT DATE : 3/14/2023 11:18 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

52+00

51+00

50+00

49+00

48+00

N JANACEK RD

BLUEMOUND ROAD/USH 18

END CONSTRUCTION
STA 51+75

EXISTING R/W

PAV 1

SW5
3M
30-A
6

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK

SN-2
5

STA 272+00, 63' LT
RECONSTRUCTING INLET
7-2
30-AS

STA 272+00, 6' RT
TUCK POINT, CLEAN SS STRUCTURE
7-3

STA 270+64, 64' RT
INLET COVER TYPE H, NEW FLAT SLAB TOP REQ'D (RECONSTRUCTING INLET)
7-1

STA 274+42, 63' RT
TUCK POINT
7-4

SLOPE INTERCEPT (TYP.)

END CONSTRUCTION
STA 48+32

MATCHLINE STA 268+50

MATCHLINE STA 275+50

269+00
270+00
271+00
272+00
273+00
274+00
275+00

LEGEND

	BASE PATCHING CONCRETE
	BASE PATCHING CONCRETE SHES
	ASPHALTIC REPAIR
	REMOVE & REPLACE CONCRETE CURB & GUTTER
XXXXXXXX	SAWING CONCRETE/ASPHALT
— — — —	EXISTING RIGHT OF WAY
— — — —	TEMPORARY LIMITED EASEMENT
X	CURB RAMP TYPE X*
XM	CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

30-A	CURB & GUTTER 30-INCH TYPE A
30-AS	CURB & GUTTER 30-INCH TYPE A, SPECIAL
30-G	CURB & GUTTER 6" SLOPED 30" TYPE G
30-GS	CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
SW5	CONCRETE SIDEWALK 5-INCH
AS4	ASPHALTIC SURFACE 4-INCH
SN-X	CONCRETE MEDIAN SLOPED NOSE - TYPE X
PAV 1	4" MILL & 4" HMA OVERLAY
PAV 2	2" MILL & 2" HMA OVERLAY
0-0	STORM SEWER STRUCTURE NUMBER
X	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 44	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021207-pd

PLOT DATE : 3/14/2023 11:19 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

4B1

4B1

PAV 2

SLOPE INTERCEPT (TYP.)

30-AS

8-1 STA 275+75, 63' LT RECONSTRUCTING INLET

30-AS

STA 278+74, 63' LT RECONSTRUCTING INLET 8-6

30-AS

STA 281+75, 63' LT RECONSTRUCTING INLET 8-9

30-AS

BLUEMOUND ROAD/USH 18

PAV 1

276+00 277+00 278+00 279+00 280+00 281+00 282+00

MATCHLINE STA 275+50

MATCHLINE STA 282+50

PAV 1

30-AS STA 276+39, 63' RT ADJUSTING INLET COVER 8-3 30-AS

8-2 STA 275+75, 63' RT TUCK POINT

30-AS STA 277+78, 63' RT NEW FLAT SLAB TOP REQ'D (RECONSTRUCTING INLET) 8-4

30-AS STA 278+77, 63' RT NEW FLAT SLAB TOP REQ'D (RECONSTRUCTING INLET) 8-5 30-AS

30-AS STA 279+83, 63' RT NEW FLAT SLAB TOP REQ'D (RECONSTRUCTING INLET) 8-7

30-AS STA 281+75, 63' RT TUCK POINT 8-8 30-AS

EXISTING R/W

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 45	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021208-pd

PLOT DATE : 3/14/2023 11:19 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

REFER TO DETAILS ELSEWHERE IN THESE PLANS FOR THE FRONTAGE ROAD WORK

EXISTING R/W

REMOVING CURB & GUTTER
REMOVING CONCRETE SIDEWALK

FRONTAGE ROAD

4B1

4B1

30-AS

STA 287+49, 63' LT
RECONSTRUCTING INLET
9-7

30-AS

BLUEMOUND ROAD/USH 18

PAV 1

STA 284+75, 12' LT
ADJUSTING INLET
9-2

30-A

MATCHLINE STA 282+50

283+00 284+00 285+00 286+00 287+00 288+00 289+00

MATCHLINE STA 289+50

PAV 1

STA 285+94, 13' RT
ADJUSTING INLET
9-4

30-A

STA 283+49, 63' RT
TUCK POINT
9-1

30-AS

30-AS

PAV 2

4B1

4B1

STA 285+00, 63' RT
TUCK POINT
9-3

SLOPE INTERCEPT (TYP.)

STA 286+54, 63' RT
TUCK POINT
9-5

30-AS

STA 287+51, 63' RT
TUCK POINT
9-6

30-AS

STA 287+85, 63' RT
INLET COVER TYPE H
NEW FLAT SLAB TOP REQ'D (RECONSTRUCTING INLET)
9-8

30-AS

STA 288+75, 63' RT
NEW FLAT SLAB TOP REQ'D (RECONSTRUCTING INLET)
9-9

EXISTING R/W

REGENCY CT

LEGEND

BASE PATCHING CONCRETE	30-A CURB & GUTTER 30-INCH TYPE A
BASE PATCHING CONCRETE SHES	30-AS CURB & GUTTER 30-INCH TYPE A, SPECIAL
ASPHALTIC REPAIR	30-G CURB & GUTTER 6" SLOPED 30" TYPE G
REMOVE & REPLACE CONCRETE CURB & GUTTER	30-GS CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
XXXXXXXXX SAWING CONCRETE/ASPHALT	SW5 CONCRETE SIDEWALK 5-INCH
EXISTING RIGHT OF WAY	AS4 ASPHALTIC SURFACE 4-INCH
TEMPORARY LIMITED EASEMENT	SN-X CONCRETE MEDIAN SLOPED NOSE - TYPE X
X CURB RAMP TYPE X*	PAV 1 4" MILL & 4" HMA OVERLAY
XM CURB RAMP TYPE X - MODIFIED*	PAV 2 2" MILL & 2" HMA OVERLAY
* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH	0-0 STORM SEWER STRUCTURE NUMBER
	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 46	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021209-pd

PLOT DATE : 3/14/2023 11:19 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

REFER TO DETAILS ELSEWHERE IN THESE PLANS FOR THE FRONTAGE ROAD WORK

FRONTAGE ROAD

EXISTING R/W

BLUEMOUND ROAD/USH 18

N BROOKFIELD RD

END CONSTRUCTION STA 51+33

PC: 290+97.95

PT: 294+65.56

MATCHLINE STA 289+50

MATCHLINE STA 296+50

290+00 291+00 292+00 293+00 294+00 295+00 296+00

50+00 51+00 52+00 49+00 48+00

STA 292+51, 12' RT TUCK POINT 10-1

STA 294+03, 64' RT TUCK POINT 10-2

STA 296+43, 133' RT ADJUSTING INLET 10-3

REMOVE DWF PANELS REPLACE WITH CONCRETE SIDEWALK

SLOPE INTERCEPT (TYP.)

END CONSTRUCTION STA 48+63

PAV 1

30-A 30-AS SW5 6 5 1M 1AM

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- X CURB RAMP TYPE X*
- XM CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- 30-A CURB & GUTTER 30-INCH TYPE A
- 30-AS CURB & GUTTER 30-INCH TYPE A, SPECIAL
- 30-G CURB & GUTTER 6" SLOPED 30" TYPE G
- 30-GS CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- SW5 CONCRETE SIDEWALK 5-INCH
- AS4 ASPHALTIC SURFACE 4-INCH
- SN-X CONCRETE MEDIAN SLOPED NOSE - TYPE X
- PAV 1 4" MILL & 4" HMA OVERLAY
- PAV 2 2" MILL & 2" HMA OVERLAY
- 0-0 STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 47	E

2

2

N

N BROOKFIELD RD

1M

30-A

6

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK

5

MATCHLINE STA 296+50

BROOKFIELD GPS DF9881
DO NO DISTURB

+14.89, -91.01' LT

SERVICE DRIVEWAY

PAV 1

EXISTING R/W

30-AS

STA 299+81, 64' LT
ADJUSTING INLET
11-4

30-AS

BLUEMOUND ROAD/USH 18

PAV 1

STA 298+74, 6' RT
RECONSTRUCTING INLET
11-2

297+00

298+00

299+00

300+00

301+00

302+00

303+00

30-A

STA 298+74, 13' RT
ADJUSTING INLET
11-3

30-A

USH 18

PAV 1

MATCHLINE STA 303+50

30-A

STA 297+14, 65' RT
TUCK POINT
11-1

STA 299+50, 63' RT
RECONSTRUCTING INLET
11-5

30-AS

STA 301+50, 63' RT
TUCK POINT
11-6

30-AS

EXISTING R/W

4B1M

SLOPE INTERCEPT (TYP.)

LEGEND

	BASE PATCHING CONCRETE
	BASE PATCHING CONCRETE SHES
	ASPHALTIC REPAIR
	REMOVE & REPLACE CONCRETE CURB & GUTTER
XXXXXXXX	SAWING CONCRETE/ASPHALT
	EXISTING RIGHT OF WAY
	TEMPORARY LIMITED EASEMENT
X	CURB RAMP TYPE X*
XM	CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

30-A	CURB & GUTTER 30-INCH TYPE A
30-AS	CURB & GUTTER 30-INCH TYPE A, SPECIAL
30-G	CURB & GUTTER 6" SLOPED 30" TYPE G
30-GS	CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
SW5	CONCRETE SIDEWALK 5-INCH
AS4	ASPHALTIC SURFACE 4-INCH
SN-X	CONCRETE MEDIAN SLOPED NOSE - TYPE X
PAV 1	4" MILL & 4" HMA OVERLAY
PAV 2	2" MILL & 2" HMA OVERLAY
0-0	STORM SEWER STRUCTURE NUMBER
X	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 48	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021211-pd
PLOT DATE : 3/14/2023 11:20 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

N

SERVICE DRIVEWAY

PAV 1

TLE

4B1

30-A

EXISTING R/W

SLOPE INTERCEPT (TYP.)

4A1

PAV 2

STA 307+50, 63' LT
TUCK POINT
12-2

30-AS

BLUEMOUND ROAD/USH 18

STA 310+25, 64' LT
ADJUSTING INLET
12-3

MATCHLINE STA 303+50

MATCHLINE STA 310+50

304+00 305+00 306+00 307+00 308+00 309+00 310+00

STA 305+00, 63' RT
TUCK POINT
12-1

LEGEND

BASE PATCHING CONCRETE	30-A CURB & GUTTER 30-INCH TYPE A
BASE PATCHING CONCRETE SHES	30-AS CURB & GUTTER 30-INCH TYPE A, SPECIAL
ASPHALTIC REPAIR	30-G CURB & GUTTER 6" SLOPED 30" TYPE G
REMOVE & REPLACE CONCRETE CURB & GUTTER	30-GS CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
XXXXXXXXX SAWING CONCRETE/ASPHALT	SW5 CONCRETE SIDEWALK 5-INCH
EXISTING RIGHT OF WAY	AS4 ASPHALTIC SURFACE 4-INCH
TEMPORARY LIMITED EASEMENT	SN-X CONCRETE MEDIAN SLOPED NOSE - TYPE X
X CURB RAMP TYPE X*	PAV 1 4" MILL & 4" HMA OVERLAY
XM CURB RAMP TYPE X - MODIFIED*	PAV 2 2" MILL & 2" HMA OVERLAY
* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH	0-0 STORM SEWER STRUCTURE NUMBER
	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 49	E

2

N

MATCHLINE STA 310+50

MATCHLINE STA 317+50

BLUEMOUND ROAD/USH 18

4A1 4A1 4A1 4A1

TLE TLE

PAV 2 PAV 2

30-A 30-A

PAV 1

EXISTING R/W

STA 313+49, 13' LT
ADJUSTING INLET, CLEAN SS STRUCTURE 13-2 30-A

STA 314+96, 1' LT
ADJUSTING INLET 13-5 30-A

311+00 312+00 313+00 314+00 315+00 316+00 317+00

PAV 1

STA 312+00, 63' RT
TUCK POINT 13-1 30-AS

STA 313+62, 63' RT
RECONSTRUCTING INLET 13-3 4B1

30-A 13-4 STA 314+46, 63' RT
TUCK POINT

PAV 2

4B1

EXISTING R/W

SLOPE INTERCEPT (TYP.)

LEGEND

BASE PATCHING CONCRETE	30-A CURB & GUTTER 30-INCH TYPE A
BASE PATCHING CONCRETE SHES	30-AS CURB & GUTTER 30-INCH TYPE A, SPECIAL
ASPHALTIC REPAIR	30-G CURB & GUTTER 6" SLOPED 30" TYPE G
REMOVE & REPLACE CONCRETE CURB & GUTTER	30-GS CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
XXXXXXXXX SAWING CONCRETE/ASPHALT	SW5 CONCRETE SIDEWALK 5-INCH
EXISTING RIGHT OF WAY	AS4 ASPHALTIC SURFACE 4-INCH
TEMPORARY LIMITED EASEMENT	SN-X CONCRETE MEDIAN SLOPED NOSE - TYPE X
X CURB RAMP TYPE X*	PAV 1 4" MILL & 4" HMA OVERLAY
XM CURB RAMP TYPE X - MODIFIED*	PAV 2 2" MILL & 2" HMA OVERLAY
* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH	0-0 STORM SEWER STRUCTURE NUMBER
	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 50	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021213-pd
PLOT DATE : 3/14/2023 11:21 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 317+50

MATCHLINE STA 324+50

BLUEMOUND ROAD/USH 18

WOELFEL RD

N CORPORATE DR

EXISTING R/W

EXISTING R/W

PC: 319+64.42

STA 320+25, 62' LT
ADJUSTING INLET

STA 324+49, 71' RT
ADJUSTING INLET

END CONSTRUCTION
STA 51+26

END CONSTRUCTION
STA 48+36

SLOPE INTERCEPT (TYP.)

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK

318+00
319+00
320+00
321+00
322+00
323+00
324+00
52+00
51+00
50+00
49+00
48+00

25'

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 51	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021214-pd

PLOT DATE : 3/14/2023 11:22 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA 324+50

MATCHLINE STA 331+50

BLUEMOUND ROAD/USH 18

EXISTING R/W

EXISTING R/W

PT: 326+81.74

PAV 1

PAV 1

325+00

326+00

327+00

328+00

329+00

330+00

331+00

SW5

30-AS

30-AS

30-AS

30-A

STA 324+62, 5' LT
ADJUSTING INLET
15-6

STA 326+01, 53' LT
ADJUSTING INLET
15-1

STA 325+75, 3' LT
ADJUSTING INLET, TUCK POINT
15-2

STA 330+74, 52' LT
TUCK POINT
15-5

STA 328+71, 74' RT
TUCK POINT
15-3

STA 331+15, 74' RT
TUCK POINT
15-4

AS4

4B1

TLE

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 52	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021215-pd

PLOT DATE : 3/14/2023 11:22 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

CONSTRUCT BUS PAD FOR BUS STOP

EXISTING R/W

SW5

PAV 1

BLUEMOUND ROAD/USH 18

SLOPE INTERCEPT (TYP.)

4B1

30-A

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK

STA 337+25, 0' RT
ADJUSTING INLET

16-4

SN-2

MATCHLINE STA 331+50

332+00 333+00 334+00 335+00 336+00 337+00 338+00

MATCHLINE STA 338+50

PAV 1

30-A 30-AS

16-1 STA 332+51, 65' RT
ADJUSTING MANHOLE

16-2 STA 332+50, 74' RT
TUCK POINT

TLE

4B1

EXISTING R/W

STA 336+00, 75' RT
RECONSTRUCTING INLET

16-3

30-AS

DISCOVERY DRIVE

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

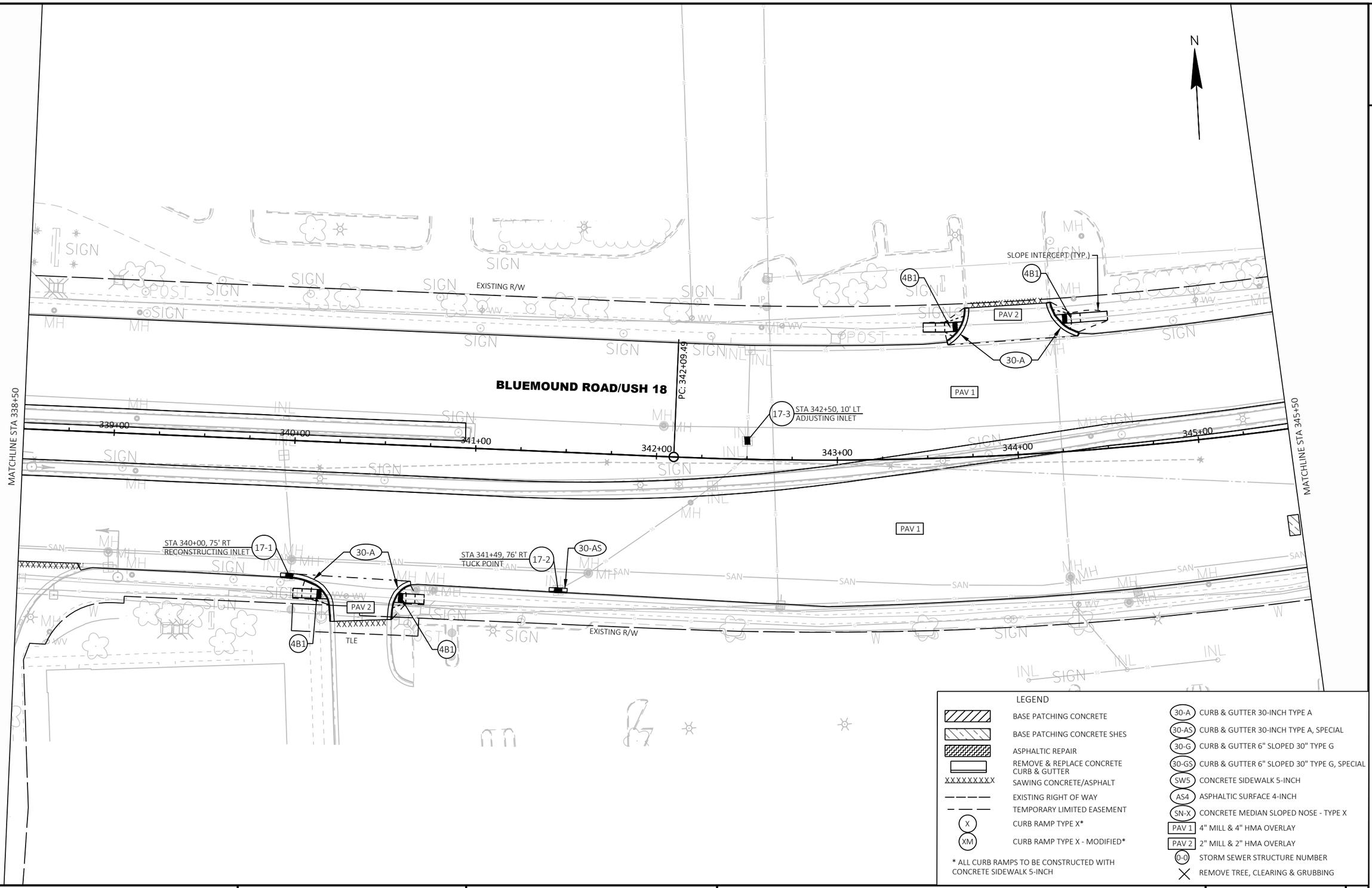
* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 53	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021216-pd
PLOT DATE : 3/14/2023 11:22 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 54	E

2

N

MATCHLINE STA 345+50

MATCHLINE STA 352+50

EXISTING R/W

N CALHOUN RD

BLUEMOUND ROAD/USH 18

PAV 1

PAV 2

SW5

30-A

30-AS

SN-2

6

5

346+00

347+00

348+00

349+00

350+00

351+00

352+00

50+00

51+00

52+00

49+00

48+00

PI: 349+70.77

+72.30
0.00'

+03.42
-21.24' LT

STA 352+49, 71' LT
ADJUSTING INLET 18-4

STA 352+14, 67' RT
ADJUSTING MANHOLE 18-3

STA 350+53, 77' RT
RECONSTRUCTING INLET 18-1

STA 352+15, 71' RT
RECONSTRUCTING INLET 18-2

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK

LAM

SLOPE INTERCEPT (TYP.)

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 55	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021218-pd

PLOT DATE : 3/14/2023 11:23 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

REINDERS DR

+85.16
-82.64'LT

5

4B1

+69.32
-83.19'LT

4B1

TLE

EXISTING R/W

STA 354+25, 70' LT
ADJUSTING INLET

19-1

30-A

30-AS

BLUEMOUND ROAD/USH 18

PC: 356+09.04

PAV 1

353+00

354+00

355+00

356+00

357+00

358+00

359+00

MATCHLINE STA 352+50

MATCHLINE STA 359+50

PAV 1

30-A

EXISTING R/W

TLE

+29.13
90.79'RT

+42.71
90.51'RT

4B1

4B1

REINDERS DR

SLOPE INTERCEPT (TYP.)

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 56	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021219-pd

PLOT DATE : 3/14/2023 11:24 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

BLUEMOUND ROAD/USH 18

THOMAS LN

MATCHLINE STA 359+50

MATCHLINE STA 366+50

EXISTING R/W

TLE

PAV 1

PAV 2

SLOPE INTERCEPT (TYP.)

+44.93
-137.69'LT

PT: 365+31.38

STA 360+75, 17' LT
ADJUSTING INLET 20-1

STA 363+99, 14' LT
ADJUSTING INLET 20-3

STA 364+59, 64' LT
ADJUSTING INLET 20-4

STA 361+00, 65' RT
TUCK POINT 20-2

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK

360+00 361+00 362+00 363+00 364+00 365+00 366+00

4B1 AS4 30-A 30-AS 1M SN-2 SW5 6 5

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 57	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021220-pd

PLOT DATE : 3/14/2023 11:24 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

THOMAS LN

+60.87
117.26'LT

6

LAM

SLOPE INTERCEPT (TYP.)

30-A

EXISTING R/W

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK

PAV 1

30-AS

STA 370+38, 63' LT
ADJUSTING INLET, CLEAN SS STRUCTURE

21-3

30-AS

STA 371+99, 63' LT
ADJUSTING INLET, CLEAN SS STRUCTURE

21-4

30-AS

BLUEMOUND ROAD/USH 18

21-1

STA 367+24, 13' LT
RECONSTRUCTING INLET

5

367+00

368+00

369+00

370+00

371+00

372+00

373+00

30-A

PAV 1

MATCHLINE STA 366+50

MATCHLINE STA 373+50

SW5

6

SW5

30-A

30-A

PAV 1

1M

+66.81
130.43'RT

STA 369+49, 63' RT
REVERSE EXISTING INLET GRATE

21-2

EXISTING R/W

LEGEND

	BASE PATCHING CONCRETE
	BASE PATCHING CONCRETE SHES
	ASPHALTIC REPAIR
	REMOVE & REPLACE CONCRETE CURB & GUTTER
XXXXXXXXX	SAWING CONCRETE/ASPHALT
	EXISTING RIGHT OF WAY
	TEMPORARY LIMITED EASEMENT
X	CURB RAMP TYPE X*
XM	CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

30-A	CURB & GUTTER 30-INCH TYPE A
30-AS	CURB & GUTTER 30-INCH TYPE A, SPECIAL
30-G	CURB & GUTTER 6" SLOPED 30" TYPE G
30-GS	CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
SW5	CONCRETE SIDEWALK 5-INCH
AS4	ASPHALTIC SURFACE 4-INCH
SN-X	CONCRETE MEDIAN SLOPED NOSE - TYPE X
PAV 1	4" MILL & 4" HMA OVERLAY
PAV 2	2" MILL & 2" HMA OVERLAY
0-0	STORM SEWER STRUCTURE NUMBER
X	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 58	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021221-pd

PLOT DATE : 3/14/2023 11:25 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

RUF RD

BLUEMOUND ROAD/USH 18

END CONSTRUCTION
STA 51+25

SLOPE INTERCEPT (TYP.)

EXISTING R/W

EXISTING R/W

STA 377+85, 13' LT
RECONSTRUCTING INLET

PC: 379+22.81

MATCHLINE STA 373+50

MATCHLINE STA 381+50

52+00

51+00

374+00

375+00

376+00

377+00

378+00

379+00

380+00

PAV 1

PAV 2

PAV 1

4B1

4B1

30-A

30-A

22-1

SW5

N

LEGEND

BASE PATCHING CONCRETE	30-A CURB & GUTTER 30-INCH TYPE A
BASE PATCHING CONCRETE SHES	30-AS CURB & GUTTER 30-INCH TYPE A, SPECIAL
ASPHALTIC REPAIR	30-G CURB & GUTTER 6" SLOPED 30" TYPE G
REMOVE & REPLACE CONCRETE CURB & GUTTER	30-GS CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
XXXXXXXXX SAWING CONCRETE/ASPHALT	SW5 CONCRETE SIDEWALK 5-INCH
EXISTING RIGHT OF WAY	AS4 ASPHALTIC SURFACE 4-INCH
TEMPORARY LIMITED EASEMENT	SN-X CONCRETE MEDIAN SLOPED NOSE - TYPE X
X CURB RAMP TYPE X*	PAV 1 4" MILL & 4" HMA OVERLAY
XM CURB RAMP TYPE X - MODIFIED*	PAV 2 2" MILL & 2" HMA OVERLAY
* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH	0-0 STORM SEWER STRUCTURE NUMBER
	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 59	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021222-pd

PLOT DATE : 3/14/2023 11:25 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

BLUEMOUND ROAD/USH 18

N EXECUTIVE DR

MATCHLINE STA 381+50

MATCHLINE STA 387+50

381+00 382+00 383+00 384+00 385+00 386+00 387+00

47+00 48+00 49+00 50+00 51+00

PT: 384+58.28

END CONSTRUCTION
STA 49+93

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK

SLOPE INTERCEPT (TYP.)

EXISTING R/W

TLE

PAV 1

30-A

30-AS

SW5

3

5

6

7A

1AM

23-1

STA 384+43, 82' RT
CLEAN SS STRUCTURE

END CONSTRUCTION
STA 47+17

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- X CURB RAMP TYPE X*
- XM CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- 30-A CURB & GUTTER 30-INCH TYPE A
- 30-AS CURB & GUTTER 30-INCH TYPE A, SPECIAL
- 30-G CURB & GUTTER 6" SLOPED 30" TYPE G
- 30-GS CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- SW5 CONCRETE SIDEWALK 5-INCH
- AS4 ASPHALTIC SURFACE 4-INCH
- SN-X CONCRETE MEDIAN SLOPED NOSE - TYPE X
- PAV 1 4" MILL & 4" HMA OVERLAY
- PAV 2 2" MILL & 2" HMA OVERLAY
- 0-0 STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 60	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021223-pd

PLOT DATE : 3/14/2023 11:26 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

END CONSTRUCTION
STA 51+75

52+00

51+00

SW5
30-A
3M
PAV 1
SLOPE INTERCEPT (TYP.)
LAM
EXISTING R/W
30-A
5
30-A
REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK
PAV 1
30-AS
FOUNTAIN
SIGN
MH
INL
SS
W
WV

STA 392+02, 19' LT
ADJUSTING MANHOLE
24-2
BLUEMOUND ROAD/USH 18

STA 389+93, 5' RT
TUCK POINT
24-1
30-A
388+00
389+00
390+00
391+00
392+00
393+00
394+00

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK
5
PAV 1
ABANDON

30-A
SW5
REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK
30-A
5
30-A
5
LAM
SW5
MAIN ST
PAV 1
LAM
REVERSE SLOPE C&G
30-A
EXISTING R/W
TLE
+16.63
159.23'RT
CBT

MATCHLINE STA 387+50

MATCHLINE STA 394+50

LEGEND

BASE PATCHING CONCRETE	30-A CURB & GUTTER 30-INCH TYPE A
BASE PATCHING CONCRETE SHES	30-AS CURB & GUTTER 30-INCH TYPE A, SPECIAL
ASPHALTIC REPAIR	30-G CURB & GUTTER 6" SLOPED 30" TYPE G
REMOVE & REPLACE CONCRETE CURB & GUTTER	30-GS CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
XXXXXXXXX SAWING CONCRETE/ASPHALT	SW5 CONCRETE SIDEWALK 5-INCH
EXISTING RIGHT OF WAY	AS4 ASPHALTIC SURFACE 4-INCH
TEMPORARY LIMITED EASEMENT	SN-X CONCRETE MEDIAN SLOPED NOSE - TYPE X
X CURB RAMP TYPE X*	PAV 1 4" MILL & 4" HMA OVERLAY
XM CURB RAMP TYPE X - MODIFIED*	PAV 2 2" MILL & 2" HMA OVERLAY
	0-0 STORM SEWER STRUCTURE NUMBER
	REMOVE TREE, CLEARING & GRUBBING

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 61	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021224-pd

PLOT DATE : 3/14/2023 11:26 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

BLUEMOUND ROAD/USH 18

EXISTING R/W

EXISTING R/W

MATCHLINE STA 394+50

MATCHLINE STA 401+50

STA 395+51, 55' LT
TUCK POINT

25-2

30-AS

30-A

395+00

396+00

397+00

398+00

399+00

400+00

401+00

PC: 398+04.49

PT: 401+18.46

PAV 1

30-A

25-1

STA 395+18, 9' RT
TUCK POINT

PAV 1

30-A

4A1

PAV 2

XXXXXX

+65.10
114.82'RT

PAV 2

XXXXXX

TLE

+75.80
120.66'RT

4A1

SLOPE INTERCEPT (TYP.)

SW5

LEGEND

	BASE PATCHING CONCRETE
	BASE PATCHING CONCRETE SHES
	ASPHALTIC REPAIR
	REMOVE & REPLACE CONCRETE CURB & GUTTER
XXXXXXXXX	SAWING CONCRETE/ASPHALT
	EXISTING RIGHT OF WAY
	TEMPORARY LIMITED EASEMENT
X	CURB RAMP TYPE X*
XM	CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

30-A	CURB & GUTTER 30-INCH TYPE A
30-AS	CURB & GUTTER 30-INCH TYPE A, SPECIAL
30-G	CURB & GUTTER 6" SLOPED 30" TYPE G
30-GS	CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
SW5	CONCRETE SIDEWALK 5-INCH
AS4	ASPHALTIC SURFACE 4-INCH
SN-X	CONCRETE MEDIAN SLOPED NOSE - TYPE X
PAV 1	4" MILL & 4" HMA OVERLAY
PAV 2	2" MILL & 2" HMA OVERLAY
0-0	STORM SEWER STRUCTURE NUMBER
X	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 62	E

2

2

N

BLUEMOUND ROAD/USH 18

N MOORLAND RD

MATCHLINE STA 401+50

MATCHLINE STA 408+50

402+00 403+00 404+00 405+00 406+00 407+00 408+00

52+00 51+00 50+00 49+00 48+00

PAV 1

SW5

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK

30-A

30-AS

5

6

EXISTING R/W

STA 403+21, 95' RT
ADJUSTING INLET
26-1

STA 403+49, 88' RT
ADJUSTING MANHOLE
26-2

STA 405+18, 72' RT
ADJUSTING MANHOLE
26-3

STA 408+24, 58' RT
ADJUSTING INLET
26-4

+15.96
-20.64'LT

LEGEND

BASE PATCHING CONCRETE	30-A CURB & GUTTER 30-INCH TYPE A
BASE PATCHING CONCRETE SHES	30-AS CURB & GUTTER 30-INCH TYPE A, SPECIAL
ASPHALTIC REPAIR	30-G CURB & GUTTER 6" SLOPED 30" TYPE G
REMOVE & REPLACE CONCRETE CURB & GUTTER	30-GS CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
XXXXXXXXX SAWING CONCRETE/ASPHALT	SW5 CONCRETE SIDEWALK 5-INCH
EXISTING RIGHT OF WAY	AS4 ASPHALTIC SURFACE 4-INCH
TEMPORARY LIMITED EASEMENT	SN-X CONCRETE MEDIAN SLOPED NOSE - TYPE X
X CURB RAMP TYPE X*	PAV 1 4" MILL & 4" HMA OVERLAY
XM CURB RAMP TYPE X - MODIFIED*	PAV 2 2" MILL & 2" HMA OVERLAY
	0-0 STORM SEWER STRUCTURE NUMBER
	REMOVE TREE, CLEARING & GRUBBING

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 63	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021226-pd

PLOT DATE : 3/14/2023 11:27 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

MATCHLINE STA 408+50

MATCHLINE STA 415+50

BLUEMOUND ROAD/USH 18

EXISTING R/W

PAV 1

PAV 2

409+00 410+00 411+00 412+00 413+00 414+00 415+00

30-GS

30-A

30-G

27-1 STA 409+20, 58' RT ADJUSTING INLET

27-2 STA 411+11, 59' RT INLET COVER TYPE HM-GJ, TUCK POINT

27-3 STA 413+58, 57' RT ADJUSTING INLET

4B1

SLOPE INTERCEPT (TYP.)

TLE

+07.48 72.49'RT

N FAIRWAY DR

4'×10"&2'×10"

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 64	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021227-pd

PLOT DATE : 3/14/2023 11:28 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

TERRACE DR

+93.08
-94.38'LT

4B1

XXXXXXXX

PAV 2

REMOVE PEDESTRIAN CURB RAMP
REMOVING CONCRETE SIDEWALK,
RESTORE WITH TOPSOIL, SOD LAWN,
AND FERTILIZER TYPE B

PC: 416+81.61

30-G

REMOVE PEDESTRIAN CROSSING CURB RAMP
RESTORE WITH TOPSOIL, SOD, AND FERTILIZER

EXISTING R/W

REMOVE CONCRETE SIDEWALK
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

30-GS

BLUEMOUND ROAD/USH 18

MATCHLINE STA 415+50

416+00

417+00

418+00

419+00

420+00

421+00

422+00

MATCHLINE STA 422+50

30-A

PAV 1

30-A

PAV 1

30-G

REMOVE PEDESTRIAN CROSSING
CURB RAMP
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

4B1

PAV 2

XXXXXX

+88.40
91.84'RT

WESTMOOR DR

REMOVE PEDESTRIAN CROSSING
CURB RAMP
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

4B1

EXISTING R/W

30-G

4B1

PAV 2

XXXXXX

N PROSPECT DR

SLOPE INTERCEPT (TYP.)

+49.99
112.92'RT

LEGEND

	BASE PATCHING CONCRETE
	BASE PATCHING CONCRETE SHES
	ASPHALTIC REPAIR
	REMOVE & REPLACE CONCRETE CURB & GUTTER
XXXXXXXXX	SAWING CONCRETE/ASPHALT
	EXISTING RIGHT OF WAY
	TEMPORARY LIMITED EASEMENT
X	CURB RAMP TYPE X*
XM	CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

30-A	CURB & GUTTER 30-INCH TYPE A
30-AS	CURB & GUTTER 30-INCH TYPE A, SPECIAL
30-G	CURB & GUTTER 6" SLOPED 30" TYPE G
30-GS	CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
SW5	CONCRETE SIDEWALK 5-INCH
AS4	ASPHALTIC SURFACE 4-INCH
SN-X	CONCRETE MEDIAN SLOPED NOSE - TYPE X
PAV 1	4" MILL & 4" HMA OVERLAY
PAV 2	2" MILL & 2" HMA OVERLAY
0-0	STORM SEWER STRUCTURE NUMBER
	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 65	E

2

2

N

REMOVE PEDESTRIAN CROSSING CURB RAMP
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

EXISTING R/W

PT: 423+11.35

PAV 1

REMOVE CONCRETE SIDEWALK
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

BLUEMOUND ROAD/USH 18

MATCHLINE STA 422+50

MATCHLINE STA 429+50

423+00 424+00 425+00 426+00 427+00 428+00 429+00

30-A

PAV 1

30-G

REMOVE PEDESTRIAN
CROSSING CURB RAMP
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

4B1

PAV 2

REMOVE PEDESTRIAN CROSSING CURB RAMP

EXISTING R/W

STA 423+88, 75' RT
TUCK POINT

29-1

XXXXXX

+03.90
102.70'RT

N LEANORE LN

N LYNNWOOD LN

SLOPE INTERCEPT (TYP.)

LEGEND

BASE PATCHING CONCRETE	30-A CURB & GUTTER 30-INCH TYPE A
BASE PATCHING CONCRETE SHES	30-AS CURB & GUTTER 30-INCH TYPE A, SPECIAL
ASPHALTIC REPAIR	30-G CURB & GUTTER 6" SLOPED 30" TYPE G
REMOVE & REPLACE CONCRETE CURB & GUTTER	30-GS CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
XXXXXXXXX SAWING CONCRETE/ASPHALT	SW5 CONCRETE SIDEWALK 5-INCH
EXISTING RIGHT OF WAY	AS4 ASPHALTIC SURFACE 4-INCH
TEMPORARY LIMITED EASEMENT	SN-X CONCRETE MEDIAN SLOPED NOSE - TYPE X
X CURB RAMP TYPE X*	PAV 1 4" MILL & 4" HMA OVERLAY
XM CURB RAMP TYPE X - MODIFIED*	PAV 2 2" MILL & 2" HMA OVERLAY
* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH	0-0 STORM SEWER STRUCTURE NUMBER
	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 66	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021229-pd

PLOT DATE : 3/14/2023 11:29 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

ROSEDALE DR

CRYSTAL LN

BLUEMOUND ROAD/USH 18

N ROSEDALE DR

N ELMRIDGE AVE

MATCHLINE STA 429+50

MATCHLINE STA 436+50

EXISTING R/W

+43.22
-95.55'LT

+07.54
-94.89'LT

REMOVE PEDESTRIAN CROSSING CURB RAMP

REMOVE PEDESTRIAN CROSSING CURB RAMP
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

PC: 431+13.80

STA 432+50, 51' LT
ADJUSTING INLET

REMOVE CONCRETE SIDEWALK
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

STA 435+50, 13' RT
ADJUSTING INLET

STA 434+80, 51' RT
ADJUSTING INLET

+95.55
93.91'RT

+21.31
98.06'RT

SLOPE INTERCEPT (TYP.)

4B1 PAV 2 PAV 1 30-G 30-GS 30-1 30-A 30-3 30-2

430+00 431+00 432+00 433+00 434+00 435+00 436+00

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 67	E

2

N

BLUEMOUND ROAD/USH 18

HI VIEW CT

VERNON PL

N PARK BLVD

N BEAUMONT AVE

EXISTING R/W

MATCHLINE STA 436+50

MATCHLINE STA 433+50

437+00 438+00 439+00 440+00 441+00 442+00 443+00

PT: 438+01.16

+70.46
-104.87'LT

+53.18
-98.09'LT

+62.37
99.50'RT

+80.65
98.98'RT

STA 440+50, 51' RT
TUCK POINT

49+00

48+00

REMOVE MID-BLOCK CROSSING CURB RAMP
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

SLOPE INTERCEPT (TYP.)

END CONSTRUCTION
STA 49+06

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 68	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021231-pd
PLOT DATE : 3/14/2023 11:29 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

SIGN

INL

MH

PAV 1

PI: 446+91.56

BLUEMOUND ROAD/USH 18

444+00

445+00

446+00

447+00

448+00

449+00

450+00

MATCHLINE STA 443+50

MATCHLINE STA 450+50

PAV 1

30-G

PAV 2

XXXXXXXXX

4B1

4B1

+05.57
73.74'RT

SLOPE INTERCEPT (TYP.)

N EASTMOOR AVE

WV

SAN

TV

EXISTING R/W

LEGEND

	BASE PATCHING CONCRETE
	BASE PATCHING CONCRETE SHES
	ASPHALTIC REPAIR
	REMOVE & REPLACE CONCRETE CURB & GUTTER
XXXXXXXXX	SAWING CONCRETE/ASPHALT
	EXISTING RIGHT OF WAY
	TEMPORARY LIMITED EASEMENT
X	CURB RAMP TYPE X*
XM	CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

30-A	CURB & GUTTER 30-INCH TYPE A
30-AS	CURB & GUTTER 30-INCH TYPE A, SPECIAL
30-G	CURB & GUTTER 6" SLOPED 30" TYPE G
30-GS	CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
SW5	CONCRETE SIDEWALK 5-INCH
AS4	ASPHALTIC SURFACE 4-INCH
SN-X	CONCRETE MEDIAN SLOPED NOSE - TYPE X
PAV 1	4" MILL & 4" HMA OVERLAY
PAV 2	2" MILL & 2" HMA OVERLAY
0-0	STORM SEWER STRUCTURE NUMBER
X	REMOVE TREE, CLEARING & GRUBBING

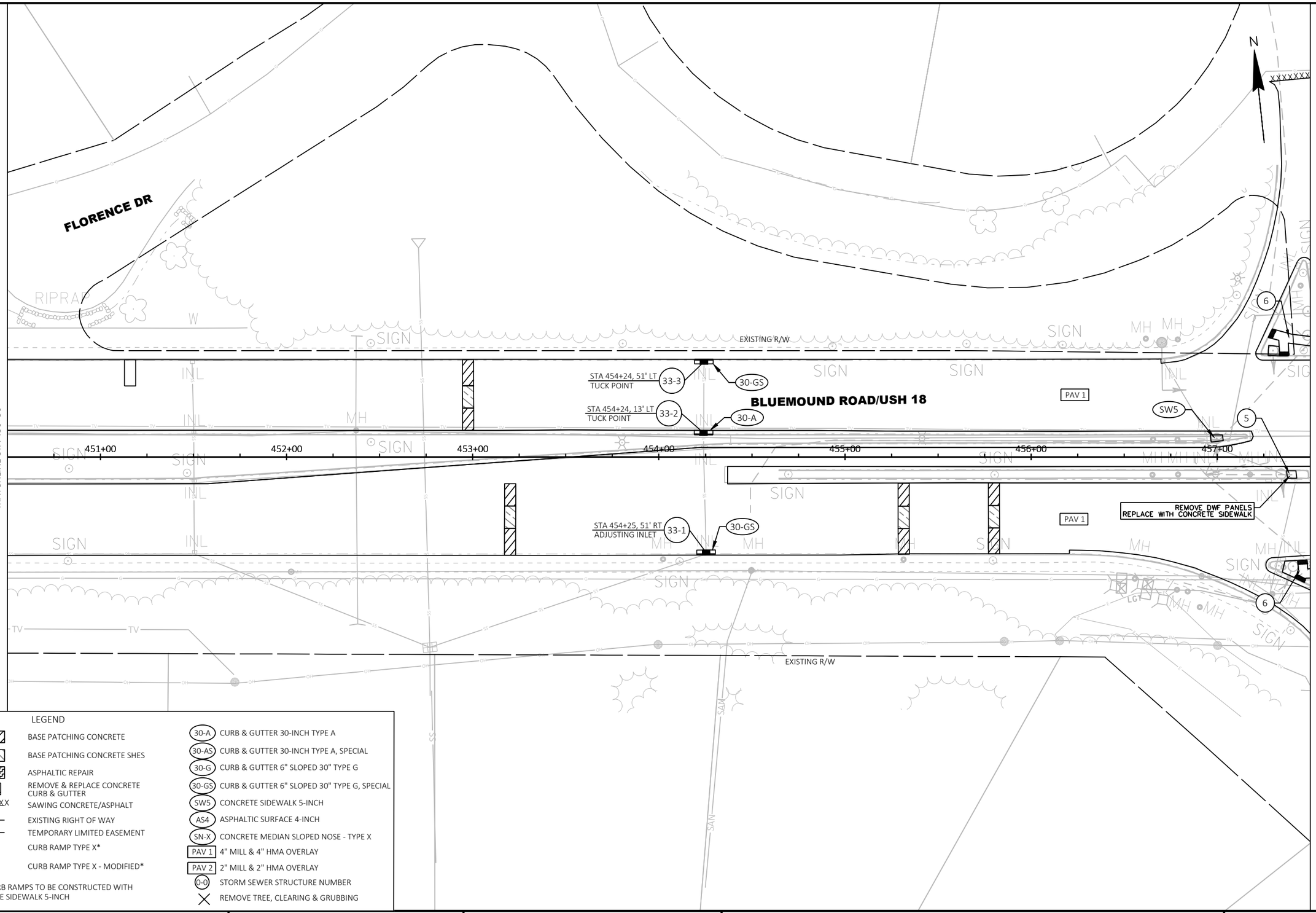
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 69	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021232-pd

PLOT DATE : 3/14/2023 11:30 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 70	E

2

END CONSTRUCTION
STA 52+05

52+00

PAV 1

SUNNYSLOPE RD

51+00

6

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK

5

PI: 459+15.90

STA 460+56, 51' LT
CLEAN SS STRUCTURE

34-2

EXISTING R/W

REMOVE PEDESTRIAN CROSSING CURB RAMP
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

PC: 463+90.12

BLUEMOUND ROAD/USH 18

MATCHLINE STA 457+50

50+00

458+00

459+00

460+00

461+00

462+00

463+00

464+00

MATCHLINE STA 464+50

PAV 1

SW5

STA 460+50, 13' RT
TUCK POINT

34-1

30-A

REMOVE CONCRETE SIDEWALK
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

6

49+00

REMOVE PEDESTRIAN CROSSING CURB RAMP
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

PAV 1

EXISTING R/W

END CONSTRUCTION
STA 48+63

48+00

N

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- X REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 71	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021234-pd
PLOT DATE : 3/14/2023 11:31 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

2

N

MEADOW LN

SLOPE INTERCEPT (TYP.)

4B1

REMOVE PEDESTRIAN CROSSING RAMP
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

EXISTING R/W

7B

30-GS

PAV 2

30-G

STA 466+60, 51' LT
RECONSTRUCTING INLET

35-1

30-GS

PAV 1

PT: 469+26.19

BLUEMOUND ROAD/USH 18

MATCHLINE STA 464+50

465+00

466+00

467+00

468+00

469+00

470+00

471+00

5

PAV 1

MATCHLINE STA 471+50

REMOVE CONCRETE SIDEWALK
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

30-A

30-G

PAV 2

3M

+36.52
80.09'RT

REMOVE PEDESTRIAN CROSSING CURB RAMP
RESTORE WITH TOPSOIL, SOD,
AND FERTILIZER

EXISTING R/W

BISHOP WAY

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 72	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021235-pd

PLOT DATE : 3/14/2023 11:31 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA 471+50

MATCHLINE STA 478+50

PARK CIR

SLOPE INTERCEPT (TYP.)

PAV 2

+03.36
-82.79'LT

EXISTING R/W

4B1

4B1

30-G

PAV 1

BLUEMOUND ROAD/USH 18

472+00

473+00

474+00

475+00

476+00

477+00

478+00

STA 474+00, 7' RT
INLET COVER TYPE HM-GJ, TUCK POINT

36-1

30-A

STA 477+26, 52' RT
TUCK POINT

36-2

30-GS

30-A

PAV 1

4B1

30-A

30-G

PAV 2

4B1

+87.37
78.62'RT

+54.46
84.94'RT

4B1

BISHOP WAY

EXISTING R/W

LEGEND

	BASE PATCHING CONCRETE
	BASE PATCHING CONCRETE SHES
	ASPHALTIC REPAIR
	REMOVE & REPLACE CONCRETE CURB & GUTTER
XXXXXXXXX	SAWING CONCRETE/ASPHALT
	EXISTING RIGHT OF WAY
	TEMPORARY LIMITED EASEMENT
X	CURB RAMP TYPE X*
XM	CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

30-A	CURB & GUTTER 30-INCH TYPE A
30-AS	CURB & GUTTER 30-INCH TYPE A, SPECIAL
30-G	CURB & GUTTER 6" SLOPED 30" TYPE G
30-GS	CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
SW5	CONCRETE SIDEWALK 5-INCH
AS4	ASPHALTIC SURFACE 4-INCH
SN-X	CONCRETE MEDIAN SLOPED NOSE - TYPE X
PAV 1	4" MILL & 4" HMA OVERLAY
PAV 2	2" MILL & 2" HMA OVERLAY
0-0	STORM SEWER STRUCTURE NUMBER
X	REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 73	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021236-pd

PLOT DATE : 3/14/2023 11:31 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 478+50

MATCHLINE STA 485+50

EXISTING R/W

BLUEMOUND ROAD/USH 18

ELM GROVE RD

PC: 482+97.46

479+00

480+00

481+00

482+00

483+00

484+00

485+00

52+00

51+00

50+00

49+00

48+00

PAV 1

STA 480+01, 52' RT
TUCK POINT
37-1
30-GS

STA 482+92, 13' RT
ADJUSTING INLET, TUCK POINT
37-2

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK
5

REMOVE DWF PANELS
REPLACE WITH CONCRETE SIDEWALK
5

6

30-A

1M

SLOPE INTERCEPT (TYP.)

EXISTING R/W

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 74	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021237-pd

PLOT DATE : 3/14/2023 11:32 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 485+50

MATCHLINE STA 492+50

EXISTING R/W

PT: 488+26.76

BLUEMOUND ROAD/USH 18

STA 489+25, 6' LT
CLEAN SS STRUCTURE 38-1

STA 491+75, 51' LT
ADJUSTING INLET 38-2

30-GS

30-A

30-A

BUMP CURB FACE BACK 2-FT
AROUND ELECTRIC MANHOLE

30-G

PAV 1

PAV 1

PAV 2

4B1

SLOPE INTERCEPT (TYP.)

+30.67
112.24'RT

N COLUMBIA BLVD

EXISTING R/W

486+00 487+00 488+00 489+00 490+00 491+00 492+00

U/C

FLAG

POST

SIGN

MH

INL

SS

W

X

OH

G

E

S

W

LEGEND

BASE PATCHING CONCRETE	30-A CURB & GUTTER 30-INCH TYPE A
BASE PATCHING CONCRETE SHES	30-AS CURB & GUTTER 30-INCH TYPE A, SPECIAL
ASPHALTIC REPAIR	30-G CURB & GUTTER 6" SLOPED 30" TYPE G
REMOVE & REPLACE CONCRETE CURB & GUTTER	30-GS CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
XXXXXXXXX SAWING CONCRETE/ASPHALT	SW5 CONCRETE SIDEWALK 5-INCH
EXISTING RIGHT OF WAY	AS4 ASPHALTIC SURFACE 4-INCH
TEMPORARY LIMITED EASEMENT	SN-X CONCRETE MEDIAN SLOPED NOSE - TYPE X
X CURB RAMP TYPE X*	PAV 1 4" MILL & 4" HMA OVERLAY
XM CURB RAMP TYPE X - MODIFIED*	PAV 2 2" MILL & 2" HMA OVERLAY
	0-0 STORM SEWER STRUCTURE NUMBER
	REMOVE TREE, CLEARING & GRUBBING

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 75	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021238-pd

PLOT DATE : 3/14/2023 11:32 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

6.5'x6.5' TRAFFIC SIGNAL BASE
APPROX. 5-FT DEEP
SEE SIGNAL PLANS FOR MORE INFORMATION

EXISTING R/W

BLUEMOUND ROAD/USH 18

MATCHLINE STA 492+50

MATCHLINE STA 499+50

493+00 494+00 495+00 496+00 497+00 498+00 499+00

7B SW5 30-GS 30-A SN-1 39-2 STA 495+08, 12' LT ADJUSTING INLET PAV 1 5 REMOVE DWF PANELS REPLACE WITH CONCRETE SIDEWALK 39-3 STA 495+08, 7' LT ADJUSTING INLET 30-G 2 39-1 STA 497+75, 51' RT ADJUSTING INLET 3 SLOPE INTERCEPT (TYP.)

8.5'x8.5' TRAFFIC SIGNAL BASE
APPROX. 7-FT DEEP
SEE SIGNAL PLANS FOR MORE INFORMATION

+03.29
119.36'RT

COLUMBIA BLVD

UNDERWOOD CROSSING PKWY

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 76	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021239-pd

PLOT DATE : 3/14/2023 11:33 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

STA 503+49, 52' LT
ADJUSTING INLET
40-2

EXISTING R/W

STA 505+00, 51' LT
ADJUSTING INLET
40-3

STA 506+25, 52' LT
ADJUSTING INLET
40-4

STA 502+90, 13' LT
ADJUSTING INLET
40-1

BLUEMOUND ROAD/USH 18

30-A
30-GS
PAV 1

500+00
501+00
502+00
503+00
504+00
505+00
506+00

MATCHLINE STA 499+50

MATCHLINE STA 506+50

EXISTING R/W

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 77	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021240-pd

PLOT DATE : 3/14/2023 11:33 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 506+50

PETROLEUM CONTAMINATED SOIL
1' TO 8' BELOW GROUND SURFACE
STA. 509+50 TO STA. 511+34
15' LT TO PROJECT LIMITS LT

EXISTING R/W

124TH STREET

52+00

51+00

END CONSTRUCTION
STA 50+70

END PROJECT
STA 511+34
MATCH EXISTING
SAW CUT REQ'D

PROPOSED R/W

4B1

30-G

7B

4B1M

PAV 1

30-GS

BLUEMOUND ROAD/USH 18

30-A

PC: 511+64.22

507+00

508+00

509+00

510+00

511+00

512+00

513+00

5

30-GS

+72.07
22.49'RT

EXISTING R/W

7A

SLOPE INTERCEPT (TYP.)

N

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 78 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021241-pd
PLOT DATE : 3/14/2023 11:33 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

N

END CONSTRUCTION
STA 45+63

+03.42
-21.24'LT

347+00

348+00

349+00

EXISTING R/W

46+00 47+00 48+00 49+00 50+00 51+00 52+00 53+00

PT: 349+70.77

22.30
0.00

END CONSTRUCTION
STA 52+81

N CALHOUN RD

350+00

BLUEMOUND ROAD/USH 18

351+00

30-A

18-1 STA 350+53.77' RT
RECONSTRUCTING INLET

SLOPE INTERCEPT (TYP.)

EXISTING R/W

END CONSTRUCTION
STA 80+72
MATCH EXISTING
SAW CUT REQ'D

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 79	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021218-pd-Calhoun

PLOT DATE : 3/14/2023 11:24 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

STA 403+21, 95' RT
ADJUSTING INLET
26-1

STA 403+49, 88' RT
ADJUSTING MANHOLE
26-2

END CONSTRUCTION
STA 47+55

+15.96
-20.64'LT

N MOORLAND RD

47+00 48+00 49+00 50+00 51+00 52+00 53+00

403+00 404+00 405+00 406+00 407+00

END CONSTRUCTION
STA 53+05

26-3 STA 405+18, 72' RT
ADJUSTING MANHOLE

BLUEMOUND ROAD/USH 18

EXISTING R/W

N

LEGEND

- BASE PATCHING CONCRETE
- BASE PATCHING CONCRETE SHES
- ASPHALTIC REPAIR
- REMOVE & REPLACE CONCRETE CURB & GUTTER
- XXXXXXXXX SAWING CONCRETE/ASPHALT
- EXISTING RIGHT OF WAY
- TEMPORARY LIMITED EASEMENT
- (X) CURB RAMP TYPE X*
- (XM) CURB RAMP TYPE X - MODIFIED*

* ALL CURB RAMPS TO BE CONSTRUCTED WITH CONCRETE SIDEWALK 5-INCH

- (30-A) CURB & GUTTER 30-INCH TYPE A
- (30-AS) CURB & GUTTER 30-INCH TYPE A, SPECIAL
- (30-G) CURB & GUTTER 6" SLOPED 30" TYPE G
- (30-GS) CURB & GUTTER 6" SLOPED 30" TYPE G, SPECIAL
- (SW5) CONCRETE SIDEWALK 5-INCH
- (AS4) ASPHALTIC SURFACE 4-INCH
- (SN-X) CONCRETE MEDIAN SLOPED NOSE - TYPE X
- [PAV 1] 4" MILL & 4" HMA OVERLAY
- [PAV 2] 2" MILL & 2" HMA OVERLAY
- (0-0) STORM SEWER STRUCTURE NUMBER
- REMOVE TREE, CLEARING & GRUBBING

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN DETAILS	SHEET 80	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021226-pd Moorland

PLOT DATE : 3/14/2023 11:27 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

BEGIN PROJECT
STA 228+88
MATCH EXISTING
SAW CUT REQ'D

BEGIN CONSTRUCTION
STA 229+42
MATCH EXISTING
SAW CUT REQ'D

BLUEMOUND ROAD/USH 18

IH 94

227+00 228+00 229+00 230+00 231+00 232+00 233+00

MATCHLINE STA 233+50

SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN POST POST RIPRAP MH MH MH MH INL INL INL INL INL INL INL INL W W W W W W W W X X

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 81	E

2

2

N

CTH JJ

EXISTING R/W

BLUEMOUND ROAD/USH 18

PC: 234+69.10

234+00

235+00

236+00

237+00

238+00

239+00

240+00

MATCHLINE STA 233+50

MATCHLINE STA 240+50

SIGN

MH

INL

RIPRAP

BERM

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 82	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 02

PLOT DATE : 1/25/2023 8:11 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

BLUEMOUND ROAD/USH 18

N BARKER RD

SLOPE INTERCEPT (TYP.)

EXISTING R/W

EXISTING R/W

PT: 240+85.72

MATCHLINE STA 240+50

MATCHLINE STA 247+50

241+00 242+00 243+00 244+00 246+00 247+00

52+00 51+00 50+00 49+00 48+00

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 83	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 03

PLOT DATE : 1/25/2023 8:11 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

POPLAR CREEK PKWY

BLUEMOUND ROAD/USH 18

MATCHLINE STA 247+50

MATCHLINE STA 254+50

248+00 249+00 250+00 251+00 252+00 253+00 254+00

EXISTING R/W

SLOPE INTERCEPT (TYP.)

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 84	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 04

PLOT DATE : 1/25/2023 8:11 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

BLUEMOUND ROAD/USH 18

MATCHLINE STA 254+50

MATCHLINE STA 261+50

255+00 256+00 257+00 258+00 259+00 260+00 261+00

EXISTING R/W

EXISTING R/W

SIGN INL MH TLE D

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 85	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 05

PLOT DATE : 1/25/2023 8:11 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

ELIZABETH COURT

SLOPE INTERCEPT (TYP.)

TLE

EXISTING R/W

BLUEMOUND ROAD/USH 18

MATCHLINE STA 261+50

MATCHLINE STA 268+50

262+00

263+00

264+00

265+00

266+00

267+00

268+00

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 86	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 06

PLOT DATE : 1/25/2023 8:12 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

N JANACEK RD

BLUEMOUND ROAD/USH 18

EXISTING R/W

EXISTING R/W

SLOPE INTERCEPT (TYP.)

MATCHLINE STA 268+50

MATCHLINE STA 275+50

52+00

51+00

50+00

49+00

48+00

269+00

270+00

271+00

272+00

273+00

274+00

275+00

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 87	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 07

PLOT DATE : 1/25/2023 8:12 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

SLOPE INTERCEPT (TYP.)

BLUEMOUND ROAD/USH 18

276+00 277+00 278+00 279+00 280+00 281+00 282+00

MATCHLINE STA 275+50

MATCHLINE STA 282+50

EXISTING R/W

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 88	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 08

PLOT DATE : 1/25/2023 8:12 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

NOTE: REFER TO PLAN & PROFILE SHEETS FOR EROSION CONTROL AND RESTORATION DETAILS ALONG FRONTAGE ROAD.

N

EXISTING R/W

FRONTAGE ROAD

BLUEMOUND ROAD/USH 18

MATCHLINE STA 282+50

MATCHLINE STA 289+50

283+00 284+00 285+00 286+00 287+00 288+00 289+00

B

SLOPE INTERCEPT (TYP.)

EXISTING R/W

REGENCY CT

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

2

2

N

EXISTING R/W

FRONTAGE ROAD

N BROOKFIELD RD

BLUEMOUND ROAD/USH 18

MATCHLINE STA 289+50

MATCHLINE STA 296+50

PC: 290+97.95

PT: 294+65.56

290+00

291+00

292+00

293+00

294+00

295+00

296+00

52+00

51+00

50+00

49+00

48+00

SLOPE INTERCEPT (TYP.)

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- (X) INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 90	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 10

PLOT DATE : 1/25/2023 8:13 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

N BROOKFIELD RD

SERVICE DRIVEWAY

EXISTING R/W

BLUEMOUND ROAD/USH 18

297+00 298+00 299+00 300+00 301+00 302+00 303+00

MATCHLINE STA 296+50

MATCHLINE STA 303+50

USH 18

SLOPE INTERCEPT (TYP.)

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 91	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 11

PLOT DATE : 1/25/2023 8:13 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

SERVICE DRIVEWAY

TLE

EXISTING R/W

SLOPE INTERCEPT (TYP.)

TLE

BLUEMOUND ROAD/USH 18

MATCHLINE STA 303+50

304+00

305+00

306+00

307+00

308+00

309+00

310+00

MATCHLINE STA 310+50

EXISTING R/W

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 92	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 12

PLOT DATE : 1/25/2023 8:14 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

TLE

TLE

EXISTING R/W

SLOPE INTERCEPT (TYP.)

BLUEMOUND ROAD/USH 18

MATCHLINE STA 310+50

MATCHLINE STA 317+50

311+00

312+00

313+00

314+00

315+00

316+00

317+00

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 93	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 13

PLOT DATE : 1/25/2023 8:14 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

BLUEMOUND ROAD/USH 18

WOELFEL RD

N CORPORATE DR

EXISTING R/W

EXISTING R/W

PC: 319+64.42

SLOPE INTERCEPT (TYP.)

MATCHLINE STA 317+50

MATCHLINE STA 324+50

318+00

319+00

320+00

321+00

322+00

323+00

324+00

52+00

51+00

50+00

49+00

48+00

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 94	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 14

PLOT DATE : 1/25/2023 8:14 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

BLUEMOUND ROAD/USH 18

MATCHLINE STA 324+50

MATCHLINE STA 331+50

PT: 326+81.74

EXISTING R/W

325+00 326+00 327+00 328+00 329+00 330+00 331+00

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 95	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 15

PLOT DATE : 1/25/2023 8:15 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

MATCHLINE STA 331+50

MATCHLINE STA 338+50

SLOPE INTERCEPT (TYP.)

EXISTING R/W

BLUEMOUND ROAD/USH 18

332+00 333+00 334+00 335+00 336+00 337+00 338+00

EXISTING R/W

TLE

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 96	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 16

PLOT DATE : 1/25/2023 8:15 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

BLUEMOUND ROAD/USH 18

EXISTING R/W

SLOPE INTERCEPT (TYP.)

PC: 342+09.49

MATCHLINE STA 338+50

MATCHLINE STA 345+50

339+00

340+00

341+00

342+00

343+00

344+00

345+00

TLE

EXISTING R/W

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 97	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 17

PLOT DATE : 1/25/2023 8:15 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

MATCHLINE STA 345+50

MATCHLINE STA 352+50

EXISTING R/W

N CALHOUN RD

BLUEMOUND ROAD/USH 18

PI - 349+70.77

346+00

347+00

348+00

349+00

350+00

351+00

352+00

48+00

49+00

50+00

51+00

52+00

SLOPE INTERCEPT (TYP.)

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 98	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 18

PLOT DATE : 1/25/2023 8:16 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

REINDERS DR

TLE

EXISTING R/W

BLUEMOUND ROAD/USH 18

PC: 356+09.04

353+00

354+00

355+00

356+00

357+00

358+00

359+00

MATCHLINE STA 352+50

MATCHLINE STA 359+50

SLOPE INTERCEPT (TYP.)

REINDERS DR

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 99	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 19

PLOT DATE : 1/25/2023 8:16 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

BLUEMOUND ROAD/USH 18

THOMAS LN

EXISTING R/W

EXISTING R/W

TLE

TLE

SLOPE INTERCEPT (TYP.)

PT: 365+31.38

MATCHLINE STA 359+50

MATCHLINE STA 366+50

360+00

361+00

362+00

363+00

364+00

365+00

366+00

D

SIGN

MH

INL

POST

XXXXXXXXXX

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 100	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 20

PLOT DATE : 1/25/2023 8:16 AM

PLOT BY : GUILLAMA, TINA

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

2

2

N

THOMAS LN

SLOPE INTERCEPT (TYP.)

EXISTING R/W

BLUEMOUND ROAD/USH 18

367+00 368+00 369+00 370+00 371+00 372+00 373+00

EXISTING R/W

MATCHLINE STA 366+50

MATCHLINE STA 373+50

LEGEND

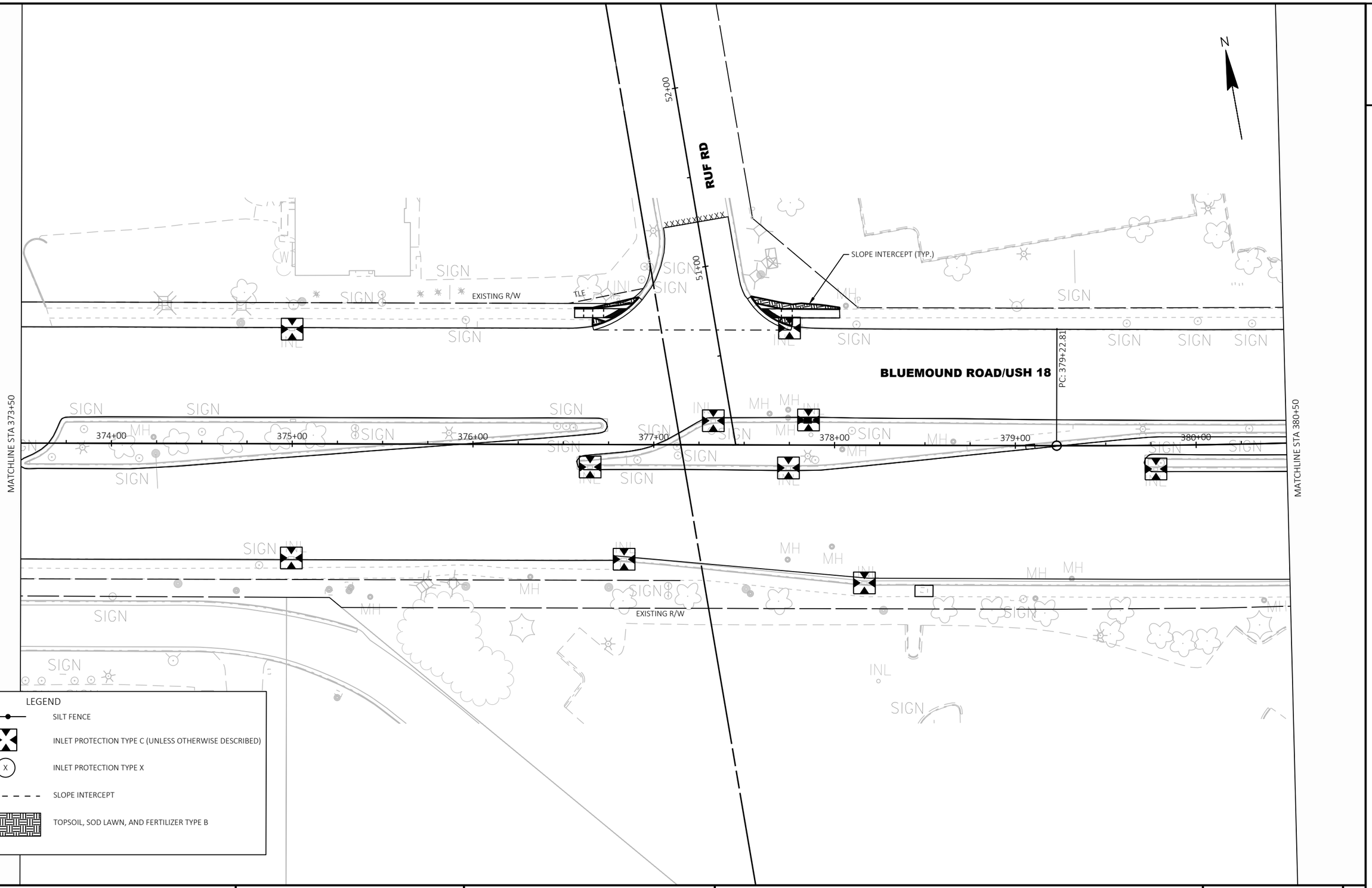
- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 101	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 21

PLOT DATE : 1/25/2023 8:17 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42


RUF RD
52+00
51+00
SLOPE INTERCEPT (TYP.)
EXISTING R/W
BLUEMOUND ROAD/USH 18
PC: 379+22.81
MATCHLINE STA 373+50
MATCHLINE STA 380+50
374+00
375+00
376+00
377+00
378+00
379+00
380+00
SIGN
INL
MH
TLE
N
LEGEND
SILT FENCE
INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
INLET PROTECTION TYPE X
SLOPE INTERCEPT
TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

2

2

N

BLUEMOUND ROAD/USH 18

N EXECUTIVE DR

MATCHLINE STA 380+50

MATCHLINE STA 387+50

PT: 384+58.28

SLOPE INTERCEPT (TYP.)

EXISTING R/W

47+00 48+00 49+00 50+00 51+00

381+00 382+00 383+00 384+00 385+00 386+00 387+00

FLAG POST POST TLE IP MH INL SIGN W

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 103	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 23

PLOT DATE : 1/25/2023 8:17 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 387+50

MATCHLINE STA 394+50

388+00 389+00 390+00 391+00 392+00 393+00 394+00

52+00

51+00

BLUEMOUND ROAD/USH 18

MAIN ST

SLOPE INTERCEPT (TYP.)

EXISTING R/W

EXISTING R/W

FOUNTAIN

SIGN

MH

INL

W

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 104	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 24

PLOT DATE : 1/25/2023 8:18 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

BLUEMOUND ROAD/USH 18

PC: 398+04.49

PT: 401+18.46

MATCHLINE STA 394+50

MATCHLINE STA 401+50

395+00 396+00 397+00 398+00 399+00 400+00 401+00

RIPRAP

SLOPE INTERCEPT (TYP.)

TLE

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 105	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 25

PLOT DATE : 1/25/2023 8:18 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

BLUEMOUND ROAD/USH 18

MATCHLINE STA 401+50

MATCHLINE STA 408+50

402+00 403+00 404+00 405+00 406+00 407+00 408+00

52+00 51+00 50+00 49+00 48+00

N MOORLAND RD

EXISTING R/W

EXISTING R/W

EXISTING R/W

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- (X) INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 106	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 26

PLOT DATE : 1/25/2023 8:18 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA 408+50

MATCHLINE STA 415+50

BLUEMOUND ROAD/USH 18

EXISTING R/W

EXISTING R/W

TLE

SLOPE INTERCEPT (TYP.)

N FAIRWAY DR

409+00 410+00 411+00 412+00 413+00 414+00 415+00

SIGN INL MH B W

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 107	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 27

PLOT DATE : 1/25/2023 8:18 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

TERRACE DR

EXISTING R/W

PC: 416+81.67

BLUEMOUND ROAD/USH 18

MATCHLINE STA 415+50

MATCHLINE STA 422+50

416+00

417+00

418+00

419+00

420+00

421+00

422+00

WESTMOOR DR

N PROSPECT DR

SLOPE INTERCEPT (TYP.)

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 108	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 28

PLOT DATE : 1/25/2023 8:19 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

PT: 423+11.35

MATCHLINE STA 422+50

MATCHLINE STA 429+50

BLUEMOUND ROAD/USH 18

423+00 424+00 425+00 426+00 427+00 428+00 429+00

SIGN SIGN SIGN

2

2

N

ROSEDALE DR

CRYSTAL LN

EXISTING R/W

EXISTING R/W

PC: 431+13.61

BLUEMOUND ROAD/USH 18

MATCHLINE STA 429+50

MATCHLINE STA 436+50

430+00

431+00

432+00

433+00

434+00

435+00

436+00

SIGN

MH

INL

B

EXISTING R/W

N ROSEDALE DR

EXISTING R/W

N ELMRIDGE AVE

SLOPE INTERCEPT (TYP.)

LEGEND

SILT FENCE

INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)

INLET PROTECTION TYPE X

SLOPE INTERCEPT

TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 110	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 30

PLOT DATE : 1/25/2023 8:19 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

HI VIEW CT

VERNON PL

BLUEMOUND ROAD/USH 18

EXISTING R/W

PT: 438+91.12

MATCHLINE STA 436+50

MATCHLINE STA 443+50

437+00

438+00

439+00

440+00

441+00

442+00

443+00

N PARK BLVD

N BEAUMONT AVE

48+00

49+00

SLOPE INTERCEPT (TYP.)

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 111	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 31

PLOT DATE : 1/25/2023 8:20 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

EXISTING R/W

SIGN

SIGN

PI: 446+91.56

B

MH

INL

BLUEMOUND ROAD/USH 18

MATCHLINE STA 443+50

MATCHLINE STA 450+50

444+00

445+00

446+00

447+00

448+00

449+00

450+00

SIGN

SIGN

SIGN

SIGN

SIGN

B

B

B

MH

SIGN

SIGN

EXISTING R/W

SLOPE INTERCEPT (TYP.)

N EASTMOOR AVE

LEGEND

SILT FENCE

INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)

X

INLET PROTECTION TYPE X

SLOPE INTERCEPT

TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 112	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 32

PLOT DATE : 1/25/2023 8:20 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

FLORENCE DR

RIPRA

W

SIGN

EXISTING R/W

SIGN

SIGN

MH

MH

SIGN

SIGN

BLUEMOUND ROAD/USH 18

MATCHLINE STA 450+50

MATCHLINE STA 457+50

451+00

452+00

453+00

454+00

455+00

456+00

457+00

INL

MH

SIGN

B

SIGN

MH

INL

MH

SIGN

MH

MH

SIGN

EXISTING R/W

LEGEND

SILT FENCE

INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)

INLET PROTECTION TYPE X

SLOPE INTERCEPT

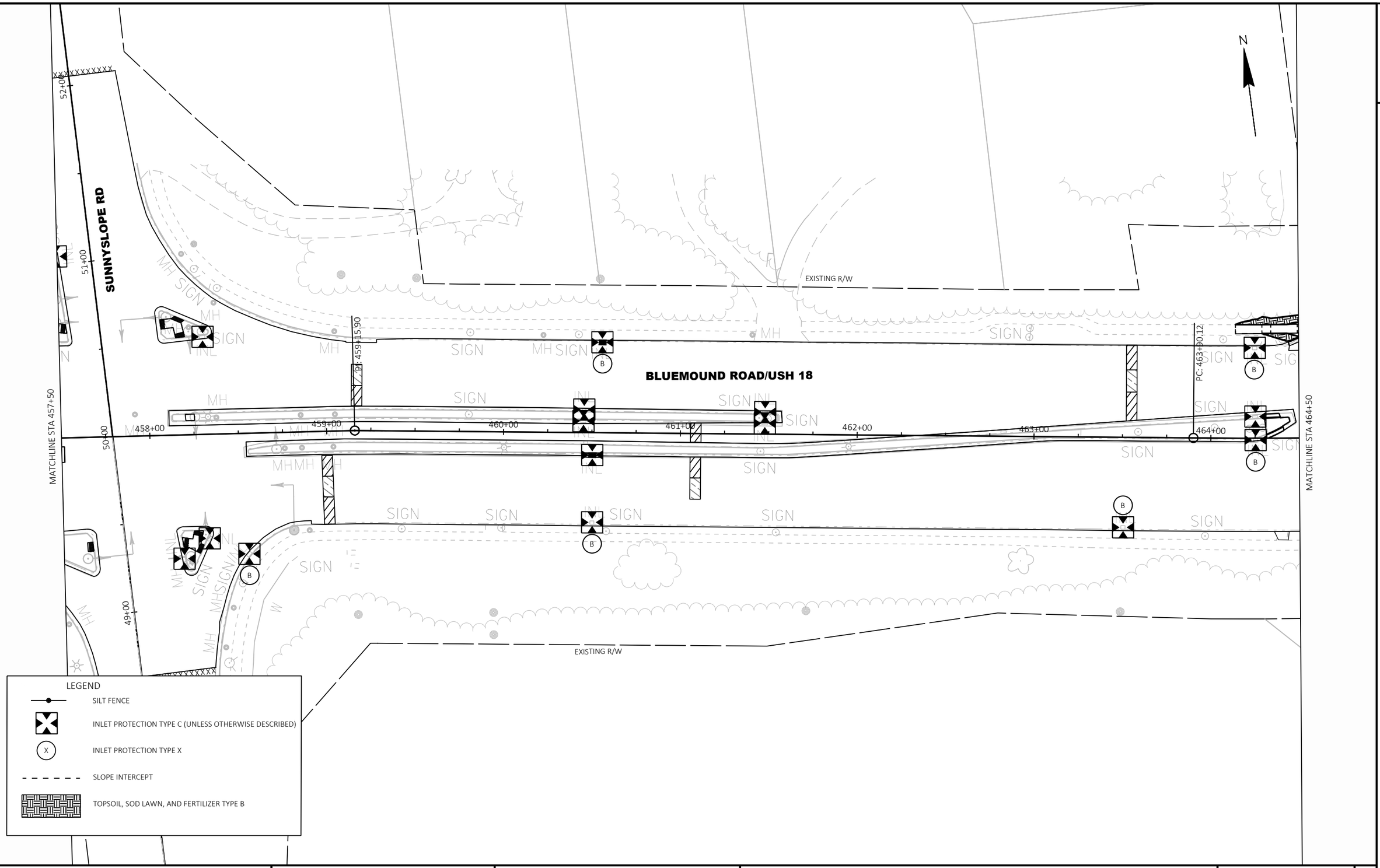
TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 113	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 33

PLOT DATE : 1/25/2023 8:20 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 114	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 34

PLOT DATE : 1/25/2023 8:21 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

MEADOW LN

SLOPE INTERCEPT (TYP.)

EXISTING R/W

BLUEMOUND ROAD/USH 18

PT: 469+26.19

MATCHLINE STA 464+50

MATCHLINE STA 471+50

465+00 466+00 467+00 468+00 469+00 470+00 471+00

SIGN MH INL B

BISHOP WAY

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 115	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 35
PLOT DATE : 1/25/2023 8:21 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

N

PARK CIR

SLOPE INTERCEPT (TYP.)

EXISTING R/W

BLUEMOUND ROAD/USH 18

MATCHLINE STA 471+50

MATCHLINE STA 478+50

472+00 473+00 474+00 475+00 476+00 477+00 478+00

BISHOP WAY

EXISTING R/W

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 116	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 36

PLOT DATE : 1/25/2023 8:21 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

ELM GROVE RD

BLUEMOUND ROAD/USH 18

MATCHLINE STA 478+50

MATCHLINE STA 485+50

479+00 480+00 481+00 482+00 483+00 484+00 485+00

52+00 51+00 50+00 49+00 48+00

PC: 482+07.46

EXISTING R/W

EXISTING R/W

SLOPE INTERCEPT (TYP.)

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 117	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 37

PLOT DATE : 1/25/2023 8:22 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

MATCHLINE STA 485+50

MATCHLINE STA 492+50

EXISTING R/W

PT: 488+26.76

BLUEMOUND ROAD/USH 18

486+00 487+00 488+00 489+00 490+00 491+00 492+00

EXISTING R/W

SLOPE INTERCEPT (TYP.)

N COLUMBIA BLVD

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 118	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 38

PLOT DATE : 1/25/2023 8:22 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 492+50

MATCHLINE STA 499+50

EXISTING R/W

BLUEMOUND ROAD/USH 18

493+00 494+00 495+00 496+00 497+00 498+00 499+00

EXISTING R/W

SLOPE INTERCEPT (TYP.)

COLUMBIA BLVD

UNDERWOOD CROSSING PKWY

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- X — INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 119	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 39

PLOT DATE : 1/25/2023 8:22 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

BLUEMOUND ROAD/USH 18

500+00 501+00 502+00 503+00 504+00 505+00 506+00

MATCHLINE STA 499+50

MATCHLINE STA 506+50

EXISTING R/W

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- (X) INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 120	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 40

PLOT DATE : 1/25/2023 8:23 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

124TH STREET

BLUEMOUND ROAD/USH 18

EXISTING R/W

EXISTING R/W

PROPOSED R/W

PC: 511+64.22

MATCHLINE STA 506+50

52+00

51+00

507+00

508+00

509+00

510+00

511+00

512+00

513+00

SLOPE INTERCEPT (TYP.)

LEGEND

- SILT FENCE
- INLET PROTECTION TYPE C (UNLESS OTHERWISE DESCRIBED)
- INLET PROTECTION TYPE X
- SLOPE INTERCEPT
- TOPSOIL, SOD LAWN, AND FERTILIZER TYPE B

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 121	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 41

PLOT DATE : 1/25/2023 8:23 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:50 FT

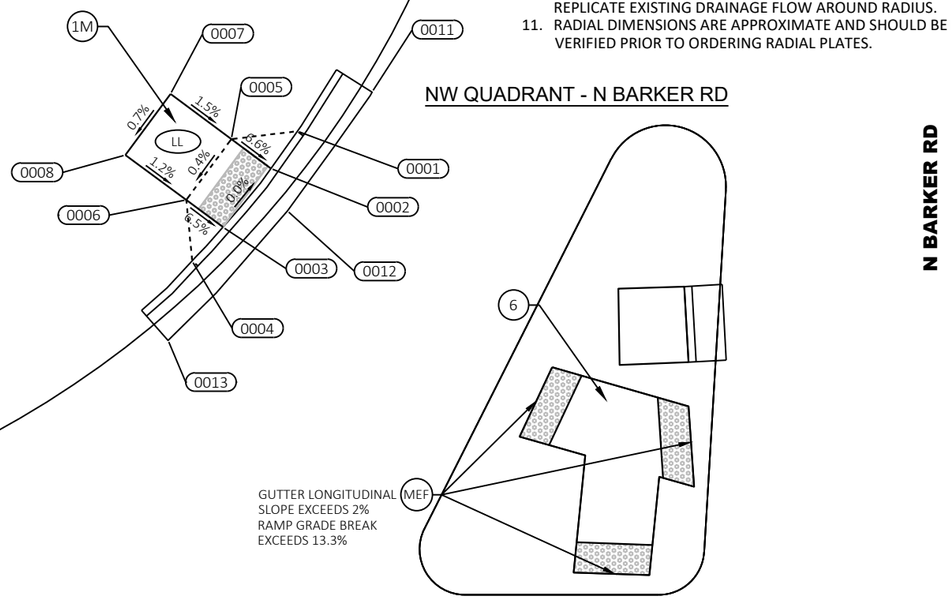
WISDOT/CADDS SHEET 42

2

NOTES

1. SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO FIELD VERIFY ELEVATION, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
3. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONDITIONS.
4. DASHED LINES SHOWN FOR PROPOSED SIDEWALKS ARE SUGGESTED JOINT LOCATIONS. THESE ARE FOR INFORMATION ONLY.
5. MATCH EXISTING SIDEWALK WIDTH AND CROSS SLOPE AT MATCH POINT.
6. STATIONING/OFFSETS ARE TO "USH 18" ALIGNMENT.
7. THIS DETAILS SUPPLEMENTS SDD CURB RAMPS TYPES 1 AND 1-A, TYPE 2 AND 3, TYPE 4A AND 4A1, TYPE 4B AND 4B1, AND TYPE 5, 6, 7A, 7B.
8. FLARES ARE GRADED WITH TOPSOIL, FERTILIZER TYPE B, AND SOD LAWN UNLESS ADJACENT TO CONCRETE TERRACE.
9. REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT OR SAWCUT AS DIRECTED BY THE ENGINEER.
10. GUTTER SLOPE SHALL BE 4.0% UNLESS NOTED OTHERWISE. REPLICATE EXISTING DRAINAGE FLOW AROUND RADIUS.
11. RADIAL DIMENSIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO ORDERING RADIAL PLATES.

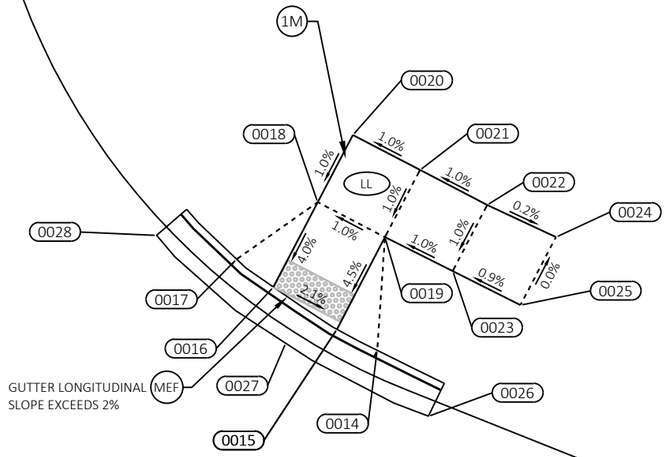
NW QUADRANT - N BARKER RD



N BARKER RD

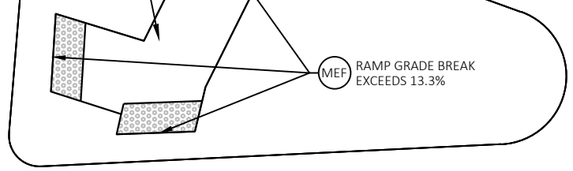
BARKER NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0001	241+92.03	97.49' LT	877.65	170205.47	700495.22
0002	241+90.31	95.04' LT	876.52	170203.02	700493.49
0003	241+87.16	91.14' LT	876.52	170199.14	700490.32
0004	241+85.15	88.90' LT	877.41	170196.91	700488.29
0005	241+87.69	96.95' LT	876.74	170204.95	700490.88
0006	241+84.74	92.92' LT	876.72	170200.93	700487.90
0007	241+83.65	99.91' LT	876.81	170207.93	700486.86
0008	241+80.70	95.87' LT	876.78	170203.91	700483.88
0011	241+96.96	100.11' LT	876.15	170208.06	700500.16
0012	241+91.41	92.24' LT	876.63	170200.22	700494.58
0013	241+83.58	83.66' LT	877.23	170191.68	700486.70

BLUEMOUND RD (USH 18)



N

NE QUADRANT - N BARKER RD



BARKER NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0014	243+47.05	96.69' LT	875.59	170203.85	700650.24
0015	243+44.39	98.07' LT	875.98	170205.24	700647.58
0016	243+40.19	100.82' LT	876.12	170208.01	700643.39
0017	243+37.75	102.65' LT	876.10	170209.85	700640.96
0018	243+43.08	106.44' LT	875.78	170213.62	700646.31
0019	243+47.52	104.16' LT	875.83	170211.31	700650.75
0020	243+45.37	110.89' LT	875.83	170218.05	700648.63
0021	243+49.81	108.60' LT	875.88	170215.74	700653.06
0022	243+54.26	106.31' LT	875.93	170213.43	700657.49
0023	243+52.00	101.94' LT	875.88	170209.07	700655.22
0024	243+58.81	104.22' LT	875.92	170211.32	700662.03
0025	243+56.49	99.72' LT	875.92	170206.83	700659.69
0026	243+50.45	92.36' LT	875.50	170199.50	700653.61
0027	243+41.01	97.13' LT	875.65	170204.32	700644.20
0028	243+32.45	104.20' LT	875.70	170211.43	700635.68

BLUEMOUND RD (USH 18)

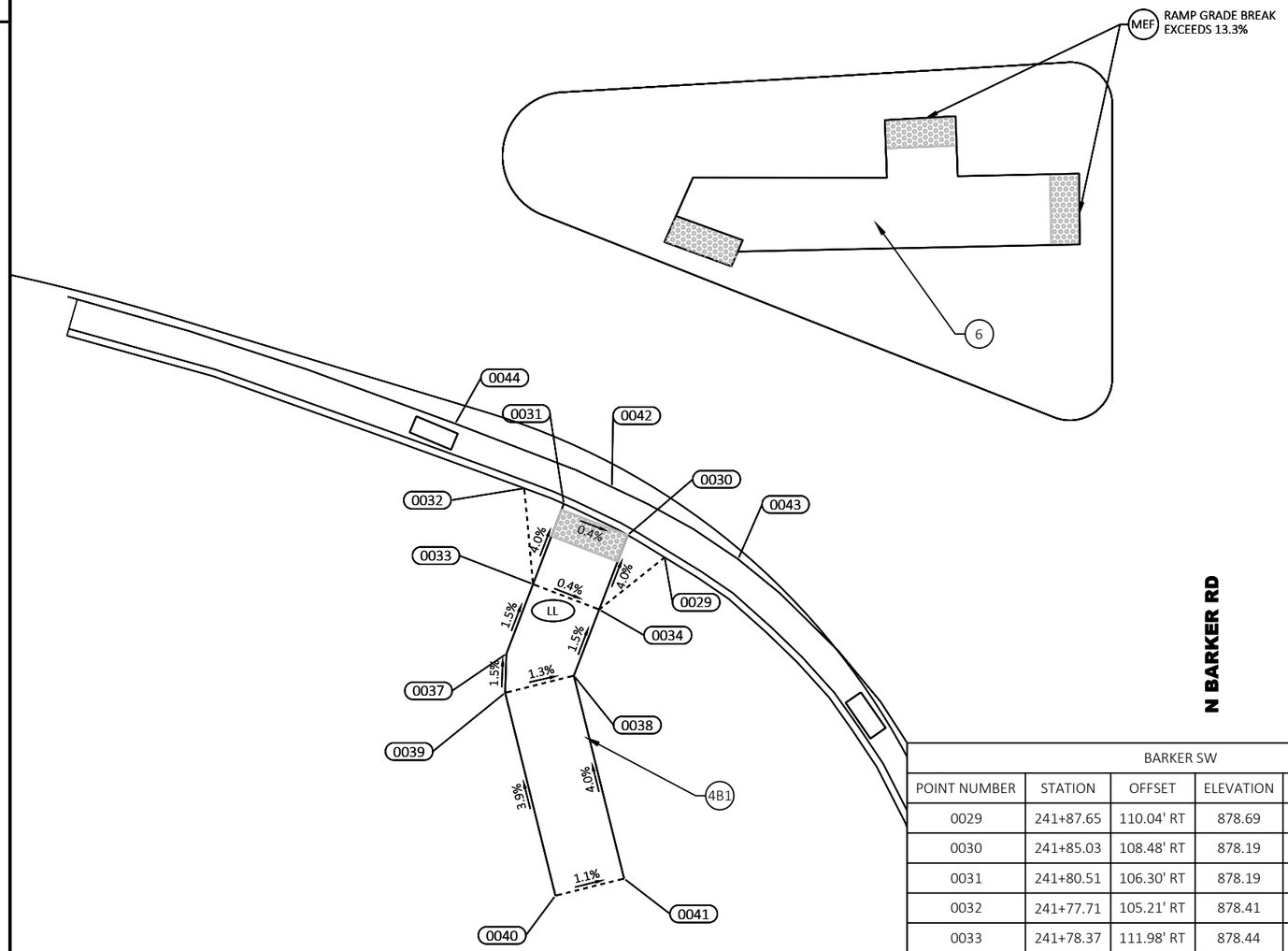
LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS- N BARKER RD	SHEET 122	E

2

BLUEMOUND RD (USH 18)



N BARKER RD

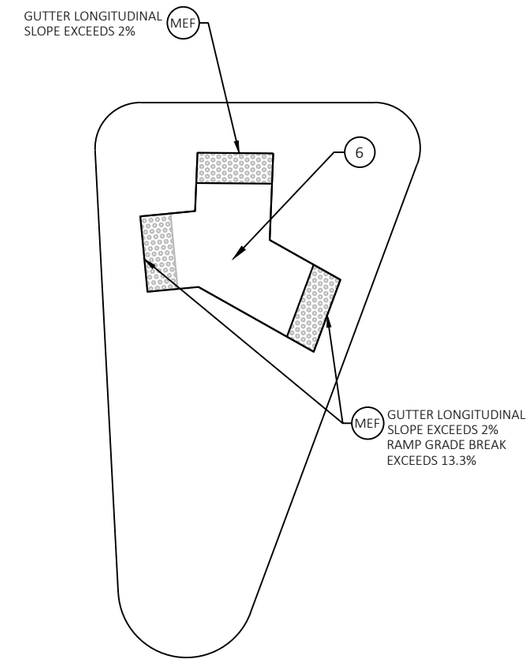
SW QUADRANT - N BARKER RD

BARKER SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0029	241+87.65	110.04' RT	878.69	169997.96	700489.74
0030	241+85.03	108.48' RT	878.19	169999.54	700487.13
0031	241+80.51	106.30' RT	878.19	170001.74	700482.62
0032	241+77.71	105.21' RT	878.41	170002.84	700479.83
0033	241+78.37	111.98' RT	878.44	169996.07	700480.45
0034	241+83.04	113.74' RT	878.42	169994.28	700485.12
0037	241+76.51	116.89' RT	878.52	169991.17	700478.57
0038	241+81.28	118.42' RT	878.49	169989.62	700483.33
0039	241+76.43	119.65' RT	878.56	169988.41	700478.48
0040	241+80.06	133.95' RT	879.13	169974.10	700482.03
0041	241+84.91	132.72' RT	879.08	169975.30	700486.88
0042	241+83.89	105.09' RT	878.35	170002.93	700486.01
0043	241+92.83	110.14' RT	878.44	169997.84	700494.93
0044	241+72.81	100.68' RT	878.36	170007.40	700474.95

N

2

BLUEMOUND RD (USH 18)



N BARKER RD

SE QUADRANT - N BARKER RD

LEGEND

	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
1AM	CURB RAMP TYPE 1A - MODIFIED
2	CURB RAMP TYPE 2
3	CURB RAMP TYPE 3
3M	CURB RAMP TYPE 3 - MODIFIED
4A1	CURB RAMP TYPE 4A1
4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER

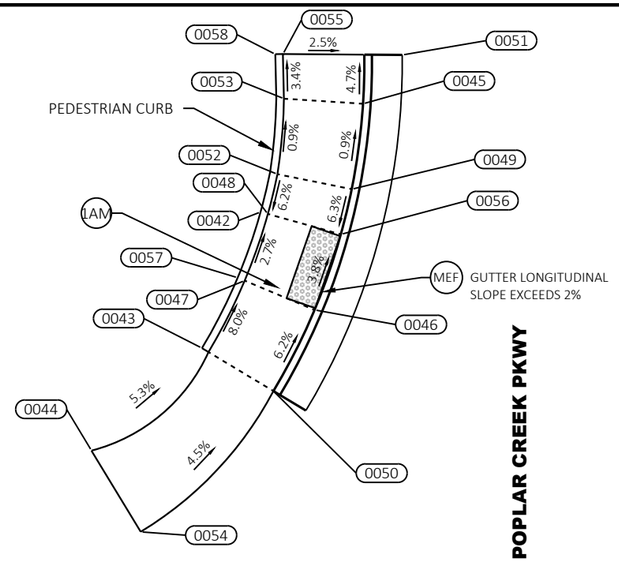
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS- N BARKER RD	SHEET 123	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Barker-sw

PLOT DATE : 3/14/2023 10:06 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

2



NW QUADRANT - POPLAR CREEK PKWY

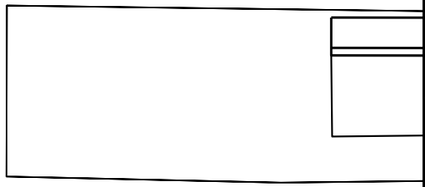
BLUEMOUND RD (USH 18)

POPLAR CREEK PKWY NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0042	252+81.29	93.79' LT	842.76	170196.01	701584.44
0043	252+77.47	84.78' LT	842.35	170187.02	701580.57
0044	252+70.21	77.98' LT	843.35	170180.26	701573.28
0045	252+88.01	100.96' LT	842.30	170203.15	701591.20
0046	252+84.88	87.34' LT	842.27	170189.54	701588.00
0047	252+80.26	89.25' LT	842.35	170191.48	701583.39
0048	252+81.77	93.66' LT	842.26	170195.87	701584.92
0049	252+87.29	95.32' LT	842.35	170197.51	701590.45
0050	252+82.20	81.97' LT	842.73	170184.19	701585.29
0051	252+90.57	104.20' LT	841.65	170206.37	701593.79
0052	252+82.38	96.29' LT	842.43	170198.50	701585.55
0053	252+82.79	101.27' LT	842.38	170203.48	701585.98
0054	252+73.49	72.64' LT	843.31	170174.90	701576.53
0055	252+82.70	104.21' LT	842.28	170206.43	701585.92
0056	252+86.59	92.34' LT	842.16	170194.53	701589.74
0057	252+79.80	89.44' LT	842.35	170191.67	701582.93
0058	252+82.20	104.20' LT	842.28	170206.42	701585.42

LEGEND

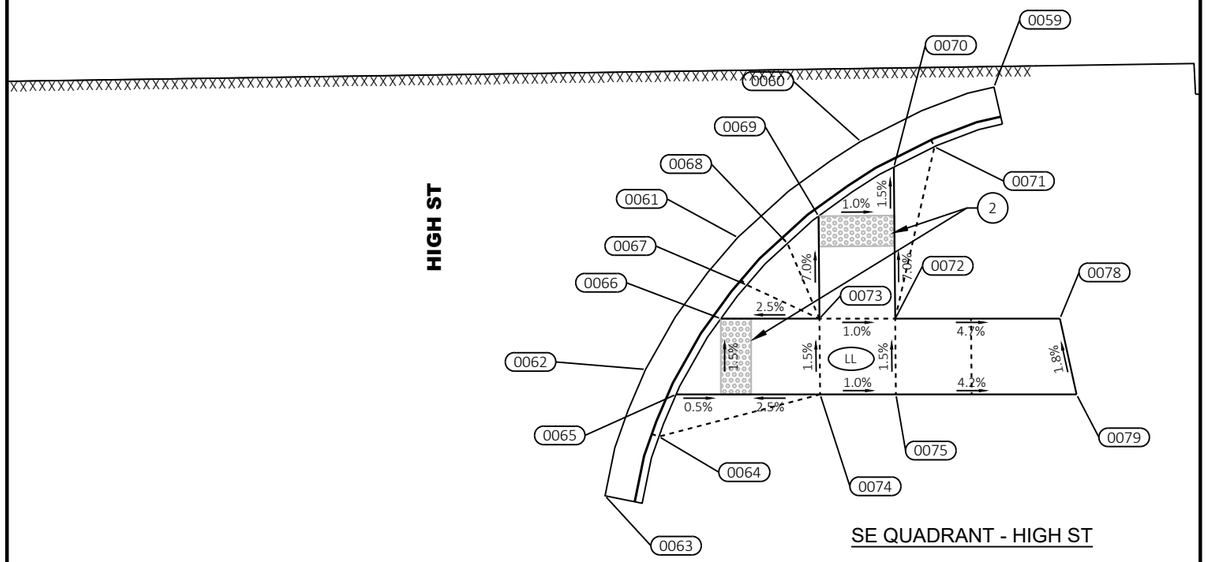
- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

HIGH ST SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0059	253+75.58	67.12' RT	839.31	170034.60	701677.88
0060	253+66.80	70.75' RT	839.82	170031.02	701669.08
0061	253+58.73	77.13' RT	840.16	170024.68	701660.98
0062	253+52.69	85.87' RT	840.42	170015.98	701654.90
0063	253+50.06	94.22' RT	840.37	170007.63	701652.22
0064	253+53.60	90.29' RT	840.77	170011.55	701655.78
0065	253+54.71	87.51' RT	840.43	170014.33	701656.91
0066	253+57.64	82.49' RT	840.34	170019.33	701659.87
0067	253+59.34	80.27' RT	840.70	170021.54	701661.58
0068	253+62.01	77.50' RT	840.15	170024.29	701664.26
0069	253+64.05	75.70' RT	840.03	170026.09	701666.31
0070	253+69.00	72.44' RT	839.76	170029.32	701671.28
0071	253+71.68	71.07' RT	840.09	170030.67	701673.96
0072	253+69.15	82.43' RT	840.45	170019.33	701671.37
0073	253+64.15	82.46' RT	840.50	170019.33	701666.37
0074	253+64.22	87.46' RT	840.58	170014.33	701666.41
0075	253+69.22	87.43' RT	840.53	170014.33	701671.41
0078	253+80.01	82.37' RT	839.94	170019.33	701682.24
0079	253+81.14	87.37' RT	840.03	170014.33	701683.34



N

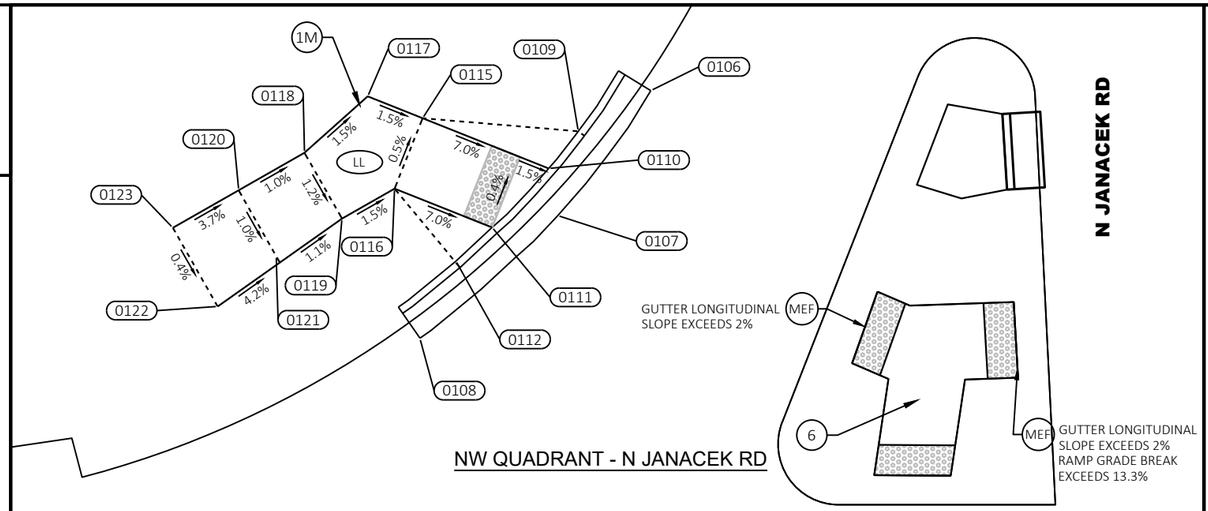
BLUEMOUND RD (USH 18)



SE QUADRANT - HIGH ST

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - POPLAR CREEK PKWY & HIGH ST	SHEET 124	E

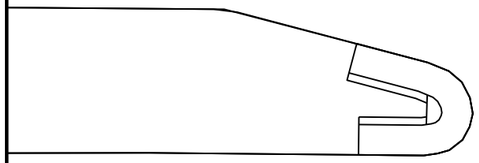
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Jenn-nw-se
PLOT DATE : 3/14/2023 10:07 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



NW QUADRANT - N JANACEK RD

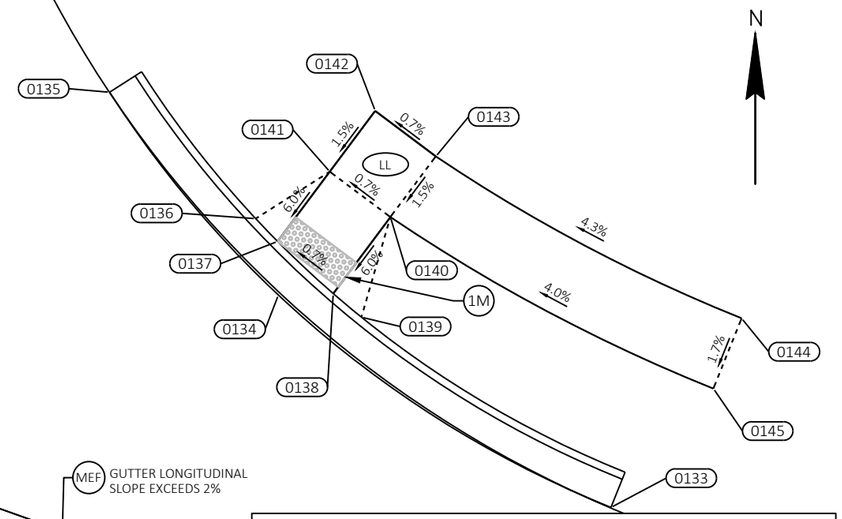
BLUEMOUND RD (USH 18)

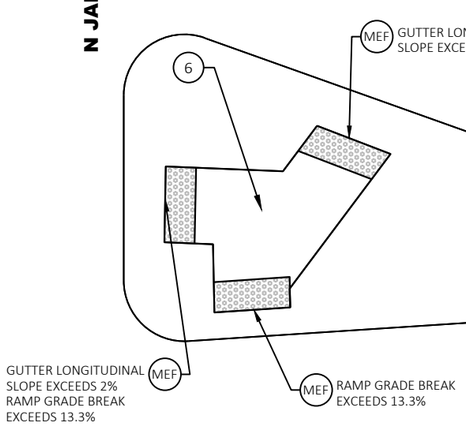
JANACEK NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0106	269+10.80	89.61' LT	836.92	170183.22	703213.91
0107	269+04.70	81.33' LT	837.15	170174.98	703207.77
0108	268+95.65	73.20' LT	837.39	170166.89	703198.68
0109	269+06.03	86.91' LT	837.50	170180.54	703209.13
0110	269+04.09	84.44' LT	837.14	170178.09	703207.17
0111	269+00.38	80.53' LT	837.19	170174.20	703203.44
0112	268+98.00	78.30' LT	837.75	170171.98	703201.05
0113	268+99.11	86.40' LT	837.40	170180.07	703202.20
0114	268+97.28	81.74' LT	837.43	170175.43	703200.35
0115	268+95.75	87.71' LT	837.66	170181.40	703198.85
0116	268+93.93	83.06' LT	837.68	170176.76	703197.00
0117	268+92.12	89.14' LT	837.71	170182.84	703195.23
0118	268+87.97	85.39' LT	837.80	170179.12	703191.06
0119	268+90.47	81.06' LT	837.74	170174.78	703193.54
0120	268+83.64	82.89' LT	837.85	170176.65	703186.72
0121	268+86.14	78.56' LT	837.80	170172.30	703189.19
0122	268+82.30	75.22' LT	838.01	170168.98	703185.33
0123	268+79.31	80.39' LT	838.03	170174.17	703182.37



LEGEND

	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
1AM	CURB RAMP TYPE 1A - MODIFIED
2	CURB RAMP TYPE 2
3	CURB RAMP TYPE 3
3M	CURB RAMP TYPE 3 - MODIFIED
4A1	CURB RAMP TYPE 4A1
4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER





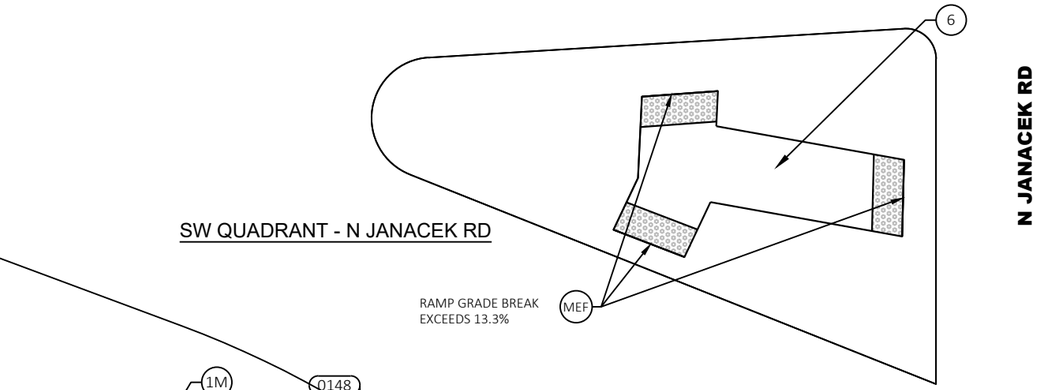
BLUEMOUND RD (USH 18)

JANACEK NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0133	270+32.59	80.88' LT	838.15	170173.85	703335.65
0134	270+10.57	94.78' LT	837.60	170187.86	703313.70
0135	269+99.37	108.10' LT	837.26	170201.24	703302.57
0136	270+09.04	99.81' LT	837.94	170192.90	703312.21
0137	270+10.50	98.31' LT	837.55	170191.40	703313.66
0138	270+14.19	94.89' LT	837.55	170187.96	703317.33
0139	270+16.06	93.34' LT	838.12	170186.40	703319.19
0140	270+17.93	99.96' LT	837.93	170193.01	703321.10
0141	270+13.92	102.94' LT	837.90	170196.00	703317.10
0142	270+16.89	106.96' LT	837.97	170200.01	703320.09
0143	270+20.91	103.98' LT	838.01	170197.01	703324.09
0144	270+41.14	93.41' LT	838.98	170186.33	703344.27
0145	270+39.30	88.76' LT	838.89	170181.69	703342.41

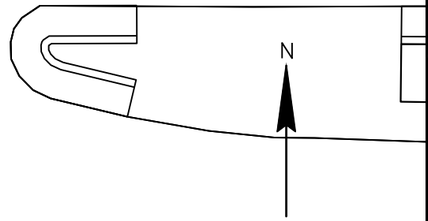
NE QUADRANT - N JANACEK RD

JANACEK SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0146	269+15.95	102.22' RT	836.26	169991.36	703218.05
0147	269+08.16	94.00' RT	836.38	169999.62	703210.31
0148	268+99.75	87.68' RT	836.48	170006.00	703201.92
0149	269+10.84	100.05' RT	836.64	169993.56	703212.94
0150	269+08.67	97.78' RT	836.29	169995.85	703210.79
0151	269+04.81	94.44' RT	836.29	169999.21	703206.95
0152	269+02.43	92.53' RT	836.83	170001.13	703204.58
0153	269+06.91	100.94' RT	836.54	169992.70	703209.01
0154	269+02.62	98.35' RT	836.61	169995.31	703204.74
0155	269+04.07	106.03' RT	836.63	169987.62	703206.14
0156	268+99.70	103.59' RT	836.71	169990.08	703201.79
0157	268+98.34	95.76' RT	836.76	169997.92	703200.47
0158	268+95.42	101.01' RT	836.81	169992.69	703197.52
0159	268+94.06	93.18' RT	836.96	170000.53	703196.21
0160	268+91.14	98.42' RT	836.93	169995.30	703193.25
0161	268+84.28	88.42' RT	837.45	170005.33	703186.45
0162	268+81.93	94.14' RT	837.23	169999.62	703184.07

BLUEMOUND RD (USH 18)



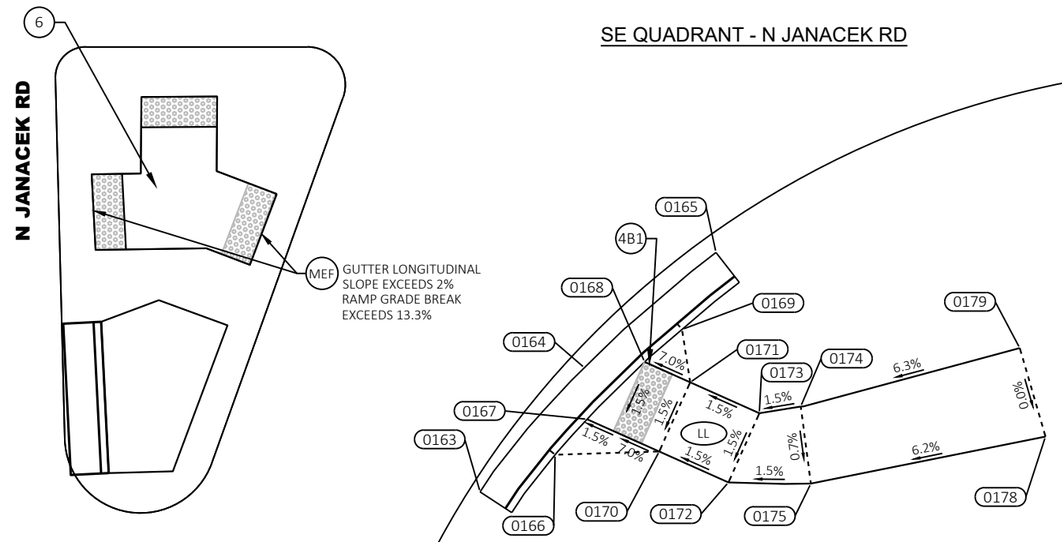
JANACEK SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0163	270+07.23	90.38' RT	837.69	170002.72	703309.39
0164	270+14.07	82.16' RT	838.06	170010.91	703316.28
0165	270+22.71	74.51' RT	838.36	170018.52	703324.95
0166	270+12.17	87.91' RT	838.23	170005.17	703314.35
0167	270+14.27	85.55' RT	837.92	170007.51	703316.46
0168	270+18.05	81.75' RT	838.03	170011.29	703320.25
0169	270+20.50	79.60' RT	838.69	170013.44	703322.72
0170	270+19.04	87.66' RT	838.18	170005.39	703321.21
0171	270+21.06	83.08' RT	838.26	170009.95	703323.25
0172	270+23.61	89.67' RT	838.26	170003.34	703325.78
0173	270+25.63	85.10' RT	838.33	170007.91	703327.82
0174	270+28.36	84.64' RT	838.37	170008.35	703330.55
0175	270+29.06	89.72' RT	838.34	170003.27	703331.22
0178	270+44.52	86.54' RT	839.32	170006.37	703346.70
0179	270+42.80	80.71' RT	839.32	170012.21	703345.01



LEGEND

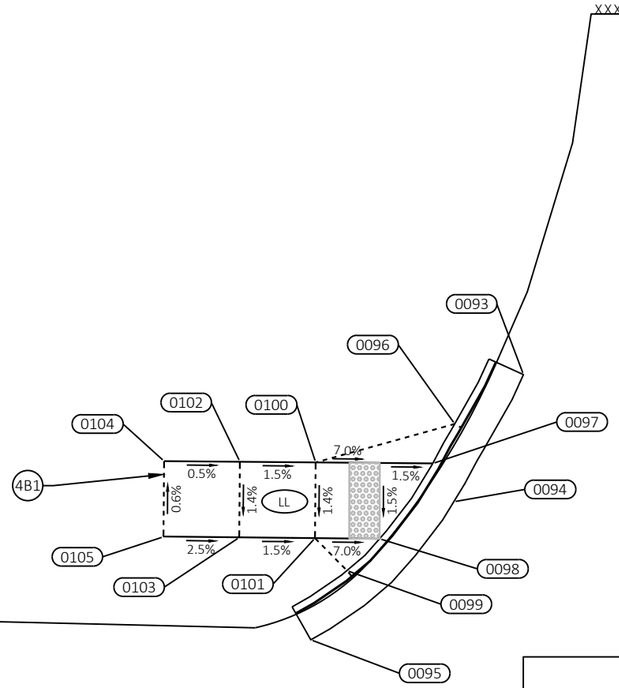
- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

BLUEMOUND RD (USH 18)

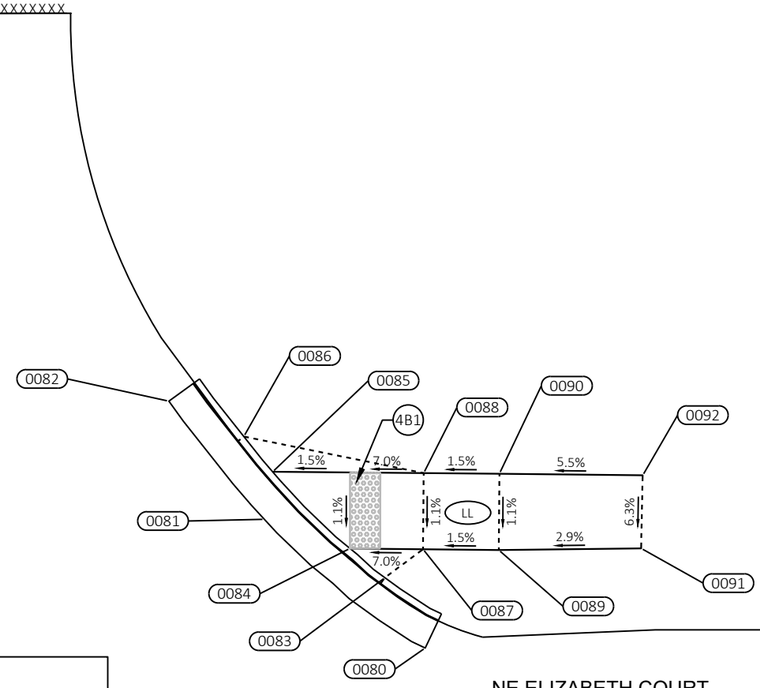


PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N JANACEK RD	SHEET 126	E

2



NW ELIZABETH COURT



NE ELIZABETH COURT

ELIZABETH COURT

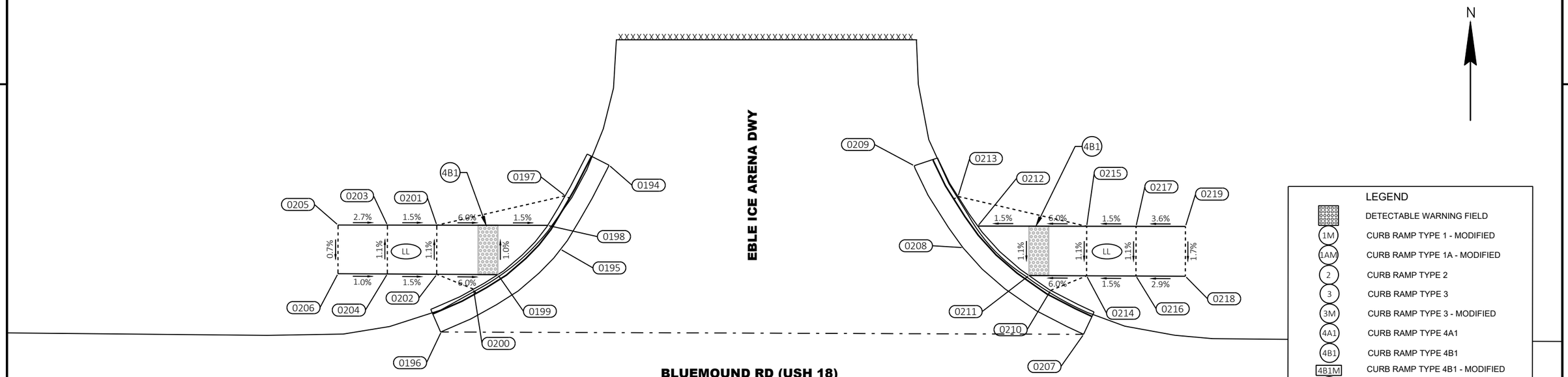
N

LEGEND

	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
1AM	CURB RAMP TYPE 1A - MODIFIED
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3M	CURB RAMP TYPE 3 - MODIFIED
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4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER

ELIZABETH COURT NW & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0080	262+04.73	63.01' LT	831.00	170160.35	702507.71
0081	261+94.07	71.45' LT	830.94	170168.85	702497.10
0082	261+87.73	79.21' LT	830.92	170176.64	702490.79
0083	262+02.04	67.64' LT	831.37	170164.99	702505.05
0084	261+99.73	69.55' LT	831.01	170166.92	702502.75
0085	261+94.60	74.59' LT	830.98	170171.98	702497.64
0086	261+92.69	76.90' LT	831.43	170174.31	702495.74
0087	262+04.55	69.53' LT	831.35	170166.87	702507.56
0088	262+04.57	74.55' LT	831.40	170171.90	702507.61
0089	262+09.55	69.50' LT	831.42	170166.82	702512.56
0090	262+09.57	74.54' LT	831.48	170171.85	702512.61
0091	262+18.94	69.66' LT	831.69	170166.93	702521.95
0092	262+19.02	74.48' LT	832.00	170171.75	702522.06
0093	261+45.65	80.74' LT	830.23	170178.39	702448.73
0094	261+41.10	72.32' LT	830.36	170170.00	702444.13
0095	261+31.72	63.17' LT	830.38	170160.90	702434.70
0096	261+41.13	77.46' LT	830.73	170175.14	702444.19
0097	261+39.70	74.85' LT	830.33	170172.53	702442.74
0098	261+36.22	69.86' LT	830.31	170167.56	702439.24
0099	261+34.08	67.75' LT	830.80	170165.46	702437.08

ELIZABETH COURT NW & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0100	261+31.97	74.87' LT	830.68	170172.60	702435.02
0101	261+31.95	69.88' LT	830.61	170167.60	702434.97
0102	261+26.97	74.89' LT	830.75	170172.64	702430.02
0103	261+26.95	69.90' LT	830.68	170167.65	702429.97
0104	261+21.97	74.91' LT	830.78	170172.69	702425.02
0105	261+21.95	69.91' LT	830.81	170167.69	702424.97



NW - EBLE ICE ARENA DWY

NE - EBLE ICE ARENA DWY

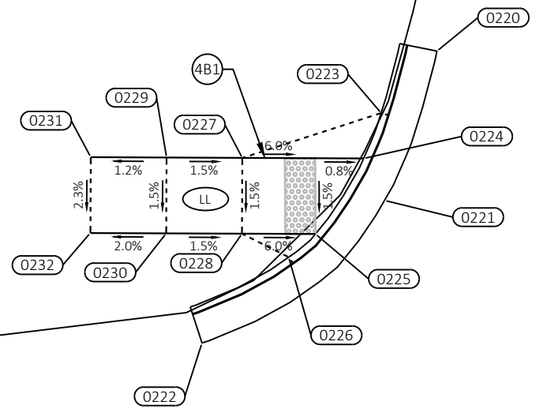
LEGEND

	DETECTABLE WARNING FIELD
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1AM	CURB RAMP TYPE 1A - MODIFIED
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4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER

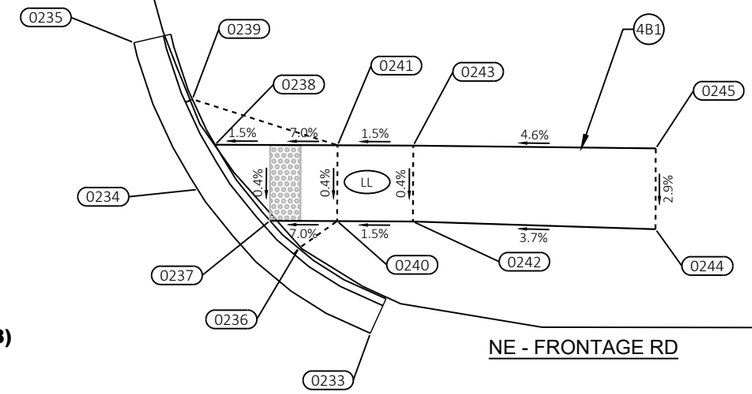
EBLE ICE ARENA DWY NW & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0194	277+29.29	81.56' LT	842.72	170170.84	704032.34
0195	277+24.42	73.01' LT	842.83	170162.32	704027.43
0196	277+12.38	64.59' LT	842.97	170153.97	704015.35
0197	277+24.85	78.44' LT	843.18	170167.75	704027.90
0198	277+23.10	75.43' LT	842.79	170164.75	704026.13
0199	277+18.08	70.41' LT	842.92	170159.76	704021.08
0200	277+15.63	68.93' LT	843.30	170158.29	704018.62
0201	277+11.87	75.39' LT	843.24	170164.77	704014.90
0202	277+11.89	70.39' LT	843.29	170159.77	704014.89
0203	277+06.87	75.37' LT	843.31	170164.78	704009.90
0204	277+06.89	70.42' LT	843.37	170159.83	704009.89
0205	277+01.87	75.35' LT	843.45	170164.78	704004.90
0206	277+01.89	70.43' LT	843.42	170159.86	704004.89

EBLE ICE ARENA DWY NW & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0207	277+77.42	64.68' LT	843.44	170153.71	704080.39
0208	277+65.15	73.40' LT	843.20	170162.49	704068.17
0209	277+60.18	81.67' LT	842.92	170170.79	704063.24
0210	277+74.07	69.11' LT	843.76	170158.16	704077.06
0211	277+71.86	70.61' LT	843.26	170159.67	704074.86
0212	277+66.65	75.59' LT	843.23	170164.68	704069.68
0213	277+64.63	78.58' LT	843.94	170167.68	704067.67
0214	277+77.70	70.61' LT	843.61	170159.64	704080.69
0215	277+77.68	75.63' LT	843.66	170164.66	704080.70
0216	277+82.70	70.61' LT	843.68	170159.62	704085.69
0217	277+82.68	75.65' LT	843.73	170164.65	704085.70
0218	277+87.70	70.62' LT	843.83	170159.59	704090.69
0219	277+87.68	75.67' LT	843.91	170164.65	704090.70

2



FRONTAGE ROAD



BLUEMOUND RD (USH 18)

NE - FRONTAGE RD

N

NW - FRONTAGE RD

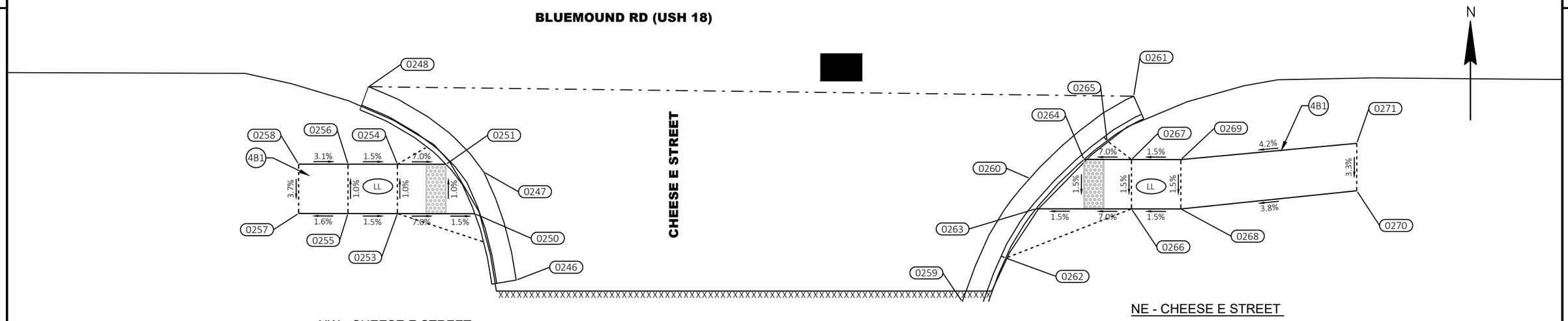
LEGEND

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- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

FRONTAGE RD NW & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0220	284+52.21	83.17' LT	852.25	170168.64	704755.27
0221	284+48.81	73.30' LT	851.96	170158.79	704751.81
0222	284+36.81	63.83' LT	851.83	170149.38	704739.77
0223	284+48.55	79.07' LT	852.41	170164.55	704751.59
0224	284+47.42	76.07' LT	851.94	170161.56	704750.44
0225	284+44.27	71.06' LT	851.89	170156.57	704747.26
0226	284+42.50	69.53' LT	851.95	170155.04	704745.49
0227	284+39.41	76.05' LT	852.25	170161.59	704742.43
0228	284+39.41	71.06' LT	852.18	170156.59	704742.40
0229	284+34.41	76.05' LT	852.33	170161.61	704737.43
0230	284+34.41	71.06' LT	852.26	170156.62	704737.40
0231	284+29.41	76.05' LT	852.27	170161.64	704732.43
0232	284+29.41	71.06' LT	852.15	170156.64	704732.40
0233	285+08.64	63.73' LT	853.25	170148.90	704811.59

FRONTAGE RD NW & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0234	284+97.19	73.16' LT	853.18	170158.39	704800.20
0235	284+92.94	82.82' LT	853.18	170168.07	704795.99
0236	285+03.89	69.31' LT	853.58	170154.50	704806.87
0237	285+01.97	71.12' LT	853.24	170156.32	704804.97
0238	284+98.33	76.12' LT	853.21	170161.34	704801.34
0239	284+96.81	79.11' LT	853.66	170164.35	704799.84
0240	285+06.40	71.12' LT	853.55	170156.30	704809.40
0241	285+06.41	76.12' LT	853.57	170161.30	704809.42
0242	285+11.40	71.12' LT	853.63	170156.28	704814.40
0243	285+11.41	76.13' LT	853.65	170161.29	704814.42
0244	285+27.42	70.70' LT	854.23	170155.77	704830.41
0245	285+27.40	76.03' LT	854.38	170161.10	704830.42

2



NW - CHEESE E STREET

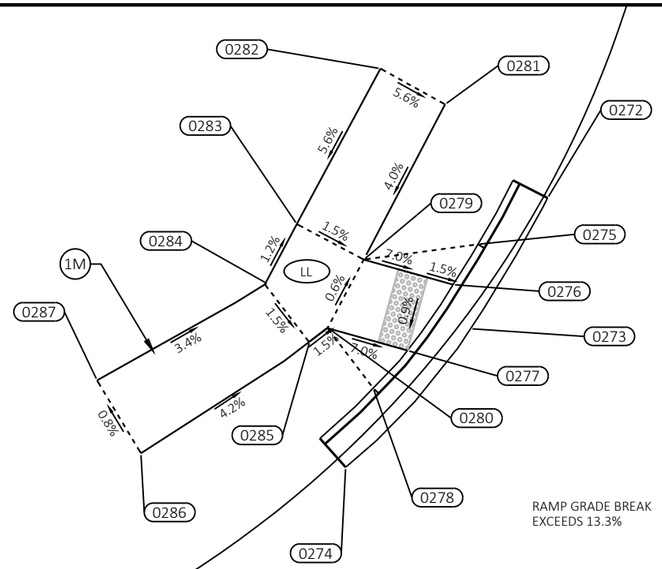
NE - CHEESE E STREET

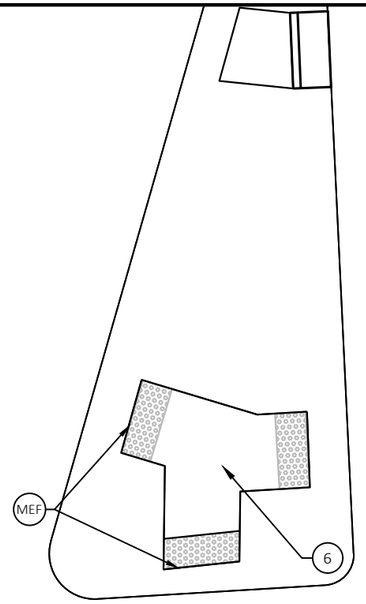
LEGEND

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- LL — LEVEL LANDING
- 0000 — POINT NUMBER

CHEESE E STREET NW & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0246	284+66.89	84.95' RT	851.85	170000.44	704769.06
0247	284+63.56	74.03' RT	852.00	170011.38	704765.79
0248	284+51.85	65.43' RT	852.01	170020.04	704754.12
0250	284+62.65	78.24' RT	851.99	170007.17	704764.86
0251	284+59.71	73.26' RT	851.98	170012.17	704761.94
0253	284+54.82	78.27' RT	852.37	170007.18	704757.02
0254	284+54.80	73.27' RT	852.33	170012.18	704757.03
0255	284+49.82	78.29' RT	852.45	170007.19	704752.02
0256	284+49.80	73.29' RT	852.40	170012.19	704752.03
0257	284+44.82	78.32' RT	852.37	170007.19	704747.02
0258	284+44.80	73.32' RT	852.56	170012.19	704747.03
0259	285+12.07	86.90' RT	852.55	169998.25	704814.22
0260	285+18.84	74.37' RT	853.21	170010.75	704821.07
0261	285+29.32	65.99' RT	853.50	170019.07	704831.59

CHEESE E STREET NW & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0262	285+16.45	82.46' RT	853.66	170002.67	704818.63
0263	285+19.49	77.44' RT	853.21	170007.67	704821.70
0264	285+24.31	72.42' RT	853.36	170012.66	704826.55
0265	285+26.64	70.53' RT	853.84	170014.55	704828.88
0266	285+29.14	77.40' RT	853.62	170007.66	704831.35
0267	285+29.12	72.40' RT	853.69	170012.66	704831.36
0268	285+34.14	77.38' RT	853.69	170007.65	704836.35
0269	285+34.12	72.38' RT	853.77	170012.65	704836.36
0270	285+51.95	75.45' RT	854.37	170009.50	704854.16
0271	285+51.92	70.64' RT	854.52	170014.30	704854.16





N BROOKFIELD RD

NW QUADRANT - N BROOKFIELD RD

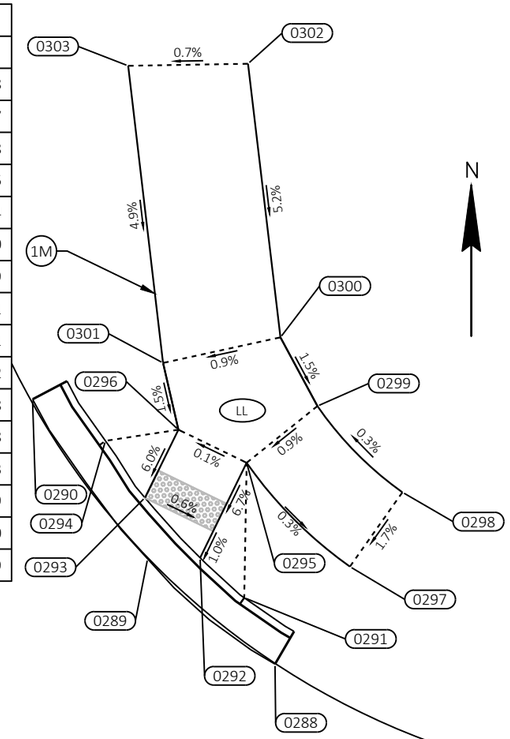
BROOKFIELD NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0272	295+75.60	92.61' LT	854.90	170200.01	705868.86
0273	295+69.75	84.49' LT	854.93	170191.39	705863.78
0274	295+60.72	76.13' LT	855.01	170182.25	705855.54
0275	295+70.74	89.98' LT	855.19	170196.96	705864.26
0276	295+68.87	87.49' LT	854.82	170194.30	705862.62
0277	295+65.47	83.43' LT	854.81	170189.95	705859.61
0278	295+63.00	81.16' LT	855.25	170187.47	705857.35
0279	295+63.15	89.67' LT	855.16	170195.95	705856.73
0280	295+60.37	85.41' LT	855.19	170191.46	705854.35
0281	295+69.42	99.38' LT	855.61	170206.19	705862.09
0282	295+65.39	102.12' LT	855.89	170208.55	705857.83
0283	295+58.96	92.40' LT	855.23	170198.29	705852.31
0284	295+56.62	88.69' LT	855.28	170194.38	705850.32
0285	295+59.10	84.61' LT	855.21	170190.55	705853.16
0286	295+47.34	78.27' LT	855.76	170183.17	705842.02
0287	295+44.90	83.33' LT	855.72	170187.98	705839.13

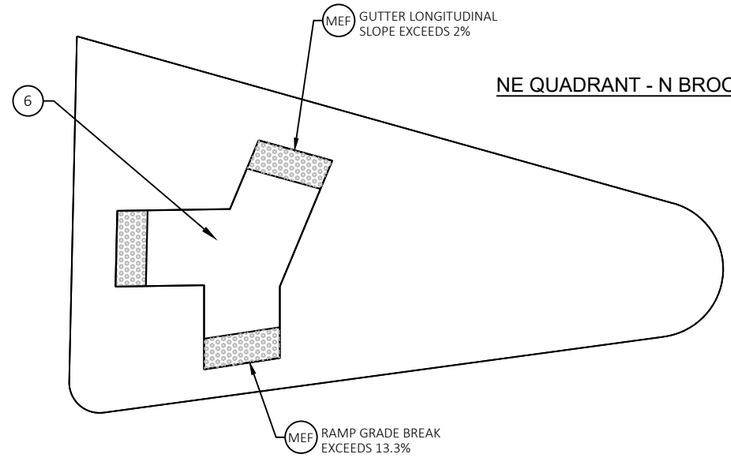
LEGEND

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- LL — LEVEL LANDING
- 0000 — POINT NUMBER

BLUEMOUND RD (USH 18)

BROOKFIELD NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0288	296+88.30	92.81' LT	855.34	170210.45	705981.08
0289	296+80.56	100.48' LT	855.64	170217.39	705972.67
0290	296+73.95	111.66' LT	855.80	170227.92	705965.08
0291	296+86.67	97.35' LT	855.99	170214.82	705979.05
0292	296+84.02	100.24' LT	855.58	170217.46	705976.14
0293	296+80.75	104.51' LT	855.63	170221.42	705972.50
0294	296+78.49	108.49' LT	856.09	170225.18	705969.89
0295	296+87.64	106.20' LT	855.93	170223.73	705979.21
0296	296+83.36	108.78' LT	855.93	170225.91	705974.71
0297	296+93.81	98.76' LT	855.91	170216.88	705986.02
0298	296+97.70	103.33' LT	856.01	170221.78	705989.48
0299	296+92.63	109.50' LT	855.99	170227.47	705983.88
0300	296+90.61	114.24' LT	856.07	170232.00	705981.43
0301	296+82.75	113.27' LT	856.00	170230.32	705973.69
0302	296+90.12	132.41' LT	857.01	170250.05	705979.30
0303	296+82.23	133.00' LT	856.96	170249.92	705971.39





N BROOKFIELD RD

NE QUADRANT - N BROOKFIELD RD

BLUEMOUND RD (USH 18)

2

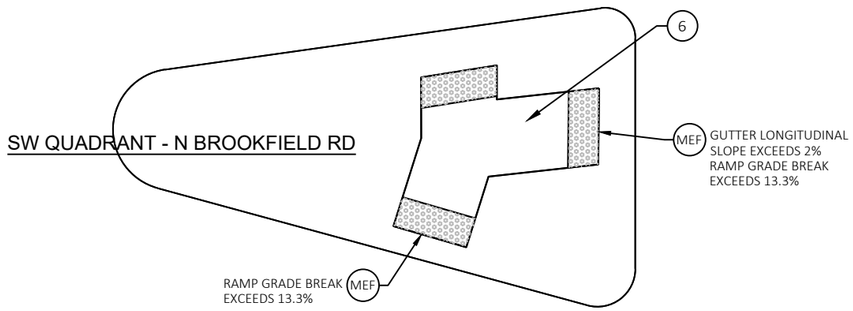
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N BROOKFIELD RD	SHEET 131	E

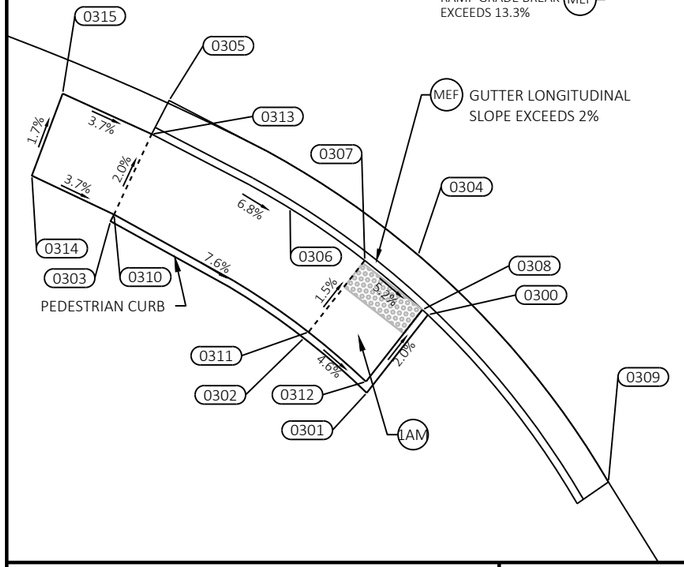
2

BROOKFIELD SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0300	295+58.77	98.18' RT	853.68	170008.49	705869.43
0301	295+54.28	102.94' RT	854.27	170003.34	705865.39
0302	295+50.47	98.96' RT	854.50	170006.95	705861.24
0303	295+38.47	90.13' RT	855.13	170014.66	705848.48
0304	295+58.48	94.19' RT	853.85	170012.43	705868.78
0305	295+43.04	82.54' RT	854.61	170022.63	705852.35
0306	295+50.34	90.36' RT	854.65	170015.51	705860.32
0307	295+54.94	94.23' RT	853.91	170012.07	705865.26
0308	295+58.43	97.81' RT	853.65	170008.82	705869.06
0309	295+69.62	110.25' RT	852.87	169997.45	705881.33
0310	295+38.73	89.71' RT	855.13	170015.10	705848.71
0311	295+50.82	98.59' RT	854.00	170007.35	705861.55
0312	295+54.30	102.19' RT	853.77	170004.08	705865.34
0313	295+41.70	84.65' RT	855.01	170020.41	705851.20
0314	295+33.57	86.65' RT	855.35	170017.67	705843.29
0315	295+36.08	81.45' RT	855.25	170023.09	705845.32

BLUEMOUND RD (USH 18)

SW QUADRANT - N BROOKFIELD RD





LEGEND	
	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
1AM	CURB RAMP TYPE 1A - MODIFIED
2	CURB RAMP TYPE 2
3	CURB RAMP TYPE 3
3M	CURB RAMP TYPE 3 - MODIFIED
4A1	CURB RAMP TYPE 4A1
4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER

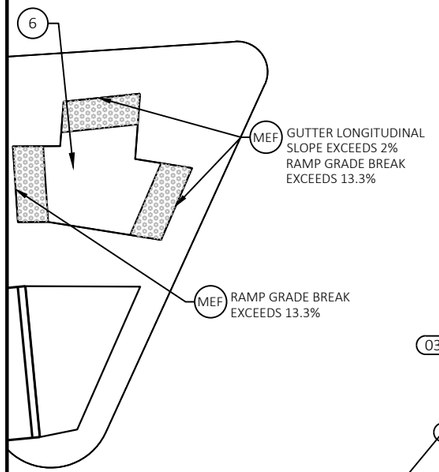
N BROOKFIELD RD

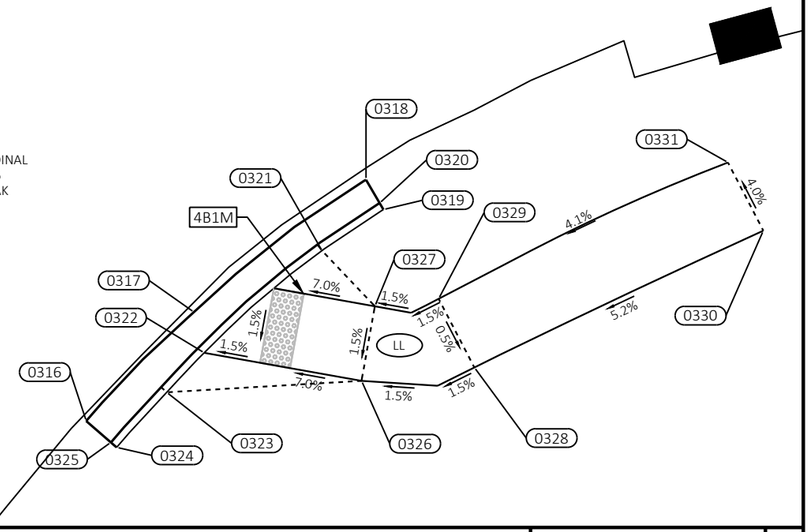
N BROOKFIELD RD

BROOKFIELD SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0316	296+68.27	86.14' RT	854.12	170030.42	705977.38
0317	296+76.00	79.63' RT	854.48	170037.60	705984.49
0318	296+88.10	71.97' RT	854.88	170046.33	705995.84
0319	296+89.07	74.03' RT	855.27	170044.37	705997.00
0320	296+88.86	73.58' RT	854.87	170044.80	705996.74
0321	296+84.78	76.36' RT	855.19	170041.66	705992.94
0322	296+76.43	82.37' RT	854.44	170034.92	705985.17
0323	296+73.73	84.74' RT	854.66	170032.31	705982.69
0324	296+70.11	88.06' RT	854.47	170028.68	705979.39
0325	296+69.76	87.70' RT	853.92	170029.00	705979.01
0326	296+86.60	85.15' RT	854.98	170033.07	705995.55
0327	296+87.92	80.33' RT	855.05	170037.99	705996.43
0328	296+94.10	84.95' RT	855.09	170033.95	706003.00
0329	296+92.16	80.23' RT	855.12	170038.48	706000.64
0330	297+13.90	77.70' RT	856.19	170042.97	706022.06
0331	297+11.99	73.00' RT	855.99	170047.48	706019.73

SE QUADRANT - N BROOKFIELD RD

BLUEMOUND RD (USH 18)



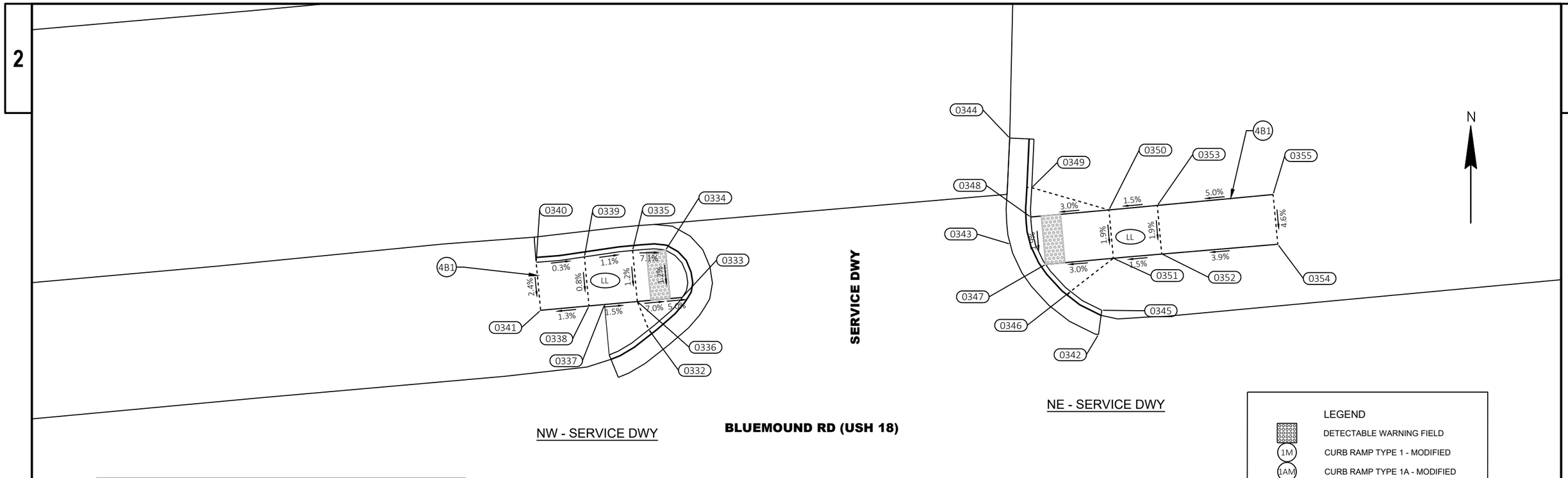


PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N BROOKFIELD RD	SHEET 132	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Brkfld-sw-se

PLOT DATE : 3/14/2023 10:09 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



SERVICE DWY NW & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0332	303+79.15	67.48' LT	864.51	170247.98	706671.37
0333	303+82.87	70.48' LT	864.44	170251.30	706674.80
0334	303+81.61	75.48' LT	864.56	170256.17	706673.10
0335	303+78.22	75.76' LT	864.81	170256.13	706669.70
0336	303+78.23	70.48' LT	864.74	170250.88	706670.19
0337	303+74.84	70.48' LT	864.79	170250.57	706666.81
0338	303+73.23	70.47' LT	864.82	170250.42	706665.21
0339	303+73.22	75.55' LT	864.86	170255.48	706664.74
0340	303+68.22	75.45' LT	864.87	170254.92	706659.77
0341	303+68.23	70.49' LT	864.75	170249.98	706660.23
0342	304+25.22	62.78' LT	864.49	170247.48	706717.67
0343	304+17.01	72.87' LT	864.73	170256.79	706708.59
0344	304+17.95	83.76' LT	865.13	170267.71	706708.54

SERVICE DWY NW & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0345	304+25.78	65.24' LT	864.86	170249.98	706718.02
0346	304+22.75	67.47' LT	864.92	170251.92	706714.80
0347	304+20.46	70.47' LT	864.77	170254.70	706712.24
0348	304+19.37	75.47' LT	864.83	170259.58	706710.70
0349	304+19.75	78.47' LT	865.40	170262.60	706710.80
0350	304+27.46	75.46' LT	865.08	170260.31	706718.76
0351	304+27.46	70.46' LT	864.98	170255.33	706719.21
0352	304+32.46	70.46' LT	865.05	170255.79	706724.19
0353	304+32.46	75.46' LT	865.15	170260.77	706723.74
0354	304+44.45	70.36' LT	865.52	170256.78	706736.14
0355	304+44.43	75.51' LT	865.76	170261.90	706735.66

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

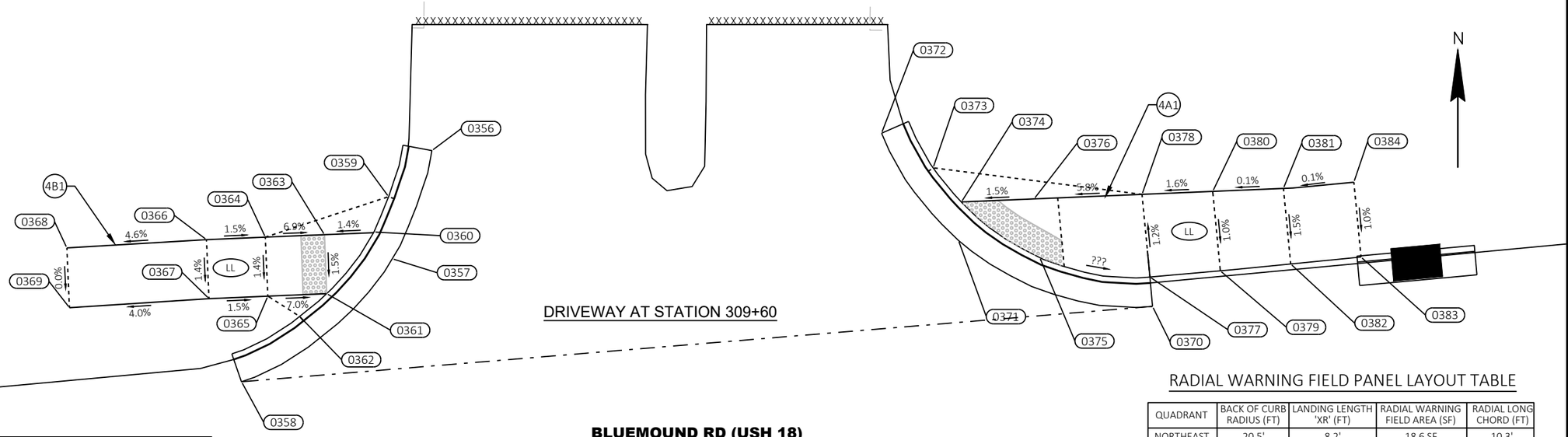
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS -SERVICE DWY	SHEET 133	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Dwy5

PLOT DATE : 3/14/2023 10:09 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

2



RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHEAST	20.5'	8.2'	18.6 SF	10.3'

DWY AT STATION 309+60

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0356	309+42.18	80.70' LT	869.36	170312.28	707230.88
0357	309+37.99	71.87' LT	869.26	170303.10	707227.51
0358	309+24.30	62.64' LT	868.85	170292.67	707214.71
0359	309+38.16	77.14' LT	869.80	170308.37	707227.20
0360	309+36.65	74.27' LT	869.32	170305.37	707225.96
0361	309+32.18	69.43' LT	869.18	170300.14	707221.94
0362	309+29.72	67.71' LT	869.33	170298.21	707219.64
0363	309+32.45	74.42' LT	869.26	170305.14	707221.76
0364	309+27.43	74.67' LT	869.60	170304.94	707216.73
0365	309+27.19	69.67' LT	869.53	170299.93	707216.95
0366	309+22.43	74.91' LT	869.68	170304.72	707211.73
0367	309+22.19	69.91' LT	869.61	170299.72	707211.95
0368	309+10.57	75.29' LT	869.13	170304.02	707199.89
0369	309+10.33	70.22' LT	869.13	170298.95	707200.10
0370	310+01.89	61.97' LT	869.45	170299.05	707292.04

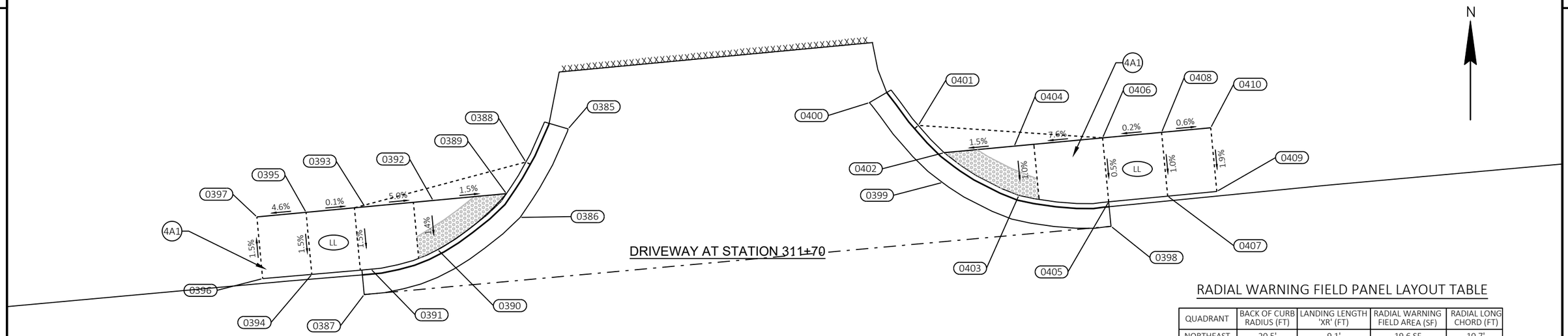
DWY AT STATION 309+60

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0371	309+85.99	69.06' LT	869.39	170304.67	707275.56
0372	309+80.32	78.70' LT	869.53	170313.76	707269.04
0373	309+84.41	75.38' LT	869.82	170310.82	707273.42
0374	309+86.54	72.28' LT	869.41	170307.92	707275.82
0375	309+92.74	66.97' LT	869.41	170303.20	707282.47
0376	309+92.71	71.97' LT	869.50	170308.18	707281.99
0377	310+01.90	64.48' LT	870.11	170301.55	707291.82
0378	310+01.87	71.53' LT	870.03	170308.57	707291.15
0379	310+07.90	64.46' LT	870.06	170302.08	707297.80
0380	310+07.87	71.23' LT	870.12	170308.82	707297.15
0381	310+13.87	70.94' LT	870.13	170309.07	707303.16
0382	310+13.90	64.50' LT	870.03	170302.66	707303.77
0383	310+19.90	64.54' LT	870.06	170303.25	707309.74
0384	310+19.87	70.92' LT	870.13	170309.60	707309.13

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

2



RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHEAST	20.5'	9.1'	19.6 SF	10.7'
NORTHWEST	20.5'	9.5'	20.4 SF	11.0'

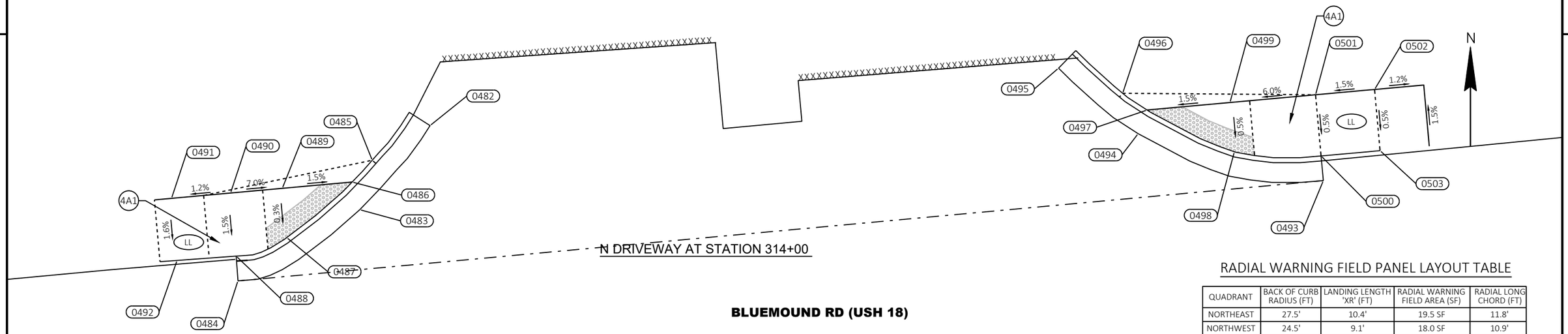
DWY AT STATION 311+70					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0385	311+53.91	76.92' LT	870.40	170327.75	707442.07
0386	311+48.26	68.43' LT	870.51	170318.78	707437.22
0387	311+31.82	62.08' LT	870.47	170310.96	707421.43
0388	311+49.35	73.96' LT	870.87	170324.39	707437.80
0389	311+47.10	70.96' LT	870.47	170321.19	707435.83
0390	311+39.65	65.94' LT	870.51	170315.52	707428.87
0391	311+32.74	64.58' LT	870.87	170313.54	707422.11
0392	311+39.63	70.94' LT	870.58	170320.50	707428.40
0393	311+32.71	70.93' LT	870.93	170319.85	707421.50
0394	311+26.73	64.60' LT	870.84	170313.01	707416.13
0395	311+26.72	70.91' LT	870.93	170319.29	707415.54
0396	311+21.73	64.62' LT	870.79	170312.58	707411.14
0397	311+21.72	70.90' LT	870.70	170318.83	707410.56
0398	312+07.77	62.10' LT	871.03	170317.88	707497.05
0399	311+91.16	68.08' LT	870.92	170322.32	707479.97

DWY AT STATION 311+70					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0400	311+84.53	76.80' LT	870.72	170330.41	707472.58
0401	311+89.26	74.06' LT	871.22	170328.10	707477.53
0402	311+91.61	71.06' LT	870.93	170325.34	707480.15
0403	311+98.76	66.07' LT	870.98	170321.01	707487.72
0404	311+98.73	71.07' LT	871.03	170325.99	707487.24
0405	312+07.75	64.60' LT	871.68	170320.36	707496.81
0406	312+07.72	71.10' LT	871.71	170326.84	707496.19
0407	312+13.75	64.62' LT	871.66	170320.94	707502.79
0408	312+13.72	71.11' LT	871.73	170327.40	707502.17
0409	312+18.75	64.65' LT	871.57	170321.42	707507.76
0410	312+18.72	71.12' LT	871.69	170327.86	707507.14

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
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- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

2



RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHEAST	27.5'	10.4'	19.5 SF	11.8'
NORTHWEST	24.5'	9.1'	18.0 SF	10.9'

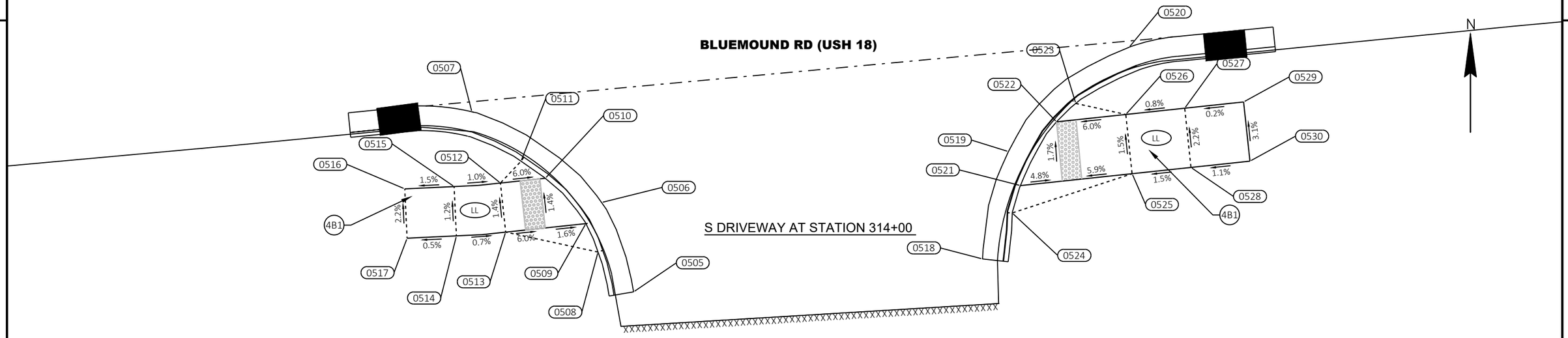
N DWY AT STATION 314+00					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0482	313+72.88	75.85' LT	872.55	170346.57	707660.24
0483	313+65.03	68.03' LT	872.77	170338.07	707653.12
0484	313+52.09	61.99' LT	872.70	170330.88	707640.79
0485	313+66.74	72.90' LT	872.90	170343.07	707654.38
0486	313+64.51	70.89' LT	872.71	170340.87	707652.35
0487	313+57.40	65.90' LT	872.80	170335.25	707645.73
0488	313+52.14	64.49' LT	873.09	170333.37	707640.61
0489	313+57.41	70.90' LT	872.81	170340.23	707645.28
0490	313+52.14	70.90' LT	873.18	170339.75	707640.03
0491	313+46.14	70.90' LT	873.11	170339.21	707634.06
0492	313+46.14	64.60' LT	873.01	170332.94	707634.62
0493	314+62.46	62.10' LT	873.68	170341.01	707750.69
0494	314+44.21	68.53' LT	873.58	170345.76	707731.94
0495	314+36.79	75.86' LT	873.14	170352.38	707723.88
0496	314+43.03	72.74' LT	873.69	170349.84	707730.37

N DWY AT STATION 314+00					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0497	314+45.34	70.83' LT	873.58	170348.15	707732.85
0498	314+53.76	65.82' LT	873.68	170343.93	707741.69
0499	314+53.76	70.82' LT	873.71	170348.91	707741.24
0500	314+62.45	64.60' LT	874.20	170343.50	707750.46
0501	314+62.46	70.81' LT	874.23	170349.69	707749.90
0502	314+68.46	70.80' LT	874.32	170350.23	707755.88
0503	314+68.45	64.60' LT	874.29	170344.04	707756.44

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
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- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
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- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

2



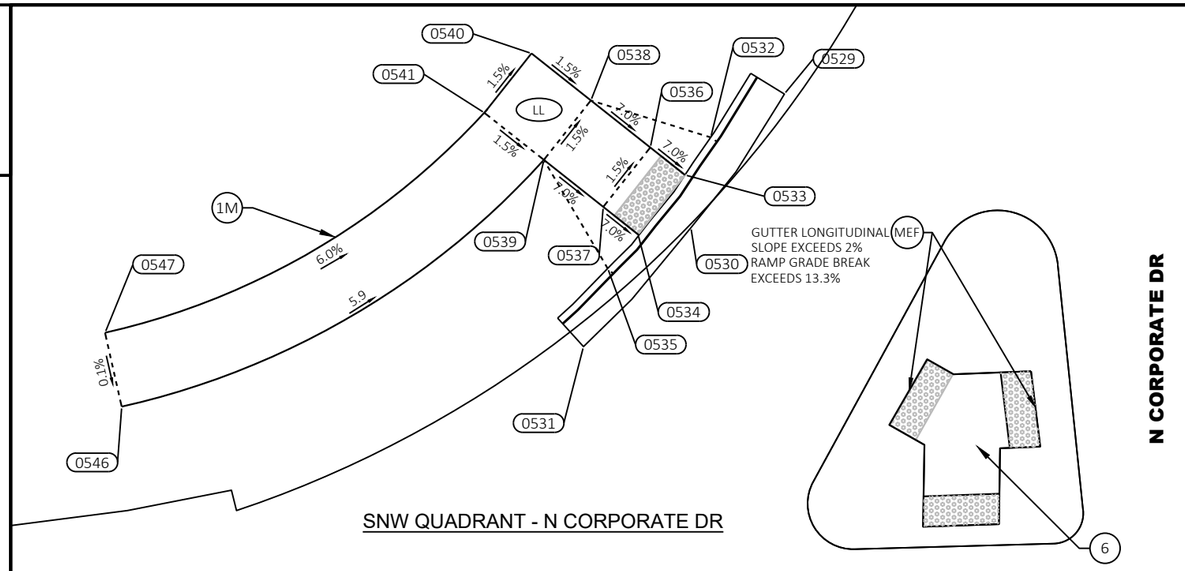
S DWY AT STATION 314+00					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0505	313+83.85	82.81' RT	874.73	170189.56	707685.57
0506	313+81.44	73.50' RT	873.88	170198.61	707682.32
0507	313+69.20	63.18' RT	873.35	170207.78	707669.20
0508	313+80.63	78.47' RT	874.19	170193.59	707681.97
0509	313+79.66	75.49' RT	873.80	170196.48	707680.74
0510	313+75.99	70.54' RT	873.76	170201.07	707676.63
0511	313+73.70	68.60' RT	873.94	170202.79	707674.17
0512	313+71.42	70.61' RT	874.04	170200.58	707672.09
0513	313+71.50	75.61' RT	874.11	170195.61	707672.61
0514	313+66.50	75.53' RT	874.15	170195.23	707667.63
0515	313+66.71	70.54' RT	874.08	170200.23	707667.39
0516	313+61.72	70.32' RT	874.01	170199.99	707662.40
0517	313+61.50	75.32' RT	874.12	170194.99	707662.63

S DWY AT STATION 314+00					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0518	314+19.34	82.70' RT	875.18	170192.89	707720.90
0519	314+22.94	72.11' RT	874.40	170203.77	707723.52
0520	314+36.07	62.69' RT	874.14	170214.34	707735.75
0521	314+23.83	75.65' RT	874.61	170200.32	707724.74
0522	314+28.05	69.55' RT	874.31	170206.78	707728.39
0523	314+30.17	67.87' RT	874.64	170208.65	707730.34
0524	314+22.76	78.33' RT	874.28	170197.55	707723.91
0525	314+35.20	75.48' RT	874.82	170201.53	707736.04
0526	314+35.11	69.44' RT	874.73	170207.53	707735.40
0527	314+41.11	69.35' RT	874.78	170208.16	707741.37
0528	314+41.20	75.39' RT	874.91	170202.16	707742.01
0529	314+47.11	69.26' RT	874.79	170208.80	707747.34
0530	314+47.20	75.30' RT	874.98	170202.80	707747.98

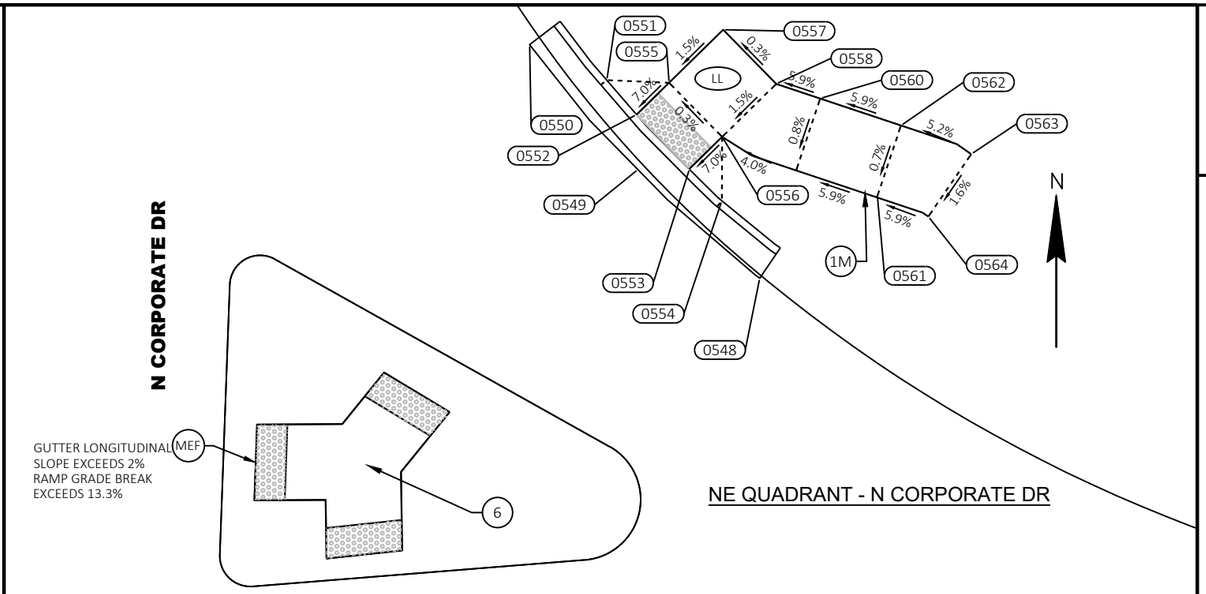
LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
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- 3M — CURB RAMP TYPE 3 - MODIFIED
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- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
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- 6 — CURB RAMP TYPE 6
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- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - S DWY AT STATION 314+00	SHEET 137	E



SNW QUADRANT - N CORPORATE DR



NE QUADRANT - N CORPORATE DR

BLUEMOUND RD (USH 18)

CORPORATE NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0529	322+44.57	87.69' LT	867.88	170427.63	708534.35
0530	322+38.38	78.99' LT	868.51	170418.82	708528.18
0531	322+31.27	71.28' LT	869.09	170410.96	708521.09
0532	322+39.77	84.92' LT	868.71	170424.77	708529.49
0533	322+38.06	82.47' LT	868.50	170422.29	708527.79
0534	322+34.95	78.60' LT	868.57	170418.36	708524.69
0535	322+32.94	76.41' LT	869.29	170416.13	708522.69
0536	322+35.85	84.33' LT	868.70	170424.10	708525.50
0537	322+32.73	80.47' LT	868.78	170420.18	708522.39
0538	322+32.08	87.51' LT	869.05	170427.21	708521.58
0539	322+28.96	83.66' LT	869.13	170423.29	708518.47
0540	322+28.31	90.70' LT	869.13	170430.31	708517.66
0541	322+25.20	86.85' LT	869.20	170426.39	708514.55
0546	322+01.25	68.08' LT	871.02	170407.00	708490.62
0547	322+00.31	72.99' LT	871.02	170411.88	708489.52

BLUEMOUND RD (USH 18)

CORPORATE NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0548	323+61.37	77.17' LT	867.53	170417.39	708653.69
0549	323+53.42	84.23' LT	867.19	170424.55	708645.65
0550	323+46.35	92.40' LT	866.86	170432.79	708638.51
0551	323+51.35	90.11' LT	867.67	170430.45	708643.60
0552	323+53.29	87.86' LT	867.19	170428.18	708645.56
0553	323+56.74	84.32' LT	867.20	170424.60	708649.06
0554	323+58.86	82.24' LT	867.38	170422.49	708651.19
0555	323+55.37	89.98' LT	867.40	170430.28	708647.71
0556	323+58.83	86.45' LT	867.41	170426.71	708651.21
0557	323+58.82	93.52' LT	867.48	170433.78	708651.29
0558	323+62.28	89.99' LT	867.49	170430.20	708654.78
0559	323+63.64	84.30' LT	867.63	170424.49	708656.10
0560	323+65.12	89.07' LT	867.67	170429.24	708657.68

CORPORATE NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0561	323+68.90	82.69' LT	867.96	170422.80	708661.46
0562	323+70.35	87.37' LT	868.00	170427.46	708663.01
0563	323+74.92	85.55' LT	868.26	170425.57	708667.65
0564	323+72.21	81.39' LT	868.18	170421.45	708664.82

LEGEND

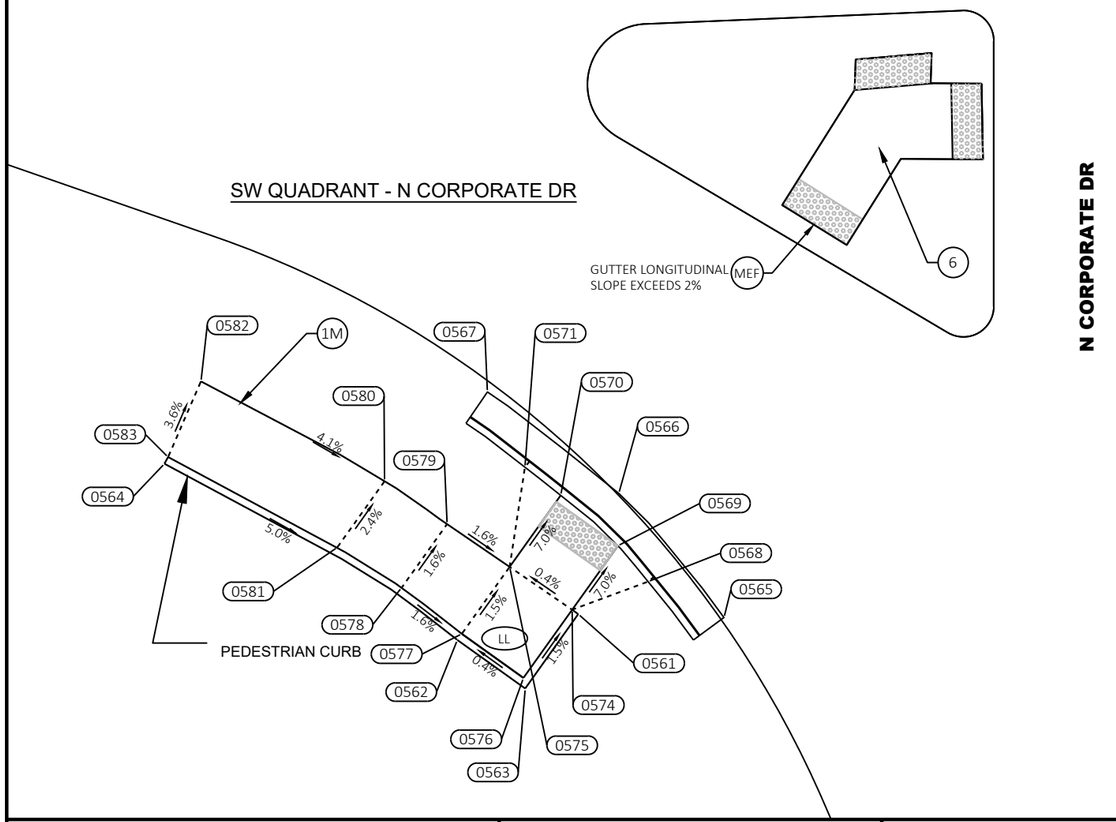
- DETECTABLE WARNING FIELD
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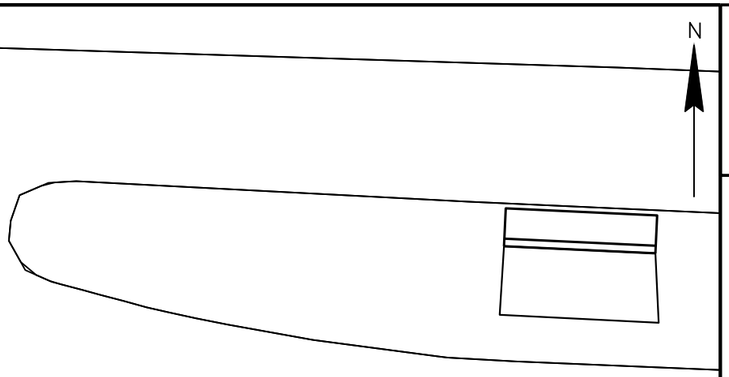
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N CORPORATE DR	SHEET 138	E

CORPORATE SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0561	322+27.74	105.25' RT	869.89	170234.40	708521.38
0562	322+19.49	106.76' RT	870.45	170232.70	708513.40
0563	322+24.02	110.07' RT	870.47	170229.50	708517.88
0564	321+99.97	94.62' RT	870.92	170244.33	708494.07
0565	322+37.61	105.67' RT	869.94	170234.18	708530.99
0566	322+30.65	97.34' RT	869.65	170242.37	708524.05
0567	322+21.93	90.45' RT	869.55	170249.06	708515.38
0568	322+32.52	103.20' RT	869.77	170236.55	708525.99
0569	322+30.52	100.79' RT	869.52	170238.92	708523.99
0570	322+26.72	97.39' RT	869.46	170242.24	708520.22

CORPORATE SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0571	322+24.35	95.47' RT	869.77	170244.10	708517.86
0574	322+27.32	104.95' RT	869.89	170234.70	708520.97
0575	322+23.15	102.03' RT	869.87	170237.52	708516.85
0576	322+23.92	109.37' RT	869.97	170230.20	708517.76
0577	322+19.80	106.37' RT	869.95	170233.11	708513.69
0578	322+15.79	103.23' RT	870.03	170236.14	708509.72
0579	322+18.98	99.10' RT	869.94	170240.35	708512.72
0580	322+14.82	96.18' RT	870.15	170243.17	708508.60
0581	322+11.51	100.46' RT	870.28	170238.81	708505.48
0582	322+02.59	89.26' RT	870.72	170249.76	708496.48

BLUEMOUND RD (USH 18)



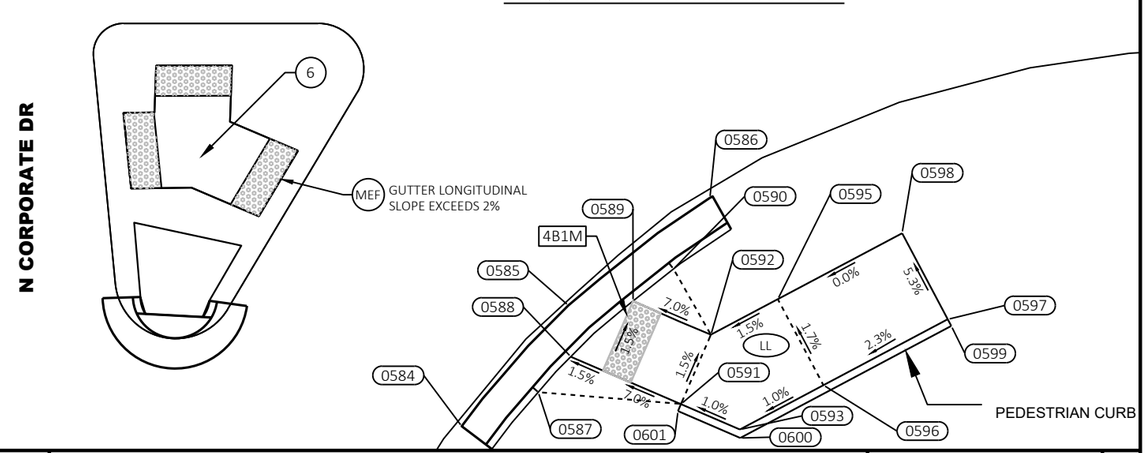


CORPORATE SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0584	323+47.94	94.41' RT	869.02	170245.97	708638.36
0585	323+55.06	86.37' RT	868.68	170253.94	708645.40
0586	323+64.51	79.16' RT	868.38	170261.03	708654.74
0587	323+53.09	92.12' RT	869.26	170248.22	708643.41
0588	323+55.26	89.75' RT	868.62	170250.56	708645.56
0589	323+59.42	86.03' RT	868.58	170254.23	708649.67
0590	323+62.12	83.88' RT	868.96	170256.35	708652.34
0591	323+62.76	92.78' RT	869.05	170247.44	708652.84
0592	323+64.71	88.18' RT	868.97	170252.01	708654.80
0593	323+66.76	94.41' RT	869.09	170245.75	708656.72
0595	323+69.19	85.78' RT	869.04	170254.35	708659.22
0596	323+72.36	91.41' RT	869.15	170248.68	708662.23
0597	323+80.69	86.92' RT	869.38	170253.03	708670.44
0598	323+77.50	81.29' RT	869.05	170258.70	708667.42
0599	323+80.93	87.35' RT	869.39	170252.59	708670.67
0600	323+66.79	94.97' RT	869.59	170245.20	708656.74
0601	323+62.55	93.25' RT	869.06	170246.97	708652.63

LEGEND

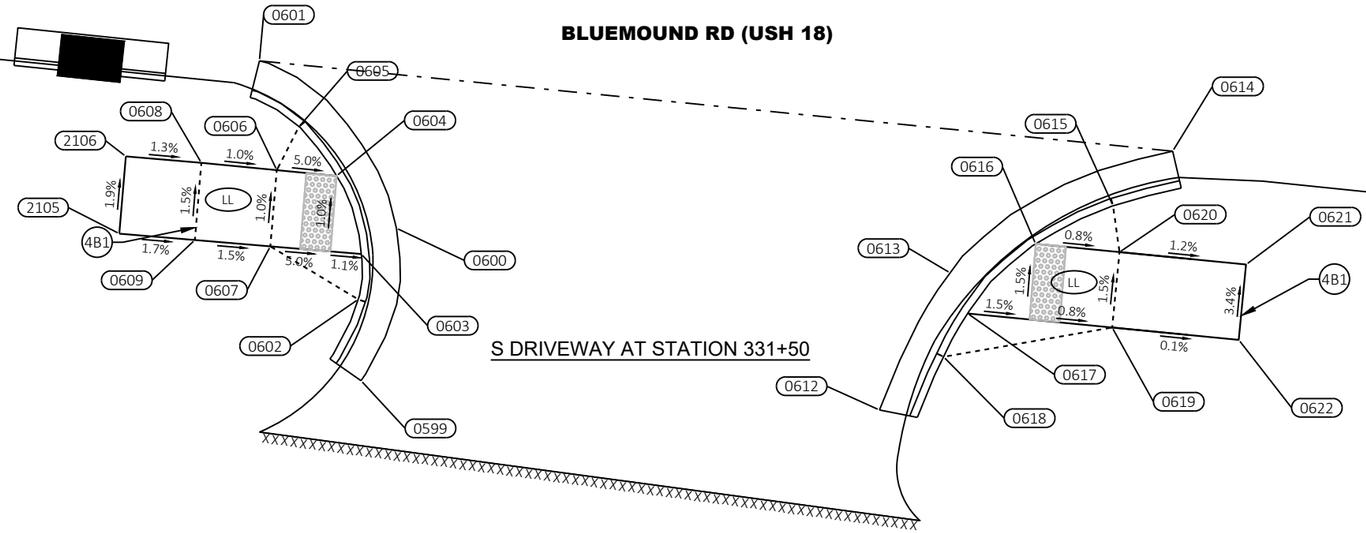
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- LL — LEVEL LANDING
- 0000 — POINT NUMBER

BLUEMOUND RD (USH 18)



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N CORPORATE DR	SHEET 139	E

2



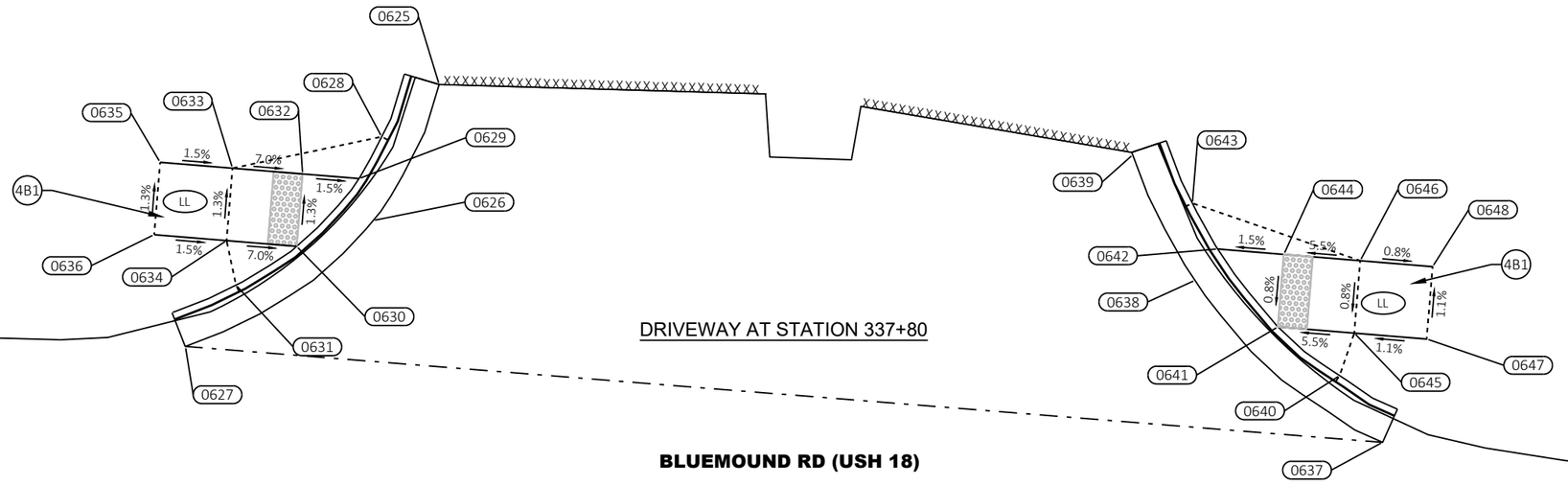
S DWY AT STATION 331+50					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0599	331+35.05	93.68' RT	861.66	170185.59	709414.61
0600	331+36.40	83.44' RT	861.12	170195.64	709416.94
0601	331+26.33	73.33' RT	860.87	170206.68	709407.90
0602	331+34.34	88.36' RT	861.71	170190.95	709414.42
0603	331+34.26	85.36' RT	861.29	170193.94	709414.62
0604	331+32.14	80.39' RT	861.27	170199.09	709412.99
0605	331+29.36	77.39' RT	861.20	170202.35	709410.52
0606	331+28.17	80.39' RT	861.47	170199.48	709409.05
0607	331+28.24	85.44' RT	861.52	170194.45	709408.63
0608	331+23.17	80.39' RT	861.52	170199.96	709404.07
0609	331+23.24	85.50' RT	861.59	170194.87	709403.64
0612	331+69.29	92.29' RT	860.85	170183.65	709448.82
0613	331+73.05	82.84' RT	860.23	170192.70	709453.49
0614	331+86.90	73.43' RT	859.50	170200.73	709468.17
0615	331+83.33	77.40' RT	0.00	170197.12	709464.24

S DWY AT STATION 331+50					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0616	331+78.48	80.39' RT	860.13	170194.61	709459.13
0617	331+74.46	85.39' RT	860.27	170190.02	709454.64
0618	331+73.16	88.39' RT	0.00	170187.16	709453.05
0619	331+84.04	85.40' RT	860.16	170189.09	709464.18
0620	331+84.05	80.40' RT	860.09	170194.07	709464.66
0621	331+92.44	80.40' RT	859.98	170193.26	709473.02
0622	331+92.44	85.40' RT	860.15	170188.28	709472.53
2105	331+18.24	85.57' RT	861.68	170195.29	709398.66
2106	331+18.17	80.45' RT	861.58	170200.38	709399.09

LEGEND

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- 0000 — POINT NUMBER

2



N DWY AT STATION 337+80					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0625	337+57.43	81.32' LT	854.41	170299.59	710050.99
0626	337+53.81	71.56' LT	854.72	170290.23	710046.45
0627	337+41.79	61.69' LT	855.40	170281.56	710033.53
0628	337+53.84	77.37' LT	855.14	170296.00	710047.04
0629	337+52.56	74.35' LT	854.66	170293.12	710045.47
0630	337+48.74	69.29' LT	854.78	170288.45	710041.18
0631	337+44.85	66.23' LT	855.13	170285.78	710037.01
0632	337+48.66	74.29' LT	854.72	170293.43	710041.59
0633	337+43.82	74.21' LT	855.06	170293.83	710036.77
0634	337+43.90	69.22' LT	855.12	170288.85	710036.36
0635	337+38.82	74.14' LT	855.13	170294.24	710031.78
0636	337+38.90	69.14' LT	855.20	170289.25	710031.37
0637	338+24.46	63.09' LT	854.40	170274.96	710115.95
0638	338+10.53	72.94' LT	854.24	170286.11	710103.04
0639	338+05.43	81.12' LT	854.11	170294.75	710098.75

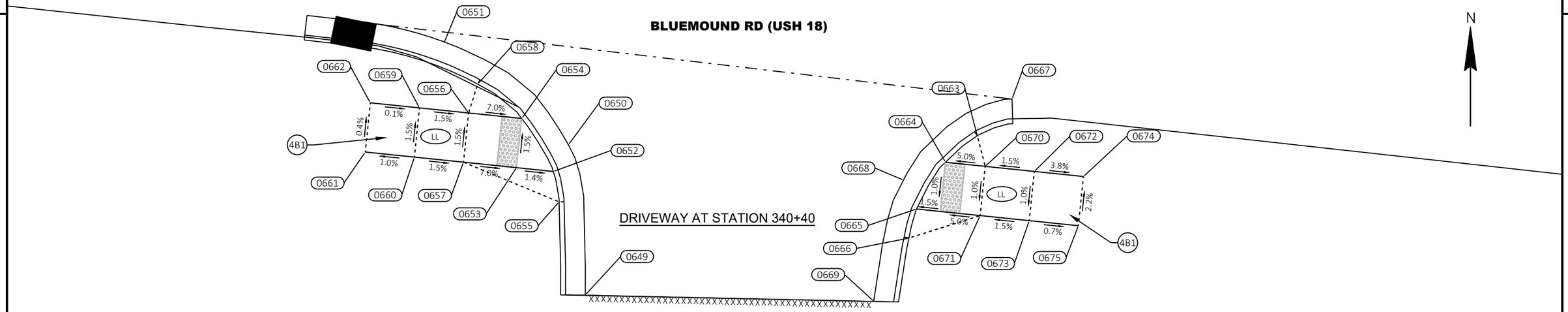
N DWY AT STATION 337+80					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0640	338+21.07	67.38' LT	854.39	170279.55	710112.99
0641	338+16.52	70.31' LT	854.19	170282.91	710108.74
0642	338+11.88	75.24' LT	854.16	170288.27	710104.60
0643	338+09.84	78.21' LT	854.35	170291.42	710102.86
0644	338+16.44	75.31' LT	854.23	170287.90	710109.15
0645	338+21.80	70.39' LT	854.48	170282.48	710114.00
0646	338+21.72	75.39' LT	854.52	170287.47	710114.41
0647	338+26.80	70.46' LT	854.53	170282.07	710118.99
0648	338+26.72	75.46' LT	854.48	170287.06	710119.40

LEGEND

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- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N DWY AT STATION 337+80	SHEET 141	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Dwy10-n
PLOT DATE : 3/14/2023 10:12 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



S DWY AT STATION 340+40					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0649	340+26.01	98.87' RT	852.96	170094.28	710300.90
0650	340+22.85	83.91' RT	852.51	170109.47	710299.20
0651	340+09.32	74.88' RT	852.25	170119.76	710286.60
0652	340+21.59	86.74' RT	852.52	170106.77	710297.67
0653	340+17.84	86.72' RT	852.57	170107.15	710293.93
0654	340+17.89	81.72' RT	852.50	170112.13	710294.47
0655	340+22.47	89.75' RT	853.11	170103.69	710298.25
0656	340+12.48	81.69' RT	852.87	170112.68	710289.09
0657	340+12.45	86.69' RT	852.95	170107.71	710288.57
0658	340+13.11	78.69' RT	852.77	170115.60	710290.01
0659	340+07.48	81.66' RT	852.95	170113.19	710284.11
0660	340+07.45	86.66' RT	853.02	170108.22	710283.60
0661	340+02.45	86.63' RT	852.97	170108.73	710278.63
0662	340+02.48	81.63' RT	852.96	170113.71	710279.14
0663	340+63.97	79.00' RT	852.06	170110.38	710340.60

S DWY AT STATION 340+40					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0664	340+61.03	81.96' RT	852.08	170107.71	710337.38
0665	340+58.56	86.96' RT	851.99	170102.98	710334.44
0666	340+58.08	89.96' RT	852.40	170100.04	710333.68
0667	340+67.11	74.96' RT	851.53	170114.09	710344.11
0668	340+56.96	84.19' RT	852.00	170105.89	710333.12
0669	340+55.16	96.68' RT	852.61	170093.64	710330.12
0670	340+65.07	82.00' RT	852.28	170107.28	710341.40
0671	340+65.04	87.00' RT	852.23	170102.31	710340.89
0672	340+70.07	82.03' RT	852.35	170106.77	710346.37
0673	340+70.04	87.03' RT	852.30	170101.80	710345.86
0674	340+75.07	82.06' RT	852.16	170106.26	710351.35
0675	340+75.04	87.06' RT	852.27	170101.28	710350.83

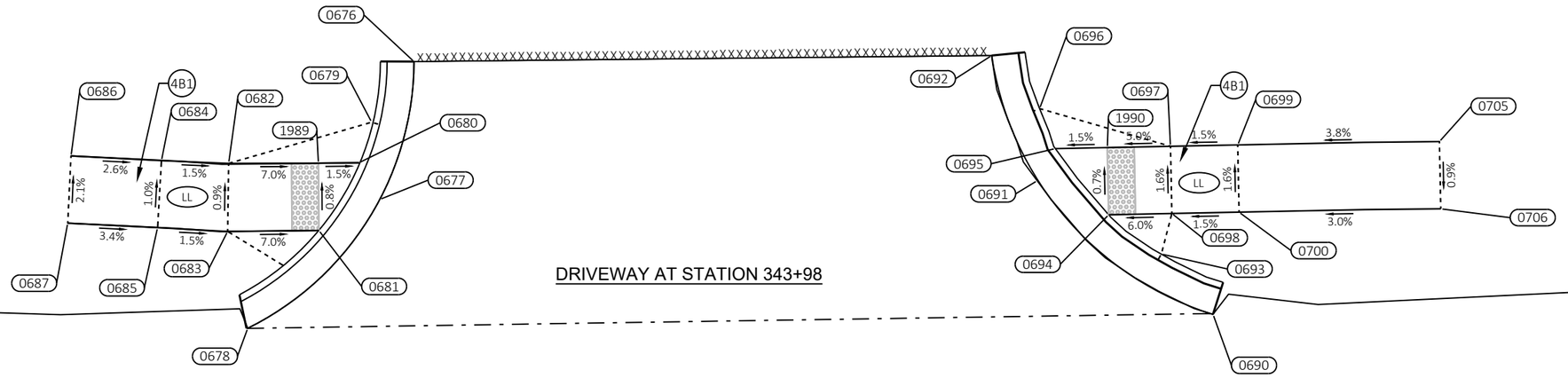
LEGEND

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- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - S DWY AT STATION 340+40	SHEET 142	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Dwy11-s
PLOT DATE : 3/14/2023 10:12 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



BLUEMOUND RD (USH 18)

N DWY AT STATION 343+98					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0676	343+76.18	82.43' LT	848.33	170248.50	710660.26
0677	343+73.63	72.15' LT	848.97	170238.25	710657.71
0678	343+63.59	62.44' LT	849.55	170228.67	710647.90
0679	343+72.93	77.89' LT	849.14	170243.99	710657.11
0680	343+72.00	74.87' LT	849.07	170240.98	710656.18
0681	343+68.95	69.80' LT	849.15	170235.95	710653.18
0682	343+61.90	74.69' LT	849.58	170240.95	710646.47
0683	343+61.92	69.62' LT	849.63	170235.87	710646.40
0684	343+56.70	74.80' LT	849.66	170241.14	710641.48
0685	343+56.51	69.80' LT	849.71	170236.15	710641.19
0686	343+49.69	74.99' LT	849.83	170241.48	710634.75
0687	343+49.56	69.99' LT	849.94	170236.49	710634.51
0690	344+37.82	63.24' LT	849.24	170229.70	710719.68
0691	344+24.47	73.42' LT	848.98	170239.64	710706.61
0692	344+21.08	82.78' LT	848.29	170248.95	710703.22
0693	344+33.94	67.80' LT	849.56	170234.19	710715.83
0694	344+29.94	70.80' LT	849.05	170237.11	710711.92

N DWY AT STATION 343+98					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0695	344+25.90	75.79' LT	848.95	170242.03	710707.95
0696	344+24.74	78.79' LT	849.11	170245.01	710706.78
0697	344+34.83	75.80' LT	849.25	170242.20	710716.51
0698	344+34.82	70.80' LT	849.33	170237.20	710716.62
0699	344+40.03	75.79' LT	849.32	170242.30	710721.51
0700	344+40.01	70.79' LT	849.40	170237.31	710721.61
0705	344+55.65	75.62' LT	849.89	170242.55	710736.51
0706	344+55.59	70.62' LT	849.85	170237.55	710736.61
1989	343+68.85	74.79' LT	849.11	170240.95	710653.15
1990	344+29.93	75.80' LT	849.01	170242.11	710711.82

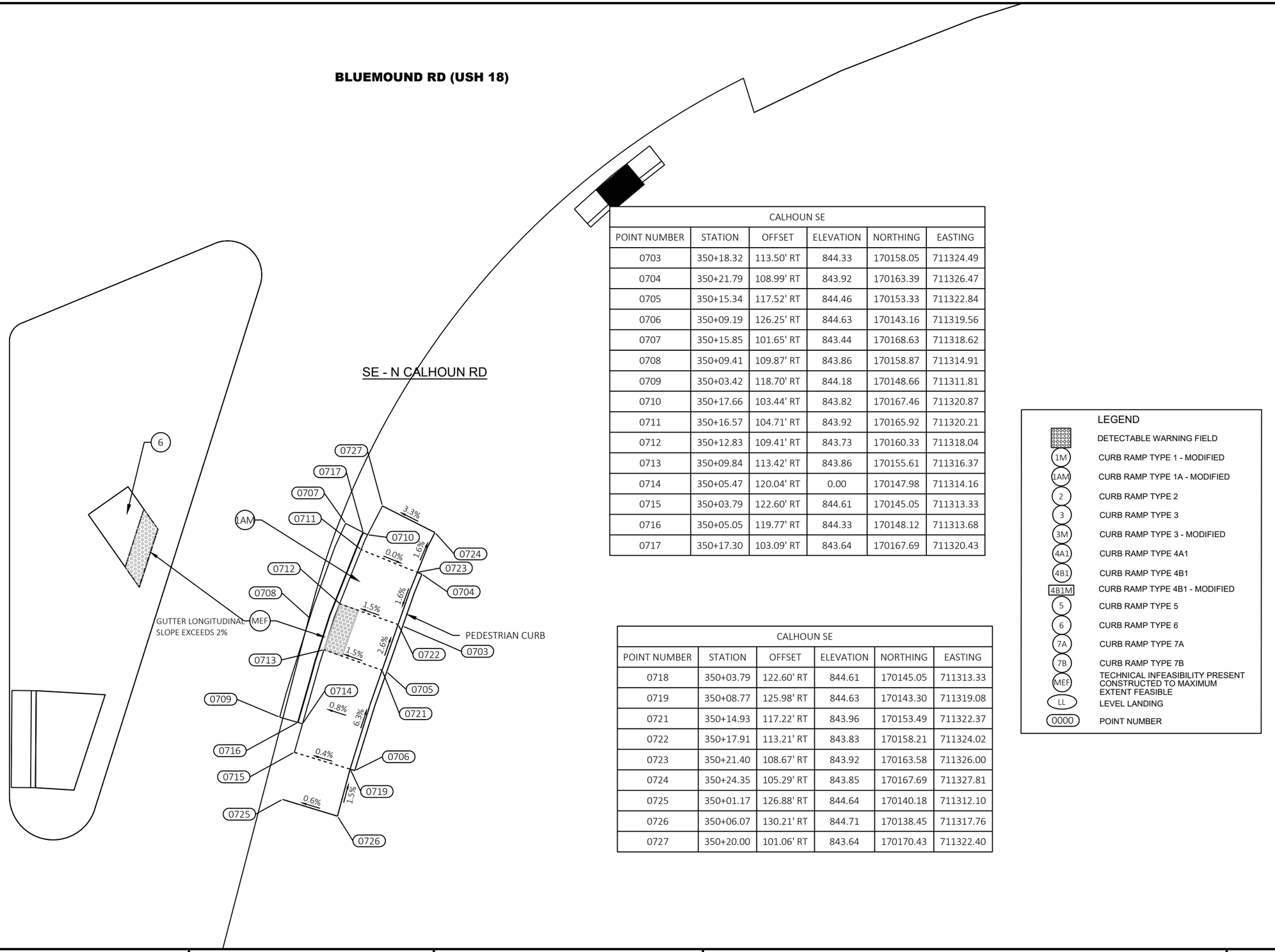
LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N DWY AT STATION 343+98	SHEET 143	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Dwy12-n
PLOT DATE : 3/14/2023 10:12 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



CALHOUN SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0703	350+18.32	113.50' RT	844.33	170158.05	711324.49
0704	350+21.79	108.99' RT	843.92	170163.39	711326.47
0705	350+15.34	117.52' RT	844.46	170153.33	711322.84
0706	350+09.19	126.25' RT	844.63	170143.16	711319.56
0707	350+15.85	101.65' RT	843.44	170168.63	711318.62
0708	350+09.41	109.87' RT	843.86	170158.87	711314.91
0709	350+03.42	118.70' RT	844.18	170148.66	711311.81
0710	350+17.66	103.44' RT	843.82	170167.46	711320.87
0711	350+16.57	104.71' RT	843.92	170165.92	711320.21
0712	350+12.83	109.41' RT	843.73	170160.33	711318.04
0713	350+09.84	113.42' RT	843.86	170155.61	711316.37
0714	350+05.47	120.04' RT	0.00	170147.98	711314.16
0715	350+03.79	122.60' RT	844.61	170145.05	711313.33
0716	350+05.05	119.77' RT	844.33	170148.12	711313.68
0717	350+17.30	103.09' RT	843.64	170167.69	711320.43

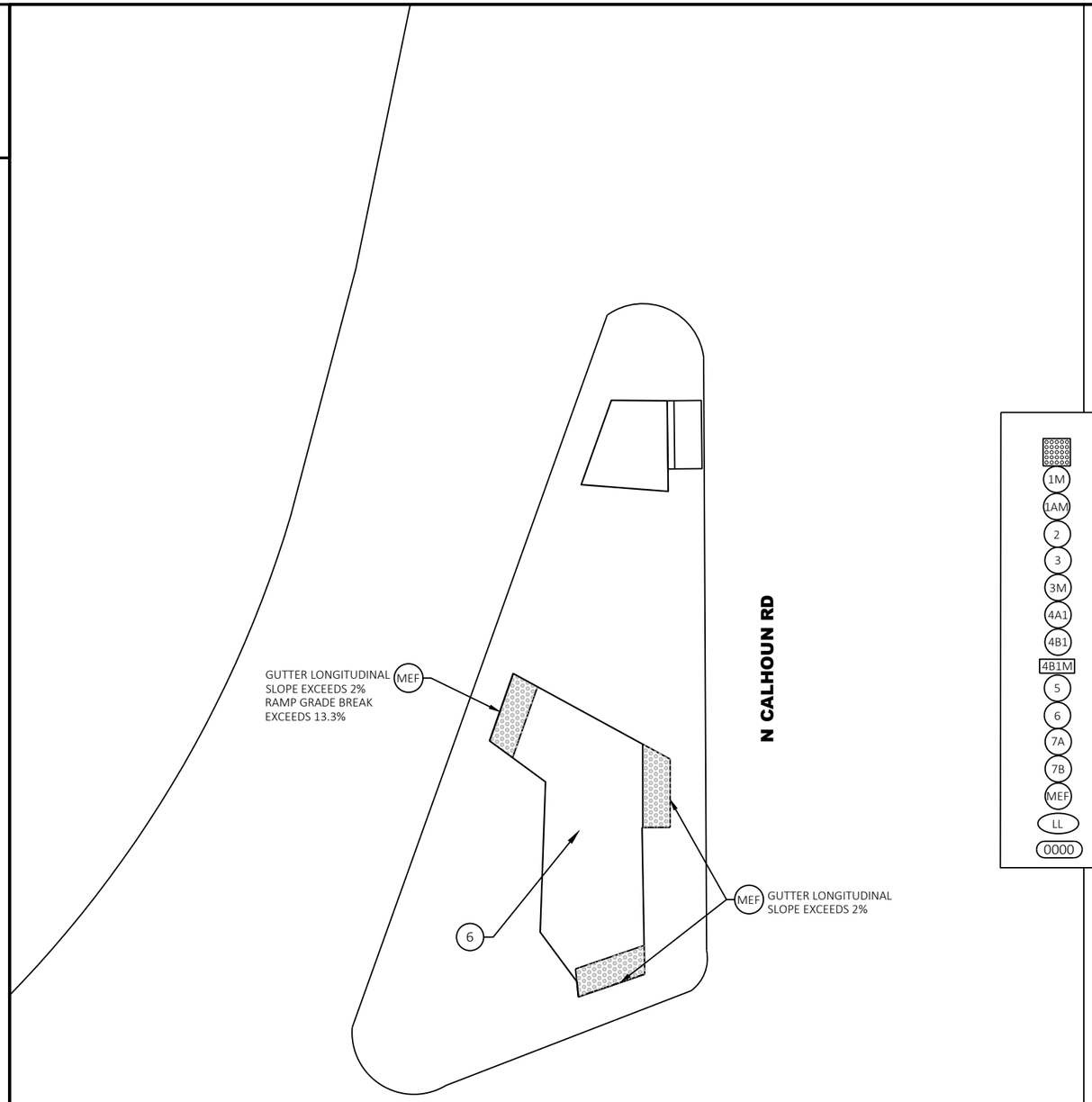
CALHOUN SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0718	350+03.79	122.60' RT	844.61	170145.05	711313.33
0719	350+08.77	125.98' RT	844.63	170143.30	711319.08
0721	350+14.93	117.22' RT	843.96	170153.49	711322.37
0722	350+17.91	113.21' RT	843.83	170158.21	711324.02
0723	350+21.40	108.67' RT	843.92	170163.58	711326.00
0724	350+24.35	105.29' RT	843.85	170167.69	711327.81
0725	350+01.17	126.88' RT	844.64	170140.18	711312.10
0726	350+06.07	130.21' RT	844.71	170138.45	711317.76
0727	350+20.00	101.06' RT	843.64	170170.43	711322.40

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N CALHOUN RD	SHEET 144	E

2

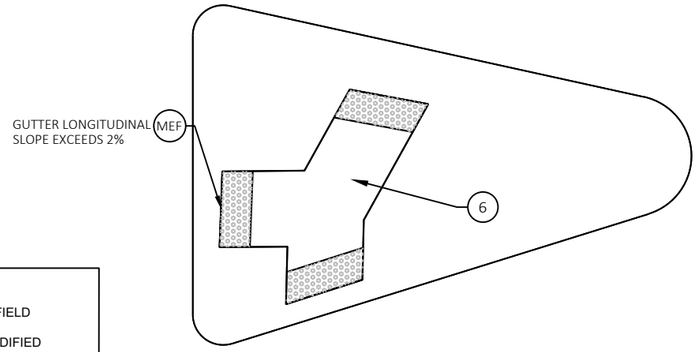


NW - N CALHOUN RD

BLUEMOUND RD (USH 18)

LEGEND

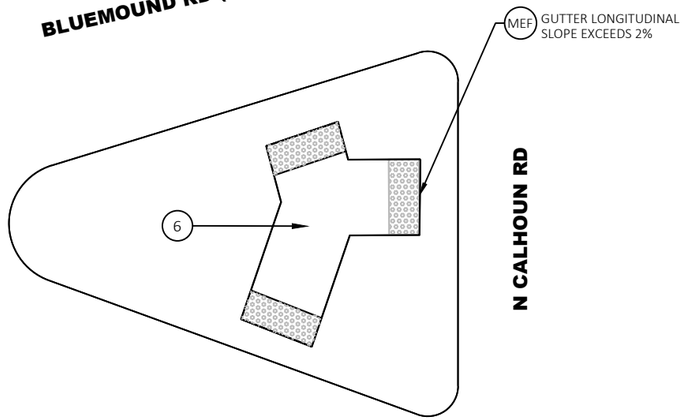
	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
1AM	CURB RAMP TYPE 1A - MODIFIED
2	CURB RAMP TYPE 2
3	CURB RAMP TYPE 3
3M	CURB RAMP TYPE 3 - MODIFIED
4A1	CURB RAMP TYPE 4A1
4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER



NE - N CALHOUN RD

BLUEMOUND RD (USH 18)

N



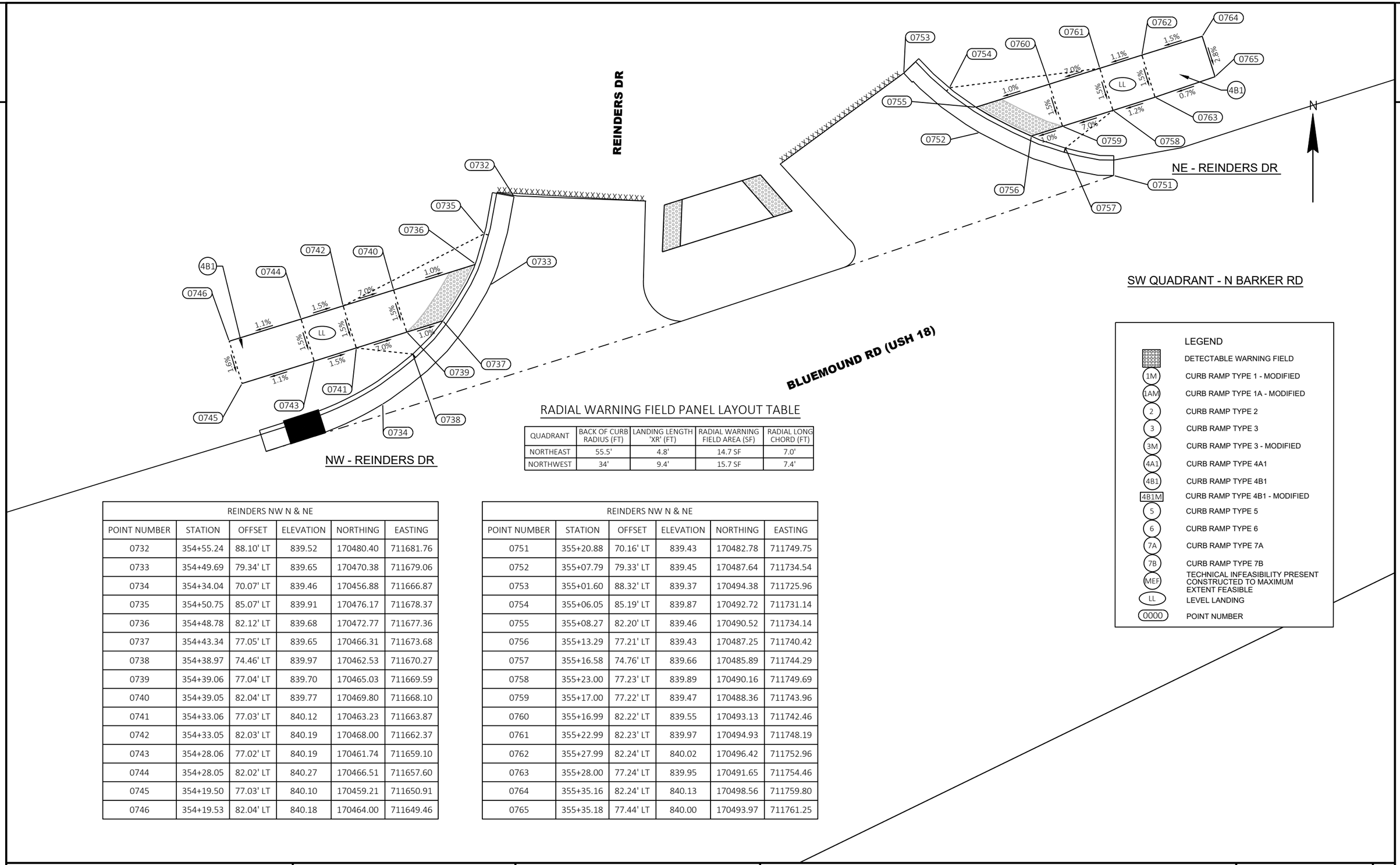
SW - N CALHOUN RD

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N CALHOUN RD	SHEET 145	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Calhn-sw-nw-ne

PLOT DATE : 3/14/2023 10:13 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42



RADIAL WARNING FIELD PANEL LAYOUT TABLE

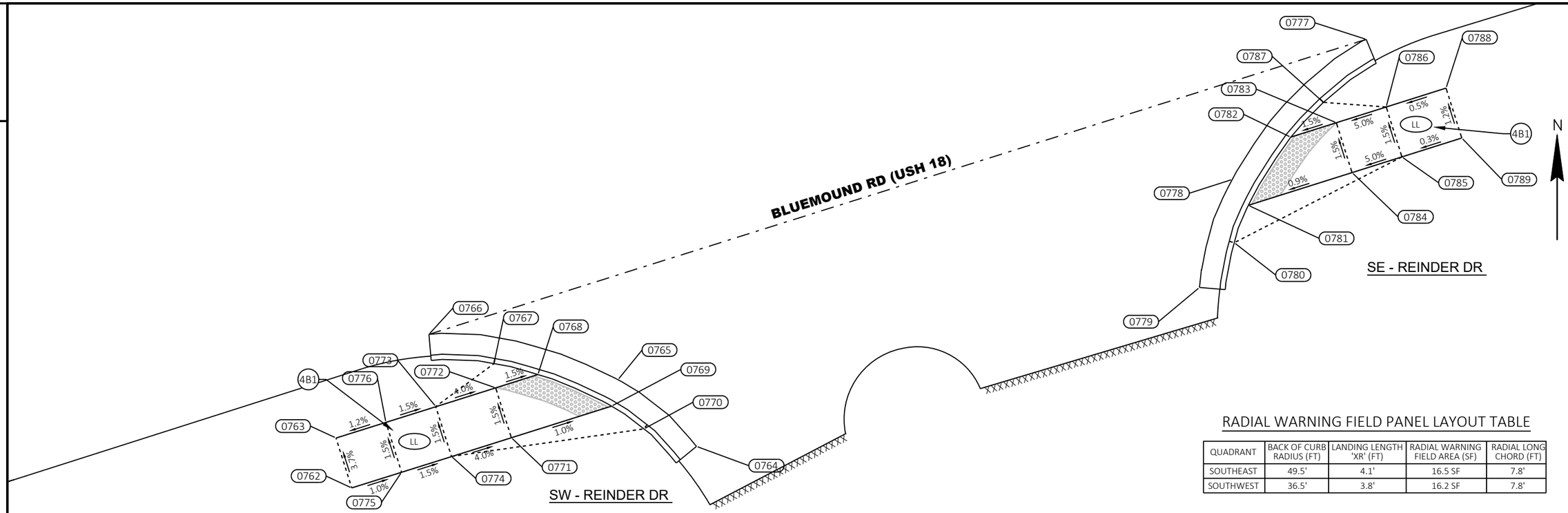
QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHEAST	55.5'	4.8'	14.7 SF	7.0'
NORTHWEST	34'	9.4'	15.7 SF	7.4'

LEGEND

	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
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2	CURB RAMP TYPE 2
3	CURB RAMP TYPE 3
3M	CURB RAMP TYPE 3 - MODIFIED
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7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER

REINDERS NW N & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0732	354+55.24	88.10' LT	839.52	170480.40	711681.76
0733	354+49.69	79.34' LT	839.65	170470.38	711679.06
0734	354+34.04	70.07' LT	839.46	170456.88	711666.87
0735	354+50.75	85.07' LT	839.91	170476.17	711678.37
0736	354+48.78	82.12' LT	839.68	170472.77	711677.36
0737	354+43.34	77.05' LT	839.65	170466.31	711673.68
0738	354+38.97	74.46' LT	839.97	170462.53	711670.27
0739	354+39.06	77.04' LT	839.70	170465.03	711669.59
0740	354+39.05	82.04' LT	839.77	170469.80	711668.10
0741	354+33.06	77.03' LT	840.12	170463.23	711663.87
0742	354+33.05	82.03' LT	840.19	170468.00	711662.37
0743	354+28.06	77.02' LT	840.19	170461.74	711659.10
0744	354+28.05	82.02' LT	840.27	170466.51	711657.60
0745	354+19.50	77.03' LT	840.10	170459.21	711650.91
0746	354+19.53	82.04' LT	840.18	170464.00	711649.46

REINDERS NW N & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0751	355+20.88	70.16' LT	839.43	170482.78	711749.75
0752	355+07.79	79.33' LT	839.45	170487.64	711734.54
0753	355+01.60	88.32' LT	839.37	170494.38	711725.96
0754	355+06.05	85.19' LT	839.87	170492.72	711731.14
0755	355+08.27	82.20' LT	839.46	170490.52	711734.14
0756	355+13.29	77.21' LT	839.43	170487.25	711740.42
0757	355+16.58	74.76' LT	839.66	170485.89	711744.29
0758	355+23.00	77.23' LT	839.89	170490.16	711749.69
0759	355+17.00	77.22' LT	839.47	170488.36	711743.96
0760	355+16.99	82.22' LT	839.55	170493.13	711742.46
0761	355+22.99	82.23' LT	839.97	170494.93	711748.19
0762	355+27.99	82.24' LT	840.02	170496.42	711752.96
0763	355+28.00	77.24' LT	839.95	170491.65	711754.46
0764	355+35.16	82.24' LT	840.13	170498.56	711759.80
0765	355+35.18	77.44' LT	840.00	170493.97	711761.25



RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	49.5'	4.1'	16.5 SF	7.8'
SOUTHWEST	36.5'	3.8'	16.2 SF	7.8'

REINDERS SW & SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0762	354+82.50	81.70' RT	841.05	170326.37	711758.24
0763	354+82.48	76.70' RT	840.86	170331.14	711756.74
0764	355+15.15	87.71' RT	841.11	170330.34	711791.21
0765	355+09.88	79.39' RT	840.68	170336.71	711783.70
0766	354+93.91	69.89' RT	840.25	170341.04	711765.63
0767	354+99.01	74.40' RT	840.65	170338.25	711771.85
0768	355+02.71	76.65' RT	840.54	170337.20	711776.04
0769	355+08.55	81.62' RT	840.58	170334.18	711783.09
0770	355+10.85	84.62' RT	841.06	170332.01	711786.18
0771	354+98.50	81.66' RT	840.68	170331.16	711773.51
0772	354+98.48	76.66' RT	840.61	170335.93	711772.01
0773	354+92.48	76.66' RT	840.85	170334.15	711766.28
0774	354+92.50	81.66' RT	840.92	170329.38	711767.78
0775	354+87.50	81.68' RT	841.00	170327.88	711763.01
0776	354+87.48	76.68' RT	840.92	170332.64	711761.51

REINDERS SW & SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0777	355+87.86	69.60' RT	840.22	170369.24	711855.25
0778	355+71.65	78.58' RT	840.67	170355.85	711842.44
0779	355+65.59	87.50' RT	841.16	170345.52	711839.31
0780	355+70.04	84.41' RT	841.32	170349.81	711842.64
0781	355+72.39	81.40' RT	840.66	170353.38	711843.98
0782	355+78.19	76.38' RT	840.61	170359.89	711848.03
0783	355+82.76	76.36' RT	840.68	170361.27	711852.39
0784	355+82.78	81.36' RT	840.75	170356.50	711853.90
0785	355+87.78	81.34' RT	841.00	170358.00	711858.66
0786	355+87.76	76.34' RT	840.93	170362.77	711857.16
0787	355+82.16	74.13' RT	840.77	170363.22	711851.16
0788	355+93.76	76.32' RT	840.96	170364.58	711862.88
0789	355+93.78	81.32' RT	841.02	170359.81	711864.39

REINDERS DR

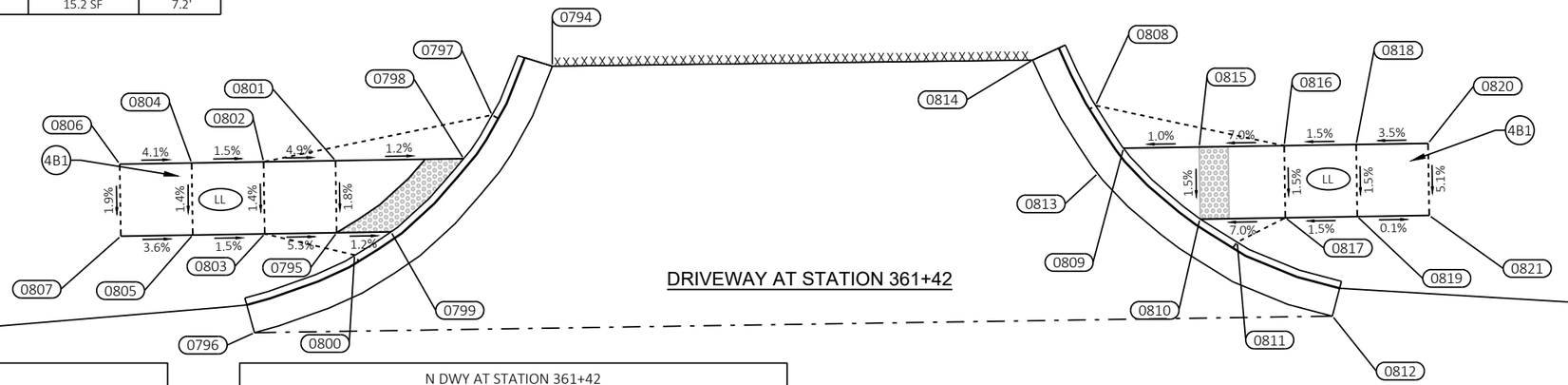
LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
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- LL — LEVEL LANDING
- 0000 — POINT NUMBER

2

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	27.5'	8.9'	15.2 SF	7.2'

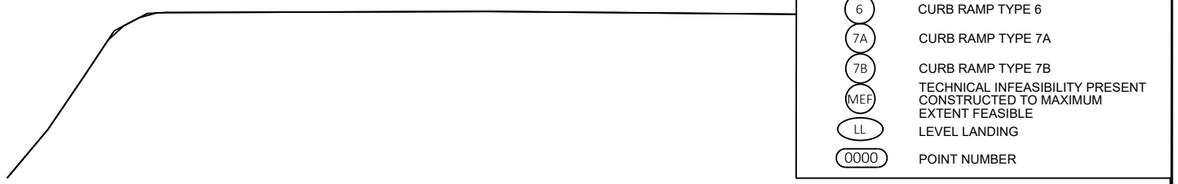


N DWY AT STATION 361+42					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0794	361+27.52	85.66' LT	840.40	170613.04	712361.98
0795	361+12.78	74.62' LT	840.60	170601.48	712347.00
0796	361+07.01	67.92' LT	840.24	170594.54	712341.29
0797	361+23.42	82.41' LT	840.71	170609.65	712357.80
0798	361+21.43	79.44' LT	840.31	170606.62	712355.82
0799	361+16.42	74.54' LT	840.28	170601.54	712350.78
0800	361+13.92	73.03' LT	840.64	170599.93	712348.24
0801	361+12.89	79.62' LT	840.42	170606.48	712346.92
0802	361+08.09	79.74' LT	840.66	170606.40	712341.92
0803	361+07.97	74.74' LT	840.59	170601.40	712342.00
0804	361+03.29	79.87' LT	840.73	170606.32	712336.92
0805	361+03.16	74.87' LT	840.66	170601.32	712337.00
0806	360+98.49	80.01' LT	840.94	170606.24	712331.92
0807	360+98.35	75.01' LT	840.84	170601.24	712332.00
0808	361+63.63	82.15' LT	841.07	170610.31	712399.73

N DWY AT STATION 361+42					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0809	361+65.46	79.16' LT	840.67	170607.34	712401.68
0810	361+70.51	74.22' LT	840.65	170602.45	712406.98
0811	361+73.00	72.57' LT	840.94	170600.82	712409.57
0812	361+79.36	67.41' LT	840.57	170595.69	712416.19
0813	361+63.71	77.42' LT	840.65	170605.58	712399.87
0814	361+59.47	85.36' LT	840.72	170613.46	712395.36
0815	361+70.51	79.20' LT	840.72	170607.42	712406.93
0816	361+76.18	79.25' LT	841.14	170607.52	712412.84
0817	361+76.23	74.25' LT	841.06	170602.52	712412.92
0818	361+80.98	79.31' LT	841.21	170607.60	712417.84
0819	361+81.05	74.31' LT	841.14	170602.60	712417.92
0820	361+85.78	79.39' LT	841.39	170607.68	712422.84
0821	361+85.86	74.39' LT	841.13	170602.68	712422.92

BLUEMOUND RD (USH 18)

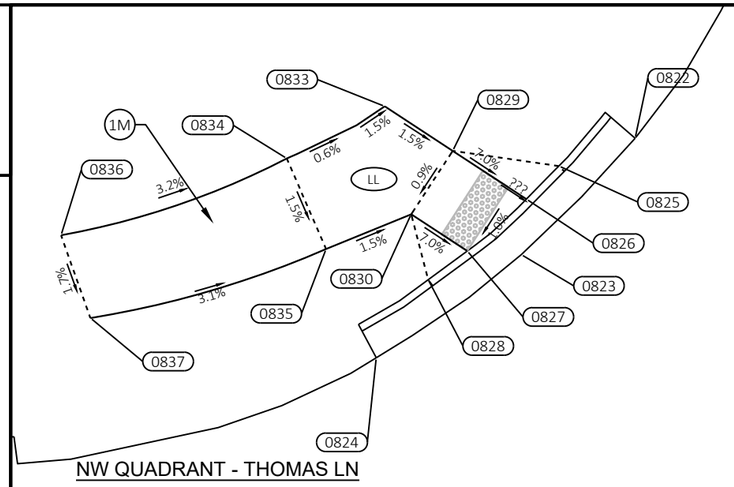




LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
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- LL — LEVEL LANDING
- 0000 — POINT NUMBER

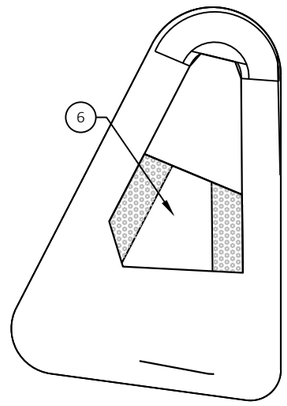
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N DWY AT STATION 361+42	SHEET 148	E



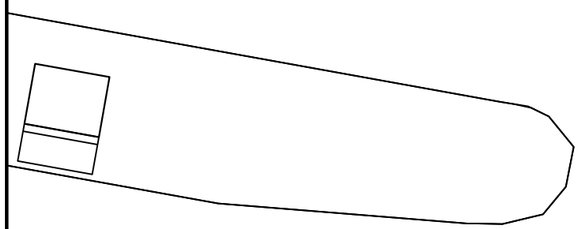
NW QUADRANT - THOMAS LN

BLUEMOUND RD (USH 18)

THOMAS LN



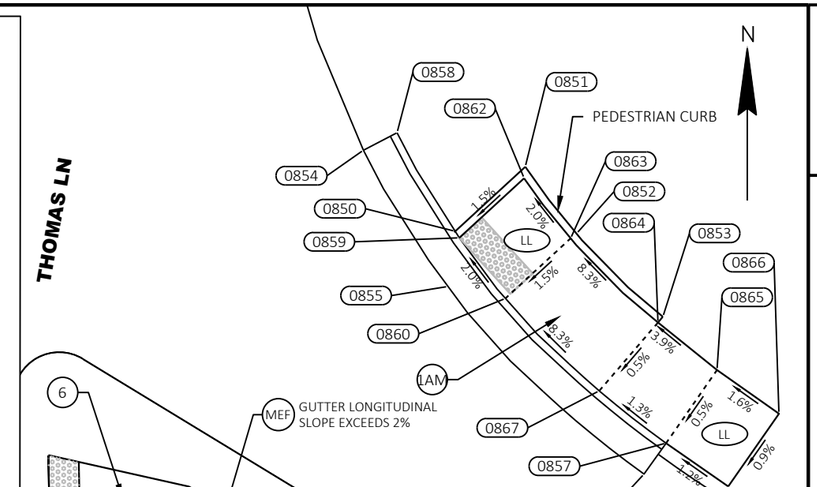
THOMAS NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0822	365+99.54	92.83' LT	839.91	170576.05	712850.30
0823	365+93.54	83.92' LT	840.07	170568.37	712842.79
0824	365+85.35	75.50' LT	840.18	170561.57	712833.22
0825	365+94.92	90.11' LT	840.37	170574.22	712845.27
0826	365+93.21	87.58' LT	840.02	170572.04	712843.13
0827	365+89.98	83.51' LT	839.99	170568.62	712839.22
0828	365+87.79	81.18' LT	840.71	170566.72	712836.64
0829	365+87.85	89.83' LT	840.35	170575.22	712838.27
0830	365+85.91	85.23' LT	840.30	170571.04	712835.53
0833	365+82.91	91.92' LT	840.43	170578.16	712833.78
0834	365+77.17	87.37' LT	840.49	170574.72	712827.31
0835	365+80.80	81.96' LT	840.39	170568.74	712829.91
0836	365+63.43	79.70' LT	841.00	170569.65	712812.42
0837	365+66.32	74.68' LT	840.90	170564.19	712814.36



LEGEND

	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
1AM	CURB RAMP TYPE 1A - MODIFIED
2	CURB RAMP TYPE 2
3	CURB RAMP TYPE 3
3M	CURB RAMP TYPE 3 - MODIFIED
4A1	CURB RAMP TYPE 4A1
4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER

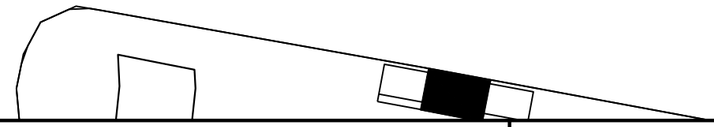
THOMAS LN



NE QUADRANT - THOMAS LN

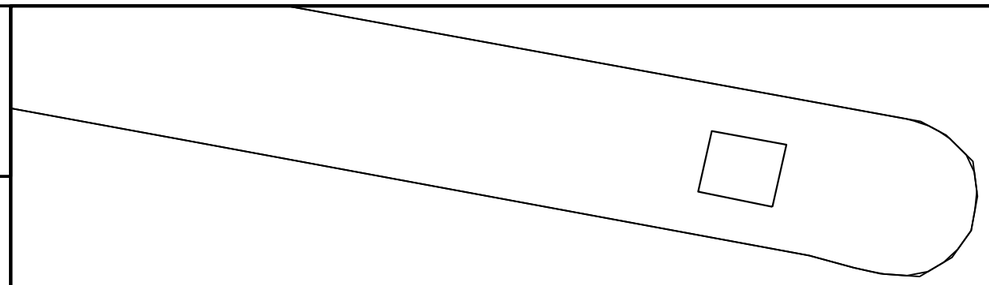
BLUEMOUND RD (USH 18)

THOMAS NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0850	367+07.72	92.32' LT	839.83	170556.07	712956.62
0851	367+11.51	97.34' LT	839.94	170560.32	712961.25
0852	367+15.62	93.62' LT	840.54	170555.92	712964.63
0853	367+22.22	89.25' LT	840.67	170550.44	712970.32
0854	367+00.80	96.50' LT	839.80	170561.42	712950.57
0855	367+07.91	88.67' LT	839.92	170552.44	712956.15
0856	367+22.87	78.82' LT	840.14	170540.06	712969.08
0857	367+23.93	81.08' LT	840.72	170542.09	712970.54
0858	367+02.78	98.03' LT	840.45	170562.58	712952.79
0859	367+08.07	91.95' LT	839.82	170555.64	712956.89
0860	367+11.78	88.57' LT	839.92	170551.65	712959.94
0861	367+28.48	79.01' LT	840.78	170539.24	712974.64
0862	367+11.56	96.59' LT	839.91	170559.57	712961.17
0863	367+15.30	93.24' LT	840.01	170555.61	712964.24
0864	367+21.97	88.82' LT	840.67	170550.06	712970.00



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - THOMAS LN	SHEET 149	E

2



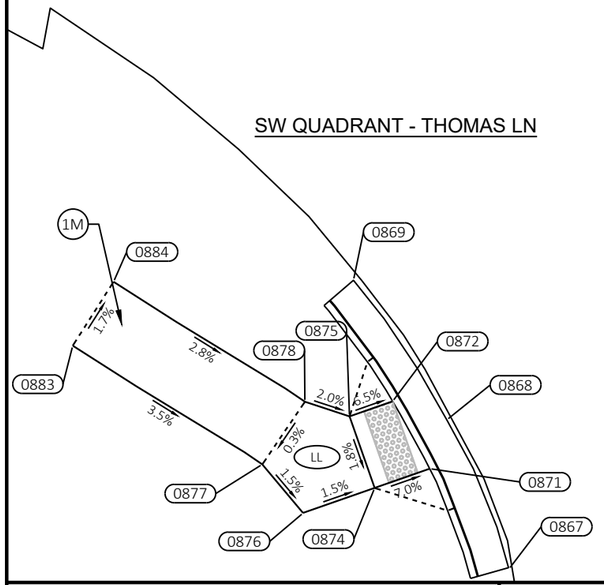
THOMAS SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0867	366+19.84	96.71' RT	839.38	170385.96	712836.12
0868	366+14.03	87.77' RT	839.45	170395.81	712832.02
0869	366+06.32	79.82' RT	839.54	170405.02	712825.86
0871	366+13.51	91.14' RT	839.45	170392.58	712830.89
0872	366+10.30	87.21' RT	839.62	170397.02	712828.45
0874	366+10.16	93.05' RT	839.72	170391.31	712827.26
0875	366+07.68	88.70' RT	839.81	170396.03	712825.60
0876	366+05.82	95.53' RT	839.80	170389.66	712822.54
0877	366+02.59	92.85' RT	839.86	170392.87	712819.85
0878	366+04.61	88.28' RT	839.87	170397.00	712822.66
0883	365+88.88	87.40' RT	840.38	170400.70	712807.34
0884	365+90.76	82.77' RT	840.30	170404.91	712810.03

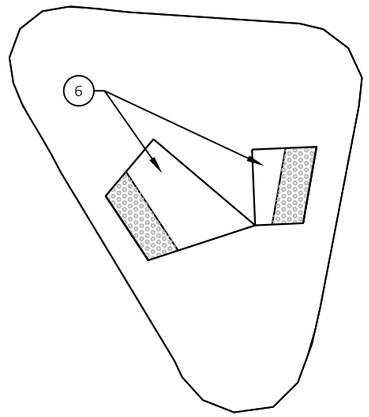
LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

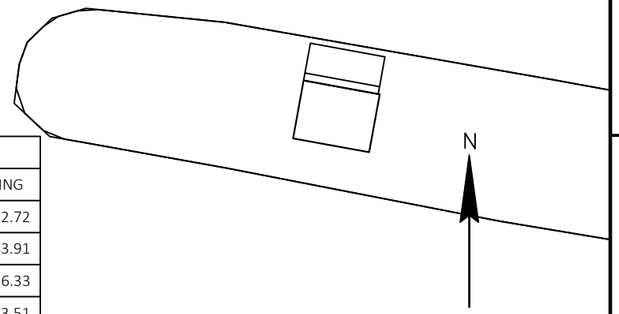
BLUEMOUND RD (USH 18)

SW QUADRANT - THOMAS LN

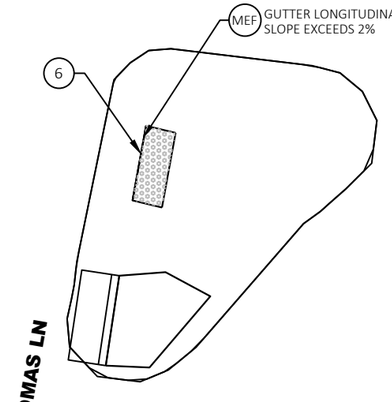




THOMAS LN



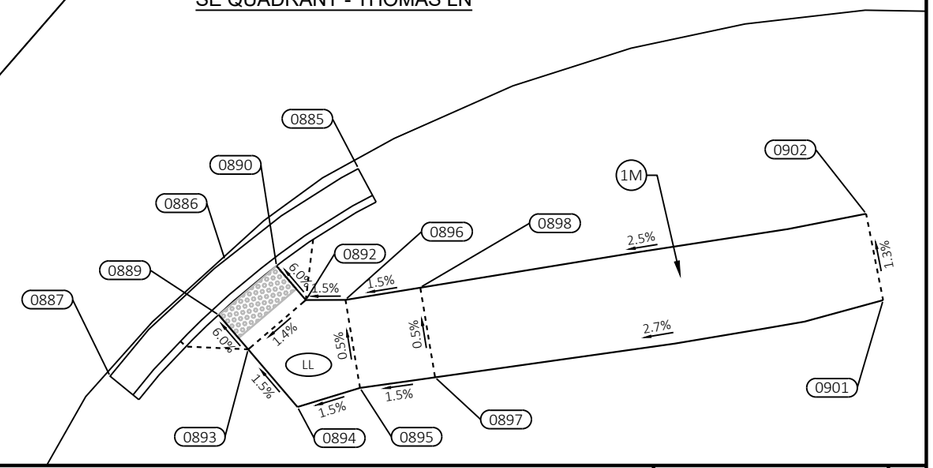
THOMAS SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0885	367+35.29	79.86' RT	840.03	170381.73	712952.72
0886	367+27.72	87.39' RT	839.83	170375.69	712943.91
0887	367+21.64	96.29' RT	839.61	170368.03	712936.33
0889	367+27.98	91.03' RT	840.04	170372.06	712943.51
0890	367+31.14	87.16' RT	840.11	170375.30	712947.31
0892	367+33.44	89.03' RT	840.29	170373.05	712949.24
0893	367+30.29	92.91' RT	840.22	170369.80	712945.44
0894	367+34.17	96.06' RT	840.29	170366.00	712948.69
0895	367+38.00	94.09' RT	840.36	170367.25	712952.82
0896	367+36.01	88.53' RT	840.33	170373.08	712951.86
0897	367+42.75	92.51' RT	840.43	170367.95	712957.77
0898	367+40.72	86.85' RT	840.41	170373.88	712956.80
0899	367+66.08	84.49' RT	841.30	170371.63	712982.16
0900	367+63.90	78.68' RT	841.21	170377.74	712981.07
0901	367+70.91	82.17' RT	841.24	170373.05	712987.34
0902	367+68.78	76.76' RT	841.16	170378.75	712986.22



THOMAS LN

BLUEMOUND RD (USH 18)

SE QUADRANT - THOMAS LN

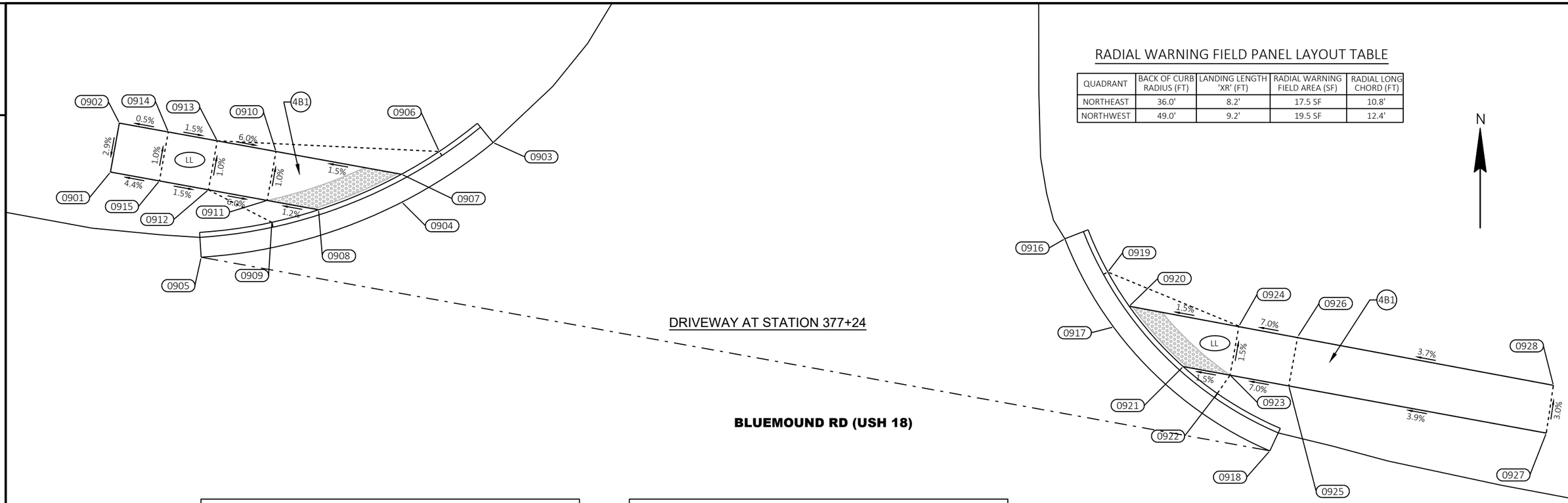


PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - THOMAS LN	SHEET 150	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Thom-sw-se

PLOT DATE : 3/14/2023 10:14 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHEAST	36.0'	8.2'	17.5 SF	10.8'
NORTHWEST	49.0'	9.2'	19.5 SF	12.4'

N DWY AT STATION 377+24					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0901	376+56.05	70.11' LT	854.46	170363.35	713885.42
0902	376+56.04	75.11' LT	854.60	170368.27	713886.31
0903	376+93.34	79.95' LT	854.51	170366.31	713923.87
0904	376+85.39	72.40' LT	854.36	170360.32	713914.70
0905	376+66.55	63.33' LT	854.21	170354.79	713894.54
0906	376+88.17	78.09' LT	854.60	170365.41	713918.46
0907	376+84.85	75.16' LT	854.38	170363.12	713914.67
0908	376+77.30	70.14' LT	854.30	170359.55	713906.33
0909	376+72.91	68.06' LT	854.51	170358.29	713901.64
0910	376+72.04	75.14' LT	854.19	170365.41	713902.06
0911	376+72.05	70.14' LT	854.24	170360.49	713901.16
0912	376+66.05	70.12' LT	854.60	170361.56	713895.26
0913	376+66.04	75.12' LT	854.55	170366.48	713896.15
0914	376+61.04	75.12' LT	854.62	170367.37	713891.23

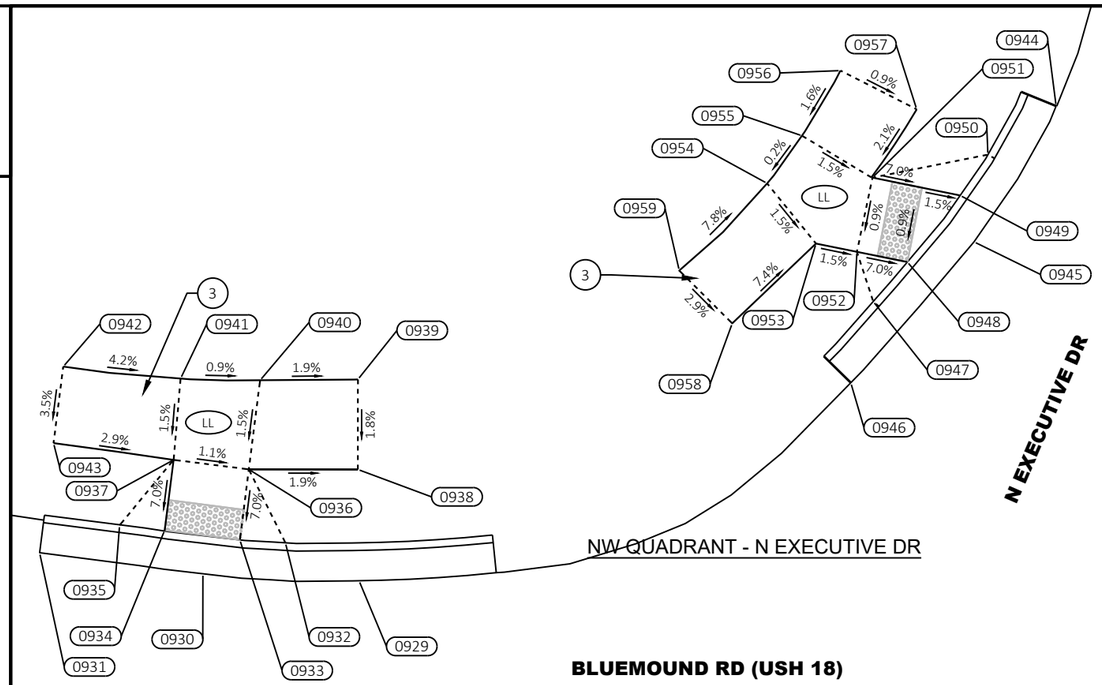
N DWY AT STATION 377+24					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0915	376+61.05	70.12' LT	854.67	170362.45	713890.34
0916	377+51.60	80.79' LT	855.28	170356.64	713981.34
0917	377+58.00	72.96' LT	855.64	170347.78	713986.22
0918	377+75.70	63.53' LT	856.08	170335.32	714001.94
0919	377+56.45	78.28' LT	855.83	170353.30	713985.65
0920	377+59.18	75.29' LT	855.57	170349.86	713987.80
0921	377+65.60	70.30' LT	855.74	170343.80	713993.22
0922	377+69.47	68.26' LT	855.94	170341.09	713996.66
0923	377+70.40	70.31' LT	855.81	170342.94	713997.94
0924	377+70.39	75.31' LT	855.74	170347.86	713998.83
0925	377+76.40	70.32' LT	856.23	170341.87	714003.84
0926	377+76.39	75.32' LT	856.16	170346.79	714004.73
0927	378+02.71	70.30' LT	857.27	170337.11	714029.72
0928	378+02.55	75.16' LT	857.12	170341.92	714030.43

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
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- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
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- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

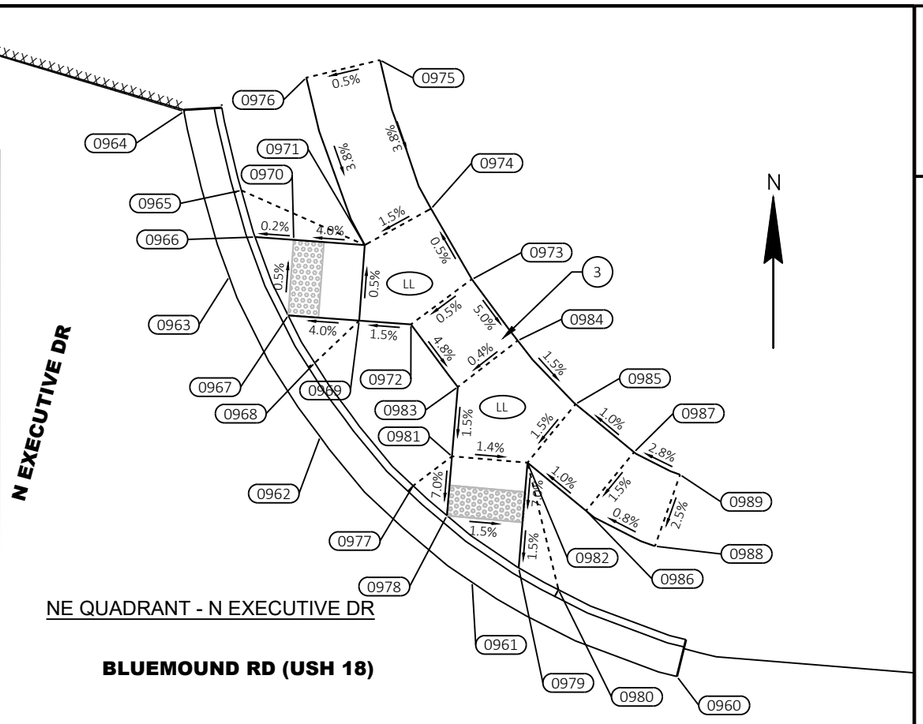
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N DWY AT STATION 377+24	SHEET 151	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Dwy14-n
PLOT DATE : 3/14/2023 10:14 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



LEGEND

	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
1AM	CURB RAMP TYPE 1A - MODIFIED
2	CURB RAMP TYPE 2
3	CURB RAMP TYPE 3
3M	CURB RAMP TYPE 3 - MODIFIED
4A1	CURB RAMP TYPE 4A1
4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER



EXECUTIVE NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0929	382+89.96	56.24' LT	857.97	170250.65	714504.26
0930	382+79.53	55.65' LT	858.19	170251.11	714493.96
0931	382+68.54	55.90' LT	858.43	170252.49	714483.18
0932	382+84.80	58.24' LT	858.45	170253.15	714499.40
0933	382+81.76	58.12' LT	858.12	170253.35	714496.40
0934	382+76.69	58.25' LT	858.18	170253.98	714491.44
0935	382+73.66	58.25' LT	858.68	170254.30	714488.46
0936	382+81.87	62.81' LT	858.45	170258.00	714496.99
0937	382+76.80	62.92' LT	858.51	170258.62	714492.03
0938	382+89.13	63.54' LT	858.31	170257.99	714504.18
0939	382+88.52	69.45' LT	858.42	170263.93	714504.19
0940	382+82.01	68.73' LT	858.54	170263.87	714497.73
0941	382+76.70	68.31' LT	858.59	170263.99	714492.49
0942	382+68.80	68.28' LT	858.91	170264.78	714484.74
0943	382+68.69	63.19' LT	858.74	170259.73	714484.11
0944	383+33.44	91.84' LT	856.24	170281.97	714550.26
0945	383+28.77	82.42' LT	856.49	170273.01	714544.84
0946	383+21.42	72.40' LT	856.83	170263.71	714536.71
0947	383+22.41	77.88' LT	857.15	170269.07	714538.19
0948	383+24.44	80.68' LT	856.54	170271.68	714540.44

EXECUTIVE NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0949	383+27.56	85.39' LT	856.55	170276.07	714543.93
0950	383+29.16	88.23' LT	856.77	170278.76	714545.76
0951	383+21.58	86.01' LT	856.82	170277.24	714538.14
0952	383+21.00	81.04' LT	856.78	170272.35	714537.12
0953	383+18.21	81.33' LT	856.82	170272.90	714534.42
0954	383+14.56	84.97' LT	856.89	170276.86	714531.19
0955	383+16.61	88.32' LT	856.90	170280.00	714533.51
0956	383+18.75	92.85' LT	856.98	170284.31	714536.03
0957	383+24.11	90.78' LT	856.93	170281.75	714541.06
0958	383+13.13	75.56' LT	857.38	170267.63	714528.89
0959	383+09.25	78.69' LT	857.53	170271.11	714525.39

EXECUTIVE NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0960	384+44.16	53.05' LT	854.15	170234.65	714655.81
0961	384+30.08	58.32' LT	854.60	170240.86	714642.29
0962	384+19.24	67.18' LT	854.99	170250.46	714632.27
0963	384+12.38	77.26' LT	855.08	170261.01	714626.27
0964	384+08.51	87.92' LT	855.00	170271.93	714623.28
0965	384+12.76	83.00' LT	855.29	170266.72	714627.07
0966	384+13.90	80.00' LT	855.03	170263.64	714627.97
0967	384+16.51	75.01' LT	855.06	170258.47	714630.16
0968	384+18.51	72.01' LT	855.44	170255.33	714631.91
0969	384+21.29	75.01' LT	855.25	170258.13	714634.85
0970	384+16.51	80.01' LT	855.03	170263.46	714630.52
0971	384+21.29	80.01' LT	855.22	170263.11	714635.21
0972	384+24.77	75.00' LT	855.30	170257.88	714638.26
0973	384+28.64	78.25' LT	855.32	170260.84	714642.29
0974	384+25.55	82.71' LT	855.30	170265.51	714639.58
0975	384+21.41	92.25' LT	855.69	170275.32	714636.22
0976	384+16.55	90.74' LT	855.67	170274.16	714631.35

EXECUTIVE NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0977	384+25.69	64.40' LT	854.78	170247.23	714638.41
0978	384+28.09	62.59' LT	854.71	170245.26	714640.64
0979	384+33.11	59.48' LT	854.59	170241.81	714645.36
0980	384+35.87	58.22' LT	854.88	170240.37	714647.99
0981	384+28.14	66.51' LT	854.98	170249.17	714640.97
0982	384+33.21	66.45' LT	854.91	170248.76	714645.95
0983	384+28.20	71.10' LT	855.05	170253.75	714641.35
0984	384+31.99	74.44' LT	855.07	170256.81	714645.30
0985	384+36.15	70.52' LT	854.98	170252.62	714649.12
0986	384+37.34	63.55' LT	854.96	170245.58	714649.81
0987	384+40.29	67.62' LT	855.03	170249.45	714652.99
0988	384+42.11	61.53' LT	855.00	170243.24	714654.36
0989	384+43.46	66.35' LT	855.13	170247.96	714656.01

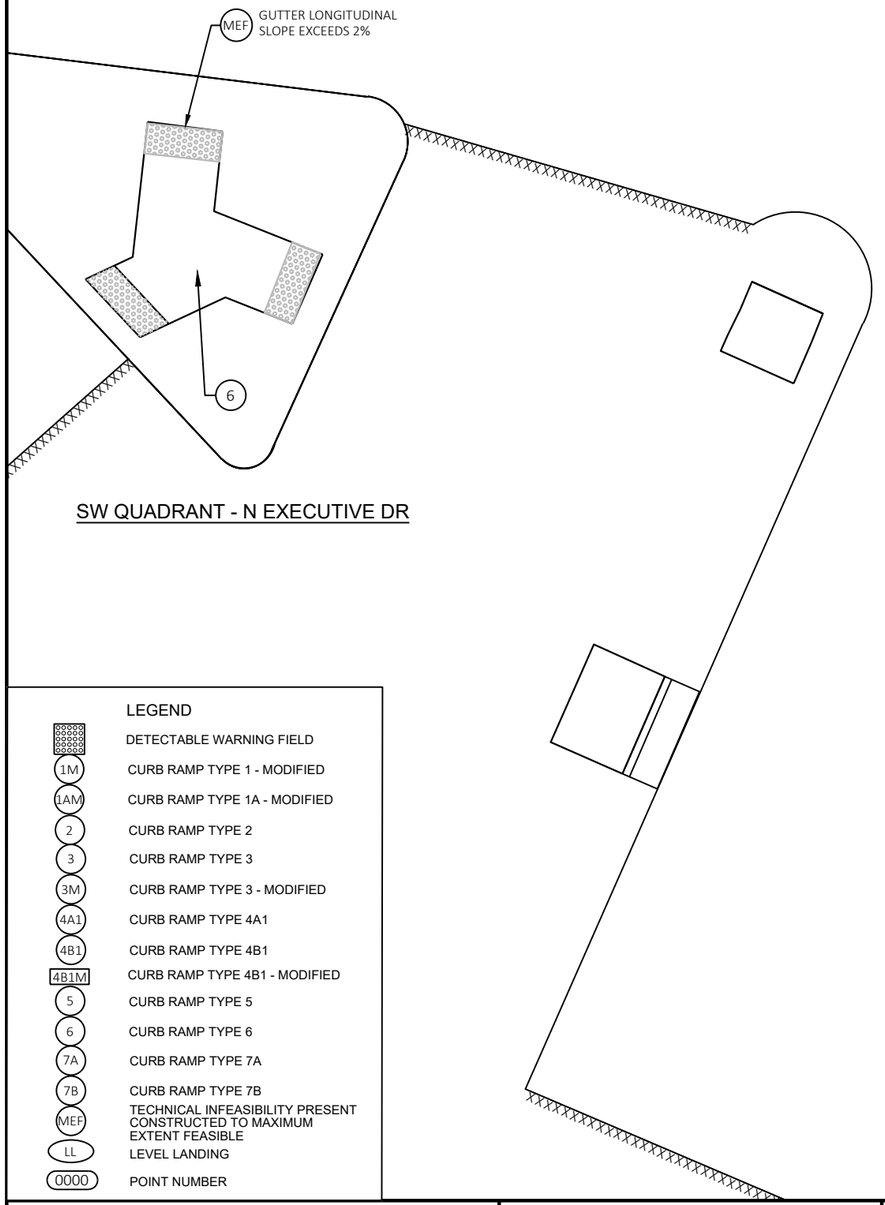
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N EXECUTIVE DR	SHEET 152	E

2

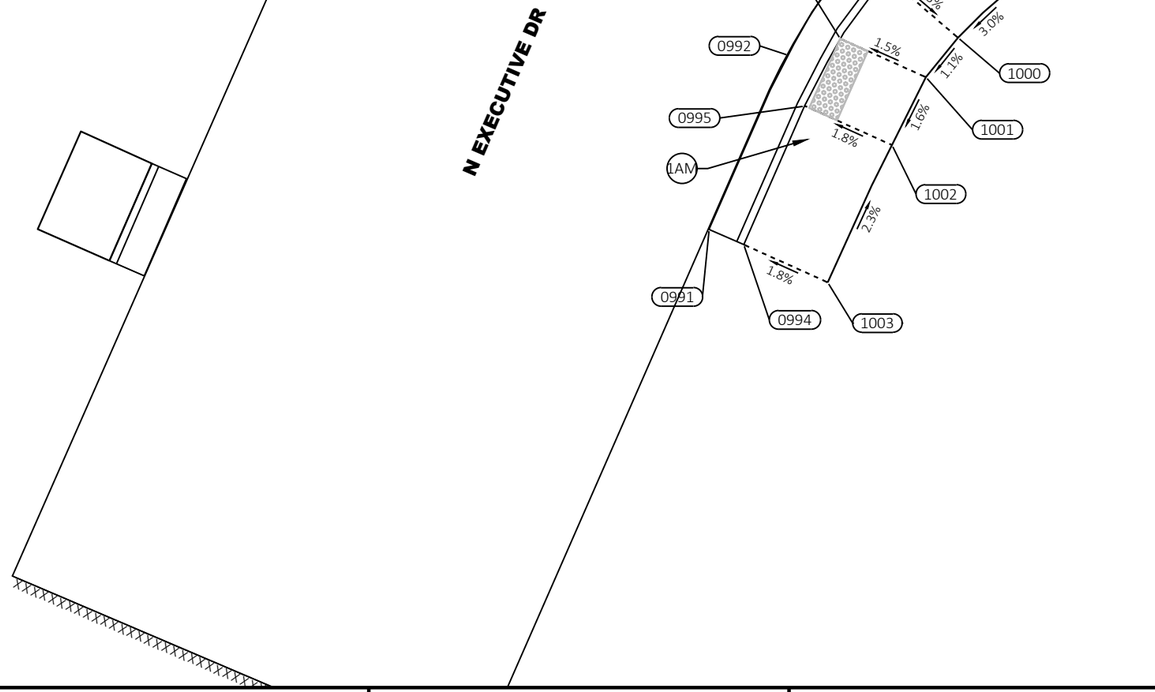
N

BLUEMOUND RD (USH 18)

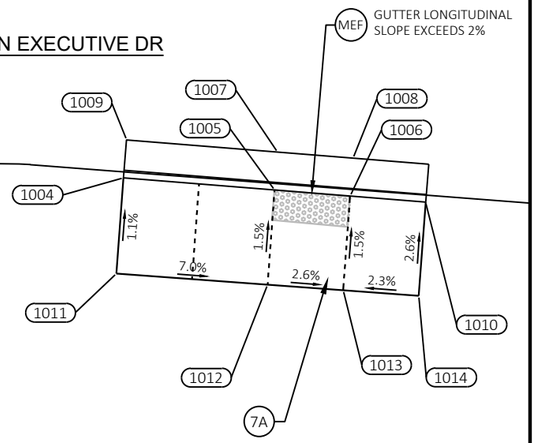
EXECUTIVE SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1006	384+04.10	82.66' RT	856.12	170102.18	714605.99
1007	383+99.19	80.14' RT	856.25	170105.07	714601.20
1008	384+04.11	80.16' RT	856.11	170104.67	714606.19
1009	383+89.36	80.12' RT	856.59	170105.87	714591.23
1010	384+09.01	82.68' RT	856.17	170101.78	714610.97
1011	383+89.40	88.95' RT	857.05	170097.07	714590.57
1012	383+99.21	88.90' RT	856.34	170096.33	714600.54
1013	384+04.11	88.88' RT	856.21	170095.97	714605.53
1014	384+09.02	88.87' RT	856.33	170095.60	714610.51



SW QUADRANT - N EXECUTIVE DR



SE QUADRANT - N EXECUTIVE DR



EXECUTIVE SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
0991	383+42.74	117.95' RT	857.21	170072.20	714540.58
0992	383+46.81	106.04' RT	857.52	170083.68	714545.80
0993	383+54.21	94.47' RT	857.57	170094.55	714554.34
0994	383+45.05	118.74' RT	857.63	170071.19	714542.87
0995	383+48.16	109.29' RT	857.40	170080.33	714546.88
0996	383+50.07	104.65' RT	857.50	170084.78	714549.24
0997	383+52.74	100.30' RT	857.65	170088.87	714552.34
0998	383+56.01	96.17' RT	857.57	170092.69	714556.02
0999	383+60.56	100.60' RT	857.76	170087.89	714560.28
1000	383+57.64	103.91' RT	857.63	170084.84	714557.02
1001	383+55.80	106.69' RT	857.59	170082.24	714554.90
1002	383+54.00	111.34' RT	857.51	170077.76	714552.66
1003	383+50.65	120.73' RT	857.74	170068.70	714548.42
1004	383+89.36	82.62' RT	856.98	170103.38	714591.03
1005	383+99.18	82.64' RT	856.25	170102.58	714601.00

LEGEND

- DETECTABLE WARNING FIELD
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- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N EXECUTIVE DRIVE	SHEET 153	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Exec-se
PLOT DATE : 3/14/2023 2:05 PM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

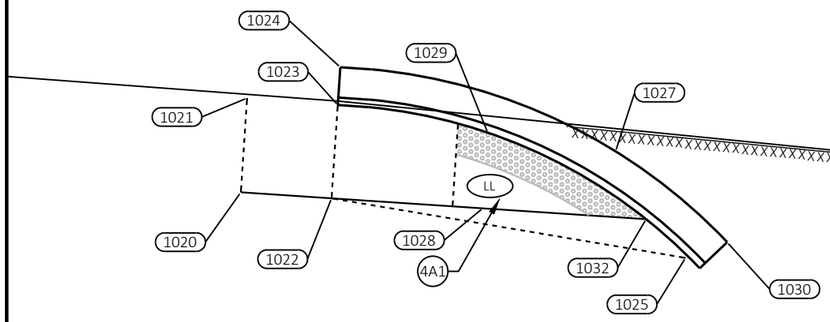
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BLUEMOUND RD (USH 18)

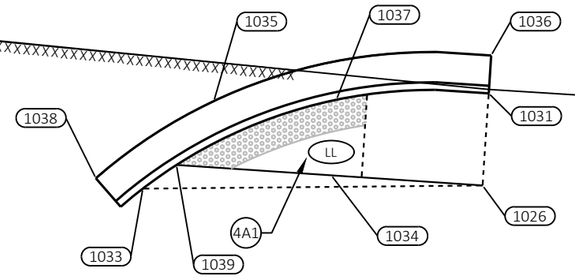
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RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	31.0'	13.4'	22.9 SF	12.2'
SOUTHWEST	34.5'	13.9'	23.8 SF	12.8'



DRIVEWAY AT STATION 387+00



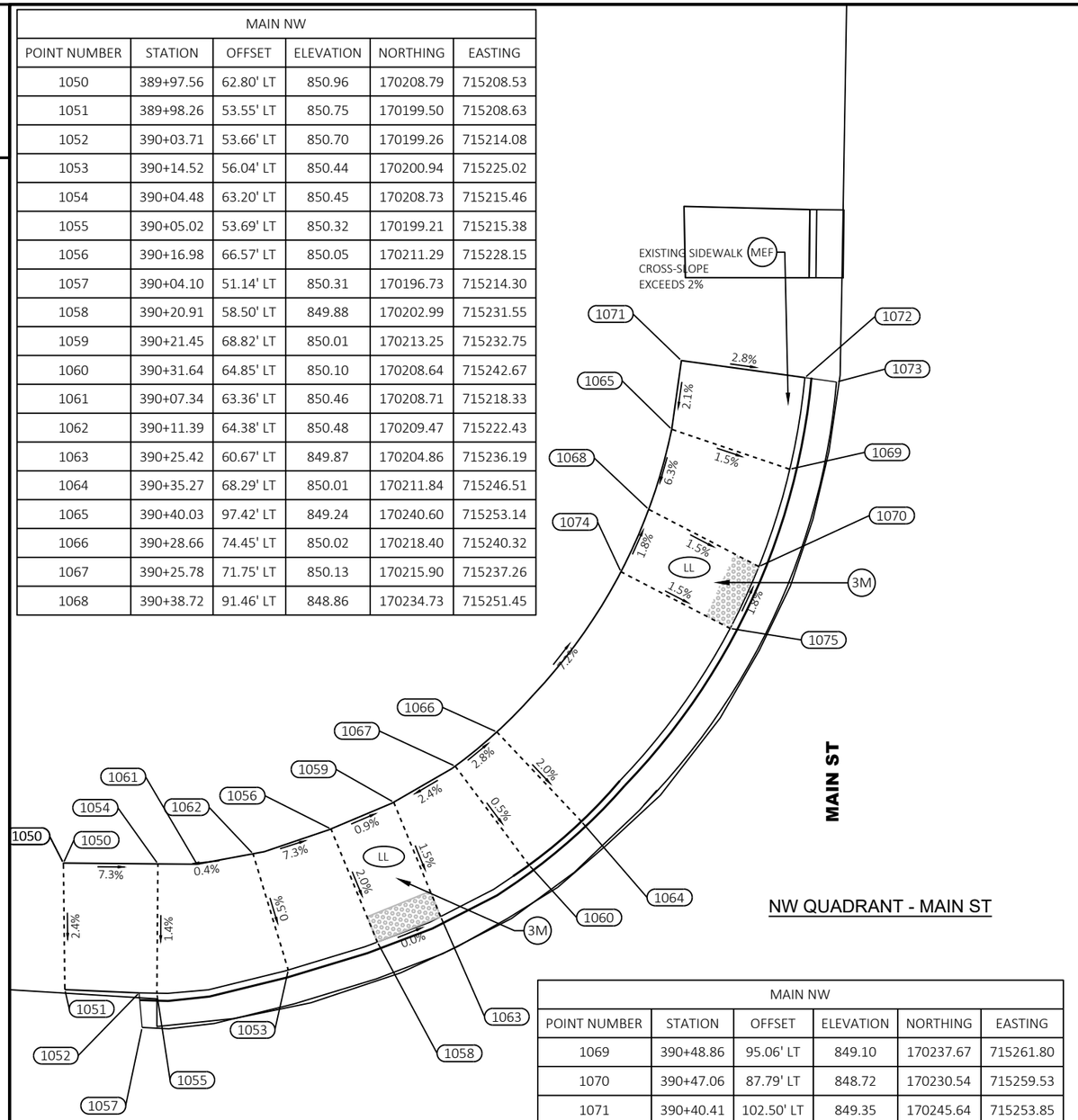
S DWY AT STATION 387+00					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1020	386+33.55	90.96' RT	852.33	170078.75	714835.38
1021	386+33.56	84.72' RT	852.06	170084.97	714835.79
1022	386+39.55	90.97' RT	852.03	170078.35	714841.37
1023	386+39.56	84.80' RT	851.96	170084.51	714841.78
1024	386+39.57	82.30' RT	851.62	170087.00	714841.95
1025	386+63.11	93.39' RT	851.50	170074.42	714864.73
1026	387+53.40	94.82' RT	851.44	170067.19	714954.74
1027	386+58.05	86.68' RT	851.36	170081.45	714860.10
1028	386+49.55	90.99' RT	851.33	170077.69	714851.35
1029	386+49.56	85.99' RT	851.26	170082.68	714851.68
1030	386+65.78	92.18' RT	851.25	170075.46	714867.47

LEGEND

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- LL — LEVEL LANDING
- 0000 — POINT NUMBER

S DWY AT STATION 387+00					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1031	387+53.42	88.72' RT	851.17	170073.27	714955.15
1032	386+60.35	91.01' RT	851.16	170076.97	714862.12
1033	387+31.04	96.47' RT	851.08	170066.98	714932.32
1034	387+43.40	94.79' RT	850.85	170067.86	714944.76
1035	387+35.35	90.40' RT	850.84	170072.76	714937.00
1036	387+53.42	86.22' RT	850.83	170075.77	714955.31
1037	387+43.41	89.79' RT	850.83	170072.85	714945.10
1038	387+27.91	95.98' RT	850.75	170067.67	714929.22
1039	387+33.16	94.76' RT	850.70	170068.55	714934.54

MAIN NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1050	389+97.56	62.80' LT	850.96	170208.79	715208.53
1051	389+98.26	53.55' LT	850.75	170199.50	715208.63
1052	390+03.71	53.66' LT	850.70	170199.26	715214.08
1053	390+14.52	56.04' LT	850.44	170200.94	715225.02
1054	390+04.48	63.20' LT	850.45	170208.73	715215.46
1055	390+05.02	53.69' LT	850.32	170199.21	715215.38
1056	390+16.98	66.57' LT	850.05	170211.29	715228.15
1057	390+04.10	51.14' LT	850.31	170196.73	715214.30
1058	390+20.91	58.50' LT	849.88	170202.99	715231.55
1059	390+21.45	68.82' LT	850.01	170213.25	715232.75
1060	390+31.64	64.85' LT	850.10	170208.64	715242.67
1061	390+07.34	63.36' LT	850.46	170208.71	715218.33
1062	390+11.39	64.38' LT	850.48	170209.47	715222.43
1063	390+25.42	60.67' LT	849.87	170204.86	715236.19
1064	390+35.27	68.29' LT	850.01	170211.84	715246.51
1065	390+40.03	97.42' LT	849.24	170240.60	715253.14
1066	390+28.66	74.45' LT	850.02	170218.40	715240.32
1067	390+25.78	71.75' LT	850.13	170215.90	715237.26
1068	390+38.72	91.46' LT	848.86	170234.73	715251.45

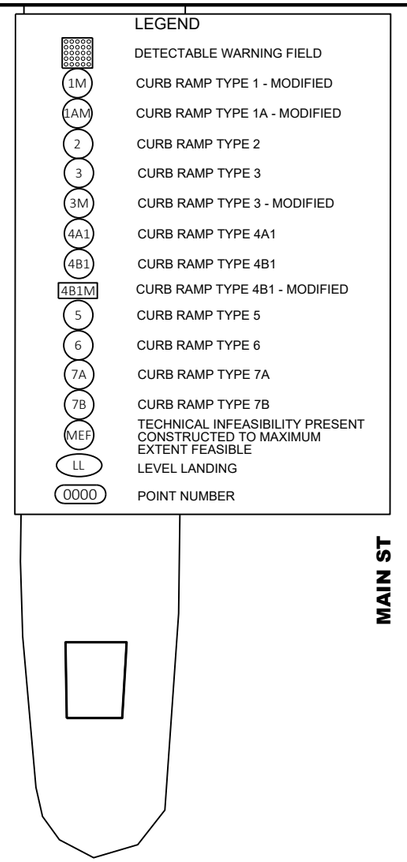


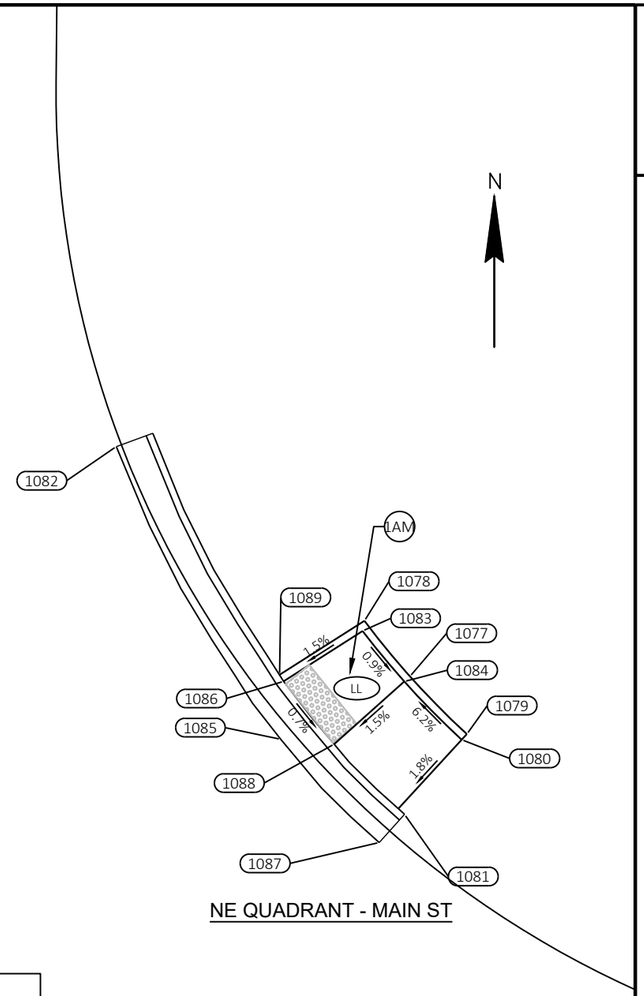
NW QUADRANT - MAIN ST

MAIN NW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1069	390+48.86	95.06' LT	849.10	170237.67	715261.80
1070	390+47.06	87.79' LT	848.72	170230.54	715259.53
1071	390+40.41	102.50' LT	849.35	170245.64	715253.85
1072	390+49.53	101.83' LT	849.09	170244.39	715262.90
1073	390+51.87	101.66' LT	0.00	170244.07	715265.22
1074	390+36.99	86.76' LT	848.95	170230.15	715249.42
1075	390+45.24	83.13' LT	848.81	170226.00	715257.42

LEGEND

	DETECTABLE WARNING FIELD
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7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER





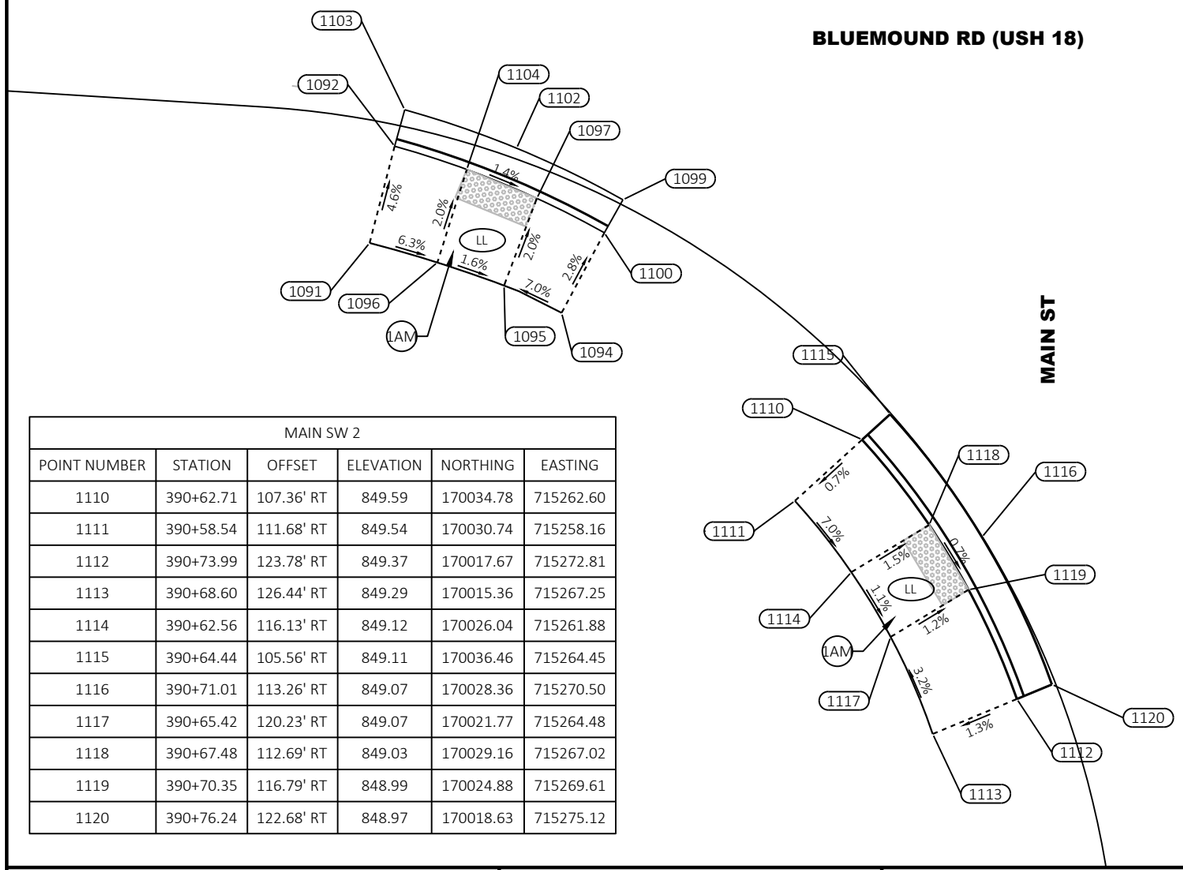
NE QUADRANT - MAIN ST

MAIN NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1077	391+42.49	90.84' LT	848.61	170227.45	715354.96
1078	391+39.26	94.31' LT	848.15	170231.11	715351.96
1079	391+46.48	87.29' LT	848.45	170223.64	715358.72
1080	391+46.17	86.90' LT	848.45	170223.27	715358.38
1081	391+42.72	81.74' LT	848.35	170218.35	715354.60
1082	391+22.18	104.73' LT	848.30	170242.61	715335.58
1083	391+39.18	93.63' LT	848.15	170230.45	715351.84
1084	391+42.14	90.49' LT	848.11	170227.11	715354.59
1085	391+34.24	86.16' LT	848.11	170223.30	715346.43
1086	391+34.19	89.98' LT	848.06	170227.12	715346.63
1087	391+41.17	79.78' LT	848.03	170216.49	715352.93
1088	391+37.79	86.06' LT	848.02	170222.98	715349.96
1089	391+33.89	90.39' LT	848.06	170227.55	715346.35

MAIN SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1091	390+29.44	96.50' RT	849.62	170047.76	715230.09
1092	390+30.67	90.03' RT	849.32	170054.14	715231.75
1094	390+42.38	100.28' RT	849.52	170043.15	715242.77
1095	390+38.47	98.73' RT	849.22	170044.95	715238.97
1096	390+33.98	97.50' RT	849.30	170046.47	715234.57
1097	390+40.26	92.85' RT	849.10	170050.71	715241.13
1099	390+45.94	92.58' RT	849.23	170050.61	715246.81
1100	390+44.86	94.83' RT	849.35	170048.43	715245.59
1102	390+38.71	89.63' RT	849.27	170054.02	715239.79
1103	390+31.19	87.58' RT	0.00	170056.55	715232.41
1104	390+35.53	91.25' RT	849.17	170052.61	715236.51

SW QUADRANT - MAIN ST

BLUEMOUND RD (USH 18)



MAIN SW 2					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1110	390+62.71	107.36' RT	849.59	170034.78	715262.60
1111	390+58.54	111.68' RT	849.54	170030.74	715258.16
1112	390+73.99	123.78' RT	849.37	170017.67	715272.81
1113	390+68.60	126.44' RT	849.29	170015.36	715267.25
1114	390+62.56	116.13' RT	849.12	170026.04	715261.88
1115	390+64.44	105.56' RT	849.11	170036.46	715264.45
1116	390+71.01	113.26' RT	849.07	170028.36	715270.50
1117	390+65.42	120.23' RT	849.07	170021.77	715264.48
1118	390+67.48	112.69' RT	849.03	170029.16	715267.02
1119	390+70.35	116.79' RT	848.99	170024.88	715269.61
1120	390+76.24	122.68' RT	848.97	170018.63	715275.12

MAIN SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1130	391+79.68	117.06' RT	847.70	170017.59	715378.70
1131	391+94.09	98.84' RT	847.46	170034.84	715394.26
1132	391+81.58	113.08' RT	847.35	170021.43	715380.85
1133	391+90.69	101.54' RT	847.30	170032.36	715390.69
1134	391+76.08	110.16' RT	847.29	170024.70	715375.56
1135	391+86.57	96.88' RT	847.24	170037.28	715386.88
1136	391+90.48	93.77' RT	847.18	170040.13	715390.98
1137	391+71.66	113.73' RT	847.16	170021.42	715370.92
1138	391+84.13	108.91' RT	847.01	170025.43	715383.66
1139	391+78.77	101.49' RT	846.99	170033.18	715378.80
1140	391+87.22	104.99' RT	846.96	170029.15	715387.01
1141	391+79.23	105.05' RT	846.92	170029.60	715379.03
1142	391+82.33	101.12' RT	846.89	170033.31	715382.37
1143	391+89.03	91.73' RT	846.81	170042.26	715389.67
1144	391+73.97	114.69' RT	0.00	170020.32	715373.16

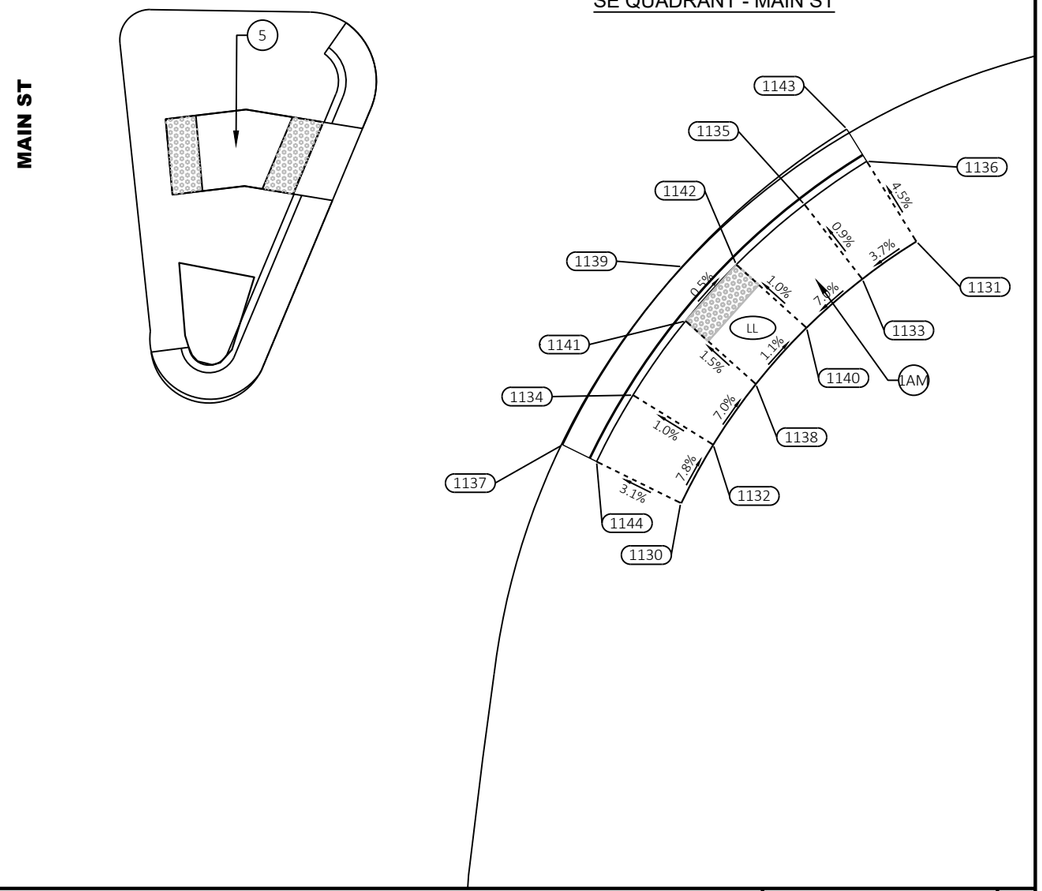
LEGEND

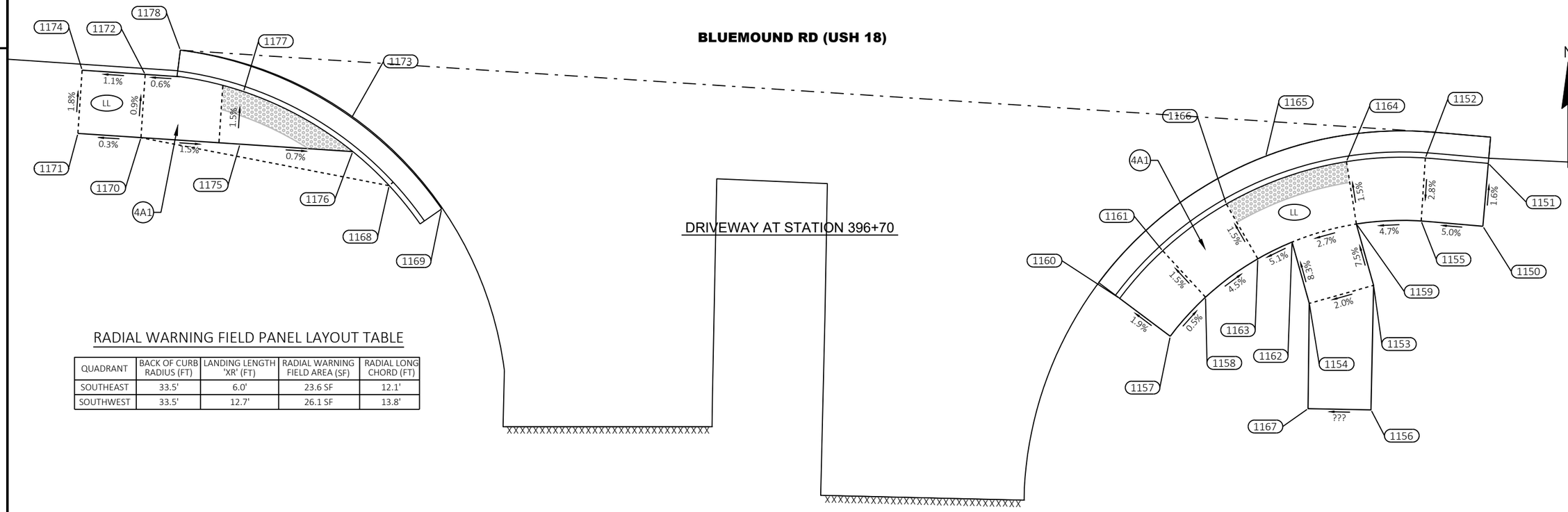
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- LL — LEVEL LANDING
- 0000 — POINT NUMBER

N

BLUEMOUND RD (USH 18)

SE QUADRANT - MAIN ST





RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	33.5'	6.0'	23.6 SF	12.1'
SOUTHWEST	33.5'	12.7'	26.1 SF	13.8'

S DWY AT STATION 396+70

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1150	397+36.90	91.12' RT	847.02	170007.64	715936.44
1151	397+37.03	85.12' RT	846.92	170013.61	715936.96
1152	397+31.03	84.99' RT	846.89	170014.13	715930.98
1153	397+26.91	97.38' RT	846.88	170002.03	715926.07
1154	397+20.93	99.49' RT	846.76	170000.31	715919.96
1155	397+31.03	90.99' RT	846.72	170008.14	715930.58
1156	397+27.42	109.20' RT	848.18	169990.20	715925.82
1157	397+07.95	103.45' RT	846.37	169997.19	715906.76
1158	397+11.06	99.53' RT	846.35	170000.90	715910.11
1159	397+24.91	91.67' RT	846.43	170007.86	715924.43
1160	397+02.91	100.15' RT	846.26	170000.81	715901.94
1161	397+06.71	95.39' RT	846.26	170005.31	715906.04
1162	397+18.92	93.78' RT	846.26	170006.14	715918.33
1163	397+15.78	95.58' RT	846.07	170004.55	715915.07
1164	397+23.58	85.82' RT	846.34	170013.78	715923.49

S DWY AT STATION 396+70

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1165	397+15.91	85.80' RT	846.20	170014.29	715915.83
1166	397+12.46	90.58' RT	845.98	170009.75	715912.09
1167	397+21.46	109.47' RT	848.18	169990.31	715919.85
1168	396+33.03	93.95' RT	845.40	170011.49	715832.61
1169	396+38.14	95.83' RT	845.17	170009.28	715837.58
1170	396+09.22	90.91' RT	845.14	170016.05	715809.03
1171	396+03.22	90.90' RT	845.12	170016.46	715803.05
1172	396+09.23	84.89' RT	845.08	170022.06	715809.44
1173	396+29.06	87.73' RT	845.03	170017.95	715829.04
1174	396+03.23	84.87' RT	845.01	170022.47	715803.45
1175	396+18.64	90.92' RT	844.99	170015.44	715818.44
1176	396+29.37	90.94' RT	844.92	170014.73	715829.14
1177	396+18.65	85.92' RT	844.92	170020.43	715818.77
1178	396+12.42	82.38' RT	844.76	170024.36	715812.78

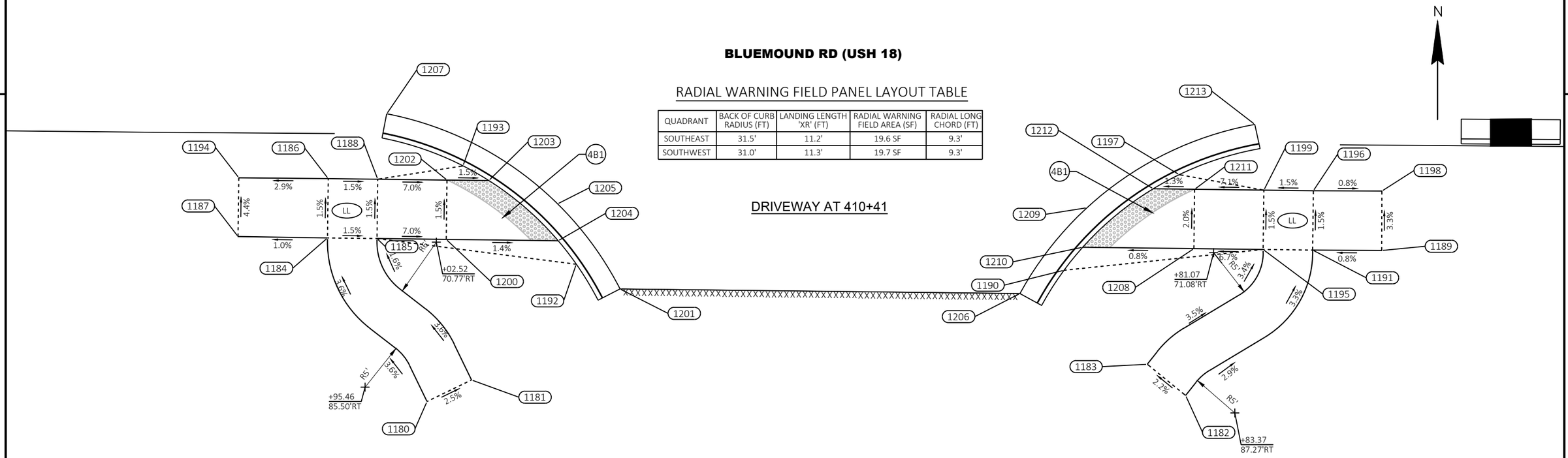
LEGEND

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- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - S DWY AT STATION 396+70	SHEET 157	E

2

BLUEMOUND RD (USH 18)



RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	31.5'	11.2'	19.6 SF	9.3'
SOUTHWEST	31.0'	11.3'	19.7 SF	9.3'

DRIVEWAY AT 410+41

S DWY AT STATION 410+41

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1180	410+01.73	86.89' RT	857.06	169987.30	717205.87
1181	410+06.21	84.67' RT	856.94	169989.48	717210.37
1182	410+78.37	85.54' RT	856.83	169987.92	717282.52
1183	410+74.48	82.43' RT	856.73	169991.07	717278.65
1184	409+91.52	70.44' RT	856.51	170003.84	717195.82
1185	409+96.52	70.46' RT	856.43	170003.78	717200.82
1186	409+91.54	64.44' RT	856.42	170009.84	717195.89
1187	409+82.48	70.39' RT	856.41	170003.99	717186.77
1188	409+96.54	64.46' RT	856.34	170009.78	717200.89
1189	410+98.05	70.70' RT	856.27	170002.57	717302.34
1190	410+65.97	73.00' RT	856.26	170000.57	717270.23
1191	410+91.07	70.72' RT	856.21	170002.62	717295.36
1192	410+16.68	72.86' RT	856.19	170001.18	717220.95
1193	410+05.14	63.03' RT	856.16	170011.13	717209.51
1194	409+82.50	64.45' RT	856.15	170009.93	717186.85

S DWY AT STATION 410+41

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1195	410+86.07	70.71' RT	856.14	170002.68	717290.36
1196	410+91.09	64.72' RT	856.12	170008.62	717295.43
1197	410+77.52	63.22' RT	856.11	170010.25	717281.88
1198	410+98.02	64.69' RT	856.07	170008.58	717302.36
1199	410+86.09	64.71' RT	856.05	170008.68	717290.43
1200	410+03.52	70.48' RT	855.94	170003.70	717207.81
1201	410+21.12	75.32' RT	855.85	169998.69	717225.36
1202	410+03.54	64.48' RT	855.85	170009.70	717207.89
1203	410+07.76	64.49' RT	855.79	170009.64	717212.11
1204	410+14.82	70.51' RT	855.78	170003.56	717219.11
1205	410+14.73	66.78' RT	855.76	170007.29	717219.06
1206	410+61.54	75.40' RT	855.76	169998.22	717265.78
1207	409+97.38	57.83' RT	855.69	170016.40	717201.80
1208	410+79.07	70.69' RT	855.67	170002.76	717283.36
1209	410+68.23	66.66' RT	855.59	170006.89	717272.55

S DWY AT STATION 410+41

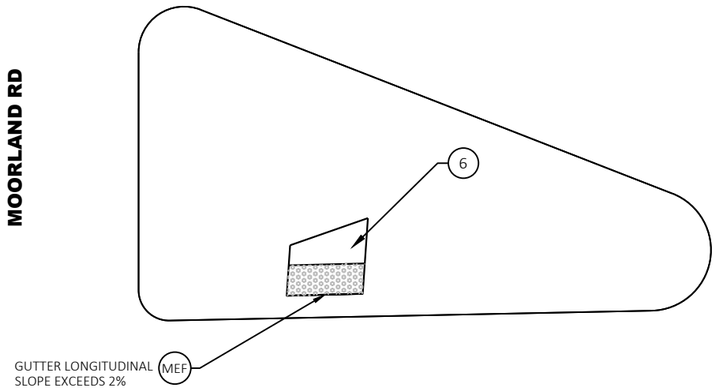
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1210	410+67.84	70.66' RT	855.58	170002.90	717272.13
1211	410+79.09	64.69' RT	855.55	170008.76	717283.43
1212	410+74.90	64.68' RT	855.50	170008.82	717279.24
1213	410+85.11	58.07' RT	855.39	170015.33	717289.52

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - S DWY AT STATION 410+41	SHEET 158	E

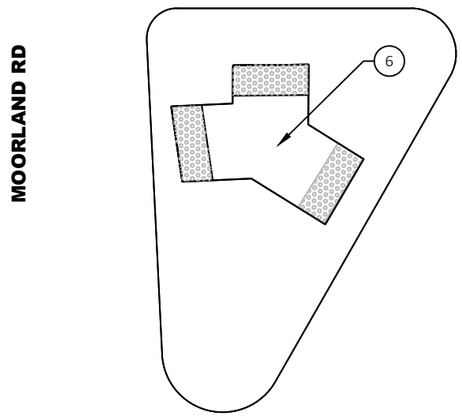
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Dwy17-s
PLOT DATE : 3/14/2023 10:16 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



NE QUADRANT - MOORLAND RD

BLUEMOUND RD (USH 18)

BLUEMOUND RD (USH 18)

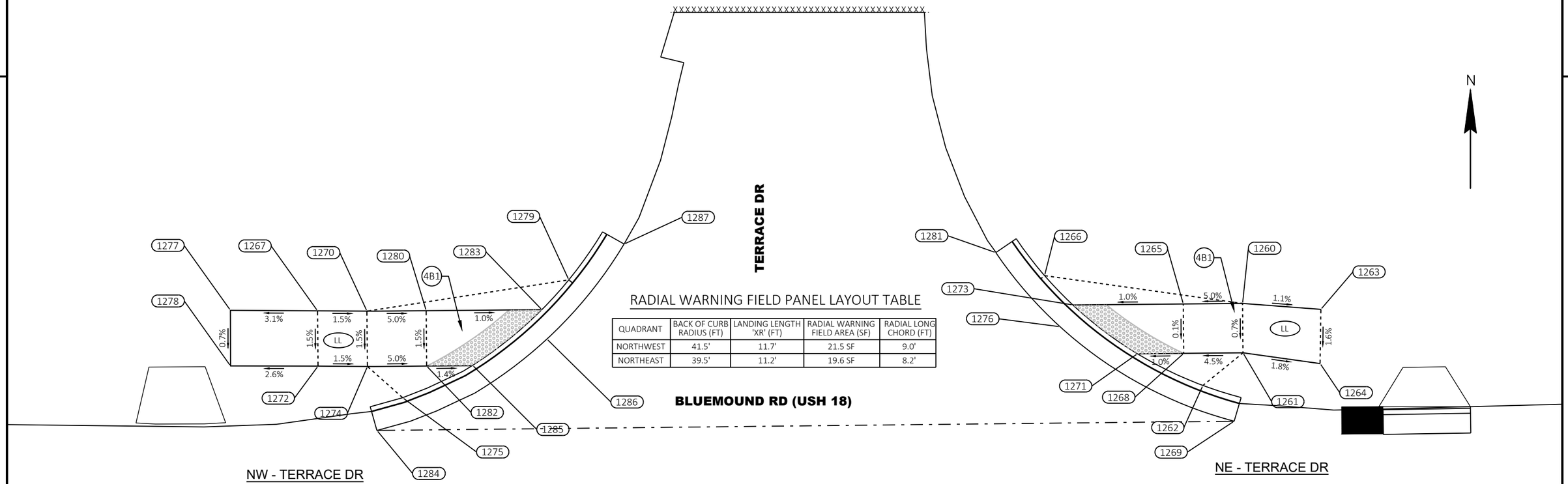


SE QUADRANT - MOORLAND RD

LEGEND

	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
1AM	CURB RAMP TYPE 1A - MODIFIED
2	CURB RAMP TYPE 2
3	CURB RAMP TYPE 3
3M	CURB RAMP TYPE 3 - MODIFIED
4A1	CURB RAMP TYPE 4A1
4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - S DWY AT STATION 396+70	SHEET 159 E



RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	41.5'	11.7'	21.5 SF	9.0'
NORTHEAST	39.5'	11.2'	19.6 SF	8.2'

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

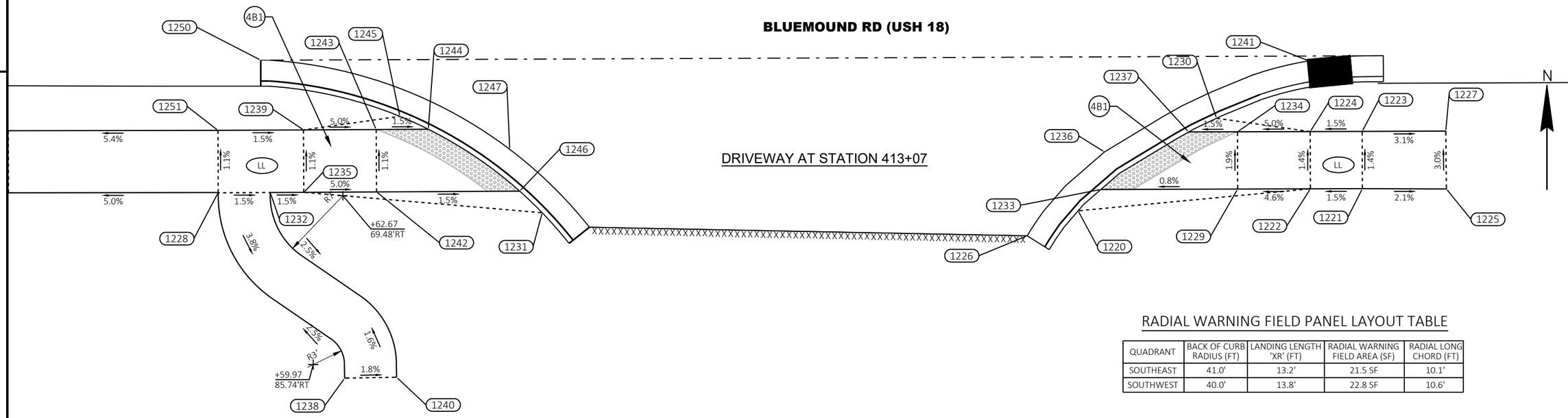
TERRACE NW & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1260	417+38.61	64.01' LT	859.38	170133.14	717941.75
1261	417+38.51	59.01' LT	859.34	170128.14	717941.80
1262	417+34.28	55.82' LT	859.30	170124.83	717937.74
1263	417+46.69	63.19' LT	859.29	170132.54	717949.68
1264	417+46.44	57.70' LT	859.20	170127.05	717949.60
1265	417+32.47	64.12' LT	859.08	170133.08	717935.75
1266	417+18.17	67.32' LT	859.11	170135.96	717921.71
1267	416+42.79	64.30' LT	859.10	170132.39	717848.09
1268	417+32.39	59.12' LT	859.07	170128.08	717935.80
1269	417+37.40	52.12' LT	859.08	170121.21	717940.90
1270	416+47.90	64.29' LT	859.03	170132.36	717853.09
1271	417+27.59	59.19' LT	859.02	170128.04	717931.11
1272	416+42.87	58.70' LT	859.02	170126.79	717848.14
1273	417+21.03	64.28' LT	858.96	170132.98	717924.57
1274	416+47.98	58.68' LT	858.94	170126.75	717853.14

TERRACE NW & NE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1275	416+51.63	55.54' LT	858.93	170123.59	717856.71
1276	417+19.65	62.11' LT	858.89	170130.78	717923.27
1277	416+33.77	64.29' LT	858.83	170132.44	717839.27
1278	416+33.83	58.66' LT	858.79	170126.81	717839.28
1279	416+68.83	67.47' LT	858.77	170135.53	717873.53
1280	416+54.04	64.35' LT	858.73	170132.40	717859.09
1281	417+13.15	69.75' LT	858.70	170138.29	717916.77
1282	416+54.10	58.75' LT	858.64	170126.80	717859.14
1283	416+66.02	64.45' LT	858.61	170132.50	717870.80
1284	416+48.99	52.21' LT	858.59	170120.27	717854.11
1285	416+58.86	58.83' LT	858.58	170126.87	717863.80
1286	416+66.54	61.48' LT	858.54	170129.53	717871.31
1287	416+74.58	71.07' LT	858.26	170139.15	717879.13

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - TERRACE DR	SHEET 160	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Terr-n
PLOT DATE : 3/14/2023 10:17 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	41.0'	13.2'	21.5 SF	10.1'
SOUTHWEST	40.0'	13.8'	22.8 SF	10.6'

S DWY AT STATION 413+07

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1220	413+33.44	70.25' RT	858.21	170000.77	717537.72
1221	413+60.77	67.87' RT	858.11	170002.90	717565.08
1222	413+55.78	67.93' RT	858.03	170002.88	717560.08
1223	413+60.71	62.37' RT	858.03	170008.40	717565.06
1224	413+55.71	62.43' RT	857.95	170008.38	717560.06
1225	413+68.86	67.82' RT	857.94	170002.87	717573.16
1226	413+28.55	72.71' RT	857.80	169998.36	717532.81
1227	413+68.75	62.25' RT	857.78	170008.43	717573.11
1228	412+50.66	69.29' RT	857.70	170002.53	717454.95
1229	413+48.78	68.02' RT	857.71	170002.86	717553.08
1230	413+46.68	61.23' RT	857.67	170009.67	717551.05
1231	412+81.86	70.93' RT	857.65	170000.58	717486.13
1232	412+55.66	69.24' RT	857.62	170002.53	717459.95
1233	413+35.61	68.18' RT	857.60	170002.82	717539.91
1234	413+48.71	62.52' RT	857.60	170008.36	717553.06
1235	412+58.90	69.19' RT	857.58	170002.54	717463.19

S DWY AT STATION 413+07

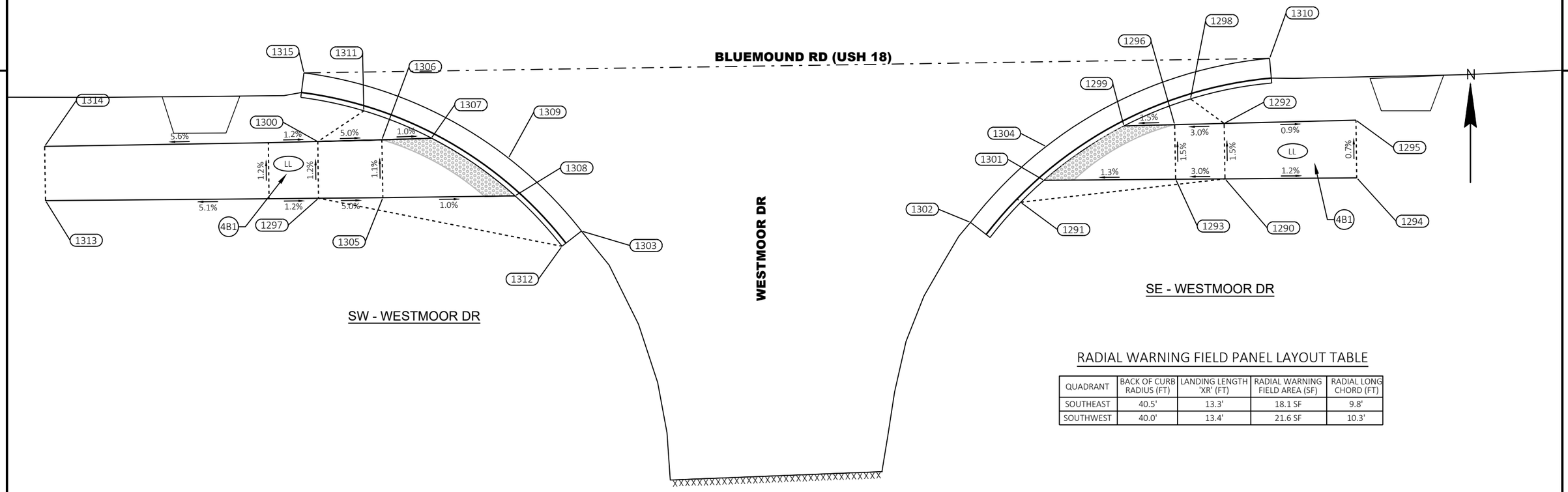
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1236	413+35.92	64.57' RT	857.57	170006.42	717540.26
1237	413+44.00	62.58' RT	857.53	170008.35	717548.35
1238	412+63.00	87.01' RT	857.52	169984.68	717467.12
1239	412+58.81	63.19' RT	857.51	170008.54	717463.16
1240	412+68.00	86.88' RT	857.43	169984.77	717472.12
1241	413+55.76	55.72' RT	857.24	170015.09	717560.18
1242	412+65.90	69.09' RT	857.23	170002.58	717470.19
1243	412+65.81	63.09' RT	857.16	170008.58	717470.16
1244	412+70.82	63.01' RT	857.08	170008.61	717475.17
1245	412+68.08	61.80' RT	857.07	170009.85	717472.44
1246	412+79.67	68.88' RT	857.02	170002.66	717483.97
1247	412+78.68	64.87' RT	856.79	170006.68	717483.01
1248	412+30.48	69.51' RT	856.69	170002.50	717434.77
1249	412+30.40	63.54' RT	856.54	170008.47	717434.74
1250	412+54.63	56.53' RT	856.30	170015.25	717459.05
1251	412+50.58	63.32' RT	853.41	170008.50	717454.93

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
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- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - S DWY AT STATION 413+07	SHEET 161	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Dwy18s
PLOT DATE : 3/14/2023 10:17 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



SW - WESTMOOR DR

SE - WESTMOOR DR

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	40.5'	13.3'	18.1 SF	9.8'
SOUTHWEST	40.0'	13.4'	21.6 SF	10.3'

WESTMOOR S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1290	417+33.18	62.60' RT	861.08	170006.42	717939.73
1291	417+12.90	64.51' RT	861.08	170004.05	717919.04
1292	417+33.24	56.99' RT	861.00	170012.03	717939.65
1293	417+28.30	62.52' RT	860.93	170006.38	717934.74
1294	417+46.23	62.87' RT	860.92	170006.53	717953.07
1295	417+46.33	57.04' RT	860.88	170012.36	717952.99
1296	417+28.33	56.99' RT	860.85	170011.91	717934.64
1297	416+43.35	63.63' RT	860.92	170004.46	717847.94
1298	417+29.96	54.42' RT	860.80	170014.52	717936.24
1299	417+23.29	57.00' RT	860.77	170011.78	717929.50
1300	416+43.25	57.90' RT	860.85	170010.19	717847.87
1301	417+15.24	62.33' RT	860.76	170006.27	717921.39
1302	417+07.90	66.45' RT	860.75	170002.01	717913.96
1303	416+69.39	66.92' RT	860.69	170001.14	717874.57
1304	417+15.52	58.91' RT	860.60	170009.70	717921.61

WESTMOOR S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1305	416+49.73	63.54' RT	860.59	170004.51	717854.46
1306	416+49.61	57.69' RT	860.53	170010.37	717854.36
1307	416+54.51	57.52' RT	860.48	170010.53	717859.36
1308	416+62.82	63.34' RT	860.46	170004.70	717867.84
1309	416+62.16	59.52' RT	860.32	170008.52	717867.17
1310	417+37.93	50.53' RT	860.29	170018.62	717944.25
1311	416+47.81	54.75' RT	860.22	170013.31	717852.54
1312	416+67.46	68.46' RT	860.18	169999.60	717872.60
1313	416+15.97	64.11' RT	859.82	170004.21	717820.30
1314	416+15.84	58.62' RT	859.65	170009.71	717820.21
1315	416+41.84	50.94' RT	859.48	170017.15	717846.47

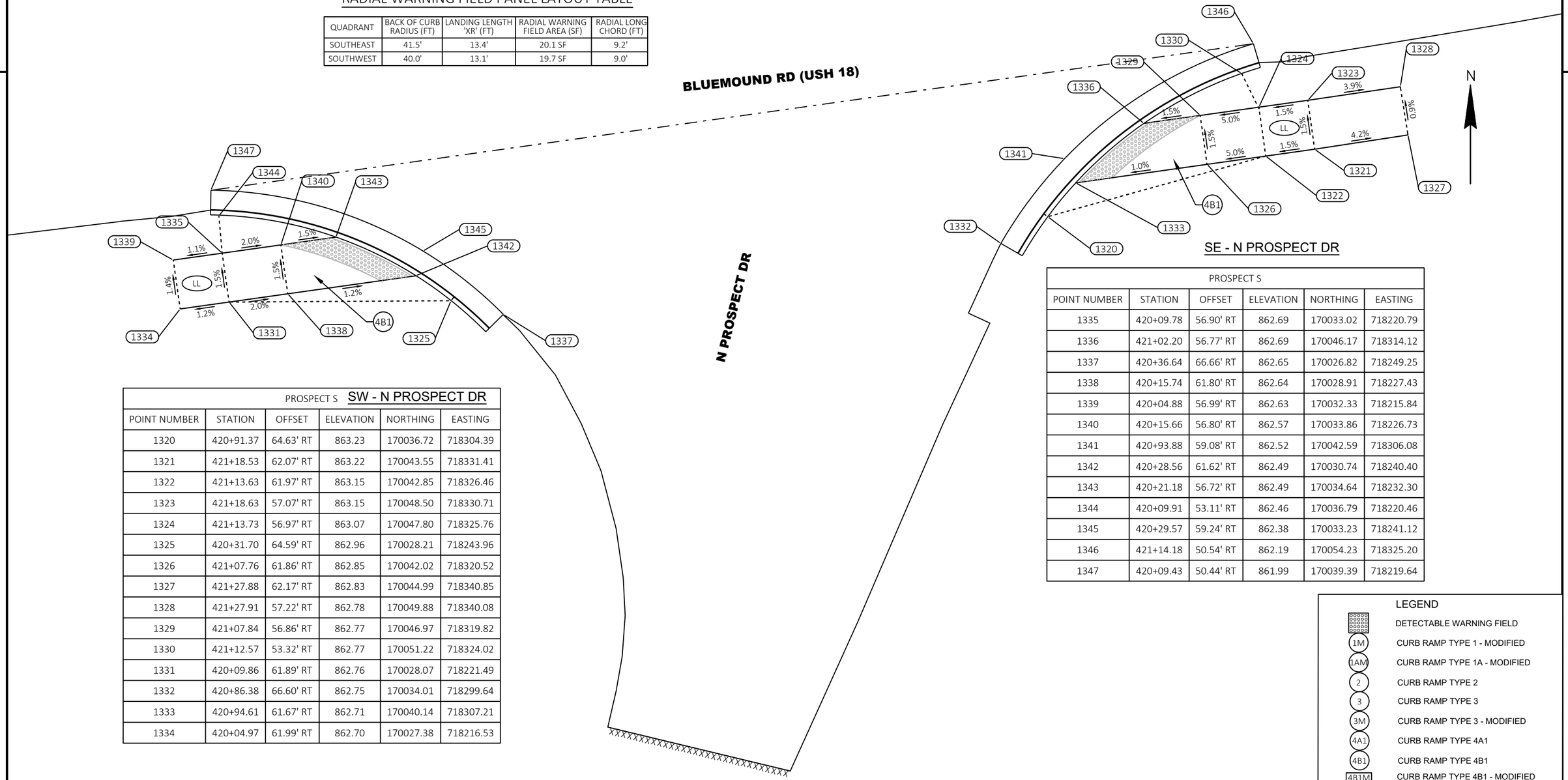
LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - WESTMOOR DR	SHEET 162	E

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	41.5'	13.4'	20.1 SF	9.2'
SOUTHWEST	40.0'	13.1'	19.7 SF	9.0'



SW - N PROSPECT DR

PROSPECT S

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1320	420+91.37	64.63' RT	863.23	170036.72	718304.39
1321	421+18.53	62.07' RT	863.22	170043.55	718331.41
1322	421+13.63	61.97' RT	863.15	170042.85	718326.46
1323	421+18.63	57.07' RT	863.15	170048.50	718330.71
1324	421+13.73	56.97' RT	863.07	170047.80	718325.76
1325	420+31.70	64.59' RT	862.96	170028.21	718243.96
1326	421+07.76	61.86' RT	862.85	170042.02	718320.52
1327	421+27.88	62.17' RT	862.83	170044.99	718340.85
1328	421+27.91	57.22' RT	862.78	170049.88	718340.08
1329	421+07.84	56.86' RT	862.77	170046.97	718319.82
1330	421+12.57	53.32' RT	862.77	170051.22	718324.02
1331	420+09.86	61.89' RT	862.76	170028.07	718221.49
1332	420+86.38	66.60' RT	862.75	170034.01	718299.64
1333	420+94.61	61.67' RT	862.71	170040.14	718307.21
1334	420+04.97	61.99' RT	862.70	170027.38	718216.53

SE - N PROSPECT DR

PROSPECT S

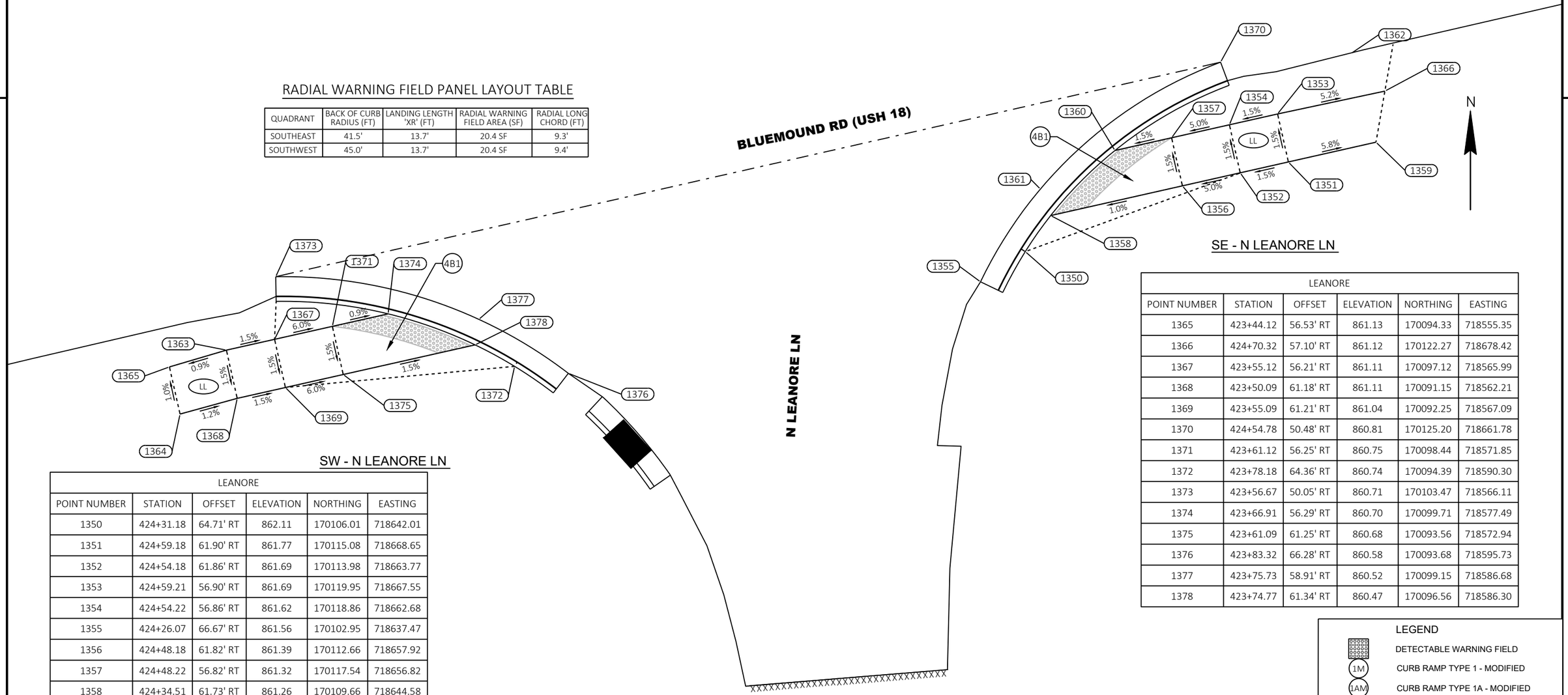
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1335	420+09.78	56.90' RT	862.69	170033.02	718220.79
1336	421+02.20	56.77' RT	862.69	170046.17	718314.12
1337	420+36.64	66.66' RT	862.65	170026.82	718249.25
1338	420+15.74	61.80' RT	862.64	170028.91	718227.43
1339	420+04.88	56.99' RT	862.63	170032.33	718215.84
1340	420+15.66	56.80' RT	862.57	170033.86	718226.73
1341	420+93.88	59.08' RT	862.52	170042.59	718306.08
1342	420+28.56	61.62' RT	862.49	170030.74	718240.40
1343	420+21.18	56.72' RT	862.49	170034.64	718232.30
1344	420+09.91	53.11' RT	862.46	170036.79	718220.46
1345	420+29.57	59.24' RT	862.38	170033.23	718241.12
1346	421+14.18	50.54' RT	862.19	170054.23	718325.20
1347	420+09.43	50.44' RT	861.99	170039.39	718219.64

LEGEND

- DETECTABLE WARNING FIELD
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- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	41.5'	13.7'	20.4 SF	9.3'
SOUTHWEST	45.0'	13.7'	20.4 SF	9.4'



SW - N LEANORE LN

LEANORE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1350	424+31.18	64.71' RT	862.11	170106.01	718642.01
1351	424+59.18	61.90' RT	861.77	170115.08	718668.65
1352	424+54.18	61.86' RT	861.69	170113.98	718663.77
1353	424+59.21	56.90' RT	861.69	170119.95	718667.55
1354	424+54.22	56.86' RT	861.62	170118.86	718662.68
1355	424+26.07	66.67' RT	861.56	170102.95	718637.47
1356	424+48.18	61.82' RT	861.39	170112.66	718657.92
1357	424+48.22	56.82' RT	861.32	170117.54	718656.82
1358	424+34.51	61.73' RT	861.26	170109.66	718644.58
1359	424+68.28	61.93' RT	861.25	170117.10	718677.52
1360	424+42.33	56.79' RT	861.23	170116.25	718651.08
1361	424+34.10	58.89' RT	861.19	170112.34	718643.54
1362	424+67.85	52.61' RT	861.19	170126.08	718675.00
1363	423+50.12	56.18' RT	861.19	170096.03	718561.11
1364	423+44.09	61.43' RT	861.18	170089.55	718556.42

SE - N LEANORE LN

LEANORE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1365	423+44.12	56.53' RT	861.13	170094.33	718555.35
1366	424+70.32	57.10' RT	861.12	170122.27	718678.42
1367	423+55.12	56.21' RT	861.11	170097.12	718565.99
1368	423+50.09	61.18' RT	861.11	170091.15	718562.21
1369	423+55.09	61.21' RT	861.04	170092.25	718567.09
1370	424+54.78	50.48' RT	860.81	170125.20	718661.78
1371	423+61.12	56.25' RT	860.75	170098.44	718571.85
1372	423+78.18	64.36' RT	860.74	170094.39	718590.30
1373	423+56.67	50.05' RT	860.71	170103.47	718566.11
1374	423+66.91	56.29' RT	860.70	170099.71	718577.49
1375	423+61.09	61.25' RT	860.68	170093.56	718572.94
1376	423+83.32	66.28' RT	860.58	170093.68	718595.73
1377	423+75.73	58.91' RT	860.52	170099.15	718586.68
1378	423+74.77	61.34' RT	860.47	170096.56	718586.30

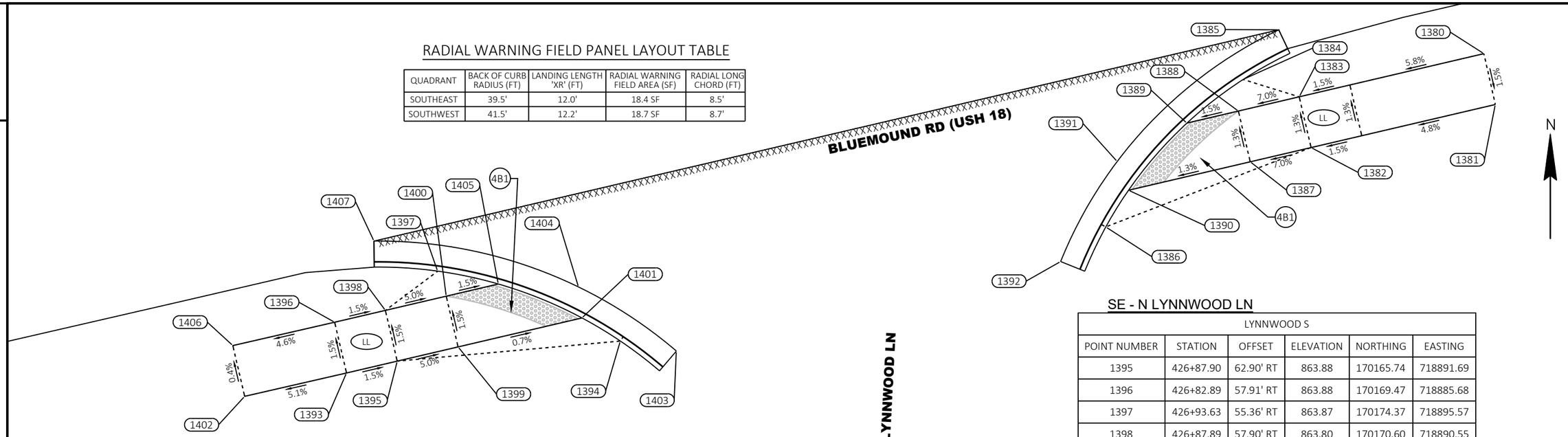
LEGEND

- DETECTABLE WARNING FIELD
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- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
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- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N LEANORE LN	SHEET 164	E

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	39.5'	12.0'	18.4 SF	8.5'
SOUTHWEST	41.5'	12.2'	18.7 SF	8.7'



SW - N LYNNWOOD LN

LYNNWOOD S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1380	427+96.23	57.70' RT	866.04	170195.26	718996.05
1381	427+96.20	62.70' RT	865.96	170190.38	718997.15
1382	427+78.03	62.73' RT	865.26	170186.24	718979.45
1383	427+78.02	57.73' RT	865.19	170191.11	718978.31
1384	427+73.14	54.89' RT	865.18	170192.78	718972.92
1385	427+77.56	51.02' RT	864.99	170197.55	718976.35
1386	427+57.10	65.71' RT	864.90	170178.62	718959.74
1387	427+72.03	62.74' RT	864.84	170184.88	718973.61
1388	427+72.02	57.74' RT	864.77	170189.75	718972.47
1389	427+66.94	57.75' RT	864.69	170188.59	718967.52
1390	427+60.02	62.77' RT	864.68	170182.15	718961.92
1391	427+59.58	59.83' RT	864.54	170184.90	718960.83
1392	427+52.12	67.96' RT	864.39	170175.30	718955.40
1393	426+82.90	62.91' RT	863.95	170164.60	718886.82
1394	427+09.20	65.86' RT	863.94	170167.66	718913.11

SE - N LYNNWOOD LN

LYNNWOOD S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1395	426+87.90	62.90' RT	863.88	170165.74	718891.69
1396	426+82.89	57.91' RT	863.88	170169.47	718885.68
1397	426+93.63	55.36' RT	863.87	170174.37	718895.57
1398	426+87.89	57.90' RT	863.80	170170.60	718890.55
1399	426+93.90	62.89' RT	863.58	170167.10	718897.53
1400	426+93.89	57.89' RT	863.50	170171.97	718896.39
1401	427+06.11	62.86' RT	863.50	170169.88	718909.42
1402	426+72.86	62.88' RT	863.44	170162.36	718877.04
1403	427+14.23	68.01' RT	863.44	170166.70	718918.49
1404	427+06.46	59.90' RT	863.43	170172.85	718909.09
1405	426+99.02	57.88' RT	863.42	170173.14	718901.39
1406	426+72.85	57.88' RT	863.42	170167.23	718875.90
1407	426+88.32	51.17' RT	863.18	170177.26	718889.46

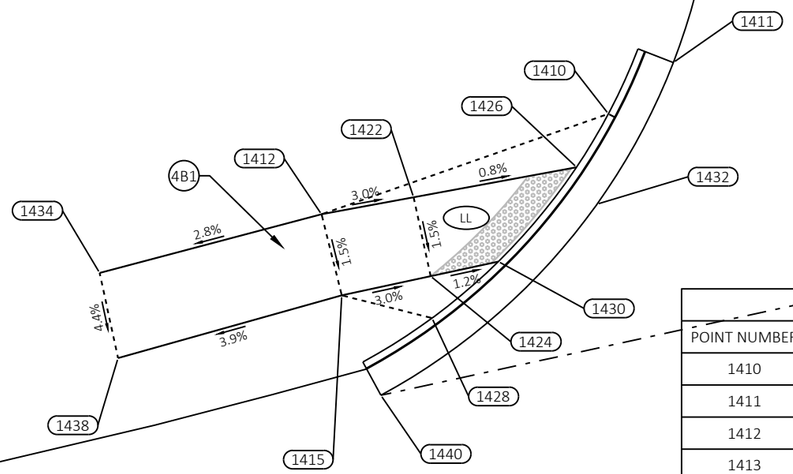
LEGEND

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2

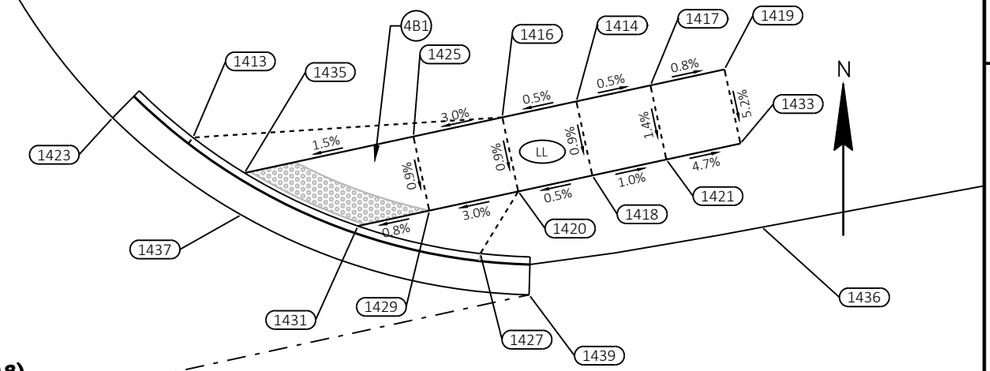
RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	40.0'	10.9'	17.3 SF	8.1'
NORTHEAST	38.0'	11.4'	17.7 SF	8.3'



NW QUADRANT - ROSEDALE DR

ROSEDALE DR



NE QUADRANT - ROSEDALE DR

BLUEMOUND RD (USH 18)

ROSEDALE N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1410	431+17.91	65.62' LT	870.84	170388.04	719281.72
1411	431+22.71	67.97' LT	870.80	170391.43	719286.01
1412	430+98.11	63.43' LT	870.69	170381.41	719262.79
1413	431+65.79	65.48' LT	870.67	170398.42	719329.87
1414	431+90.38	62.81' LT	870.63	170400.81	719355.17
1415	430+98.21	57.92' LT	870.60	170376.07	719264.13
1416	431+85.51	62.72' LT	870.60	170399.75	719350.28
1417	431+95.24	62.91' LT	870.60	170401.86	719360.06
1418	431+90.47	57.81' LT	870.58	170395.92	719356.22
1419	432+00.11	63.01' LT	870.56	170402.91	719364.94
1420	431+85.59	57.72' LT	870.56	170394.86	719351.33
1421	431+95.34	57.91' LT	870.53	170396.97	719361.11
1422	431+04.29	63.15' LT	870.50	170382.54	719268.87
1423	431+61.01	67.85' LT	870.48	170399.73	719324.57
1424	431+04.21	57.83' LT	870.42	170377.33	719269.99
1425	431+79.67	62.63' LT	870.42	170398.49	719344.41

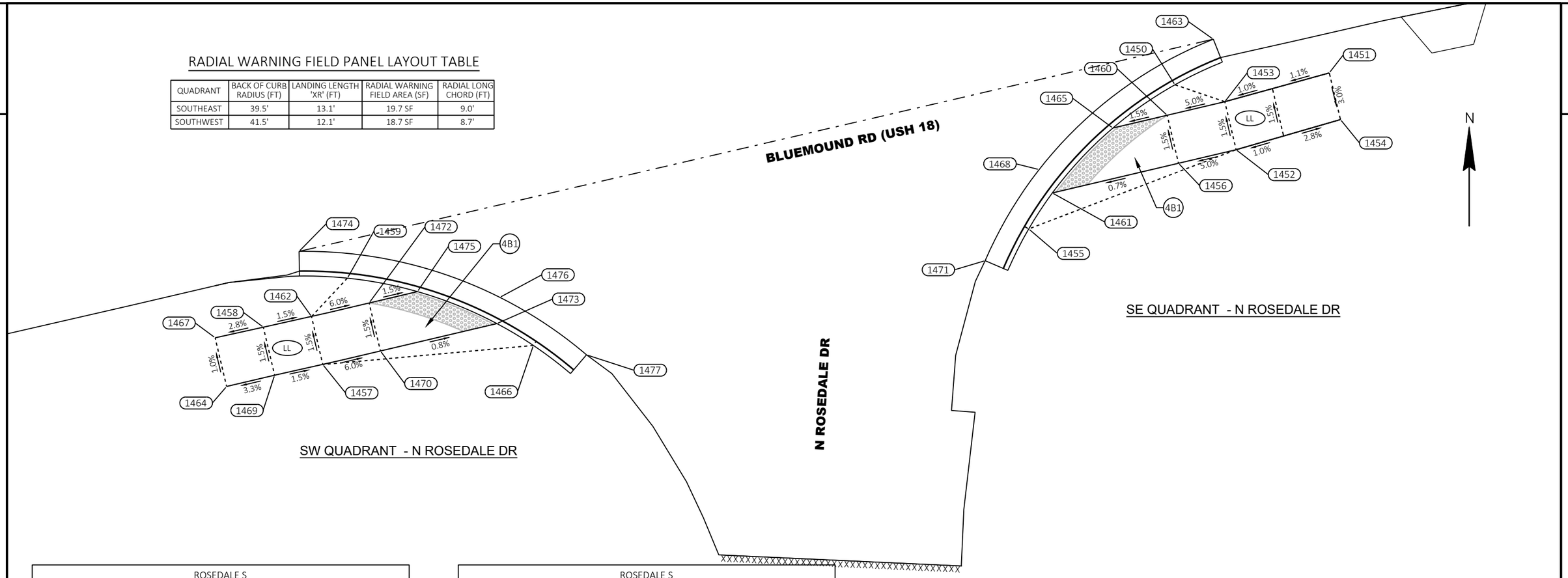
ROSEDALE N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1426	431+15.15	62.66' LT	870.42	170384.52	719279.62
1427	431+82.41	54.20' LT	870.41	170390.77	719348.83
1428	431+03.67	55.11' LT	870.40	170374.56	719270.08
1429	431+79.74	57.63' LT	870.38	170393.60	719345.47
1430	431+08.78	57.76' LT	870.37	170378.29	719274.46
1431	431+75.03	57.57' LT	870.34	170392.58	719340.75
1432	431+15.90	59.98' LT	870.31	170382.08	719280.97
1433	432+00.22	58.01' LT	870.30	170398.03	719366.00
1434	430+82.97	62.97' LT	870.26	170377.55	719248.15
1435	431+68.58	62.50' LT	870.25	170396.09	719333.27
1436	432+00.55	52.34' LT	870.21	170392.51	719367.40
1437	431+67.82	59.84' LT	870.15	170393.32	719333.05
1438	430+82.89	57.22' LT	870.00	170371.93	719249.37
1439	431+84.98	50.90' LT	869.99	170388.05	719352.05
1440	430+99.23	50.91' LT	869.74	170369.47	719266.71

LEGEND

- DETECTABLE WARNING FIELD
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- LL — LEVEL LANDING
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RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	39.5'	13.1'	19.7 SF	9.0'
SOUTHWEST	41.5'	12.1'	18.7 SF	8.7'



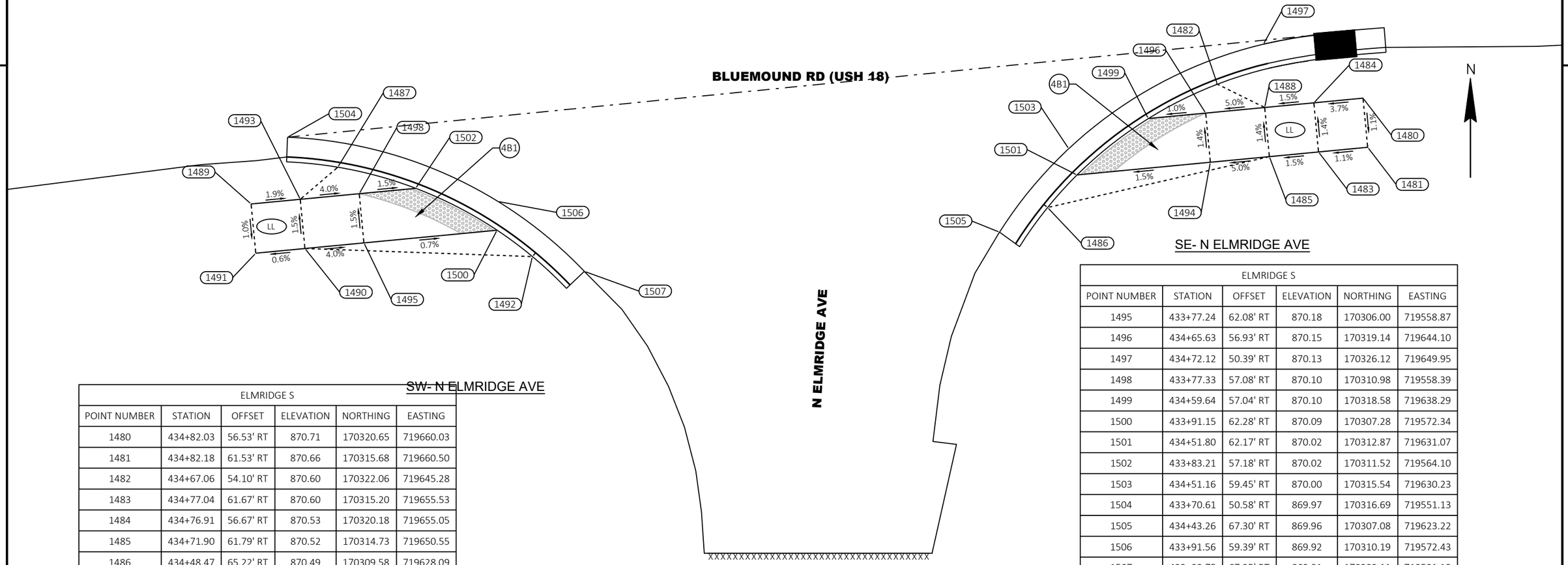
ROSEDALE S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1450	431+40.14	54.45' RT	869.55	170275.77	719329.76
1451	431+56.07	56.57' RT	869.54	170276.97	719345.40
1452	431+44.92	62.20' RT	869.50	170269.18	719335.96
1453	431+44.83	57.20' RT	869.42	170274.05	719334.81
1454	431+56.21	61.44' RT	869.38	170272.24	719346.54
1455	431+22.02	65.48' RT	869.30	170261.16	719314.94
1456	431+38.75	62.30' RT	869.20	170267.81	719330.12
1457	430+48.97	62.74' RT	869.18	170247.41	719243.40
1458	430+43.95	57.69' RT	869.18	170251.19	719237.37
1459	430+53.37	54.77' RT	869.15	170256.16	719245.89
1460	431+38.68	57.30' RT	869.12	170272.68	719328.97
1461	431+25.25	62.45' RT	869.10	170264.80	719317.33
1462	430+48.95	57.74' RT	869.10	170252.27	719242.26
1463	431+45.04	50.76' RT	869.09	170280.39	719333.64
1464	430+38.97	62.70' RT	869.08	170245.18	719233.65

ROSEDALE S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1465	431+32.87	57.37' RT	869.04	170271.38	719323.46
1466	430+70.19	65.67' RT	869.04	170249.34	719264.74
1467	430+38.95	57.63' RT	869.04	170250.12	719232.49
1468	431+24.45	59.84' RT	868.95	170267.17	719316.00
1469	430+43.97	62.69' RT	868.87	170246.33	719238.52
1470	430+54.97	62.72' RT	868.82	170248.78	719249.24
1471	431+16.85	67.63' RT	868.78	170257.94	719310.53
1472	430+54.95	57.72' RT	868.74	170253.65	719248.10
1473	430+67.09	62.68' RT	868.72	170251.56	719261.04
1474	430+49.22	51.02' RT	868.68	170258.88	719241.00
1475	430+59.98	57.70' RT	868.67	170254.80	719252.99
1476	430+67.98	60.15' RT	868.64	170254.22	719261.34
1477	430+75.22	67.81' RT	868.50	170248.39	719270.12

LEGEND

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2



SW- N ELMRIDGE AVE

ELMRIDGE S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1480	434+82.03	56.53' RT	870.71	170320.65	719660.03
1481	434+82.18	61.53' RT	870.66	170315.68	719660.50
1482	434+67.06	54.10' RT	870.60	170322.06	719645.28
1483	434+77.04	61.67' RT	870.60	170315.20	719655.53
1484	434+76.91	56.67' RT	870.53	170320.18	719655.05
1485	434+71.90	61.79' RT	870.52	170314.73	719650.55
1486	434+48.47	65.22' RT	870.49	170309.58	719628.09
1487	433+75.42	54.17' RT	870.47	170313.66	719556.21
1488	434+71.78	56.79' RT	870.45	170319.71	719650.08
1489	433+66.05	56.86' RT	870.44	170309.93	719547.44
1490	433+71.07	61.97' RT	870.42	170305.43	719552.89
1491	433+65.94	61.86' RT	870.39	170304.96	719547.91
1492	433+94.53	65.31' RT	870.35	170304.61	719575.92
1493	433+71.18	56.97' RT	870.34	170310.41	719552.42
1494	434+65.74	61.93' RT	870.22	170314.16	719644.58

SE- N ELMRIDGE AVE

ELMRIDGE S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1495	433+77.24	62.08' RT	870.18	170306.00	719558.87
1496	434+65.63	56.93' RT	870.15	170319.14	719644.10
1497	434+72.12	50.39' RT	870.13	170326.12	719649.95
1498	433+77.33	57.08' RT	870.10	170310.98	719558.39
1499	434+59.64	57.04' RT	870.10	170318.58	719638.29
1500	433+91.15	62.28' RT	870.09	170307.28	719572.34
1501	434+51.80	62.17' RT	870.02	170312.87	719631.07
1502	433+83.21	57.18' RT	870.02	170311.52	719564.10
1503	434+51.16	59.45' RT	870.00	170315.54	719630.23
1504	433+70.61	50.58' RT	869.97	170316.69	719551.13
1505	434+43.26	67.30' RT	869.96	170307.08	719623.22
1506	433+91.56	59.39' RT	869.92	170310.19	719572.43
1507	433+99.75	67.35' RT	869.91	170303.11	719581.18

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	41.0'	13.6'	20.2 SF	9.2'
SOUTHWEST	41.5'	13.5'	20.3 SF	9.2'

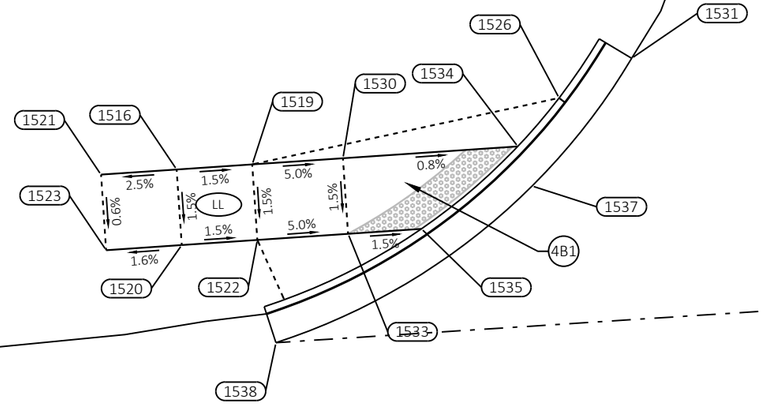
LEGEND

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- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N ELMRIDGE AVE	SHEET 168	E

RADIAL WARNING FIELD PANEL LAYOUT TABLE

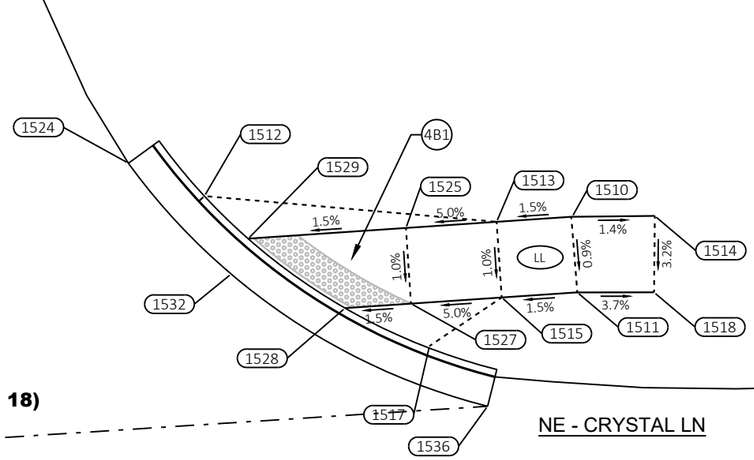
QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	40.0'	11.6'	17.9 SF	8.4'
NORTHEAST	39.5'	10.4'	16.6 SF	7.9'



NW - CRYSTAL LN

CRYSTAL LN

BLUEMOUND RD (USH 18)



NE - CRYSTAL LN

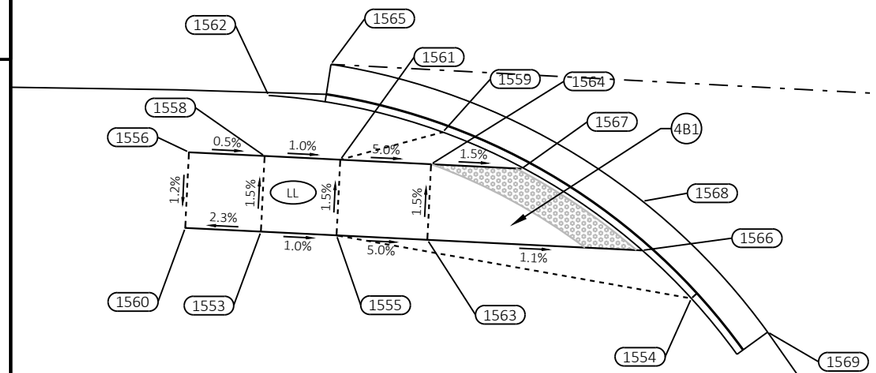
N

LEGEND

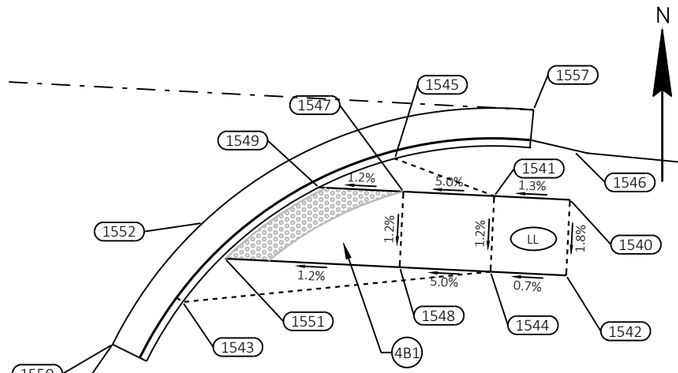
- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

CRYSTAL N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1510	435+51.83	64.08' LT	872.30	170444.70	719723.64
1511	435+51.98	59.08' LT	872.26	170439.70	719723.98
1512	435+28.30	66.45' LT	872.23	170446.06	719699.36
1513	435+46.97	63.93' LT	872.23	170444.36	719718.65
1514	435+57.13	63.95' LT	872.23	170444.75	719729.09
1515	435+47.11	58.94' LT	872.18	170439.37	719718.99
1516	434+59.95	63.01' LT	872.10	170438.31	719629.43
1517	435+42.33	55.92' LT	872.07	170436.16	719714.21
1518	435+56.91	58.91' LT	872.07	170439.71	719729.04
1519	434+64.82	62.97' LT	872.02	170438.65	719634.42
1520	434+59.91	58.01' LT	872.02	170433.32	719629.77
1521	434+55.09	63.06' LT	871.97	170437.97	719624.44
1522	434+64.79	57.97' LT	871.95	170433.66	719634.76
1523	434+55.03	58.06' LT	871.94	170432.99	719624.78
1524	435+23.54	68.86' LT	871.93	170448.23	719694.35

CRYSTAL N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1525	435+41.13	63.77' LT	871.93	170443.95	719712.66
1526	434+84.76	65.93' LT	871.90	170443.03	719654.67
1527	435+41.26	58.77' LT	871.88	170438.97	719713.00
1528	435+37.00	58.65' LT	871.81	170438.67	719708.64
1529	435+30.98	63.51' LT	871.77	170443.25	719702.25
1530	434+70.66	62.94' LT	871.72	170439.06	719640.40
1531	434+89.57	68.24' LT	871.70	170445.66	719659.46
1532	435+29.78	61.23' LT	871.67	170440.92	719701.13
1533	434+70.64	57.94' LT	871.65	170434.07	719640.74
1534	434+81.91	62.92' LT	871.63	170439.84	719651.94
1535	434+75.37	57.93' LT	871.58	170434.40	719645.59
1536	435+45.93	51.80' LT	871.57	170432.19	719718.05
1537	434+82.66	60.25' LT	871.55	170437.22	719652.89
1538	434+65.49	51.13' LT	871.40	170426.89	719635.98



SW - N PARK BLVD



SE - N PARK BLVD

BLUEMOUND RD (USH 18)

N PARK BLVD

N

PARK S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1540	438+29.84	55.79' RT	871.94	170318.30	719998.98
1541	438+24.72	55.96' RT	871.88	170318.55	719993.99
1542	438+30.02	60.78' RT	871.85	170313.31	719998.74
1543	438+04.23	64.54' RT	871.82	170311.55	719973.43
1544	438+24.89	60.96' RT	871.82	170313.55	719993.74
1545	438+17.81	54.03' RT	871.74	170321.02	719987.43
1546	438+29.88	52.61' RT	871.69	170321.46	719999.29
1547	438+18.57	56.15' RT	871.58	170318.84	719988.00
1548	438+18.73	61.15' RT	871.52	170313.85	719987.75
1549	438+12.85	56.32' RT	871.51	170319.12	719982.42
1550	437+99.69	67.66' RT	871.46	170308.76	719968.81
1551	438+06.88	61.47' RT	871.38	170314.42	719976.22
1552	438+05.18	59.24' RT	871.36	170316.77	719974.74
1553	437+01.08	61.74' RT	871.36	170319.49	719873.40
1554	437+30.43	65.14' RT	871.33	170315.09	719901.81

PARK S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1555	437+06.22	61.84' RT	871.31	170319.25	719878.40
1556	436+96.06	56.64' RT	871.31	170324.73	719868.66
1557	438+26.88	50.08' RT	871.29	170324.23	719996.58
1558	437+01.18	56.74' RT	871.28	170324.49	719873.65
1559	437+13.18	54.80' RT	871.26	170326.06	719885.41
1560	436+95.94	61.63' RT	871.25	170319.74	719868.41
1561	437+06.31	56.84' RT	871.23	170324.24	719878.64
1562	437+01.33	52.75' RT	871.16	170328.48	719873.91
1563	437+12.38	61.94' RT	871.01	170318.95	719884.39
1564	437+12.46	56.94' RT	870.93	170323.95	719884.64
1565	437+05.48	50.57' RT	870.86	170330.53	719878.03
1566	437+26.94	62.12' RT	870.86	170318.25	719898.54
1567	437+18.59	57.03' RT	870.85	170323.65	719890.61
1568	437+26.86	58.87' RT	870.81	170321.50	719898.59
1569	437+35.71	67.15' RT	870.73	170312.87	719906.84

RADIAL WARNING FIELD PANEL LAYOUT TABLE

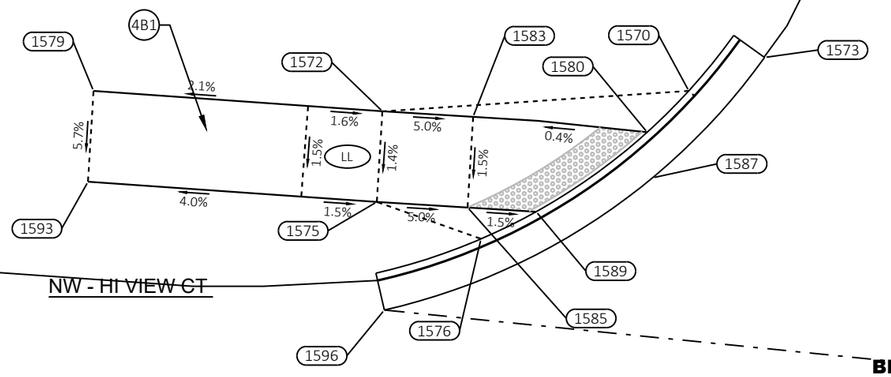
QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	25.5'	11.8'	17.9 SF	8.0'
SOUTHWEST	41.5'	14.2'	21.0 SF	9.6'

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
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- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N PARK BLVD	SHEET 170	E

2



NW - HI VIEW CT

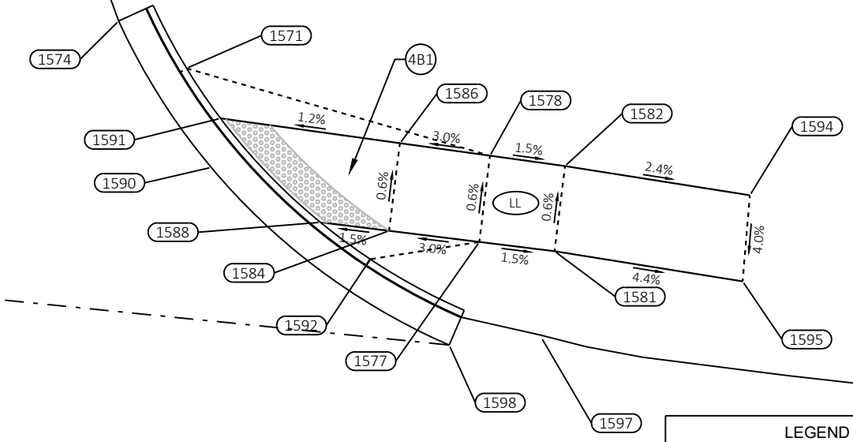
HI VIEW CT

BLUEMOUND RD (USH 18)

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	40.0'	11.5'	19.3 SF	9.0'
NORTHEAST	40.0'	11.9'	20.1 SF	9.5'

N



NE - HI VIEW CT

HI VIEW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1570	438+51.01	67.94' LT	873.69	170439.62	720031.20
1571	438+92.38	68.07' LT	873.36	170435.37	720073.55
1572	438+31.55	64.78' LT	873.11	170438.28	720010.98
1573	438+55.63	70.61' LT	873.10	170441.83	720036.20
1574	438+87.69	70.68' LT	873.06	170438.49	720069.07
1575	438+31.70	58.79' LT	873.02	170432.30	720010.61
1576	438+38.59	56.96' LT	872.98	170429.86	720017.49
1577	439+12.86	58.85' LT	872.93	170423.92	720092.87
1578	439+12.92	64.58' LT	872.90	170429.61	720093.57
1579	438+12.97	64.56' LT	872.88	170439.62	719991.92
1580	438+48.60	64.96' LT	872.86	170436.89	720028.45
1581	439+17.86	58.79' LT	872.86	170423.31	720097.83
1582	439+17.92	64.45' LT	872.82	170428.92	720098.52
1583	438+37.39	64.93' LT	872.81	170437.91	720016.97
1584	439+06.86	58.91' LT	872.75	170424.65	720086.91
1585	438+37.54	58.94' LT	872.72	170431.93	720016.60

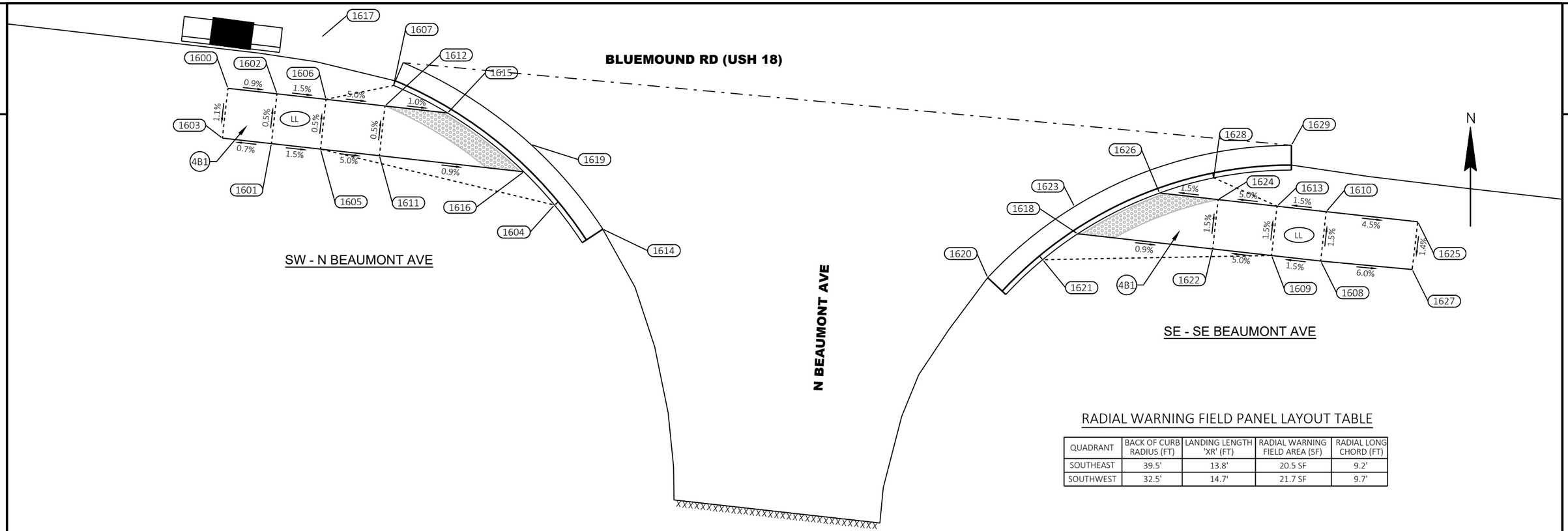
HI VIEW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1586	439+06.92	64.73' LT	872.72	170430.43	720087.63
1587	438+49.21	62.00' LT	872.69	170433.89	720028.80
1588	439+02.29	58.96' LT	872.68	170425.21	720082.38
1589	438+41.96	59.07' LT	872.65	170431.65	720021.12
1590	438+94.72	61.76' LT	872.63	170428.84	720075.17
1591	438+94.98	65.04' LT	872.58	170432.07	720075.79
1592	439+05.83	56.91' LT	872.58	170422.78	720085.67
1593	438+13.07	58.56' LT	872.54	170433.63	719991.55
1594	439+30.25	63.89' LT	872.53	170426.99	720110.72
1595	439+30.41	58.20' LT	872.30	170421.32	720110.24
1596	438+32.78	51.72' LT	872.28	170425.16	720011.11
1597	439+17.63	53.02' LT	872.24	170417.60	720096.96
1598	439+11.64	51.86' LT	871.96	170417.12	720090.88

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
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- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - HI VIEW CT	SHEET 171	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - HiView-n
PLOT DATE : 3/14/2023 10:19 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	39.5'	13.8'	20.5 SF	9.2'
SOUTHWEST	32.5'	14.7'	21.7 SF	9.7'

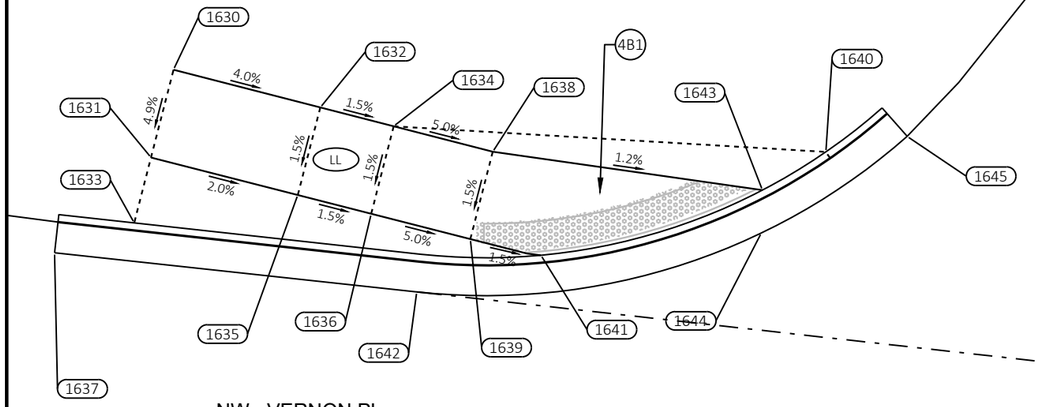
BEAUMONT S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1600	440+50.53	56.70' RT	871.38	170293.74	720216.79
1601	440+55.53	61.76' RT	871.36	170288.14	720221.19
1602	440+55.53	56.69' RT	871.34	170293.18	720221.76
1603	440+50.53	61.77' RT	871.33	170288.70	720216.22
1604	440+84.70	64.75' RT	871.31	170281.92	720249.85
1605	440+60.53	61.76' RT	871.29	170287.59	720226.16
1606	440+60.53	56.70' RT	871.26	170292.62	720226.72
1607	440+67.16	54.54' RT	871.20	170294.03	720233.56
1608	441+62.43	61.73' RT	871.09	170276.25	720327.44
1609	441+57.43	61.73' RT	871.01	170276.81	720322.47
1610	441+62.43	56.70' RT	871.01	170281.25	720327.99
1611	440+66.53	61.76' RT	870.99	170286.92	720232.12
1612	440+66.53	56.69' RT	870.96	170291.96	720232.69
1613	441+57.43	56.70' RT	870.94	170281.81	720323.03
1614	440+89.84	66.63' RT	870.92	170279.48	720254.75

BEAUMONT S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1615	440+72.92	56.70' RT	870.90	170291.24	720239.04
1616	440+81.24	61.76' RT	870.85	170285.28	720246.75
1617	440+59.36	50.50' RT	870.84	170298.91	720226.26
1618	441+37.67	61.74' RT	870.83	170279.01	720302.83
1619	440+81.64	58.93' RT	870.82	170288.05	720247.46
1620	441+29.12	67.17' RT	870.76	170274.57	720293.72
1621	441+34.44	64.74' RT	870.76	170276.39	720299.28
1622	441+51.43	61.73' RT	870.71	170277.48	720316.50
1623	441+37.05	59.03' RT	870.68	170281.76	720302.51
1624	441+51.43	56.70' RT	870.64	170282.47	720317.06
1625	441+71.77	56.69' RT	870.60	170280.22	720337.27
1626	441+45.45	56.70' RT	870.55	170283.14	720311.12
1627	441+71.74	61.55' RT	870.53	170275.39	720336.70
1628	441+50.74	54.56' RT	870.27	170284.68	720316.61
1629	441+58.18	50.41' RT	870.24	170287.97	720324.47

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
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- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N BEAUMONT AVE	SHEET 172	E



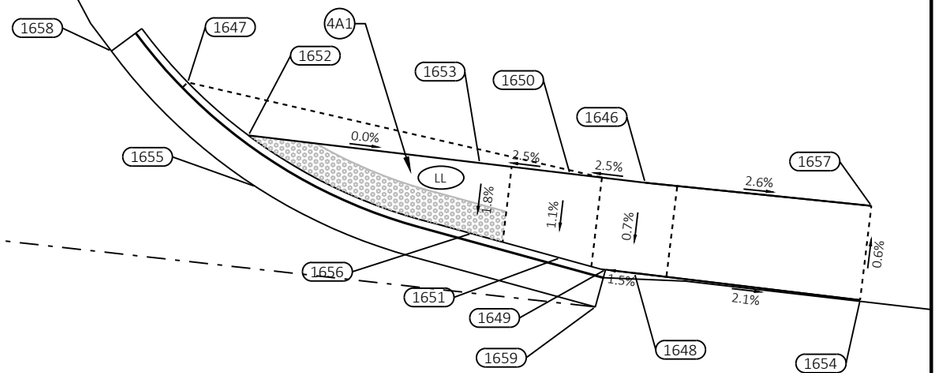
NW - VERNON PL

VERNON PL

BLUEMOUND RD (USH 18)

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	39.5'	18.0'	32.1 SF	15.2'
NORTHEAST	34.0'	17.5'	31.9 SF	18.2'



NE - VERNON PL

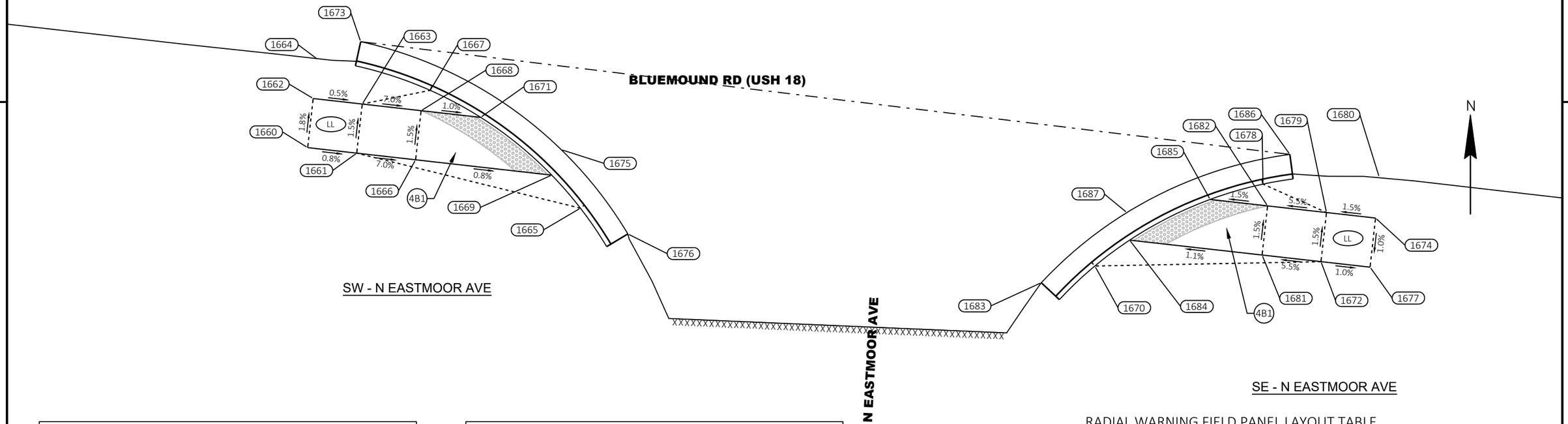
N

VERNON N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1630	441+82.39	62.72' LT	869.95	170397.70	720361.15
1631	441+81.56	56.80' LT	869.65	170391.91	720359.66
1632	441+92.29	61.33' LT	869.55	170395.22	720370.84
1633	441+80.94	52.40' LT	869.54	170387.60	720358.55
1634	441+97.24	60.64' LT	869.47	170393.97	720375.68
1635	441+91.46	55.43' LT	869.46	170389.44	720369.35
1636	441+96.41	54.73' LT	869.38	170388.20	720374.20
1637	441+75.93	49.84' LT	869.25	170385.62	720353.30
1638	442+03.93	59.70' LT	869.13	170392.29	720382.22
1639	442+03.10	53.80' LT	869.04	170386.53	720380.73
1640	442+25.77	62.14' LT	869.03	170392.28	720404.20
1641	442+07.84	53.26' LT	868.97	170385.46	720385.39
1642	441+99.97	49.95' LT	868.97	170383.05	720377.20
1643	442+21.89	59.16' LT	868.92	170389.76	720400.01
1644	442+22.14	56.35' LT	868.87	170386.93	720399.94

VERNON N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1645	442+30.99	63.76' LT	868.54	170393.31	720409.56
1646	443+11.26	58.53' LT	868.20	170379.16	720488.75
1647	442+80.53	61.75' LT	868.19	170385.79	720458.57
1648	443+11.22	52.53' LT	868.16	170373.20	720488.04
1649	443+09.30	52.54' LT	868.13	170373.43	720486.14
1650	443+06.26	58.57' LT	868.07	170379.75	720483.79
1651	443+06.22	52.98' LT	868.01	170374.20	720483.13
1652	442+84.89	58.72' LT	867.92	170382.29	720462.57
1653	443+00.26	58.61' LT	867.92	170380.46	720477.83
1654	443+26.22	52.42' LT	867.85	170371.42	720502.94
1655	442+85.76	55.40' LT	867.82	170378.90	720463.06
1656	443+00.23	53.93' LT	867.84	170375.82	720477.28
1657	443+26.27	58.68' LT	867.81	170377.64	720503.68
1658	442+75.29	63.24' LT	867.79	170387.85	720453.53
1659	443+08.90	50.02' LT	867.62	170370.97	720485.46

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
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- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER



EASTMOOR S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1660	443+50.22	61.83' RT	869.32	170255.20	720514.04
1661	443+55.22	61.83' RT	869.28	170254.64	720519.01
1662	443+50.22	56.83' RT	869.23	170260.17	720514.60
1663	443+55.22	56.83' RT	869.20	170259.61	720519.56
1664	443+50.24	52.86' RT	869.15	170264.12	720515.06
1665	443+78.35	64.83' RT	869.01	170249.08	720541.65
1666	443+61.22	61.83' RT	868.86	170253.97	720524.97
1667	443+61.90	54.69' RT	868.84	170261.00	720526.44
1668	443+61.22	56.83' RT	868.78	170258.94	720525.53
1669	443+75.08	61.83' RT	868.75	170252.43	720538.75
1670	444+30.76	64.84' RT	868.73	170243.23	720593.74
1671	443+67.28	56.83' RT	868.72	170258.27	720531.55
1672	444+53.47	61.84' RT	868.71	170243.67	720616.64
1673	443+54.36	50.58' RT	868.71	170265.92	720519.41
1674	444+58.47	56.84' RT	868.71	170248.09	720622.17

EASTMOOR S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1675	443+75.75	59.17' RT	868.68	170255.00	720539.70
1676	443+83.41	66.89' RT	868.68	170246.48	720546.46
1677	444+58.47	61.84' RT	868.66	170243.12	720621.61
1678	444+46.76	54.71' RT	868.64	170251.51	720610.77
1679	444+53.47	56.84' RT	868.63	170248.64	720617.20
1680	444+58.38	52.68' RT	868.49	170252.23	720622.54
1681	444+47.47	61.84' RT	868.38	170244.34	720610.68
1682	444+47.47	56.84' RT	868.30	170249.31	720611.24
1683	444+25.57	67.12' RT	868.25	170241.54	720588.32
1684	444+33.97	61.84' RT	868.23	170245.85	720597.27
1685	444+41.61	56.84' RT	868.21	170249.97	720605.42
1686	444+49.13	51.41' RT	868.17	170254.52	720613.49
1687	444+33.39	59.10' RT	868.16	170248.64	720596.99

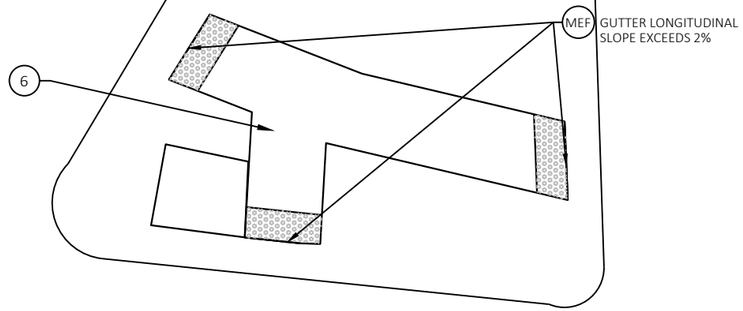
RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	39.5'	13.5'	20.1 SF	9.1'
SOUTHWEST	39.5'	13.9'	20.5 SF	9.3'

LEGEND

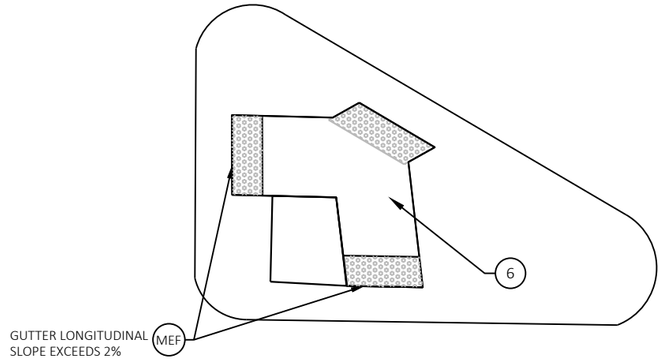
- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N EASTMOOR AVE	SHEET 174	E



NW QUADRANT - SUNNYSLOPE RD

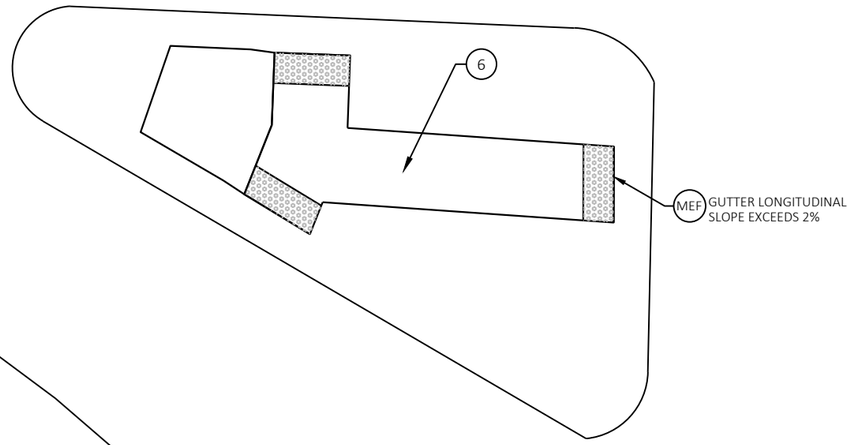
SUNNYSLOPE RD



NE QUADRANT - SUNNYSLOPE RD

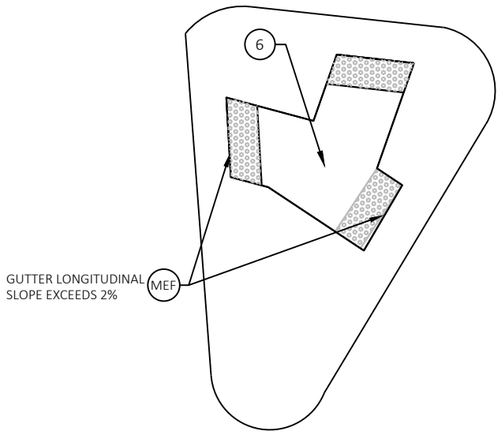
BLUEMOUND RD (USH 18)

BLUEMOUND RD (USH 18)



SW QUADRANT - SUNNYSLOPE RD

SUNNYSLOPE RD



SE QUADRANT - SUNNYSLOPE RD

LEGEND

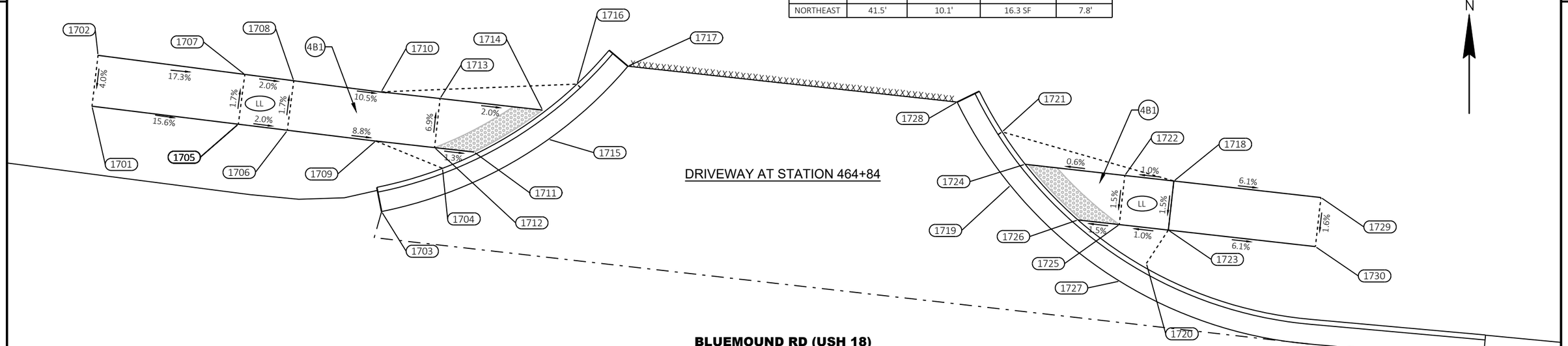
	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
1AM	CURB RAMP TYPE 1A - MODIFIED
2	CURB RAMP TYPE 2
3	CURB RAMP TYPE 3
3M	CURB RAMP TYPE 3 - MODIFIED
4A1	CURB RAMP TYPE 4A1
4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N EASTMOOR AVE	SHEET 175	E

2

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	41.5'	10.8'	17.1 SF	8.0'
NORTHEAST	41.5'	10.1'	16.3 SF	7.8'

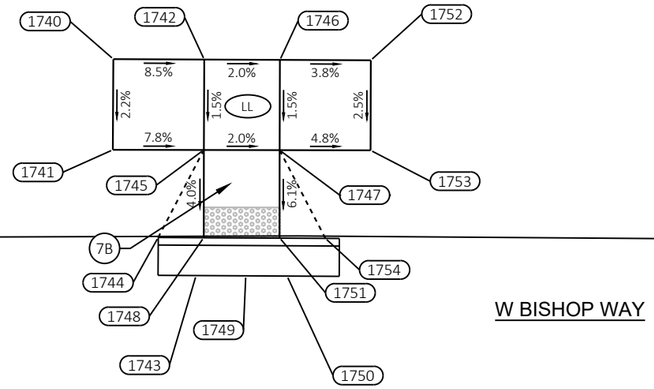


N DWY AT STATION 464+84					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1700	464+13.78	59.02' LT	832.55	170136.77	722578.40
1701	464+13.78	59.02' LT	832.55	170136.77	722578.40
1702	464+13.69	64.20' LT	832.75	170141.91	722579.01
1703	464+44.71	52.27' LT	830.14	170126.10	722607.75
1704	464+50.37	57.38' LT	830.09	170130.47	722613.92
1705	464+28.96	59.18' LT	830.23	170134.94	722593.23
1706	464+34.03	59.18' LT	830.13	170134.30	722598.19
1707	464+28.95	64.25' LT	830.14	170139.97	722593.89
1708	464+34.04	64.25' LT	830.04	170139.32	722598.85
1709	464+43.20	59.28' LT	829.35	170133.24	722607.15
1710	464+43.12	64.28' LT	829.10	170138.21	722607.71
1711	464+53.38	59.42' LT	828.76	170132.12	722617.12
1712	464+49.30	59.37' LT	828.81	170132.57	722613.12
1713	464+49.23	64.37' LT	828.47	170137.54	722613.67
1714	464+59.85	64.49' LT	828.26	170136.38	722624.06
1715	464+60.84	61.63' LT	828.35	170133.42	722624.67

N DWY AT STATION 464+84					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1716	464+63.06	67.53' LT	828.25	170139.00	722627.55
1717	464+68.05	69.95' LT	827.09	170140.81	722632.71
1718	465+25.34	64.64' LT	825.96	170129.19	722688.04
1719	465+08.65	62.42' LT	825.95	170128.74	722671.48
1720	465+23.42	56.05' LT	825.95	170120.85	722685.25
1721	465+07.20	67.71' LT	825.93	170134.16	722670.64
1722	465+20.26	64.67' LT	825.91	170129.75	722683.07
1723	465+25.31	59.64' LT	825.88	170124.22	722687.48
1724	465+09.92	64.71' LT	825.85	170130.88	722672.97
1725	465+20.23	59.67' LT	825.83	170124.78	722682.51
1726	465+15.94	59.69' LT	825.77	170125.25	722678.32
1727	465+20.87	53.98' LT	825.72	170119.05	722682.53
1728	465+02.24	70.21' LT	825.48	170137.18	722666.08
1729	465+40.60	64.52' LT	825.05	170127.52	722702.94
1730	465+40.55	59.52' LT	824.97	170122.55	722702.39

LEGEND

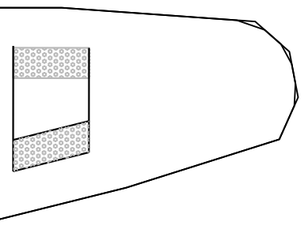
- DETECTABLE WARNING FIELD
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- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
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- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER



W BISHOP WAY

BLUEMOUND RD (USH 18)

BISHP W					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1740	470+76.40	64.21' LT	798.18	170107.77	723231.58
1741	470+76.37	58.23' LT	798.06	170101.79	723231.55
1742	470+82.40	64.18' LT	797.68	170107.73	723237.58
1743	470+81.87	49.94' LT	797.44	170093.50	723237.04
1744	470+79.37	52.45' LT	797.85	170096.01	723234.54
1745	470+82.37	58.22' LT	797.59	170101.78	723237.55
1746	470+87.39	64.16' LT	797.58	170107.71	723242.57
1747	470+87.38	58.21' LT	797.49	170101.77	723242.55
1748	470+82.37	52.44' LT	797.36	170095.99	723237.54
1749	470+85.14	49.92' LT	797.27	170093.48	723240.31
1750	470+87.87	49.91' LT	797.13	170093.46	723243.04
1751	470+87.37	52.43' LT	797.13	170095.99	723242.54
1752	470+93.39	64.15' LT	797.35	170107.70	723248.57
1753	470+93.38	58.21' LT	797.20	170101.76	723248.55
1754	470+90.40	52.40' LT	796.98	170095.95	723245.57



LEGEND

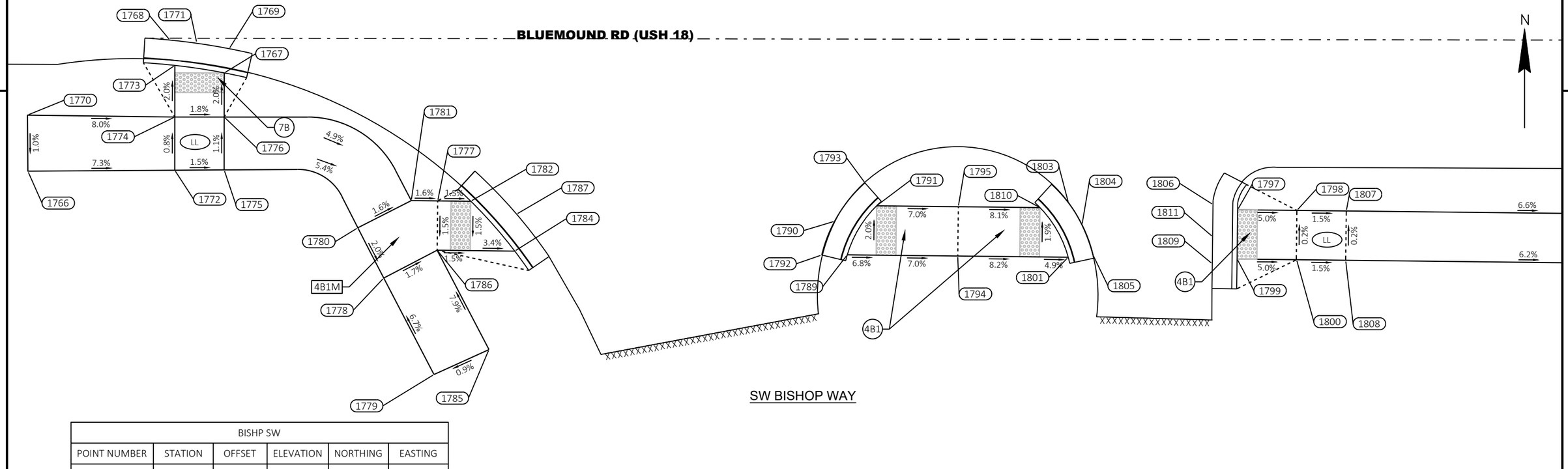
	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
1AM	CURB RAMP TYPE 1A - MODIFIED
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3	CURB RAMP TYPE 3
3M	CURB RAMP TYPE 3 - MODIFIED
4A1	CURB RAMP TYPE 4A1
4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER

N

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - BISHOP WAY	SHEET 177	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Bishp-w
PLOT DATE : 3/14/2023 10:21 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



BISHP SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1766	470+67.47	63.62' RT	798.84	169979.94	723222.57
1767	470+87.34	53.66' RT	797.52	169989.89	723242.45
1768	470+81.85	50.34' RT	797.76	169993.22	723236.95
1769	470+87.85	51.21' RT	797.51	169992.34	723242.95
1770	470+67.42	57.95' RT	798.89	169985.62	723222.52
1771	470+84.56	50.60' RT	797.65	169992.95	723239.67
1772	470+82.34	63.52' RT	797.75	169980.04	723237.44
1773	470+82.34	52.90' RT	797.60	169990.65	723237.45
1774	470+82.34	58.13' RT	797.71	169985.43	723237.44
1775	470+87.34	63.48' RT	797.67	169980.07	723242.44
1776	470+87.34	58.13' RT	797.61	169985.42	723242.44
1777	471+08.97	66.61' RT	796.53	169976.93	723264.07
1778	471+03.51	74.42' RT	796.56	169969.12	723258.61
1779	471+08.61	84.20' RT	797.27	169959.34	723263.69

BISHP SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1780	471+00.89	69.34' RT	796.67	169974.21	723255.98
1781	471+06.29	66.58' RT	796.57	169976.96	723261.39
1782	471+12.32	66.64' RT	796.48	169976.89	723267.41
1784	471+16.77	71.69' RT	796.25	169971.85	723271.86
1785	471+14.17	81.66' RT	797.35	169961.87	723269.25
1786	471+08.92	71.61' RT	796.46	169971.93	723264.01
1787	471+16.95	67.95' RT	796.39	169975.59	723272.04
1789	471+50.45	72.04' RT	794.36	169971.47	723305.54
1790	471+49.16	68.64' RT	794.13	169974.87	723304.26
1791	471+53.42	67.07' RT	794.06	169976.44	723308.52
1792	471+47.86	72.06' RT	794.19	169971.45	723302.95
1793	471+52.24	64.76' RT	793.92	169978.75	723307.33
1794	471+61.64	72.16' RT	793.58	169971.35	723316.73
1795	471+61.69	67.16' RT	793.48	169976.35	723316.78

BISHP SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1797	471+89.97	67.46' RT	792.57	169976.03	723345.07
1798	471+95.97	67.52' RT	792.27	169975.97	723351.07
1799	471+89.93	72.46' RT	792.59	169971.03	723345.02
1800	471+95.94	72.51' RT	792.29	169970.97	723351.04
1801	471+72.81	72.28' RT	792.76	169971.22	723327.91
1803	471+72.84	66.78' RT	792.73	169976.72	723327.93
1804	471+74.22	68.99' RT	792.63	169974.51	723329.31
1805	471+75.34	72.07' RT	792.55	169971.43	723330.43
1806	471+87.48	66.93' RT	792.60	169976.56	723342.58
1807	472+00.97	67.57' RT	792.20	169975.91	723356.07
1808	472+00.92	72.57' RT	792.21	169970.92	723356.01
1809	471+87.41	72.93' RT	792.52	169970.56	723342.50
1810	471+69.95	67.25' RT	792.81	169976.26	723325.04
1811	471+87.44	70.18' RT	792.56	169973.31	723342.54

LEGEND

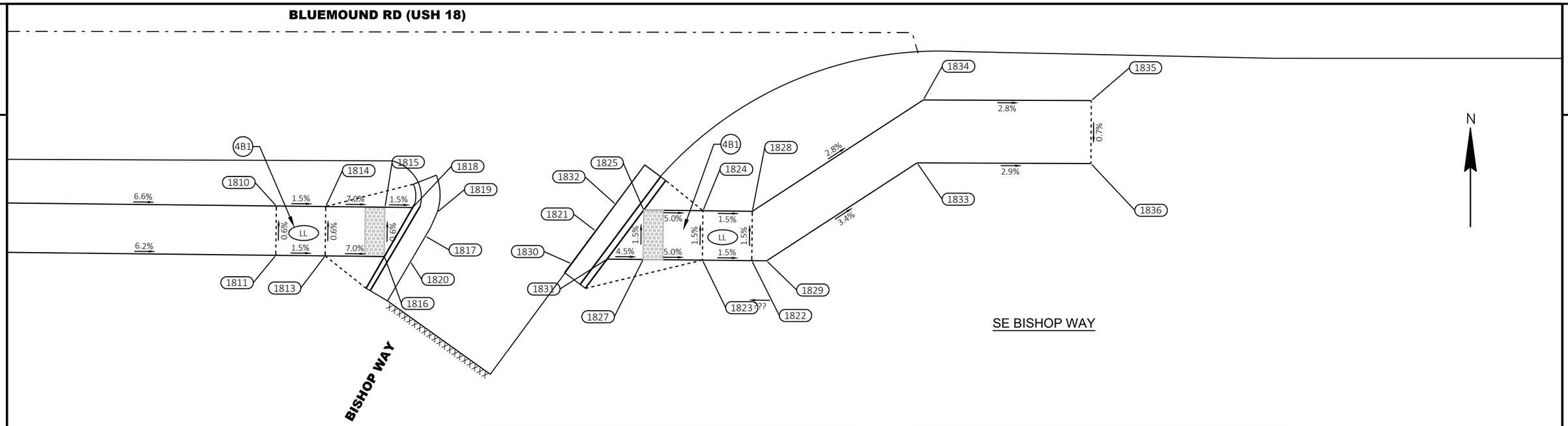
- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
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- 2 — CURB RAMP TYPE 2
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- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - BISHOP WAY	SHEET 178	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Bishp-sw

PLOT DATE : 3/14/2023 10:21 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



BISHP SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1810	472+32.79	67.90' RT	790.10	169975.56	723387.88
1811	472+32.73	72.90' RT	790.13	169970.56	723387.82
1813	472+37.73	72.96' RT	790.05	169970.50	723392.82
1814	472+37.78	67.96' RT	790.02	169975.50	723392.88
1815	472+43.78	68.02' RT	789.60	169975.44	723398.88
1816	472+43.73	73.02' RT	789.63	169970.44	723398.82
1817	472+47.88	70.96' RT	789.66	169972.50	723402.97
1818	472+46.59	68.05' RT	789.56	169975.40	723401.69
1819	472+49.08	68.52' RT	789.66	169974.93	723404.17
1820	472+46.36	73.55' RT	789.66	169969.91	723401.46
1821	472+65.10	70.41' RT	788.82	169973.03	723420.20
1822	472+80.93	73.41' RT	788.34	169970.02	723436.02
1823	472+75.93	73.36' RT	788.42	169970.08	723431.02

BISHP SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1824	472+75.98	68.36' RT	788.34	169975.08	723431.08
1825	472+69.98	68.30' RT	788.64	169975.15	723425.08
1827	472+69.93	73.30' RT	788.72	169970.15	723425.02
1828	472+80.98	68.41' RT	788.27	169975.02	723436.08
1829	472+82.43	73.43' RT	788.29	169970.00	723437.53
1830	472+62.64	73.72' RT	788.91	169969.72	723417.73
1831	472+66.28	73.26' RT	788.88	169970.18	723421.37
1832	472+67.12	67.70' RT	788.77	169975.74	723422.22
1833	472+97.66	63.50' RT	787.67	169979.92	723452.76
1834	472+98.28	57.13' RT	787.69	169986.29	723453.38
1835	473+15.30	57.18' RT	787.21	169986.23	723470.40
1836	473+15.26	63.56' RT	787.17	169979.85	723470.36

LEGEND

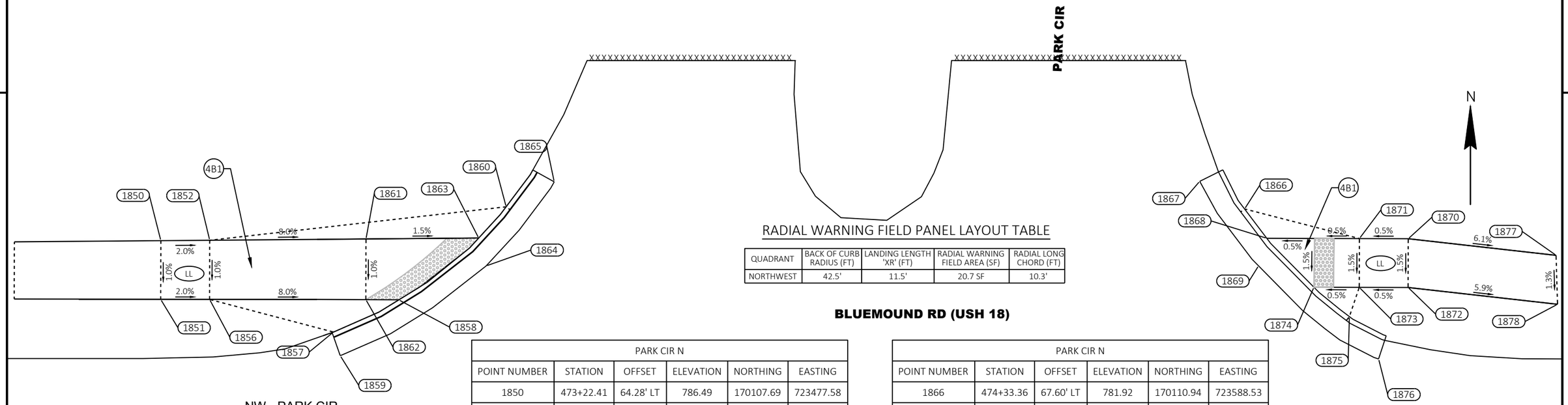
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- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - BISHOP WAY	SHEET 179	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Bishp-se

PLOT DATE : 3/14/2023 10:21 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:10 FT

2



NW - PARK CIR

NE - PARK CIR

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	42.5'	11.5'	20.7 SF	10.3'

PARK CIR N

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1850	473+22.41	64.28' LT	786.49	170107.69	723477.58
1851	473+22.39	58.26' LT	786.43	170101.67	723477.56
1852	473+27.41	64.33' LT	786.39	170107.73	723482.58
1856	473+27.39	58.27' LT	786.33	170101.67	723482.56
1857	473+40.09	54.93' LT	785.78	170098.33	723495.25
1858	473+46.77	58.23' LT	785.49	170101.63	723501.94
1859	473+40.77	52.52' LT	785.36	170095.92	723495.94
1860	473+57.75	67.78' LT	785.21	170111.16	723512.93
1861	473+43.41	64.47' LT	785.11	170107.87	723498.58
1862	473+43.39	58.26' LT	785.05	170101.66	723498.56
1863	473+54.94	64.57' LT	785.00	170107.96	723510.12
1864	473+55.71	61.71' LT	784.76	170105.10	723510.88
1865	473+62.67	70.33' LT	784.55	170113.72	723517.85

PARK CIR N

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1866	474+33.36	67.60' LT	781.92	170110.94	723588.53
1867	474+28.76	70.43' LT	781.87	170113.77	723583.94
1868	474+35.63	64.60' LT	781.70	170107.94	723590.81
1869	474+34.79	61.77' LT	781.29	170105.11	723589.96
1870	474+50.11	64.56' LT	781.25	170107.90	723605.29
1871	474+45.11	64.57' LT	781.23	170107.91	723600.29
1872	474+50.10	59.56' LT	781.17	170102.90	723605.27
1873	474+45.10	59.57' LT	781.15	170102.91	723600.27
1874	474+40.46	59.59' LT	781.13	170102.92	723595.64
1875	474+44.09	56.58' LT	780.86	170099.91	723599.26
1876	474+47.08	52.24' LT	780.47	170095.58	723602.25
1877	474+65.25	62.87' LT	780.33	170106.19	723620.42
1878	474+65.40	57.85' LT	780.26	170101.18	723620.57

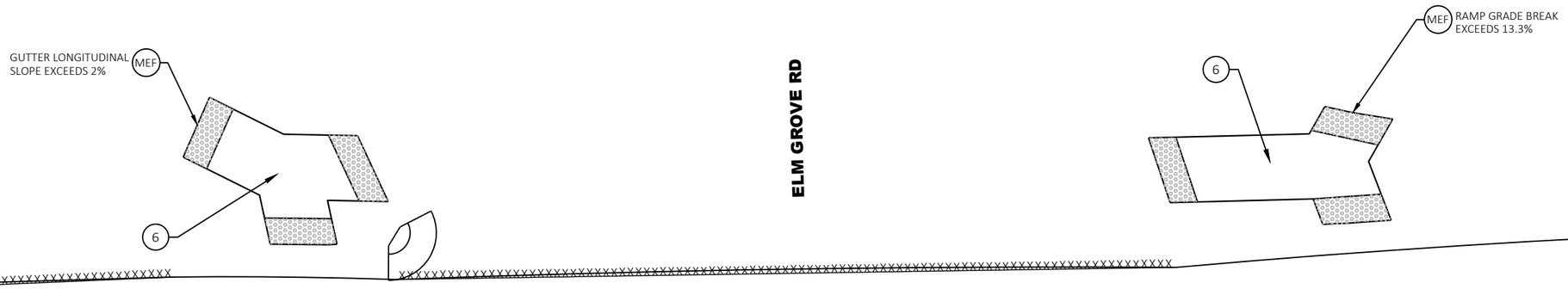
LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - PARK CIR	SHEET 180	E

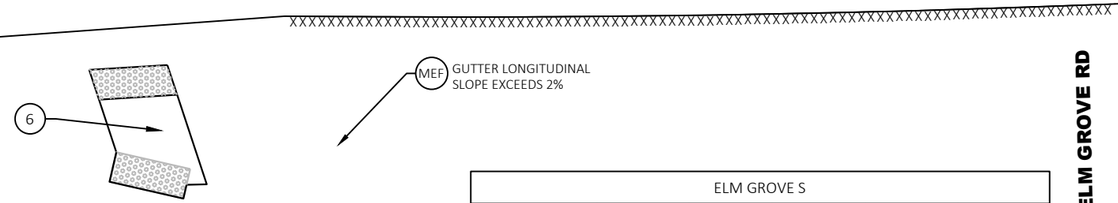
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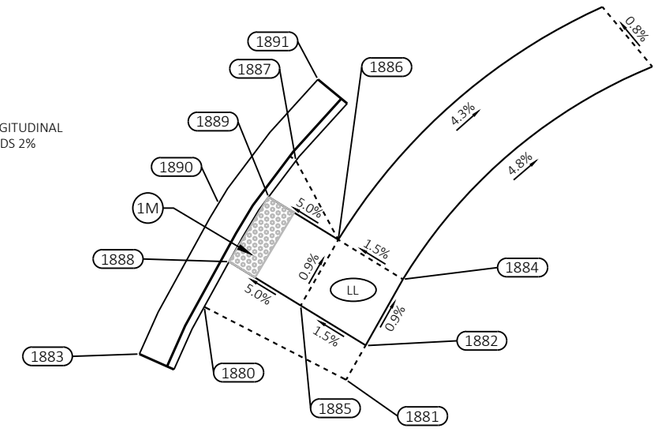


LEGEND

	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
1AM	CURB RAMP TYPE 1A - MODIFIED
2	CURB RAMP TYPE 2
3	CURB RAMP TYPE 3
3M	CURB RAMP TYPE 3 - MODIFIED
4A1	CURB RAMP TYPE 4A1
4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER



ELM GROVE S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1880	484+59.50	79.10' RT	762.57	169965.94	724616.81
1881	484+68.59	84.18' RT	762.54	169961.13	724626.17
1882	484+69.96	81.96' RT	762.50	169963.39	724627.49
1883	484+55.20	82.09' RT	762.45	169962.83	724612.53
1884	484+72.48	77.66' RT	762.45	169967.76	724629.92
1885	484+65.78	79.19' RT	762.42	169966.03	724623.17
1886	484+68.35	74.92' RT	762.38	169970.37	724625.65
1887	484+65.74	69.63' RT	762.18	169975.59	724622.86
1888	484+61.20	76.16' RT	762.16	169968.92	724618.44
1889	484+63.89	71.97' RT	762.11	169973.19	724621.05
1890	484+60.63	72.30' RT	761.99	169972.77	724617.76
1891	484+67.33	64.31' RT	761.58	169980.95	724624.31



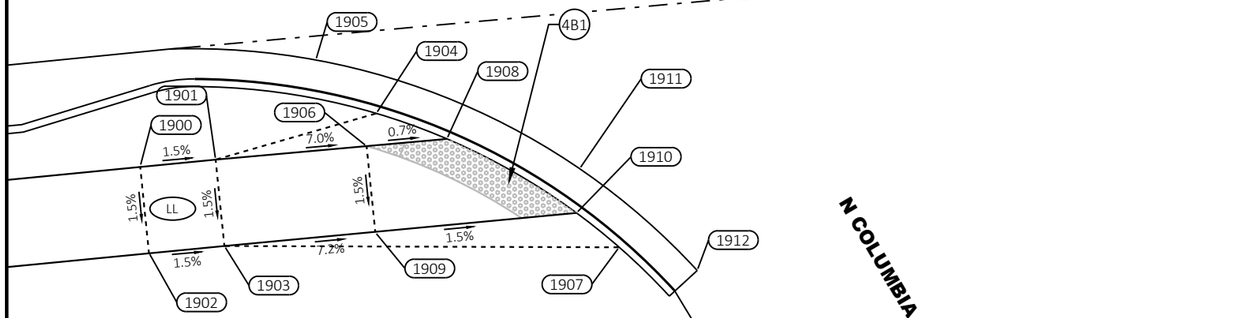
SE - ELM GROVE RD

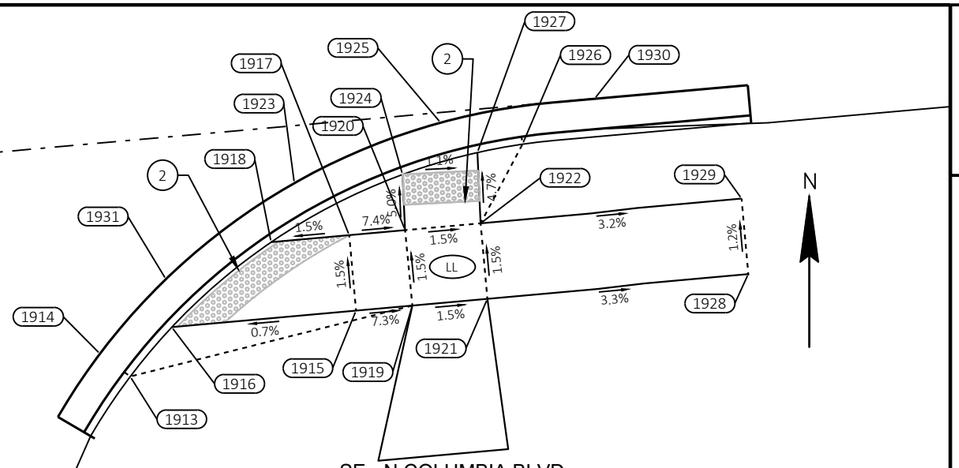
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - ELM GROVE RD	SHEET 181	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - ElmGrv-s
PLOT DATE : 3/14/2023 10:22 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHEAST	39.5'	12.2'	18.7 SF	8.6'
SOUTHWEST	43.0'	13.3'	24.0 SF	9.8'





N COLUMBIA BLVD

COLUMBIA S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1900	491+58.69	57.29' RT	740.21	170040.29	725316.94
1901	491+63.69	57.31' RT	740.13	170040.74	725321.92
1902	491+58.74	63.01' RT	740.12	170034.60	725317.51
1903	491+63.74	63.03' RT	740.05	170035.04	725322.49
1904	491+74.52	55.24' RT	739.86	170043.79	725332.52
1905	491+70.87	51.37' RT	739.48	170047.31	725328.53
1906	491+73.69	57.33' RT	739.43	170041.63	725331.88
1907	491+89.67	65.51' RT	739.43	170034.95	725348.55
1908	491+79.01	57.34' RT	739.40	170042.11	725337.18
1909	491+73.74	63.04' RT	739.35	170035.95	725332.45
1910	491+87.07	62.99' RT	739.14	170037.22	725345.73
1911	491+87.55	60.10' RT	739.10	170040.14	725345.93
1912	491+94.66	67.50' RT	738.80	170033.42	725353.69

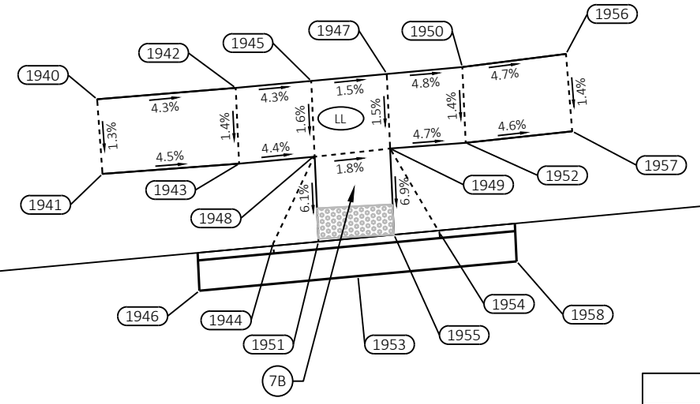
COLUMBIA S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1913	492+52.89	65.51' RT	736.77	170040.74	725411.50
1914	492+51.04	63.83' RT	736.44	170042.25	725409.51
1915	492+68.13	62.54' RT	736.38	170045.09	725426.41
1916	492+55.92	62.52' RT	736.33	170044.00	725414.25
1917	492+68.14	57.54' RT	736.31	170050.07	725425.96
1918	492+62.96	57.53' RT	736.29	170049.61	725420.80
1919	492+71.86	62.55' RT	736.11	170045.43	725430.12
1920	492+71.84	57.55' RT	736.03	170050.40	725429.64
1921	492+76.84	62.56' RT	736.03	170045.87	725435.08
1922	492+76.85	57.56' RT	735.96	170050.85	725434.63
1923	492+64.85	53.79' RT	736.04	170053.51	725422.34
1924	492+72.02	53.88' RT	735.94	170054.07	725429.48
1925	492+74.82	50.70' RT	735.75	170057.50	725431.98

COLUMBIA S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1926	492+80.08	52.61' RT	735.74	170056.08	725437.40
1927	492+77.07	52.89' RT	735.67	170055.53	725434.42
1928	492+94.13	62.51' RT	735.46	170047.51	725452.29
1929	492+94.14	57.51' RT	735.40	170052.49	725451.85
1930	492+85.09	50.06' RT	735.12	170059.07	725442.15
1931	492+55.83	59.33' RT	0.00	170047.17	725413.86

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
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- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
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- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

2



BLUEMOUND RD (USH 18)

N - N COLUMBIA BLVD

N

COLUMBIA N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1940	492+63.28	63.20' LT	736.50	170169.87	725410.05
1941	492+63.18	58.27' LT	736.44	170164.94	725410.41
1942	492+72.46	63.11' LT	736.11	170170.61	725419.20
1943	492+72.22	58.11' LT	736.04	170165.61	725419.42
1944	492+73.97	52.64' LT	735.94	170160.33	725421.66
1945	492+77.46	63.11' LT	735.89	170171.07	725424.18
1946	492+68.84	50.00' LT	735.86	170157.23	725416.80
1947	492+82.47	63.13' LT	735.81	170171.55	725429.16
1948	492+77.23	58.19' LT	735.81	170166.15	725424.40
1949	492+82.24	58.19' LT	735.74	170166.61	725429.39
1950	492+87.47	63.11' LT	735.58	170171.99	725434.15
1951	492+76.97	52.51' LT	735.54	170160.47	725424.66
1952	492+87.24	58.11' LT	735.51	170166.99	725434.38

COLUMBIA N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1953	492+79.35	50.01' LT	735.45	170158.20	725427.27
1954	492+84.97	52.37' LT	735.39	170161.06	725432.64
1955	492+81.97	52.51' LT	735.35	170160.93	725429.64
1956	492+94.37	63.34' LT	735.25	170172.85	725440.99
1957	492+94.31	58.22' LT	735.18	170167.75	725441.40
1958	492+89.87	50.01' LT	735.03	170159.16	725437.73

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
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- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
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- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
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- 0000 — POINT NUMBER

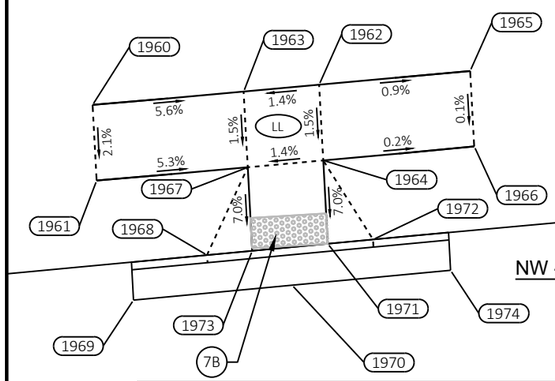
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - N COLUMBIA BLVD	SHEET 183	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Colum-n

PLOT DATE : 3/14/2023 10:22 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:10 FT

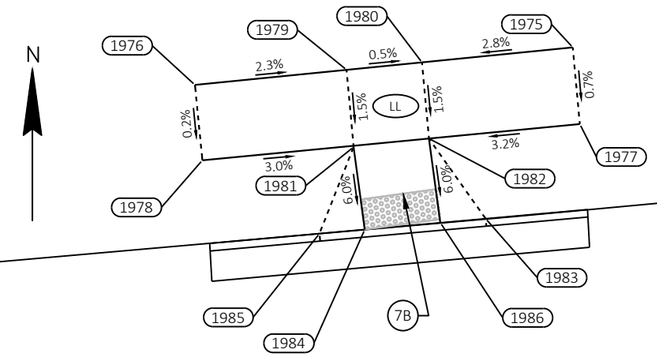
RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
NORTHWEST	35.5'	10.5'	16.7 SF	7.9'



NW - UNDERWOOD CROSSING PKWY

BLUEMOUND RD (USH 18)

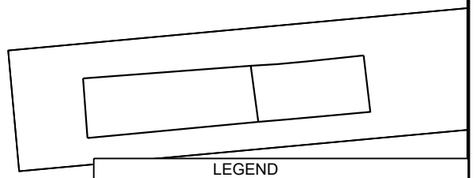


NE - UNDERWOOD CROSSING PKWY

UNDERWOOD CROSSING PKWY N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1960	495+09.98	63.08' LT	729.66	170192.35	725655.73
1961	495+09.79	58.09' LT	729.55	170187.36	725656.00
1962	495+24.99	63.03' LT	729.16	170193.68	725670.68
1963	495+19.99	63.04' LT	729.09	170193.23	725665.69
1964	495+24.80	58.03' LT	729.09	170188.68	725670.95
1965	495+35.00	63.02' LT	729.07	170194.58	725680.64
1966	495+34.81	58.04' LT	729.06	170189.61	725680.91
1967	495+19.80	58.04' LT	729.02	170188.23	725665.96
1968	495+16.59	52.52' LT	729.01	170182.44	725663.27
1969	495+11.49	50.01' LT	729.00	170179.47	725658.43
1970	495+22.00	50.03' LT	728.71	170180.45	725668.89
1971	495+24.60	52.53' LT	728.70	170183.18	725671.24
1972	495+27.60	52.54' LT	728.67	170183.47	725674.23

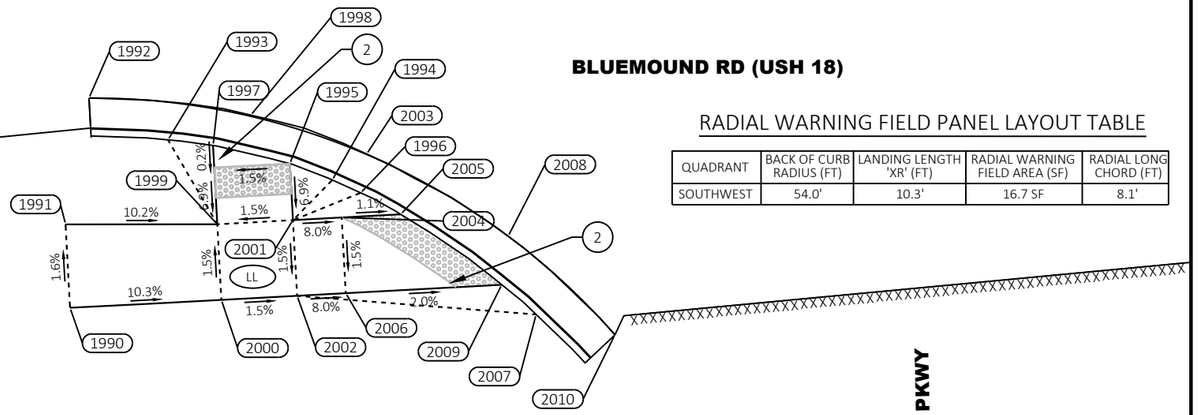
UNDERWOOD CROSSING PKWY N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1973	495+19.59	52.52' LT	728.63	170182.72	725666.26
1974	495+32.51	50.04' LT	728.45	170181.43	725679.35
1975	496+56.26	63.16' LT	727.29	170205.84	725801.37
1976	496+31.20	62.99' LT	727.26	170203.37	725776.44
1977	496+56.26	58.08' LT	727.25	170200.78	725801.84
1978	496+31.24	57.99' LT	727.25	170198.39	725776.94
1979	496+41.26	63.06' LT	727.03	170204.36	725786.45
1980	496+46.26	63.09' LT	727.01	170204.85	725791.42
1981	496+41.25	57.94' LT	726.95	170199.26	725786.91
1982	496+46.26	58.05' LT	726.93	170199.83	725791.89
1983	496+49.50	52.44' LT	726.76	170194.54	725795.63
1984	496+41.49	52.46' LT	726.62	170193.83	725787.65
1985	496+38.49	52.47' LT	726.61	170193.56	725784.66

UNDERWOOD CROSSING PKWY N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1986	496+46.50	52.45' LT	726.59	170194.27	725792.64



LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
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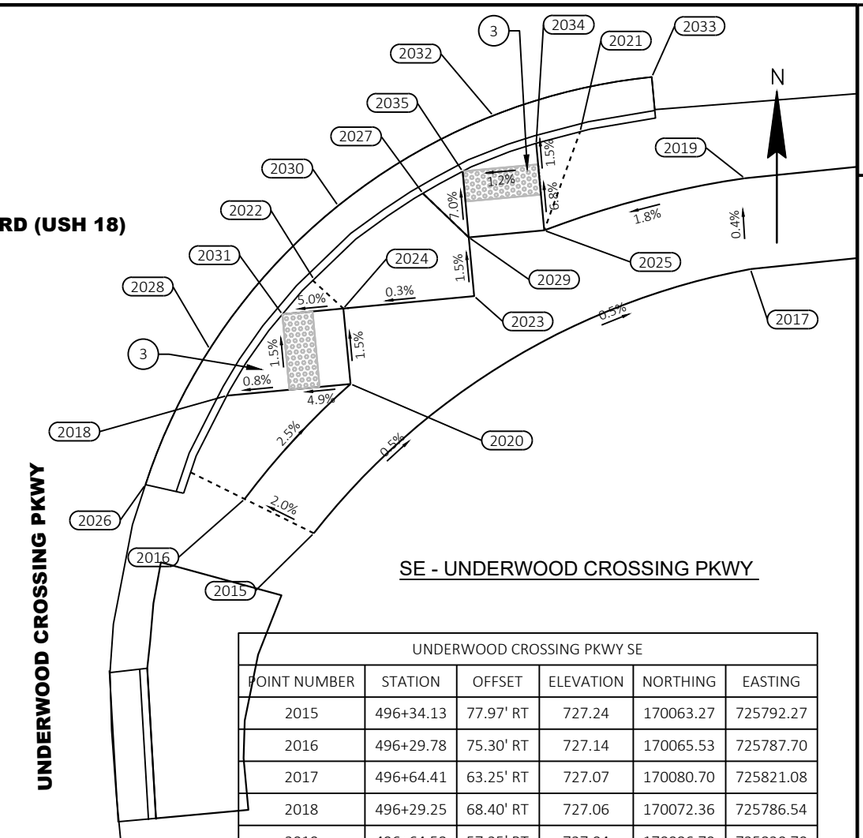


RADIAL WARNING FIELD PANEL LAYOUT TABLE

QUADRANT	BACK OF CURB RADIUS (FT)	LANDING LENGTH 'XR' (FT)	RADIAL WARNING FIELD AREA (SF)	RADIAL LONG CHORD (FT)
SOUTHWEST	54.0'	10.3'	16.7 SF	8.1'

SW - UNDERWOOD CROSSING PKWY

UNDERWOOD CROSSING PKWY SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
1990	495+05.19	64.14' RT	729.40	170065.23	725662.61
1991	495+05.39	58.63' RT	729.31	170070.74	725662.31
1992	495+07.70	50.46' RT	728.91	170079.08	725663.86
1993	495+12.63	53.69' RT	728.87	170076.31	725669.07
1994	495+23.19	57.32' RT	728.67	170073.67	725679.91
1995	495+20.50	55.99' RT	728.65	170074.75	725677.11
1996	495+24.97	58.34' RT	728.62	170072.82	725681.78
1997	495+15.56	54.33' RT	728.55	170075.94	725672.04
1998	495+18.23	52.57' RT	728.48	170077.95	725674.53
1999	495+15.37	59.53' RT	728.29	170070.75	725672.32
2000	495+15.18	64.53' RT	728.37	170065.75	725672.59
2001	495+20.36	59.72' RT	728.37	170071.02	725677.32
2002	495+20.17	64.72' RT	728.29	170066.02	725677.59
2003	495+25.61	55.82' RT	728.28	170075.38	725682.18
2004	495+23.58	59.84' RT	728.11	170071.19	725680.53
2005	495+27.48	59.99' RT	728.07	170071.40	725684.43
2006	495+23.39	64.84' RT	728.04	170066.20	725680.80
2007	495+35.77	67.39' RT	728.02	170064.79	725693.36
2008	495+34.40	62.08' RT	727.97	170069.95	725691.51
2009	495+33.69	65.23' RT	727.83	170066.75	725691.09
2010	495+40.83	69.21' RT	727.65	170063.45	725698.56

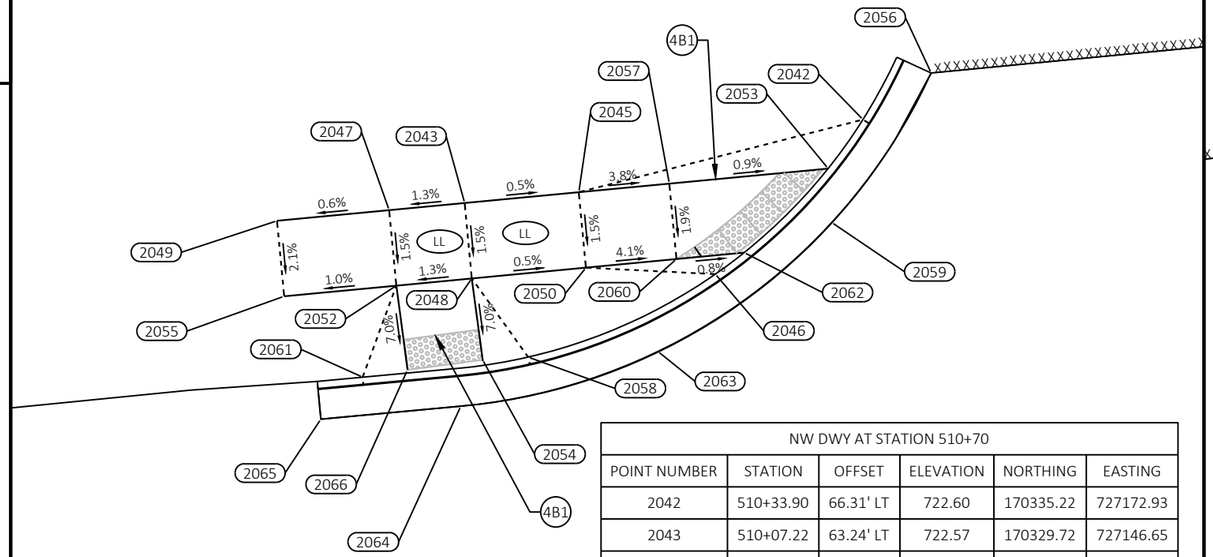


SE - UNDERWOOD CROSSING PKWY

UNDERWOOD CROSSING PKWY SE					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2015	496+34.13	77.97' RT	727.24	170063.27	725792.27
2016	496+29.78	75.30' RT	727.14	170065.53	725787.70
2017	496+64.41	63.25' RT	727.07	170080.70	725821.08
2018	496+29.25	68.40' RT	727.06	170072.36	725786.54
2019	496+64.58	57.25' RT	727.04	170086.70	725820.70
2020	496+37.44	68.38' RT	726.88	170073.13	725794.69
2021	496+54.05	53.20' RT	726.85	170089.77	725809.84
2022	496+35.67	61.28' RT	726.81	170080.03	725792.28
2023	496+46.10	63.36' RT	726.80	170078.92	725802.85
2024	496+37.43	63.38' RT	726.80	170078.10	725794.22
2025	496+51.10	59.46' RT	726.80	170083.26	725807.47
2026	496+23.36	73.76' RT	726.78	170066.48	725781.16
2027	496+43.35	56.30' RT	726.77	170085.70	725799.47
2028	496+28.40	65.23' RT	726.76	170075.43	725785.41
2029	496+46.10	59.46' RT	726.75	170082.80	725802.50
2030	496+37.71	56.60' RT	726.65	170084.88	725793.88
2031	496+33.38	63.39' RT	726.60	170077.72	725790.20
2032	496+48.43	51.61' RT	726.58	170090.83	725804.10
2033	496+59.09	50.03' RT	726.56	170093.38	725814.57
2034	496+51.09	53.74' RT	726.48	170088.95	725806.95
2035	496+46.09	55.09' RT	726.44	170087.15	725802.09

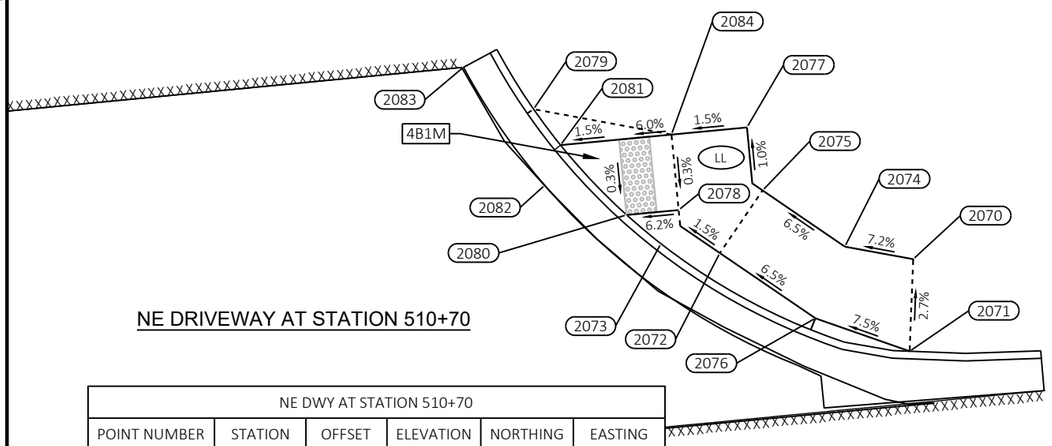
LEGEND

	DETECTABLE WARNING FIELD
1M	CURB RAMP TYPE 1 - MODIFIED
1AM	CURB RAMP TYPE 1A - MODIFIED
2	CURB RAMP TYPE 2
3	CURB RAMP TYPE 3
3M	CURB RAMP TYPE 3 - MODIFIED
4A1	CURB RAMP TYPE 4A1
4B1	CURB RAMP TYPE 4B1
4B1M	CURB RAMP TYPE 4B1 - MODIFIED
5	CURB RAMP TYPE 5
6	CURB RAMP TYPE 6
7A	CURB RAMP TYPE 7A
7B	CURB RAMP TYPE 7B
MEF	TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
LL	LEVEL LANDING
0000	POINT NUMBER



NW DRIVEWAY AT STATION 510+70

NW DWY AT STATION 510+70					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2042	510+33.90	66.31' LT	722.60	170335.22	727172.93
2043	510+07.22	63.24' LT	722.57	170329.72	727146.65
2045	510+14.78	63.26' LT	722.53	170330.43	727154.18
2046	510+23.27	57.05' LT	722.51	170325.03	727163.19
2047	510+02.22	63.22' LT	722.50	170329.25	727141.67
2048	510+07.23	58.24' LT	722.49	170324.74	727147.12
2049	509+94.78	63.20' LT	722.45	170328.54	727134.27
2050	510+14.80	58.26' LT	722.45	170325.45	727154.65
2052	510+02.23	58.22' LT	722.43	170324.27	727142.14
2053	510+31.31	63.31' LT	722.21	170331.99	727170.63
2054	510+07.45	52.83' LT	722.37	170319.38	727147.83
2055	509+94.80	58.20' LT	722.35	170323.57	727134.74
2056	510+38.66	68.96' LT	722.30	170338.30	727177.43
2057	510+20.78	63.28' LT	722.30	170331.00	727160.15
2058	510+10.46	52.73' LT	722.29	170319.55	727150.84
2059	510+31.22	59.74' LT	722.22	170328.43	727170.87
2060	510+20.80	58.28' LT	722.21	170326.02	727160.62
2061	509+99.46	52.41' LT	722.22	170318.23	727139.92
2062	510+25.28	58.29' LT	722.17	170326.44	727165.09
2063	510+19.02	52.32' LT	722.15	170319.92	727159.40
2064	510+05.74	49.91' LT	722.10	170316.31	727146.39
2065	509+96.46	49.91' LT	722.04	170315.46	727137.16
2066	510+02.46	52.63' LT	721.97	170318.71	727142.88



NE DRIVEWAY AT STATION 510+70

NE DWY AT STATION 510+70					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2070	511+26.55	54.04' LT	723.04	170331.37	727266.70
2071	511+25.80	48.01' LT	723.21	170325.29	727266.46
2072	511+13.87	55.53' LT	722.66	170331.78	727253.94
2073	511+10.05	56.47' LT	722.49	170332.39	727250.06
2074	511+22.12	55.25' LT	722.71	170332.20	727262.19
2075	511+17.03	59.40' LT	722.28	170335.91	727256.76
2076	511+19.78	50.71' LT	722.71	170327.47	727260.25
2077	511+16.35	63.63' LT	722.24	170340.06	727255.73
2078	511+11.40	58.59' LT	722.15	170334.61	727251.22
2079	511+02.88	66.03' LT	722.17	170341.27	727241.65
2080	511+07.95	58.56' LT	721.91	170334.29	727247.78
2081	511+03.99	63.51' LT	721.86	170338.90	727243.43
2082	511+03.15	60.97' LT	721.75	170336.25	727242.38
2083	510+98.53	69.21' LT	721.70	170344.03	727237.02
2084	511+11.35	63.58' LT	722.16	170339.59	727250.75

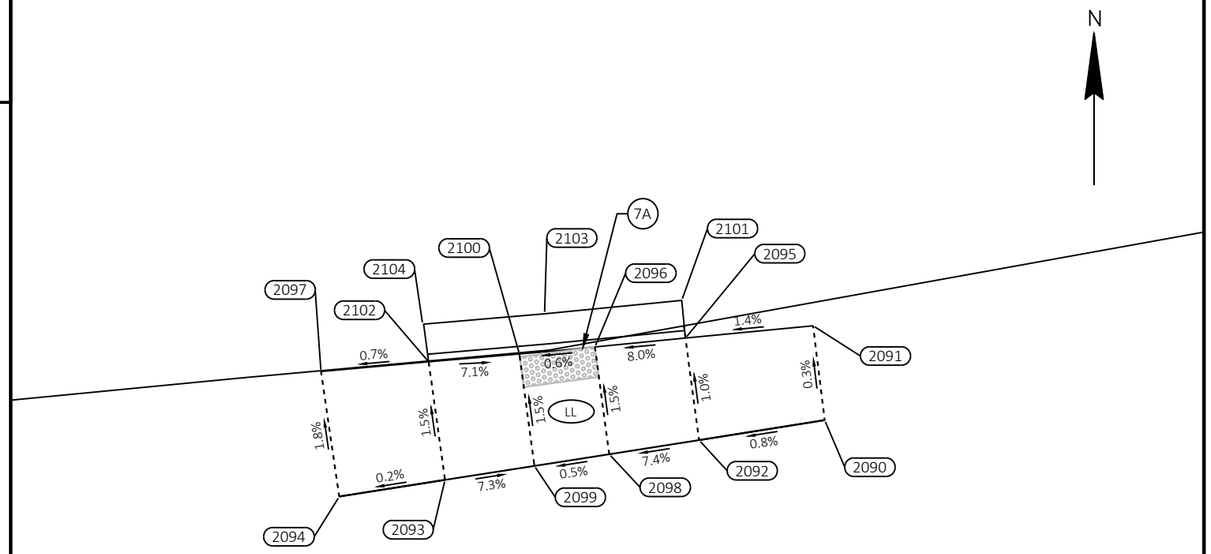
SW QUADRANT - N BARKER RD

N

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CURB RAMP DETAILS - DWY AT STATION 510+70	SHEET 186	E



SW - DRIVEWAY AT STATION 510+70

SW DWY AT STATION 510+70					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
2090	510+26.48	58.89' RT	722.62	170209.87	727177.02
2091	510+26.29	52.62' RT	722.60	170216.10	727176.25
2092	510+18.11	59.44' RT	722.55	170208.55	727168.73
2093	510+01.17	60.51' RT	722.52	170205.94	727151.96
2094	509+94.12	60.97' RT	722.50	170204.83	727144.98
2095	510+17.83	52.65' RT	722.48	170215.29	727167.83
2096	510+11.82	52.68' RT	722.39	170214.70	727161.85
2097	509+93.68	52.64' RT	722.35	170213.08	727143.78
2098	510+12.12	59.82' RT	722.11	170207.63	727162.80
2099	510+07.13	60.14' RT	722.08	170206.85	727157.86
2100	510+06.82	52.69' RT	722.07	170214.24	727156.87
2101	510+17.81	50.15' RT	722.04	170217.78	727167.58
2102	510+00.81	52.66' RT	722.03	170213.72	727150.89
2103	510+08.72	50.20' RT	722.00	170216.89	727158.53
2104	510+00.64	50.15' RT	721.94	170216.20	727150.49

LEGEND

- DETECTABLE WARNING FIELD
- 1M — CURB RAMP TYPE 1 - MODIFIED
- 1AM — CURB RAMP TYPE 1A - MODIFIED
- 2 — CURB RAMP TYPE 2
- 3 — CURB RAMP TYPE 3
- 3M — CURB RAMP TYPE 3 - MODIFIED
- 4A1 — CURB RAMP TYPE 4A1
- 4B1 — CURB RAMP TYPE 4B1
- 4B1M — CURB RAMP TYPE 4B1 - MODIFIED
- 5 — CURB RAMP TYPE 5
- 6 — CURB RAMP TYPE 6
- 7A — CURB RAMP TYPE 7A
- 7B — CURB RAMP TYPE 7B
- MEF — TECHNICAL INFEASIBILITY PRESENT CONSTRUCTED TO MAXIMUM EXTENT FEASIBLE
- LL — LEVEL LANDING
- 0000 — POINT NUMBER

2

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

N

CTH Y / N BARKER RD

38+00 39+00 40+00 41+00

WB IH-94 OFFRAMP

REPLACE RIGHT MOST SIGN ON
OVERHEAD SIGN SUPPORT
S-67-281

NORTH COUNTY Y BARKER RD

EAST 18 BLUEMOUND RD

4-1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 188	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - Sheet - (4) Barker

PLOT DATE : 3/21/2023 8:07 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

SIGNING NOTES

TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

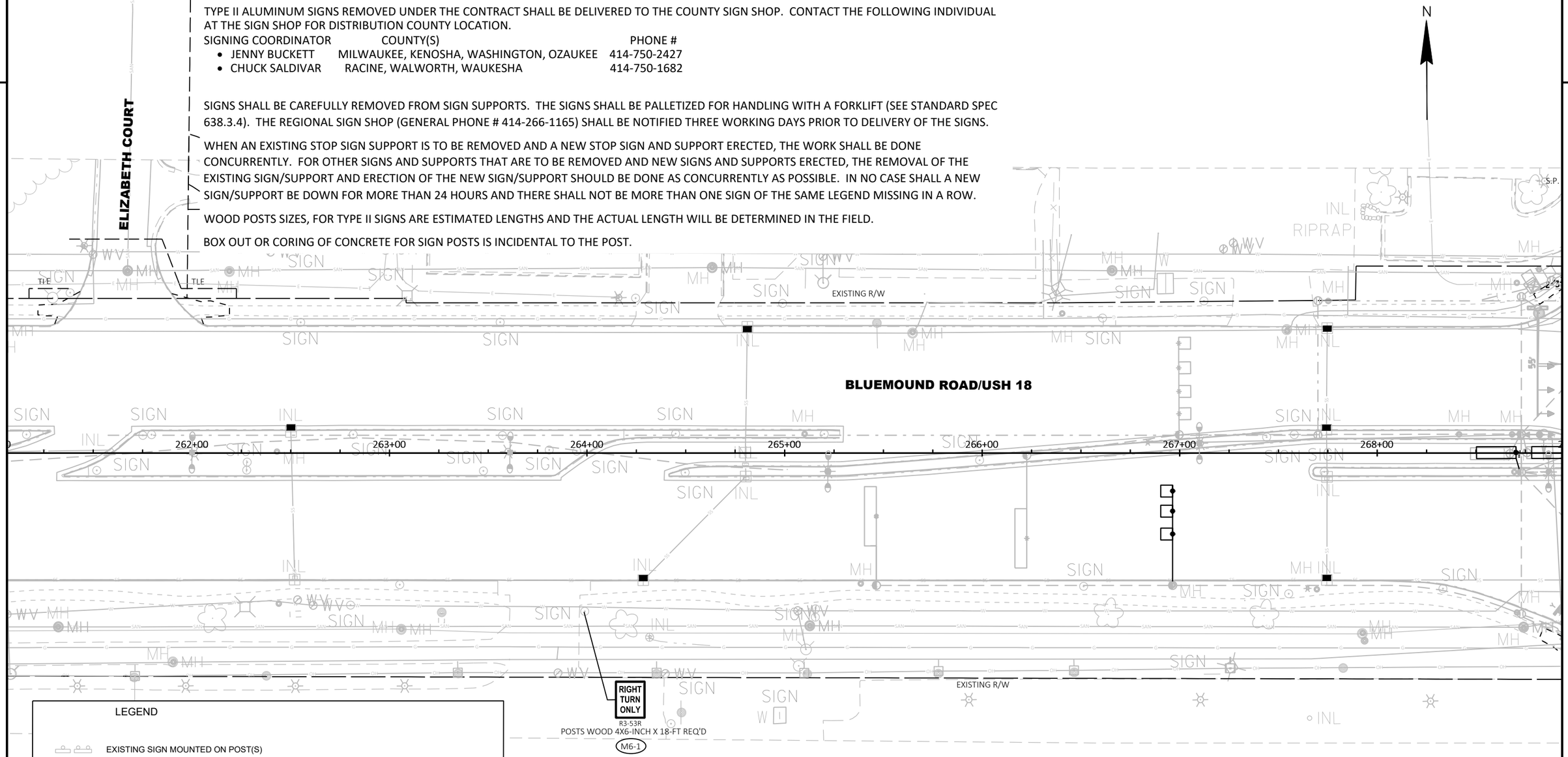
SIGNING COORDINATOR	COUNTY(S)	PHONE #
• JENNY BUCKETT	MILWAUKEE, KENOSHA, WASHINGTON, OZAUKEE	414-750-2427
• CHUCK SALDIVAR	RACINE, WALWORTH, WAUKESHA	414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (GENERAL PHONE # 414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

BOX OUT OR CORING OF CONCRETE FOR SIGN POSTS IS INCIDENTAL TO THE POST.



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 189	E

2

N JANACEK RD

BLUEMOUND ROAD/USH 18

EXISTING R/W

STOP R1-1F M7-1

ONE WAY R6-2L M7-2

ONE WAY R6-2L M7-4

STOP R1-1F S.P. M7-3

52+00 50+00 49+00 48+00

269+00 270+00 271+00 272+00 273+00 274+00 275+00

S.P.

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 190	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 07

PLOT DATE : 3/21/2023 8:08 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

FRONTAGE ROAD

WATCH FOR BUSES FROM LEFT

9-1

BLUEMOUND ROAD/USH 18

283+00 284+00 285+00 286+00 287+00 288+00 289+00

EXISTING R/W

SLOPE INTERCEPT (TYP.)

REGENCY CT

CANOPY

CMCP

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 191	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 09

PLOT DATE : 3/21/2023 8:08 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

SERVICE DRIVEWAY

WATCH FOR BUSES FROM LEFT

12-1

TLE

EXISTING R/W

SLOPE INTERCEPT (TYP.)

TLE

BLUEMOUND ROAD/USH 18

304+00 305+00 306+00 307+00 308+00 309+00 310+00

EXISTING R/W

C Culv

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 192	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 12

PLOT DATE : 3/21/2023 8:09 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

WATCH FOR BUSES FROM LEFT

13-1

TLE

TLE

EXISTING R/W

EXISTING R/W

SLOPE INTERCEPT (TYP.)

BLUEMOUND ROAD/USH 18

311+00 312+00 313+00 314+00 315+00 316+00 317+00

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 193	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 13

PLOT DATE : 3/21/2023 8:09 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

WATCH FOR BUSES FROM LEFT

17-1

SLOPE INTERCEPT (TYP.)

BLUEMOUND ROAD/USH 18

PC: 342+09.49

339+00

340+00

341+00

342+00

343+00

344+00

345+00

6'X28'
4 TURNS

TLE

EXISTING R/W

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 194	E

2

2

N

BEGIN LEFT TURN LANE

R3-20LL 24"X36"

19-1

EXISTING R/W

19-2

WATCH FOR BUSES FROM LEFT

REINDERS DR

TLE

BLUEMOUND ROAD/USH 18

PC: 356+09.04

353+00 354+00 355+00 356+00 357+00 358+00 359+00

EXISTING R/W

TLE

REINDERS DR.

WATCH FOR BUSES FROM LEFT

19-3

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 195	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 19

PLOT DATE : 3/21/2023 8:10 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

THOMAS LN

BLUEMOUND ROAD/USH 18

20-1

WATCH FOR BUSES FROM LEFT

EXISTING R/W

TLE

SLOPE INTERCEPT (TYP.)

PT: 365+31.38

360+00

361+00

362+00

363+00

364+00

365+00

366+00

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

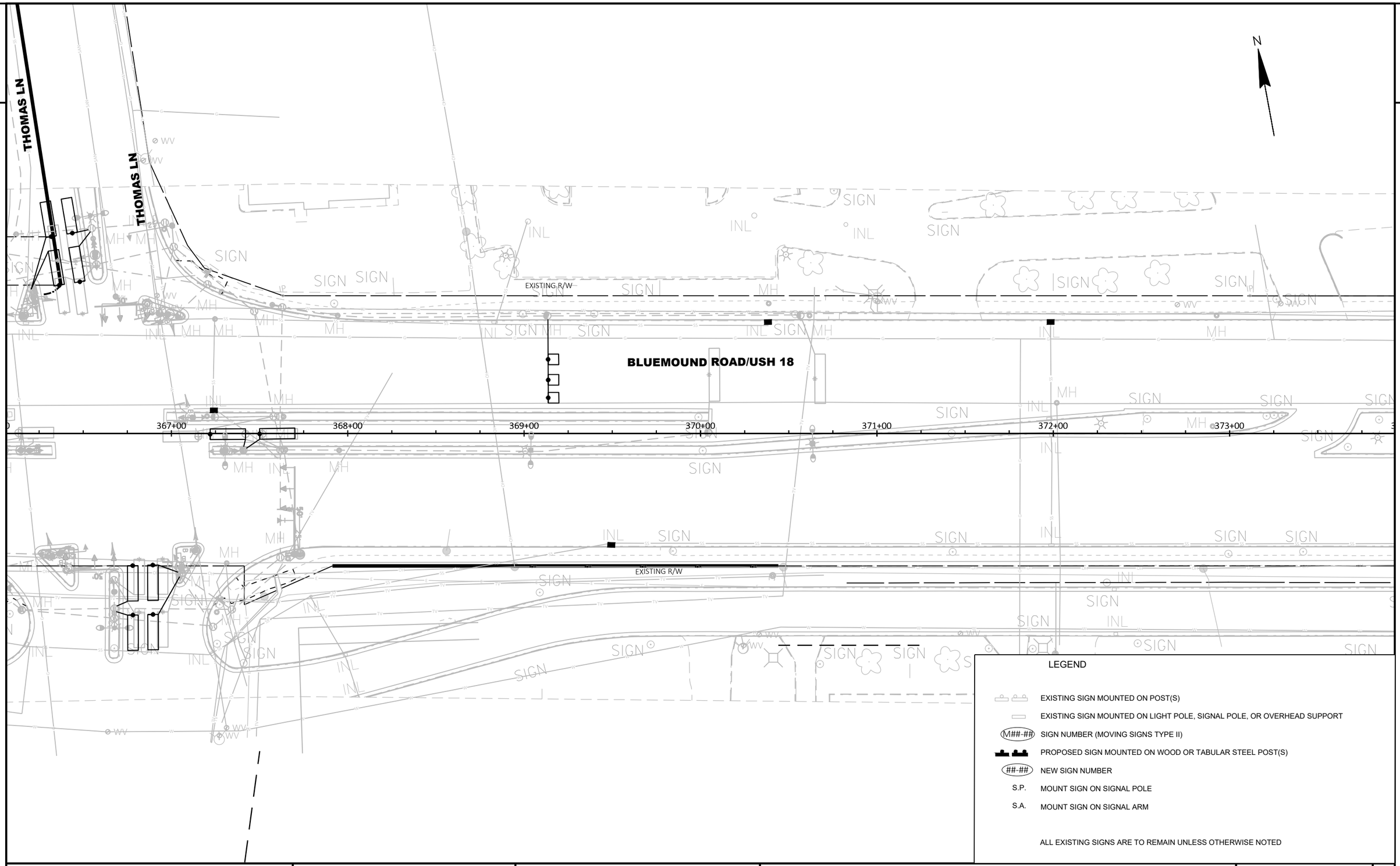
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 196	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 20

PLOT DATE : 3/21/2023 8:10 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 197	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 21

PLOT DATE : 3/21/2023 8:11 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

STOP
R1-1F
M23-3
S.P.

DO NOT ENTER
M23-2
S.P.

STOP
R1-1F
M23-1
S.P.

51+00
50+00
49+00
48+00
47+00

EXISTING R/W

TLE

PT: 384+58.28

BLUEMOUND ROAD/USH 18

381+00
382+00
383+00
384+00
385+00
386+00
387+00

N EXECUTIVE DR

ABANDON

23-1
WATCH FOR BUSES FROM LEFT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 198	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 23
PLOT DATE : 3/21/2023 8:11 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

N

WATCH FOR BUSES FROM LEFT
25-1

EXISTING R/W

PC: 398+04.49

PT: 401+18.46

BLUEMOUND ROAD/USH 18

395+00 396+00 397+00 398+00 399+00 400+00 401+00

WATCH FOR BUSES FROM LEFT
25-1

EXISTING R/W

TLE

SLOPE INTERCEPT (TYP.)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 199	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 25

PLOT DATE : 3/21/2023 8:12 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

PT: 401+18.46

402+00 403+00 404+00 405+00 406+00 407+00 408+00

52+00 82+00 81+00 50+00 80+00 49+00 79+00 48+00

BLUEMOUND ROAD/USH 18

N MOORLAND RD

EXISTING R/W

EXISTING R/W

26-1
WATCH FOR BUSES FROM LEFT

6 - 6' X 20' 3 TURNS EACH

4 - 6' X 20' 3 TURNS EACH

4 - 6' X 20' 3 TURNS EACH

220' TO NEAR RIGHT SIGNAL
3 - 6' X 6'
5 TURNS EA.

220' TO NEAR RIGHT SIGNAL
3 - 6' X 6'
5 TURNS EA.

50' TO RADAR DETECTION UNIT

50' TO RADAR DETECTION UNIT

4 - 6' X 20' 3 TURNS EACH

4 - 6' X 20' 4 TURNS EACH

4 - 6' X 20' 4 TURNS EACH

3-6'X6' 5 TURNS EACH

M26-1
ONE WAY
R6-2R

SB18

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- (M##-##) SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- (##-##) NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 200	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 26

PLOT DATE : 3/21/2023 8:12 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

4'x10"&2'x10"

BLUEMOUND ROAD/USH 18

EXISTING R/W

409+00 410+00 411+00 412+00 413+00 414+00 415+00

27-1

WATCH FOR BUSES FROM LEFT

27-2

WATCH FOR BUSES FROM LEFT

SLOPE INTERCEPT (TYP.)

EXISTING R/W

TLE

N FAIRWAY DR

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 201	E

2

2

N

TERRACE DR

28-1

WATCH FOR BUSES FROM LEFT

PC: 416+31.61

EXISTING R/W

BLUEMOUND ROAD/USH 18

416+00

417+00

418+00

419+00

420+00

421+00

422+00

28-2

WATCH FOR BUSES FROM LEFT

WESTMOOR DR

EXISTING R/W

28-3

WATCH FOR BUSES FROM LEFT

SLOPE INTERCEPT (TYP.)

N PROSPECT DR

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- (M##-##) SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- (##-##) NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 202	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 28

PLOT DATE : 3/21/2023 8:13 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

30-1

WATCH FOR BUSES FROM LEFT

EXISTING R/W

ROSEDALE DR

PC: 431+13.07

EXISTING R/W

CRYSTAL LN

BLUEMOUND ROAD/USH 18

430+00

431+00

432+00

433+00

434+00

435+00

436+00

30-2

WATCH FOR BUSES FROM LEFT

EXISTING R/W

N ROSEDALE DR

EXISTING R/W

N ELMRIDGE AVE

SLOPE INTERCEPT (TYP.)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 203	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 30

PLOT DATE : 3/21/2023 8:13 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

FLORENCE DR

SUNNYSLOPE RD

BLUEMOUND ROAD/USH 18

EXISTING R/W

EXISTING R/W

451+00 452+00 453+00 454+00 455+00 456+00 457+00

52+00 51+00 50+00 49+00

M33-2 R4-7

M33-1 STOP R1-1F S.P.

24

SIGN INL MH W OH TV G S

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

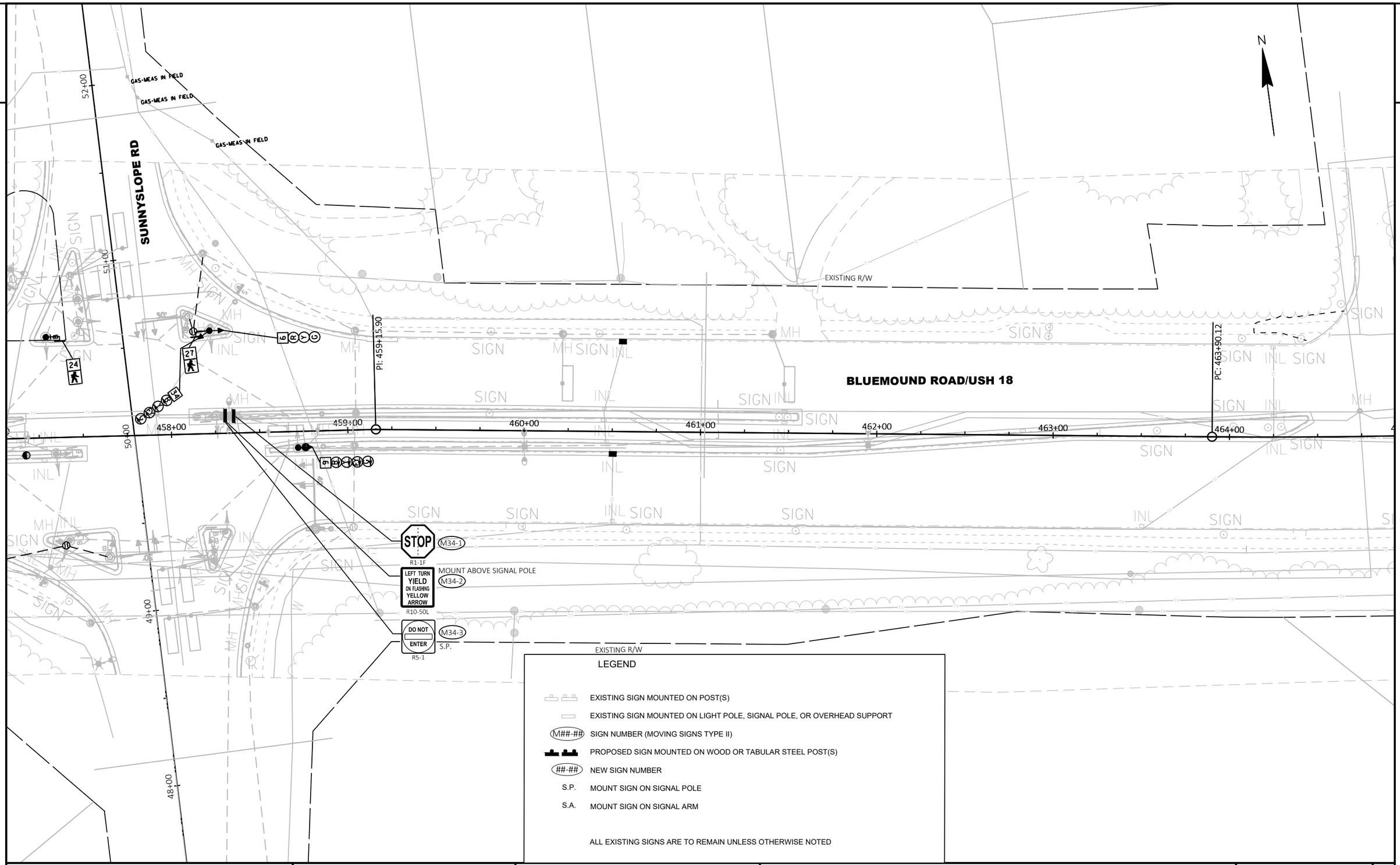
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 204	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 33

PLOT DATE : 3/21/2023 8:14 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 205	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 34

PLOT DATE : 3/21/2023 8:14 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

M39-1
UNDERWOOD CROSSING PARKWAY
S.A.

M39-2
R4-7
S.P.

DO NOT ENTER
M39-11 M39-13
R5-1
S.P.

STOP
M39-10 M39-12
R1-1F
S.P.

EXISTING R/W

BLUEMOUND ROAD/USH 18

493+00 494+00 495+00 496+00 497+00 498+00 499+00

M39-9
R4-7
S.P.

M39-8
UNDERWOOD CROSSING PARKWAY

N COLUMBIA BLVD

EXISTING R/W

M39-3
STOP
R1-1F

M39-4
DO NOT ENTER
R5-1
S.P.

UNDERWOOD CROSSING PKWY

ONE WAY
R6-2L
M39-7
S.P.

STOP
M39-5
R1-1F

DIVIDED HIGHWAY
M39-6
R6-3

COLUMBIA BLVD

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M###-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 206	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 39

PLOT DATE : 3/21/2023 8:14 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

BLUEMOUND ROAD/USH 18

EXISTING R/W

EXISTING R/W

500+00 501+00 502+00 503+00 504+00 505+00 506+00

PB17

PB4

MWFN FOC

} (W. BLUEMOUND RD)

40-1

WATCH FOR BUSES FROM LEFT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 207	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 40

PLOT DATE : 3/21/2023 8:15 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

2

N

124TH STREET

BLUEMOUND ROAD/USH 18

EXISTING R/W

EXISTING R/W

M41-1 STOP R1-1F S.P.

M41-2 STOP R1-1F S.P.

M41-9 R4-7 24"X30" S.P.

M41-3 STOP R1-1F S.P.

M41-8 DO NOT ENTER R5-1 S.P.

M41-5 NO PARKING ANY TIME R7-1D S.P.

M41-4 STOP R1-1F

M41-6 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50L S.P.

M41-7 124TH ST S.A.

SB1

SB2

SB3

SB4

SB8

LED C

PC: 511+03.50

PT: 511+64.22

506+00 507+00 508+00 509+00 510+00 512+00 513+00

52+00 51+00

PBI7D

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON LIGHT POLE, SIGNAL POLE, OR OVERHEAD SUPPORT
- M##-## SIGN NUMBER (MOVING SIGNS TYPE II)
- PROPOSED SIGN MOUNTED ON WOOD OR TABULAR STEEL POST(S)
- ##-## NEW SIGN NUMBER
- S.P. MOUNT SIGN ON SIGNAL POLE
- S.A. MOUNT SIGN ON SIGNAL ARM

ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SIGNING PLAN	SHEET 208	E

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VX VIDEO DETECTION CAMERA
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- V COMMUNICATIONS VAULT
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN

R/W IS OFF THE PAGE

CTH JJ (BLUEMOUND RD)

USH 18 (E. MORELAND BLVD)

USH 18 (W. BLUEMOUND RD)

IH 94 / STH 164 WB ON RAMP

R/W IS OFF THE PAGE

CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
3. REMOVE AND SALVAGE AUTOSCAOPE CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.

TRAFFIC CONTROL SIGNAL
USH 18 (W. BLUEMOUND RD/E. MORELAND BLVD) & CTH JJ (BLUEMOUND RD)
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0389

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 209 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0389_R5-REM.DWG
LAYOUT NAME - S67-0389_R5_pg1

PLOT DATE : 1/12/2023 9:57 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

LEGEND

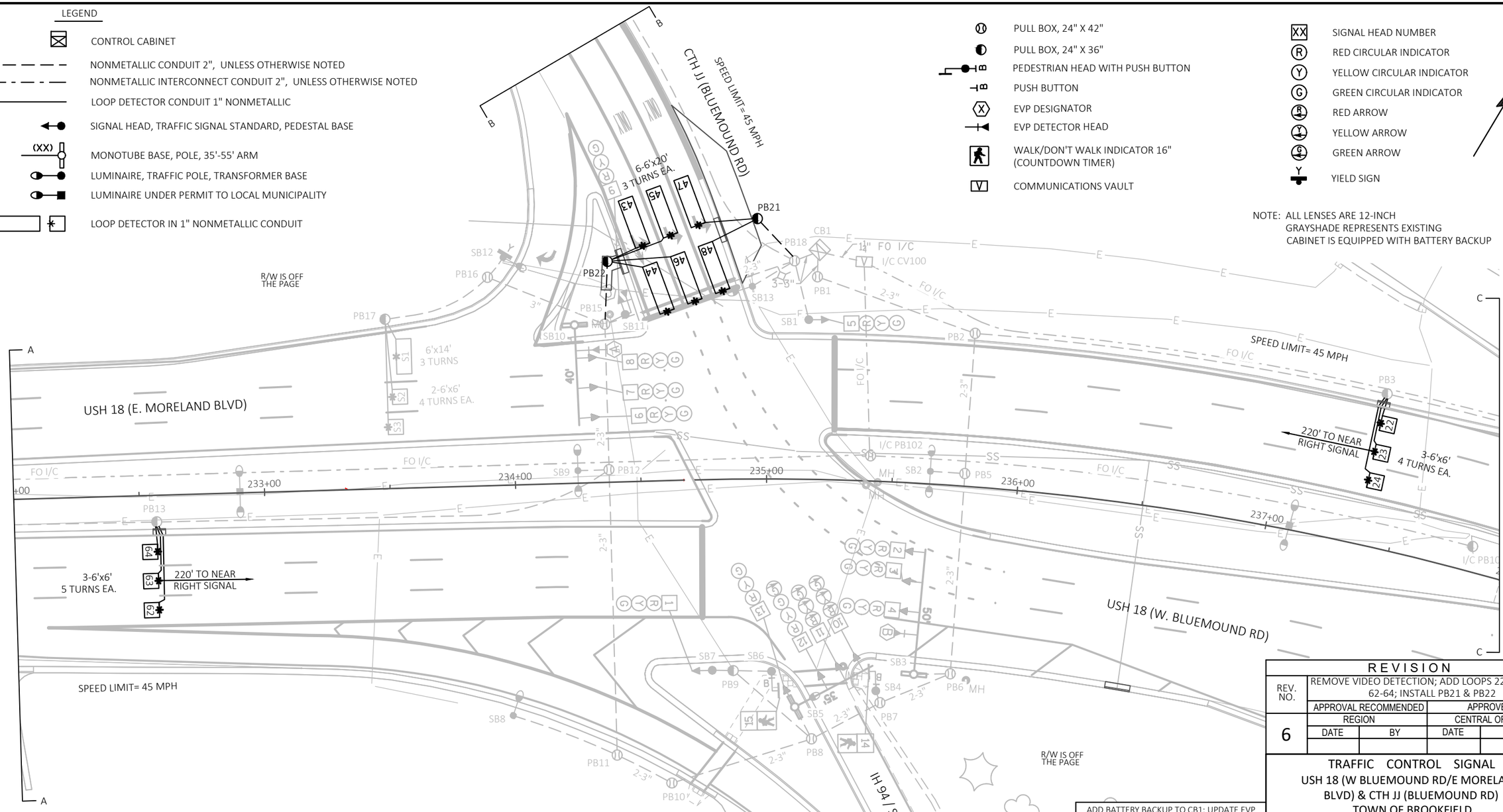
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- COMMUNICATIONS VAULT

- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN

N

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING
CABINET IS EQUIPPED WITH BATTERY BACKUP



CONSTRUCTION NOTES:

1. * LOCATION IS TO THE FRONT CENTER OF DETECTOR LOOP.
2. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

MONOTUBE STRUCTURES
SB3 = S-67-1210
SB5 = S-67-1211
SB10 = S-67-1212

REVISION				
REV. NO.	REMOVE VIDEO DETECTION; ADD LOOPS 22-24, 43-48, 62-64; INSTALL PB21 & PB22			
	APPROVAL RECOMMENDED		APPROVED	
6	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

ADD BATTERY BACKUP TO CB1; UPDATE EVP SEQUENCE 8/15/15
CHANGE CONTROLLER TO ECONOLITE 11/15
REHAB SIGNAL; ADD MONOTUBES ALL APPROACHES 2/15/12
NEW CONTROLLER IN EXISTING CABINET; SB2, SB3 & SB8 MOVED; REVERSE MAST ARM ADDED TO SB2 8/1/07
EMERGENCY VEHICLE PREEMPTION EB & WB APPROACHES ON USH 18, EB ON CTH JJ 1/96

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD/E MORELAND BLVD) & CTH JJ (BLUEMOUND RD)
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0389
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 6/6/90 — EDWARD J. FRIEDE, REGION TRAFFIC ENGINEER
APPROVED
DATE _____ — STATE TRAFFIC ENGINEER

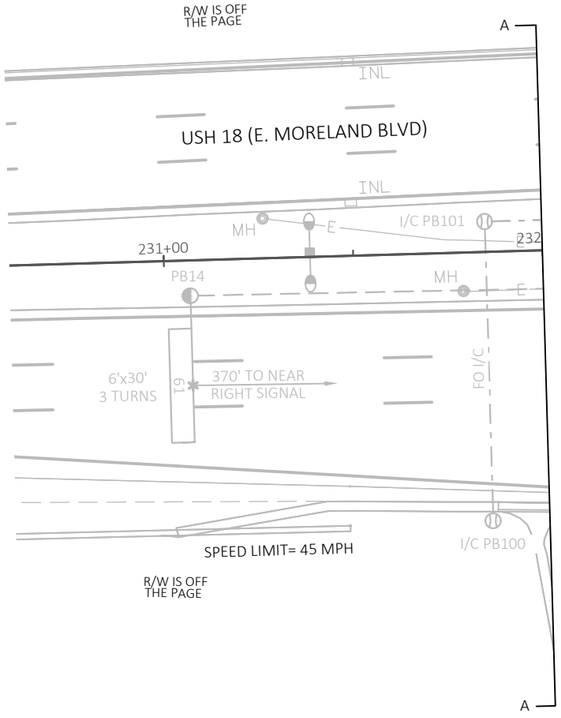
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

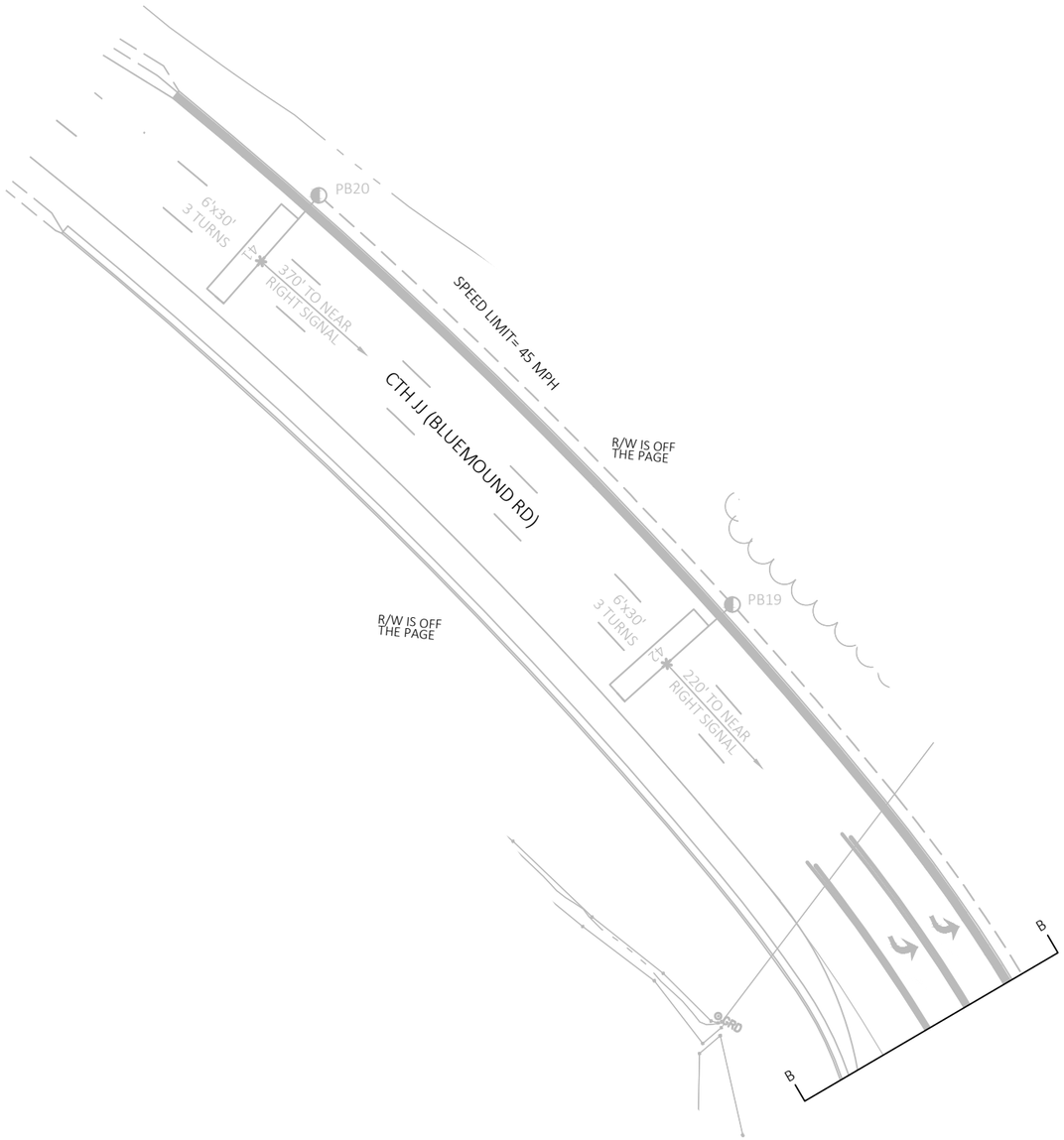
PAGE 1 OF 3

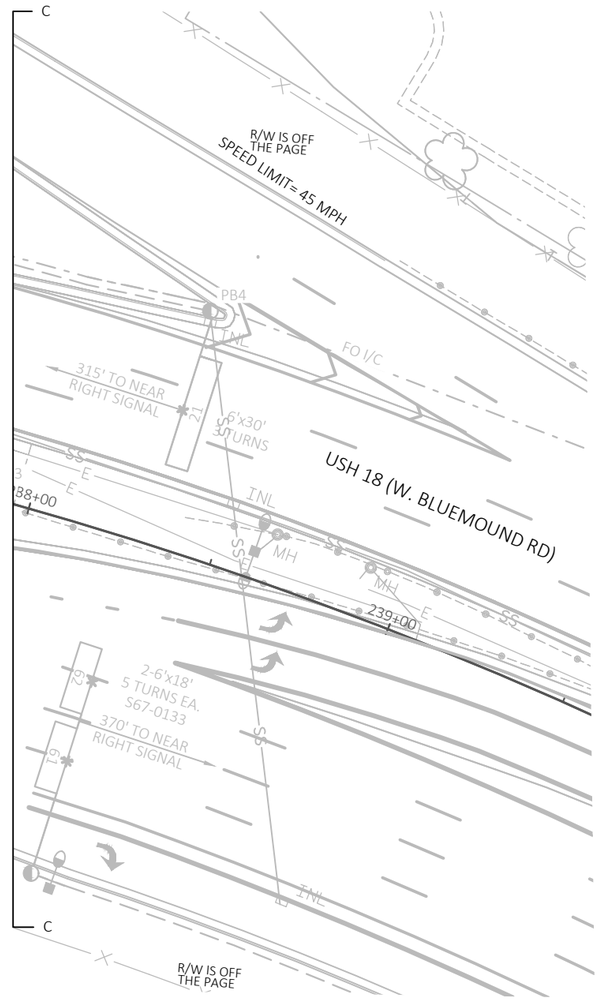
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 210 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0389_R6_18.DWG
LAYOUT NAME - S67-0389_R6_pg1
PLOT DATE : 2/1/2023 10:32 AM PLOT BY : UTIC, ANDY PLOT NAME : PLOT SCALE : ##########

2







TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD/E MORELAND BLVD) & CTH JJ (BLUEMOUND RD)
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0389

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

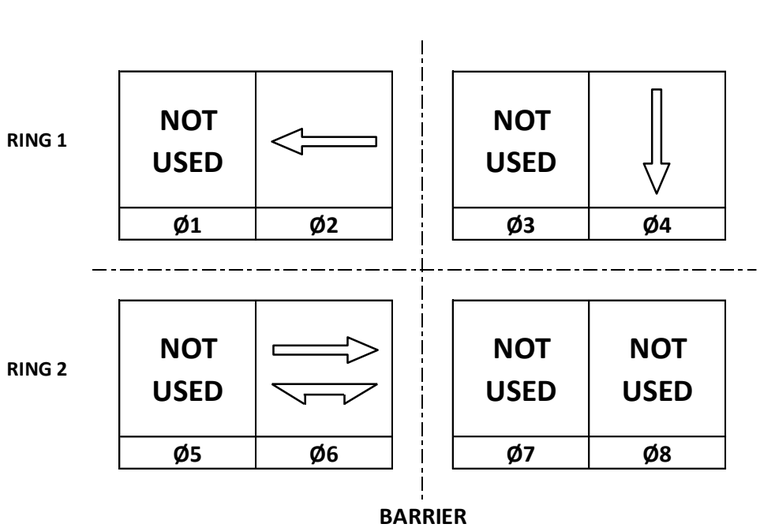
PAGE 2 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 211	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0389_R6_18.DWG
LAYOUT NAME - S67-0389_R6_pg2

PLOT DATE : 2/1/2023 9:27 AM PLOT BY : UTIC, ANDY PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1		
Ø2	5,6,7,8	R
Ø3		
Ø4	9,10,11,12,13	R ← R
Ø5		
Ø6	1,2,3,4	R
Ø7		
Ø8		
Ø2P		
Ø4P		
Ø6P	14,15	
Ø8P		
OLE		
OLF		
OLG		
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN	X
3				X
4				X
5				
6	X	2	MIN	X
7				
8				

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C
MOVEMENT	← →	← →	↓
PHASE	2+6	6+2	4

AFTER PREEMPTION SEQUENCE 2+6 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4, CONTROLLER SHALL RETURN TO PHASE 4.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 00-44

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	21	23	41	43	45	47	61	63	S1	S3							PLAN LOOP DETECTOR*(S)
CALLED PHASE	2	2	4	4	4	4	6	6									CALLED PHASE
CALL OPTION	X	X		X	X	X	X	X									CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X									EXTENTION OPTION
EXTEND TIME			X														EXTEND TIME
USE ADDED INITIAL	X	X					X	X									USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

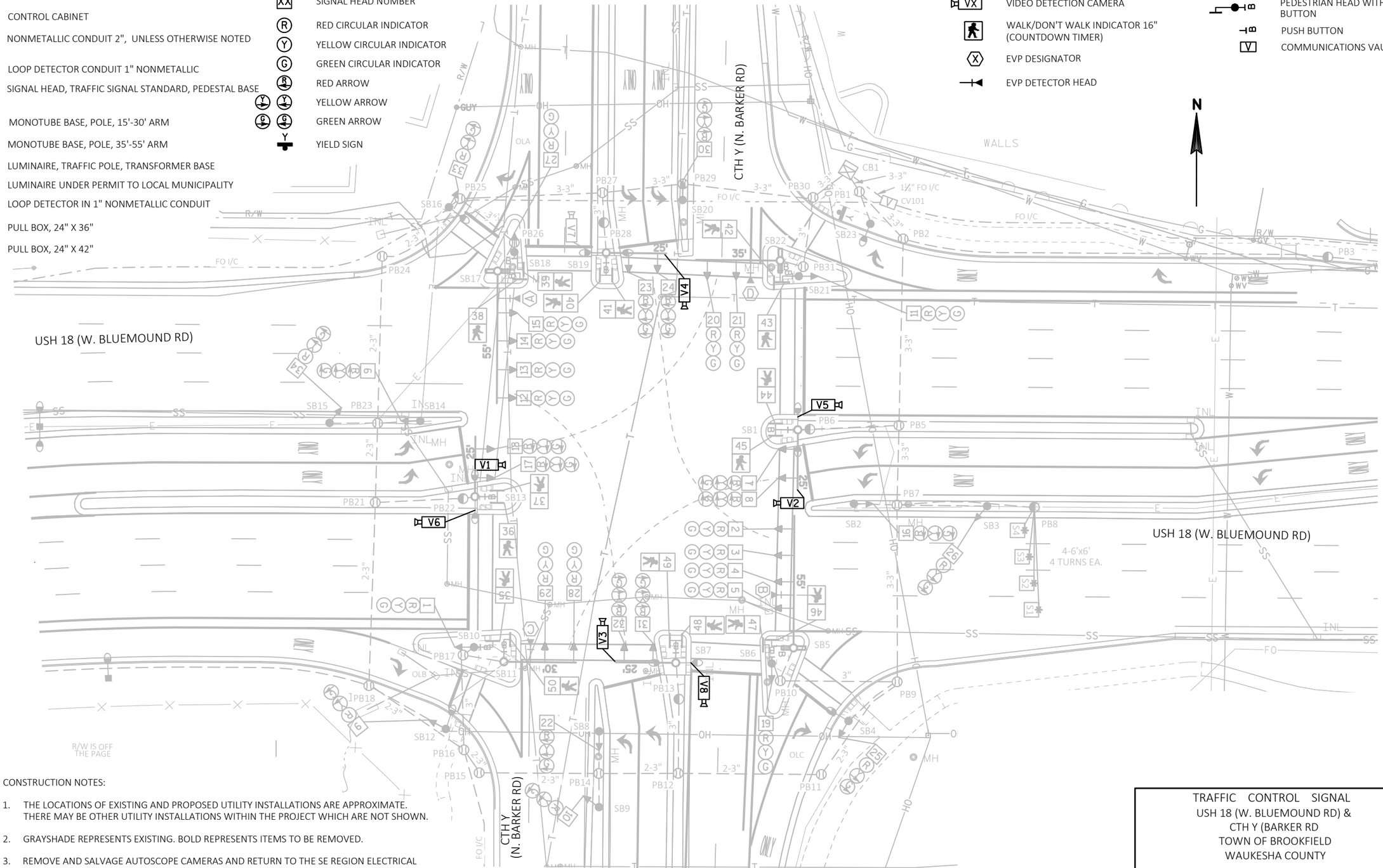
DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	22	24	42	44	46	48	62	64	S2								PLAN LOOP DETECTOR*(S)
CALLED PHASE	2	2	4	4	4	4	6	6									CALLED PHASE
CALL OPTION	X	X		X	X	X	X	X									CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X									EXTENTION OPTION
EXTEND TIME			X														EXTEND TIME
USE ADDED INITIAL	X	X					X	X									USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

USH 18 (E. MORELAND BLVD.) & CTH JJ (BLUEMOUND RD.)
TOWN OF BROOKFIELD
WAUKESHA COUNTY
SIGNAL NO: S67-0389 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 02/23 PAGE NO. 3 OF 3

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN
- VX VIDEO DETECTION CAMERA
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- V COMMUNICATIONS VAULT



CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
3. REMOVE AND SALVAGE AUTOSCOPE CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.

TRAFFIC CONTROL SIGNAL
USH 18 (W. BLUEMOUND RD) &
CTH Y (BARKER RD
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0133

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 213 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0133_R7-REM.DWG
LAYOUT NAME - S67-0133_R7_pg1

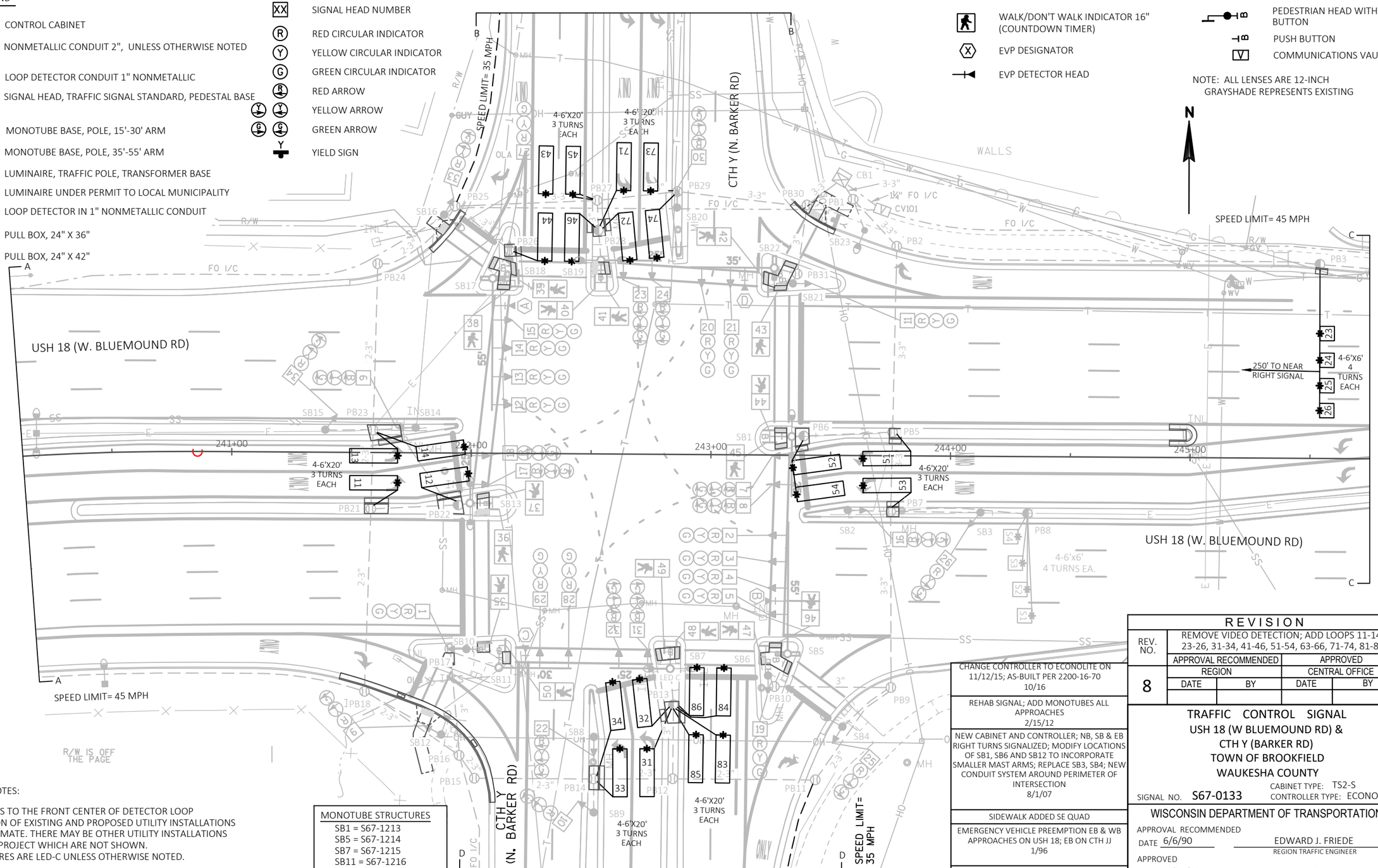
PLOT DATE : 1/12/2023 9:57 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- B PUSH BUTTON
- V COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. * LOCATION IS TO THE FRONT CENTER OF DETECTOR LOOP
2. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

MONOTUBE STRUCTURES

- SB1 = S67-1213
- SB5 = S67-1214
- SB7 = S67-1215
- SB11 = S67-1216
- SB13 = S67-1217
- SB17 = S67-1218
- SB19 = S67-1219
- SB22 = S67-1220

CHANGE CONTROLLER TO ECONOLITE ON 11/12/15; AS-BUILT PER 2200-16-70 10/16

REHAB SIGNAL; ADD MONOTUBES ALL APPROACHES 2/15/12

NEW CABINET AND CONTROLLER; NB, SB & EB RIGHT TURNS SIGNALIZED; MODIFY LOCATIONS OF SB1, SB6 AND SB12 TO INCORPORATE SMALLER MAST ARMS; REPLACE SB3, SB4; NEW CONDUIT SYSTEM AROUND PERIMETER OF INTERSECTION 8/1/07

SIDEWALK ADDED SE QUAD

EMERGENCY VEHICLE PREEMPTION EB & WB APPROACHES ON USH 18; EB ON CTH JJ 1/96

PUSH BUTTONS AND PED HEADS ON ALL APPROACHES 10/17/91

INITIAL INSTALL 8/9/67

SEPARATE THE STOPLINE ZONES FOR 11, 31, 42, 52, 71 AND 82 INTO DETECTION ZONES PER LANE 1/27/17

REVISION

REV. NO.	REMOVE VIDEO DETECTION; ADD LOOPS 11-14, 23-26, 31-34, 41-46, 51-54, 63-66, 71-74, 81-86			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
8	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
CTH Y (BARKER RD)
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0133
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 6/6/90 EDWARD J. FRIEDE
REGION TRAFFIC ENGINEER

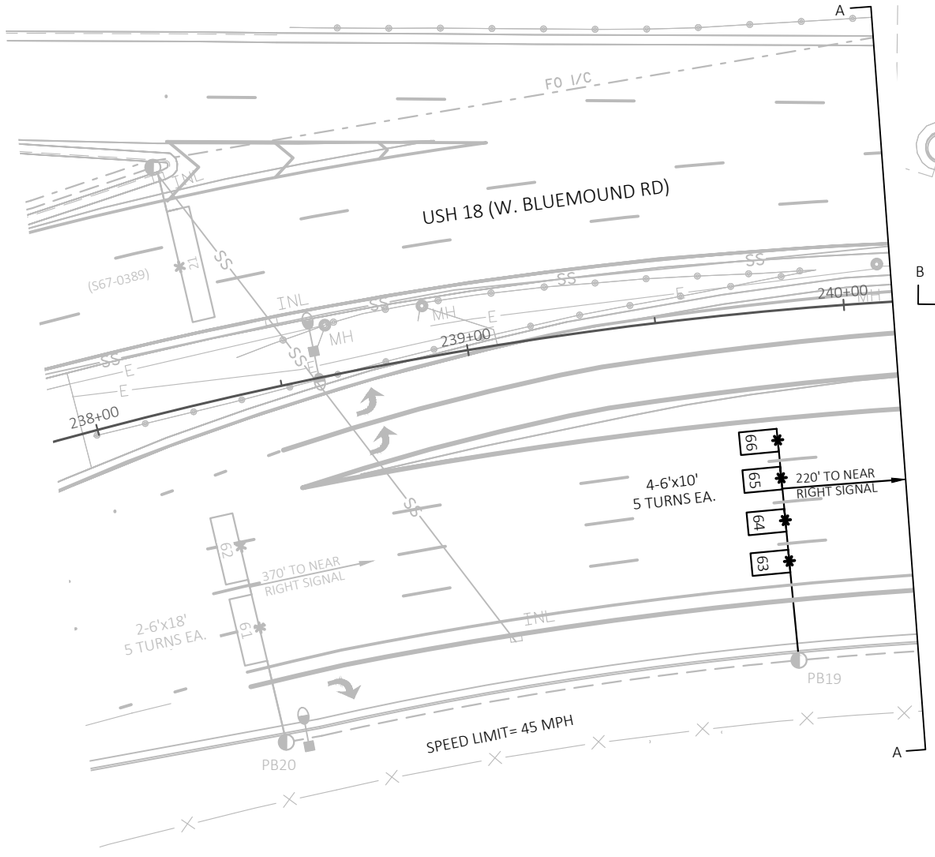
APPROVED
DATE 6/24/91 H.O. PRICE
STATE TRAFFIC ENGINEER

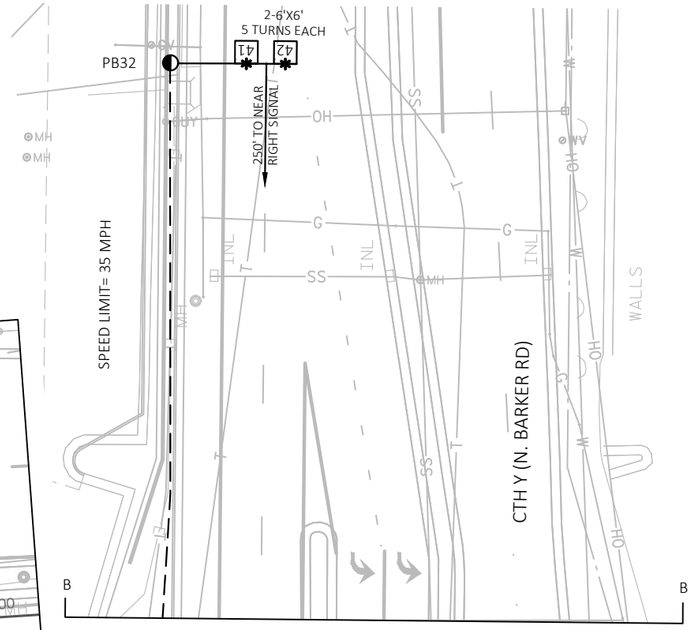
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

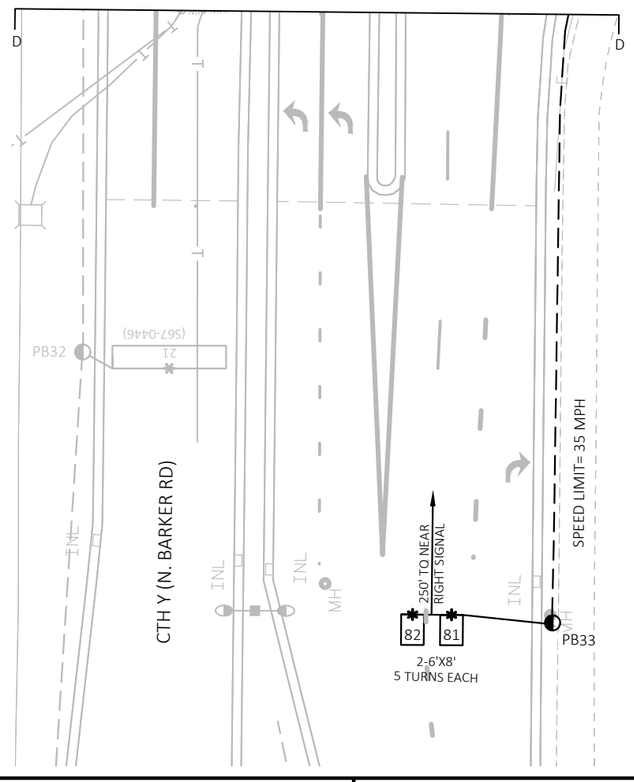
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 214 E

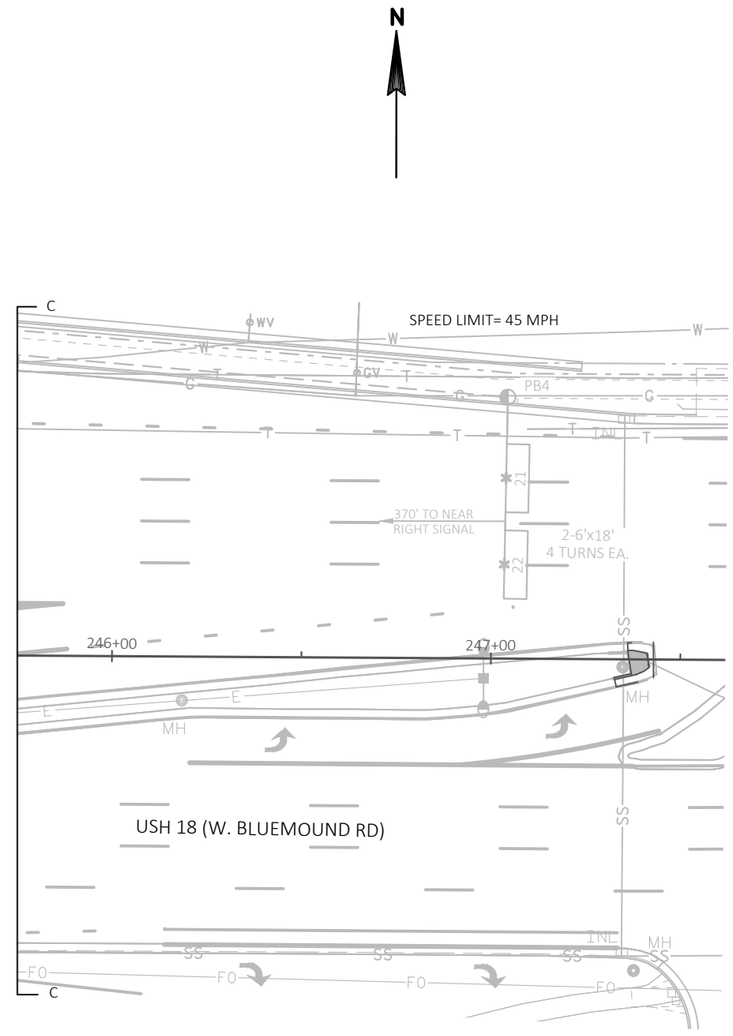
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0133_R8_18.DWG
LAYOUT NAME - S67-0133_R8_pg1
PLOT DATE : 2/1/2023 8:17 AM
PLOT BY : UTIC, ANDY
PLOT NAME :
PLOT SCALE : ##########

2









TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
CTH Y (BARKER RD)
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0133

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

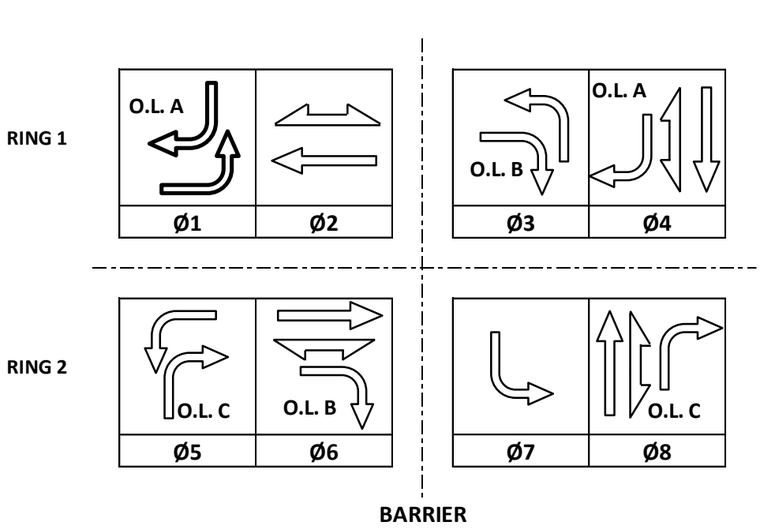
PAGE 2 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 215 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0133_R8_18.DWG
LAYOUT NAME - S67-0133_R8_pg2

PLOT DATE : 1/12/2023 10:29 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	6,7,8	R ←
Ø2	11,12,13,14,15	R
Ø3	22,23,24	R ←
Ø4	27,28,29	R
Ø5	16,17,18	R ←
Ø6	1,2,3,4,5	R
Ø7	30,31,32	R ←
Ø8	19,20,21	R
Ø2P	39,40,41,42	
Ø4P	35,36,37,38	
Ø6P	47,48,49,50	
Ø8P	43,44,45,46	
OLA	33,34	R
OLB	9,10	R
OLC	25,26	R
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	⇉	↓↓	↑↑
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 3+8, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 00-44

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	35	33	39	37	43	41	47	45	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	13	21	23	25	31	33	41	43	45	51	53	61	63	65	71	73	81	83	85	S1	S3			PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	1	2	2	2	3	3	4	4	4	5	5	6	6	6	7	7	8	8	8					CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X					CALL OPTION
DELAY TIME																									DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME								X										X							EXTEND TIME
USE ADDED INITIAL			X	X	X								X	X	X										USE ADDED INITIAL
CROSS SWITCH PHASE																									CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	36	34	40	38	44	42	48	46	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	14	22	24	26	32	34	42	44	46	52	54	62	64	66	72	74	82	84	86	S2	S4			PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	1	2	2	2	3	3	4	4	4	5	5	6	6	6	7	7	8	8	8					CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		X	X					CALL OPTION
DELAY TIME																									DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME								X										X							EXTEND TIME
USE ADDED INITIAL			X	X	X								X	X	X										USE ADDED INITIAL
CROSS SWITCH PHASE																									CROSS SWITCH PHASE

USH 18 (W. BLUEMOUND RD.) & CTH Y (BARKER RD.)
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO: S67-0133 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 02/23 PAGE NO. 3 OF 3

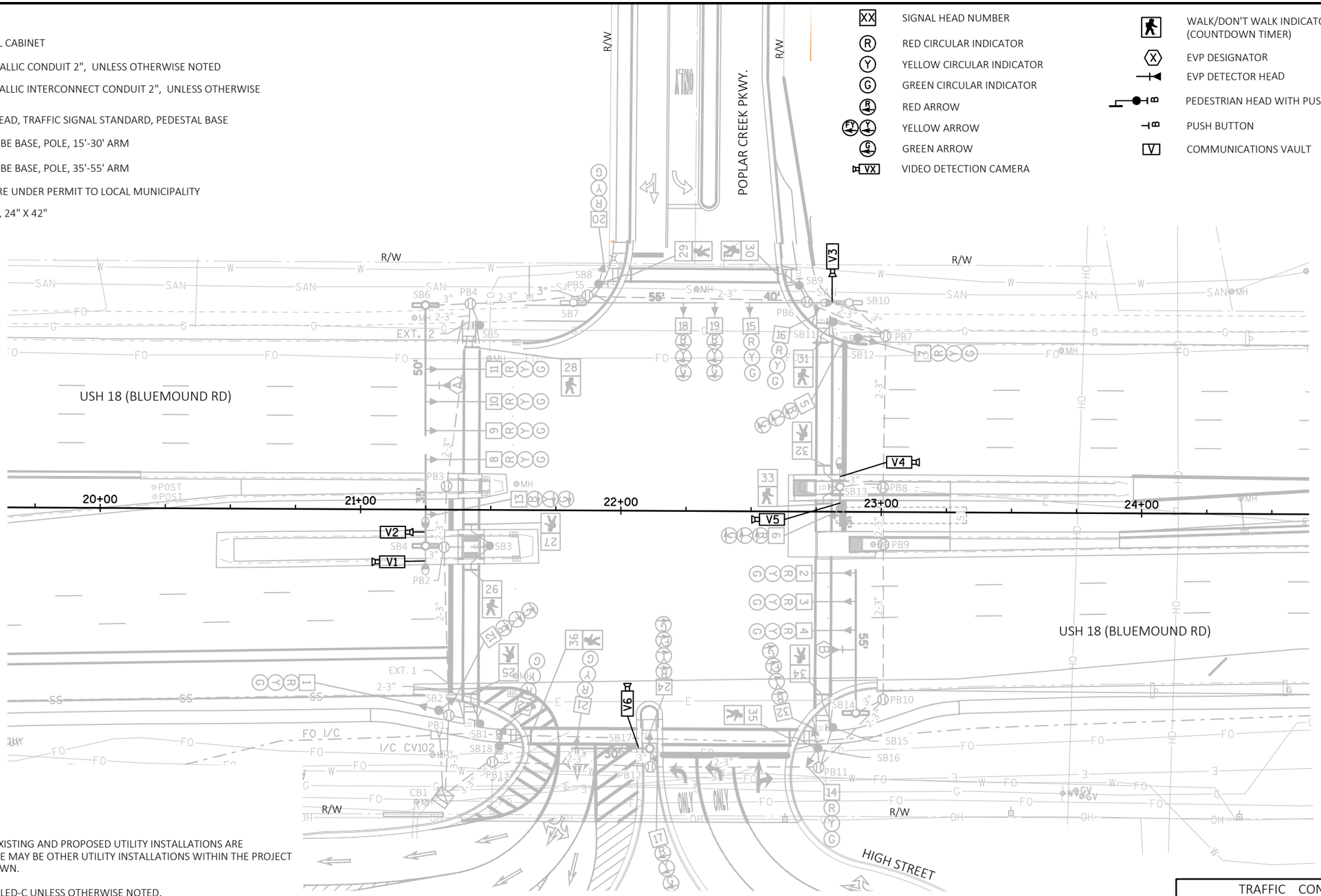
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- PULL BOX, 24" X 42"

- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW
- VX VIDEO DETECTION CAMERA

- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- B PUSH BUTTON
- V COMMUNICATIONS VAULT

N



MONOTUBE STRUCTURE NUMBERS
SB4 = S67-1382
SB6 = S67-1383
SB7 = S67-1384
SB10 = S67-1385
SB13 = S67-1386
SB14 = S67-1387
SB17 = S67-1388
SB18 = S67-1389

CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
3. REMOVE AND SALVAGE AUTOSCOPE CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.

TRAFFIC CONTROL SIGNAL
USH 18 (W. BLUEMOUND RD) &
HIGH ST / POPLAR CREEK PKWY
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-1270

REGION CONTACT: J. MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 217	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-1270_A - REM.DWG
LAYOUT NAME - S67-1270_A_pg1

PLOT DATE : 1/12/2023 9:56 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

LEGEND

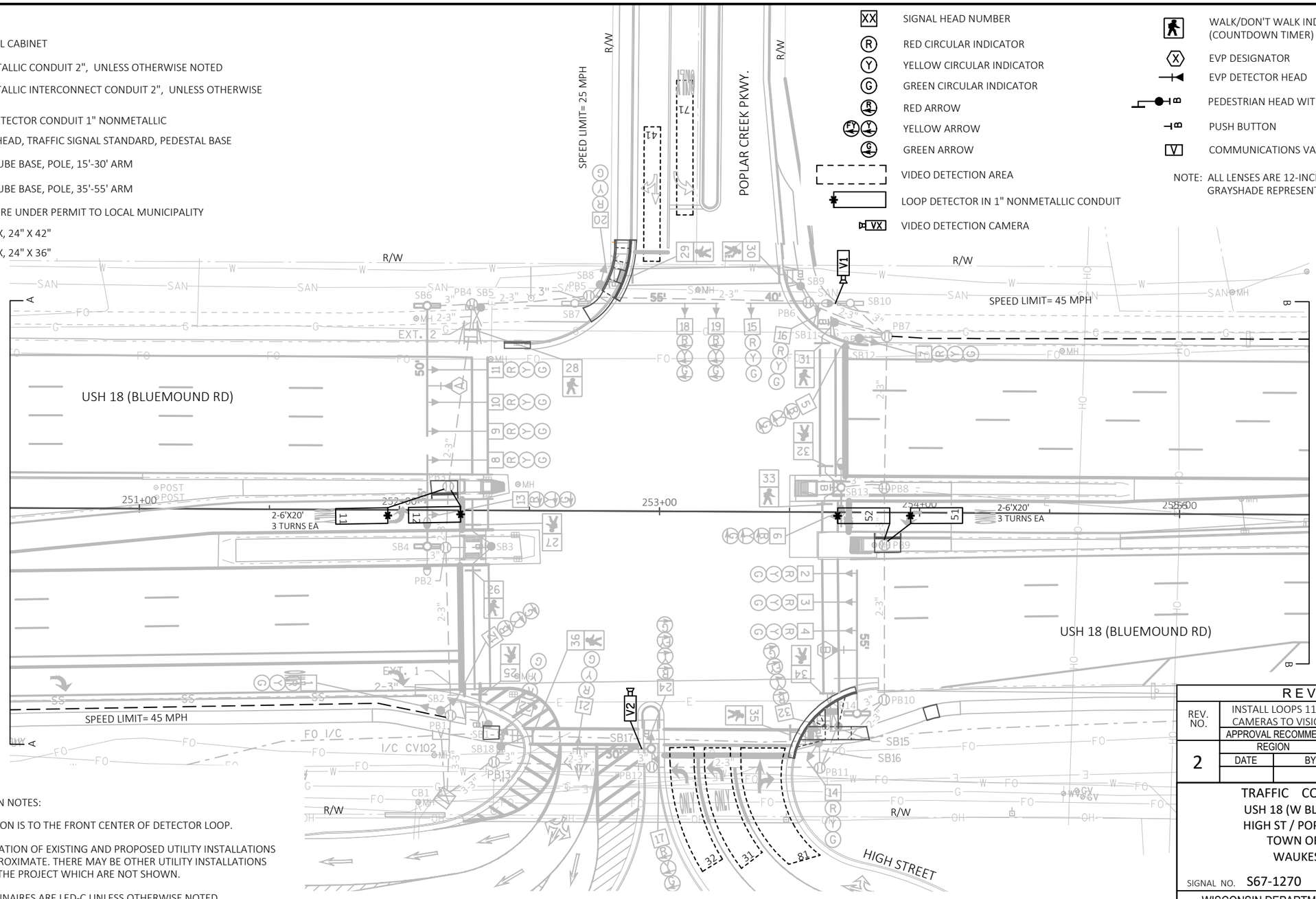
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"

- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW
- VIDEO DETECTION AREA
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VX VIDEO DETECTION CAMERA

- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- B PUSH BUTTON
- V COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

N



MONOTUBE STRUCTURE NUMBERS
SB4 = S67-1382
SB6 = S67-1383
SB7 = S67-1384
SB10 = S67-1385
SB13 = S67-1386
SB14 = S67-1387
SB17 = S67-1388
SB18 = S67-1389

CONSTRUCTION NOTES:

1. * LOCATION IS TO THE FRONT CENTER OF DETECTOR LOOP.
2. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

SB18 CHANGED TO TYPE 1 BASE AND 13',SB17 TYPE 10 POLE, REVERSED MOUNTED 30' ARM; UPDATE INTERSECTION & STREET NAME 4/24/17

RECONSTRUCT SIGNAL 7/2016

REVISION

REV. NO.	INSTALL LOOPS 11-12, 21-26, 51-52, 61-66; UPDATE CAMERAS TO VISION			
	APPROVAL RECOMMENDED		APPROVED	
2	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
HIGH ST / POPLAR CREEK PKWY
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-1270
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

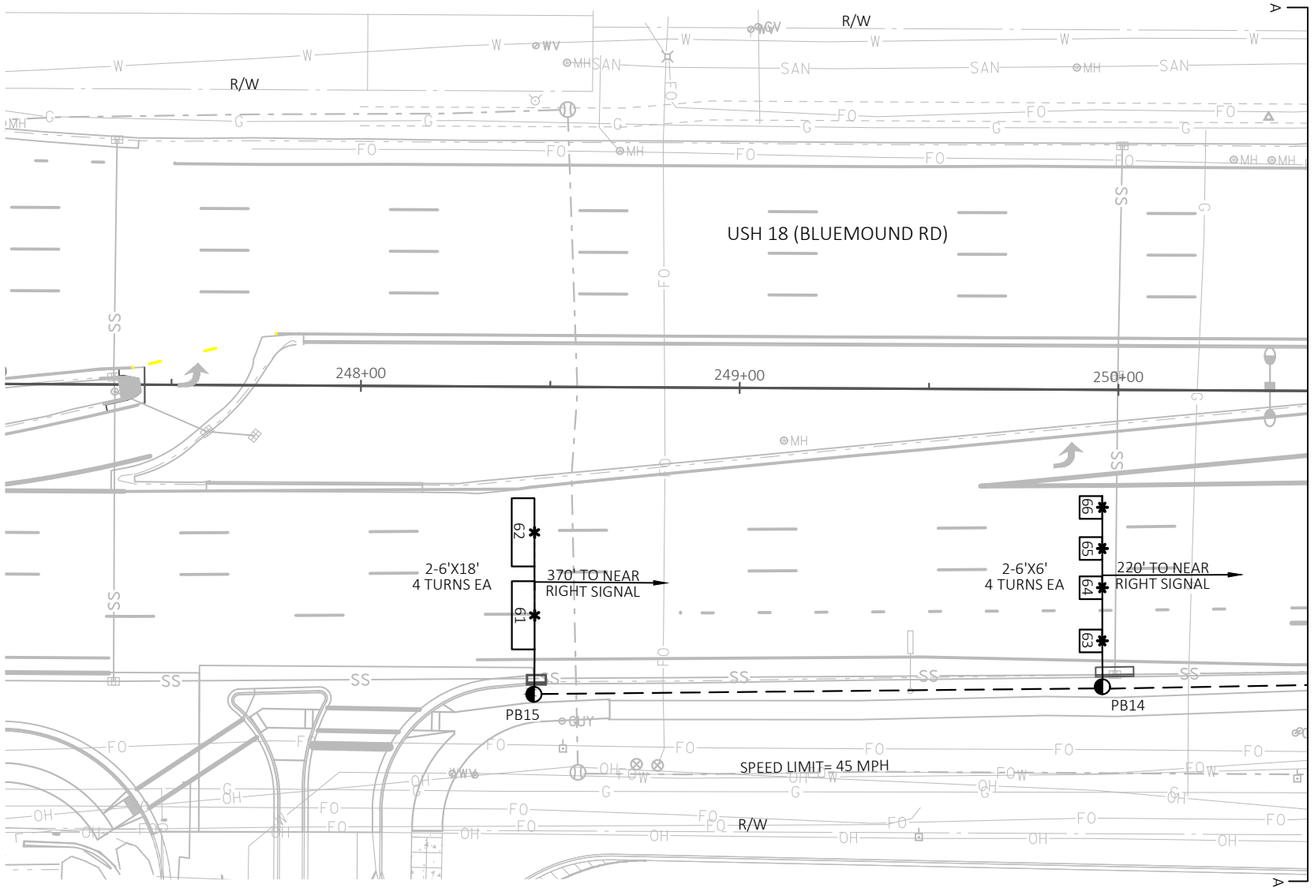
APPROVAL RECOMMENDED
DATE 7-25-16 — DAVID A BRANTNER, P.E. REGION TRAFFIC ENGINEER

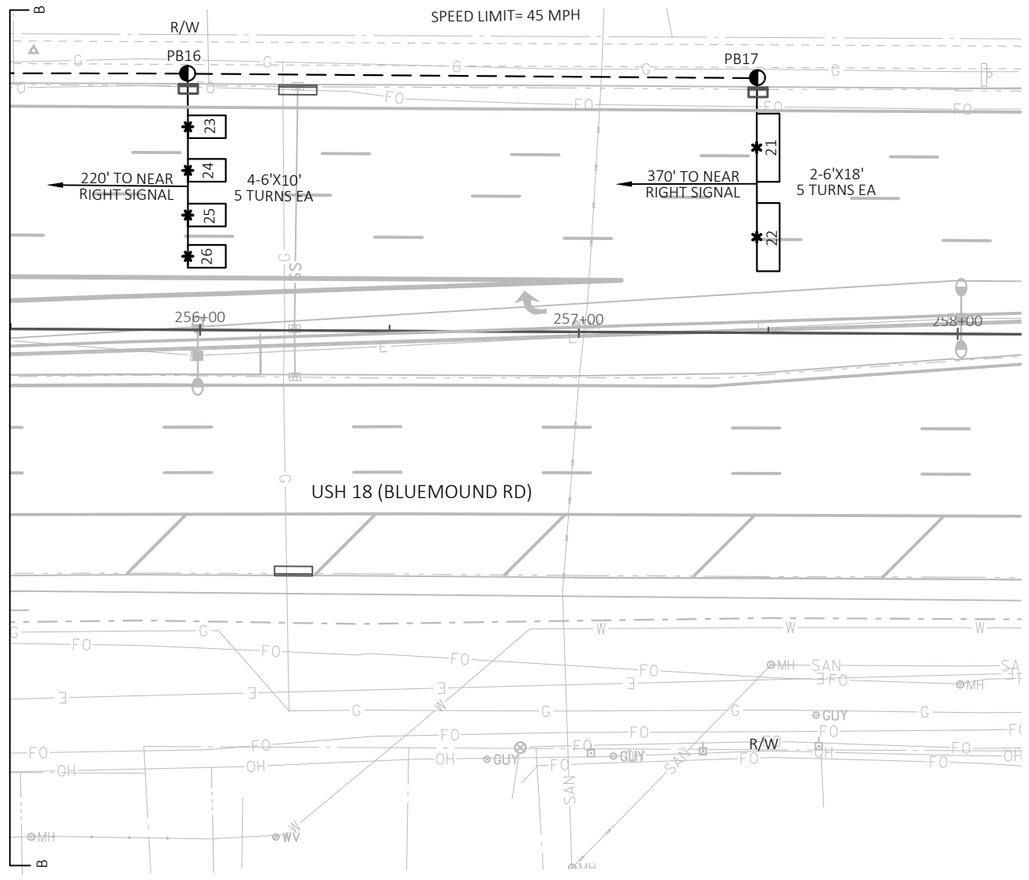
APPROVED
DATE 7-29-16 — JOANNA L. BUSH STATE TRAFFIC ENGINEER

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 218 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-1270_R2_18.DWG
LAYOUT NAME - S67-1270_A_pg1
PLOT DATE : 2/1/2023 8:52 AM
PLOT BY : UTIC, ANDY
PLOT NAME :
PLOT SCALE : ##########





TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
HIGH ST / POPLAR CREEK PKWY
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-1270

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

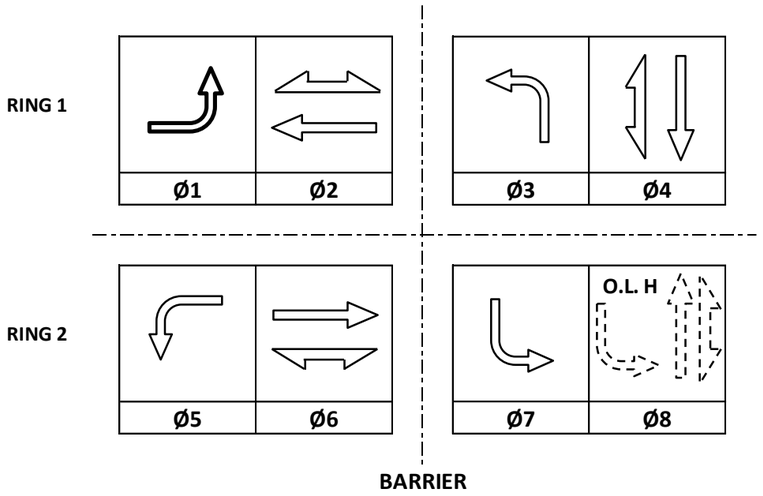
PAGE 2 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 219	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-1270_R2_18.DWG
LAYOUT NAME - S67-1270_A_pg2

PLOT DATE : 2/1/2023 10:28 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	5,6	R ←
Ø2	7,8,9,10,11	R
Ø3	17,18,19	R ←
Ø4	20,21,22	R
Ø5	12,13	R ←
Ø6	1,2,3,4	R
Ø7	23,24	R ←
Ø8	14,15,16	R
Ø2P	29,30	
Ø4P	25,26,27,28	
Ø6P	35,36	
Ø8P	31,32,33,34	
OLE		
OLF		
OLG		
OLH	23,24	-





CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6	---	X
2	X	6	MIN	X
3		8	---	X
4		8	---	X
5		2	---	X
6	X	2	MIN	X
7		4	---	X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B
MOVEMENT	← ⌐	⌙ →
PHASE	2+5	6+1

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	X
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	11	21	23	25	51	61	63	65	31	41	71	81				
CALLED PHASE	1	2	2	2	5	6	6	6	3	4	7	8				
CALL OPTION	X	X	X	X	X	X	X	X	X	X	X	X				
DELAY TIME										X		X				
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X				
EXTEND TIME																
USE ADDED INITIAL		X	X	X		X	X	X								
CROSS SWITCH PHASE											8					

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	12	22	24	26	52	62	64	66	32							
CALLED PHASE	1	2	2	2	5	6	6	6	3							
CALL OPTION	X	X	X	X	X	X	X	X	X							
DELAY TIME																
EXTENTION OPTION	X	X	X	X	X	X	X	X	X							
EXTEND TIME																
USE ADDED INITIAL		X	X	X		X	X	X								
CROSS SWITCH PHASE																

USH 18 & HIGH ST/POPLAR CREEK PKWY
TOWN OF BROOKFIELD
WAUKESHA COUNTY
SIGNAL NO: S67-1270 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 02/23 PAGE NO. 3 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SEQUENCE OF OPERATIONS	SHEET NO: 220	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 48"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- YIELD SIGN
- VX VIDEO DETECTION CAMERA
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON

N

N. JANACEK RD

USH 18 (BLUEMOUND RD)

CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
3. REMOVE AND SALVAGE AUTOSCOPE CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.
4. CONCRETE BASE SB3 TO REMAIN. REMOVE POLE AND HEADS ONLY.
5. CONCRETE BASE SB13 TO REMAIN. REMOVE POLE AND HEADS ONLY.

TRAFFIC CONTROL SIGNAL
USH 18 (W. BLUEMOUND RD) &
N. JANACEK RD
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0393

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

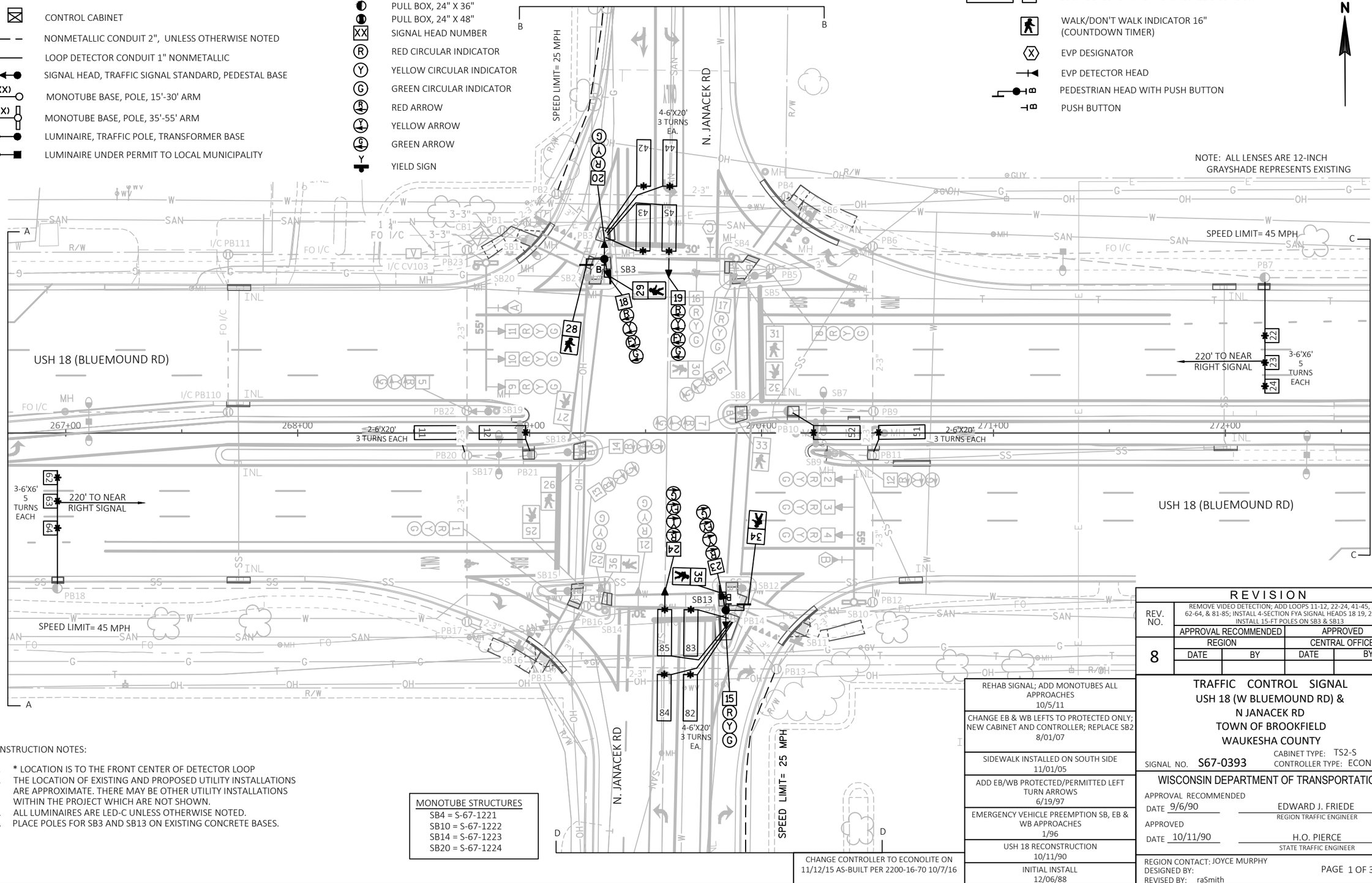
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 221 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0393_R7-REM.DWG
LAYOUT NAME - S67-0393_R7_pg1

PLOT DATE : 1/12/2023 9:56 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 48"
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- YIELD SIGN
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON



CONSTRUCTION NOTES:

1. * LOCATION IS TO THE FRONT CENTER OF DETECTOR LOOP
2. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
4. PLACE POLES FOR SB3 AND SB13 ON EXISTING CONCRETE BASES.

MONOTUBE STRUCTURES
SB4 = S-67-1221
SB10 = S-67-1222
SB14 = S-67-1223
SB20 = S-67-1224

REVISION				
REV. NO.	REMOVE VIDEO DETECTION; ADD LOOPS 11-12, 22-24, 41-45, 51-52, 62-64, & 81-85; INSTALL 4-SECTION FYA SIGNAL HEADS 18 19, 23, & 24; INSTALL 15-FT POLES ON SB3 & SB13			
	APPROVAL RECOMMENDED		APPROVED	
8	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

REHAB SIGNAL; ADD MONOTUBES ALL APPROACHES 10/5/11

CHANGE EB & WB LEFTS TO PROTECTED ONLY; NEW CABINET AND CONTROLLER; REPLACE SB2 8/01/07

SIDEWALK INSTALLED ON SOUTH SIDE 11/01/05

ADD EB/WB PROTECTED/PERMITTED LEFT TURN ARROWS 6/19/97

EMERGENCY VEHICLE PREEMPTION SB, EB & WB APPROACHES 1/96

USH 18 RECONSTRUCTION 10/11/90

INITIAL INSTALL 12/06/88

CHANGE CONTROLLER TO ECONOLITE ON 11/12/15 AS-BUILT PER 2200-16-70 10/7/16

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) & N JANACEK RD
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0393
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 9/6/90 — EDWARD J. FRIEDE, REGION TRAFFIC ENGINEER

APPROVED
DATE 10/11/90 — H.O. PIERCE, STATE TRAFFIC ENGINEER

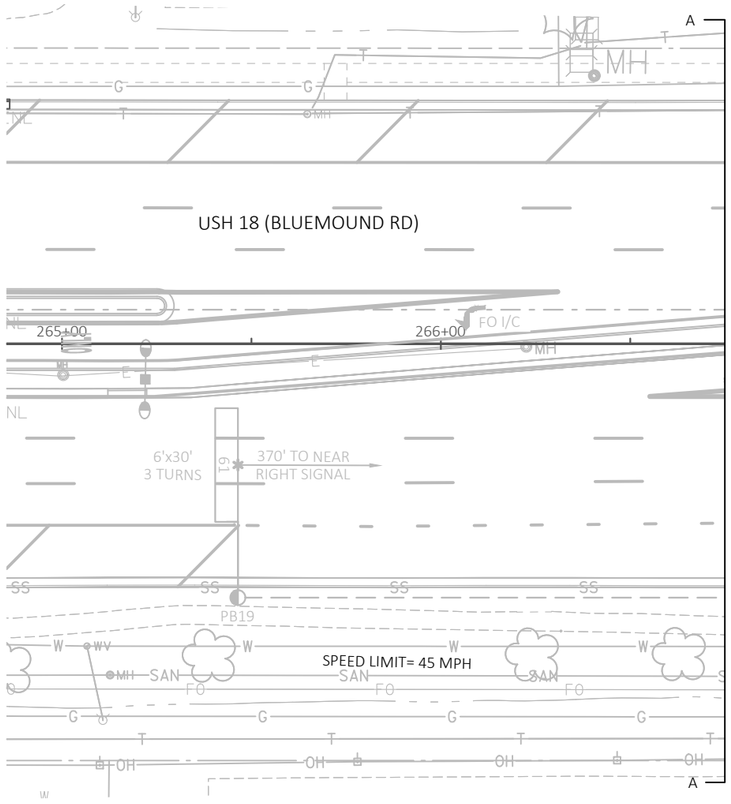
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

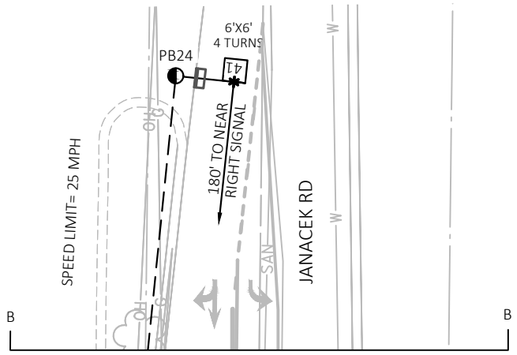
PAGE 1 OF 3

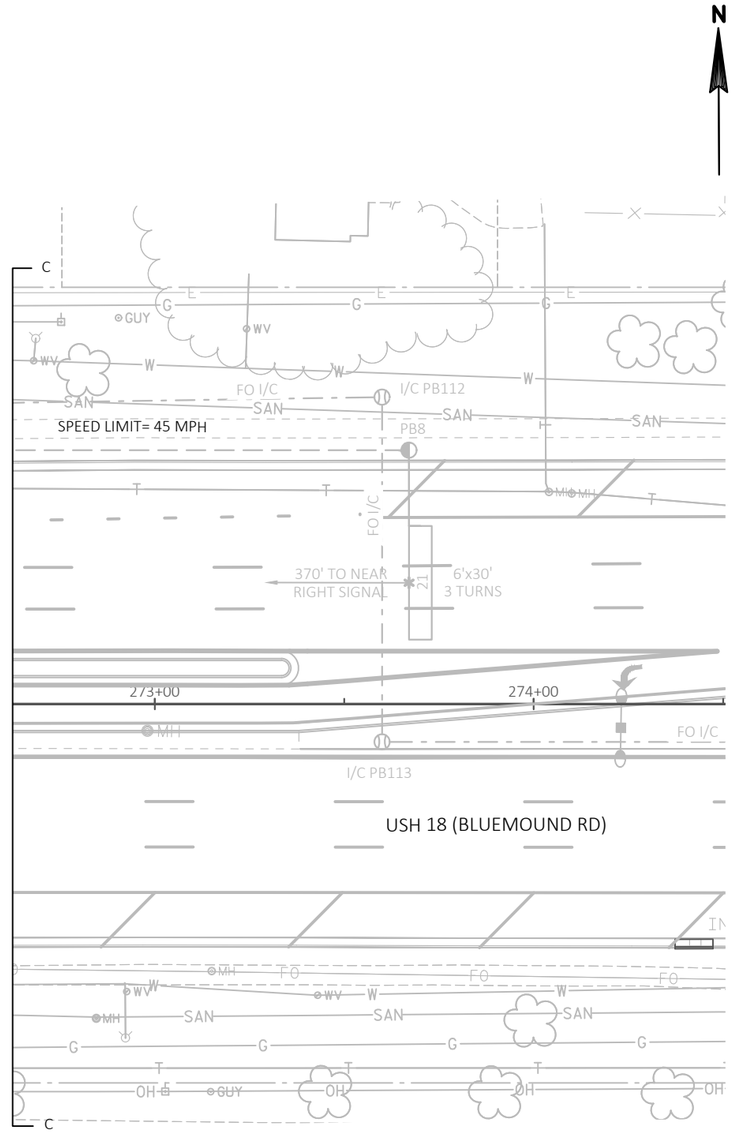
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 222	E

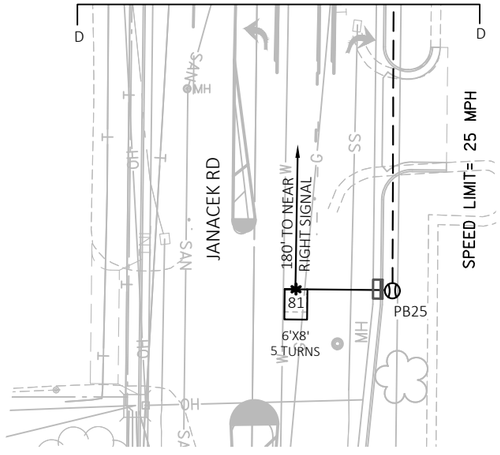
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0393_R8_18.DWG
LAYOUT NAME - S67-0393_R7_pg1
PLOT DATE : 2/1/2023 8:40 AM
PLOT BY : UTIC, ANDY
PLOT NAME :
PLOT SCALE : ##########

WISDOT/CADDS SHEET 42









TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
N JANACEK RD
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0393

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

PAGE 2 OF 3

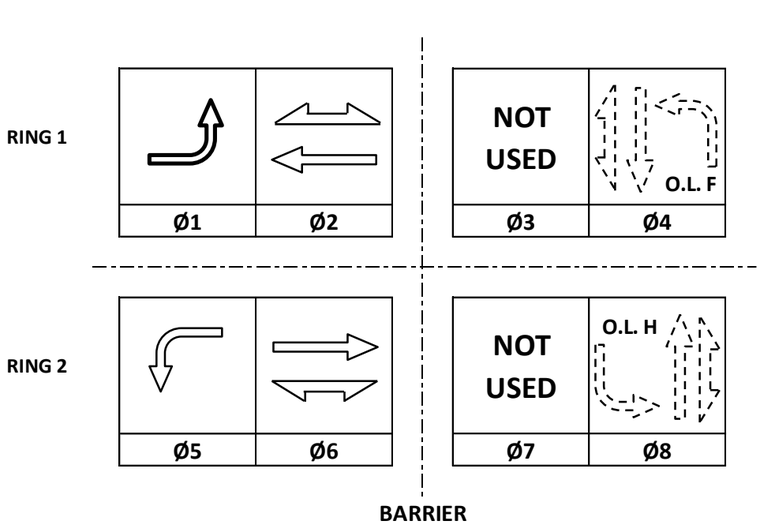
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 223 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0393_R8_18.DWG
LAYOUT NAME - S67-0393_R7_pg2

PLOT DATE : 2/1/2023 10:26 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10,11	R
Ø3		
Ø4	20,21,22	R
Ø5	12,13,14	R ←
Ø6	1,2,3,4	R
Ø7		
Ø8	15,16,17	R
Ø2P	29,30	
Ø4P	25,26,27,28	
Ø6P	35,36	
Ø8P	31,32,33,34	
OLE		
OLF	18,19	R ←
OLG		
OLH	23,24	R ←



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4		8		X
5		2		X
6	X	2	MIN	X
7				
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C
MOVEMENT	←	→	↑
PHASE	2+5	6+1	4+8

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 00-44

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	21	23	41	43	45	51	61	63	81	83	85					PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	4	4	4	5	6	6	8	8	8					CALLED PHASE
CALL OPTION	X	X	X		X	X	X	X	X		X	X					CALL OPTION
DELAY TIME						X						X					DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME				X						X							EXTEND TIME
USE ADDED INITIAL		X	X					X	X								USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	22	24	42	44		52	62	64	82	84						PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	4	4		5	6	6	8	8						CALLED PHASE
CALL OPTION	X	X	X	X	X		X	X	X	X	X						CALL OPTION
DELAY TIME					X						X						DELAY TIME
EXTENTION OPTION	X	X	X	X	X		X	X	X	X	X						EXTENTION OPTION
EXTEND TIME																	EXTEND TIME
USE ADDED INITIAL		X	X					X	X								USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

USH 18 (W. BLUEMOUND RD.) & N. JANACEK RD.
TOWN OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO: S67-0393	CABINET TYPE: TS2-S
	CONTROLLER TYPE: ECONOLITE
DATE: 02/23	PAGE NO. 3 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SEQUENCE OF OPERATIONS	SHEET NO: 224	E

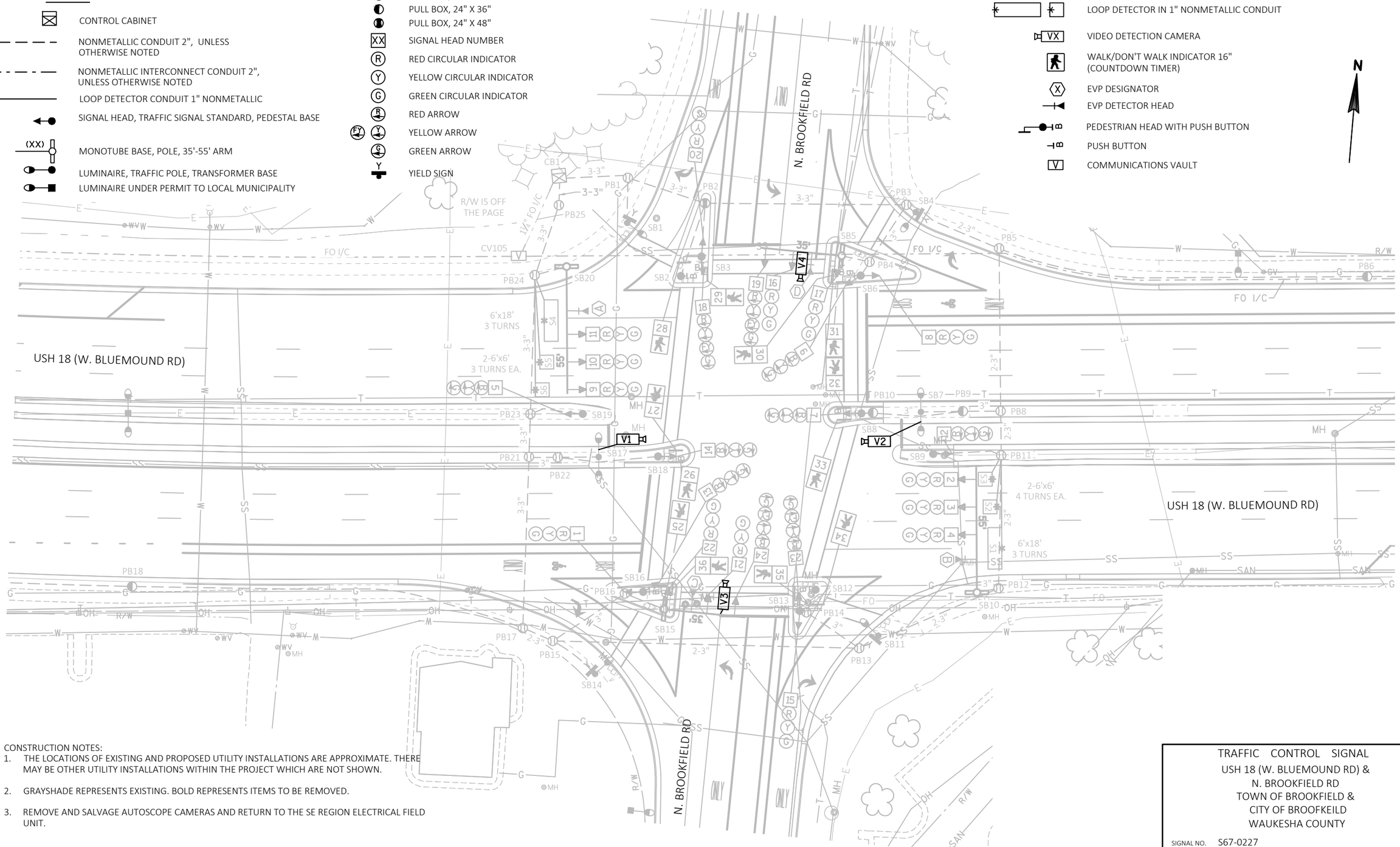
FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 48"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW
- YIELD SIGN
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VX VIDEO DETECTION CAMERA
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- B PUSH BUTTON
- V COMMUNICATIONS VAULT

N



CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
3. REMOVE AND SALVAGE AUTOSCOPE CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.

TRAFFIC CONTROL SIGNAL
USH 18 (W. BLUEMOUND RD) &
N. BROOKFIELD RD
TOWN OF BROOKFIELD &
CITY OF BROOFKEILD
WAUKESHA COUNTY

SIGNAL NO. S67-0227

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 225 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0227_R6-REM.DWG
LAYOUT NAME - S67-0227_R6_pg1

PLOT DATE : 1/12/2023 9:55 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

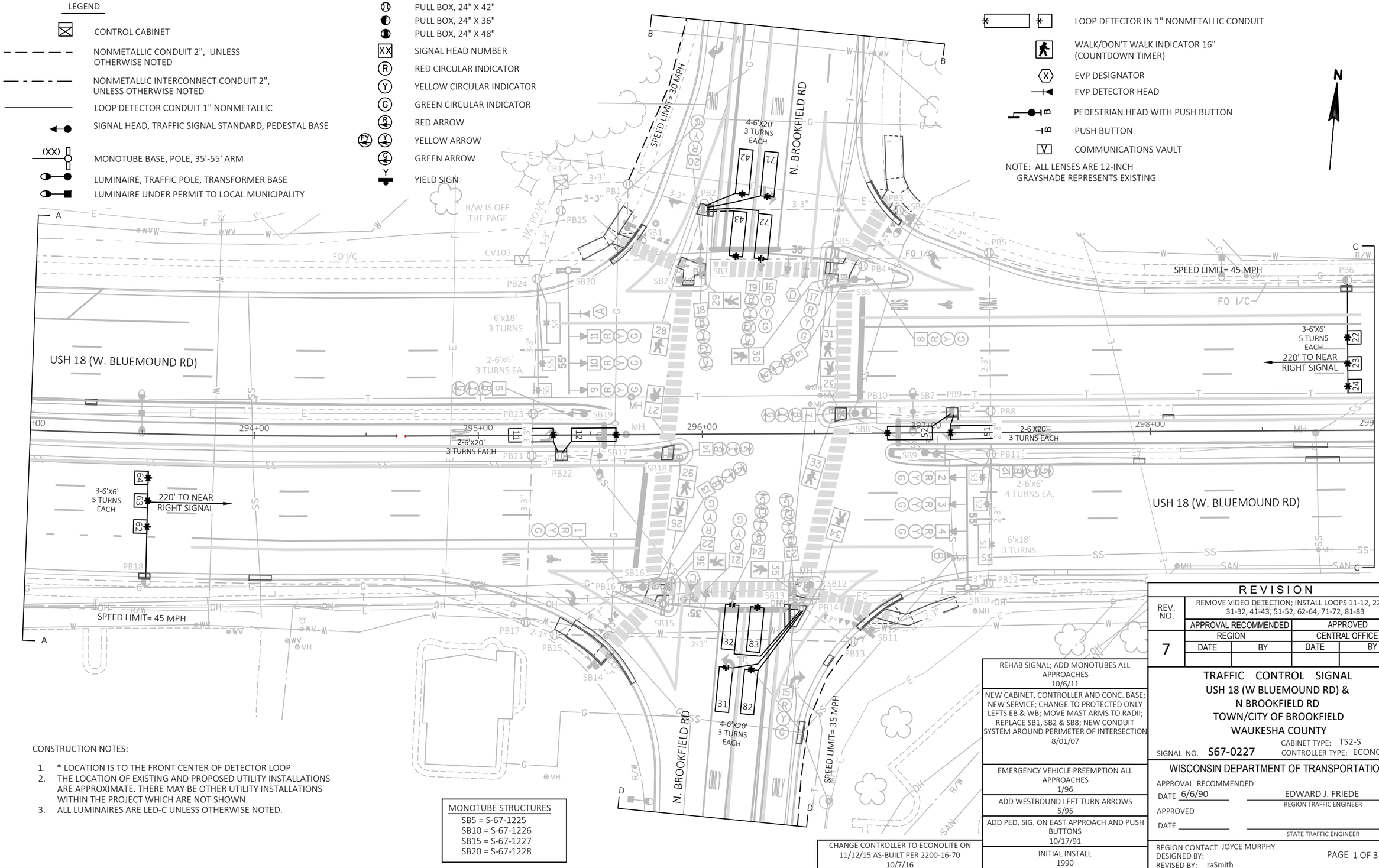
2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 48"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- B PUSH BUTTON
- V COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N



CONSTRUCTION NOTES:

1. * LOCATION IS TO THE FRONT CENTER OF DETECTOR LOOP
2. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

MONOTUBE STRUCTURES
SB5 = S-67-1225
SB10 = S-67-1226
SB15 = S-67-1227
SB20 = S-67-1228

CHANGE CONTROLLER TO ECONOLITE ON 11/12/15 AS-BUILT PER 2200-16-70 10/7/16

INITIAL INSTALL 1990

ADD PED. SIG. ON EAST APPROACH AND PUSH BUTTONS 10/17/91

ADD WESTBOUND LEFT TURN ARROWS 5/95

EMERGENCY VEHICLE PREEMPTION ALL APPROACHES 1/96

NEW CABINET, CONTROLLER AND CONC. BASE; NEW SERVICE; CHANGE TO PROTECTED ONLY LEFTS EB & WB; MOVE MAST ARMS TO RADII; REPLACE SB1, SB2 & SB8; NEW CONDUIT SYSTEM AROUND PERIMETER OF INTERSECTION 8/01/07

REHAB SIGNAL; ADD MONOTUBES ALL APPROACHES 10/6/11

REVISION

REV. NO.	REMOVE VIDEO DETECTION; INSTALL LOOPS 11-12, 22-24, 31-32, 41-43, 51-52, 62-64, 71-72, 81-83			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
7	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
N BROOKFIELD RD
TOWN/CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0227
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

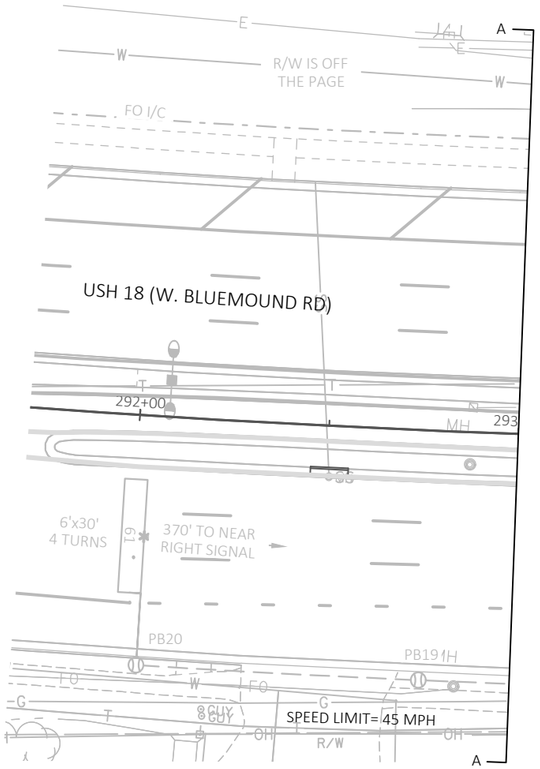
APPROVAL RECOMMENDED
DATE 6/6/90 EDWARD J. FRIEDE
REGION TRAFFIC ENGINEER

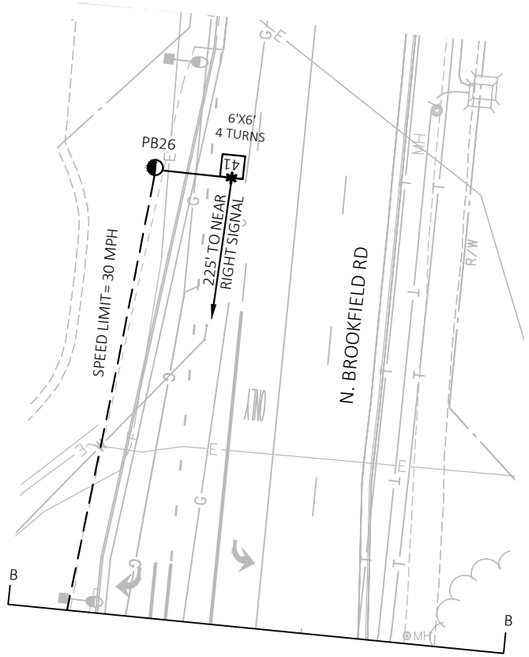
APPROVED
DATE _____
STATE TRAFFIC ENGINEER

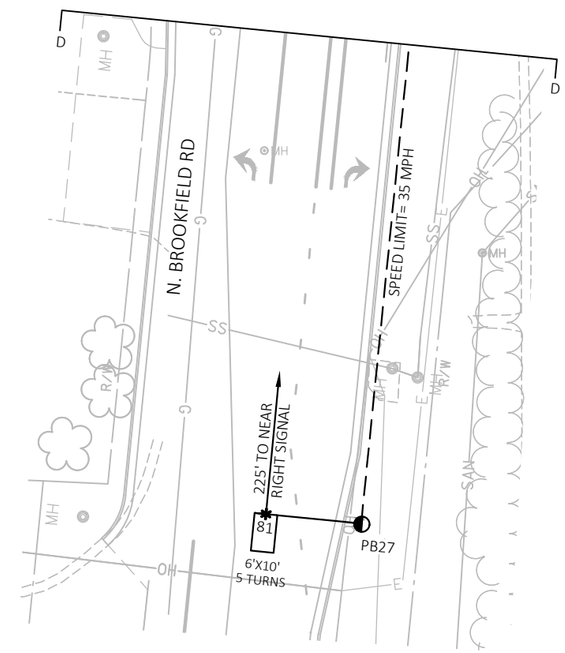
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

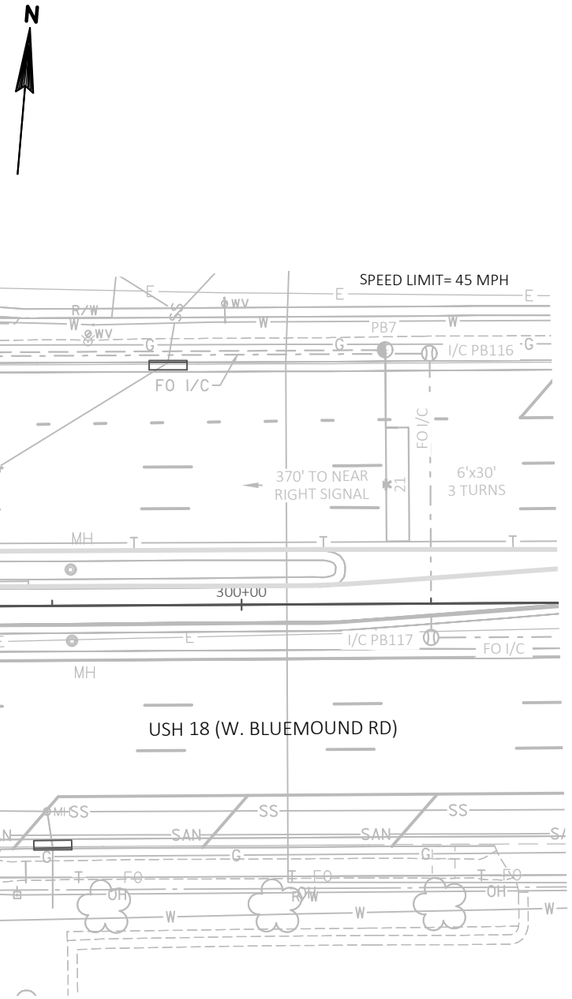
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 226 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0227_R7_18.DWG
LAYOUT NAME - S67-0227_R6_pg1
PLOT DATE : 2/1/2023 9:33 AM
PLOT BY : UTIC, ANDY
PLOT NAME :
PLOT SCALE : ##########









TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
N BROOKFIELD RD
TOWN/CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0227

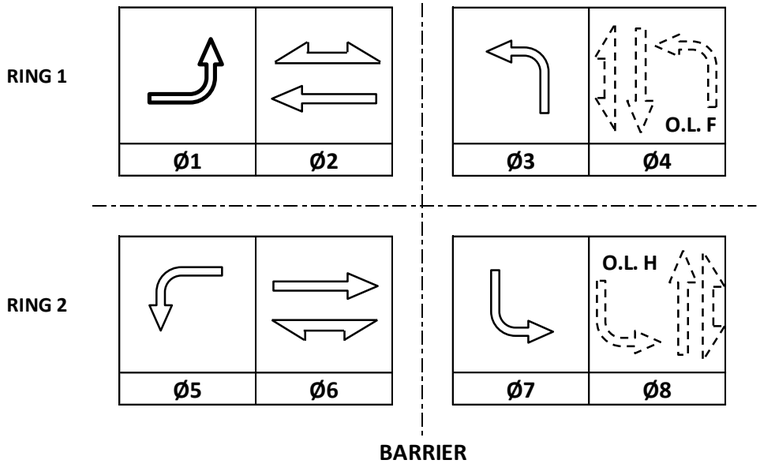
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 227 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0227_R7_18.DWG
LAYOUT NAME - S67-0227_R6_pg2

PLOT DATE : 1/13/2023 1:48 PM PLOT BY : UTIC, ANDY PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10,11	R
Ø3	18,19	-
Ø4	20,21,22	R
Ø5	12,13,14	R ←
Ø6	1,2,3,4	R
Ø7	23,24	-
Ø8	15,16,17	R
Ø2P	29,30	
Ø4P	25,26,27,28	
Ø6P	35,36	
Ø8P	31,32,33,34	
OLE		
OLF	18,19	R ←
OLG		
OLH	23,24	R ←





CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓↓	↑↑
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 3+8, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 00-44

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	21	23	31	41	43	51	61	63	71	81	83	S1	S3	S5		PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	3	4	4	5	6	6	7	8	8					CALLED PHASE
CALL OPTION	X	X	X	X		X	X	X	X	X		X					CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X					EXTENTION OPTION
EXTEND TIME					X						X						EXTEND TIME
USE ADDED INITIAL		X	X					X	X								USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	22	24	32	42		52	62	64	72	82		S2	S4	S6		PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	3	4		5	6	6	7	8						CALLED PHASE
CALL OPTION	X	X	X	X	X		X	X	X	X	X						CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION	X	X	X	X	X		X	X	X	X	X						EXTENTION OPTION
EXTEND TIME																	EXTEND TIME
USE ADDED INITIAL		X	X					X	X								USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

USH 18 (W. BLUEMOUND RD.) & N. BROOKFIELD RD.
TOWN/CITY OF BROOKFIELD
WAUKESHA COUNTY
SIGNAL NO: S67-0227 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 02/23 PAGE NO. 3 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SEQUENCE OF OPERATIONS	SHEET NO: 228	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- VX VIDEO DETECTION CAMERA

- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW

- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- B PUSH BUTTON
- V COMMUNICATIONS VAULT
- Y YIELD SIGN
- S STOP SIGN

N

USH 18 (W. BLUEMOUND RD)

WOELFEL RD

N. CORPORATE DR

USH 18 (W. BLUEMOUND RD)

CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
3. REMOVE AND SALVAGE AUTOSCOPE CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.
4. CONCRETE BASE SB8 AND SB20 TO REMAIN. REMOVE POLE AND HEADS ONLY.

TRAFFIC CONTROL SIGNAL
USH 18 (W. BLUEMOUND RD) &
N. CORPORATE DR / WOELFEL RD
TOWN/CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0441

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 229 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0441_R6-REM.DWG
LAYOUT NAME - S67-0441_R6_pg1

PLOT DATE : 1/12/2023 9:55 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY

- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW

- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- V COMMUNICATIONS VAULT
- Y YIELD SIGN
- S STOP SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

USH 18 (W. BLUEMOUND RD)

SPEED LIMIT= 25 MPH

WOELFEL RD

ONLY

2-6'X20' 3 TURNS EA.

2-6'X20' 3 TURNS EA.

SB20

SPEED LIMIT= 45 MPH

220' TO NEAR RIGHT SIGNAL

3-6'X6' 4 TURNS EACH

2-6'X20' 3 TURNS EACH

3-6'X8' 5 TURNS EACH

220' TO NEAR RIGHT SIGNAL

SB8

4-6'X20' 3 TURNS EA.

2-6'X20' 3 TURNS EA.

SPEED LIMIT= 25 MPH

N. CORPORATE DR

CONSTRUCTION NOTES:

1. * LOCATION IS TO THE FRONT CENTER OF DETECTOR LOOP
2. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
4. PLACE POLES FOR SB8 AND SB20 ON EXISTING CONCRETE BASES.

MONOTUBE STRUCTURES
SB1 = S-67-1029
SB6 = S-67-1230
SB10 = S-67-1231
SB15 = S-67-1232

CHANGE CONTROLLER TO ECONOLITE ON 11/12/15 AS-BUILT PER 2200-16-70 10/7/16

REHAB SIGNAL; ADD MONOTUBES ALL APPROACHES 10/6/11

NEW CABINET & CONTROLLER; RELOCATE WEST ARMS TO RADII; MOVE HEAD 19 TO MEDIAN; REPLACE ALL CONCRETE SIGNAL BASES; CHANGE THE EB AND WB LEFT TO PROTECTED ONLY 8/1/07

EMERGENCY VEHICLE PREEMPTION EB & WB APPROACHES 1/96

LEFT TURN PHASE ADDED WEST APPROACH 12/3/93

PED. SIG. & PUSH BUTTONS ADDED EAST APPROACH 1/10/92

REVISION

REV. NO.	REMOVE VIDEO DETECTION; ADD LOOPS 11-12, 22-24, 31-34, 41-43, 51-52, 62-64, 71-72, 81-83; INSTALL PB27 & PB28; ADD FYA SIGNAL HEADS 24-26; INSTALL 15-FT POLE ON SB8 & SB20			
	APPROVAL RECOMMENDED		APPROVED	
7	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
N CORPORATE DR / WOELFEL RD
TOWN/CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0441
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 9/6/90 — EDWARD J. FRIEDE, REGION TRAFFIC ENGINEER

APPROVED
DATE 10/11/90 — H.O. PRICE, STATE TRAFFIC ENGINEER

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

PAGE 1 OF 3

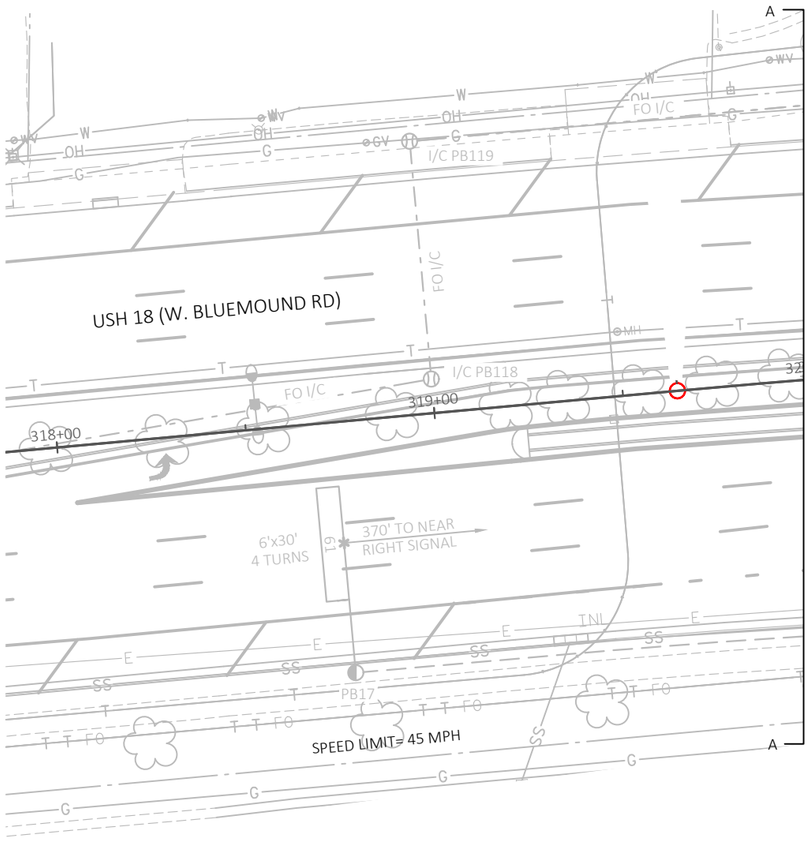
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 230 E

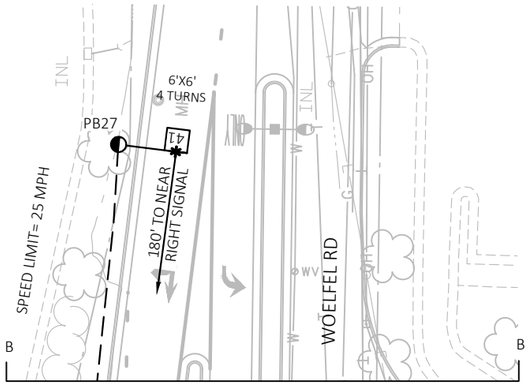
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0441_R7_18.DWG
LAYOUT NAME - S67-0441_R6_pg1

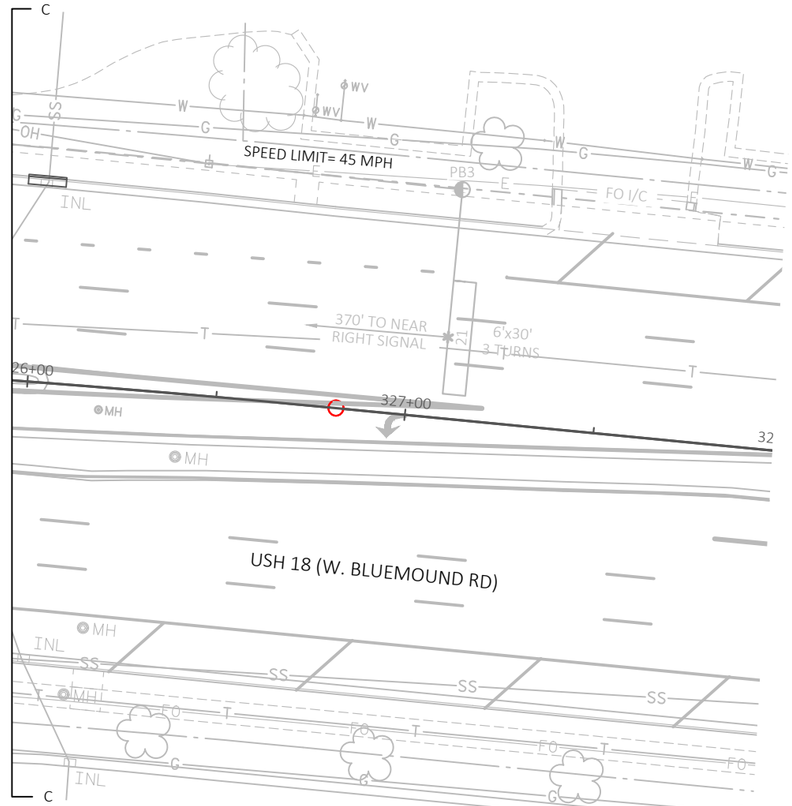
PLOT DATE : 2/1/2023 9:40 AM PLOT BY : UTIC, ANDY PLOT NAME : PLOT SCALE : ##########

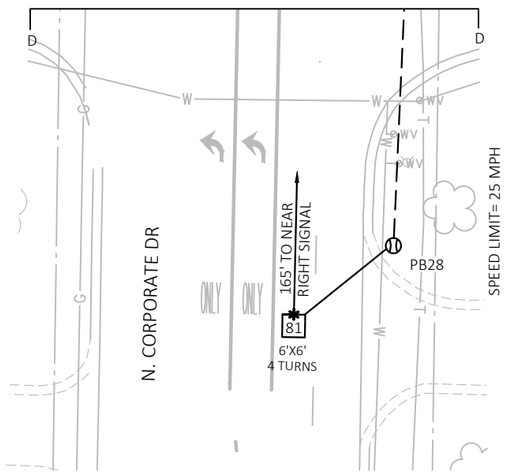
WISDOT/CADDS SHEET 42

2









TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
N CORPORATE DR/WOELFEL RD
TOWN/CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0441

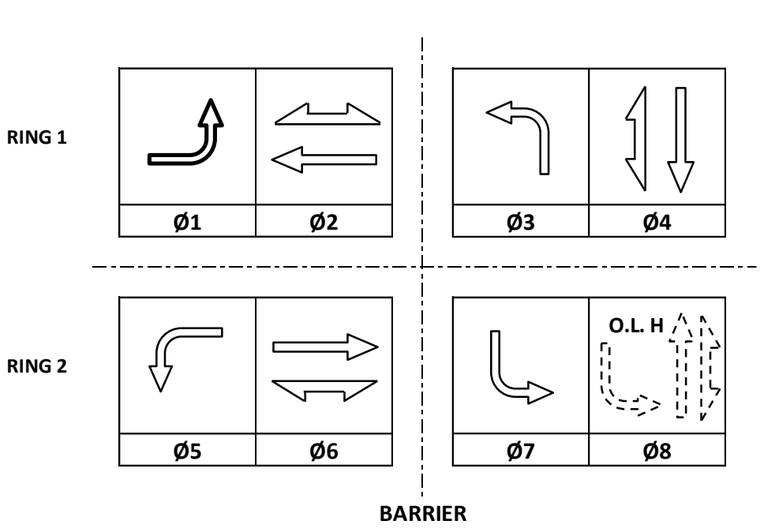
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 231 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0441_R7_18.DWG
LAYOUT NAME - S67-0441_R6_pg2

PLOT DATE : 1/12/2023 10:21 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10,11	R
Ø3	18,19,20	R ←
Ø4	21,22,23	R
Ø5	12,13,14	R ←
Ø6	1,2,3,4	R
Ø7	24,25,26	R ←
Ø8	15,16,17	R
Ø2P	31,32	
Ø4P	27,28,29,30	
Ø6P	37,38	
Ø8P	33,34,35,36	
OLE		
OLF		
OLG		
OLH	24,25,26	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B
MOVEMENT	←	→
PHASE	2+5	6+1

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS- 00-44	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	11	21	23	31	33	41	43	51	61	63	71	81	83			
CALLED PHASE	1	2	2	3	3	4	4	5	2	6	7	8	8			
CALL OPTION	X	X	X	X	X		X	X	X	X	X		X			
DELAY TIME																
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X			
EXTEND TIME						X						X				
USE ADDED INITIAL		X	X						X	X						
CROSS SWITCH PHASE																

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	12	22	24	32	34	42		52	62	64	72	82				
CALLED PHASE	1	2	2	3	3	4		5	6	6	7	8				
CALL OPTION	X	X	X	X	X	X		X	X	X	X	X				
DELAY TIME																
EXTENTION OPTION	X	X	X	X	X	X		X	X	X	X	X				
EXTEND TIME																
USE ADDED INITIAL		X	X						X	X						
CROSS SWITCH PHASE																

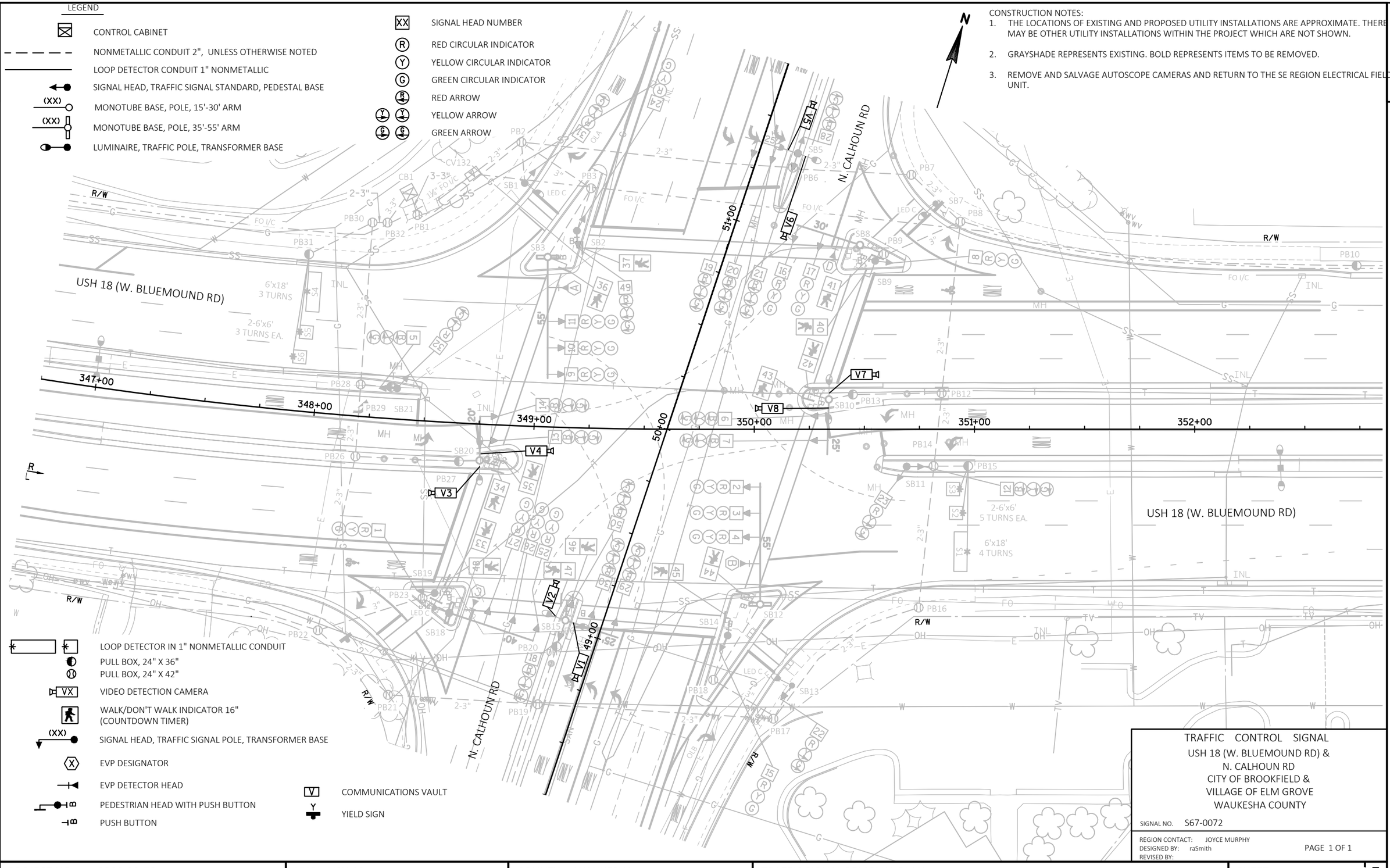
USH 18 (W. BLUEMOUND RD.) & CORPORATE DR./WOELFEL RD.
TOWN/CITY OF BROOKFIELD
WAUKESHA COUNTY
SIGNAL NO: S67-0441 CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 02/23 PAGE NO. 3 OF 3

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW

CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
3. REMOVE AND SALVAGE AUTOSCOPE CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.



- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- VX VIDEO DETECTION CAMERA
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- V COMMUNICATIONS VAULT
- YIELD SIGN

TRAFFIC CONTROL SIGNAL

USH 18 (W. BLUEMOUND RD) &
N. CALHOUN RD
CITY OF BROOKFIELD &
VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0072

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 233 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0072_R11-REM.DWG
LAYOUT NAME - S67-0072_R11_pg1

PLOT DATE : 1/12/2023 9:55 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW

CONSTRUCTION NOTES:

1. * LOCATION IS TO THE FRONT CENTER OF DETECTOR LOOP
2. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

MONOTUBE STRUCTURES
- SB3 = S67-1233
- SB8 = S67-1235
- SB10 = S67-1236
- SB12 = S67-1237
- SB15 = S67-1238
- SB18 = S67-1239
- SB20 = S67-1240

N

SPEED LIMIT= 45 MPH

USH 18 (W. BLUEMOUND RD)

N. CALHOUN RD

SPEED LIMIT= 35 MPH

6-6'X20' 3 TURNS EACH

4-6'X20' 3 TURNS EACH

6'x18' 3 TURNS

2-6'x6' 3 TURNS EA.

6'x18' 4 TURNS

2-6'x6' 5 TURNS EA.

3-6'X8' 5 TURNS EACH

220' TO NEAR RIGHT SIGNAL

347+00 348+00 349+00 350+00 351+00 352+00

- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- V COMMUNICATIONS VAULT
- Y YIELD SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING
CABINET IS EQUIPPED WITH BATTERY BACKUP

SEPARATE THE STOPLINE ZONES FOR 31, 42 AND 82 INTO DETECTION ZONES PER LANE 1/27/17

ADD BATTERY BACKUP TO CB1 8/15

CHANGE CONTROLLER TO ECONOLITE PLAN REVISION PER 2200-16-70 11/15

ADD SB TRIPLE LEFT TURN LANE 7/6/15

REHAB SIGNAL; ADD MONOTUBES TO ALL APPROACHES 2/15/14

NEW CABINET, CONTROLLER, CONCRETE BASE; SIGNALIZE NB RIGHT TURN; MOVE MAST ARM; REPLACE 5 SIGNAL BASES & 20' SIGNAL POLES 12/4/07

ADDED I/C TO NORTH TAIL TO REFLECT FIELD CONDITIONS

AS-BUILT 5/99

EVP FOR ALL APPROACHES 11/95

ADDED SB RIGHT TURN ARROWS 11/16/98

ADDED PED. SIG. & PUSH BUTTONS ON ALL APPROACHES

INITIAL INSTALL 1990

REVISION

REV. NO.	REMOVE VIDEO DETECTION ZONES; ADD LOOPS 11-14, 22-24, 31-36, 41-49, 51-54, 62-64, 71-76, 81-86			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
12	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
N CALHOUN RD
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0072
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 6/6/90 — EDWARD J. FRIEDE, REGION TRAFFIC ENGINEER

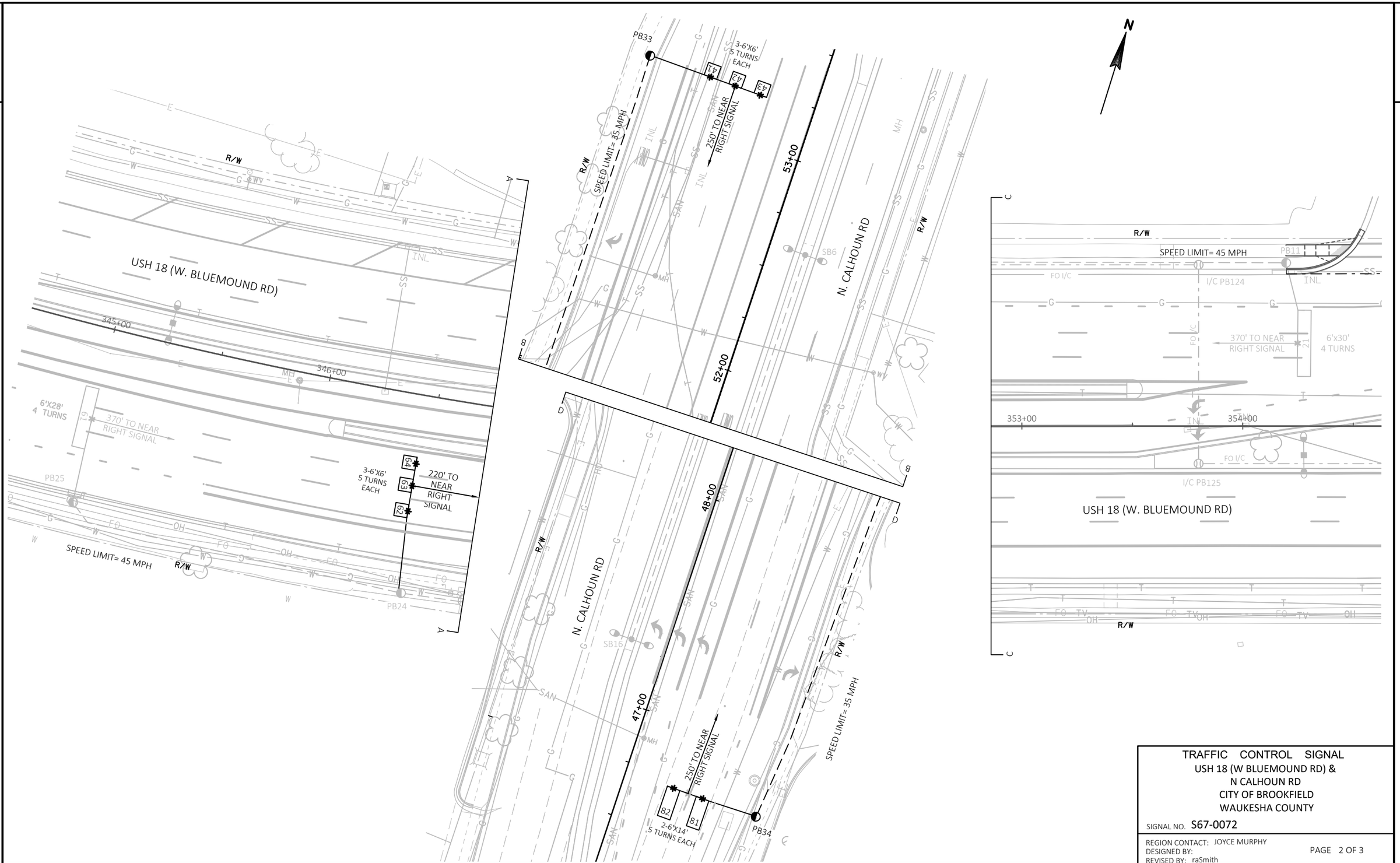
APPROVED
DATE 9/12/90 — H.O. PRICE, STATE TRAFFIC ENGINEER

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 234 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0072_R11_18.DWG
LAYOUT NAME - S67-0072_R11_pg1
PLOT DATE : 2/1/2023 8:08 AM
PLOT BY : UTIC, ANDY
PLOT NAME :
PLOT SCALE : ##########

2



TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
N CALHOUN RD
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0072

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

PAGE 2 OF 3

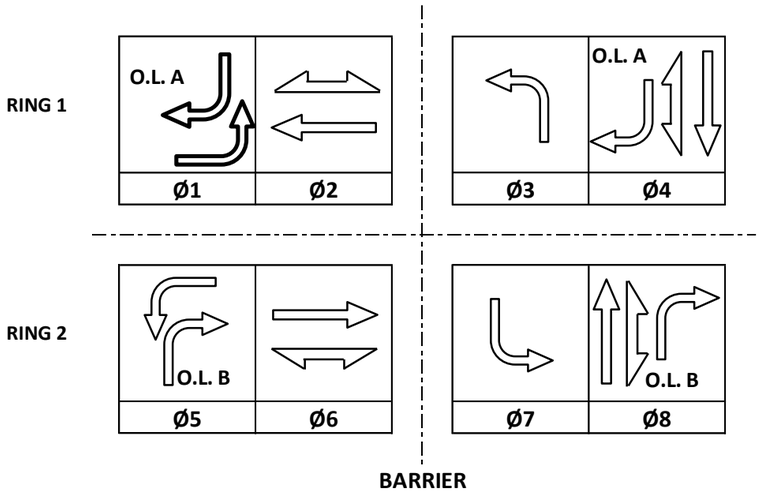
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 235 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0072_R11_18.DWG
LAYOUT NAME - S67-0072_R11_pg2

PLOT DATE : 1/12/2023 10:19 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10,11	R
Ø3	18,19,20,21,49	R ←
Ø4	24,25,26,27	R
Ø5	12,13,14	R ←
Ø6	1,2,3,4	R
Ø7	28,29,30,50	R ←
Ø8	15,16,17	R
Ø2P	37,40	
Ø4P	33,34,35,36	
Ø6P	45,46,47,48	
Ø8P	41,42,43,44	
OLA	31,32	R
OLB	22,23	R
OLC		
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→	↓	↑
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 00-44

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	13	21	23	31	33	35	41
CALLED PHASE	1	1	2	2	3	3	3	4
CALL OPTION	X	X	X	X	X	X	X	
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								X
USE ADDED INITIAL			X	X				
CROSS SWITCH PHASE								

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	43	45	47	49	52	54	62	64
CALLED PHASE	4	4	4	4	5	5	6	6
CALL OPTION		X	X	X	X	X	X	X
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME	X							
USE ADDED INITIAL							X	X
CROSS SWITCH PHASE								

DETECTOR INPUT	35	33	39	37	43	41	47	45
PLAN LOOP DETECTOR*(S)	72	74	76	82	84	86	S2	S4
CALLED PHASE	7	7	7	8	8	8		
CALL OPTION	X	X	X		X	X		
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME				X				
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	14	22	24	32	34	36	42
CALLED PHASE	1	1	2	2	3	3	3	4
CALL OPTION	X	X	X	X	X	X	X	
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								X
USE ADDED INITIAL			X	X				
CROSS SWITCH PHASE								

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	44	46	48	51	53	61	63	71
CALLED PHASE	4	4	4	5	5	6	6	7
CALL OPTION	X	X	X	X	X	X	X	X
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								
USE ADDED INITIAL						X	X	
CROSS SWITCH PHASE								

DETECTOR INPUT	36	34	40	38	44	42	48	46
PLAN LOOP DETECTOR*(S)	73	75	81	83	85	S1	S3	S5/S6
CALLED PHASE	7	7	8	8	8			
CALL OPTION	X	X		X	X			
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME			X					
USE ADDED INITIAL								
CROSS SWITCH PHASE								

USH 18 (W. BLUEMOUND RD.) & N. CALHOUN RD.
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO: S67-0072 CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 02/23 PAGE NUMBER: 3 OF 3

FILE NAME: \\rasmith.com\Brookfield\Transportation\1202708\Traffic\Signal Design\Sequence Sheets\S67-0072\TS2-S_FYA_ABCD_Econolite_SEQ.xlsx PLOT DATE: 1/9/2023 PLOT NAME: TS2-S_FYA_ABCD_Econolite_SEQ.xlsx PLOT BY: M. COWAP PLOT SCALE: 1:1

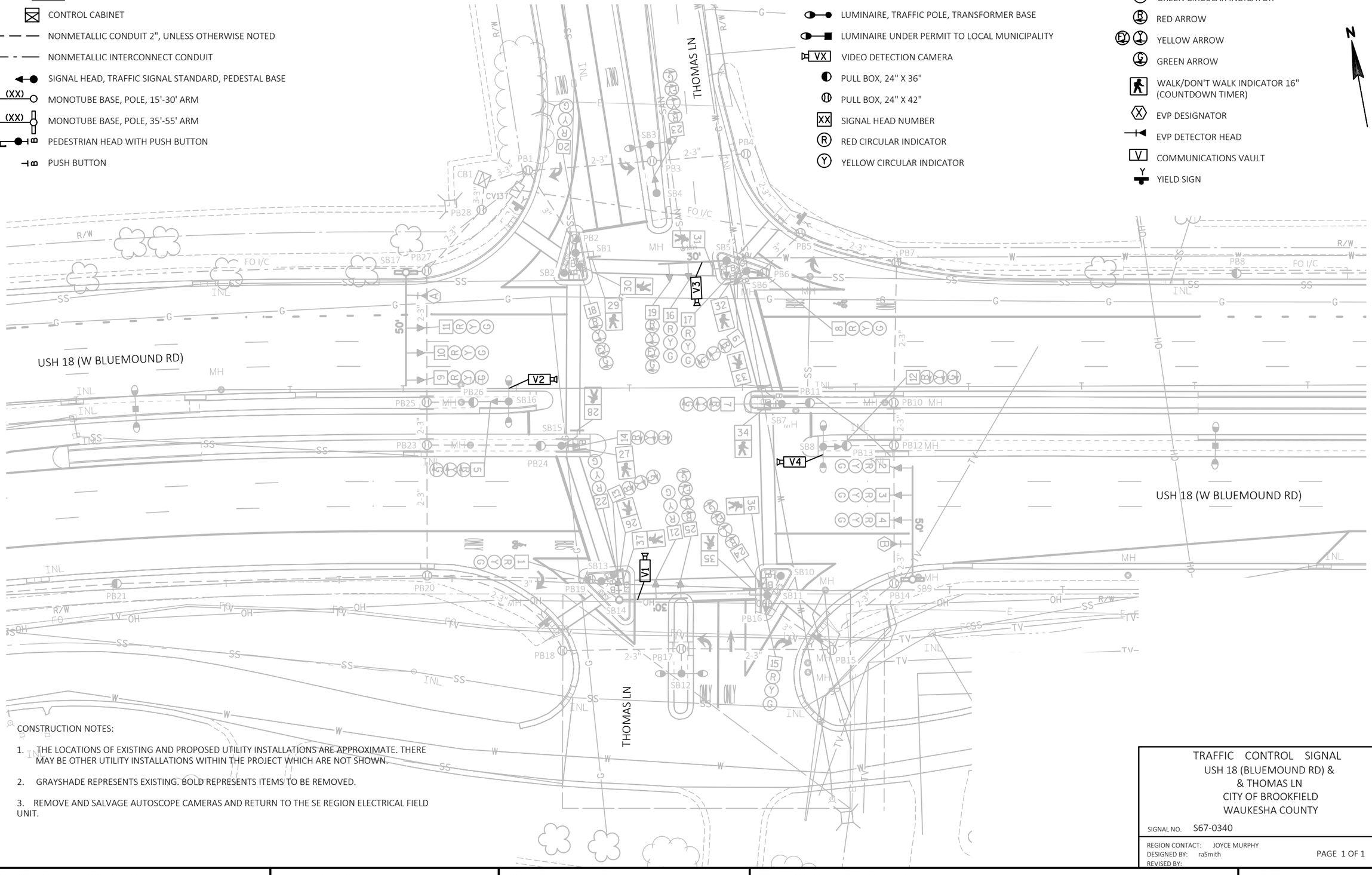
2

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- VX VIDEO DETECTION CAMERA
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- V COMMUNICATIONS VAULT
- Y YIELD SIGN

N



CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.

3. REMOVE AND SALVAGE AUTOSCOPE CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.

TRAFFIC CONTROL SIGNAL
USH 18 (BLUEMOUND RD) &
& THOMAS LN
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0340

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 237 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0340_R7_14-16-REM.DWG
LAYOUT NAME - S67-0340_R7_pg1

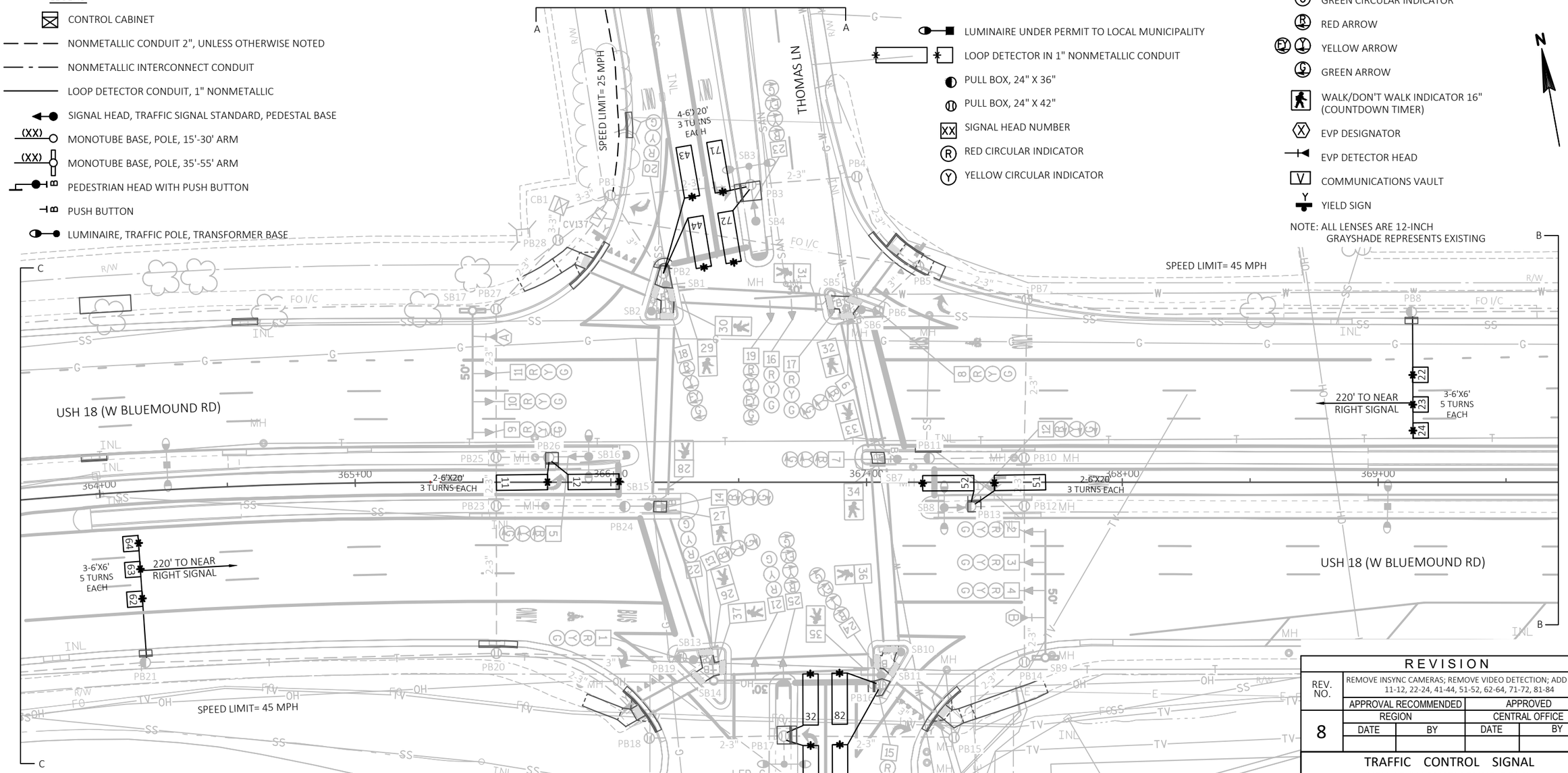
PLOT DATE : 1/12/2023 9:54 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- V COMMUNICATIONS VAULT
- Y YIELD SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

MONOTUBE STRUCTURES
SB5 = S-67-1041
SB9 = S-67-1242
SB14 = S-67-1243
SB17 = S-67-1244

REHAB SIGNAL; ADD MONOTUBES ALL APPROACHES 7/28/11

RELOCATE CB; NEW CONTROLLER; PROTECTED ONLY LTS EB & WB; NEW CONDUIT AROUND PERIMETER, RECABLE; MAST ARM MOVE OFF NORTH ISLAND; SB LEFT MOVE TO MEDIAN 8/1/07

EMERGENCY VEHICLE PREEMPTION EB & WB APPROACHES 10/95

ADD AUDIBLE SIGNALS TO EAST APPROACH 5/9/98

ADDED PED. SIG. TO E & W APPROACHES & PUSH BUTTONS 2/3/92

REPLACE 3-SECTION FYA WITH 4-SECTION FYA NB; INSTALL 15-FT POLE ON SB1 6/1/20

CHANGE CONTROLLER TO ECONOLITE ON 11/10/15; AS-BUILT PER 2200-16-70 10/7/16

REVISION

REV. NO.	REMOVE INSYNC CAMERAS; REMOVE VIDEO DETECTION; ADD LOOPS 11-12, 22-24, 41-44, 51-52, 62-64, 71-72, 81-84			
	APPROVAL RECOMMENDED		APPROVED	
8	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
THOMAS LN
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0340
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 6/6/90 — EDWARD J. FRIEDE, REGION TRAFFIC ENGINEER

APPROVED
DATE 1/20/89 — H.O. PRICE, STATE TRAFFIC ENGINEER

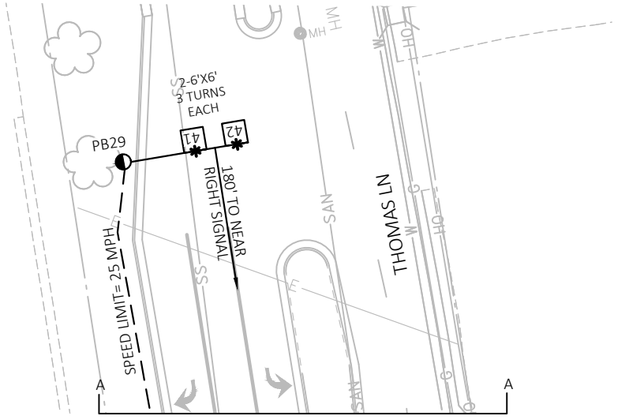
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

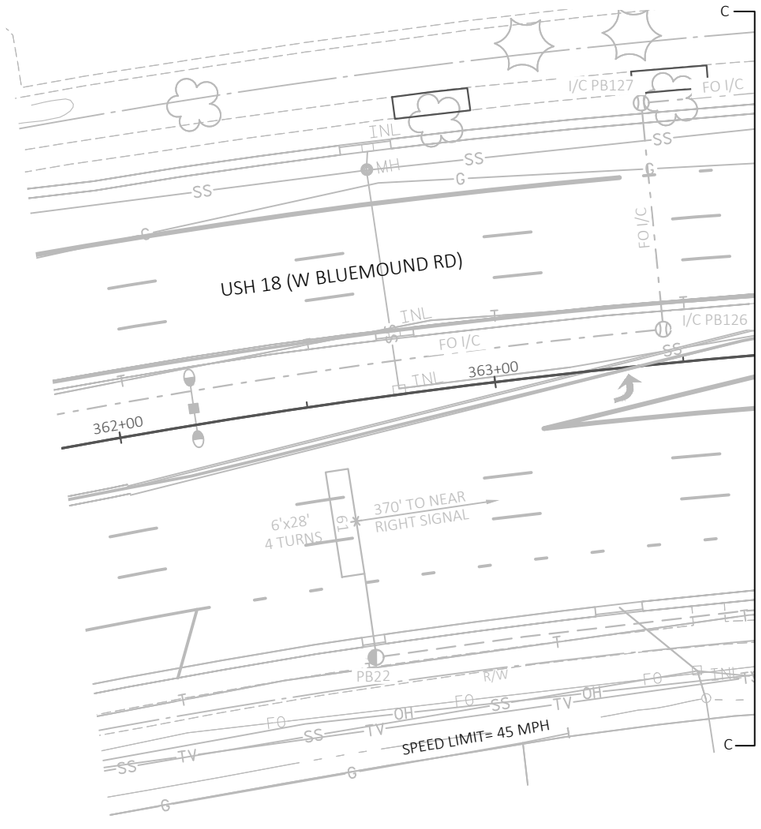
PAGE 1 OF 3

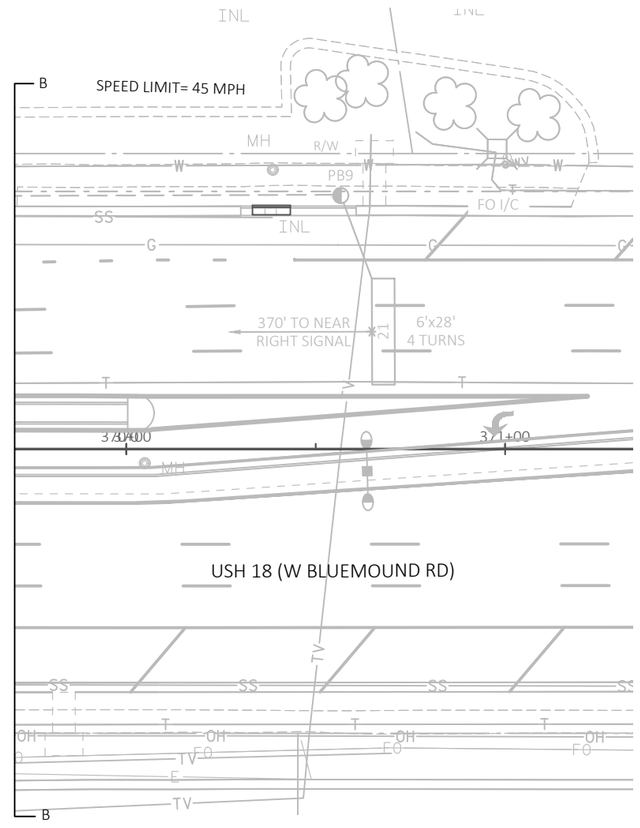
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 238 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0340_R8_18.DWG
LAYOUT NAME - S67-0340_R7_pg1
PLOT DATE : 2/1/2023 8:34 AM
PLOT BY : UTIC, ANDY
PLOT NAME :
PLOT SCALE : ##########

WISDOT/CADDS SHEET 42







N

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
THOMAS LN
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0340

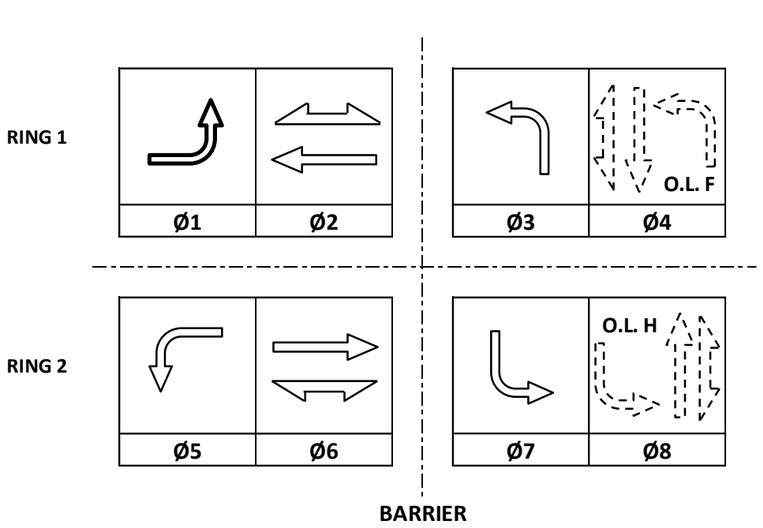
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 239 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0340_R8_18.DWG
LAYOUT NAME - S67-0340_R7_pg2

PLOT DATE : 1/12/2023 10:17 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10,11	R
Ø3	18,19	-
Ø4	20,21,22	R
Ø5	12,13,14	R ←
Ø6	1,2,3,4	R
Ø7	23,24,25	-
Ø8	15,16,17	R
Ø2P	30,31	
Ø4P	26,27,28,29	
Ø6P	36,37	
Ø8P	32,33,34,35	
OLE		
OLF	18,19	R ←
OLG		
OLH	23,34,25	R ←





CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE		
EMERGENCY VEHICLE PREEMPTOR	A	B
MOVEMENT	←	→
PHASE	2+5	6+1

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 00-44

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	21	23	31	41	43	51	61	63	71	81						PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	3	4	4	5	6	6	7	8						CALLED PHASE
CALL OPTION	X	X	X	X		X	X	X	X	X	X						CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X						EXTENTION OPTION
EXTEND TIME					X												EXTEND TIME
USE ADDED INITIAL		X	X					X	X								USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	22	24	32	42	44	52	62	64	72	82						PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	3	4	4	5	6	6	7	8						CALLED PHASE
CALL OPTION	X	X	X	X		X	X	X	X	X	X						CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X						EXTENTION OPTION
EXTEND TIME					X												EXTEND TIME
USE ADDED INITIAL		X	X					X	X								USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

USH 18/W BLUEMOUND RD & THOMAS LN
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO: S67-0340 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 2/2023 PAGE NO. 3 OF 3

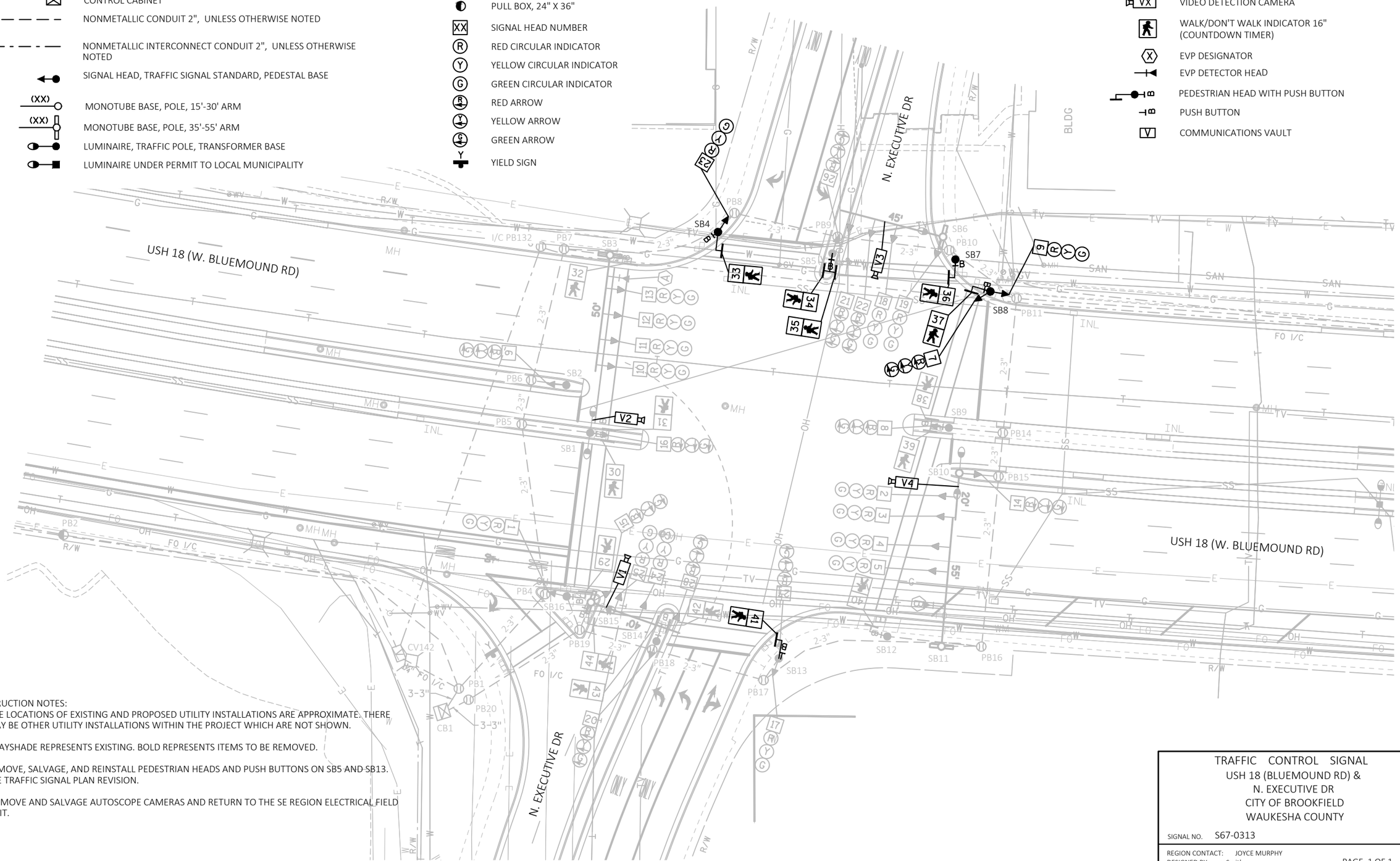
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SEQUENCE OF OPERATIONS	SHEET NO: 240	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN
- VX VIDEO DETECTION CAMERA
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- B PUSH BUTTON
- V COMMUNICATIONS VAULT

N



CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
3. REMOVE, SALVAGE, AND REINSTALL PEDESTRIAN HEADS AND PUSH BUTTONS ON SB5 AND SB13. SEE TRAFFIC SIGNAL PLAN REVISION.
4. REMOVE AND SALVAGE AUTOSCOPE CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.

TRAFFIC CONTROL SIGNAL
USH 18 (BLUEMOUND RD) &
N. EXECUTIVE DR
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0313

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 241 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0313_R6-REM.DWG
LAYOUT NAME - S67-0313_R6_pg1

PLOT DATE : 1/12/2023 9:54 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

LEGEND

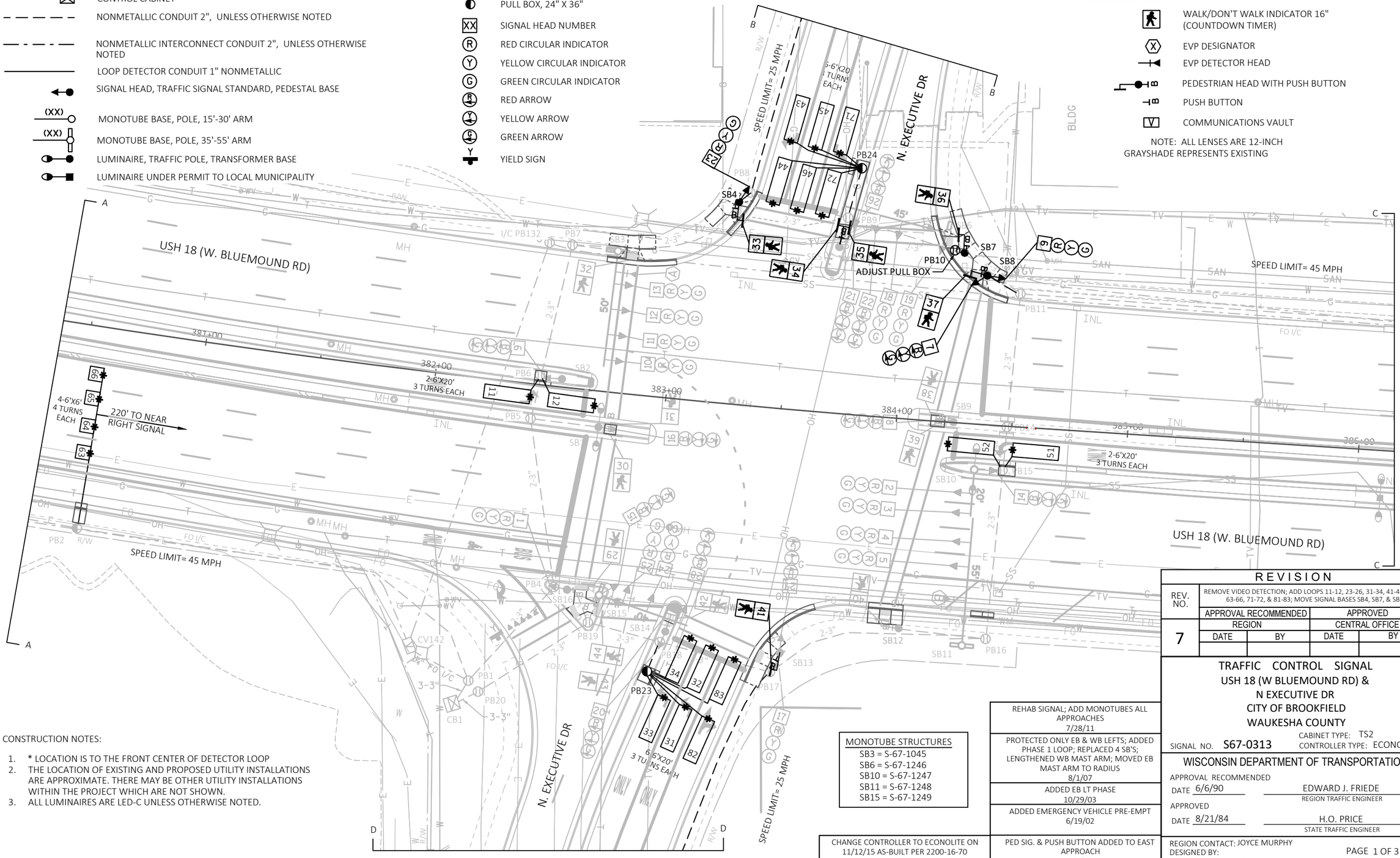
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY

- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- YIELD SIGN

- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- V COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N



CONSTRUCTION NOTES:

1. * LOCATION IS TO THE FRONT CENTER OF DETECTOR LOOP
2. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

MONOTUBE STRUCTURES
- SB3 = S-67-1045
- SB6 = S-67-1246
- SB10 = S-67-1247
- SB11 = S-67-1248
- SB15 = S-67-1249

CHANGE CONTROLLER TO ECONOLITE ON 11/12/15 AS-BUILT PER 2200-16-70 10-7-16

PED SIG. & PUSH BUTTON ADDED TO EAST APPROACH 3/3/92

ADDED EMERGENCY VEHICLE PRE-EMPT 6/19/02

ADDED EB LT PHASE 10/29/03

PROTECTED ONLY EB & WB LEFTS; ADDED PHASE 1 LOOP; REPLACED 4 SB'S; LENGTHENED WB MAST ARM; MOVED EB MAST ARM TO RADIUS 8/1/07

REHAB SIGNAL; ADD MONOTUBES ALL APPROACHES 7/28/11

REVISION

REV. NO.	REMOVE VIDEO DETECTION; ADD LOOPS 11-12, 23-26, 31-34, 41-46, 51-52, 63-66, 71-72, & 81-83; MOVE SIGNAL BASES SB4, SB7, & SB8			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
7	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
N EXECUTIVE DR
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0313
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 6/6/90 — EDWARD J. FRIEDE, REGION TRAFFIC ENGINEER

APPROVED
DATE 8/21/84 — H.O. PRICE, STATE TRAFFIC ENGINEER

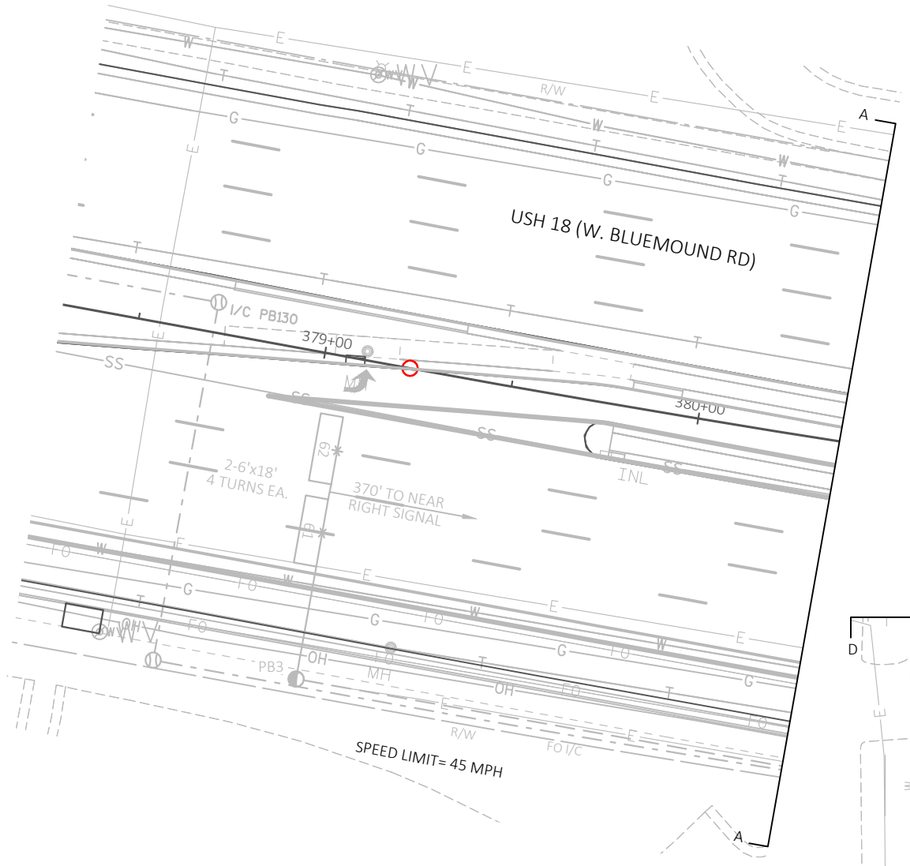
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

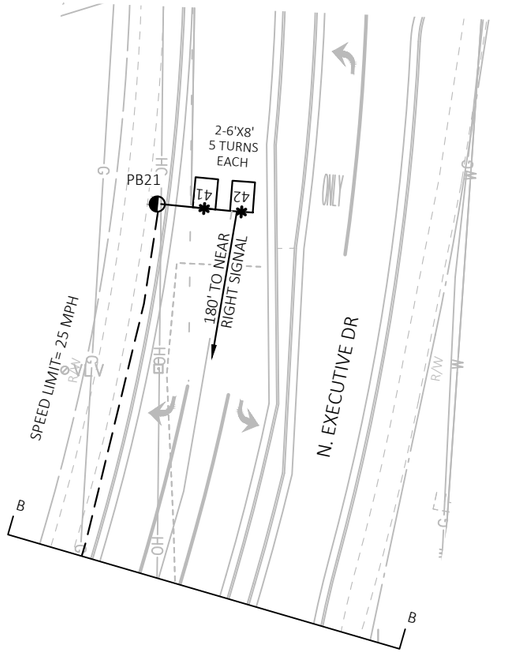
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 242 E

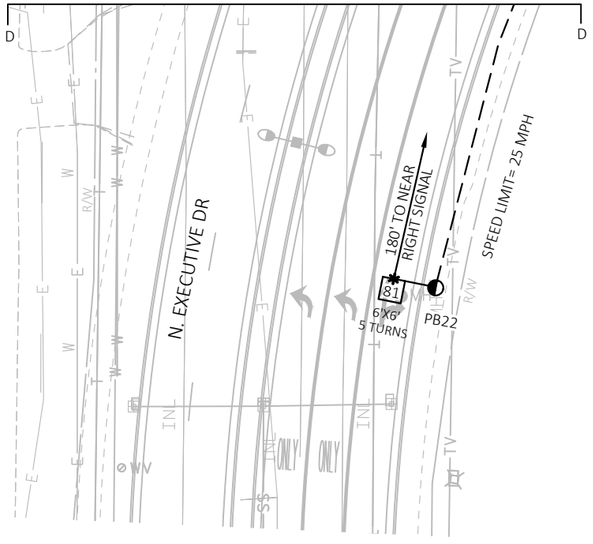
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PLOT DATE : 2/1/2023 9:55 AM
PLOT BY : UTIC, ANDY
PLOT NAME :
PLOT SCALE : ##########

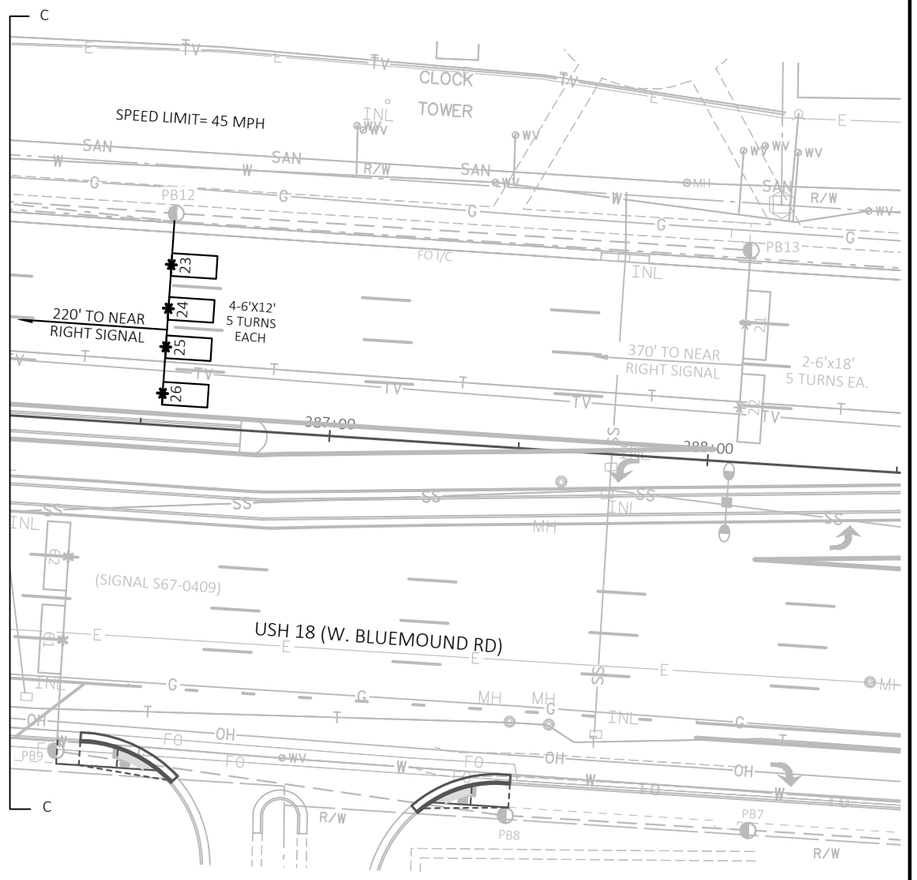
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N









TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
N EXECUTIVE DR
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0313

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

PAGE 2 OF 3

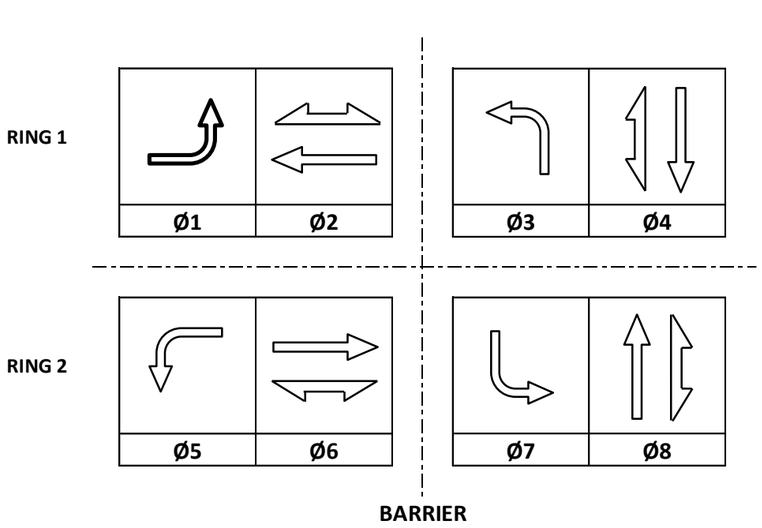
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 243 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0313_R6_18.DWG
LAYOUT NAME - S67-0313_R6_pg2

PLOT DATE : 1/12/2023 10:15 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	6,7,8	R ←
Ø2	9,10,11,12,13	R
Ø3	20,21,22	R ←
Ø4	23,24,25	R
Ø5	14,15,16	R ←
Ø6	1,2,3,4,5	R
Ø7	26,27,28	R ←
Ø8	17,18,19	R
Ø2P	33,34,35,36	
Ø4P	29,30,31,32	
Ø6P	41,42,43,44	
Ø8P	37,38,39,40	
OLE		
OLF		
OLG		
OLH		





CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B
MOVEMENT	←	→
PHASE	2+5	6+1

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS- 00-44	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	23	25	31	33	41	43
CALLED PHASE	1	2	2	2	3	3	4	4
CALL OPTION	X	X	X	X	X	X		X
DELAY TIME								X
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME							X	
USE ADDED INITIAL		X	X	X				
CROSS SWITCH PHASE								

DETECTOR INPUT	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	45	51	61	63	65	71	81	83	PLAN LOOP DETECTOR*(S)
CALLED PHASE	4	5	6	6	6	7	8	8	CALLED PHASE
CALL OPTION	X	X	X	X	X	X		X	CALL OPTION
DELAY TIME									DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	EXTENTION OPTION
EXTEND TIME							X		EXTEND TIME
USE ADDED INITIAL			X	X	X				USE ADDED INITIAL
CROSS SWITCH PHASE									CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	24	26	32	34	42	44
CALLED PHASE	1	2	2	2	3	3	4	4
CALL OPTION	X	X	X	X	X	X		X
DELAY TIME								X
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME							X	
USE ADDED INITIAL		X	X	X				
CROSS SWITCH PHASE								

DETECTOR INPUT	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	46	52	62	64	66	72	82		PLAN LOOP DETECTOR*(S)
CALLED PHASE	4	5	6	6	6	7	8		CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X		CALL OPTION
DELAY TIME									DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X		EXTENTION OPTION
EXTEND TIME									EXTEND TIME
USE ADDED INITIAL			X	X	X				USE ADDED INITIAL
CROSS SWITCH PHASE									CROSS SWITCH PHASE

USH 18 (W BLUEMOUND RD) & N EXECUTIVE DR
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO: S67-0313 CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 2/2023 PAGE NO. 3 OF 3

PROJECT ID:	2200-20-70
INTERSECTION:	USH 18 (W BLUEMOUND RD) & EXECUTIVE DR

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK	
SB1	*12*	*16*				*RED/BLK*	*ORG/BLK*	*GRN/BLK*				
		30								*BLK*	*BLU*	
		31								*BLK*	*BLU*	
		B										*WHT/BLK*
SB2	*12*	*6*				*RED*	*ORG*	*GRN*				
SB3	*12*	*10*	*RED*	*ORG*	*GRN*							
		11	*RED*	*ORG*	*GRN*							
		12	*RED*	*ORG*	*GRN*							
		13	*RED*	*ORG*	*GRN*							
		32								*BLK*	*BLU*	
		B										*WHT/BLK*
SB4	**12**	**23**	**RED**	**ORG**	**GRN**							
		33								**BLK**	**BLU**	
		B										**WHT/BLK**
SB5	*12*	*26*				*RED/BLK*	*ORG/BLK*	*GRN/BLK*				
		34								*BLK*	*BLU*	
		35								*BLK*	*BLU*	
		B										*WHT/BLK*
SB6	*12*	*18*	*RED*	*ORG*	*GRN*							
		19	*RED*	*ORG*	*GRN*							
		21				*RED/BLK*	*ORG/BLK*	*GRN/BLK*				
		22				*RED/BLK*	*ORG/BLK*	*GRN/BLK*				
SB7	**7**	**36**								**BLK**	**BLU**	
		B										**WHT/BLK**
SB8	**12**	**7**				**RED/BLK**	**ORG/BLK**	**GRN/BLK**				
		9	**RED**	**ORG**	**GRN**							
		37								**BLK**	**BLU**	
		B										**WHT/BLK**
SB9	*12*	*8*				*RED*	*ORG*	*GRN*				
		38								*BLK*	*BLU*	
		39								*BLK*	*BLU*	
		B										*WHT/BLK*
SB10	*12*	*2*	*RED*	*ORG*	*GRN*							
		3	*RED*	*ORG*	*GRN*							
		14				*RED/BLK*	*ORG/BLK*	*GRN/BLK*				
SB11	*12*	*4*	*RED*	*ORG*	*GRN*							
		5	*RED*	*ORG*	*GRN*							
SB12	*7*	*40*								*BLK*	*BLU*	
		B										*WHT/BLK*
SB13	*12*	*17*	*RED*	*ORG*	*GRN*							
		27				*RED/BLK*	*ORG/BLK*	*GRN/BLK*				
		41								*BLK*	*BLU*	
		B										*WHT/BLK*
SB14	*12*	*20*				*RED/BLK*	*ORG/BLK*	*GRN/BLK*				
		42								*BLK*	*BLU*	
		43								*BLK*	*BLU*	
		B										*WHT/BLK*
SB15	*15*	*15*				*RED/BLK*	*ORG/BLK*	*GRN/BLK*				
		24	*RED*	*ORG*	*GRN*							
		25	*RED*	*ORG*	*GRN*							
		28				*RED/BLK*	*ORG/BLK*	*GRN/BLK*				
		44								*BLK*	*BLU*	
		B										*WHT/BLK*
SB16	*12*	*1*	*RED*	*ORG*	*GRN*							
		29								*BLK*	*BLU*	
		B										*WHT/BLK*

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	*SB1*
SB1	*SB2*
SB2	*SB3*
SB3	**SB4**
SB4	**SB5**
SB5	*SB6*
SB6	**SB7**
SB7	**SB8**
SB8	**SB9**
SB9	*SB10*
SB10	*SB11*
SB11	*SB12*
SB12	*SB13*
SB13	*SB14*
SB14	*SB15*
SB15	*SB16*
SB16	*CB1*

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
CB1	*PB1*
SB1	*PB5*
SB2	*PB6*
SB3	*PB7*
SB4	**PB8**
SB5	*PB9*
SB7	**PB10**
SB8	**PB11**
SB9	*PB14*
SB10	*PB15*
SB11	*PB16*
SB13	*PB17*
SB14	*PB18*
SB15	*PB19*
CB1	*PB20*

Emergency Vehicle Preemption	
From	To
CB1	*HEAD A (SB3)*
CB1	*HEAD B (SB11)*

Confirmation Beacon Cable Traffic Signal 3-14 AWG	
From	To
CB1	*HEAD A (SB3)*
CB1	*HEAD B (SB11)*

Lighting UF 2-10 AWG Grounded	
From	To
CB1	*SB1*
SB1	*SB6*
CB1	*SB15*
SB15	*SB10*

******Grayshade* **represents existing cable. Bold represents new cable to be installed with the project.**
***Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications**
***Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.**
***Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.**

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- YIELD SIGN
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VX VIDEO DETECTION CAMERA
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PB PUSH BUTTON
- V COMMUNICATIONS VAULT

N

USH 18 (W. BLUEMOUND RD)

MAIN ST

BROOKFIELD SQUARE

+00 389+00 390+00 391+00 392+00 393+00 394

CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
3. REMOVE AND SALVAGE AUTOSCOPE CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.

TRAFFIC CONTROL SIGNAL
USH 18 (BLUEMOUND RD) &
MAIN ST / BROOKFIELD SQUARE
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0409

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 246	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0409_R7-REM.DWG
LAYOUT NAME - S67-0409_R7_pg1

PLOT DATE : 1/12/2023 9:54 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- YIELD SIGN
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- B PUSH BUTTON
- V COMMUNICATIONS VAULT

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

N

USH 18 (W. BLUEMOUND RD)

(S67-0313)

MAIN ST

SPEED LIMIT= 25 MPH

6-6'X20' 3 TURNS EACH

PB24 PB26

SPEED LIMIT= 45 MPH

4-6'X6' 5 TURNS EACH 220' TO NEAR RIGHT SIGNAL

2-6'X20' 3 TURNS EACH

4-6'X20' 3 TURNS EACH

4-6'X6' 5 TURNS EACH 220' TO NEAR RIGHT SIGNAL

PB27 PB28

6-6'X20' 3 TURNS EACH

BROOKFIELD SQUARE

SPEED LIMIT= 25 MPH

CONSTRUCTION NOTES:

1. * LOCATION IS TO THE FRONT CENTER OF DETECTOR LOOP
2. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

MONOTUBE STRUCTURES

SB4 = S-67-1250
SB6 = S-67-1251
SB8 = S-67-1252
SB12 = S-67-1253
SB14 = S-67-1254
SB15 = S-67-1255

CHANGE CONTROLLER TO ECONOLITE 11/15 AS-BUILT PER 2200-16-70

REHAB SIGNAL; ADD MONOTUBES ALL APPROACHES 2/15/12

CHANGED TO PROTECTED ONLY LEFTS EB & WB; ADD SUPPLEMENTAL LT HEADS 8/1/07

NEW GEOMETRICS; CHANGED CONTROLLER TO EPAC 5/17/05

ADDED EMERGENCY VEHICLE PREEMPTION 6/19/02

ADD PED. SIG. AND PUSH BUTTONS ON EAST APPROACH 1/10/92

INITIAL INSTALL 1990

SEPARATE STOPLINE ZONES FOR 31. 51 AND 71 INTO DETECTION ZONES PER LANE 1/27/17

REVISION

REV. NO.	REMOVE VIDEO DETECTION; REMOVE INSYNC CAMAERAS; ADD LOOPS 11-12, 23-26, 31-34, 41-43, 51-54, 63-66, 71-74, 81-83; INSTALL PB24-PB29			
	APPROVAL RECOMMENDED		APPROVED	
8	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
MAIN ST / BROOKFIELD SQUARE
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0409
CABINET TYPE: TS-2
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

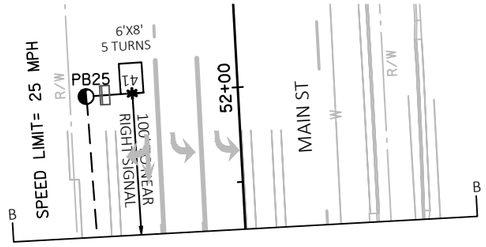
APPROVAL RECOMMENDED
DATE 6/6/90 EDWARD J. FRIEDE
REGION TRAFFIC ENGINEER

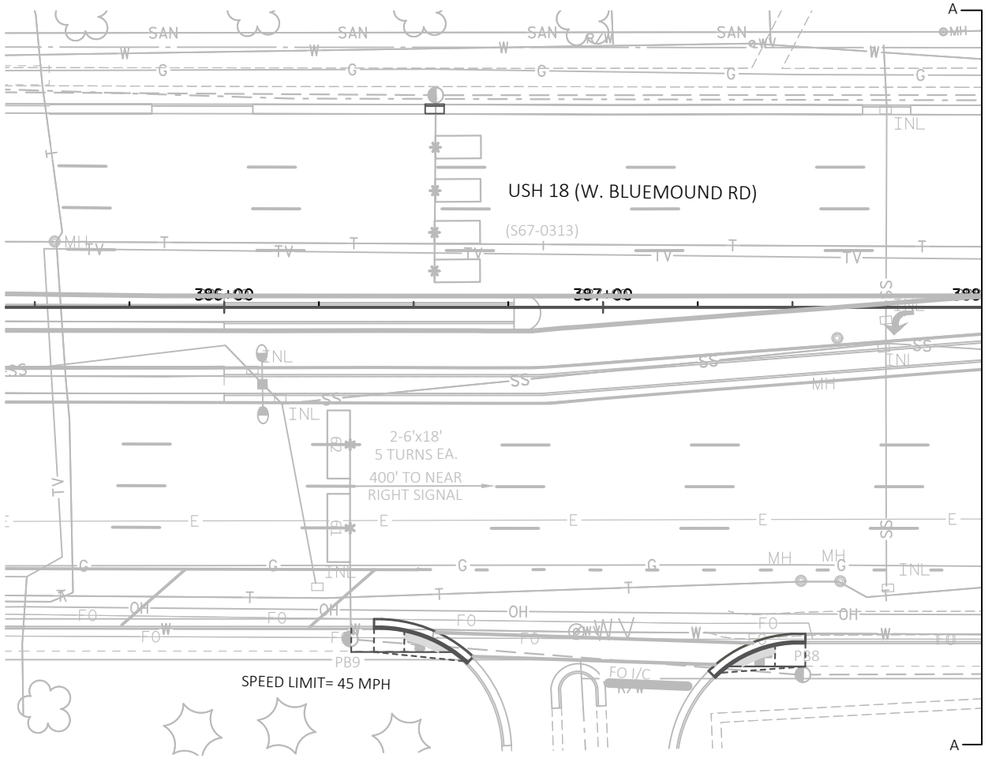
APPROVED
DATE 1/20/89 H.O. PRICE
STATE TRAFFIC ENGINEER

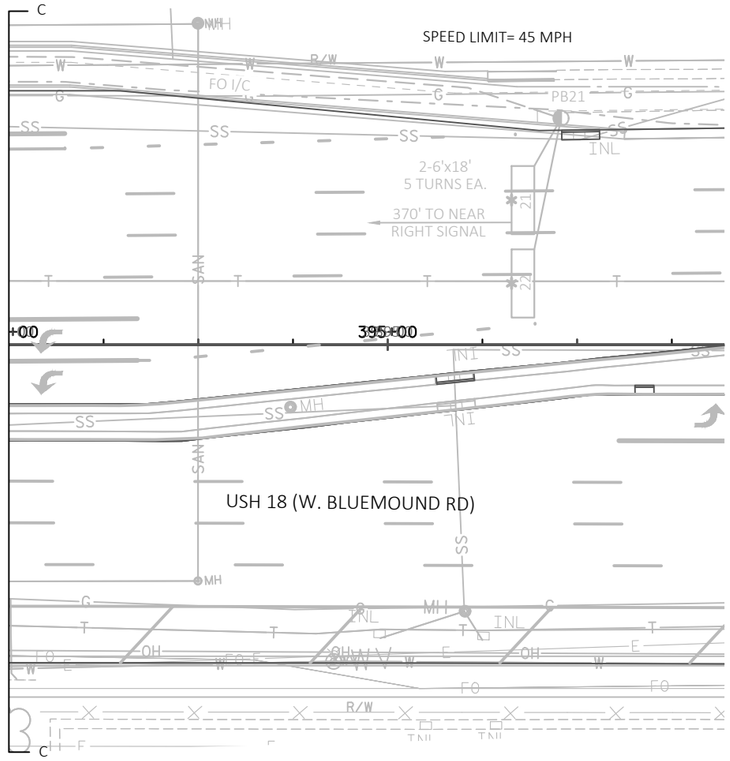
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

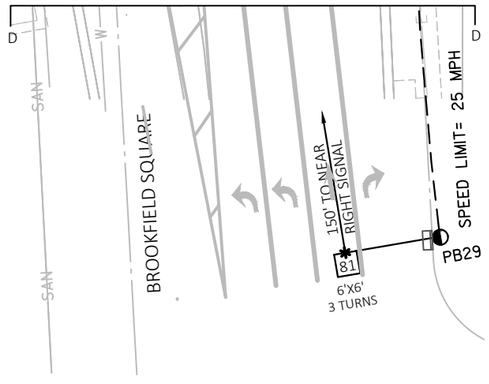
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 247 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0409_R7_18.DWG
LAYOUT NAME - S67-0409_R7_pg1
PLOT DATE : 2/1/2023 9:59 AM
PLOT BY : UTIC, ANDY
PLOT NAME :
PLOT SCALE : ##########









TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
MAIN ST / BROOKFIELD SQUARE
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO. S67-0409

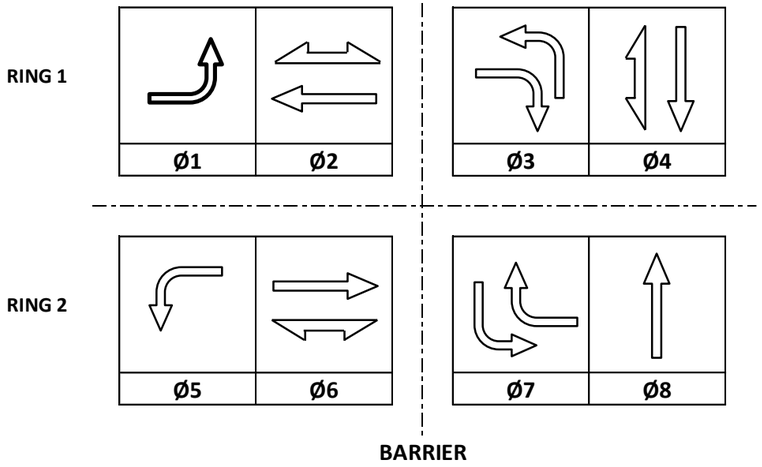
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 248 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0409_R7_18.DWG
LAYOUT NAME - S67-0409_R7_pg2

PLOT DATE : 2/1/2023 10:11 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	7,8,9	R ←
Ø2	10,11,12,13,14,15	R
Ø3	1,6,20,21,24	R ←
Ø4	25,28,29	R
Ø5	16,17,18	R ←
Ø6	1,2,3,4,5,6	R
Ø7	10,15,26,27,30	R ←
Ø8	19,22,23	R
Ø2P	35,36,37,38	
Ø4P	31,32,33,34	
Ø6P	39,40,41,42	
Ø8P		
OLE		
OLF		
OLG		
OLH		





CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B
MOVEMENT	←	→
PHASE	2+5	6+1

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS- 00-44	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	21	23	25	31	33	41	43	52	54	62	64	66	72	74	82	PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	3	3	4	4	5	5	6	6	6	7	7	8	CALLED PHASE
CALL OPTION	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	CALL OPTION
DELAY TIME								X									DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	EXTENTION OPTION
EXTEND TIME							X										EXTEND TIME
USE ADDED INITIAL		X	X	X							X	X	X				USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	22	24	26	32	34	42	51	53	61	63	65	71	73	81	83	PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	2	3	3	4	5	5	6	6	6	7	7	8	8	CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	CALL OPTION
DELAY TIME							X										DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	EXTENTION OPTION
EXTEND TIME															X		EXTEND TIME
USE ADDED INITIAL		X	X	X						X	X	X					USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

USH 18 (W. BLUEMOUND RD.) & MAIN ST
CITY OF BROOKFIELD
WAUKESHA COUNTY

SIGNAL NO: S67-0409 CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 2/2023 PAGE NO. 3 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	SEQUENCE OF OPERATIONS	SHEET NO: 249	E

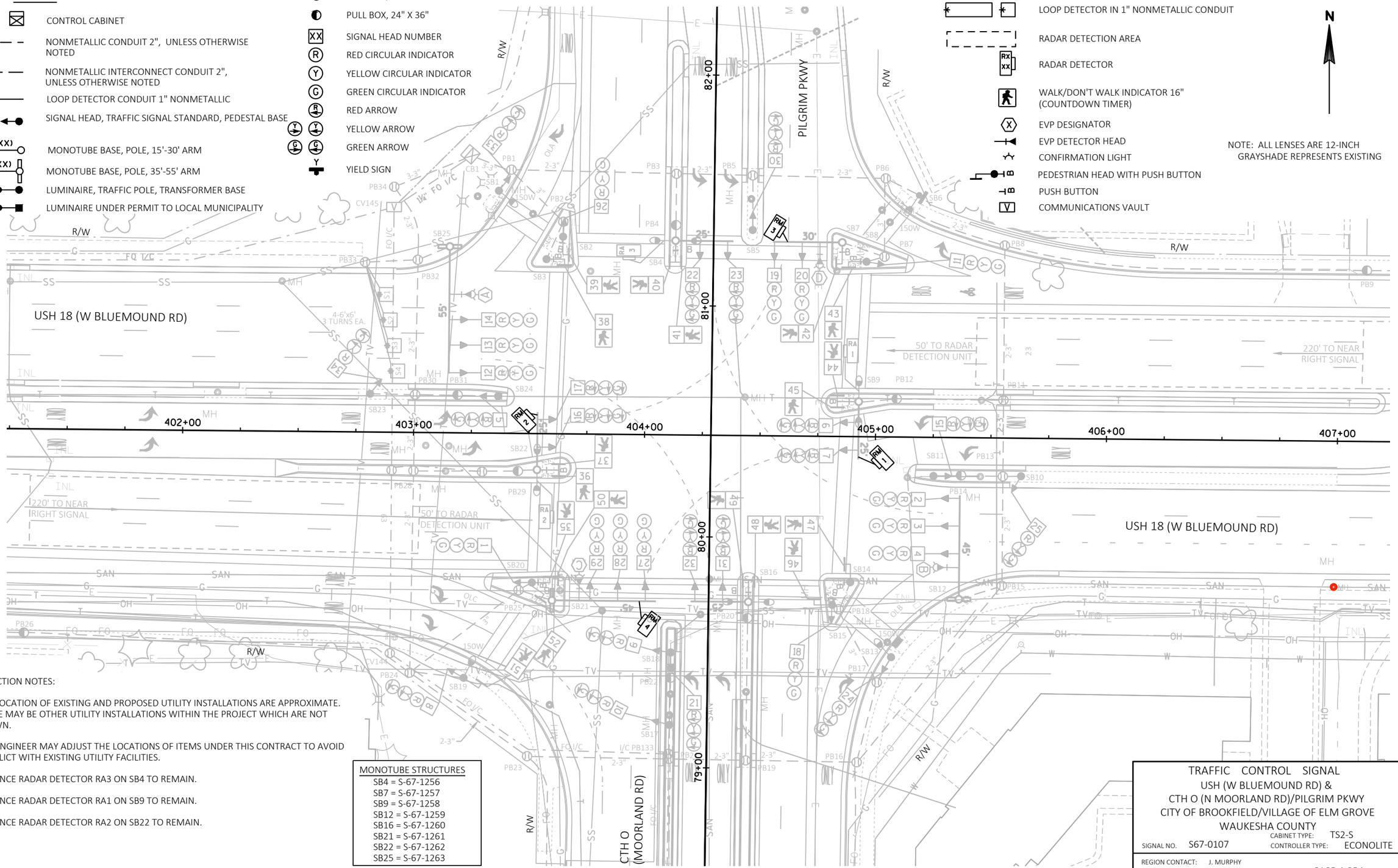
FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- RADAR DETECTION AREA
- RX XX RADAR DETECTOR
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- V COMMUNICATIONS VAULT

N

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
3. ADVANCE RADAR DETECTOR RA3 ON SB4 TO REMAIN.
4. ADVANCE RADAR DETECTOR RA1 ON SB9 TO REMAIN.
5. ADVANCE RADAR DETECTOR RA2 ON SB22 TO REMAIN.

MONOTUBE STRUCTURES
- SB4 = S-67-1256
- SB7 = S-67-1257
- SB9 = S-67-1258
- SB12 = S-67-1259
- SB16 = S-67-1260
- SB21 = S-67-1261
- SB22 = S-67-1262
- SB25 = S-67-1263

TRAFFIC CONTROL SIGNAL
USH (W BLUEMOUND RD) &
CTH O (N MOORLAND RD)/PILGRIM PKWY
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0107
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

REGION CONTACT: J. MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 250 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0107_I - REM.DWG
LAYOUT NAME - 024001_SP-rem
PLOT DATE : 1/12/2023 9:53 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : ##########

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- YA YELLOW ARROW
- GA GREEN ARROW
- Y YIELD SIGN
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- RADAR DETECTION AREA
- RX XX RADAR DETECTOR
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- V COMMUNICATIONS VAULT

N

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

USH 18 (W BLUEMOUND RD)

SPEED LIMIT= 35 MPH

SPEED LIMIT= 45 MPH

PILGRIM PKWY

6 - 6' X 20' 3 TURNS EACH

4 - 6' X 20' 3 TURNS EACH

4 - 6' X 20' 4 TURNS EACH

4 - 6' X 20' 4 TURNS EACH

4 - 6' X 20' 3 TURNS EACH

4 - 6' X 20' 3 TURNS EACH

3 - 6' X 6' 5 TURNS EA.

3 - 6' X 6' 5 TURNS EA.

220' TO NEAR RIGHT SIGNAL

220' TO NEAR RIGHT SIGNAL

50' TO RADAR DETECTION UNIT

50' TO RADAR DETECTION UNIT

CTH O (MOORLAND RD)

82+00

81+00

80+00

79+00

402+00

403+00

404+00

406+00

407+00

CONSTRUCTION NOTES:

1. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
3. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.

MONOTUBE STRUCTURES
- SB4 = S-67-1256
- SB7 = S-67-1257
- SB9 = S-67-1258
- SB12 = S-67-1259
- SB16 = S-67-1260
- SB21 = S-67-1261
- SB22 = S-67-1262
- SB25 = S-67-1263

REPLACE SB17, SB18, & PB22 AND ADJUST PB19, PB21, AND I/C PB133 TO ACCOMMODATE PROJECT STAGING; REMOVE RA4, V1, V2, V3, V4, & V5; INSTALL LOOPS 81, 82, S1, S2, S3, PB35, AND PB36; UPDATE RADAR DETECTION 10/18/21

REV. NO.	REVISION
	INSTALL LOOPS 11-15, 22-24, 32-34, 42-47, 51-54, 62-64, 83-86; UPDATE RADAR DETECTION
9	ADD RADAR DETECTION; REPLACE CONTROLLER 10/9/15
	ADD EVP CONFIRMATION LIGHTS 11/07/14
	UPDATE DETECTION AND CABINET; ADD INSYNC ADAPTIVE CONTROL 2/25/14
	REHAB SIGNAL; ADD MONOTUBES ALL APPROACHES 2/15/12
	NEW CABINET, CONTROLLER & CONCRETE BASE; NEW CONDUIT AROUND PERIMETER; SIGNALIZE EB RT. REPLACE 6 SIGNAL BASES, INSTALL 20' POLES, ADD 6 SIGNAL HEADS 8/1/07
	ADDED NB & SB RT OVERLAPS; CHANGE CABINET & CONTROLLER 8/04
	ADDED EPV FOR ALL APPROACHES 10/95

APPROVAL RECOMMENDED — REGION: DATE / BY
APPROVED — CENTRAL OFFICE: DATE / BY

TRAFFIC CONTROL SIGNAL

USH 18 (W BLUEMOUND RD) &
CTH O (N MOORLAND ROAD)/PILGRIM PKWY
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0107
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 6/6/90 — EDWARD J. FRIEDE, REGION TRAFFIC ENGINEER

APPROVED
DATE 01/20/89 — H.O. PRICE, STATE TRAFFIC ENGINEER

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

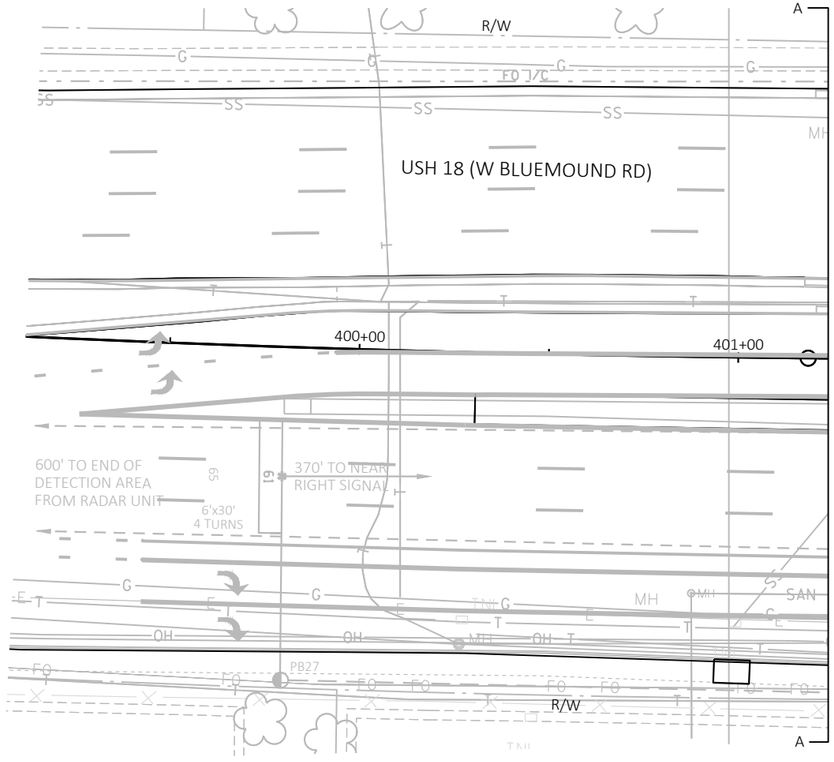
PROJECT NO: 2200-20-70 | HWY: USH 18 | COUNTY: WAUKESHA | TRAFFIC SIGNAL PLAN | SHEET 251 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0107_R9_18.DWG
LAYOUT NAME - 024001_SP

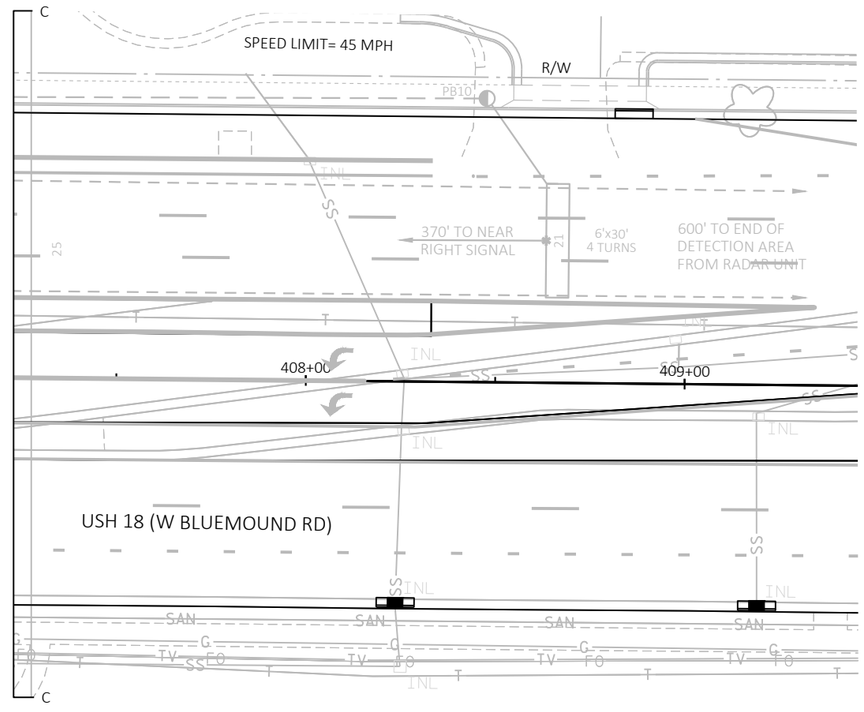
PLOT DATE : 2/1/2023 8:10 AM | PLOT BY : UTIC, ANDY | PLOT NAME : | PLOT SCALE : ##########

2

N



SPEED LIMIT= 45 MPH



TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
CTH O (N MOORLAND RD)/PILGRIM PKWY
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0107

REGION CONTACT: J. MURPHY
DESIGNED BY:
REVISED BY: raSmith

PAGE 2 OF 4

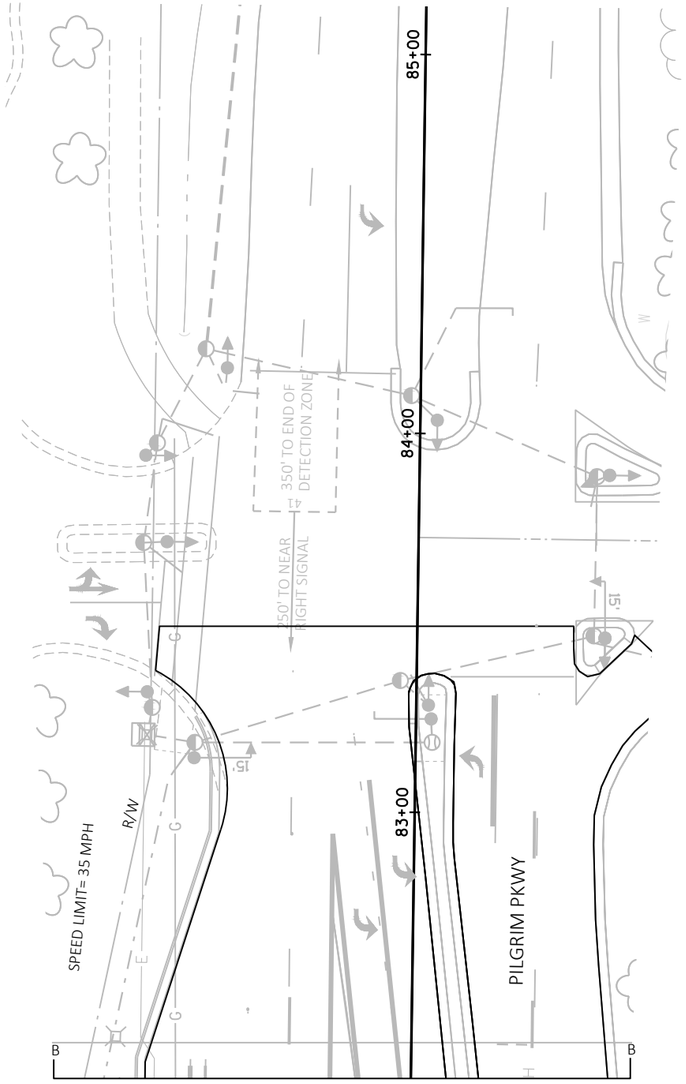
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 252	E

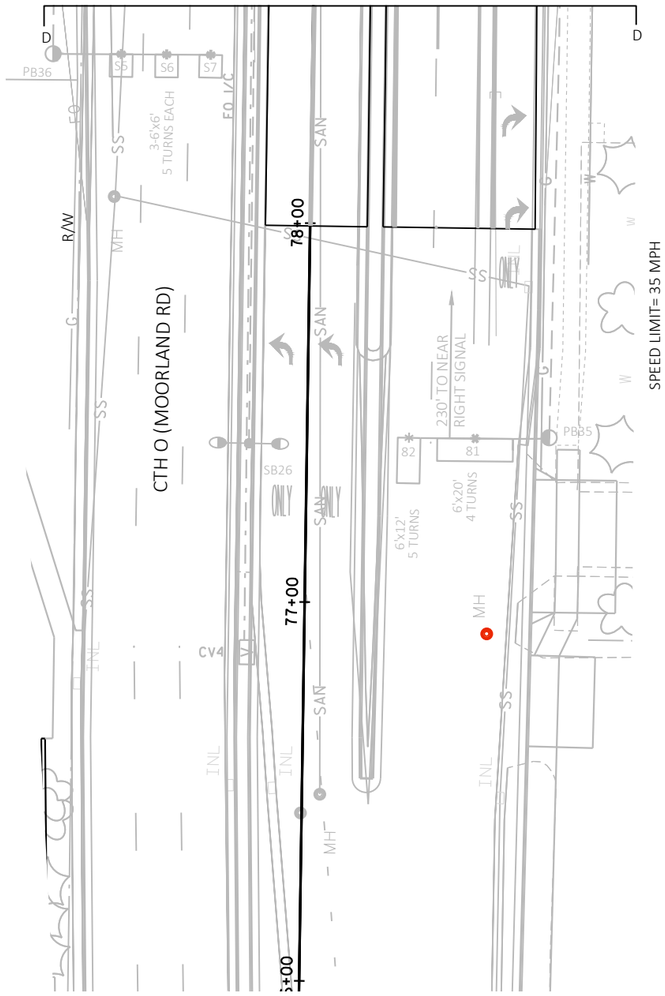
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0107_R9_18.DWG
LAYOUT NAME - 024002_SP

PLOT DATE : 1/12/2023 10:10 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

2

N





TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
CTH O (N MOORLAND RD)/PILGRIM PKWY
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0107

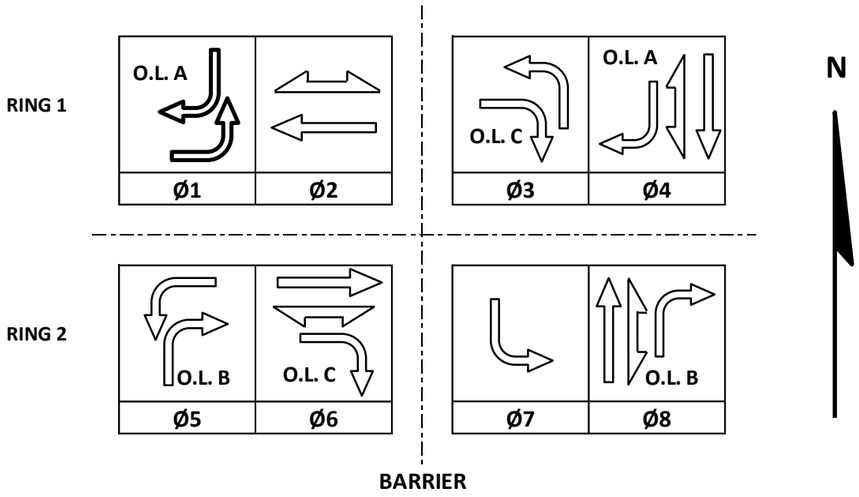
REGION CONTACT: J. MURPHY
DESIGNED BY:
REVISED BY: raSmith

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 253	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0107_R9_18.DWG
LAYOUT NAME - 024003_SP

PLOT DATE : 1/12/2023 10:11 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	11,12,13,14	R
Ø3	21,22,23	R ←
Ø4	26,27,28,29	R
Ø5	15,16,17	R ←
Ø6	1,2,3,4	R
Ø7	30,31,32	R ←
Ø8	18,19,20	R
Ø2P	39,40,41,42	
Ø4P	35,36,37,38,51,52	
Ø6P	47,48,49,50	
Ø8P	43,44,45,46	
OLA	33,34	R
OLB	24,25	R
OLC	8,9,10	R



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2		6	MIN	X
3		8		X
4		8		X
5		2		X
6		2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	O.L. C	O.L. A	O.L.
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM NO:	67-0053

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	17	19	21	23	25	27	29	31	49	51	53	55	57	59	61	63	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11/12	21	23	31/32	42	44	46	51/52	61	63	71/72	81	83	85	S1/S2	S5/S6	25	41	65						PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	3	4	4	4	5	6	6	7	8	8	8			2	4	6						CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X	X	X	X	X		X	X			X		X						CALL OPTION
DELAY TIME																									DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X						EXTENTION OPTION
EXTEND TIME												X						X							EXTEND TIME
USE ADDED INITIAL		X	X						X	X															USE ADDED INITIAL
CROSS SWITCH PHASE																									CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14	18	20	22	24	26	28	30	32	50	52	54	56	58	60	62	64	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	13/14	22	24	33/34	43	45	47	53/54	62	64	73/74	82	84	86	S3/S4	S7	26		66						PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	2	3	4	4	4	5	6	6	7	8	8	8			2		6						CALLED PHASE
CALL OPTION	X	X	X	X	X	X	X	X	X	X	X		X	X			X		X						CALL OPTION
DELAY TIME																									DELAY TIME
EXTENTION OPTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X		X						EXTENTION OPTION
EXTEND TIME												X													EXTEND TIME
USE ADDED INITIAL		X	X						X	X															USE ADDED INITIAL
CROSS SWITCH PHASE																									CROSS SWITCH PHASE

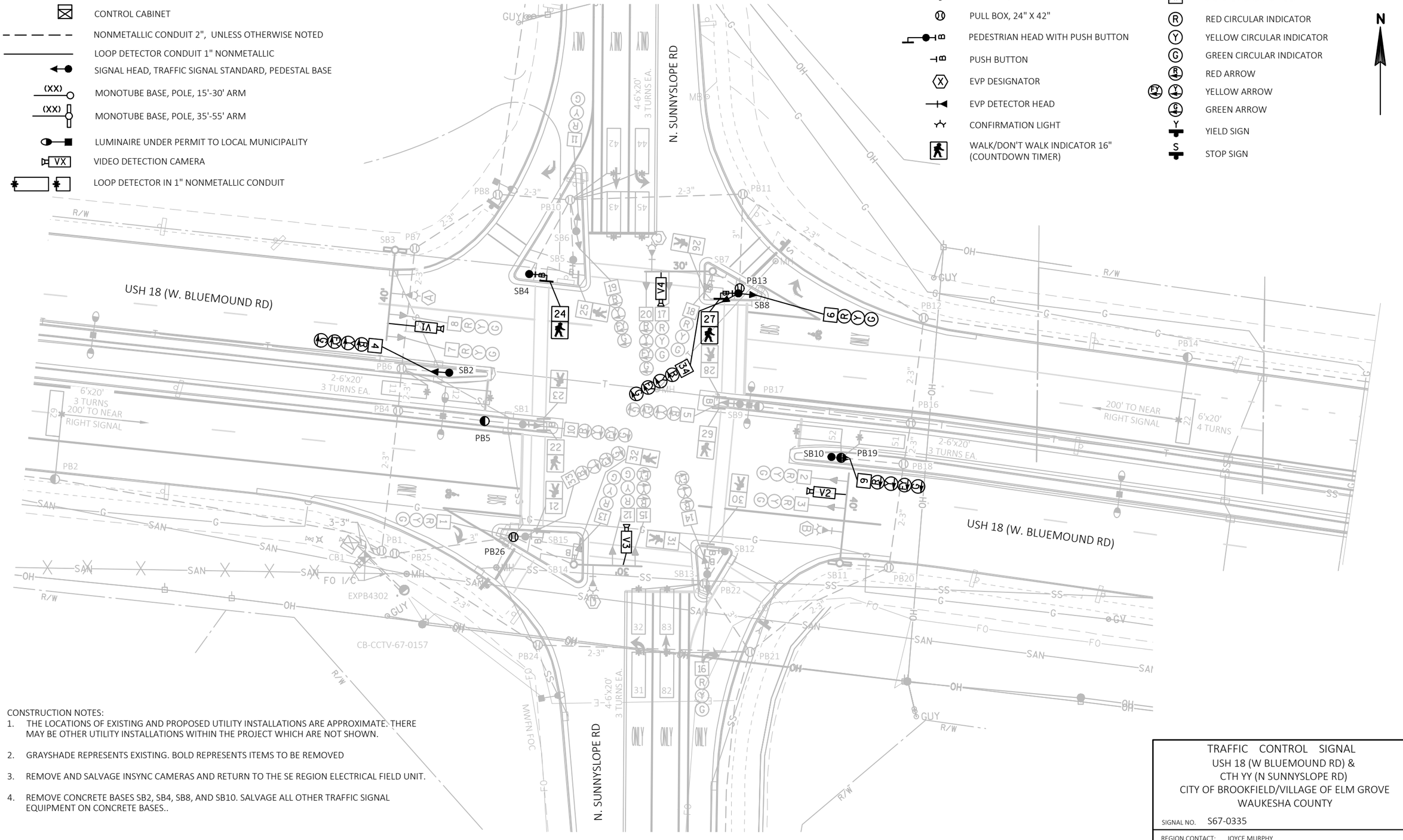
USH 18 (W BLUEMOUND RD) &
CTH O (N MOORLAND RD)/PILGRIM PKWY
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO: S67-0107 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 02/23 PAGE NUMBER: 4 OF 4

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- VX VIDEO DETECTION CAMERA
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN

N



CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED
3. REMOVE AND SALVAGE INSYNC CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.
4. REMOVE CONCRETE BASES SB2, SB4, SB8, AND SB10. SALVAGE ALL OTHER TRAFFIC SIGNAL EQUIPMENT ON CONCRETE BASES..

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
CTH YY (N SUNNYSLOPE RD)
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0335

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 255 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0335_R5-REM.DWG
LAYOUT NAME - S67-0335_R5_pg1

PLOT DATE : 1/12/2023 9:05 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

2

LEGEND

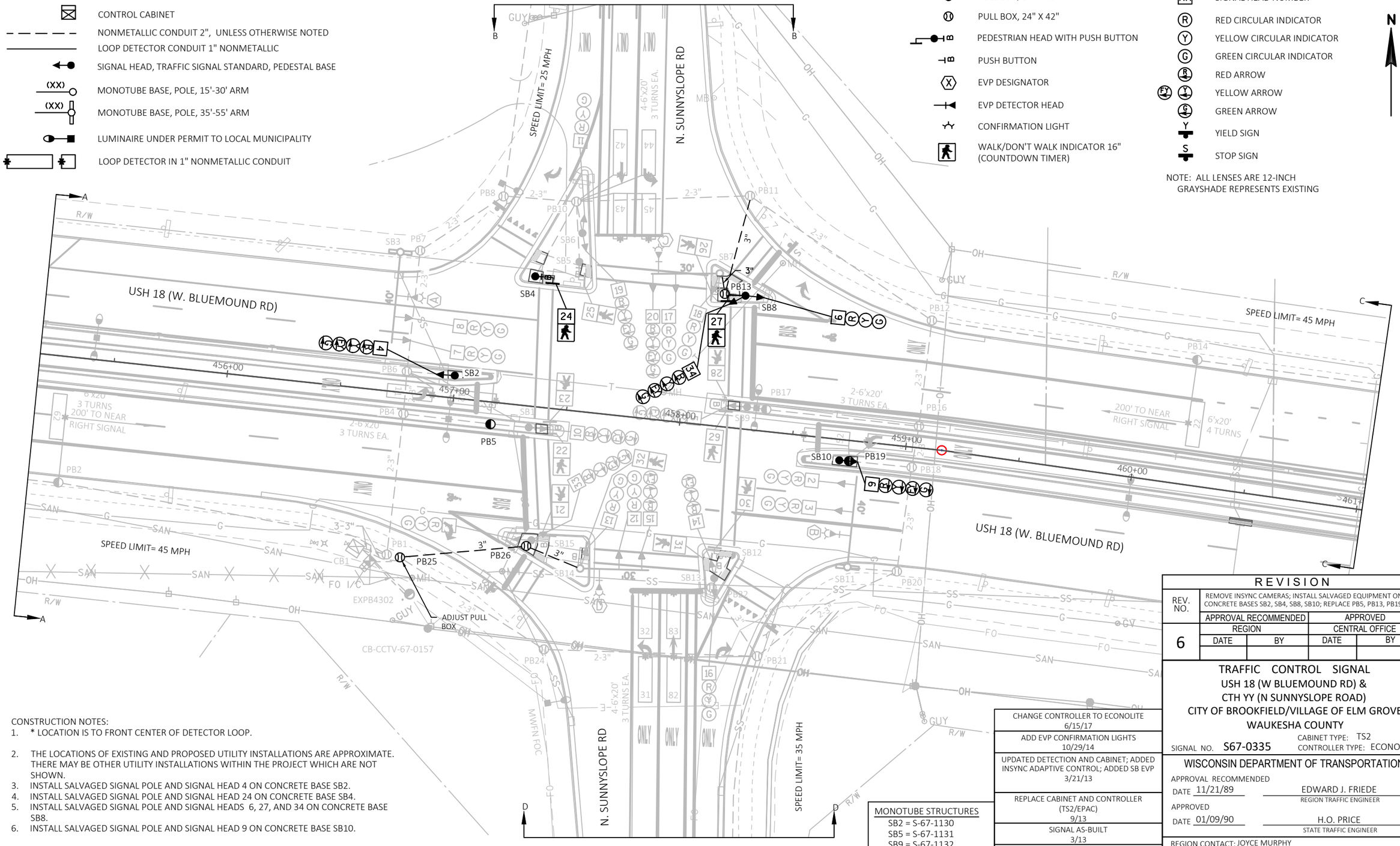
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)

- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. INSTALL SALVAGED SIGNAL POLE AND SIGNAL HEAD 4 ON CONCRETE BASE SB2.
4. INSTALL SALVAGED SIGNAL POLE AND SIGNAL HEAD 24 ON CONCRETE BASE SB4.
5. INSTALL SALVAGED SIGNAL POLE AND SIGNAL HEADS 6, 27, AND 34 ON CONCRETE BASE SB8.
6. INSTALL SALVAGED SIGNAL POLE AND SIGNAL HEAD 9 ON CONCRETE BASE SB10.

MONOTUBE STRUCTURES
SB2 = S-67-1130
SB5 = S-67-1131
SB9 = S-67-1132
SB13 = S-67-1133

CHANGE CONTROLLER TO ECONOLITE 6/15/17
ADD EVP CONFIRMATION LIGHTS 10/29/14
UPDATED DETECTION AND CABINET; ADDED INSYNC ADAPTIVE CONTROL; ADDED SB EVP 3/21/13
REPLACE CABINET AND CONTROLLER (TS2/EPAC) 9/13
SIGNAL AS-BUILT 3/13
SIGNAL RECONSTRUCTION 7/10

REVISION

REV. NO.	REMOVE INSYNC CAMERAS; INSTALL SALVAGED EQUIPMENT ON NEW CONCRETE BASES SB2, SB4, SB8, SB10; REPLACE PB5, PB13, PB19, PB26			
	APPROVAL RECOMMENDED		APPROVED	
6	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
CTH YY (N SUNNYSLOPE ROAD)
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0335
CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 11/21/89 — EDWARD J. FRIEDE, REGION TRAFFIC ENGINEER

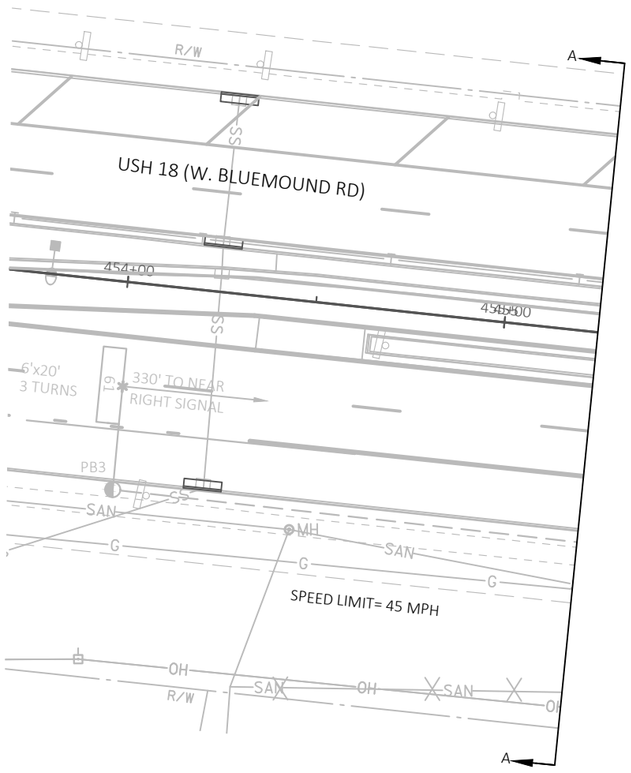
APPROVED
DATE 01/09/90 — H.O. PRICE, STATE TRAFFIC ENGINEER

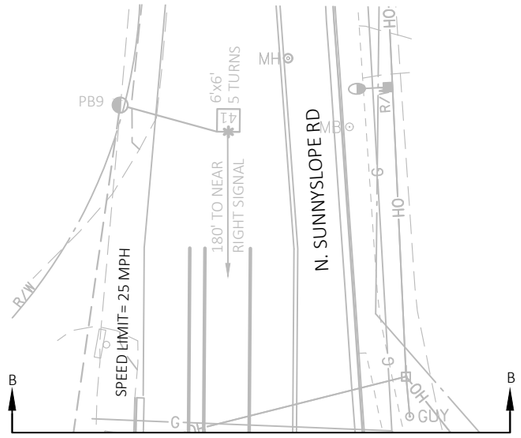
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

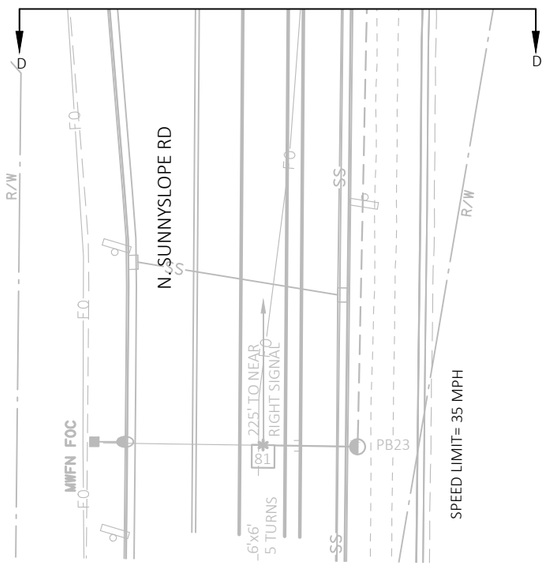
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 256 E

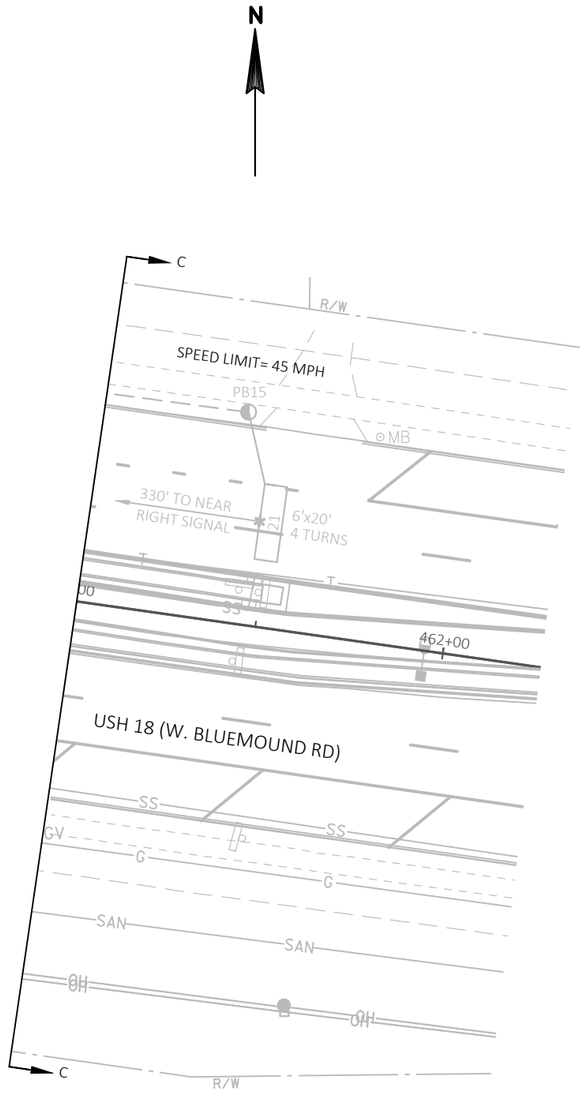
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0335_R6_18.DWG
LAYOUT NAME - S67-0335_R5_pg1
PLOT DATE : 2/1/2023 10:04 AM
PLOT BY : UTIC, ANDY
PLOT NAME :
PLOT SCALE : ##########

2









TRAFFIC CONTROL SIGNAL
USH 18 (W BLUEMOUND RD) &
CTY YY (N SUNNYSLOPE ROAD)
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0335

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

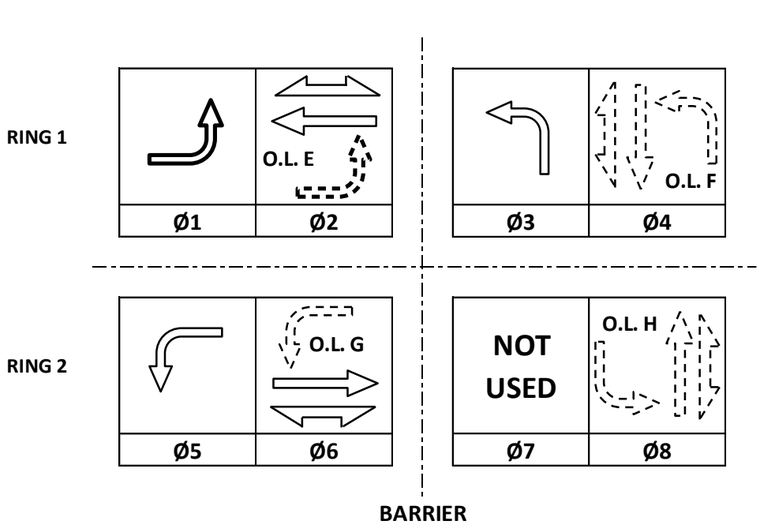
PAGE 2 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 257 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0335_R6_18.DWG
LAYOUT NAME - S67-0335_R5_pg2

PLOT DATE : 1/12/2023 10:08 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	4,5,34	-
Ø2	6,7,8	R
Ø3	19,20	-
Ø4	11,12,13	R
Ø5	9,10,33	-
Ø6	1,2,3	R
Ø7		
Ø8	16,17,18	R
Ø2P	25,26	
Ø4P	21,22,23,24	
Ø6P	31,32	
Ø8P	27,28,29,30	
OLE	4,5,34	R ←
OLF	19,20	R ←
OLG	9,10,33	R ←
OLH	14,15	R ←



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7				
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+8	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+8 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 00-43

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	31	41	43	45	52	62
CALLED PHASE	1	2	3	4	4	4	5	6
CALL OPTION	X	X	X		X	X	X	X
DELAY TIME			X			X		
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME				X				
USE ADDED INITIAL		X						X
CROSS SWITCH PHASE	2		4				6	

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	82							
CALLED PHASE	8							
CALL OPTION	X							
DELAY TIME								
EXTENTION OPTION	X							
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	32	42	44	51	61	81
CALLED PHASE	1	2	3	4	4	5	6	8
CALL OPTION	X	X	X	X	X	X	X	
DELAY TIME			X		X			
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								X
USE ADDED INITIAL		X					X	
CROSS SWITCH PHASE	2		4			6		

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	83							
CALLED PHASE	8							
CALL OPTION	X							
DELAY TIME								
EXTENTION OPTION	X							
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

USH 18 (W. BLUEMOUND RD) & CTH YY (N. SUNNYSLOPE RD)
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY
SIGNAL NO: S67-0335 CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 2/2023 PAGE NO. 3 OF 3

PROJECT ID:	2200-20-70
INTERSECTION:	USH 18 (W BLUEMOUND RD) & CTH YY (N SUNNYSLOPE RD)

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK	
SB1	*15*	*10*				*RED/BLK*	*ORG/BLK*	*GRN/BLK*	*BLK/WHT*			
		22								*BLK*	*BLU*	
		23								*RED/WHT*	*GRN/WHT*	
		B										*WHT/BLK*
SB2	*12*	*4*				*RED/BLK*	*ORG/BLK*	*GRN/BLK*	*BLK/WHT*			
SB3	*12*	*7*	*RED*	*ORG*	*GRN*							
		8	*RED*	*ORG*	*GRN*							
SB4	*7*	*24*								*BLK*	*BLU*	
		B										*WHT/BLK*
SB5	*7*	*25*								*BLK*	*BLU*	
		B										*WHT/BLK*
SB6	*12*	*11*	*RED*	*ORG*	*GRN*							
		19				*RED/BLK*	*ORG/BLK*	*GRN/BLK*	*BLK/WHT*			
SB7	*15*	*17*	*RED*	*ORG*	*GRN*							
		18	*RED*	*ORG*	*GRN*							
		20				*RED/BLK*	*ORG/BLK*	*GRN/BLK*	*BLK/WHT*			
		26								*BLK*	*BLU*	
		B										*WHT/BLK*
SB8	*12*	*6*	*RED*	*ORG*	*GRN*							
		27								*BLK*	*BLU*	
		34				*RED/BLK*	*ORG/BLK*	*GRN/BLK*	*BLK/WHT*			
		B										*WHT/BLK*
SB9	*15*	*5*				*RED/BLK*	*ORG/BLK*	*GRN/BLK*	*BLK/WHT*			
		28								*BLK*	*BLU*	
		29								*RED/WHT*	*GRN/WHT*	
		B										*WHT/BLK*
SB10	*12*	*9*				*RED/BLK*	*ORG/BLK*	*GRN/BLK*	*BLK/WHT*			
SB11	*12*	*2*	*RED*	*ORG*	*GRN*							
		3	*RED*	*ORG*	*GRN*							
SB12	*7*	*30*								*BLK*	*BLU*	
		B										*WHT/BLK*
SB13	*5*	*14*				*RED/BLK*	*ORG/BLK*		*BLK/WHT*			
		16	*RED*	*ORG*	*GRN*							
		31								*BLK*	*BLU*	
		B										*WHT/BLK*
SB14	*15*	*12*	*RED*	*ORG*	*GRN*							
		13	*RED*	*ORG*	*GRN*							
		15				*RED/BLK*	*ORG/BLK*		*BLK/WHT*			
		32								*BLK*	*BLU*	
		B										*WHT/BLK*
SB15	*12*	*1*	*RED*	*ORG*	*GRN*							
		21								*BLK*	*BLU*	
		33				*RED/BLK*	*ORG/BLK*	*GRN/BLK*	*BLK/WHT*			
		B										*WHT/BLK*

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	*SB1*
SB1	*SB2*
SB2	*SB3*
SB3	*SB4*
SB4	*SB5*
SB5	*SB6*
SB6	*SB7*
SB7	*SB8*
SB8	*SB9*
SB9	*SB10*
SB10	*SB11*
SB11	*SB12*
SB12	*SB13*
SB13	*SB14*
SB14	*SB15*
SB15	*CB1*

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
CB1	*PB1*
SB1	*PB4*
SB1	**PB5**
SB2	*PB6*
SB3	*PB7*
SB3	*PB8*
SB6	*PB10*
SB6	*PB11*
SB8	*PB12*
SB8	**PB13**
SB9	*PB16*
SB9	*PB17*
SB10	*PB18*
SB10	**PB19**
SB11	*PB20*
SB11	*PB21*
SB13	*PB22*
CB1	*PB24*
CB1	*PB25*
SB15	**PB26**

Emergency Vehicle Preemption	
From	To
CB1	*HEAD A (SB3)*
CB1	*HEAD B (SB11)*
CB1	*HEAD C (SB7)*
CB1	*HEAD D (SB14)*

Confirmation Beacon Cable Traffic Signal 3-14 AWG	
From	To
CB1	*HEAD A (SB3)*
CB1	*HEAD B (SB11)*
CB1	*HEAD C (SB7)*
CB1	*HEAD D (SB14)*

******Grayshade* **represents existing cable. Bold represents new cable to be installed with the project.**
***Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications**
***Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.**
***Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.**

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- VX VIDEO DETECTION CAMERA
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- PEDESTRIAN HEAD WITH ACCESSIBLE PEDESTRIAN PUSH BUTTON
- ACCESSIBLE PEDESTRIAN PUSH BUTTON
- CONFIRMATION LIGHT
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN
- S STOP SIGN

N

USH 18 (W BLUEMOUND RD)

ELM GROVE RD

CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
3. REMOVE CONCRETE BASE SB6. SALVAGE ALL OTHER TRAFFIC SIGNAL EQUIPMENT.
4. REMOVE AND SALVAGE INSYNC CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.

TRAFFIC CONTROL SIGNAL
USH 18 (W. BLUEMOUND RD) &
ELM GROVE RD
CITY OF BROOKFIELD &
VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0126

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 260 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0126_R7_14-16-REM.DWG
LAYOUT NAME - S67-0126_R7_pg1

PLOT DATE : 1/12/2023 9:05 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

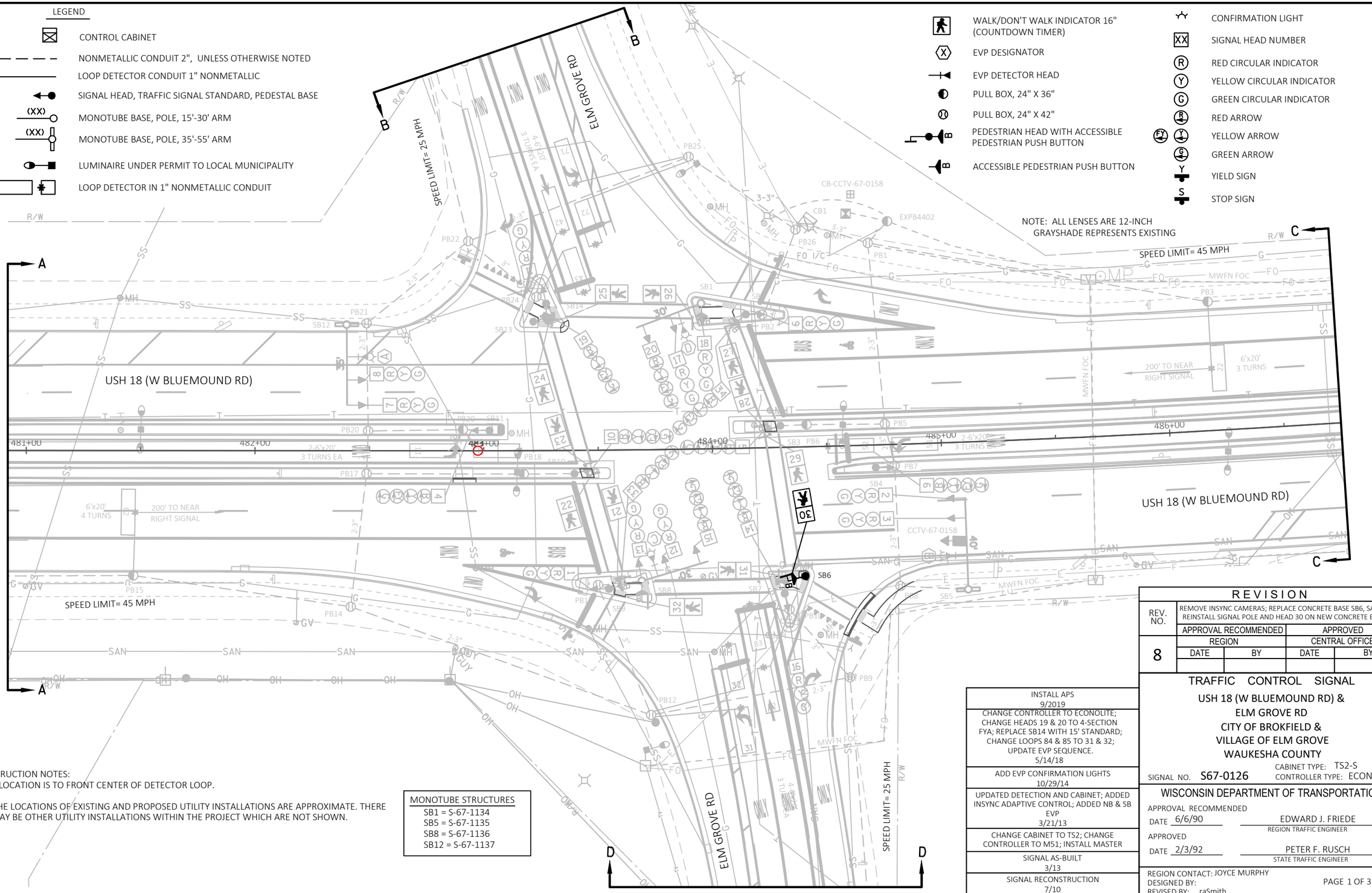
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LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- PEDESTRIAN HEAD WITH ACCESSIBLE PEDESTRIAN PUSH BUTTON
- ACCESSIBLE PEDESTRIAN PUSH BUTTON
- CONFIRMATION LIGHT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- YIELD SIGN
- STOP SIGN

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

MONOTUBE STRUCTURES
- SB1 = S-67-1134
- SB5 = S-67-1135
- SB8 = S-67-1136
- SB12 = S-67-1137

REVISION				
REV. NO.	REMOVE INSYNC CAMERAS; REPLACE CONCRETE BASE SB6, SALVAGE & REINSTALL SIGNAL POLE AND HEAD 30 ON NEW CONCRETE BASE SB6			
	APPROVAL RECOMMENDED		APPROVED	
8	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

INSTALL APS 9/2019
CHANGE CONTROLLER TO ECONOLITE; CHANGE HEADS 19 & 20 TO 4-SECTION FYA; REPLACE SB14 WITH 15' STANDARD; CHANGE LOOPS 84 & 85 TO 31 & 32; UPDATE EVP SEQUENCE. 5/14/18
ADD EVP CONFIRMATION LIGHTS 10/29/14
UPDATED DETECTION AND CABINET; ADDED INSYNC ADAPTIVE CONTROL; ADDED NB & SB EVP 3/21/13
CHANGE CABINET TO TS2; CHANGE CONTROLLER TO M51; INSTALL MASTER
SIGNAL AS-BUILT 3/13
SIGNAL RECONSTRUCTION 7/10

TRAFFIC CONTROL SIGNAL

USH 18 (W BLUEMOUND RD) &
ELM GROVE RD
CITY OF BROKFIELD &
VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0126
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 6/6/90 — EDWARD J. FRIEDE, REGION TRAFFIC ENGINEER

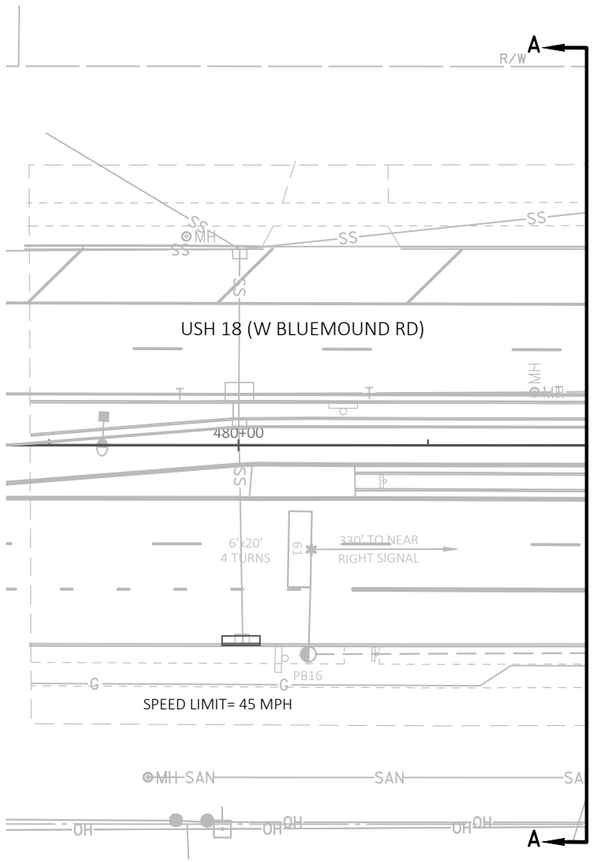
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DATE 2/3/92 — PETER F. RUSCH, STATE TRAFFIC ENGINEER

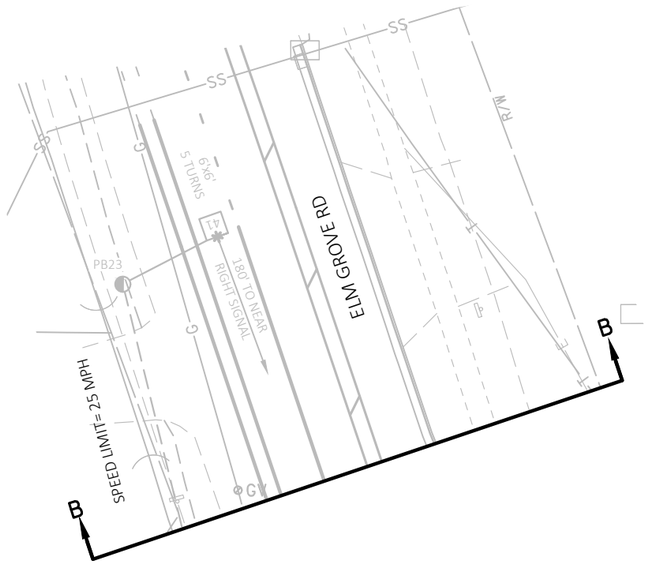
REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

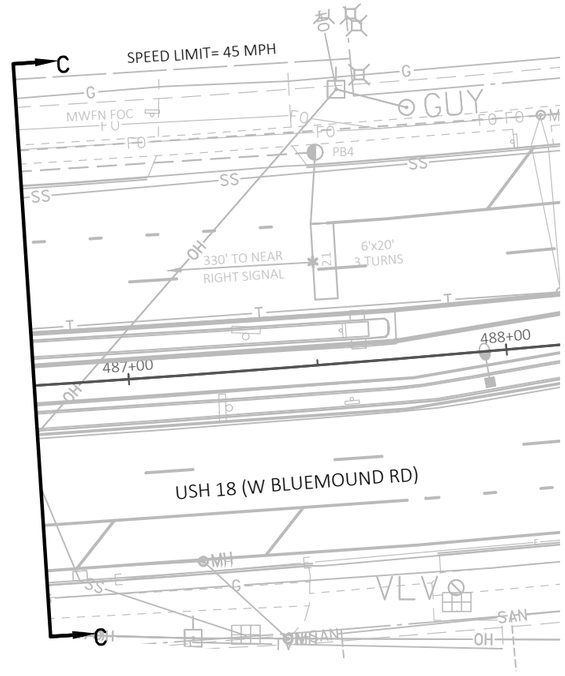
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 261 E

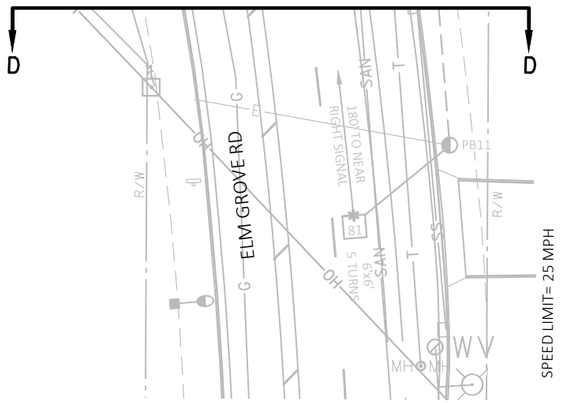
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0126_R8_18.DWG
LAYOUT NAME - S67-0126_R7_pg1

PLOT DATE : 2/1/2023 10:16 AM PLOT BY : UTIC, ANDY PLOT NAME : PLOT SCALE : ##########









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TRAFFIC CONTROL SIGNAL

USH 18 (W. BLUEMOUND RD) &
ELM GROVE RD
CITY OF BROOKFIELD
VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0126

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

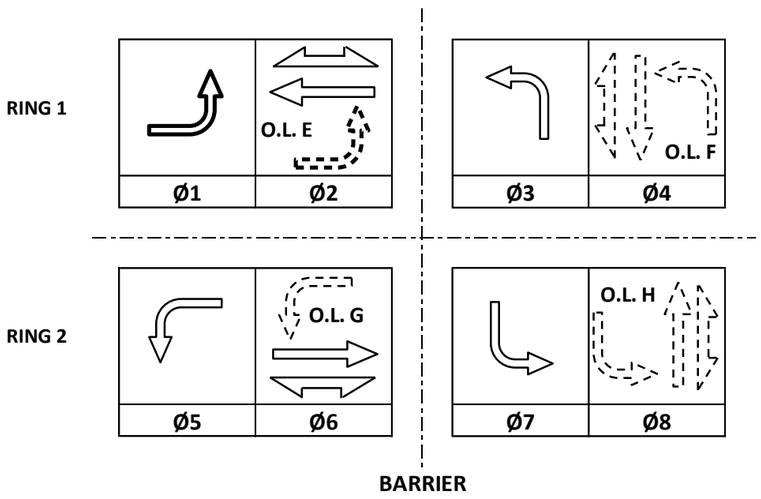
PAGE 2 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 262 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\S67-0126_R8_18.DWG
LAYOUT NAME - S67-0126_R7_pg2

PLOT DATE : 1/12/2023 10:03 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	4,5,34	-
Ø2	6,7,8	R
Ø3	19,20	-
Ø4	11,12,13	R
Ø5	9,10,33	-
Ø6	1,2,3	R
Ø7	14,15	-
Ø8	16,17,18	R
Ø2P	25,26	
Ø4P	21,22,23,24	
Ø6P	31,32	
Ø8P	27,28,29,30	
OLE	4,5,34	R ←
OLF	19,20	R ←
OLG	9,10,33	R ←
OLH	14,15	R ←



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 67-0043

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	31	41	43	52	62	72
CALLED PHASE	1	2	3	4	4	5	6	7
CALL OPTION	X	X	X		X	X	X	X
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME				X				
USE ADDED INITIAL		X					X	
CROSS SWITCH PHASE	2		4			6		8

DETECTOR INPUT	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	82								PLAN LOOP DETECTOR*(S)
CALLED PHASE	8								CALLED PHASE
CALL OPTION	X								CALL OPTION
DELAY TIME									DELAY TIME
EXTENTION OPTION	X								EXTENTION OPTION
EXTEND TIME									EXTEND TIME
USE ADDED INITIAL									USE ADDED INITIAL
CROSS SWITCH PHASE									CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	32	42	51	61	71	81
CALLED PHASE	1	2	3	4	5	6	7	8
CALL OPTION	X	X	X	X	X	X	X	
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								X
USE ADDED INITIAL		X				X		
CROSS SWITCH PHASE	2		4		6		8	

DETECTOR INPUT	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	83								PLAN LOOP DETECTOR*(S)
CALLED PHASE	8								CALLED PHASE
CALL OPTION	X								CALL OPTION
DELAY TIME									DELAY TIME
EXTENTION OPTION	X								EXTENTION OPTION
EXTEND TIME									EXTEND TIME
USE ADDED INITIAL									USE ADDED INITIAL
CROSS SWITCH PHASE									CROSS SWITCH PHASE

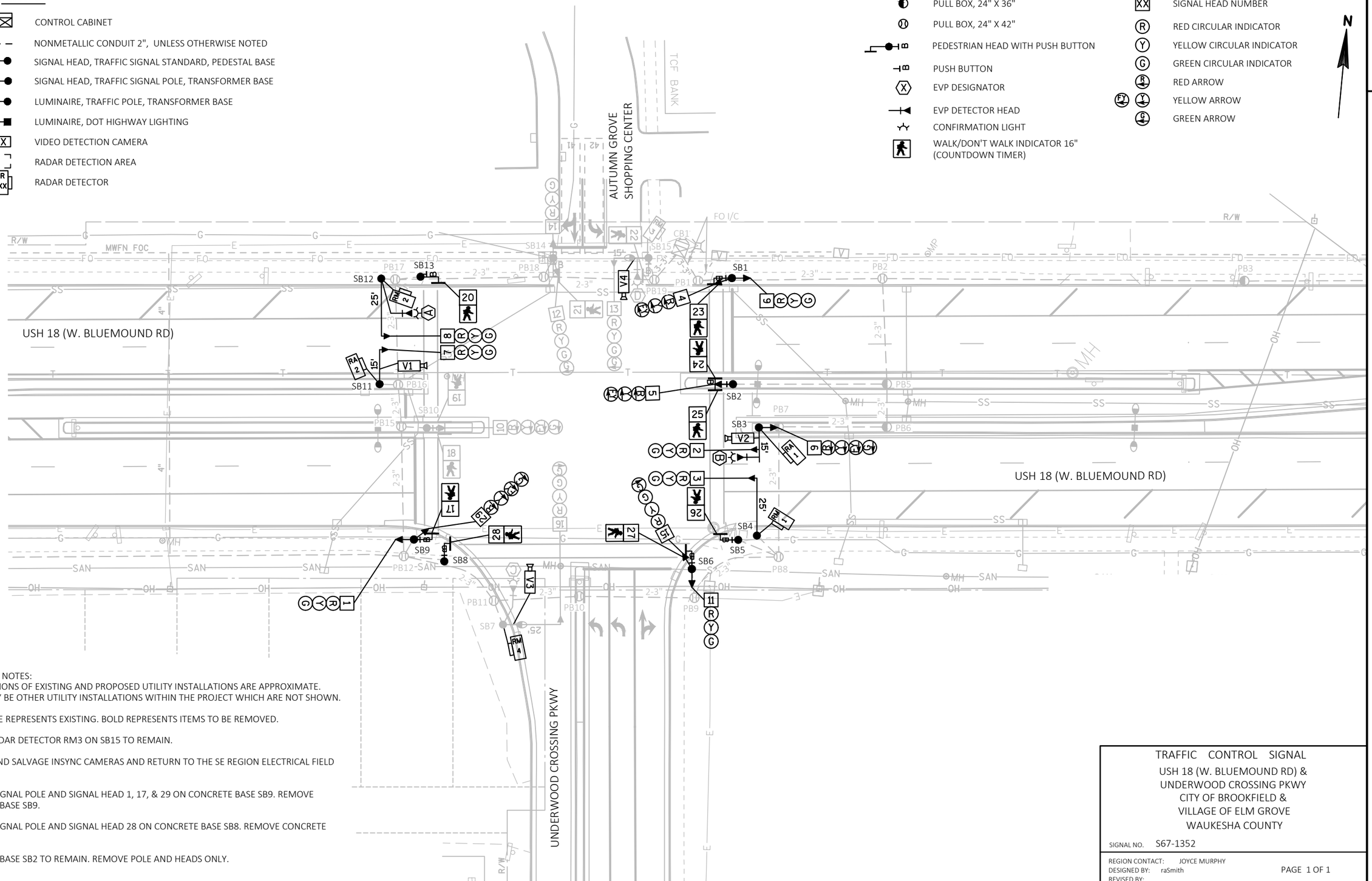
USH 18 (W. BLUEMOUND RD) & ELM GROVE RD
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO: S67-0126 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 2/2023 PAGE NO. 3 OF 3

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE, DOT HIGHWAY LIGHTING
- XX VIDEO DETECTION CAMERA
- RADAR DETECTION AREA
- R XX RADAR DETECTOR
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW

N



CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
3. MATRIX RADAR DETECTOR RM3 ON SB15 TO REMAIN.
4. REMOVE AND SALVAGE INSYNC CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.
5. SALVAGE SIGNAL POLE AND SIGNAL HEAD 1, 17, & 29 ON CONCRETE BASE SB9. REMOVE CONCRETE BASE SB9.
6. SALVAGE SIGNAL POLE AND SIGNAL HEAD 28 ON CONCRETE BASE SB8. REMOVE CONCRETE BASE SB8.
7. CONCRETE BASE SB2 TO REMAIN. REMOVE POLE AND HEADS ONLY.

TRAFFIC CONTROL SIGNAL

USH 18 (W. BLUEMOUND RD) &
UNDERWOOD CROSSING PKWY
CITY OF BROOKFIELD &
VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-1352

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 264 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024001-SR.DWG
LAYOUT NAME - S67-1352_R5_pg1

PLOT DATE : 1/13/2023 9:18 AM PLOT BY : UTIC, ANDY PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

LEGEND

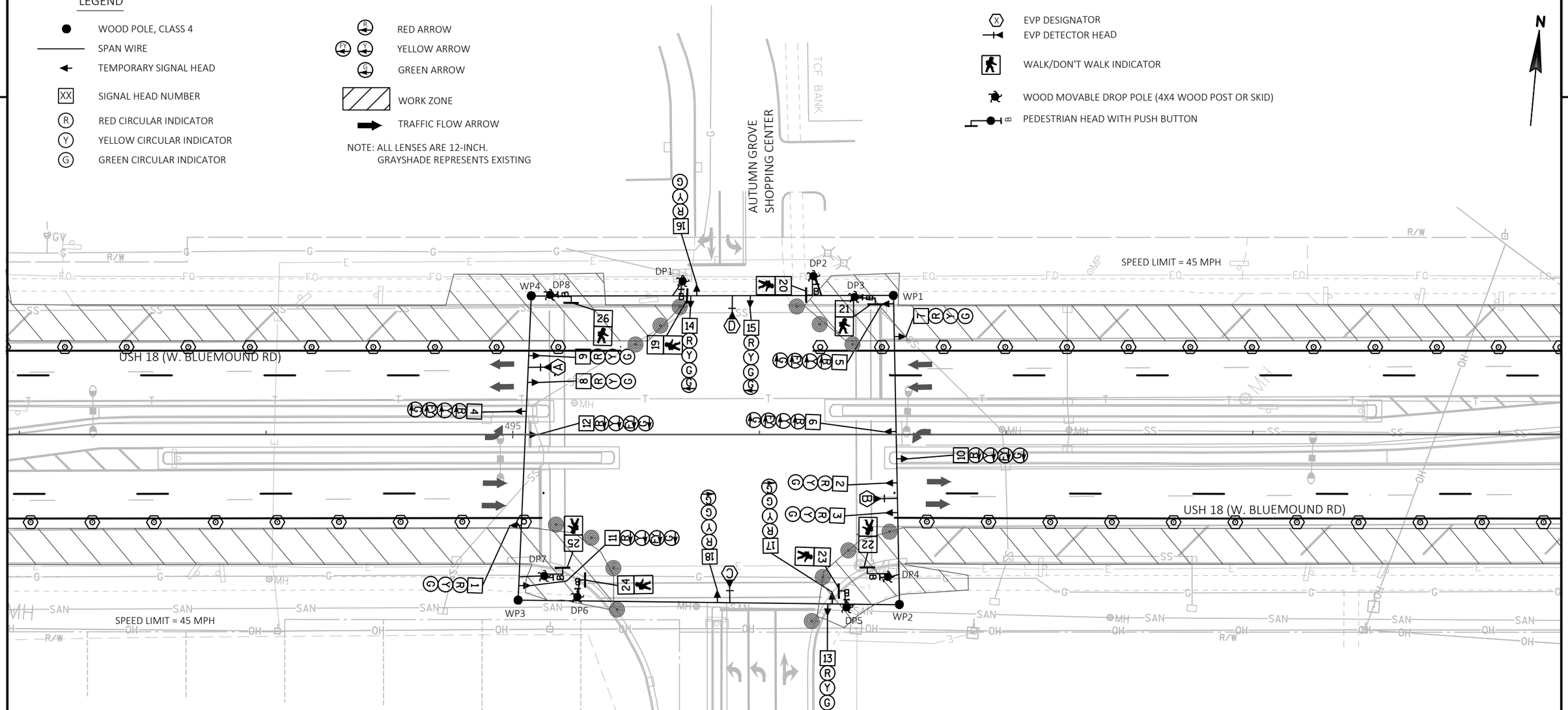
- WOOD POLE, CLASS 4
- SPAN WIRE
- TEMPORARY SIGNAL HEAD
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW
- WORK ZONE
- TRAFFIC FLOW ARROW

NOTE: ALL LENSES ARE 12-INCH.
GRAYSHADE REPRESENTS EXISTING

- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- WALK/DON'T WALK INDICATOR
- WOOD MOVABLE DROP POLE (4X4 WOOD POST OR SKID)
- B PEDESTRIAN HEAD WITH PUSH BUTTON

N

2



CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS, AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
2. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF THE CURB TO THE SIDE OF THE POST OR POLE.
3. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
4. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
5. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
6. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.

SUMMARY OF MATERIALS
(FOR INFORMATION ONLY)

QUANTITY	UNIT	DESCRIPTION
4	EA	CLASS 4 WOOD POLES
8	EA	WOOD MOVABLE DROP POLES
550	LF	SPAN WIRE
18	EA	SIGNAL HEADS
8	EA	PEDESTRIAN HEADS
4	EA	EVP DETECTOR HEADS

TRAFFIC CONTROL SIGNAL

USH 18 (W BLUEMOUND RD) &
UNDERWOOD CROSSING PKWY
CITY OF BROOKFIELD &
VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. T67-1352
CABINET TYPE: TEMP
CONTROLLER TYPE: TEMP

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION & STAGE 1	SHEET 265 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024201-ST_STG1_20.DWG
LAYOUT NAME - S67-1352_R5_pg1

PLOT DATE : 2/1/2023 9:54 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

LEGEND

- WOOD POLE, CLASS 4
- SPAN WIRE
- TEMPORARY SIGNAL HEAD
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW
- WORK ZONE
- TRAFFIC FLOW ARROW

NOTE: ALL LENSES ARE 12-INCH.
GRAYSHADE REPRESENTS EXISTING

- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- WALK/DON'T WALK INDICATOR
- WOOD MOVABLE DROP POLE (4X4 WOOD POST OR SKID)
- B PEDESTRIAN HEAD WITH PUSH BUTTON

N

AUTUMN GROVE SHOPPING CENTER

TCF BANK

USH 18 (W. BLUEMOUND RD)

SPEED LIMIT = 45 MPH

UNDERWOOD CROSSING PKWY

WP1 WP2 WP3 WP4

DP1 DP2 DP3 DP4 DP5 DP6 DP7 DP8

TRAFFIC CONTROL SIGNAL	
USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PKWY	
CITY OF BROOKFIELD & VILLAGE OF ELM GROVE	
WAUKESHA COUNTY	
SIGNAL NO. T67-1352	CABINET TYPE: TEMP
	CONTROLLER TYPE: TEMP
REGION CONTACT: JOYCE MURPHY	
DESIGNED BY: raSmith	PAGE 2 OF 3
REVISED BY:	

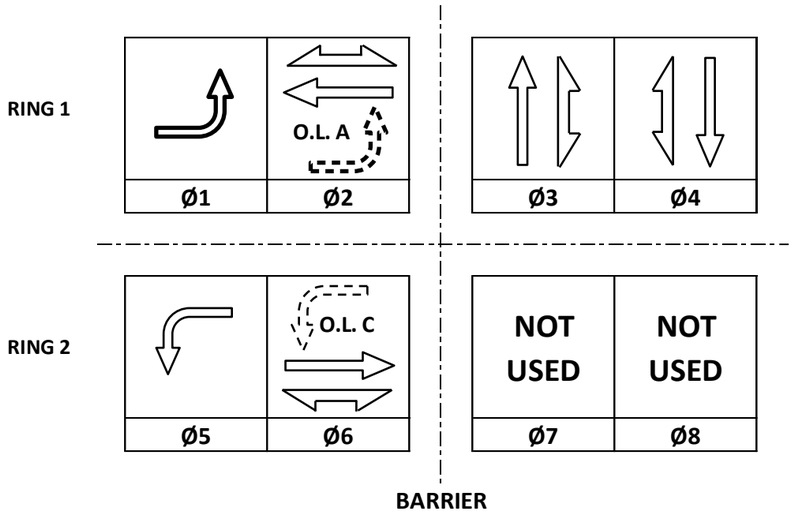
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 266 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024201-ST_STG2_20.DWG
LAYOUT NAME - S67-1352_R5_pg1

PLOT DATE : 2/1/2023 9:54 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5,6	-
Ø2	7,8,9	R
Ø3	13,14,15	-
Ø4	16,17,18	R
Ø5	10,11,12	-
Ø6	1,2,3	R
Ø7		
Ø8		
Ø2P	19,20	
Ø3P	21,22	
Ø4P	25,26	
Ø6P	23,24	
OLA	4,5,6	-
OLB		
OLC	10,11,12	-
OLD		





CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1	X	6	MAX	X
2	X	6	MAX	X
3	X		MAX	X
4	X		MAX	X
5	X	2	MAX	X
6	X	2	MAX	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4	3

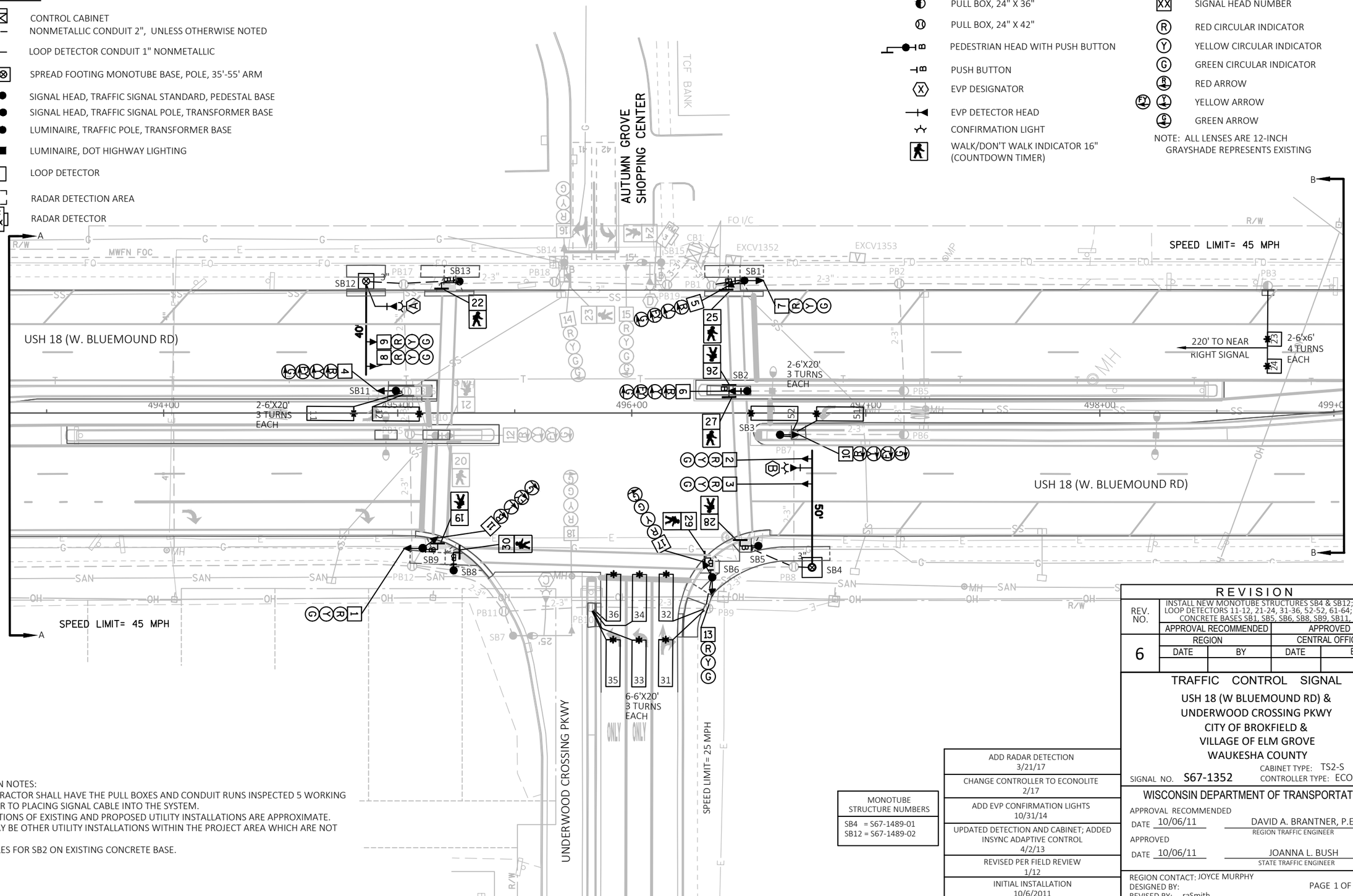
AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 3, CONTROLLER SHALL RETURN TO PHASE 3.
AFTER PREEMPTION SEQUENCE 4, CONTROLLER SHALL RETURN TO PHASE 4.

USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PKWY
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY
SIGNAL NO: T67-1352 CABINET TYPE: TEMP
CONTROLLER TYPE: TEMP
DATE: 2/2023 PAGE NO. 3 OF 3

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- (XX) SPREAD FOOTING MONOTUBE BASE, POLE, 35'-55' ARM
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE, DOT HIGHWAY LIGHTING
- LOOP DETECTOR
- RADAR DETECTION AREA
- R XX RADAR DETECTOR
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
3. PLACE POLES FOR SB2 ON EXISTING CONCRETE BASE.

MONOTUBE STRUCTURE NUMBERS
SB4 = S67-1489-01
SB12 = S67-1489-02

REVISION
ADD RADAR DETECTION 3/21/17
CHANGE CONTROLLER TO ECONOLITE 2/17
ADD EVP CONFIRMATION LIGHTS 10/31/14
UPDATED DETECTION AND CABINET; ADDED INSYNC ADAPTIVE CONTROL 4/2/13
REVISED PER FIELD REVIEW 1/12
INITIAL INSTALLATION 10/6/2011

REV. NO.	INSTALL NEW MONOTUBE STRUCTURES SB4 & SB12; INSTALL LOOP DETECTORS 11-12, 21-24, 31-36, 52-52, 61-64; REPLACE CONCRETE BASES SB1, SB5, SB6, SB8, SB9, SB11, SB13			
	APPROVAL RECOMMENDED		APPROVED	
6	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL

USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PKWY
CITY OF BROKFIELD & VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-1352
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

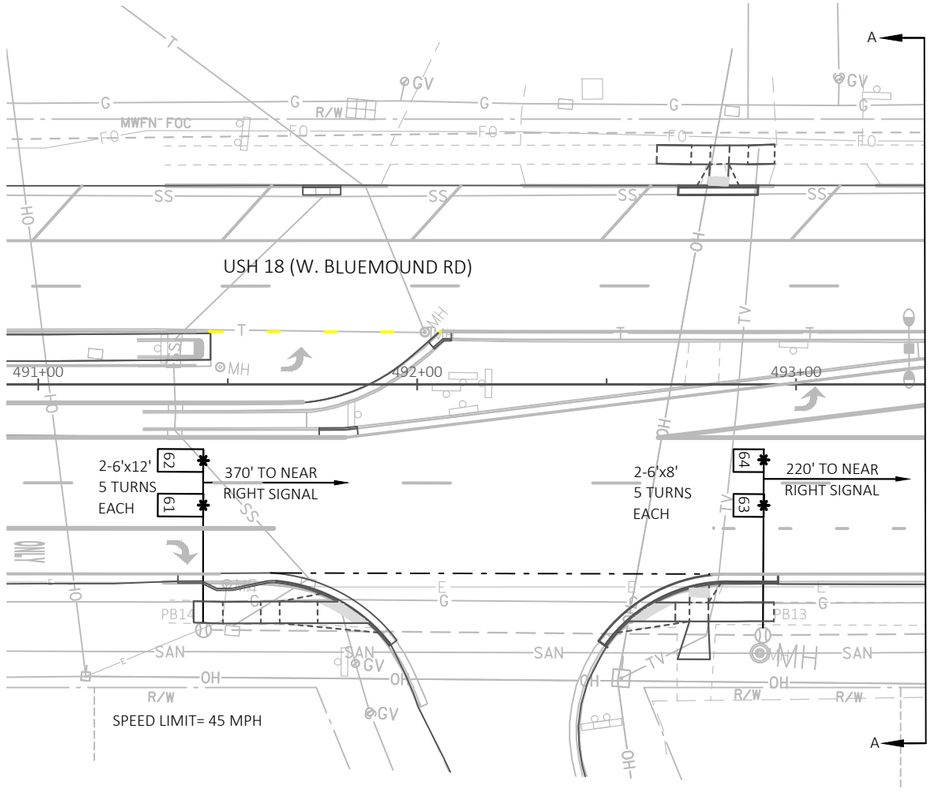
APPROVAL RECOMMENDED
DATE 10/06/11 — DAVID A. BRANTNER, P.E. — REGION TRAFFIC ENGINEER

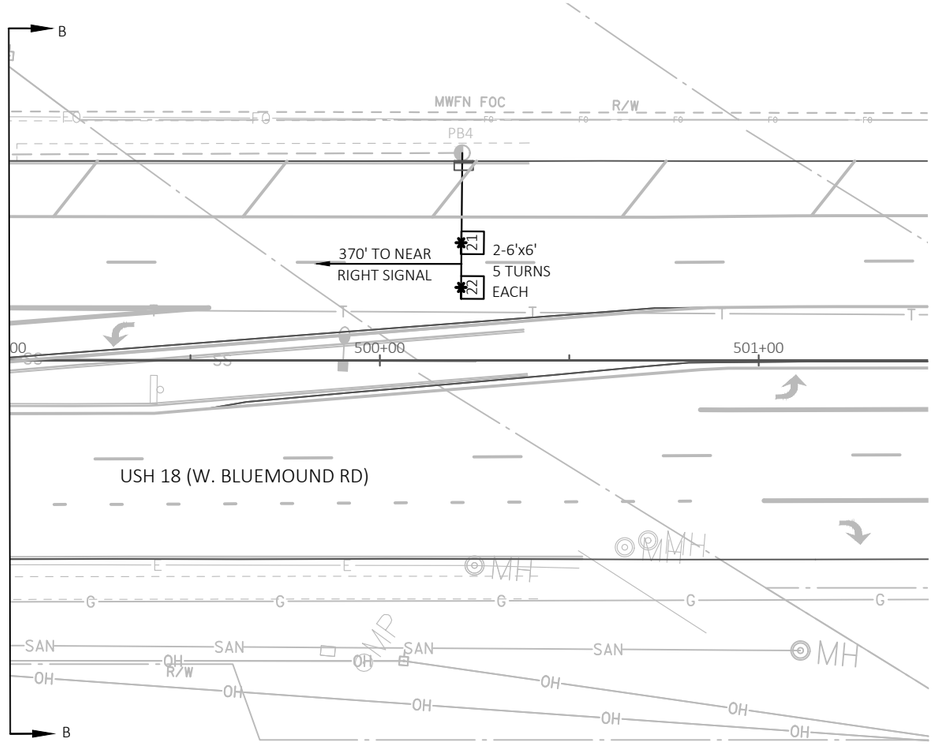
APPROVED
DATE 10/06/11 — JOANNA L. BUSH — STATE TRAFFIC ENGINEER

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 268 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024201-SP_18.DWG
LAYOUT NAME - S67-1352_R6_pg1
PLOT DATE : 2/1/2023 9:06 AM
PLOT BY : UTIC, ANDY
PLOT NAME :
PLOT SCALE : ##########





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2

TRAFFIC CONTROL SIGNAL

USH 18 (W. BLUEMOUND RD) &
UNDERWOOD CROSSING PKWY
CITY OF BROOKFIELD
VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-1352

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

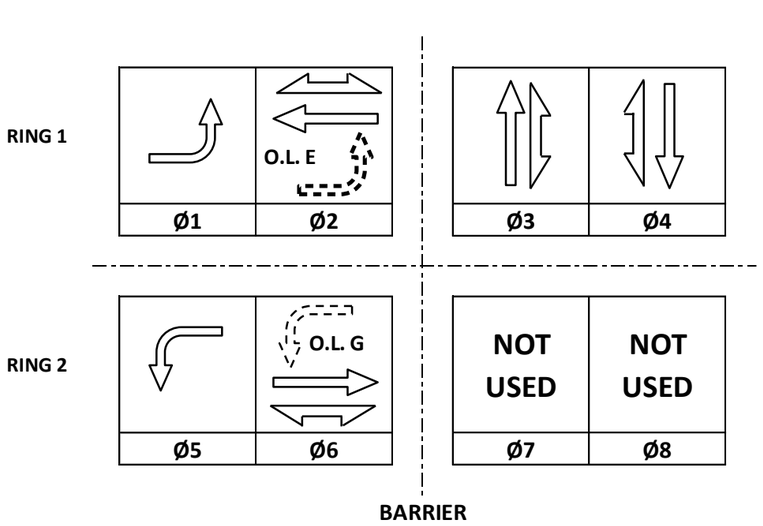
PAGE 2 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 269	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024201-SP_18.DWG
LAYOUT NAME - S67-1352_R6_pg2

PLOT DATE : 2/1/2023 9:58 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	4,5,6	R ←
Ø2	7,8,9	R
Ø3	13,14,15	R
Ø4	16,17,18	R
Ø5	10,11,12	R ←
Ø6	1,2,3	R
Ø7		
Ø8		
Ø2P	23,24	
Ø3P	25,26,27,28	
Ø4P	19,20,21,22	
Ø6P	29,30	
OLE	4,5,6	-
OLF		
OLG	10,11,12	-
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				X
4				X
5		2		X
6	X	2	MIN	X
7				
8				

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4	3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4, CONTROLLER SHALL RETURN TO PHASE 4.
AFTER PREEMPTION SEQUENCE 3, CONTROLLER SHALL RETURN TO PHASE 3.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 67-0043

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
CONFIRMATION LIGHTS	X
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	17	19	21	23	25	27	29	31
PLAN LOOP DETECTOR*(S)	11	21	23	31	33/34	51	61	63
CALLED PHASE	1	2	2	3	3	5	6	6
CALL OPTION	X	X	X	X	X	X	X	X
DELAY TIME				X				
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								
USE ADDED INITIAL		X	X				X	X
CROSS SWITCH PHASE	2					6		

49	51	53	55	57	59	61	63	DETECTOR INPUT
41								PLAN LOOP DETECTOR*(S)
4								CALLED PHASE
X								CALL OPTION
X								DELAY TIME
X								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	18	20	22	24	26	28	30	32
PLAN LOOP DETECTOR*(S)	12	22	24	32	35/36	52	62	64
CALLED PHASE	1	2	2	3	3	5	6	6
CALL OPTION	X	X	X	X	X	X	X	X
DELAY TIME				X				
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								
USE ADDED INITIAL		X	X				X	X
CROSS SWITCH PHASE	2					6		

50	52	54	56	58	60	62	64	DETECTOR INPUT
42								PLAN LOOP DETECTOR*(S)
4								CALLED PHASE
X								CALL OPTION
X								DELAY TIME
X								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

GENERAL NOTES:

1. PHASE 1 IS FOR EVP ONLY

USH 18 (W. BLUEMOUND RD) & UNDERWOOD CROSSING PKWY
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY
SIGNAL NO: S67-1352 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 2/2023 PAGE NO. 3 OF 3

FILE NAME : \\WKERTOVFILPI01\n3public\SPO\Operations\Signals\Databases\Signal Intersection Files\S67-1352\PLANS\Econolite SEQ.pptm PLOT DATE : 2/5/2020 5:00PM PLOT BY : WOLFORD, DERRIN PLOT NAME : _____ PLOT SCALE : 1:1

PROJECT ID:	2200-20-70
INTERSECTION:	USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PKWY

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED NEUTRAL	PED INPUT
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	12	5				RED	ORG	GRN	BLK/WHT				
		7	RED/BLK	ORG/BLK	GRN/BLK								
		25								BLK	BLU		
		BUTTON										WHT/BLK	BLU/BLK
SB2	12	6				RED	ORG	GRN	BLK/WHT				
		26								BLK	BLU		
		27								BLK	BLU		
		BUTTON										WHT/BLK	BLU/BLK
SB3	7	10				RED	ORG	GRN	BLK				
SB4	7	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
SB5	7	28								BLK	BLU		
		BUTTON										WHT/BLK	ORG
SB6	15	13	RED	ORG	GRN								
		17	RED/BLK	ORG/BLK	GRN/BLK			BLK/WHT					
		29								BLK	BLU		
		BUTTON										WHT/BLK	BLU/BLK
SB8	7	30								BLK	BLU		
		BUTTON										WHT/BLK	ORG
SB9	15	1	RED	ORG	GRN								
		11				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		19								BLK	BLU		
		BUTTON										WHT/BLK	BLU/BLK
SB11	7	4				RED	ORG	GRN	BLK				
SB12	7	8	RED	ORG	GRN								
		9	RED	ORG	GRN								
SB13	7	22								BLK	BLU		
		BUTTON										WHT/BLK	ORG

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	SB1
PB2	SB1
PB5	SB2
PB6	SB3
PB7	SB3
PB8	SB4
PB9	SB6
PB12	SB9
PB16	SB11
PB17	SB12

Emergency Vehicle Preemption	
From	To
CB1	HEAD A (SB12)
CB1	HEAD B (SB4)

Confirmation Beacon Cable Traffic Signal 3-14 AWG	
From	To
CB1	HEAD A (SB12)
CB1	HEAD B (SB4)

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

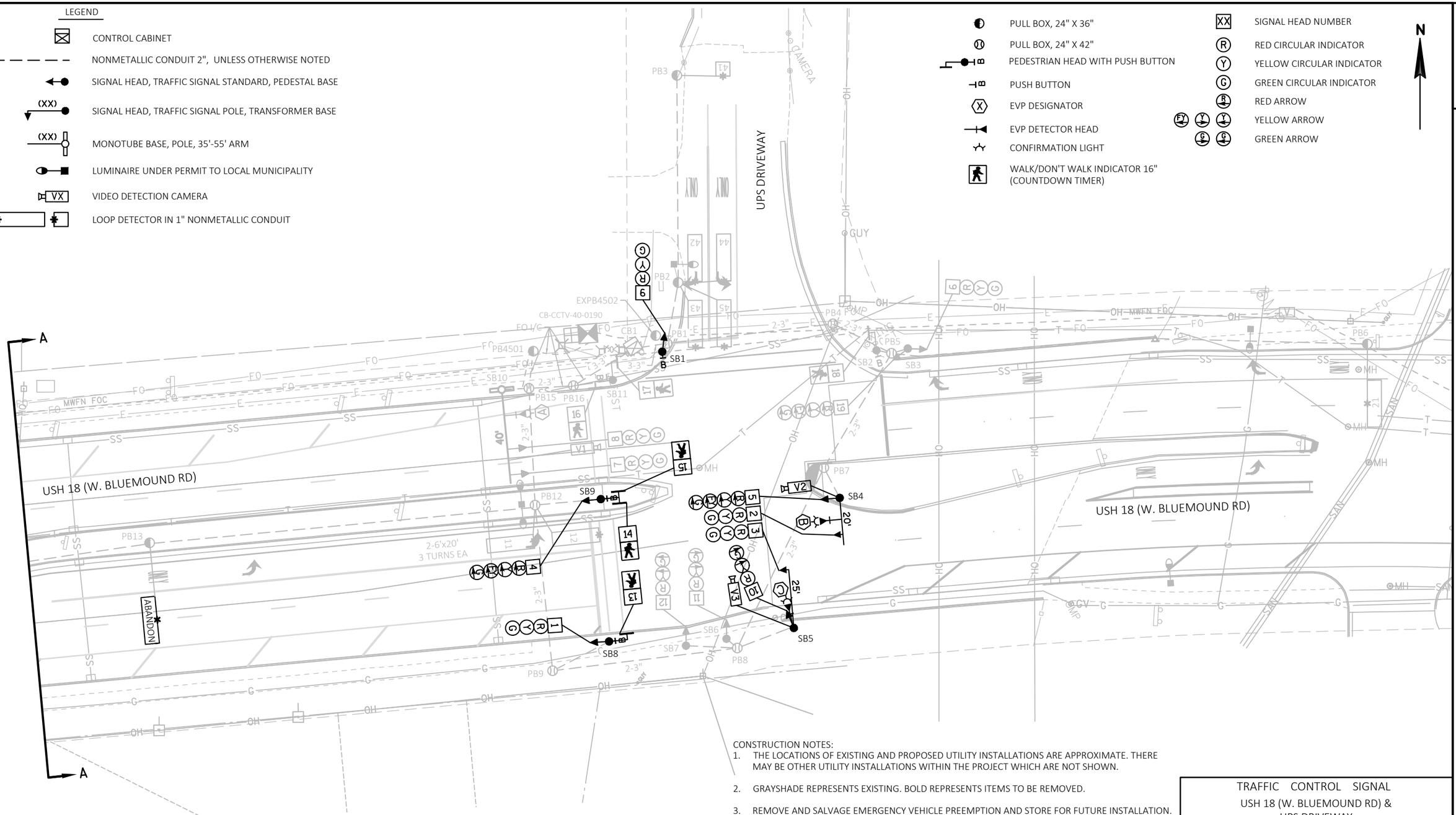
2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- VX VIDEO DETECTION CAMERA
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G G GREEN ARROW

N



CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
3. REMOVE AND SALVAGE EMERGENCY VEHICLE PREEMPTION AND STORE FOR FUTURE INSTALLATION.
4. REMOVE AND SALVAGE INSYNC CAMERAS AND RETURN TO THE SE REGION ELECTRICAL FIELD UNIT.
5. SALVAGE SIGNAL POLE AND SIGNAL HEADS 4, 14, AND 15 ON CONCRETE BASE SB8. REMOVE CONCRETE BASE SB8.
6. SALVAGE SIGNAL POLE AND SIGNAL HEADS 1 AND 13 ON CONCRETE BASE SB9. REMOVE CONCRETE BASE SB9.

TRAFFIC CONTROL SIGNAL
USH 18 (W. BLUEMOUND RD) &
UPS DRIVEWAY
CITY OF BROOKFIELD &
VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0263

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

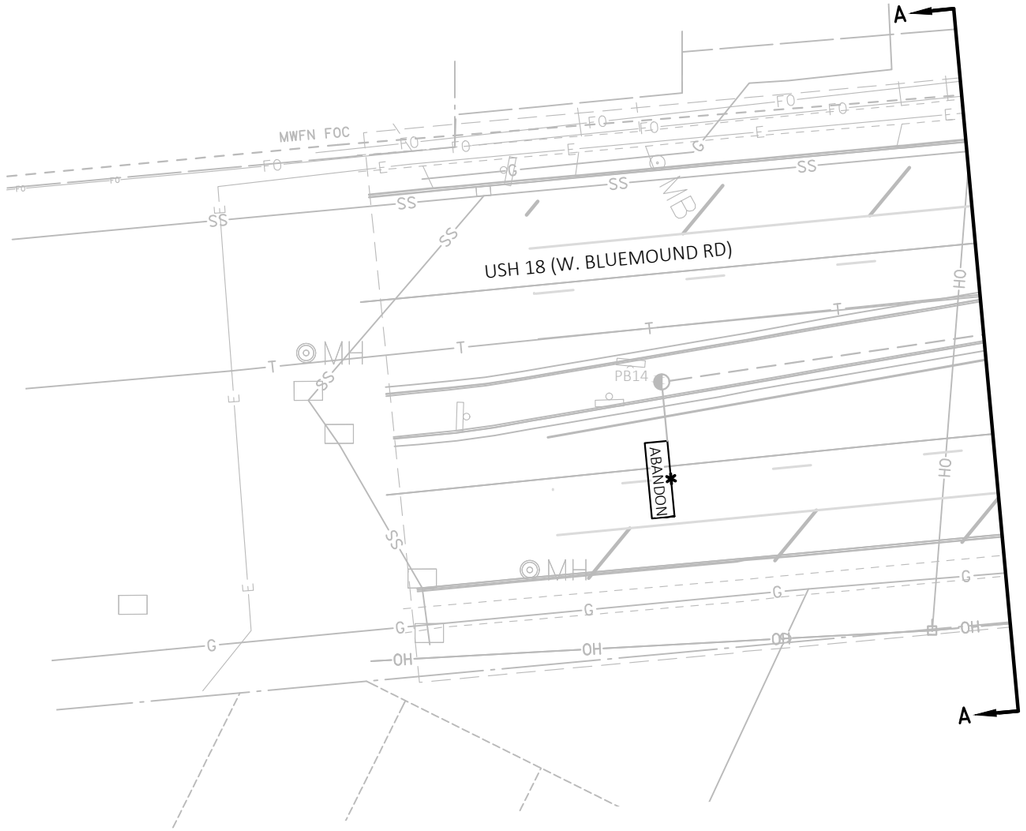
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 272 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024002-SR.DWG
LAYOUT NAME - S67-0263_R5_pg1

PLOT DATE : 1/13/2023 8:49 AM PLOT BY : UTIC, ANDY PLOT NAME : PLOT SCALE : ##########

2

N



TRAFFIC CONTROL SIGNAL
USH 18 (W. BLUEMOUND RD) &
UPS DRIVEWAY
CITY OF BROOKFIELD &
VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0263

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 273 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024002-SR.DWG
LAYOUT NAME - S67-0263_R5_pg2

PLOT DATE : 1/12/2023 9:04 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

2

LEGEND

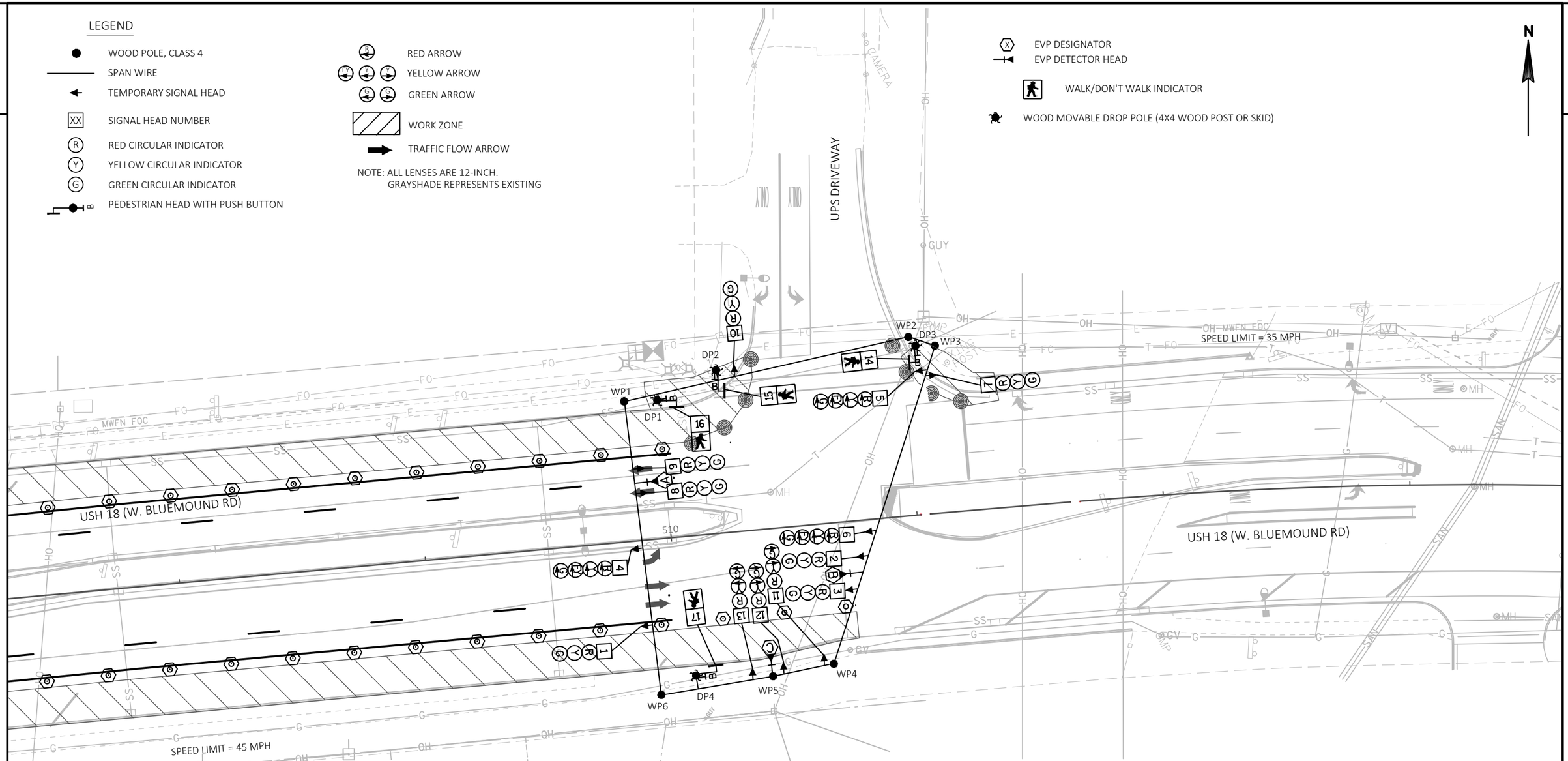
- WOOD POLE, CLASS 4
- SPAN WIRE
- TEMPORARY SIGNAL HEAD
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- WORK ZONE
- TRAFFIC FLOW ARROW

NOTE: ALL LENSES ARE 12-INCH.
GRAYSHADE REPRESENTS EXISTING

- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- WALK/DON'T WALK INDICATOR
- WOOD MOVABLE DROP POLE (4X4 WOOD POST OR SKID)

N

2



SUMMARY OF MATERIALS
(FOR INFORMATION ONLY)

QUANTITY	UNIT	DESCRIPTION
6	EA	CLASS 4 WOOD POLES
4	EA	WOOD MOVABLE DROP POLES
475	LF	SPAN WIRE
13	EA	SIGNAL HEADS
4	EA	PEDESTRIAN HEADS
3	EA	EVP DETECTOR HEADS

CONSTRUCTION NOTES:

1. LOWER TEMPORARY SPAN WIRE FOR ADEQUATE CLEARANCE FROM OVERHEAD LINES
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS, AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF THE CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.

TRAFFIC CONTROL SIGNAL

USH 18 (W BLUEMOUND RD) &
UPS DRIVEWAY
CITY OF BROOKFIELD &
VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. T67-0263

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION & STAGE 1	SHEET 274 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024002-ST_STG1_20.DWG
LAYOUT NAME - S67-0263_R5_pg1

PLOT DATE : 2/1/2023 9:53 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

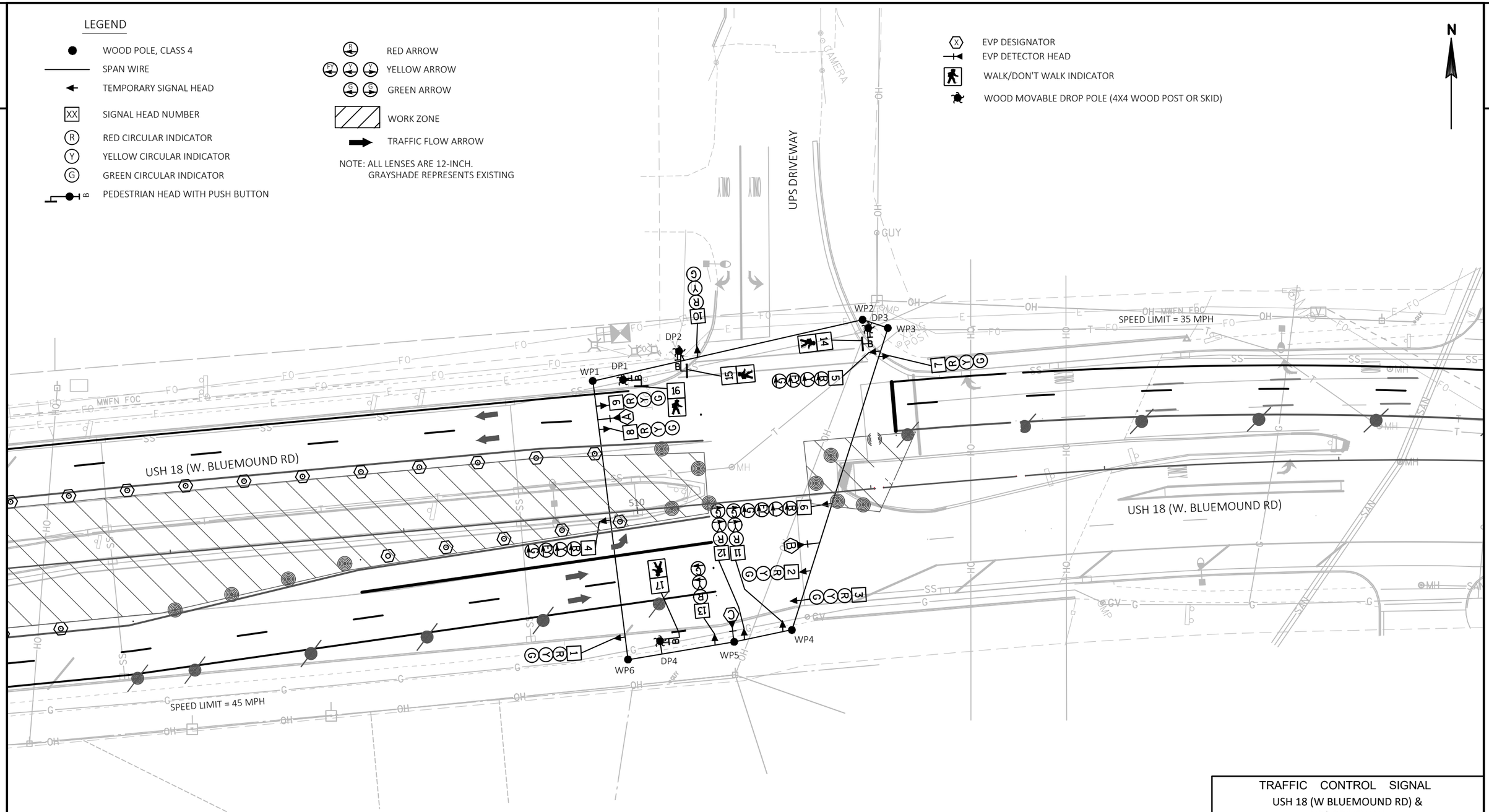
LEGEND

- WOOD POLE, CLASS 4
- SPAN WIRE
- TEMPORARY SIGNAL HEAD
- XX — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- B — PEDESTRIAN HEAD WITH PUSH BUTTON
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WORK ZONE
- TRAFFIC FLOW ARROW

NOTE: ALL LENSES ARE 12-INCH.
GRAYSHADE REPRESENTS EXISTING

- X — EVP DESIGNATOR
- EVP DETECTOR HEAD
- WALK/DON'T WALK INDICATOR
- WOOD MOVABLE DROP POLE (4X4 WOOD POST OR SKID)

N



TRAFFIC CONTROL SIGNAL

USH 18 (W BLUEMOUND RD) &
UPS DRIVEWAY
CITY OF BROOKFIELD &
VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. T67-0263

REGION CONTACT: JOYCE MURPHY
DESIGNED BY: raSmith
REVISED BY:

PAGE 2 OF 3

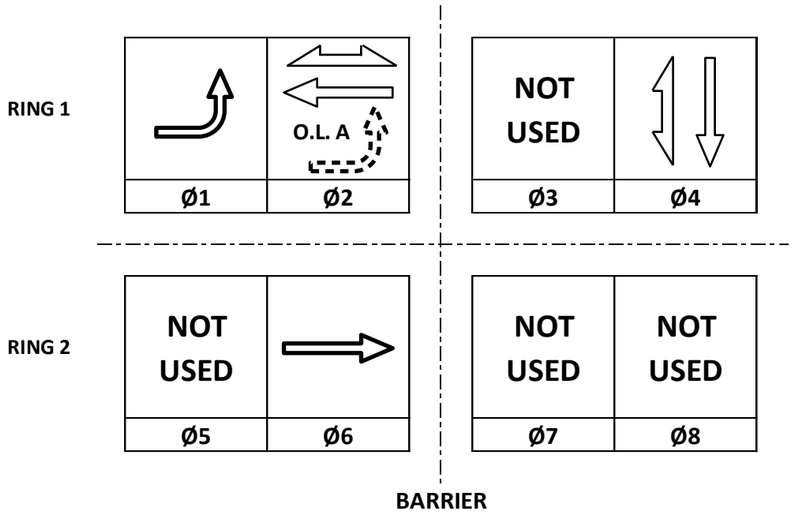
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 275 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024002-ST_STG2_20.DWG
LAYOUT NAME - S67-0263_R5_pg1

PLOT DATE : 2/1/2023 9:53 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5,6	-
Ø2	7,8,9	R
Ø3		
Ø4	10,11,12,13	R
Ø5		
Ø6	1,2,3	R
Ø7		
Ø8		
Ø2P	14,15	
Ø4P	16,17	
Ø6P		
Ø8P		
OLA	4,5,6	R ←
OLB		
OLC		
OLD		





CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1	X	6	MAX	X
2	X	6	MAX	X
3				
4	X		MAX	X
5				
6	X	2	MAX	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C
MOVEMENT			
PHASE	2+6	6+1	4

AFTER PREEMPTION SEQUENCE 2+6 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4, CONTROLLER SHALL RETURN TO PHASE 4.

USH 18 (W BLUEMOUND RD) & UPS DRIVEWAY
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY
SIGNAL NO: T67-0263 CABINET TYPE: TEMP
CONTROLLER TYPE: TEMP
DATE: 2/2023 PAGE NO. 3 OF 3

2

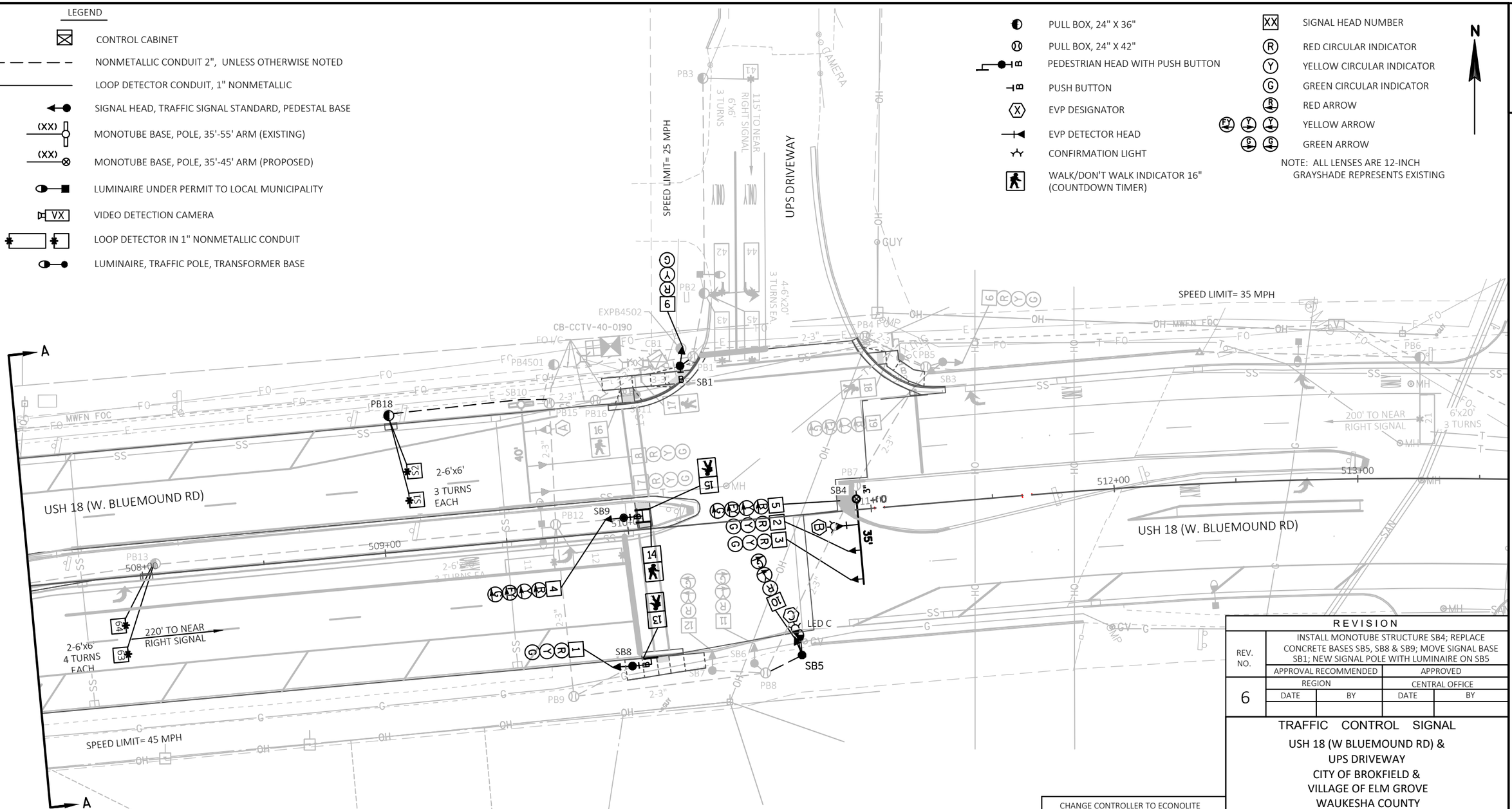
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM (EXISTING)
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM (PROPOSED)
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- VX VIDEO DETECTION CAMERA
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

N



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.

MONOTUBE STRUCTURE NUMBERS
SB4 = S-67-1490-01
SB10 = S-67-1138

CHANGE CONTROLLER TO ECONOLITE 6/14/17
ADD EVP CONFIRMATION LIGHTS 11/7/14
UPDATED DETECTION AND CABINET; ADDED INSYNC ADAPTIVE CONTROL
CHANGE CABINET TO TS2; CHANGE CONTROLLER TO EPAC 8/13
SIGNAL AS-BUILT 3/13
SIGNAL RECONSTRUCTION 7/10

REVISION

REV. NO.	INSTALL MONOTUBE STRUCTURE SB4; REPLACE CONCRETE BASES SB5, SB8 & SB9; MOVE SIGNAL BASE SB1; NEW SIGNAL POLE WITH LUMINAIRE ON SB5			
	APPROVAL RECOMMENDED		APPROVED	
6	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY

TRAFFIC CONTROL SIGNAL

USH 18 (W BLUEMOUND RD) &
UPS DRIVEWAY
CITY OF BROKFIELD &
VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO. S67-0263
CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 6/06/90 — EDWARD J. FRIEDE, REGION TRAFFIC ENGINEER

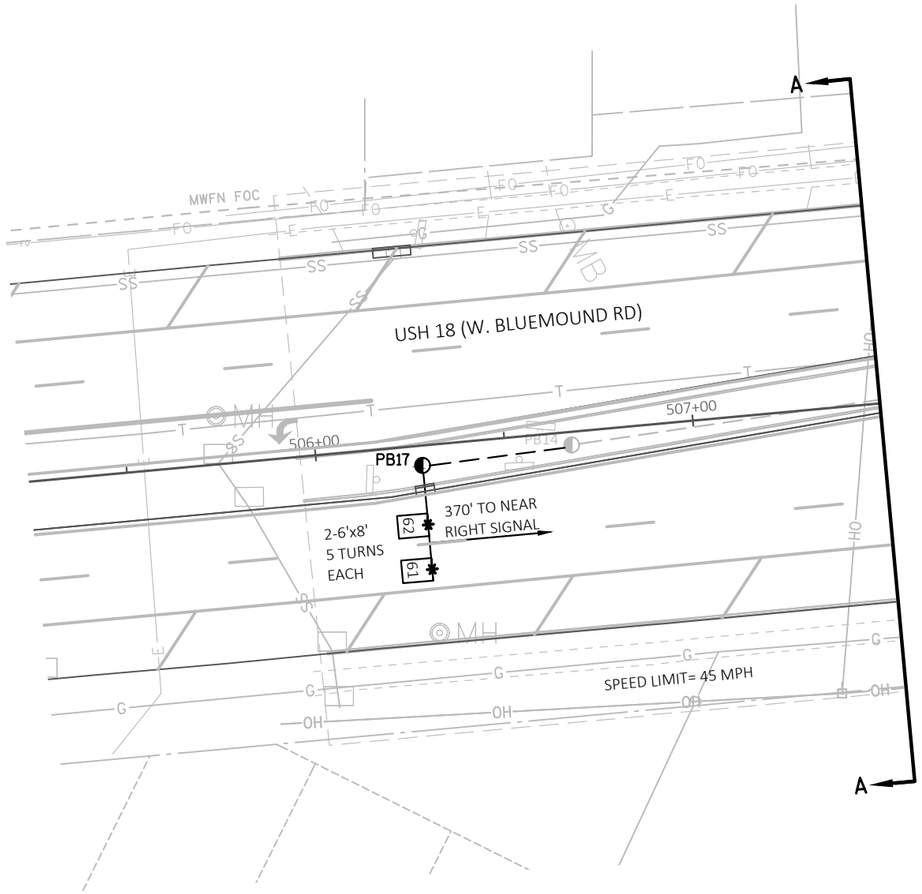
APPROVED
DATE 11/25/96 — WILLIAM C. GILDING, STATE TRAFFIC ENGINEER

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 277 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024202-SP_18.DWG
LAYOUT NAME - S67-0263_R5_pg1
PLOT DATE : 2/1/2023 10:23 AM
PLOT BY : UTIC, ANDY
PLOT NAME :
PLOT SCALE : ##########

2



TRAFFIC CONTROL SIGNAL

USH 18 (W BLUEMOUND RD) &
UPS DRIVEWAY
CITY OF BROOKFIELD &
VILLAGE OF ELM GROVE
WAUEKSHA COUNTY

SIGNAL NO. S67-0263

REGION CONTACT: JOYCE MURPHY
DESIGNED BY:
REVISED BY: raSmith

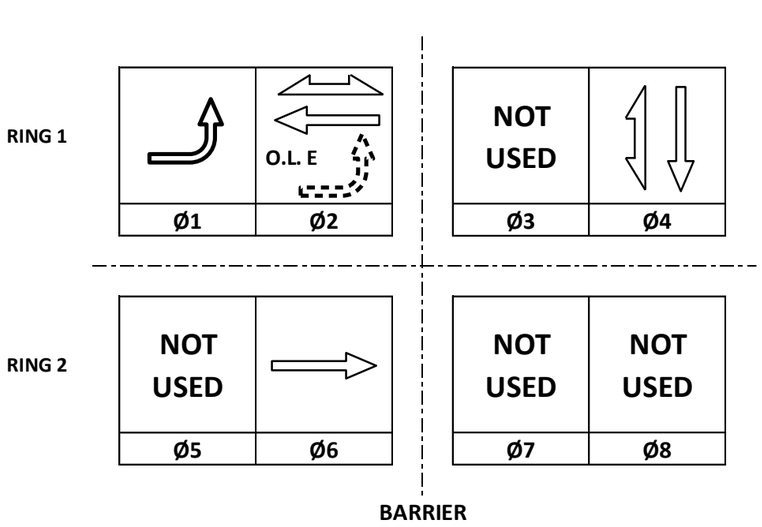
PAGE 2 OF 3

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 278 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024202-SP_18.DWG
LAYOUT NAME - S67-0263_R5_pg2

PLOT DATE : 2/1/2023 9:56 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	4,5,19	-
Ø2	6,7,8	R
Ø3		
Ø4	9,10,11,12	R
Ø5		
Ø6	1,2,3	R
Ø7		
Ø8		
Ø2P	17,18	
Ø4P	13,14,15,16	
Ø6P		
Ø8P		
OLE	4,5,19	R ←
OLF		
OLG		
OLH		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4				X
5				
6	X	2	MIN	X
7				
8				

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C
MOVEMENT	←	→	
PHASE	2+6	6+1	4

AFTER PREEMPTION SEQUENCE 2+6 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4, CONTROLLER SHALL RETURN TO PHASE 4.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	
TRAFFIC RESPONSIVE	X
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 00-43

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	X

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	X
TOMAR	
HARDWIRE	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	42	44	61	63	S1	
CALLED PHASE	1	2	4	4	6	6		
CALL OPTION	X	X	X	X	X	X		
DELAY TIME			X	X				
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME								
USE ADDED INITIAL		X			X	X		
CROSS SWITCH PHASE	2							

19	17	23	21	27	25	31	29	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	41	43	45	62	64	S2	
CALLED PHASE	1	4	4	4	6	6		
CALL OPTION	X		X	X	X	X		
DELAY TIME			X	X				
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME		X						
USE ADDED INITIAL					X	X		
CROSS SWITCH PHASE	2							

20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

USH 18 (W. BLUEMOUND ROAD) & UPS DRIVEWAY
CITY OF BROOKFIELD/VILLAGE OF ELM GROVE
WAUKESHA COUNTY

SIGNAL NO: S67-0263 CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 2/2023 PAGE NO. 3 OF 3

PROJECT ID:	2200-20-70
INTERSECTION:	USH 18 (W BLUEMOUND RD) & UPS DRIVEWAY

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED NEUTRAL	PED INPUT
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK		
SB1	12	9	RED	ORG	GRN								
		BUTTON										WHT/BLK	BLU/BLK
SB4	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		5				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
SB5	7	10	RED				ORG	GRN					
SB8	12	1	RED	ORG	GRN								
		13								BLK	BLU		
		BUTTON										WHT/BLK	BLU/BLK
SB9	12	4				RED	ORG	GRN	BLK/WHT				
		14								BLK	BLU		
		15								BLK	BLU		
		BUTTON										WHT/BLK	BLU/BLK

Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB3	SB4
SB4	SB5
SB5	SB6
SB7	SB8
SB8	SB9
SB9	SB10

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	SB1
PB7	SB4
PB9	SB8
PB12	SB9

Lighting UF 2-10 AWG Grounded	
From	To
CB1	SB5

Emergency Vehicle Preemption	
From	To
CB1	HEAD B (SB4)
CB1	HEAD C (SB5)

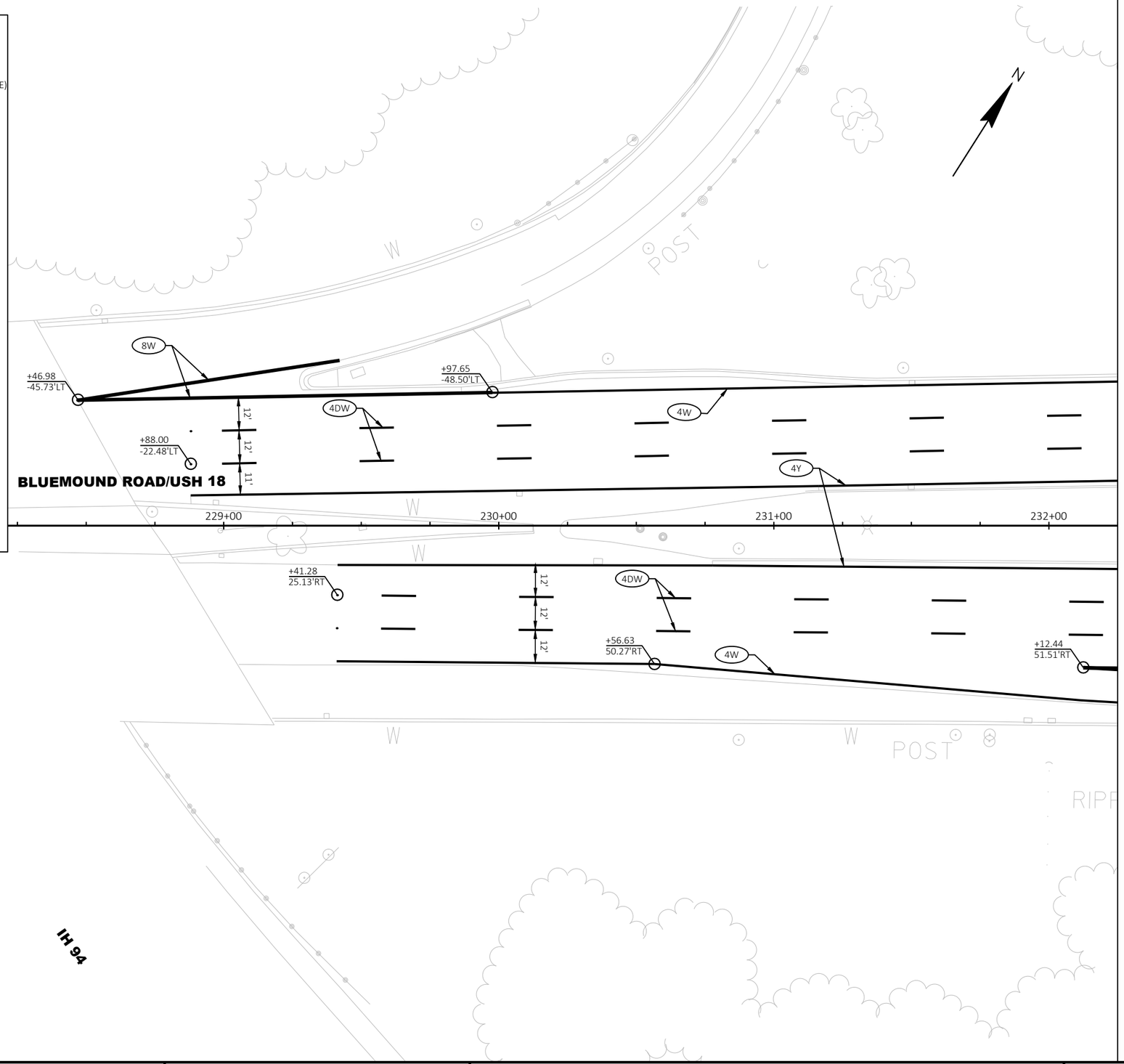
Confirmation Beacon Cable Traffic Signal 3-14 AWG	
From	To
CB1	HEAD B (SB4)
CB1	HEAD C (SB5)

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW)
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH



2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 281 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (1)
PLOT DATE : 3/21/2023 9:28 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

N

CTH JJ

BLUEMOUND ROAD/USH 18

MATCHLINE STA 232+25.00

MATCHLINE STA 237+50.00

MATCHLINE EB1

PC: 234+69.10

233+00 234+00 235+00 236+00 237+00

R145' R145'

162'

+29.11
58.79'RT

RIPRAP

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 282 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (2)

PLOT DATE : 3/21/2023 9:28 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW)
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

N

MATCHLINE EB1

8W

4Y

4W

+16.70
219.04'RT

+94.80
356.86'RT

2

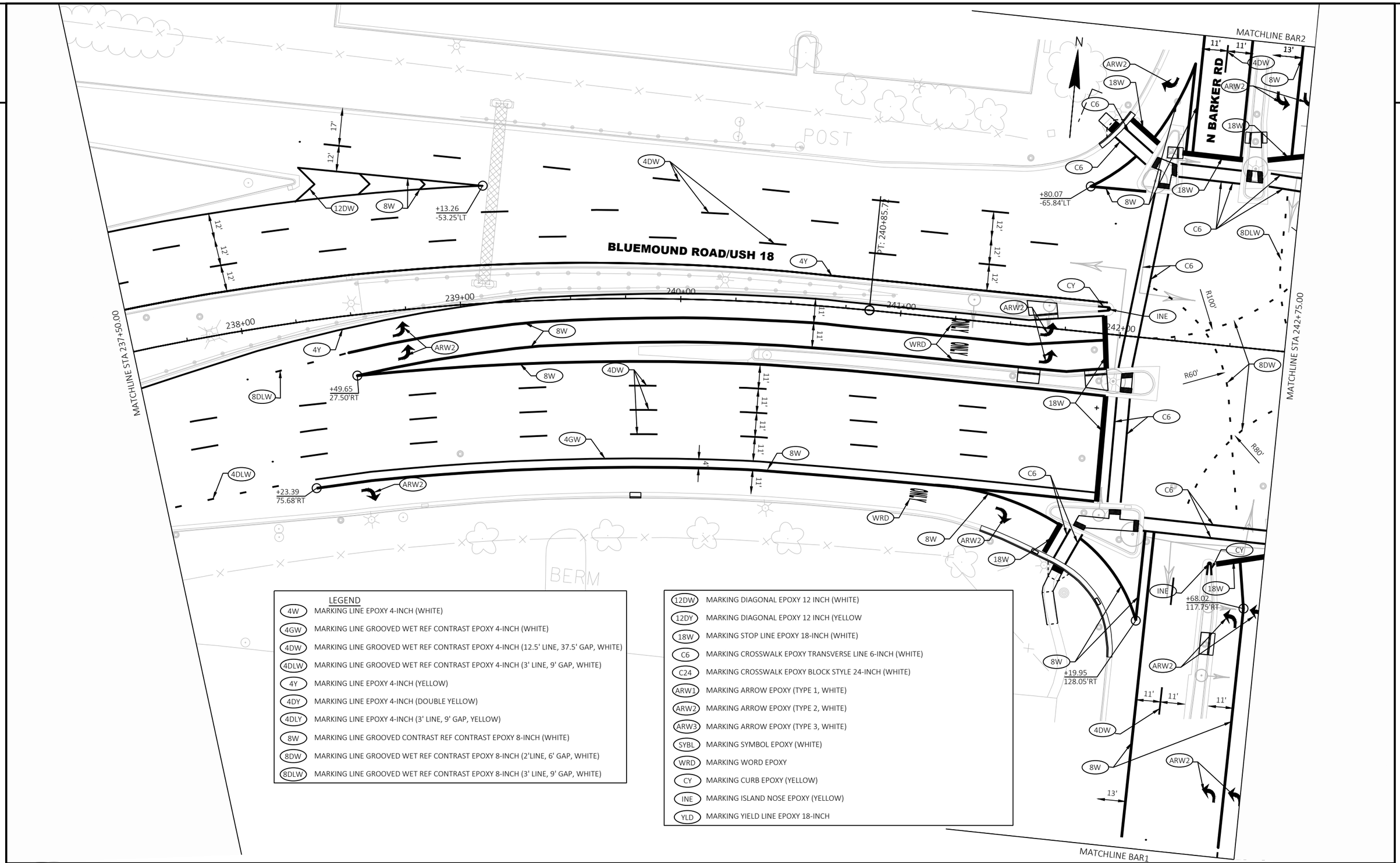
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 283 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (2) EB1 USH18

PLOT DATE : 3/21/2023 11:42 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 284	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (3)
PLOT DATE : 3/21/2023 9:28 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

MATCHLINE BAR2

N BARKER RD

BLUEMOUND ROAD/USH 18

N

MATCHLINE STA 242+75.00

MATCHLINE STA 248+00.00

243+00 244+00 245+00 246+00 247+00 248

+42.04 -65.85'LT

+50.57 -58.37'LT

+86.97 -13.75'LT

+56.63 7.22'RT

+99.49 7.19'RT

+00.25 28.35'RT

+20.64 28.02'RT

+92.26 28.12'RT

+75.12 75.26'RT

+81.79 76.11'RT

+14.33 76.01'RT

+33.85 72.18'RT

ONLY

MATCHLINE BAR1

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 285 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (4)

PLOT DATE : 3/21/2023 9:28 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW)
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

N

N BARKER RD

IH 94 WB OFF-RAMP

+84.31
318.15'RT

+60.64
505.46'RT

8W

8DLW

4DLW

8W

4DW

8DLW

ARW2

12'

12'

MARKING REMOVAL LINE WATER BLASTING 8-INCH, 110-FT REQ'D

MATCHLINE BAR1

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 286	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (4) Barker

PLOT DATE : 3/21/2023 11:42 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 287	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (4) Barker (2)

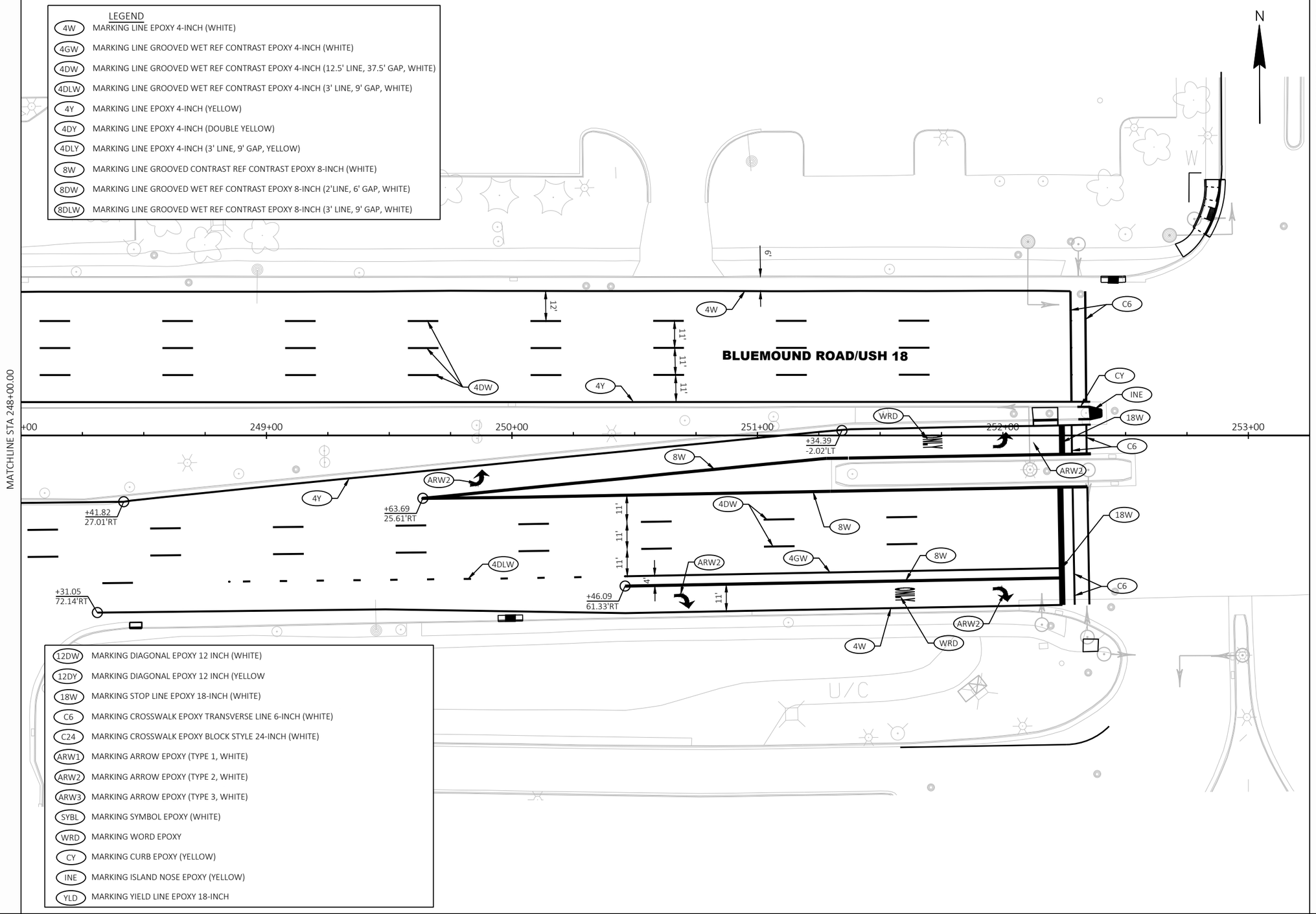
PLOT DATE : 3/21/2023 11:42 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)



12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 288 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (5)

PLOT DATE : 3/21/2023 9:29 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

POPLAR CREEK PKWY

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 258+50.00

BLUEMOUND ROAD/USH 18

6'
12'
11'
11'
11'
4DW
4W
C6
18W
8W
+11.09
-13.68'LT
4Y
254+00
255+00
256+00
257+00
258+00
ARW2
WRD
C6
18W
CY
INE
C6
+77.23
7.42'RT
4DW
+46.63
49.04'RT
4W
11'
12'
11'
50'
16'
12DW

MATCHLINE STA 253+25.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 289	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (6)

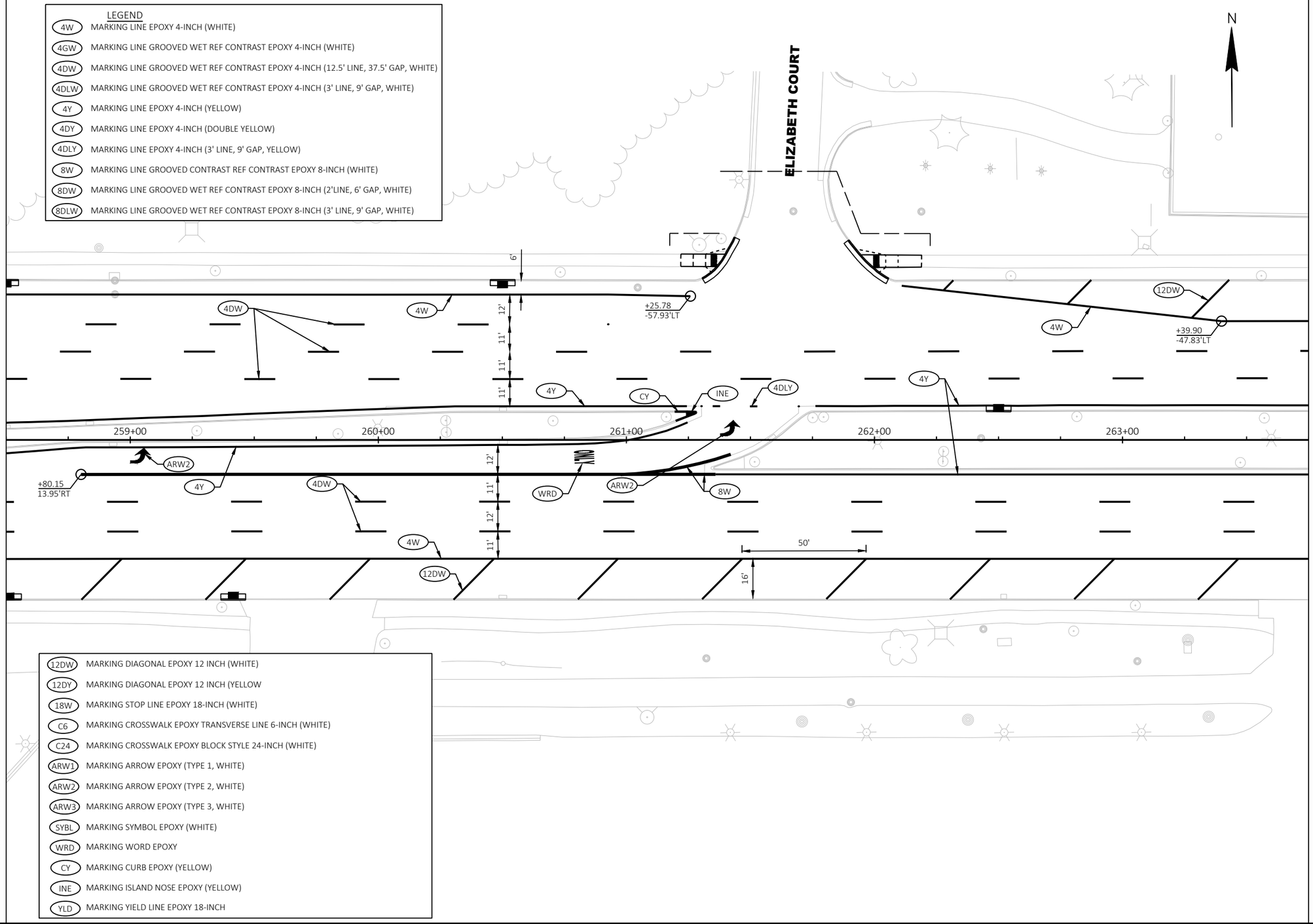
PLOT DATE : 3/21/2023 9:29 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- 4W — MARKING LINE EPOXY 4-INCH (WHITE)
- 4GW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
- 4DW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
- 4DLW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
- 4Y — MARKING LINE EPOXY 4-INCH (YELLOW)
- 4DY — MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- 4DLY — MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
- 8W — MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
- 8DW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
- 8DLW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)



- 12DW — MARKING DIAGONAL EPOXY 12 INCH (WHITE)
- 12DY — MARKING DIAGONAL EPOXY 12 INCH (YELLOW
- 18W — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- C6 — MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- C24 — MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- ARW1 — MARKING ARROW EPOXY (TYPE 1, WHITE)
- ARW2 — MARKING ARROW EPOXY (TYPE 2, WHITE)
- ARW3 — MARKING ARROW EPOXY (TYPE 3, WHITE)
- SYBL — MARKING SYMBOL EPOXY (WHITE)
- WRD — MARKING WORD EPOXY
- CY — MARKING CURB EPOXY (YELLOW)
- INE — MARKING ISLAND NOSE EPOXY (YELLOW)
- YLD — MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 290	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (7)

PLOT DATE : 3/21/2023 9:29 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 269+00.00

RIPRAP

BLUEMOUND ROAD/USH 18

264+00 265+00 266+00 267+00 268+00 269

4W 4DW 8W 4Y 4DLY 4DW 12DW 4DLW 4GW 18W 8W SYBL WRD ARW2 INE CY WRD

11' 11' 12' 11' 11' 11' 11' 11' 50' 16' 4'

MATCHLINE STA 263+75.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 291	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (8)

PLOT DATE : 3/21/2023 9:29 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

MATCHLINE JAN2

MATCHLINE STA 274+25.00

MATCHLINE STA 269+00.00

MATCHLINE JAN1

N

N JANACEK RD

BLUEMOUND ROAD/USH 18

+00 270+00 271+00 272+00 273+00 274+00

LEGEND	
4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

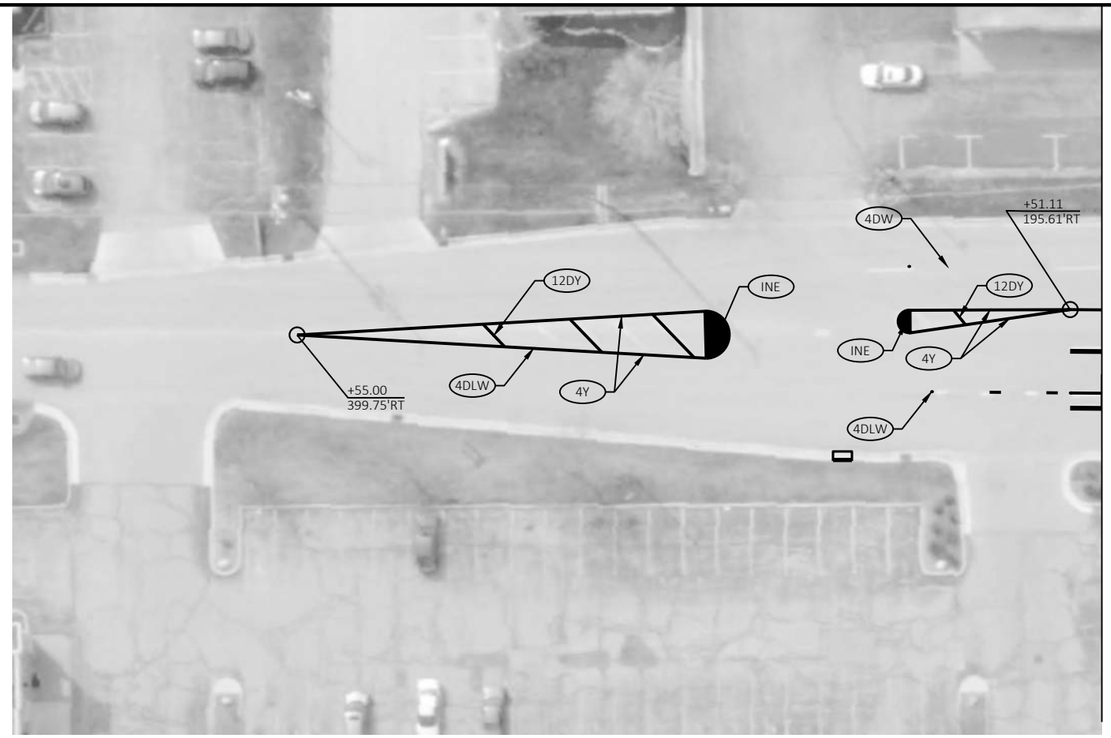
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 292	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (9)

PLOT DATE : 3/21/2023 9:30 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

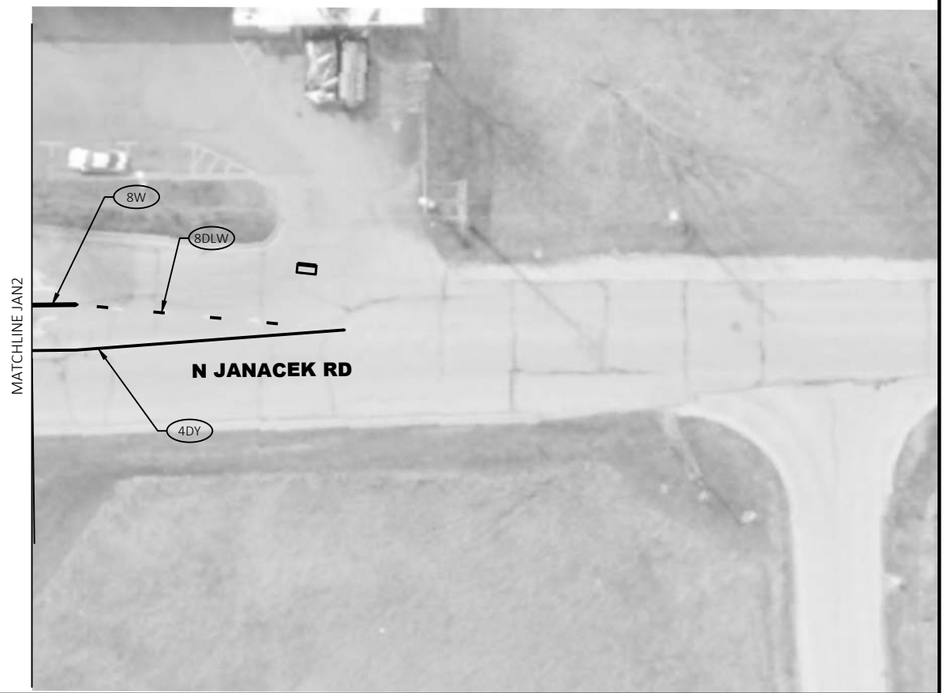
2



N

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW)
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 293	E

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 279+50.00

12DW
4W
4DW
12'
12'
12'
+48.44
-13.91'LT
4Y
+63.79
-13.04'LT
ARW2
275+00
276+00
277+00
278+00
279+00

4Y
4DW
4W
50'
14'
12DW
12'
12'
12'

MATCHLINE STA 274+25.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 294	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (10)

PLOT DATE : 3/21/2023 9:30 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 284+75.00

12DW
4DW
4W
12'
12'
12'
BLUEMOUND ROAD/USH 18
CY
INE
4DLY
280+00
281+00
282+00
283+00
284+00
+34.64
14.11'RT
+79.58
14.17'RT
4Y
12'
WRD
ARW2
ARW2
+72.54
14.24'RT
8W
4DW
12'
12'
12'
4W
50'
12DW
14'
POST
POST
POST
POST

MATCHLINE STA 279+50.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

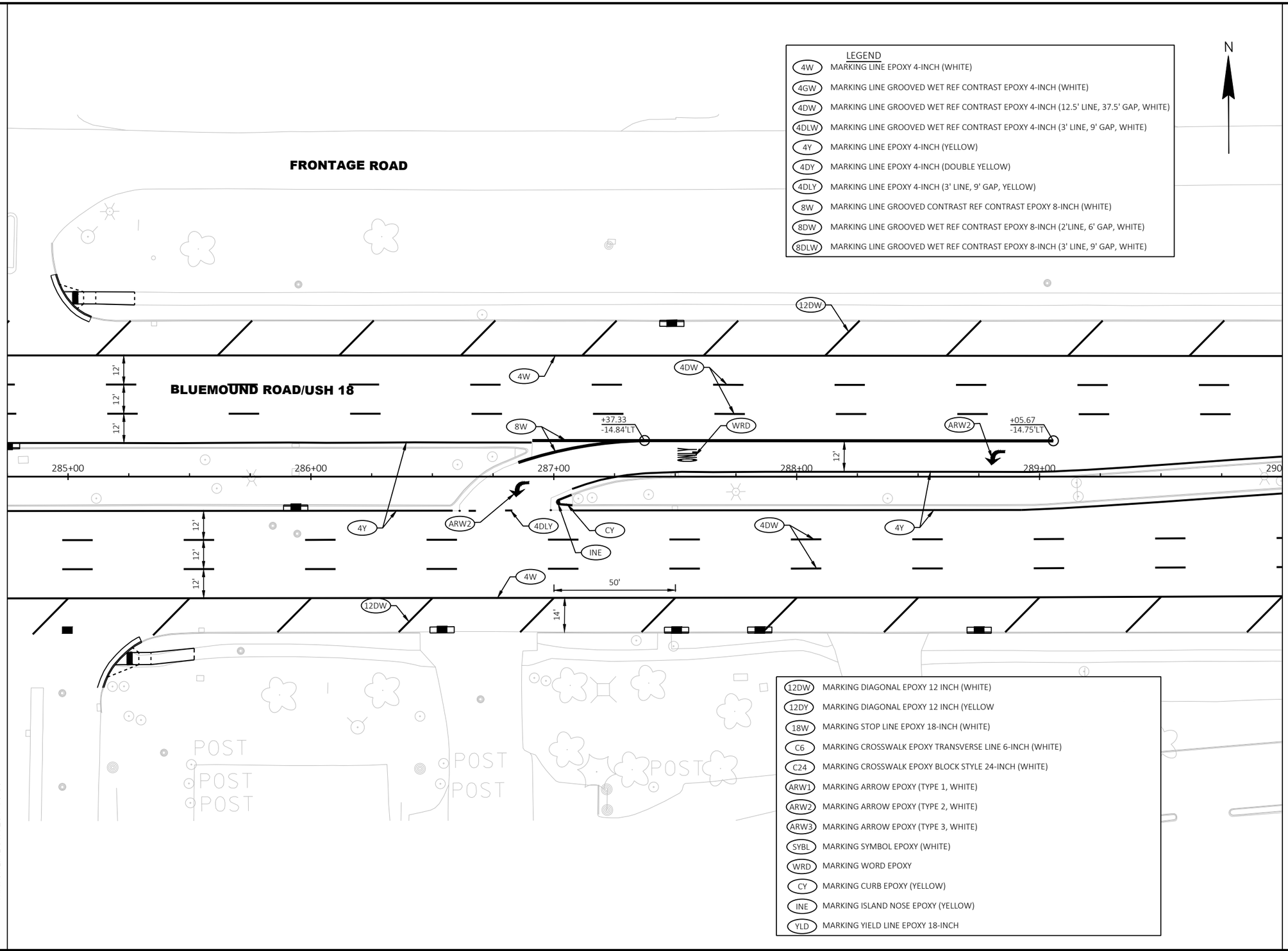
2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 295 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (11)

PLOT DATE : 3/21/2023 9:30 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 296	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (12)

PLOT DATE : 3/21/2023 9:30 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 295+25.00

FRONTAGE ROAD

BLUEMOUND ROAD/USH 18

12DW

4DW

4W

+69.53
-50.05'LT

12'

12'

12'

4Y

PT: 294+65.56

+78.65
-13.89'LT

+00

291+00

292+00

293+00

294+00

295+00

10'

+58.61
12.97'RT

ARW2

8W

12'

4DW

11'

11'

11'

WRD

PC: 290+97.95

50'

4W

12'

4DLW

4GW

WRD

15'

12DW

+00.42
49.71'RT

+73.23
50.18'RT

8W

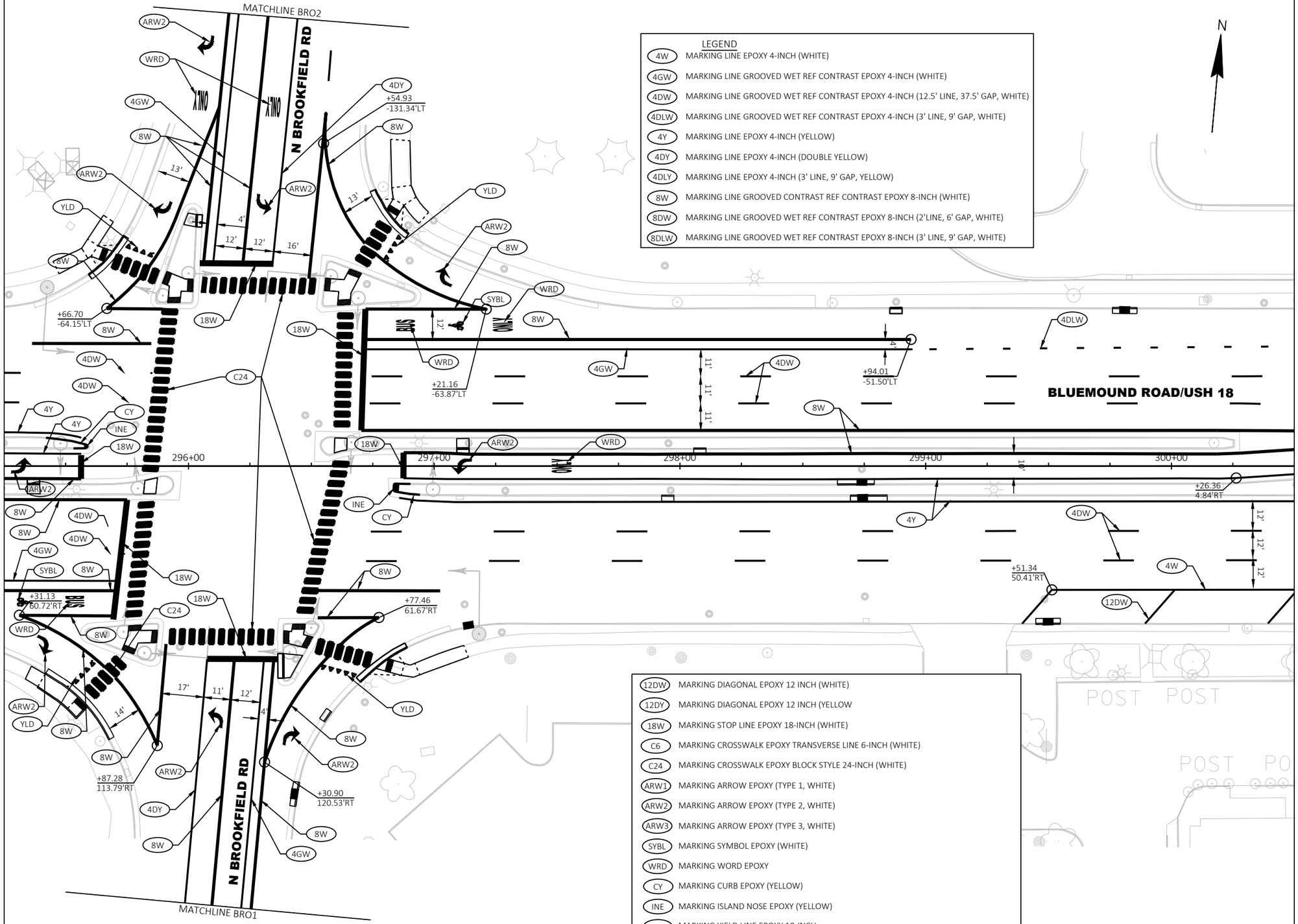
MATCHLINE STA 290+00.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 297	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (13)

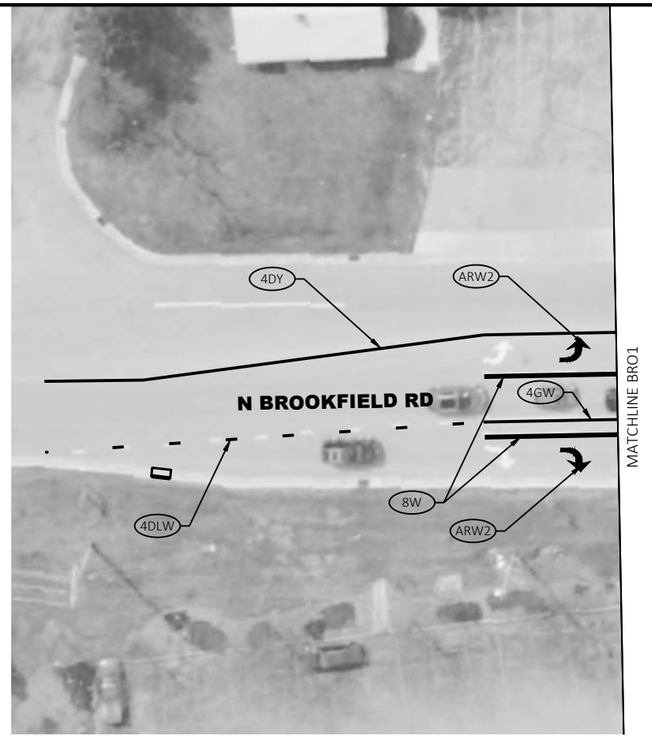
PLOT DATE : 3/21/2023 9:31 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT



2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 298	E

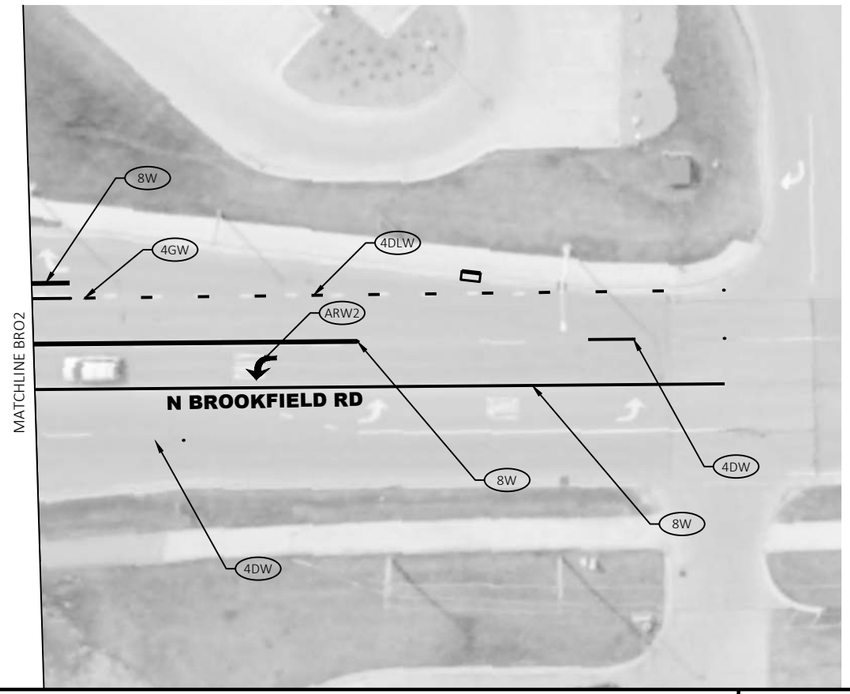
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (14)
PLOT DATE : 3/21/2023 9:31 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT



N

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW)
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

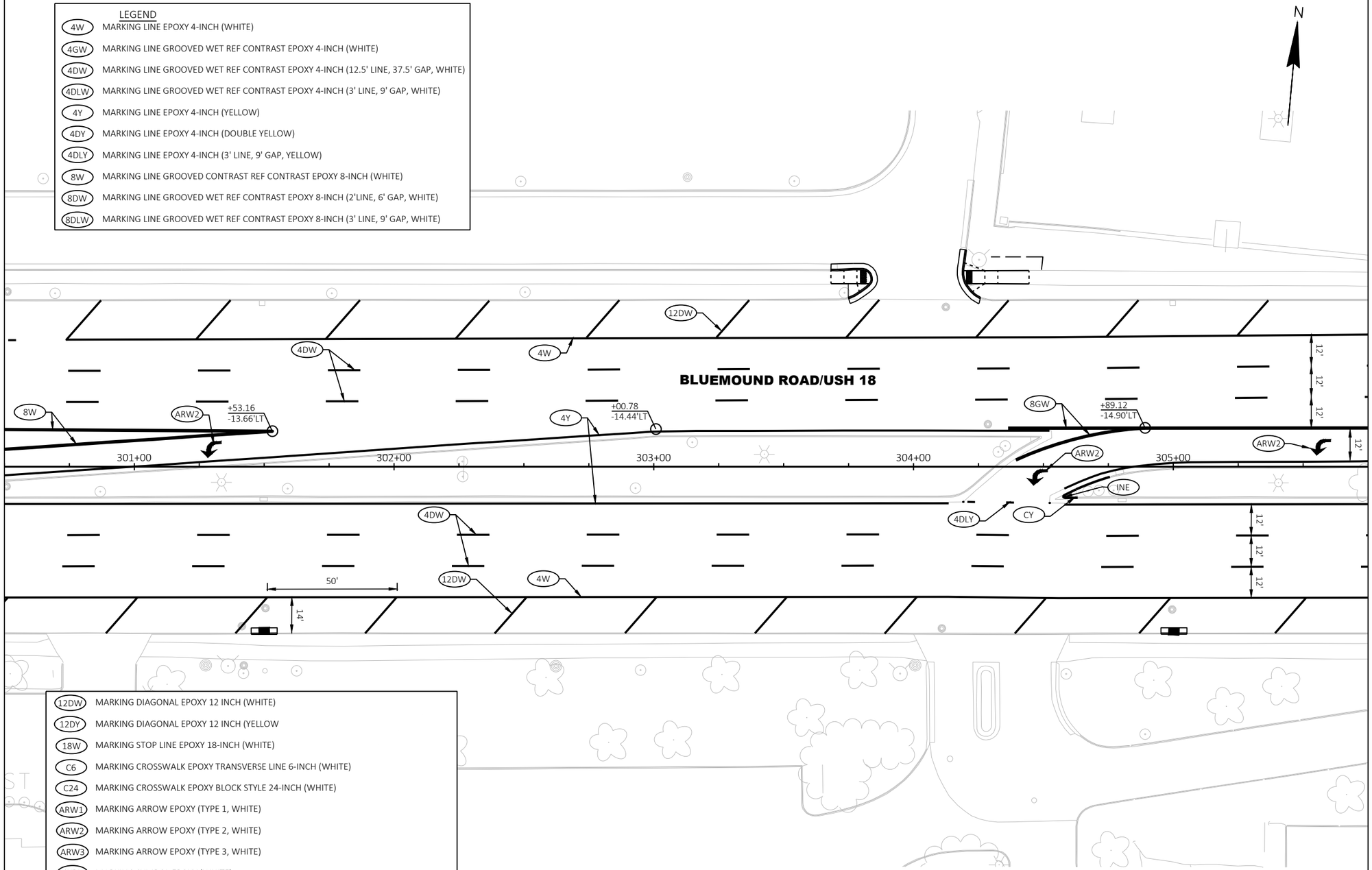


PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 299	E

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)



12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 300 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (15)

PLOT DATE : 3/21/2023 9:31 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 311+00.00

BLUEMOUND ROAD/USH 18

12DW

4W

4DW

12'

12'

12'

8GW

306+00

307+00

+28.03
-14.28'LT

308+00

309+00

+46.70
-5.20'LT

310+00

311

WRD

10'

ARW2

12'

12'

12'

+02.54
13.90'RT

4DW

4Y

+30.42
13.94'RT

8W

4W

50'

14'

12DW

MATCHLINE STA 305+75.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 301	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (16)

PLOT DATE : 3/21/2023 9:32 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 316+25.00

12DW

4W 4DW 12' 12' 12'

CY INE 4DLY ARW2 4Y

BLUEMOUND ROAD/USH 18

8W +77.12 -13.72'LT WRD ARW2

11'

+00 312+00 313+00 314+00 315+00 316+00

ARW2 INE ARW2 4DLY CY

4Y 4DW 4W 50'

12' 12' 12'

12DW 14'

MATCHLINE STA 311+00.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 302	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (17)

PLOT DATE : 3/21/2023 9:32 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 321+50.00

MATCHLINE STA 316+25.00

BLUEMOUND ROAD/USH 18

12DW

4W

4DW

12'

12'

12'

PC: 319+64.42

+23.50
-48.46'LT

4Y

+42.82
-2.54'LT

+57.29
-13.23'LT

+20.58
-4.10'LT

317+00

318+00

319+00

320+00

321+00

ARW2

+04.05
15.03'RT

+90.83
14.42'RT

12'

12'

12'

50'

14'

12DW

8W

4W

4DW

4DLW

4GW

+55.52
50.40'RT

+59.55
52.91'RT

4'

11'

11'

11'

8W

12DW MARKING DIAGONAL EPOXY 12 INCH (WHITE)

12DY MARKING DIAGONAL EPOXY 12 INCH (YELLOW

18W MARKING STOP LINE EPOXY 18-INCH (WHITE)

C6 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)

C24 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)

ARW1 MARKING ARROW EPOXY (TYPE 1, WHITE)

ARW2 MARKING ARROW EPOXY (TYPE 2, WHITE)

ARW3 MARKING ARROW EPOXY (TYPE 3, WHITE)

SYBL MARKING SYMBOL EPOXY (WHITE)

WRD MARKING WORD EPOXY

CY MARKING CURB EPOXY (YELLOW)

INE MARKING ISLAND NOSE EPOXY (YELLOW)

YLD MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 303 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (18)

PLOT DATE : 3/21/2023 9:32 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE WOE2

WOELFEL RD

N CORPORATE DR

MATCHLINE STA 321+50.00

MATCHLINE STA 326+75.00

N

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

4W 5'X 5' GRID

MATCHLINE WOE1

323+00 324+00 325+00 326+00

+74.47 -41.26'LT

+09.39 24.07'RT

+90.52 59.95'RT

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 304 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (19)

PLOT DATE : 3/21/2023 9:32 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

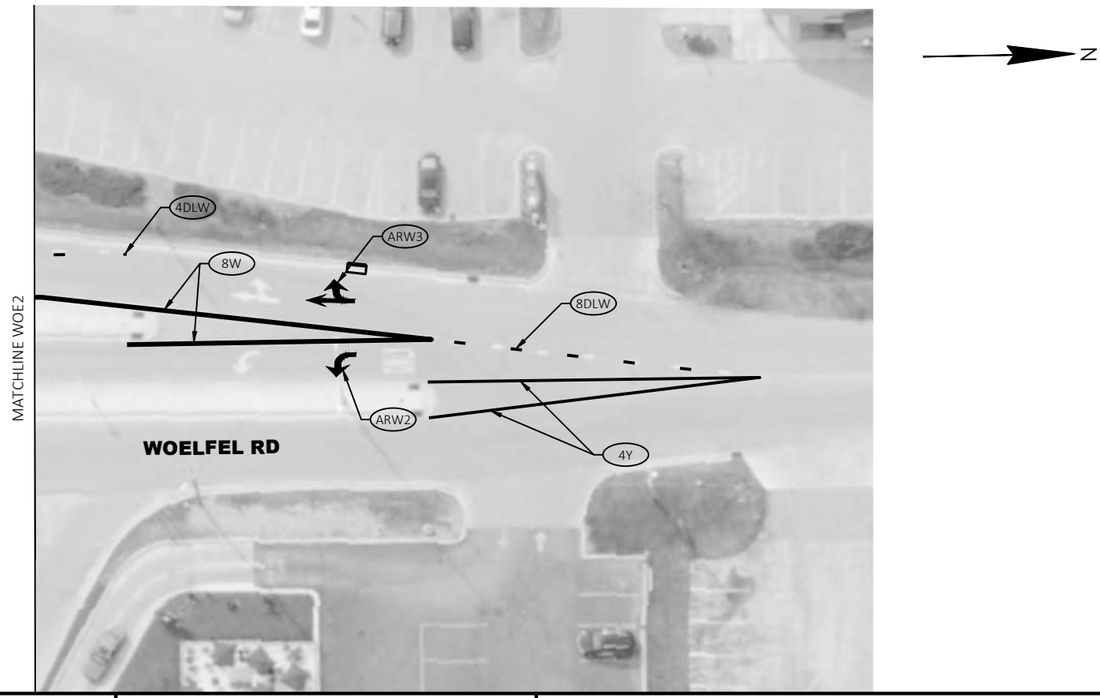
WISDOT/CADDS SHEET 42

2

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW)
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 305 E

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 332+00.00

POST POST

PT: 326+81.74

BLUEMOUND ROAD/USH 18

4DLW 4W 12DW 4DW 4DLY 4Y 8W 4Y CY INE ARW2 ARW2 WRD ARW2 4DW 8W 4W 12DW

327+00 328+00 329+00 330+00 331+00 332

+20.10 -3.65'LT

+84.53 24.67'RT

+07.35 24.71'RT

+93.40 6.00'RT

12' 12' 12' 12' 12' 12' 12'

50'

14'

MATCHLINE STA 326+75.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 306 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (20)

PLOT DATE : 3/21/2023 9:32 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 337+25.00

BLUEMOUND ROAD/USH 18

12DW +36.82 -43.34'LT

4W 4DW 4Y 12' 12' 12'

CY 8DLW +64.23 -10.13'LT

+00 333+00 334+00 335+00 336+00 337+00

ARW2 10' 4Y WRD ARW2 INE

12' 12' 12' 8W 4DW 18W 12' 12' 12'

4W 50' +60.99 61.12'RT 8DLW +25.69 61.40'RT 8W

12DW 14' ARW2 14' WRD ARW2

POST POST POST W W

MATCHLINE STA 332+00.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 307	E

2

N

MATCHLINE STA 342+50.00

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

BLUEMOUND ROAD/USH 18

DISCOVERY DR

MATCHLINE STA 337+25.00

338+00 339+00 340+00 341+00 342+00

PC: 341+09.49

+48.71
-47.54'LT

+05.87
25.52'RT

+38.51
61.44'RT

ARW2 WRD 8W 16' 4DW 8DLW 18W 12' 11' 11' 8DW C6 10' 10' INE CY 4Y 12' 12' 12' 50' 13' 4W 12DW

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 308 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (22)

PLOT DATE : 3/21/2023 9:33 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 347+75.00

MATCHLINE STA 342+50.00

BLUEMOUND ROAD/USH 18

13'

50'

8W

8DLW

+67.75
-12.44'LT

343+00

344+00

+68.00
-12.19'LT

345+00

346+00

347+00

12DW

4W

4DW

+16.37
-52.54'LT

12'

12'

12'

4Y

11'

11'

+48.73
10.25'RT

8W

+83.93
26.20'RT

ARW2

12'

12'

12'

4DW

4W

12DW

+35.16
61.87'RT

4DLW

4GW

8W

+55.62
62.75'RT

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

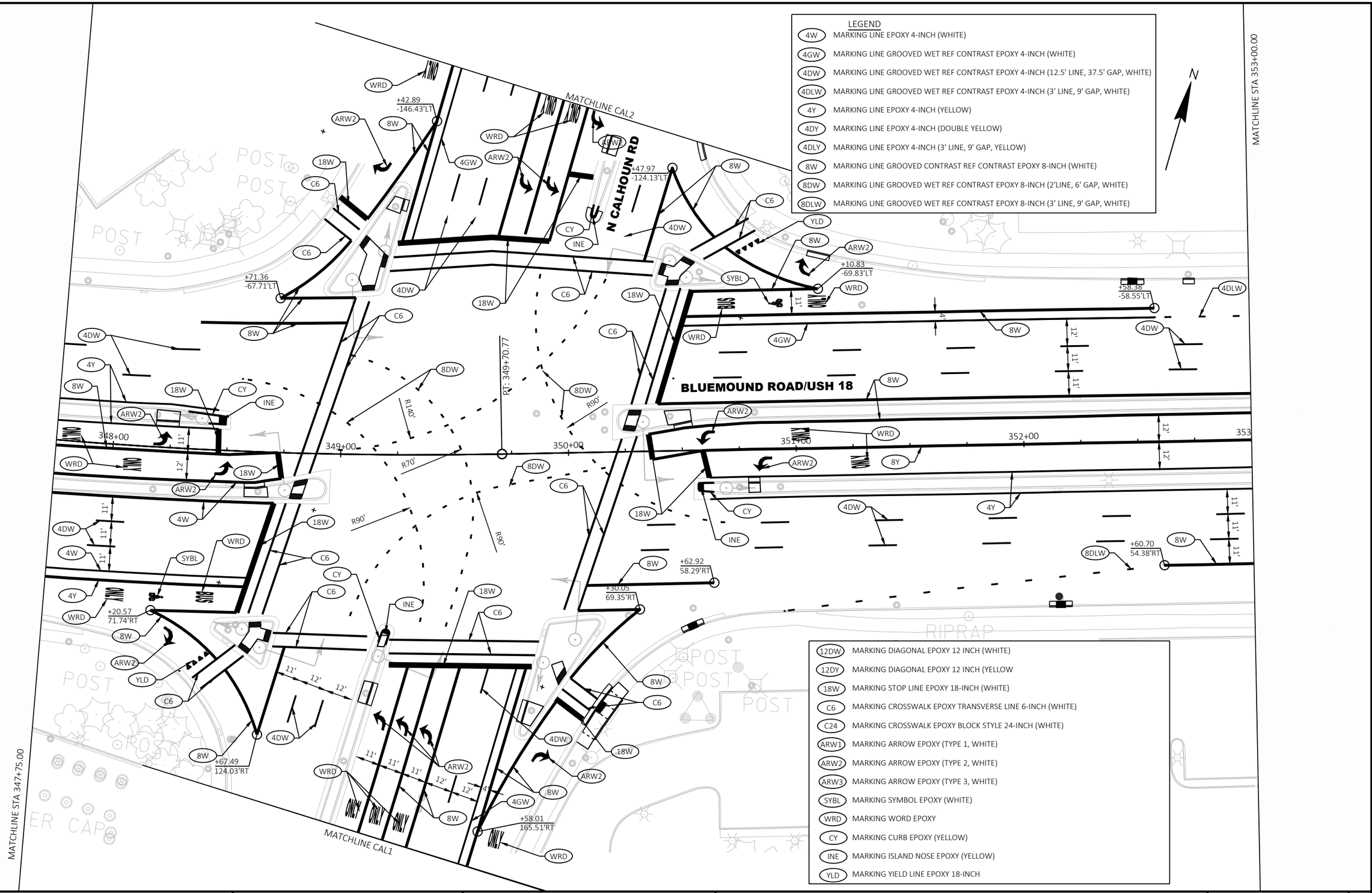
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 309	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (23)

PLOT DATE : 3/21/2023 9:33 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

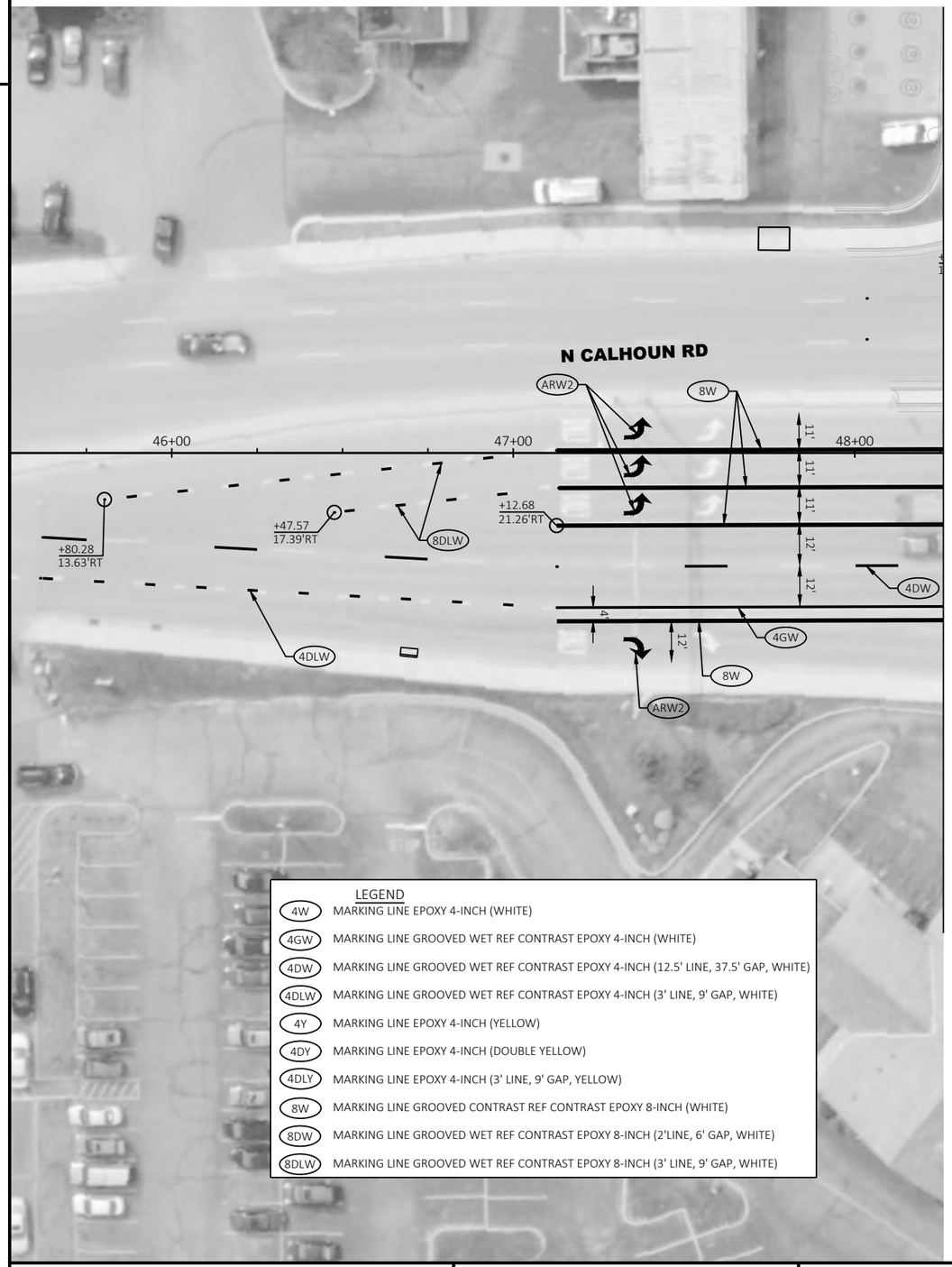
WISDOT/CADDS SHEET 42

2



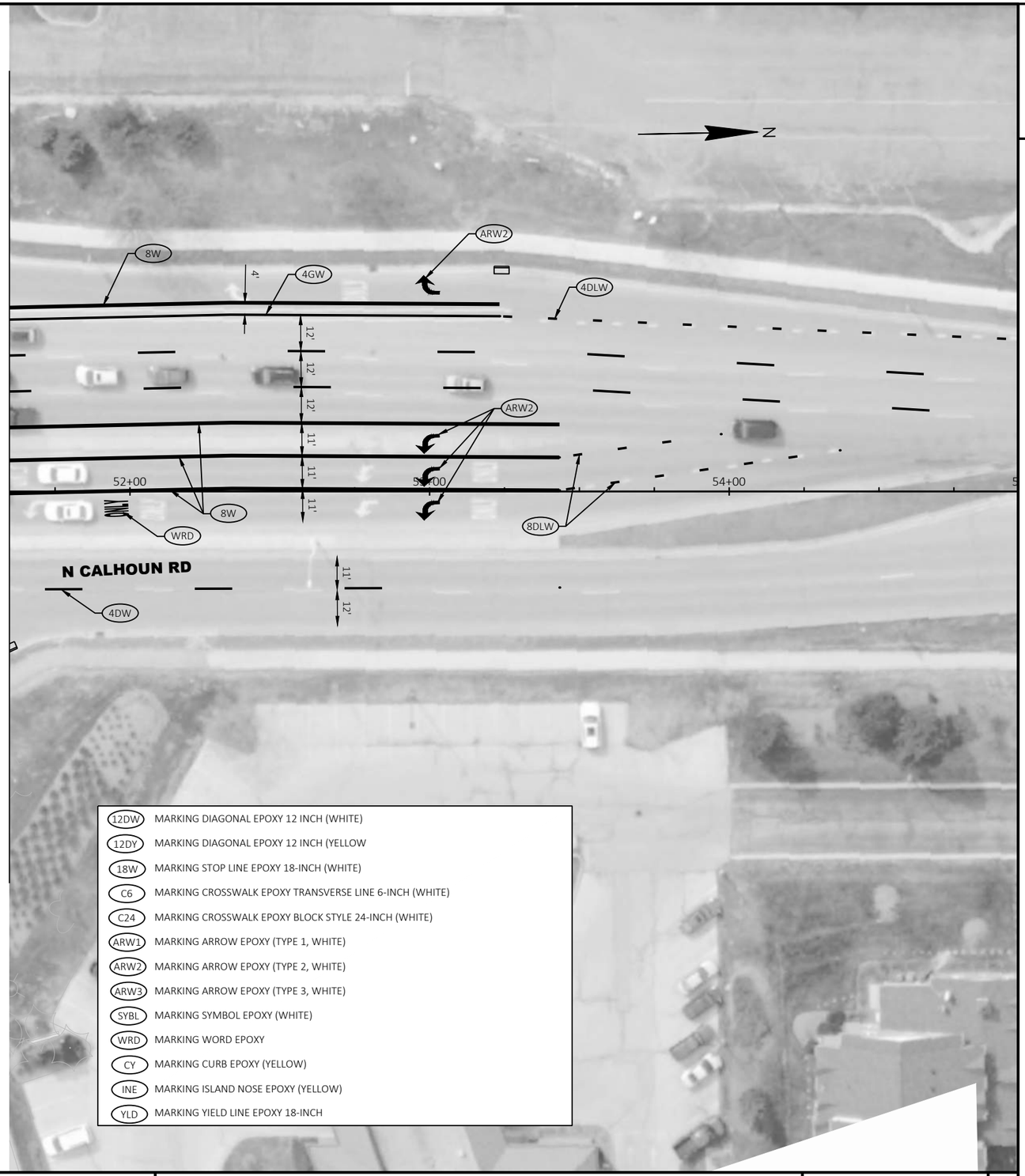
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 310	E

2



MATCHLINE CAL1

MATCHLINE CAL2



LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 311	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (24) Calhoun

PLOT DATE : 3/21/2023 11:44 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 358+25.00

REINDERS DR

BLUEMOUND ROAD/USH 18

PC: 356+09.04

50'

15'

12DW

4DW

12'

4W

11'

11'

8W

ARW2

+39.17
-22.05'LT

+32.08
-53.90'LT

4DLW

INE

8W

CY

8DLW

+86.71
-21.87'LT

WRD

14'

+01.55
-20.00'LT

11'

12'

ARW2

+00

354+00

355+00

356+00

357+00

358+00

ARW2

INE

+51.26
11.75'RT

11'

11'

11'

4Y

4DLY

CY

4Y

4DW

11'

11'

+85.61
54.23'RT

8W

+48.98
53.50'RT

4W

12'

12DW

C6

18W

REINDERS DR

MATCHLINE STA 353+00.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 312 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (25)

PLOT DATE : 3/21/2023 9:34 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 363+50.00

MATCHLINE STA 358+25.00

POST

BLUEMOUND ROAD/USH 18

18W

C6

12DW

4W

+76.08
-53.60'LT

12'

11'

11'

4DW

4Y

CY

INE

4DLY

+81.70
-51.56'LT

8W

12'

11'

11'

4Y

ARW2

359+00

360+00

361+00

362+00

363+00

WRD

12'

4Y

8W

+66.95
17.72'RT

ARW2

12'

11'

12'

4DW

+75.78
14.96'RT

8W

+16.84
14.14'RT

ARW2

+11.37
13.69'RT

8W

4W

50'

16'

+12.40
48.10'RT

8DLW

12DW

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 313 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (26)

PLOT DATE : 3/21/2023 9:34 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

MATCHLINE THO1

THOMAS LN

THOMAS LN

BLUEMOUND ROAD/USH 18

N

MATCHLINE STA 368+75.00

MATCHLINE STA 363+50.00

+42.46
-47.78'LT

PT: 365+31.38

+66.92
47.16'RT

+60.54
46.89'RT

+03.14
59.68'RT

+83.97
124.06'RT

364+00

365+00

366+00

367+00

368+00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 314 E

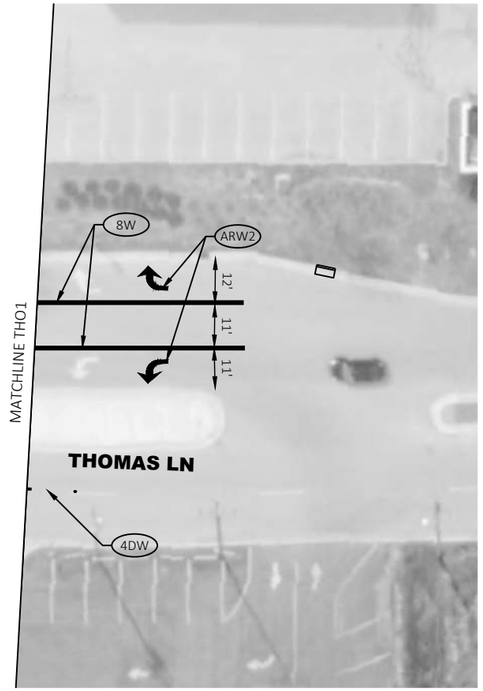
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (27)

PLOT DATE : 3/21/2023 9:34 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW)
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

N



2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 315	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (27) ThomasN
PLOT DATE : 3/21/2023 11:44 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 374+00.00

BLUEMOUND ROAD/USH 18

8W 8DLW 4DW 12DW 4W 8W 4Y 4DLY CY INE ARW2 WRD 4W 12DW

12' 12' 12' 11' 11' 11' 11' 11' 11' 11' 17' 50' 1'

+21.75 -13.93'LT
+51.55 -13.92'LT
+06.51 4.85'RT
+92.53 13.95'RT
+15.59 47.33'RT

369+00 370+00 371+00 372+00 373+00 374

MATCHLINE STA 368+75.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 316	E

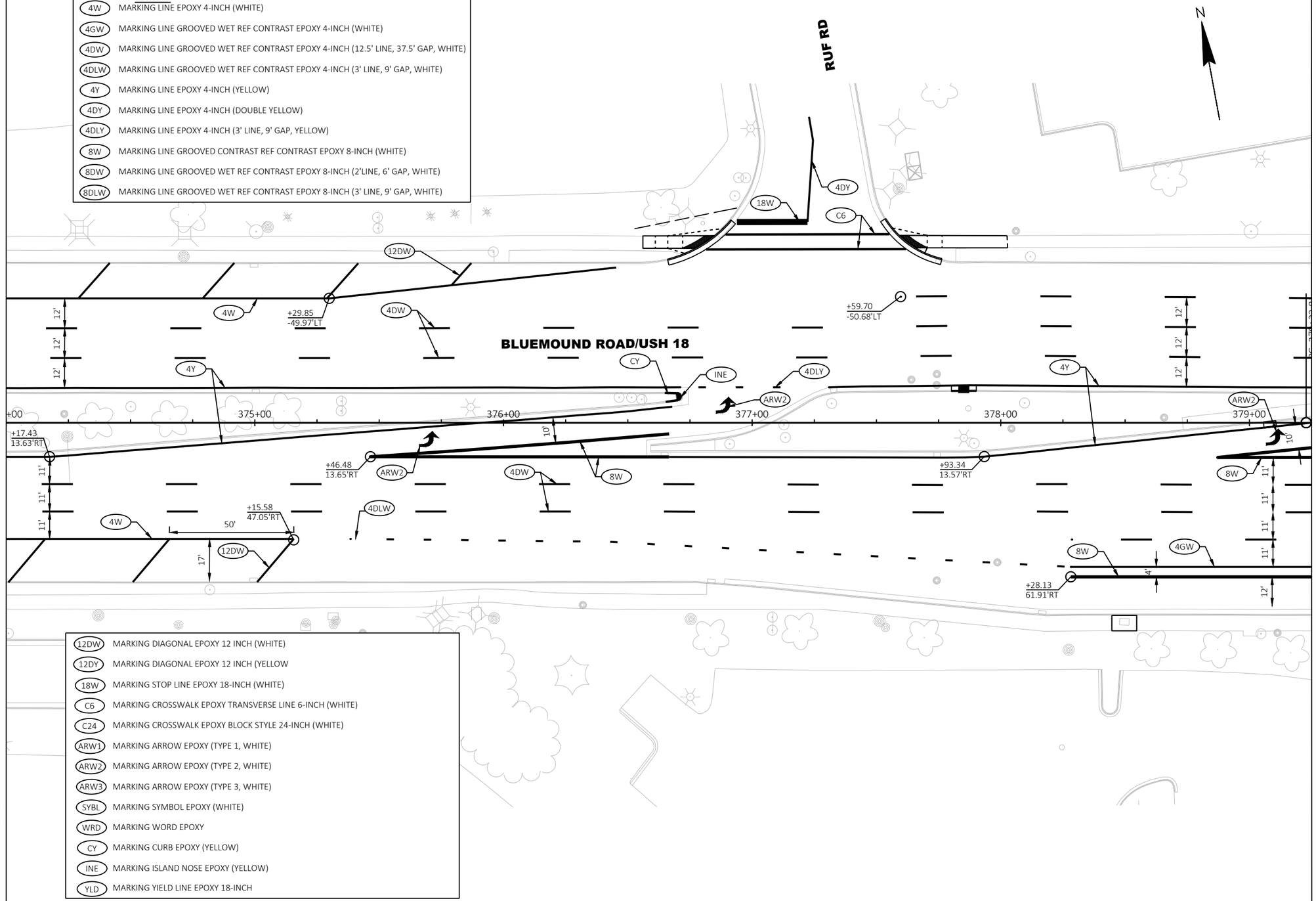
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (28)

PLOT DATE : 3/21/2023 9:34 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)



12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 317	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (29)

PLOT DATE : 3/21/2023 9:35 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

MATCHLINE EXE2

MATCHLINE STA 384+50.00

N

N EXECUTIVE DR

BLUEMOUND ROAD/USH 18

+71.88
-4.51'LT

380+00 381+00 382+00 383+00 384+00

10' 12' 11' 12' 11' 11' 11' 11' 12' 12' 12' 4'

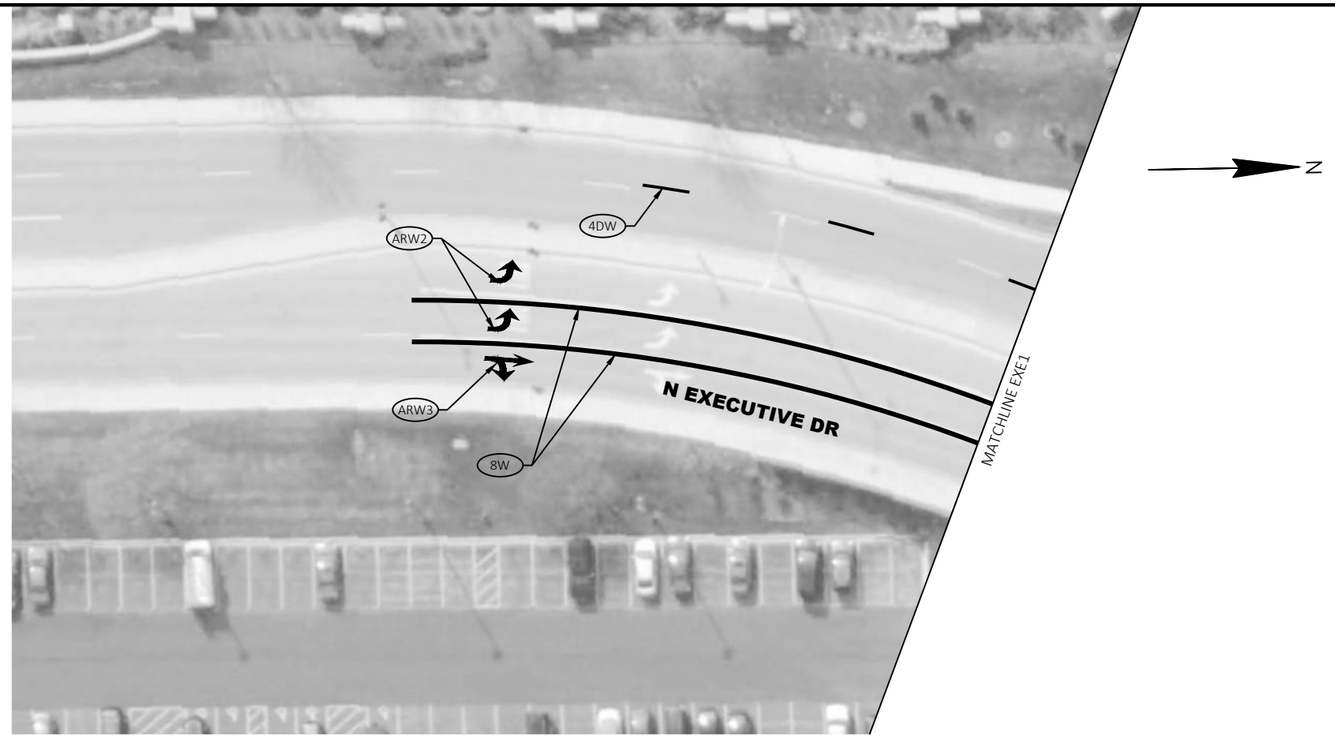
ARW2 8W C6 18W CY INE 4DW 4Y WRD 4GW 8DW R70' 4W 12DW SYBL +37.41 79.64'RT YLD 22' 11' 11' 11' ARW3 ONLY ONLY

MATCHLINE STA 379+25.00

MATCHLINE EXE1

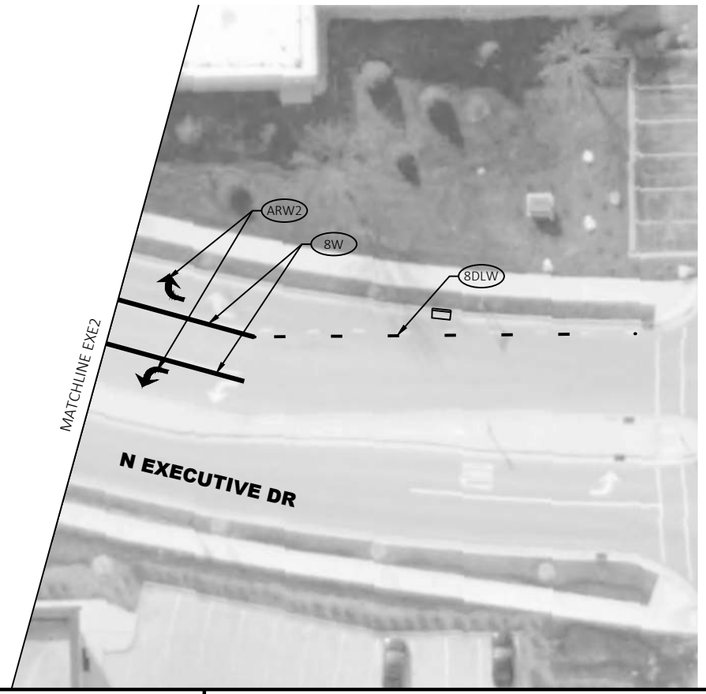
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 318 E



LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW)
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 319 E

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

N

MATCHLINE STA 389+75.00

MATCHLINE STA 384+50.00

FOUNTAIN

W

BLUEMOUND ROAD/USH 18

PT: 384+58.28

WRD 4Y 4Y 4DW 4W 12DW 4DW 8W ARW2 4Y 4DLW C6 18W ARW2 8W 4GW ARW2 WRD 8W 4Y

385+00 386+00 387+00 388+00 389+00

+01.61 -3.03'LT

+33.32 -3.06'LT

+86.22 25.33'RT

+14.17 25.33'RT

+51.25 69.20'RT

+01.73 73.33'RT

11' 10' 15' 50' 4' 12'

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 320 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (31)

PLOT DATE : 3/21/2023 9:35 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

MATCHLINE MAIN2

MAIN ST

ARW3 ARW2 11' 11' 11' 4DW 8W 18W C6 INE CY C6 C6 4DW 11' 11' 12' ARW2 18W 8W 10' R135' R100' 8DW R90' 4DW 4GW 8W 4' 15' ARW2 WRD 18W C6 C6 INE CY C6 18W INE CY +01.23 69.00'RT YLD ARW2 8W 4DW 18W MAIN ST 11' 11' 12' MATCHLINE MAIN1

ARW2 WRD 4DW 4GW 8W BLUEMOUND ROAD/USH 18 ARW2 WRD 8W ARW2 +14.78 -55.71'LT 4DLW ARW2 +45.73 25.46'RT 4DW 4Y 4W 50' 12DW 15' 12' 11' 4'

390+00 391+00 392+00 393+00 394+00 395

MATCHLINE STA 389+75.00

MATCHLINE STA 395+00.00

N

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

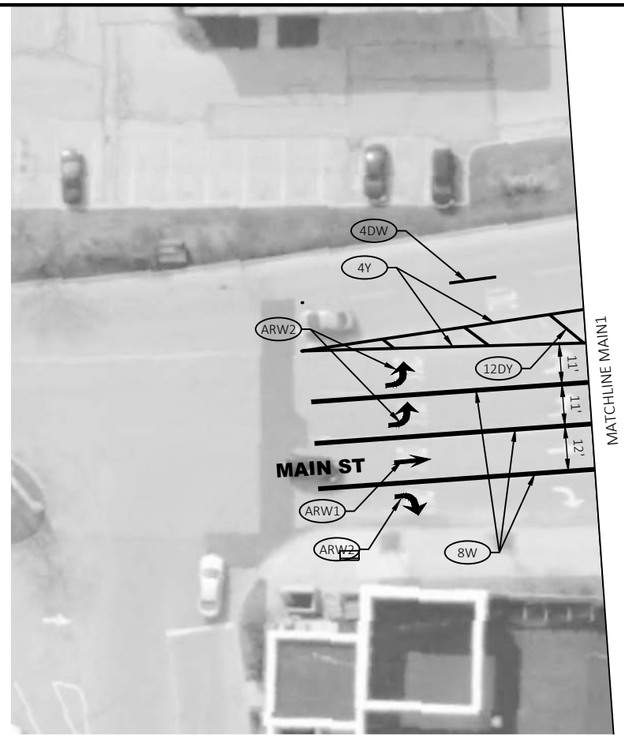
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 321	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (32)

PLOT DATE : 3/21/2023 9:35 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

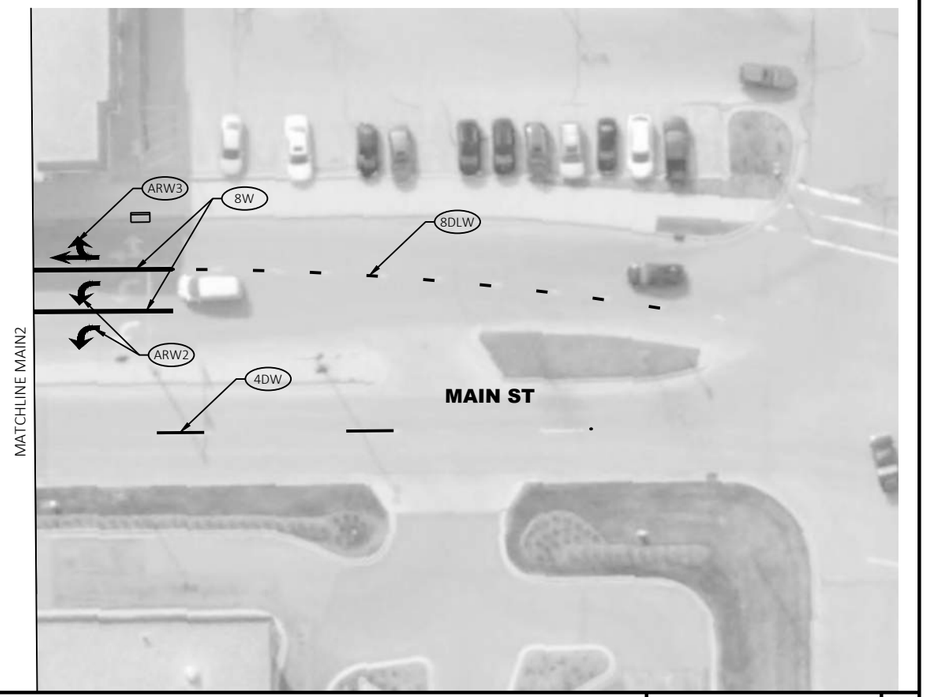
WISDOT/CADDS SHEET 42



N

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW)
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 322 E

2

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 400+25.00

RIPRAP

BLUEMOUND ROAD/USH 18

PC: 398+04.49

396+00 397+00 398+00 399+00 400+00

+61.05 25.35'RT

+12.83 69.45'RT

+43.43 62.00'RT

+26.90 22.06'RT

+26.89 19.79'RT

+44.97 68.56'RT

MATCHLINE STA 395+00.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 323 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (33)

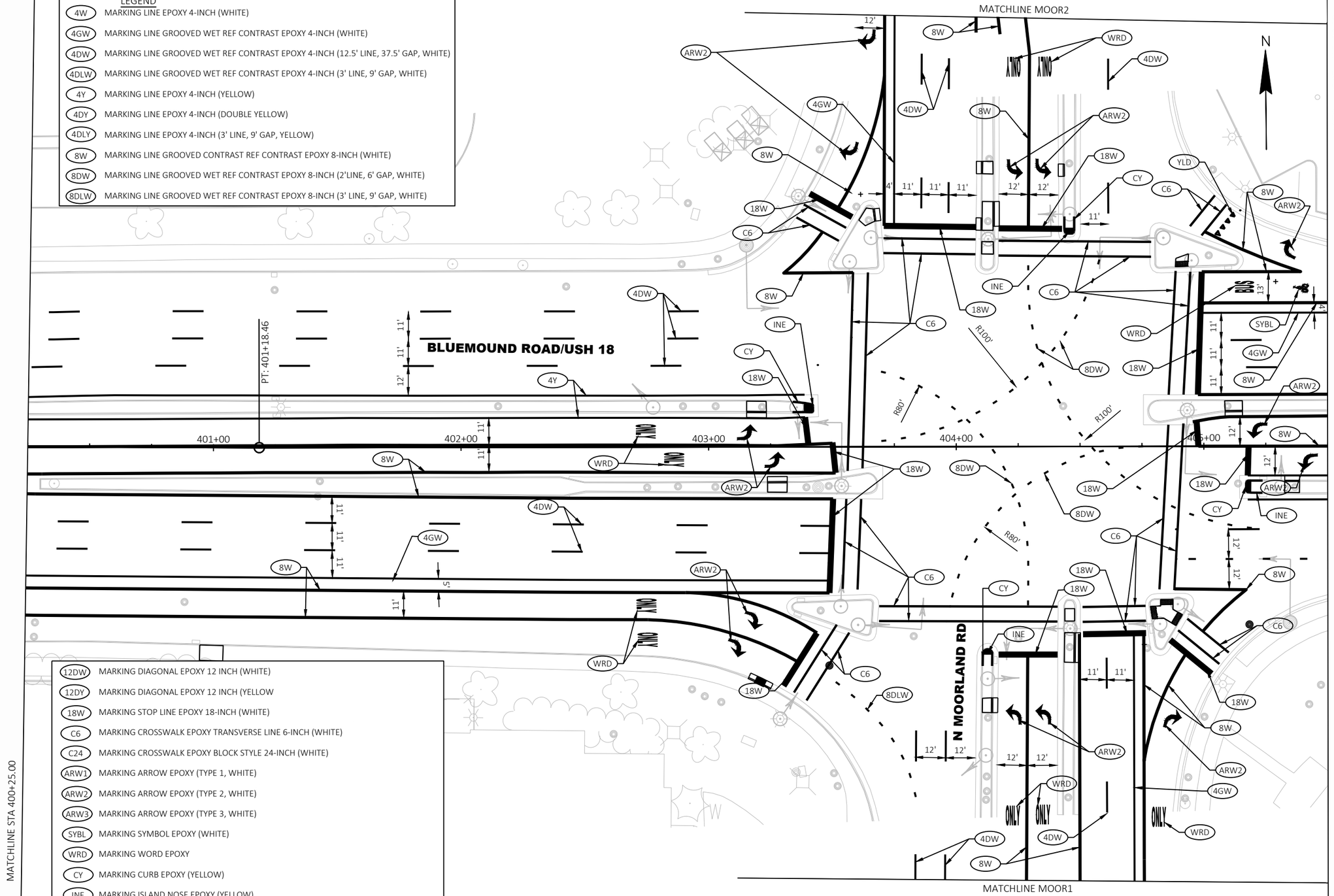
PLOT DATE : 3/21/2023 9:36 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

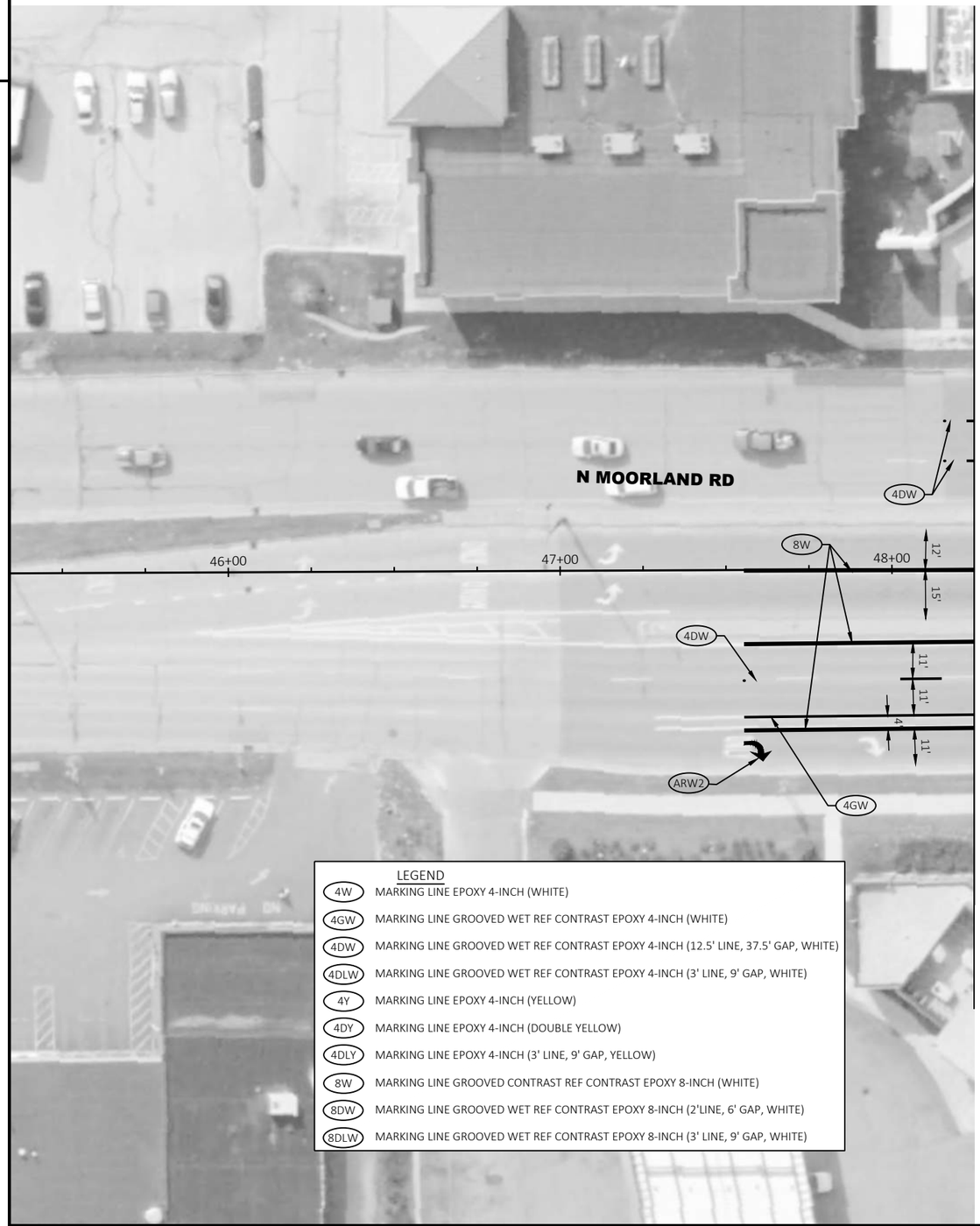
LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)



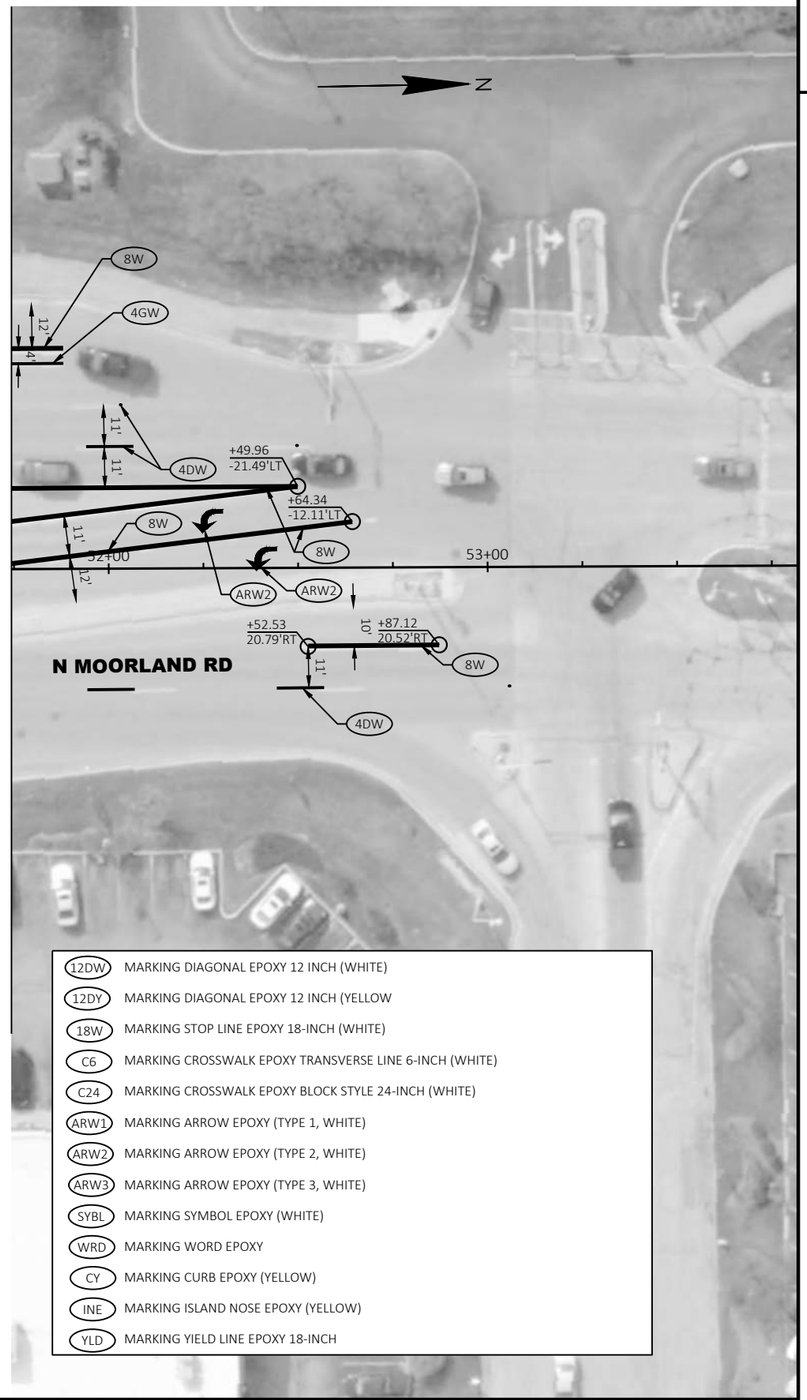
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 324 E



LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)



12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 410+75.00

WRD
8W
4GW
13'
+32.96
-58.30'LT
4'
4DLW
+95.26
-56.08'LT
12DW
4DW
4W
11'
11'
11'
BLUEMOUND ROAD/USH 18
8W
+34.12
-20.54'LT
8DLW
4Y
8W
WRD
8W
406+00
407+00
12'
408+00
ARW2
409+00
410+00
12'
+28.98
12.00'RT
ARW2
4Y
12'
12'
4DW
4DLY
8DLW
C6
18W

MATCHLINE STA 405+50.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 326	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (35)

PLOT DATE : 3/21/2023 9:37 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 416+00.00

BLUEMOUND ROAD/USH 18

411+00 412+00 413+00 414+00 415+00 416

+11.05 -18.44'LT
+56.86 -15.92'LT
+40.00 38.61'LT
+22.83 -37.87'LT
+67.40 -14.16'LT
+11.28 19.80'RT
+68.13 16.78'RT
+48.76 37.31'RT

8W 4W 4DW 12DW 4Y ARW2 WRD YLD CY INE 8DLW

14' 50' 12' 12' 12' 12' 12' 10' 12' 17'

N FAIRWAY DR

MATCHLINE STA 410+75.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

2

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 421+25.00

TERRACE DR

PC: 416+31.61

WRD

ARW2

15'

12'

11'

+39.62
-36.54'LT

4DW

+62.11
-37.26'LT

8W

+20.34
-38.93'LT

8DLW

+65.49
-38.00'LT

12DW

4W

+62.32
-13.25'LT

+40.15
-12.54'LT

BLUEMOUND ROAD/USH 18

+28.00
-14.93'LT

INE

CY

+00

417+00

418+00

419+00

420+00

421+00

+43.57
36.75'RT

+08.44
13.46'RT

4Y

+68.56
38.06'RT

+89.55
37.90'RT

+07.17
37.88'RT

17'

MATCHLINE STA 416+00.00

WESTMOOR DR

N PROSPECT DR

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 328 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (37)

PLOT DATE : 3/21/2023 9:37 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 426+50.00

MATCHLINE STA 421+25.00

BLUEMOUND ROAD/USH 18

N LEANORE LN

PT: 423+11.35

422+00 423+00 424+00 425+00 426+00

12DW 14' 50' 4DW 8W 12' 4W 4Y CY INE ARW2 11' 4DW 8DLW 16' 8DLW 14'

+52.59 11.81'RT

+67.22 12.60'RT

+63.37 36.63'RT

+58.86 36.64'RT

+67.71 -13.82'LT

+88.65 -13.85'LT

+81.45 38.07'RT

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 329 E

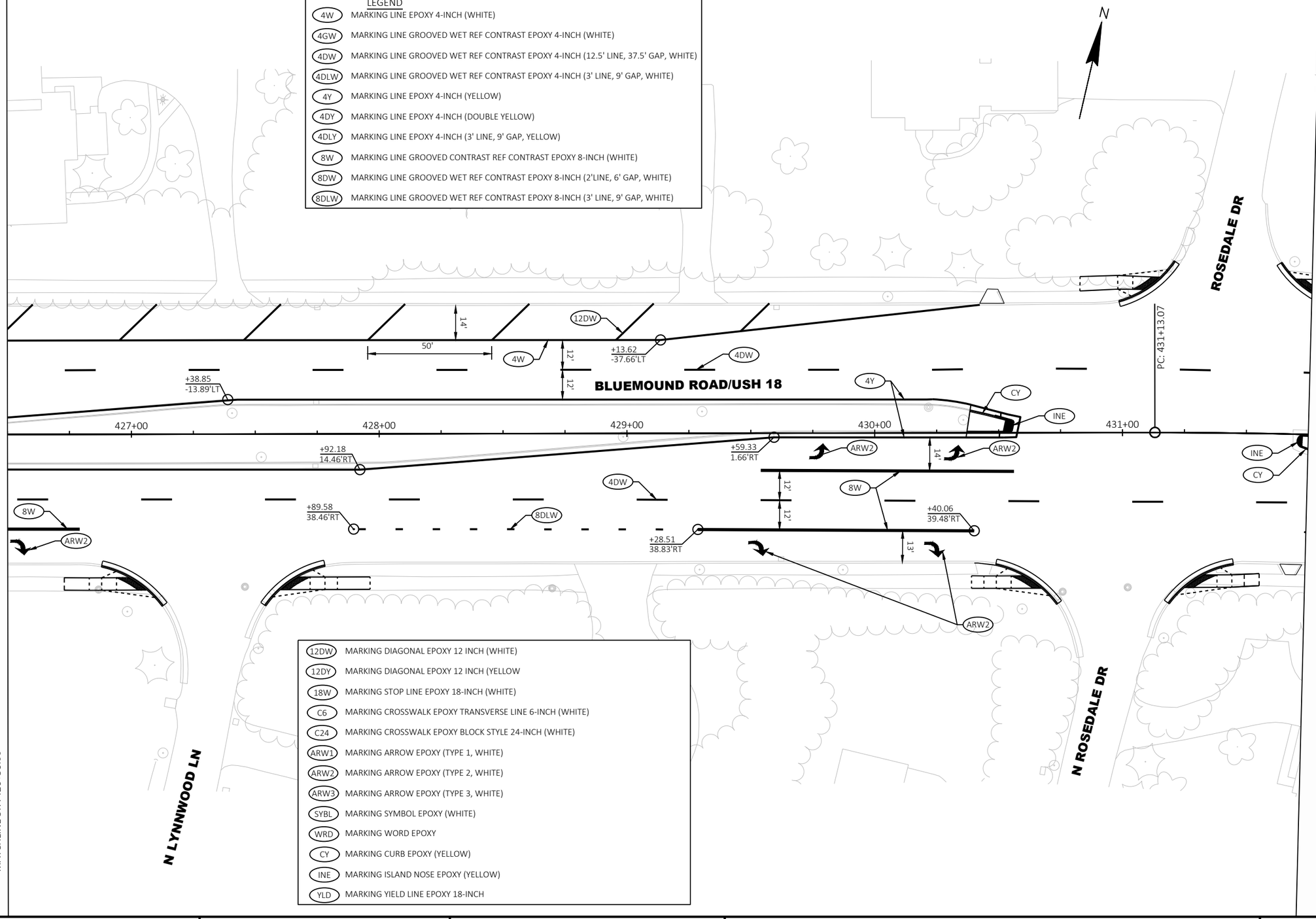
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (38)

PLOT DATE : 3/21/2023 9:37 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)



12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

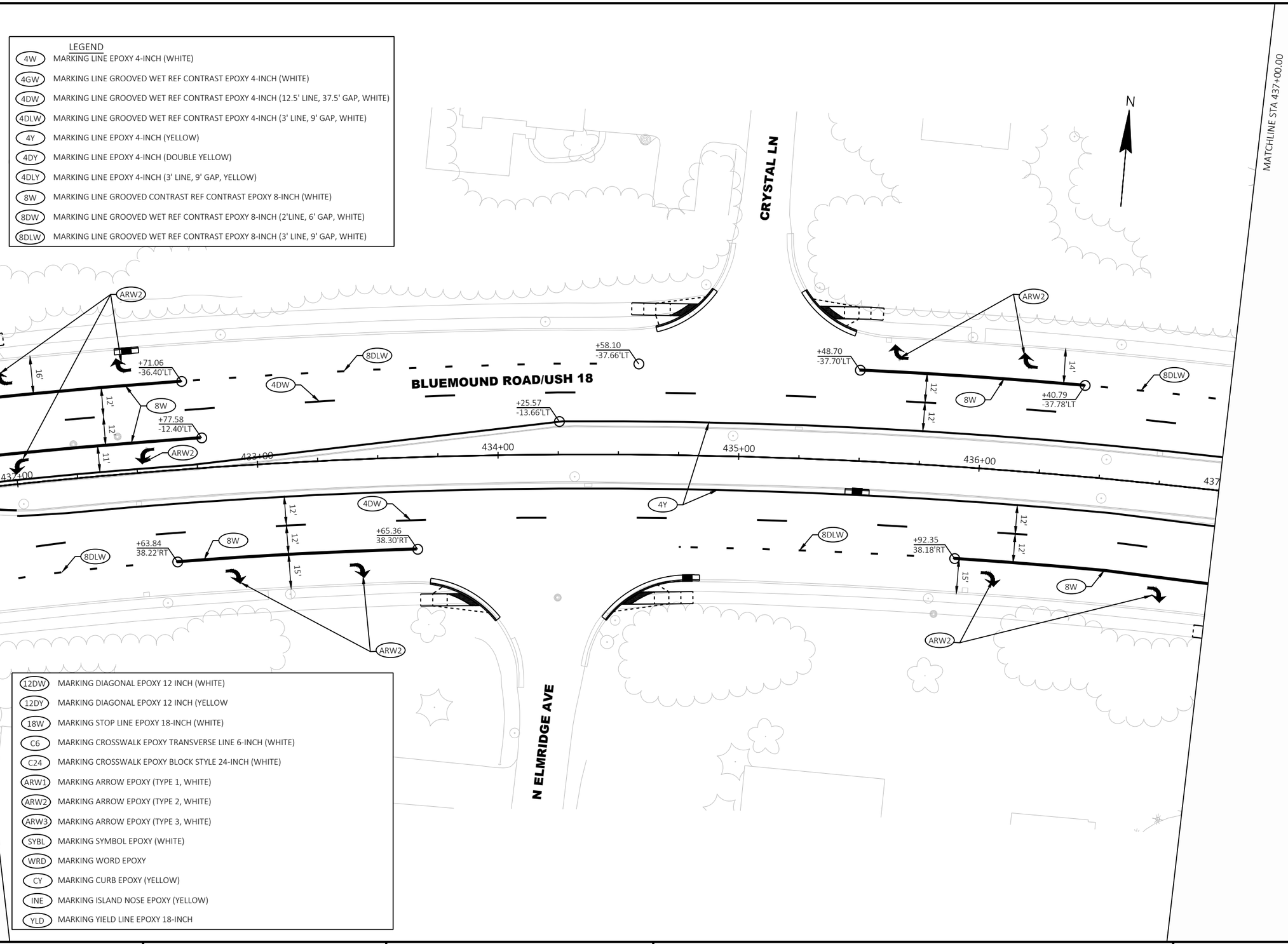
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 330 E

2

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)



12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

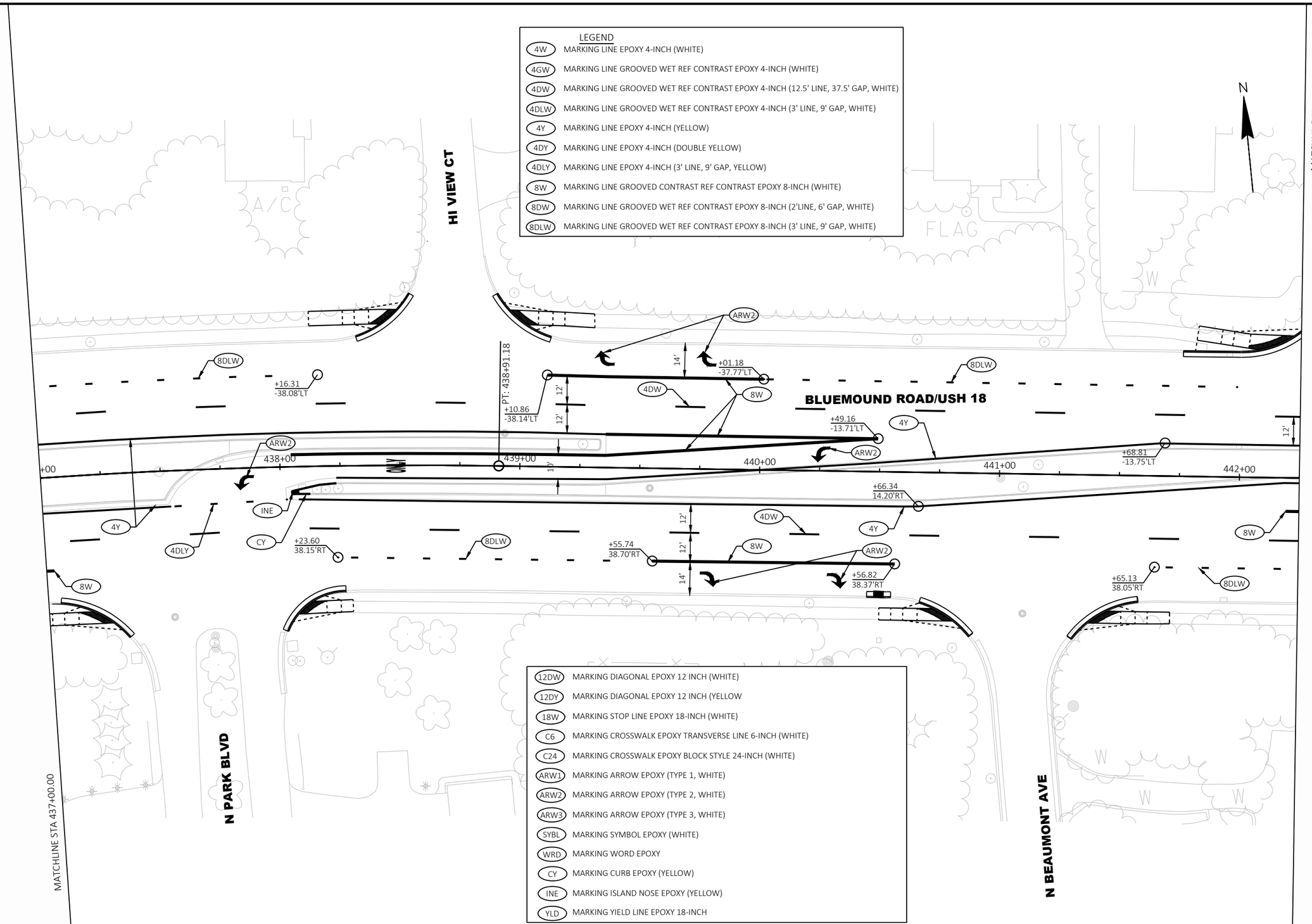
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 331	E

2

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)



12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 332 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (41)

PLOT DATE : 3/21/2023 9:38 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 447+50.00

VERNON PL

FLAG

W

BLUEMOUND ROAD/USH 18

ARW2

+01.24
-37.42'LT

+91.53
-37.31'LT

15'

8DLW

4DW

8W

12'

4Y

CY

INE

443+00

444+00

445+00

446+00

447+00

PI: 446+91.56

+45.47
-13.25'LT

+78.52
-13.15'LT

11'

+26.38
-13.73'LT

+54.98
13.85'RT

+51.14
37.85'RT

+79.57
37.88'RT

+37.96
38.12'RT

50'

13'

4W

12DW

MATCHLINE STA 442+25.00

N EASTMOOR AVE

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

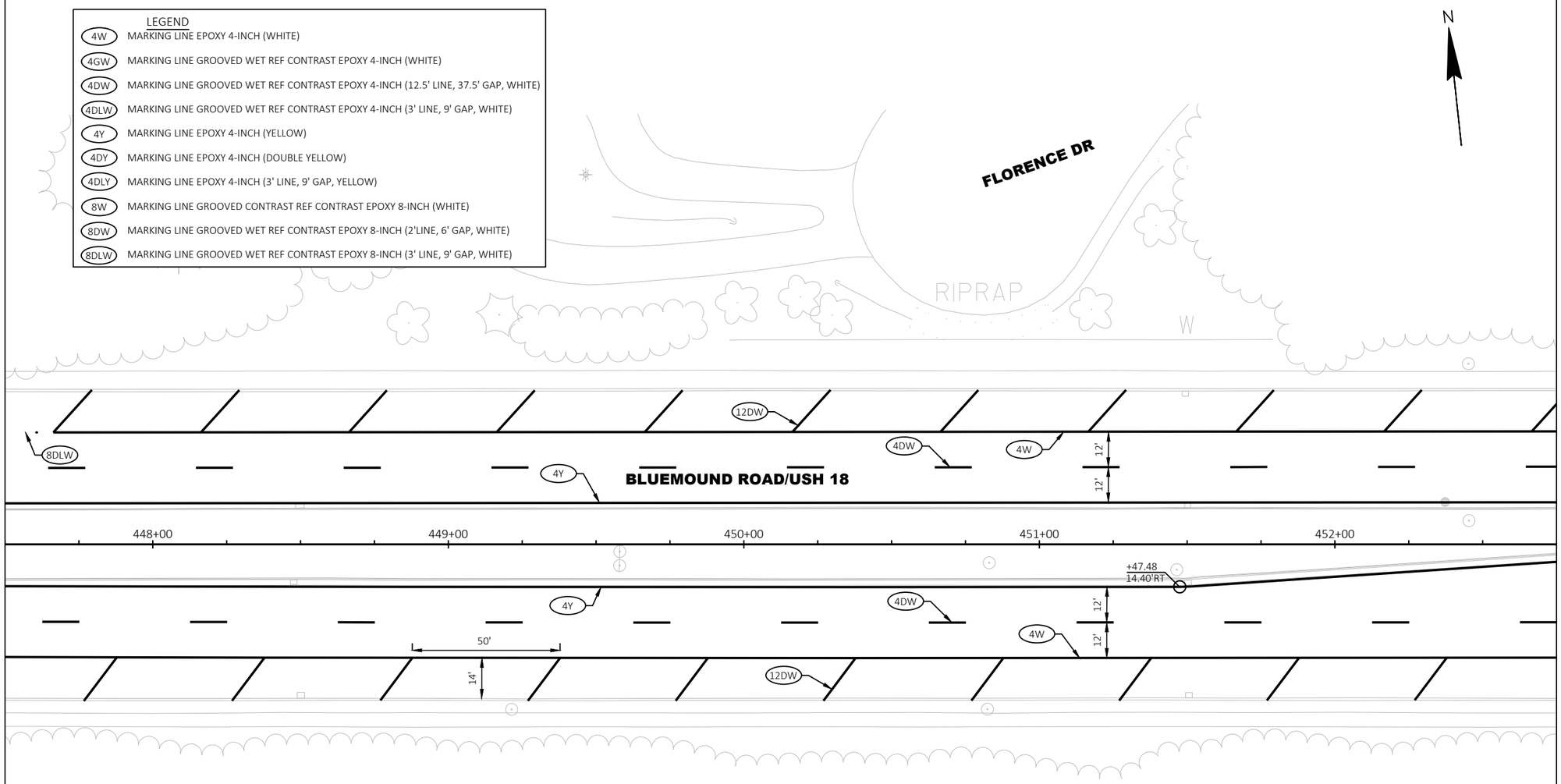
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 333	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (42)
PLOT DATE : 3/21/2023 9:38 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)



MATCHLINE STA 452+75.00

MATCHLINE STA 447+50.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 334	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (43)

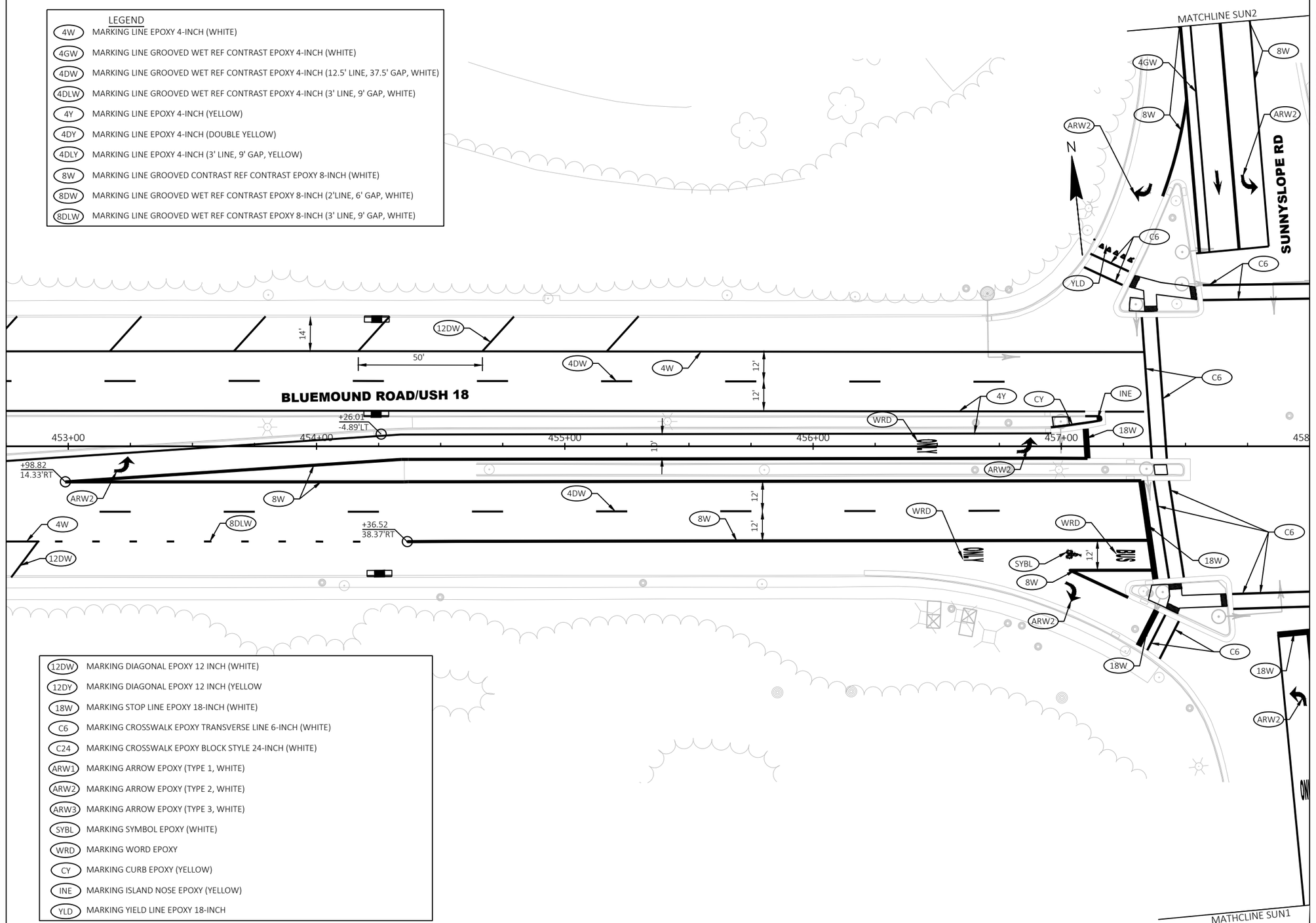
PLOT DATE : 3/21/2023 9:38 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)



12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 335 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (44)

PLOT DATE : 3/21/2023 9:38 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 463+25.00

BLUEMOUND ROAD/USH 18

SUNNYSLOPE RD

MATCHLINE STA 458+00.00

MATCHLINE SUN1

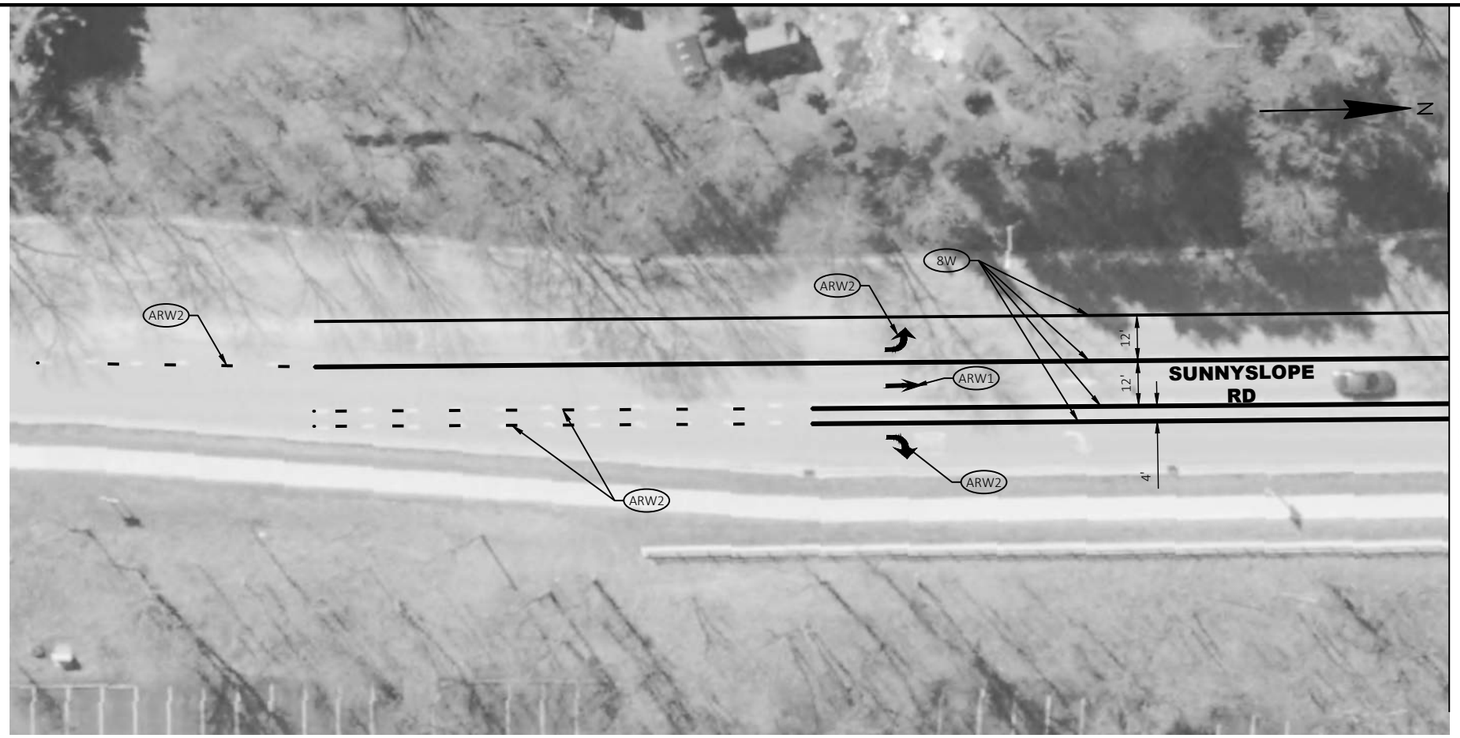
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 336 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (45)

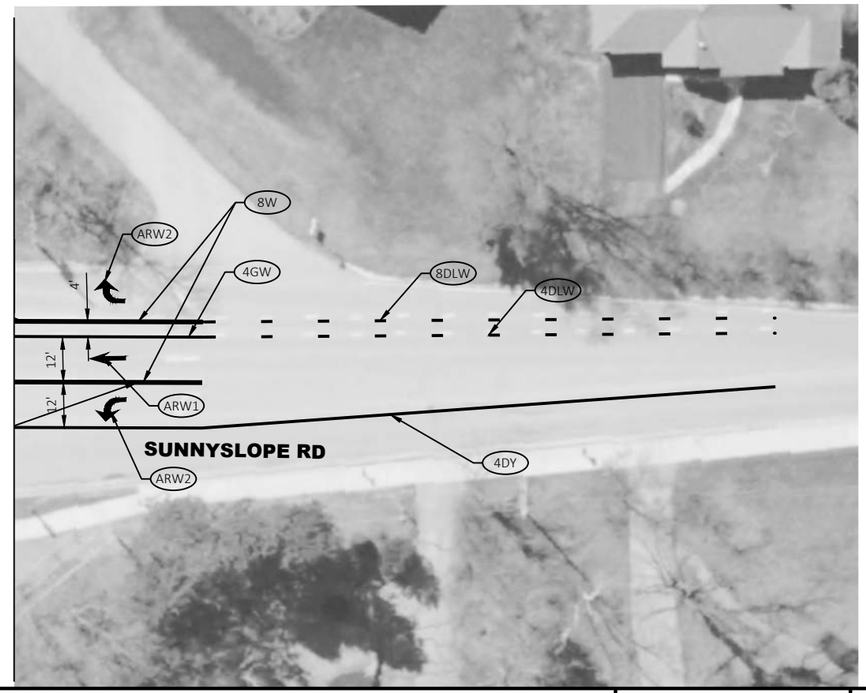
PLOT DATE : 3/21/2023 9:38 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW)
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH



2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 468+50.00

MATCHLINE STA 463+25.00

12DW 4W PC: 463+90.32 4Y CY INE ARW2 8W 4Y ARW2 12' 12' 11' +48.03 12.87'RT 464+00 465+00 466+00 467+00 468+00 WRD ARW2 ARW2 14' +66.09 -37.65'LT 8DLW 4DW 12' +40.41 -12.91'LT ARW2 +69.70 -13.71'LT 8W 11' CY INE 4DW 12' 12' 4W 12DW 50' 15' 4Y +06.13 14.15'RT +00.02 38.15'RT 8DLW

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 338	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (46)

PLOT DATE : 3/21/2023 9:39 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 473+75.00

MATCHLINE STA 468+50.00

PT: 469+26.19

+81.30
-37.78'LT

12DW

15'

50'

4W

4DW

4Y

12'

12'

CY

INE

ARW2

469+00

470+00

471+00

472+00

473+00

11'

+00.01
13.26'RT

+77.03
12.77'RT

4DW

8W

8W

12'

8DLW

+33.35
36.70'RT

12'

16'

ARW2

ARW2

BLUEMOUND ROAD/USH 18

4DW

8W

8W

WRD

12'

INE

CY

ARW2

4Y

12'

4DW

+88.32
50.22'RT

8W

12DW

+58.52
51.76'RT

4W

BISHOP WAY

BISHOP WAY

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 339 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (47)

PLOT DATE : 3/21/2023 9:39 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 479+00.00

PARK CIR

BLUEMOUND ROAD/USH 18

C6

+46.60
-37.76'LT

8W

+08.64
-13.71'LT

ARW2

4Y

+08.70
-13.61'LT

4DW

4W

12DW

12'

CY

4DLY

INE

WRD

4Y

474+00

475+00

476+00

477+00

478+00

479

1'

10'

+23.86
14.18'RT

4Y

+22.72
14.08'RT

ARW2

8W

+63.44
14.00'RT

+89.35
14.01'RT

8W

+40.86
38.16'RT

4W

12'

4DW

50'

12DW

14'

MATCHLINE STA 473+75.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 340	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (48)

PLOT DATE : 3/21/2023 9:39 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE ELM2

MATCHLINE STA 484+25.00

MATCHLINE STA 479+00.00

BLUEMOUND ROAD/USH 18

ELM GROVE RD

ELM GROVE RD

PC: 484+27.46

14'

50'

12'

12'

10'

12'

12'

15'

+99.05
4.75'LT

+30.36
38.02'RT

480+00

481+00

482+00

483+00

484+00

ONLY

BUS

ONLY

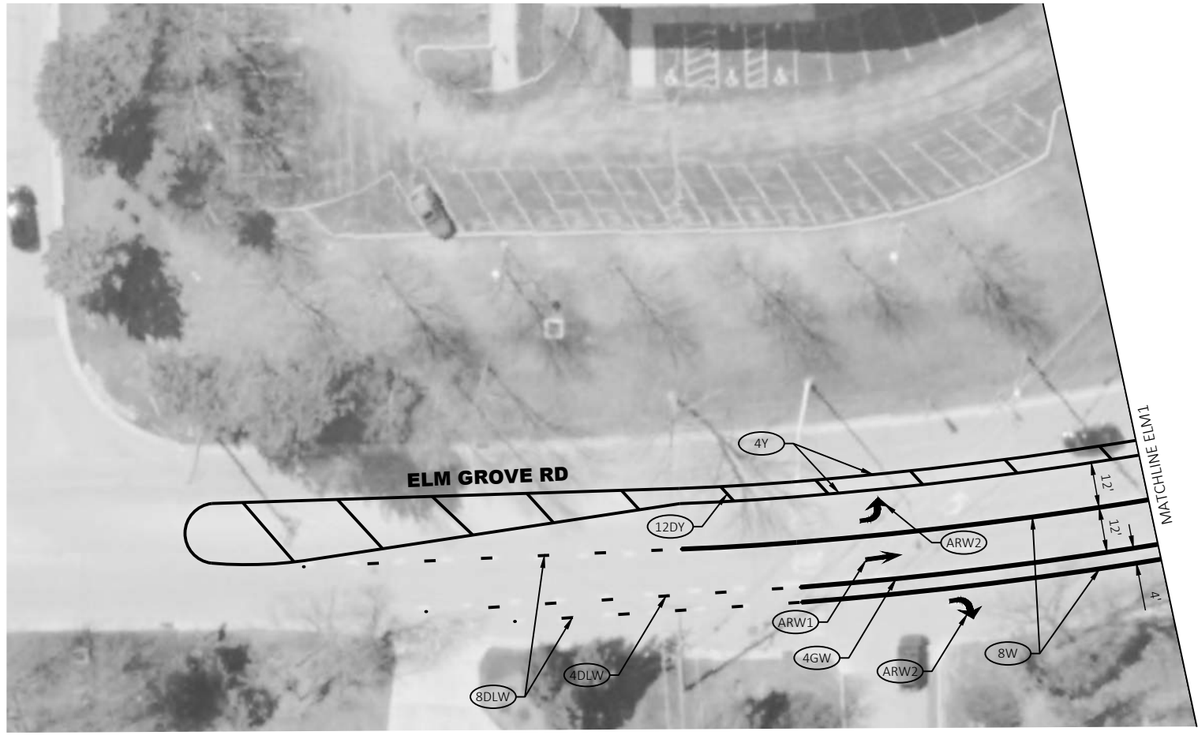
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

MATCHLINE ELM1

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 341	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (49)

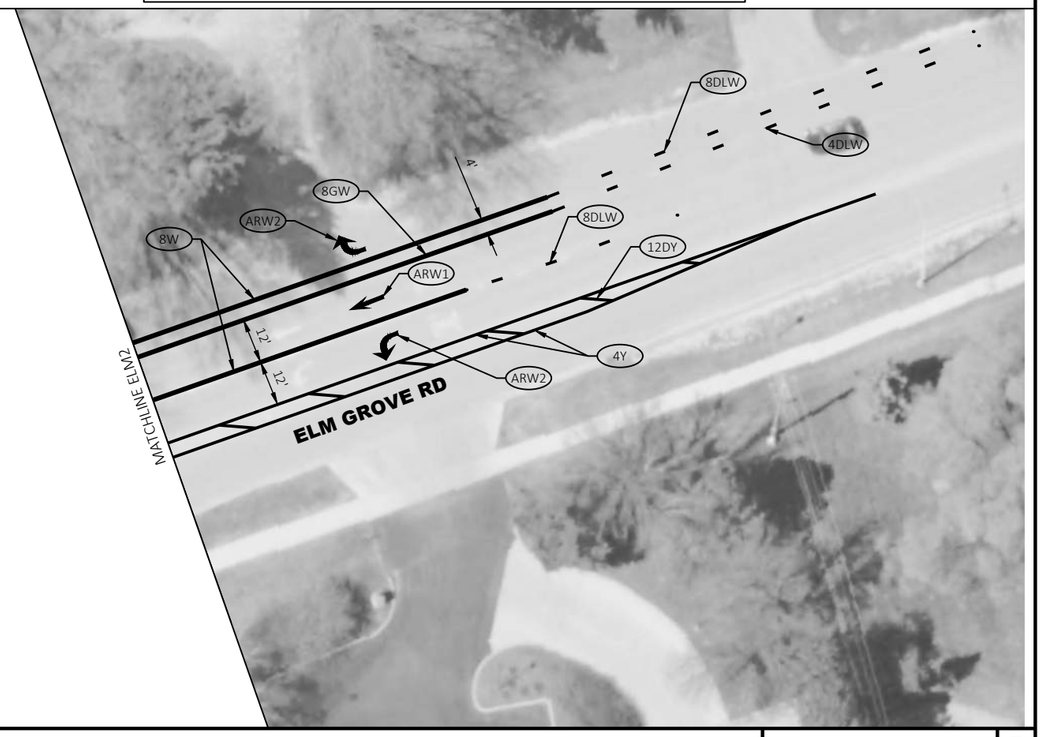
PLOT DATE : 3/21/2023 9:39 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT



LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW)
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

N



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 342 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (49) ElmGrove

PLOT DATE : 3/21/2023 11:46 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 489+50.00

MATCHLINE STA 484+25.00

BLUEMOUND ROAD/USH 18

U/C

U/C

POST

POST

POST

W

485+00

486+00

487+00

488+00

489+00

ARW2 WRD 8W BUS ONLY 12' SYBL WRD 18W 4DW 8W ARW2 18W WRD C6 CY INE 8W C6 YLD ARW2 8W ONLY ONLY WRD 4' 12'

+74.46 -37.79'LT 8DLW +55.47 -37.21'LT 12' 12' 4W PT: 488+26.76 12DW 15' 50' +84.47 -13.50'LT ARW2 ARW2 12' 12' +72.48 13.40'RT 4Y +04.06 13.57'RT ARW2 8W +41.20 37.69'RT 4W +42.48 36.81'RT 12DW 4W 4Y 8DLW +70.66 37.38'RT

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 343	E

2

2

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 494+75.00

BLUEMOUND ROAD/USH 18

4W 14' 12DW

50' 12' 12' 4DW 4Y INE CY 4DLY 4Y 4W 4DW

+18.24 -13.95'LT

490+00 491+00 492+00 493+00 494+00

10' 10'

WRD ARW2 +81.05 14.00'RT +63.62 14.05'RT ARW2 +35.65 5.31'RT WRD

12' 12' 12' 4DW 8W 4Y 8W 12' 12'

+62.13 37.99'RT

ARW2 4W WRD ARW2 8DLW 4W 4DW 8W +88.04 37.99'RT ARW2

N COLUMBIA BLVD

MATCHLINE STA 489+50.00

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 344	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (51)

PLOT DATE : 3/21/2023 9:40 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

MATCHLINE UND2

N

MATCHLINE STA 500+00.00

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

BLUEMOUND ROAD/USH 18

UNDERWOOD CROSSING PKWY

ONLY ONLY

495+00 496+00 497+00 498+00 499+00 500

+54.88 -13.92'LT

+41.80 13.84'RT

+47.89 4.20'RT

+91.64 38.04'RT

50'

MATCHLINE STA 494+75.00

MATCHLINE UND1

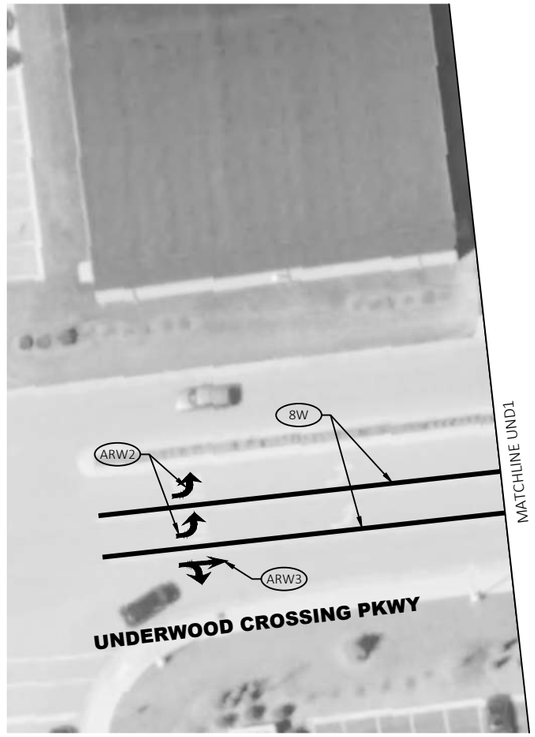
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 345	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (52)

PLOT DATE : 3/21/2023 9:40 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



N

LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)
12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW)
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

2

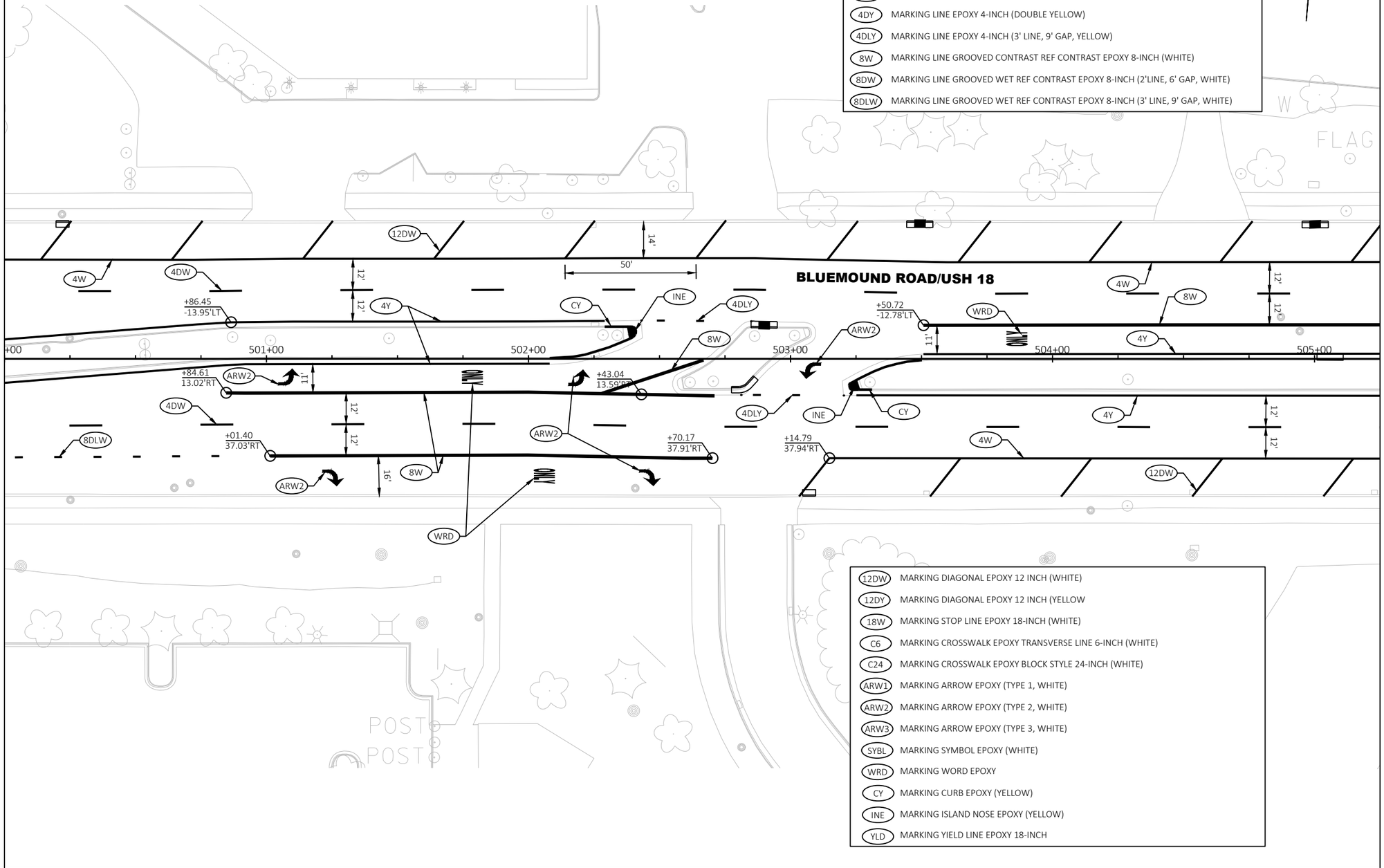
2

LEGEND

- 4W — MARKING LINE EPOXY 4-INCH (WHITE)
- 4GW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
- 4DW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
- 4DLW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
- 4Y — MARKING LINE EPOXY 4-INCH (YELLOW)
- 4DY — MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- 4DLY — MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
- 8W — MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
- 8DW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
- 8DLW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

N

MATCHLINE STA 505+25.00



MATCHLINE STA 500+00.00

- 12DW — MARKING DIAGONAL EPOXY 12 INCH (WHITE)
- 12DY — MARKING DIAGONAL EPOXY 12 INCH (YELLOW
- 18W — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- C6 — MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- C24 — MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- ARW1 — MARKING ARROW EPOXY (TYPE 1, WHITE)
- ARW2 — MARKING ARROW EPOXY (TYPE 2, WHITE)
- ARW3 — MARKING ARROW EPOXY (TYPE 3, WHITE)
- SYBL — MARKING SYMBOL EPOXY (WHITE)
- WRD — MARKING WORD EPOXY
- CY — MARKING CURB EPOXY (YELLOW)
- INE — MARKING ISLAND NOSE EPOXY (YELLOW)
- YLD — MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 347	E

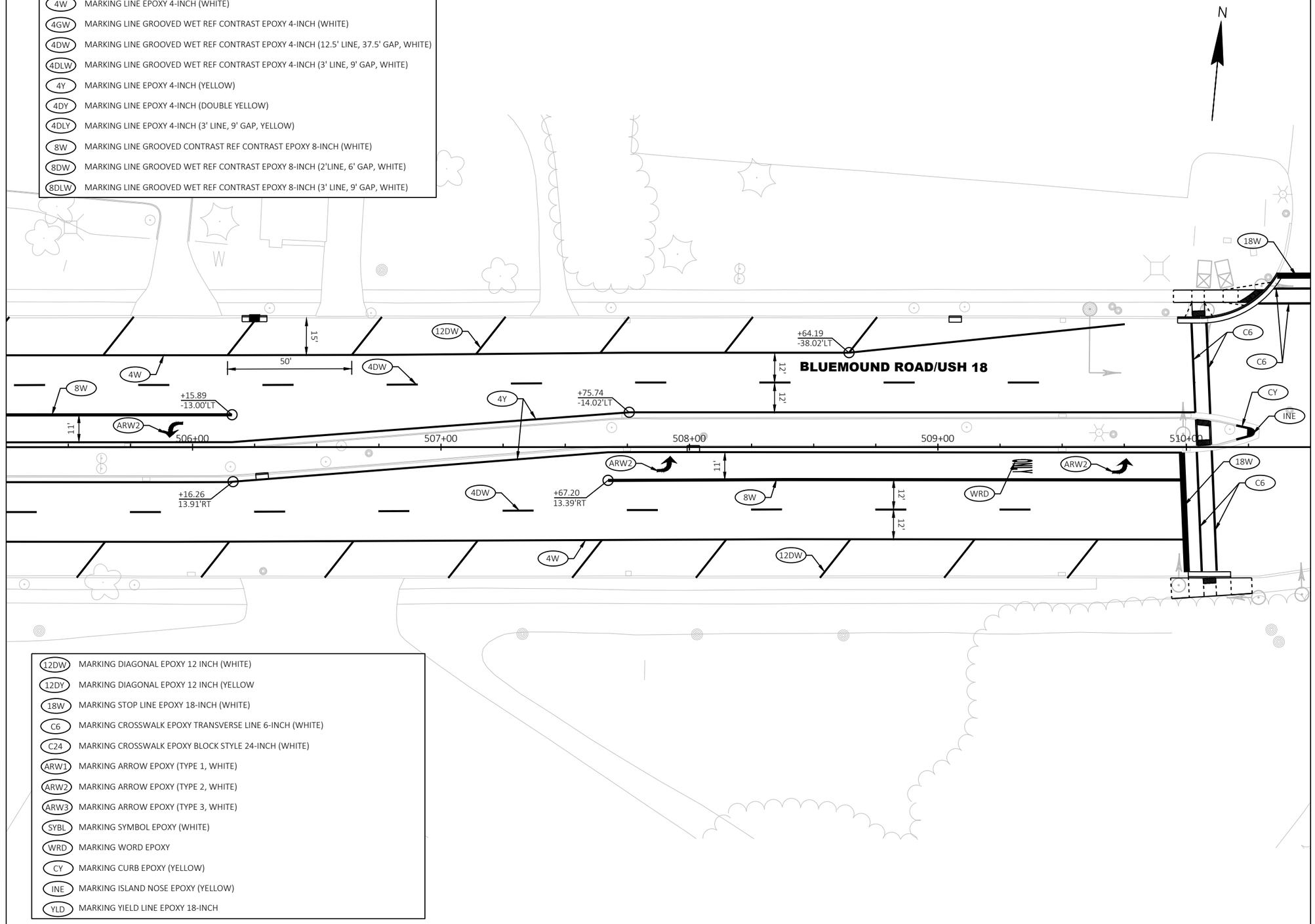
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (53)

PLOT DATE : 3/21/2023 9:41 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- 4W — MARKING LINE EPOXY 4-INCH (WHITE)
- 4GW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
- 4DW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
- 4DLW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
- 4Y — MARKING LINE EPOXY 4-INCH (YELLOW)
- 4DY — MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- 4DLY — MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
- 8W — MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
- 8DW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
- 8DLW — MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)



- 12DW — MARKING DIAGONAL EPOXY 12 INCH (WHITE)
- 12DY — MARKING DIAGONAL EPOXY 12 INCH (YELLOW
- 18W — MARKING STOP LINE EPOXY 18-INCH (WHITE)
- C6 — MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- C24 — MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
- ARW1 — MARKING ARROW EPOXY (TYPE 1, WHITE)
- ARW2 — MARKING ARROW EPOXY (TYPE 2, WHITE)
- ARW3 — MARKING ARROW EPOXY (TYPE 3, WHITE)
- SYBL — MARKING SYMBOL EPOXY (WHITE)
- WRD — MARKING WORD EPOXY
- CY — MARKING CURB EPOXY (YELLOW)
- INE — MARKING ISLAND NOSE EPOXY (YELLOW)
- YLD — MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 348	E

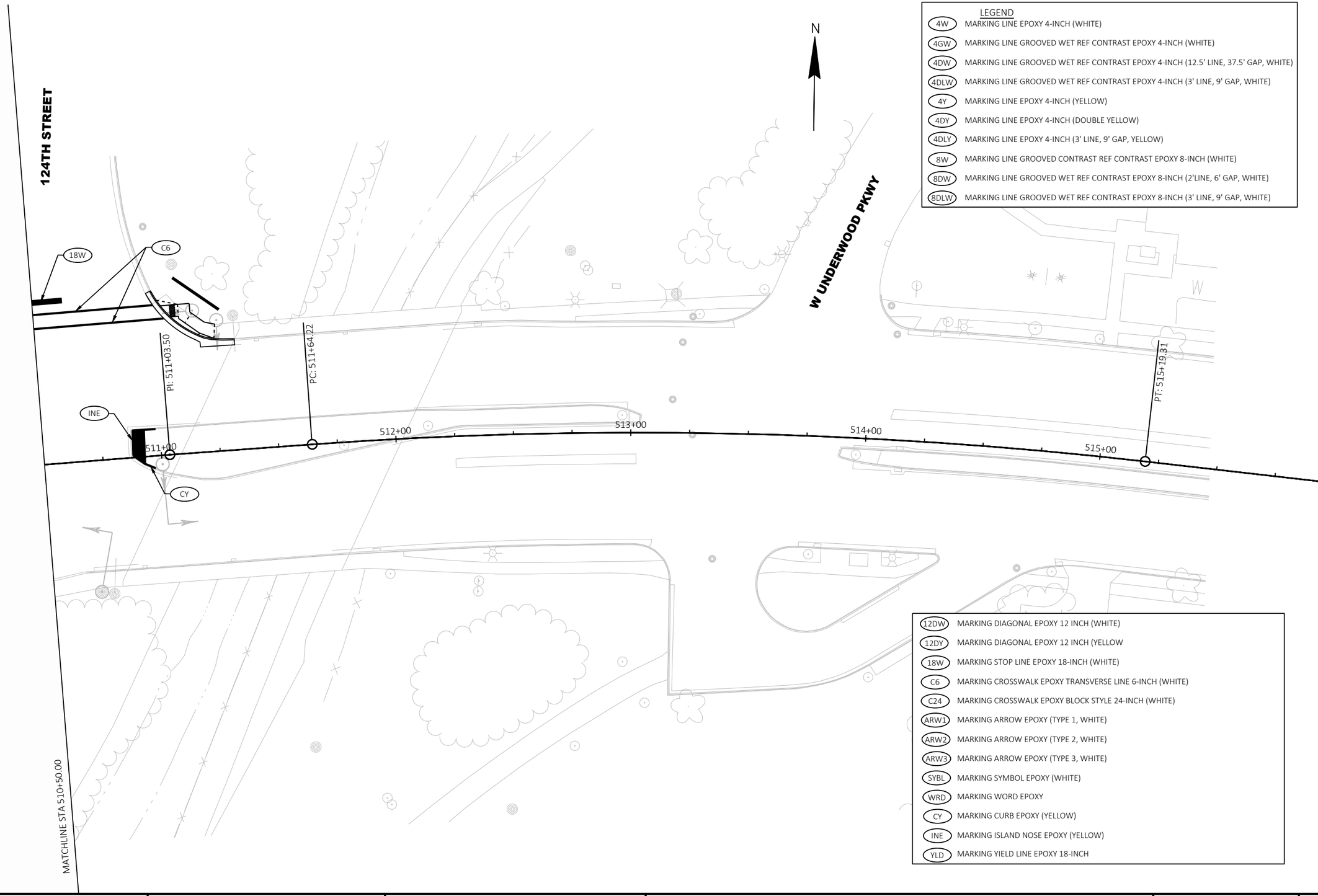
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (54)

PLOT DATE : 3/21/2023 9:41 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2



LEGEND

4W	MARKING LINE EPOXY 4-INCH (WHITE)
4GW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE)
4DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (12.5' LINE, 37.5' GAP, WHITE)
4DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH (3' LINE, 9' GAP, WHITE)
4Y	MARKING LINE EPOXY 4-INCH (YELLOW)
4DY	MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
4DLY	MARKING LINE EPOXY 4-INCH (3' LINE, 9' GAP, YELLOW)
8W	MARKING LINE GROOVED CONTRAST REF CONTRAST EPOXY 8-INCH (WHITE)
8DW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (2'LINE, 6' GAP, WHITE)
8DLW	MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH (3' LINE, 9' GAP, WHITE)

12DW	MARKING DIAGONAL EPOXY 12 INCH (WHITE)
12DY	MARKING DIAGONAL EPOXY 12 INCH (YELLOW
18W	MARKING STOP LINE EPOXY 18-INCH (WHITE)
C6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
C24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
ARW1	MARKING ARROW EPOXY (TYPE 1, WHITE)
ARW2	MARKING ARROW EPOXY (TYPE 2, WHITE)
ARW3	MARKING ARROW EPOXY (TYPE 3, WHITE)
SYBL	MARKING SYMBOL EPOXY (WHITE)
WRD	MARKING WORD EPOXY
CY	MARKING CURB EPOXY (YELLOW)
INE	MARKING ISLAND NOSE EPOXY (YELLOW)
YLD	MARKING YIELD LINE EPOXY 18-INCH

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 349 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - Sheet - (55)

PLOT DATE : 3/21/2023 9:41 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL:

1. TRAFFIC CONTROL DRUMS IN TAPERS SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS, UNLESS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION AND SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
3. SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED. THE COVERING OF TYPE II SIGNS IS INCLUDED UNDER THE BID ITEM TRAFFIC CONTROL COVERING SIGNS TYPE II.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
5. ALL TRAFFIC CONTROL SIGNS SHALL BE 48"X48" UNLESS OTHERWISE NOTED IN THE PLANS.
6. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.
7. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
8. ADEQUATE TURNING PROVISIONS SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS.
9. EXISTING PAVEMENT MARKINGS TO BE REMOVED THAT WILL NOT BE REPLACED IN THE SAME LOCATION AFTER CONSTRUCTION SHALL BE REMOVED USING MARKING REMOVAL LINE WATER BLASTING. DO NOT GRIND EXISTING PAVEMENT MARKINGS THAT WILL NOT BE REPLACED AFTER CONSTRUCTION.
10. BARRICADE STRIPES SHALL POINT DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.
11. THE CONTRACTOR SHALL ENSURE ADEQUATE DRAINAGE AND AVOID ANY PONDING OR STANDING WATER DURING THE STAGED CONSTRUCTION.
12. TEMPORARY MARKINGS SHALL BE TEMPORARY TAPE WHEN PLACED ON NEW OR EXISTING PAVEMENT SURFACES THAT ARE TO REMAIN IN PLACE FOLLOWING CONSTRUCTION. PAINT MAY BE USED ON EXISTING PAVEMENT OR BINDER HMA LAYERS THAT ARE TO BE REMOVED OR OVERLAID IN SUBSEQUENT STAGES.
13. PLACE ROADWORK AHEAD SIGNS (W20-1A) ON ALL SIDE ROADS IN ACCORDANCE WITH SDD "BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES."
14. SHIFT TRAVEL LANES FOR OFF-PEAK WORK IN ACCORDANCE WITH SDD "TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/EXPRESSWAY OR MULTILANE DIVIDED 45MPH OR UNDER" AND "TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED."
15. MILL AND PAVE SIDEROADS DURING OFF-PEAK HOURS BY CLOSING PORTIONS OF THE SIDEROAD WHILE MAINTAINING TRAFFIC IN OPEN LANES. UTILIZE FLAGGERS WHERE CLOSING ONLY A PORTION OF THE SIDEROAD IS NOT POSSIBLE TO MAINTAIN ACCESS. FOLLOW STANDARD DETAIL DRAWINGS FOR TEMPORARY LANE CLOSURES AND FLAGGING OPERATIONS. OPEN SIDEROADS TO NORMAL TRAFFIC LANES PRIOR TO DAYTIME HOURS EACH DAY.
16. PLACE W8-11 UNEVEN LANE SIGNS AT THE START AND AT EVERY 0.5 MILE OF ADJACENT TRAVEL LANES THAT ARE OPEN TO TRAFFIC WITH GREATER THAN 0.5' VERTICAL DIFFERENCE.
17. PLACE W8-1 BUMP SIGNS AT VERTICAL TRANSVERSE LANE EDGES GREATER THAN 0.5" THAT ARE OPEN TO TRAFFIC.

TRAFFIC CONTROL - GENERAL SEQUENCE OF OPERATIONS

STAGE 1:

1. FROM WESTMOOR DRIVE TO THE PROJECT END, CLOSE THE BLUEMOUND ROAD AUXILIARY LANE AND RESTRICT TRAFFIC TO TWO TRAVEL LANES DURING PEAK HOURS. THE RIGHT TRAVEL LANES MAY BE CLOSED DURING OFF-PEAK HOURS.
2. BASE PATCH CONCRETE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
3. MILL THE EXISTING ASPHALTIC SURFACE TO THE TOP OF EXISTING CONCRETE AND OVERLAY WITH BINDER AND SURFACE COURSE OF HMA PAVEMENT BEFORE MOVING ON TO STAGE 2. PAVE SURFACE COURSE OF HMA PAVEMENT WITHIN 14 CALENDAR DAYS OF PAVING THE BINDER COURSE.
4. DETOUR PEDESTRIANS PRIOR TO REMOVING CONCRETE CURB RAMPS IN ACCORDANCE WITH THE STANDARD DETAIL DRAWINGS AND CONSTRUCTION DETAILS. COMPLETE EACH CURB RAMP REPLACEMENT WITHIN 10 WORKING DAYS OF DETOURING PEDESTRIANS AT THAT LOCATION.

STAGE 2:

1. FROM WESTMOOR DRIVE TO THE PROJECT END, CLOSE THE BLUEMOUND ROAD INSIDE TRAVEL LANE AND MAINTAIN TWO TRAVEL TRAVEL LANES IN EACH DIRECTION BY SHIFTING TRAFFIC TO THE AUXILIARY LANE DURING PEAK HOURS. THE LEFT TRAVEL LANE MAY BE CLOSED DURING OFF-PEAK HOURS.
2. BASE PATCH CONCRETE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
3. MILL THE EXISTING ASPHALTIC SURFACE TO THE TOP OF EXISTING CONCRETE AND OVERLAY WITH BINDER COURSE OF HMA PAVEMENT PRIOR TO OPENING ANY LANE TO TRAFFIC. PAVE SURFACE COURSE OF HMA PAVEMENT WITHIN 14 CALENDAR DAYS OF PAVING THE BINDER COURSE. ECHELON PAVE THE SURFACE COURSE OF HMA PAVEMENT ACROSS THE TWO FINAL TRAVEL LANES.

STAGE 3:

1. FROM THE PROJECT BEGINNING TO WESTMOOR DRIVE, CLOSE THE BLUEMOUND ROAD AUXILIARY LANE AND RESTRICT TRAFFIC TO THREE TRAVEL LANES DURING PEAK HOURS. THE RIGHT TWO TRAVEL LANES MAY BE CLOSED DURING NIGHT TIME HOURS.
2. BASE PATCH CONCRETE IN LANE 3 AND THE AUXILIARY LANE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
3. MILL THE EXISTING ASPHALTIC SURFACE TO THE TOP OF EXISTING CONCRETE AND OVERLAY WITH BINDER COURSE OF HMA PAVEMENT PRIOR TO OPENING ANY LANE TO TRAFFIC. PAVE SURFACE COURSE OF HMA PAVEMENT WITHIN 14 CALENDAR DAYS OF PAVING THE BINDER COURSE. ECHELON PAVE THE SURFACE COURSE OF HME PAVEMENT ACROSS LANE 3, THE AUXILIARY LANE, AND ALONG THE RIGHT TURN LANE TAPER TO THE GORE POINT.
4. DETOUR PEDESTRIANS PRIOR TO REMOVING CONCRETE CURB RAMPS IN ACCORDANCE WITH THE STANDARD DETAIL DRAWINGS AND CONSTRUCTION DETAILS. COMPLETE EACH CURB RAMP REPLACEMENT WITHIN 10 WORKING DAYS OF DETOURING PEDESTRIANS AT THAT LOCATION.

STAGE 4:

1. FROM THE PROJECT BEGINNING TO WESTMOOR DRIVE, CLOSE THE BLUEMOUND ROAD INSIDE TRAVEL LANE AND MAINTAIN THREE TRAVEL TRAVEL LANES IN EACH DIRECTION BY SHIFTING TRAFFIC TO THE AUXILIARY LANE DURING PEAK HOURS. THE LEFT TWO TRAVEL LANES MAY BE CLOSED DURING NIGHT TIME HOURS.
2. BASE PATCH CONCRETE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
3. MILL THE EXISTING ASPHALTIC SURFACE TO THE TOP OF EXISTING CONCRETE AND OVERLAY WITH BINDER COURSE OF HMA PAVEMENT PRIOR TO OPENING ANY LANE TO TRAFFIC. PAVE SURFACE COURSE OF HMA PAVEMENT WITHIN 14 CALENDAR DAYS OF PAVING THE BINDER COURSE. ECHELON PAVE THE SURFACE COURSE OF HMA PAVEMENT ACROSS LANES 1, 2, AND ALONG THE LEFT TURN LANE TAPER TO THE GORE POINT.

2

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY CROSSWALK ACCESS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

N

BLUEMOUND ROAD/USH 18

10'

10'

MATCHLINE STA 425+00.00

425+00 426+00 427+00 428+00 429+00 430+00

MATCHLINE STA 430+25.00

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN CURB RAMP

TEMPORARY PEDESTRIAN SURFACE

TEMPORARY PEDESTRIAN CURB RAMP

TEMPORARY PEDESTRIAN SURFACE

M4-60L
30"X24"

M4-60R
30"X24"

N LYNNWOOD LN

TYPICAL TEMPORARY PEDESTRIAN CURB RAMP APPLICATION

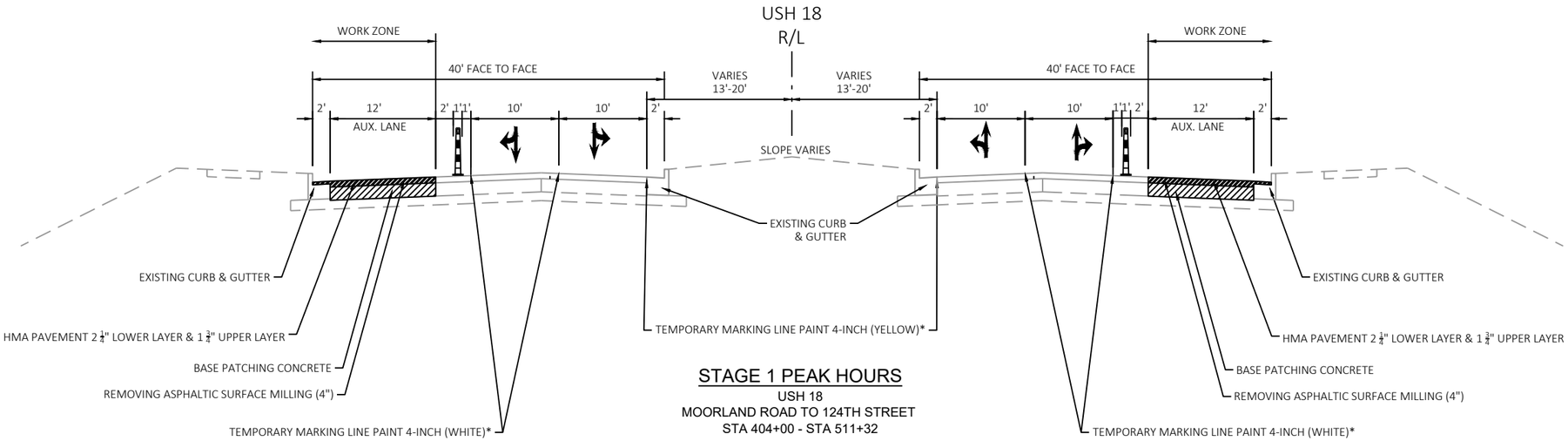
REFER TO STANDARD DETAIL DRAWINGS FOR MORE INFORMATION

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TEMPORARY PEDESTRIAN CURB RAMP EXAMPLE	SHEET 351	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026000-TC2-CURB RAMP.DWG
LAYOUT NAME - (5)

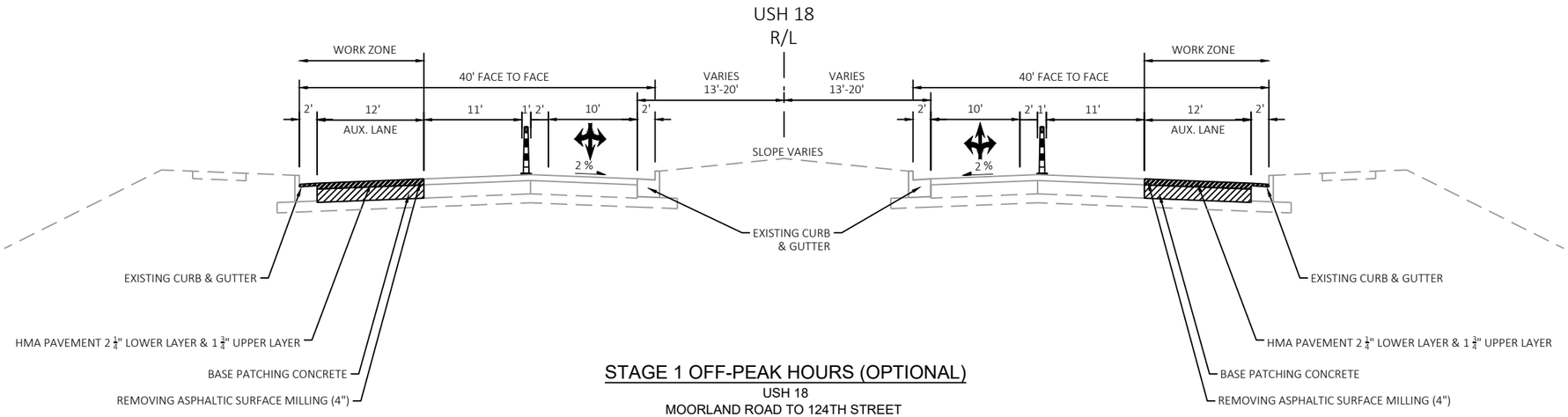
PLOT DATE : 1/31/2023 10:30 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



STAGE 1 PEAK HOURS

USH 18
MOORLAND ROAD TO 124TH STREET
STA 404+00 - STA 511+32



STAGE 1 OFF-PEAK HOURS (OPTIONAL)

USH 18
MOORLAND ROAD TO 124TH STREET
STA 404+00 - STA 511+32

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CONSTRUCTION STAGING TYPICAL SECTIONS	SHEET 03

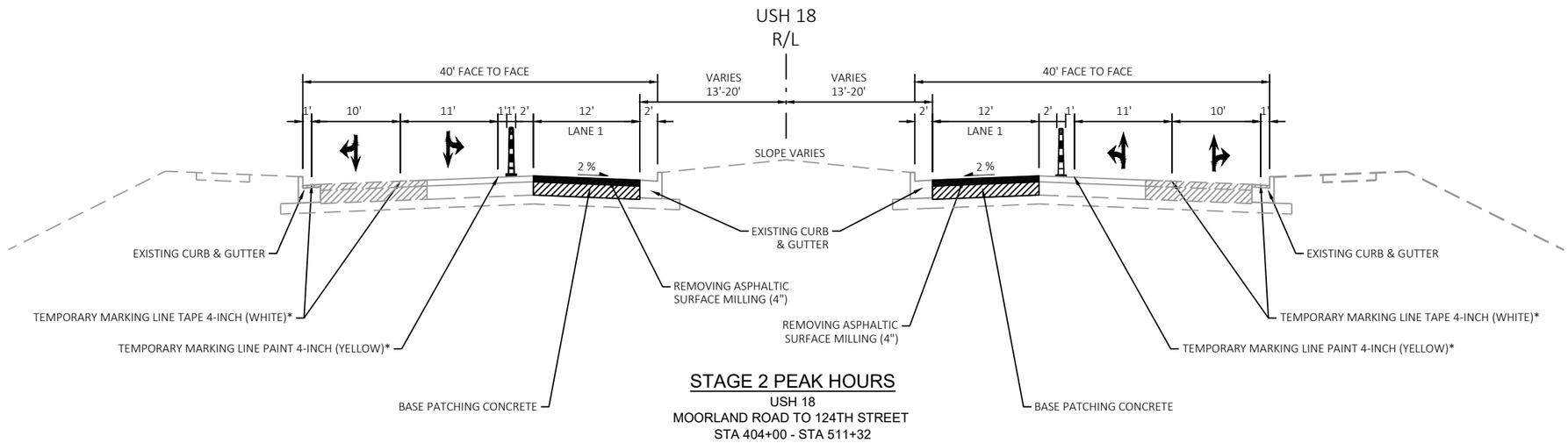
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FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\025100-TC-TS NEW STAGING.DWG
LAYOUT NAME - 020303-ts

PLOT DATE : 1/31/2023 10:30 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:15 FT

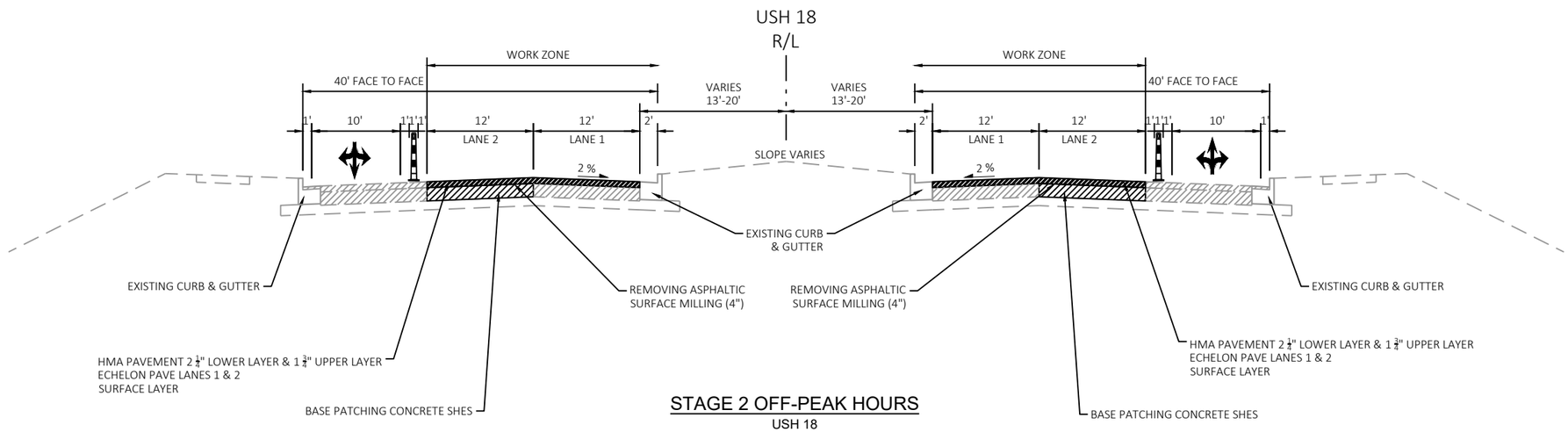
WISDOT/CADDS SHEET 42

2



STAGE 2 PEAK HOURS

USH 18
MOORLAND ROAD TO 124TH STREET
STA 404+00 - STA 511+32



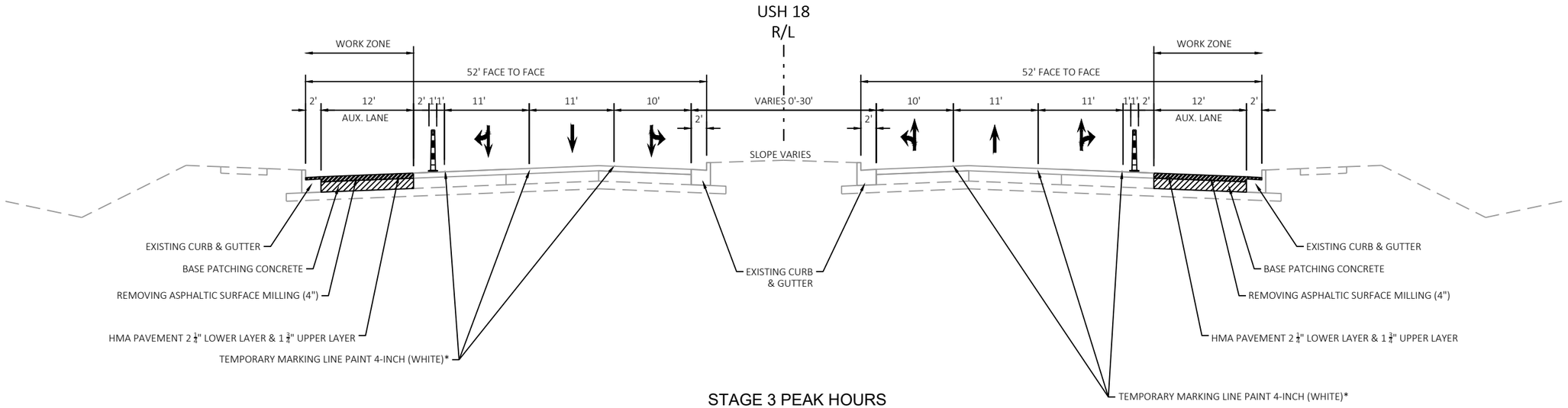
STAGE 2 OFF-PEAK HOURS

USH 18
MOORLAND ROAD TO 124TH STREET
STA 404+00 - STA 511+32

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CONSTRUCTION STAGING TYPICAL SECTIONS	SHEET 04	353	E

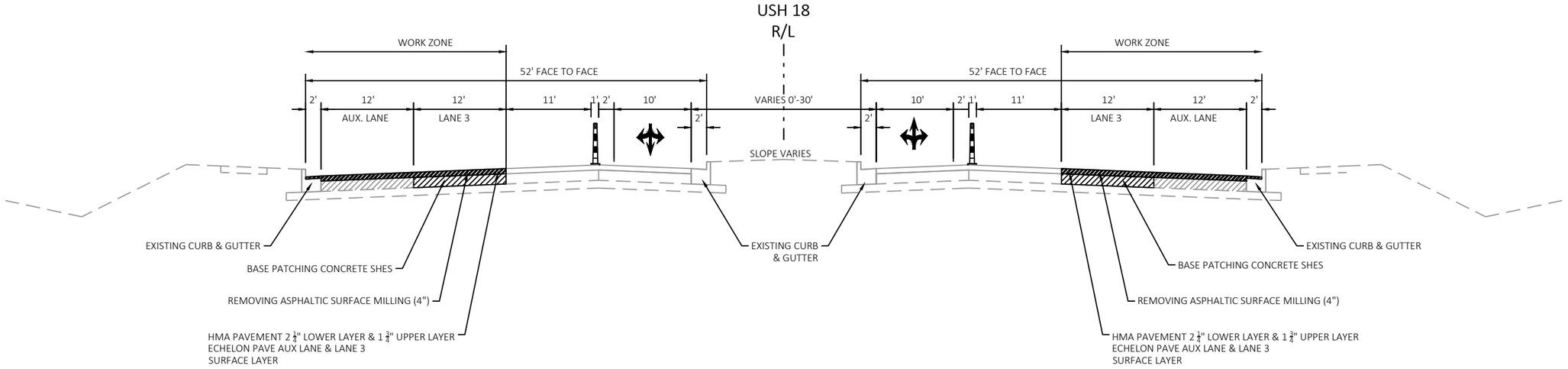
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LAYOUT NAME - 020304-ts
PLOT DATE : 2/1/2023 8:24 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:15 FT

2



STAGE 3 PEAK HOURS

USH 18
BARKER ROAD TO MOORLAND ROAD
STA 228+88 - STA 404+00



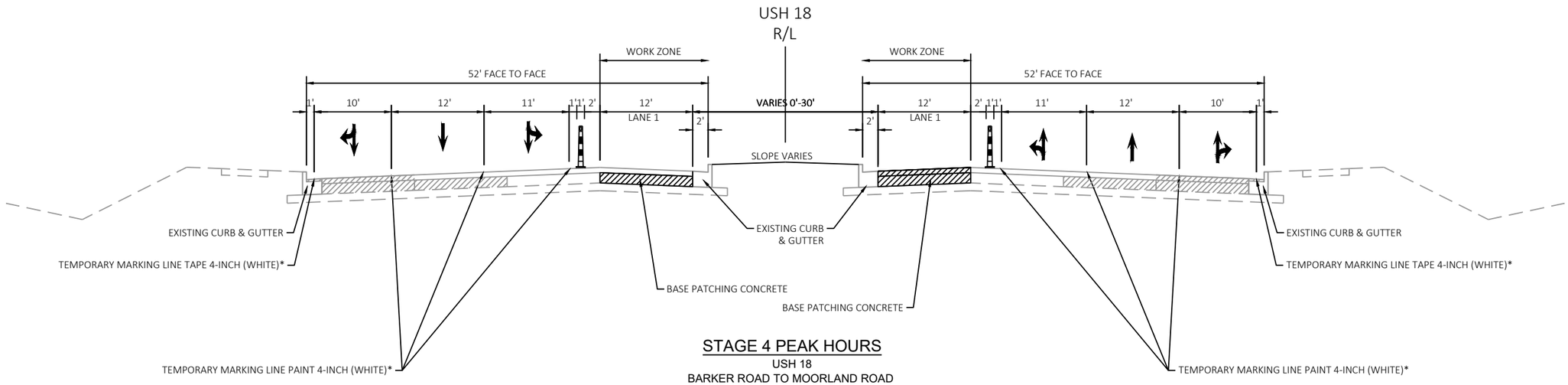
STAGE 3 OFF-PEAK HOURS (OPTIONAL)

USH 18
BARKER ROAD TO MOORLAND ROAD
STA 228+88 - STA 404+00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CONSTRUCTION STAGING TYPICAL SECTIONS	SHEET 01	354	E

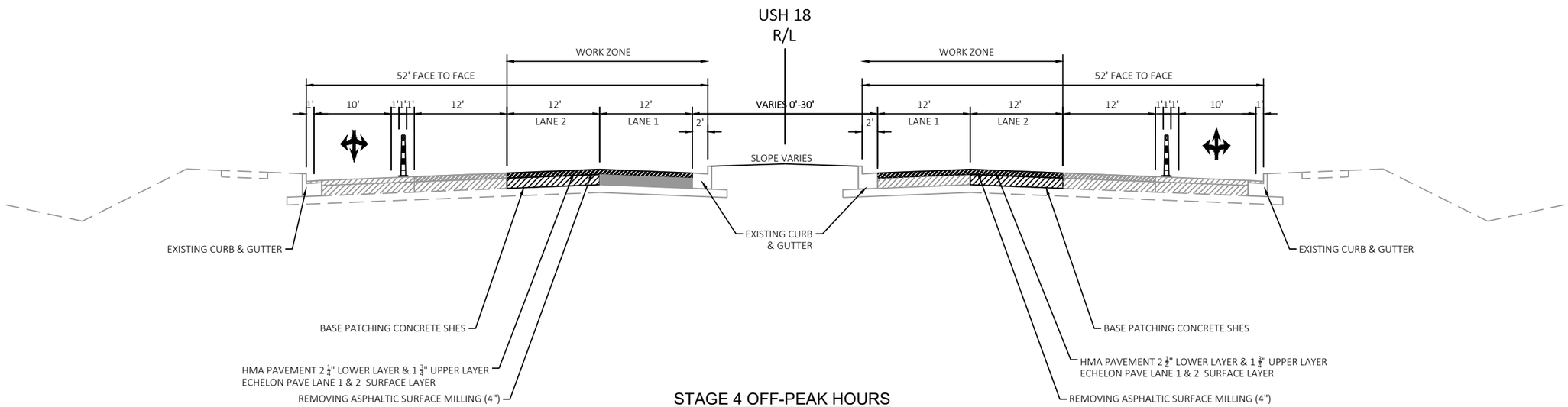
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\025100-TC-TS NEW STAGING.DWG
LAYOUT NAME - 020301-ts
PLOT DATE : 2/1/2023 8:24 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:15 FT

2



STAGE 4 PEAK HOURS

USH 18
BARKER ROAD TO MOORLAND ROAD
STA 228+88 - STA 404+00



STAGE 4 OFF-PEAK HOURS

USH 18
BARKER ROAD TO MOORLAND ROAD
STA 228+88 - STA 404+00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CONSTRUCTION STAGING TYPICAL SECTIONS	SHEET 02	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\025100-TC-TS NEW STAGING.DWG
LAYOUT NAME - 020302-ts

PLOT DATE : 2/1/2023 8:24 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:15 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

BLUEMOUND ROAD/USH 18

404 405 406 407 408 409

MATCHLINE STA 409+25.00

N MOORLAND RD

W4-2R
36"X36"

ROAD WORK AHEAD
W20-1A

PLACE "ROAD WORK AHEAD" SIGN ON BOTH SIDES OF ROAD AT STA. 397+50, RT

RIGHT LANE CLOSED AHEAD
W20-5A

PLACE "RIGHT LANE CLOSED AHEAD" SIGN ON BOTH SIDES OF ROAD AT STA. 402+50, RT

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 356	E

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

W

W

BLUEMOUND ROAD/USH 18

MATCHLINE STA 409+25.00

MATCHLINE STA 414+50.00

410 411 412 413 414

PW4

PCMS

PLACE TRAFFIC CONTROL SIGN PCMS FOR 7 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION

N FAIRWAY DR

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
ROAD WORK	BEGINS XXXDAY XX/XX

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 357	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (2)

PLOT DATE : 3/21/2023 10:53 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	MARKING REMOVAL LINE
TYPE A WARNING LIGHT (FLASHING)	

N

TERRACE DR

END
ROAD WORK
G20-2A
48"X24"

PC: 416+31.61

BLUEMOUND ROAD/USH 18

MATCHLINE STA 414+50.00

MATCHLINE STA 419+75.00

415 416 417 418 419

264'

PW4

PCMS

PLACE TRAFFIC CONTROL SIGN PCMS
FOR 7 CALENDAR DAYS PRIOR TO START
OF OFF PEAK CONSTRUCTION

WESTMOOR DR

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
NIGHTLY LANE CLOSURES	BEGIN XXXDAY 8PM/6AM

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 358	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (3)

PLOT DATE : 3/21/2023 10:53 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

FLAG

BLUEMOUND ROAD/USH 18

PT. STA 423+11.35

MATCHLINE STA 419+75.00

MATCHLINE STA 425+00.00

420 421 422 423 424

10'

10'

11'

10'

PW4

LANE CLOSED
R11-2L
48"X30"

N PROSPECT DR

N LEANORE LN

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 359	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (4)

PLOT DATE : 3/21/2023 10:53 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 425+00.00

MATCHLINE STA 430+25.00

PW4

PW4

BLUEMOUND ROAD/USH 18

10'

10'

425

426

427

428

429

430

13'

10'

10'

PW4

PW4

PW4

PW4

LANE CLOSED

R11-2L
48"X30"

N LYNNWOOD LN

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 360	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (5)

PLOT DATE : 3/21/2023 10:53 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

ROSEDALE DR

CRYSTAL LN

BLUEMOUND ROAD/USH 18

LANE CLOSED
R11-2L
48"X30"

PW4

PC: 431+03.07

10'

10'

11'

431

432

433

434

435

MATCHLINE STA 430+25.00

MATCHLINE STA 435+50.00

N ROSEDALE DR

N ELMRIDGE AVE

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 361 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (6)

PLOT DATE : 3/21/2023 10:53 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD (PCMS)
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

HI VIEW CT

BLUEMOUND ROAD/USH 18

PT: 438+91.18

PW4

10'

436 437 438 439 440

MATCHLINE STA 435+50.00

MATCHLINE STA 440+75.00

LANE CLOSED
R11-2L
48"X30"

N PARK BLVD

FLAG

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 362	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (7)

PLOT DATE : 3/21/2023 10:53 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

LEGEND

	TYPE III BARRICADE
	TYPE III BARRICADE WTH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONES 42-INCH
A	TYPE A WARNING LIGHT (FLASHING)
C	TYPE C WARNING LIGHT (STEADY BURN)
	TEMPORARY PEDESTRIAN BARRICADE
	WORK AREA
	TEMPORARY WORK AREA WITH FLAGGERS
	DIRECTION OF TRAFFIC
PCMS	PORTABLE CHANGEABLE MESSAGE BOARD
	MARKING REMOVAL LINE

N

VERNON PL

LANE CLOSED
R11-2L
48"X30"

BLUEMOUND ROAD/USH 18

PW4

10'
10'
11'

441 442 443 444 445

12'

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

N BEAUMONT AVE

N EASTMOOR AVE

MATCHLINE STA 440+75.00

MATCHLINE STA 446+00.00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 363	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (8)

PLOT DATE : 3/21/2023 10:53 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

FLORENCE DR

RIPRAP

PI: 446+91.56

BLUEMOUND ROAD/USH 18

PW4

PW4

10'

10'

446

447

448

449

450

451

MATCHLINE STA 446+00.00

MATCHLINE STA 451+25.00

PW4

PW4

10'

10'

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 364	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (9)

PLOT DATE : 3/21/2023 10:53 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

	TYPE III BARRICADE	©	TYPE C WARNING LIGHT (STEADY BURN)
	TYPE III BARRICADE WTH ATTACHED SIGN		TEMPORARY PEDESTRIAN BARRICADE
	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		TEMPORARY WORK AREA WITH FLAGGERS
	FLASHING ARROW BOARD		DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT	PCMS	PORTABLE CHANGEABLE MESSAGE BOARD
	SIGN ON TEMPORARY SUPPORT		
	TRAFFIC CONTROL CONES 42-INCH		MARKING REMOVAL LINE
A	TYPE A WARNING LIGHT (FLASHING)		

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

W

BLUEMOUND ROAD/USH 18

PW4

PW4

PW4

PW4

10'

10'

10'

10'

452

453

454

455

456

MATCHLINE STA 451+25.00

MATCHLINE STA 456+50.00

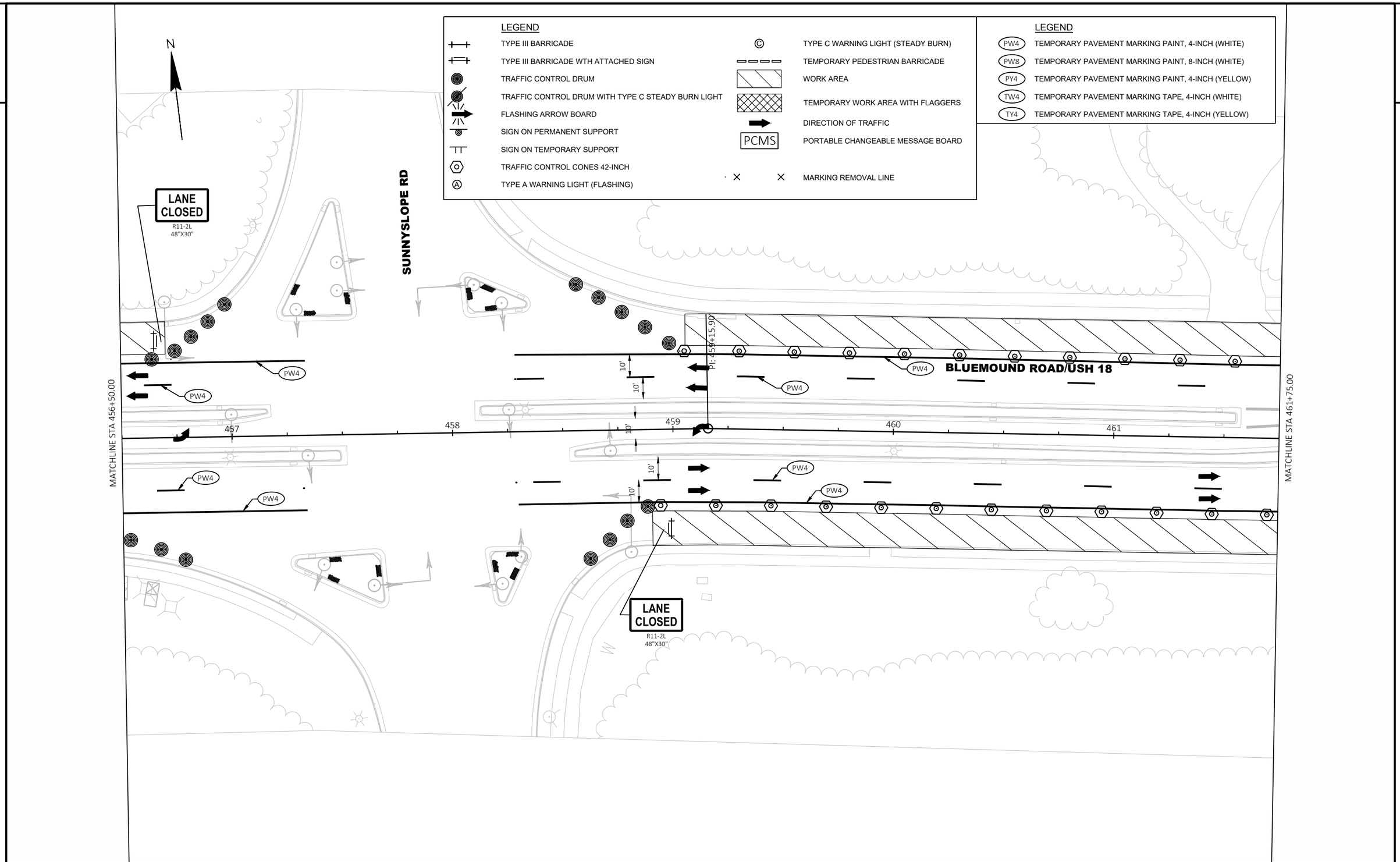
2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 365	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (10)

PLOT DATE : 3/21/2023 10:54 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 366	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (11)

PLOT DATE : 3/21/2023 10:54 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

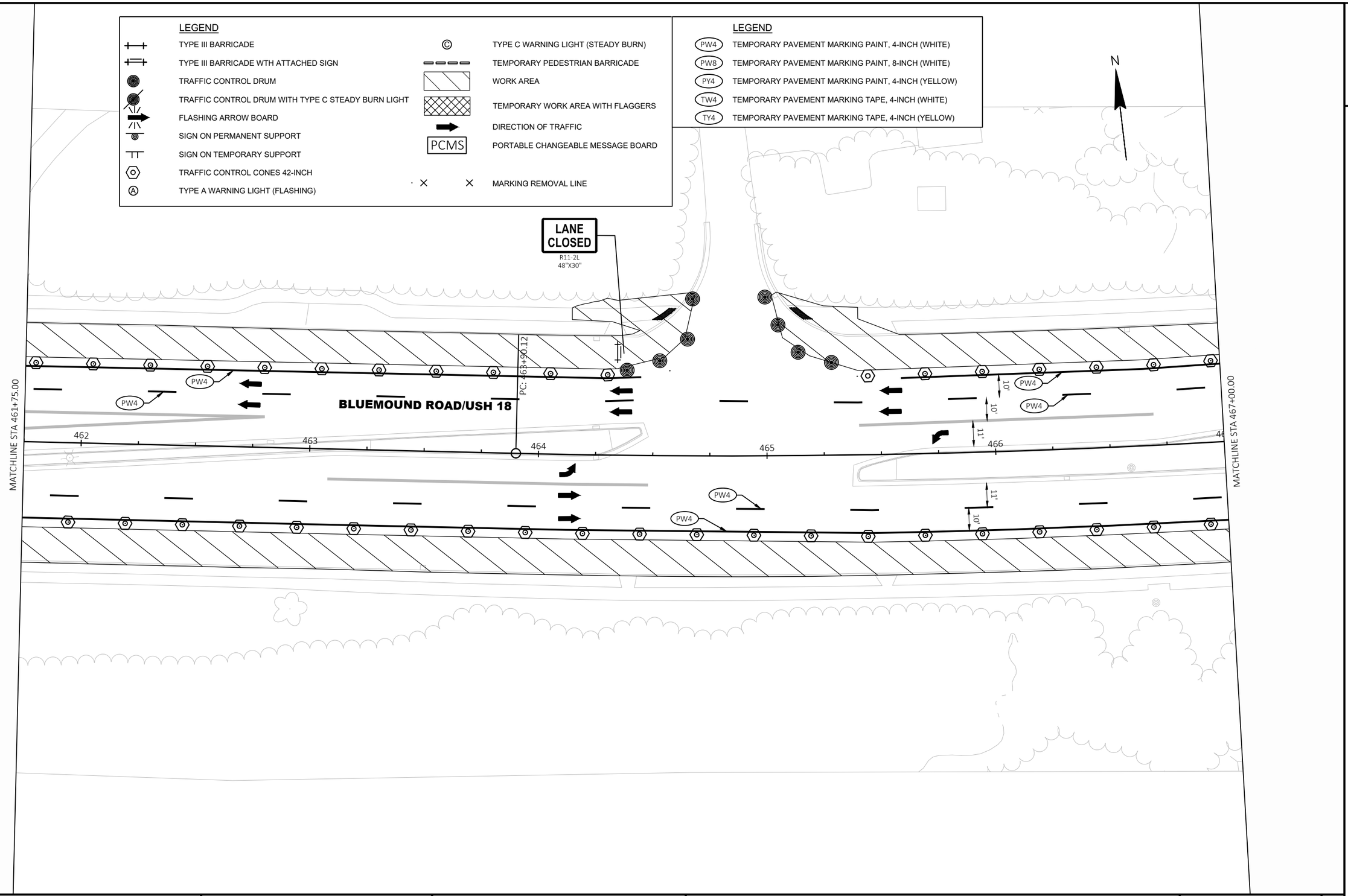
2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD (PCMS)
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 367	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (12)

PLOT DATE : 3/21/2023 10:54 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 467+00.00

MATCHLINE STA 472+25.00

PT: 469+26.49

BLUEMOUND ROAD/USH 18

BISHOP WAY

PW4

10'

11'

467

468

469

470

471

472

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 368	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (13)

PLOT DATE : 3/21/2023 10:54 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

LEGEND

	TYPE III BARRICADE
	TYPE III BARRICADE WTH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONES 42-INCH
A	TYPE A WARNING LIGHT (FLASHING)
C	TYPE C WARNING LIGHT (STEADY BURN)
	TEMPORARY PEDESTRIAN BARRICADE
	WORK AREA
	TEMPORARY WORK AREA WITH FLAGGERS
	DIRECTION OF TRAFFIC
PCMS	PORTABLE CHANGEABLE MESSAGE BOARD
	MARKING REMOVAL LINE

N

PARK CIR

LANE CLOSED
R11-2L
48"X30"

BLUEMOUND ROAD/USH 18

BISHOP WAY

MATCHLINE STA 472+25.00

MATCHLINE STA 477+50.00

473 474 475 476 477

10' 10' 10' 10'

PW4

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 369 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (14)

PLOT DATE : 3/21/2023 10:54 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

BLUEMOUND ROAD/USH 18

PW4

10'

478 479 480 481 482

MATCHLINE STA 477+50.00

MATCHLINE STA 482+75.00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 370	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (15)

PLOT DATE : 3/21/2023 10:54 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

ELM GROVE RD

BLUEMOUND ROAD/USH 18

MATCHLINE STA 482+75.00

PC: 482+97.46

MATCHLINE STA 488+00.00

483 484 485 486 487

10' 10' 10' 11' 10'

PW4

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 371	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (16)

PLOT DATE : 3/21/2023 10:54 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

U/C

U/C

W

W

W

PT: 488+26.76

PW4

PW4

BLUEMOUND ROAD/USH 18

10'

10'

10'

10'

10'

488

489

490

491

492

493

MATCHLINE STA 488+00.00

MATCHLINE STA 493+25.00

PW4

PW4

PW4

W

N COLUMBIA BLVD

LANE CLOSED

R11-2L

48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 372	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (17)

PLOT DATE : 3/21/2023 10:54 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

BLUEMOUND ROAD/USH 18

UNDERWOOD CROSSING PKWY

MATCHLINE STA 493+25.00

MATCHLINE STA 498+50.00

494 495 496 497 498

10' 10' 10' 10'

PW4

LANE CLOSED
R11-2L
48"X30"

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 373	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (18)

PLOT DATE : 3/21/2023 10:54 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 498+50.00

MATCHLINE STA 503+75.00

BLUEMOUND ROAD/USH 18

PW4

PW4

499

500

501

502

503

10'

10'

11'

11'

10'

10'

PW4

PW4

POST

POST

POST

W

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 374	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (19)

PLOT DATE : 3/21/2023 10:54 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

PLACE TRAFFIC CONTROL SIGN PCMS
FOR 7 CALENDAR DAYS PRIOR TO START
OF OFF PEAK CONSTRUCTION

PCMS

FLAG

W

BLUEMOUND ROAD/USH 18

PW4

10'

11'

504 505 506 507 508

MATCHLINE STA 503+75.00

MATCHLINE STA 509+00.00

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
NIGHTLY LANE CLOSURES	BEGIN XXXDAY 8PM/6AM

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 375	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (20)

PLOT DATE : 3/21/2023 10:55 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
ROAD WORK	BEGINS XXXDAY XX/XX

N

124TH STREET

PLACE TRAFFIC CONTROL SIGN PCMS FOR 7 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION

PCMS

W UNDERWOOD PKWY

BLUEMOUND ROAD/USH 18

PI: 511+03.50

PC: 511+64.22

MATCHLINE STA 509+00.00

MATCHLINE STA 514+25.00

509

510

511

512

513

514

END ROAD WORK

G20-2A
48"X24"

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 376	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (21)

PLOT DATE : 3/21/2023 10:55 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

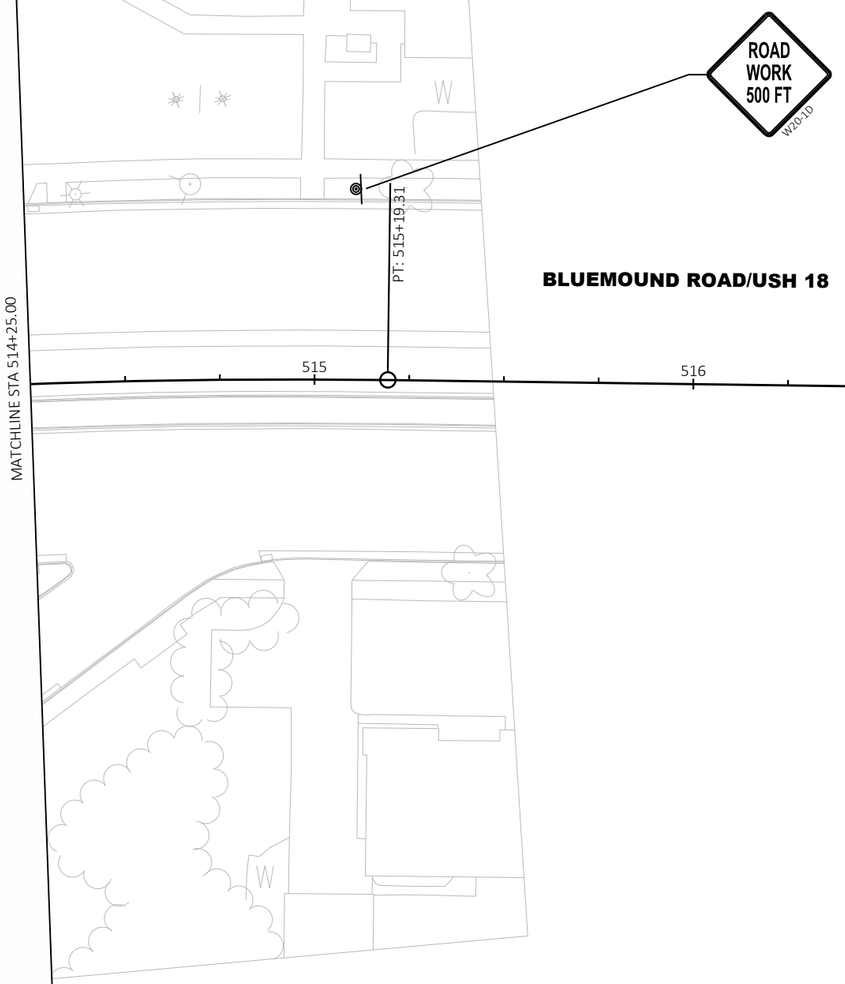
LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N



ROAD WORK 1000 FT (W20-1C)

PLACE "ROAD WORK 1,000 FT" SIGN AT STA. 521+50, RT

ROAD WORK AHEAD (W20-1A)

PLACE "ROAD WORK AHEAD" SIGN AT STA. 531+50, RT

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1	SHEET 377	E

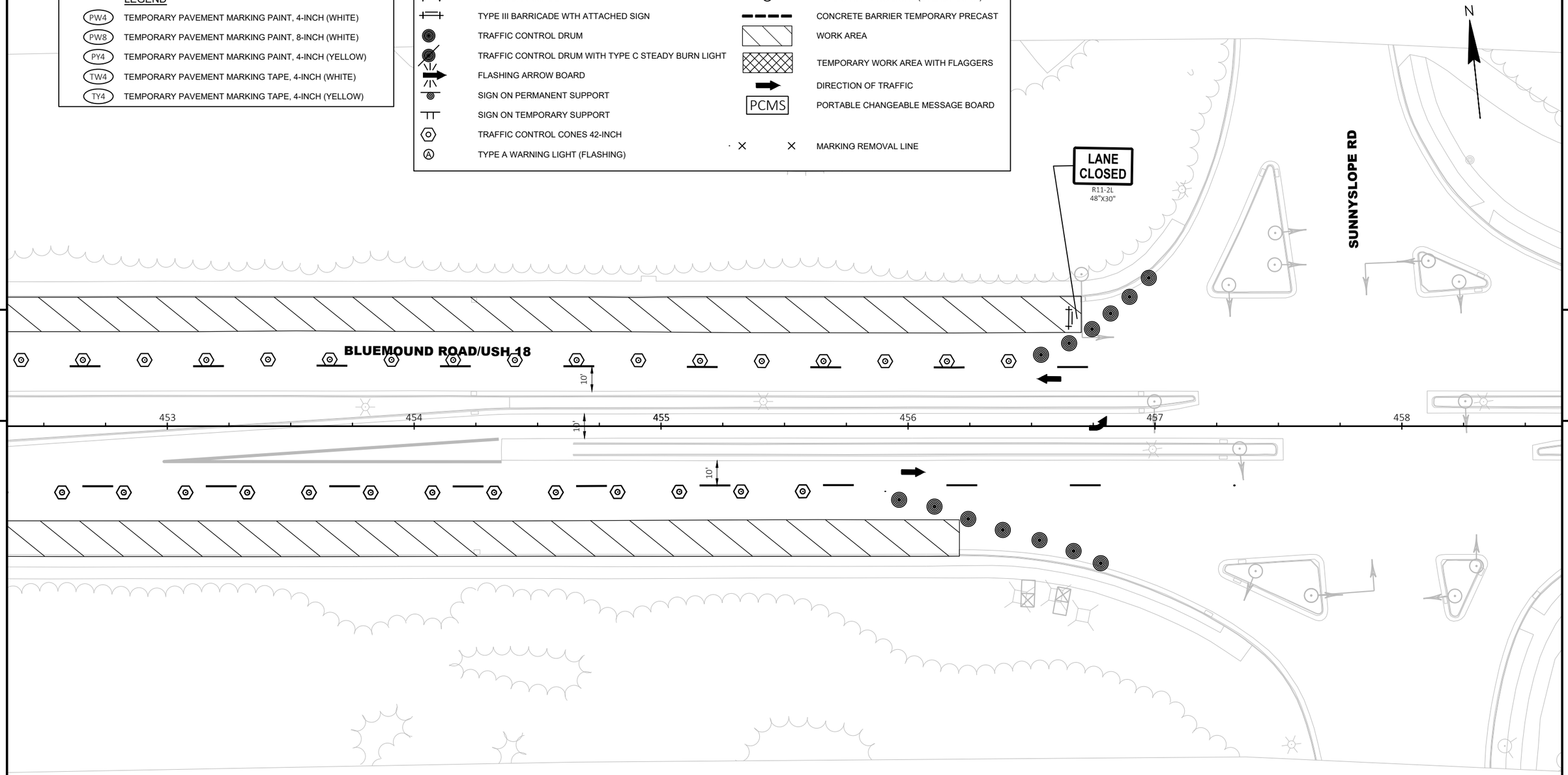
FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1.DWG
LAYOUT NAME - (22)
PLOT DATE : 3/21/2023 10:55 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

LEGEND

	TYPE III BARRICADE	©	TYPE C WARNING LIGHT (STEADY BURN)
	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		TEMPORARY WORK AREA WITH FLAGGERS
	FLASHING ARROW BOARD		DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT	PCMS	PORTABLE CHANGEABLE MESSAGE BOARD
	SIGN ON TEMPORARY SUPPORT		
	TRAFFIC CONTROL CONES 42-INCH		
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		MARKING REMOVAL LINE



OFF-PEAK HOURS LANE SHIFT EXAMPLE

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 1 - OFF-PEAK	SHEET 378	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026001-S1-NIGHTTIME.DWG
LAYOUT NAME - s1 - nighttime

PLOT DATE : 3/21/2023 10:55 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

BLUEMOUND ROAD/USH 18

404 405 406 407 408 409

MATCHLINE STA 409+25.00

N MOORLAND RD

ROAD WORK 1000 FT W20-1C

ROAD WORK AHEAD W20-1A

PLACE "ROAD WORK AHEAD" SIGN ON BOTH SIDES OF ROAD AT STA. 397+00, RT

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 379	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (1)

PLOT DATE : 3/21/2023 10:55 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD (PCMS)
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

W

W

END ROAD WORK
G20-2A
48"X24"

BLUEMOUND ROAD/USH 18

MATCHLINE STA 409+25.00

MATCHLINE STA 414+50.00

410 411 412 413 414

RIGHT LANE MUST TURN RIGHT

EXISTING SIGN TO REMAIN

EXCEPT BUSES AND BICYCLES AT WESTMOOR

TRAFFIC CONTROL COVERING SIGNS TYPE II

ROAD WORK 500 FT
W20-1D

N FAIRWAY DR

PCMS

PLACE TRAFFIC CONTROL SIGN PCMS FOR 7 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
NEW TRAFFIC PATTERN	BEGINS XXXDAY XX/XX

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 380	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (2)

PLOT DATE : 3/21/2023 10:56 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

LEGEND

	TYPE III BARRICADE
	TYPE III BARRICADE WTH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONES 42-INCH
A	TYPE A WARNING LIGHT (FLASHING)
C	TYPE C WARNING LIGHT (STEADY BURN)
	CONCRETE BARRIER TEMPORARY PRECAST
	WORK AREA
	TEMPORARY WORK AREA WITH FLAGGERS
	DIRECTION OF TRAFFIC
PCMS	PORTABLE CHANGEABLE MESSAGE BOARD
	MARKING REMOVAL LINE

N

TERRACE DR

MATCHLINE STA 414+50.00

PC: 416+31.61

TW4

TY4

PY4

BLUEMOUND ROAD/USH 18

415

416

417

418

419

MATCHLINE STA 419+75.00

PY4

TW4

PCMS

PLACE TRAFFIC CONTROL SIGN PCMS
FOR 7 CALENDAR DAYS PRIOR TO START
OF OFF PEAK CONSTRUCTION

RIGHT LANE MUST TURN RIGHT

EXCEPT BUSES AND BICYCLES

EXISTING SIGN TO REMAIN

TRAFFIC CONTROL
COVERING SIGNS
TYPE II

WESTMOOR DR

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
NIGHTLY LANE CLOSURES	BEGIN XXXDAY 8PM/6AM

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 381	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (3)

PLOT DATE : 3/21/2023 10:56 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

FLAG

W01-6
48"X24"

TW4
PY4
PW8

BLUEMOUND ROAD/USH 18

10'
11'
PI STA 423+11.35

MATCHLINE STA 419+75.00

420 421 422 423 424

R711'

MATCHLINE STA 425+00.00

PY4
TW4

LANE CLOSED
R11-2L
48"X30"

W01-6
48"X24"

N PROSPECT DR

N LEANORE LN

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 382	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (4)

PLOT DATE : 3/21/2023 10:56 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

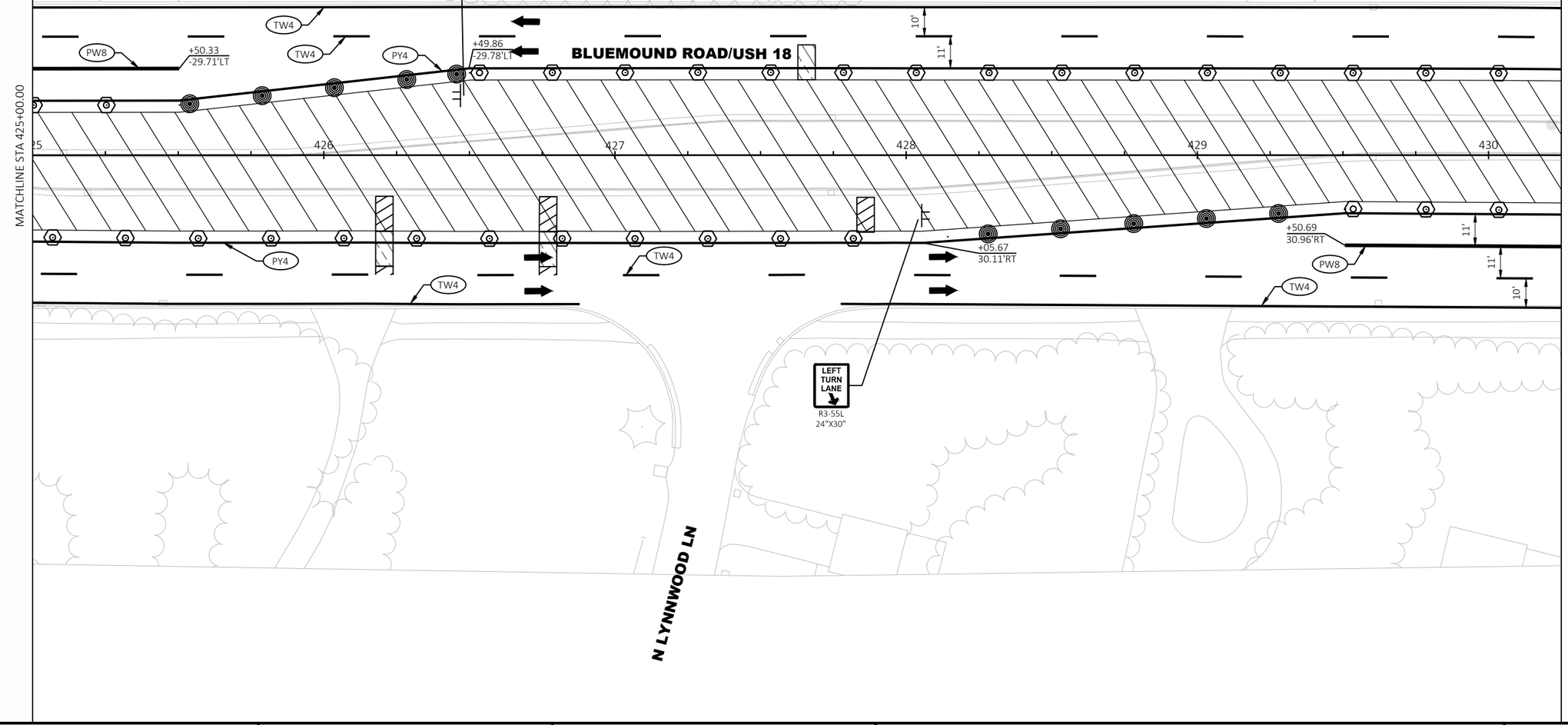
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 383	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (5)

PLOT DATE : 3/21/2023 10:56 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

ROSEDALE DR

CRYSTAL LN

BLUEMOUND ROAD/USH 18

WO1-6
48"X24"

LEFT TURN LANE
R3-55L
24"X30"

TW4
PY4
PW8

PC: 431+13.07

+49.51
-28.70'LT

+49.82
-28.08'LT

10'
11'
11'

431
432
433
434
435

MATCHLINE STA 430+25.00

MATCHLINE STA 435+50.00

10'
10'

WO1-6
48"X24"

N ROSEDALE DR

N ELMRIDGE AVE

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 384	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (6)

PLOT DATE : 3/21/2023 10:56 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

HI VIEW CT

BLUEMOUND ROAD/USH 18

N PARK BLVD

FLAG

PI 438+91.18

MATCHLINE STA 435+50.00

MATCHLINE STA 440+75.00

436 437 438 439 440

TW4 PY4 TW4 TW4 PY4 TW4

10' 10' 11' 10'

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 385	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (7)

PLOT DATE : 3/21/2023 10:56 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

LEGEND

	TYPE III BARRICADE
	TYPE III BARRICADE WTH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONES 42-INCH
A	TYPE A WARNING LIGHT (FLASHING)
C	TYPE C WARNING LIGHT (STEADY BURN)
	CONCRETE BARRIER TEMPORARY PRECAST
	WORK AREA
	TEMPORARY WORK AREA WITH FLAGGERS
	DIRECTION OF TRAFFIC
PCMS	PORTABLE CHANGEABLE MESSAGE BOARD
	MARKING REMOVAL LINE

N

VERNON PL

FLAG

R3-2
24"X24"

WO1-6
48"X24"

BLUEMOUND ROAD/USH 18

TW4

PY4

PW8

441 442 443 444 445

12'

10'

11'

11'

+49.96
-29.07'LT

MATCHLINE STA 440+75.00

MATCHLINE STA 446+00.00

N BEAUMONT AVE

N EASTMOOR AVE

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 386	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (8)

PLOT DATE : 3/21/2023 10:56 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

FLORENCE DR

RIPRAP

LEFT TURN LANE
R3-55L
24"X30"

+49.80
-29.63'LT

P.I. 446+91.56

BLUEMOUND ROAD/USH 18

TW4
PY4
10'
11'

446 447 448 449 450 451

MATCHLINE STA 446+00.00

MATCHLINE STA 451+25.00

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

W

MATCHLINE STA 451+25.00

MATCHLINE STA 456+50.00

BLUEMOUND ROAD/USH 18

TW4

PY4

10'

11'

LEFT TURN LANE

R3-5SL

24"X30"

452

453

454

455

456

10'

+99.94

30.31'RT

PW8

PW4

TW4

10'

11'

LANE CLOSED

R11-2L

48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 388	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (10)

PLOT DATE : 3/21/2023 10:57 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

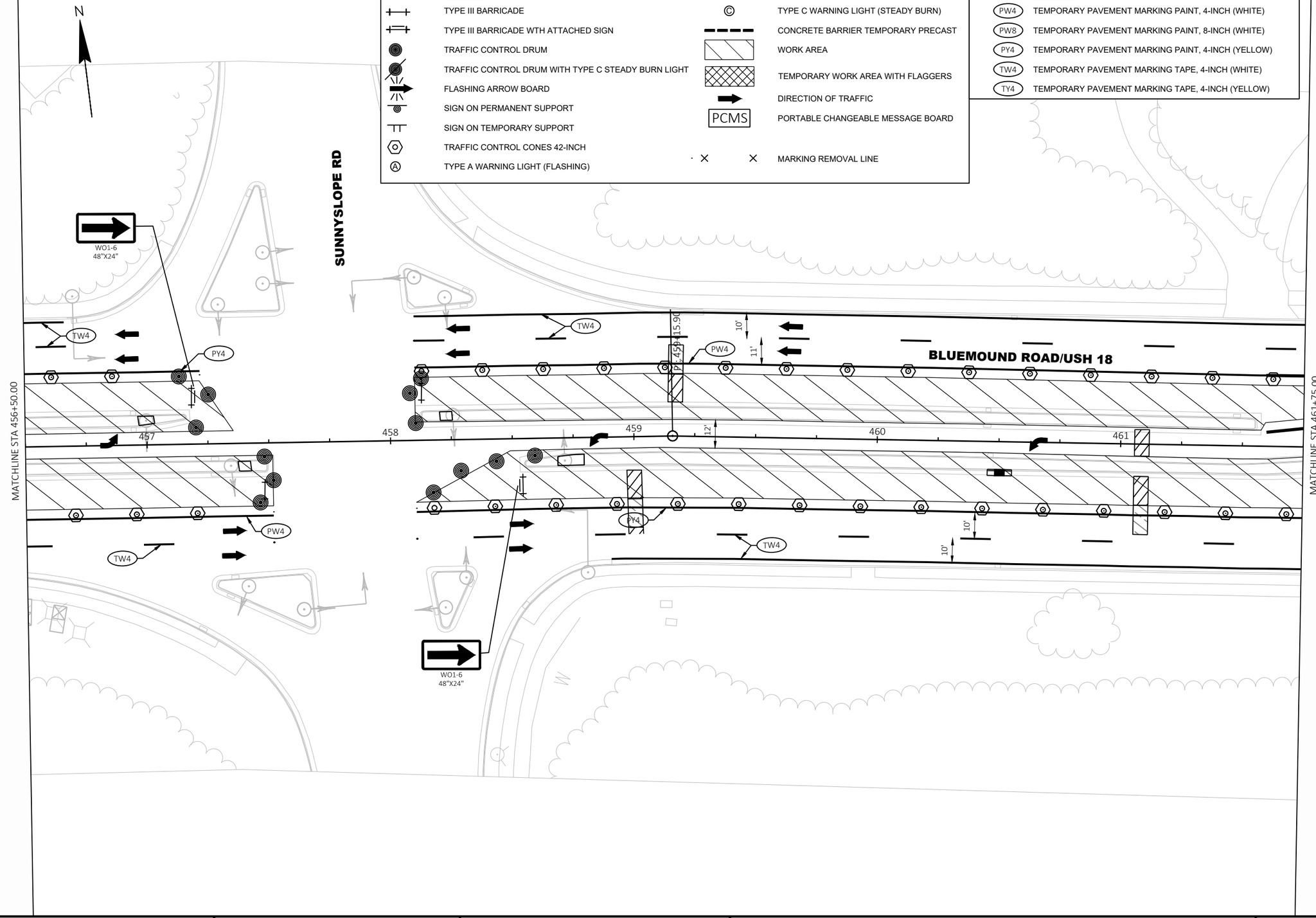
2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 389 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (11)

PLOT DATE : 3/21/2023 10:57 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

LEFT TURN LANE
R3-55L
24"X30"

BLUEMOUND ROAD/USH 18

MATCHLINE STA 461+75.00

MATCHLINE STA 467+00.00

TW4

PW8

PY4

10'

11'

+63.50
-29.64'LT

PC: 463+90.12

462

463

464

465

466

+50.02
29.15'RT

+50.00
29.04'RT

LEFT TURN LANE
R3-55L
24"X30"

WO1-6
48"X24"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 390	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (12)

PLOT DATE : 3/21/2023 10:57 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD (PCMS)
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

WO1-6
48"X24"

TW4

10'

11'

PT: 469+26.19

PY4

BLUEMOUND ROAD/USH 18

PW4

MATCHLINE STA 467+00.00

467

468

469

470

471

472

MATCHLINE STA 472+25.00

PY4

TW4

11'

10'

TW4

WO1-6
48"X24"

W

BISHOP WAY

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 391	E

2

2

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

LEGEND

	TYPE III BARRICADE
	TYPE III BARRICADE WTH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONES 42-INCH
A	TYPE A WARNING LIGHT (FLASHING)
C	TYPE C WARNING LIGHT (STEADY BURN)
	CONCRETE BARRIER TEMPORARY PRECAST
	WORK AREA
	TEMPORARY WORK AREA WITH FLAGGERS
	DIRECTION OF TRAFFIC
PCMS	PORTABLE CHANGEABLE MESSAGE BOARD
	MARKING REMOVAL LINE

N

PARK CIR

LANE CLOSED
R11-2L
48"X30"

BLUEMOUND ROAD/USH 18

TW4
PW4
PW8
TW4
PY4
PW8
TW4

10'
11'
10'
11'
11'

473
474
475
476
477

MATCHLINE STA 472+25.00

MATCHLINE STA 477+50.00

LEFT TURN LANE
R3-55L
24"X30"

BISHOP WAY

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 392	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (14)

PLOT DATE : 3/21/2023 10:57 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LEFT TURN LANE
R3-55L
24"X30"

TW4
PY4
10'
11'
BLUEMOUND ROAD/USH 18
478
479
480
481
482
10'
MATCHLINE STA 477+50.00
MATCHLINE STA 482+75.00
PW8
11'
11'
PW4
TW4
LANE CLOSED
R11-2L
48"X30"

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 393	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (15)
PLOT DATE : 3/21/2023 10:57 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

ELM GROVE RD

BLUEMOUND ROAD/USH 18

MATCHLINE STA 482+75.00

MATCHLINE STA 488+00.00

PC: 482+97.46

TW4

PY4

PW4

WO1-6
48"X24"

10'

11'

12'

483 484 485 486 487

POST

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 394	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (16)

PLOT DATE : 3/21/2023 10:57 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

U/C

U/C

W

W

W

LANE CLOSED
R11-2L
48"X30"

LEFT TURN LANE
R3-55L
24"X30"

MATCHLINE STA 488+00.00

STA 488+26.76

TW4

PW8

PY4

10'

11'

BLUEMOUND ROAD/USH 18

+82.59
-29.94'LT

488

489

490

491

492

493

MATCHLINE STA 493+25.00

PY4

TW4

11'

10'

PW8

TW4

LEFT TURN LANE
R3-55L
24"X30"

W

N COLUMBIA BLVD

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 395	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (17)

PLOT DATE : 3/21/2023 10:57 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
(A) TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

POST POST

WO1-6
48"X24"

TW4

PY4

10'

11'

BLUEMOUND ROAD/USH 18

PW4

494 495 496 497 498

MATCHLINE STA 493+25.00

MATCHLINE STA 498+50.00

11'

10'

PW4

TW4

PY4

TW4

WO1-6
48"X24"

UNDERWOOD CROSSING PKWY

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 396	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (18)

PLOT DATE : 3/21/2023 10:58 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LEFT TURN LANE
R3-55L
24"X30"

PW8

10'

11'

BLUEMOUND ROAD/USH 18

PY4

499 500 501 502 503

MATCHLINE STA 498+50.00

MATCHLINE STA 503+75.00

PY4

11'

10'

LANE CLOSED
R11-2L
48"X30"

POST

W

POST

POST

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 397	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (19)

PLOT DATE : 3/21/2023 10:58 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

PLACE TRAFFIC CONTROL SIGN PCMS
FOR 7 CALENDAR DAYS PRIOR TO START
OF OFF PEAK CONSTRUCTION

LANE CLOSED
R11-2L
48"X30"

PCMS

W

FLAG

TW4 TW4 PY4

10' 11'

BLUEMOUND ROAD/USH 18

MATCHLINE STA 503+75.00

504 505 506 507 508

MATCHLINE STA 509+00.00

PY4

TW4 TW4

11' 10'

W01-4BL

LANE CLOSED
R11-2L
48"X30"

LEFT TURN LANE
R3-55L
24"X30"

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
NIGHTLY LANE CLOSURES	BEGIN XXXDAY 8PM/6AM

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 398	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (20)

PLOT DATE : 3/21/2023 10:58 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

LEGEND

	TYPE III BARRICADE
	TYPE III BARRICADE WTH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL CONES 42-INCH
A	TYPE A WARNING LIGHT (FLASHING)
C	TYPE C WARNING LIGHT (STEADY BURN)
	CONCRETE BARRIER TEMPORARY PRECAST
	WORK AREA
	TEMPORARY WORK AREA WITH FLAGGERS
	DIRECTION OF TRAFFIC
PCMS	PORTABLE CHANGEABLE MESSAGE BOARD
	MARKING REMOVAL LINE

N

124TH STREET

W UNDERWOOD PKWY

BLUEMOUND ROAD/USH 18

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1: NEW TRAFFIC PATTERN

PANEL 2: BEGINS XXXDAY XX/XX

PLACE TRAFFIC CONTROL SIGN PCMS FOR 7 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION

PCMS

WO1-6
48"X24"

PI: 511+03.50

PC: 511+64.22

R1910'

510

511

512

513

514

TW4

TY4

PY4

PW8

MATCHLINE STA 509+00.00

MATCHLINE STA 514+25.00

CONSTRUCT BASE PATCHING THROUGH INTERSECTION IN STAGES DURING NIGHT TIME TO KEEP LEFT TURN ACCESS OPEN AT ALL TIMES.

END ROAD WORK
G20-2A
48"X24"

WO1-6
48"X24"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 399	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (21)

PLOT DATE : 3/21/2023 10:58 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

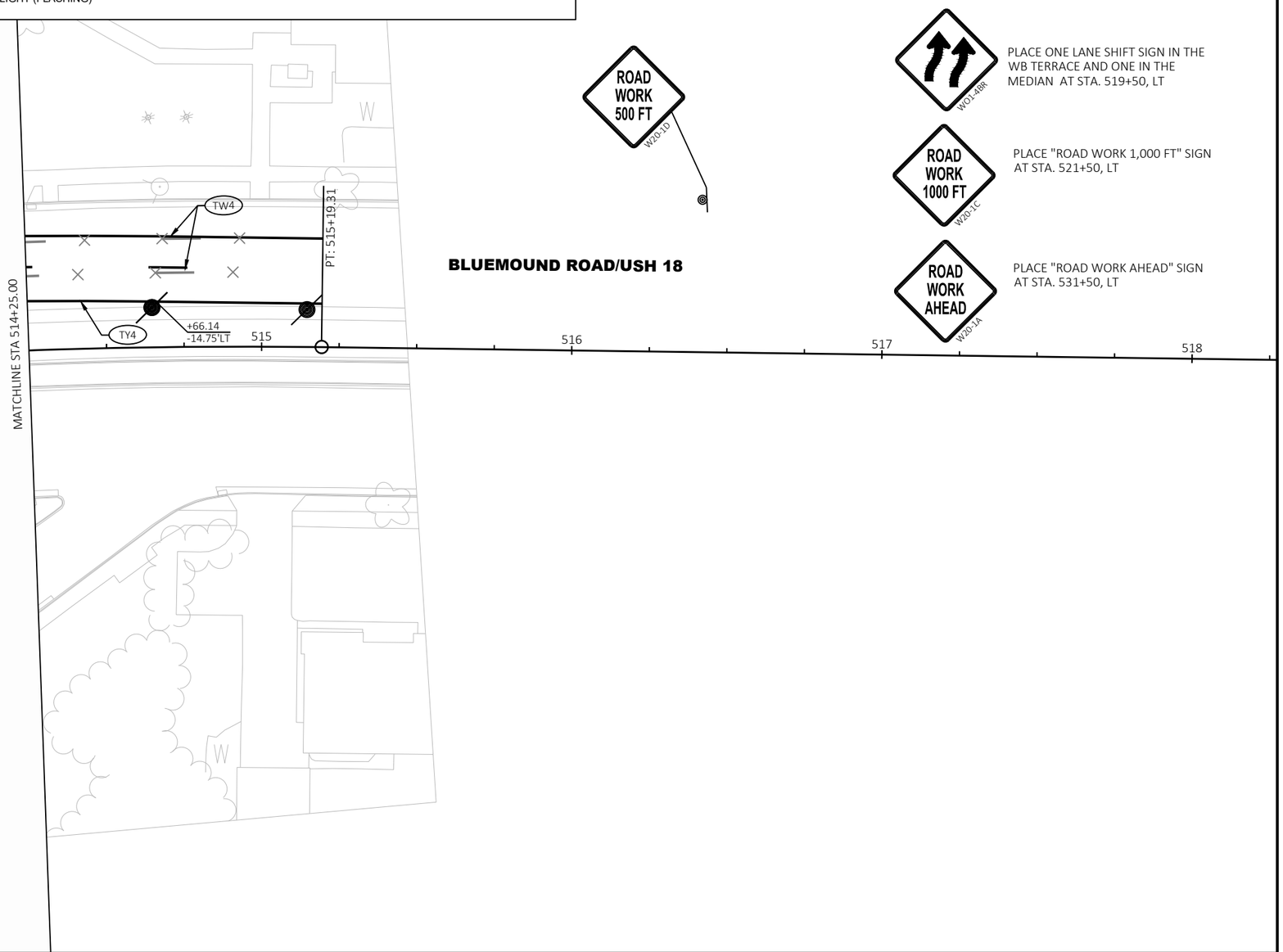
LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N



2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2	SHEET 400	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2.DWG
LAYOUT NAME - (22)

PLOT DATE : 3/21/2023 10:58 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

LEGEND

	TYPE III BARRICADE	©	TYPE C WARNING LIGHT (STEADY BURN)
	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		TEMPORARY WORK AREA WITH FLAGGERS
	FLASHING ARROW BOARD		DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT	PCMS	PORTABLE CHANGEABLE MESSAGE BOARD
	SIGN ON TEMPORARY SUPPORT		
	TRAFFIC CONTROL CONES 42-INCH		
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	×	MARKING REMOVAL LINE

N

SUNNYSLOPE RD

WO1-6
48"X24"

5

BLUEMOUND ROAD/USH 18

10'

452 453 454 455 456 457

10'

10'

WO1-6
48"X24"

5

OFF-PEAK HOURS LANE SHIFT EXAMPLE

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 2 - OFF-PEAK	SHEET 401 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026101-S2-NIGHTTIME.DWG
LAYOUT NAME - s2 - nighttime

PLOT DATE : 3/21/2023 10:58 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

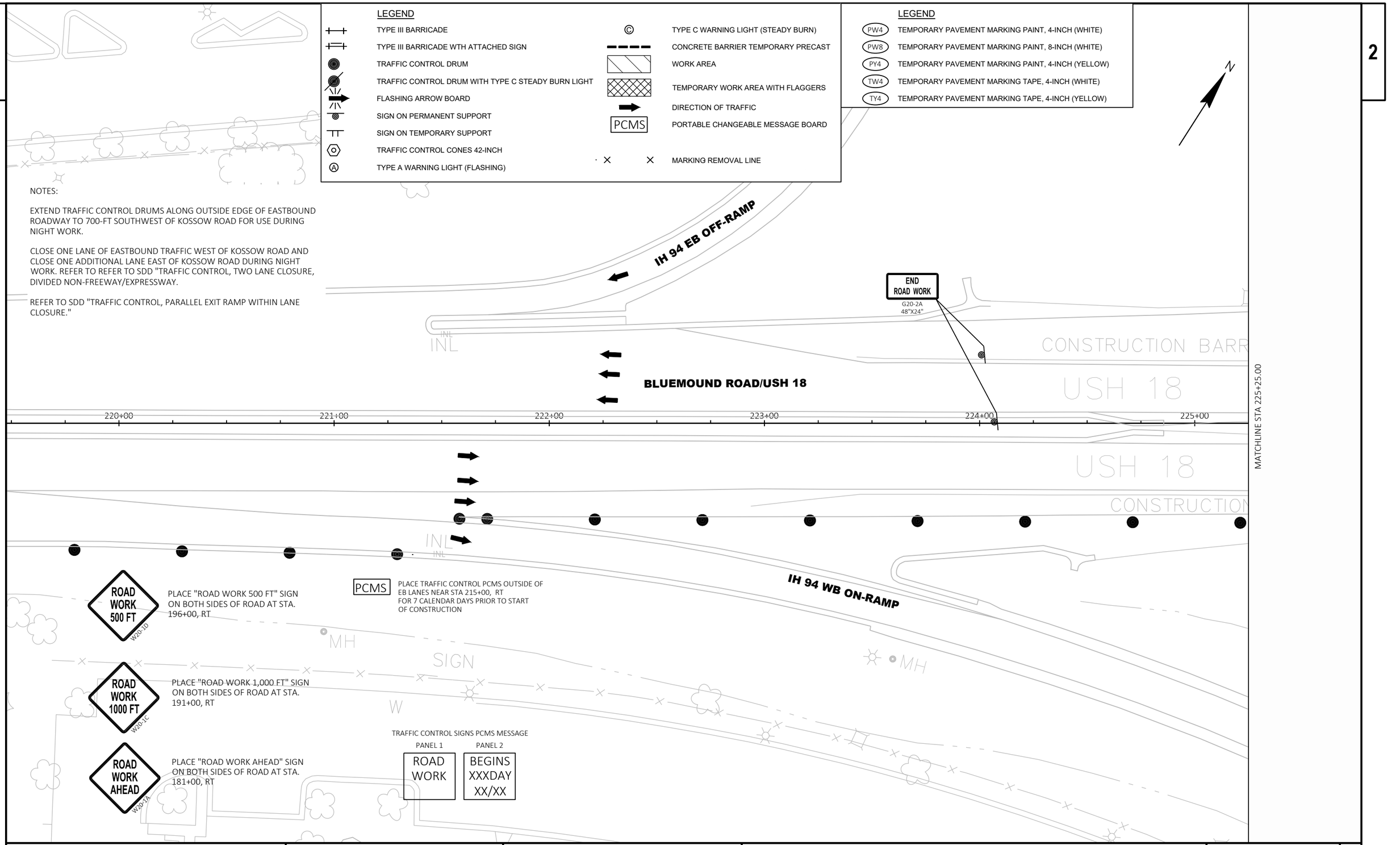
PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

NOTES:

EXTEND TRAFFIC CONTROL DRUMS ALONG OUTSIDE EDGE OF EASTBOUND ROADWAY TO 700-FT SOUTHWEST OF KOSSOW ROAD FOR USE DURING NIGHT WORK.

CLOSE ONE LANE OF EASTBOUND TRAFFIC WEST OF KOSSOW ROAD AND CLOSE ONE ADDITIONAL LANE EAST OF KOSSOW ROAD DURING NIGHT WORK. REFER TO REFER TO SDD "TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY.

REFER TO SDD "TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE."



ROAD WORK 500 FT W20-1D

PLACE "ROAD WORK 500 FT" SIGN ON BOTH SIDES OF ROAD AT STA. 196+00, RT

ROAD WORK 1000 FT W20-1C

PLACE "ROAD WORK 1,000 FT" SIGN ON BOTH SIDES OF ROAD AT STA. 191+00, RT

ROAD WORK AHEAD W20-1A

PLACE "ROAD WORK AHEAD" SIGN ON BOTH SIDES OF ROAD AT STA. 181+00, RT

PCMS

PLACE TRAFFIC CONTROL PCMS OUTSIDE OF EB LANES NEAR STA 215+00, RT FOR 7 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
ROAD WORK	BEGINS XXXDAY XX/XX

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 402	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (1)

PLOT DATE : 3/21/2023 10:59 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

MATCHLINE STA 225+25.00

MATCHLINE STA 230+50.00

BLUEMOUND ROAD/USH 18

226+00 227+00 228+00 229+00 230+00

IH 94

PCMS

PLACE TRAFFIC CONTROL SIGN PCMS FOR 7 CALENDAR DAYS PRIOR TO START OF OFF PEAK CONSTRUCTION

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
NIGHTLY LANE CLOSURES	BEGIN XXXDAY 8PM/6AM

2

LEGEND

	TYPE III BARRICADE	©	TYPE C WARNING LIGHT (STEADY BURN)
	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		TEMPORARY WORK AREA WITH FLAGGERS
	FLASHING ARROW BOARD		DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT	PCMS	PORTABLE CHANGEABLE MESSAGE BOARD
	SIGN ON TEMPORARY SUPPORT		
	TRAFFIC CONTROL CONES 42-INCH		
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

BLUEMOUND ROAD/USH 18

PC: 234+69.10

231+00 232+00 233+00 234+00 235+00

MATCHLINE STA 230+50.00

MATCHLINE STA 235+75.00

RIPRAP

NOTES:

REFER TO SDD "TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE."

DO NOT CLOSE BOTH IH 94 WB ON-RAMPS AT THE SAME TIME.

RIPRAP

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 404	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (3)

PLOT DATE : 3/21/2023 11:00 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

CTH JJ

BLUEMOUND ROAD/USH 18

236+00

237+00

238+00

239+00

240+00

241

MATCHLINE STA 235+75.00

PT: 240+85.72

MATCHLINE STA 241+00.00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 405	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (4)

PLOT DATE : 3/21/2023 11:00 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

N

N BARKER RD

BLUEMOUND ROAD/USH 18

PW4

11'
11'
10'

241+00

242+00

243+00

244+00

245+00

246+00

MATCHLINE STA 241+00.00

MATCHLINE STA 246+25.00

PW4

12'
11'
11'

LANE CLOSED
R11-2L
48"X30"

IPRAP

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 406	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (5)

PLOT DATE : 3/21/2023 11:00 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

BLUEMOUND ROAD/USH 18

PW4

11'
11'
12'

MATCHLINE STA 246+25.00

247+00 248+00 249+00 250+00 251+00

MATCHLINE STA 251+50.00

10'
11'
11'

PW4

XXXXXXXXXXXXXXXX

XXXXXXX

LANE CLOSED
R11-2L
48"X30"

W

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 407	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (6)

PLOT DATE : 3/21/2023 11:01 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

POPLAR CREEK PKWY

BLUEMOUND ROAD/USH 18

PW4

11'
11'
10'

252+00 253+00 254+00 255+00 256+00

MATCHLINE STA 251+50.00

MATCHLINE STA 256+75.00

12'
11'
11'

PW4

LANE CLOSED
R11-2L
48"X30"

W
W

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 408	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (7)

PLOT DATE : 3/21/2023 11:01 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

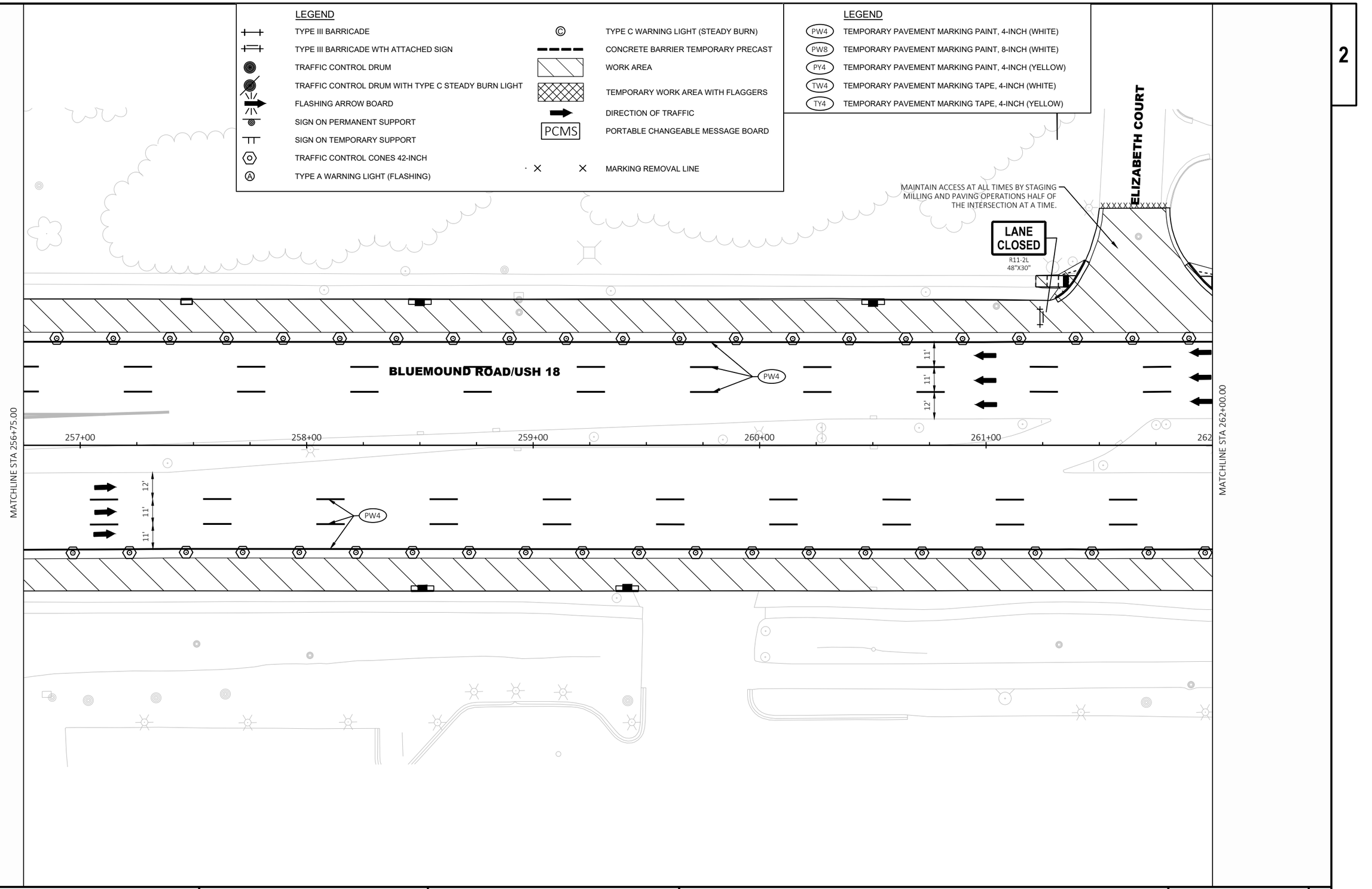
2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 409	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (8)

PLOT DATE : 3/21/2023 11:01 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

BLUEMOUND ROAD/USH 18

MATCHLINE STA 262+00.00

263+00 264+00 265+00 266+00 267+00

MATCHLINE STA 267+25.00

11' 11' 10' PW4

12' 11' 11' PW4

W

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 410	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (9)

PLOT DATE : 3/21/2023 11:01 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

N JANACEK RD

BLUEMOUND ROAD/USH 18

LANE CLOSED
R11-2L
48"X30"

PW4

11'
11'
12'

268+00
269+00
270+00
271+00
272+00

MATCHLINE STA 267+25.00

MATCHLINE STA 272+50.00

LANE CLOSED
R11-2L
48"X30"

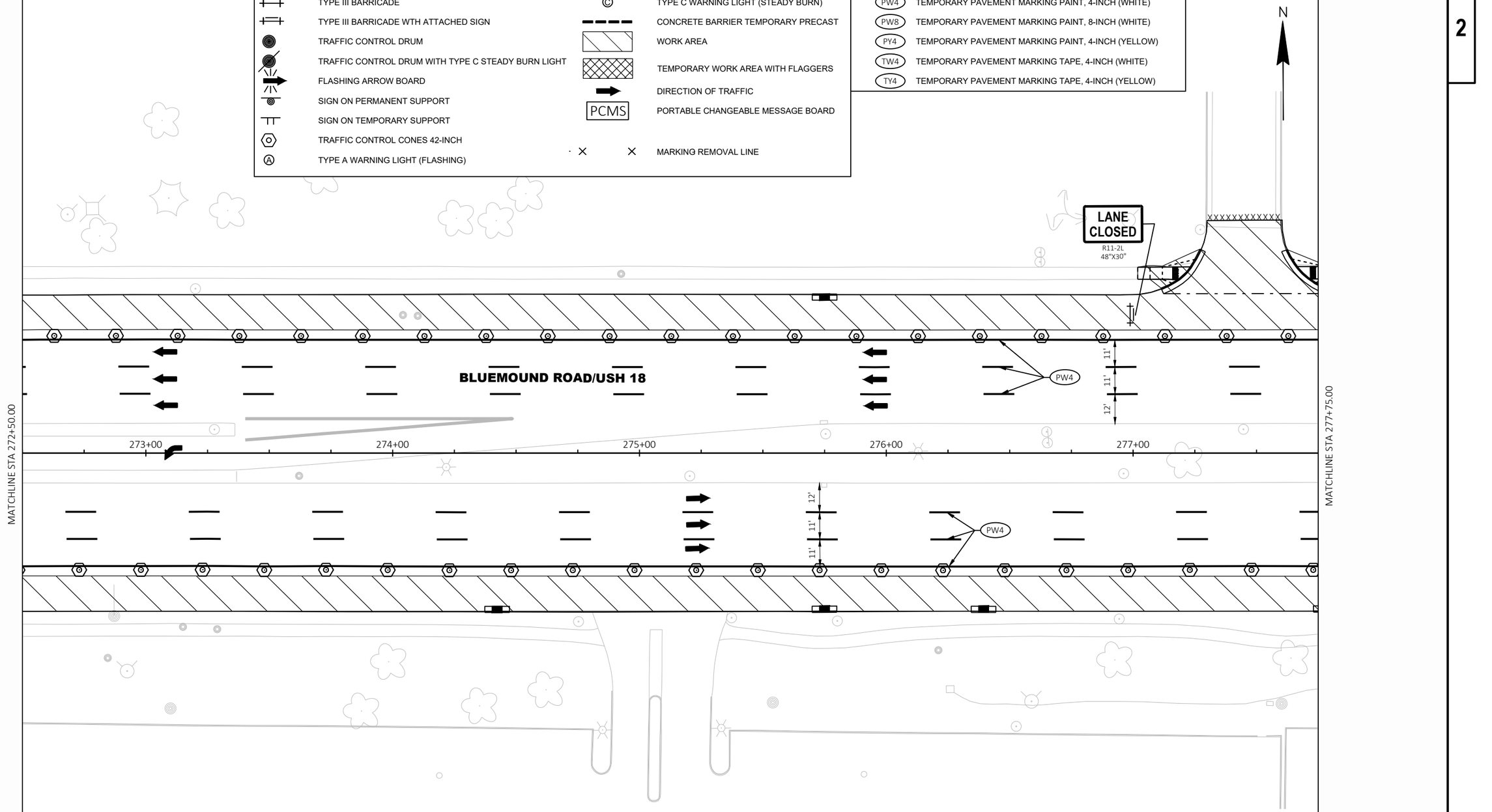
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 411	E

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

BLUEMOUND ROAD/USH 18

11'
11'
12'
PW4

278+00 279+00 280+00 281+00 282+00 283

MATCHLINE STA 277+75.00

12'
11'
11'
PW4

MATCHLINE STA 283+00.00

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 413	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (12)

PLOT DATE : 3/21/2023 11:02 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD (PCMS)
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	MARKING REMOVAL LINE
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

FRONTAGE ROAD

LANE CLOSED
R11-2L
48"X30"

BLUEMOUND ROAD/USH 18

11'
11'
12'

PW4

MATCHLINE STA 283+00.00

284+00 285+00 286+00 287+00 288+00

MATCHLINE STA 288+25.00

12'
11'
11'

PW4

LANE CLOSED
R11-2L
48"X30"

CA

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 414	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (13)

PLOT DATE : 3/21/2023 11:02 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD (PCMS)
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

FRONTAGE ROAD

BLUEMOUND ROAD/USH 18

PW4

PC: 290+97.99

11'
11'
12'

10'
11'
11'

289+00
290+00
291+00
292+00
293+00

MATCHLINE STA 288+25.00

MATCHLINE STA 293+50.00

NOPY

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 415	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (14)

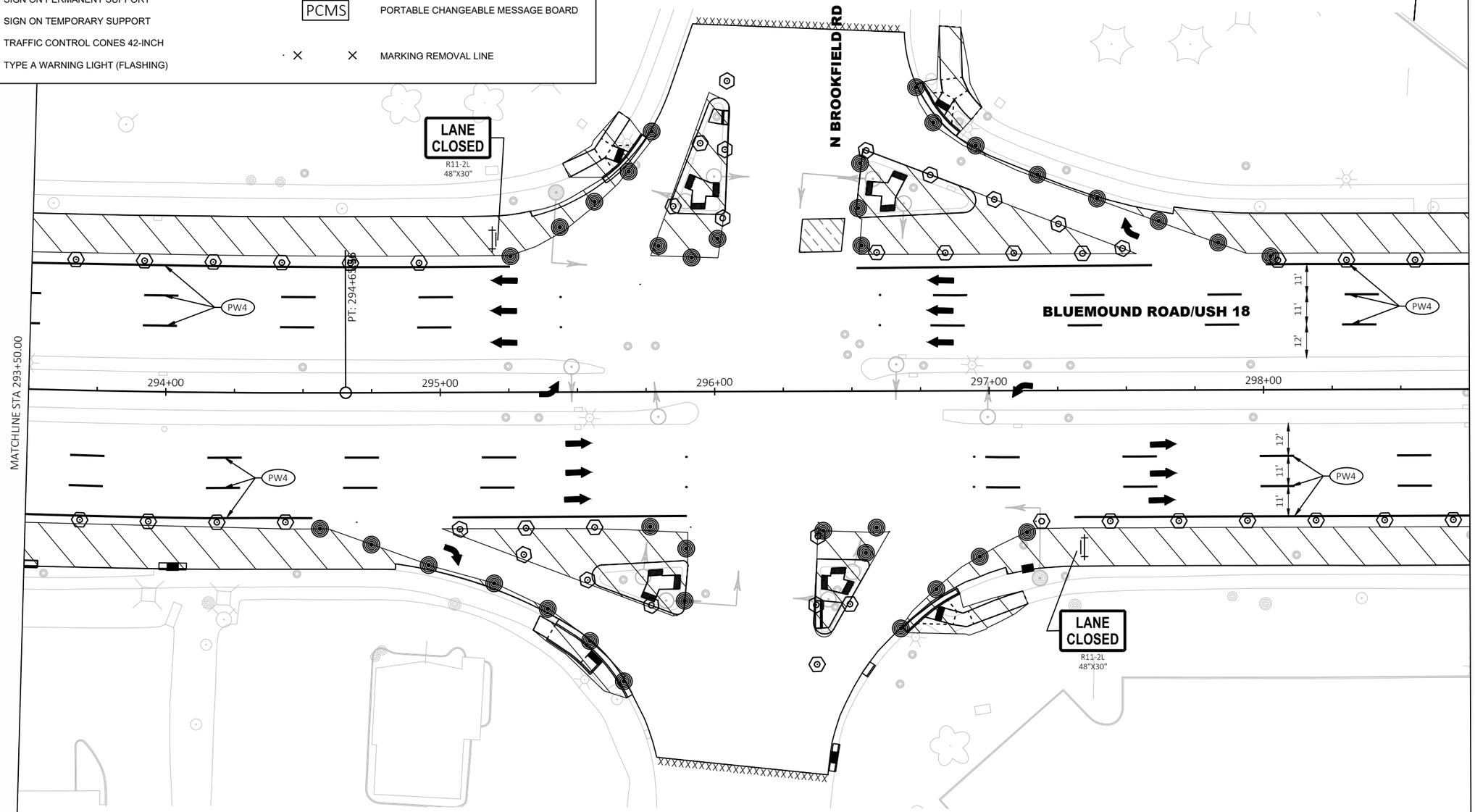
PLOT DATE : 3/21/2023 11:02 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

BLUEMOUND ROAD/USH 18

PW4

11'
11'
12'

299+00 300+00 301+00 302+00 303+00 304

MATCHLINE STA 298+75.00

MATCHLINE STA 304+00.00

PW4

12'
11'
11'

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 417	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (16)

PLOT DATE : 3/21/2023 11:03 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

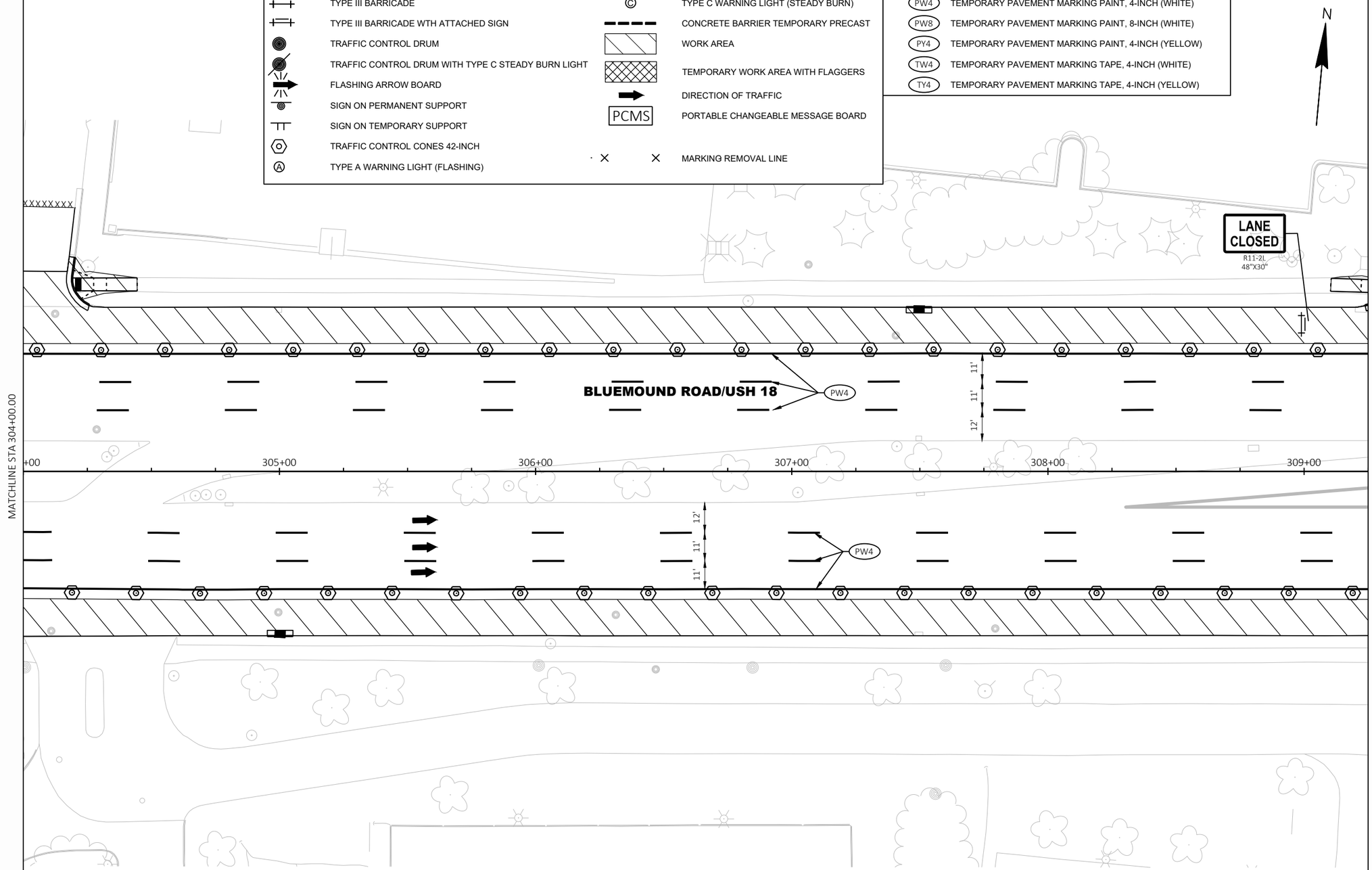
WISDOT/CADDS SHEET 42

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 418	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (17)

PLOT DATE : 3/21/2023 11:03 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

BLUEMOUND ROAD/USH 18

11'
11'
12'

PW4

310+00 311+00 312+00 313+00 314+00

MATCHLINE STA 309+25.00

MATCHLINE STA 314+50.00

12'
11'
11'

PW4

LANE CLOSED
R11-2L
48"X30"

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 419	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (18)
PLOT DATE : 3/21/2023 11:03 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 314+50.00

BLUEMOUND ROAD/USH 18

PW4

11'
11'
12'

PC: 319+64.42

315+00 316+00 317+00 318+00 319+00

MATCHLINE STA 319+75.00

12'
11'
11'

PW4

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 420	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (19)

PLOT DATE : 3/21/2023 11:03 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

BLUEMOUND ROAD/USH 18

WOELFEL RD

N CORPORATE DR

MATCHLINE STA 319+75.00

MATCHLINE STA 325+00.00

320+00 321+00 322+00 323+00 324+00 325

PW4

12'
11'
11'

LANE CLOSED
R11-2L
48"X30"

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 325+00.00

PT: 326+81.74

BLUEMOUND ROAD/USH 18

11' 11' 10'

PW4

+00 326+00 327+00 328+00 329+00 330+00

MATCHLINE STA 330+25.00

12' 11' 11'

PW4

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 422	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (21)

PLOT DATE : 3/21/2023 11:04 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 330+25.00

BLUEMOUND ROAD/USH 18

PW4

11'
11'
12'

331+00 332+00 333+00 334+00 335+00

MATCHLINE STA 335+50.00

12'
11'
11'

PW4

LANE CLOSED

R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 423	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (22)

PLOT DATE : 3/21/2023 11:04 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 335+50.00

LANE CLOSED
R11-2L
48"X30"

PW4

11'
11'
12'

BLUEMOUND ROAD/USH 18

336+00 337+00 338+00 339+00 340+00

MATCHLINE STA 340+75.00

12'
11'
11'

PW4

LANE CLOSED
R11-2L
48"X30"

DISCOVERY DR.

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 424	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (23)

PLOT DATE : 3/21/2023 11:04 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

BLUEMOUND ROAD/USH 18

PC: 342+03.49

MATCHLINE STA 340+75.00

MATCHLINE STA 346+00.00

341+00 342+00 343+00 344+00 345+00 346

PW4

11' 11' 12'

10' 11' 11'

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 425	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (24)

PLOT DATE : 3/21/2023 11:04 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

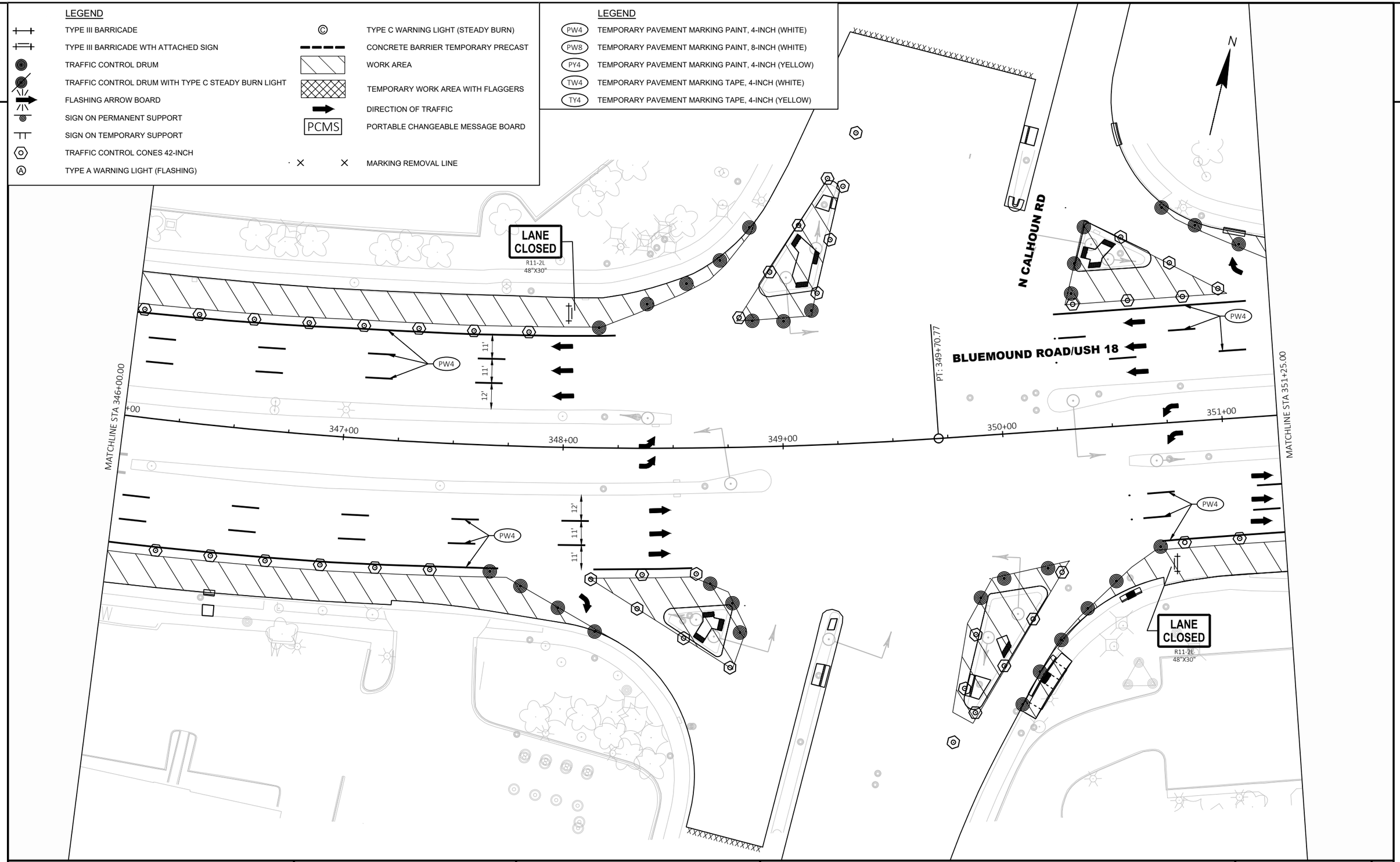
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 426	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (25)

PLOT DATE : 3/21/2023 11:04 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

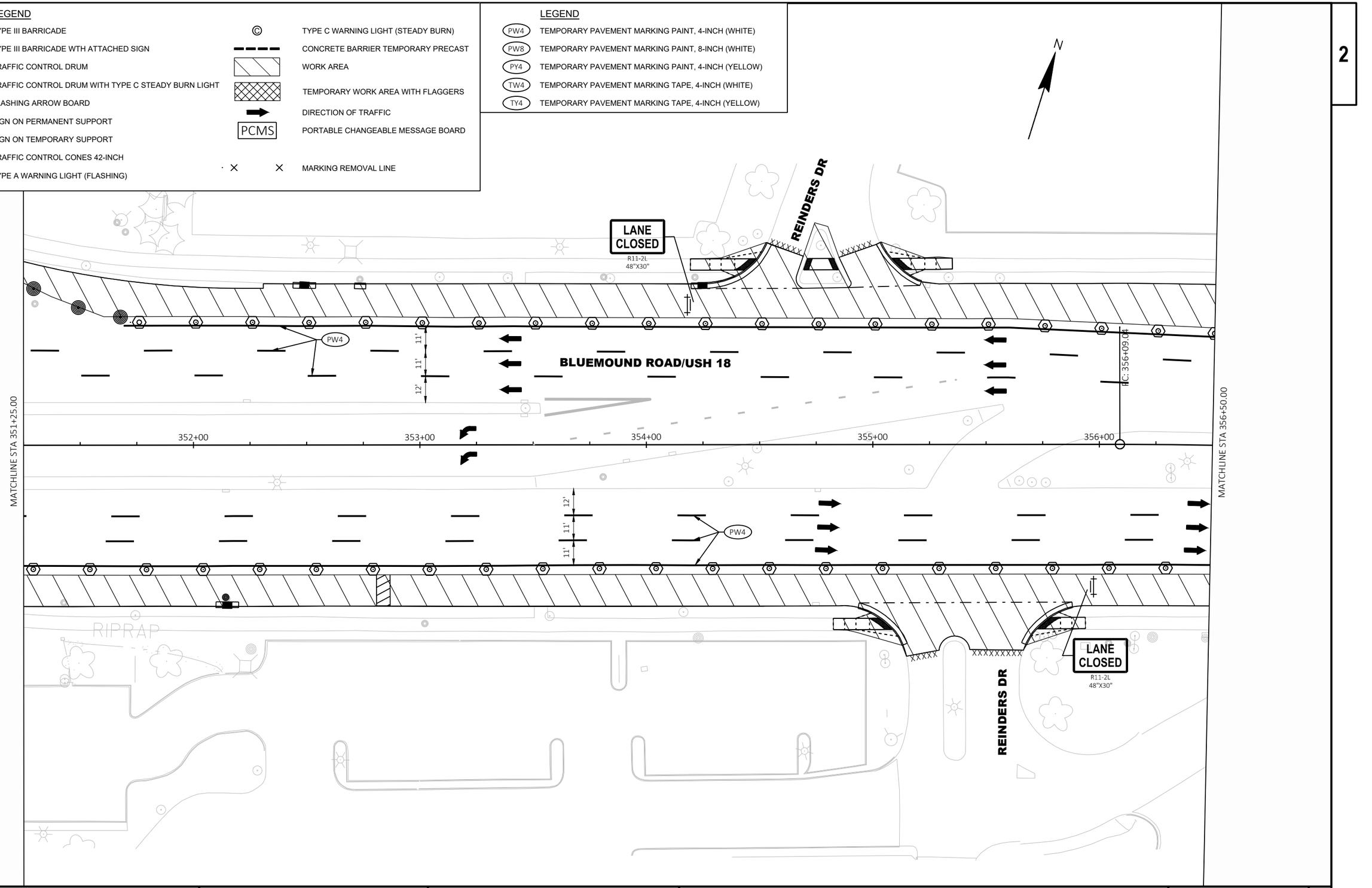
WISDOT/CADDS SHEET 42

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD (PCMS)
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



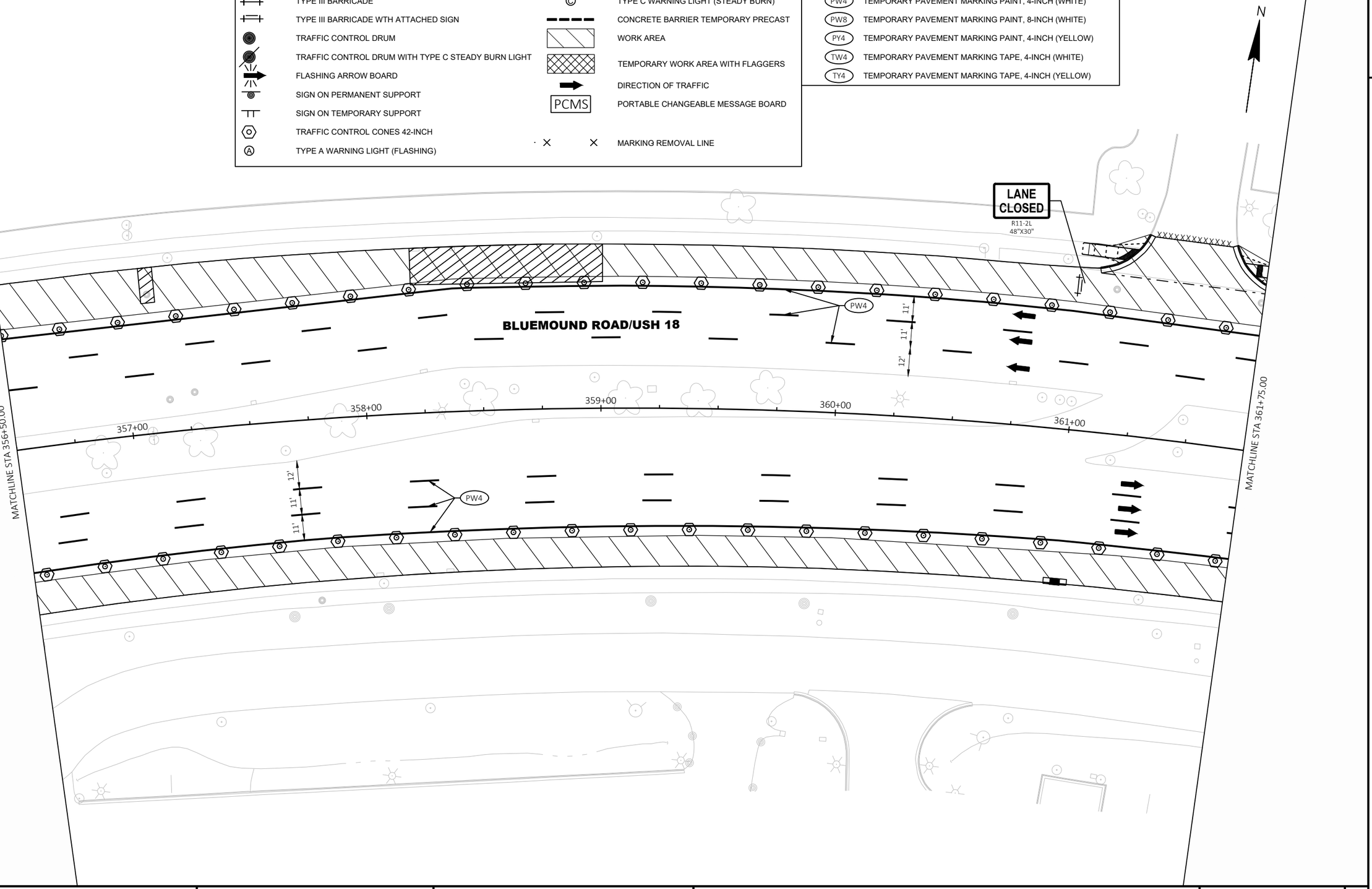
2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 428	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (27)

PLOT DATE : 3/21/2023 11:05 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

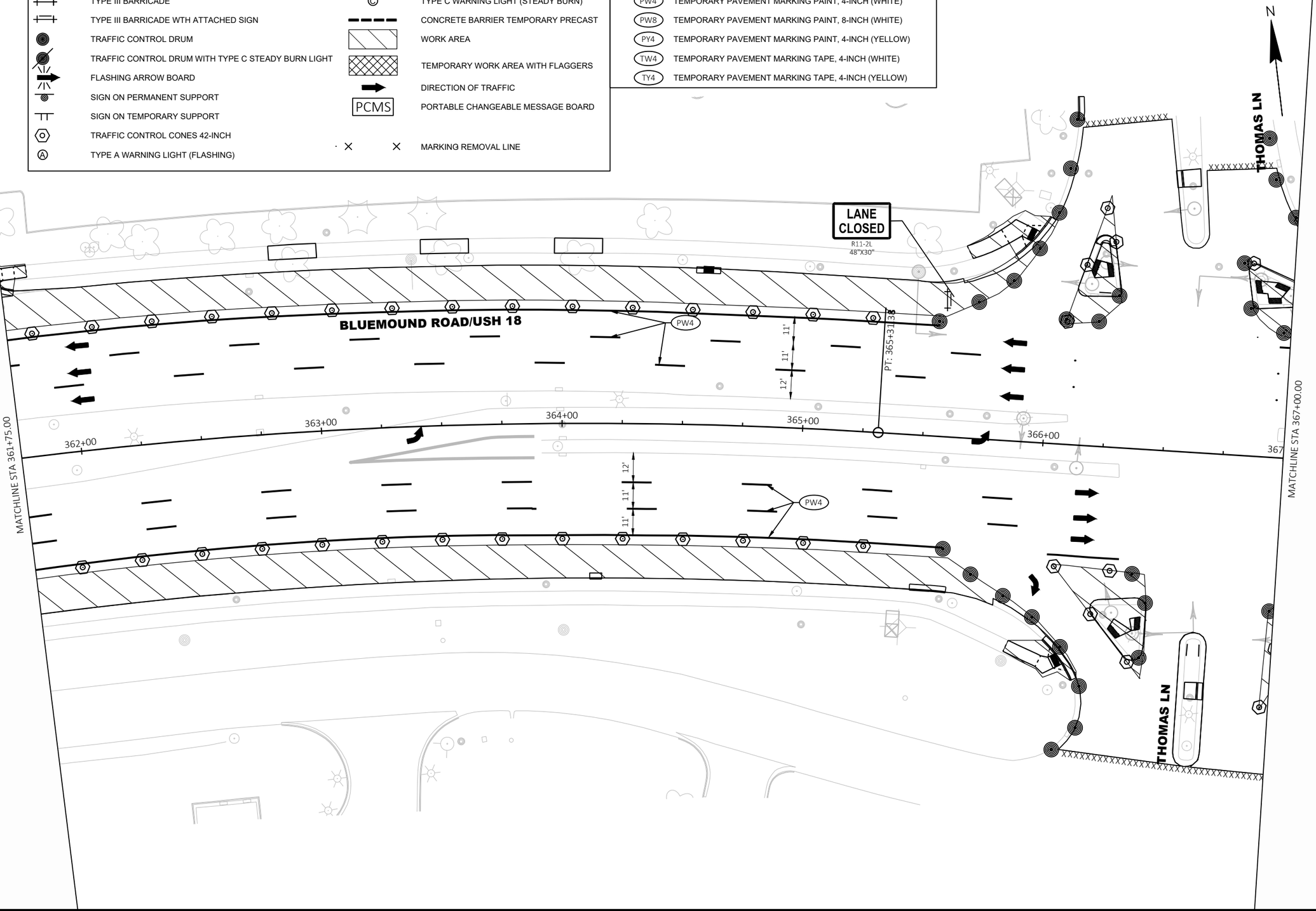
2

LEGEND

	TYPE III BARRICADE	©	TYPE C WARNING LIGHT (STEADY BURN)
	TYPE III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
	TRAFFIC CONTROL DRUM		WORK AREA
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		TEMPORARY WORK AREA WITH FLAGGERS
	FLASHING ARROW BOARD		DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT	PCMS	PORTABLE CHANGEABLE MESSAGE BOARD
	SIGN ON TEMPORARY SUPPORT		
	TRAFFIC CONTROL CONES 42-INCH		
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 429	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (28)

PLOT DATE : 3/21/2023 11:05 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD (PCMS)
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 367+00.00

BLUEMOUND ROAD/USH 18

PW4

11'
11'
10'

+00 368+00 369+00 370+00 371+00 372+00

MATCHLINE STA 372+25.00

12'
11'
11'

PW4

LANE CLOSED
R11-2L
48"X30"

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 430	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (29)

PLOT DATE : 3/21/2023 11:05 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

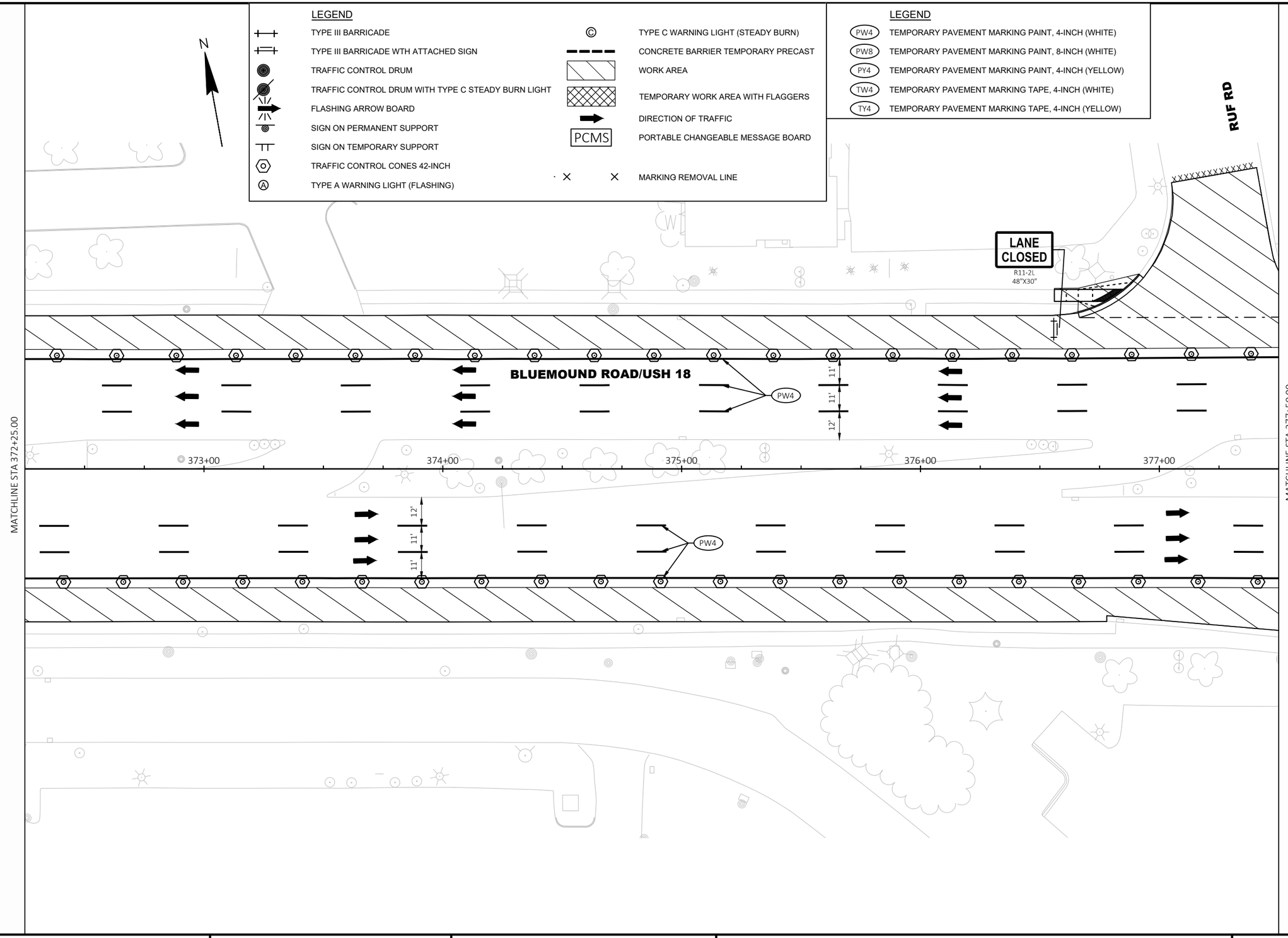
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 431	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (30)

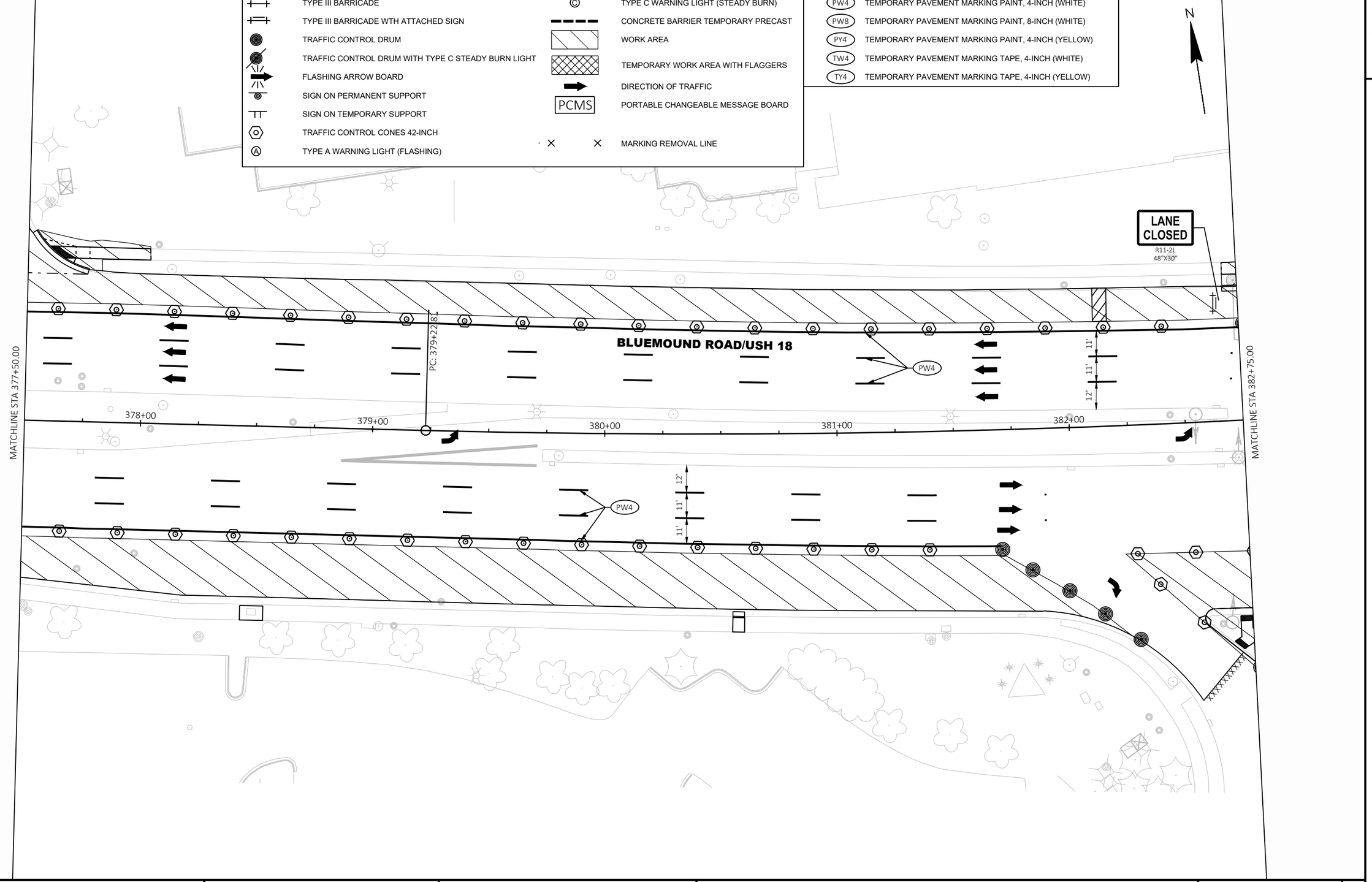
PLOT DATE : 3/21/2023 11:05 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	MARKING REMOVAL LINE
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 432	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (31)
PLOT DATE : 3/21/2023 11:06 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 382+75.00

MATCHLINE STA 388+00.00

PT: 384+58.28

BLUEMOUND ROAD/USH 18

383+00 384+00 385+00 386+00 387+00

PW4

11' 11' 10'

12' 11' 11'

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

N EXECUTIVE DR

FOUNTAIN

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

BLUEMOUND ROAD/USH 18

PW4

11'
11'
12'

389+00
390+00
391+00
392+00
393+00

MATCHLINE STA 388+00.00

MATCHLINE STA 393+25.00

MAIN ST

LANE CLOSED
R11-2L
48"X30"

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 434	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (33)

PLOT DATE : 3/21/2023 11:06 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

RIPRAP

BLUEMOUND ROAD/USH 18

PW4

11'
11'
12'

PC: 398+44.49

394+00 395+00 396+00 397+00 398+00

MATCHLINE STA 393+25.00

MATCHLINE STA 398+50.00

PW4

12'
11'
11'

LANE CLOSED
R11-2L
48"X30"

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 435	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (34)

PLOT DATE : 3/21/2023 11:06 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

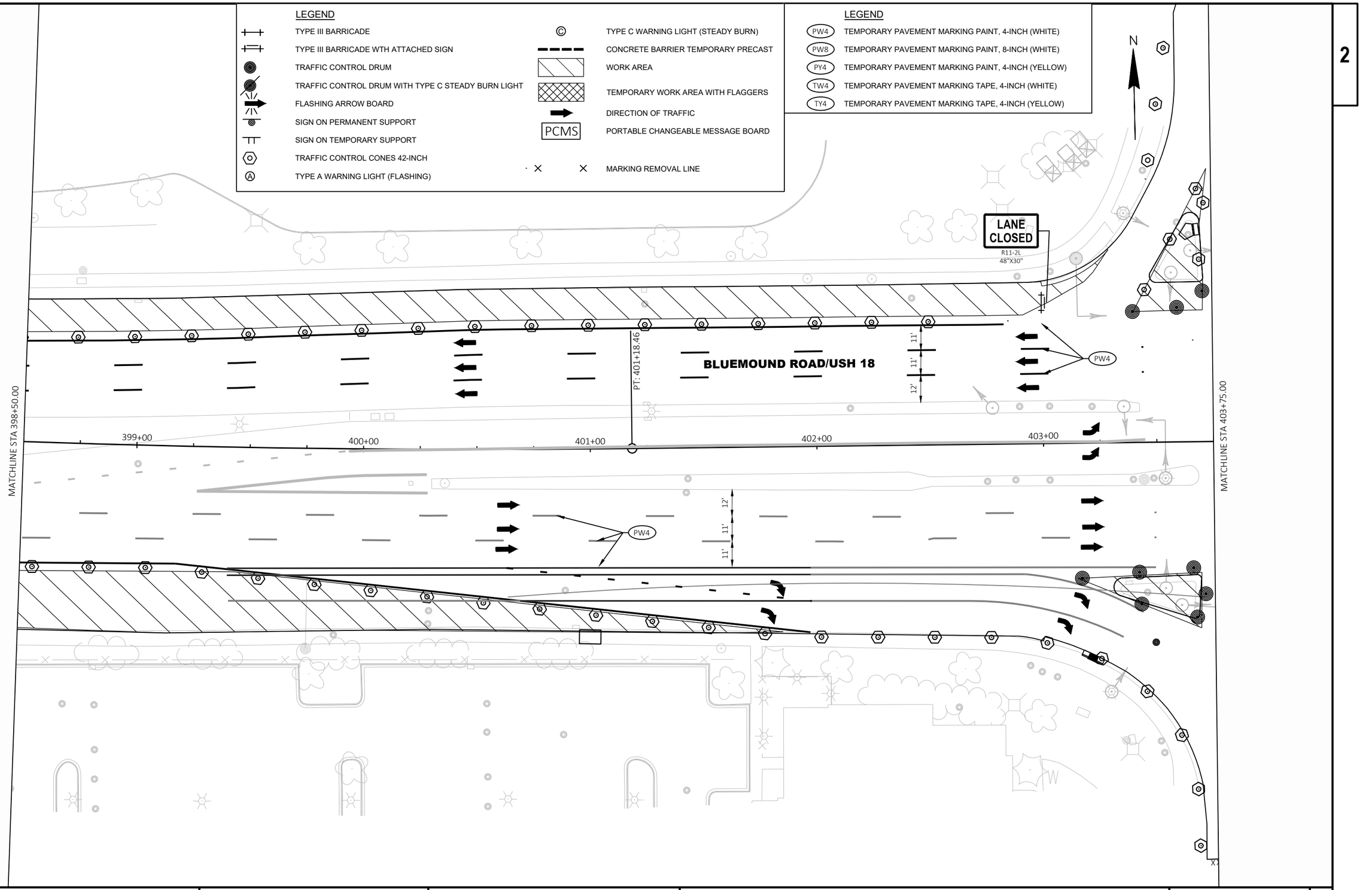
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 436	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (35)

PLOT DATE : 3/21/2023 11:06 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD (PCMS)
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

BLUEMOUND ROAD/USH 18

404+00 405+00 406+00 407+00 408+00 409

MATCHLINE STA 403+75.00

MATCHLINE STA 409+00.00

N MOORLAND RD

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 437	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (36)
PLOT DATE : 3/21/2023 11:07 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

BLUEMOUND ROAD/USH 18

MATCHLINE STA 409+00.00

+00 410+00 411+00 412+00 413+00 414+00

MATCHLINE STA 414+25.00

N FAIRWAY DR

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 438	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (37)

PLOT DATE : 3/21/2023 11:07 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

TERRACE DR

PLACE TRAFFIC CONTROL SIGN PCMS
FOR 7 CALENDAR DAYS PRIOR TO START
OF OFF PEAK CONSTRUCTION

PCMS

PC: 416+31.61

BLUEMOUND ROAD/USH 18

MATCHLINE STA 414+25.00

MATCHLINE STA 419+50.00

415+00 416+00 417+00 418+00 419+00

END
ROAD WORK
G20-2A
48"X24"

WESTMOOR DR

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
NIGHTLY LANE CLOSURES	BEGIN XXXDAY 8PM/6AM

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 439	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (38)

PLOT DATE : 3/21/2023 11:07 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 419+50.00

BLUEMOUND ROAD/USH 18

PT: 423+11.35

MATCHLINE STA 424+75.00

420+00 421+00 422+00 423+00 424+00

N PROSPECT DR

N LEANORE LN

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 440	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026201-S3.DWG
LAYOUT NAME - (39)

PLOT DATE : 3/21/2023 11:07 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK AREA
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	TEMPORARY WORK AREA WITH FLAGGERS
FLASHING ARROW BOARD	DIRECTION OF TRAFFIC
SIGN ON PERMANENT SUPPORT	PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
ROAD WORK	BEGINS XXXDAY XX/XX

PLACE TRAFFIC CONTROL PCMS FOR 7 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION

PCMS

RIGHT SHOULDER CLOSED W21-5A

N

MATCHLINE STA 424+75.00

BLUEMOUND ROAD/USH 18

425+00 426+00 427+00 428+00 429+00 430+00

N LYNNWOOD LN

ROAD WORK NEXT 3.5 MILES G20-1 60"X24"

PLACE "ROAD WORK NEXT 3.5 MILES" SIGN ON BOTH SIDES OF ROAD AT STA. 434+50, LT

RIGHT SHOULDER CLOSED AHEAD W21-5B

PLACE "RIGHT SHOULDER CLOSED AHEAD" SIGN ON BOTH SIDES OF ROAD AT STA. 441+75, LT

ROAD WORK AHEAD W20-1A

PLACE "ROAD WORK AHEAD" SIGN ON BOTH SIDES OF ROAD AT STA. 465+50, LT

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3	SHEET 441	E

REFER TO STANDARD DETAIL DRAWING TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY FOR CLOSING SIDEROAD TRAVEL LANES. TEMPORARY PAVEMENT MARKING NOT REQUIRED FOR SHORT TERM OFF-PEAK HOUR ONLY CLOSURES.

LANE CLOSED
R11-2L
48"X30"

N BARKER RD

BLUEMOUND ROAD/USH 18

12'

MATCHLINE STA 241+00.00

241+00 242+00 243+00 244+00 245+00 246+00

MATCHLINE STA 246+25.00

FLAGGING RIGHT TURN

FLAGGING RIGHT TURN

LANE CLOSED
R11-2L
48"X30"

RIPRAP

REFER TO STANDARD DETAIL DRAWING TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY FOR CLOSING SIDEROAD TRAVEL LANES. TEMPORARY PAVEMENT MARKING NOT REQUIRED FOR SHORT TERM OFF-PEAK HOUR ONLY CLOSURES.

OPTIONAL OFF-PEAK HOURS SIDE ROAD CLOSURE EXAMPLE

STAGE 3, OFF-PEAK

- CLOSE LANES 2, 3, & AUX. LANE
- PAVE THRU INTERSECTION, (EB SHOWN) LANE 3 & AUX. LANE
  - CLOSE NB THRU LANES AND LEFT TURN LANES
  - CLOSE SB THRU AND IF MULTIPLE LEFT TURN LANES, INSIDE ONE LANE TO REMAIN OPEN
  - NB RIGHT TURN TO REMAIN OPEN WITH FLAGGING
  - CLOSE WB LEFT TURN
  - CLOSE LANES IN ACCORDANCE WITH STANDARD DETAIL DRAWINGS
- WB PAVING SHALL IMPLEMENT THE ABOVE CLOSURES IN THE OPPOSITE DIRECTIONS

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- (A) TYPE A WARNING LIGHT (FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

N

LEGEND

- (PW4) TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- (PW8) TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- (PY4) TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- (TW4) TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- (TY4) TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 3 - OFF-PEAK	SHEET 442	E

2

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

BLUEMOUND ROAD/USH 18

220+00 221+00 222+00 223+00 224+00 225+00

MATCHLINE STA 225+25.00

TY4

TW4

ROAD WORK 500 FT — W20-1D

PLACE "ROAD WORK 500 FT" SIGN AT STA. 218+00, RT

WO1-4BR

PLACE ONE "ROAD WORK AHEAD" SIGN ON BOTH SIDES OF EASTBOUND ROADWAY AT STA. 216+00, RT

PCMS

PLACE TRAFFIC CONTROL SIGN PCMS FOR 7 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION

ROAD WORK 1000 FT — W20-1C

PLACE "ROAD WORK 1,000 FT" SIGN AT STA. 213+00, RT

ROAD WORK AHEAD — W20-1A

PLACE "ROAD WORK AHEAD" SIGN AT STA. 203+00, RT

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
NEW TRAFFIC PATTERN	BEGINS XXXDAY XX/XX

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 443	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (1)

PLOT DATE : 3/21/2023 11:08 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

BLUEMOUND ROAD/USH 18

226+00 227+00 228+00 229+00 230+00

MATCHLINE STA 225+25.00

MATCHLINE STA 230+50.00

TY4

TW4

WO1-6
48"X24"

LANE CLOSED
R11-2L
48"X30"

PCMS

PLACE TRAFFIC CONTROL SIGN PCMS
FOR 7 CALENDAR DAYS PRIOR TO START
OF OFF PEAK CONSTRUCTION

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
NIGHTLY LANE CLOSURES	BEGIN XXXDAY 8PM/6AM

IH 94

MH

W

INL

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 444	E

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

WO1-6
48"X24"

TY4

BLUEMOUND ROAD/USH 18

PC: 234+69.10

MATCHLINE STA 230+50.00

231+00

232+00

233+00

234+00

235+00

MATCHLINE STA 235+75.00

TY4

TW4

LANE CLOSED
R11-2L
48"X30"

POST

W POST

RIPRAP

RIPRAP

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 445	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (3)

PLOT DATE : 3/21/2023 11:09 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

CTH JJ

BLUEMOUND ROAD/USH 18

PY4

236+00

237+00

238+00

239+00

240+00

241+00

MATCHLINE STA 235+75.00

MATCHLINE STA 241+00.00

PW8

TW4

TW8

BEGIN LEFT TURN LANE
R3-20L
24"X36"

LANE CLOSED
R11-2L
48"X30"

POST

BERM

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 446	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (4)

PLOT DATE : 3/21/2023 11:09 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

SYMBOL LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK AREA
FLASHING ARROW BOARD	TEMPORARY WORK AREA WITH FLAGGERS
SIGN ON PERMANENT SUPPORT	DIRECTION OF TRAFFIC
SIGN ON TEMPORARY SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE
TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD	

N

N BARKER RD

BLUEMOUND ROAD/USH 18

WO1-6
48"X24"

LANE CLOSED
R11-2L
48"X30"

25'
12'
11'

TW4
PW4
+00.07
-29.72' LT
PW8

242+00
243+00
244+00
245+00
246+00

MATCHLINE STA 241+00.00

MATCHLINE STA 246+25.00

PW4
TW4
TW8

WO1-6
48"X24"

PY4
PW4
TW4

12'
8"
22'

IPRAP

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 447 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (5)
PLOT DATE : 3/21/2023 11:10 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 246+25.00

MATCHLINE STA 251+50.00

BEGIN LEFT TURN LANE
R3-20L
24"X36"

TW4
PW4
PY4
10'
12'
11'

+31.09
-29.42' LT

BLUEMOUND ROAD/USH 18

247+00 248+00 249+00 250+00 251+00

+00.83
44.14' RT

+50.80
43.90' RT

PW8
PW4
TW4
11'
12'
10'

BEGIN LEFT TURN LANE
R3-20L
24"X36"

LANE CLOSED
R11-2L
48"X30"

U/C U/C

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 448	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (6)

PLOT DATE : 3/21/2023 11:10 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

N

POPLAR CREEK PKWY

WO1-6
48"X24"

LANE CLOSED
R11-2L
48"X30"

TW4
PW4
PY4

10'
12'
11'

BLUEMOUND ROAD/USH 18

PW8
+31.67
-29.73' LT

252+00
253+00
254+00
255+00
256+00

MATCHLINE STA 251+50.00

MATCHLINE STA 256+75.00

PW4
TW4
PY4
PW4
TW4

WO1-6
48"X24"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 449 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (7)

PLOT DATE : 3/21/2023 11:10 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

ELIZABETH COURT

BEGIN LEFT TURN LANE
R3-20L
24"X36"

LANE CLOSED
R11-2L
48"X30"

TW4
PW4
PY4
10'
12'
11'

+00.01
-29.69' LT

BLUEMOUND ROAD/USH 18

257+00 258+00 259+00 260+00 261+00 262

MATCHLINE STA 256+75.00

MATCHLINE STA 262+00.00

PY4
PW4
TW4
11'
12'
10'

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 450	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (8)

PLOT DATE : 3/21/2023 11:10 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 262+00.00

MATCHLINE STA 267+25.00

BLUEMOUND ROAD/USH 18

262+00 263+00 264+00 265+00 266+00 267+00

LANE CLOSED
R11-2L
48"X30"

TW4
PW4
PY4
10'
12'
11'

+02.13
29.86' RT

+61.11
29.81' RT

PY4
PW8
PW4
TW4
11'
12'
10'

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 451	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (9)

PLOT DATE : 3/21/2023 11:11 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

SYMBOL LEGEND

TYPE III BARRICADE	TYPE C WARNING LIGHT (STEADY BURN)
TYPE III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	TEMPORARY PEDESTRIAN BARRICADE
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK AREA
FLASHING ARROW BOARD	TEMPORARY WORK AREA WITH FLAGGERS
SIGN ON PERMANENT SUPPORT	DIRECTION OF TRAFFIC
SIGN ON TEMPORARY SUPPORT	PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL CONES 42-INCH	
TYPE A WARNING LIGHT (FLASHING)	MARKING REMOVAL LINE
TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD	

N

N JANACEK RD

BLUEMOUND ROAD/USH 18

RIPRAP

WO1-6
48"X24"

TW4
PW4
PY4
PW8

10'
12'
11'

268+00
269+00
270+00
271+00
272+00

MATCHLINE STA 267+25.00

MATCHLINE STA 272+50.00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 452 E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (10)

PLOT DATE : 3/21/2023 11:11 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

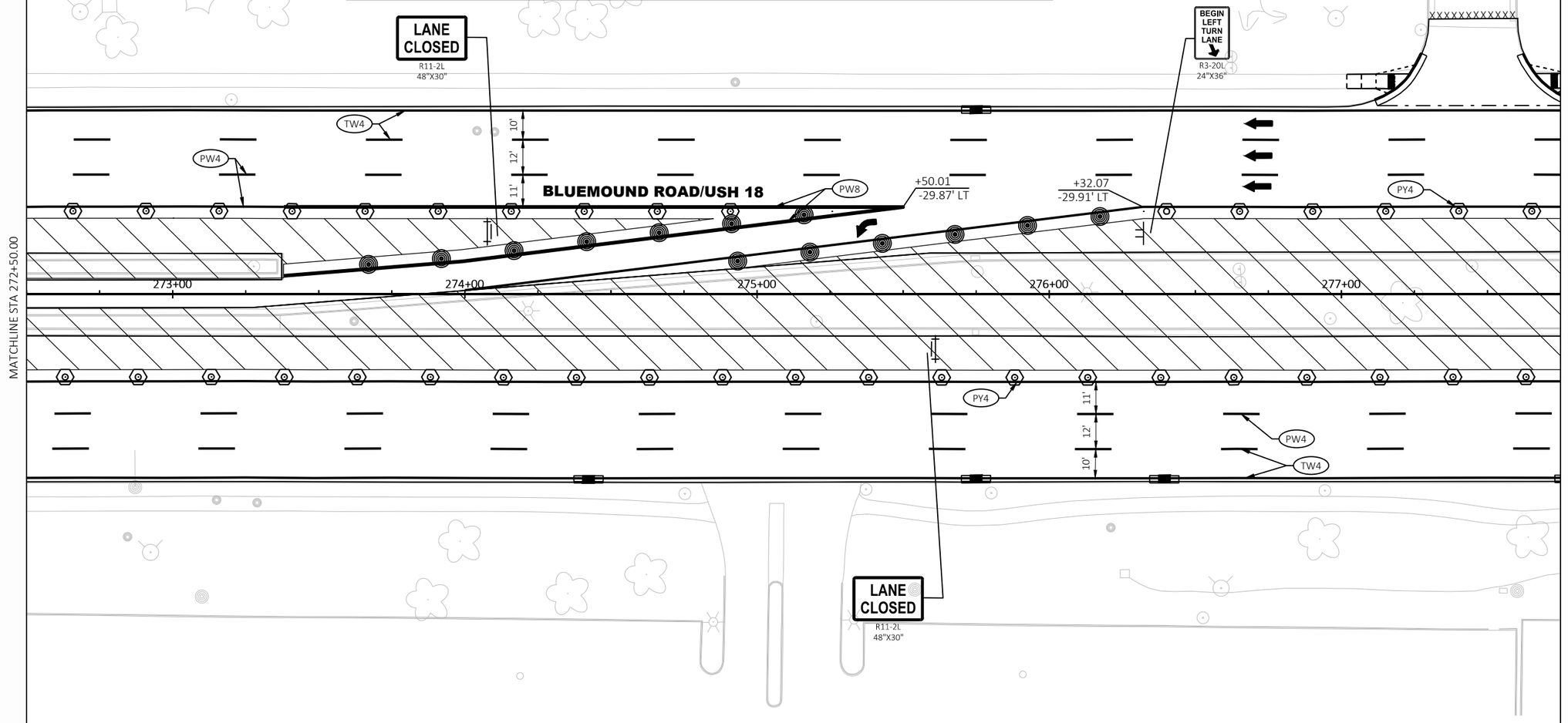
SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 453	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (11)

PLOT DATE : 3/21/2023 11:11 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

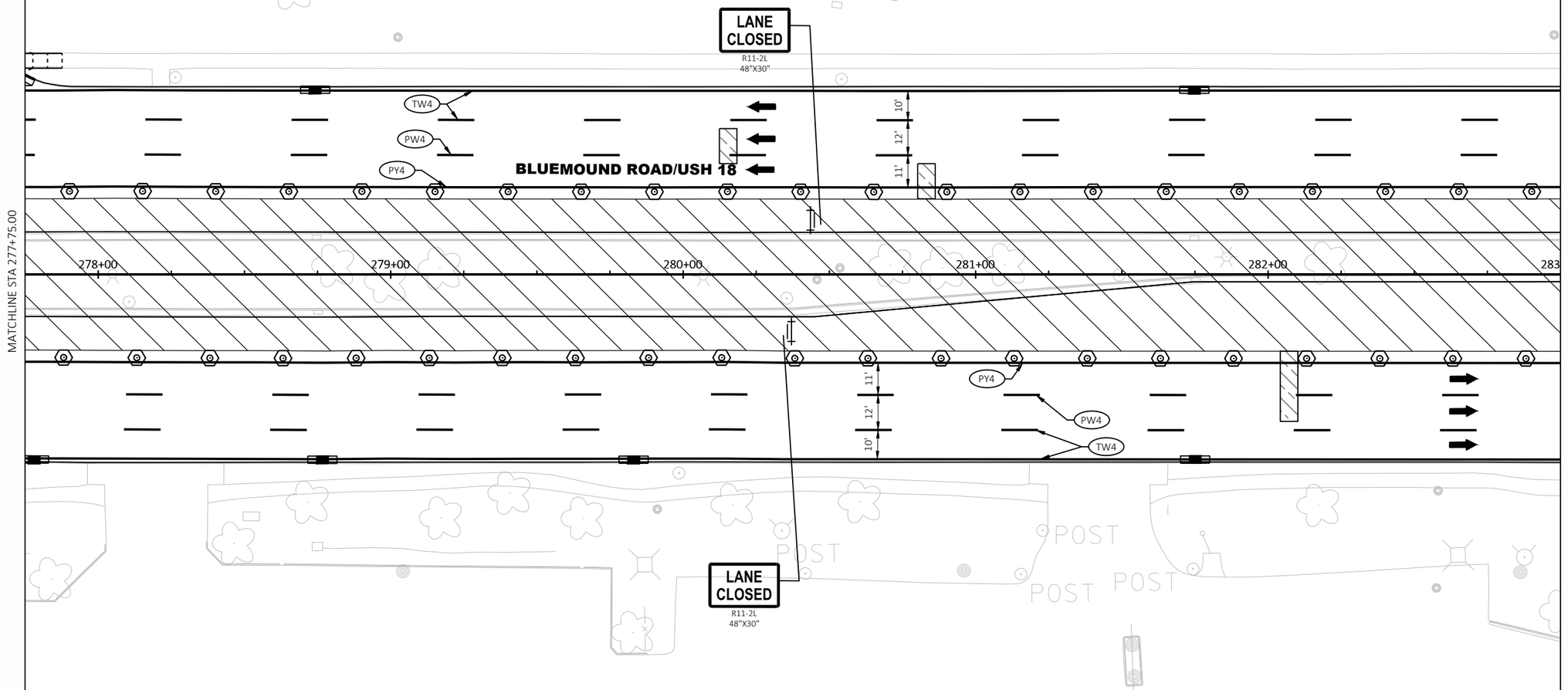
SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 454	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (12)

PLOT DATE : 3/21/2023 11:11 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

FRONTAGE ROAD

LANE CLOSED
R11-2L
48"X30"

TW4
PW4
PY4
10'
12'
11'

BLUEMOUND ROAD/USH 18

MATCHLINE STA 283+00.00

+00
284+00
285+00
286+00
287+00
288+00

MATCHLINE STA 288+25.00

PY4
11'
12'
10'
PW4
TW4

+93.64
29.78' RT

BEGIN LEFT TURN LANE
R3-20L
24"X36"

LANE CLOSED
R11-2L
48"X30"

POST
POST
POST
POST
POST
POST
POST
CA

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 455	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (13)
PLOT DATE : 3/21/2023 11:12 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

FRONTAGE ROAD

LANE CLOSED
R11-2L
48"X30"

TW4
PW4
PY4

10'
12'
11'

PC: 290+97.95

BLUEMOUND ROAD/USH 18

MATCHLINE STA 288+25.00

289+00
290+00
291+00
292+00
293+00

MATCHLINE STA 293+50.00

+50.06
29.54' RT

PW8

11'
12'
10'

PW4
TW4

LANE CLOSED
R11-2L
48"X30"

NOPY

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 456	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (14)

PLOT DATE : 3/21/2023 11:12 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

N BROOKFIELD RD

BLUEMOUND ROAD/USH 18

WO1-6
48"X24"

TW4
PW4
PY4

10'
12'
11'

294+65.56

294+00
295+00
296+00
297+00
298+00

MATCHLINE STA 293+50.00

MATCHLINE STA 298+75.00

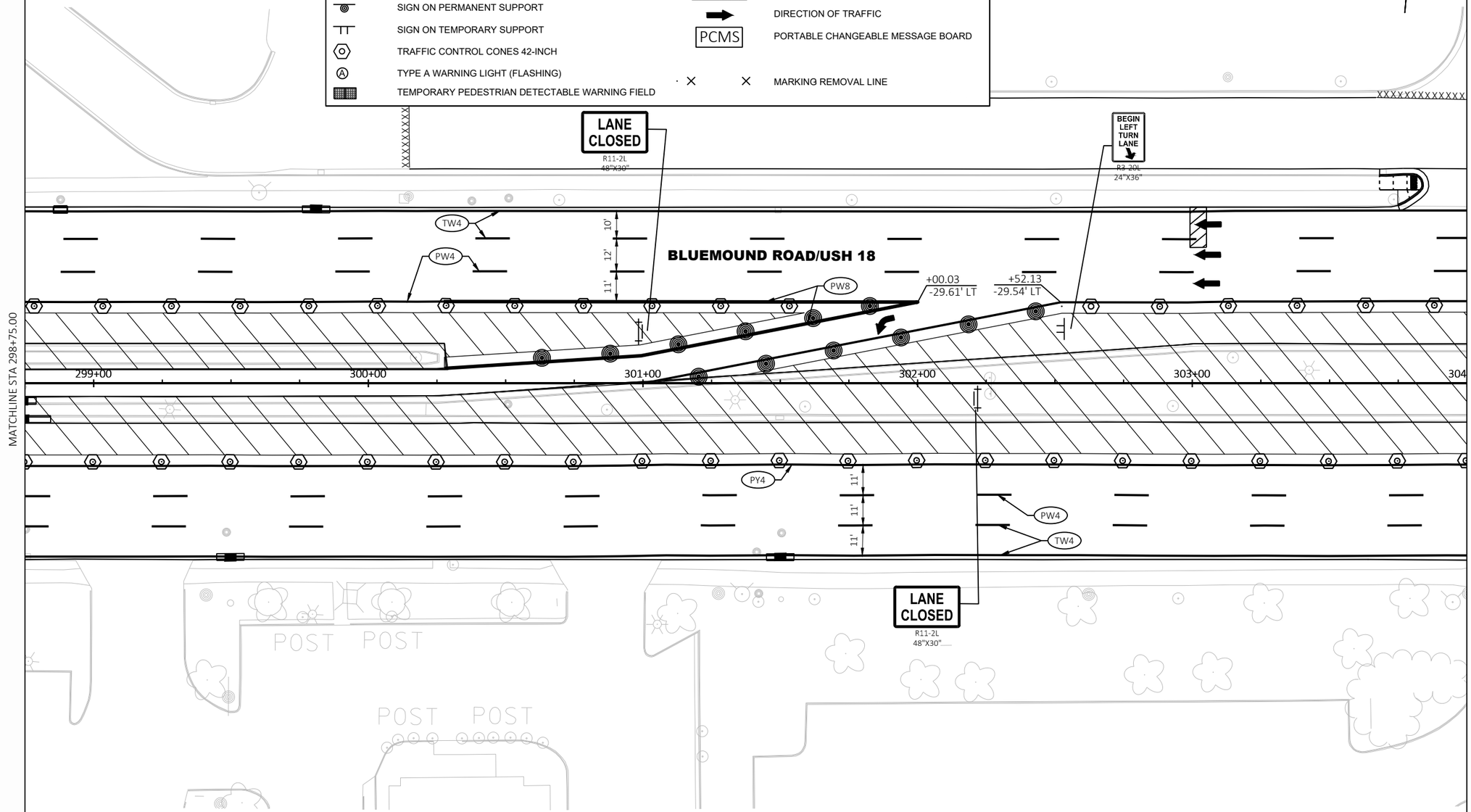
SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N



2

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

XXXXXXXX

LANE CLOSED
R11-2L
48"X30"

TW4
PW4
PY4

10'
12'
11'

BLUEMOUND ROAD/USH 18

MATCHLINE STA 304+00.00

+00 305+00 306+00 307+00 308+00 309+00

MATCHLINE STA 309+25.00

11'
11'
11'

PY4
PW4
TW4

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 459	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (17)

PLOT DATE : 3/21/2023 11:12 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 309+25.00

LANE CLOSED
R11-2L
48"X30"

TW4
PW4
PY4

10'
12'
11'

BLUEMOUND ROAD/USH 18

310+00 311+00 312+00 313+00 314+00

MATCHLINE STA 314+50.00

PY4
PW4
TW4

11'
11'
11'

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 460	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (18)

PLOT DATE : 3/21/2023 11:13 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

TW4
PW4
PY4
10'
12'
11'

BLUEMOUND ROAD/USH 18

PC: 319+64.42

MATCHLINE STA 314+50.00

315+00 316+00 317+00 318+00 319+00

MATCHLINE STA 319+75.00

PY4

+31.33
29.85' RT

+99.98
30.00' RT

PW8

11'
11'
11'

PW4
TW4

BEGIN LEFT TURN LANE
R3-20L
24"X36"

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 461	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (19)

PLOT DATE : 3/21/2023 11:13 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

WO1-6
48"X24"

BLUEMOUND ROAD/USH 18

WOELFEL RD

N CORPORATE DR

MATCHLINE STA 319+75.00

MATCHLINE STA 325+00.00

320+00 321+00 322+00 323+00 324+00 325

TW4 PW4 PY4

10' 12' 11'

FLAG

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 462	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (20)
PLOT DATE : 3/21/2023 11:13 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 325+00.00

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

TW4
PW4
PW8
PY4
10'
12'
11'
PT: 326+81.74

BLUEMOUND ROAD/USH 18

326+00
327+00
328+00
329+00
330+00

MATCHLINE STA 330+25.00

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 463	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (21)

PLOT DATE : 3/21/2023 11:13 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

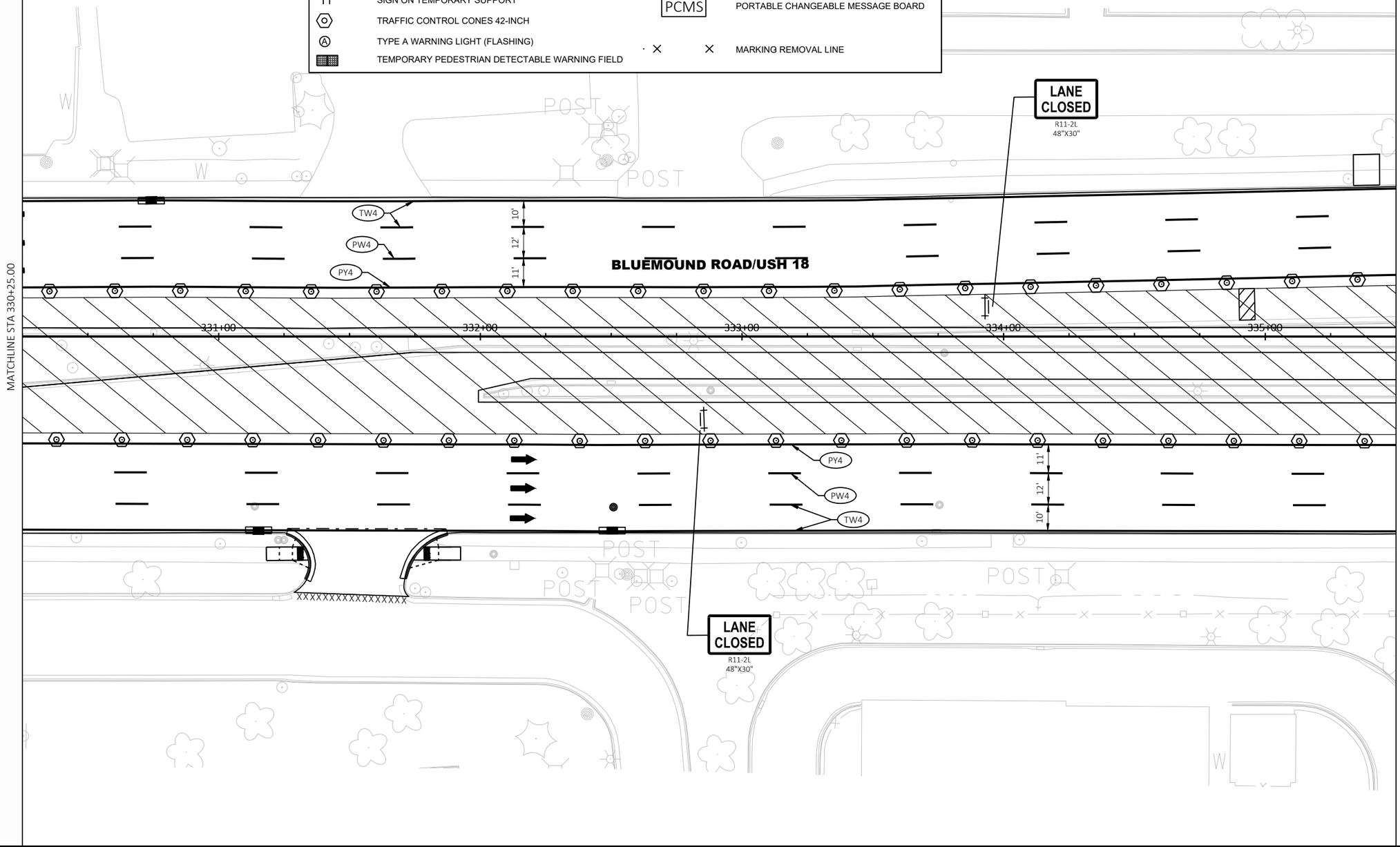
SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 464	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (22)

PLOT DATE : 3/21/2023 11:14 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 335+50.00

MATCHLINE STA 340+75.00

LANE CLOSED
R11-2L
48"X30"

TW4
PW4
PY4

10'
12'
11'

BLUEMOUND ROAD/USH 18

336+00 337+00 338+00 339+00 340+00

PY4
PW4
TW4

11'
12'
10'

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 465	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (23)

PLOT DATE : 3/21/2023 11:14 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

BLUEMOUND ROAD/USH 18

TW4
PW4
PY4

10'
12'
11'

BP: 342+09.49

MATCHLINE STA 340+75.00

341+00
342+00
343+00
344+00
345+00
346

MATCHLINE STA 346+00.00

PY4
PW4

+00.37
43.16' RT

+00.20
42.27' RT

PW8

PW4
TW4

BEGIN LEFT TURN LANE
R3-20L
24"X36"

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 466	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (24)

PLOT DATE : 3/21/2023 11:14 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

N CALHOUN RD

BLUEMOUND ROAD/USH 18

WO1-6
48"X24"

TW4
PW4
PY4

10'
12'
11'

PT: 349+70.77

MATCHLINE STA 346+00.00

MATCHLINE STA 351+25.00

346+00
347+00
348+00
349+00
350+00
351+00

POST

FILLER CAP

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 467	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (25)
PLOT DATE : 3/21/2023 11:14 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

REINDERS DR

BEGIN LEFT TURN LANE
R3-20L
24"X36"

TW4
PW4
10'
12'
11'

BLUEMOUND ROAD/USH 18

PW8
+14.86
-35.61' LT

+32.60
-32.33' LT
PY4

STA 356+09.04

MATCHLINE STA 351+25.00

352+00 353+00 354+00 355+00 356+00

MATCHLINE STA 356+50.00

PY4
11'
12'
10'
PW4
TW4

RIPRAP

REINDERS DR

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 468	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (26)

PLOT DATE : 3/21/2023 11:14 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

TW4
PW4
PY4

BLUEMOUND ROAD/USH 18

10'
12'
11'

357+00
358+00
359+00
360+00
361+00

MATCHLINE STA 356+50.00

MATCHLINE STA 361+75.00

PY4
PW4
TW4

11'
12'
10'

+25.43
31.36' RT

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 469	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (27)

PLOT DATE : 3/21/2023 11:15 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

THOMAS LN

THOMAS LN

POST

BLUEMOUND ROAD/USH 18

WO1-6
48"X24"

TW4

PW4

PY4

365+31.38

10'
12'
11'

362+00

363+00

364+00

365+00

366+00

367

MATCHLINE STA 361+75.00

MATCHLINE STA 367+00.00

PW8

PW4

TW4

11'
12'
10'

+86.17
30.63' RT

LANE
CLOSED

R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 470	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (28)

PLOT DATE : 3/21/2023 11:15 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

BLUEMOUND ROAD/USH 18

TW4
PW4
PY4
PW8

10'
12'
11'

+99.99
-29.95' LT

+62.59
-29.94' LT

MATCHLINE STA 367+00.00

368+00
369+00
370+00
371+00
372+00

MATCHLINE STA 372+25.00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 471	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (29)
PLOT DATE : 3/21/2023 11:15 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

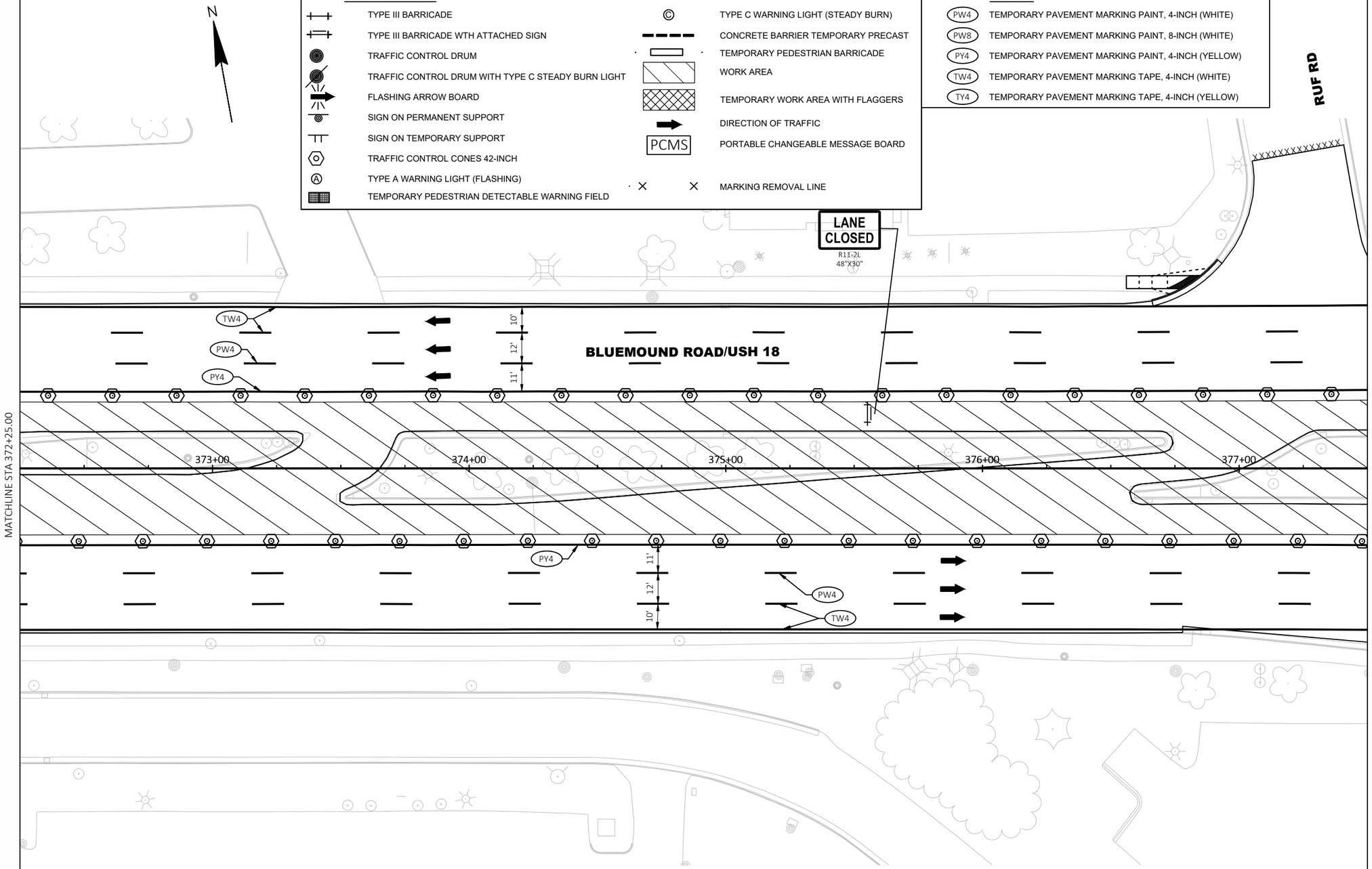
2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 472	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (30)

PLOT DATE : 3/21/2023 11:15 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

WO1-6
48"X24"

POST
POST

FLAG

MATCHLINE STA 377+50.00

10'
12'
11'

TW4
PW4
PY4

PC 379+22.81

BLUEMOUND ROAD/USH 18

378+00
379+00
380+00
381+00
382+00

MATCHLINE STA 382+75.00

+00.00
29.91' RT

+85.87
29.91' RT

PW8

PW4
TW4

11'
12'
10'

BEGIN LEFT TURN LANE
R3-20L
24"X36"

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 473	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (31)

PLOT DATE : 3/21/2023 11:16 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 382+75.00

MATCHLINE STA 388+00.00

LANE CLOSED
R1.1-2L
48"X30"

FOUNTAIN

BLUEMOUND ROAD/USH 18

PT 384+98.28

10'
12'
11'

TW4
PW4
PW8

383+00
384+00
385+00
386+00
387+00

PY4
PW4
TW4

11'
12'
10'

+33.07
41.07' RT

+99.44
41.34' RT

PW8

W01-6
48"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

N EXECUTIVE DR

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 474	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (32)

PLOT DATE : 3/21/2023 11:16 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 388+00.00

MATCHLINE STA 393+25.00

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO1-6
48"X24"

BLUEMOUND ROAD/USH 18

+99.99
-19.09' LT

+58.83
-19.06' LT

PW8
PW4
TW4
PY4
10'
12'
11'

388+00
389+00
390+00
391+00
392+00
393+00

LANE CLOSED
R11-2L
48"X30"

MAIN ST

WO1-6
48"X24"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 475	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (33)

PLOT DATE : 3/21/2023 11:16 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

RIPRAP

BEGIN LEFT TURN LANE
R3-20L
24"X36"

BLUEMOUND ROAD/USH 18

TW4
PW4
10'
12'
11'
PW8
+99.69
-22.99' LT
+49.03
-23.33' LT
PY4
394+00
395+00
396+00
397+00
398+00
MATCHLINE STA 393+25.00
MATCHLINE STA: 398+04.49
MATCHLINE STA 398+50.00
+79.32
33.18' RT
TW4
TW8
PY4
TW4
11'
12'
10'
LANE CLOSED
R11-2L
48"X30"
BEGIN LEFT TURN LANE
R3-20L
24"X36"

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 476	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (34)
PLOT DATE : 3/21/2023 11:16 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

W01-6
48"X24"

TW4
PW4
PY4

10'
12'
11'

BLUEMOUND ROAD/USH 18

PT: 401+18.46

MATCHLINE STA 398+50.00

399+00
400+00
401+00
402+00
403+00

MATCHLINE STA 403+75.00

+09.74
33.84' RT

PW8

PW4
TW4

11'
14'

ONLY
ONLY

LANE CLOSED
R11-2L
48"X30"

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 477	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (35)

PLOT DATE : 3/21/2023 11:16 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

TW8

TW4

PW4

BLUEMOUND ROAD/USH 18

404+00 405+00 406+00 407+00 408+00 409

MATCHLINE STA 403+75.00

MATCHLINE STA 409+00.00

PY4

TW4

W01-6
48"X24"

N MOORLAND RD

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 478	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (36)

PLOT DATE : 3/21/2023 11:17 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

MATCHLINE STA 409+00.00

MATCHLINE STA 414+25.00

BLUEMOUND ROAD/USH 18

BEGIN LEFT TURN LANE
R3-2DL
24"X36"

PW8

PY4

410+00

411+00

412+00

413+00

414+00

PY4

TW4

PW8

LANE CLOSED
R11-2L
48"X30"

DRIVEWAY/PARKING ENTRANCE

N FAIRWAY DR

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 479	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (37)

PLOT DATE : 3/21/2023 11:17 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

TERRACE DR

PLACE TRAFFIC CONTROL SIGN PCMS
FOR 7 CALENDAR DAYS PRIOR TO START
OF OFF PEAK CONSTRUCTION

WO1-6
48"X24"

PCMS

TW4

PY4

PC: 416+31.61

TW8

BLUEMOUND ROAD/USH 18

MATCHLINE STA 414+25.00

MATCHLINE STA 419+50.00

415+00

416+00

417+00

418+00

419+00

TY4

WESTMOOR DR

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
NIGHTLY LANE CLOSURES	BEGIN XXXDAY 8PM/6AM

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 480	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (38)

PLOT DATE : 3/21/2023 11:17 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

PW4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
PW8	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
PY4	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
TW4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
TY4	TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

N

BEGIN LEFT TURN LANE
R3-20L
24"X36"

TW4
TY4
PT: 423+11.35

BLUEMOUND ROAD/USH 18

MATCHLINE STA 419+50.00

420+00
421+00
422+00
423+00
424+00

MATCHLINE STA 424+75.00

TY4
TW4

N PROSPECT DR

N LEANORE LN

2

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 481	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (39)

PLOT DATE : 3/21/2023 11:17 AM PLOT BY : MANSKE, CALEB PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

ROAD WORK 1000 FT (W20-1C)

PLACE "ROAD WORK 1,000 FT" SIGN AT STA. 433+00, LT

ROAD WORK AHEAD (W20-1A)

PLACE "ROAD WORK AHEAD" SIGN AT STA. 443+00, LT

N

TRAFFIC CONTROL SIGNS PCMS MESSAGE

PANEL 1	PANEL 2
NEW TRAFFIC PATTERN	BEGINS XXXDAY XX/XX

PLACE TRAFFIC CONTROL SIGN PCMS FOR 7 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION

PCMS

ROAD WORK 500 FT (W20-1D)

(W01-4BR)

MATCHLINE STA 424+75.00

BLUEMOUND ROAD/USH 18

425+00 426+00 427+00 428+00 429+00 430+00

N LYNNWOOD LN

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4	SHEET 482	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\026301-S4.DWG
LAYOUT NAME - (40)
PLOT DATE : 3/21/2023 11:17 AM
PLOT BY : MANSKE, CALEB
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

REFER TO STANDARD DETAIL DRAWING TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY FOR CLOSING SIDEROAD TRAVEL LANES. TEMPORARY PAVEMENT MARKING NOT REQUIRED FOR SHORT TERM OFF-PEAK HOUR ONLY CLOSURES.

SYMBOL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL CONES 42-INCH
- TYPE A WARNING LIGHT (FLASHING)
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY PEDESTRIAN BARRICADE
- WORK AREA
- TEMPORARY WORK AREA WITH FLAGGERS
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- MARKING REMOVAL LINE

LANE CLOSED
R11-2L
48"X30"

WO1-6
48"X24"

N BARKER RD

BLUEMOUND ROAD/USH 18

N

WO1-6
48"X24"

MATCHLINE STA 241+00.00

242+00

243+00

244+00

245+00

246+00

MATCHLINE STA 246+25.00

12'

IPRAP

LANE CLOSED
R11-2L
48"X30"

WO1-6
48"X24"

REFER TO STANDARD DETAIL DRAWING TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY FOR CLOSING SIDEROAD TRAVEL LANES. TEMPORARY PAVEMENT MARKING NOT REQUIRED FOR SHORT TERM OFF-PEAK HOUR ONLY CLOSURES.

OPTIONAL OFF-PEAK HOURS SIDE ROAD CLOSURE EXAMPLE

STAGE 4, OFF-PEAK

- CLOSE LANES 1, 2, AND 3
- PAVE THRU INTERSECTION (EB SHOWN) LANES 1 & 2
  - CLOSE NB THRU LANES AND LEFT TURN LANES
  - CLOSE SB THRU AND LEFT TURN LANES
  - NB RIGHT TURN TO REMAIN
  - CLOSE WB LEFT TURN
  - CLOSE LANES IN ACCORDANCE WITH STANDARD DETAIL DRAWINGS
- WB PAVING SHALL IMPLEMENT THE ABOVE CLOSURES IN THE OPPOSITE DIRECTIONS

LEGEND

- PW4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (WHITE)
- PW8 — TEMPORARY PAVEMENT MARKING PAINT, 8-INCH (WHITE)
- PY4 — TEMPORARY PAVEMENT MARKING PAINT, 4-INCH (YELLOW)
- TW4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (WHITE)
- TY4 — TEMPORARY PAVEMENT MARKING TAPE, 4-INCH (YELLOW)

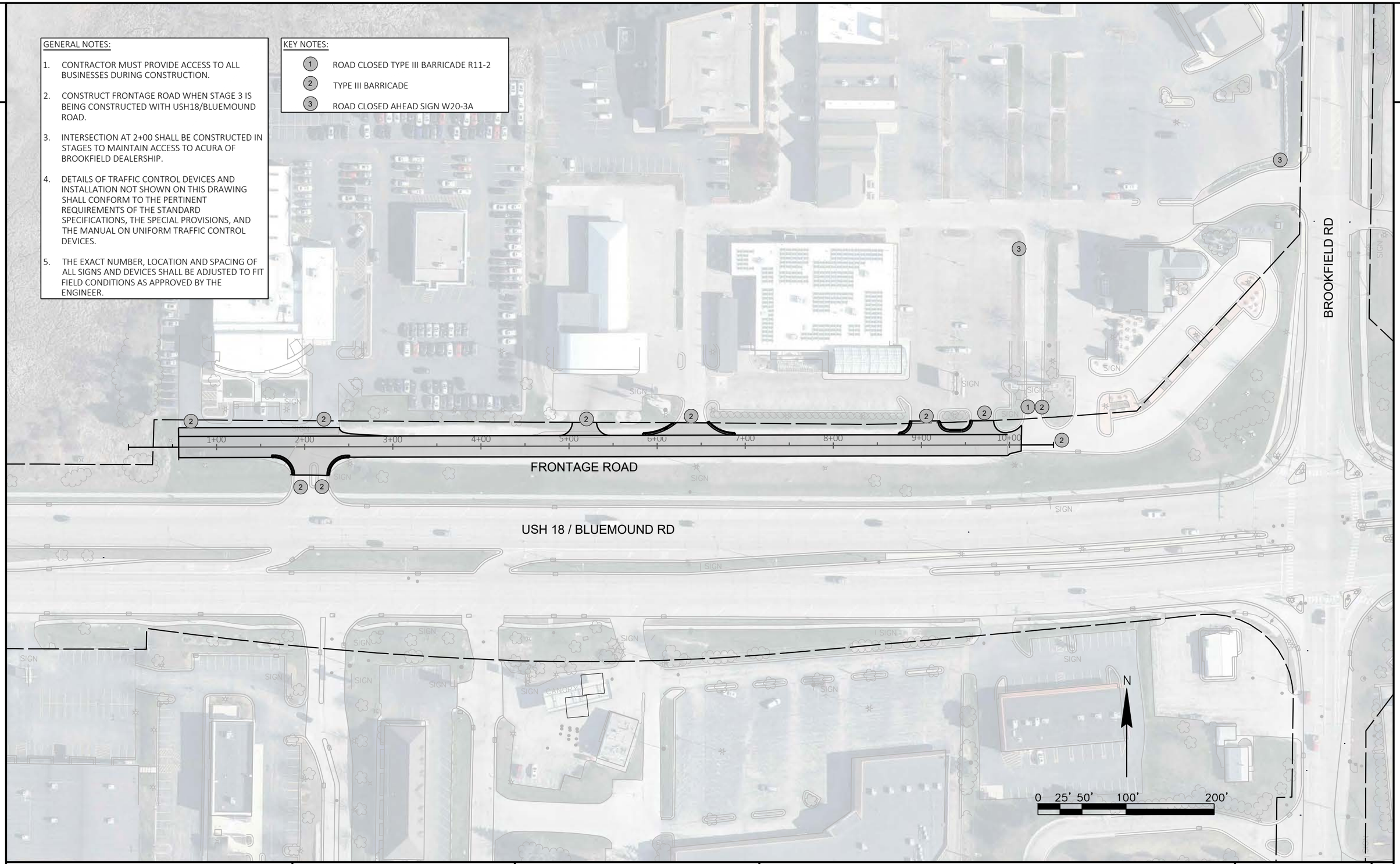
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	STAGE CONSTRUCTION - STAGE 4 - OFF-PEAK	SHEET 483	E

GENERAL NOTES:

1. CONTRACTOR MUST PROVIDE ACCESS TO ALL BUSINESSES DURING CONSTRUCTION.
2. CONSTRUCT FRONTAGE ROAD WHEN STAGE 3 IS BEING CONSTRUCTED WITH USH18/BLUEMOUND ROAD.
3. INTERSECTION AT 2+00 SHALL BE CONSTRUCTED IN STAGES TO MAINTAIN ACCESS TO ACURA OF BROOKFIELD DEALERSHIP.
4. DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
5. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

KEY NOTES:

1. ROAD CLOSED TYPE III BARRICADE R11-2
2. TYPE III BARRICADE
3. ROAD CLOSED AHEAD SIGN W20-3A



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	TRAFFIC CONTROL PLAN	SHEET 484	E

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\025100-TC.DWG
LAYOUT NAME - 025100-tc
PLOT DATE : 1/30/2023 9:37 AM
PLOT BY : DECENT, ZACH
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

PI: 237+86.09

N

C = 4

225 L6 230 235 240 245 250 255

USH 18 (BLUEMOUND RD)

USH 18 R/L

MATCHLINE STA 255+50.00

2

MATCHLINE STA 255+50.00

N

260 265 L7 270 275 280 285

USH 18 (BLUEMOUND RD)

USH 18 R/L

MATCHLINE STA 286+00.00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 485	E

2

2

N

MATCHLINE STA 286+00.00

290

295

C = 5

PI: 292+81.90

USH 18 (BLUEMOUND RD)

300

USH 18 R/L

305

L8

310

315

MATCHLINE STA 316+50.00

N

MATCHLINE STA 316+50.00

PI: 323+24.14

320

325

C = 6

USH 18 (BLUEMOUND RD)

330

USH 18 R/L

L9

335

340

345

C = 7

MATCHLINE STA 347+00.00

PI: 345+95.25

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 486	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - Sheet - (2)

PLOT DATE : 1/25/2023 10:10 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

L23 55

PI: 360+79.38

N

USH 18 (BLUEMOUND RD)

USH 18 R/L

360

C = 8

365

STA 349+60.40 USH 18 R/L =
STA 50+00.03 CALHOUN RD

355

L10

370

L11

375

MATCHLINE STA 347+00.00

PI: 50+00.00

350

PI: 50+00.00

CALHOUN RD

MATCHLINE STA 377+50.00

L25

N

STA 404+28.70 USH 18 R/L =
STA 50+00.00 MOORLAND RD R/L

MATCHLINE STA 377+50.00

380

C = 9

385

390

L12

395

USH 18 (BLUEMOUND RD)

USH 18 R/L

400

C = 10

PI: 50+00.00

405

MATCHLINE STA 408+00.00

PI: 381+90.85

PI: 399+61.51

MOORLAND RD

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 487	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - Sheet - (3)

PLOT DATE : 1/25/2023 10:10 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 408+00.00

L13

410

415

420

C = 11

PI: 419+73.08

USH 18 (BLUEMOUND RD)

USH 18 R/L

425

L14

430

PI: 435+05.91

435

C = 12

MATCHLINE STA 438+50.00

N

MATCHLINE STA 438+50.00

440

L15

445

USH 18 (BLUEMOUND RD)

PI: 446+91.56

450

USH 18 R/L

L16

455

460

PI: 459+15.90

L17

465

C = 13

PI: 466+58.60

MATCHLINE STA 469+00.00

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 488	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - Sheet - (4)

PLOT DATE : 1/25/2023 10:10 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 469+00.00

USH 18 (BLUEMOUND RD)

470 475 L18 480 485 490 495

USH 18 R/L

C = 14

PI: 485+62.30

MATCHLINE STA 499+50.00

N

MATCHLINE STA 499+50.00

USH 18 (BLUEMOUND RD)

L19 500 505 510 L20 515 L21 520

USH 18 R/L

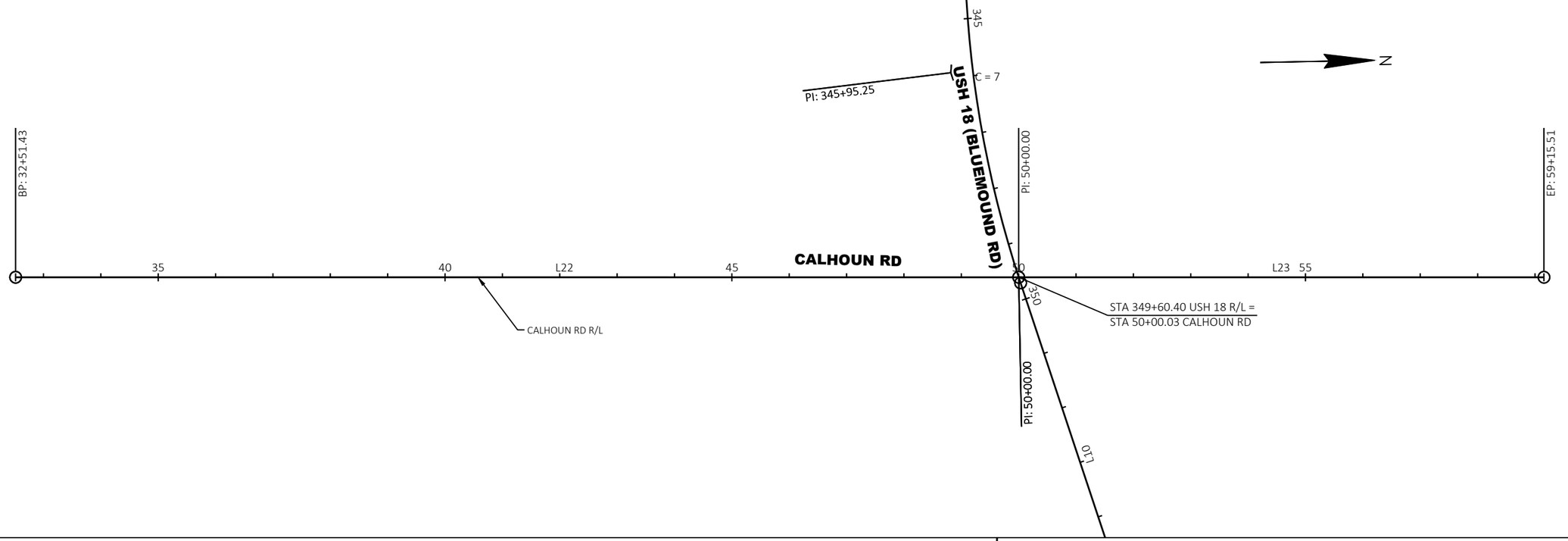
PI: 513+42.28

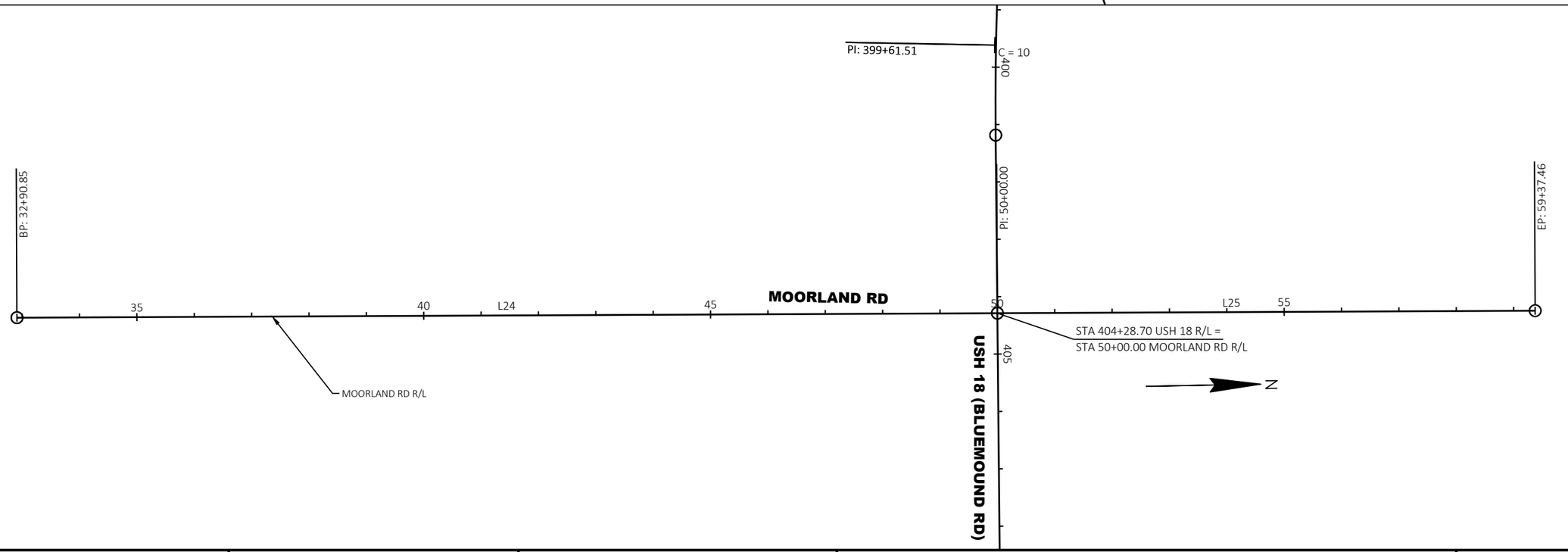
PI: 511+03.50

C = 15

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 489	E

2





PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	ALIGNMENT PLAN	SHEET 490	E

FILE NAME : T:\1202708\CIVIL3D\22002000\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - Sheet - (7)
PLOT DATE : 1/25/2023 10:10 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

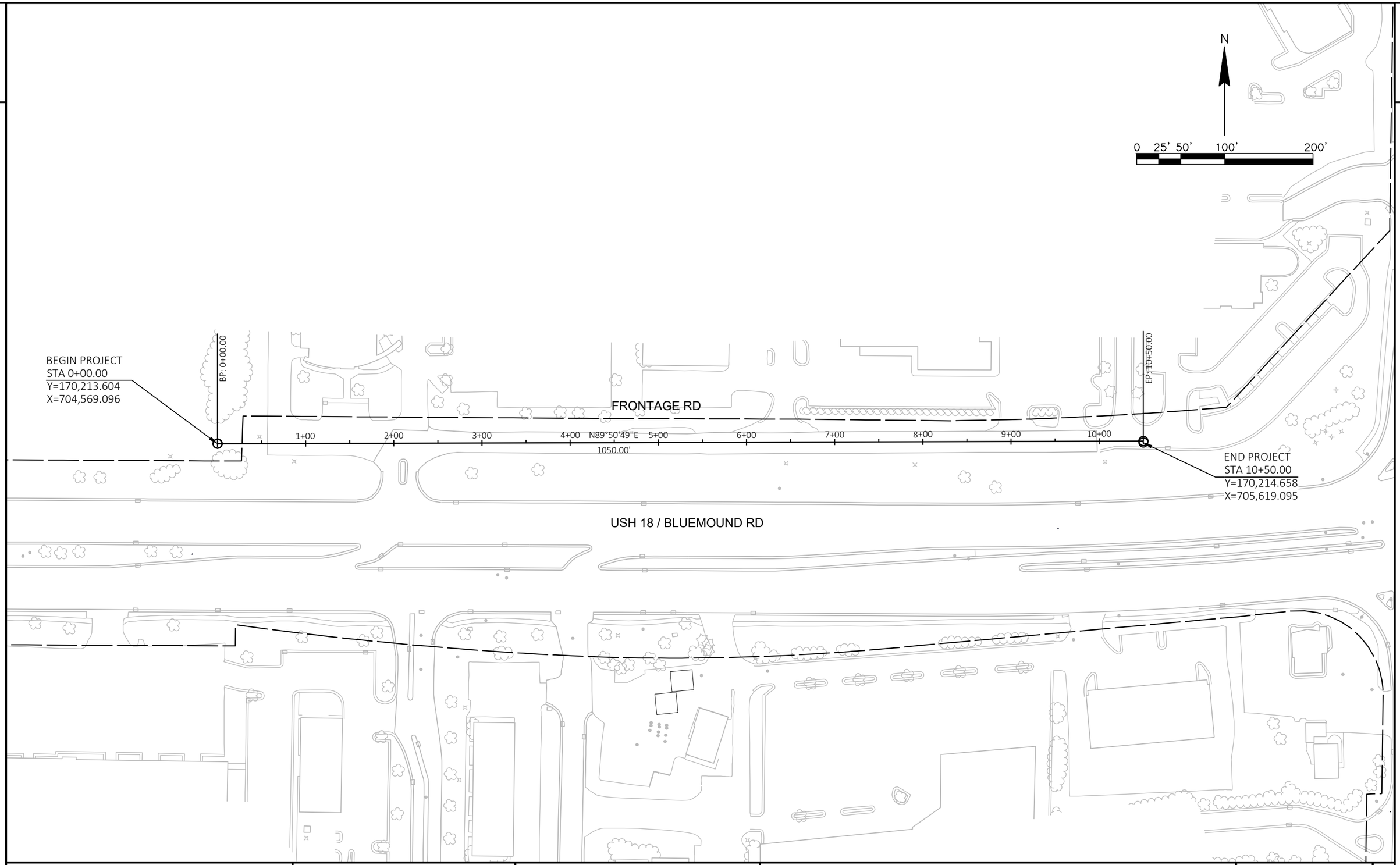
2

USH 18-RL																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L1	111+06.80	122+62.90	165514.58 688462.50	165873.26 689561.55						1156.10'						N71°55'32.2"E
C = 1					124+71.80	165938.08 689760.14	4°10'35"	1°00'00"	208.91'	417.63'	3.81'	5729.58'	122+62.90	126+80.53	N71°55'32.2"E	N76°06'06.9"E
L2	126+80.53	154+53.39	165988.26 689962.94	166654.29 692654.62						2772.86'						N76°06'06.9"E
C = 2					157+13.84	166716.84 692907.44	10°23'21"	2°00'00"	260.45'	519.46'	11.81'	2864.79'	154+53.39	159+72.85	N76°06'06.9"E	N86°29'28.2"E
L3	159+72.85	168+84.11	166732.78 693167.40	166788.55 694076.95						911.25'						N86°29'28.2"E
C = 3					176+01.47	166832.46 694792.97	28°06'59"	2°00'00"	717.37'	1405.83'	88.45'	2864.79'	168+84.11	182+89.93	N86°29'28.2"E	N58°22'28.7"E
L4	182+89.93	198+31.89	167208.62 695403.80	168017.16 696716.77						1541.96'						N58°22'28.7"E
L5	198+31.89	217+35.89	168017.16 696716.77	169010.20 698341.30						1904.00'						N58°33'49.1"E
L6	217+35.89	234+69.10	169010.20 698341.30	169940.13 699803.91						1733.21'						N57°33'05.5"E
C = 4					237+86.09	170110.21 700071.41	32°45'04"	5°18'41"	316.99'	616.63'	45.61'	1078.74'	234+69.10	240+85.72	N57°33'05.5"E	S89°41'50.2"E
L7	240+85.72	290+97.95	170108.54 700388.40	170082.06 705400.56						5012.23'						S89°41'50.2"E
C = 5					292+81.90	170081.08 705584.50	5°30'51"	1°30'00"	183.94'	367.60'	4.43'	3819.72'	290+97.95	294+65.56	S89°41'50.2"E	N84°47'19.2"E
L8	294+65.56	319+64.42	170097.79 705767.68	170324.76 708256.22						2498.86'						N84°47'19.2"E
C = 6					323+24.14	170357.44 708614.45	10°45'35"	1°30'00"	359.72'	717.32'	16.90'	3819.72'	319+64.42	326+81.74	N84°47'19.2"E	S84°27'05.3"E
L9	326+81.74	342+09.49	170322.65 708972.48	170174.94 710493.08						1527.75'						S84°27'05.3"E
C = 7					345+95.25	170137.64 710877.03	22°50'19"	3°00'00"	385.76'	761.28'	38.57'	1909.86'	342+09.49	349+70.77	S84°27'05.3"E	N72°42'36.1"E
L10	349+70.77	356+09.04	170252.29 711245.36	170441.99 711854.78						638.26'						N72°42'36.1"E
C = 8					360+79.38	170581.78 712303.88	27°40'13"	3°00'00"	470.35'	922.34'	57.06'	1909.86'	356+09.04	365+31.38	N72°42'36.1"E	S79°37'11.0"E
L11	365+31.38	379+22.81	170497.03 712766.53	170246.32 714135.19						1391.44'						S79°37'11.0"E
C = 9					381+90.85	170198.03 714398.84	6°41'36"	1°15'00"	268.04'	535.47'	7.83'	4583.66'	379+22.81	384+58.28	S79°37'11.0"E	S86°18'47.0"E
L12	384+58.28	398+04.49	170180.79 714666.32	170094.22 716009.75						1346.21'						S86°18'47.0"E
C = 10					399+61.51	170084.12 716166.45	3°08'23"	1°00'00"	157.02'	313.97'	2.15'	5729.58'	398+04.49	401+18.46	S86°18'47.0"E	S89°27'09.9"E
L13	401+18.46	416+31.61	170082.62 716323.46	170068.17 717836.55						1513.15'						S89°27'09.9"E
C = 11					419+73.08	170064.91 718178.00	13°35'41"	2°00'00"	341.47'	679.74'	20.28'	2864.79'	416+31.61	423+11.35	S89°27'09.9"E	N76°57'09.1"E
L14	423+11.35	431+13.07	170142.00 718510.66	170323.00 719291.69						801.73'						N76°57'09.1"E
C = 12					435+05.91	170411.68 719674.38	19°27'10"	2°30'00"	392.83'	778.11'	33.42'	2291.83'	431+13.07	438+91.18	N76°57'09.1"E	S83°35'41.4"E
L15	438+91.18	446+91.56	170367.86 720064.76	170278.57 720860.15						800.39'						S83°35'41.4"E
L16	446+91.56	459+15.90	170278.57 720860.15	170148.15 722077.52						1224.33'						S83°53'07.3"E
L17	459+15.90	463+90.12	170148.15 722077.52	170081.53 722547.04						474.22'						S81°55'26.4"E
C = 13					466+58.60	170043.82 722812.85	8°02'28"	1°30'00"	268.48'	536.07'	9.42'	3819.72'	463+90.12	469+26.19	S81°55'26.4"E	S89°57'54.4"E
L18	469+26.19	482+97.46	170043.65 723081.33	170042.82 724452.60						1371.27'						S89°57'54.4"E
C = 14					485+62.30	170042.66 724717.43	5°17'35"	1°00'00"	264.83'	529.29'	6.12'	5729.58'	482+97.46	488+26.76	S89°57'54.4"E	N84°44'31.1"E
L19	488+26.76	511+03.50	170066.92 724981.15	170275.57 727248.32						2276.74'						N84°44'31.1"E
L20	511+03.50	511+64.22	170275.57 727248.32	170280.71 727308.82						60.72'						N85°08'16.5"E
C = 15					513+42.28	170295.81 727486.24	10°39'10"	3°00'00"	178.06'	355.09'	8.28'	1909.86'	511+64.22	515+19.31	N85°08'16.5"E	S84°12'33.5"E
L21	515+19.31	522+58.65	170277.84 727663.39	170203.25 728398.95						739.33'						S84°12'33.5"E

CALHOUN																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L22	32+51.43	50+00.00	168500.95 711202.07	170249.20 711235.45						1748.57'						N1°05'37.8"E
L23	50+00.00	59+15.51	170249.20 711235.45	171164.54 711252.92						915.51'						N1°05'36.3"E

MOORLAND																
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	PI (STA)	PI (Y,X)	DELTA	DEGREE	TANGENT	LENGTH	EXTERNAL	RADIUS	PC (STA)	PT (STA)	BEARING BACK	BEARING AHEAD
L24	32+90.85	50+00.00	168370.69 716608.90	170079.66 716633.69						1709.15'						N0°49'51.8"E
L25	50+00.00	59+37.46	170079.66 716633.69	171017.02 716647.28						937.46'						N0°49'50.3"E

2



PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	ALIGNMENT DETAILS	SHEET 492	E

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027201-ad

PLOT DATE : 1/30/2023 9:38 AM PLOT BY : DECENT, ZACH PLOT NAME : PLOT SCALE : 1 IN:100 FT

Estimate Of Quantities

2200-20-70

Line	Item	Item Description	Unit	Total	Qty
0002	201.0120	Clearing	ID	70.000	70.000
0004	201.0220	Grubbing	ID	70.000	70.000
0006	204.0100	Removing Concrete Pavement	SY	14.000	14.000
0008	204.0115	Removing Asphaltic Surface Butt Joints	SY	494.000	494.000
0010	204.0120	Removing Asphaltic Surface Milling	SY	371,181.000	371,181.000
0012	204.0150	Removing Curb & Gutter	LF	5,773.000	5,773.000
0014	204.0155	Removing Concrete Sidewalk	SY	3,112.000	3,112.000
0016	204.0195	Removing Concrete Bases	EACH	23.000	23.000
0018	204.9060.S	Removing (item description) 01. Removing Traffic Signals, USH 18 & UPS Driveway	EACH	1.000	1.000
0020	204.9060.S	Removing (item description) 02. Removing Traffic Signals, USH 18 & Underwood Crossing Pkwy	EACH	1.000	1.000
0022	204.9060.S	Removing (item description) 03. Removing Traffic Signals, USH 18 & Executive Dr	EACH	1.000	1.000
0024	204.9060.S	Removing (item description) 04. Removing Traffic Signals, USH 18 & Woelfel Rd	EACH	1.000	1.000
0026	204.9060.S	Removing (item description) 05. Removing Traffic Signals, USH 18 & Janacek Rd	EACH	1.000	1.000
0028	204.9060.S	Removing (item description) 06. Removing Loop Detector Wire & Lead-in Cable, USH 18 & UPS Driveway	EACH	1.000	1.000
0030	205.0100	Excavation Common	CY	1,225.000	1,225.000
0032	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	70.000	70.000
0034	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 2200-20-70	EACH	1.000	1.000
0036	213.0100	Finishing Roadway (project) 01. 2200-20-70	EACH	1.000	1.000
0038	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	3,089.000	3,089.000
0040	311.0110	Breaker Run	TON	468.000	468.000
0042	325.0100	Pulverize and Relay	SY	3,122.000	3,122.000
0044	390.0303	Base Patching Concrete	SY	4,999.000	4,999.000
0046	390.0403	Base Patching Concrete Shes	SY	2,721.000	2,721.000
0048	416.0610	Drilled Tie Bars	EACH	4,068.000	4,068.000
0050	416.0620	Drilled Dowel Bars	EACH	1,535.000	1,535.000
0052	450.4000	HMA Cold Weather Paving	TON	5,736.000	5,736.000
0054	455.0605	Tack Coat	GAL	50,376.000	50,376.000
0056	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	4.000	4.000
0058	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	4.000	4.000
0060	460.2005	Incentive Density PWL HMA Pavement	DOL	85,955.000	85,955.000
0062	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	28,250.000	28,250.000
0064	460.2010	Incentive Air Voids HMA Pavement	DOL	85,955.000	85,955.000
0066	460.5223	HMA Pavement 3 LT 58-28 S	TON	393.000	393.000
0068	460.5224	HMA Pavement 4 LT 58-28 S	TON	306.000	306.000
0070	460.6223	HMA Pavement 3 MT 58-28 S	TON	47,595.000	47,595.000
0072	460.6224	HMA Pavement 4 MT 58-28 S	TON	38,360.000	38,360.000
0074	465.0105	Asphaltic Surface	TON	22.000	22.000
0076	465.0110	Asphaltic Surface Patching	TON	20.000	20.000
0078	465.0125	Asphaltic Surface Temporary	TON	100.000	100.000
0080	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	4,301.000	4,301.000
0082	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	204.000	204.000
0084	601.0413	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type G	LF	2,011.000	2,011.000
0086	601.0600	Concrete Curb Pedestrian	LF	660.000	660.000
0088	602.0410	Concrete Sidewalk 5-Inch	SF	33,027.000	33,027.000
0090	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	1,930.000	1,930.000
0092	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	1,066.000	1,066.000
0094	611.0430	Reconstructing Inlets	EACH	17.000	17.000

2200-20-70

Line	Item	Item Description	Unit	Total	Qty
0096	611.0624	Inlet Covers Type H	EACH	3.000	3.000
0098	611.0630	Inlet Covers Type HM-GJ	EACH	2.000	2.000
0100	611.8110	Adjusting Manhole Covers	EACH	6.000	6.000
0102	611.8115	Adjusting Inlet Covers	EACH	52.000	52.000
0104	611.8120.S	Cover Plates Temporary	EACH	10.000	10.000
0106	619.1000	Mobilization	EACH	1.000	1.000
0108	624.0100	Water	MGAL	53.000	53.000
0110	625.0100	Topsoil	SY	2,309.000	2,309.000
0112	625.0500	Salvaged Topsoil	SY	794.000	794.000
0114	628.1504	Silt Fence	LF	346.000	346.000
0116	628.2006	Erosion Mat Urban Class I Type A	SY	1,266.000	1,266.000
0118	628.7010	Inlet Protection Type B	EACH	105.000	105.000
0120	628.7015	Inlet Protection Type C	EACH	404.000	404.000
0122	628.7020	Inlet Protection Type D	EACH	27.000	27.000
0124	629.0205	Fertilizer Type A	CWT	1.000	1.000
0126	629.0210	Fertilizer Type B	CWT	121.000	121.000
0128	630.0140	Seeding Mixture No. 40	LB	29.000	29.000
0130	630.0500	Seed Water	MGAL	22.000	22.000
0132	631.1000	Sod Lawn	SY	1,515.000	1,515.000
0134	633.0200	Delineators Flexible	EACH	5.000	5.000
0136	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	34.000	34.000
0138	637.1220	Signs Type I Reflective SH	SF	40.000	40.000
0140	637.2210	Signs Type II Reflective H	SF	168.000	168.000
0142	638.2102	Moving Signs Type II	EACH	57.000	57.000
0144	638.2601	Removing Signs Type I	EACH	1.000	1.000
0146	643.0300	Traffic Control Drums	DAY	120,225.000	120,225.000
0148	643.0420	Traffic Control Barricades Type III	DAY	22,205.000	22,205.000
0150	643.0705	Traffic Control Warning Lights Type A	DAY	15,464.000	15,464.000
0152	643.0715	Traffic Control Warning Lights Type C	DAY	13,460.000	13,460.000
0154	643.0800	Traffic Control Arrow Boards	DAY	1,508.000	1,508.000
0156	643.0900	Traffic Control Signs	DAY	18,032.000	18,032.000
0158	643.0920	Traffic Control Covering Signs Type II	EACH	20.000	20.000
0160	643.1050	Traffic Control Signs PCMS	DAY	612.000	612.000
0162	643.1070	Traffic Control Cones 42-Inch	DAY	437,126.000	437,126.000
0164	643.3105	Temporary Marking Line Paint 4-Inch	LF	174,384.000	174,384.000
0166	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	26,627.000	26,627.000
0168	643.3205	Temporary Marking Line Paint 8-Inch	LF	13,081.000	13,081.000
0170	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	984.000	984.000
0172	643.5000	Traffic Control	EACH	1.000	1.000
0174	644.1410	Temporary Pedestrian Surface Asphalt	SF	10,000.000	10,000.000
0176	644.1430	Temporary Pedestrian Surface Plate	SF	10,000.000	10,000.000
0178	644.1440	Temporary Pedestrian Surface Matting	SF	1,000.000	1,000.000
0180	644.1601	Temporary Pedestrian Curb Ramp	DAY	2,000.000	2,000.000
0182	644.1605	Temporary Pedestrian Detectable Warning Field	SF	1,900.000	1,900.000
0184	644.1810	Temporary Pedestrian Barricade	LF	3,600.000	3,600.000
0186	646.1020	Marking Line Epoxy 4-Inch	LF	88,367.000	88,367.000
0188	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	38,802.000	38,802.000
0190	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	62,100.000	62,100.000
0192	646.5020	Marking Arrow Epoxy	EACH	340.000	340.000

2200-20-70

Line	Item	Item Description	Unit	Total	Qty
0194	646.5120	Marking Word Epoxy	EACH	131.000	131.000
0196	646.5220	Marking Symbol Epoxy	EACH	16.000	16.000
0198	646.6120	Marking Stop Line Epoxy 18-Inch	LF	3,152.000	3,152.000
0200	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	24.000	24.000
0202	646.6464	Cold Weather Marking Epoxy 4-Inch	LF	38,525.000	38,525.000
0204	646.7120	Marking Diagonal Epoxy 12-Inch	LF	9,833.000	9,833.000
0206	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	11,469.000	11,469.000
0208	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	528.000	528.000
0210	646.8120	Marking Curb Epoxy	LF	1,484.000	1,484.000
0212	646.8220	Marking Island Nose Epoxy	EACH	74.000	74.000
0214	646.9000	Marking Removal Line 4-Inch	LF	500.000	500.000
0216	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	2,112.000	2,112.000
0218	646.9100	Marking Removal Line 8-Inch	LF	2,131.000	2,131.000
0220	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	665.000	665.000
0222	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	7,981.000	7,981.000
0224	650.8000	Construction Staking Resurfacing Reference	LF	29,207.000	29,207.000
0226	650.8501	Construction Staking Electrical Installations (project) 01. 2200-20-70	EACH	1.000	1.000
0228	650.9000	Construction Staking Curb Ramps	EACH	129.000	129.000
0230	650.9911	Construction Staking Supplemental Control (project) 01. 2200-20-70	EACH	1.000	1.000
0232	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	3,495.000	3,495.000
0234	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	64.000	64.000
0236	652.0605	Conduit Special 2-Inch	LF	295.000	295.000
0238	652.0615	Conduit Special 3-Inch	LF	101.000	101.000
0240	652.0800	Conduit Loop Detector	LF	28,088.000	28,088.000
0242	653.0135	Pull Boxes Steel 24x36-Inch	EACH	30.000	30.000
0244	653.0140	Pull Boxes Steel 24x42-Inch	EACH	4.000	4.000
0246	653.0900	Adjusting Pull Boxes	EACH	2.000	2.000
0248	653.0905	Removing Pull Boxes	EACH	4.000	4.000
0250	654.0101	Concrete Bases Type 1	EACH	19.000	19.000
0252	654.0102	Concrete Bases Type 2	EACH	1.000	1.000
0254	654.0120	Concrete Bases Type 10-Special	EACH	1.000	1.000
0256	655.0210	Cable Traffic Signal 3-14 AWG	LF	1,268.000	1,268.000
0258	655.0230	Cable Traffic Signal 5-14 AWG	LF	826.000	826.000
0260	655.0240	Cable Traffic Signal 7-14 AWG	LF	3,307.000	3,307.000
0262	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,951.000	1,951.000
0264	655.0270	Cable Traffic Signal 15-14 AWG	LF	780.000	780.000
0266	655.0320	Cable Type UF 2-10 AWG Grounded	LF	355.000	355.000
0268	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	3,853.000	3,853.000
0270	655.0610	Electrical Wire Lighting 12 AWG	LF	117.000	117.000
0272	655.0700	Loop Detector Lead In Cable	LF	96,319.000	96,319.000
0274	655.0800	Loop Detector Wire	LF	62,544.000	62,544.000
0276	655.0900	Traffic Signal EVP Detector Cable	LF	1,268.000	1,268.000
0278	657.0100	Pedestal Bases	EACH	15.000	15.000
0280	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	1.000	1.000
0282	657.0310	Poles Type 3	EACH	1.000	1.000
0284	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	3.000	3.000
0286	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	9.000	9.000
0288	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	3.000	3.000
0290	657.0609	Luminaire Arms Single Member 4-Inch Clamp 6-FT	EACH	1.000	1.000

2200-20-70

Line	Item	Item Description	Unit	Total	Qty
0292	658.0173	Traffic Signal Face 3S 12-Inch	EACH	16.000	16.000
0294	658.0174	Traffic Signal Face 4S 12-Inch	EACH	13.000	13.000
0296	658.0416	Pedestrian Signal Face 16-Inch	EACH	15.000	15.000
0298	658.0500	Pedestrian Push Buttons	EACH	12.000	12.000
0300	658.5070	Signal Mounting Hardware (location) 01. Signal Mounting Hardware, USH 18 & UPS Driveway	EACH	1.000	1.000
0302	658.5070	Signal Mounting Hardware (location) 02. Signal Mounting Hardware, USH 18 & Underwood Crossing Pkwy	EACH	1.000	1.000
0304	658.5070	Signal Mounting Hardware (location) 03. Signal Mounting Hardware, USH 18 & Executive Dr	EACH	1.000	1.000
0306	658.5070	Signal Mounting Hardware (location) 04. Signal Mounting Hardware, USH 18 & Woelfel Rd	EACH	1.000	1.000
0308	658.5070	Signal Mounting Hardware (location) 05. Signal Mounting Hardware, USH 18 & Janacek Rd	EACH	1.000	1.000
0310	659.1125	Luminaires Utility LED C	EACH	1.000	1.000
0312	659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH	43.000	43.000
0314	661.0201	Temporary Traffic Signals for Intersections (location) 01. Temporary Traffic Signals for Intersections, USH 18 & UPS Driveway	EACH	1.000	1.000
0316	661.0201	Temporary Traffic Signals for Intersections (location) 02. Temporary Traffic Signals for Intersections, USH 18 & Underwood Crossing Pkw	EACH	1.000	1.000
0318	661.0300	Generators	DAY	2.000	2.000
0320	690.0150	Sawing Asphalt	LF	7,021.000	7,021.000
0322	690.0250	Sawing Concrete	LF	12,776.000	12,776.000
0324	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	9,000.000	9,000.000
0326	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	21,000.000	21,000.000
0328	SPV.0060	Special 01. Install Poles Type 9 Special	EACH	2.000	2.000
0330	SPV.0060	Special 02. Install Poles Type 12	EACH	1.000	1.000
0332	SPV.0060	Special 03. Install Monotube Arms 35-ft type 9/10 Special Pole	EACH	1.000	1.000
0334	SPV.0060	Special 04. Install Monotube Arms 40-ft Type 9/10 Special Pole	EACH	1.000	1.000
0336	SPV.0060	Special 05. Install Monotube Arms 50-ft	EACH	1.000	1.000
0338	SPV.0060	Special 06. Temporary EVP System, USH 18 & UPS Driveway	EACH	1.000	1.000
0340	SPV.0060	Special 07. Temporary EVP System, USH 18 & Underwood Crossing Pkwy	EACH	1.000	1.000
0342	SPV.0060	Special 08. Transport Traffic Signal & Intersection Lighting Materials, USH 18 & UPS Dri	EACH	1.000	1.000
0344	SPV.0060	Special 09. Transport Traffic Signal & Intersection Lighting Materials, USH 18 & Underwo	EACH	1.000	1.000
0346	SPV.0060	Special 10. Remove, Salvage, and Reinstall EVP Detector Heads, USH 18 & UPS Driveway	EACH	1.000	1.000
0348	SPV.0060	Special 11. Remove, Salvage, and Reinstall EVP Detector Heads, USH 18 & Underwood Crossi	EACH	1.000	1.000
0350	SPV.0060	Special 12. Install State-Furnished Video Detection System, USH 18 & Poplar Creek Pkwy	EACH	1.000	1.000
0352	SPV.0060	Special 13. Remove & Salvage Video Detection Equipment, USH 18 & UPS Driveway	EACH	1.000	1.000
0354	SPV.0060	Special 14. Remove & Salvage Video Detection Equipment, USH 18 & Elm Grove Rd	EACH	1.000	1.000
0356	SPV.0060	Special 15. Remove & Salvage Video Detection Equipment, USH 18 & Sunny Slope Rd	EACH	1.000	1.000
0358	SPV.0060	Special 16. Remove & Salvage Video Detection Equipment, USH 18 & Main St	EACH	1.000	1.000
0360	SPV.0060	Special 17. Remove & Salvage Video Detection Equipment, USH 18 & Executive Dr	EACH	1.000	1.000
0362	SPV.0060	Special 18. Remove & Salvage Video Detection Equipment, USH 18 & Thomas Ln	EACH	1.000	1.000
0364	SPV.0060	Special 19. Remove & Salvage Video Detection Equipment, USH 18 & Calhoun Rd	EACH	1.000	1.000
0366	SPV.0060	Special 20. Remove & Salvage Video Detection Equipment, USH 18 & Woelfel Rd	EACH	1.000	1.000
0368	SPV.0060	Special 21. Remove & Salvage Video Detection Equipment, USH 18 & Brookfield Rd	EACH	1.000	1.000
0370	SPV.0060	Special 22. Remove & Salvage Video Detection Equipment, USH 18 & Janacek Rd	EACH	1.000	1.000

2200-20-70

Line	Item	Item Description	Unit	Total	Qty
0372	SPV.0060	Special 23. Remove & Salvage Video Detection Equipment, USH 18 & Poplar Creek Pkwy	EACH	1.000	1.000
0374	SPV.0060	Special 24. Remove & Salvage Video Detection Equipment, USH 18 & Barker Rd	EACH	1.000	1.000
0376	SPV.0060	Special 25. Remove & Salvage Video Detection Equipment, USH 18 & I-94 Westbound On-Ramp	EACH	1.000	1.000
0378	SPV.0060	Special 26. Remove & Salvage Radar Detection Equipment, USH 18 & Underwood Crossing Pkwy	EACH	1.000	1.000
0380	SPV.0060	Special 27. Remove & Salvage Radar Detection Equipment, USH 18 & Pilgrim Pkwy	EACH	1.000	1.000
0382	SPV.0060	Special 28. Removing, Salvaging, & Installing Traffic Signal Equipment, USH 18 & UPS Dri	EACH	1.000	1.000
0384	SPV.0060	Special 29. Removing, Salvaging, & Installing Traffic Signal Equipment, USH 18 & Underwo	EACH	1.000	1.000
0386	SPV.0060	Special 30. Removing, Salvaging, & Installing Traffic Signal Equipment, USH 18 & Elm Gro	EACH	1.000	1.000
0388	SPV.0060	Special 31. Removing, Salvaging, & Installing Traffic Signal Equipment, USH 18 & Sunny S	EACH	1.000	1.000
0390	SPV.0060	Special 32. Removing, Salvaging, & Installing Traffic Signal Equipment, USH 18 & Executi	EACH	1.000	1.000
0392	SPV.0060	Special 33. Type 10 Special Base Spread Footing Substitution	EACH	1.000	1.000
0394	SPV.0060	Special 34. Type 13 Base Spread Footing Substitution	EACH	1.000	1.000
0396	SPV.0060	Special 35. Clean Storm Sewer Structure	EACH	8.000	8.000
0398	SPV.0060	Special 36. Tuck Point Storm Sewer Structure	EACH	62.000	62.000
0400	SPV.0060	Special 37. Replace Water Valve Box	EACH	6.000	6.000
0402	SPV.0060	Special 38. Adjust Water Valve Box	EACH	8.000	8.000
0404	SPV.0060	Special 39. Adjust Sanitary Sewer Manhole	EACH	2.000	2.000
0406	SPV.0060	Special 40. Sanitary Manhole Seal	EACH	1.000	1.000
0408	SPV.0060	Special 41. Temporary Bus Stop	EACH	10.000	10.000
0410	SPV.0060	Special 42. Field Facilities Office Space	EACH	1.000	1.000
0412	SPV.0090	Special 01. Concrete Joint and Crack Cleaning and Repair	LF	10,000.000	10,000.000
0414	SPV.0195	Special 01. Asphaltic Repair	TON	85.000	85.000

204-REMOVING ITEMS

LOCATION	STATION	TO	STATION		201.0120 CLEARING ID	201.0220 GRUBBING ID	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	* 205.0100 EXCAVATION COMMON CY
USH 18 EAST BOUND											
	228+87	-	269+60		---	---	53	30,869	324	123	38
	269+60	-	296+17		---	---	12	17,091	334	102	60
	296+17	-	322+95		---	---	15	17,269	234	98	40
	322+95	-	349+49		---	---	20	21,548	258	125	44
	349+49	-	391+00		---	---	34	33,602	398	228	77
	391+00	-	416+91		---	---	33	20,887	388	254	85
	416+91	-	471+60		---	---	41	29,052	682	434	103
	471+60	-	495+80		---	---	41	12,893	251	187	72
	495+80	-	511+34		10	10	9	7,765	103	93	8
USH 18 WEST BOUND											
	228+87	-	269+60		---	---	52	26,403	362	155	52
	269+60	-	296+17		---	---	11	17,236	243	126	54
	296+17	-	322+95		---	---	31	19,214	372	223	75
	322+95	-	349+49		---	---	21	17,758	177	94	33
	349+49	-	391+00		42	42	35	28,974	614	315	99
	391+00	-	416+91		---	---	18	20,312	159	39	26
	416+91	-	471+60		---	---	23	30,289	517	308	91
	471+60	-	495+80		---	---	31	12,190	171	132	46
	495+80	-	511+34		18	18	14	7,829	171	76	17
				TOTAL 0010	70	70	494	371,181	5,758	3,112	1,020
				PROJECT TOTAL	70	70	494	371,181	5,758	3,112	1,020

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

205 EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

LOCATION	205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL TON
USH 18	70
TOTAL 0010	70

305-BASE AGGREGATE DENSE

LOCATION	STATION	TO	STATION	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON EB	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON WB	624.0100 WATER MGAL
USH 18						
	228+87	-	233+50	---	---	---
	233+50	-	240+50	5	30	1
	240+50	-	247+50	55	50	2
	247+50	-	254+50	20	15	1
	254+50	-	261+50	5	15	1
	261+50	-	268+50	5	15	1
	268+50	-	275+50	55	55	2
	275+50	-	282+50	10	20	1
	282+50	-	289+50	30	20	1
	289+50	-	296+50	40	25	1
	296+50	-	303+50	20	35	1
	303+50	-	310+50	5	45	1
	310+50	-	317+50	20	40	1
	317+50	-	324+50	45	45	2
	324+50	-	331+50	15	5	1
	331+50	-	338+50	20	20	1
	338+50	-	345+50	20	20	1
	345+50	-	352+50	50	35	2
	352+50	-	359+50	20	30	1
	359+50	-	366+50	25	50	2
	366+50	-	373+50	25	25	1
	373+50	-	380+50	---	25	1
	380+50	-	387+50	55	40	2
	387+50	-	394+50	45	50	2
	394+50	-	401+50	30	5	1
	401+50	-	408+50	30	25	1
	408+50	-	415+50	70	5	2
	415+50	-	422+50	55	30	2
	422+50	-	429+50	55	5	1
	429+50	-	436+50	50	50	2
	436+50	-	443+50	50	65	2
	443+50	-	450+50	20	---	1
	450+50	-	457+50	10	15	1
	457+50	-	464+50	20	30	1
	464+50	-	471+50	25	35	1
	471+50	-	478+50	40	30	2
	478+50	-	485+50	40	25	1
	485+50	-	492+50	20	5	1
	492+50	-	499+50	55	45	2
	499+50	-	506+50	5	10	1
	506+50	-	511+34	15	30	1
UNDISTRIBUTED		-		295	280	53
			TOTAL 0010	2,875		53

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

416-DRILLED TIE AND DOWEL BARS

LOCATION	STATION	TO	STATION	416.0610 DRILLED TIE BARS EACH EB	416.0610 DRILLED TIE BARS EACH WB	416.0620 DRILLED DOWEL BARS EACH EB	416.0620 DRILLED DOWEL BARS EACH WB
USH 18							
	228+87	-	233+50				
	233+50	-	240+50	3			
	240+50	-	247+50	97	74	18	18
	247+50	-	254+50	22	11	18	
	254+50	-	261+50	20	17	36	
	261+50	-	268+50	6	21		
	268+50	-	275+50	77	89		
	275+50	-	282+50	20	33		36
	282+50	-	289+50	41	22	18	
	289+50	-	296+50	63	48	18	36
	296+50	-	303+50	28	43		18
	303+50	-	310+50	4	50		18
	310+50	-	317+50	30	44		
	317+50	-	324+50	52	51		
	324+50	-	331+50	17	7		
	331+50	-	338+50	21	28		18
	338+50	-	345+50	30	30	18	
	345+50	-	352+50	70	60		
	352+50	-	359+50	24	90	18	36
	359+50	-	366+50	33	72		18
	366+50	-	373+50	20	43		
	373+50	-	380+50		43		
	380+50	-	387+50	83	42		18
	387+50	-	394+50	83	62	18	45
	394+50	-	401+50	37	7		18
	401+50	-	408+50	48	39		
	408+50	-	415+50	116	17	54	18
	415+50	-	422+50	109	53	54	
	422+50	-	429+50	109	7	90	18
	429+50	-	436+50	103	87		
	436+50	-	443+50	89	115		
	443+50	-	450+50	44	8	18	36
	450+50	-	457+50	44	42	108	36
	457+50	-	464+50	52	48	54	108
	464+50	-	471+50	70	83	18	18
	471+50	-	478+50	43	42	36	36
	478+50	-	485+50	70	48	45	45
	485+50	-	492+50	44	8		
	492+50	-	499+50	105	70	36	
	499+50	-	506+50	11	35	18	72
	506+50	-	511+34	11	60		36
UNDISTRIBUTED		-		195	175	70	70
			TOTAL 001	4,068		1,535	

3

HMA PWL INCENTIVE DENSITY ELIGIBILITY TABLE

LOCATION	STATION	TO	STATION	PWL DENSITY INCENTIVE TON[1]	PWL AIR VOIDS TON[2]	LF OF CENTERLINE LF[3]
USH 18 EAST BOUND						
	228+87	-	269+60	7,180	7,180	4,073
	269+60	-	296+17	3,960	3,960	2,657
	296+17	-	322+95	4,005	4,005	2,678
	322+95	-	349+49	5,015	5,015	2,654
	349+49	-	391+00	7,830	7,830	4,151
	391+00	-	416+91	4,865	4,865	2,591
	416+91	-	471+60	6,705	6,705	5,469
	471+60	-	495+80	2,980	2,980	2,420
	495+80	-	511+34	1,795	1,795	1,554
USH 18 WEST BOUND						
	228+87	-	269+60	6,120	6,120	4,073
	269+60	-	296+17	3,990	3,990	2,657
	296+17	-	322+95	4,470	4,470	2,678
	322+95	-	349+49	4,120	4,120	2,654
	349+49	-	391+00	6,730	6,730	4,151
	391+00	-	416+91	4,725	4,725	2,591
	416+91	-	471+60	6,845	6,845	5,469
	471+60	-	495+80	2,810	2,810	2,420
	495+80	-	511+34	1,810	1,810	1,554
PROJECT TOTAL				85,955	85,955	56,494

[1] TONNAGE IS ELIGIBLE FOR INCENTIVE DENSITY PWL 460.2005 .

[2] TONNAGE IS ELIGIBLE FOR INCENTIVE AIR VOIDS 460.2010.

[3] LF IS ELIGIBLE FOR INCENTIVE DENSITY HMA PAVEMENT LONGITUDINAL JOINTS ITEM 460.2007.
ACTUAL QUANTITIES ELIGIBLE FOR INCENTIVES WILL BE DETERMINED BY THE ENGINEER.

460-HMA ITEMS

LOCATION	STATION	TO	STATION	LOCATION	450.4000 HMA COLD WEATHER PAVING TON	* 455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	SPV.0090.01 CONCRETE JOINT AND CRACK CLEANING AND REPAIR LF	SPV.0195.01 ASPHALTIC REPAIR TON
USH 18 EAST BOUND													
	228+87	-	269+60		---	4,210	3,990	3,190	---	---	---	---	10
	269+60	-	296+17		---	2,315	2,195	1,765	---	---	---	---	5
	296+17	-	322+95		---	2,340	2,220	1,785	---	---	---	---	5
	322+95	-	349+49		---	2,945	2,790	2,225	5	---	---	---	5
	349+49	-	391+00		---	4,600	4,360	3,470	0				5
	391+00	-	416+91		---	2,855	2,705	2,160	0	---	---	---	5
	416+91	-	471+60		1,676	3,905	3,705	3,000	0	---	---	---	---
	471+60	-	495+80		745	1,735	1,645	1,335	5	---	---	---	---
	495+80	-	511+34		449	1,045	990	805	---	---	---	---	---

USH 18 WEST BOUND													---
	228+87	-	269+60		---	3,580	3,390	2,730	---	---	---	---	10
	269+60	-	296+17		---	2,335	2,210	1,780	---	---	---	---	5
	296+17	-	322+95		---	2,620	2,485	1,985	---	---	---	---	5
	322+95	-	349+49		---	2,415	2,285	1,835	0	---	---	---	10
	349+49	-	391+00		---	3,945	3,735	2,995	10	---	---	---	20
	391+00	-	416+91		---	2,770	2,625	2,100	0	---	---	---	---
	416+91	-	471+60		1,711	3,920	3,715	3,130	2	---	---	---	---
	471+60	-	495+80		703	1,635	1,550	1,260	---	---	---	---	---
	495+80	-	511+34		453	1,050	1,000	810	---	---	---	---	---
UNDISTRIBUTED										20	100	10,000	
				TOTAL 0010	5,736	50,220	47,595	38,360	22	20	100	10,000	85

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

601-PEDESTRIAN CURB

STATION	TO	STATION	601.0600 CONCRETE CURB PEDESTRIAN LF EB	WB
USH 18				
247+50	-	254+50		20
289+50	-	296+50	27	
317+50	-	324+50	54	
345+50	-	352+50	22	
366+50	-	373+50		20
387+50	-	394+50		17
		UNDISTRIBUTED	500	
		TOTAL 0010	660	

633-DELINEATORS

STATION	LOCATION		633.0200 DELINEATORS FLEXIBLE EACH
230+56	1'RT		5
		TOTAL 0010	5

601-CONCRETE ITEMS

LOCATION	STATION	TO	STATION	390.0303 BASE PATCHING CONCRETE SY		390.0403 BASE PATCHING CONCRETE SHES SY		601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF		601.0413 CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE G LF		602.0410 CONCRETE SIDEWALK 5-INCH SF		602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF		602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	
USH 18				EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
	228+87	-	233+50	---	---	---	---	5	---	---	---	---	---	---	---	---	---
	233+50	-	240+50	---	---	---	---	15	25	---	---	---	761	---	---	---	---
	240+50	-	247+50	8	---	8	16	166	103	---	---	708	648	110	120	---	---
	247+50	-	254+50	7	---	8	---	62	44	---	---	316	222	20	10	---	---
	254+50	-	261+50	18	---	16	---	30	62	---	---	---	95	---	10	---	---
	261+50	-	268+50	---	---	---	---	25	63	---	---	---	104	---	10	---	---
	268+50	-	275+50	---	---	---	---	97	107	---	---	689	588	80	80	---	---
	275+50	-	282+50	---	---	---	16	60	77	---	---	---	231	---	20	---	---
	282+50	-	289+50	---	---	16	---	110	68	---	---	277	255	20	20	---	---
	289+50	-	296+50	11	56	---	---	93	37	---	---	424	309	70	40	---	---
	296+50	-	303+50	---	10	---	---	69	48	---	---	213	463	10	40	---	---
	303+50	-	310+50	---	8	---	---	13	139	---	---	---	581	---	30	---	14
	310+50	-	317+50	---	---	---	---	90	141	---	---	230	594	20	---	---	60
	317+50	-	324+50	---	---	---	---	53	52	---	---	625	610	80	80	---	---
	324+50	-	331+50	---	---	---	---	52	30	---	---	116	29	10	---	---	---
	331+50	-	338+50	---	8	---	---	81	79	---	---	189	311	10	20	---	---
	338+50	-	345+50	---	---	8	---	78	46	---	---	203	280	20	20	---	---
	345+50	-	352+50	---	---	---	---	90	71	---	---	591	480	70	80	---	---
	352+50	-	359+50	12	158	8	---	54	72	---	---	280	394	---	20	33	30
	359+50	-	366+50	---	14	---	---	56	142	---	---	215	526	40	50	---	---
	366+50	-	373+50	---	---	---	---	34	66	---	---	426	171	20	40	---	---
	373+50	-	380+50	---	---	---	---	---	75	---	---	62	389	---	---	---	37
	380+50	-	387+50	---	10	---	---	137	126	---	---	770	839	50	40	38	---
	387+50	-	394+50	11	11	8	8	110	133	---	---	737	818	50	20	---	14
	394+50	-	401+50	---	---	---	8	83	10	---	---	533	---	---	---	45	---
	401+50	-	408+50	---	---	---	---	47	45	10	---	154	156	30	10	---	---
	408+50	-	415+50	27	---	16	8	5	---	150	20	1,191	---	---	---	84	---
	415+50	-	422+50	27	---	24	---	22	18	129	70	873	359	---	---	80	41
	422+50	-	429+50	44	---	16	8	---	18	133	---	873	---	---	---	78	---
	429+50	-	436+50	---	---	---	---	32	26	138	115	677	728	---	---	79	70
	436+50	-	443+50	---	---	---	---	---	17	133	152	694	1,007	---	---	81	98
	443+50	-	450+50	8	18	---	8	---	---	60	---	297	---	---	---	41	---
	450+50	-	457+50	53	18	24	8	---	10	10	10	85	111	10	20	---	---
	457+50	-	464+50	30	28	16	17	10	20	---	---	118	190	40	30	---	12
	464+50	-	471+50	8	9	---	---	28	0	10	111	397	426	20	30	---	33
	471+50	-	478+50	8	16	8	---	56	---	10	51	712	499	50	10	---	21
	478+50	-	485+50	13	14	8	---	10	3	31	---	180	173	70	60	---	---
	485+50	-	492+50	---	---	---	---	10	6	62	10	287	---	---	---	24	---
	492+50	-	499+50	29	---	15	---	11	48	132	86	1,117	751	40	30	36	---
	499+50	-	506+50	9	10	---	24	20	10	5	35	---	---	---	---	---	---
	506+50	-	511+34	---	---	---	221	---	---	17	96	236	434	10	40	---	17
UNDISTRIBUTED				4,288		2,180		350		225		3,000		---		---	
			TOTAL 0010	4,999		2,721		4,301		2,011		33,027		1,930		1,066	

3

611-STORM SEWER ITEMS

LOCATION	NAME	STATION	OFFSET	* 611.0430 RECONSTRUCTING INLETS EACH	* 611.0624 INLET COVERS TYPE H EACH	* 611.8110 ADJUSTING MANHOLE COVERS EACH	* 611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	* SPV.0060.35 CLEAN STORM SEWER STRUCTURE EACH	* SPV.0060.36 TUCK POINT STORM SEWER STRUCTURE EACH
USH 18										
	2-1	236+50.4	73.7'RT	1	---	---	---	---	---	---
	3-1	244+97.0	12.6'LT	---	---	---	1	---	---	1
	3-2	244+97.3	5.9'LT	---	---	---	1	---	---	1
	4-1	249+99.4	74.4RT	---	---	---	---	---	---	1
	4-2	252+45.0	63.3'LT	---	1	---	---	---	---	---
	5-1	256+25.5	63.4'LT	---	---	---	---	---	---	1
	5-2	258+50.0	62.9'LT	---	---	---	---	---	---	1
	5-3	260+50.1	62.7'LT	---	---	---	---	---	---	1
	5-4	256+25.0	63.8'RT	1	---	---	---	---	---	---
	5-5	258+51.1	63.1'RT	---	---	---	---	---	---	1
	5-6	259+41.5	62.7'RT	---	---	---	1	---	---	---
	6-1	262+50.0	13.0'LT	---	---	---	1	---	---	1
	6-2	264+28.4	63.3'RT	---	---	---	---	---	---	1
	6-3	264+81.2	62.7'LT	---	---	---	---	---	---	1
	6-4	267+74.8	62.9'LT	---	---	---	---	---	---	1
	6-5	267+74.4	12.8'LT	1	---	---	---	---	---	---
	6-6	267+74.6	63.2'RT	---	---	---	---	---	---	1
	7-1	270+64.4	63.7'RT	1	1	---	---	---	---	---
	7-2	271+99.6	62.8'LT	1	---	---	---	---	---	---
	7-3	272+00.2	5.8'RT	---	---	---	---	---	---	1
	7-4	274+42.3	63.4'RT	---	---	---	---	---	---	1
	8-1	275+75.0	63.2'LT	---	---	---	---	---	---	1
	8-2	275+75.0	63.2'RT	---	---	---	---	---	---	1
	8-3	276+39.4	63.2'RT	---	---	---	1	---	---	---
	8-4	277+78.1	63.4'RT	1	---	---	---	---	---	---
	8-5	278+76.7	63.3'RT	1	---	---	---	---	---	---
	8-6	278+74.2	63.1'LT	---	---	---	---	---	---	1
	8-7	279+83.1	63.4'RT	1	---	---	---	---	---	---
	8-8	281+75.1	63.2'RT	---	---	---	---	---	---	1
	8-9	281+74.8	63.0'LT	---	---	---	---	---	---	1
	9-1	283+49.4	63.3'RT	---	---	---	---	---	---	1
	9-2	284+75.1	12.4'LT	---	---	---	1	---	---	---
	9-3	284+99.7	63.2'RT	---	---	---	---	---	---	1
	9-4	285+93.8	12.6'RT	---	---	---	1	---	---	---
	9-5	286+54.0	63.1'RT	---	---	---	---	---	---	1
	9-6	287+50.6	63.2'RT	---	---	---	---	---	---	1
	9-7	287+48.6	63.2'LT	---	---	---	---	---	---	1
	9-8	287+84.8	63.1'RT	---	1	---	---	---	---	---
	9-9	288+75.1	63.1'RT	1	---	---	---	---	---	---
	10-1	292+50.7	12.2'RT	---	---	---	---	---	---	1
				---	---	---	---	---	---	---
UNDISTRIBUTED				1	---	---	1	---	---	3
			SUBTOTAL 0010	10	3	0	8	0	0	28

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

611-STORM SEWER ITEMS

LOCATION	NAME	STATION	OFFSET	* 611.0430 RECONSTRUCTING INLETS EACH	* 611.0624 INLET COVERS TYPE H EACH	* 611.8110 ADJUSTING MANHOLE COVERS EACH	* 611.8115 ADJUSTING INLET COVERS EACH	* 611.8120.S COVER PLATES TEMPORARY EACH	* SPV.0060.35 CLEAN STORM SEWER STRUCTURE EACH	* SPV.0060.36 TUCK POINT STORM SEWER STRUCTURE EACH
USH 18										
	10-2	294+03.3	63.6'RT	---	---	---	---	---	---	1
	10-3	296+43.0	133.4'RT	---	---	---	1	---	---	---
	11-1	297+13.9	64.8'RT	---	---	---	---	---	---	1
	11-2	298+74.1	6.5'RT	1	---	---	---	---	---	---
	11-3	298+74.3	12.8'RT	---	---	---	1	---	---	---
	11-4	299+81.0	63.6'LT	---	---	---	1	---	---	---
	11-5	299+49.8	63.3'RT	---	---	---	---	---	---	1
	11-6	301+50.0	63.2'RT	---	---	---	---	---	---	1
	12-1	305+00.2	63.4'RT	---	---	---	---	---	---	1
	12-2	307+49.7	63.2'LT	---	---	---	---	---	---	1
	12-3	310+24.6	63.6'LT	---	---	---	1	---	---	---
	13-1	312+00.4	63.3'RT	---	---	---	---	---	---	1
	13-2	313+48.8	12.7'LT	---	---	---	1	---	---	---
	13-3	313+61.8	63.2'RT	1	---	---	---	---	---	---
	13-4	314+45.8	63.4'RT	---	---	---	---	---	---	1
	13-5	314+95.9	0.7'LT	---	---	---	1	---	---	---
	14-1	320+24.7	62.3'LT	---	---	---	1	---	---	---
	14-2	324+48.9	71.4'RT	---	---	---	1	---	---	---
	15-1	326+01.3	53.5'LT	---	---	---	1	---	---	---
	15-2	325+74.6	2.8'LT	---	---	---	1	---	---	1
	15-3	328+70.7	74.1'RT	---	---	---	---	---	---	1
	15-4	331+15.2	74.2'RT	---	---	---	---	---	---	1
	15-5	330+74.2	52.2'LT	---	---	---	---	---	---	1
	16-1	332+50.8	65.2'RT	---	---	1	---	1	---	---
	16-2	332+50.4	74.1'RT	---	---	---	---	---	---	1
	16-3	336+00.0	74.8'RT	1	---	---	---	---	---	---
	16-4	337+25.1	0.5RT	---	---	---	1	---	---	---
	17-1	340+00.1	74.8'RT	---	---	---	---	---	---	1
	17-2	341+48.9	76.4'RT	---	---	---	---	---	---	1
	17-3	342+50.0	10.3'LT	---	---	---	1	---	---	---
	18-1	350+53.2	77.0'RT	1	---	---	---	---	---	---
	18-2	352+14.9	70.7'RT	1	---	---	---	---	---	---
	18-3	352+14.2	67.2'RT	---	---	1	---	1	---	---
	18-4	352+49.0	70.6'RT	---	---	---	1	---	---	---
	19-1	354+24.8	70.2'LT	---	---	---	1	---	---	---
	20-1	360+74.6	17.4'LT	---	---	---	1	---	---	---
	20-2	361+00.3	65.1'RT	---	---	---	---	---	---	1
	20-3	363+98.7	14.2'LT	---	---	---	1	---	---	---
	20-4	364+59.3	64.5'LT	---	---	---	1	---	---	---
	21-1	367+24.0	13.1'LT	1	---	---	---	---	---	---
				---	---	---	---	---	---	---
UNDISTRIBUTED				---	---	---	2	---	---	2
			SUBTOTAL 0010	6	0	2	19	2	0	18

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

611-STORM SEWER ITEMS

LOCATION	NAME	STATION	OFFSET	* 611.0430 RECONSTRUCTING INLETS EACH	* 611.0624 INLET COVERS TYPE H EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	* 611.8110 ADJUSTING MANHOLE COVERS EACH	* 611.8115 ADJUSTING INLET COVERS EACH	* 611.8120.S COVER PLATES TEMPORARY EACH	* SPV.0060.35 CLEAN STORM SEWER STRUCTURE EACH	* SPV.0060.36 TUCK POINT STORM SEWER STRUCTURE EACH
USH 18											
	21-2	369+49.4	63.2'RT	---	---	---	---	---	---	---	---
	21-3	370+38.3	63.2'LT	---	---	---	---	1	---	---	---
	21-4	371+98.5	63.2'LT	---	---	---	---	1	---	1	---
	22-1	377+85.1	13.5'LT	---	---	---	---	---	---	---	1
	23-1	384+42.7	81.8'RT	---	---	---	---	---	---	1	---
	24-1	389+93.4	4.9'RT	---	---	---	---	---	---	---	1
	24-2	392+01.7	19.2'LT	---	---	---	1	---	1	---	---
	25-1	395+17.9	8.9'RT	---	---	---	---	1	---	---	1
	25-2	395+50.9	55.4'LT	---	---	---	---	---	---	---	1
	26-1	403+20.7	94.7'RT	---	---	---	---	1	---	---	---
	26-2	403+48.6	88.3'RT	---	---	---	1	---	1	---	---
	26-3	405+18.3	72.0'RT	---	---	---	1	---	1	---	---
	26-4	408+24.1	58.4'RT	---	---	---	---	1	---	---	---
	27-1	409+19.6	58.3'RT	---	---	---	---	1	---	---	---
	27-2	411+11.0	58.6'RT	---	---	1	---	---	---	---	1
	27-3	413+57.5	56.6'RT	---	---	---	---	1	---	---	---
	28-1	417+50.6	51.8'LT	---	---	---	---	1	---	---	---
	29-1	423+87.5	74.6'RT	---	---	---	---	---	---	---	1
	30-1	432+49.5	50.8'LT	---	---	---	---	1	---	---	---
	30-2	434+79.5	51.0'RT	---	---	---	---	1	---	---	---
	30-3	435+49.8	12.6'RT	---	---	---	---	1	---	---	---
	31-1	440+50.3	51.1'RT	---	---	---	---	---	---	---	1
	33-1	454+25.4	51.2'RT	---	---	---	---	1	---	---	---
	33-2	454+24.1	13.1'LT	---	---	---	---	---	---	---	1
	33-3	454+24.2	51.1'LT	---	---	---	---	---	---	---	1
	34-1	460+50.4	12.7'RT	---	---	---	---	---	---	---	1
	34-2	460+55.6	51.1'LT	---	---	---	---	---	---	1	---
	35-1	466+59.9	51.2'LT	1	---	---	---	---	---	---	---
	36-1	473+99.8	6.6'RT	---	---	1	---	---	---	---	1
	36-2	477+25.7	51.5'RT	---	---	---	---	---	---	---	1
	37-1	480+00.7	51.7'RT	---	---	---	---	---	---	---	1
	37-2	482+91.6	12.9'RT	---	---	---	---	1	---	---	1
	38-1	489+25.1	5.6'LT	---	---	---	---	---	---	1	---
	38-2	491+74.8	51.3'LT	---	---	---	---	1	---	---	---
	39-1	497+75.2	51.1'RT	---	---	---	---	1	---	---	---
	39-2	495+08.1	12.4'LT	---	---	---	---	1	---	---	---
	39-3	495+08.2	6.5'LT	---	---	---	---	1	---	---	---
	40-1	502+89.9	12.7'LT	---	---	---	---	1	---	---	---
	40-2	503+49.4	51.6'LT	---	---	---	---	1	---	---	---
	40-3	505+00.2	51.3'LT	---	---	---	---	1	---	---	---
	40-4	506+24.9	51.9'LT	2	---	---	---	1	---	---	---
UNDISTRIBUTED				---	---		---	2	5	4	2
			SUBTOTAL 0010	1	0	2	3	23	8	8	16
			PROJECT TOTAL 0010	17	3	2	5	50	10	8	62

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

628-EROSION CONTROL & RESTORATION ITEMS

LOCATION	STATION	TO	STATION	* 625.0100 TOPSOIL SY		* 628.7010 INLET PROTECTION TYPE B EACH		628.7015 INLET PROTECTION TYPE C EACH		* 628.7020 INLET PROTECTION TYPE D EACH		629.0210 FERTILIZER TYPE B CWT		631.1000 SOD LAWN SY	
USH 18				EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
	228+87	-	233+50	---	21	---	---	4	3	---	---	---	2	---	21
	233+50	-	240+50	---	2	---	---	3	7	---	---	---	1	---	2
	240+50	-	247+50	31	4	---	---	9	10	---	---	2	1	31	4
	247+50	-	254+50	7	8	---	---	5	5	---	---	1	1	7	8
	254+50	-	261+50	---	4	---	2	6	3	3	2	---	1	---	4
	261+50	-	268+50	---	8	---	---	7	4	---	---	---	1	---	8
	268+50	-	275+50	17	29	---	---	7	5	---	---	2	2	17	29
	275+50	-	282+50	---	11	---	---	9	6	---	---	---	1	---	11
	282+50	-	289+50	128	13	1	---	10	4	---	---	1	1	128	13
	289+50	-	296+50	9	15	1	---	5	4	3	2	1	1	9	15
	296+50	-	303+50	17	12	---	---	8	7	---	---	2	1	17	12
	303+50	-	310+50	---	20	---	---	8	4	---	---	---	2	---	20
	310+50	-	317+50	18	19	---	---	6	3	---	---	2	2	18	19
	317+50	-	324+50	22	32	---	---	11	6	---	---	2	3	22	32
	324+50	-	331+50	7	---	---	---	6	3	---	---	1	---	7	---
	331+50	-	338+50	7	11	---	1	8	5	1	---	1	1	7	11
	338+50	-	345+50	10	16	---	3	3	1	---	---	1	1	10	16
	345+50	-	352+50	1	---	---	---	9	9	---	---	1	---	1	---
	352+50	-	359+50	13	12	---	---	7	8	---	---	1	1	13	12
	359+50	-	366+50	9	25	1	---	5	6	---	---	1	2	9	25
	366+50	-	373+50	7	6	---	---	6	6	---	---	1	1	7	6
	373+50	-	380+50	---	24	---	---	6	4	---	---	---	2	---	24
	380+50	-	387+50	7	39	---	---	13	2	---	---	1	3	7	39
	387+50	-	394+50	9	21	---	---	7	3	---	---	1	2	9	21
	394+50	-	401+50	28	---	1	---	4	7	3	3	2	---	28	---
	401+50	-	408+50	---	---	2	---	9	5	---	---	---	---	---	---
	408+50	-	415+50	54	---	4	3	7	1	---	---	4	---	54	---
	415+50	-	422+50	36	18	1	3	2	---	---	---	3	2	36	18
	422+50	-	429+50	36	---	4	3	4	2	---	---	3	---	36	---
	429+50	-	436+50	31	34	5	4	5	---	---	---	2	3	31	34
	436+50	-	443+50	35	50	5	1	2	2	---	---	3	4	35	50
	443+50	-	450+50	15	25	3	1	2	1	---	---	1	2	15	25
	450+50	-	457+50	---	---	3	3	5	7	---	---	---	---	---	---
	457+50	-	464+50	---	---	4	2	3	6	---	---	---	---	---	---
	464+50	-	471+50	65	37	2	2	2	---	---	---	5	3	65	37
	471+50	-	478+50	192	18	2	2	2	2	---	---	13	2	192	18
	478+50	-	485+50	19	---	4	2	4	6	---	---	2	---	19	---
	485+50	-	492+50	8	---	3	2	5	6	---	---	1	---	8	---
	492+50	-	499+50	71	39	4	3	6	4	---	---	5	3	71	39
	499+50	-	506+50	---	---	3	4	3	2	---	---	---	---	---	---
	506+50	-	511+34	4	29	3	2	1	1	2	2	1	2	4	29
UNDISTRIBUTED				91	60	6	4	23	17	1	1	7	5	91	60
			TOTAL 0010	1,515		99		404		21		121		1,515	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

638-SIGNING

LOCATION	SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W (IN.)	X	H (IN.)	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	637.1220 SIGNS TYPE I REFLECTIVE SH SF	637.2210 SIGNS TYPE II REFLECTIVE H SF	* 638.2102 MOVING SIGNS TYPE II EACH	638.2601 REMOVING SIGNS TYPE I EACH	MOUNT ON SAME POST AS SIGN #	REMARKS
USH 18													
	4-1	D16-1	---	96	X	60		40			1		MOUNT ON OVERHEAD SIGN SUPPORT S-67-281 REPLACE I BEAMS WITH NEW I BEAMS TO MATCH NEW SIGN AND SIZE. INCIDENTAL TO SIGN.
	M6-1	R3-53R	---	24	X	30	1			1			
	M7-1	R1-1-F	---	---	X	---				1			
	M7-2	R6-2-L	---	24	X	30				1		M7-1	
	M7-3	R1-1-F	---	---	X	---				1			
	M7-4	R6-2-L	---	24	X	30				1		M7-3	
	9-1	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	12-1	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	13-1	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	17-1	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	19-1	R3-20L	---	24	X	36	1		6				
	19-2	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	19-3	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	20-1	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	23-1	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	M23-1	R1-1-F	---	---	X	---				1			
	M23-2	R5-1	---	30	X	30				1			
	M23-3	R1-1-F	---	---	X	---				1		M23-1	
	25-1	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	25-2	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	26-1	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	M26-1	R6-2-R	---	24	X	30	1			1			
	27-1	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	27-2	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	28-1	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	28-2	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	28-3	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	30-1	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	30-2	---	WATCH FROM BUSES FROM LEFT	12	X	36			3				
	M33-1	R1-1-F	---	---	X	---				1			
	M33-2	R4-7	---	30	X	30				1		M33-1	
	M34-1	R1-1-F	---	---	X	---				1			
	M34-2	R10-50L	---	30	X	36				1		M34-1	MOUNT ABOVE SIGNAL POLE
	M34-3	R5-1	---	30	X	30				1		M34-1	
	M39-1	---	UNDERWOOD CROSSING PARKWAY	---	X	---				1			
	M39-2	R4-7	---	24	X	30				1			
	M39-3	R1-1-F	---	---	X	---				1			
	M39-4	R5-1	---	30	X	30				1		M39-3	
	M39-5	R1-1-F	---	---	X	---				1			
	M39-6	R6-3	---	30	X	24				1		M39-5	
	M39-7	R6-2-L	---	24	X	30				1			
	M39-8	---	UNDERWOOD CROSSING PARKWAY	---	X	---				1			
	M39-9	R4-7	---	24	X	30				1			
	M39-10	R1-1-F	---	---	X	---				1			
	M39-11	R5-1	---	30	X	30				1		M39-10	
	M39-12	R1-1-F	---	30	X	30				1			
	M39-13	R5-1	---	---	X	---				1		M39-11	
	40-1	---	WATCH FROM BUSES FROM LEFT	12	X	36	1		3				
	M41-1	R1-1-F	---	---	X	---				1			
	M41-2	R1-1-F	---	---	X	---				1			
	M41-3	R1-1-F	---	---	X	---				1			
	M41-4	R1-1-F	---	---	X	---				1			
	M41-5	R7-1-D	---	18	X	24				1			
	M41-6	R10-50L	---	30	X	36				1		M41-4	
	M41-7	---	124TH ST	---	X	---				1			
	M41-8	R5-1	---	30	X	30				1		M41-3	
	M41-9	R4-7	---	24	X	30			5			M41-2	
UNDISTRIBUTED							30		100	20			
*ADDITIONAL QUANTITIES SHOWN ELSEWHERE						TOTAL 0010	34	40	168	55	1		

3

643-TRAFFIC CONTROL

LOCATION	DURATION CALENDAR DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAYS	* 643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH	643.0800 TRAFFIC CONTROL ARROW BOARDS DAYS	* 643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAYS	# 643.0920 TRAFFIC CONTROL COVERING SIGNS EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS	643.1070 TRAFFIC CONTROL CONES 42-INCH EACH	643.1070 TRAFFIC CONTROL CONES 42-INCH DAYS
H 18 EAST BOUND																
STAGE 1	62	70	4340	12	744	1488	1240	2	124	12	744		2	14	319	19770
STAGE 2	61	97	5917	26	1586	1464	1220	2	122	19	1159	2	2	14	305	18576
STAGE 3	77	152	11704	17	1309	1540	1540	2	154	24	1848		2	14	760	58539
STAGE 4	152	215	32680	38	5776	3040	3800	2	304	34	5168		2	14	642	97566
H 18 WEST BOUND																
STAGE 1	62	82	5084	9	558	1488	1240	2	124	9	558		2	14	335	20770
STAGE 2	61	120	7320	26	1586	1464	1220	2	122	20	1220		2	14	305	18584
STAGE 3	77	164	12628	20	1540	1540	770	2	154	27	2079		2	14	785	60445
STAGE 4	152	201	30552	38	5776	3040	2280	2	304	33	5016		2	14	644	97876
UNDISTRIBUTED			10000		3000	400	150		100		150	18		500		45000
TOTAL 0010			120,225		21,875	15,464	13,460		1,508		17,942	20		612		437,126

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

1 CYCLE ASSUMED FOR COVERING SIGNS

3

644-TEMPORARY PEDESTRIAN ACCOMODATIONS

	644.1410 TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1430 TEMPORARY PEDESTRIAN SURFACE PLATE SF	644.1440 TEMPORARY PEDESTRIAN SURFACE MATTING SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1605 TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD SF	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
	10,000	10,000	1,000	2,000	1,900	3,600
TOTAL 0010	10,000	10,000	1,000	2,000	1,900	3,600

643-TEMPORARY MARKING

LOCATION	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	643.3105 TEMPORARY MARKING LINE PAINT 4-INCH WHITE LF	643.3105 TEMPORARY MARKING LINE PAINT 4-INCH YELLOW LF	643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH LF	643.3205 TEMPORARY MARKING LINE PAINT 8-INCH LF
USH 18 EAST BOUND					
STAGE 1 DAYTIME	---	10,724	---	---	---
STAGE 2 DAYTIME	---	11,798	8,142	---	1,851
STAGE 3 DAYTIME	---	24,903	---	---	---
STAGE 4 DAYTIME	---	30,845	1,508	13,625	4,657
USH 18 WEST BOUND					
STAGE 1 DAYTIME	---	11,398	---	---	---
STAGE 2 DAYTIME	---	13,448	7,275	---	2,435
STAGE 3 DAYTIME	---	24,953	---	---	---
STAGE 4 DAYTIME	---	28,568	822	13,002	4,138
UNDISTRIBUTED	984				
TOTAL 0010	984	174,384		26,627	13,081

3

646-PAVEMENT MARKING ITEMS

LOCATION	STATION	TO	STATION	646.1020 MARKING LINE EPOXY 4-INCH LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH LF	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.5220 MARKING SYMBOL EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.6220 MARKING YIELD LINE EPOXY 18-INCH EACH	646.6464 COLD WEATHER MARKING EPOXY 4-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
USH 18 EAST BOUND																	
	228+87	-	269+60	7,275	3,800	6,171	31	14	1	357	1		666	959	---	144	5
	269+60	-	296+17	4,929	1,922	2,064	8	5	1	69	2		784	188	138	25	2
	296+17	-	322+95	4,702	1,974	2,252	12	5	1	114	1		740	283	162	48	3
	322+95	-	349+49	4,287	2,116	4,537	18	9	1	186	2		575	657	---	90	5
	349+49	-	391+00	5,492	4,134	6,446	35	19	2	422	3		617	1,647	---	115	8
	391+00	-	416+91	3,409	2,118	4,979	34	11	---	260	1		186	896	---	78	4
	416+91	-	471+60	6,998	2,114	4,315	35	8	1	110	1		573	358	---	223	7
	471+60	-	495+80	6,174	1,008	4,171	20	12	1	141	1		326	473	---	25	2
	495+80	-	511+34	3,109	463	1,150	15	6	---	96			357	409	---	57	4
																---	---
SH 18 WEST BOUND																---	---
	228+87	-	269+60	7,059	3,562	3,938	19	2	---	270	1		246	951	---	113	4
	269+60	-	296+17	4,920	2,173	1,967	7	4	1	75	2		819	157	156	32	2
	296+17	-	322+95	5,349	1,870	2,330	13	5	1	84	2		768	216	72	33	2
	322+95	-	349+49	3,359	2,273	2,925	8	6	1	201	1		580	1,000	---	24	1
	349+49	-	391+00	4,130	3,296	4,510	29	8	2	343	3		426	1,503	---	219	10
	391+00	-	416+91	2,011	2,484	3,155	13	7	1	220	1		130	603	---	31	3
	416+91	-	471+60	7,698	1,987	3,631	30	4	1	57	1		880	360	---	131	6
	471+60	-	495+80	5,166	1,044	2,696	11	5	1	84	1		686	522	---	40	4
	495+80	-	511+34	2,300	464	863	2	1	---	63			474	287	---	56	2
UNDISTRIBUTED												38,525					
	TOTAL 001C			88,367	38,802	62,100	340	131	16	3,152	24	38,525	9,833	11,469	528	1,484	74

650-CONSTRUCTION STAKING

LOCATION	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.8501.01 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (2200-20-70) EACH	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (2200-20-70) EACH
USH 18	7778	28247	1	129	1
TOTAL 0010	7,778	28,247	1	129	1

646-MARKING REMOVALS

LOCATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9010 MARKING REMOVAL LINE WATER BLASTING 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	646.9110 MARKING REMOVAL LINE WATER BLASTING 8-INCH LF
USH 18	---	612	631	165
UNDISTRIBUTED	500	1,500	1,500	500
TOTAL 0010	500	2,112	2,131	665

690-SAWING

STATION	TO	STATION	690.0150 * SAWING ASPHALT LF EB	690.0150 * SAWING ASPHALT LF WB	690.0250 SAWING CONCRETE LF EB	690.0250 SAWING CONCRETE LF WB
228+87	-	233+50	57	75		
233+50	-	240+50	61	130	15	
240+50	-	247+50	257	227	298	293
247+50	-	254+50	207	112	138	51
254+50	-	261+50			156	78
261+50	-	268+50		31	30	94
268+50	-	275+50	147	130	305	248
275+50	-	282+50		30	90	187
282+50	-	289+50	50		222	102
289+50	-	296+50	158	58	245	220
296+50	-	303+50		45	124	183
303+50	-	310+50		88	23	210
310+50	-	317+50	38	84	117	174
317+50	-	324+50	202	134	181	177
324+50	-	331+50	1,022		81	45
331+50	-	338+50	23	55	86	153
338+50	-	345+50	29	43	108	71
345+50	-	352+50	75	286	183	192
352+50	-	359+50	38	32	145	328
359+50	-	366+50	36	132	130	220
366+50	-	373+50	79	29	74	151
373+50	-	380+50		36	12	97
380+50	-	387+50	166	190	326	207
387+50	-	394+50	181	146	379	223
394+50	-	401+50	39		143	49
401+50	-	408+50	104	128	98	60
408+50	-	415+50	82		374	66
415+50	-	422+50	40	25	395	122
422+50	-	429+50	110		395	90
429+50	-	436+50	48	48	215	210
436+50	-	443+50	56	47	185	275
443+50	-	450+50	34		112	88
450+50	-	457+50			100	121
457+50	-	464+50	66		104	323
464+50	-	471+50	22	34	139	208
471+50	-	478+50	40	45	182	147
478+50	-	485+50	267	229	154	153
485+50	-	492+50	31		92	27
492+50	-	499+50	78		321	221
499+50	-	506+50		126	64	185
506+50	-	511+34	47		37	149
		TOTAL 0010	6,665		12,776	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY BUS STOP

LOCATION	SPV.0060.41 TEMPORARY BUS STOP EACH
UNDISTRIBUTED	10
TOTAL 0010	10

WATERMAIN ADJUSTMENTS

LOCATION	SPV.0060.37 REPLACE WATER VALVE BOX EACH	SPV.0060.38 ADJUST WATER VALVE BOX EACH
USH 18	6	8
TOTAL 0040	6	8

SANITARY SEWER ITEMS

LOCATION	SPV.0060.39 ADJUST SANITARY SEWER MANHOLE EACH	SPV.0060.40 SANITARY MANHOLE SEAL EACH
USH 18	2	1
TOTAL 0050	2	1

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CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.
PB22	PB15	25
PB21	PB18	23
	TOTAL	48 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH
PB21	STA 234+97; 104' LT	1
PB22	STA 234+39; 88' LT	1
	TOTAL	2 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.25 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & I-94 WESTBOUND ON RAMP	1
TOTAL	1

USH 18 (W BLUEMOUND RD) & CTH JJ (BLUEMOUND RD)
WAUKESHA COUNTY
CATEGORY 0020
S67-0389

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
22	PB3	STA 237+36; 49' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	48	275	132
23	PB3	STA 237+36; 37' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	275	156
24	PB3	STA 237+36; 26' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	275	178
43	PB22	STA 234+53; 94' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	135	192
44	PB22	STA 234+62; 67' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	135	192
45	PB22	STA 234+65; 98' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	135	218
46	PB22	STA 234+73; 71' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	135	218
47	PB21	STA 234+75; 101' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	52	208
48	PB21	STA 234+84; 75' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	52	208
62	PB13	STA 232+57; 46' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	370	202
63	PB13	STA 232+57; 34' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	370	178
64	PB13	STA 232+57; 22' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	48	370	156
						TOTAL	966 *	2579 *	2238 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

FILE NAME : N:\PDS\C3D\CAD\XXXXXXXX\SIG\SXX-XXXX\SXX-XXXX_mq.pptx PLOT DATE : 1/30/2023 PLOT BY : DOTCMV PLOT NAME : SXX-XXXX_mq.pdf PLOT SCALE : 1:1

USH 18 (W BLUEMOUND RD) & CTH Y (N. BARKER RD)
WAUKESHA COUNTY
CATEGORY 0020
S67-0133

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.
PB32	PB25	231
PB33	PB11	203
	TOTAL	434 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH
PB32	STA 242+12; 331' LT	1
PB33	STA 243+29; 336' RT	1
	TOTAL	2 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.24 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & BARKER RD	1
TOTAL	1

USH 18 (W BLUEMOUND RD) & CTH Y (N. BARKER RD)
WAUKESHA COUNTY
CATEGORY 0020
S67-0133

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB21	STA 241+69; 13' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	346	196
12	PB22	STA 241+99; 9' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	385	202
13	PB23	STA 241+69; 1' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	311	194
14	PB23	STA 241+97; 2' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	311	206
23	PB3	STA 245+54; 52' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	242	160
24	PB3	STA 245+54; 41' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	242	180
25	PB3	STA 245+54; 30' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	120	242	204
26	PB3	STA 245+54; 20' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	146	242	230
31	PB13	STA 242+74; 123' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	405	208
32	PB13	STA 242+71; 94' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	405	194
33	PB14	STA 242+63; 123' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	407	190
34	PB14	STA 242+60; 95' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	407	210
41	PB32	STA 242+32; 331' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	441	172
42	PB32	STA 242+42; 331' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	441	192
43	PB27	STA 242+30; 108' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	125	206
44	PB26	STA 242+30; 80' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	221	194
45	PB27	STA 242+42; 108' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	125	184
46	PB28	STA 242+41; 80' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	138	190
51	PB5	STA 243+63; 1.3' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	133	190
52	PB6	STA 243+34; 5.3' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	174	190
53	PB7	STA 243+64; 13' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	170	192
54	PB6	STA 243+36; 16' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	174	212
63	PB19	STA 239+79; 66' RT	6x10	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	614	224
64	PB19	STA 239+79; 55' RT	6x10	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	106	614	246
65	PB19	STA 239+79; 44' RT	6x10	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	128	614	268
66	PB19	STA 239+79; 34' RT	6x10	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	148	614	288
71	PB28	STA 242+63; 110' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	138	204
72	PB28	STA 242+66; 80' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	138	190
73	PB29	STA 242+74; 110' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	87	184
74	PB29	STA 242+77; 82' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	87	190
81	PB33	STA 243+03; 333' RT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	526	206
82	PB33	STA 242+92; 334' RT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	526	226
83	PB13	STA 243+06; 117' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	405	214
84	PB13	STA 243+06; 89' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	405	214
85	PB13	STA 242+95; 117' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	405	198
86	PB13	STA 242+95; 89' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	405	188
						TOTAL	3192 *	11665 *	7336 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

USH 18 (W BLUEMOUND RD) & POPLAR CREEK PKWY
WAUKESHA COUNTY
CATEGORY 0020
S67-1270

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
2	VIDEO CAMERA

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.
PB17	PB16	150
PB16	PB7	210
PB15	PB14	150
PB14	PB1	225
	TOTAL	735 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH
PB14	STA 249+96; 78' RT	1
PB15	STA 248+46; 81' RT	1
PB16	STA 255+96; 68' LT	1
PB17	STA 257+47; 67' LT	1
	TOTAL	4 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRANSPORT AND INSTALL STATE FURNISHED VIDEO DETECTION SYSTEM

LOCATION	SPV.0060.12 INSTALL STATE-FURNISHED VIDEO DETECTION SYSTEM EACH
USH 18 (W BLUEMOUND RD) & POPLAR CREEK PKWY	1
TOTAL	1

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.23 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & POPLAR CREEK PKWY	1
TOTAL	1

FILE NAME : N:\PDS\C3D\CAD\XXXXXXXX\SIG\SXX-XXXX\SXX-XXXX_mq.pptx PLOT DATE : 1/30/2023 PLOT BY : DOTCMV PLOT NAME : SXX-XXXX_mq.pdf PLOT SCALE : 1:1

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TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB3	STA 251+96; 2.2' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	139	218
12	PB3	STA 252+24; 1.6' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	139	186
21	PB17	STA 257+47; 49' LT	6x18	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	762	288
22	PB17	STA 257+47; 25' LT	6x18	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	132	762	336
23	PB16	STA 255+97; 54' LT	6x10	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	60	594	200
24	PB16	STA 255+97; 42' LT	6x10	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	594	224
25	PB16	STA 255+97; 30' LT	6x10	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	106	594	246
26	PB16	STA 255+97; 19' LT	6x10	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	128	594	268
51	PB9	STA 253+96; 1' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	275	194
52	PB9	STA 253+68; 1' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	275	186
61	PB15	STA 248+46; 60' RT	6x18	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	454	240
62	PB15	STA 248+46; 38' RT	6x18	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	128	454	284
63	PB14	STA 249+96; 66' RT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	48	289	132
64	PB14	STA 249+96; 52' RT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	289	160
65	PB14	STA 249+96; 42' RT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	289	184
66	PB14	STA 249+96; 31' RT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	122	289	206
						TOTAL	1472*	6792*	3552*

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

USH 18 (W BLUEMOUND RD) & N. JANACEK RD
WAUKESHA COUNTY
CATEGORY 0020
S67-0393

TRAFFIC SIGNAL REMOVALS

LOCATION	204.9060.S.05 REMOVING TRAFFIC SIGNALS EACH
USH 18 (W BLUEMOUND RD) & JANACEK RD	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0605 CONDUIT SPECIAL 2-INCH L.F.
PB24	PB2	157	--
PB25	PB13	--	158
			--
	TOTAL	157 *	158 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB24	STA 269+39; 256' LT	1	--
PB25	STA 269+93; 257' RT	--	1
			--
	TOTAL	1 *	1 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB3	HEAD 18	--	22
SB3	HEAD 20	21	--
SB3	HEAD 28	15	--
SB3	HEAD 29	15	--
SB4	HEAD 19	--	55
SB13	HEAD 15	21	--
SB13	HEAD 23	--	22
SB13	HEAD 34	15	--
SB13	HEAD 35	15	--
SB14	HEAD 24	--	55
	TOTAL	102 *	154 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB3	1	1	1
SB13	1	1	1
TOTAL	2 *	2 *	2 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

USH 18 (W BLUEMOUND RD) & N. JANACEK RD
WAUKESHA COUNTY
CATEGORY 0020
S67-0393

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB20	STA 268+70; 0.2' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	114	182
12	PB21	STA 268+98; 0.2' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	144	182
22	PB7	STA 272+17; 42' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	393	182
23	PB7	STA 272+17; 30' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	393	206
24	PB7	STA 272+17; 20' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	118	393	226
41	PB24	STA 269+55; 255' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	54	223	138
42	PB3	STA 269+49; 107' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	104	80	220
43	PB3	STA 269+49; 79' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	80	200
44	PB3	STA 269+60; 106' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	120	80	236
45	PB3	STA 269+60; 78' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	80	230
51	PB11	STA 270+50; 0.3' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	306	184
52	PB10	STA 270+22; 0.2' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	325	192
62	PB18	STA 266+96; 19' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	120	388	228
63	PB18	STA 266+96; 29' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	388	208
64	PB18	STA 266+96; 41' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	388	184
81	PB25	STA 269+67; 256' RT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	516	202
82	PB14	STA 269+69; 104' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	110	378	226
83	PB14	STA 269+70; 76' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	378	204
84	PB14	STA 269+58; 104' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	128	378	244
85	PB14	STA 269+58; 76' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	122	378	238
						TOTAL	1864 *	5803 *	4112 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

USH 18 (W BLUEMOUND RD) & N. JANACEK RD
WAUKESHA COUNTY
CATEGORY 0020
S67-0393

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
15	SB13	1	--	--
18	SB3	--	1	--
19	SB4	--	1	--
20	SB3	1	--	--
23	SB13	--	1	--
24	SB14	--	1	--
28	SB3	--	--	1
29	SB3	--	--	1
34	SB13	--	--	1
35	SB13	--	--	1
	TOTAL	2 *	4 *	4 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

LED MODULES SUMMARY

SIGNAL HEAD NO.	SIGNAL BASE NO.	PEDESTRIAN SIGNAL FACE 16-INCH EACH	LED MODULES 12-INCH RED BALL EACH	LED MODULES 12-INCH YELLOW BALL EACH	LED MODULES 12-INCH GREEN BALL EACH	LED MODULES 12-INCH RED ARROW EACH	LED MODULES 12-INCH YELLOW ARROW EACH	LED MODULES 12-INCH GREEN ARROW EACH
15	SB13	--	1	1	1	--	--	--
18	SB3	--	--	--	--	1	2	1
19	SB4	--	--	--	--	1	2	1
20	SB3	--	1	1	1	--	--	--
23	SB13	--	--	--	--	1	2	1
24	SB14	--	--	--	--	1	2	1
28	SB3	1	--	--	--	--	--	--
29	SB3	1	--	--	--	--	--	--
34	SB13	1	--	--	--	--	--	--
35	SB13	1	--	--	--	--	--	--
	TOTAL	4	1	1	1	4	8	4

SIGNAL MOUNTING HARDWARE

LOCATION	658.5070.05 SIGNAL MOUNTING HARDWARE EACH
USH 18 (W BLUEMOUND RD) & JANACEK RD	1
TOTAL	1

LAMP, BALLAST, LED, SWITCH DISPOSAL

FIXTURE TYPE	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
PEDESTRIAN SIGNAL - 16 INCH	4
TRAFFIC SIGNAL, THREE SECTION	6
TOTAL	10 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

LAMP, BALLAST, LED, SWITCH DISPOSAL

SIGNAL BASE NO.	(FOR INFORMATION ONLY) PEDESTRIAN SIGNAL, 16 INCH EACH	TRAFFIC SIGNAL, THREE SECTION EACH
SB3	2	2
SB4	--	1
SB13	2	2
SB14	--	1
TOTAL	4	6

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.22 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & JANACEK RD	1
TOTAL	1

3

3

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.
PB26	PB1	200
PB27	PB13	215
	TOTAL	415 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH
PB26	STA 296+18; 302' LT	1
PB27	STA 296+28; 302' RT	1
	TOTAL	2 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.21 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & BROOKFIELD RD	1
TOTAL	1

3

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB22	STA 295+34; 0' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	183	182
12	PB22	STA 295+62; 0' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	183	184
22	PB6	STA 298+88; 41' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	401	184
23	PB6	STA 298+88; 30' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	401	206
24	PB6	STA 298+88; 20' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	118	401	226
31	PB14	STA 296+10; 104' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	138	417	254
32	PB14	STA 296+13; 76' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	136	417	252
41	PB26	STA 296+38; 300' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	258	148
42	PB2	STA 296+18; 107' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	41	200
43	PB2	STA 296+15; 79' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	41	196
51	PB9	STA 297+11; 0' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	320	182
52	PB9	STA 296+83; 0' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	320	192
62	PB18	STA 293+53; 41' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	413	182
63	PB18	STA 293+53; 30' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	413	204
64	PB18	STA 293+53; 20' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	116	413	224
71	PB2	STA 296+30; 106' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	104	54	220
72	PB2	STA 296+26; 78' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	104	54	220
81	PB27	STA 296+03; 299' RT	6x10	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	693	222
82	PB14	STA 296+21; 105' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	120	417	236
83	PB14	STA 296+24; 77' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	417	202
						TOTAL	1852*	6257*	4116*

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

USH 18 (W BLUEMOUND RD) & WOELFEL RD
WAUKESHA COUNTY
CATEGORY 0020
S67-0441

3

TRAFFIC SIGNAL REMOVALS

LOCATION	204.9060.S.04 REMOVING TRAFFIC SIGNALS EACH
USH 18 (W BLUEMOUND RD) & WOELFEL RD	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0605 CONDUIT SPECIAL 2-INCH L.F.
PB27	PB22	165	--
PB28	PB10	--	137
	TOTAL	165 *	137 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB27	STA 322+70; 253' LT	1	--
PB28	STA 323+36; 245' RT	--	1
	TOTAL	1 *	1 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB8	HEAD 25	--	22
SB8	HEAD 15	21	--
SB8	HEAD 36	15	--
SB8	HEAD 37	15	--
SB10	HEAD 26	--	70
SB20	HEAD 24	--	22
	TOTAL	51 *	114 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB8	1	1	1
SB20	1	1	--
TOTAL	2 *	2 *	1 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

3

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB20	STA 322+08; 4' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	270	198
12	PB20	STA 322+36; 5' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	270	214
22	PB2	STA 325+59; 32' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	238	168
23	PB2	STA 325+59; 21' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	108	238	192
24	PB2	STA 325+59; 11' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	128	238	212
31	PB12	STA 323+00; 108' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	345	208
32	PB12	STA 323+01; 80' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	345	208
33	PB12	STA 322+89; 108' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	345	184
34	PB12	STA 322+89; 80' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	345	192
41	PB27	STA 322+84; 250' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	54	323	138
42	PB24	STA 322+74; 97' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	94	186
43	PB24	STA 322+73; 69' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	94	188
51	PB8	STA 323+78; 6' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	141	190
52	PB8	STA 323+50; 6' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	141	204
62	PB16	STA 320+23; 43' RT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	549	202
63	PB16	STA 320+23; 31' RT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	549	226
64	PB16	STA 320+23; 21' RT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	122	549	246
71	PB25	STA 322+96; 103' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	70	190
72	PB25	STA 322+95; 75' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	70	182
81	PB28	STA 323+08; 263' RT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	424	168
82	PB11	STA 323+11; 108' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	112	278	228
83	PB11	STA 323+12; 80' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	278	214
						TOTAL	1922 *	6194 *	4338 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
15	SB8	1	--	--
24	SB20	--	1	--
25	SB8	--	1	--
26	SB10	--	1	--
36	SB8	--	--	1
37	SB8	--	--	1
	TOTAL	1 *	3 *	2 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

LED MODULES SUMMARY

SIGNAL HEAD NO.	SIGNAL BASE NO.	PEDESTRIAN SIGNAL FACE 16-INCH EACH	LED MODULES 12-INCH RED BALL EACH	LED MODULES 12-INCH YELLOW BALL EACH	LED MODULES 12-INCH GREEN BALL EACH	LED MODULES 12-INCH RED ARROW EACH	LED MODULES 12-INCH YELLOW ARROW EACH	LED MODULES 12-INCH GREEN ARROW EACH
15	SB8	--	1	1	1	--	--	--
24	SB20	--	--	--	--	1	2	1
25	SB8	--	--	--	--	1	2	1
26	SB10	--	--	--	--	1	2	1
36	SB8	1	--	--	--	--	--	--
37	SB8	1	--	--	--	--	--	--
	TOTAL	2	1	1	1	3	6	3

LAMP, BALLAST, LED, SWITCH DISPOSAL

FIXTURE TYPE	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
PEDESTRIAN SIGNAL - 16 INCH	2
TRAFFIC SIGNAL, THREE SECTION	4
TOTAL	6 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

LAMP, BALLAST, LED, SWITCH DISPOSAL

(FOR INFORMATION ONLY)

SIGNAL BASE NO.	PEDESTRIAN SIGNAL, 16 INCH EACH	TRAFFIC SIGNAL, THREE SECTION EACH
SB8	2	2
SB10	--	1
SB20	--	1
TOTAL	2	4

SIGNAL MOUNTING HARDWARE

LOCATION	658.5070.04 SIGNAL MOUNTING HARDWARE EACH
USH 18 (W BLUEMOUND RD) & WOELFEL RD	1
TOTAL	1

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.20 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & WOELFEL RD	1
TOTAL	1

FILE NAME : N:\PDS\C3D\CAD\XXXXXXXX\SIG\SXX-XXXX\SXX-XXXX_mq.pptx PLOT DATE : 1/30/2023 PLOT BY : DOTCMV PLOT NAME : SXX-XXXX_mq.pdf PLOT SCALE : 1:1

3

3

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.
PB2	PB33	230
PB6	PB35	20
PB17	PB34	225
	TOTAL	475 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH
PB35	STA 350+23; 135.4' LT	1
PB34	STA 349+24; 334' RT	1
PB33	STA 349+88; 332' LT	1
	TOTAL	3 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.19 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & N CALHOUN RD	1
TOTAL	1

FILE NAME : N:\PDS\C3D\CAD\XXXXXXXX\SIG\SXX-XXXX\SXX-XXXX_mq.pptx PLOT DATE : 1/30/2023 PLOT BY : DOTCMV PLOT NAME : SXX-XXXX_mq.pdf PLOT SCALE : 1:1

USH 18 (W BLUEMOUND RD) & N CALHOUN RD
WAUKESHA COUNTY
CATEGORY 0020
S67-0072

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB27	STA 348+50; 7' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	203	206
12	PB27	STA 348+78; 5' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	203	192
13	PB28	STA 348+23; 4' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	115	188
14	PB28	STA 348+51; 4' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	115	194
22	PB10	STA 352+76; 50' LT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	511	200
23	PB10	STA 352+75; 38' LT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	511	226
24	PB10	STA 352+75; 26' LT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	126	511	250
31	PB18	STA 349+39; 115' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	134	515	250
32	PB18	STA 349+47; 89' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	126	515	242
33	PB20	STA 349+28; 115' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	393	196
34	PB20	STA 349+36; 88' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	393	198
35	PB20	STA 349+19; 115' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	393	196
36	PB20	STA 349+26; 88' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	393	186
41	PB33	STA 350+15; 322' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	327	192
42	PB33	STA 350+27; 318' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	106	327	214
43	PB33	STA 350+38; 314' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	130	327	238
44	PB3	STA 349+45; 117' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	116	208
45	PB3	STA 349+36; 90' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	116	198
46	PB3	STA 349+58; 118' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	116	230
47	PB3	STA 349+50; 91' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	108	116	224
48	PB3	STA 349+73; 118' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	142	116	258
49	PB3	STA 349+63; 92' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	136	116	252
51	PB13	STA 350+58; 5' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	443	200
52	PB13	STA 350+31; 1 LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	443	190
53	PB14	STA 350+83; 6' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	435	188
54	PB14	STA 350+55; 6' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	435	188
62	PB24	STA 346+45; 53 RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	426	206
63	PB24	STA 346+45; 41 RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	122	426	230
64	PB24	STA 346+45; 31 RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	142	426	250
71	PB35	STA 349+84; 118' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	116	239	232
72	PB35	STA 349+75; 91' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	154	239	270
73	PB35	STA 349+96; 118' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	239	204
74	PB35	STA 349+87; 91' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	134	239	250
75	PB35	STA 350+13; 138' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	239	188
76	PB35	STA 350+04; 111' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	239	190
81	PB34	STA 349+03; 326' RT	6x14	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	1342	724	1514
82	PB34	STA 348+91; 322' RT	6x14	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	120	724	292
83	PB18	STA 349+62; 117' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	517	206
84	PB18	STA 349+71; 91' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	517	196
85	PB18	STA 349+51; 117' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	110	517	226
86	PB18	STA 349+59; 90' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	106	517	222
						TOTAL	5336 *	14432 *	10180 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

USH 18 (W BLUEMOUND RD) & THOMAS LN
WAUKESHA COUNTY
CATEGORY 0020
S67-0340

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.
PB29	PB1	141
	TOTAL	141 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH
PB29	STA 365+91; 252' LT	1
	TOTAL	1 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.18 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & THOMAS LN	1
TOTAL	1

USH 18 (W BLUEMOUND RD) & THOMAS LN
WAUKESHA COUNTY
CATEGORY 0020
S67-0340

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB26	STA 365+75; 0' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	149	182
12	PB26	STA 366+03; 0' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	149	184
22	PB8	STA 369+14; 42' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	397	182
23	PB8	STA 369+14; 30' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	397	204
24	PB8	STA 369+14; 20' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	116	397	224
31	PB17	STA 366+78; 103' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	344	188
32	PB17	STA 366+78; 75' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	344	190
41	PB29	STA 366+10; 255' LT	6x6	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	62	184	122
42	PB29	STA 366+21; 257' LT	6x6	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	184	144
43	PB2	STA 366+32; 112' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	70	230
44	PB2	STA 366+36; 84' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	70	216
51	PB13	STA 367+50; 0.3' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	338	190
52	PB13	STA 367+22; 0.4' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	338	180
62	PB21	STA 364+14; 42' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	361	182
63	PB21	STA 364+14; 30' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	361	206
64	PB21	STA 364+14; 20' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	118	361	226
71	PB3	STA 366+43; 113' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	91	186
72	PB3	STA 366+48; 86' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	91	194
81	PB16	STA 366+90; 103' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	106	459	222
82	PB16	STA 366+89; 75' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	459	198
						TOTAL	1690 *	5544 *	3850 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	MISCELLANEOUS QUANTITIES	SHEET: 528	E

FILE NAME : N:\PDS\C3D\CAD\XXXXXXXX\SIG\SXX-XXXX\SXX-XXXX_mq.pptx PLOT DATE : 1/30/2023 PLOT BY : DOTCMV PLOT NAME : SXX-XXXX_mq.pdf PLOT SCALE : 1:1

USH 18 (W BLUEMOUND RD) & N. EXECUTIVE DR
WAUKESHA COUNTY
CATEGORY 0020
S67-0313

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB4	1
SB7	1
SB8	1
TOTAL	3 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRAFFIC SIGNAL REMOVALS

LOCATION	204.9060.S.03 REMOVING TRAFFIC SIGNALS EACH
USH 18 (W BLUEMOUND RD) & EXECUTIVE DR	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.
PB21	PB8	170
PB22	PB17	165
PB8	SB4	6
PB9	PB24	22
PB10	SB7	5
PB11	SB8	16
PB18	PB23	14
	TOTAL	398 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0900 ADJUSTING PULL BOXES EACH
PB10	-	--	1
PB21	STA 383+56; 263' LT	1	--
PB22	STA 383+13; 270' RT	1	--
PB23	STA 383+04; 118' RT	1	--
PB24	STA 383+76; 106' LT	1	--
			--
	TOTAL	4 *	1*

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

3

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB6	STA 382+42; 6' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	183	184
12	PB6	STA 382+70; 7' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	183	186
23	PB12	STA 386+55; 42' LT	6x12	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	666	220
24	PB12	STA 386+55; 31' LT	6x12	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	666	242
25	PB12	STA 386+55; 21' LT	6x12	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	106	666	262
26	PB12	STA 386+55; 8' LT	6x12	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	132	666	288
31	PB23	STA 383+21; 132' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	135	214
32	PB23	STA 383+30; 105' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	135	204
33	PB23	STA 383+12; 129' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	135	188
34	PB23	STA 383+20; 102' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	135	184
41	PB21	STA 383+69; 263' LT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	52	526	176
42	PB21	STA 383+80; 263' LT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	526	196
43	PB24	STA 383+44; 115' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	112	410	228
44	PB24	STA 383+38; 88' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	112	410	228
45	PB24	STA 383+55; 113' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	410	206
46	PB24	STA 383+49; 86' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	410	208
51	PB15	STA 384+51; 10' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	356	196
52	PB15	STA 384+23; 9' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	356	182
63	PB2	STA 380+58; 55' RT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	234	174
64	PB2	STA 380+58; 43' RT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	234	198
65	PB2	STA 380+58; 31' RT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	138	234	222
66	PB2	STA 380+58; 21' RT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	158	234	242
71	PB24	STA 383+66; 112' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	410	186
72	PB24	STA 383+60; 85' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	410	186
81	PB22	STA 383+02; 269' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	46	350	154
82	PB23	STA 383+31; 136' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	112	135	228
83	PB23	STA 383+40; 110' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	110	135	226
						TOTAL	2436 *	9350 *	5608 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

3

CONCRETE BASES

SIGNAL BASE NO.	LOCATION ^	654.0101 CONCRETE BASES TYPE 1 EACH
SB4	STA 383+24; 87.1' LT	1
SB7	STA 384+24; 73.4' LT	1
SB8	STA 384+35; 64.3' LT	1
	TOTAL	3 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.
CB1	SB4	--	407
CB1	SB7	524	--
CB1	SB8	--	527
	TOTAL	524 *	934 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.
SB4	HEAD 23	19
SB4	HEAD 33	15
SB7	HEAD 36	15
SB8	HEAD 7	19
SB8	HEAD 9	19
SB8	HEAD 37	15
	TOTAL	102 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
SB3	SB4	146
SB4	SB5	90
SB6	SB7	95
SB7	SB8	79
SB8	SB9	130
SB11	SB12	42
SB12	SB13	164
PB8	SB4	18
PB10	SB7	15
PB11	SB8	30
	TOTAL	809 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB4	1	1	--	1
SB7	1	--	1	1
SB8	1	1	--	1
TOTAL	3 *	2 *	1 *	3 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

USH 18 (W BLUEMOUND RD) & N. EXECUTIVE DR
WAUKESHA COUNTY
CATEGORY 0020
S67-0313

3

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
7	SB8	1	--
9	SB8	1	--
23	SB4	1	--
33	SB4	--	1
36	SB7	--	1
37	SB8	--	1
	TOTAL	3 *	3 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

LED MODULES SUMMARY

SIGNAL HEAD NO.	SIGNAL BASE NO.	PEDESTRIAN SIGNAL FACE 16-INCH EACH	LED MODULES 12-INCH RED BALL EACH	LED MODULES 12-INCH YELLOW BALL EACH	LED MODULES 12-INCH GREEN BALL EACH	LED MODULES 12-INCH RED ARROW EACH	LED MODULES 12-INCH YELLOW ARROW EACH	LED MODULES 12-INCH GREEN ARROW EACH
7	SB8	--	--	--	--	1	1	1
9	SB8	--	1	1	1	--	--	--
23	SB4	--	1	1	1	--	--	--
33	SB4	1	--	--	--	--	--	--
36	SB7	1	--	--	--	--	--	--
37	SB8	1	--	--	--	--	--	--
	TOTAL	3	2	2	2	1	1	1

SIGNAL MOUNTING HARDWARE

LOCATION	658.5070.03 SIGNAL MOUNTING HARDWARE EACH
USH 18 (W BLUEMOUND RD) & EXECUTIVE DR	1
TOTAL	1

LAMP, BALLAST, LED, SWITCH DISPOSAL

FIXTURE TYPE	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
PEDESTRIAN SIGNAL - 16 INCH	3
TRAFFIC SIGNAL, THREE SECTION	3
TOTAL	6 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

LAMP, BALLAST, LED, SWITCH DISPOSAL

(FOR INFORMATION ONLY)

SIGNAL BASE NO.	PEDESTRIAN SIGNAL, 16 INCH EACH	TRAFFIC SIGNAL, THREE SECTION EACH
SB4	1	1
SB7	1	--
SB8	1	2
TOTAL	3	3

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.17 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & EXECUTIVE DR	1
TOTAL	1

REMOVING, SALVAGING, & INSTALLING TRAFFIC SIGNAL EQUIPMENT

LOCATION	SPV.0060.32 REMOVING, SALVAGING, & INSTALLING TRAFFIC SIGNAL EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & EXECUTIVE DR	1
TOTAL	1

3

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CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.
PB25	PB24	85
PB26	PB16	16
PB29	PB1	145
PB24	PB15	20
PB2	PB27	16
PB3	PB28	14
	TOTAL	296 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH
PB24	STA 390+45; 112' LT	1
PB25	STA 390+39; 197' LT	1
PB26	STA 390+90; 113' LT	1
PB27	STA 391+48; 106' RT	1
PB28	STA 391+08; 136' RT	1
PB29	STA 391+85; 248' RT	1
	TOTAL	6 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.16 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & MAIN ST	1
TOTAL	1

USH 18 (W BLUEMOUND RD) & MAIN ST / BROOKFIELD SQUARE
WAUKESHA COUNTY
CATEGORY 0020
S67-0409

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB13	STA 389+94; 11' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	391	182
12	PB13	STA 390+22; 11' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	391	184
23	PB20	STA 393+80; 44' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	381	196
24	PB20	STA 393+80; 33' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	110	381	218
25	PB20	STA 393+80; 22' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	132	381	240
26	PB20	STA 393+80; 12' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	156	381	264
31	PB28	STA 397+29; 134' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	130	204
32	PB28	STA 391+25; 106' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	130	206
33	PB28	STA 391+19; 137' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	130	184
34	PB28	STA 391+14; 109' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	130	186
41	PB25	STA 390+52; 198' LT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	52	514	176
42	PB24	STA 390+57; 116' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	421	186
43	PB24	STA 390+58; 88' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	421	186
51	PB22	STA 392+17; 1' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	97	202
52	PB22	STA 391+89; 1' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	97	204
53	PB22	STA 392+17; 11' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	97	182
54	PB22	STA 391+89; 11' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	97	186
63	PB7	STA 388+15; 64' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	448	198
64	PB7	STA 388+15; 53' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	112	448	220
65	PB7	STA 388+15; 42' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	132	448	240
66	PB7	STA 388+15; 30' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	158	448	266
71	PB26	STA 390+68; 117' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	368	208
72	PB26	STA 390+70; 89' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	368	206
73	PB26	STA 390+79; 118' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	368	188
74	PB26	STA 390+80; 90' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	368	186
81	PB29	STA 391+59; 252' RT	6x6	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	179	134
82	PB27	STA 391+40; 131' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	86	218
83	PB27	STA 391+36; 103' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	86	204
						TOTAL	2518 *	8185 *	5654 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

USH 18 (W BLUEMOUND RD) & PILGRIM PKWY
WAUKESHA COUNTY
CATEGORY 0020
S67-0107

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB37	STA 403+22; 7' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	218	188
12	PB37	STA 403+51; 4' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	218	182
13	PB31	STA 403+15; 5' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	169	184
14	PB31	STA 403+43; 6' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	169	184
22	PB9	STA 407+11; 48' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	444	182
23	PB9	STA 407+11; 38' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	444	202
24	PB9	STA 407+11; 28' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	114	444	222
31	PB22	STA 404+35; 108' RT	6x20	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	456	264
32	PB22	STA 404+35; 80' RT	6x20	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	456	260
33	PB22	STA 404+23; 108' RT	6x20	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	456	236
34	PB22	STA 404+23; 80' RT	6x20	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	456	238
42	PB2	STA 403+81; 113' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	104	63	220
43	PB2	STA 403+81; 85' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	63	206
44	PB3	STA 403+91; 114' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	107	206
45	PB3	STA 403+91; 86' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	107	208
46	PB3	STA 404+02; 114' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	107	184
47	PB4	STA 404+02; 86' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	131	188
51	PB12	STA 405+23; 6' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	396	200
52	PB12	STA 404+94; 4' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	396	186
53	PB14	STA 405+39; 6' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	402	184
54	PB14	STA 405+11; 6' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WILL PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	402	188
62	PB26	STA 401+34; 44' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	112	470	220
63	PB26	STA 401+34; 34' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	132	470	240
64	PB26	STA 401+34; 24' RT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	152	470	260
71	PB4	STA 404+23; 114' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	131	216
72	PB4	STA 404+23; 86' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	131	186
73	PB5	STA 404+35; 114' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	143	184
74	PB5	STA 404+35; 86' LT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	143	188
83	PB20	STA 404+66; 102' RT	6x20	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	112	664	280
84	PB20	STA 404+66; 74' RT	6x20	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	664	258
85	PB20	STA 404+56; 102' RT	6x20	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	664	268
86	PB20	STA 404+56; 74' RT	6x20	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	664	238
						TOTAL	2770 *	10718 *	6850 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

REMOVE & SALVAGE RADAR DETECTION EQUIPMENT

LOCATION	SPV.0060.27 REMOVE & SALVAGE RADAR DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & PILGRIM PKWY	1
TOTAL	1

USH 18 (W BLUEMOUND RD) & N. SUNNYSLOPE RD
WAUKESHA COUNTY
CATEGORY 0020
S67-0335

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB2	1
SB4	1
SB8	1
SB10	1
TOTAL	4 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
PB25	PB26	--	--	56
PB13	PB11	--	--	45
PB26	SB14	--	26	--
PB19	SB10	5	--	--
PB13	SB7	--	9	--
PB13	SB8	9	--	--
TOTAL		14 *	35 *	101

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

REMOVING PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB5	1
PB13	1
PB19	1
PB26	1
TOTAL	4

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH	653.0900 ADJUSTING PULL BOXES EACH
PB5	STA 457+17.40; 9' RT	1	--	--
PB13	STA 458+13.76; 58' LT	--	1	--
PB19	STA 458+75.87; 9' RT	1	--	--
PB25	-	--	--	1
PB26	STA 457+38.69; 61' RT	--	1	--
				--
	TOTAL	2 *	2 *	1 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

3

CONCRETE BASES

SIGNAL BASE NO.	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH
SB2	REPLACE IN-KIND	1
SB4	REPLACE IN-KIND	1
SB8	REPLACE IN-KIND	1
SB10	REPLACE IN-KIND	1
	TOTAL	4 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.15 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & SUNNYSLOPE RD	1
TOTAL	1

REMOVING, SALVAGING, & REINSTALLING TRAFFIC SIGNAL EQUIPMENT

LOCATION	SPV.0060.31 REMOVING, SALVAGING, & REINSTALLING TRAFFIC SIGNAL EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & SUNNYSLOPE RD	1
TOTAL	1

USH 18 (W BLUEMOUND RD) & ELM GROVE RD
WAUKESHA COUNTY
CATEGORY 0020
S67-0126

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB6	1
TOTAL	1*

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION ^	654.0101 CONCRETE BASES TYPE 1 EACH
SB6	REPLACE IN-KIND	1
	TOTAL	1 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIE

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.14 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & ELM GROVE RD	1
TOTAL	1

REMOVING, SALVAGING, & REINSTALLING TRAFFIC SIGNAL EQUIPMENT

LOCATION	SPV.0060.30 REMOVING, SALVAGING, & REINSTALLING TRAFFIC SIGNAL EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & ELM GROVE RD	1
TOTAL	1

3

USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PARKWAY
WAUKESHA COUNTY
CATEGORY 0020
S67-1352

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	POLES TYPE 9 SPECIAL
1	POLES TYPE 12
1	MONOTUBE ARMS 40-FT TYPE 9/10 SPEC POLE
1	MONOTUBE ARMS 50-FT

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB1	1
SB3	1
SB4	1
SB5	1
SB6	1
SB8	1
SB9	1
SB11	1
SB12	1
SB13	1
TOTAL	10 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRAFFIC SIGNAL REMOVALS

LOCATION	204.9060.S.02 REMOVING TRAFFIC SIGNALS EACH
USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PKWY	1
TOTAL	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
PB1	SB1	14	--
PB7	SB3	6	--
PB8	SB4	--	8
PB8	SB5	18	--
PB9	SB6	11	--
PB16	SB11	5	--
PB17	SB12	--	16
PB17	SB13	24	--
TOTAL		78 *	24 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION ^	654.0101 CONCRETE BASES TYPE 1 EACH	SPV.0060.33 TYPE 10 SPECIAL BASE SPREAD FOOTING SUBSTITUTION EACH	SPV.0060.34 TYPE 13 BASE SPREAD FOOTING SUBSTITUTION EACH
SB1	STA 496+48; 56.6' LT	1	--	--
SB3	STA 496+49; 9.4' LT	1	--	--
SB4	STA 496+77; 66.0' RT	--	--	1
SB5	STA 496+54; 56.8' RT	1	--	--
SB6	STA 496+34; 70.2' RT	1	--	--
SB8	REPLACE IN-KIND	1	--	--
SB9	REPLACE IN-KIND	1	--	--
SB11	STA 494+99; 9.4' LT	1	--	--
SB12	STA 494+87; 56.4' LT	--	1	--
SB13	STA 495+26; 56.2' LT	1	--	--
TOTAL		8 *	1	1

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

3

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11	PB16	STA 494+81; 0.2' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	201	214
12	PB16	STA 495+09; 0.4' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	201	200
21	PB4	STA 500+21; 31' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	451	174
22	PB4	STA 500+21; 19' LT	6x6	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	451	198
23	PB3	STA 498+72; 32' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	286	148
24	PB3	STA 498+72; 20' LT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	286	172
31	PB9	STA 496+15; 97' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	344	212
32	PB9	STA 496+15; 69' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88	344	204
33	PB10	STA 496+03; 97' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	399	212
34	PB10	STA 496+03; 69' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	399	208
35	PB10	STA 495+92; 97' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	399	200
36	PB10	STA 495+92; 69' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70	399	186
51	PB7	STA 496+78; 0.3' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	236	190
52	PB7	STA 496+51; 0.1' RT	6x20	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	236	180
61	PB14	STA 491+44; 32' RT	6x12	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	681	254
62	PB14	STA 491+44; 20' RT	6x12	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	122	681	278
63	PB13	STA 492+91; 32' RT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	520	220
64	PB13	STA 492+91; 20' RT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	120	520	244
						TOTAL	1590 *	7034 *	3694 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PARKWAY
WAUKESHA COUNTY
CATEGORY 0020
S67-1352

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.
CB1	SB1	--	44	--
CB1	SB2	--	262	--
CB1	SB3	289	--	--
CB1	SB4	365	--	--
CB1	SB5	376	--	--
CB1	SB6	--	--	430
CB1	SB8	361	--	--
CB1	SB9	--	--	350
CB1	SB11	242	--	--
CB1	SB12	193	--	--
CB1	SB13	204	--	--
				--
	TOTAL	2030 *	306 *	780

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	43
SB1	SB2	264
SB2	SB3	186
SB3	SB4	100
SB4	SB5	40
SB5	SB6	108
SB6	SB7	156
SB7	SB8	102
SB8	SB9	41
SB9	SB10	108
SB10	SB11	59
SB11	SB12	96
SB12	SB13	54
SB13	SB14	130
PB1	SB1	26
PB2	SB1	125
PB5	SB2	86
PB6	SB3	80
PB7	SB3	69
PB8	SB4	20
PB9	SB6	25
PB12	SB9	17
PB16	SB11	23
PB17	SB12	29
	TOTAL	1987 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB1	HEAD 5		22
SB1	HEAD 7	21	--
SB1	HEAD 25	15	--
SB2	HEAD 6	--	22
SB2	HEAD 26	15	--
SB2	HEAD 27	15	--
SB3	HEAD 10	--	22
SB4	HEAD 2	75	--
SB4	HEAD 3	75	--
SB5	HEAD 28	15	--
SB6	HEAD 13	21	--
SB6	HEAD 17	--	22
SB6	HEAD 29	15	--
SB11	HEAD 4	--	22
SB12	HEAD 8	65	--
SB12	HEAD 9	65	--
SB13	HEAD 22	15	--
	TOTAL	412 *	110 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG L.F.	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB12 (HEAD A)	223	223
CB1	SB4 (HEAD B)	395	395
	TOTAL	618*	618*

** ITEM 655.0210 TO BE USED WITH STATE SUPPLIED EVP CONFIRMATION LIGHTS
*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PARKWAY
WAUKESHA COUNTY
CATEGORY 0020
S67-1352

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB1	1	1	--	1
SB2	1	1	--	1
SB3	1	1	--	--
SB5	1	--	1	1
SB6	1	1	--	1
SB11	1	1	--	--
SB13	1	--	1	1
TOTAL	7 *	5 *	2 *	5 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

POLES (STATE FURNISHED)

SIGNAL BASE NO.	SPV.0060.01 INSTALL POLES TYPE 9 SPECIAL EACH	SPV.0060.02 INSTALL POLES TYPE 12 EACH	SPV.0060.04 INSTALL MONOTUBE ARMS 40-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.05 INSTALL MONOTUBE ARMS 50-FT EACH
SB4	--	1	--	1
SB12	1	--	1	--
TOTAL	1 *	1	1	1

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
2	SB4	1	--	--
3	SB4	1	--	--
4	SB11	--	1	--
5	SB1	--	1	--
6	SB2	--	1	--
7	SB1	1	--	--
8	SB12	1	--	--
9	SB12	1	--	--
10	SB3	--	1	--
13	SB6	1	--	--
17	SB6	--	1	--
22	SB13	--	--	1
25	SB1	--	--	1
26	SB2	--	--	1
27	SB2	--	--	1
28	SB5	--	--	1
29	SB6	--	--	1
TOTAL		6 *	5 *	6 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

LED MODULES SUMMARY

SIGNAL HEAD NO.	SIGNAL BASE NO.	PEDESTRIAN SIGNAL FACE 16-INCH EACH	LED MODULES 12-INCH RED BALL EACH	LED MODULES 12-INCH YELLOW BALL EACH	LED MODULES 12-INCH GREEN BALL EACH	LED MODULES 12-INCH RED ARROW EACH	LED MODULES 12-INCH YELLOW ARROW EACH	LED MODULES 12-INCH GREEN ARROW EACH
2	SB4	--	1	1	1	--	--	--
3	SB4	--	1	1	1	--	--	--
4	SB11	--	--	--	--	1	2	1
5	SB1	--	--	--	--	1	2	1
6	SB2	--	--	--	--	1	2	1
7	SB1	--	1	1	1	--	--	--
8	SB12	--	1	1	1	--	--	--
9	SB12	--	1	1	1	--	--	--
10	SB3	--	--	--	--	1	2	1
13	SB6	--	1	1	1	--	--	--
17	SB6	--	1	1	1	--	--	1
22	SB13	1	--	--	--	--	--	--
25	SB1	1	--	--	--	--	--	--
28	SB5	1	--	--	--	--	--	--
29	SB6	1	--	--	--	--	--	--
TOTAL		4	7	7	7	4	8	5

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	MISCELLANEOUS QUANTITIES	SHEET: 542	E

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3

SIGNAL MOUNTING HARDWARE

LOCATION	658.5070.02 SIGNAL MOUNTING HARDWARE EACH
USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PKWY	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0201.02 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS EACH	661.0300 GENERATORS DAY
USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PKWY	1	1
TOTAL	1	1 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

LAMP, BALLAST, LED, SWITCH DISPOSAL

FIXTURE TYPE	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
PEDESTRIAN SIGNAL - 16 INCH	6
TRAFFIC SIGNAL, THREE SECTION	8
TRAFFIC SIGNAL, FOUR SECTION	2
TOTAL	16 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

LAMP, BALLAST, LED, SWITCH DISPOSAL
(FOR INFORMATION ONLY)

SIGNAL BASE NO.	PEDESTRIAN SIGNAL, 16 INCH EACH	TRAFFIC SIGNAL, THREE SECTION EACH	TRAFFIC SIGNAL, FOUR SECTION EACH
SB1	1	2	--
SB2	2	1	--
SB3	--	1	1
SB4	--	1	--
SB5	1	--	--
SB6	1	1	1
SB11	--	1	--
SB12	--	1	--
SB13	1	--	--
TOTAL	6	8	2

3

TEMPORARY INFRARED EVP SYSTEM

LOCATION	SPV.0060.07 TEMPORARY EVP SYSTEM EACH
USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PKWY	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0060.09 TRANSPORT TRAFFIC SIGNAL & INTERSECTION LIGHTING MATERIALS EACH
USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PKWY	1
TOTAL	1

3

EVP DETECTOR HEAD INSTALLATION

LOCATION	SPV.0060.11 REMOVE, SALVAGE, AND REINSTALL EVP DETECTOR HEADS EACH
USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PKWY	1
TOTAL	1

REMOVE & SALVAGE RADAR DETECTION EQUIPMENT

LOCATION	SPV.0060.26 REMOVE & SALVAGE RADAR DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PKWY	1
TOTAL	1

REMOVING, SALVAGING, & REINSTALLING TRAFFIC SIGNAL EQUIPMENT

LOCATION	SPV.0060.29 REMOVING, SALVAGING, & REINSTALLING TRAFFIC SIGNAL EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & UNDERWOOD CROSSING PKWY	1
TOTAL	1

USH 18 (W BLUEMOUND RD) & UPS DRIVEWAY
WAUKESHA COUNTY
CATEGORY 0020
S67-0263

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	POLES TYPE 9 SPECIAL
1	MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB1	1
SB4	1
SB5	1
SB8	1
SB9	1
TOTAL	5 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRAFFIC SIGNAL REMOVALS

LOCATION	204.9060.S.01 REMOVING TRAFFIC SIGNALS EACH	204.9060.S.06 REMOVING LOOP DETECTOR WIRE & LEAD-IN CABLE EACH
USH 18 (W BLUEMOUND RD) & UPS DWY	1	1
TOTAL	1	1

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
PB17	PB14	40	--
PB1	SB1	7	--
PB7	SB4	--	5
PB8	SB5	26	--
PB15	PB18	66	--
	TOTAL	139 *	5 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH
PB17	STA 506+28; 5' RT	1
PB18	STA 509+07; 56' LT	1
	TOTAL	2 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION ^	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0120 CONCRETE BASES TYPE 10-SPECIAL EACH
SB1	STA 510+27; 65.4' LT	1	--	--
SB4	STA 510+94; 4.4' LT	--	--	1
SB5	STA 510+66; 57.3' RT	--	1	--
SB8	REPLACE IN-KIND	1	--	--
SB9	REPLACE IN-KIND	1	--	--
	TOTAL	3 *	1	1

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

USH 18 (W BLUEMOUND RD) & UPS DRIVEWAY
WAUKESHA COUNTY
CATEGORY 0020
S67-0263

3

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
61	PB17	STA 506+28; 33' RT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	298	208
62	PB17	STA 506+28; 21' RT	6x8	5	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	60	298	184
63	PB13	STA 507+91; 32' RT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	450	184
64	PB13	STA 507+91; 20' RT	6x6	4	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80	450	164
S1	PB18	STA 509+12; 20.5' LT	6x6	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90	135	150
S2	PB18	STA 509+12; 32.5' LT	6x6	3	HMA	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	135	126
						TOTAL	480 *	1766 *	1016 *

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.
CB1	SB1	--	43	--
CB1	SB4	--	235	--
CB1	SB5	355	--	355
CB1	SB8	--	260	--
CB1	SB9	--	173	--
				--
	TOTAL	355 *	711 *	355

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG L.F.	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB4 (HEAD B)	265	265
CB1	SB5 (HEAD C)	385	385
	TOTAL	650 *	650 *

** ITEM 655.0210 TO BE USED WITH STATE SUPPLIED EVP CONFIRMATION LIGHTS
*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	43
SB1	SB2	160
SB3	SB4	98
SB4	SB5	150
SB5	SB6	45
SB7	SB8	163
SB8	SB9	161
SB9	SB10	119
PB1	SB1	18
PB7	SB4	17
PB9	SB8	41
PB12	SB9	42
	TOTAL	1057 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB1	HEAD 9	19	--
SB4	HEAD 2	60	--
SB4	HEAD 3	60	--
SB4	HEAD 5	--	20
SB5	HEAD 10	20	--
	TOTAL	159 *	20 *

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB5	LUMIN.	117
	TOTAL	117

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3

USH 18 (W BLUEMOUND RD) & UPS DRIVEWAY
WAUKESHA COUNTY
CATEGORY 0020
S67-0263

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	1	--	--	1	--	1	--
SB5	--	1	1	--	1	--	1
TOTAL	1 *	1	1	1 *	1	1 *	1

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

POLES (STATE FURNISHED)

SIGNAL BASE NO.	SPV.0060.01 INSTALL POLES TYPE 9 SPECIAL EACH	SPV.0060.03 INSTALL MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE EACH
SB4	1	1
TOTAL	1 *	1

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH
2	SB4	1	--
3	SB4	1	--
5	SB4	--	1
9	SB1	1	--
10	SB5	1	--
	TOTAL	4 *	1 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

LED MODULES SUMMARY

SIGNAL HEAD NO.	SIGNAL BASE NO.	LED MODULES 12-INCH RED BALL EACH	LED MODULES 12-INCH YELLOW BALL EACH	LED MODULES 12-INCH GREEN BALL EACH	LED MODULES 12-INCH RED ARROW EACH	LED MODULES 12-INCH YELLOW ARROW EACH	LED MODULES 12-INCH GREEN ARROW EACH
2	SB4	1	1	1	--	--	--
3	SB4	1	1	1	--	--	--
5	SB4	--	--	--	1	2	1
9	SB1	1	1	1	--	--	--
10	SB5	1	--	--	--	1	1
	TOTAL	4	3	3	1	3	2

3

SIGNAL MOUNTING HARDWARE

LOCATION	658.5070.01 SIGNAL MOUNTING HARDWARE EACH
USH 18 (W BLUEMOUND RD) & UPS DWY	1
TOTAL	1

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0201.01 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS EACH	661.0300 GENERATORS DAY
USH 18 (W BLUEMOUND RD) & UPS DWY	1	1
TOTAL	1	1 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

3

LAMP, BALLAST, LED, SWITCH DISPOSAL

FIXTURE TYPE	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR EACH
TRAFFIC SIGNAL, THREE SECTION	4
TRAFFIC SIGNAL, FOUR SECTION	1
TOTAL	5 *

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN PLAN

LAMP, BALLAST, LED, SWITCH DISPOSAL
(FOR INFORMATION ONLY)

SIGNAL BASE NO.	TRAFFIC SIGNAL, THREE SECTION EACH	TRAFFIC SIGNAL, FOUR SECTION EACH
SB1	1	--
SB4	1	1
SB5	2	--
TOTAL	4	1

3

TEMPORARY INFRARED EVP SYSTEM

LOCATION	SPV.0060.06 TEMPORARY EVP SYSTEM EACH
USH 18 (W BLUEMOUND RD) & UPS DWY	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0060.08 TRANSPORT TRAFFIC SIGNAL & INTERSECTION LIGHTING MATERIALS EACH
USH 18 (W BLUEMOUND RD) & UPS DWY	1
TOTAL	1

3

EVP DETECTOR HEAD INSTALLATION

LOCATION	SPV.0060.10 REMOVE, SALVAGE, AND REINSTALL EVP DETECTOR HEADS EACH
USH 18 (W BLUEMOUND RD) & UPS DWY	1
TOTAL	1

REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT

LOCATION	SPV.0060.13 REMOVE & SALVAGE VIDEO DETECTION EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & UPS DWY	1
TOTAL	1

REMOVING, SALVAGING, & REINSTALLING TRAFFIC SIGNAL EQUIPMENT

LOCATION	SPV.0060.28 REMOVING, SALVAGING, & REINSTALLING TRAFFIC SIGNAL EQUIPMENT EACH
USH 18 (W BLUEMOUND RD) & UPS DWY	1
TOTAL	1

3

REMOVING CONCRETE PAVEMENT

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.0100 SY
0030	FRONTAGE ROAD	0+56 - 10+13	RT/LT	14
		TOTAL		14

REMOVING CURB & GUTTER

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	* 204.0150 LF
0030	FRONTAGE ROAD	0+56 - 10+13	LT/RT	15
		TOTAL		15

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

EXCAVATION COMMON

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	* 205.0100 CY	DESCRIPTION
0030	FRONTAGE ROAD	0+00 - 10+50	LT/RT	205	REFER TO CROSS SECTIONS
		TOTAL		205	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

BASE AGGREGATE DENSE

CATEGORY	PROJECT LOCATION	STATION	LOCATION	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0110 BREAKER RUN TON
0030	FRONTAGE ROAD	0+56 - 10+13	LT/RT	214	468
		TOTALS		214	468

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

PULVERIZE AND RELAY

CATEGORY	PROJECT LOCATION	STATION	LOCATION	* 325.0100 SY
0030	FRONTAGE ROAD	0+56 - 10+13	LT/RT	3,122
		TOTALS		3,122

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

ASPHALTIC ITEMS SUMMARY

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	* 455.0605 TACK COAT GAL	* 460.6223 HMA PAVEMENT 3 MT 58-28 S TON	* 460.6424 HMA PAVEMENT 4 MT 58-28 H TON
0030	FRONTAGE ROAD	0+56 - 10+13	LT/RT	156	393	306
		TOTALS		156	393	306

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CURB AND GUTTER SUMMARY

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	* 601.0411 30-INCH TYPE D LF
0030	FRONTAGE ROAD	0+56 - 10+13	LT/RT	204
			TOTALS	204

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

UTILITY CASTING ADJUSTMENTS

CATEGORY	PROJECT LOCATION	STATION	LOCATION	* 611.8110 ADJUSTING MANHOLE COVERS EACH	* 611.8115 ADJUSTING INLET COVERS EACH
0030	FRONTAGE ROAD	0+00 - 10+50	LT/RT	1	2
		SUBTOTALS		1	2
			TOTALS	1	2

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

EROSION CONTROL AND RESTORATION ITEMS

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	* 625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	* 629.0205 FERTILIZER TYPE A CWT	628.1504 SILT FENCE LF	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	630.0140 NO. 40 LB	* 631.0500 SEED WATER MGAL
0030	FRONTAGE ROAD	0+00 - 10+50	LT/RT	794	794	1.0	346	1,266	29	22
		UNDISTRIBUTED	---	---	---	---	---	---	---	---
		SUBTOTALS		794	794	1	346	1,266	29	22
			TOTALS	794	794	1	346	1,266	29	22

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

INLET PROTECTION

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	* 628.7010 TYPE B EACH	* 628.7020 TYPE D EACH
0030	FRONTAGE ROAD	0+00 - 10+50	RT/LT	6	6
		UNDISTRIBUTED		---	---
		TOTALS		6	6

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

MOVING SIGNS

CATEGORY	LOCATION	* 638.2102 EACH
0030	0+00 - 10+50	2

TRAFFIC CONTROL

CATEGORY	PROJECT LOCATION	DURATION	* 643.0420 TRAFFIC CONTROL BARRICADES TYPE III QTY	DAY	* 643.0900 TRAFFIC CONTROL SIGNS QTY	DAY
0030	FRONTAGE ROAD	30	11	30	3	30
	TOTALS			330		90

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONSTRUCTION STAKING

CATEGORY	LOCATION	* 650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	* 650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF
0030	FRONTAGE ROAD	203	960
	TOTALS	203	960

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

SAWING

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	* 690.0150 ASPHALT LF
0030	FRONTAGE ROAD	0+56 - 10+13	RT/LT	356
		TOTAL		356

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTES:
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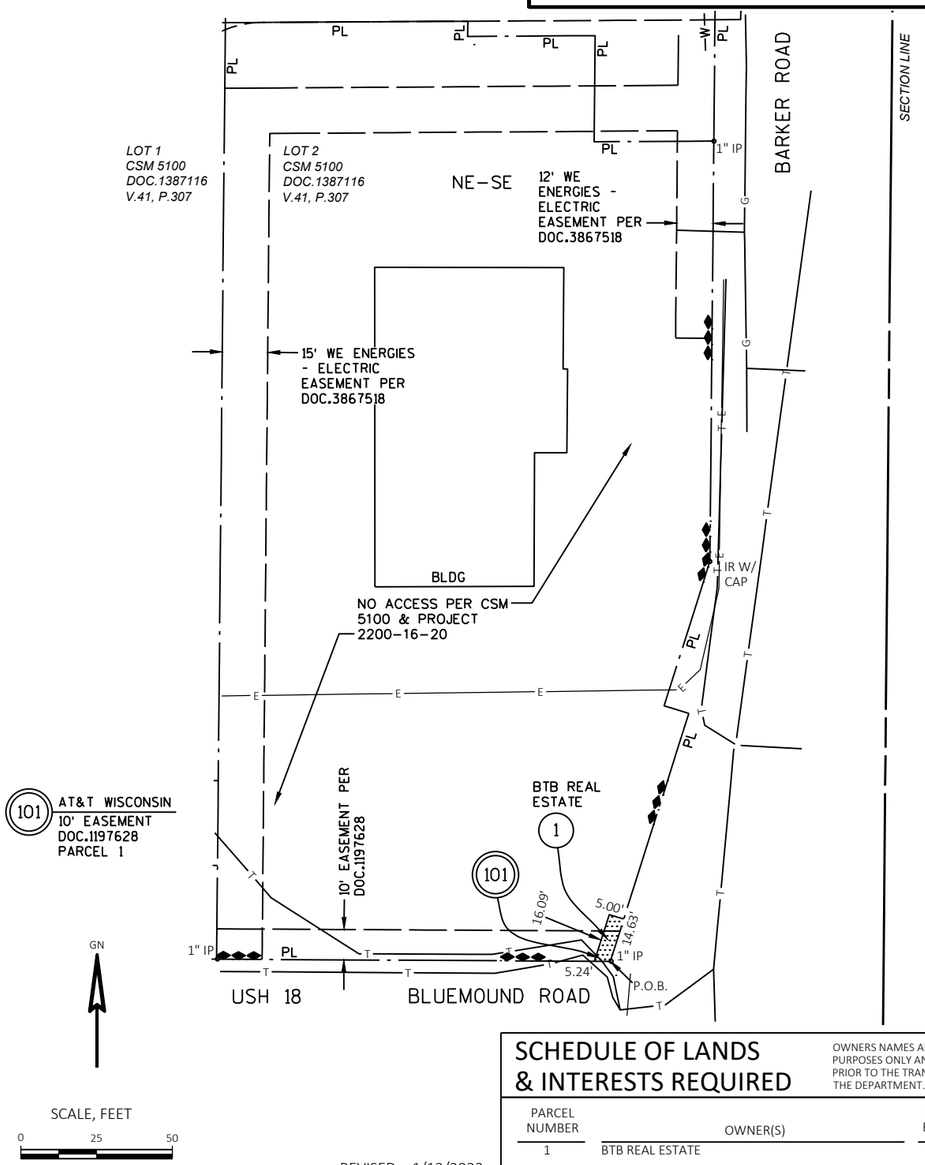
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.01

TLE ACQUISITION EXHIBIT
TOWN OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 30, T7N, R20E, TOWN OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
1	BTB REAL ESTATE	TLE	77

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
101	AT&T WISCOSIN	RELEASE OF RIGHTS

REVISED 1/12/2023
REVISED 04/13/2022

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

NOTES:
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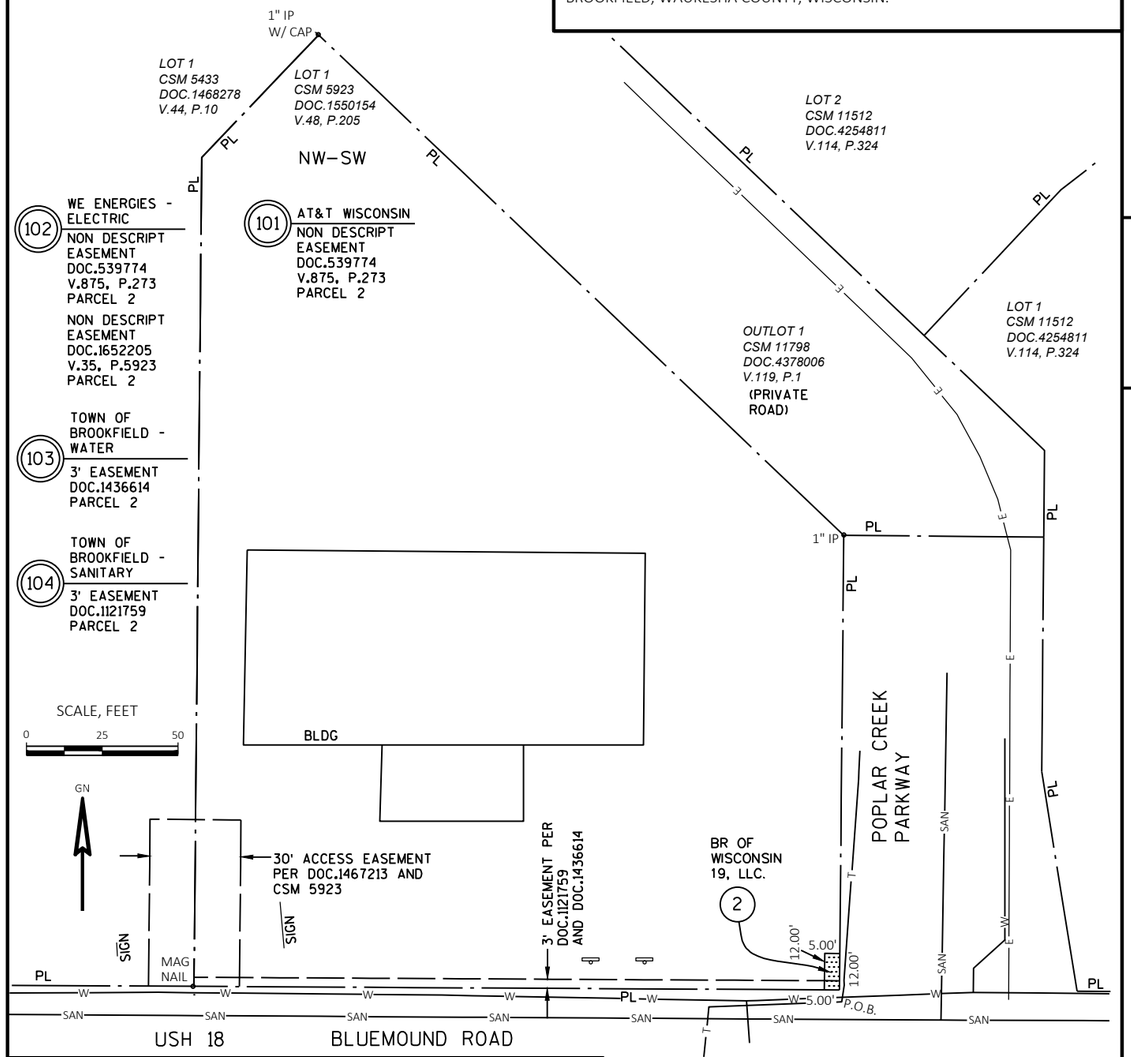
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.02

TLE ACQUISITION EXHIBIT
TOWN OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NW 1/4 OF THE SW 1/4 OF SECTION 29, T7N, R20E, TOWN OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
2	BR OF WISCONSIN 19, LLC.	TLE	60

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
101	AT&T WISCOSIN	RELEASE OF RIGHTS
102	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
103	TOWN OF BROOKFIELD - WATER	RELEASE OF RIGHTS
104	TOWN OF BROOKFIELD - SANITARY	RELEASE OF RIGHTS

REVISED 1/12/2023
REVISED 04/13/2022

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

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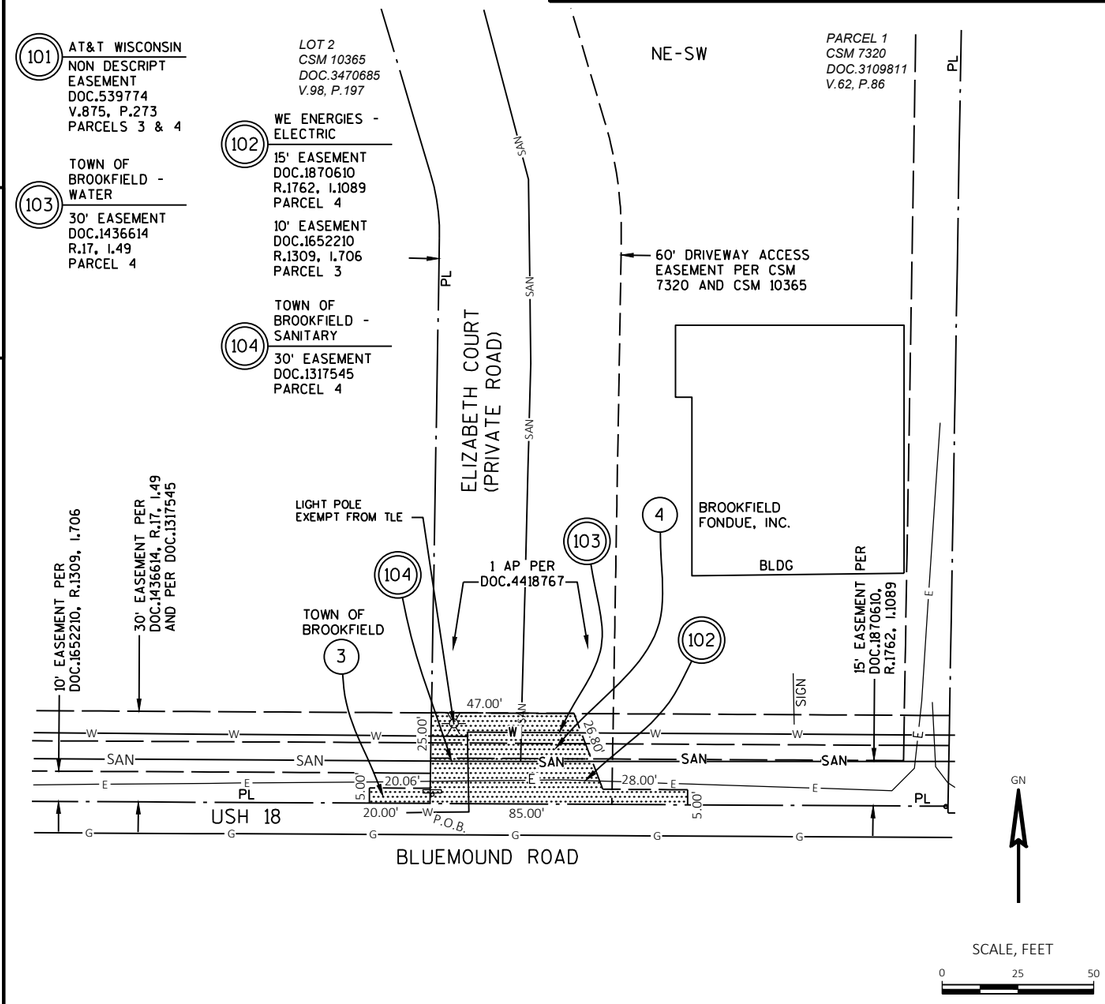
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.03

TLE ACQUISITION EXHIBIT
TOWN OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NE 1/4 OF THE SW 1/4 OF SECTION 29, T7N, R20E, TOWN OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
3	TOWN OF BROOKFIELD	TLE	100
4	BROOKFIELD FONDUE, INC.	TLE	1724

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
101	AT&T WISCOSIN	RELEASE OF RIGHTS
102	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
103	TOWN OF BROOKFIELD - WATER	RELEASE OF RIGHTS
104	TOWN OF BROOKFIELD - SANITARY	RELEASE OF RIGHTS

REVISED 1/12/2023
REVISED 04/13/2022

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

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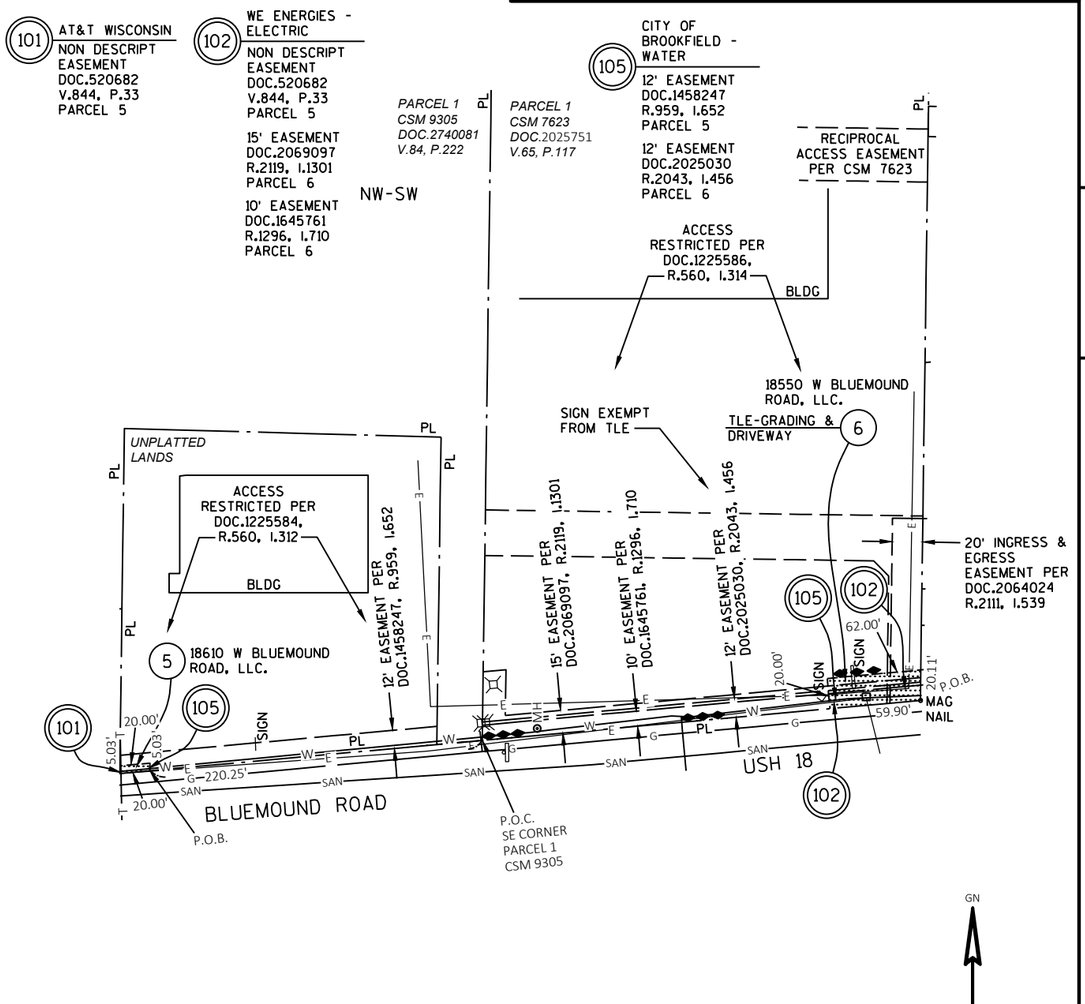
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.04

TLE ACQUISITION EXHIBIT
CITY OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NW 1/4 OF THE SW 1/4 OF SECTION 28, T7N, R20E, CITY OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
5	18610 W BLUEMOUND ROAD, LLC.	TLE	100
6	18550 W BLUEMOUND ROAD, LLC.	TLE	1219

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
101(2)	AT&T WISCOSIN	RELEASE OF RIGHTS
102	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
105	CITY OF BROOKFIELD - WATER	RELEASE OF RIGHTS

REVISED 1/12/2023
REVISED 04/13/2022

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

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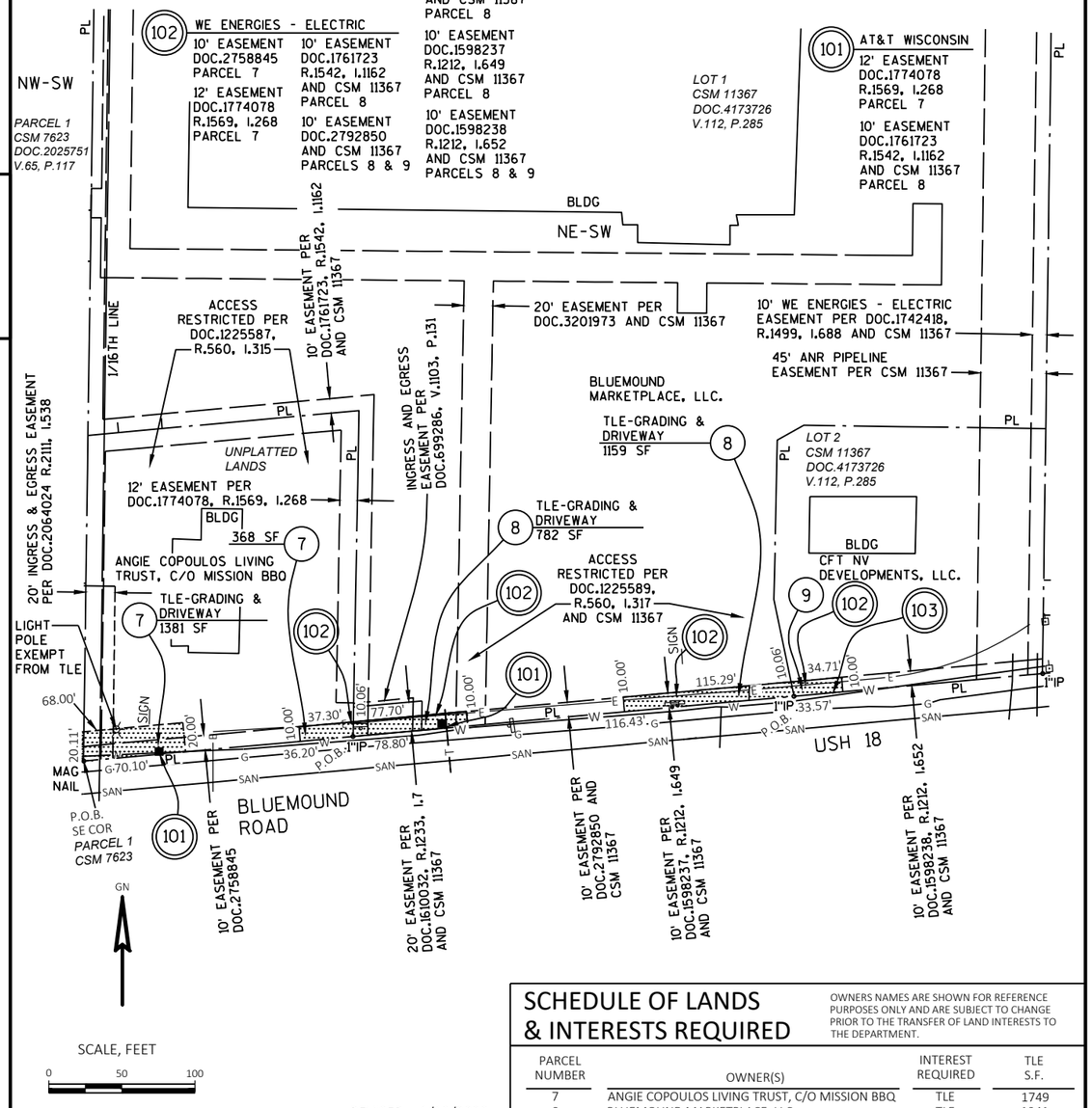
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.05

TLE ACQUISITION EXHIBIT
TOWN OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NW 1/4 AND NE 1/4 OF THE SW 1/4 OF SECTION 28, T7N, R20E, TOWN OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
7	ANGIE COPOULOS LIVING TRUST, C/O MISSION BBQ	TLE	1749
8	BLUEMOUND MARKETPLACE, LLC.	TLE	1941
9	CFT NV DEVELOPMENTS, LLC.	TLE	341

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
101	AT&T WISCOSIN	RELEASE OF RIGHTS
102	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
103(3)	TOWN OF BROOKFIELD - WATER	RELEASE OF RIGHTS

REVISED 1/12/2023
REVISED 04/13/2022

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

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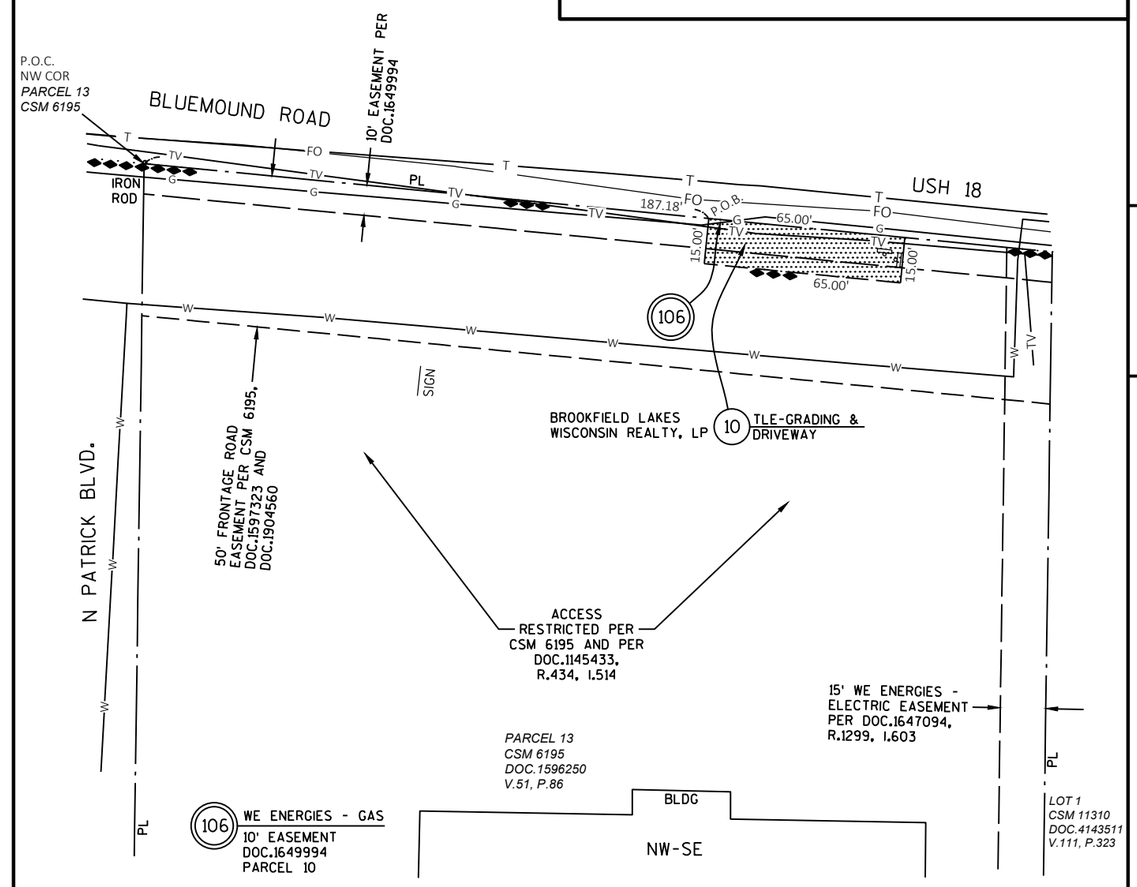
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.06

TLE ACQUISITION EXHIBIT
CITY OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NW 1/4 OF THE SE 1/4 OF SECTION 28, T7N, R20E, CITY OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
10	BROOKFIELD LAKES WISCONSIN REALTY, LP	TLE	975

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
106	WE ENERGIES - GAS	RELEASE OF RIGHTS
107(2)	ELIMINATED	

REVISED 1/12/2023
REVISED 04/13/2022

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

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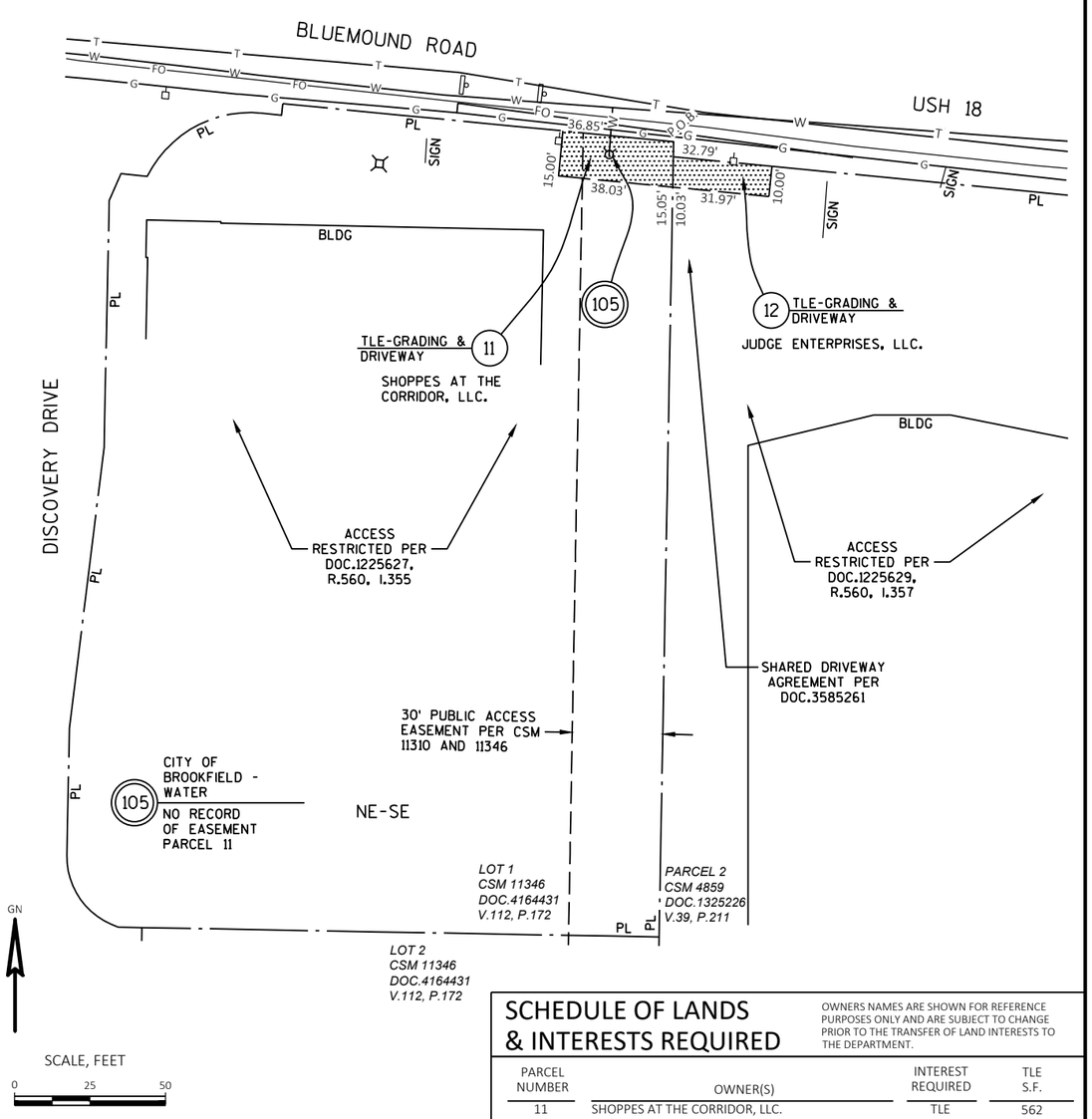
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.07

TLE ACQUISITION EXHIBIT
CITY OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 28, T7N, R20E, CITY OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



REVISED 1/12/2023
REVISED 04/13/2022

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
11	SHOPPES AT THE CORRIDOR, LLC.	TLE	562
12	JUDGE ENTERPRISES, LLC.	TLE	324

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
105	CITY OF BROOKFIELD - WATER	RELEASE OF RIGHTS

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

FILE NAME : TLE EXHIBIT 7 AND 8.DWG PLOT DATE : 12/12/2022 10:22 AM R/W PROJECT: 2200-20-20 -7

4

NOTES:
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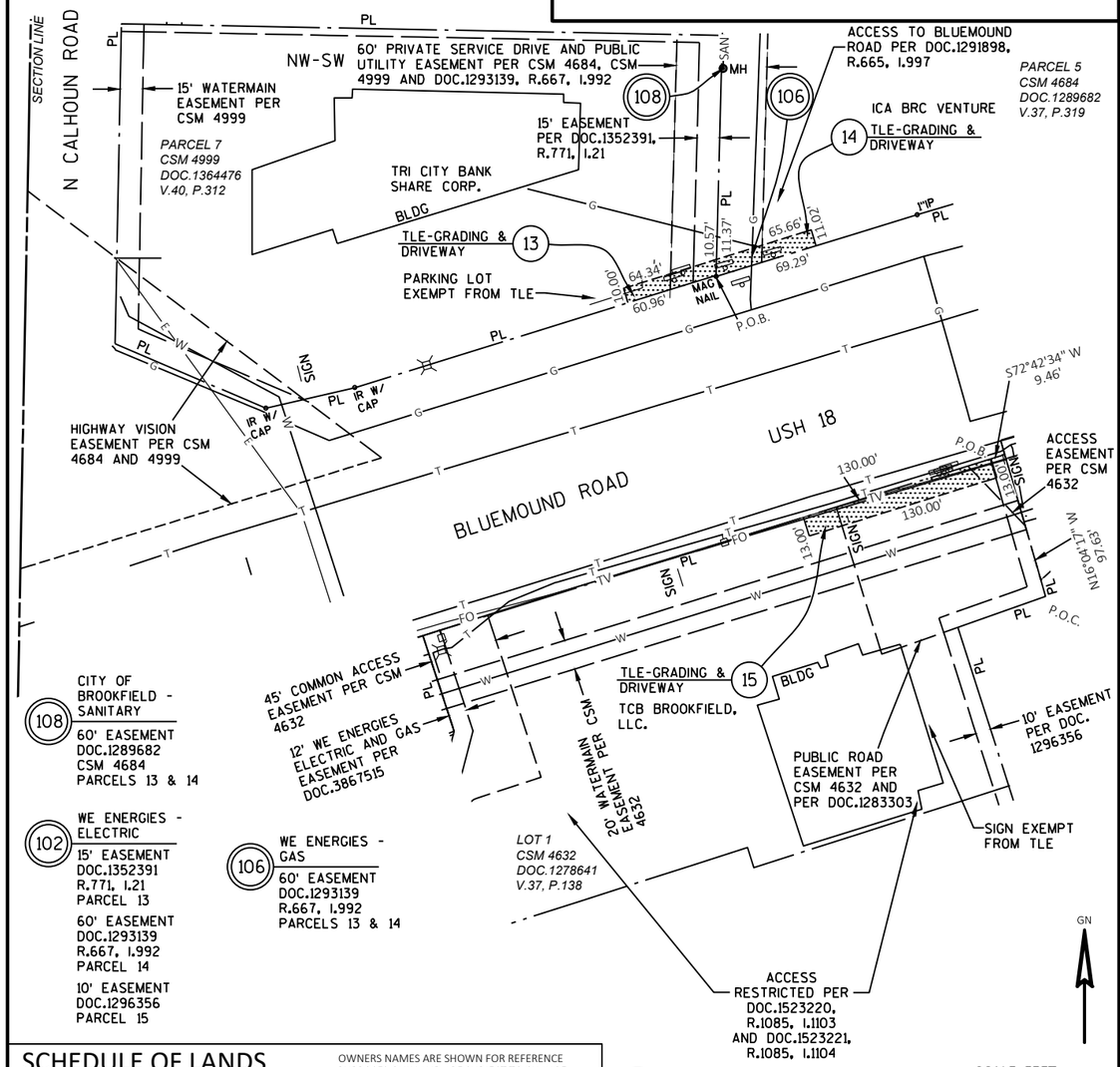
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.08

TLE ACQUISITION EXHIBIT
CITY OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NW 1/4 OF THE SW 1/4 OF SECTION 27, T7N, R20E, CITY OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



108 CITY OF BROOKFIELD - SANITARY
60' EASEMENT DOC.1289682 CSM 4684 PARCELS 13 & 14

102 WE ENERGIES - ELECTRIC
15' EASEMENT DOC.1352391 R.771, I.21 PARCEL 13
60' EASEMENT DOC.1293139 R.667, I.992 PARCEL 14
10' EASEMENT DOC.1296356 PARCEL 15

106 WE ENERGIES - GAS
60' EASEMENT DOC.1293139 R.667, I.992 PARCELS 13 & 14

101 AT&T WISCONSIN
15' EASEMENT DOC.1352391 R.771, I.21 PARCEL 13
60' EASEMENT DOC.1293139 R.667, I.992 PARCEL 14

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
13	TRI CITY BANK SHARE CORP.	TLE	627
14	ICA BRC VENTURE	TLE	735
15	TCB BROOKFIELD, LLC.	TLE	1690

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
101(2)	AT&T WISCONSIN	RELEASE OF RIGHTS
102	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
106	WE ENERGIES - GAS	RELEASE OF RIGHTS
107(2)	ELIMINATED	-
108(3)	CITY OF BROOKFIELD - SANITARY	RELEASE OF RIGHTS

REVISED 1/12/2023
REVISED 04/13/2022

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

FILE NAME : TLE EXHIBIT 7 AND 8.DWG PLOT DATE : 12/12/2022 10:22 AM R/W PROJECT: 2200-20-20 -8

4

NOTES:
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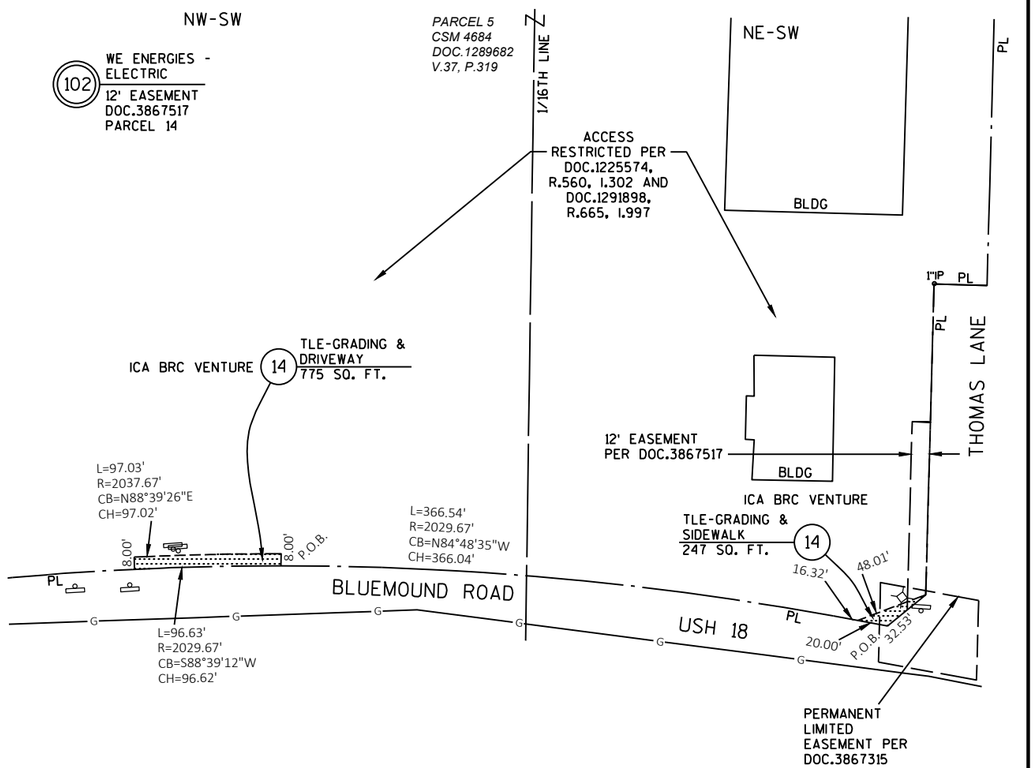
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.09

TLE ACQUISITION EXHIBIT
CITY OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NW 1/4 AND NE 1/4 OF THE SW 1/4 OF SECTION 27, T7N, R20E, CITY OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

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PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
14	ICA BRC VENTURE	TLE	1022

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
102	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS

REVISED 1/12/2023
REVISED 04/13/2022

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

FILE NAME : TLE EXHIBIT 9 AND 10.DWG PLOT DATE : 12/12/2022 10:26 AM R/W PROJECT: 2200-20-20 -9

4

NOTES:
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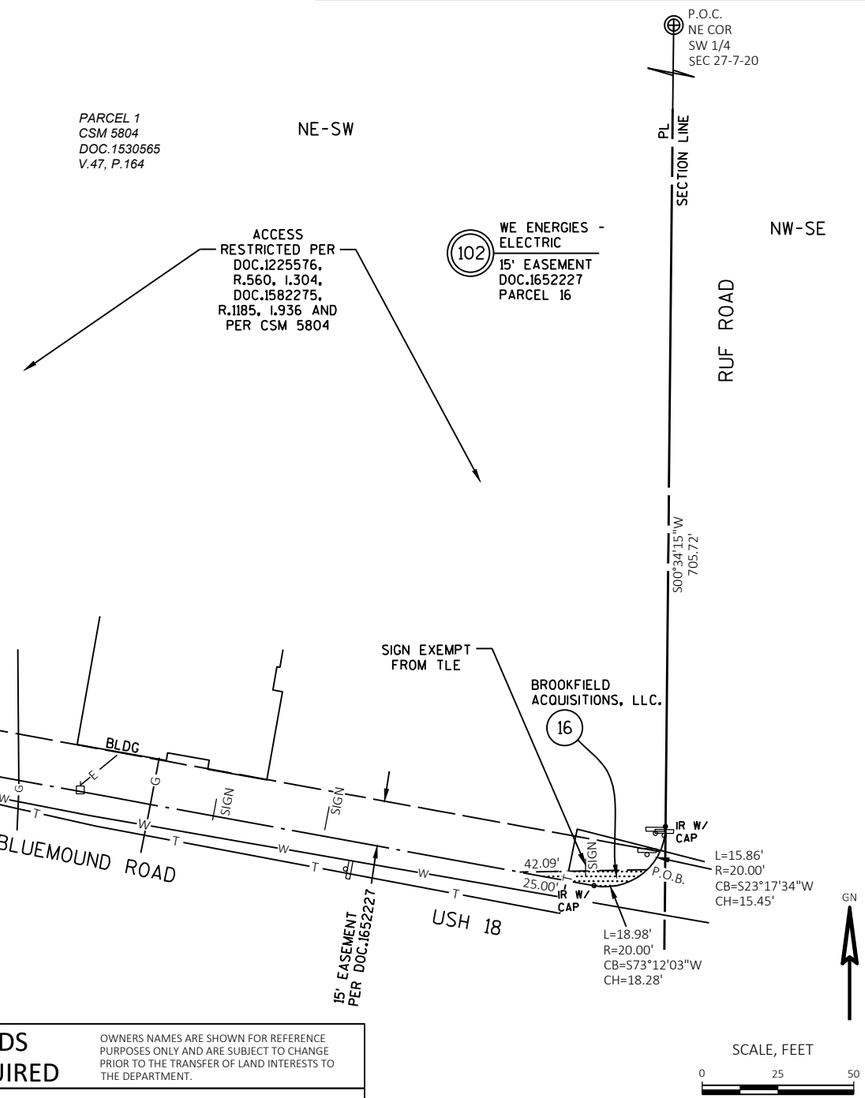
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R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.10

TLE ACQUISITION EXHIBIT
CITY OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NE 1/4 OF THE SW 1/4 OF SECTION 27, T7N, R20E, CITY OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
16	BROOKFIELD ACQUISITIONS, LLC.	TLE	132

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
101(2)	ELIMINATED	-
102	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS

REVISED 1/12/2023
REVISED 04/13/2022

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

FILE NAME : TLE EXHIBIT 9 AND 10.DWG PLOT DATE : 12/12/2022 10:26 AM R/W PROJECT: 2200-20-20-10

4

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

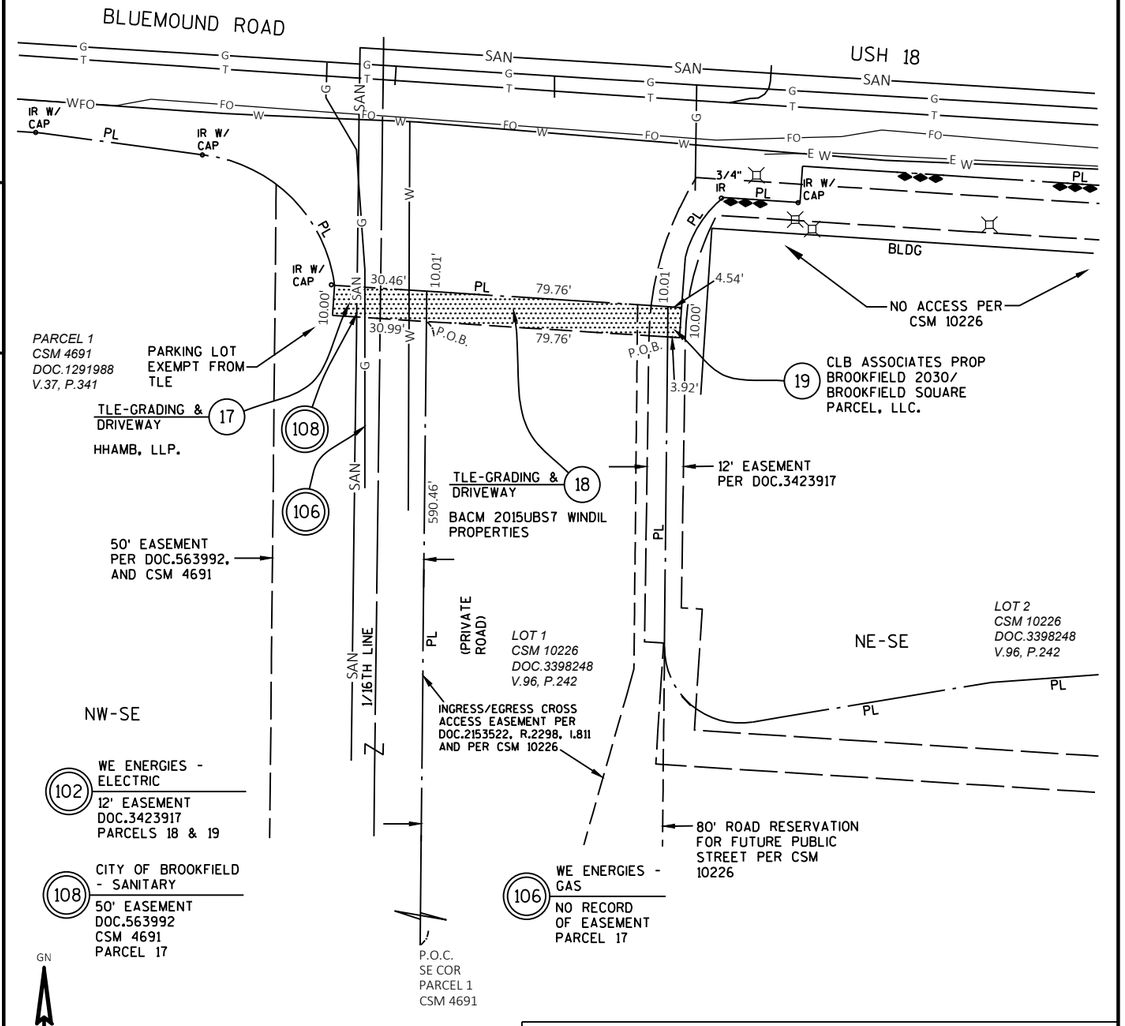
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.11

TLE ACQUISITION EXHIBIT
CITY OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NW 1/4 AND NE 1/4 OF THE SE 1/4 OF SECTION 27, T7N, R20E, CITY OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



REVISED 1/12/2023
REVISED 04/13/2022

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
17	HHAMB, LLP.	TLE	307
18	BACM 2015UBS7 WINDIL PROPERTIES	TLE	798
19	CBL ASSOCIATES PROP BROOKFIELD 2030/ BROOKFIELD SQUARE PARCEL, LLC.	TLE	42

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
102	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
105(2)	ELIMINATED	-
106	WE ENERGIES - GAS	RELEASE OF RIGHTS
108	CITY OF BROOKFIELD - SANITARY	RELEASE OF RIGHTS

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

NOTES:
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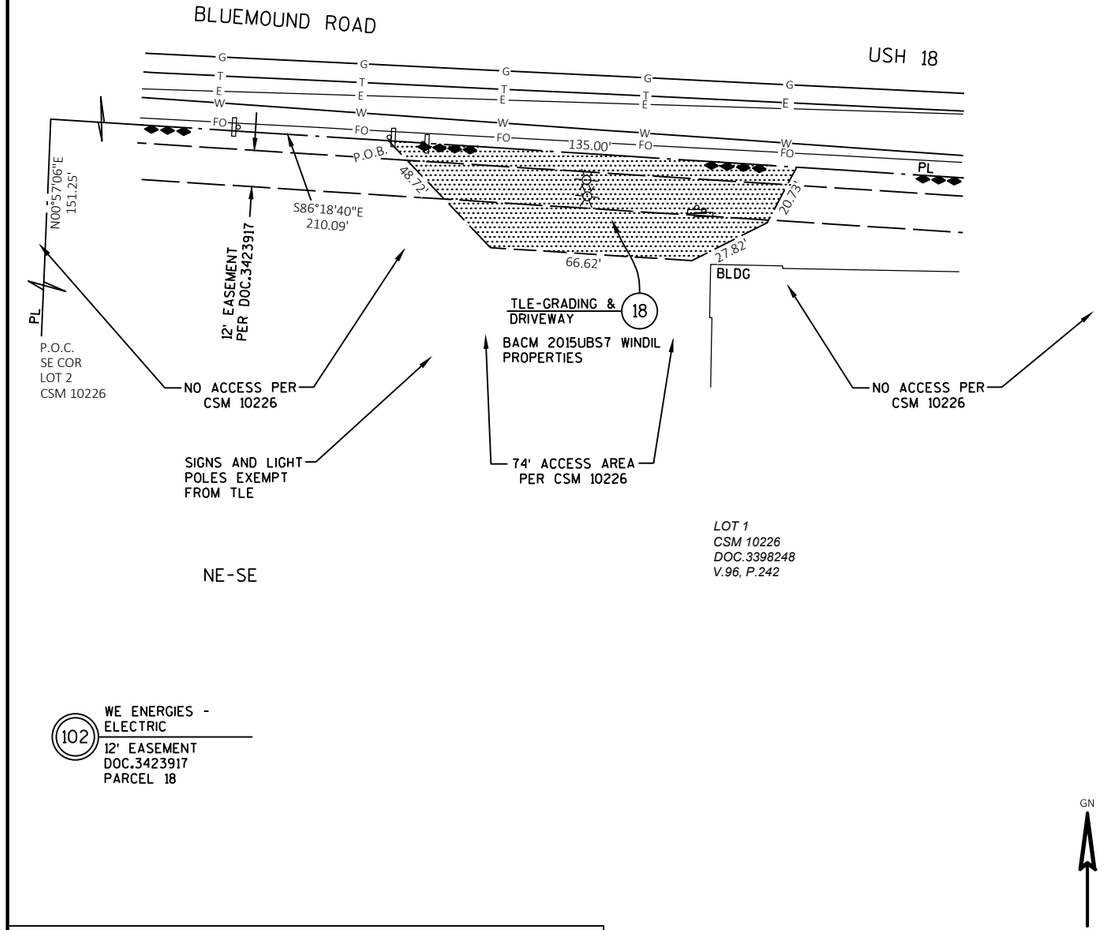
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.12

TLE ACQUISITION EXHIBIT
CITY OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 27, T7N, R20E, CITY OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



REVISED 1/12/2023
REVISED 04/13/2022

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
18	BACM 2015UBS7 WINDIL PROPERTIES	TLE	3,492

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
102	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

NOTES:
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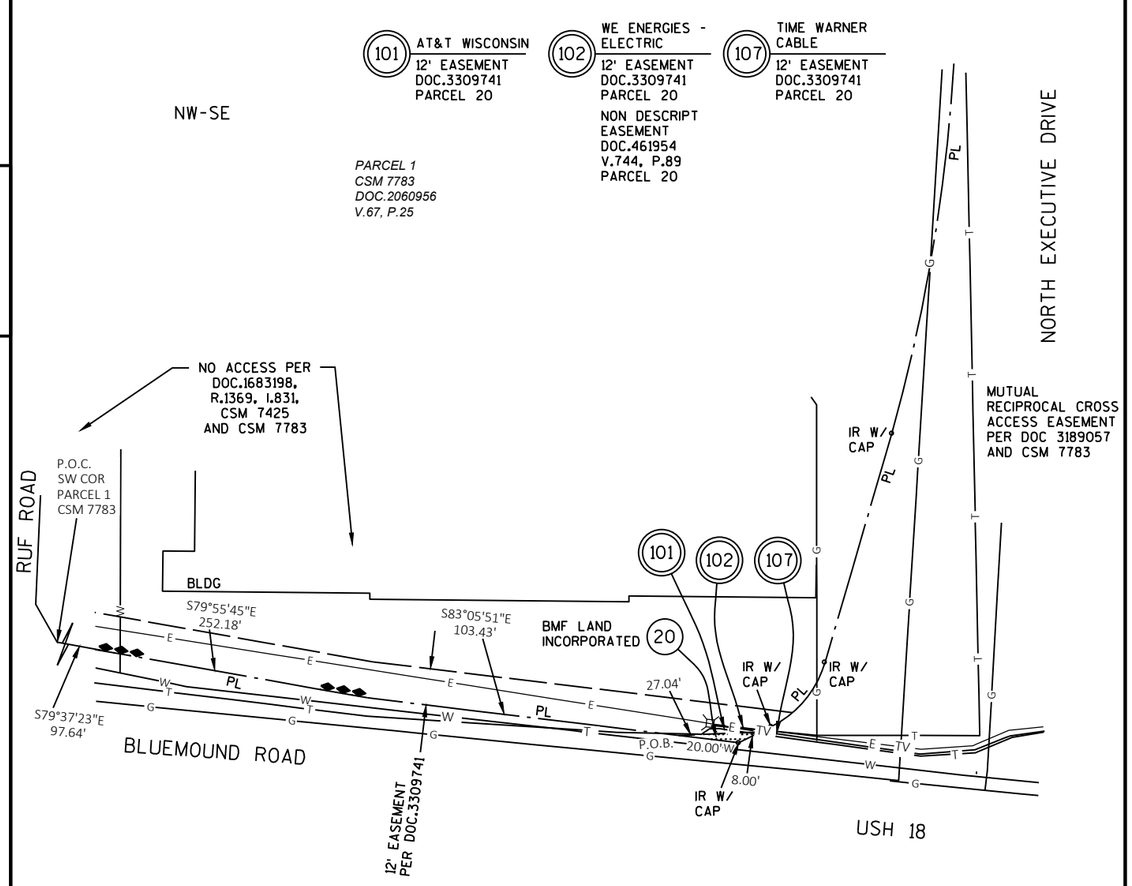
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.13

TLE ACQUISITION EXHIBIT
CITY OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NW 1/4 OF THE SE 1/4 OF SECTION 27, T7N, R20E, CITY OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
20	BMF LAND INCORPORATED	TLE	44

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
101	AT&T WISCONSIN	RELEASE OF RIGHTS
102	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
107	TIME WARNER CABLE	RELEASE OF RIGHTS

REVISED 1/12/2023
REVISED 04/13/2022

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

FILE NAME : TLE EXHIBIT 13 AND 14.DWG PLOT DATE : 12/12/2022 10:35 AM R/W PROJECT: 2200-20-20 -13

4

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

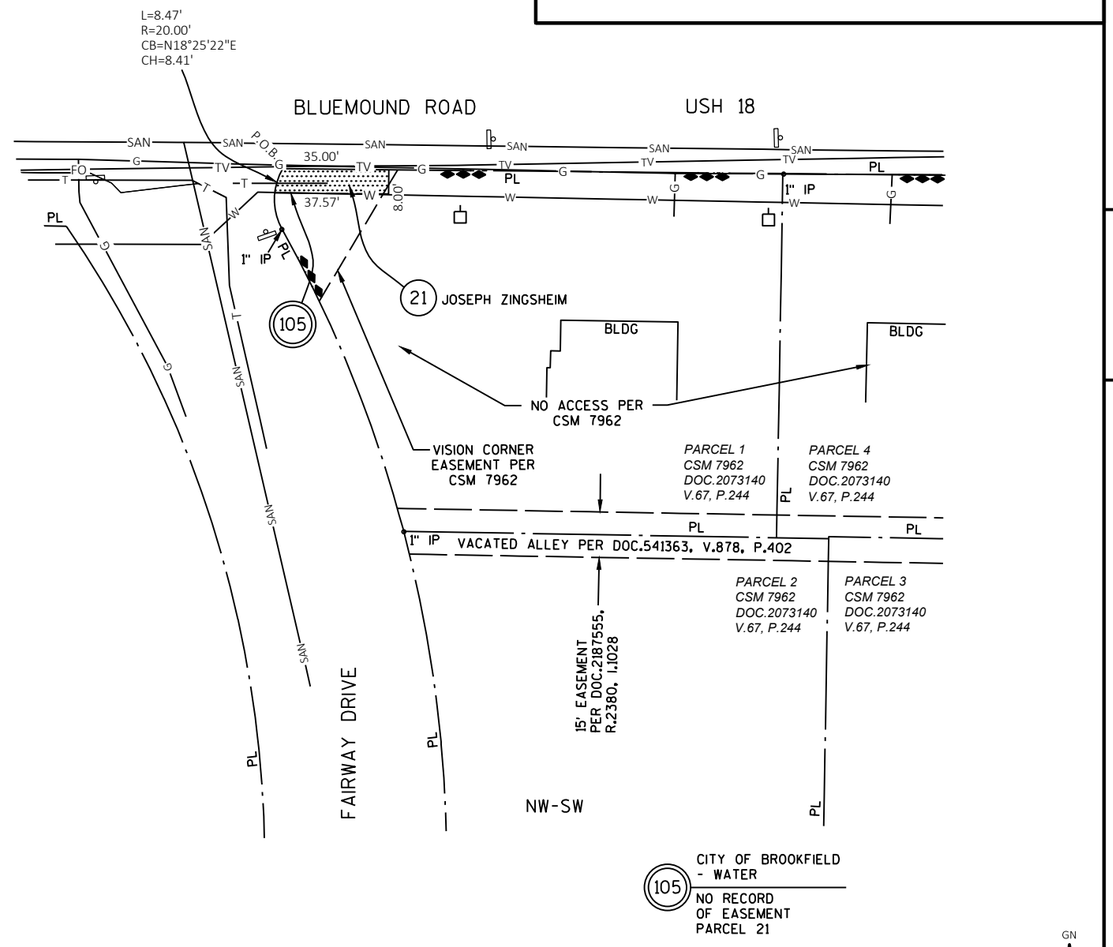
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.14

TLE ACQUISITION EXHIBIT
CITY OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NW 1/4 OF THE SW 1/4 OF SECTION 26, T7N, R20E, CITY OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
21	JOSEPH ZINGSHEIM	TLE	293

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
101(2)	ELIMINATED	-
105	CITY OF BROOKFIELD - WATER	RELEASE OF RIGHTS

REVISED 1/12/2023
REVISED 04/13/2022

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

FILE NAME : TLE EXHIBIT 13 AND 14.DWG PLOT DATE : 12/12/2022 10:35 AM R/W PROJECT: 2200-20-20 -14

4

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

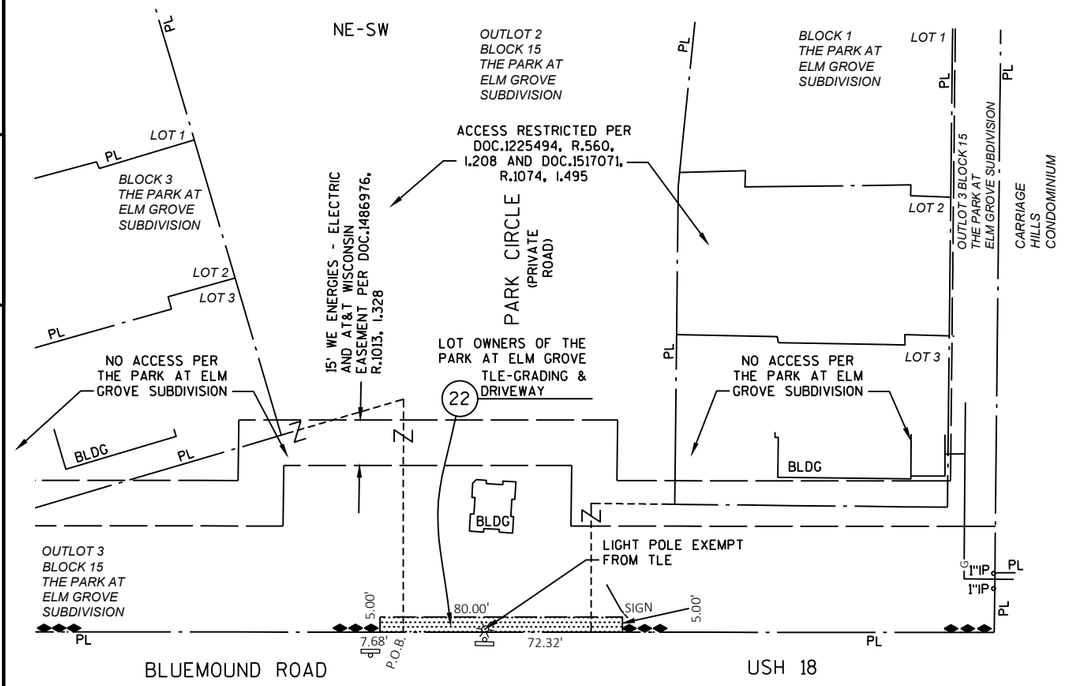
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.15

TLE ACQUISITION EXHIBIT
VILLAGE OF ELM GROVE, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NE 1/4 OF THE SW 1/4 OF SECTION 25, T7N, R20E, VILLAGE OF ELM GROVE, WAUKESHA COUNTY, WISCONSIN.



101 AT&T WISCONSIN
NON DESCRIPT EASEMENT
DOC.1554498
R.1138, I.783
PARCEL 22

102 WE ENERGIES - ELECTRIC
NON DESCRIPT EASEMENT
DOC.1554498
R.1138, I.783
PARCEL 22

GN

SCALE, FEET
0 25 50

REVISED 1/12/2023
REVISED 04/13/2022

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
22	LOT OWNERS OF THE PARK AT ELM GROVE	TLE	400

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
101	AT&T WISCONSIN	RELEASE OF RIGHTS
102	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

FILE NAME : TLE EXHIBIT 15 AND 16.DWG PLOT DATE : 12/12/2022 10:38 AM R/W PROJECT: 2200-20-20 -15

4

NOTES:
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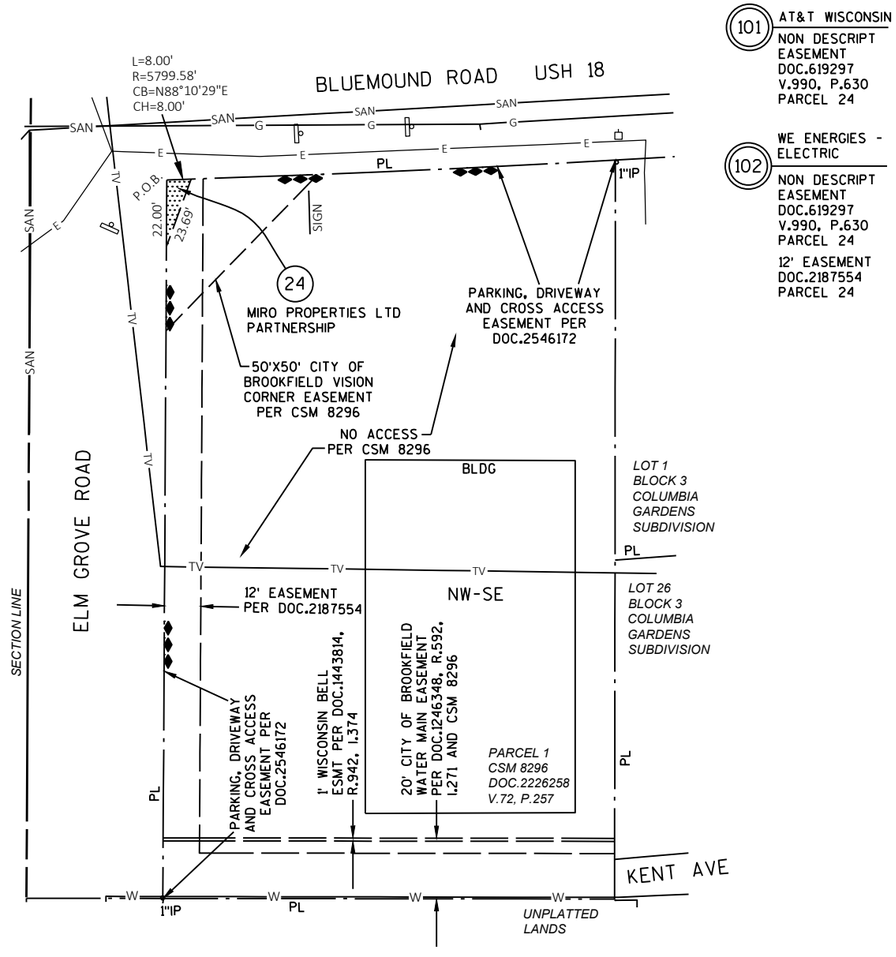
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.16

TLE ACQUISITION EXHIBIT
CITY OF BROOKFIELD, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 WAUKESHA COUNTY

PART OF THE NW 1/4 OF THE SE 1/4 OF SECTION 25, T7N, R20E, CITY OF BROOKFIELD, WAUKESHA COUNTY, WISCONSIN.



101 AT&T WISCONSIN
NON DESCRIPT EASEMENT
DOC.619297
V.990, P.630
PARCEL 24

102 WE ENERGIES - ELECTRIC
NON DESCRIPT EASEMENT
DOC.619297
V.990, P.630
PARCEL 24

12' EASEMENT
DOC.2187554
PARCEL 24

GN

SCALE, FEET
0 25 50

REVISED 1/12/2023
REVISED 04/13/2022

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
24	MIRO PROPERTIES LTD PARTNERSHIP	TLE	88

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
101	AT&T WISCONSIN	RELEASE OF RIGHTS
102	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

FILE NAME : TLE EXHIBIT 15 AND 16.DWG PLOT DATE : 12/12/2022 10:38 AM R/W PROJECT: 2200-20-20 -16

4

NOTES:
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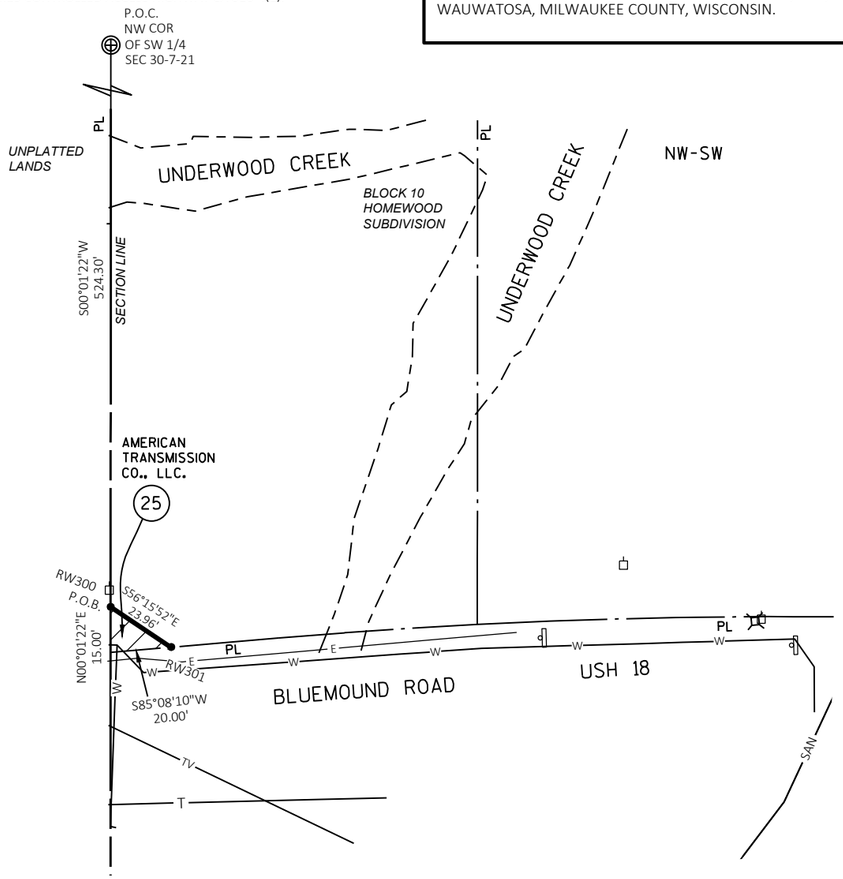
PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.17

FEE ACQUISITION EXHIBIT
CITY OF WAUWATOSA, BLUEMOUND ROAD
WAUKESHA COUNTY - IH 94 TO EAST COUNTY LINE
USH 18 MILWAUKEE COUNTY

PART OF THE NW 1/4 OF THE SW 1/4 OF SECTION 30, T7N, R21E, CITY OF WAUWATOSA, MILWAUKEE COUNTY, WISCONSIN.



GN

SCALE, FEET
0 25 50

REVISED 1/12/2023
REVISED 04/13/2022

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: Robert L Duffeck DATE: 02/22/2022

PRINT NAME: Robert L. Duffeck

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.
25	AMERICAN TRANSMISSION CO., LLC.	FEE	149

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
109(2)	ELIMINATED	-

4

NOTES:
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PURPOSE FOR ALL TLE'S IS FOR GRADING, UNLESS OTHERWISE NOTED.

USH 18 IS AN 84.25 CONTROLLED ACCESS HIGHWAY CA 016-4(1).

R/W PROJECT NUMBER: 2200-20-20	EXHIBIT NUMBER:4.18

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SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE S.F.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED

GN

SCALE, FEET
0 25 50

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - WAUKESHA

SIGNATURE: _____ DATE: _____

PRINT NAME: _____

560

4

PLANS PERTAINING TO THE FRONTAGE ROAD WERE PREPARED BY STRAND.

WISCONSIN
JUSTIN J GUTOSKI
E-43032
MADISON
WI
PROFESSIONAL ENGINEER
1-30-23

ITEMS PAID UNDER CATEGORY 0030

N

0 10' 20' 40' 80'

END PROPOSED DITCH

START PROPOSED DITCH

30-IN CURB AND GUTTER

MATCH INTO EXISTING PAVEMENT

MATCH INTO EXISTING PAVEMENT

PAVEMENT TAPER
STA 2+94.83, -12.00' LT

IP

10-FT

3-FT CURB TAPER
STA 1+62.62, 11.93' RT

FRONTAGE RD

12-FT TYP.

MATCHLINE STA. 5+50

PROPOSED DITCH (TYP.)

CONNECT TO EXISTING CURB AND GUTTER

SLOPE INTERCEPT (TYP.)

CONNECT TO EXISTING CURB AND GUTTER

REMOVE EXISTING CONCRETE ISLAND

PROTECT EXISTING TREE (TYP.)

3-FT CURB TAPER
STA 2+50.66, 12.50' RT

SILT FENCE (TYP.)

EXISTING FIBER

EXISTING WATER

EXISTING ELECTRIC

EXISTING SIGN (TO REMAIN)

BLUEMOUND RD

LEGEND:

- IP INLET PROTECTION
- SILT FENCE
- 6-INCHES TOPSOIL, WISDOT NO. 40 SEED MIX, AND EROSION MAT URBAN CLASS I TYPE A

PROPOSED ROADWAY CENTERLINE PROFILE

EXISTING ROADWAY CENTERLINE PROFILE

STA 0+56.54
EL 848.35

VPC STA 1+42.55
VPC EL 851.56

VPI STA 1+80.04
VPI EL 852.96

VPT STA 2+17.54
VPT EL 853.45

STA 2+43.75
EL 853.79

STA 3+70.57
EL 854.79

STA 4+75.99
EL 855.69

3.73%

1.30%

0.79%

0.86%

0.47%

VCL = 75.00
K = 30.81

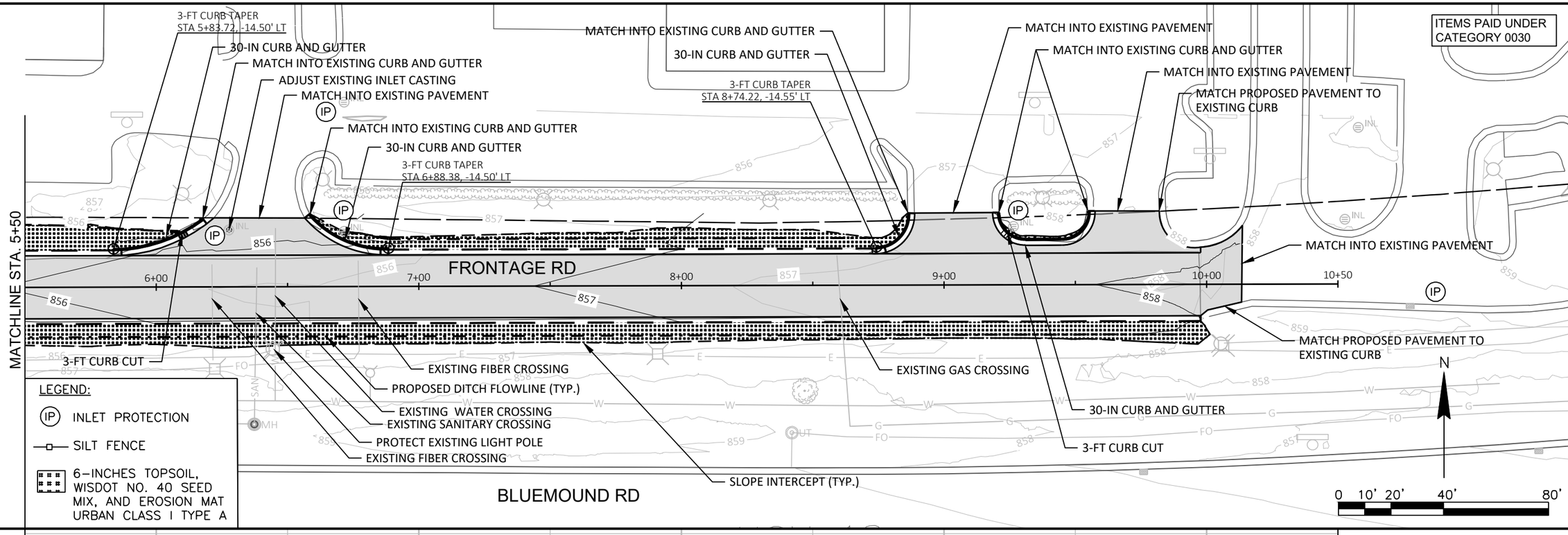
848.12	848.34	849.46	849.97	851.54	851.83	852.64	853.17	853.42	853.84	853.61	854.23
854.11	854.63	854.68	855.04	855.06	855.47	855.42	855.81	855.68	856.04		

0+00 1+00 2+00 3+00 4+00 5+00 5+50

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN AND PROFILE: PLAN AND PROFILE AND EROSION CONTROL	SHEET E

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050101-pp

PLOT DATE : 1/30/2023 9:39 AM PLOT BY : DECENT, ZACH PLOT NAME : PLOT SCALE : 1 IN:40 FT



5

5

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PLAN AND PROFILE: PLAN AND PROFILE AND EROSION CONTROL	SHEET 562	E

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050102-pp

PLOT DATE : 1/30/2023 9:39 AM PLOT BY : DECENT, ZACH PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

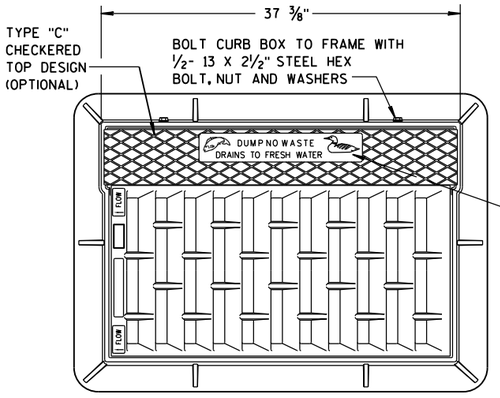
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08B09-03	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-10	CONDUIT
09B04-12	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09E01-15B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-09B	TYPE 9 SPECIAL POLE 35' MONOTUBE ARM
09E08-09C	TYPE 9 SPECIAL POLE 40' MONOTUBE ARM
09E08-09I	TYPE 12 POLE 35'-55' MONOTUBE ARM
09E08-09K	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
11B02-02	CONCRETE MEDIAN NOSE
13C14-07A	BASE PATCHING CONCRETE
13C14-07B	BASE PATCHING CONCRETE
13C14-07C	BASE PATCHING CONCRETE
13C19-03	HMA LONGITUDINAL JOINTS
15A04-07A	FLEXIBLE DELINEATOR POST
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15E	PAVEMENT MARKING FOR BIKE LANES
15C08-22A	LONGITUDINAL MARKING (MAINLINE)
15C08-22B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-22C	PAVEMENT MARKING (TURN LANES)
15C08-22D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-07A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-07B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C18-07C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-07C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C20-02	YIELD MARKING
15C29-07A	BICYCLE LANE MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15D12-10A	TRAFFIC CONTROL, LANE CLOSURE

6

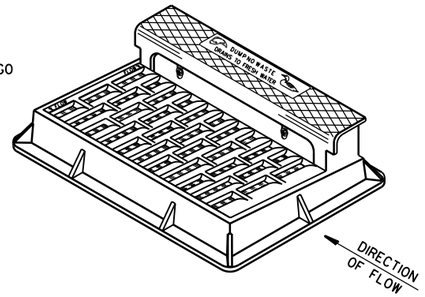
Standard Detail Drawing List

15D15-06E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D20-06A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D22-05	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D23-07A	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D23-07B	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D30-08A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-08C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-08J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D40-04A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D41-02	TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTILANE DIVIDED ROAD

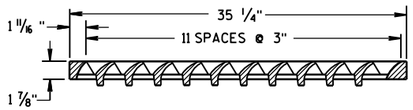
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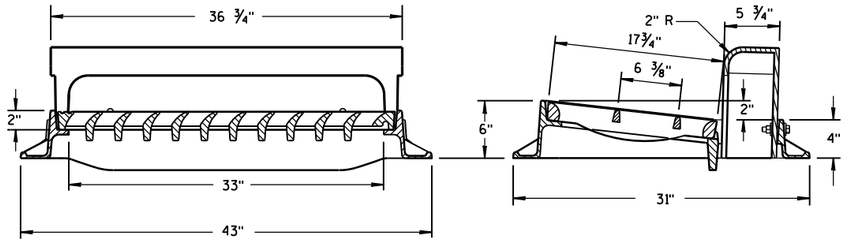


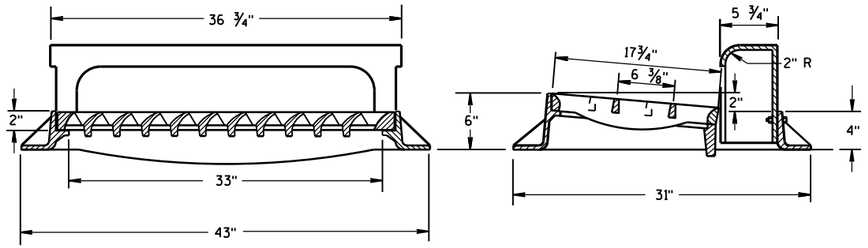
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

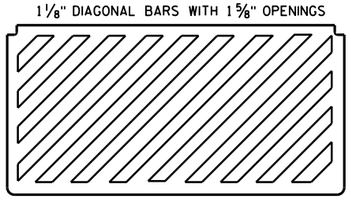






TYPE "H"

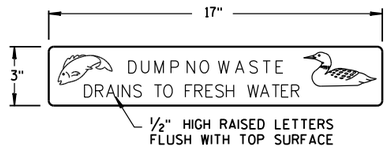
NOTE: EITHER CASTING IS ACCEPTABLE



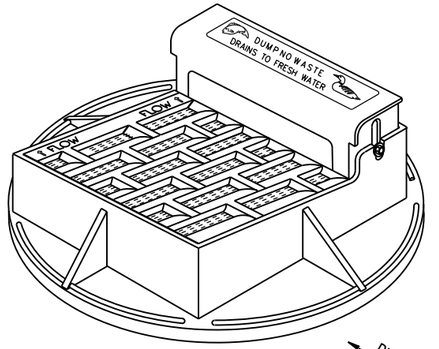
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

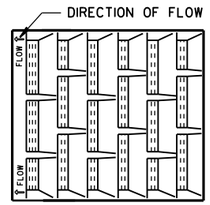
NOTE:
GRATE IS REVERSIBLE.

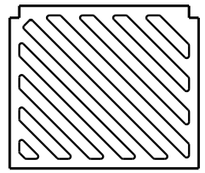
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

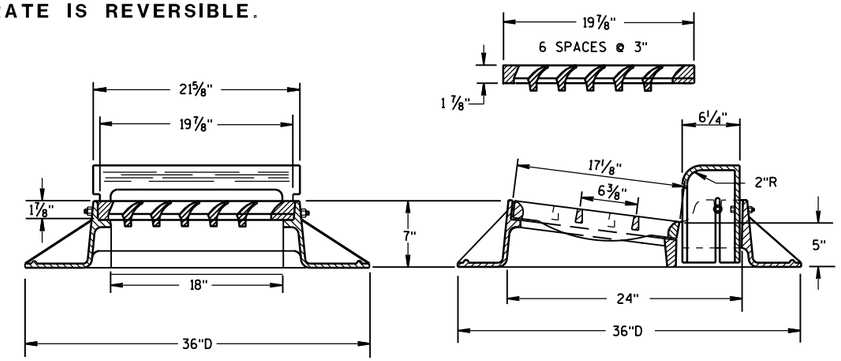




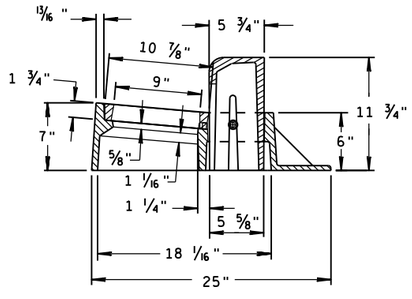
SPECIAL GRATE FOR TYPE "A" COVER

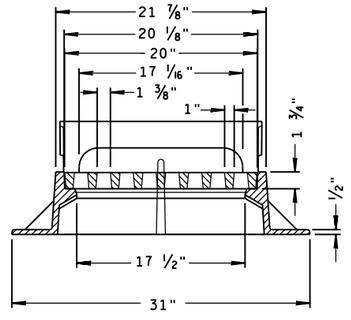
(MEASURES 19 3/4" X 17" X 1 7/8")

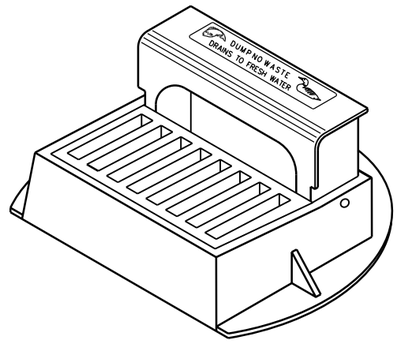
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

INLET COVERS
TYPE A, H, A-S, H-S & Z

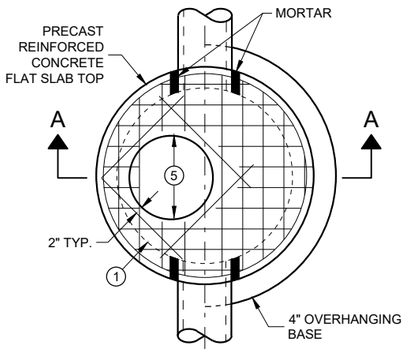
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

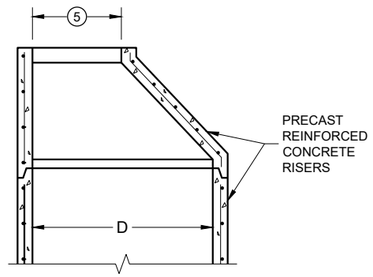
FHWA

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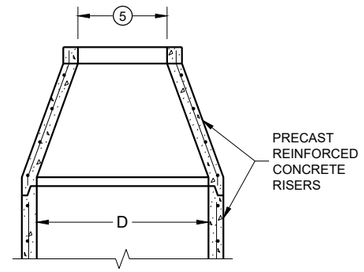
S.D.D. 8 A 5-19a



PLAN VIEW
CIRCULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42*	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

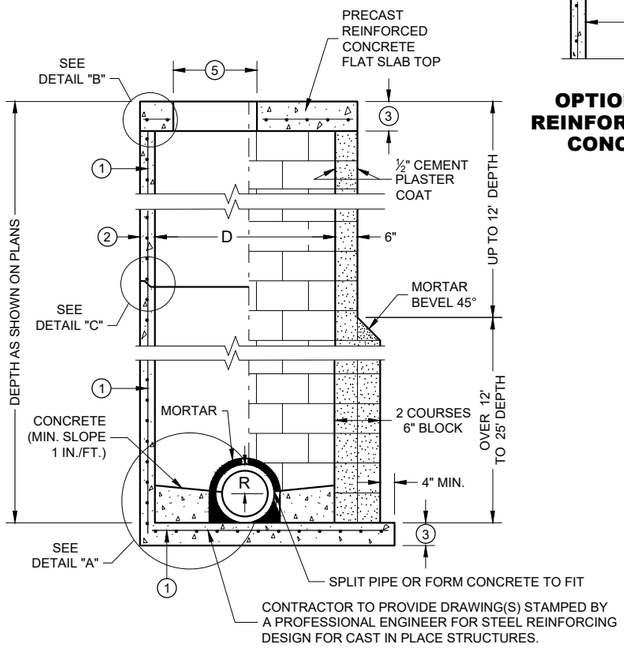
(1) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP.).

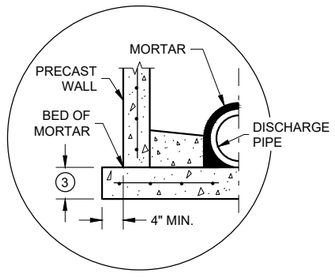
(5) SEE MANHOLE COVER OPENING MATRIX.



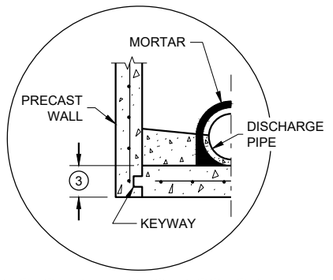
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

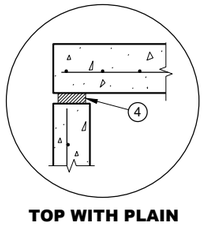


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

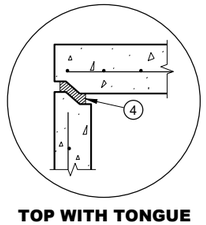


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

DETAIL "A"

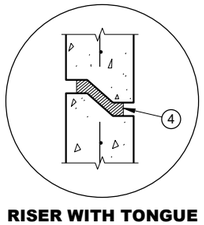


TOP WITH PLAIN END JOINT



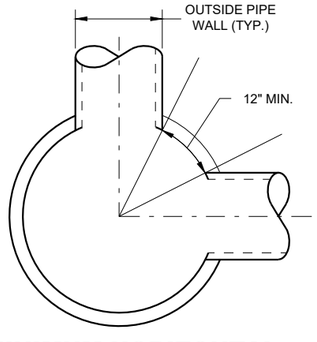
TOP WITH TONGUE AND GROOVE JOINT

DETAIL "B"



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "C"



MINIMUM HORIZONTAL PIPE SEPARATION

MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

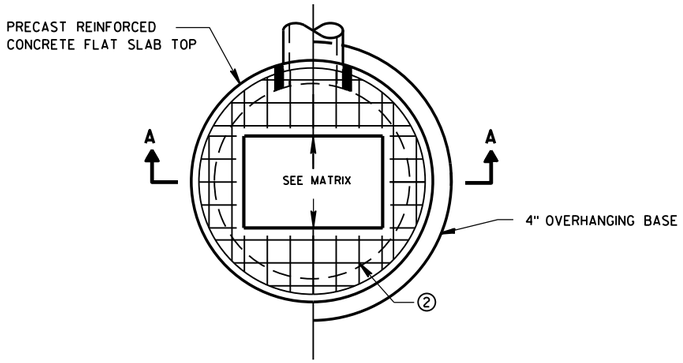
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

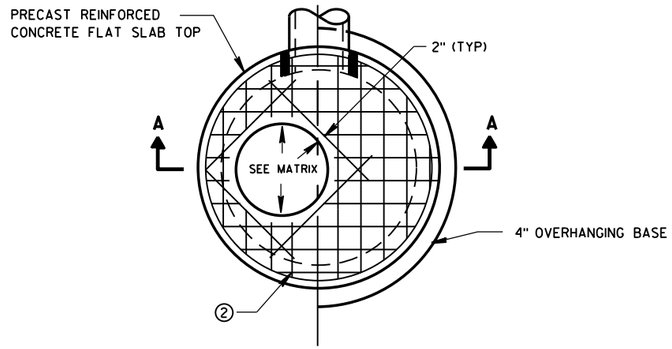
FHWA

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

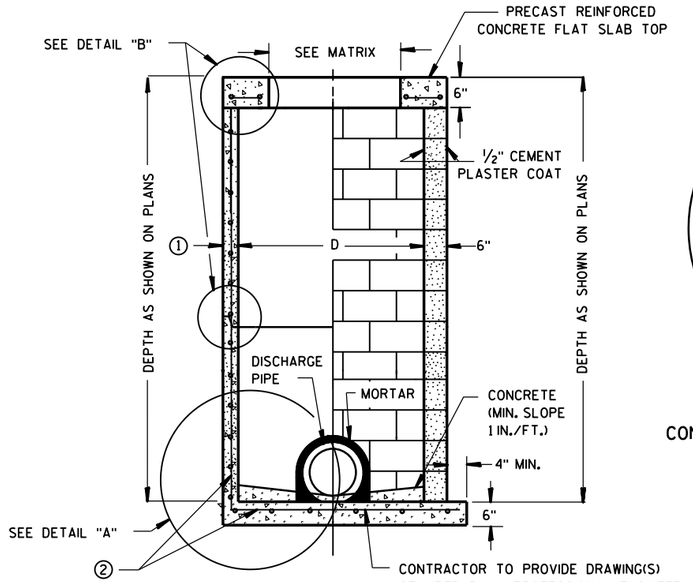
6
SDD 08B09 - 03



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

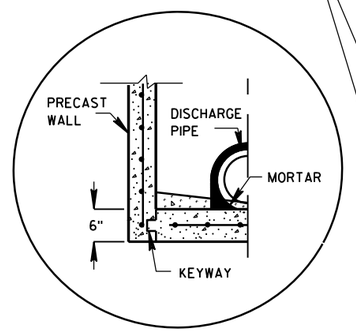


SECTION A-A

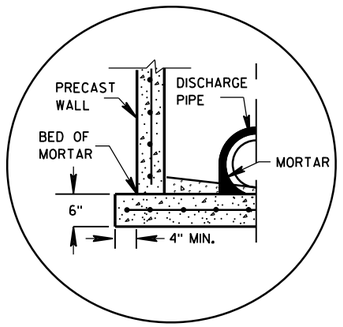
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

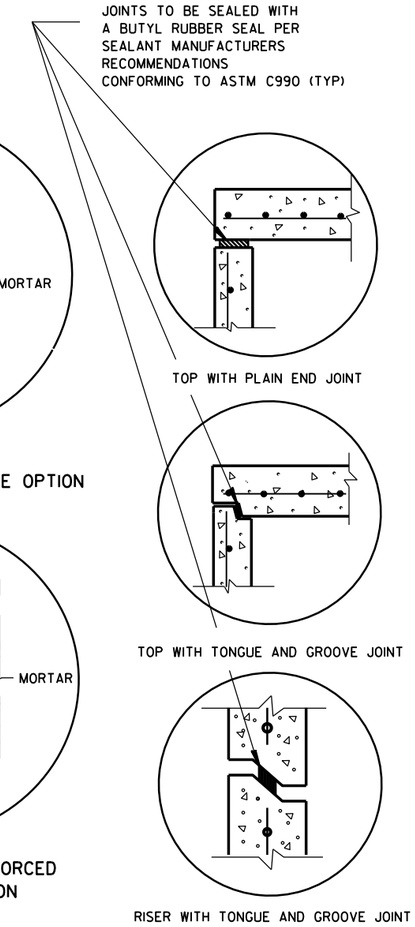


PRECAST REINFORCED
CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED
CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

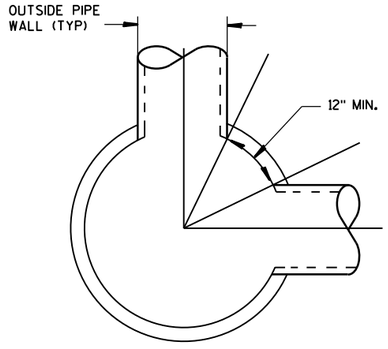
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

INLETS 3-FT
AND 4-FT DIAMETER

STATE OF WISCONSIN
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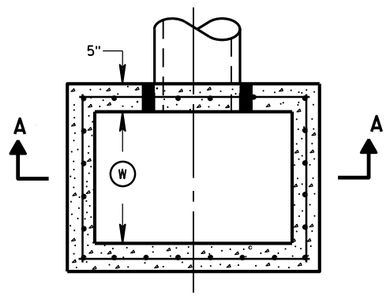
APPROVED
Sept.. 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS | UNIT SUPERVI ENT
FHWA

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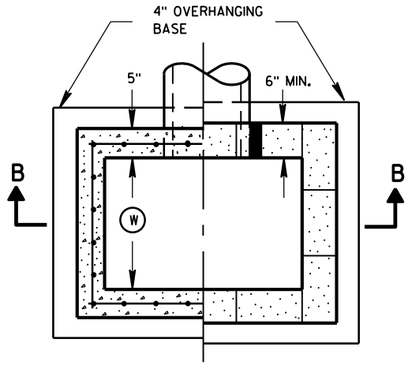
S.D.D. 8 C 6-2

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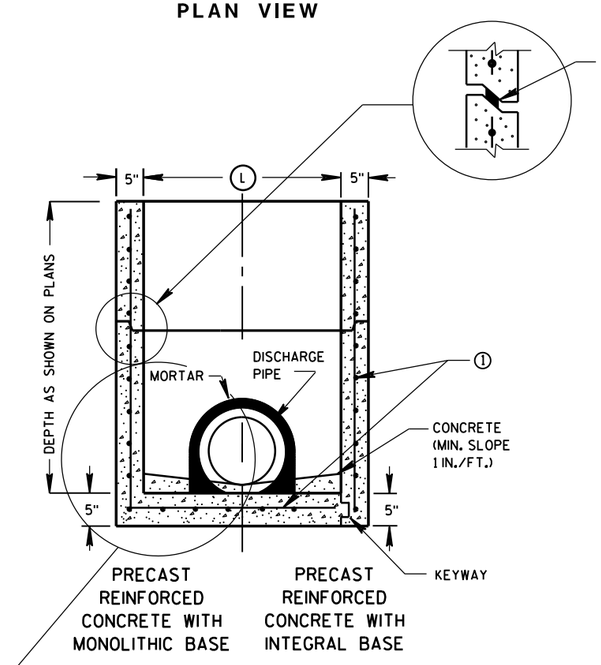
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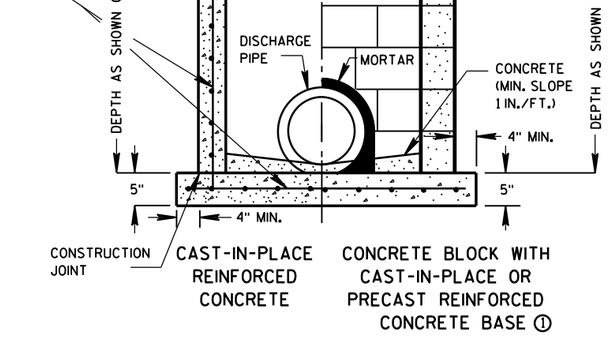
PLAN VIEW



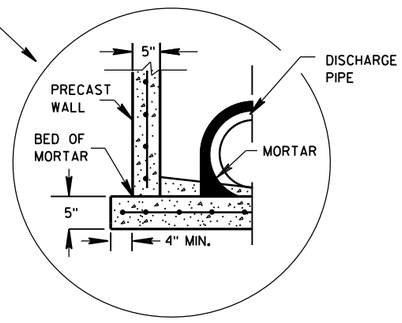
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

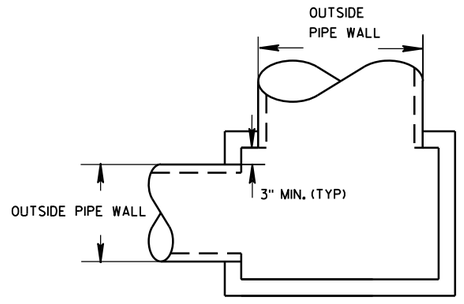
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

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Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

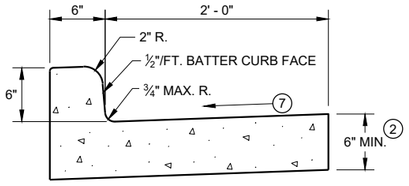
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

6

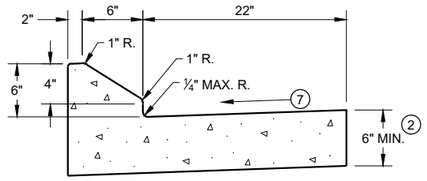
S.D.D. 8 C 7-2

6

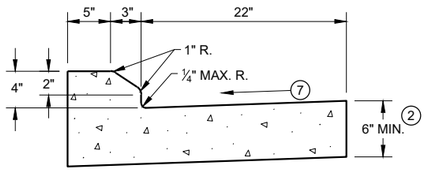
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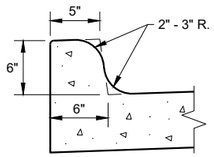
TYPES A (1) & D



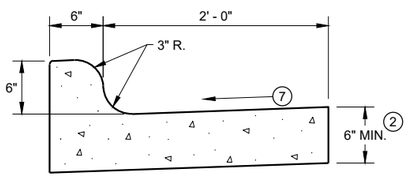
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

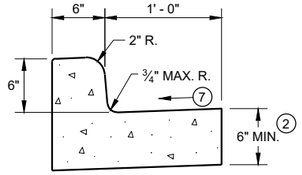


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



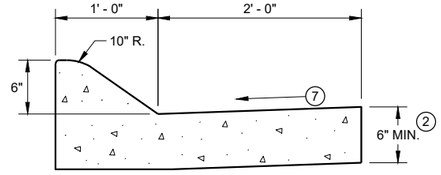
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

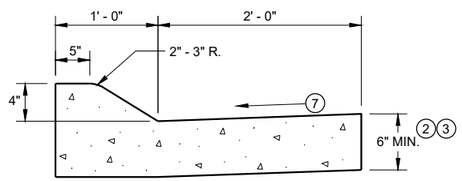


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

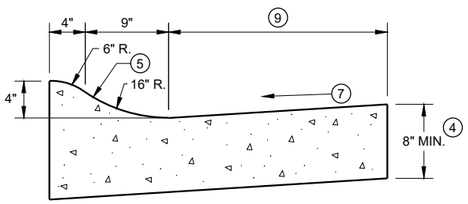


6" SLOPED CURB TYPES A (1) & D



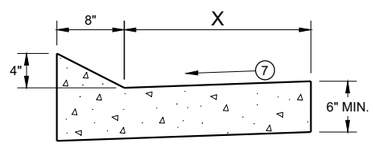
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

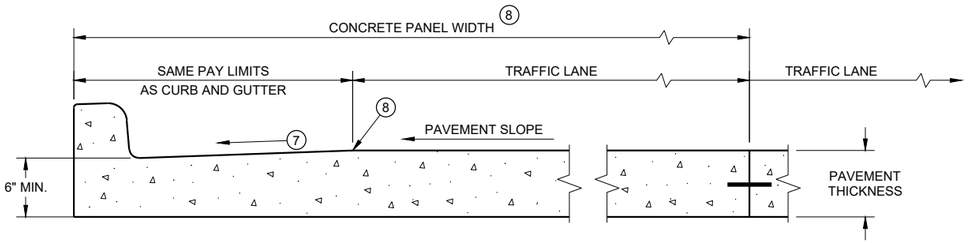


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

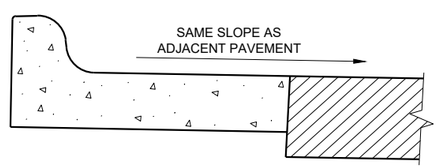
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

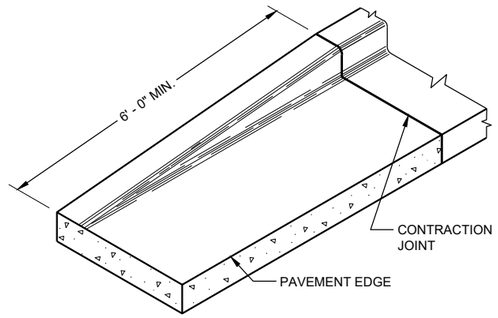
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

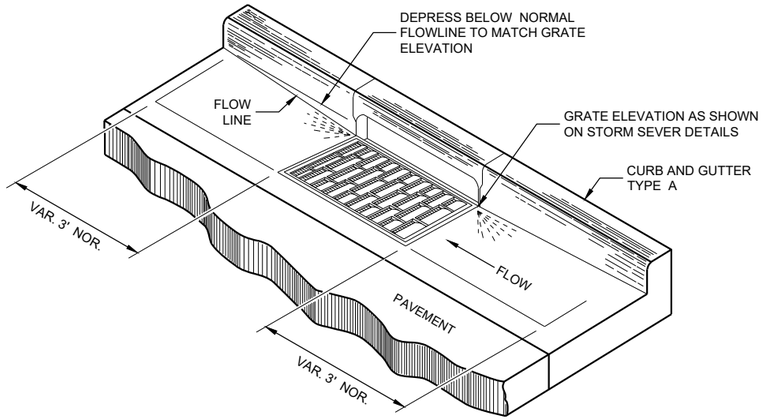
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D01 - 22a
SDD 08D01 - 22a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

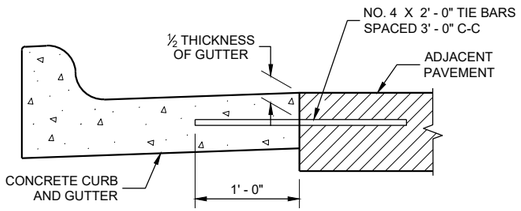
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

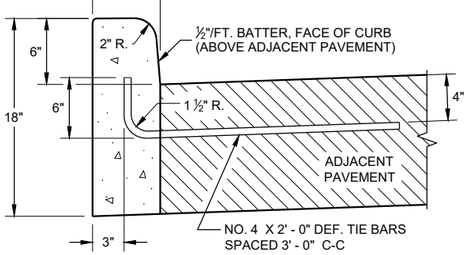
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

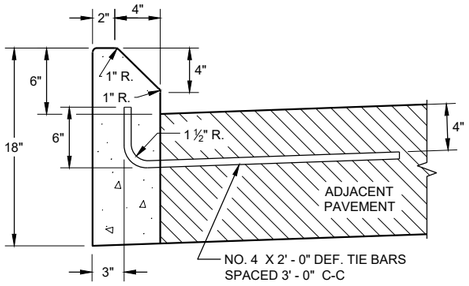
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

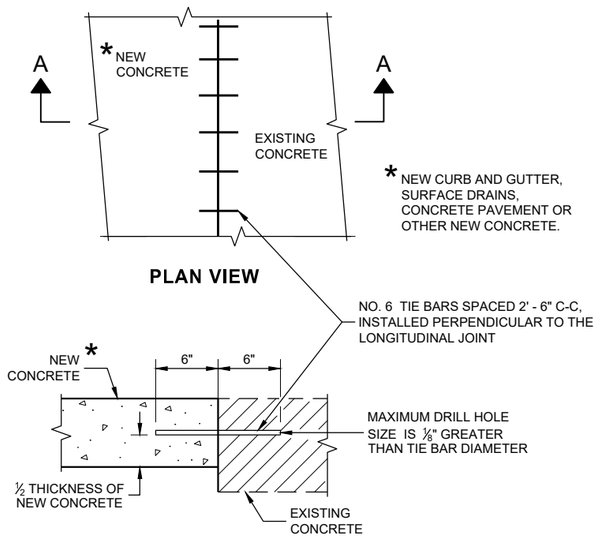


TYPES A (1) & D



TYPES G (1) & J

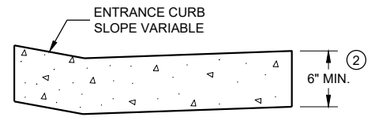
CONCRETE CURB



PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

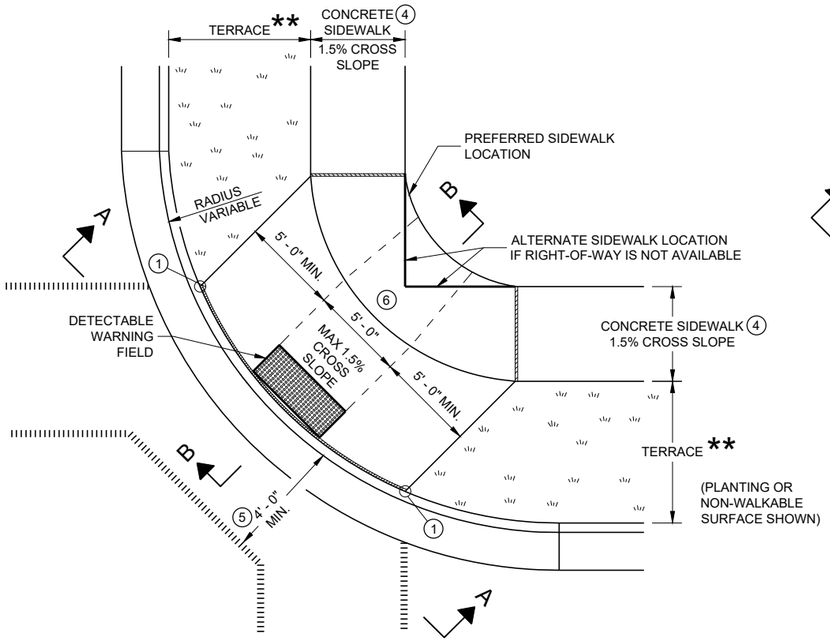
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

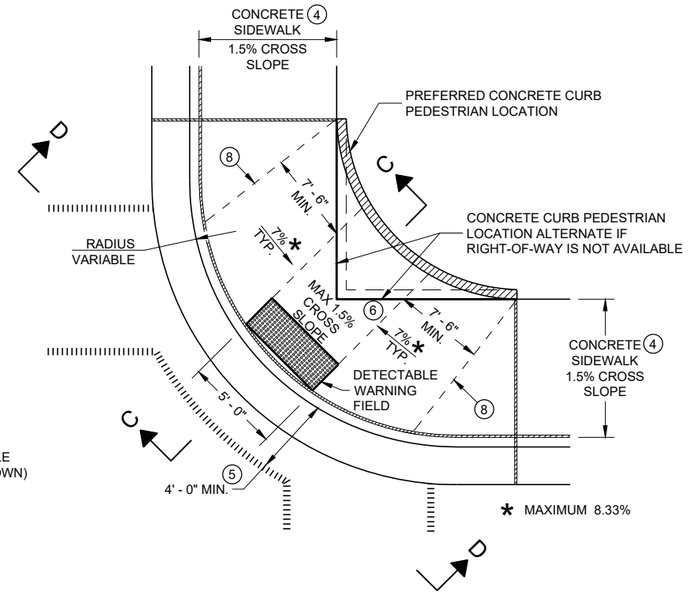
SDD08D01 - 22b



PLAN VIEW

CURB RAMP TYPE 1

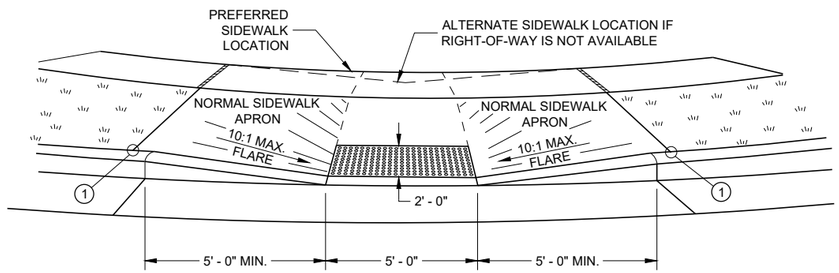
(CENTER OF CORNER RADIUS)



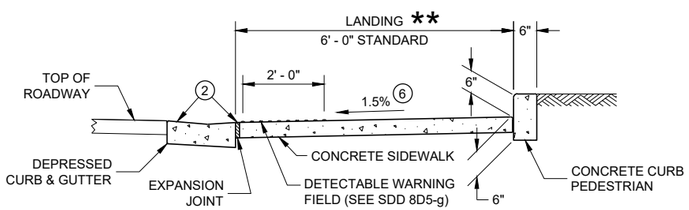
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

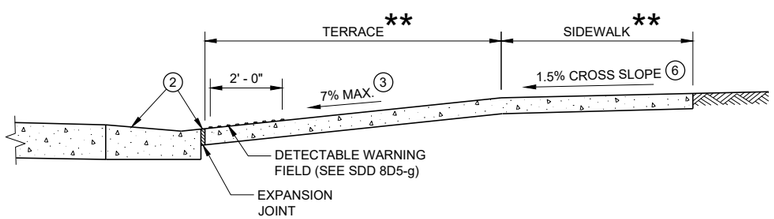


VIEW A - A FOR TYPE 1

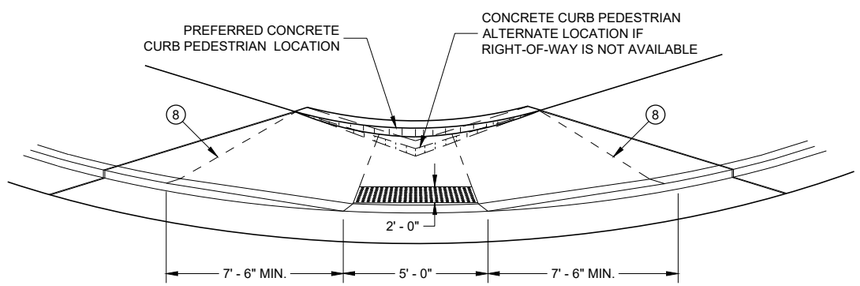


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

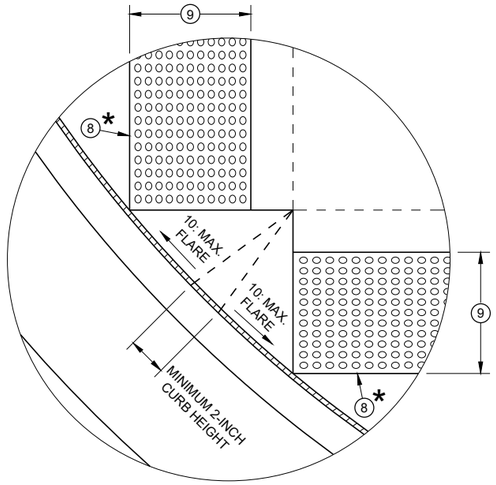
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

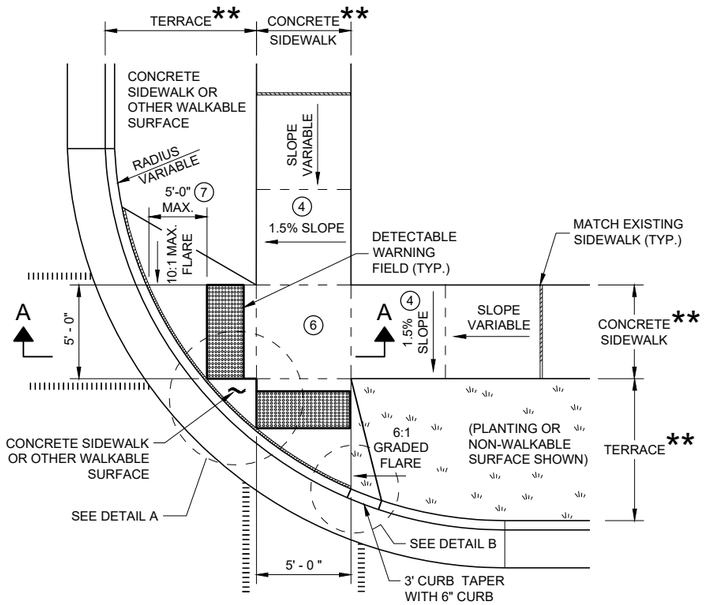
CURB RAMPS
TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

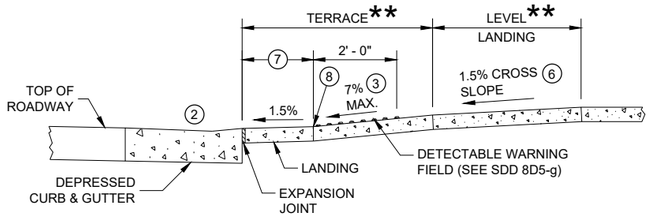
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

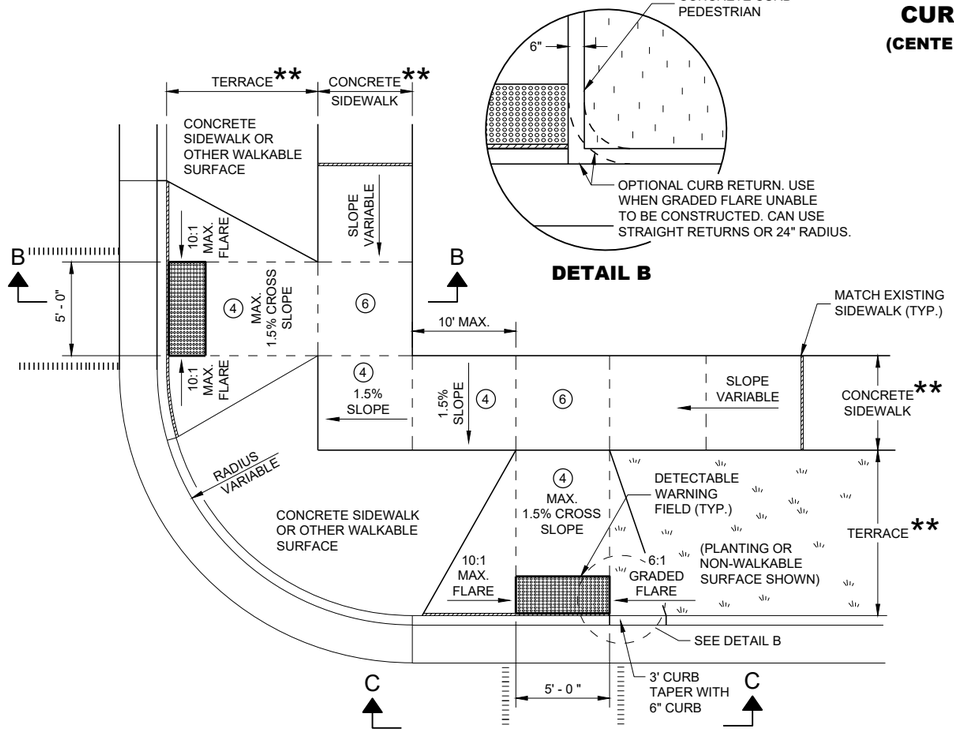
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

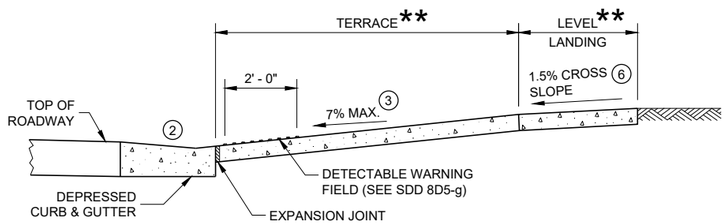
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

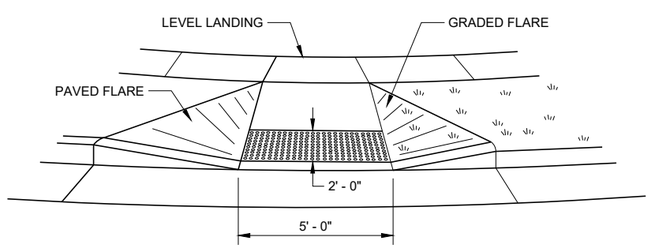
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

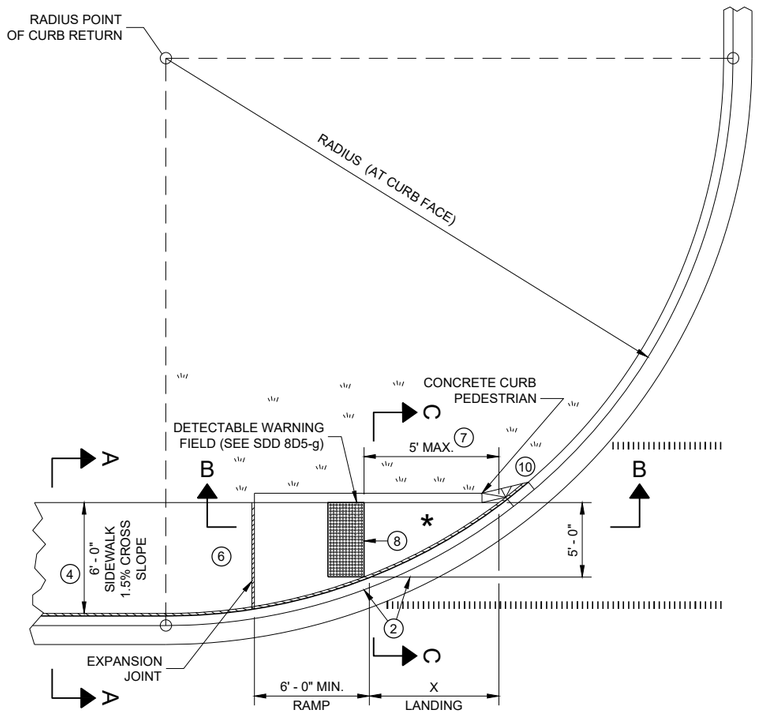
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

6

SDD 08D05 - 20b

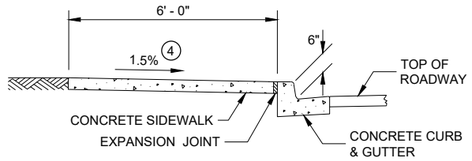


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

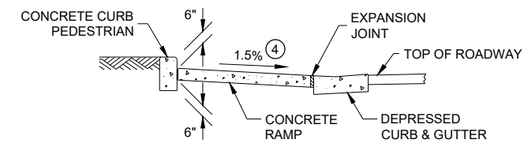
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

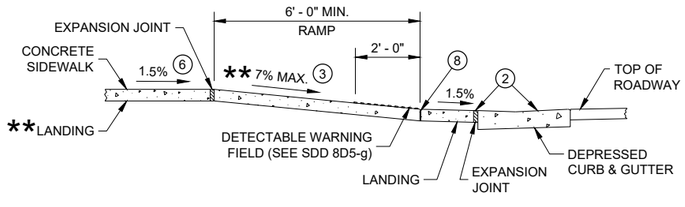
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)

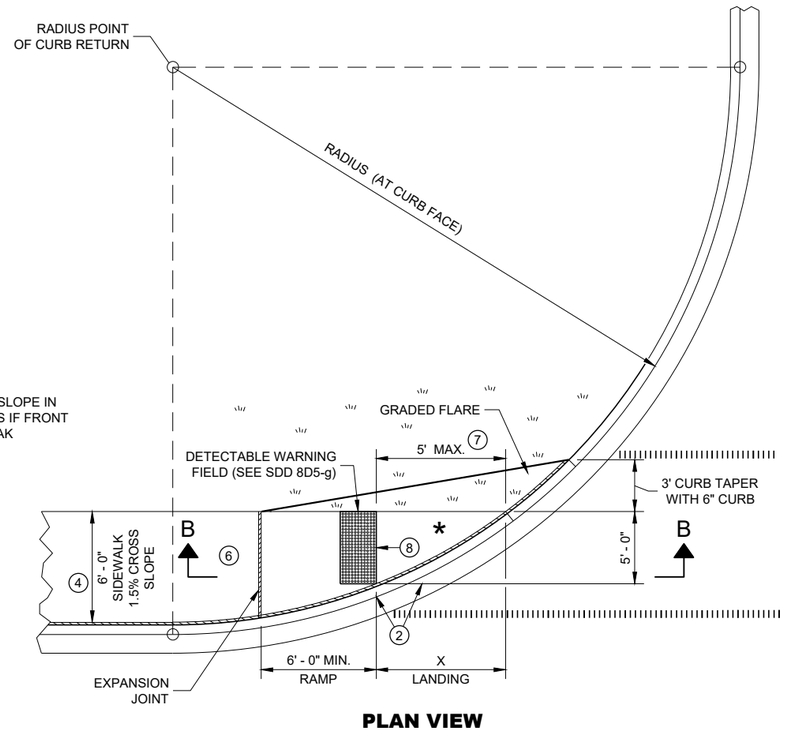


SECTION C - C FOR TYPE 4A



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

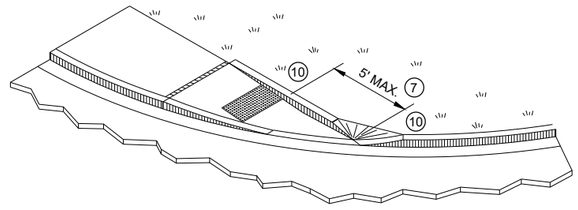
SECTION B - B FOR TYPE 4A AND TYPE 4A1



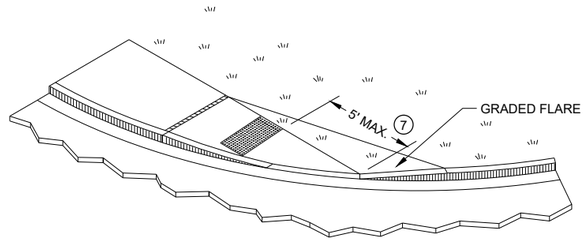
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



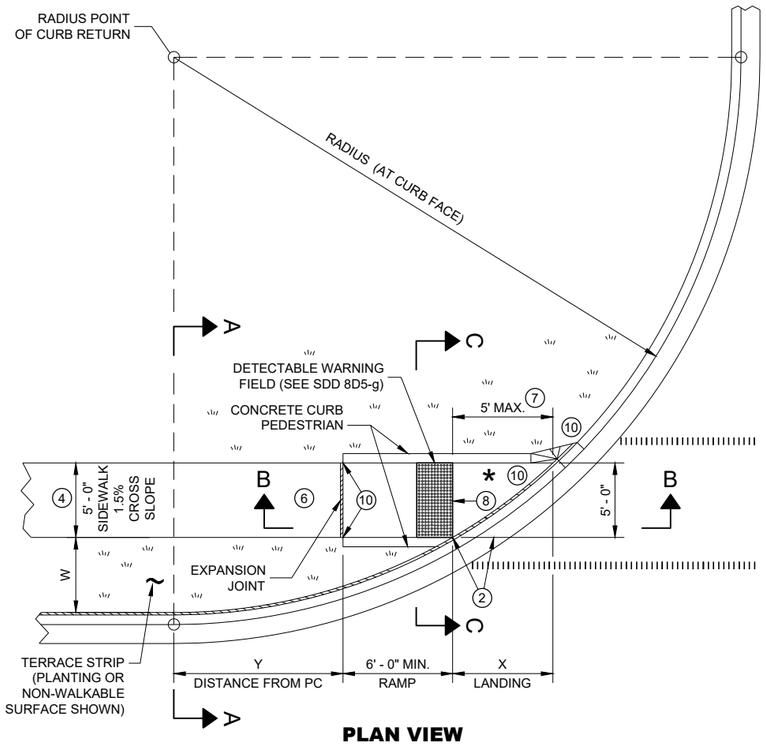
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c



PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

SECTION C - C FOR TYPE 4B

LEGEND

½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

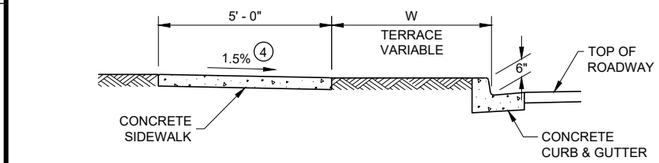
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

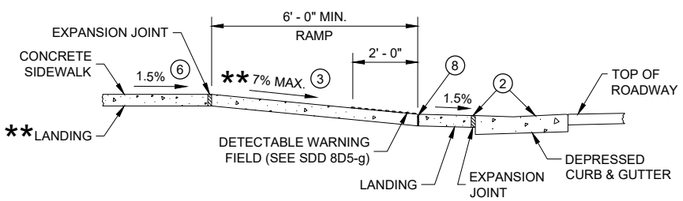
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



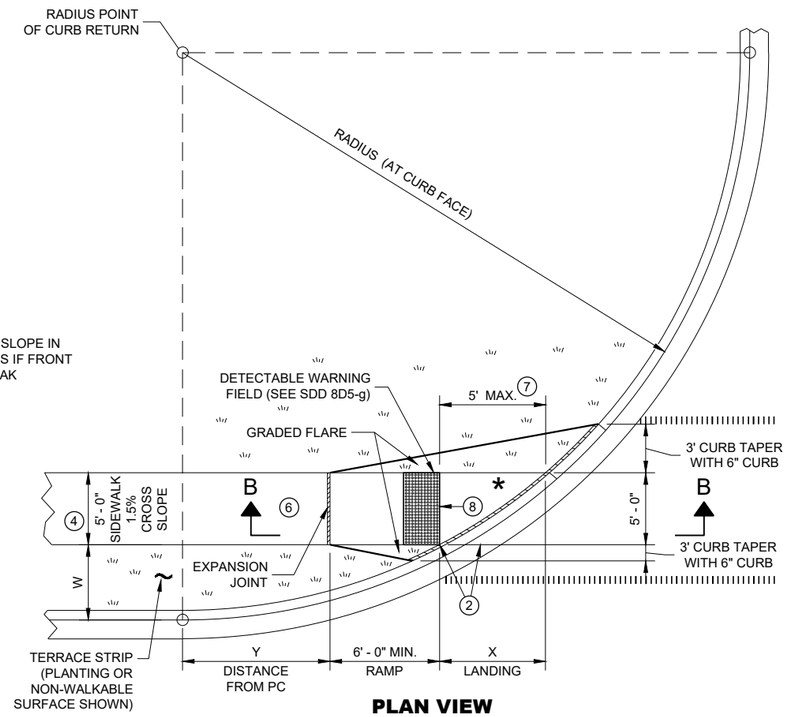
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

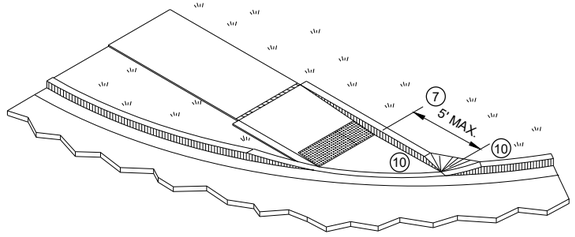
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

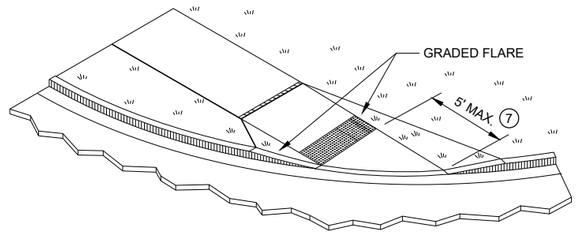


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

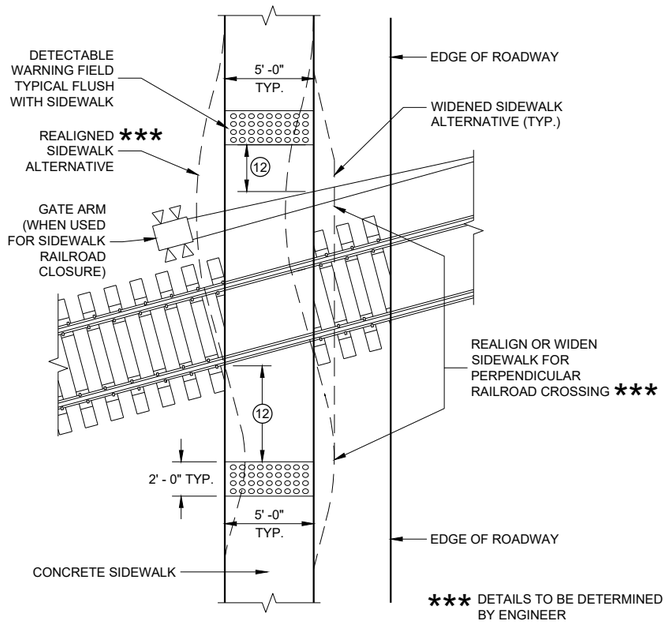
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SDD 08D05 - 20d

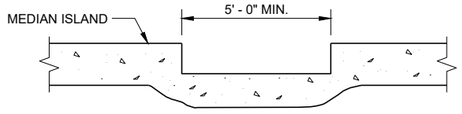
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SDD 08D05 - 20d

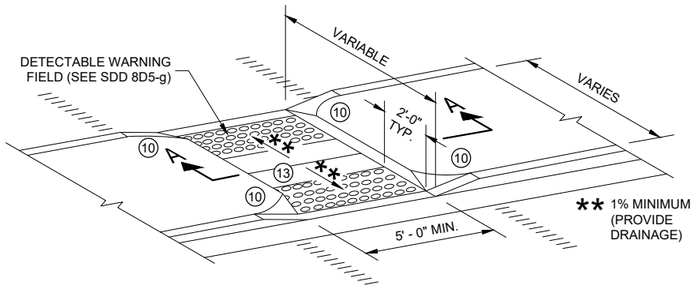


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

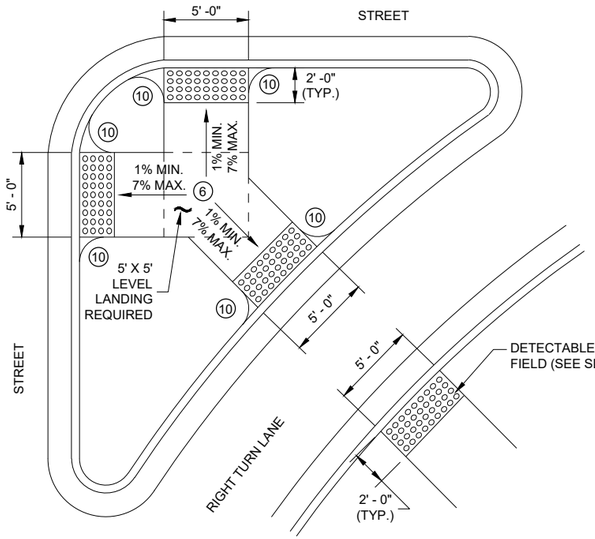
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

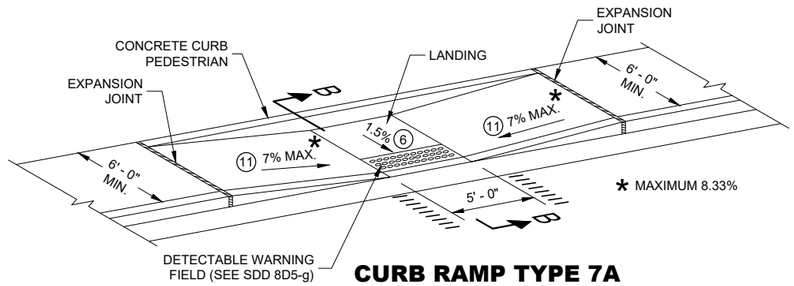
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

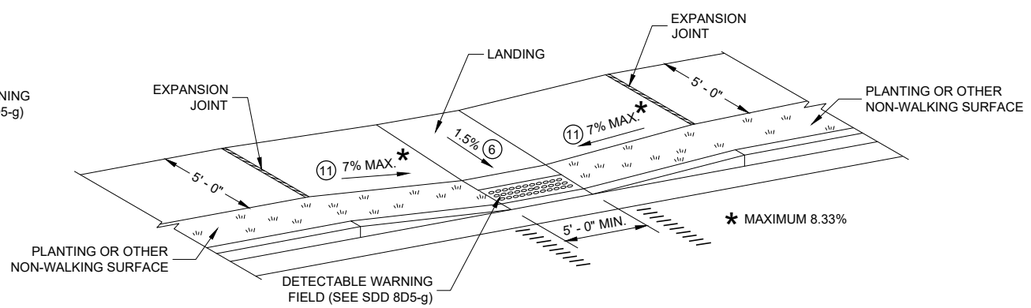
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

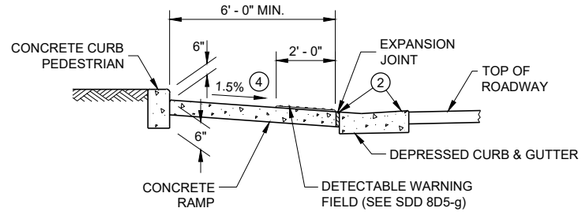
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

575

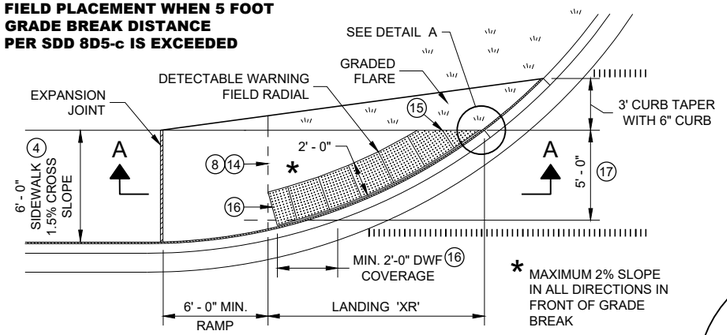
SDD 08D05 - 20e

SDD 08D05 - 20e

6

6

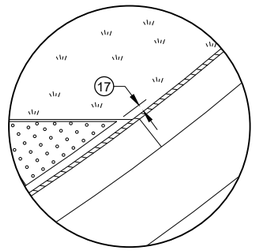
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



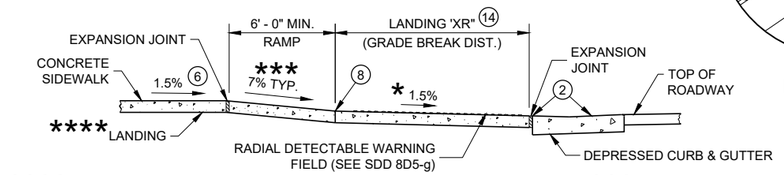
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A

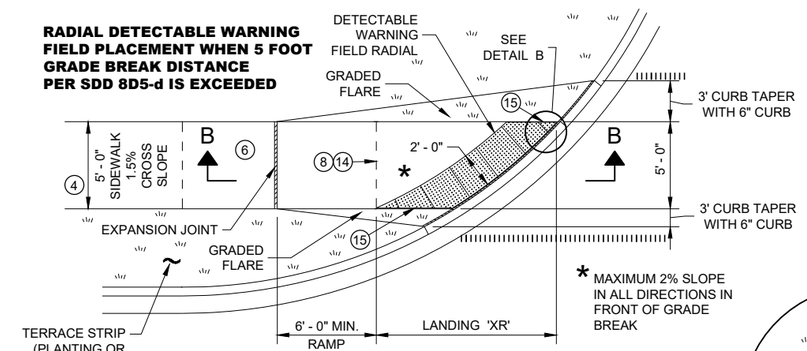


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

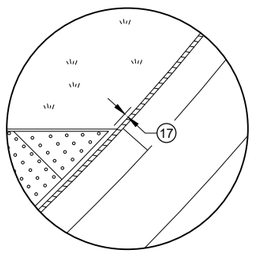
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



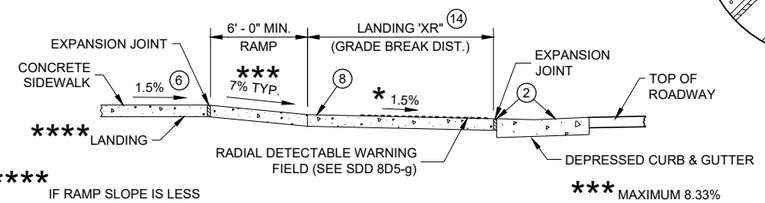
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

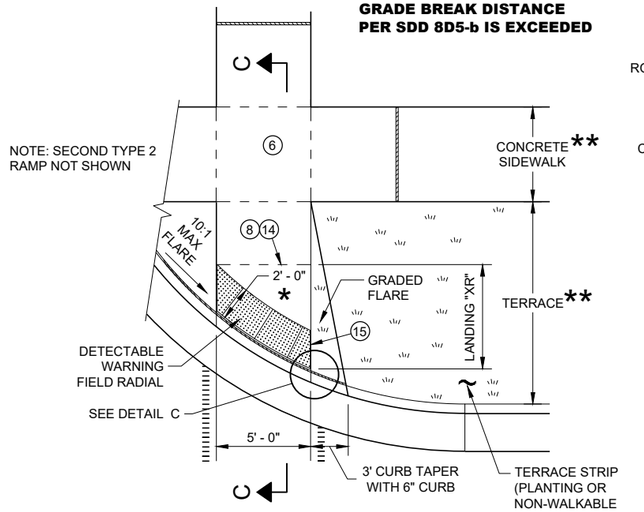
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

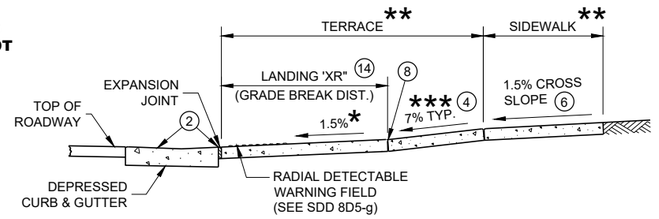


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

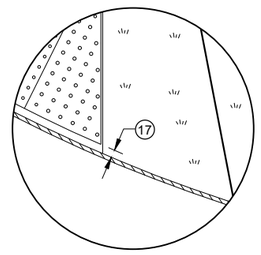


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

576

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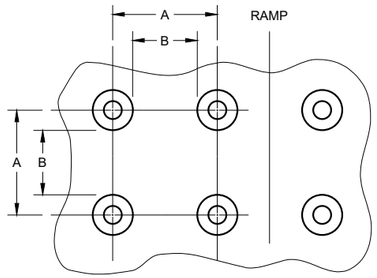
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SDD 08D05 - 20f

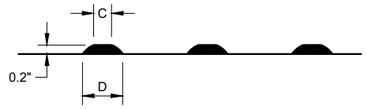
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

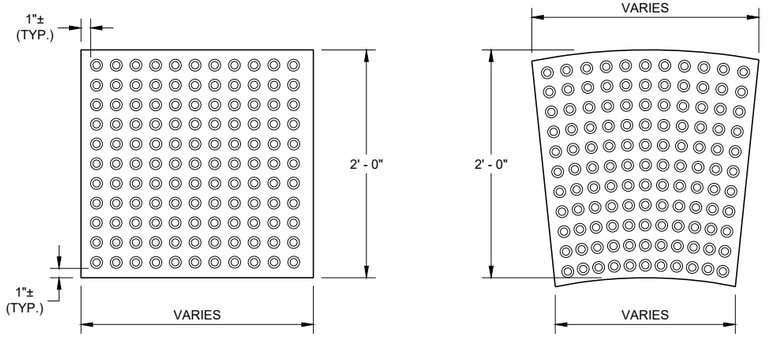


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

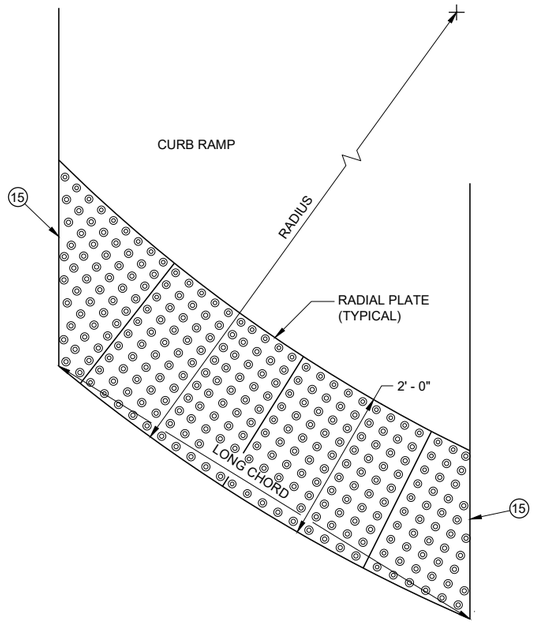
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

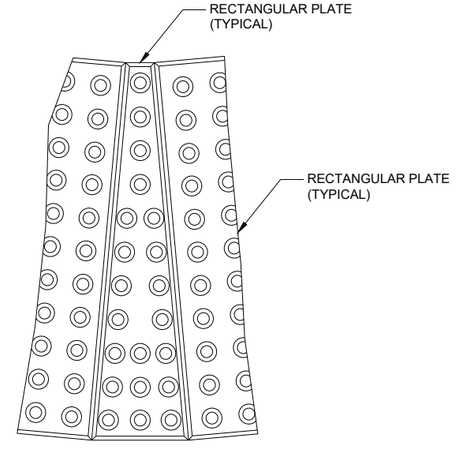
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

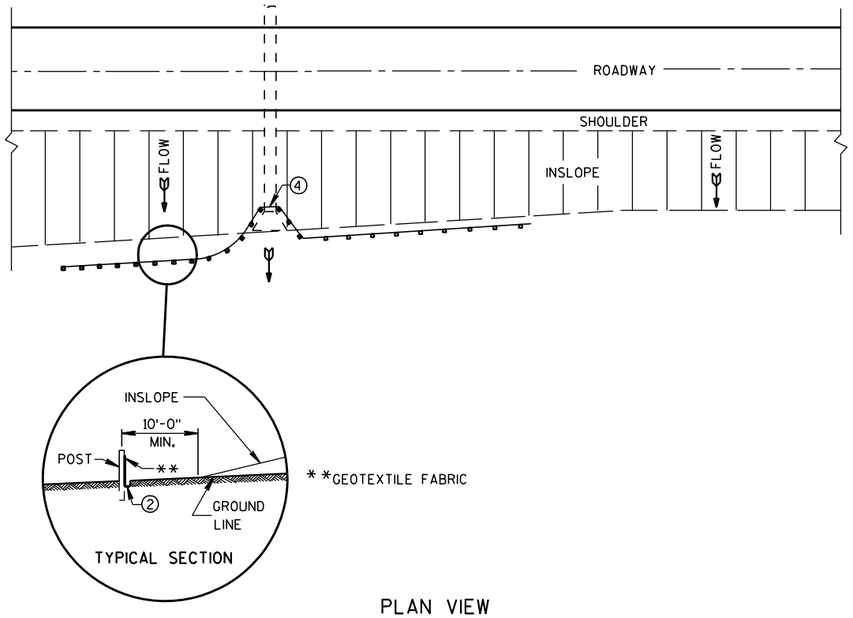
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

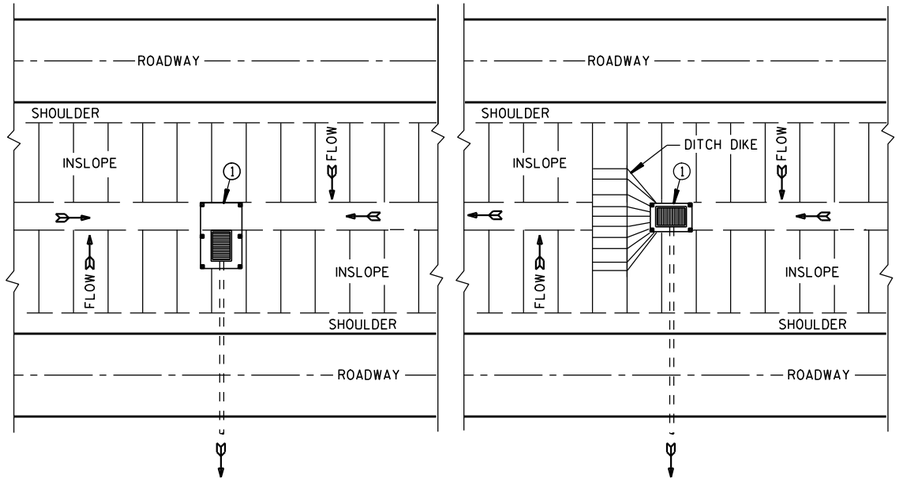
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SDD 08D05 - 20g



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



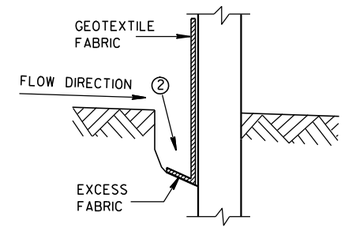
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

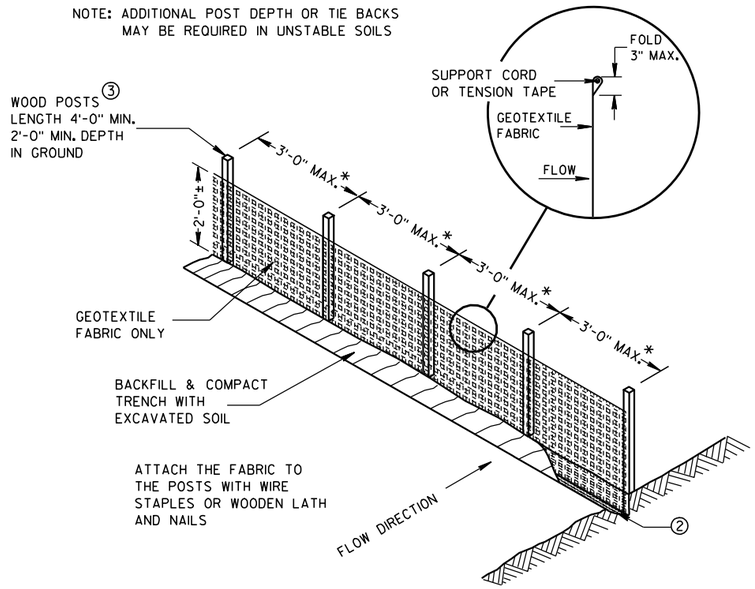
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

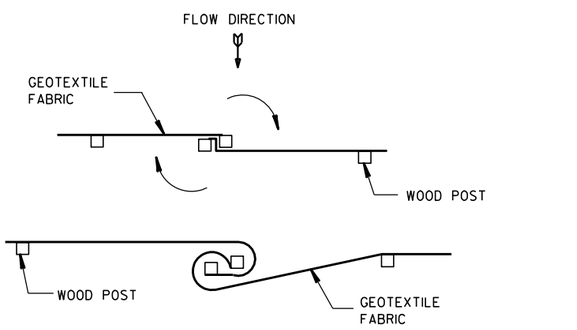
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



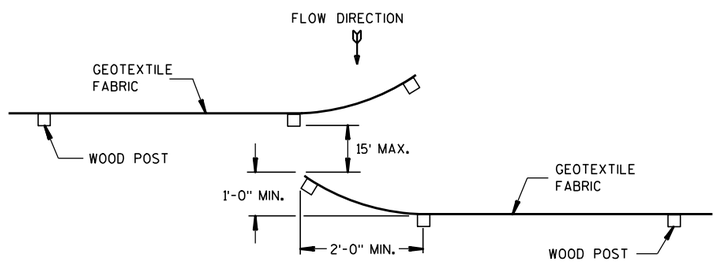
TRENCH DETAIL



SILT FENCE

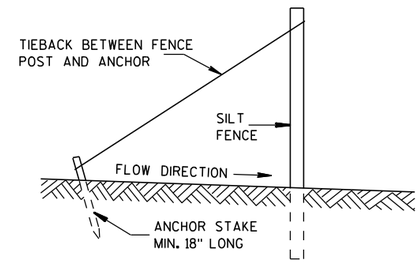


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

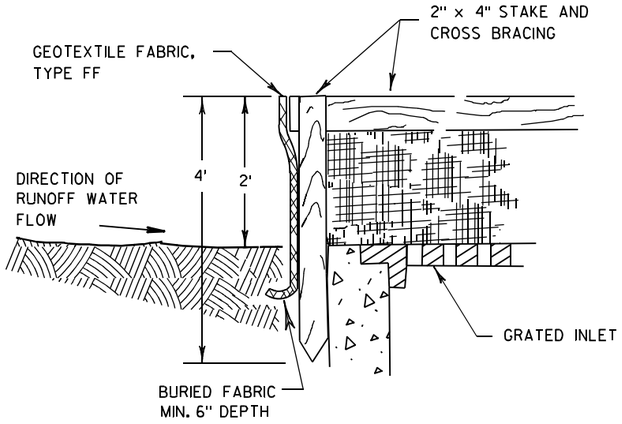
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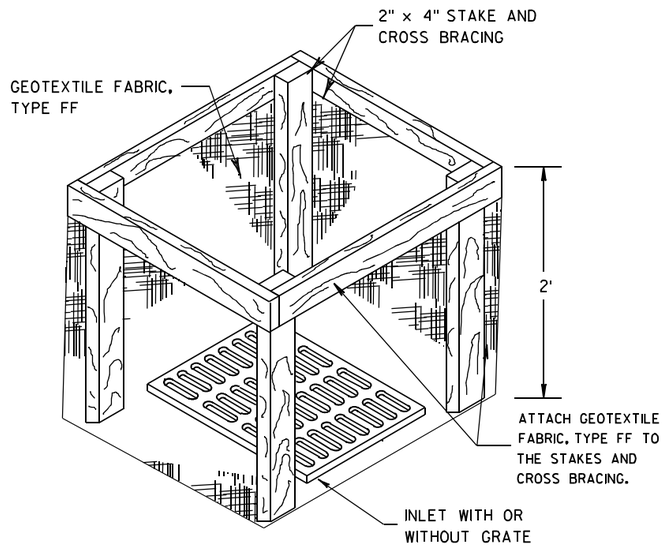
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S.D.D. 8 E 9-6

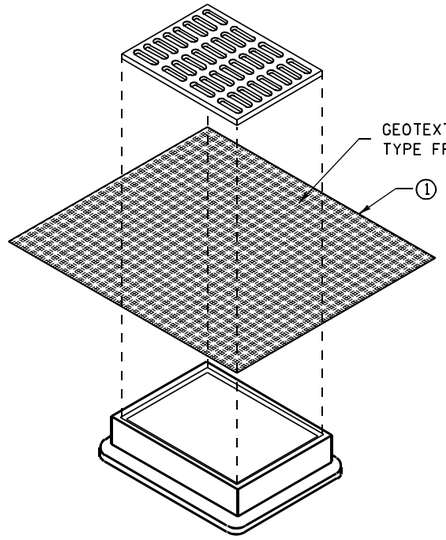
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S.D.D. 8 E 9-6



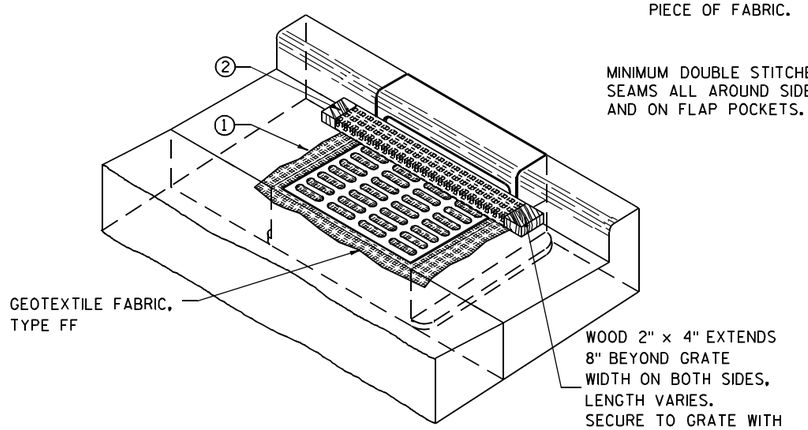


INLET PROTECTION, TYPE A

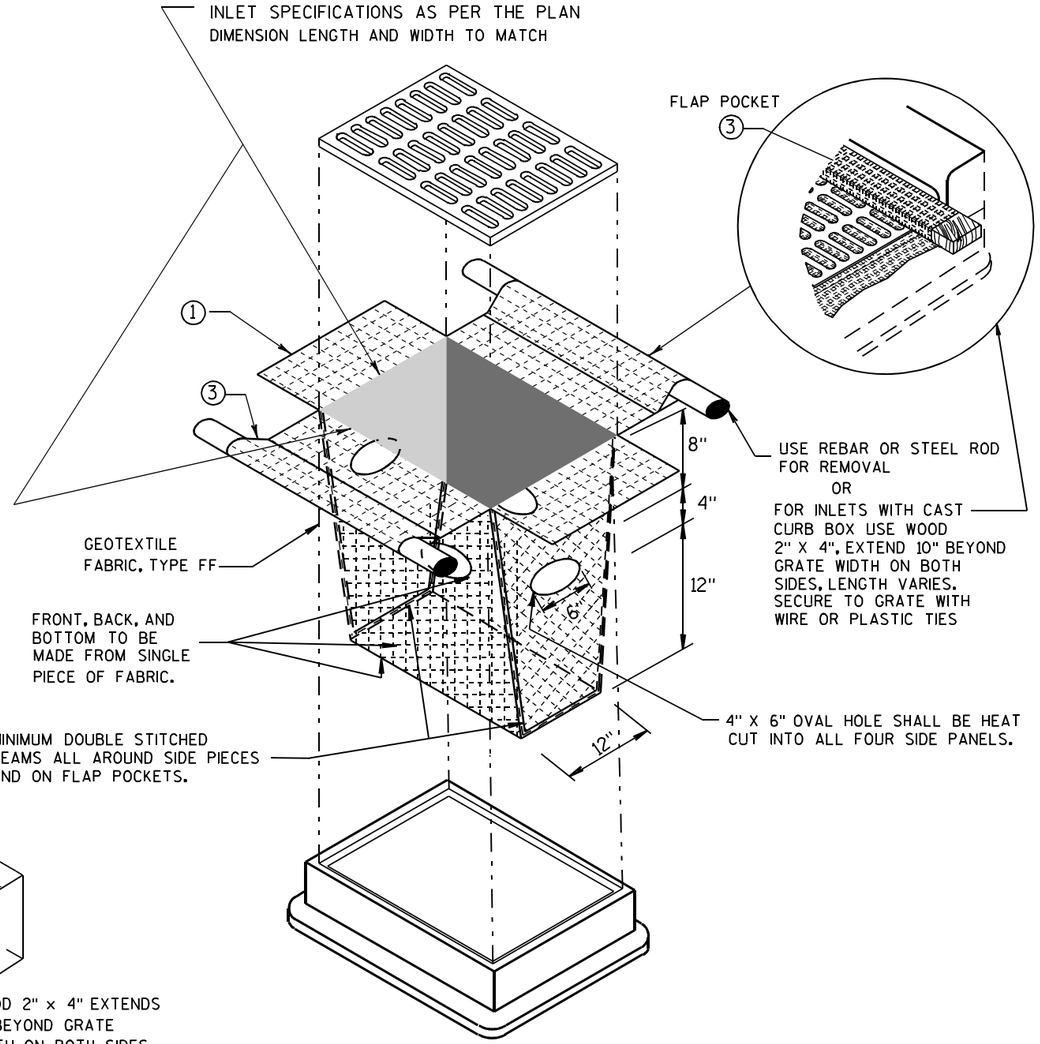


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Conradino
CHIEF ROADWAY DEVELOPMENT ENGINEER

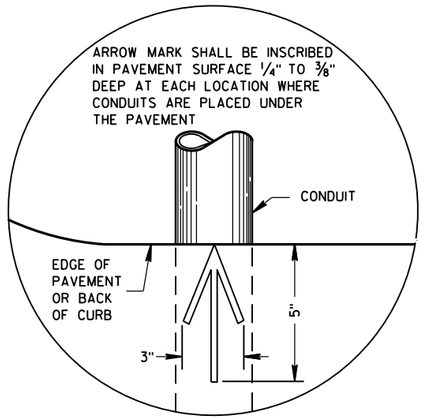
FHWA

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S.D.D. 8 E 10-2

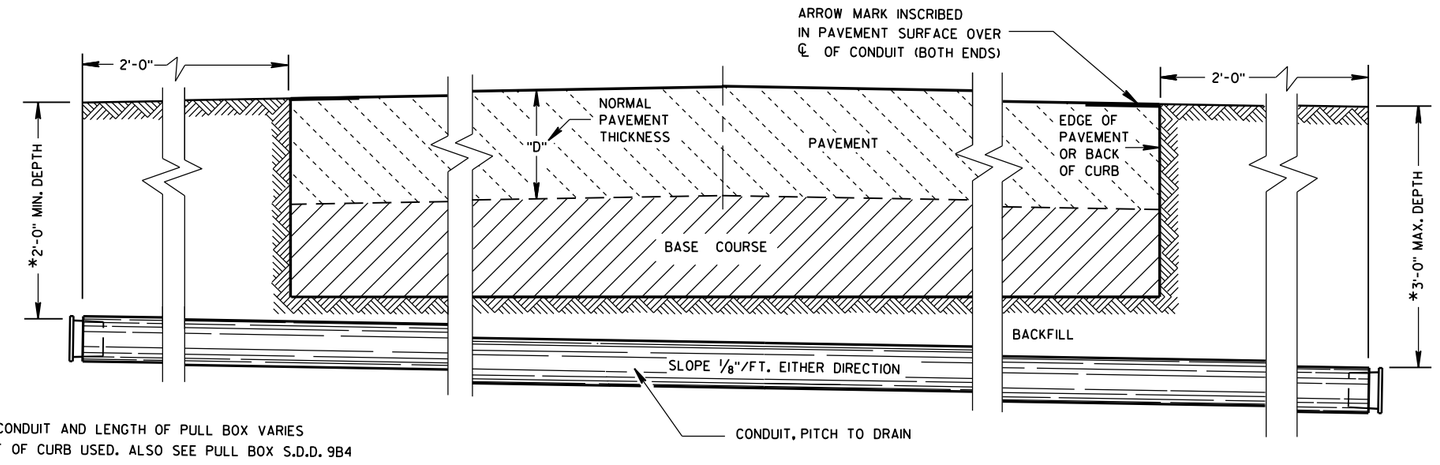
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S.D.D. 8 E 10-2



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

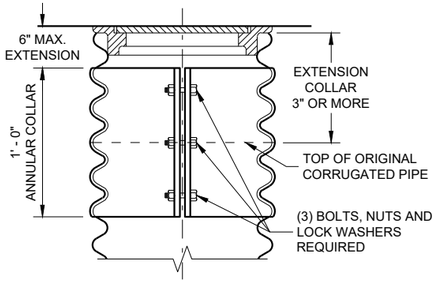
CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

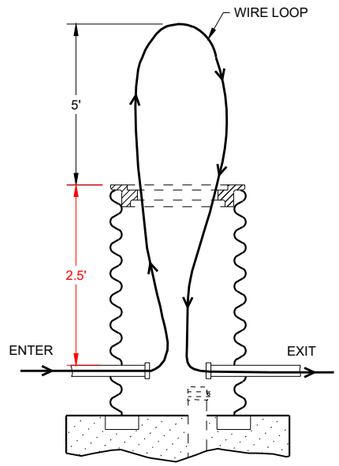
APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 580
FHWA

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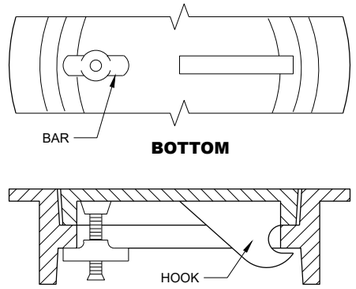
S.D.D. 9 B 2-10



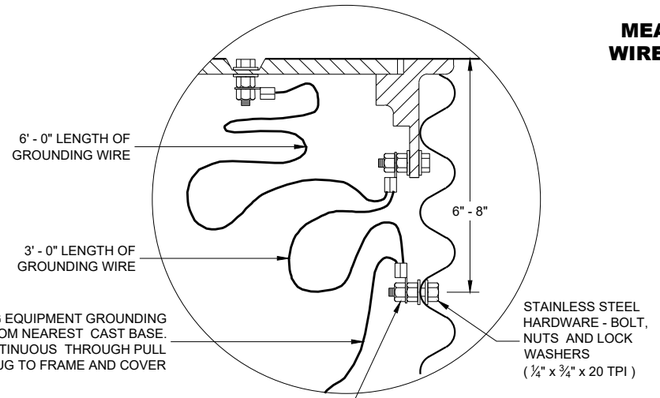
CORRUGATED PIPE EXTENDER



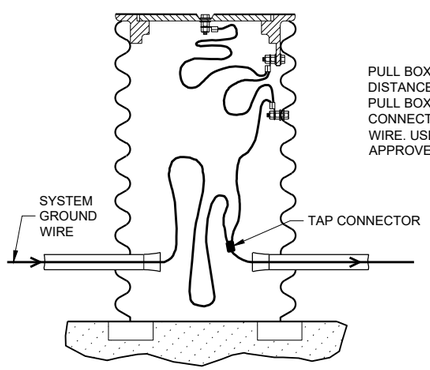
MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



ALTERNATE COVER (LOCKING)
TIGHTENING BAR TYPE

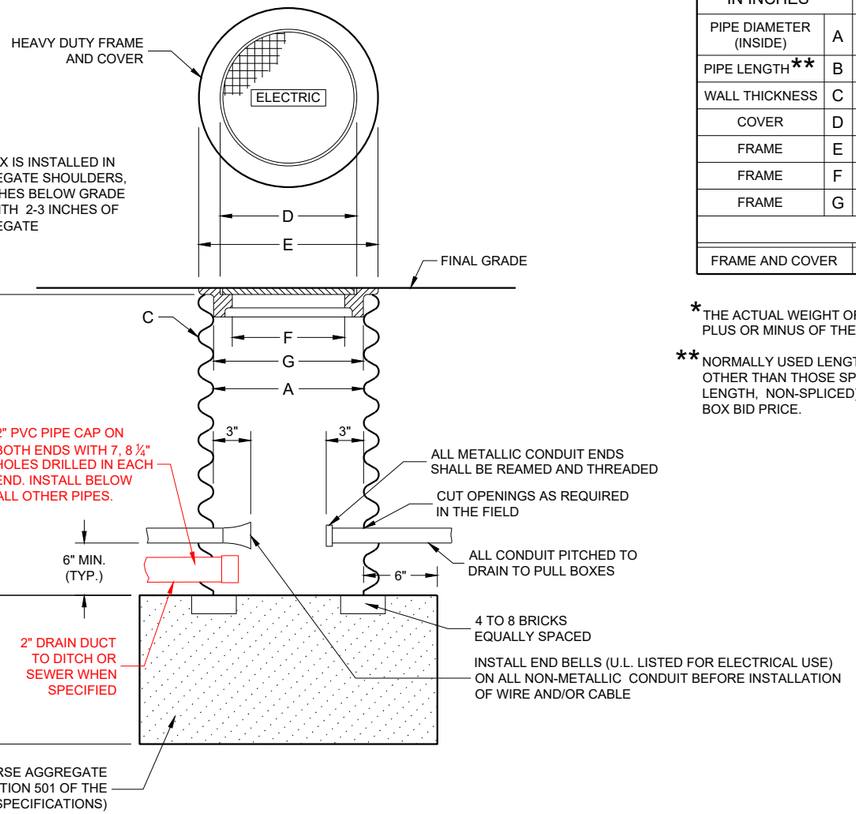


EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH**	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 ¼	10 ¼	10 ¼	16 ¼	16 ¼	16 ¼	22 ¼	22 ¼	22 ¼
FRAME	E	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½	26 ½	26 ½	26 ½
FRAME	F	8 ½	8 ½	8 ½	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½
FRAME	G	11 ½	11 ½	11 ½	17 ½	17 ½	17 ½	23 ½	23 ½	23 ½
WEIGHT IN POUNDS*										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

*THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

**NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

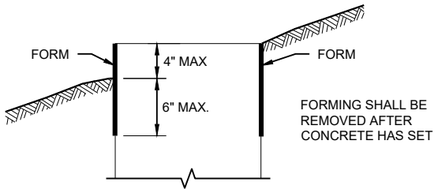
APPROVED
May 2022
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 581

FHWA

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SDD 09B04-12

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

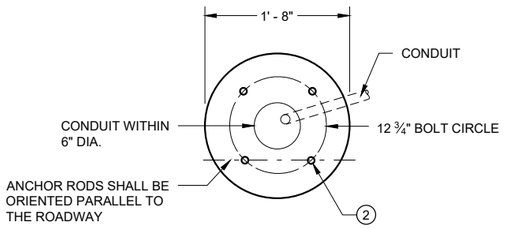
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

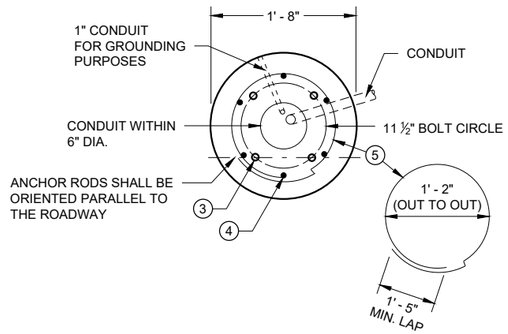
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

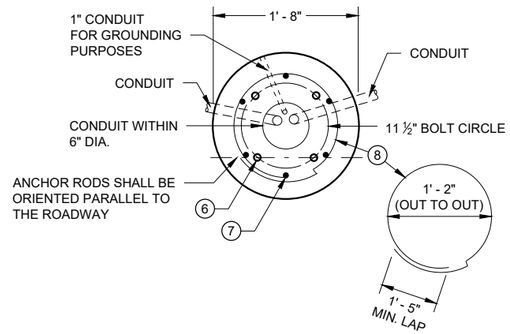
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

(2) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(3) (4) 1" DIA. X 5' - 0" ANCHOR RODS.

(4) (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

(5) (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

(6) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(7) (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

(9) EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

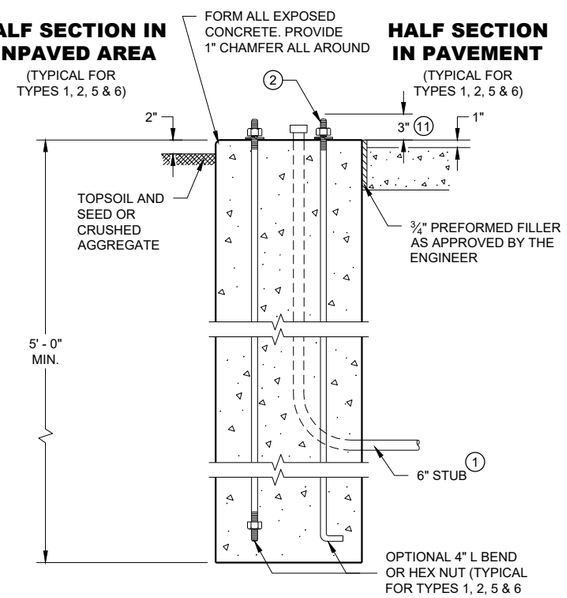
(10) ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

(11) ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

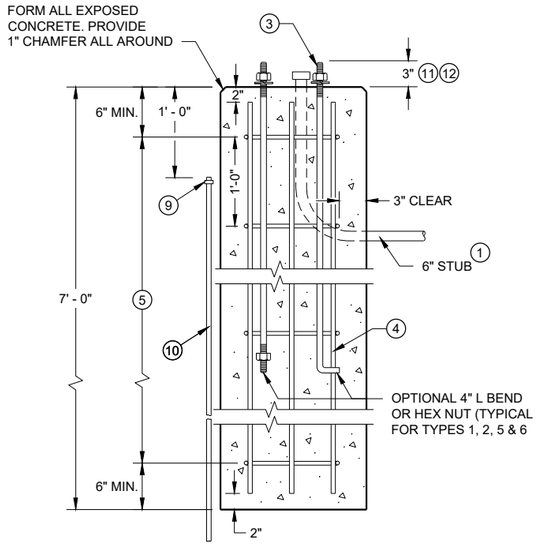
(12) FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

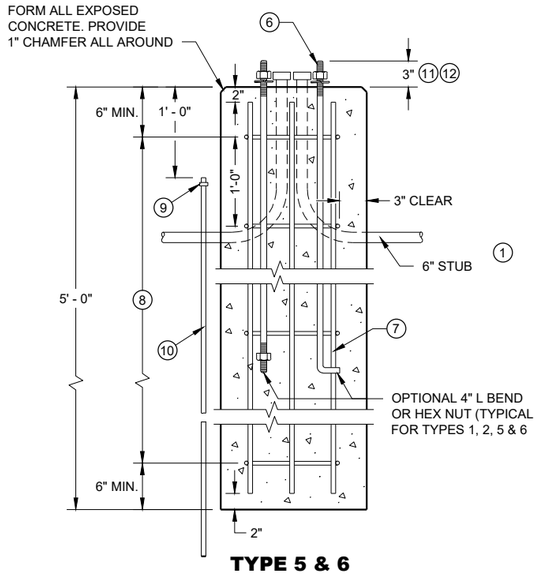
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 582
FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

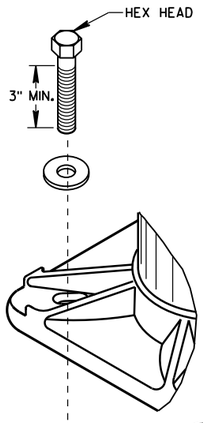
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

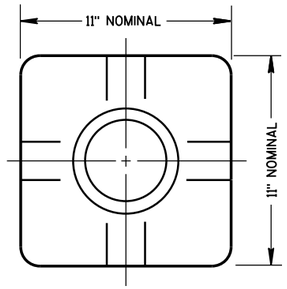
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

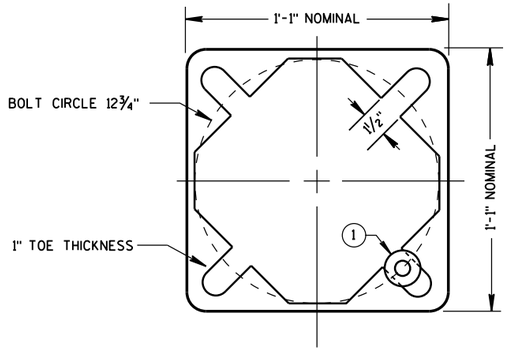
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

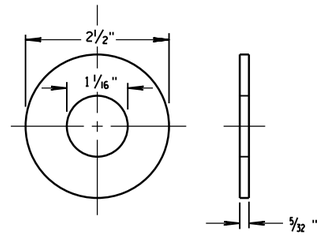




TOP VIEW
(PEDESTAL BASE)

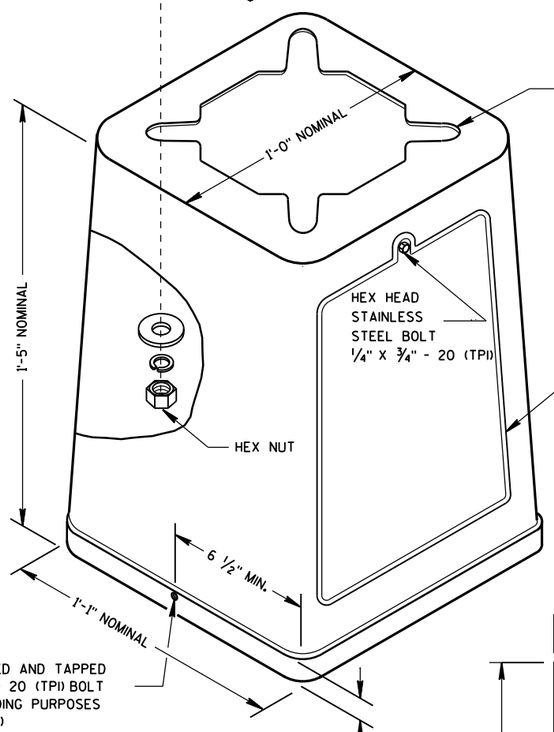


BOTTOM VIEW
(PEDESTAL BASE)

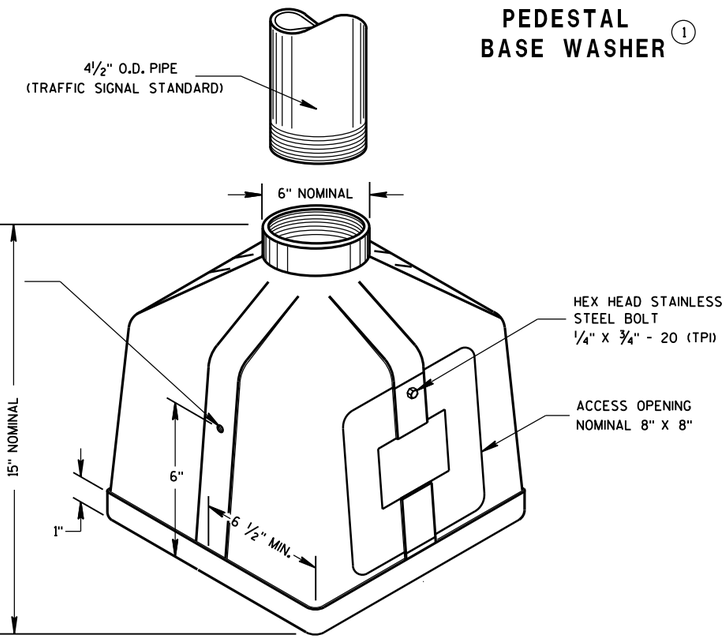


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

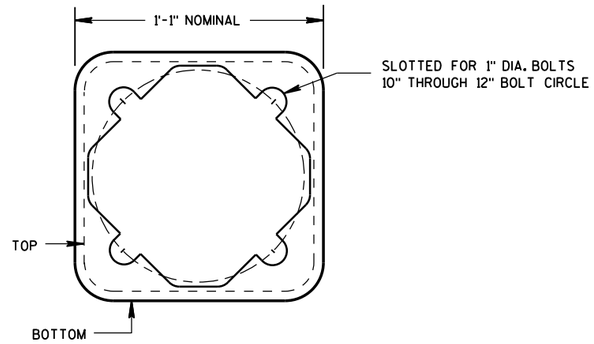
PEDESTAL BASE WASHER (1)



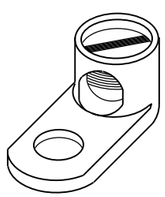
ISOMETRIC VIEW



ISOMETRIC VIEW
PEDESTAL BASE

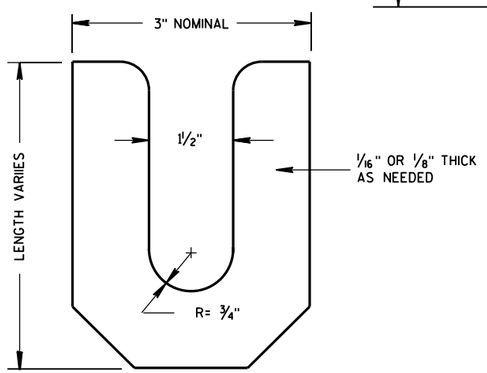


BOTTOM VIEW
(TRANSFORMER BASE)



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 C 3-4

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S.D.D. 9 C 3-4

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 ½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

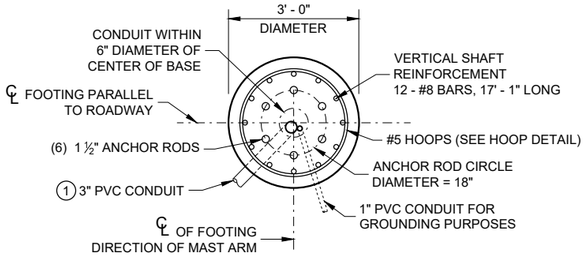
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

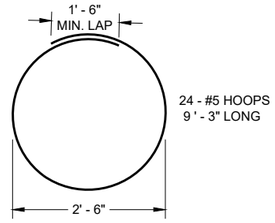
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

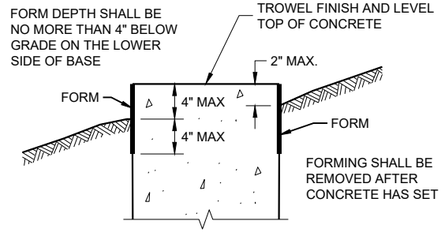
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION).....fy = 55,000 p.s.i.
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



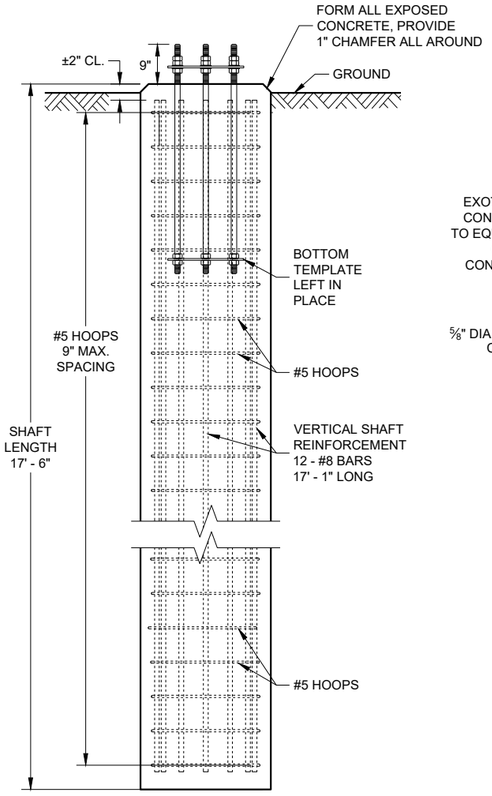
PLAN VIEW



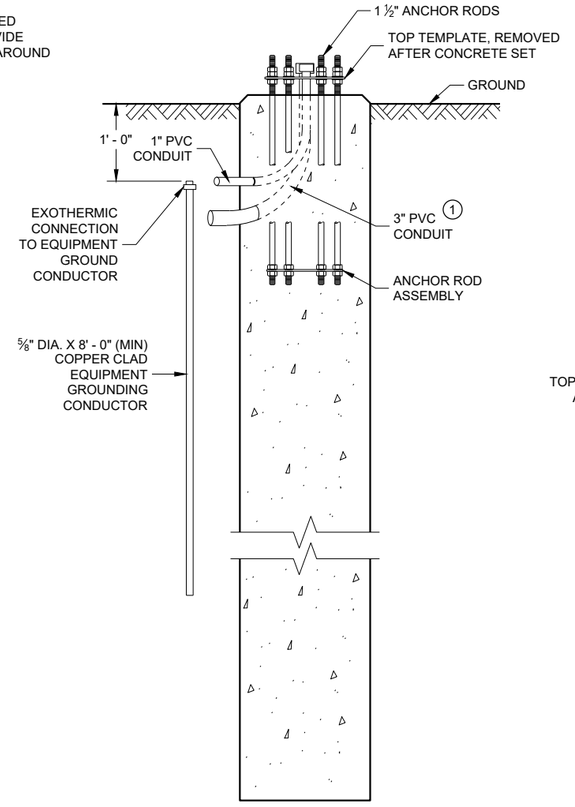
HOOP DETAIL



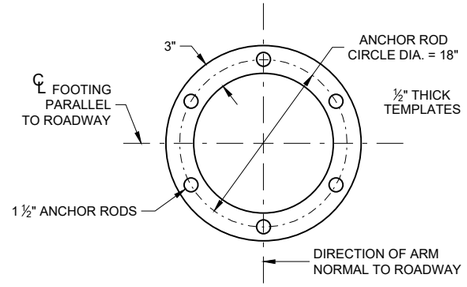
FORMING DETAIL



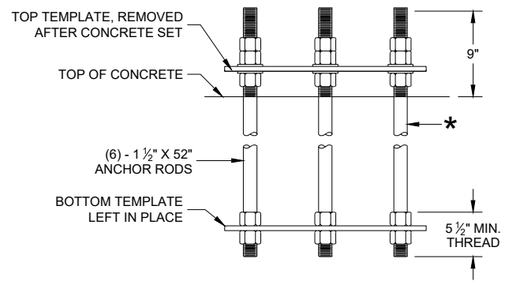
ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



SIDE VIEW
(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE, TYPE 10 SPECIAL
(FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES)

CONCRETE = 4.6 CUBIC YARD
H.S. REINFORCEMENT = 779 LBS.

FOR USE WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
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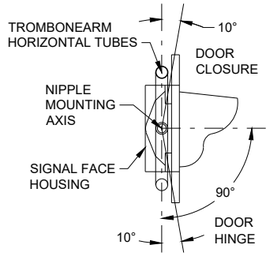
APPROVED
August 2020 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTU PROGRAM LEADER
FHWA

6

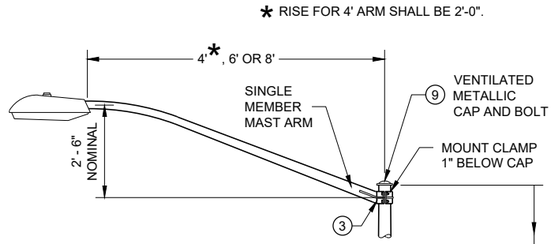
SDD 09C15 - 01

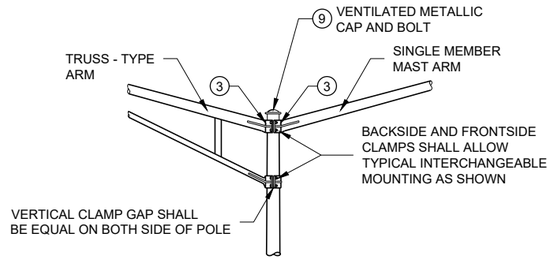
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SDD 09C15 - 01

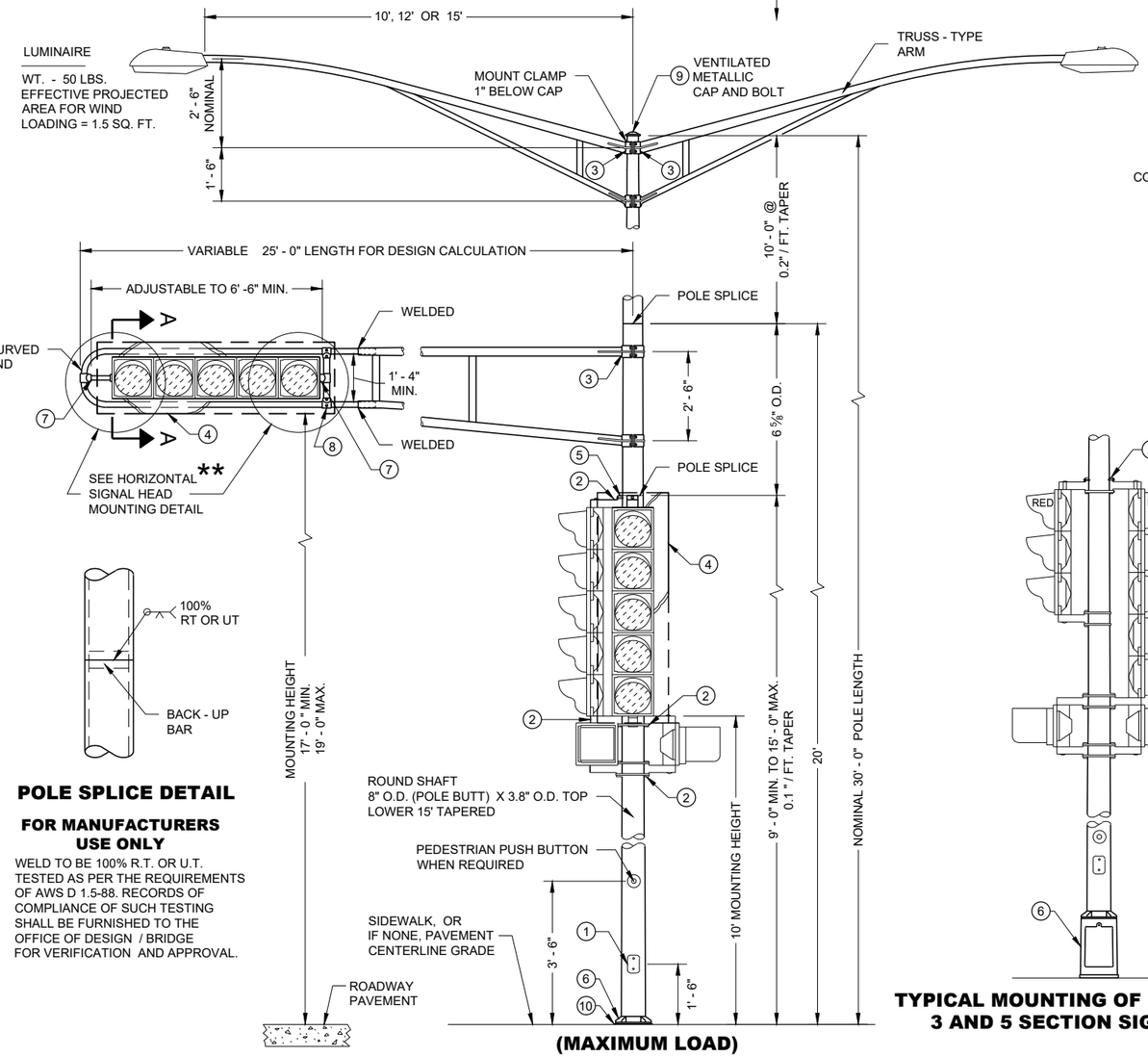


SECTION A-A

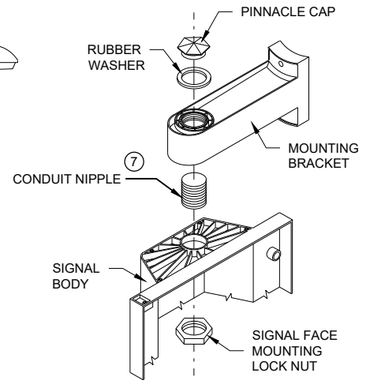




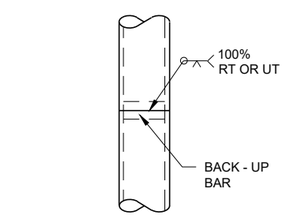
INTERCHANGEABLE MOUNTING DETAIL



(MAXIMUM LOAD)



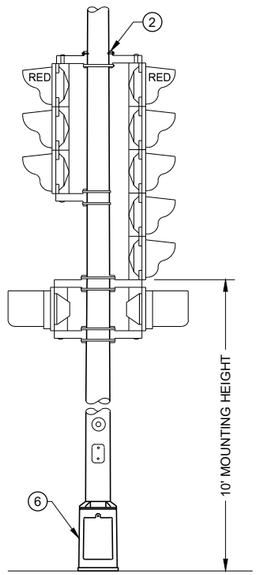
SIGNAL FACE MOUNTING DETAIL
(BANDED)



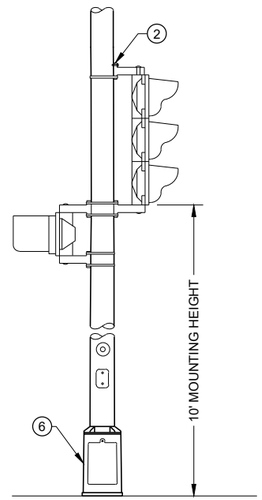
POLE SPLICE DETAIL

FOR MANUFACTURERS USE ONLY

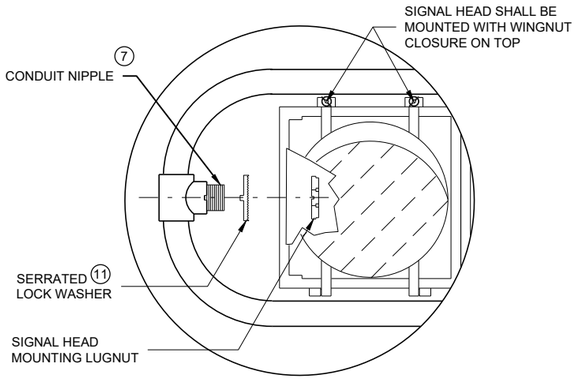
WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD ** MOUNTING DETAIL

** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 3/8 INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 3/8" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED. UNDER MAX LOADING, TYPE 3 POLE SHALL BE MOUNTED DIRECTLY TO ITS CONCRETE BASE.

(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

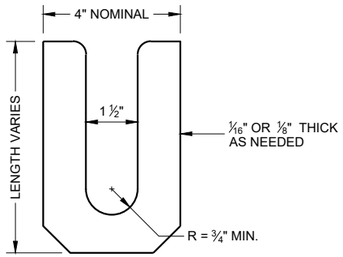
TYPE 3 POLE MOUNTING CONFIGURATION

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS TYPE 3 (HEAVY DUTY)

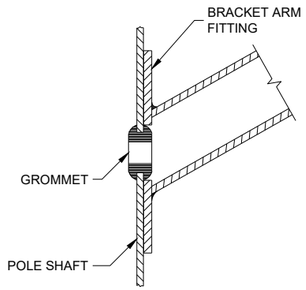
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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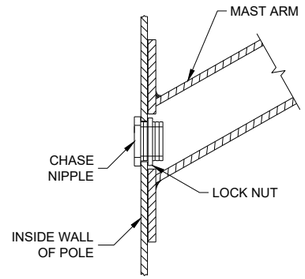
SDD 09E01 - 15b



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

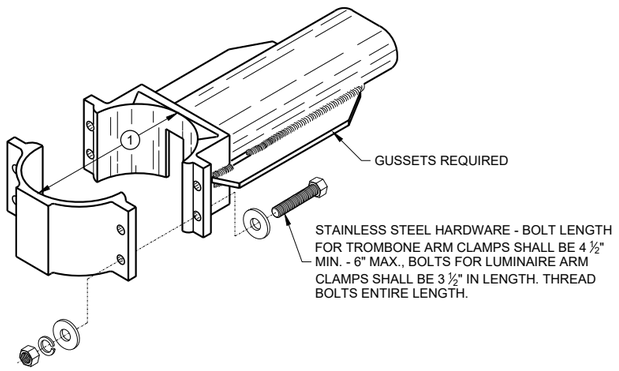
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

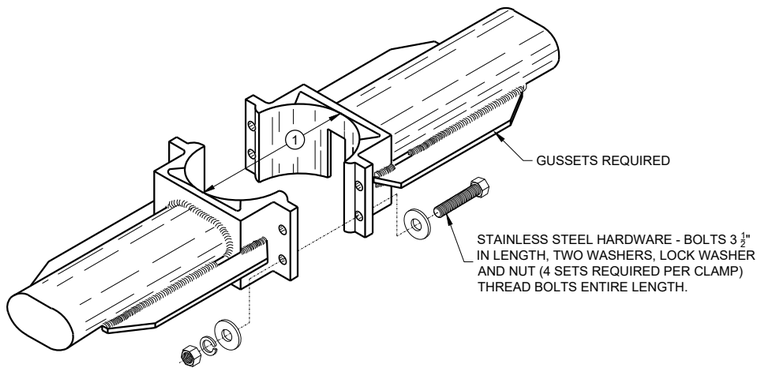
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

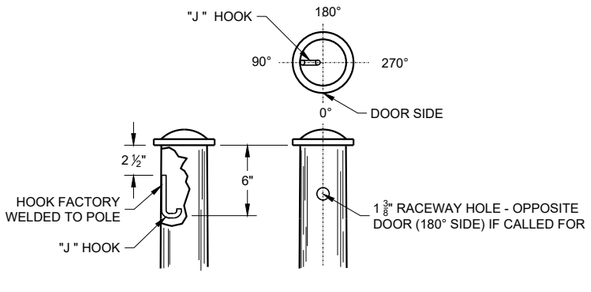
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



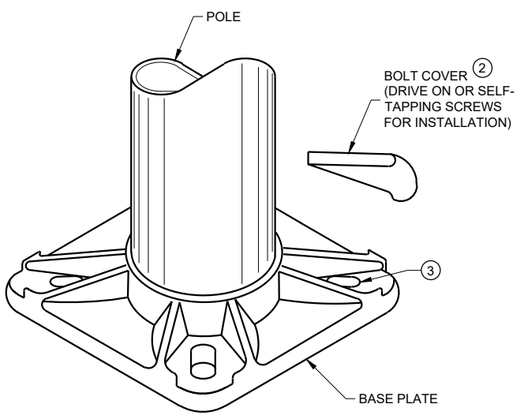
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



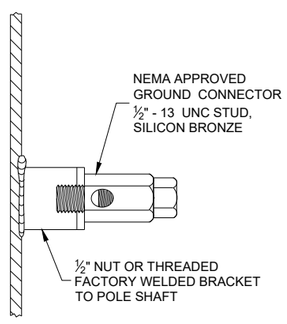
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

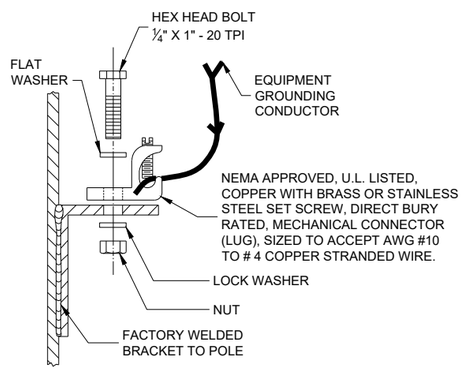


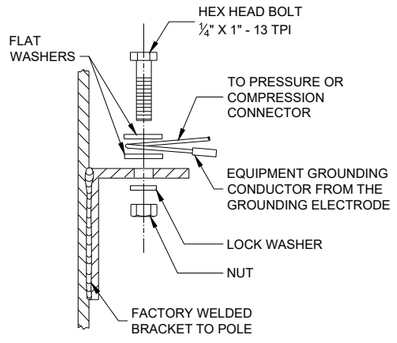
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 586

FHWA

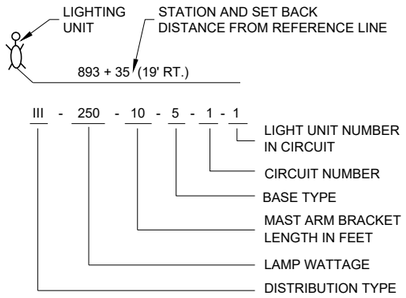
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SDD 09E01 - 15g

GENERAL NOTES

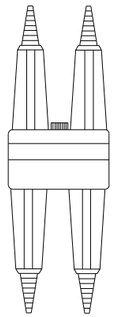
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

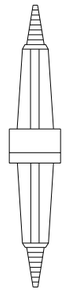
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



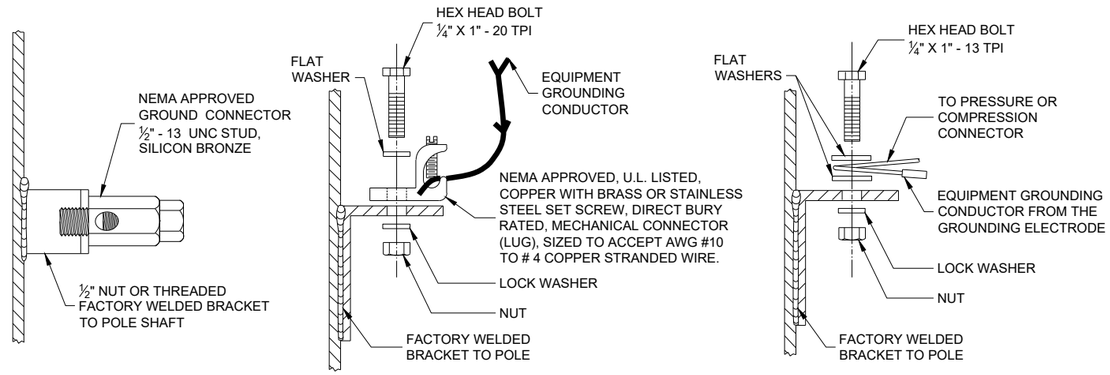
LIGHTING UNIT CODE
(TYPICAL)



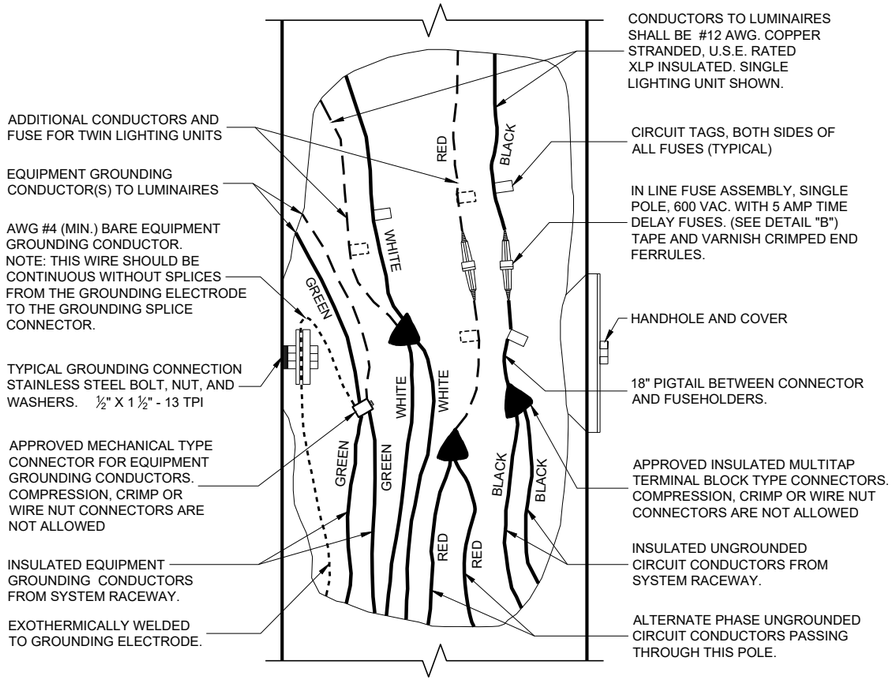
DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



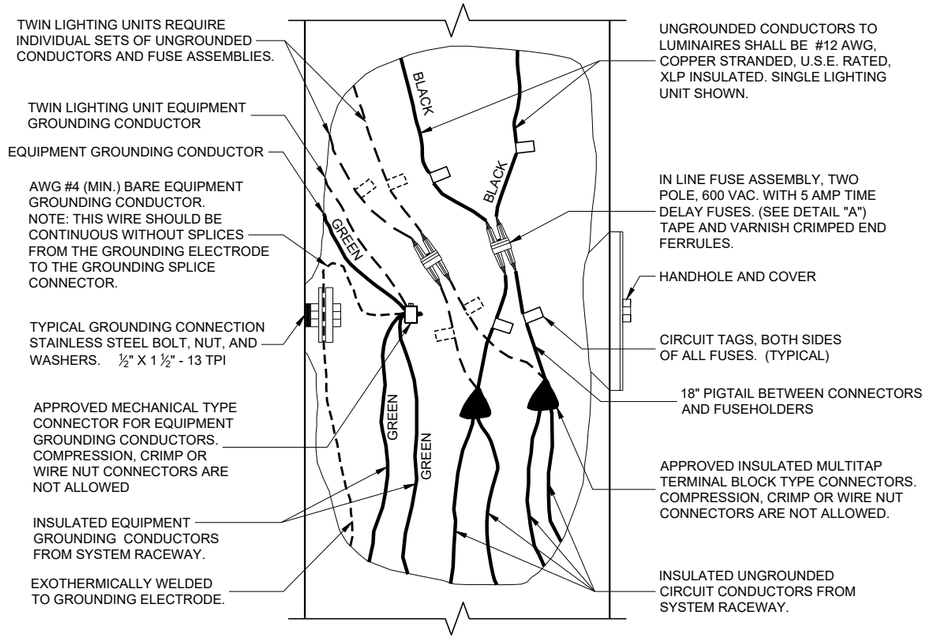
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



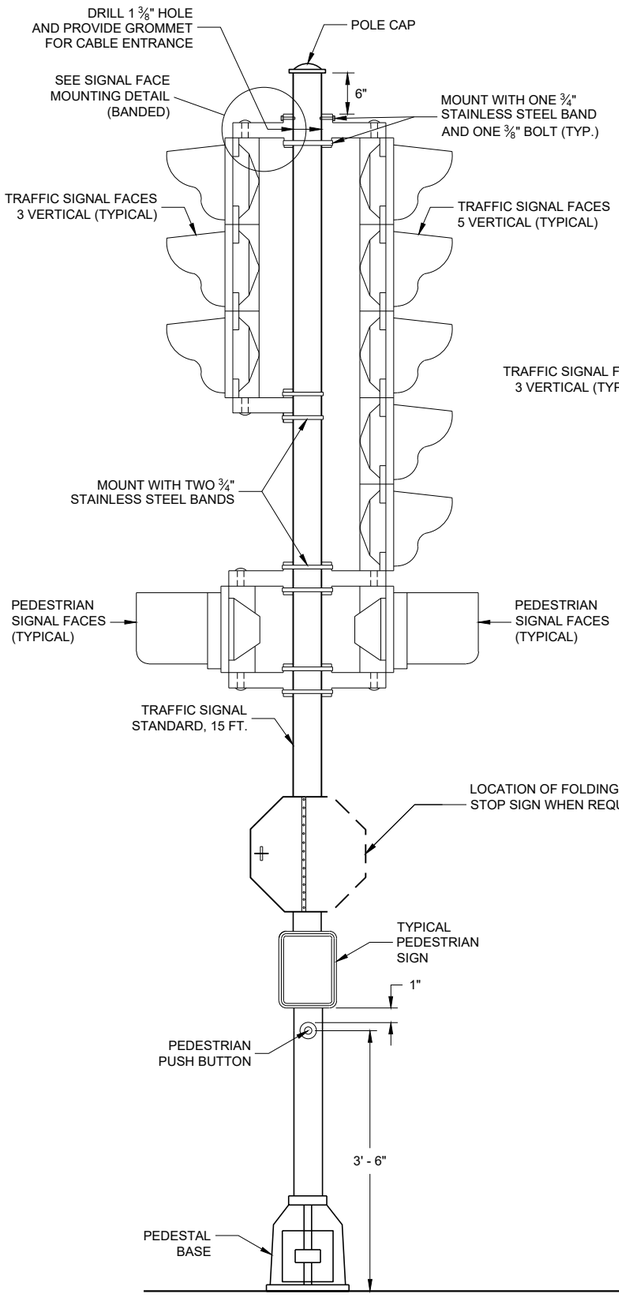
2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

NON - FREEWAY LIGHTING UNIT POLE WIRING

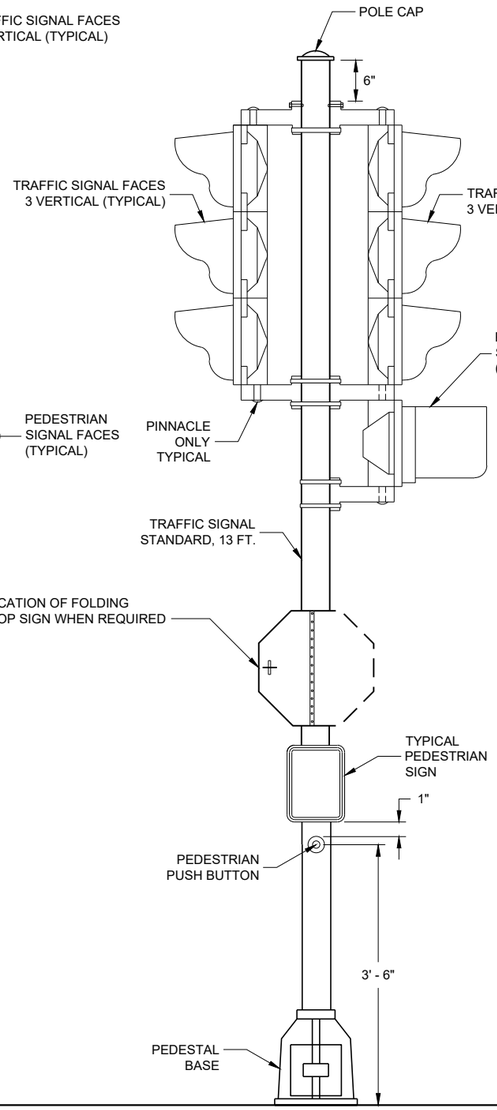
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 587

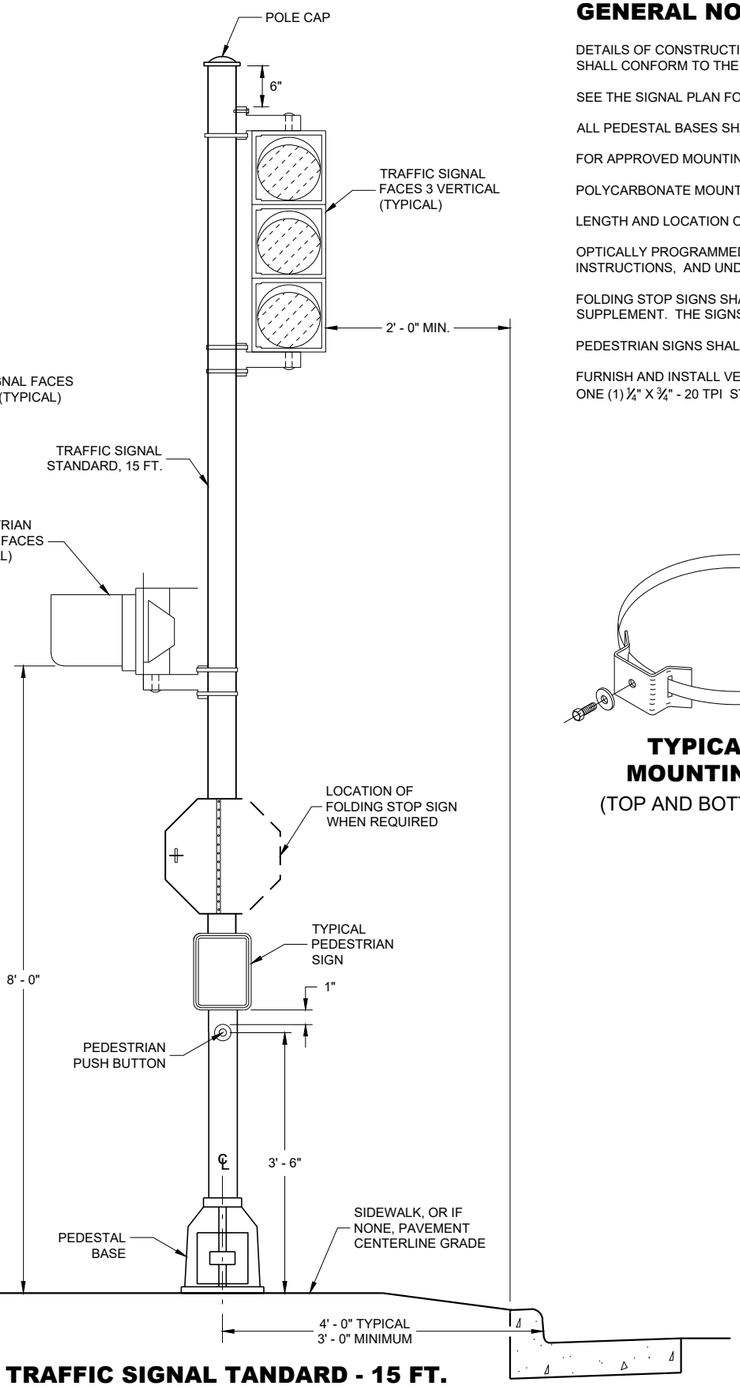
FHWA



TRAFFIC SIGNAL STANDARD - 15 FT.



TRAFFIC SIGNAL STANDARD - 13 FT.



TRAFFIC SIGNAL TANDARD - 15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

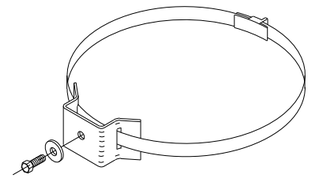
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

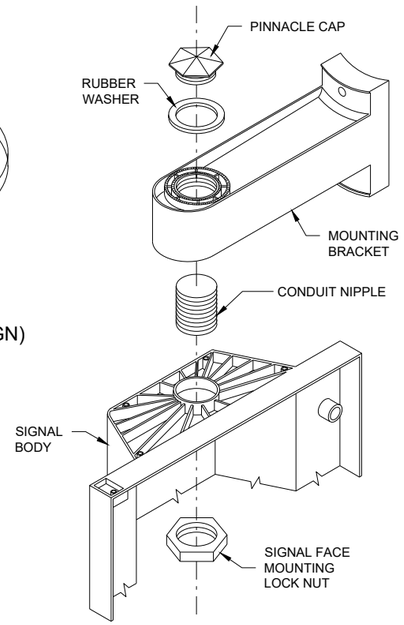
FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



SIGNAL FACE MOUNTING DETAIL (BANDED)

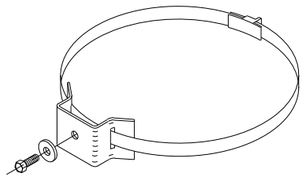
TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

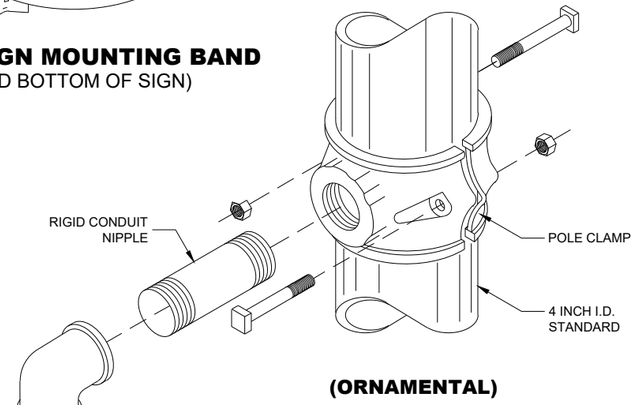
APPROVED
2/28/2013
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 588

FHWA

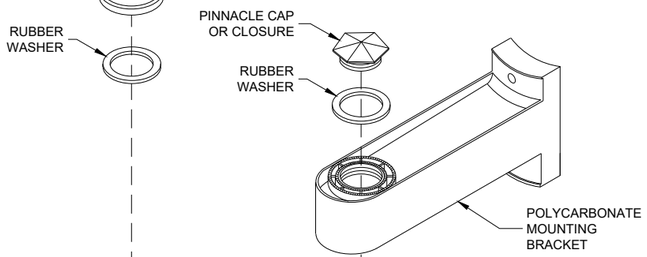
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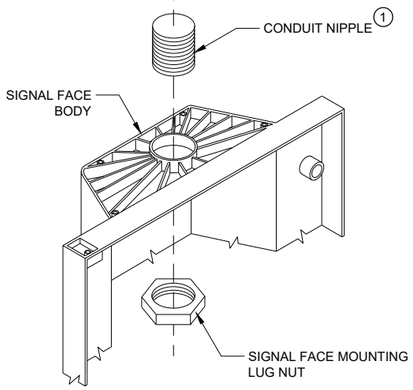
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



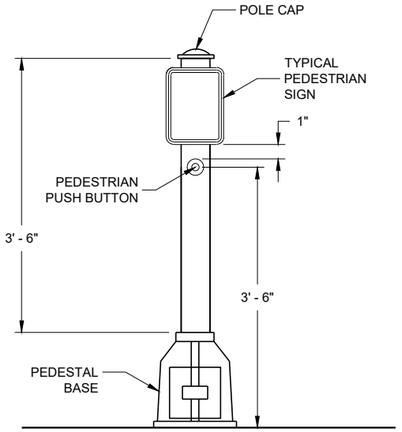
(ORNAMENTAL)



(BANDED)



SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

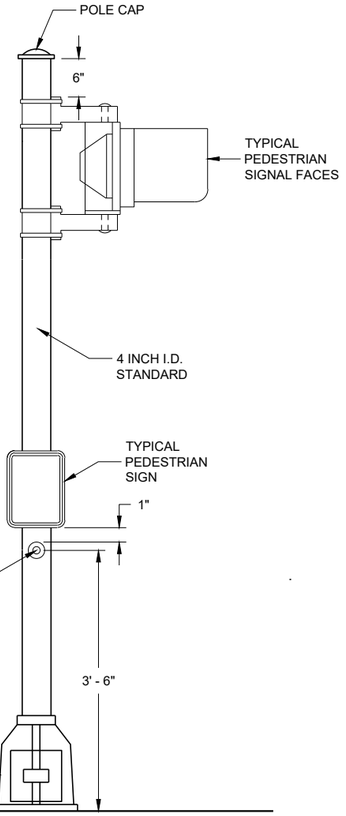
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

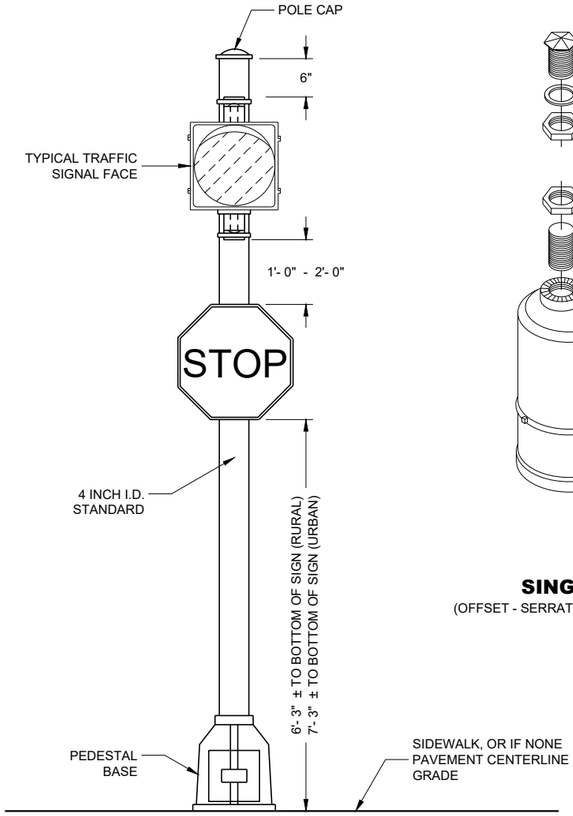
PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

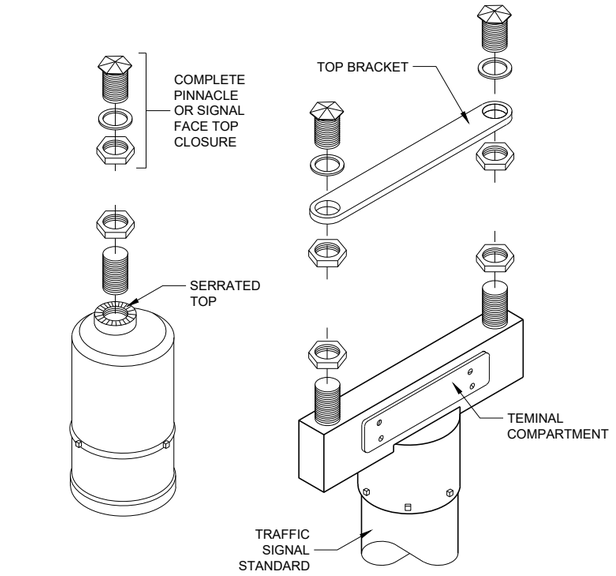
(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACESAND BRACKET ENDS.



PEDESTRIAN FACE STANDARD - 10 FT.
(WALK - DON'T WALK)



STANDARD FLASHER
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



SINGLE
(OFFSET - SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD
PEDESTRIAN AND FLASHER
TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
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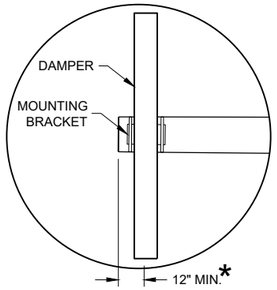
APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 589

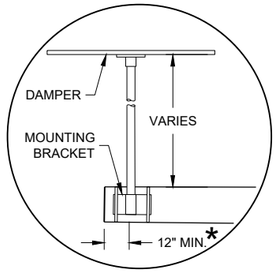
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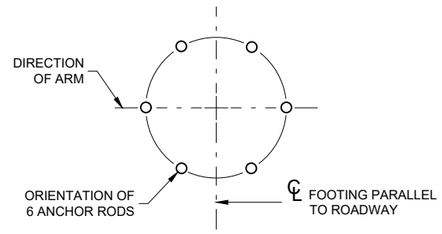


DUMBBELL VIBRATION DAMPER

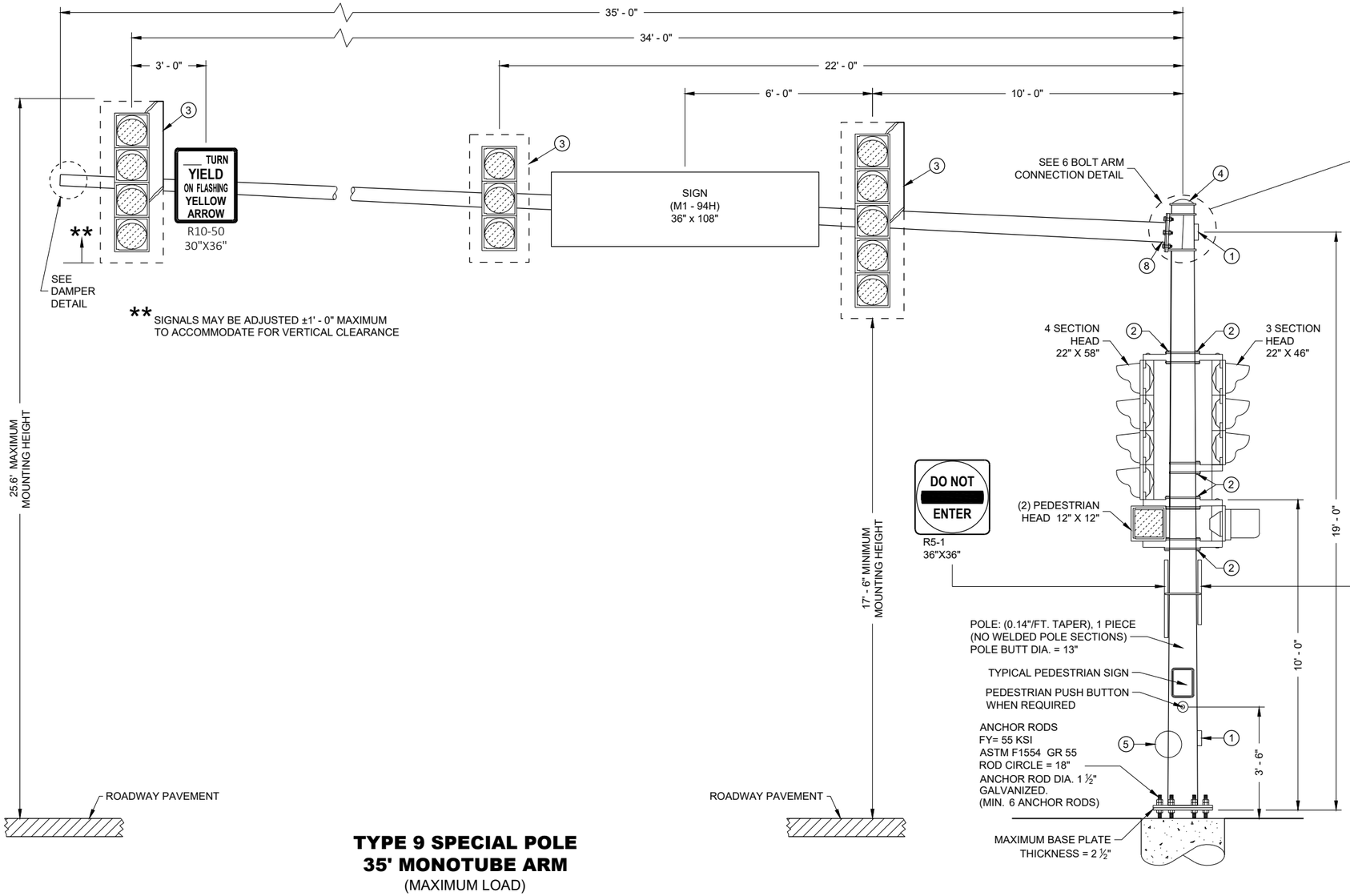


FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.

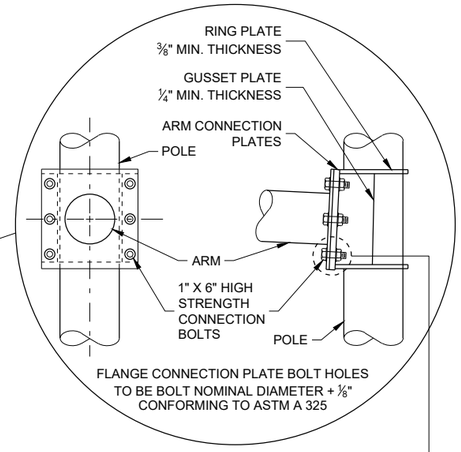


ANCHOR ROD LOCATION

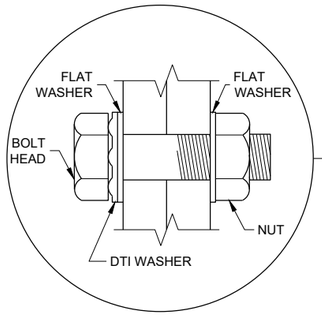


** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM

STATE OF WISCONSIN
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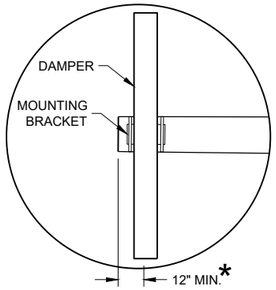
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 590

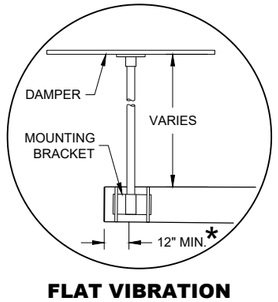
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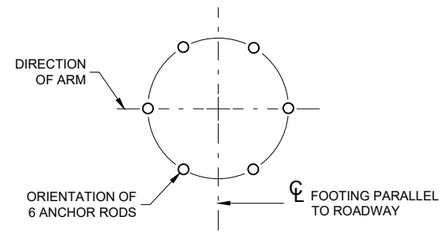


DUMBBELL VIBRATION DAMPER

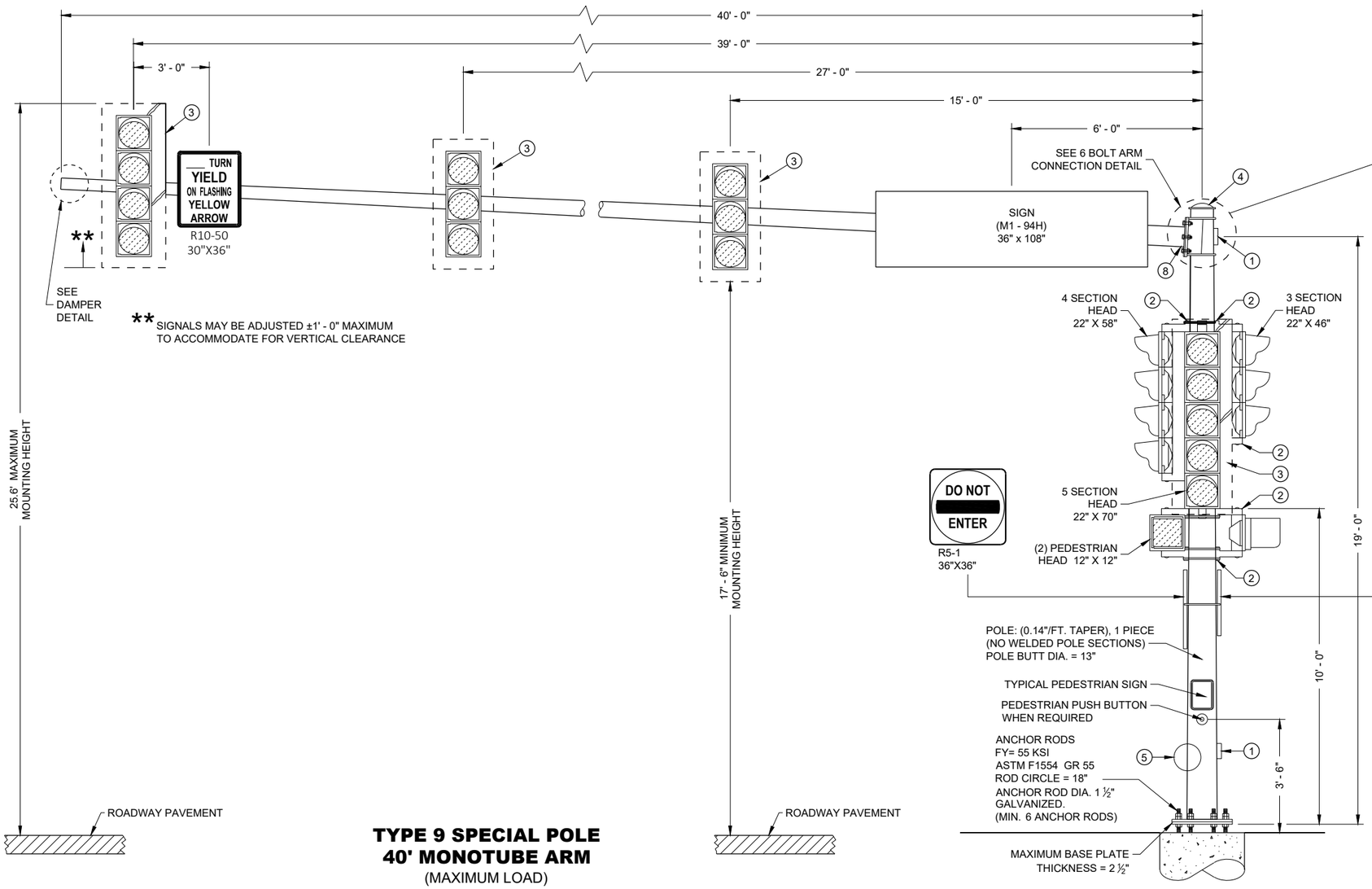


FLAT VIBRATION DAMPER

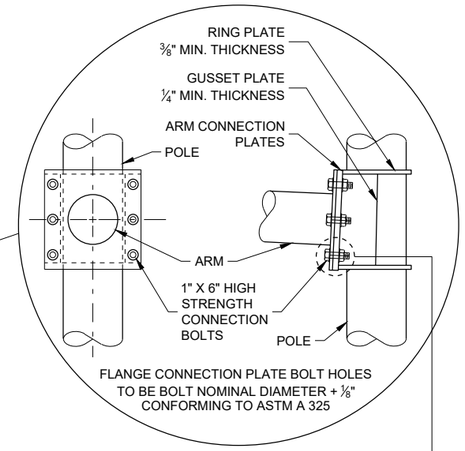
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



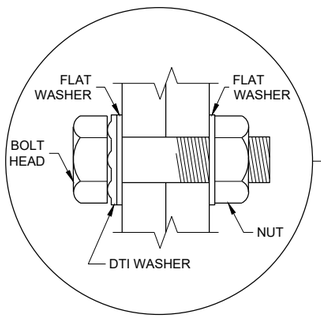
ANCHOR ROD LOCATION



TYPE 9 SPECIAL POLE 40' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE 40' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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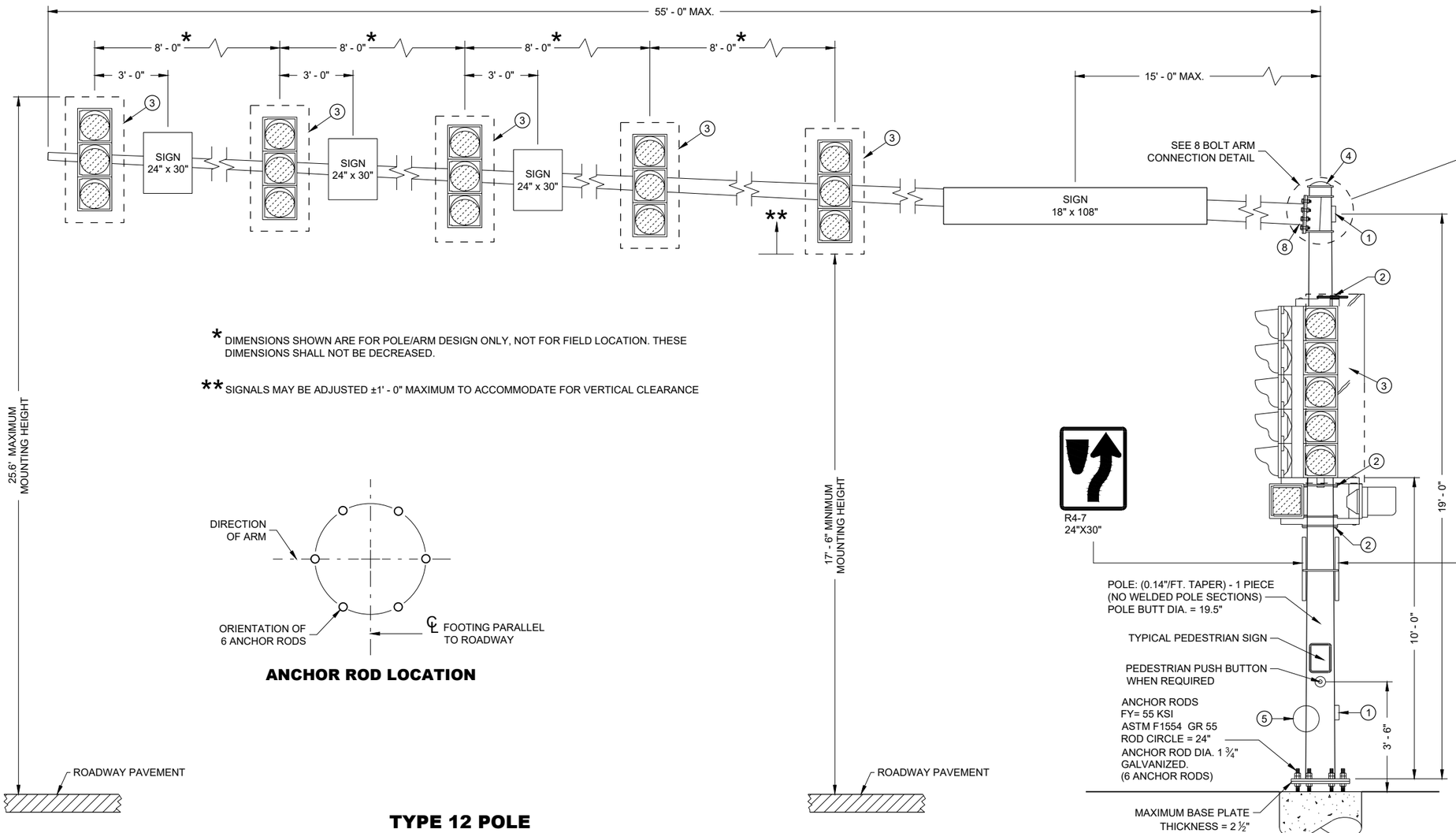
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SDD 09E08 - 09c

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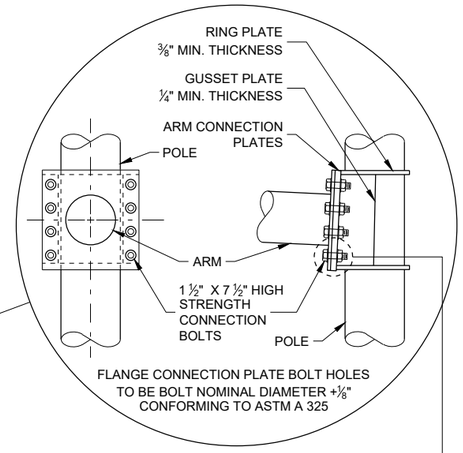
SDD 09E08 - 09c



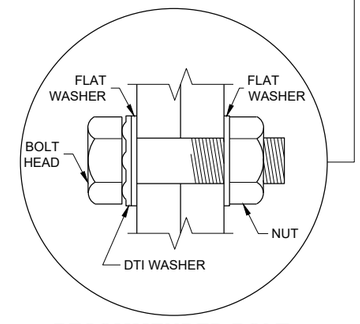
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION



8 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 12 POLE
35' - 55' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 12 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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August 2020
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 592

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SDD 09E08 - 09i

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL.

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES AS FOLLOWS:

CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.

CATEGORY II FATIGUE LOADS OF TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM.

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEAD AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION SECTION 658).

(3) SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

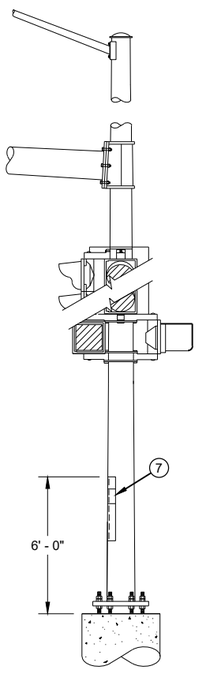
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

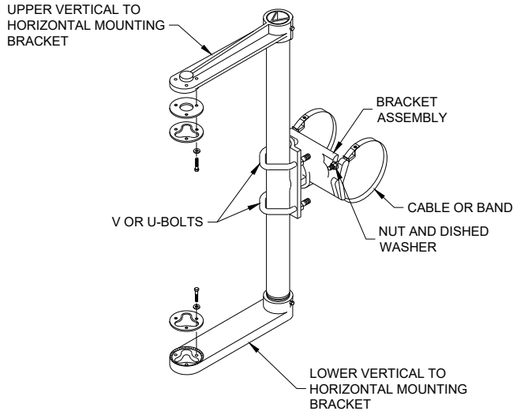
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

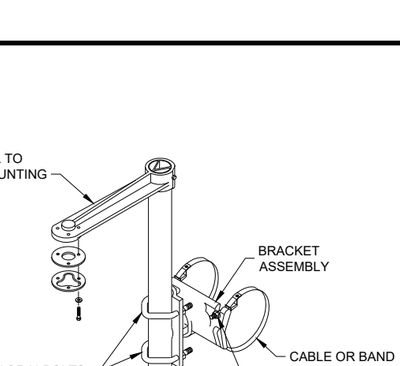


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



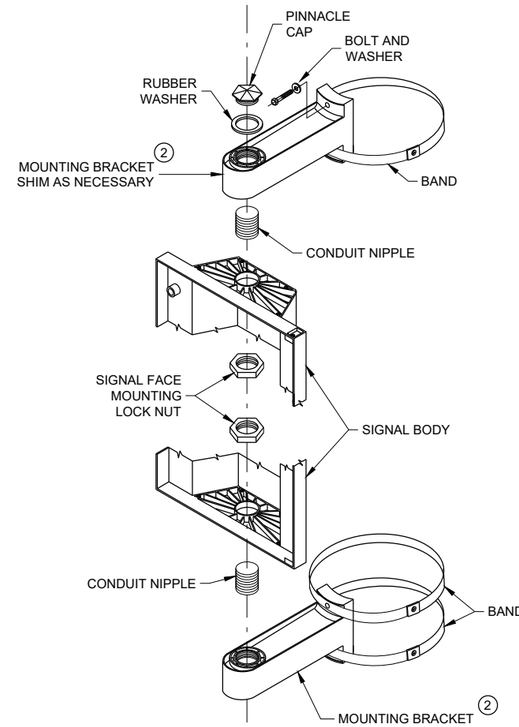
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

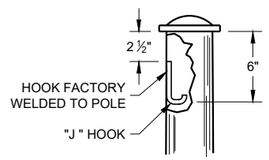


TYPICAL GROUNDING (5) CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK (6) WIRE SUPPORT

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

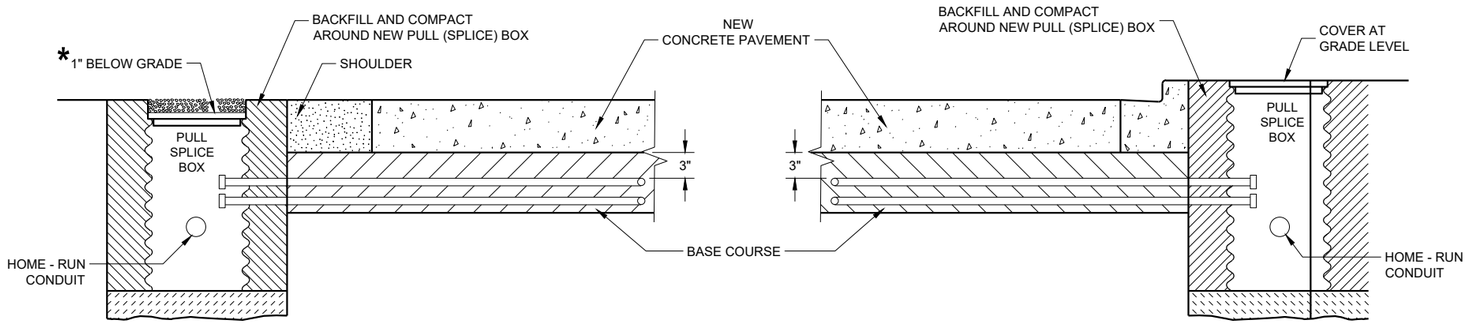
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

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SECTION A - A
NO CURB AND GUTTER

SECTION B - B
CURB AND GUTTER

* RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

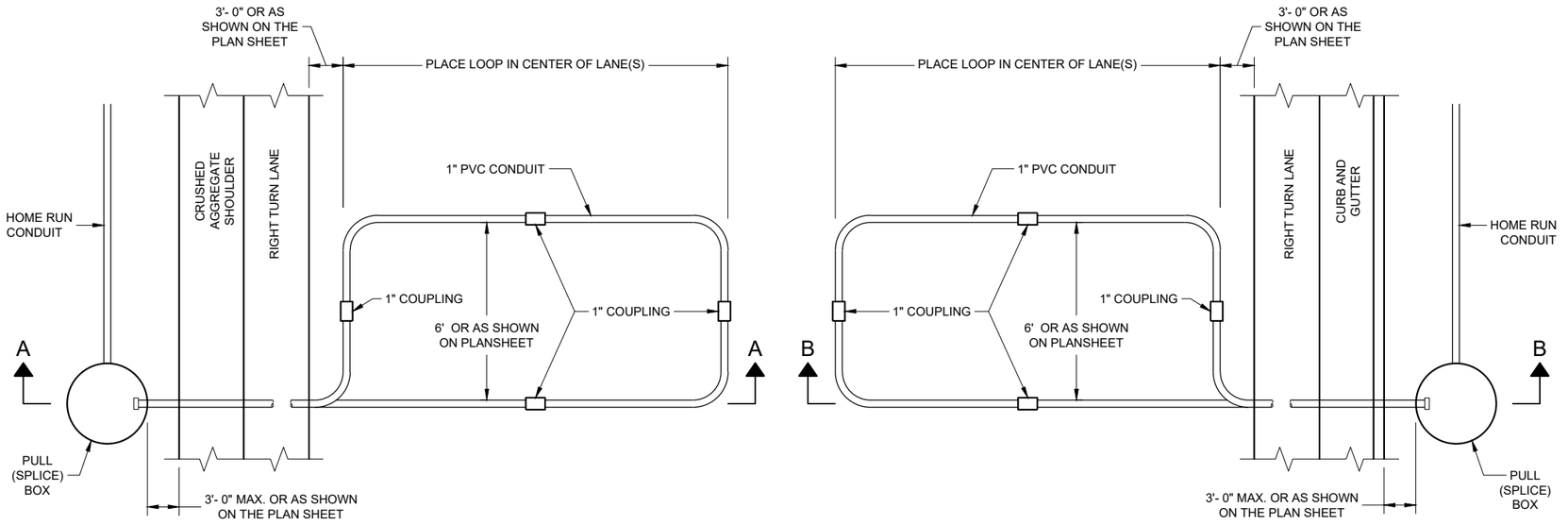
THE #12 AWG LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

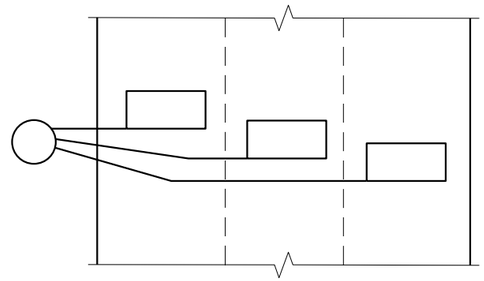
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

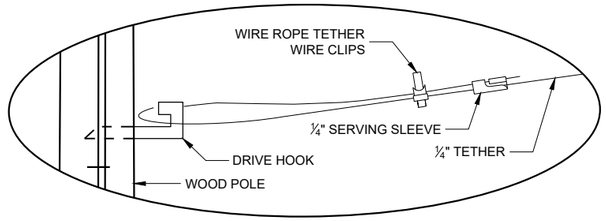
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

6
SDD 09F15 - 04b

MINIMUM POLE LENGTHS	POLE BURIAL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

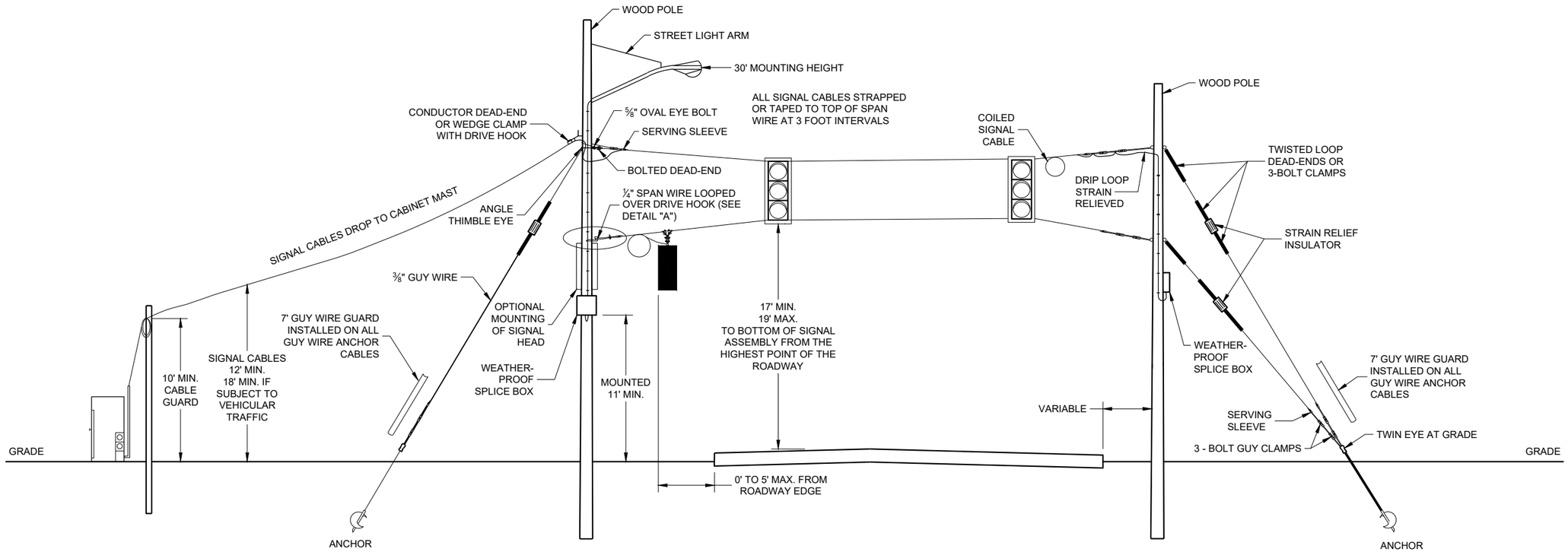


DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 595

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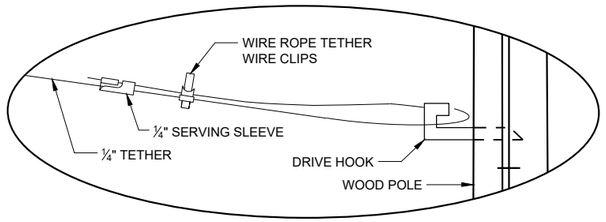
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SDD09G01 - 04a

SDD09G01 - 04a

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

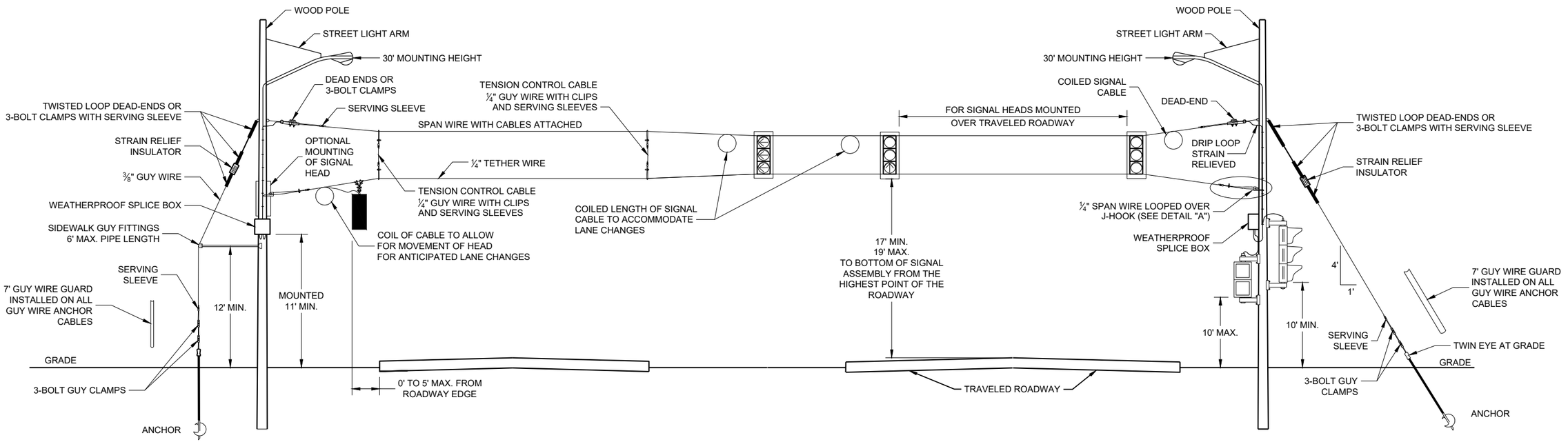


DETAIL "A"

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   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 596
FHWA

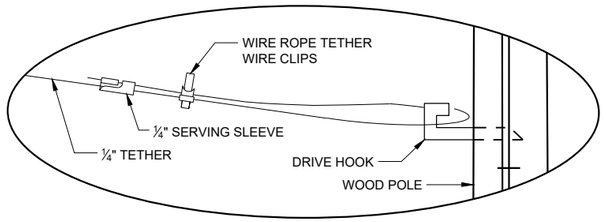
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SDD09G01 - 04b

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SDD09G01 - 04b

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

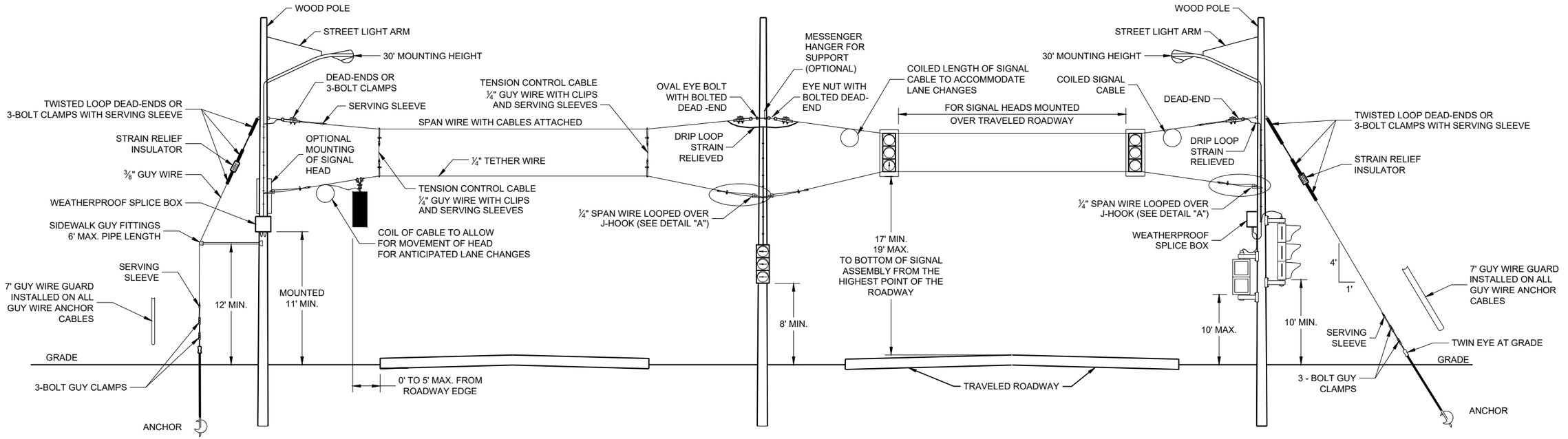


DETAIL "A"

GENERAL NOTES

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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

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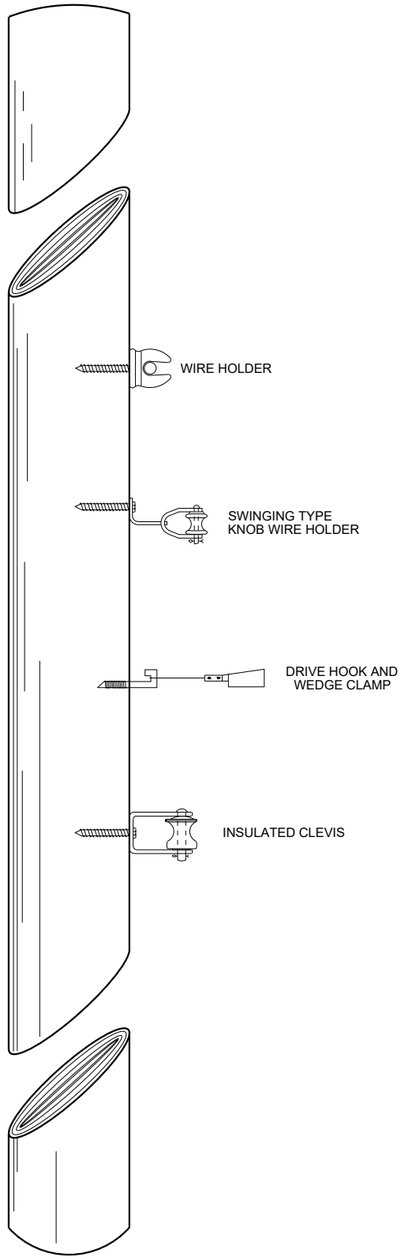
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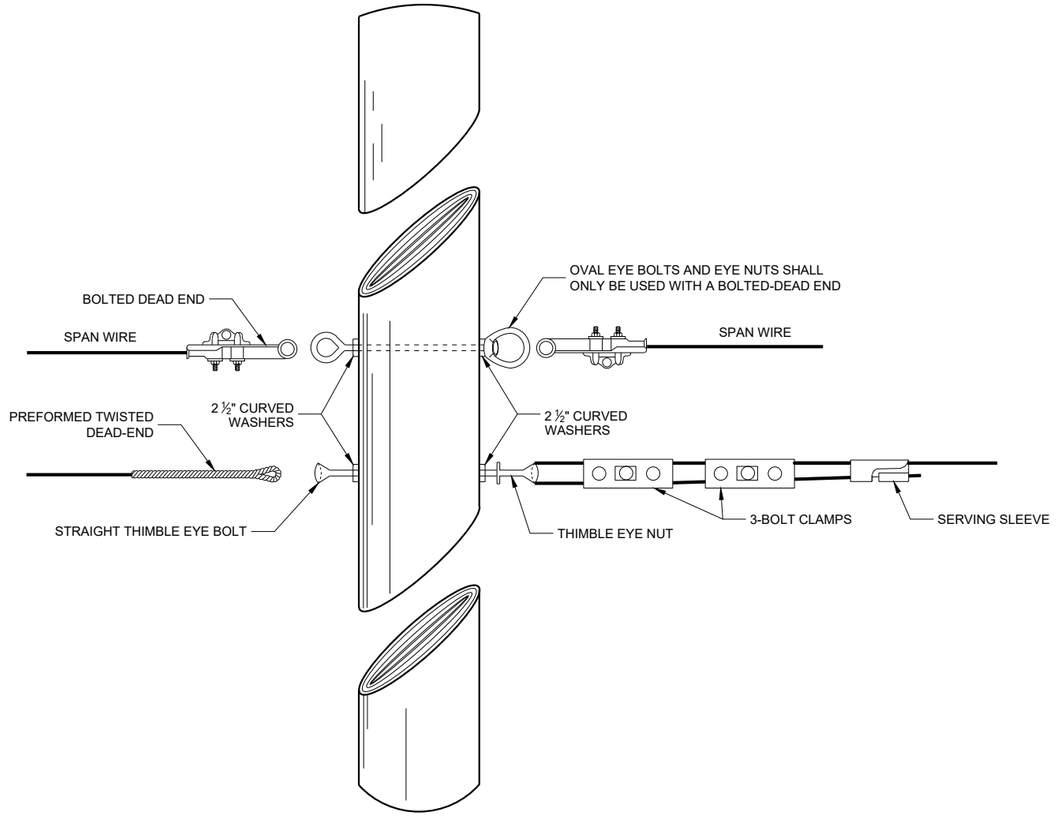
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SDD09G01 - 04c

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SDD09G01 - 04c





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SDD 09G01 - 4d

SDD 09G01 - 4d

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

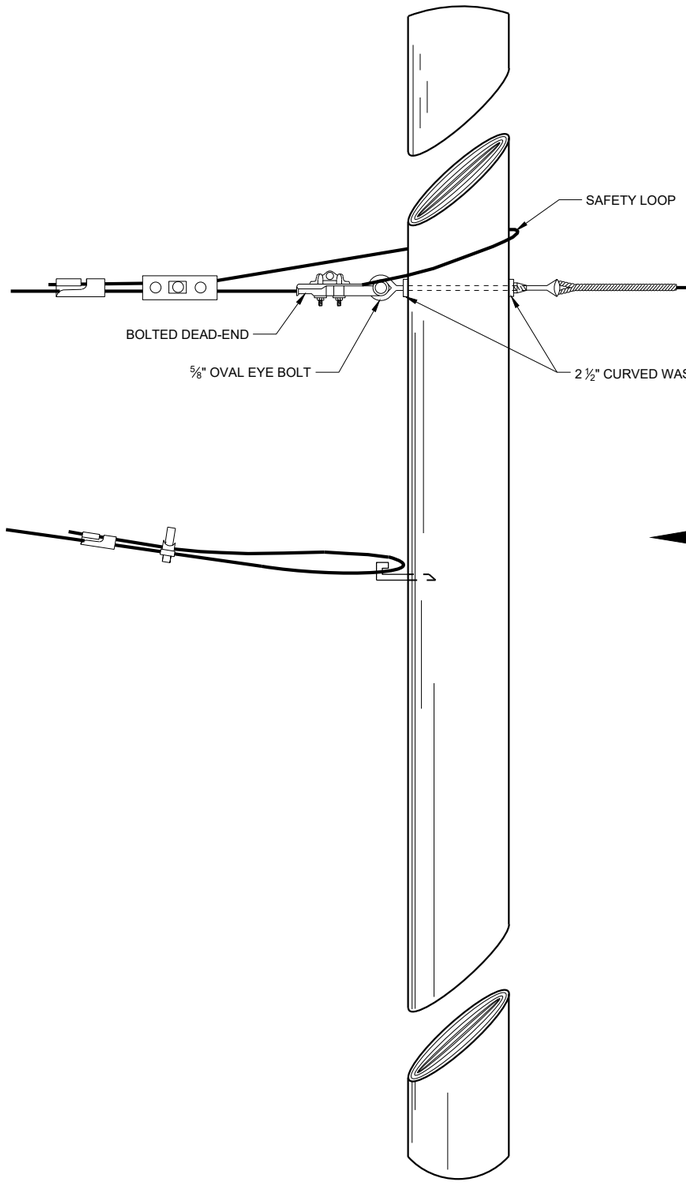
June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

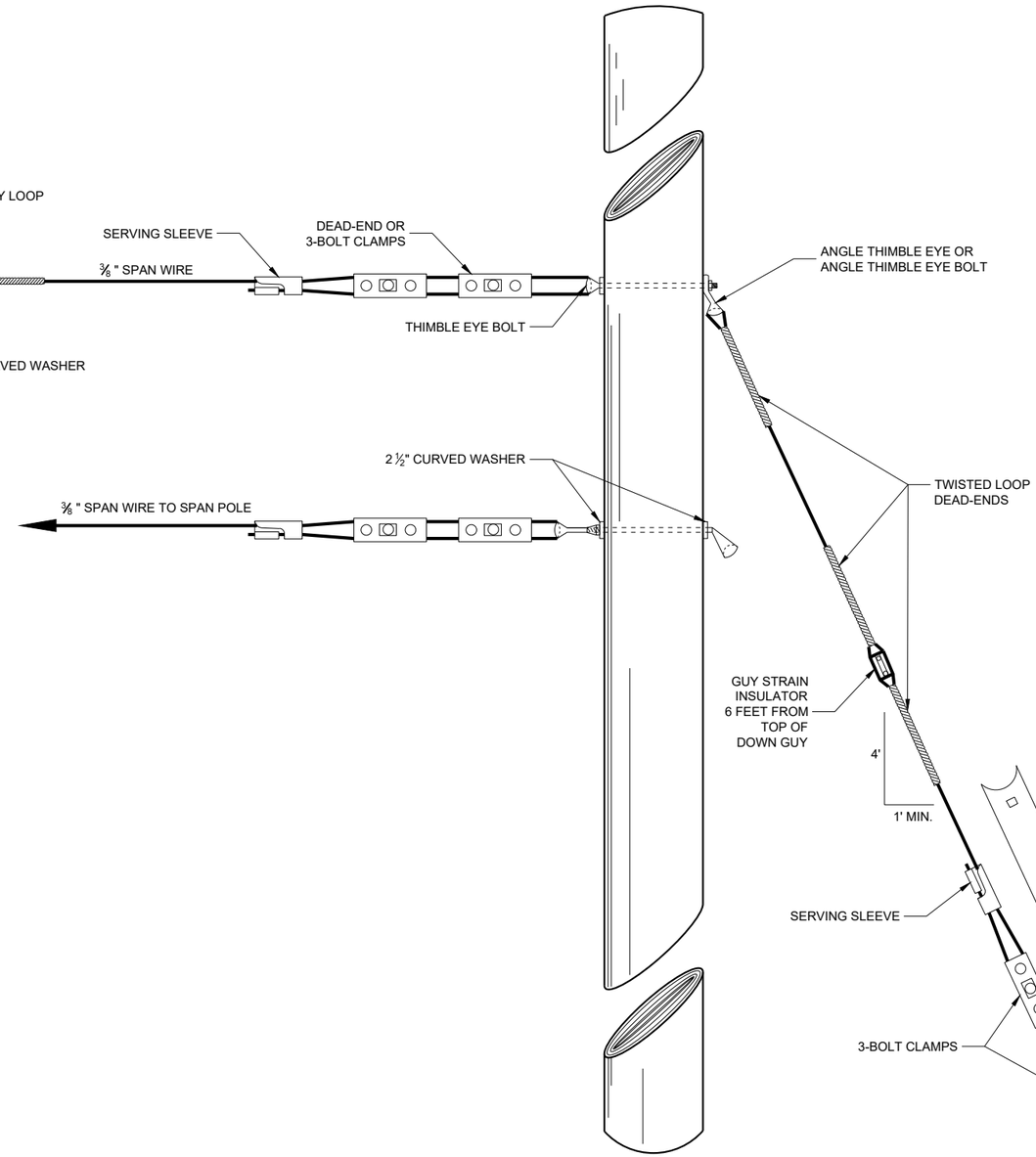
FHWA

GENERAL NOTES

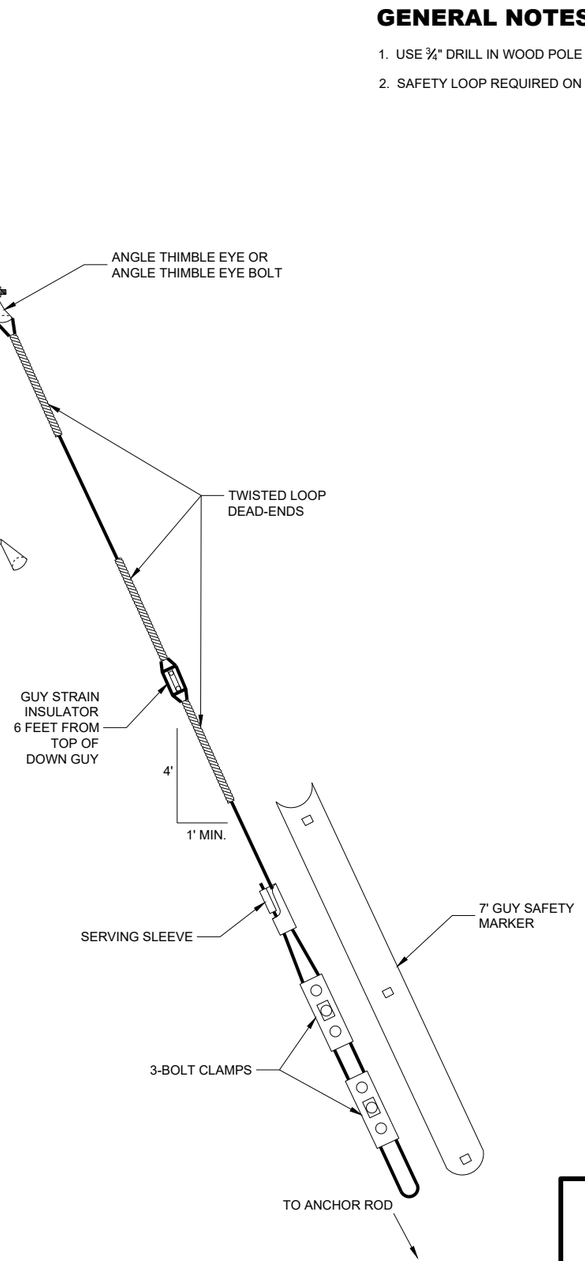
1. USE ¾" DRILL IN WOOD POLE TO PROVIDE FOR ⅝" BOLTS.
2. SAFETY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE



GUY POLE



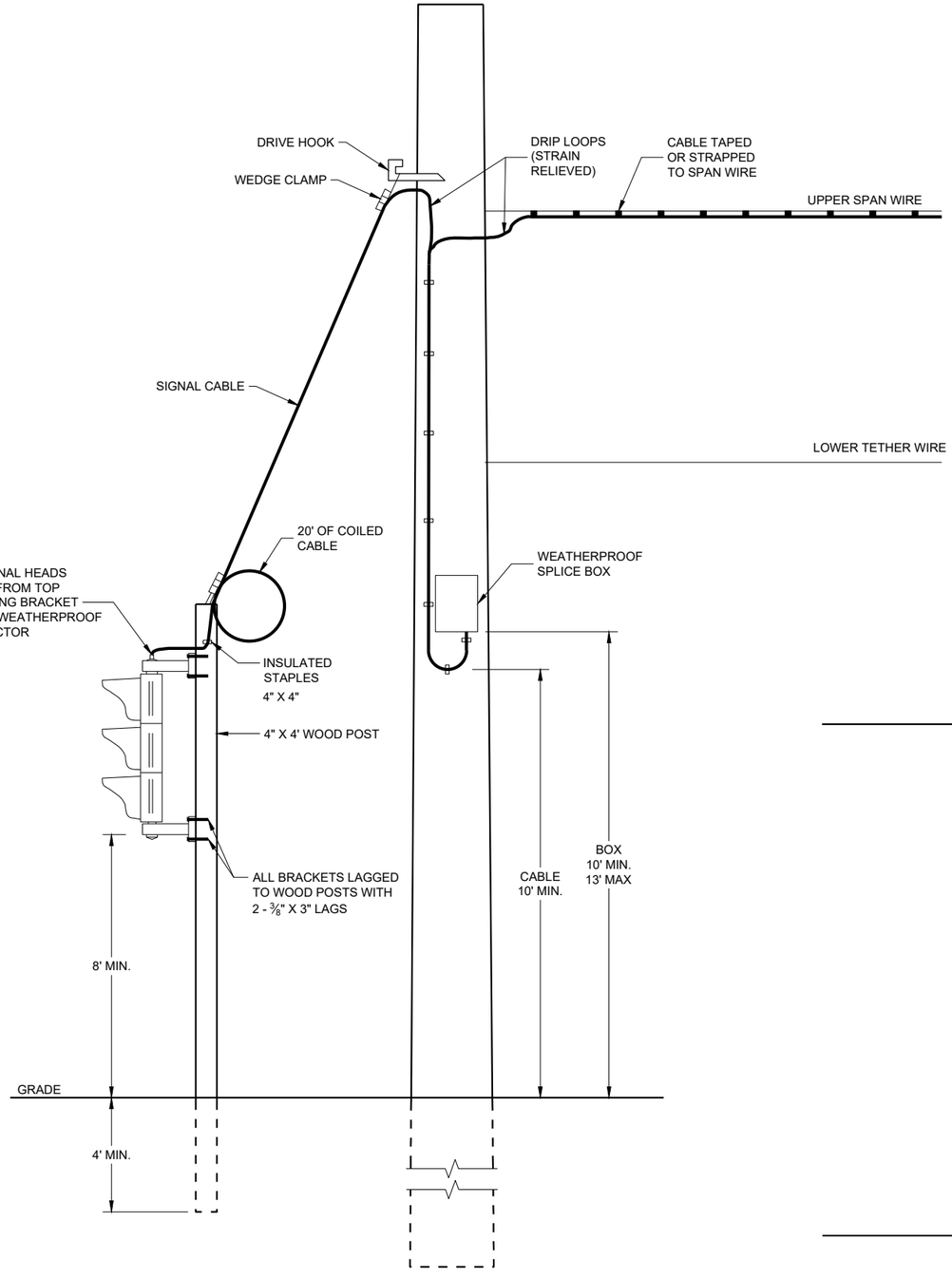
TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

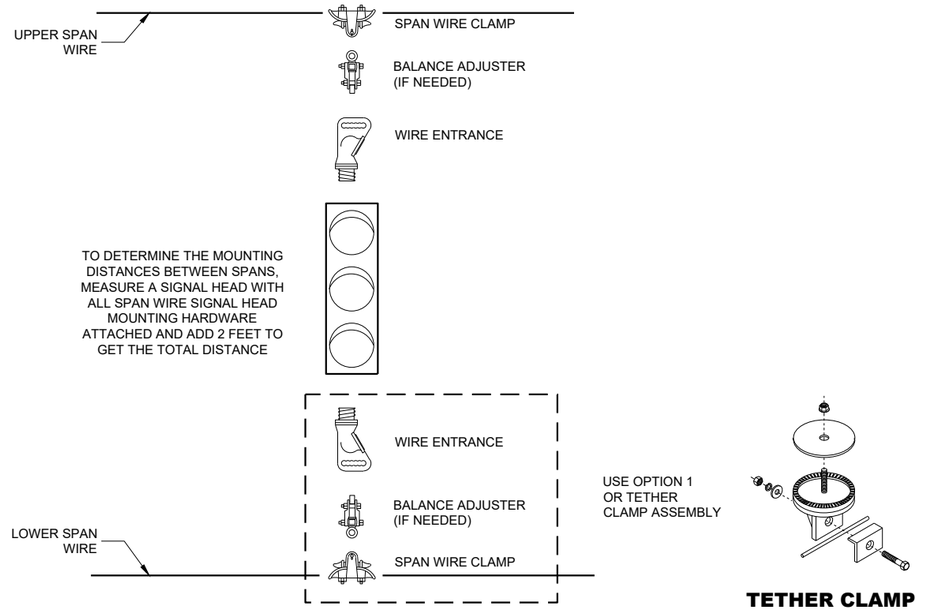
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — ROADWAY STANDARDS DEVE ENGINEER
FHWA

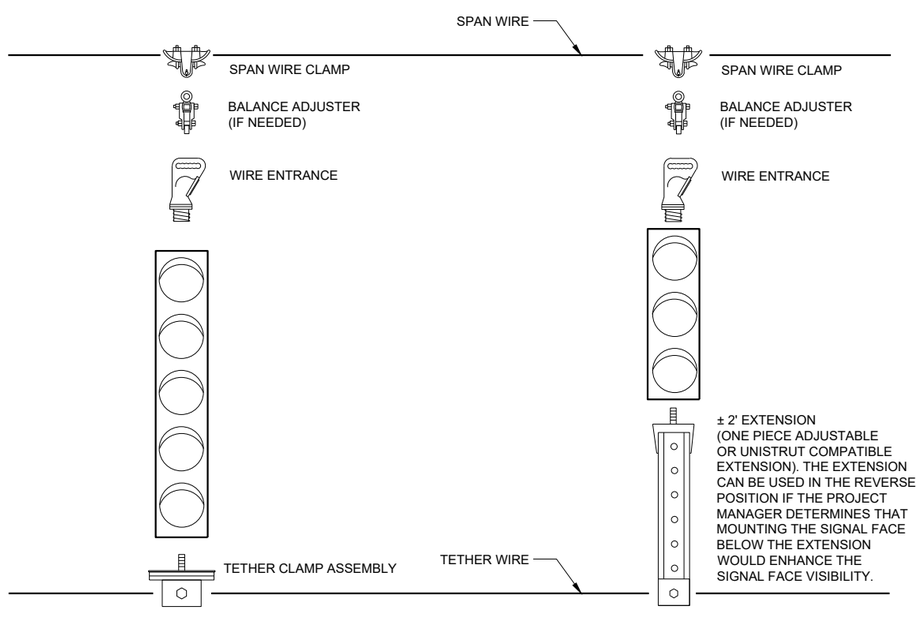
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SDD 09G01 - 4e



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

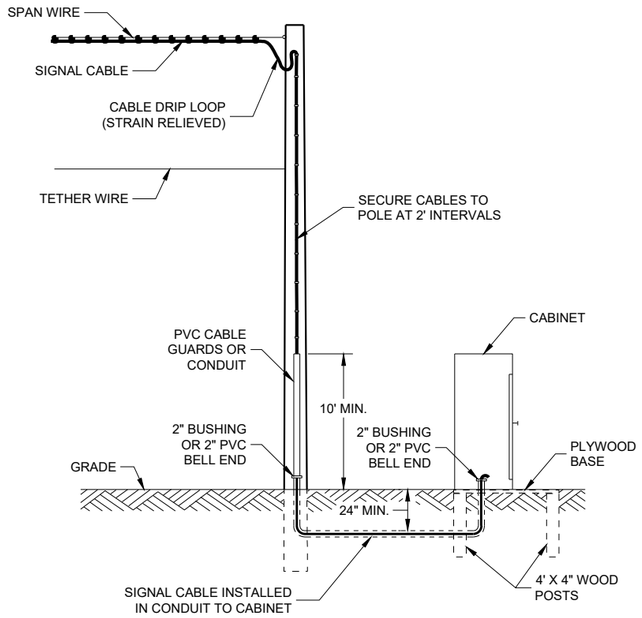
SPAN WIRE TEMPORARY TRAFFIC SIGNAL

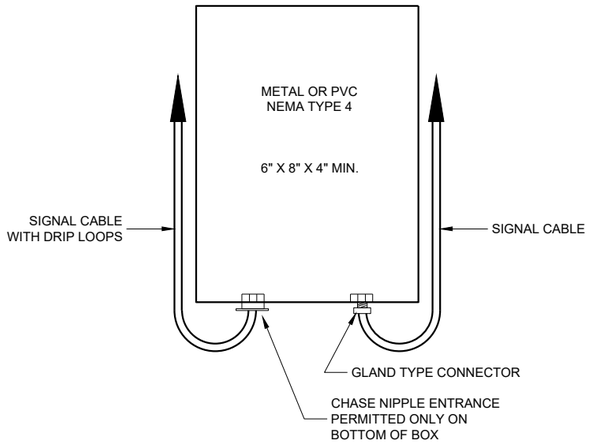
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — ROADWAY STANDARDS DEVE ENGINEER
600

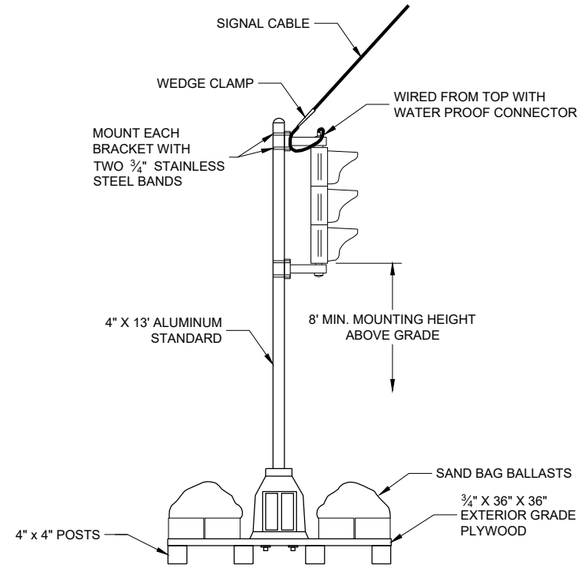
FHWA

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SDD 09G01 - 4f

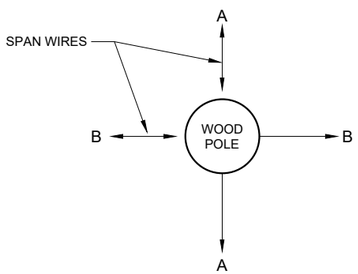




SPLICE BOX

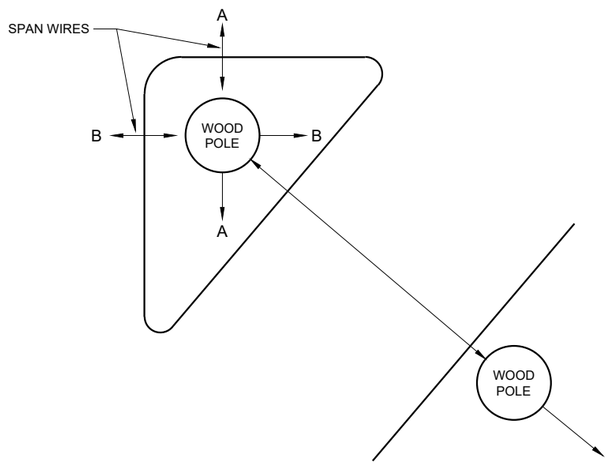


TYPICAL SKID TYPE TEMPORARY

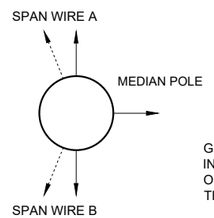


ALL DOWN OR SIDEWALK GUYS SHALL BE INSTALLED IN THE OPOSITE DIRECTION OF THE STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM INTERSECTION OR IN OPPOSITE DIRECTION OF THE SPAN LOADING

MEDIAN POLES

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

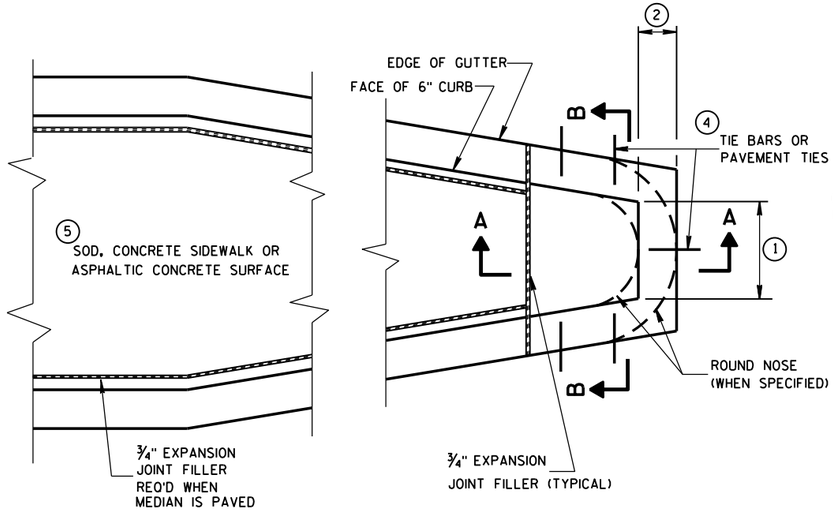
FHWA

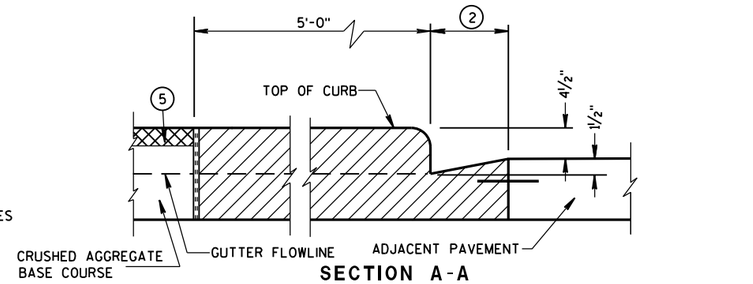
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SDD 09G01 - 4g

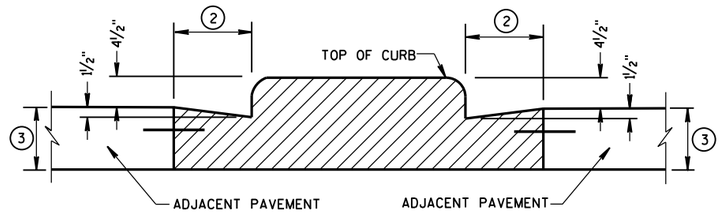
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SDD 09G01 - 4g





SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

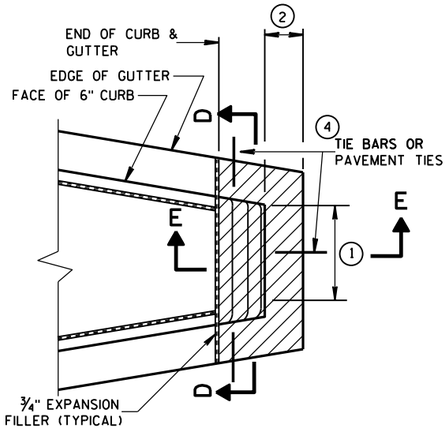
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

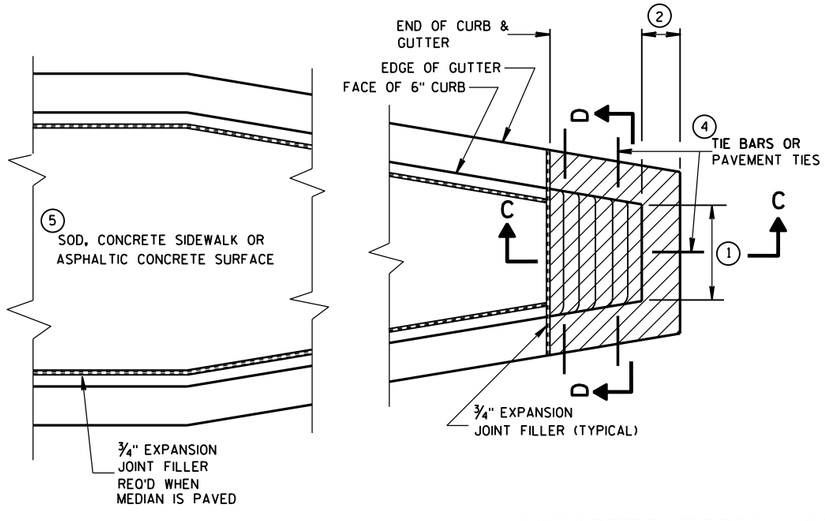
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

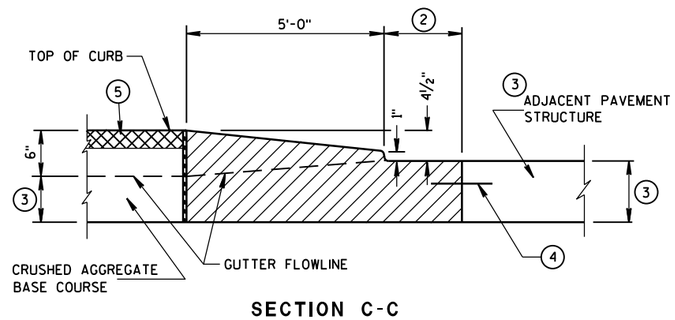
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

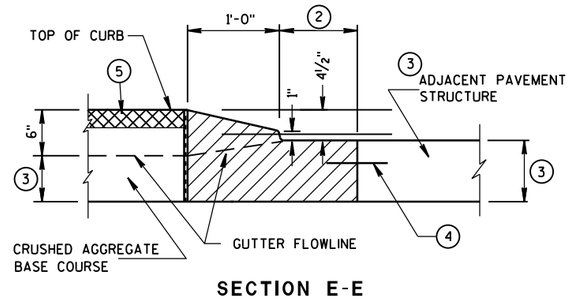
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.







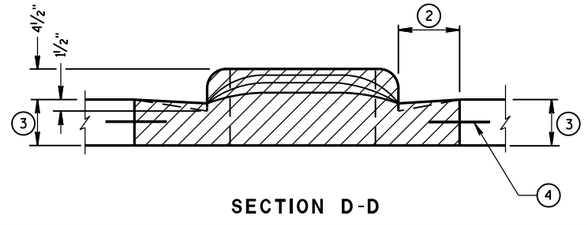
SECTION C-C



SECTION E-E

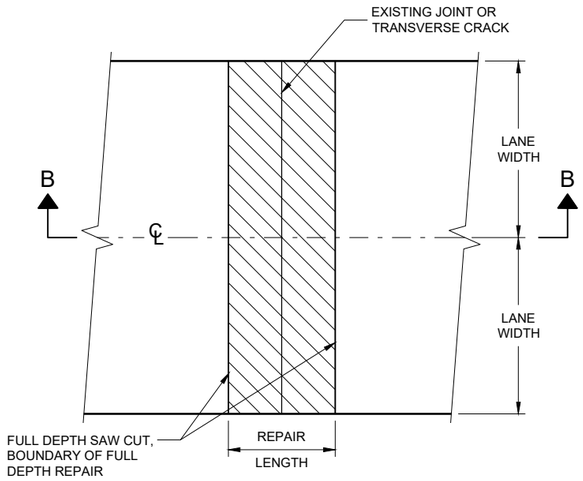
CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1

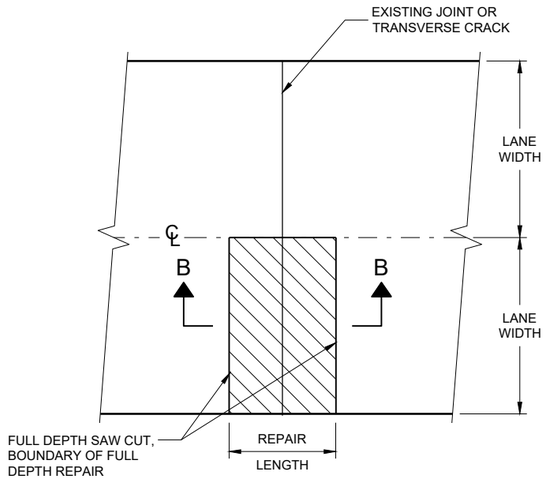


SECTION D-D

CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/2006 DATE FHWA	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER



PLAN VIEW
DOUBLE LANE REPAIR



PLAN VIEW
SINGLE LANE REPAIR

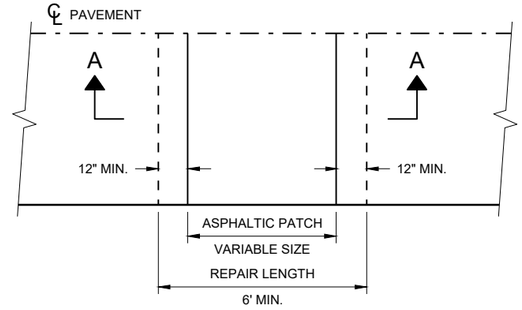
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

PROVIDE A 6 FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREA TO ADJACENT TRANSVERSE JOINT OR CRACK.

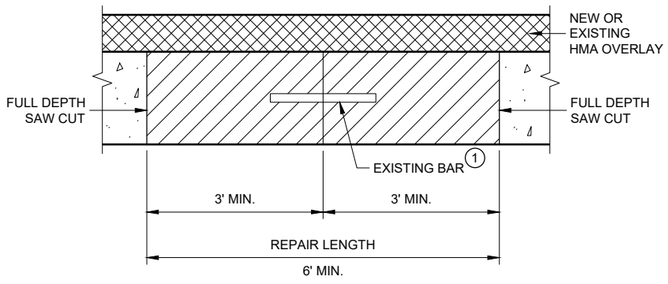
THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NON-DOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

(1) DOWEL BARS MAY NOT BE PRESENT.

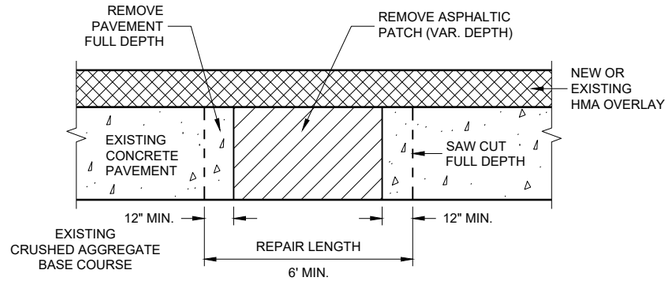


PLAN VIEW

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B - B
CONCRETE REMOVAL

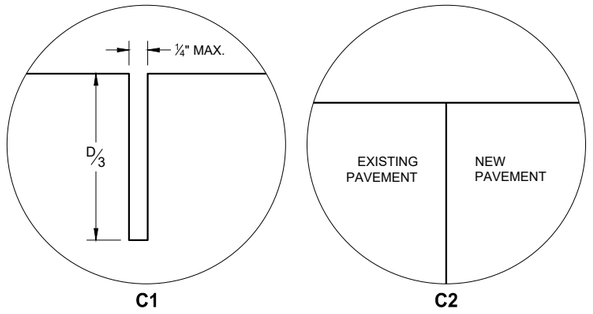


SECTION A - A

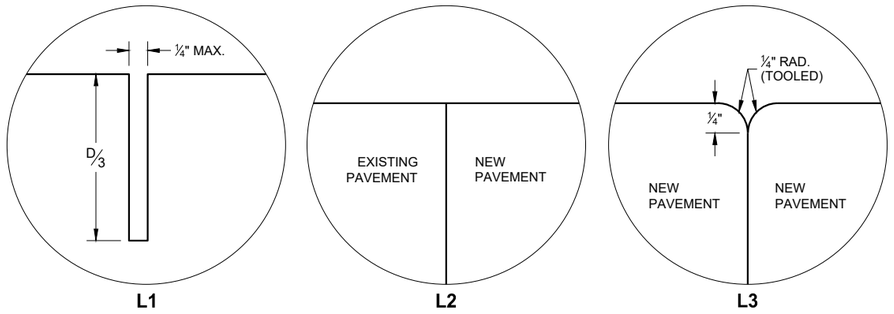
HMA PATCH REMOVAL

BASE PATCHING CONCRETE

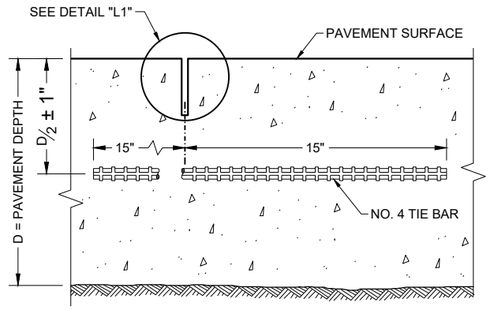
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA 603



TRANSVERSE JOINTS

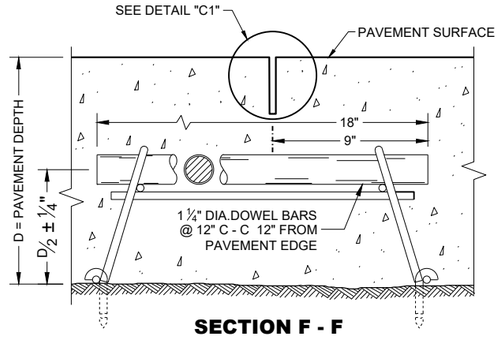


LONGITUDINAL JOINTS



SECTION C - C

SAWED LONGITUDINAL JOINT



SECTION F - F

CONTRACTION JOINT

GENERAL NOTES

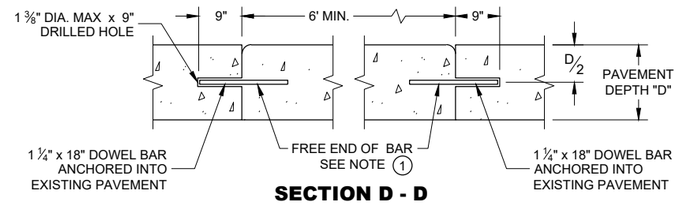
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE BASE PATCHES OF EXISTING NON-DOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

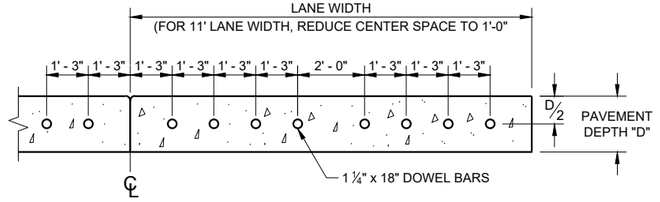
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT O EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

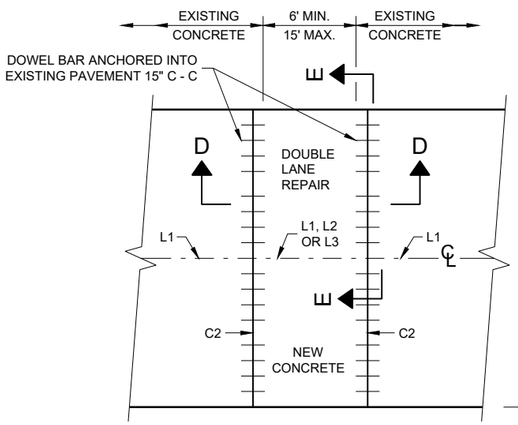


SECTION D - D



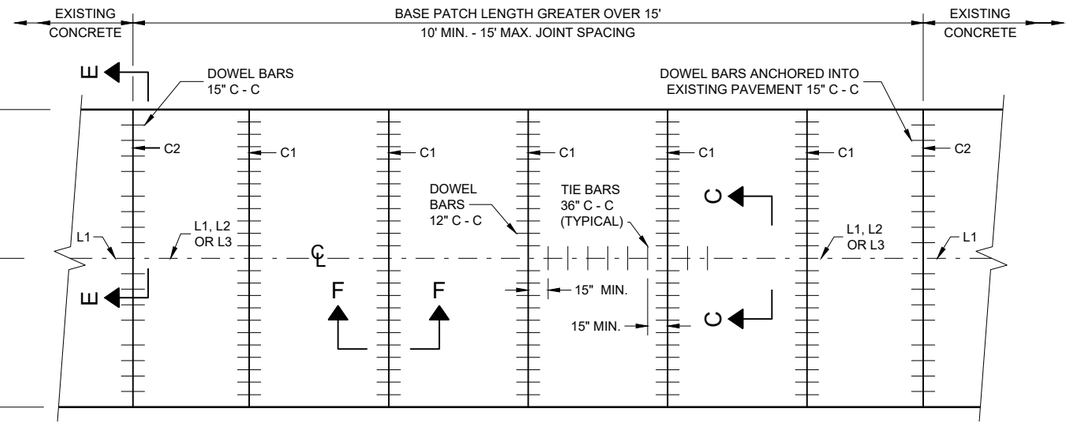
SECTION E - E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW

MULTILANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTILANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

BASE PATCHING CONCRETE

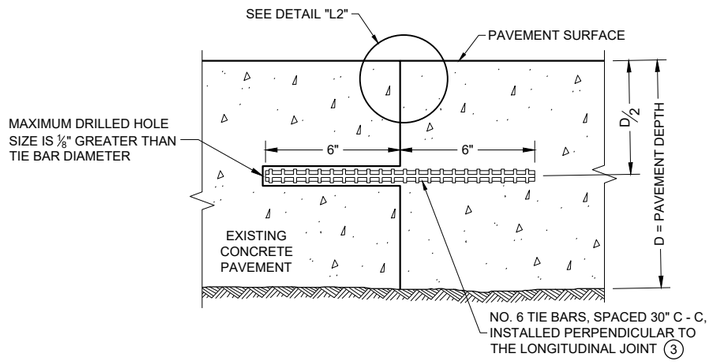
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT 604

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SDD 13C14 - 07b

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SDD 13C14 - 07b

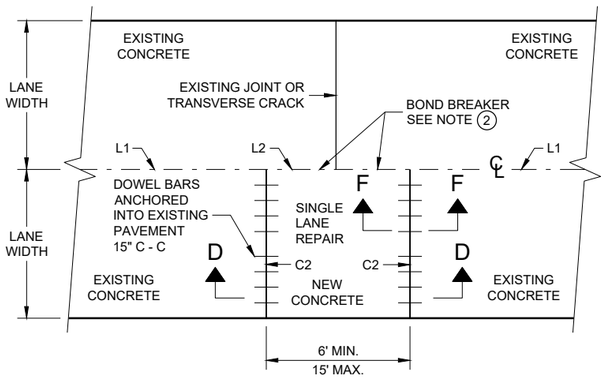


SECTION G - G

TIE BARS ANCHORED INTO EXISTING PAVEMENT

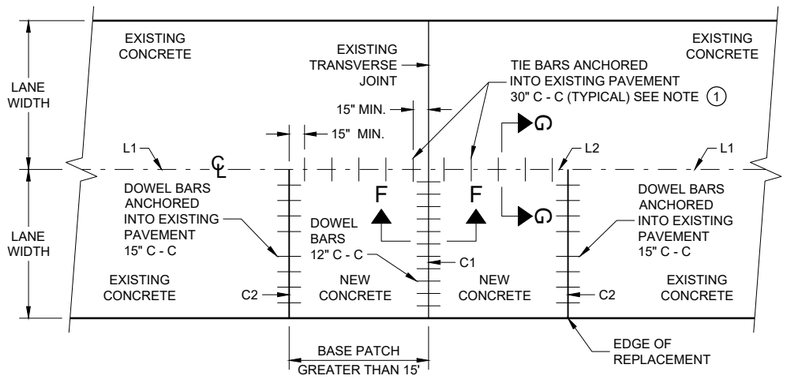
GENERAL NOTES

1. WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
2. USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
3. ANCHOR TIE BARS INTO DRILLED HOES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' LENGTH

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

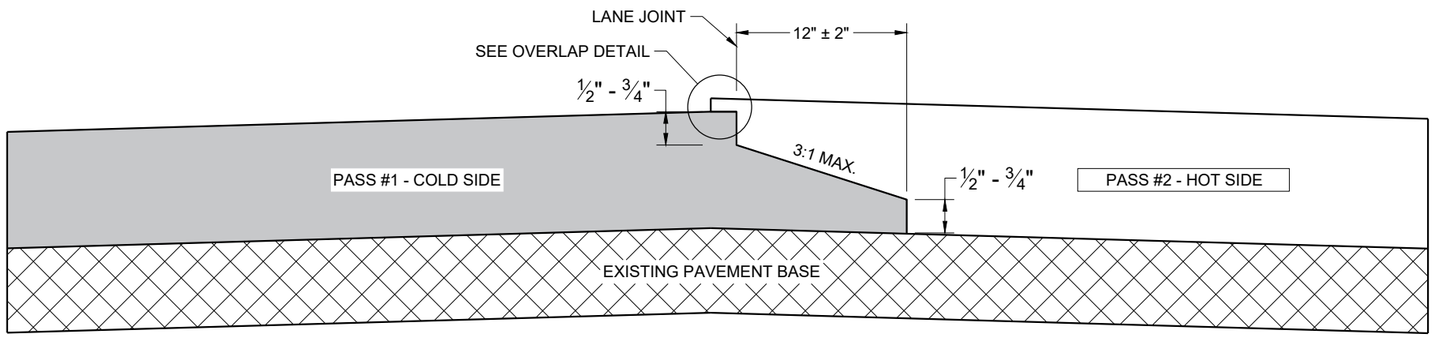
APPROVED
March 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVISO

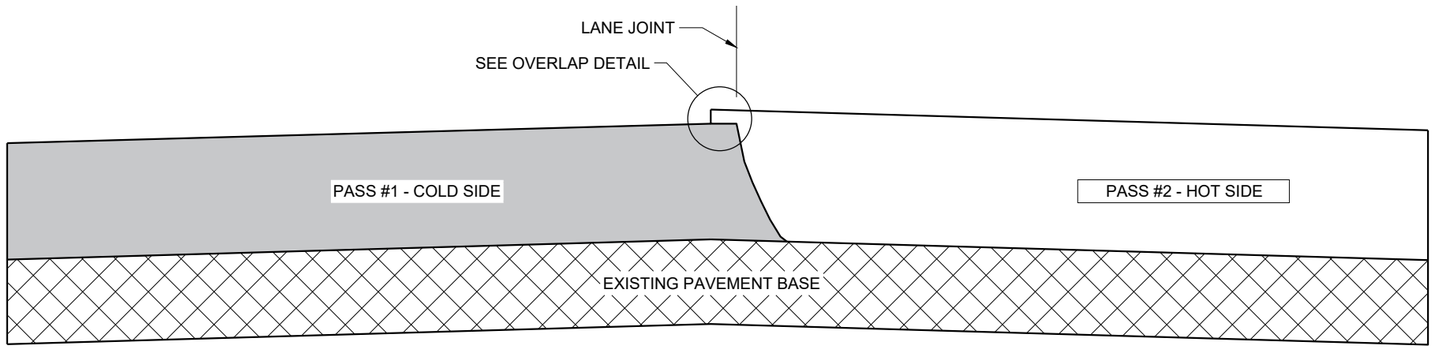
FHWA

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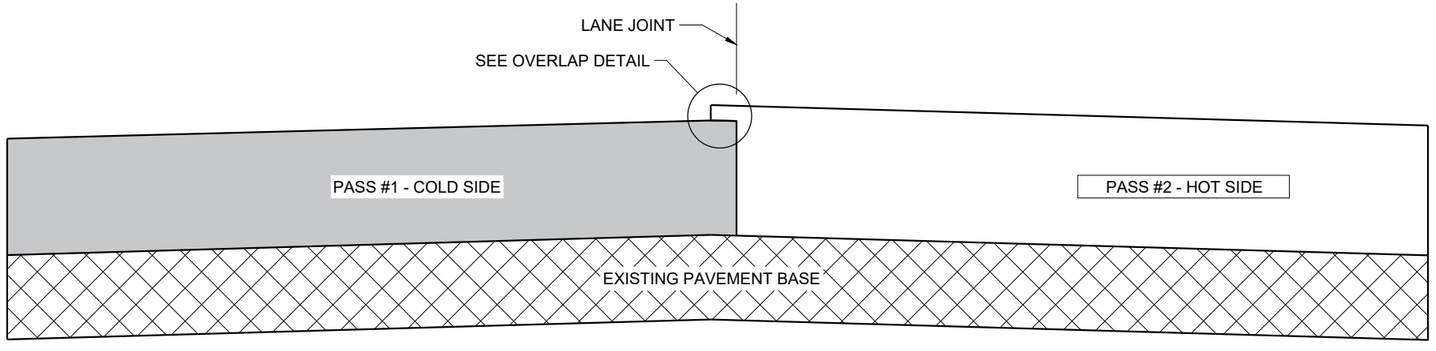
SDD 13C14 - 07c



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

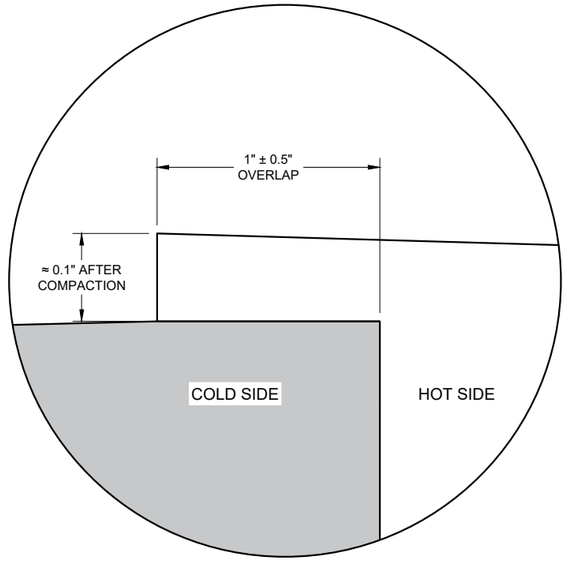
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

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SDD 13C19 - 03

SDD 13C19 - 03

HMA LONGITUDINAL JOINTS

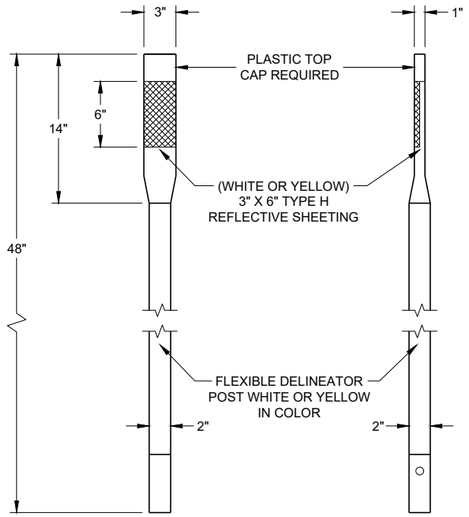
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

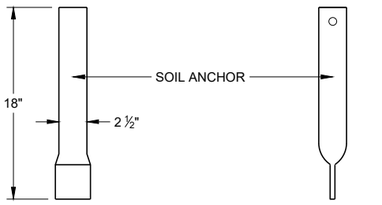
APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

606

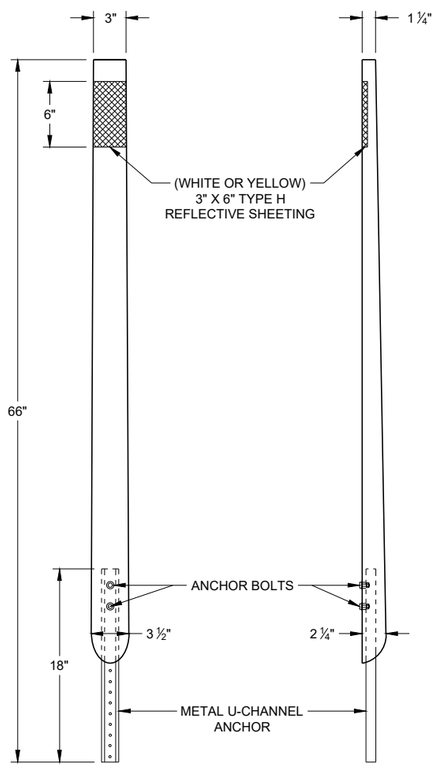
FHWA





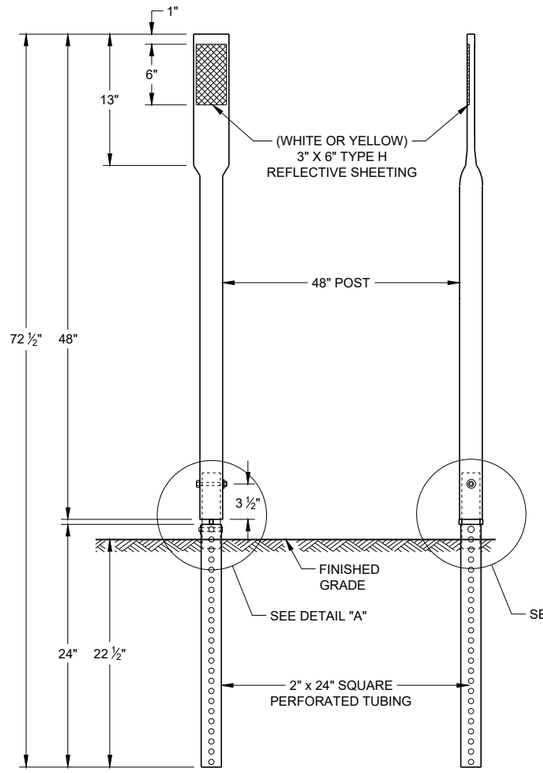
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



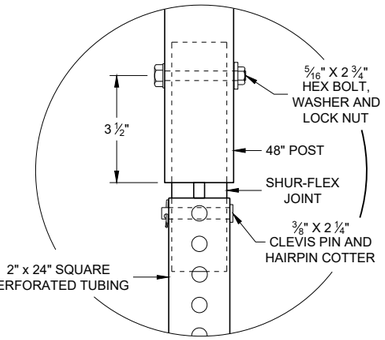
FRONT VIEW SIDE VIEW

ALTERNATE 3

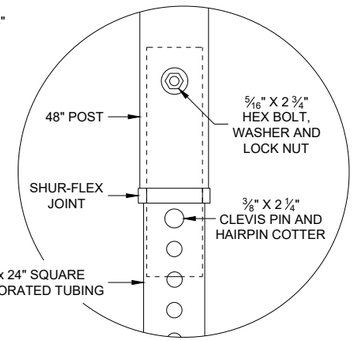
FLEXIBLE DELINEATOR POSTS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



DETAIL A

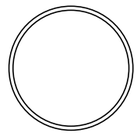


DETAIL B

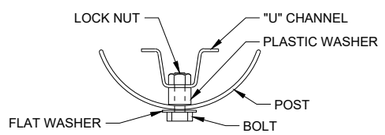
REFLECTOR SPACING TABLE

REFLECTOR SPACING	LOCATION
* 100' C-C	RAMPS
400' C-C	MAINLINE

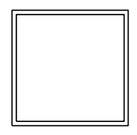
* START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER



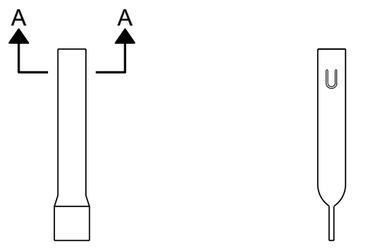
SECTION A - A



SECTION B - B

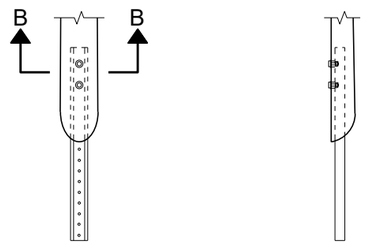


SECTION C - C



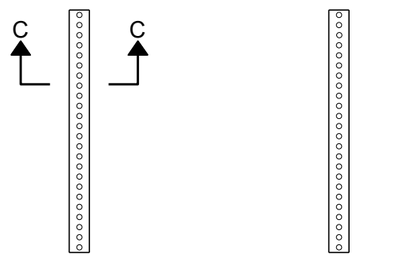
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE DELINEATOR POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

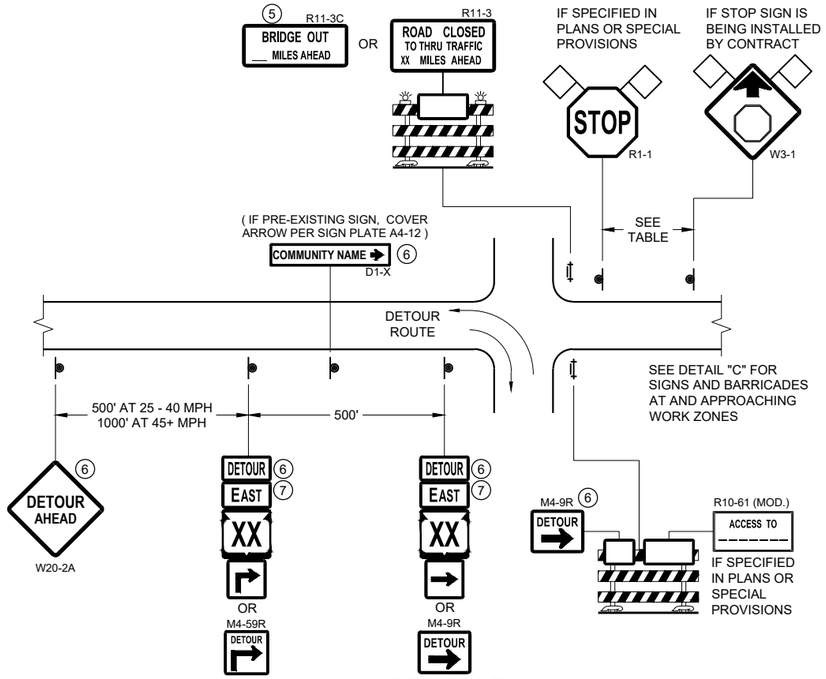
APPROVED
November 2021 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

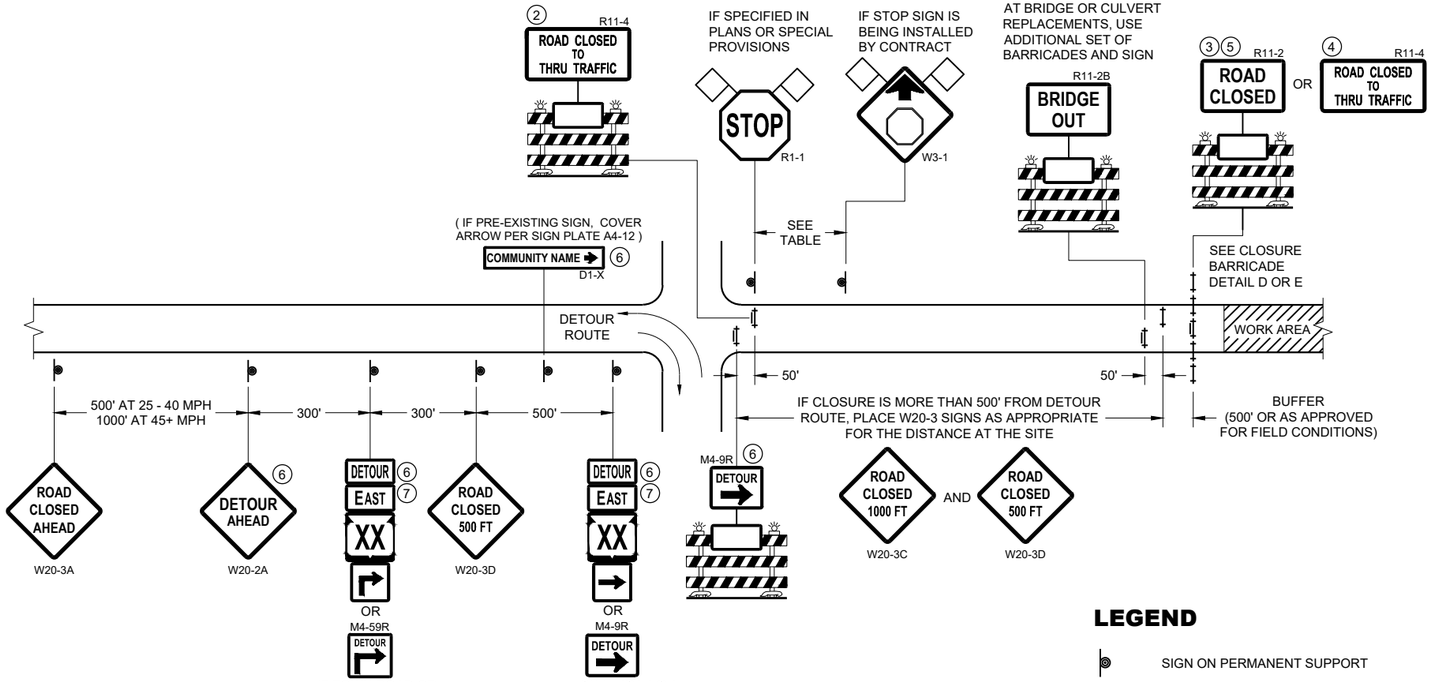
FHWA

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SDD 15A04 - 07a

SDD 15A04 - 07a





DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

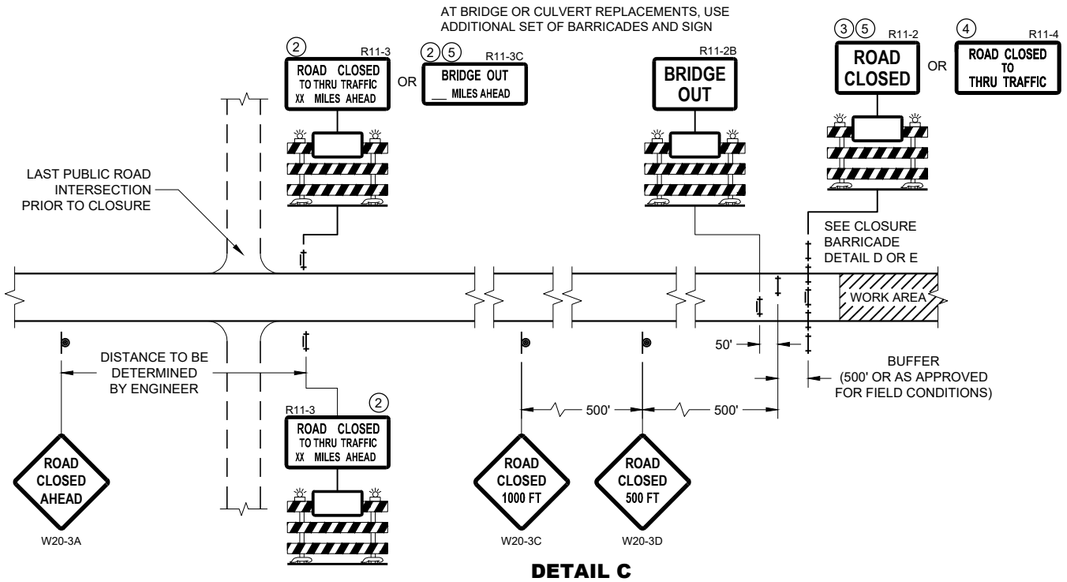
DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b" FOR GENERAL NOTES AND FOOTNOTES ① THROUGH ⑦

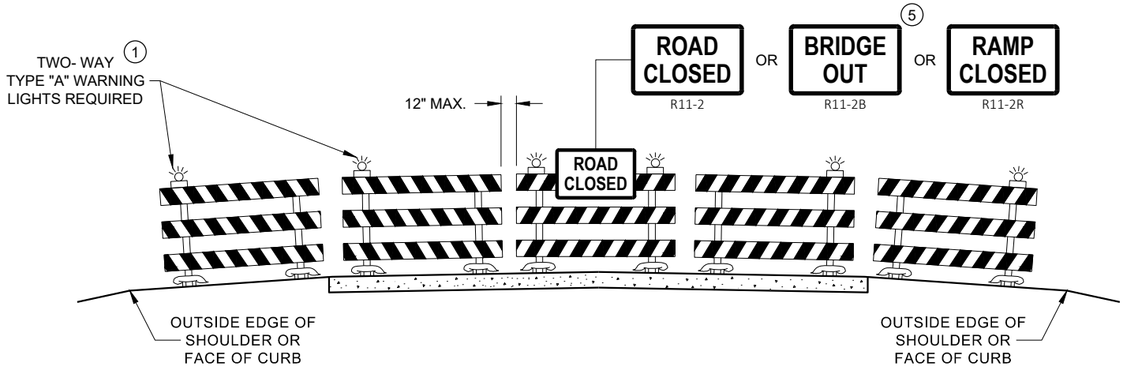
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

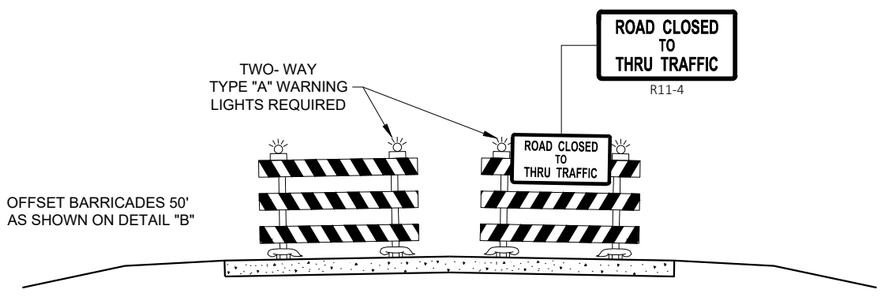
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER 608

FHWA

6
SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

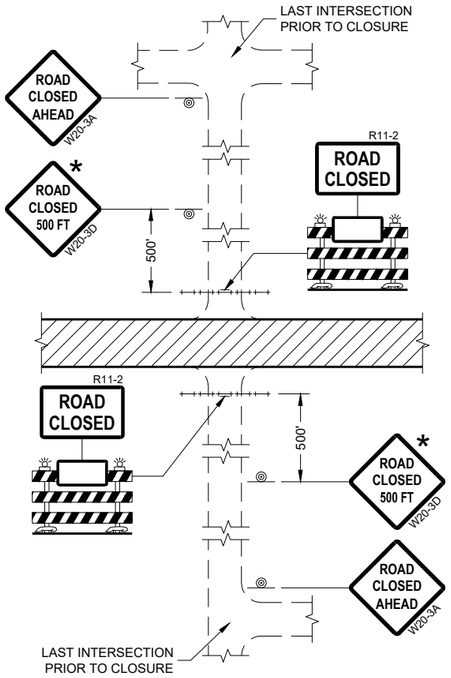
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

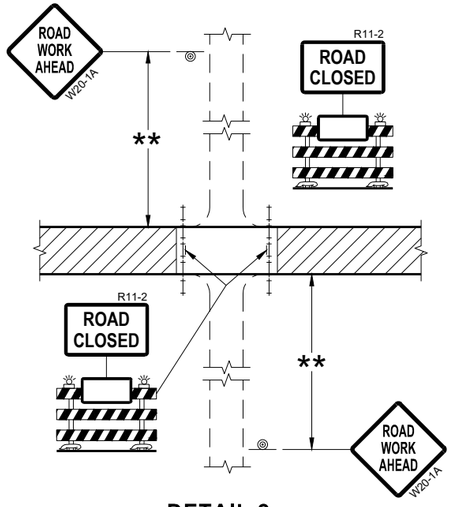
FHWA

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SDD 15C02 - 08b



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

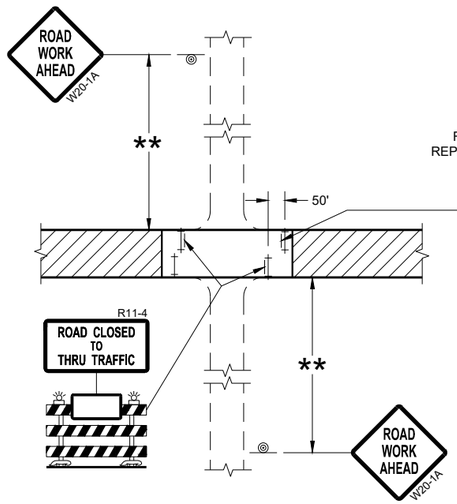
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

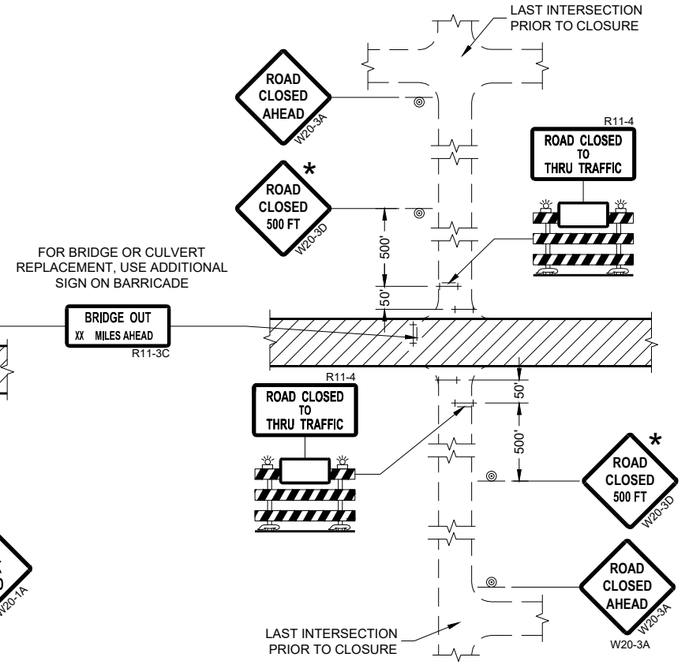
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE 610

FHWA

6

SDD 15C03 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

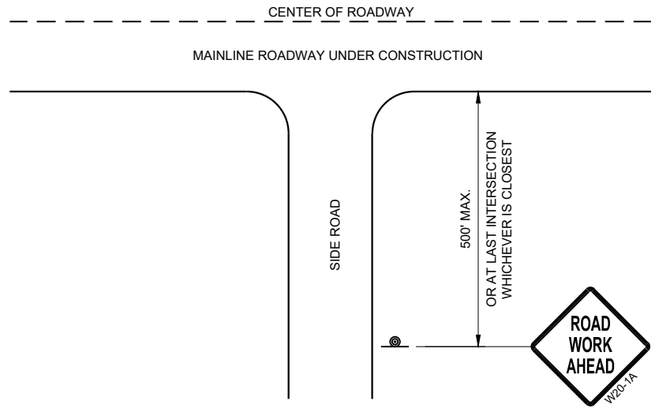
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



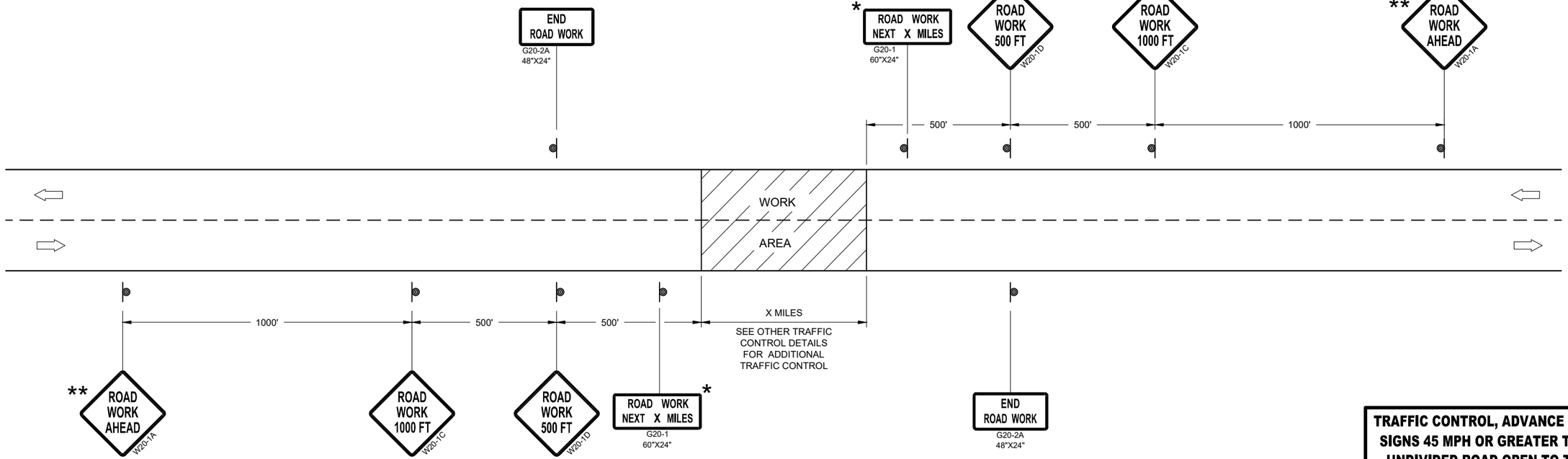
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C04 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

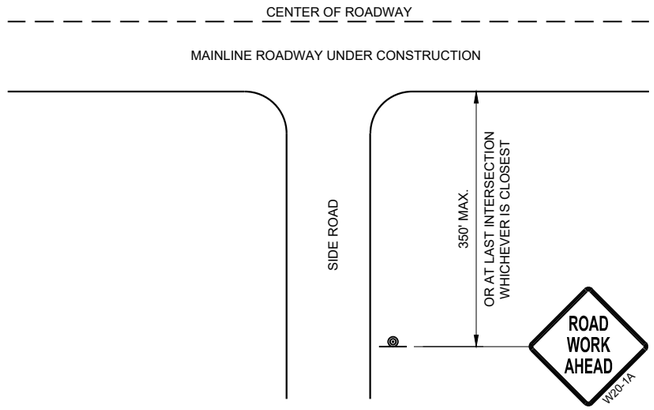
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



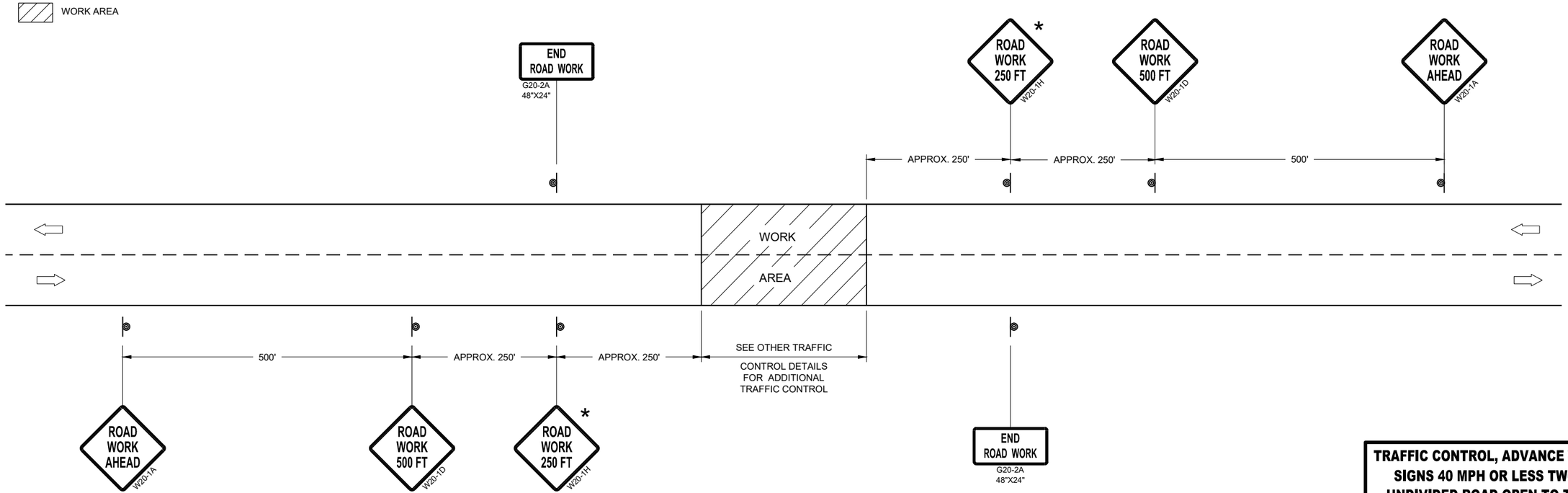
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

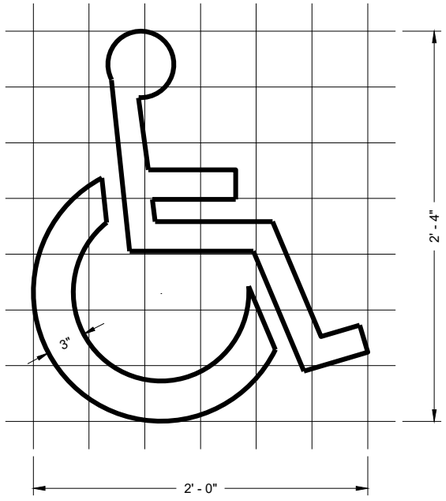
FHWA

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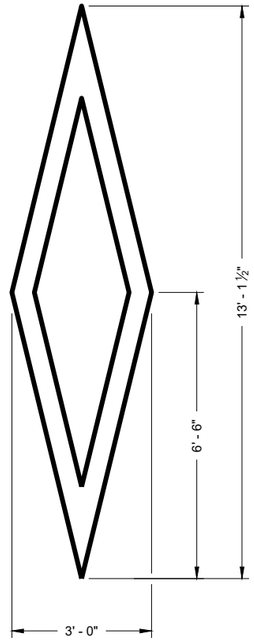
SDD 15C05 - 05

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

SDD 15C07 - 15a

SDD 15C07 - 15a

PAVEMENT MARKING SYMBOLS

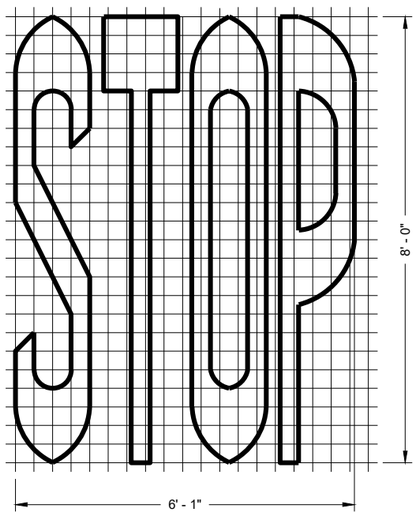
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

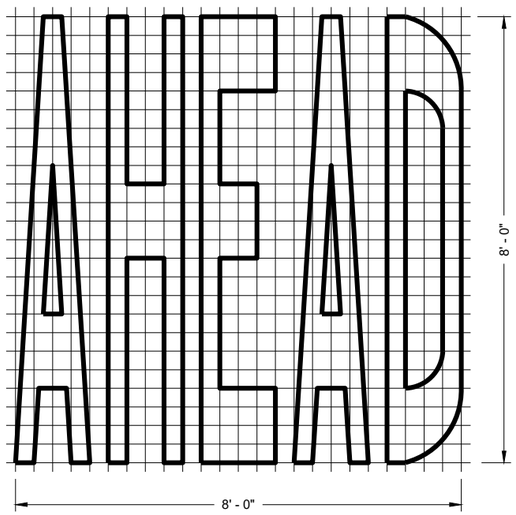
APPROVED

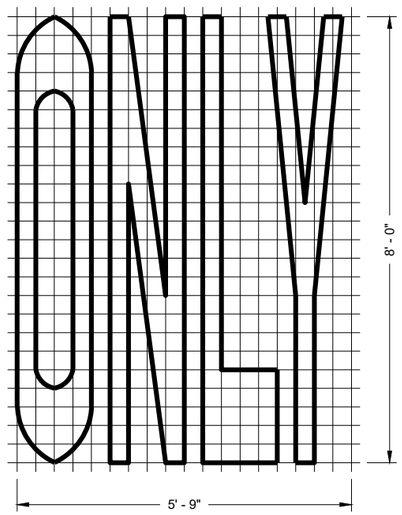
November 2019
DATE

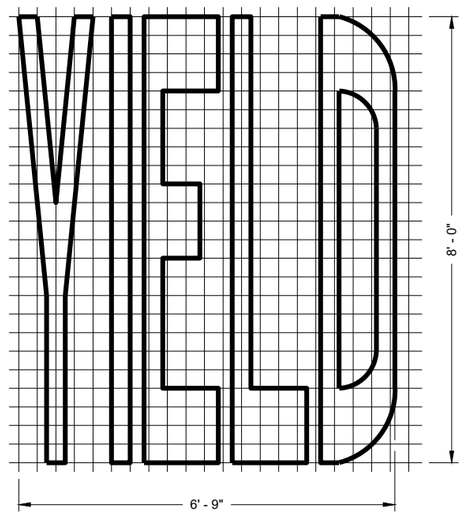
/S/ Matthew Rauch
STATE SIGNING AND MAR ENGINEER

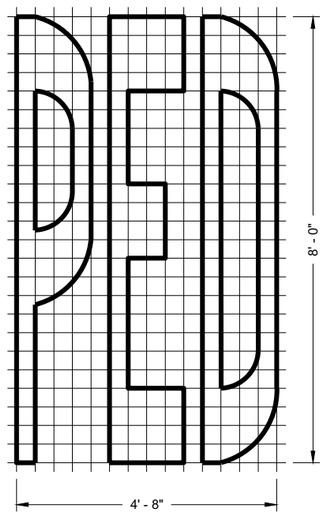
FHWA



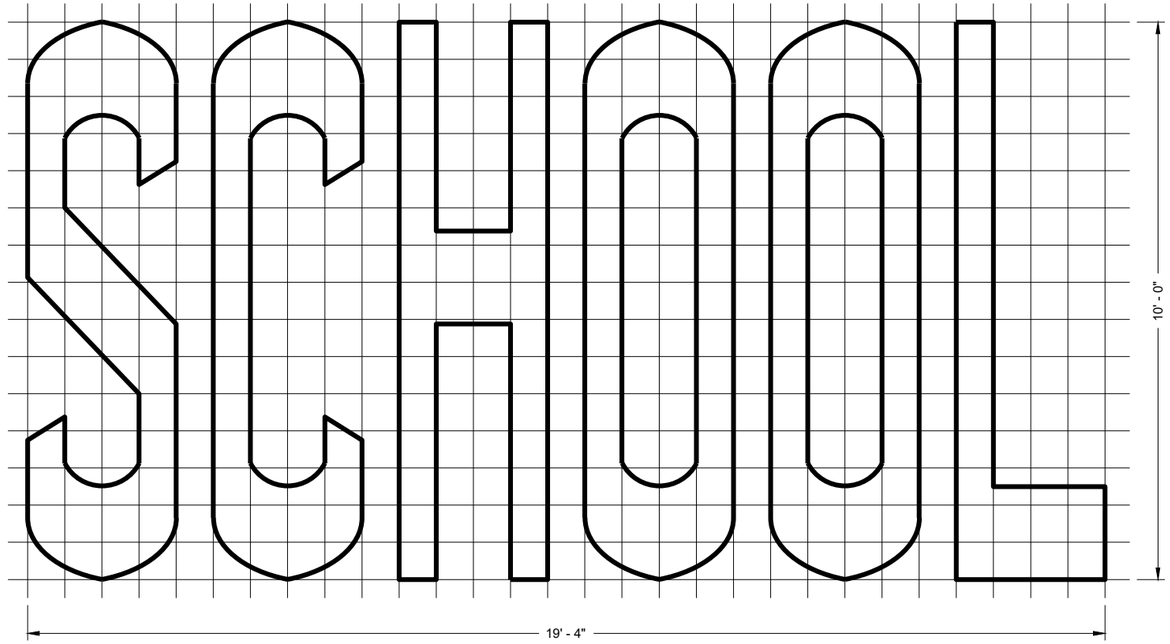








SINGLE LANE



TWO - LANE

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

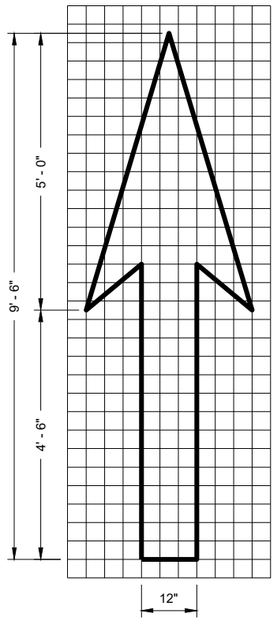
FHWA

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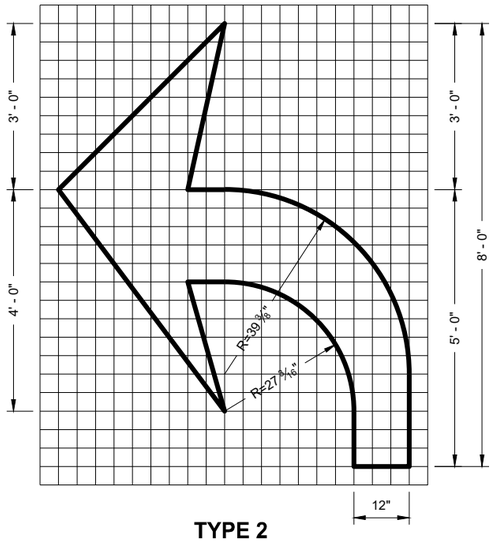
SDD 15C07 - 15b

6

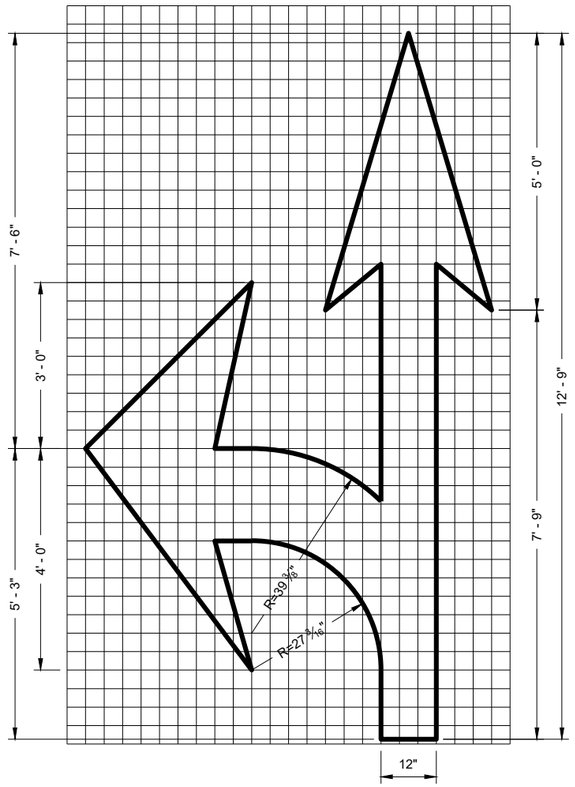
SDD 15C07 - 15b



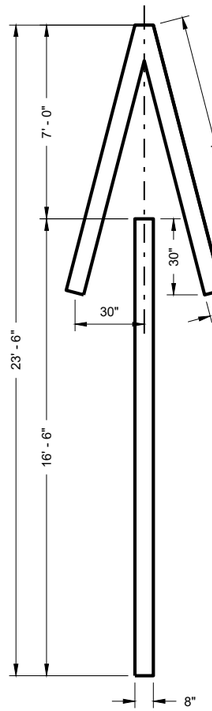
TYPE 1



TYPE 2



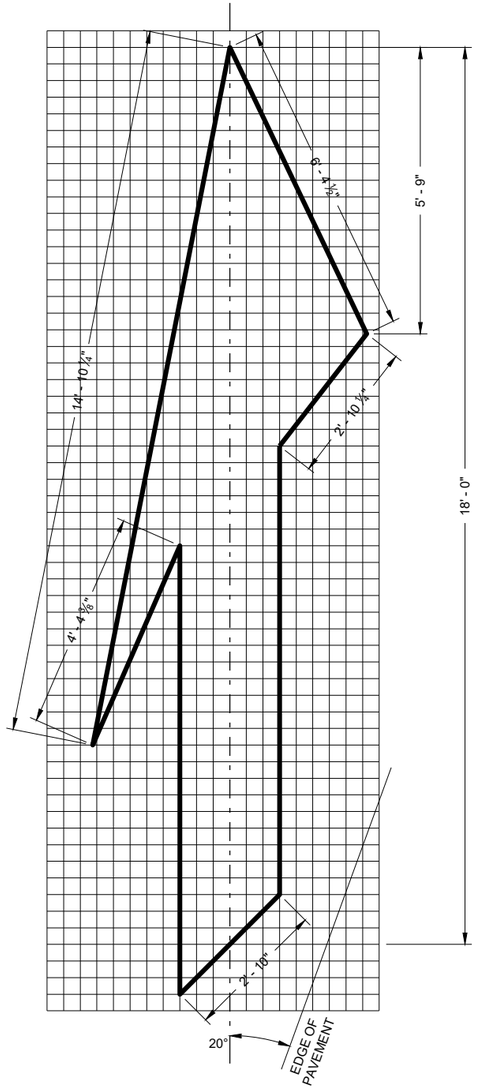
TYPE 3



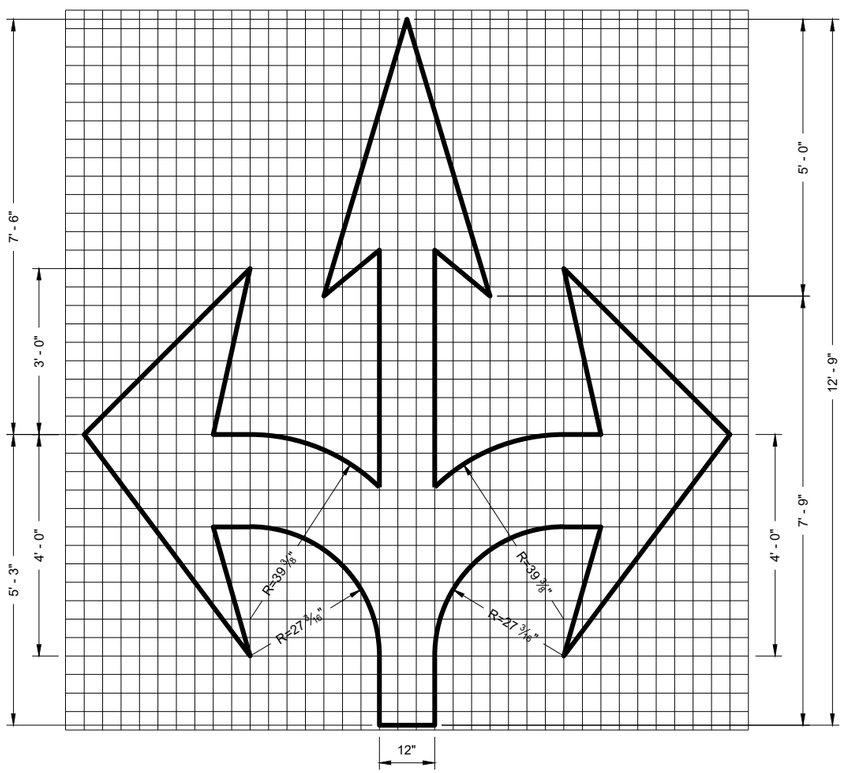
TYPE 4

GENERAL NOTES

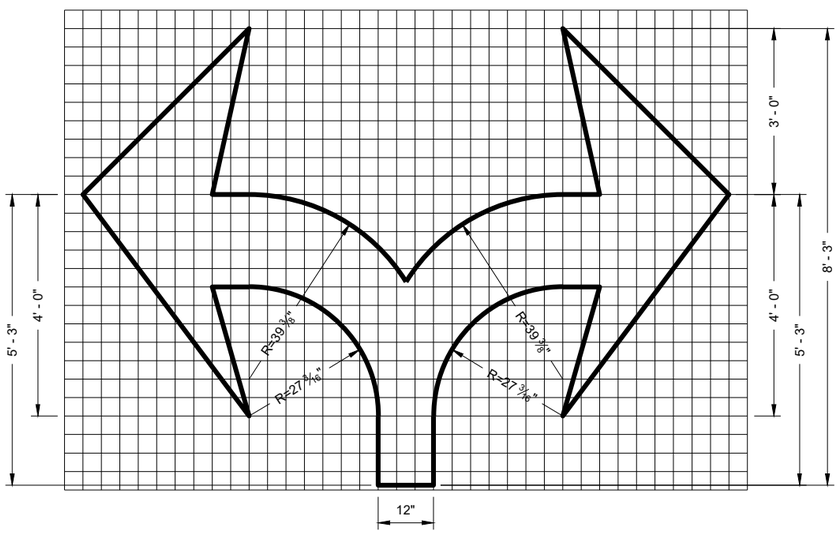
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

615

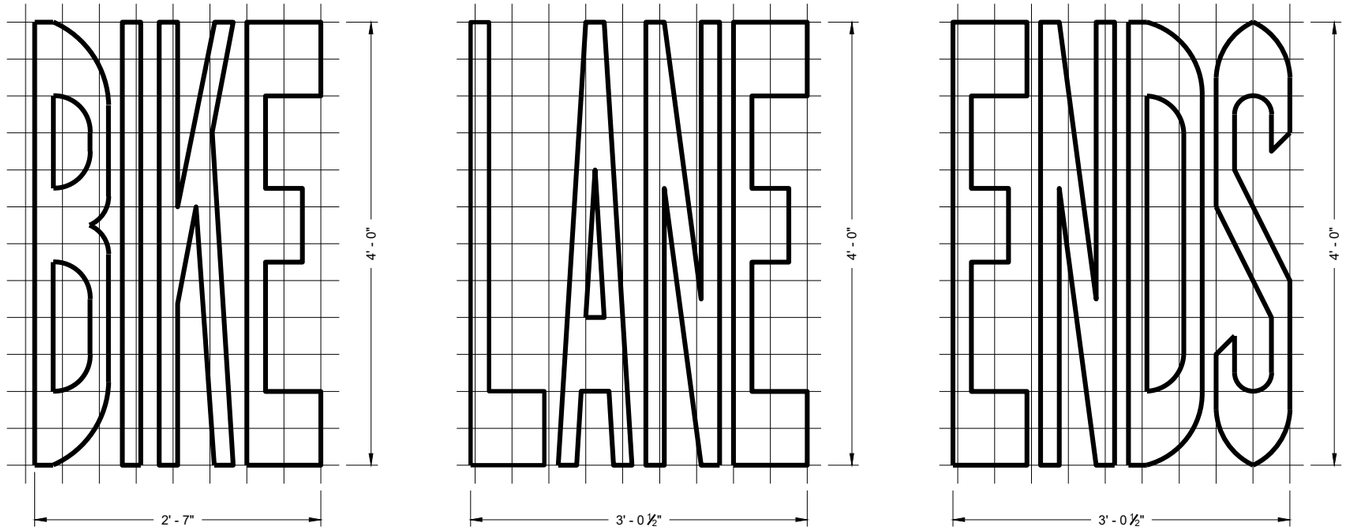
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SDD 15C07 - 15c

6

SDD 15C07 - 15c

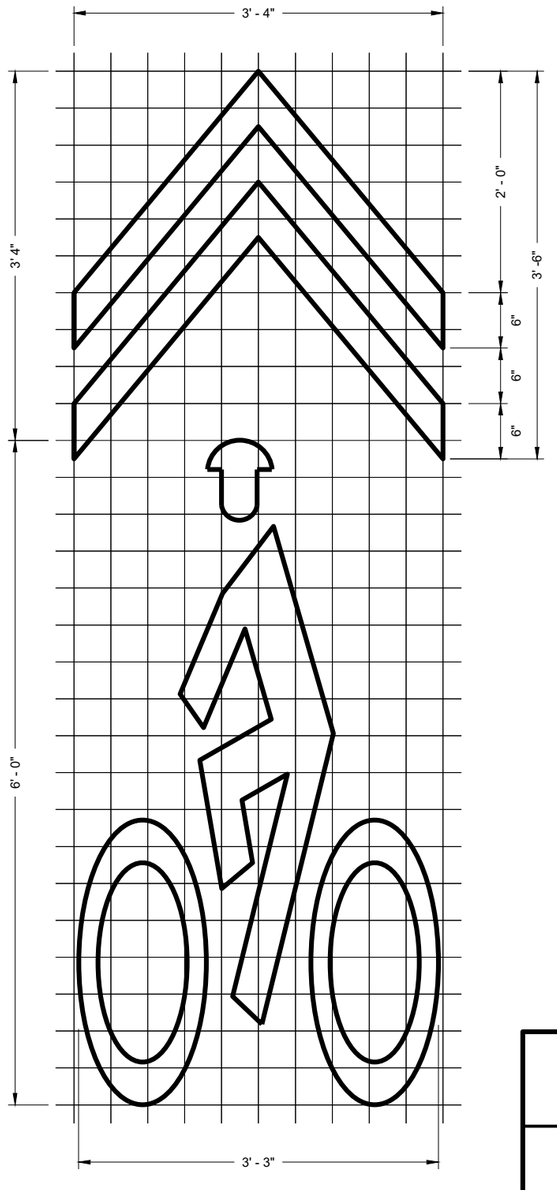
SDD 15C7-e Pavement Marking For Bike Lanes

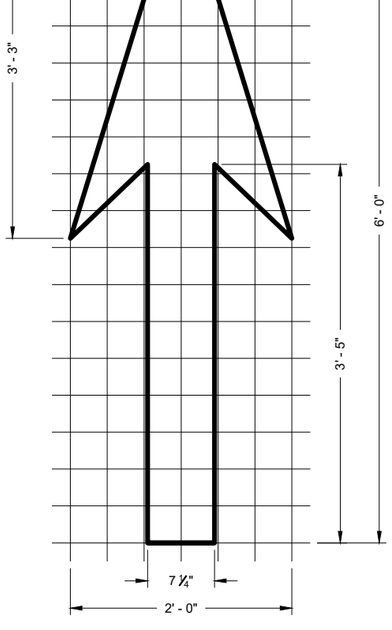


BIKE LANE WORDS

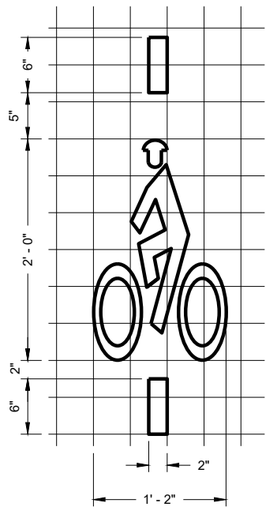
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

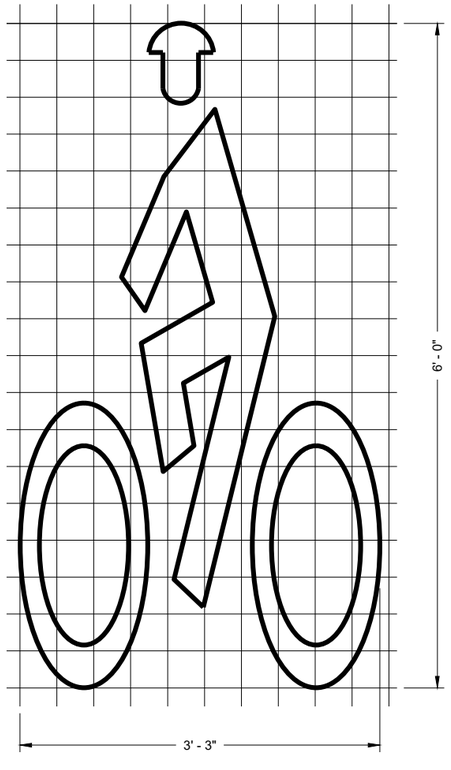




BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

BIKE LANE SYMBOL FOR SHARED LANE

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C07 - 15e

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

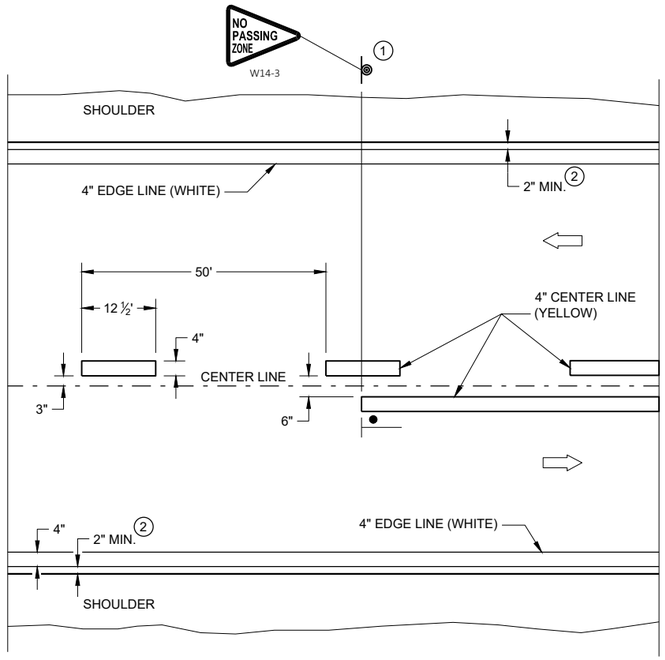
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

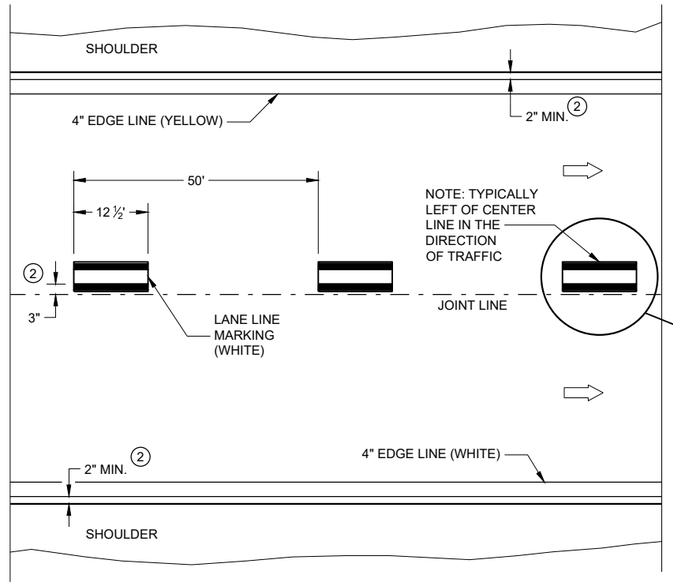
"T" MARKING

SIGN ON PERMANENT SUPPORT

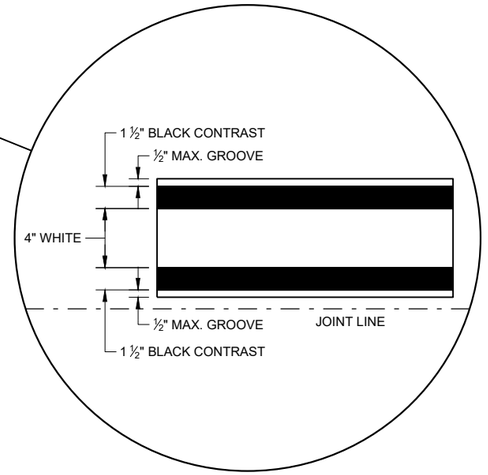
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Jeannie Silver
STATEWIDE SIGNING AND M
ENGINEER

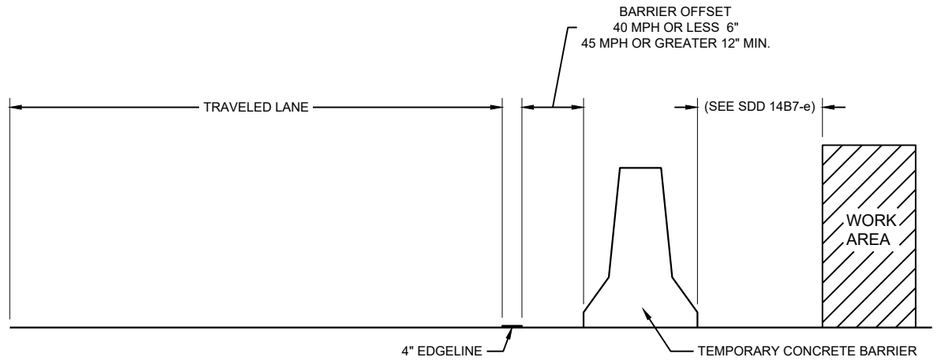
FHWA

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SDD 15C08 - 22a

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SDD 15C08 - 22a



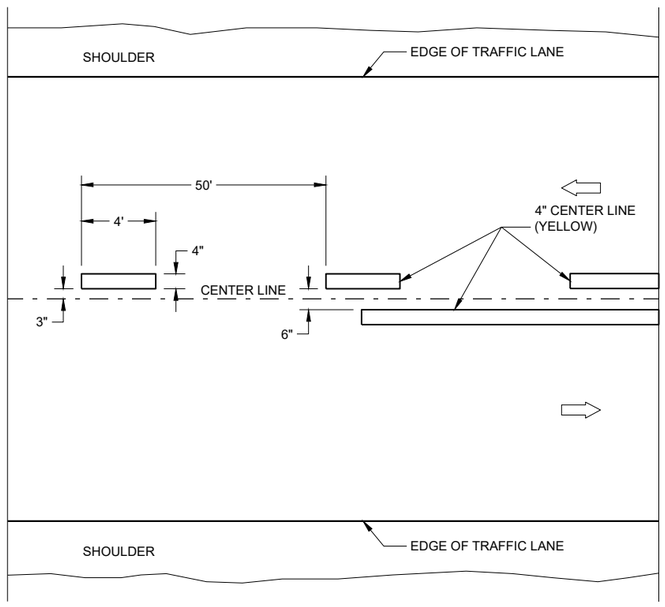
TEMPORARY BARRIER OFFSET FROM EDGELINE

GENERAL NOTES

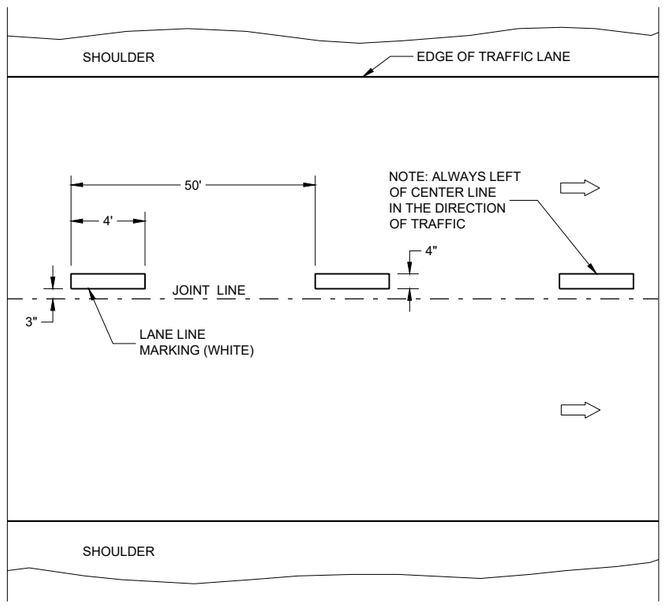
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

LEGEND

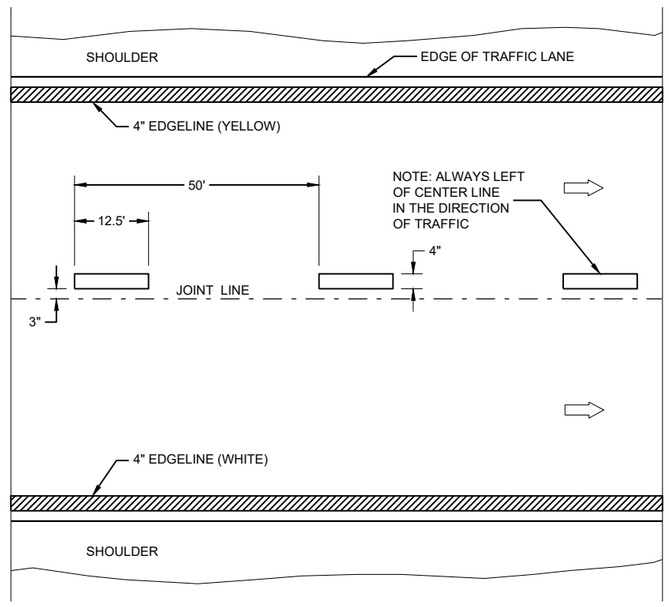
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022
DATE

/S/ Jeannie Silver
STATEWIDE SIGNING AND M ENGINEER

FHWA

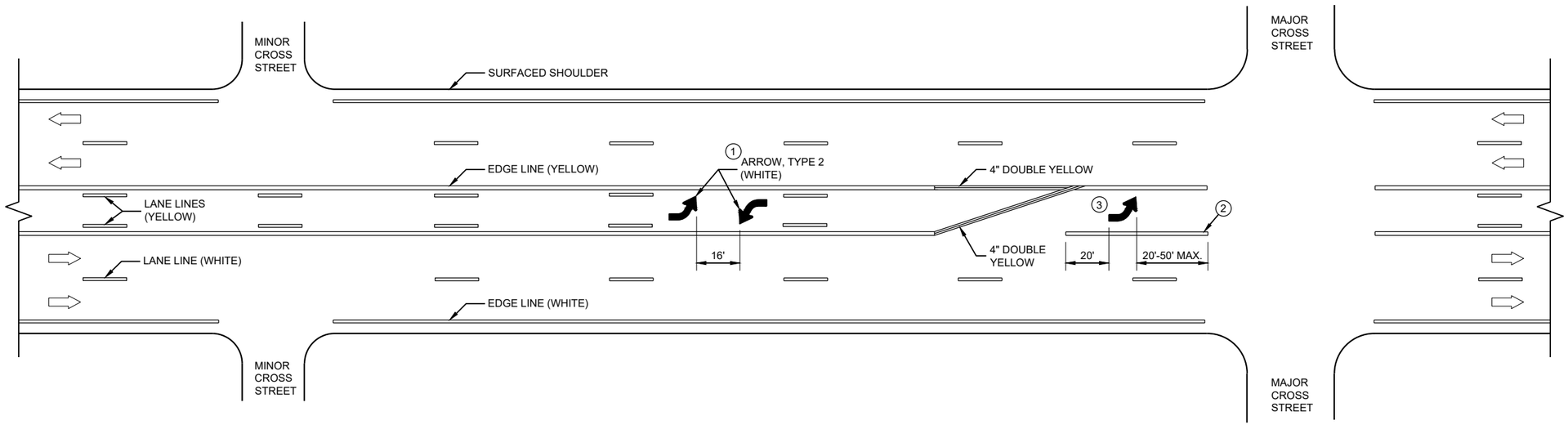
6

SDD 15C08 - 22b

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

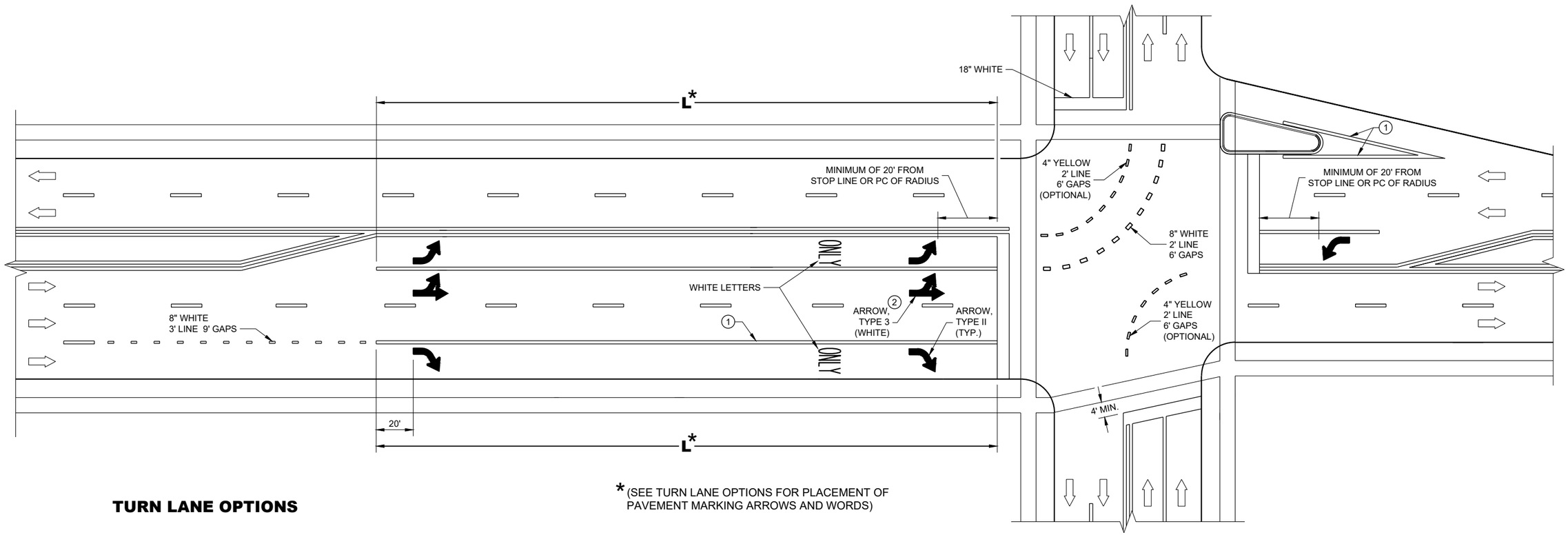
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SDD 15C08 - 22c

SDD 15C08 - 22c

PAVEMENT MARKING (TURN LANES)

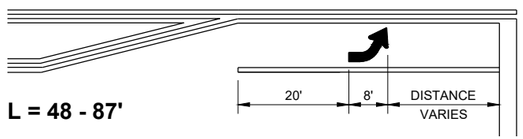
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



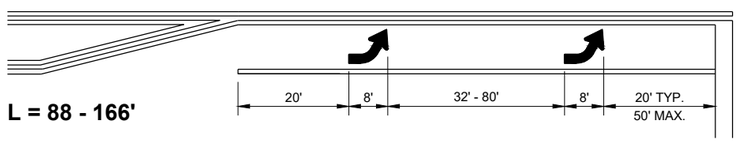
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

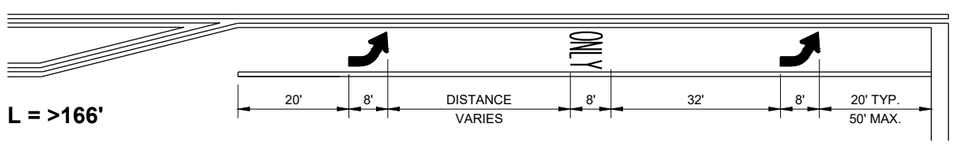
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

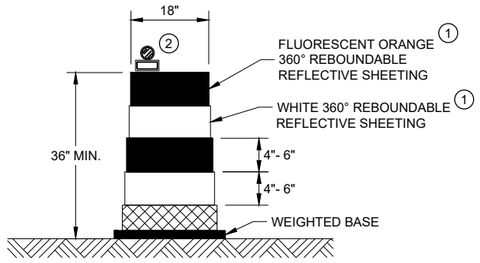
STATE OF WISCONSIN
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SDD 15C08 - 22d

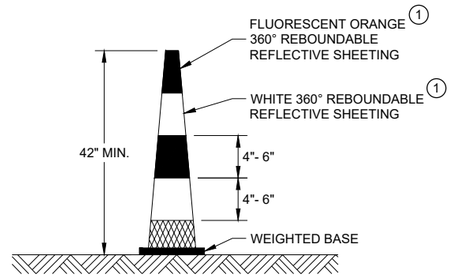
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

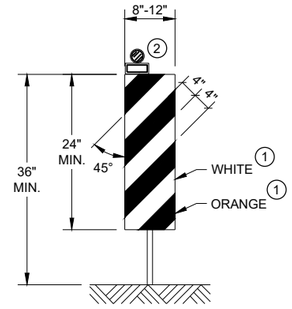
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

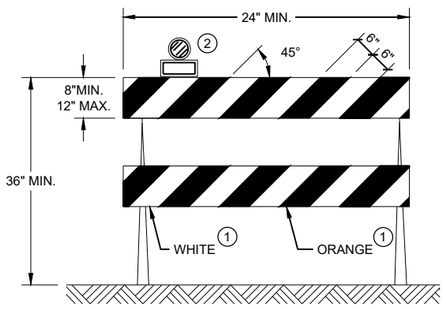
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



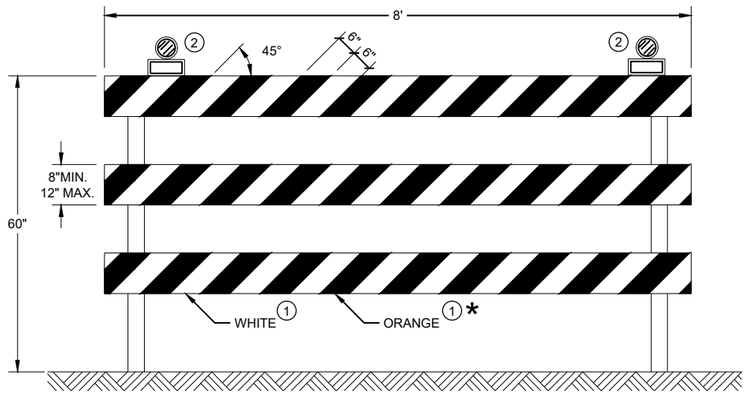
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

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SDD 15C11 - 10b
SDD 15C11 - 10b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

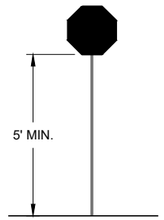
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF

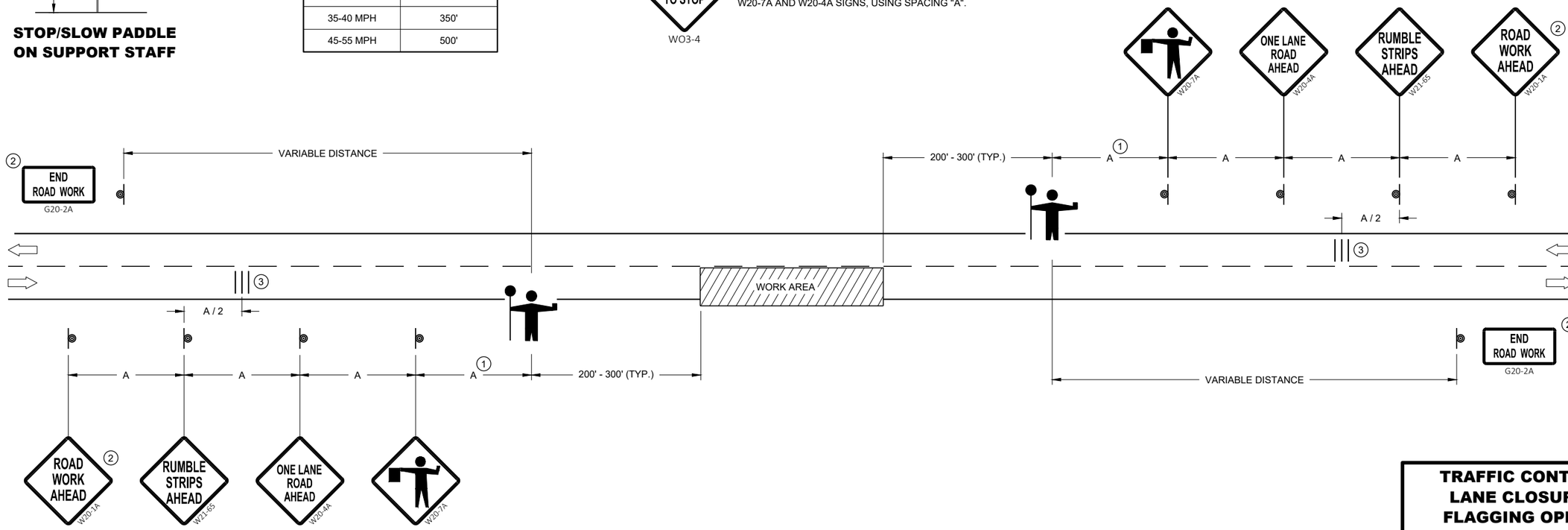
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
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May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

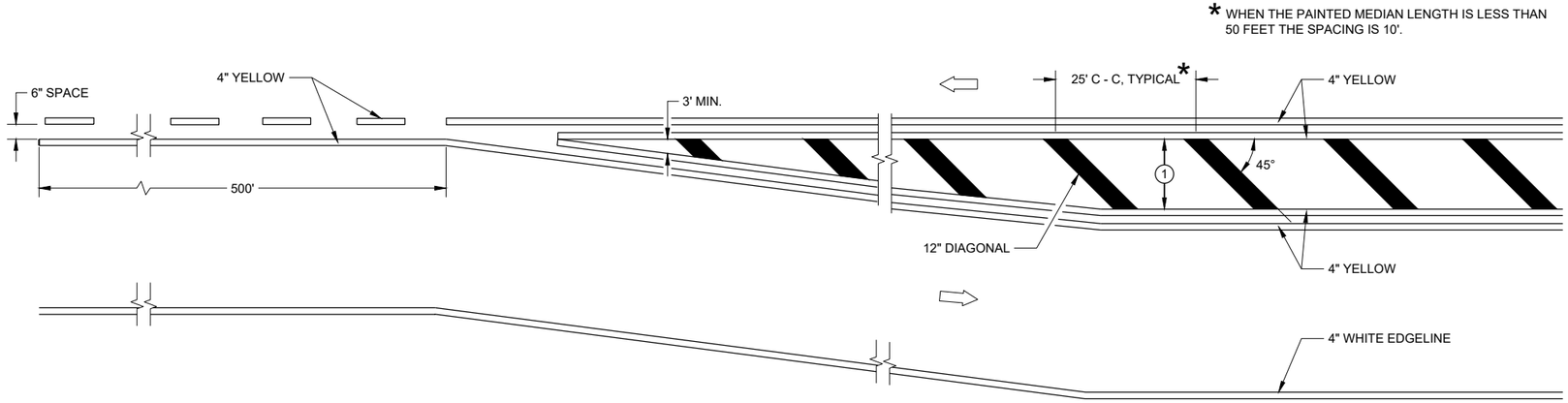
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SDD 15C12 - 09a

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SDD 15C12 - 09a

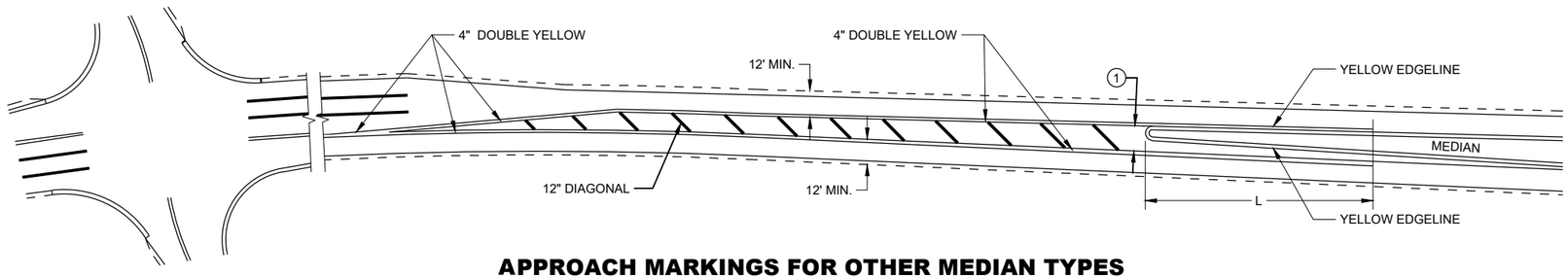


MEDIAN ISLAND DETAIL

GENERAL NOTES

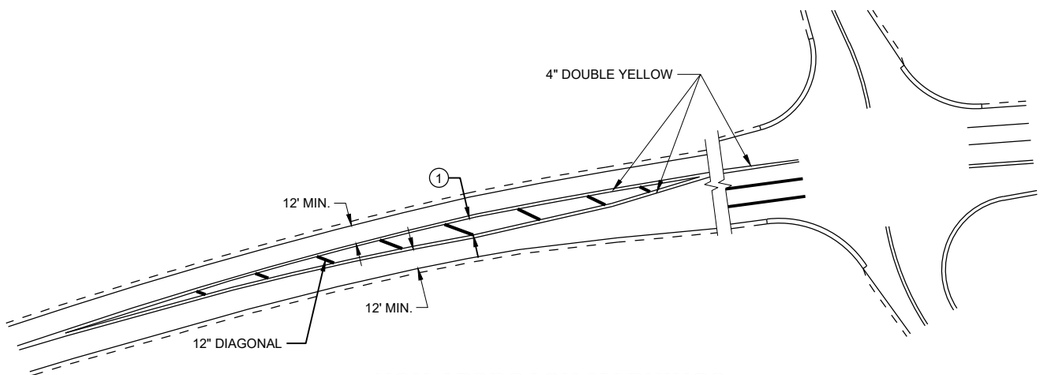
1. DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES

SPEED LIMIT	L
<35 MPH	5'
35> MPH	50'



NON-APPROACH MARKINGS

6

SDD 15C18 - 07a

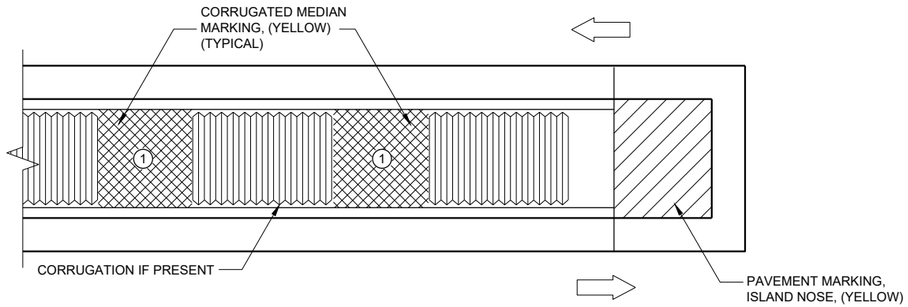
MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

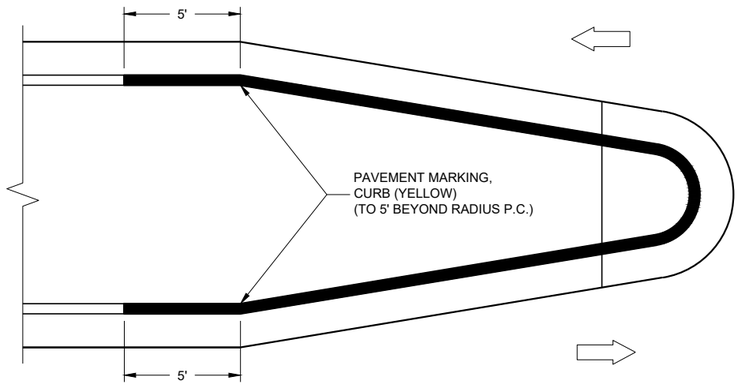
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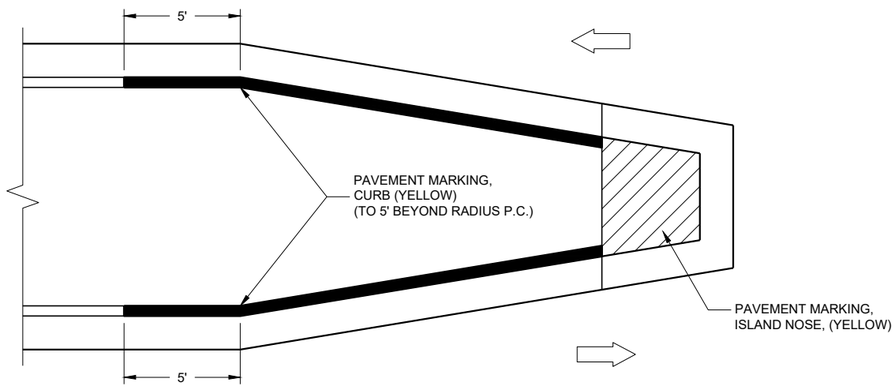
SDD 15C18 - 07a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

STATE OF WISCONSIN
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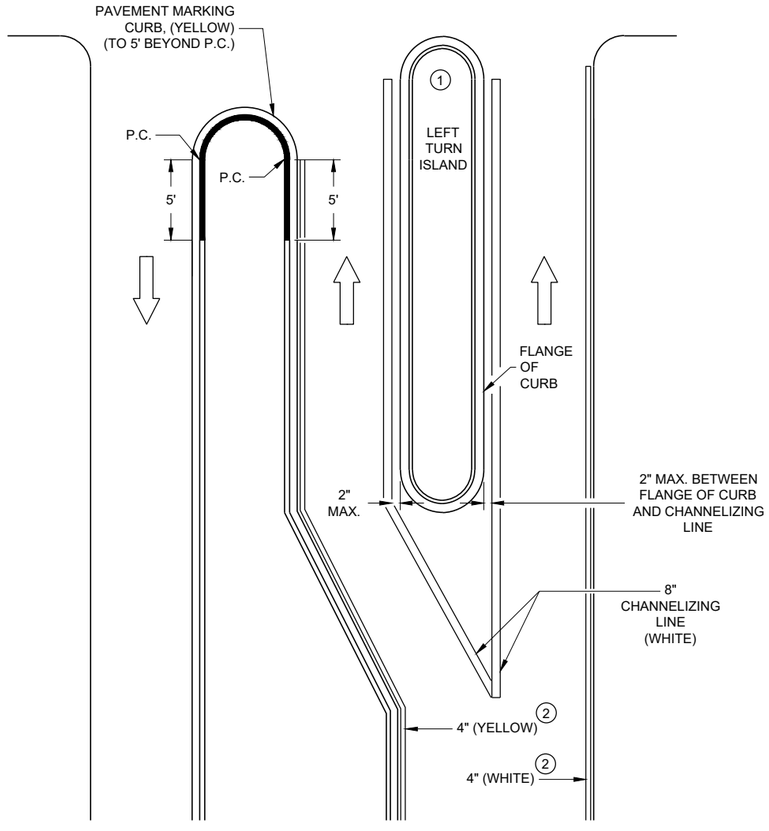
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SDD 15C18 - 07b

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SDD 15C18 - 07b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

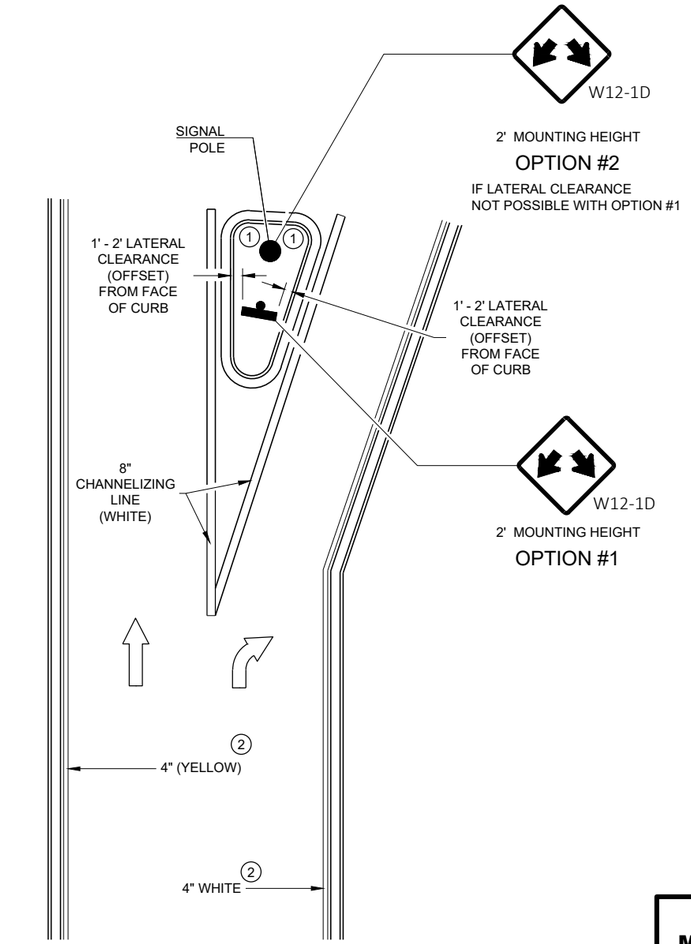
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

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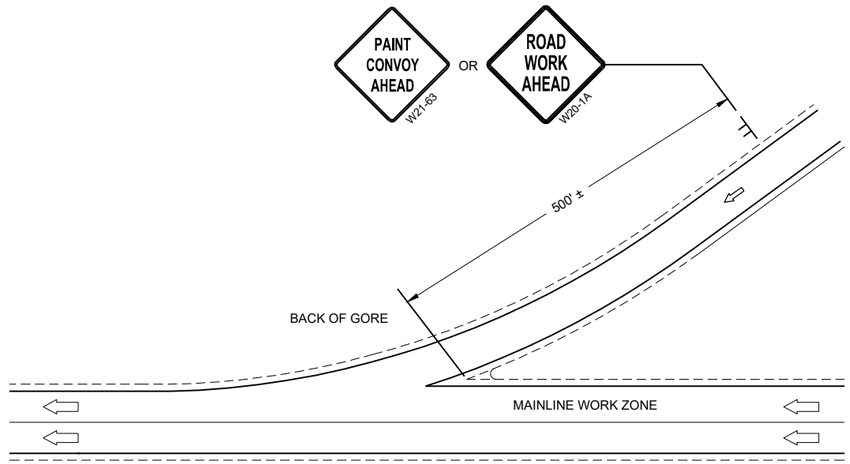
SDD 15C18 - 07c

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SDD15C18 - 07c

LEGEND

- V1 MARKING VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE
- TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW PANEL (MERGE)
- FLASHING ARROW PANEL (CAUTION)



GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

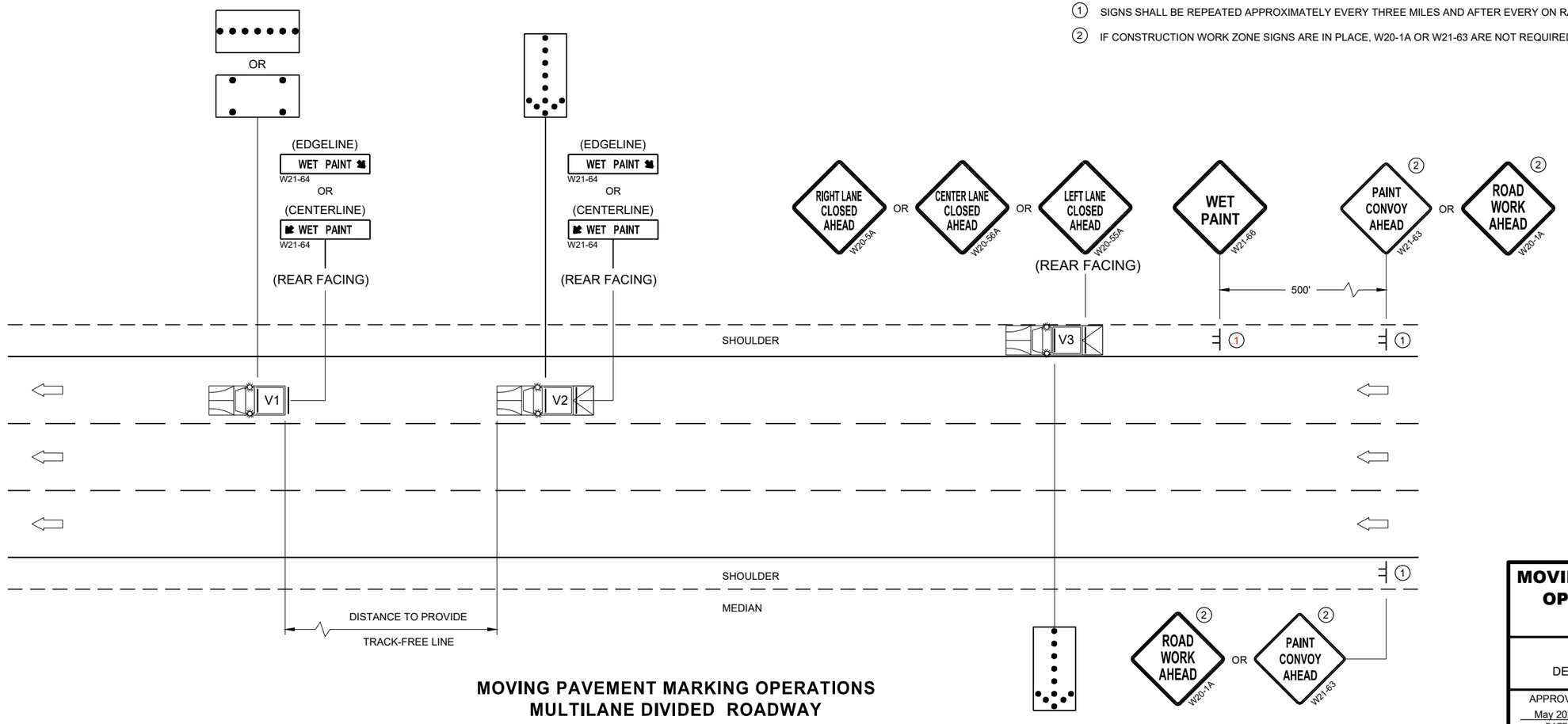
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

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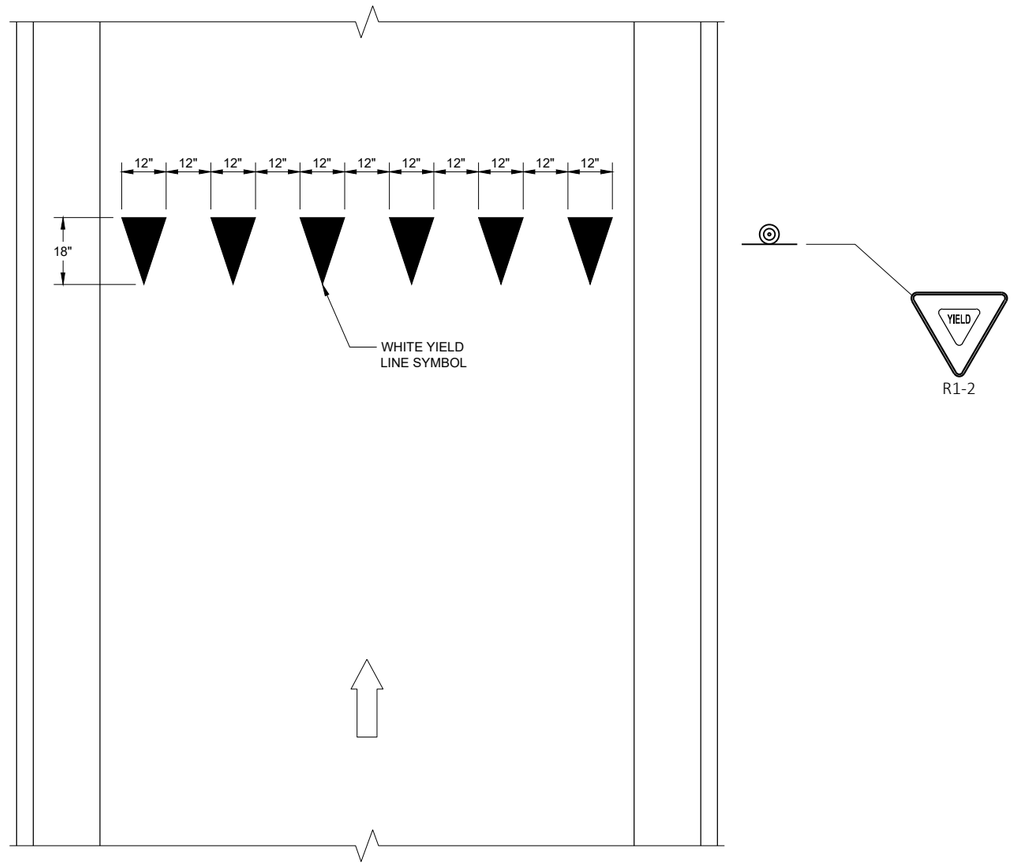
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SDD 15C19 - 07c

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL



R1-2

YIELD LINE

YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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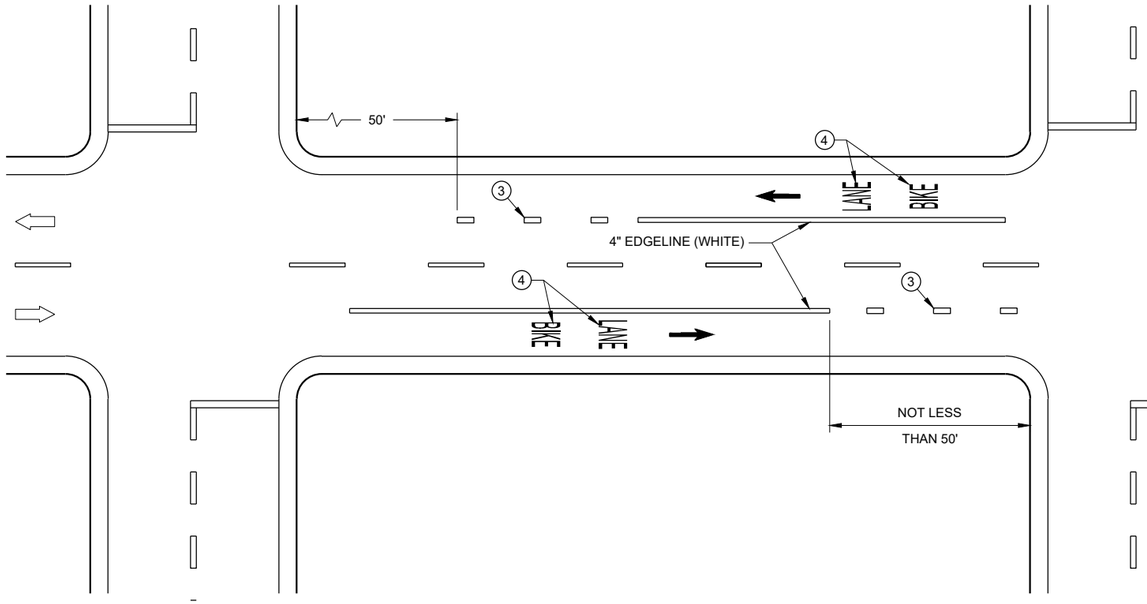
4-81-2016
DATE

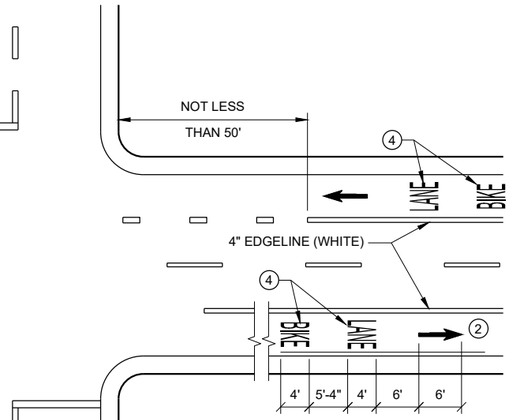
/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

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SDD 15C20 - 02



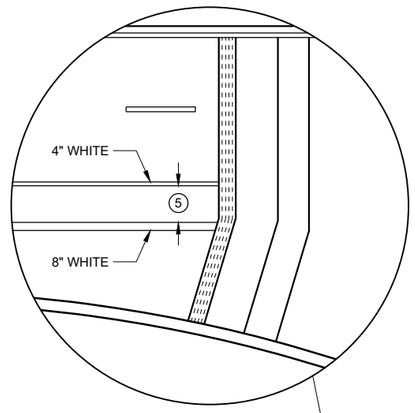


GENERAL NOTES

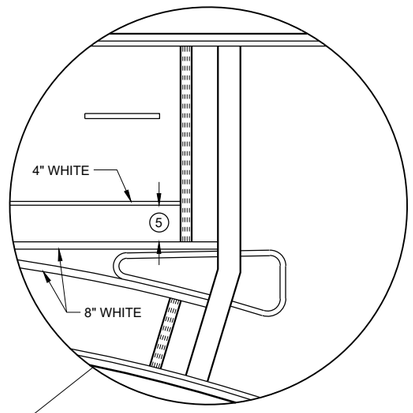
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. BIKE SYMBOLS OR WORDS MAY BE USED.
5. BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

DIRECTION OF TRAVEL

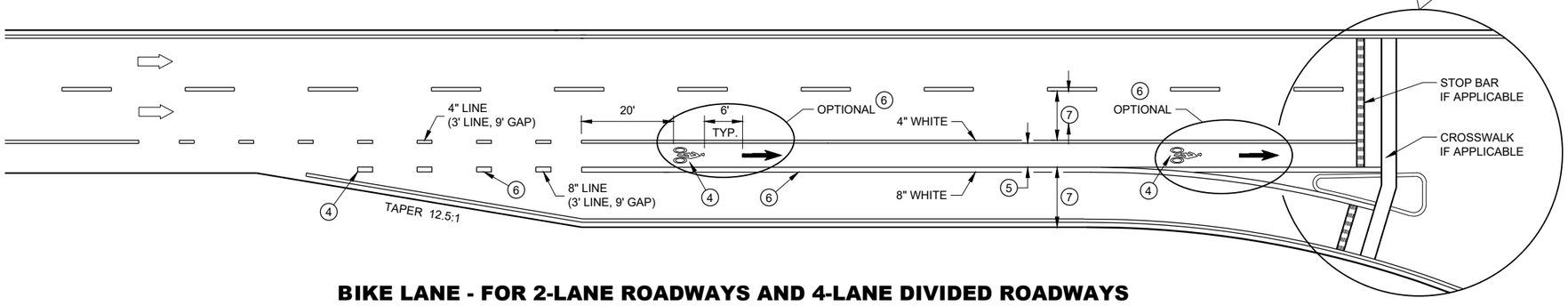
DESIGNATED BIKE LANE - NO PARKING



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BIKE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 15C29 - 07a

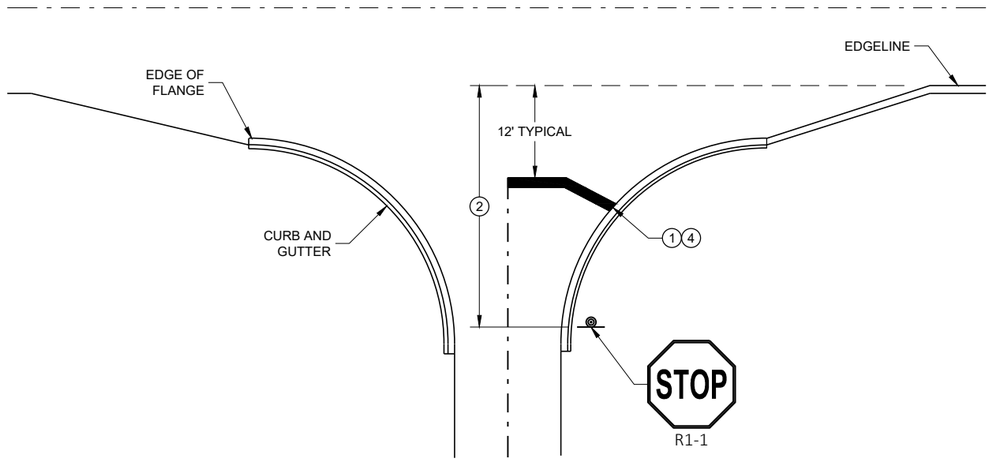
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SDD 15C29 - 07a

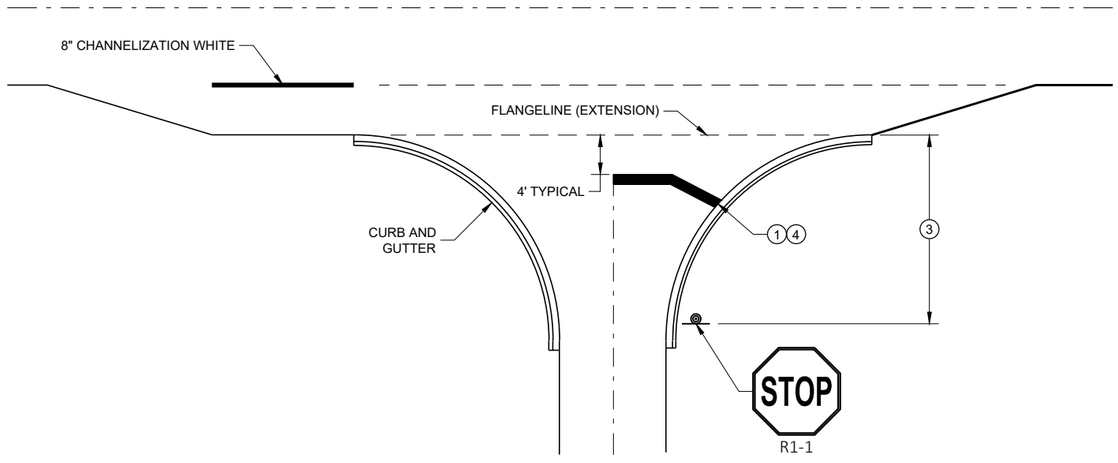
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

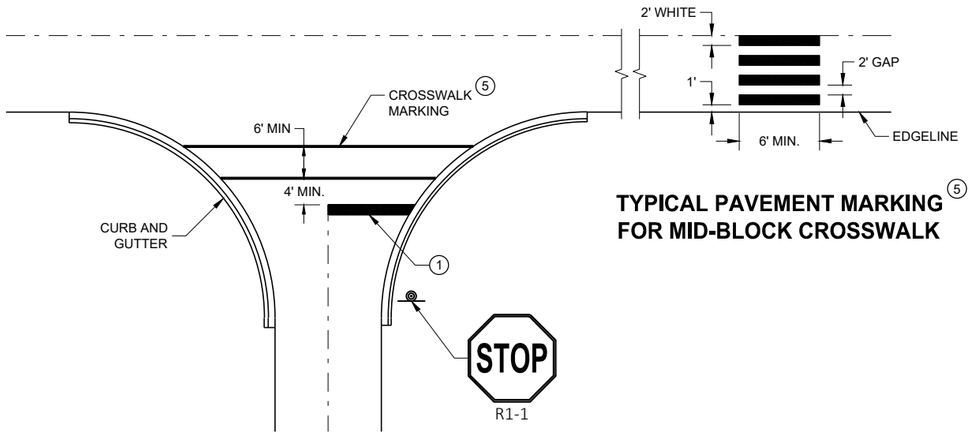
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

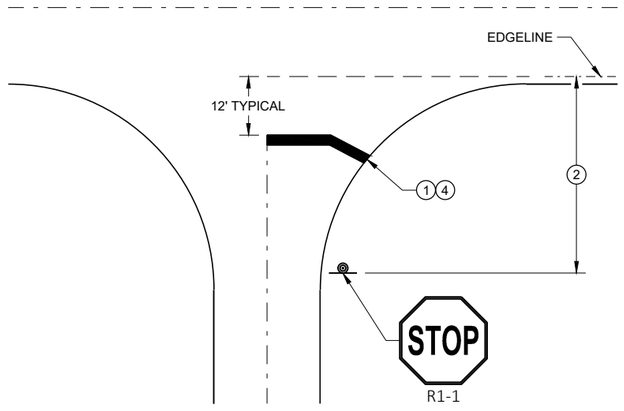


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

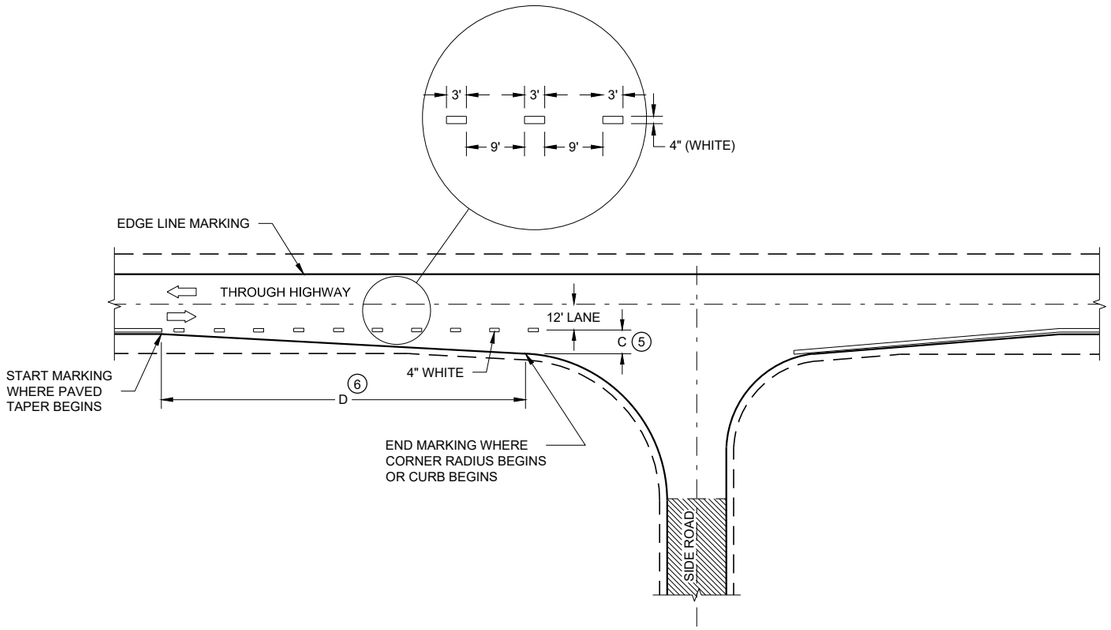
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

6

SDD 15C33 - 04
SDD 15C33 - 04



MINOR INTERSECTION

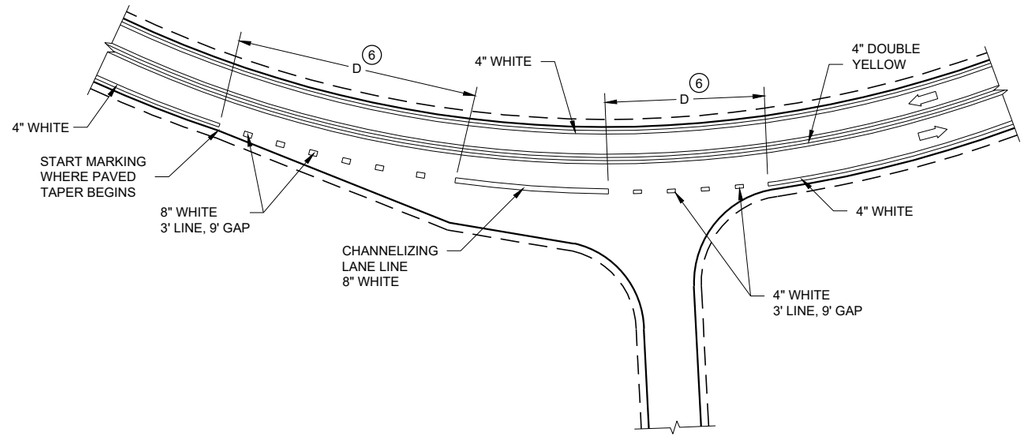
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

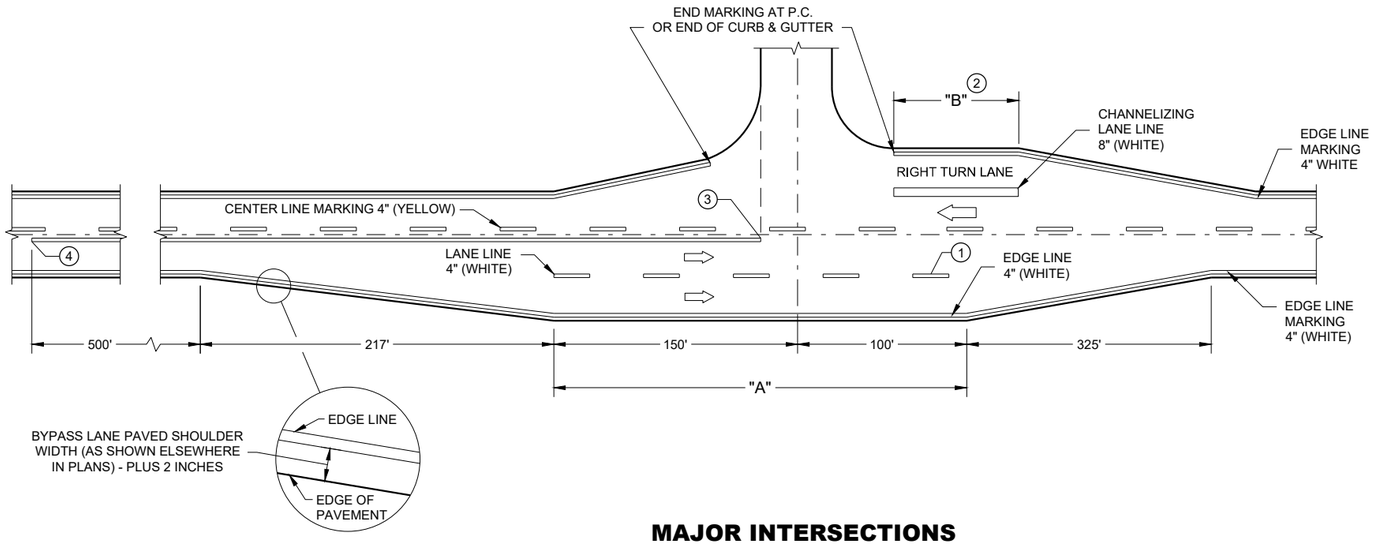
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 05a
SDD 15C35 - 05a

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

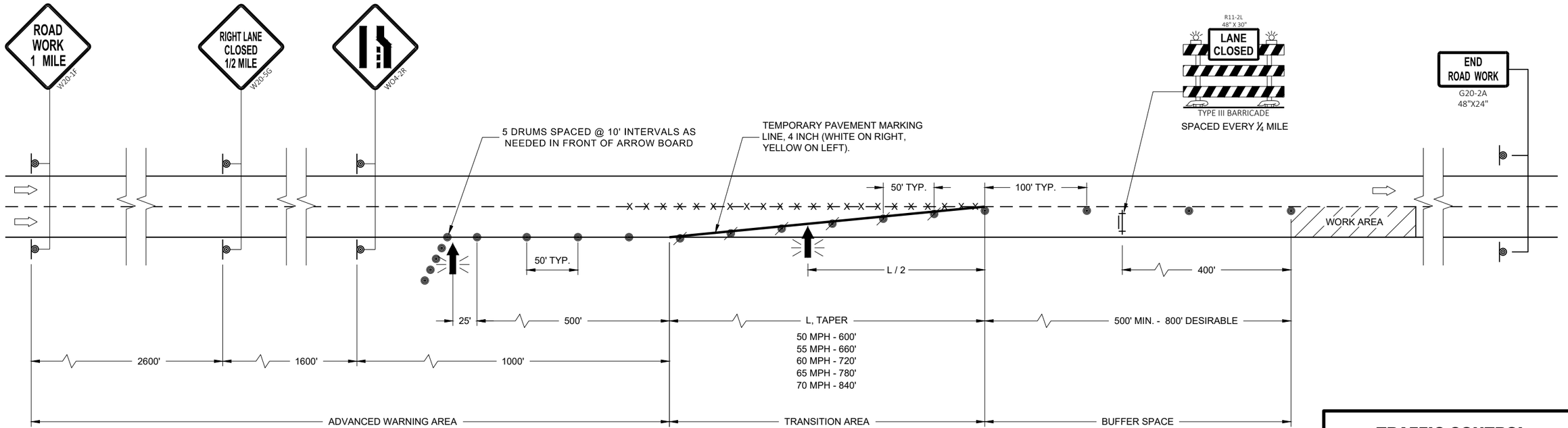
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

631

6

SDD 15D12 - 10a

6

SDD 15D12 - 10a

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

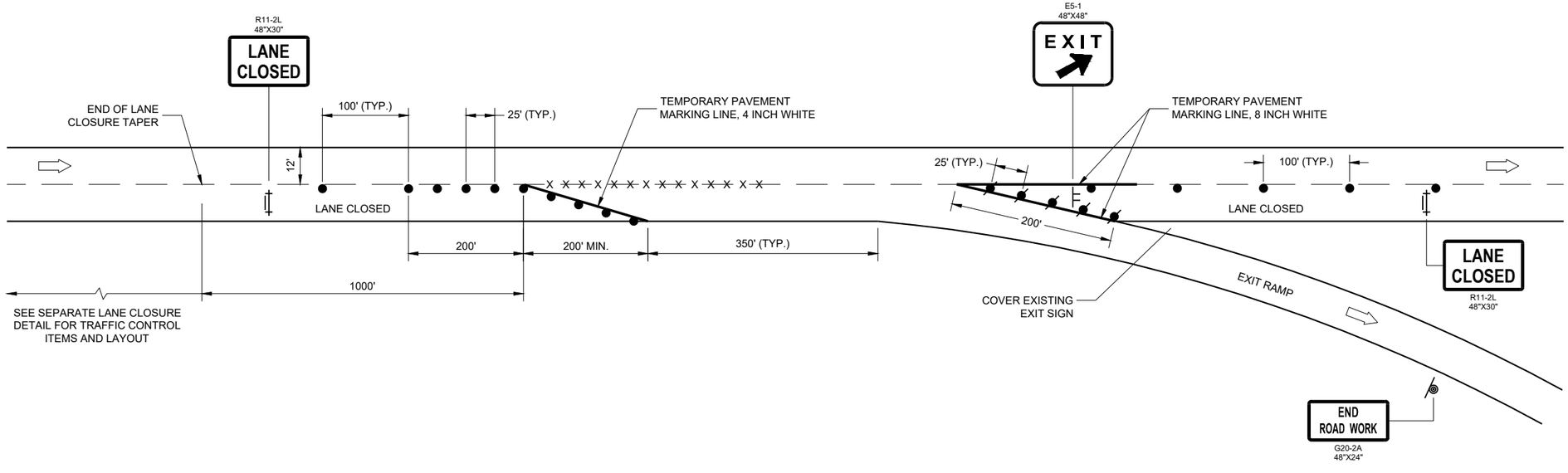
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



6

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SDD 15D15 - 06e

SDD15D15 - 06e

**TRAFFIC CONTROL,
PARALLEL EXIT RAMP
WITHIN LANE CLOSURE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

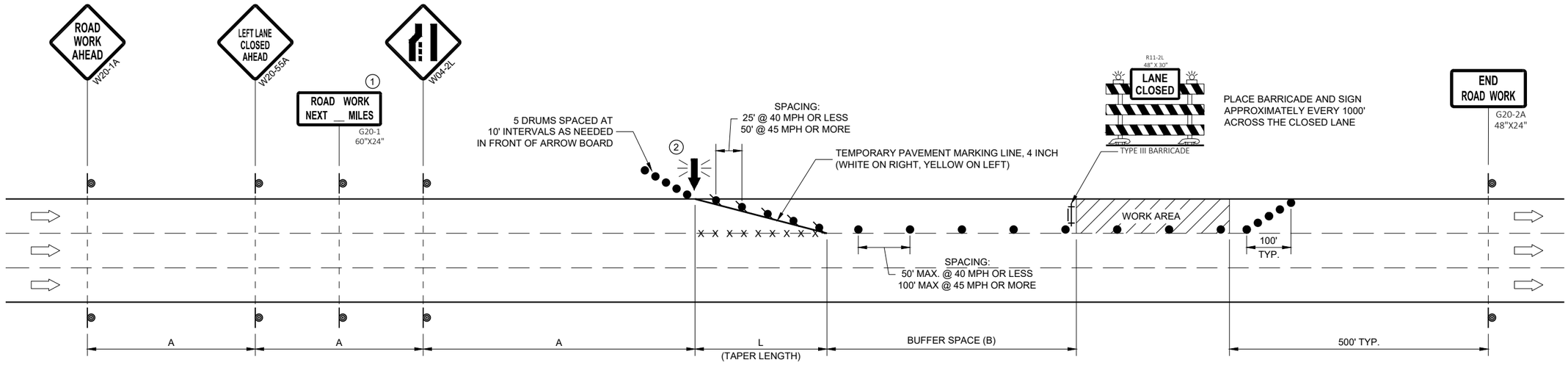
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

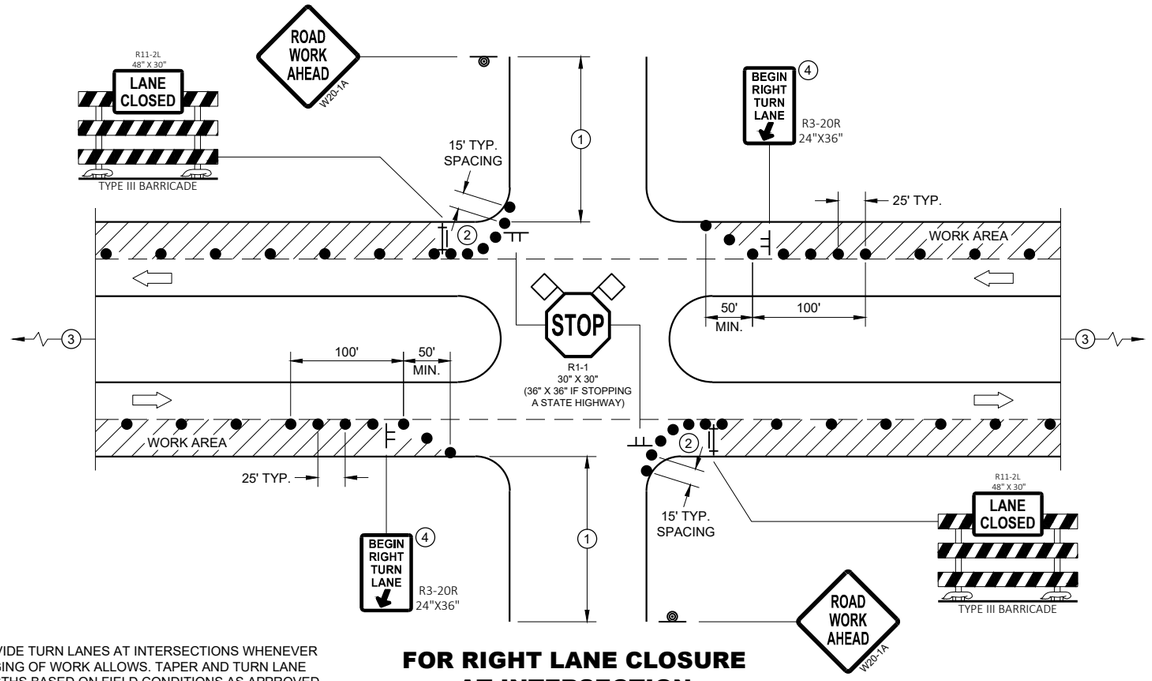
FHWA

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SDD 15D20 - 06a

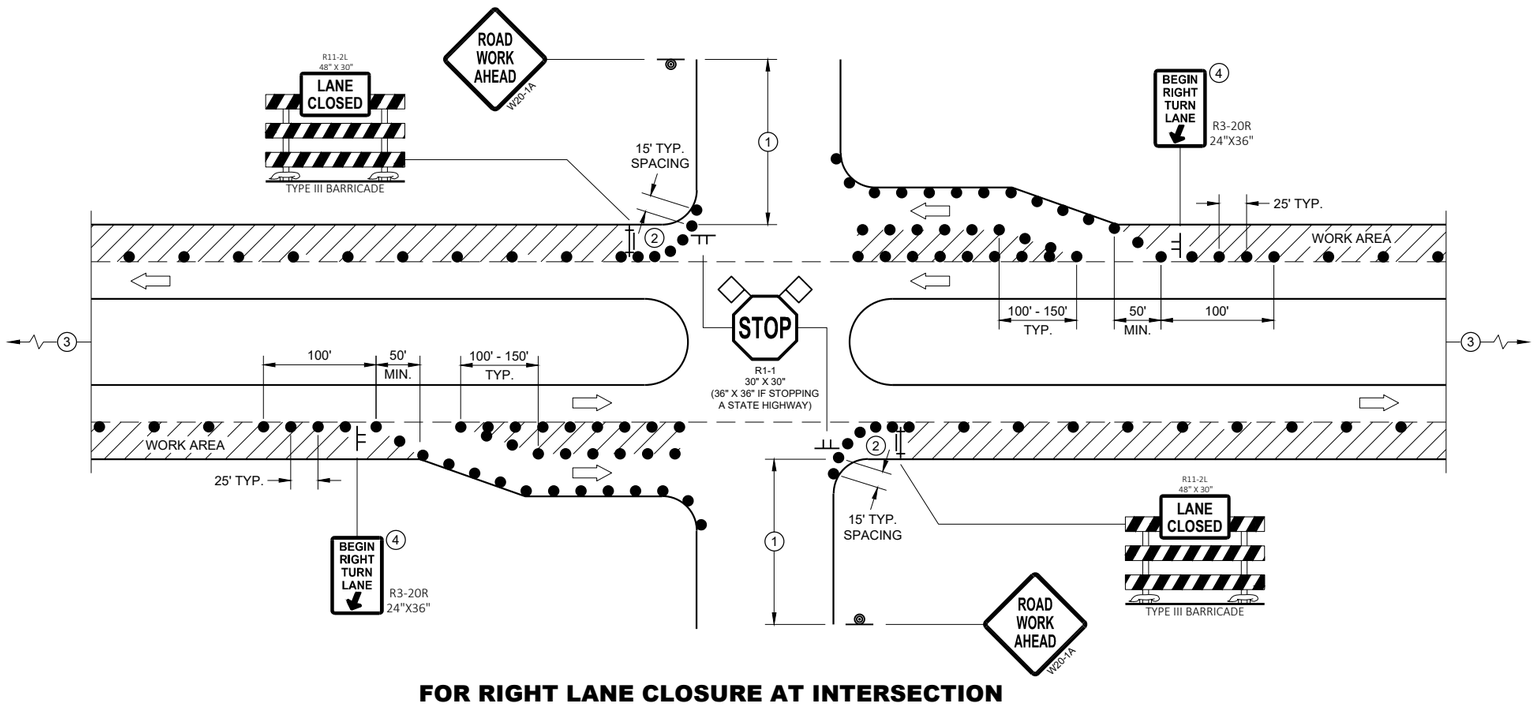
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SDD15D20 - 06a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR RIGHT LANE CLOSURE AT INTERSECTION



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

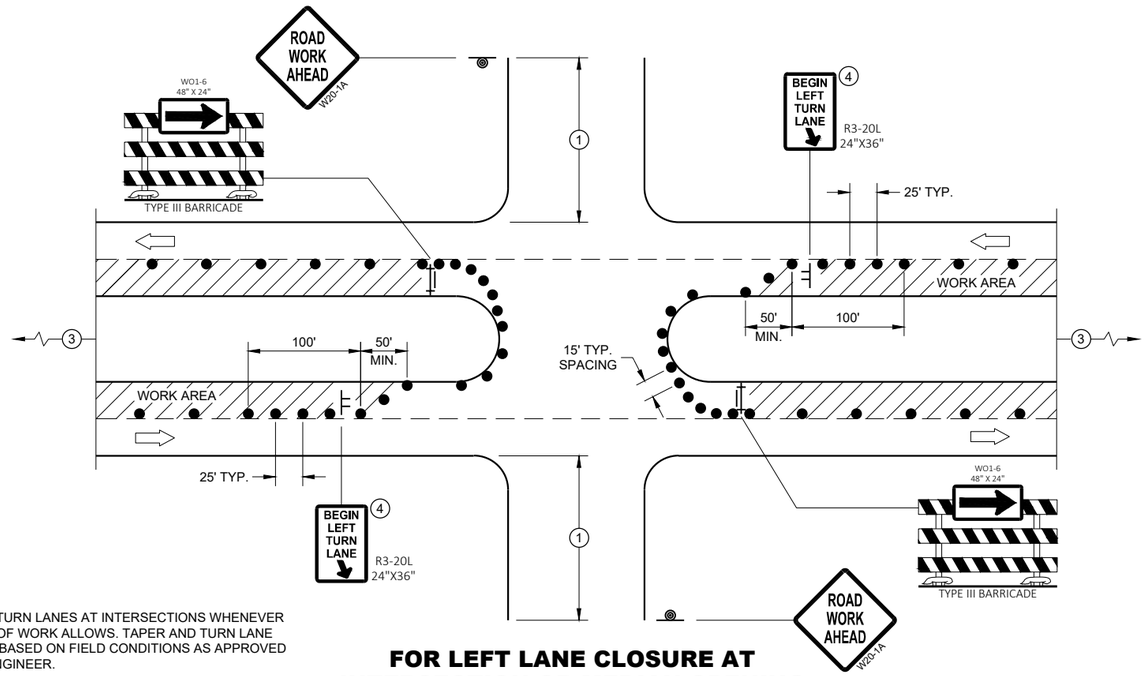
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D21 - 07a
SDD15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

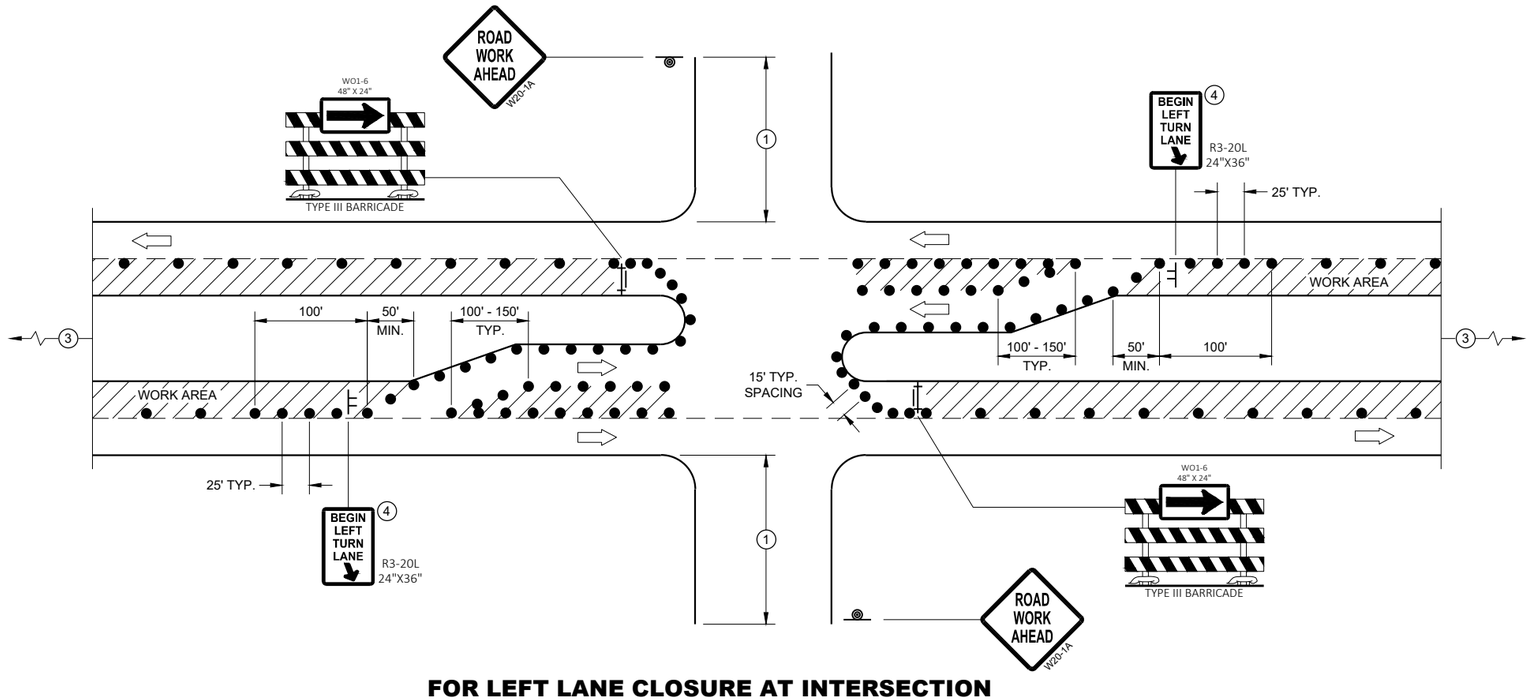
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D21 - 07b

6

SDD 15D21 - 07b

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45 MPH, USE SDD 15D14.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES.
FOR CLOSING LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

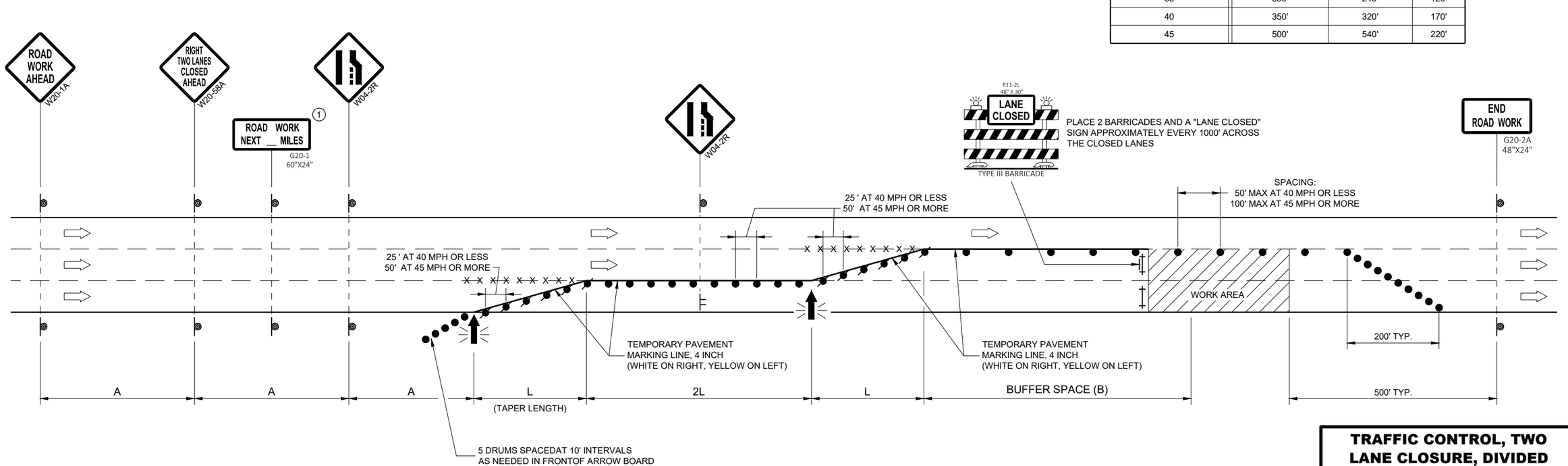
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'



TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

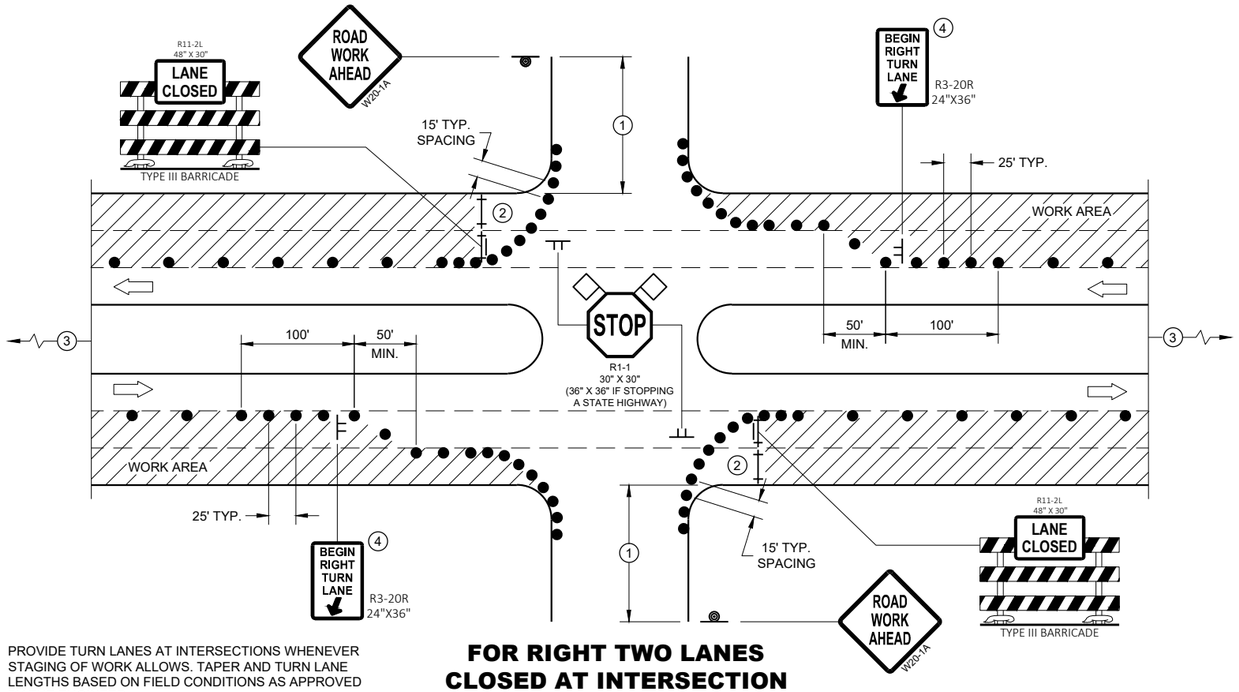
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6
SDD 15D22 - 05



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR RIGHT TWO LANES CLOSED AT INTERSECTION

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

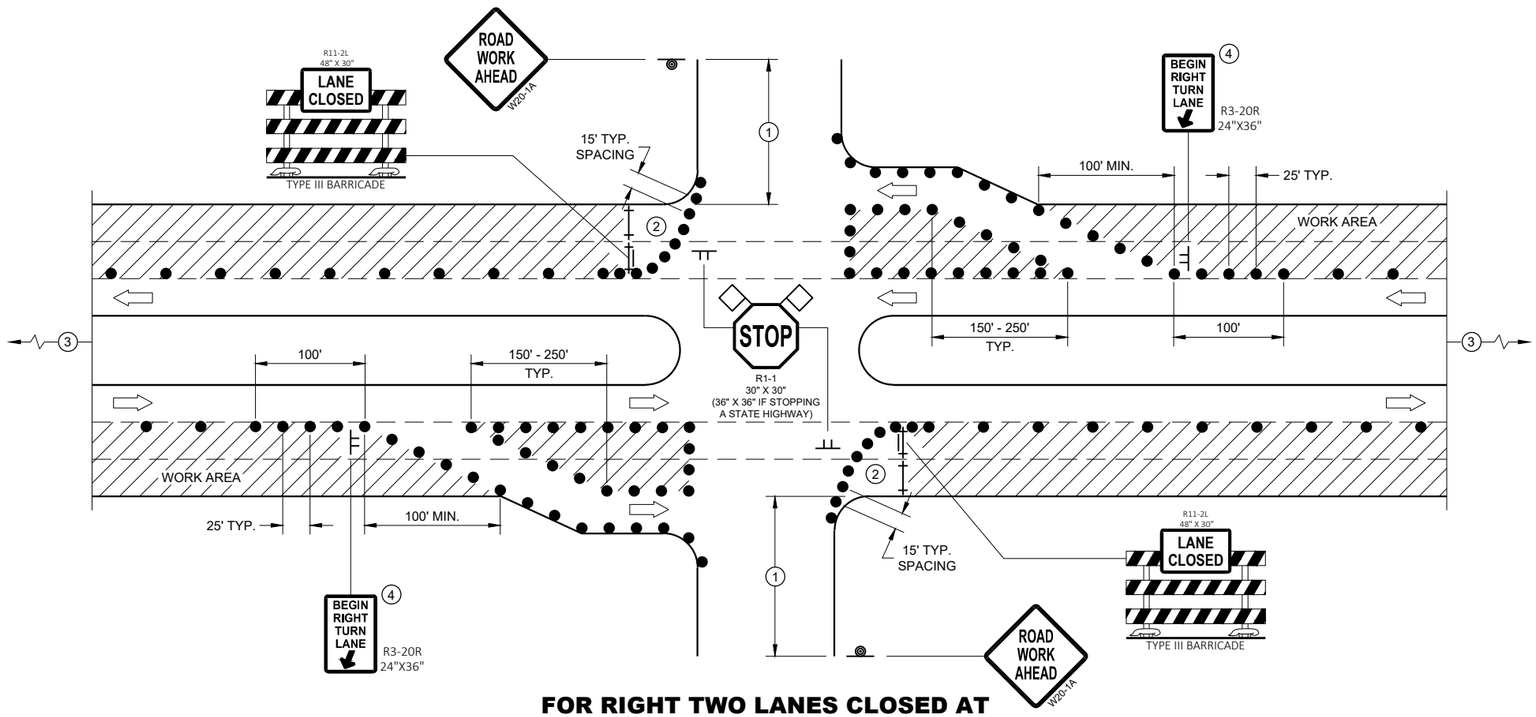
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR RIGHT TWO LANES CLOSED AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

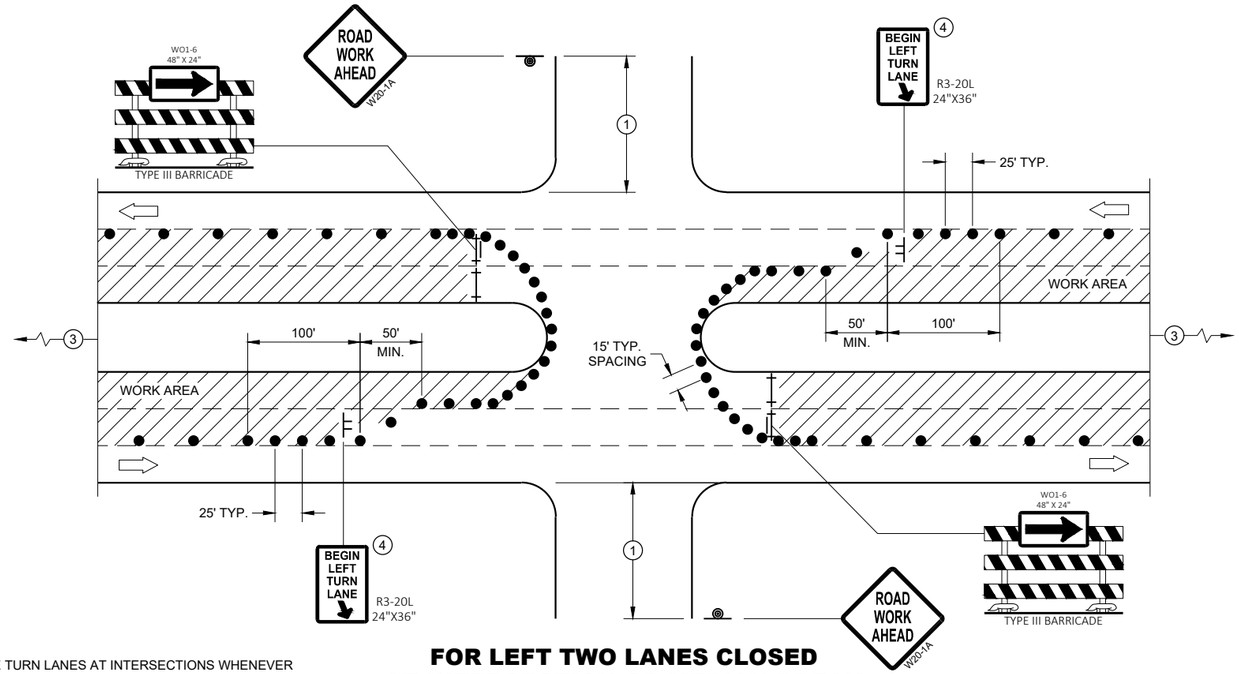
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN TWO RIGHT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D23 - 07a
SDD 15D23 - 07a



FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

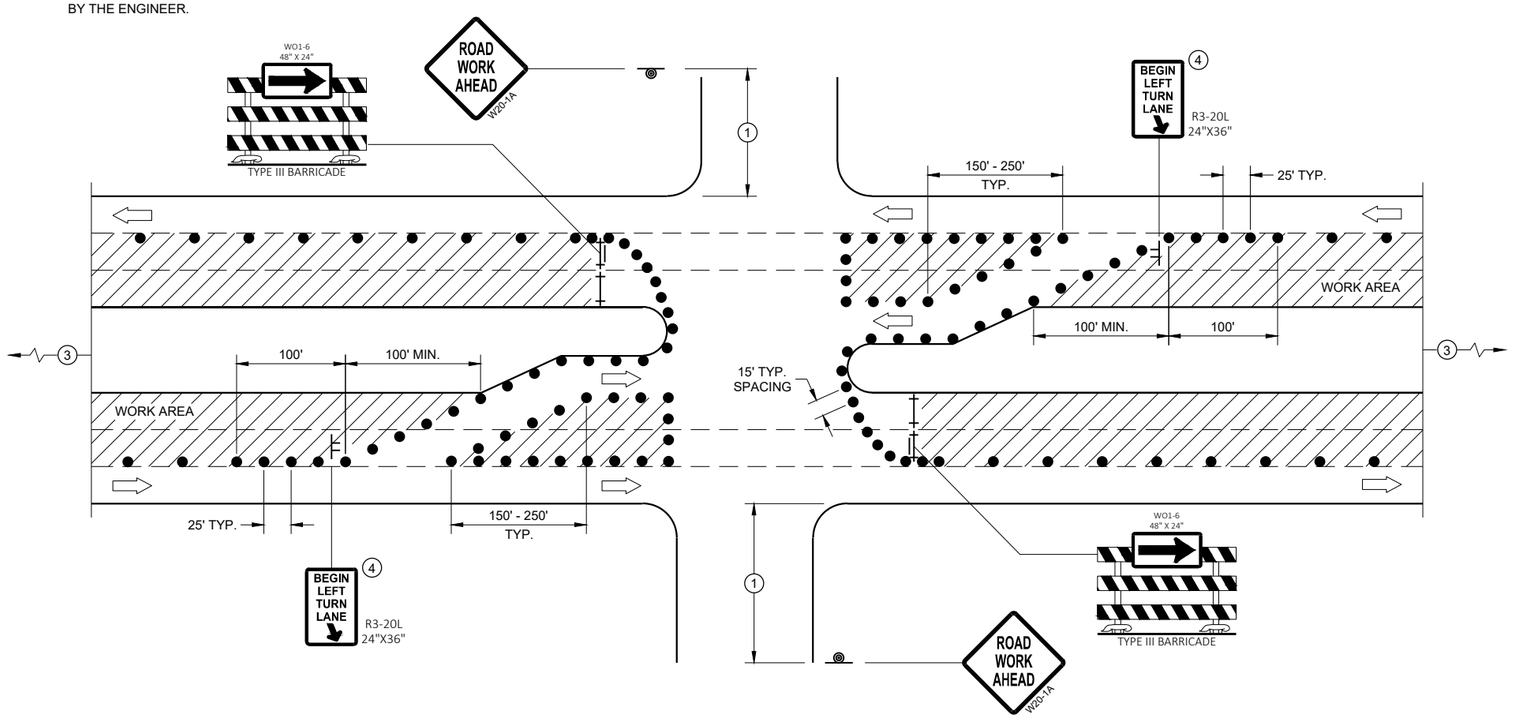
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN TWO LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE 638

FHWA

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

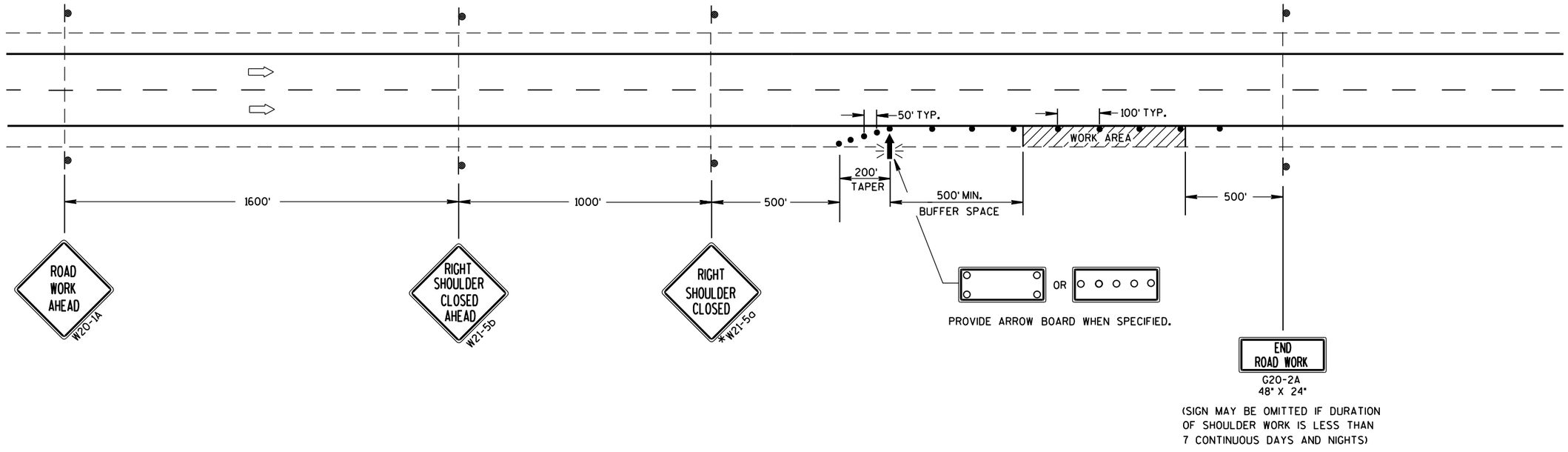
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

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GENERAL NOTES

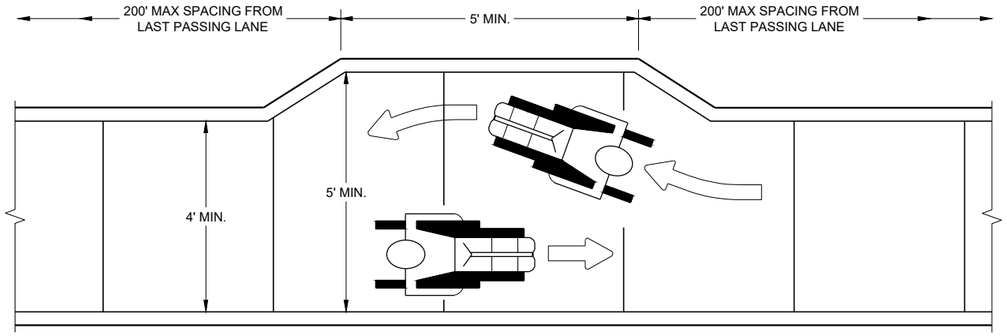
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

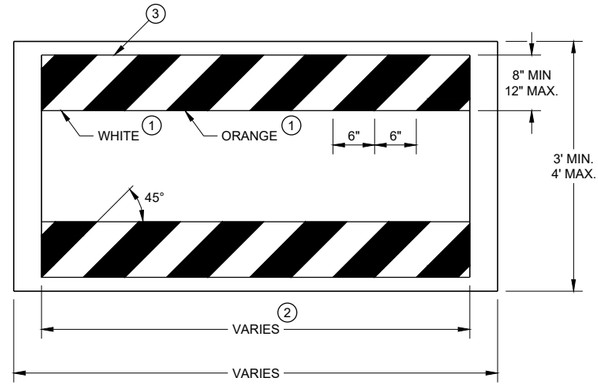
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

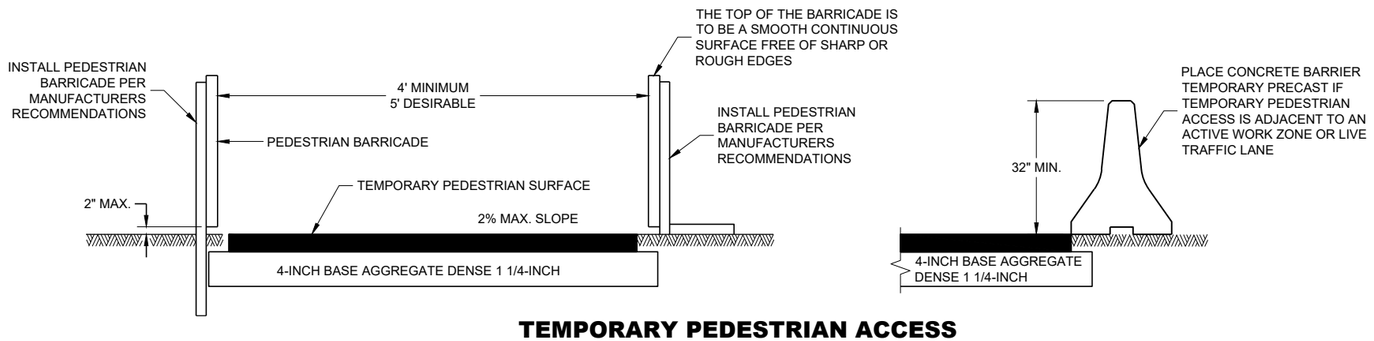
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN BARRICADE*

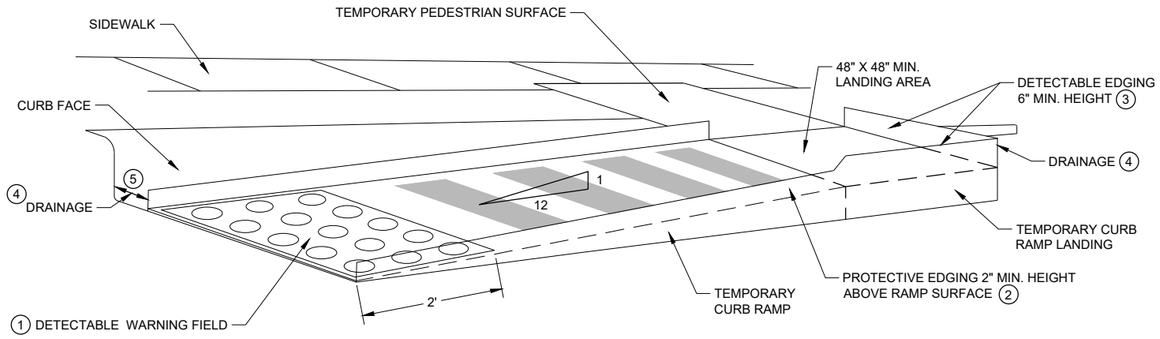


TEMPORARY PEDESTRIAN ACCESS

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

SDD 15D30 - 08a



PERSPECTIVE VIEW

GENERAL NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.

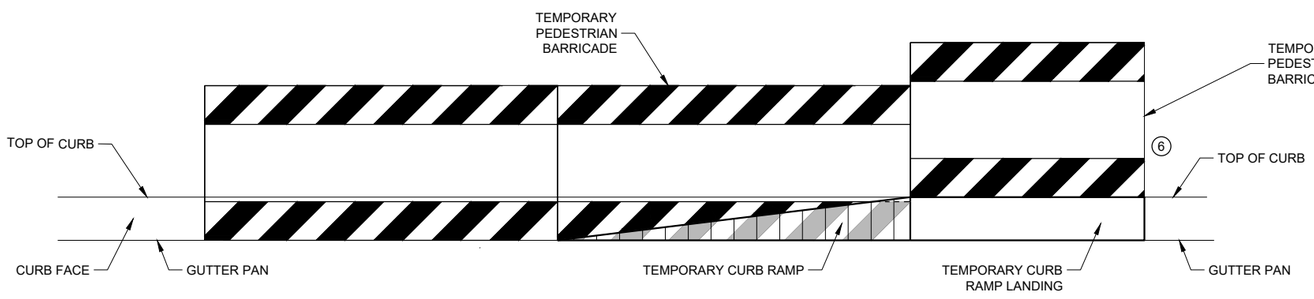
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

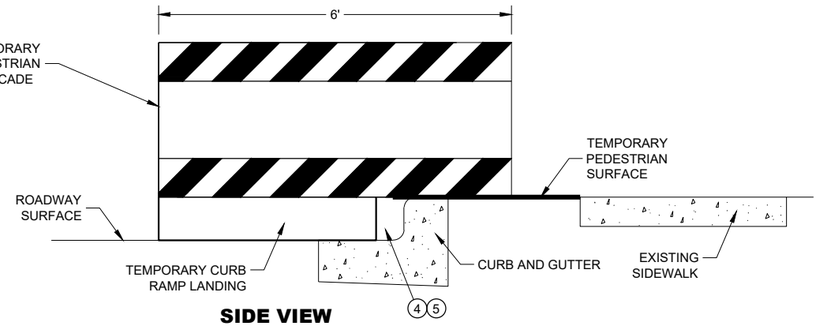
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.

(6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



FRONT VIEW



SIDE VIEW

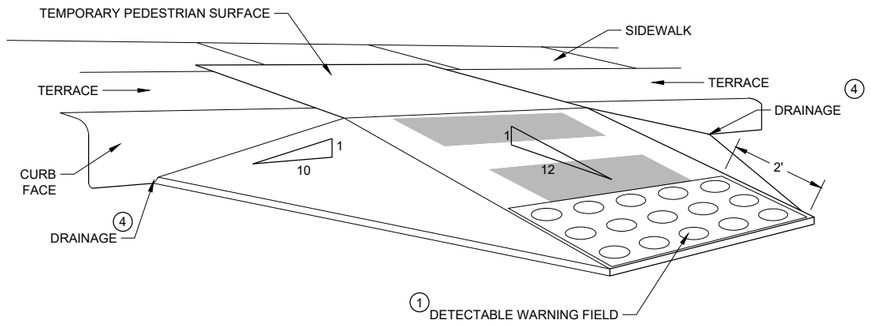
TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

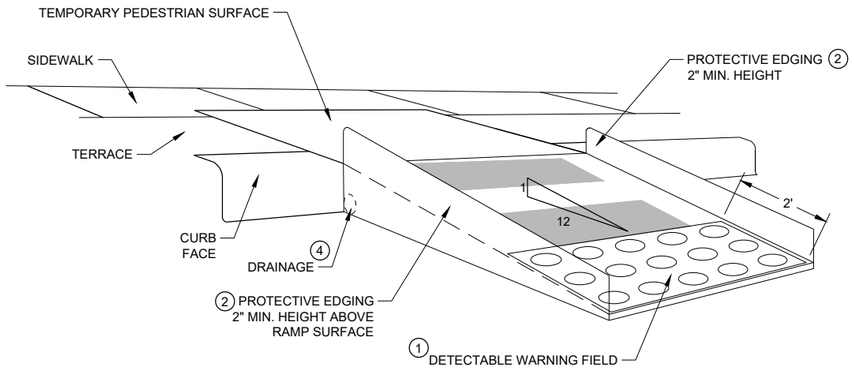
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 08b



WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

GENERAL NOTES

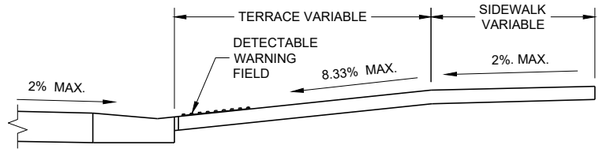
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

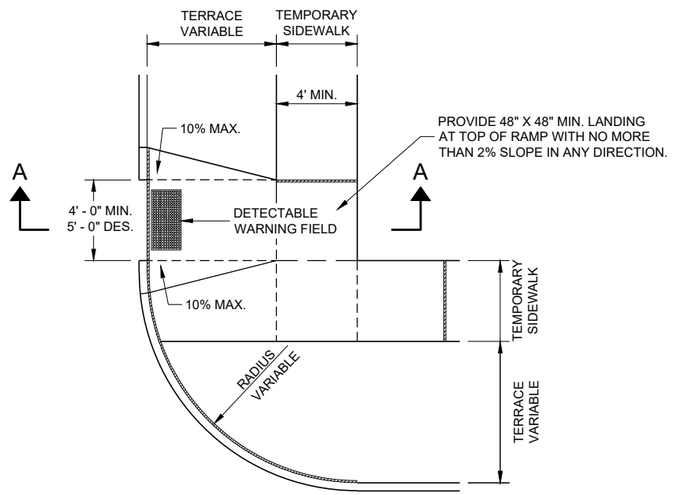
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



SECTION A - A



PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

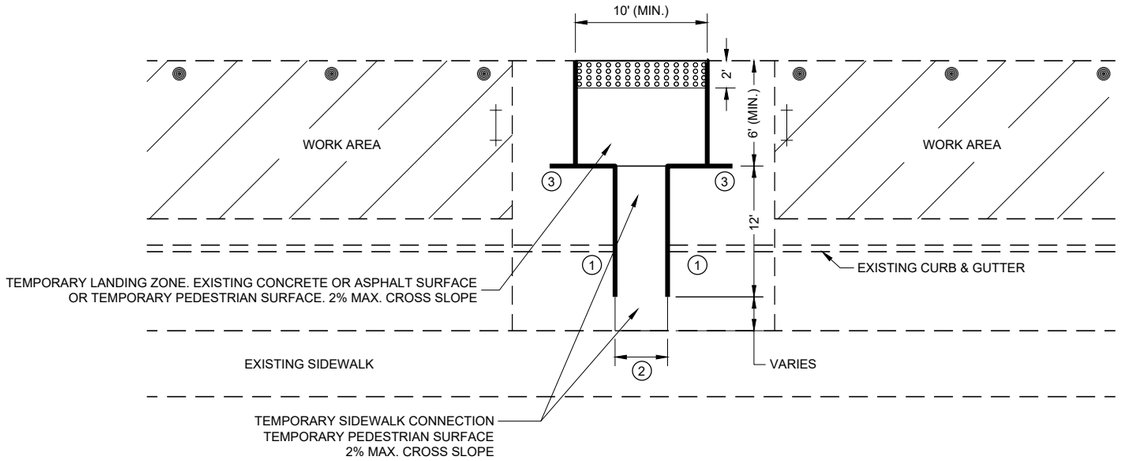
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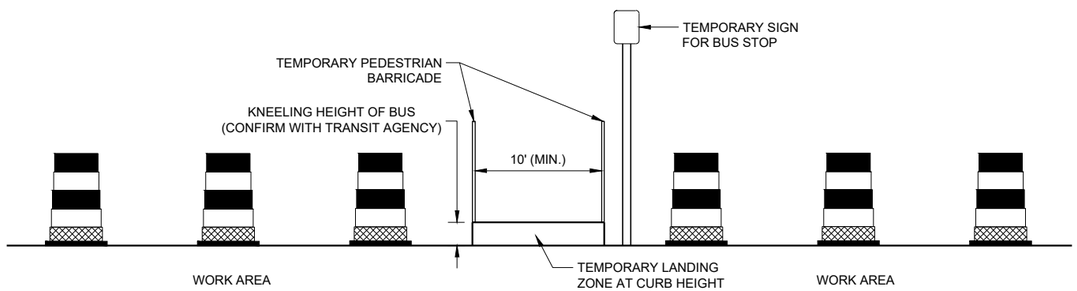
SDD 15D30-08d

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SDD 15D30-08d



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

(1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.

(3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY DETECTABLE WARNING FIELD
- WORK AREA

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

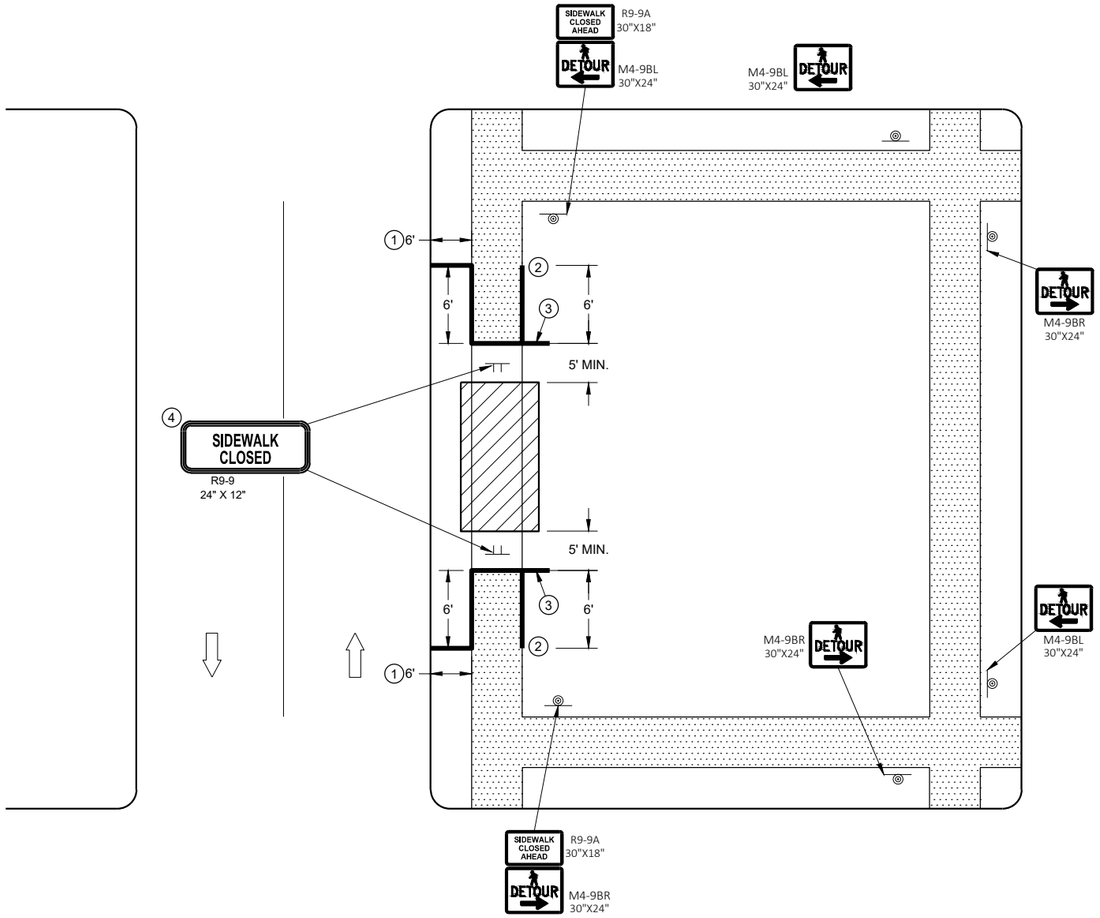
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 08e

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY PEDESTRIAN SURFACE
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

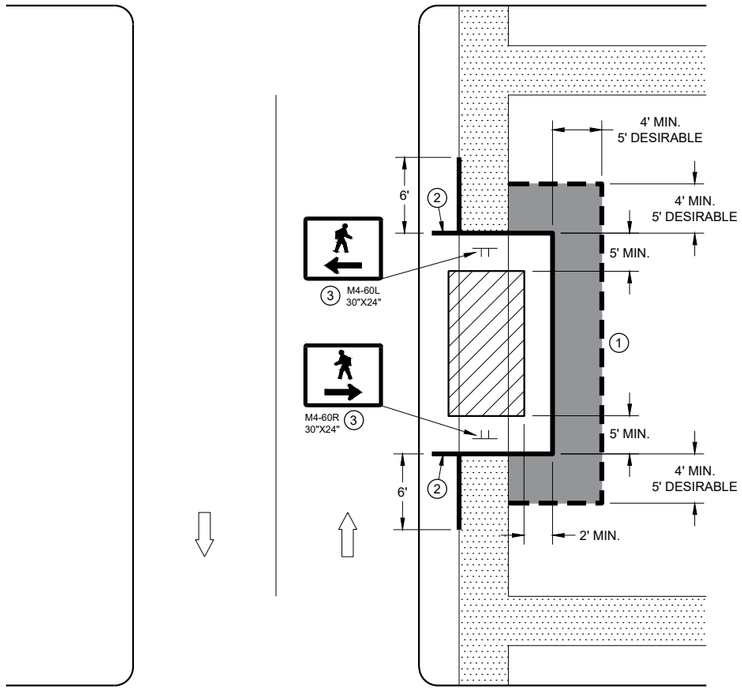
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

1. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
2. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK DIVERSION
SINGLE SIDE

6

SDD 15D30 - 08g

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD15D30 - 08g

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

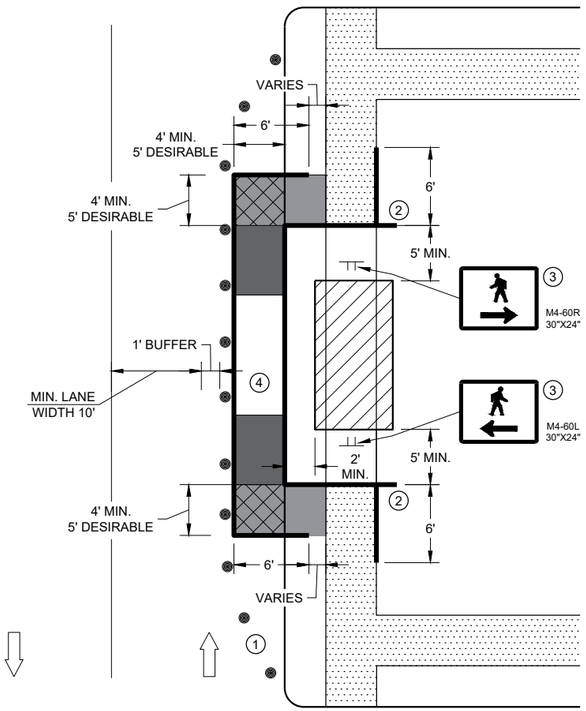
GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.
2. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.
4. USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.



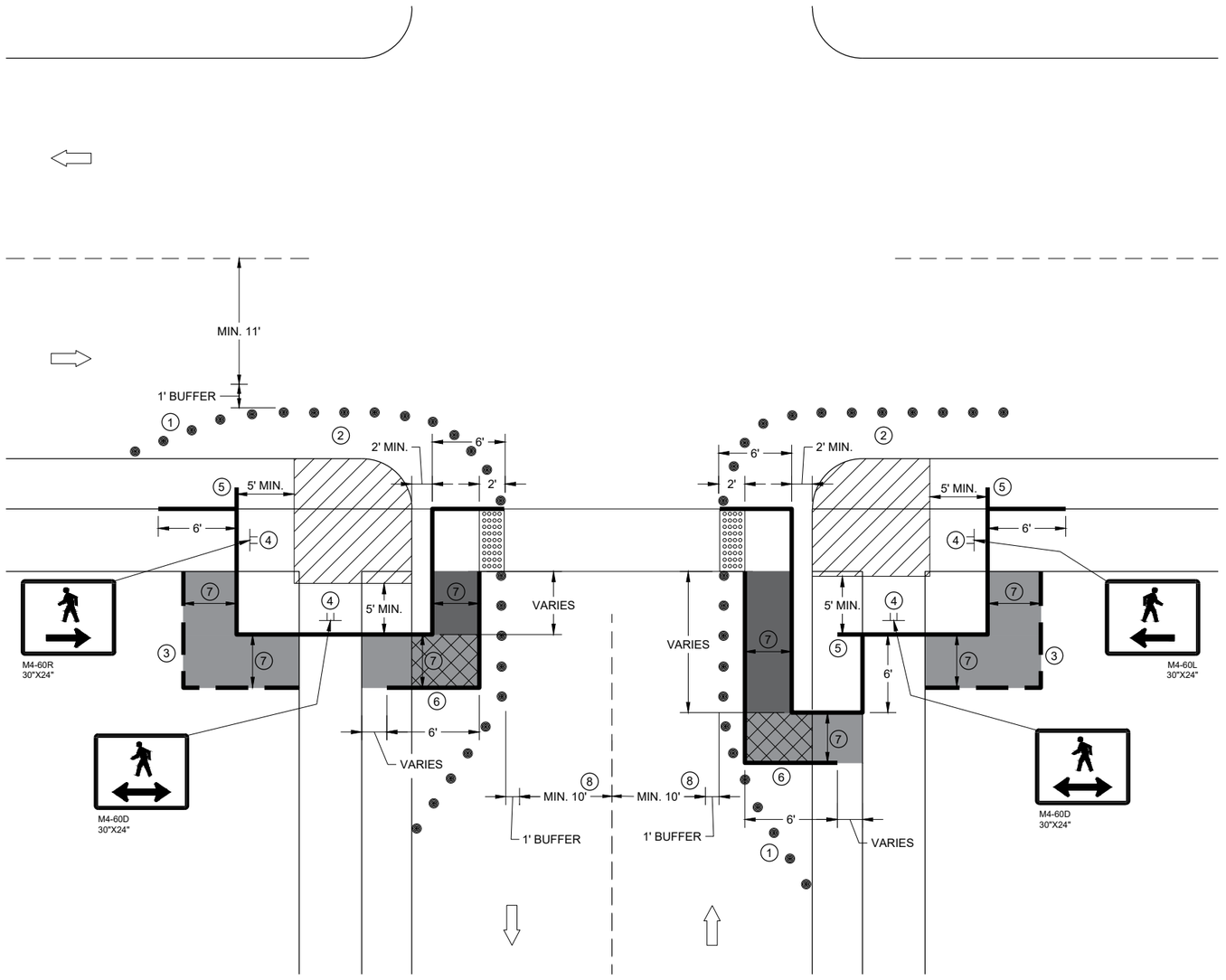
SIDEWALK DIVERSION, SINGLE SIDE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 08h



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.

(2) PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS

(3) USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.

(4) MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.

(5) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.

(6) IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.

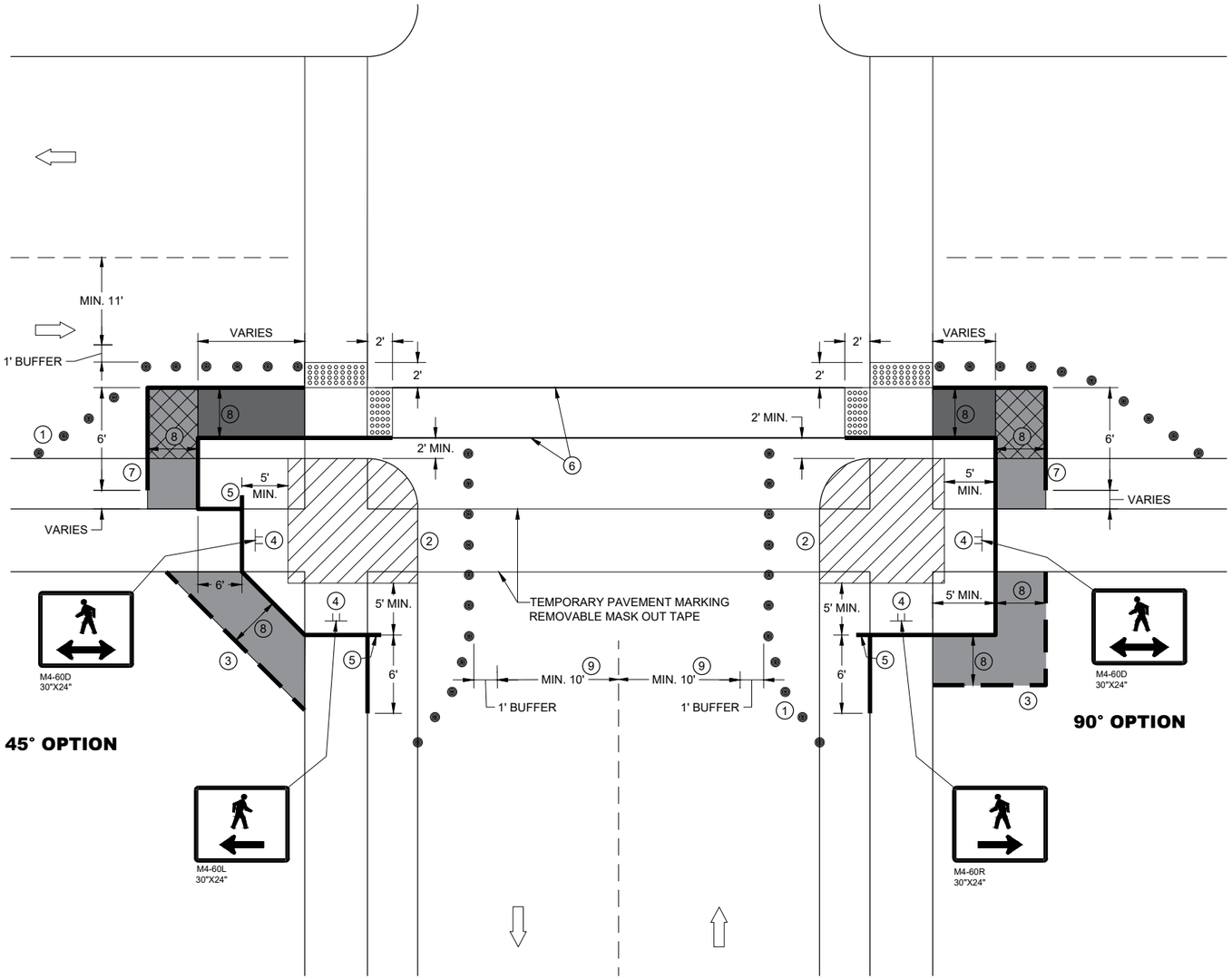
(7) 4 FEET MINIMUM, 5 FEET DESIRABLE

(8) IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION



CURB RAMP PEDESTRIAN TRAFFIC CONTROL

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. WHITE 6" TEMPORARY PAVEMENT MARKING
7. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
8. 4 FEET MINIMUM, 5 FEET DESIRABLE
9. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

SDD 15D30 - 08j

6

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER
SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL
CHANGE SUCH AS A CROSSOVER MANEUVER.

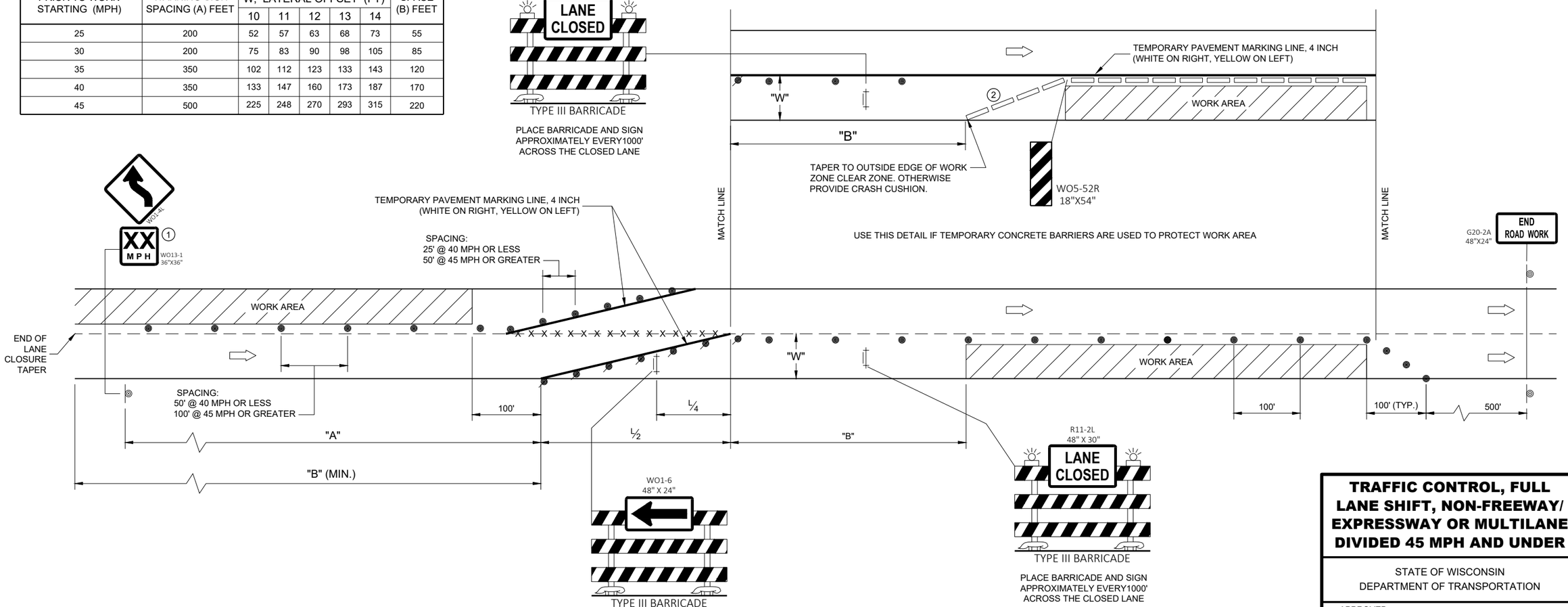
(1) USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
		10	11	12	13	14	
25	200	52	57	63	68	73	55
30	200	75	83	90	98	105	85
35	350	102	112	123	133	143	120
40	350	133	147	160	173	187	170
45	500	225	248	270	293	315	220



PLACE BARRICADE AND SIGN APPROXIMATELY EVERY1000' ACROSS THE CLOSED LANE



TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

650

FHWA

6

SDD 15D40 - 04a

6

SDD 15D40 - 04a

LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

CONCRETE BARRIER TEMPORARY PRECAST

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

L, TAPER LENGTH (MPH)							
SPEED (MPH)	W, LATERAL OFFSET (FT)						
	10	11	12	13	14	15	16
45	450	495	540	585	630	675	720
50	500	550	600	650	700	750	800
55	550	605	660	715	770	825	880
60	600	660	720	780	840	900	960
65	650	715	780	845	910	975	1040
70	700	770	840	910	980	1050	1120



OR



LOCATED 3000 FEET BEYOND THE "ROAD WORK 1 MILE" (W20-1F) SIGN



R2-1
48"X60"

OR



R2-1
48"X60"

(BLACK AND WHITE) LOCATED 700 FEET BEYOND THE W03-5 SIGN

IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 3 MILES.

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

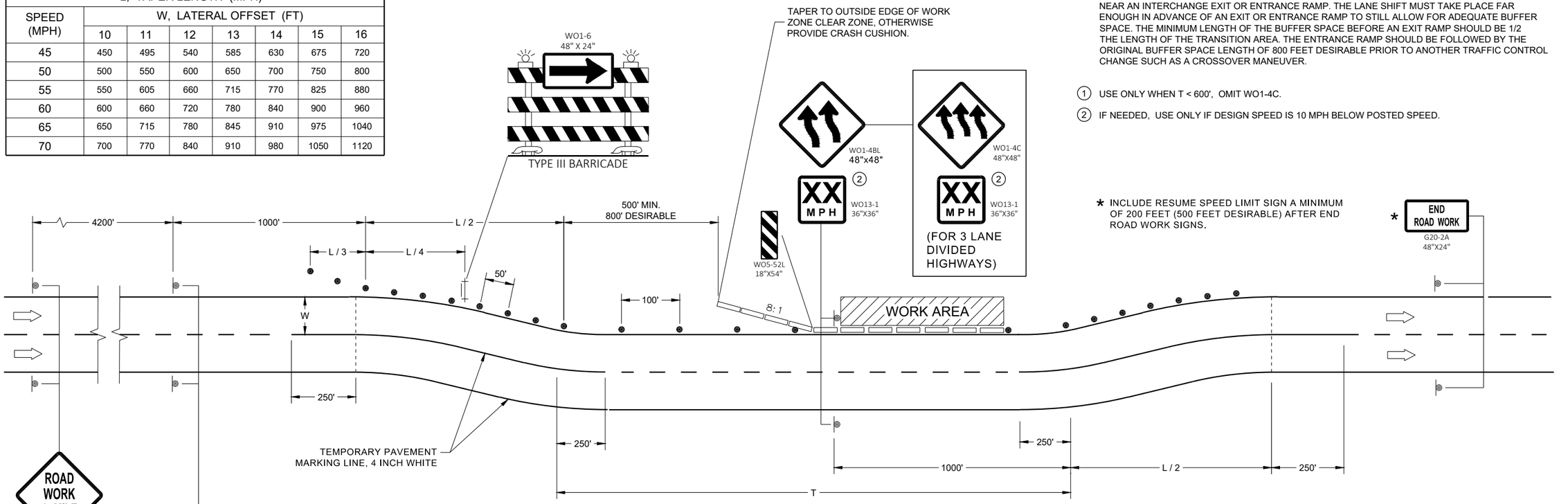
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T < 600', OMIT WO1-4C.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.



TRAFFIC CONTROL
MULTIPLE LANE SHIFT
MULTILANE DIVIDED ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

651

FHWA

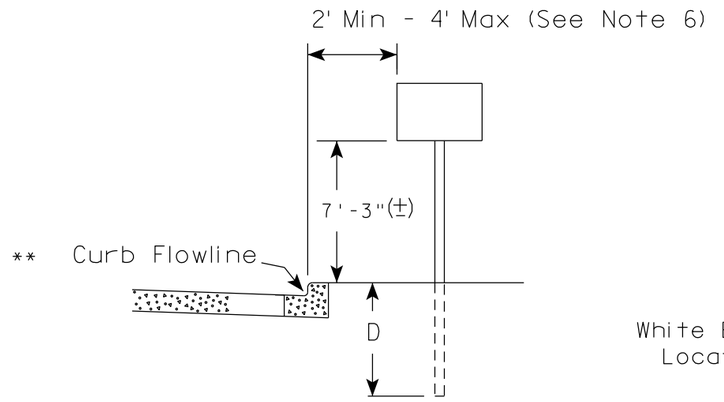
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SDD 15D41 - 02

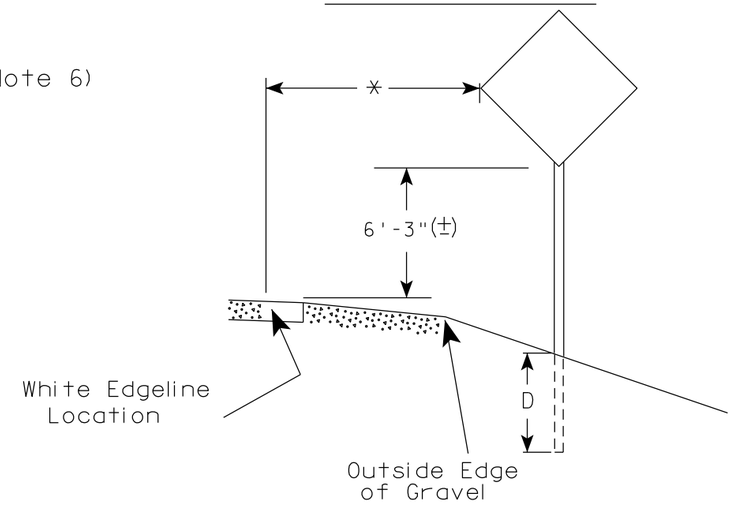
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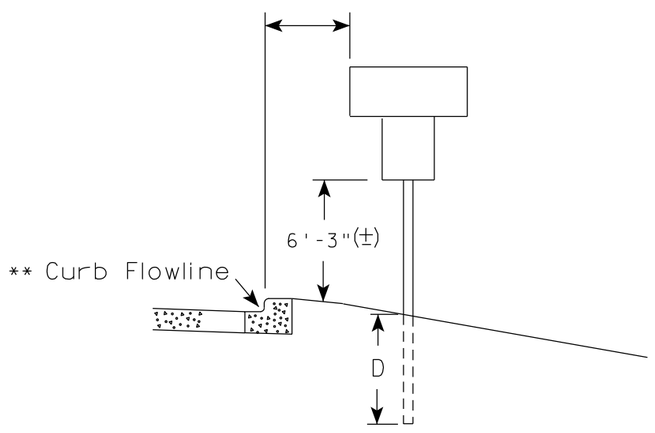
SDD 15D41 - 02

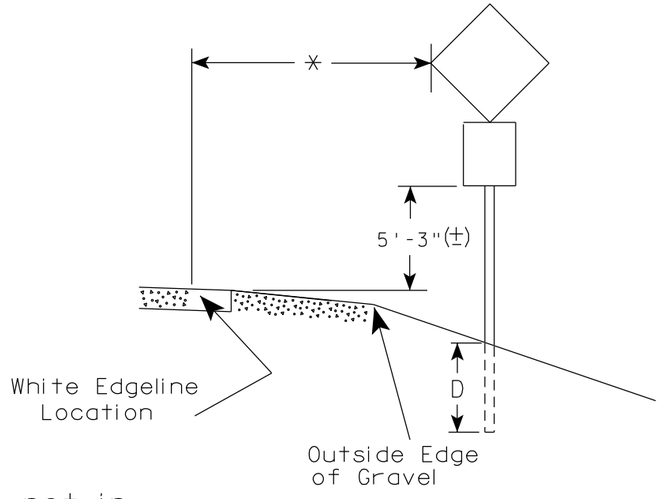
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

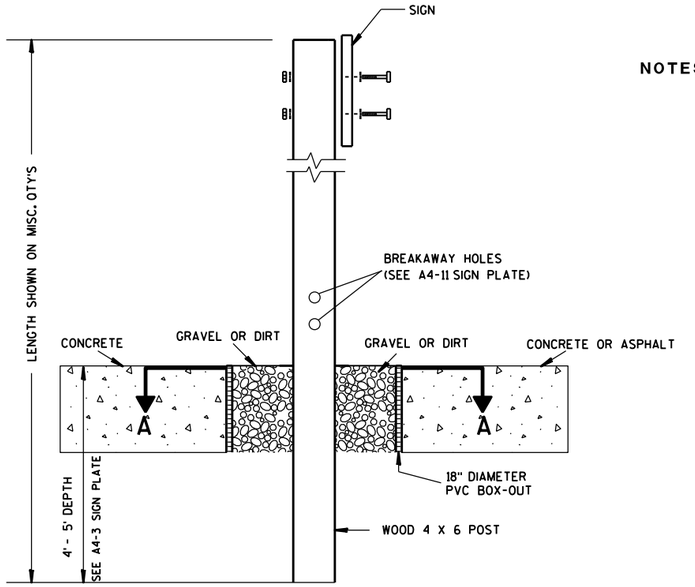
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

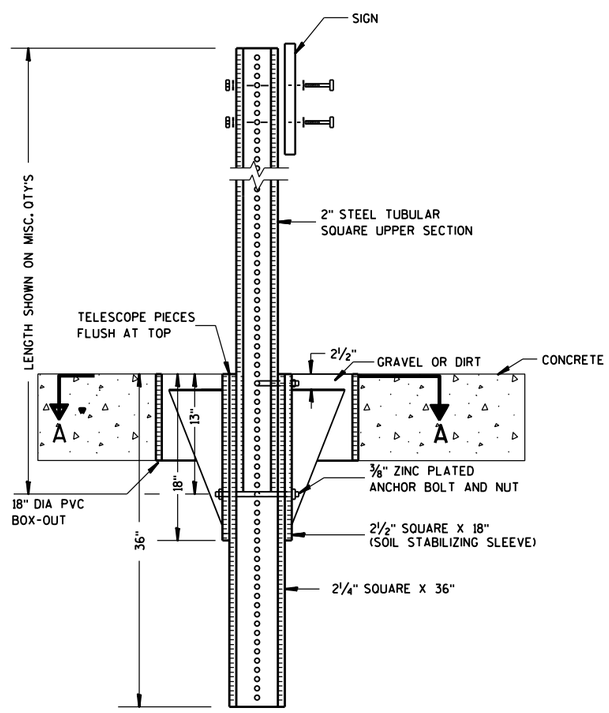
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 652	E



ELEVATION VIEW

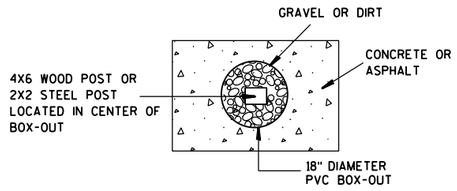
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

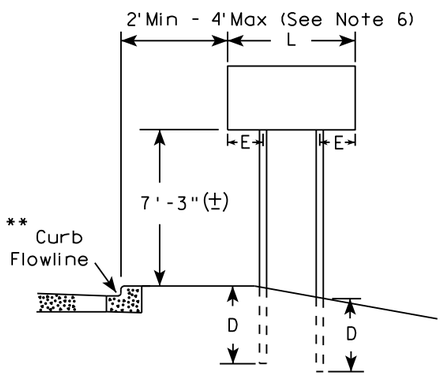
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

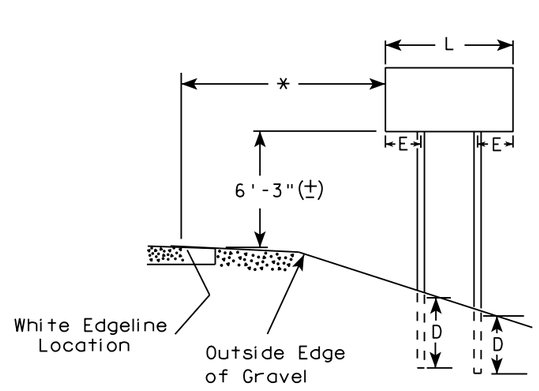
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

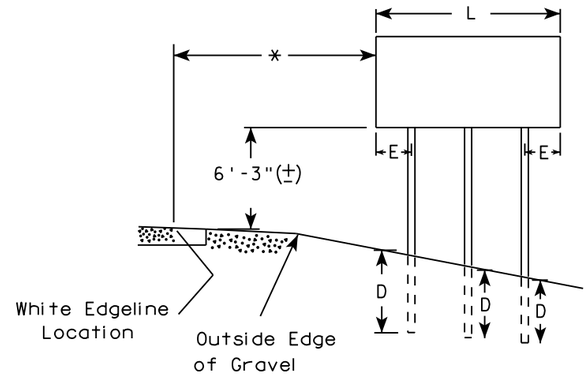
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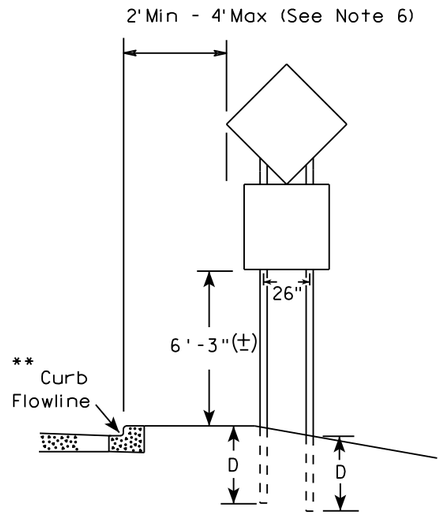
URBAN AREA



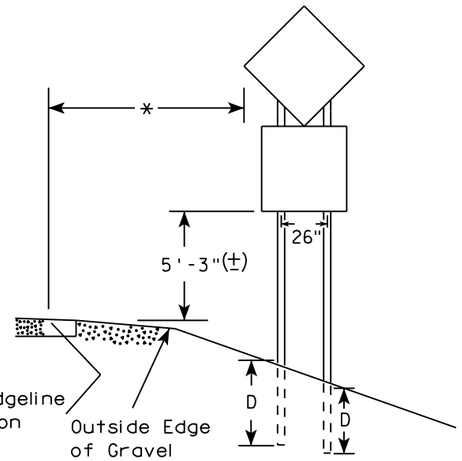
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

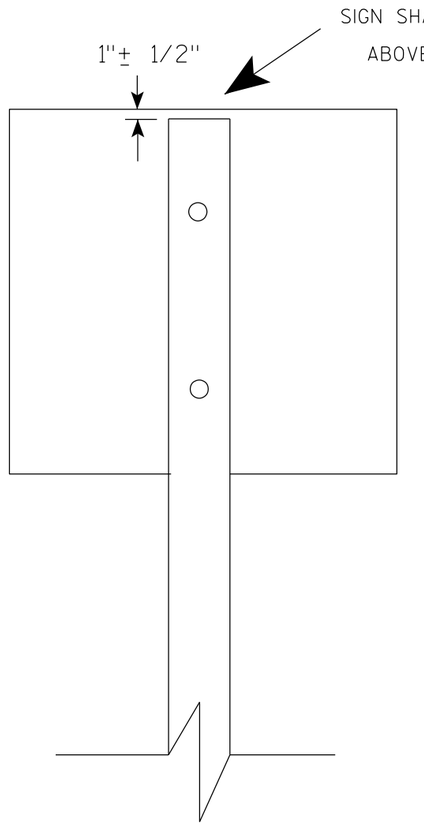
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

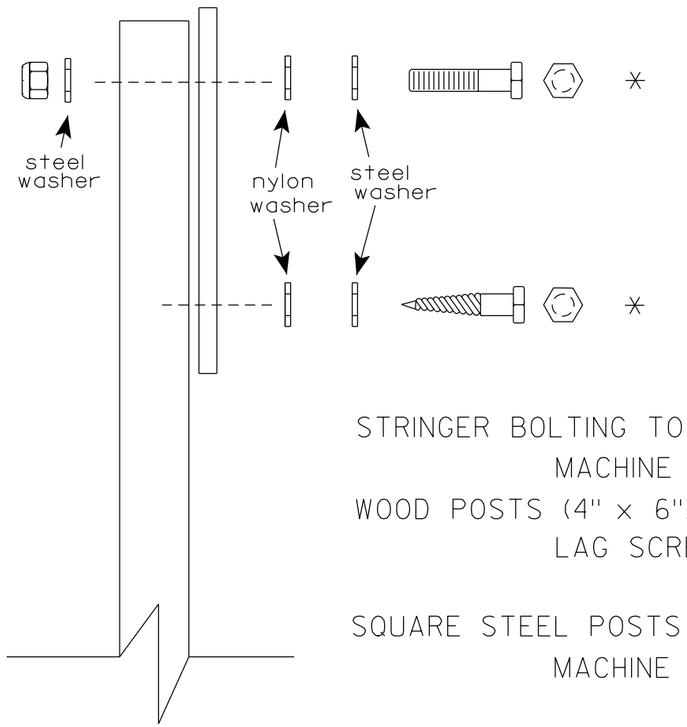
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 654	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

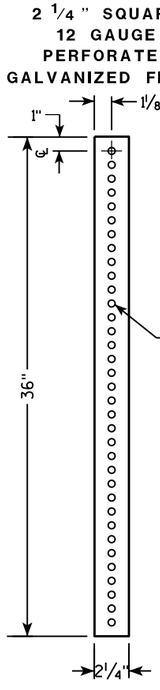
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

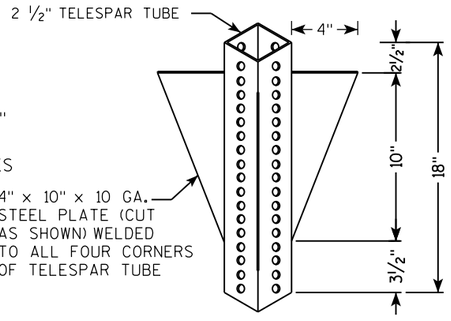
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

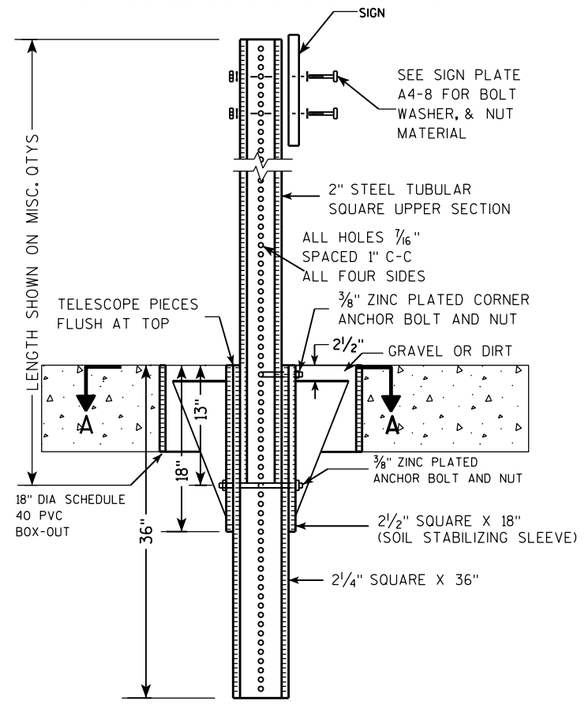
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



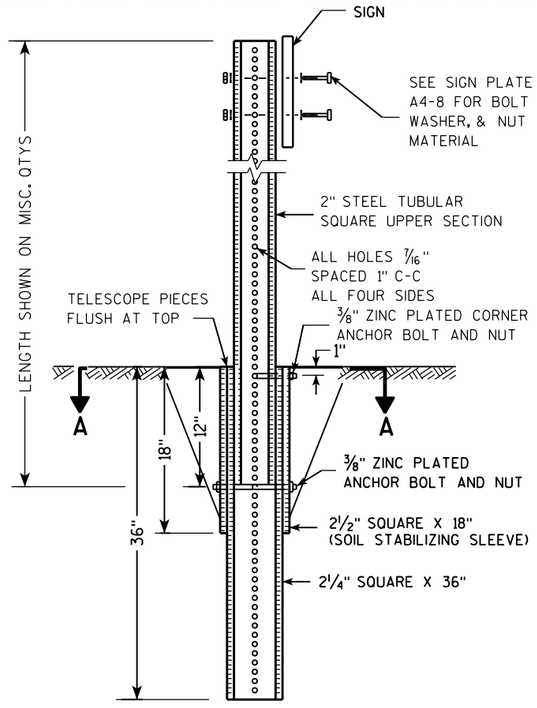
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

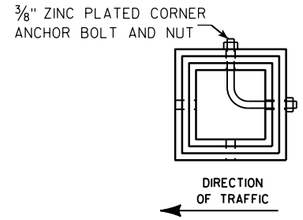


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

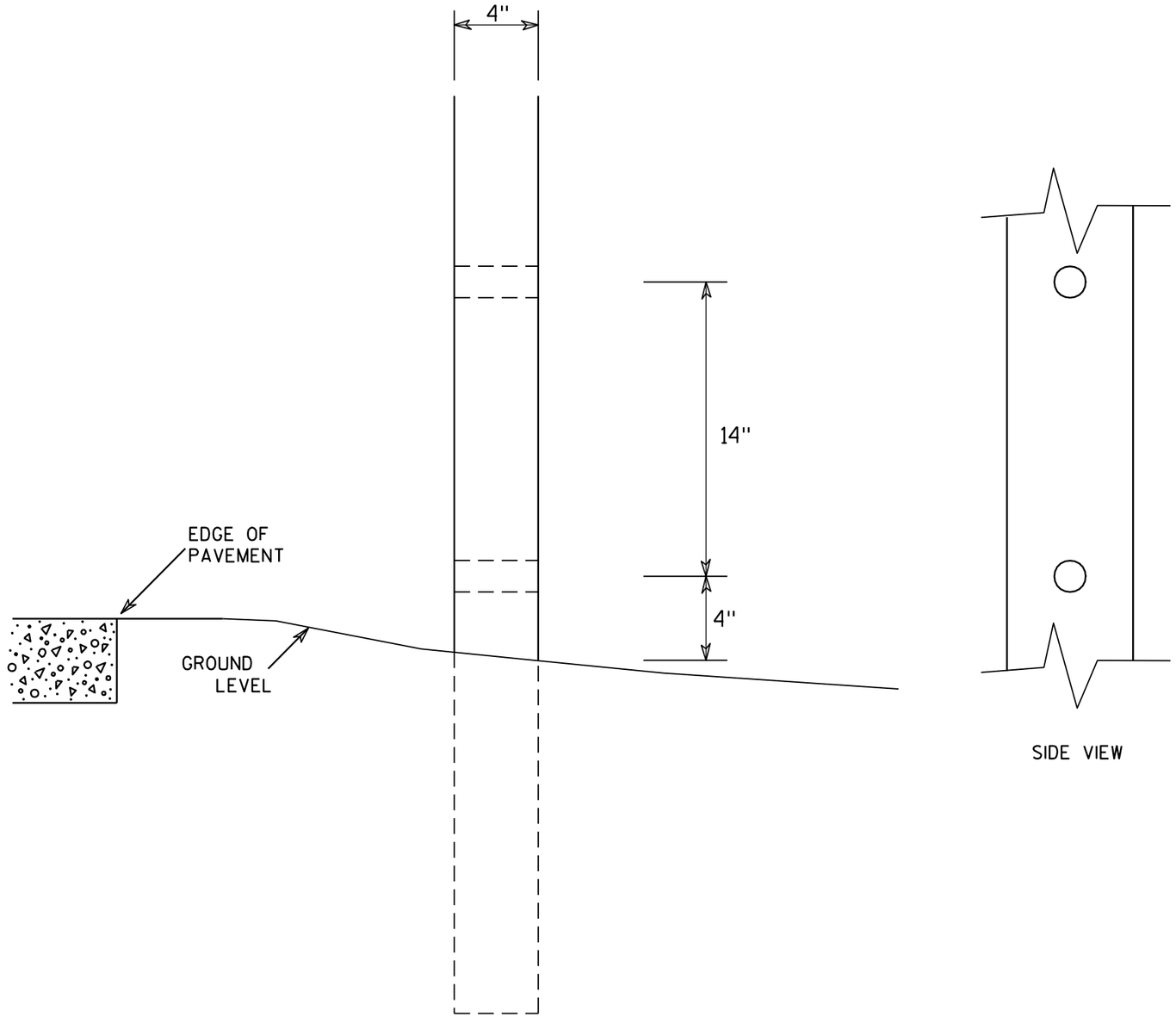
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 656 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

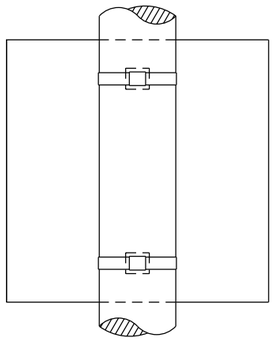
APPROVED Chester J Spang for State Traffic Engineer

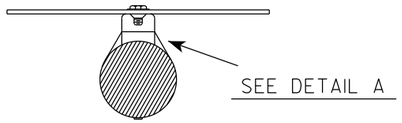
DATE 3/27/97 PLATE NO. A4-11.2

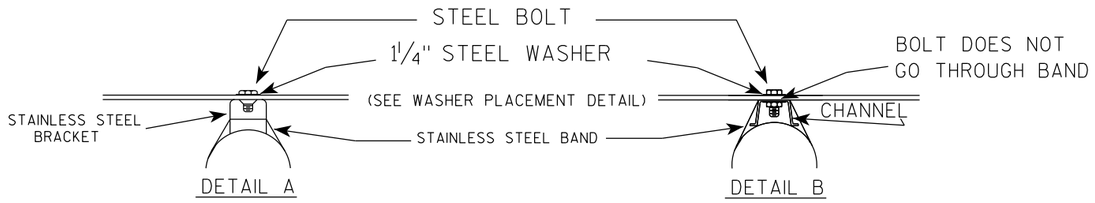
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 657	E

BANDING

SINGLE SIGN



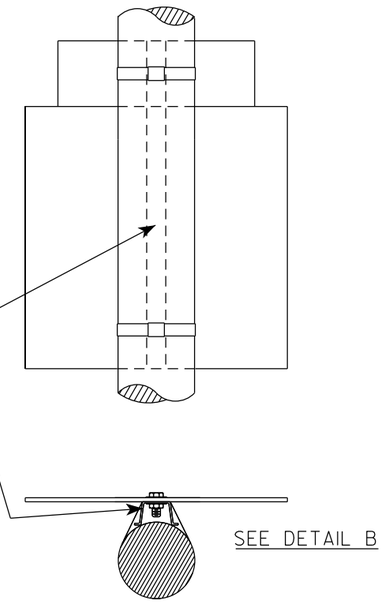




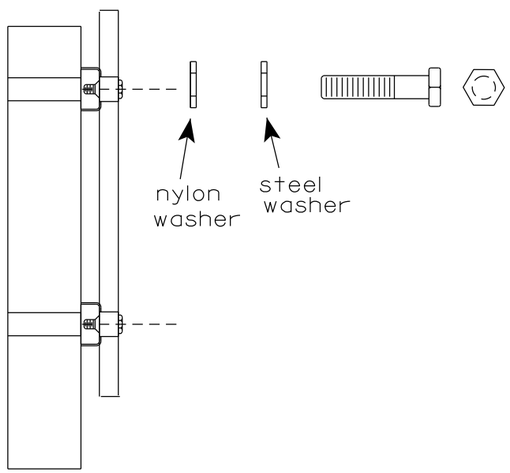
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

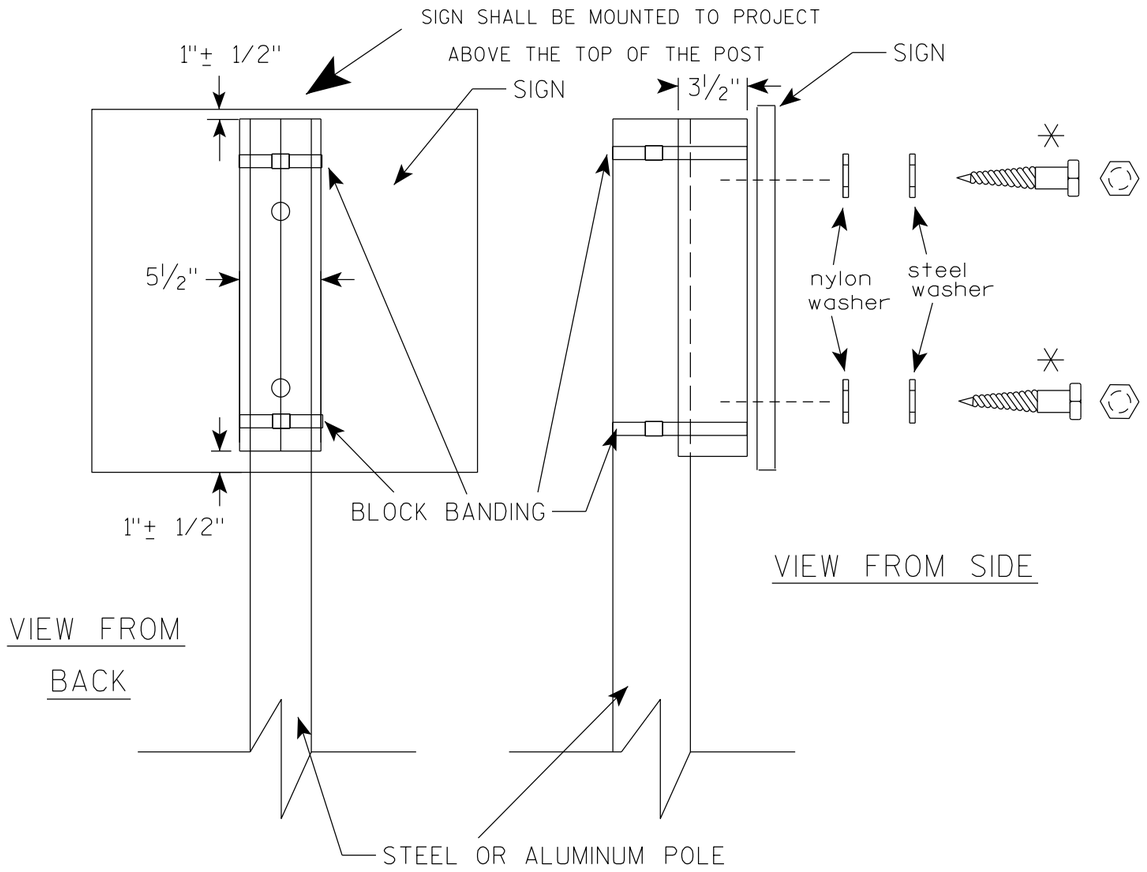
DATE 6/10/19 PLATE NO. A5-9.4

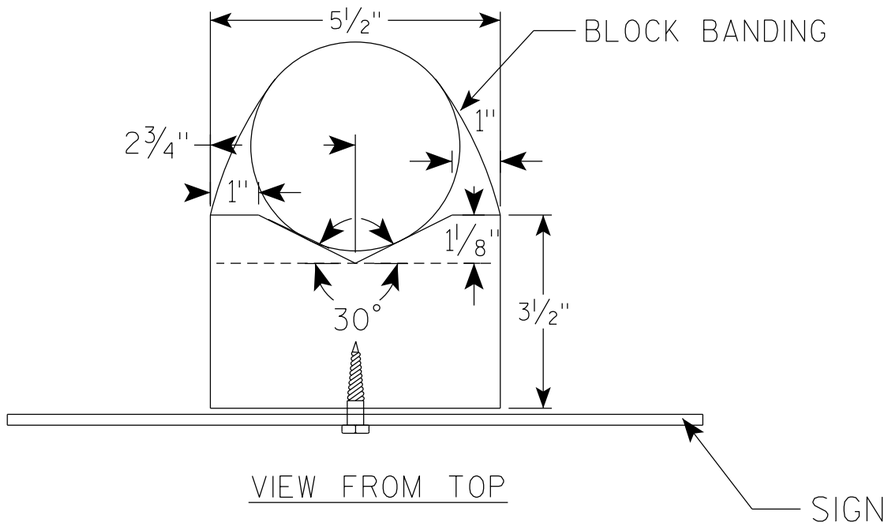
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 658	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

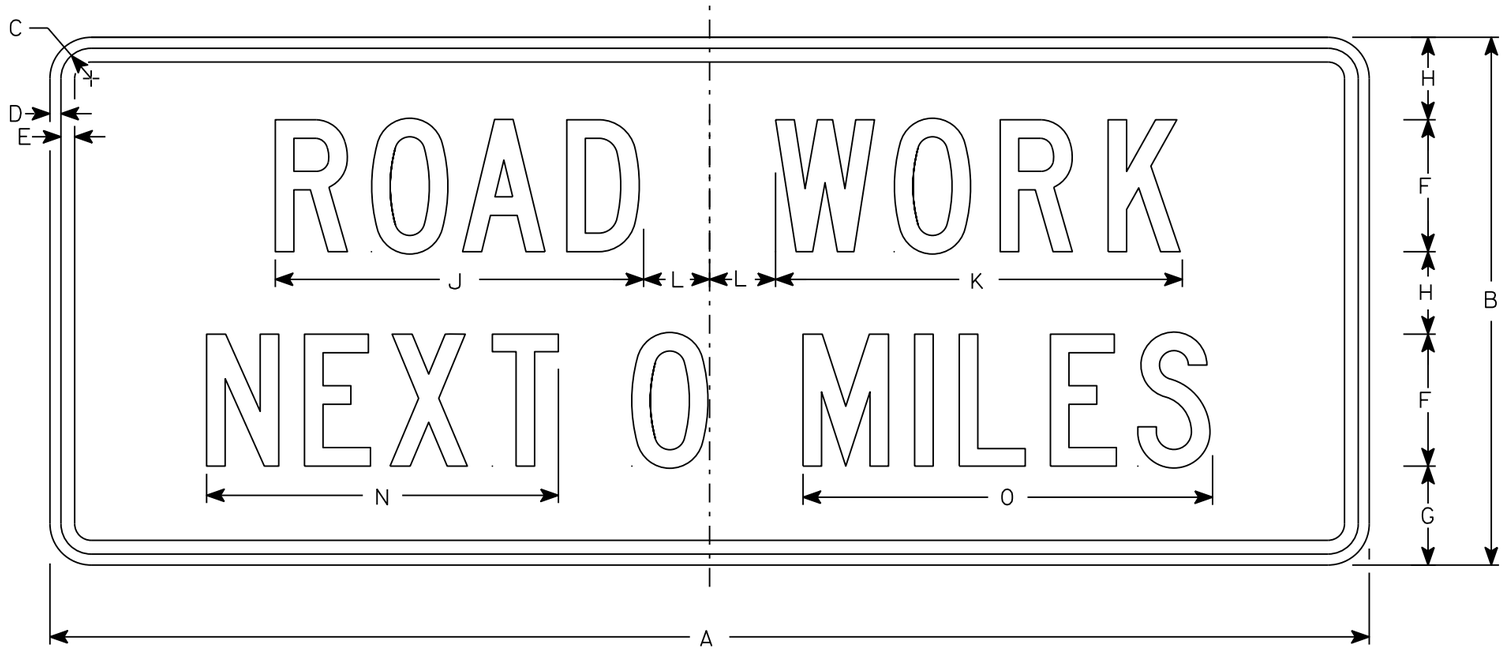
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 659 E



G20-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

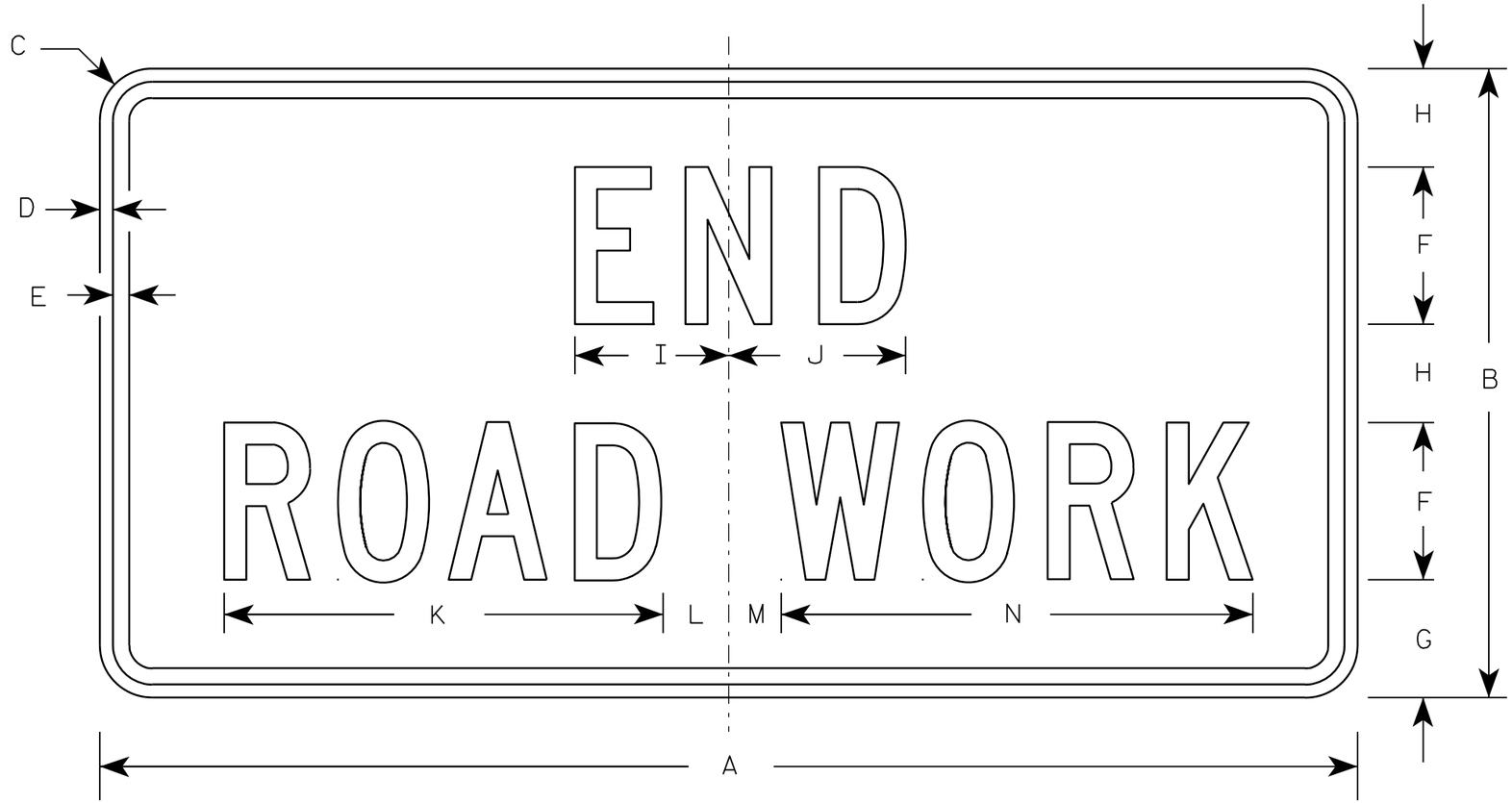
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 660 | E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

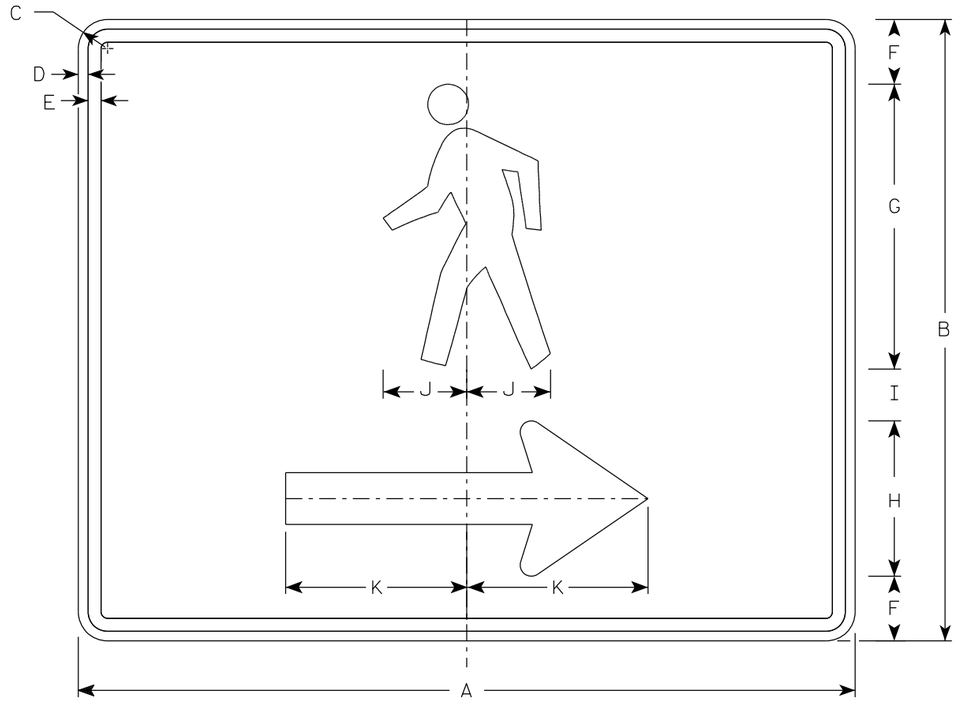
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

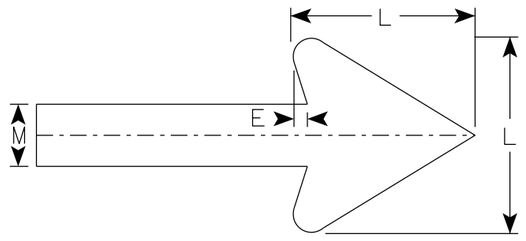
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 661	E



M4-60R

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-60L is the same as M4-60R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	2 1/2	11	6	2	3 1/4	7	6	2														5.00
3																											
4																											
5																											

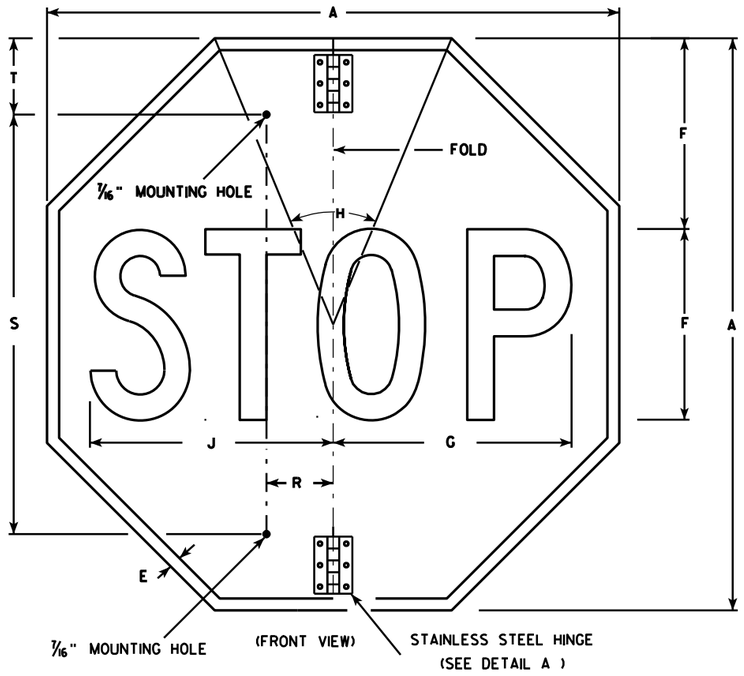
STANDARD SIGN
M4-60 L&R

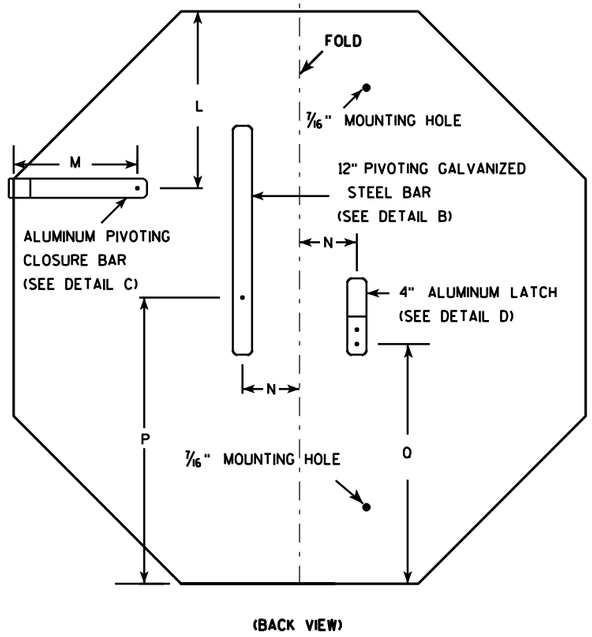
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/16/2021 PLATE NO. M4-60.1

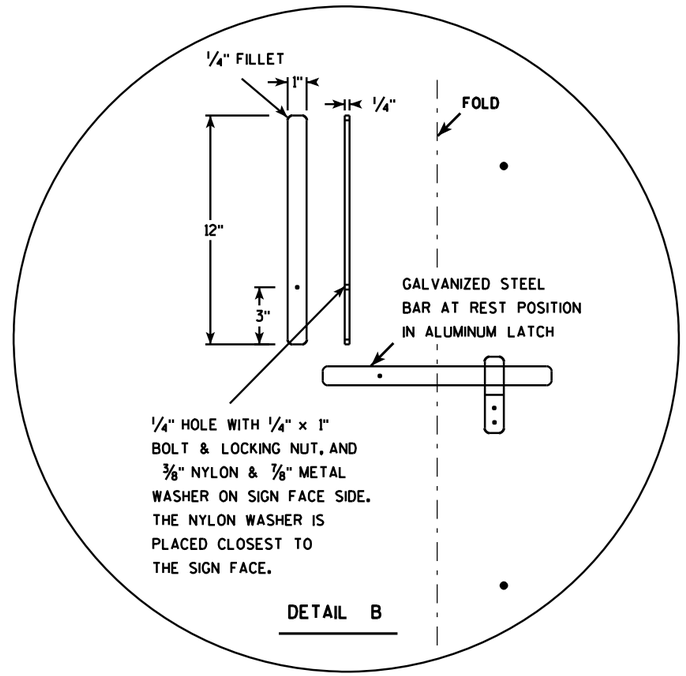
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 662 | E



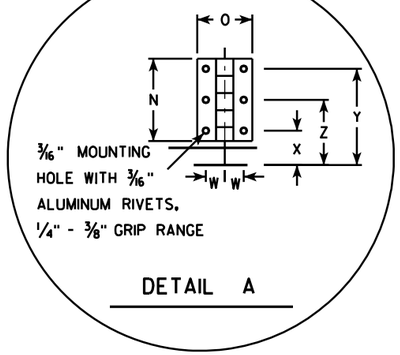


NOTES

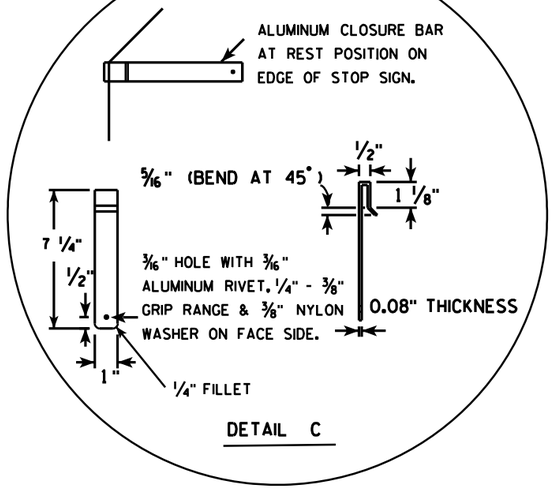
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



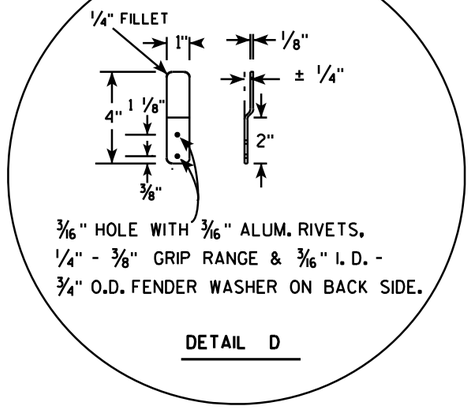
DETAIL B



DETAIL A



DETAIL C



DETAIL D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

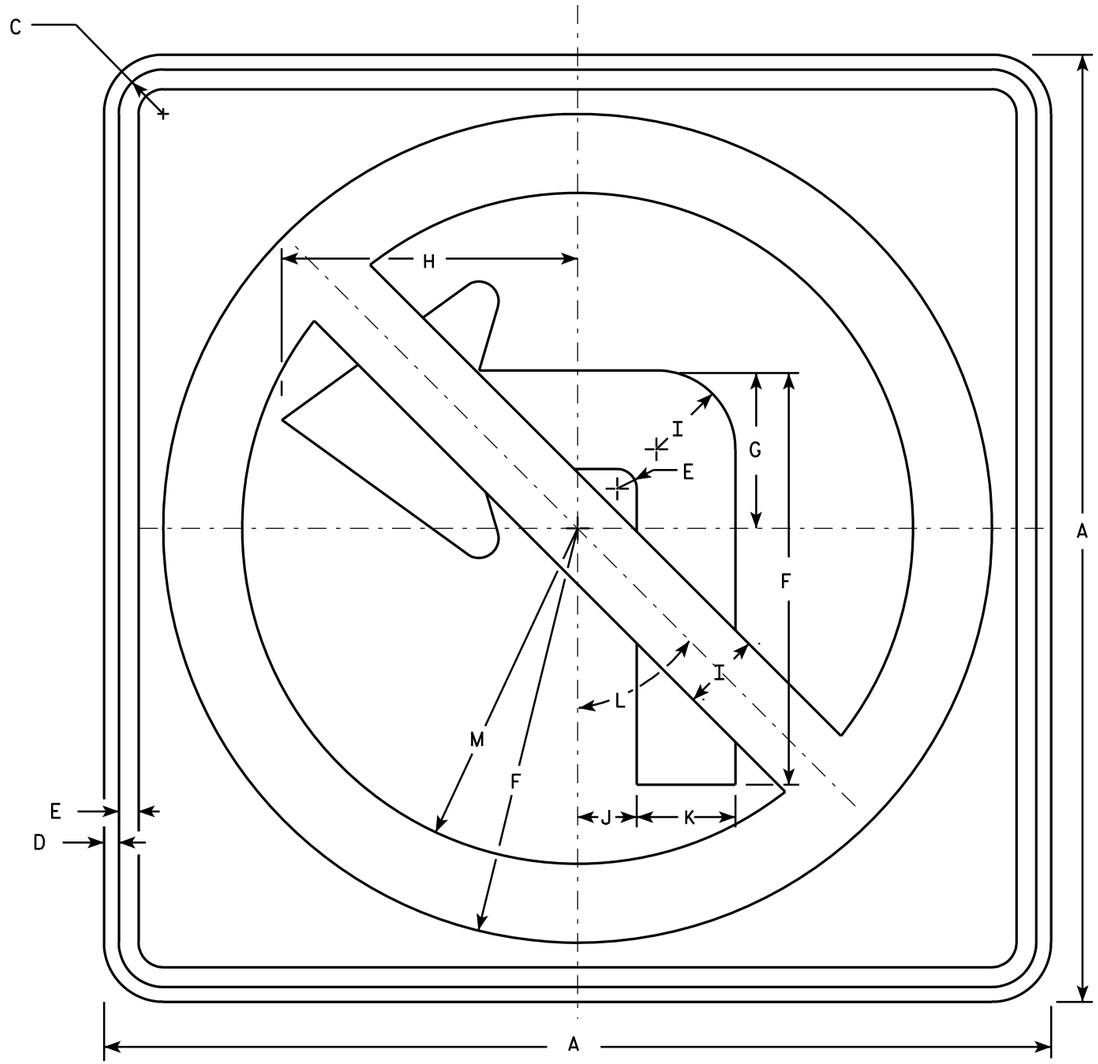
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 663 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R11F.DGN PLOT DATE : 02-DEC-2010 15:26 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

WISDOT/CADDS SHEET 42

7

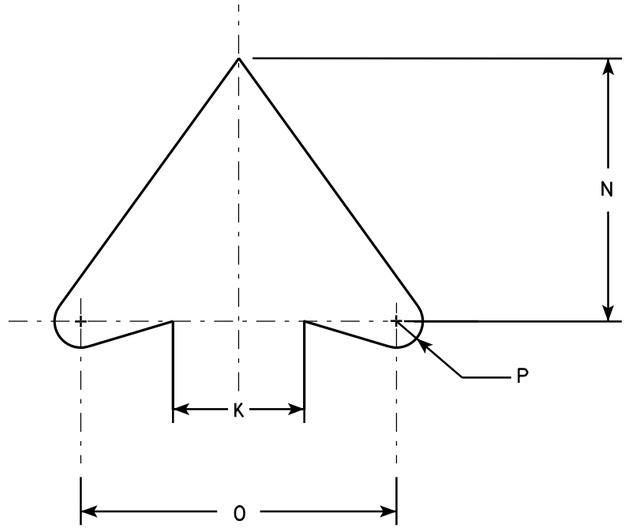
7



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

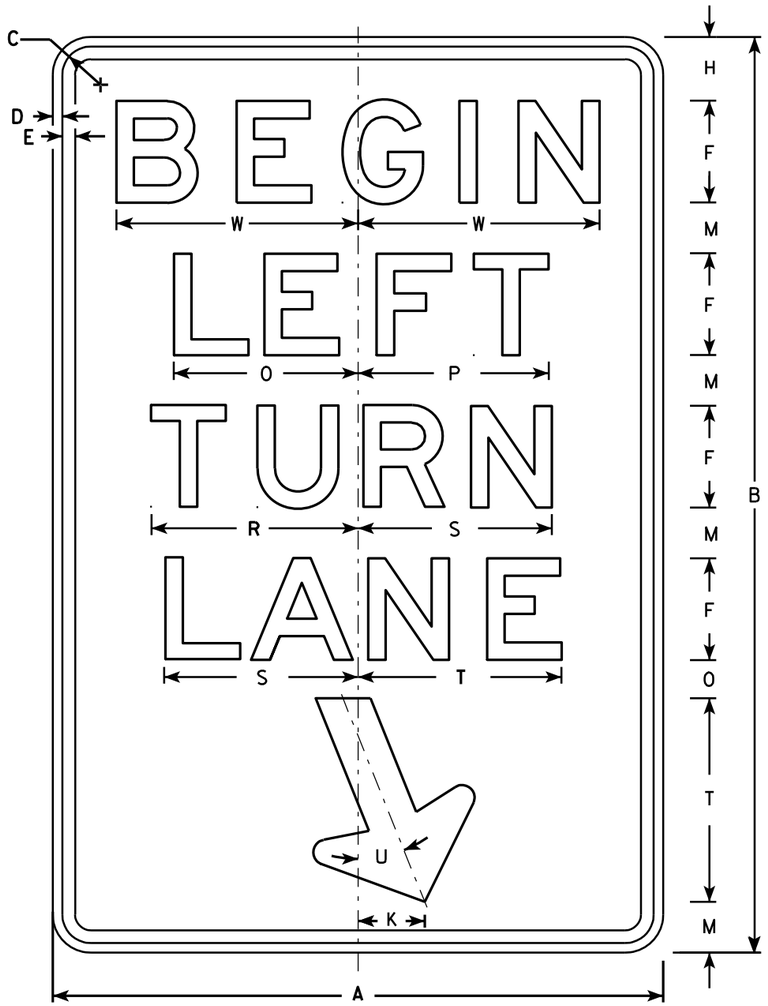
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

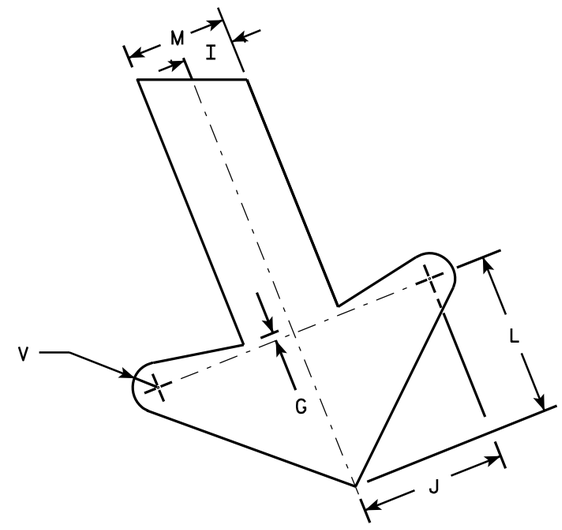
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 664	E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

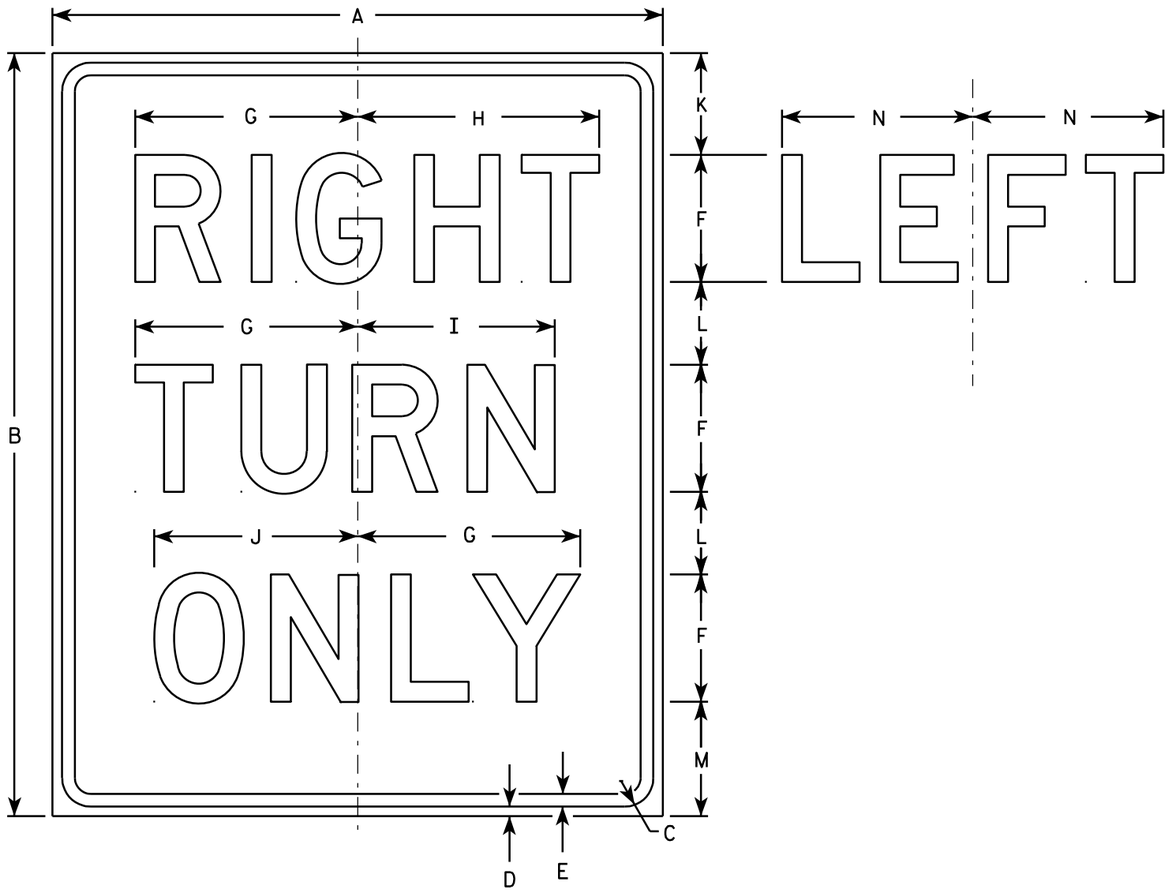
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 665 | E



R3-53R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R3-53L same as R3-53R except LEFT is substituted for RIGHT.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
2M	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
3	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
4																											
5																											

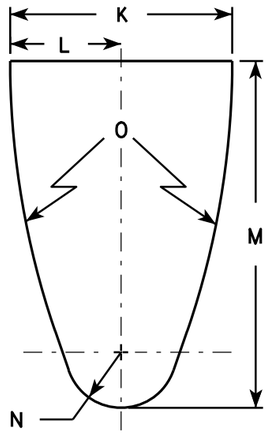
STANDARD SIGN
R3-53

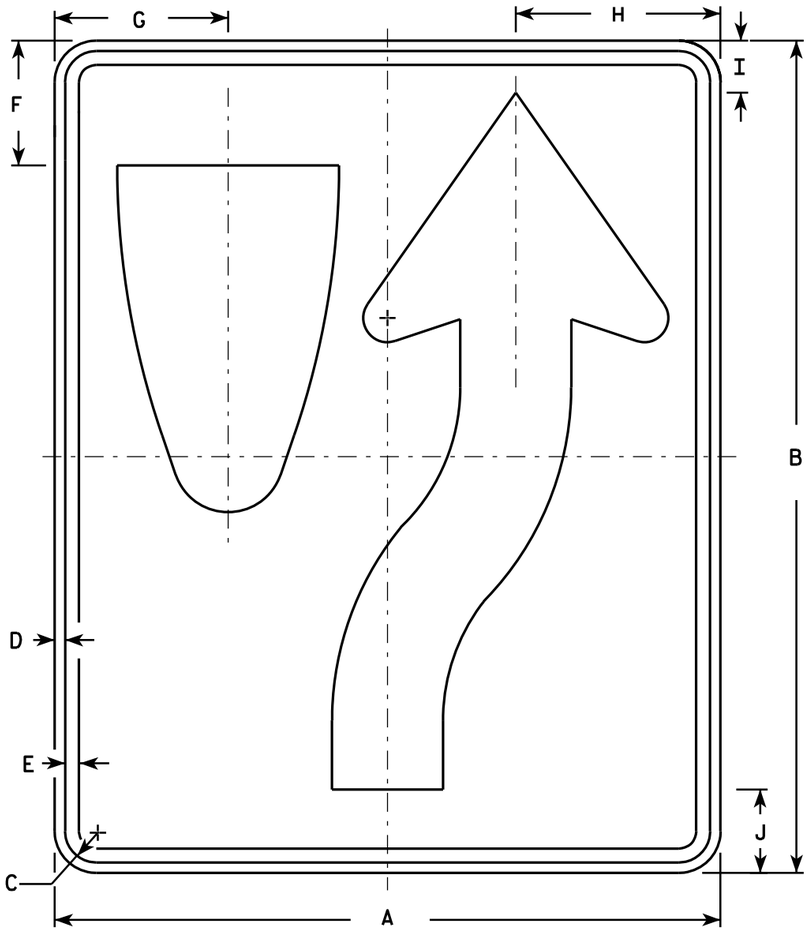
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-53.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 666	E

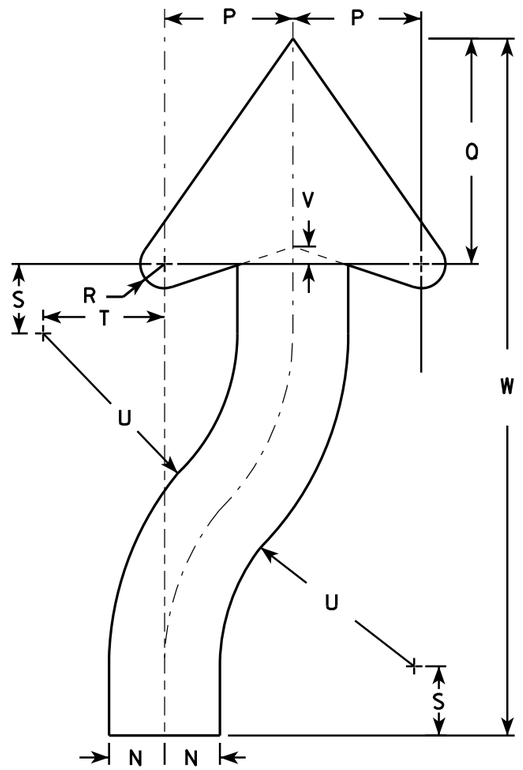




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

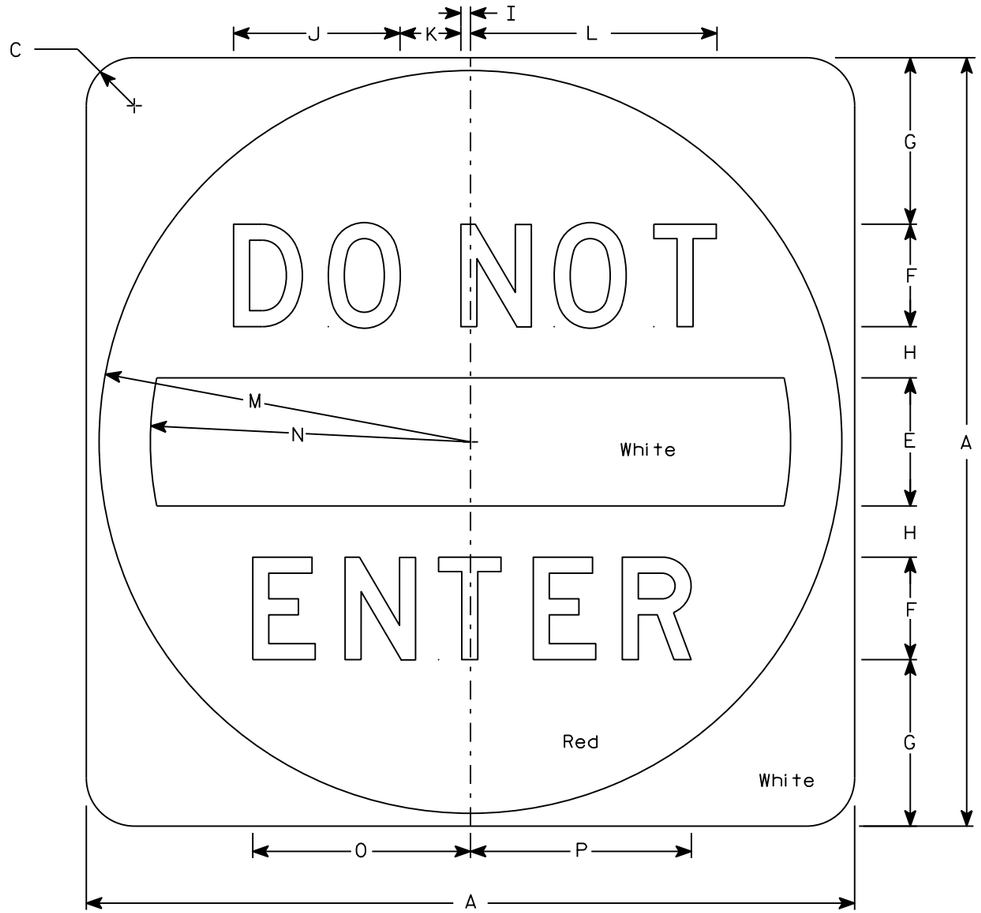
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 667	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

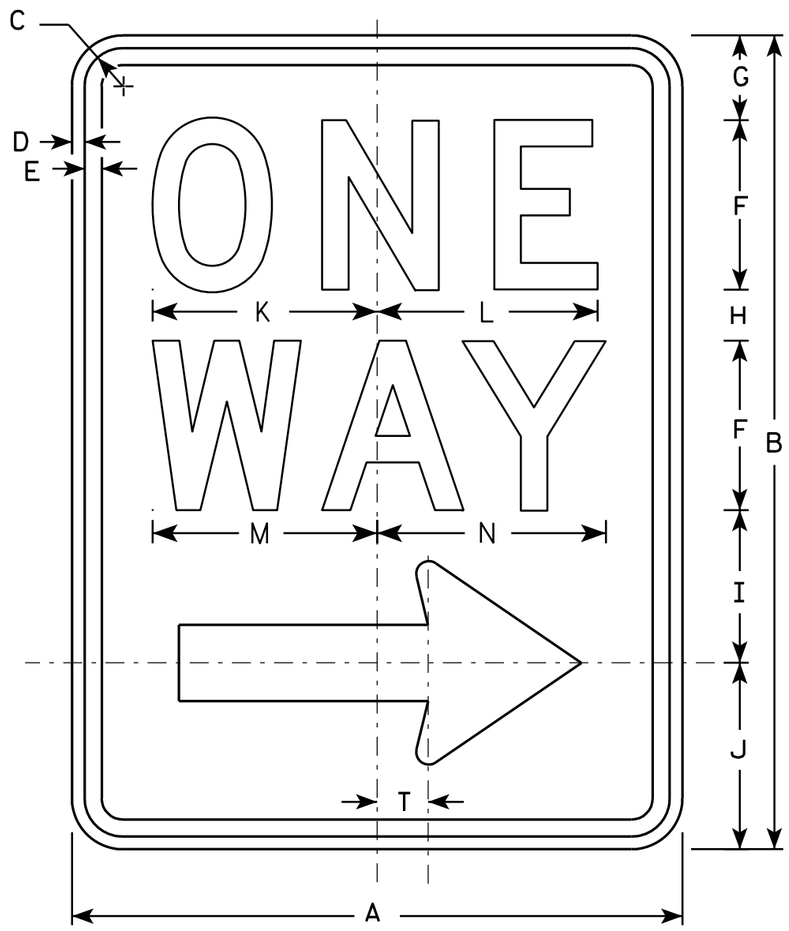
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

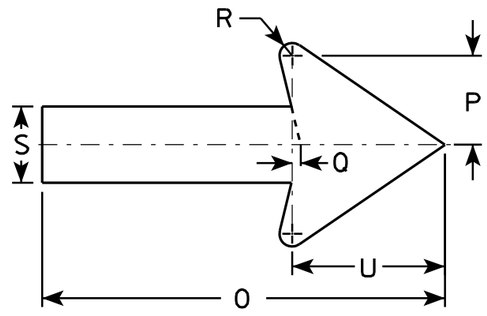
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 668 | E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

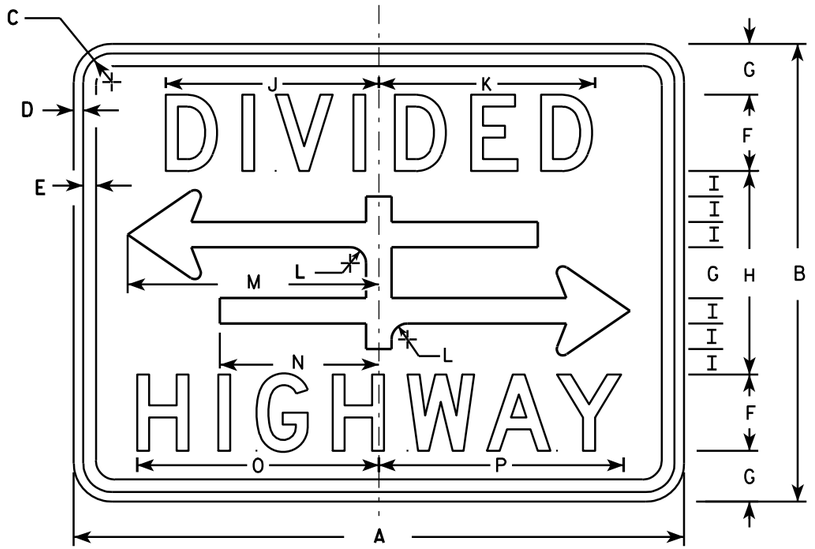
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

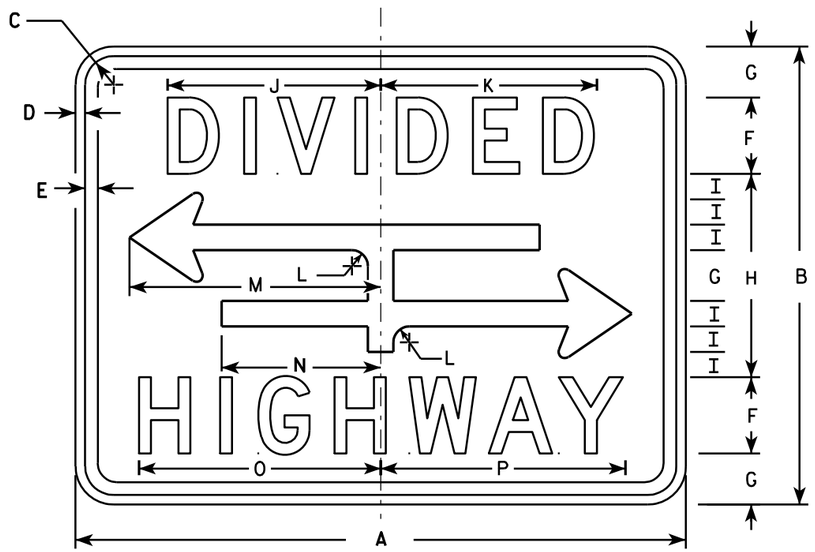
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 669	E



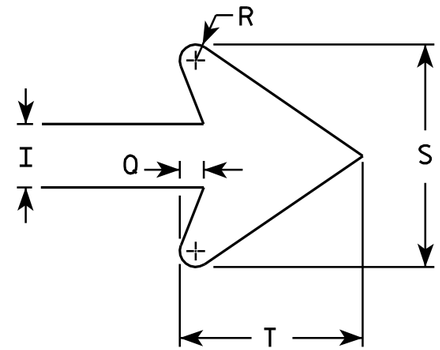
R6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-3A



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

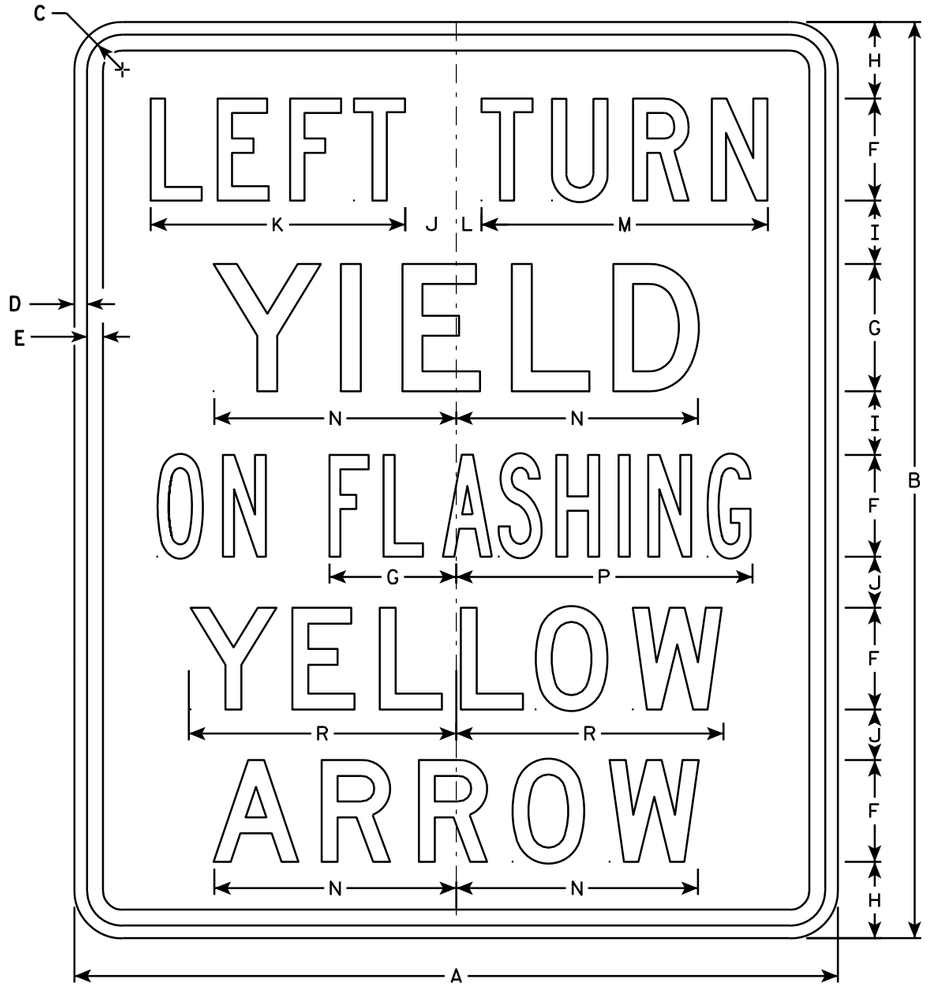
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

SHEET NO: 670 E

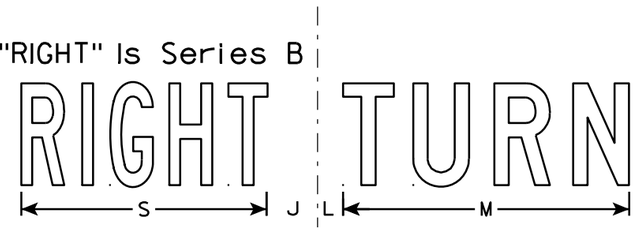


R10-50L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series C.
   Lines 2, 4 and 5 are Series D.
   Line 3 is Series B.

"RIGHT" Is Series B



R10-50R

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
2M	30	36	1 3/8	1/2	5/8	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
3																											
4																											
5																											

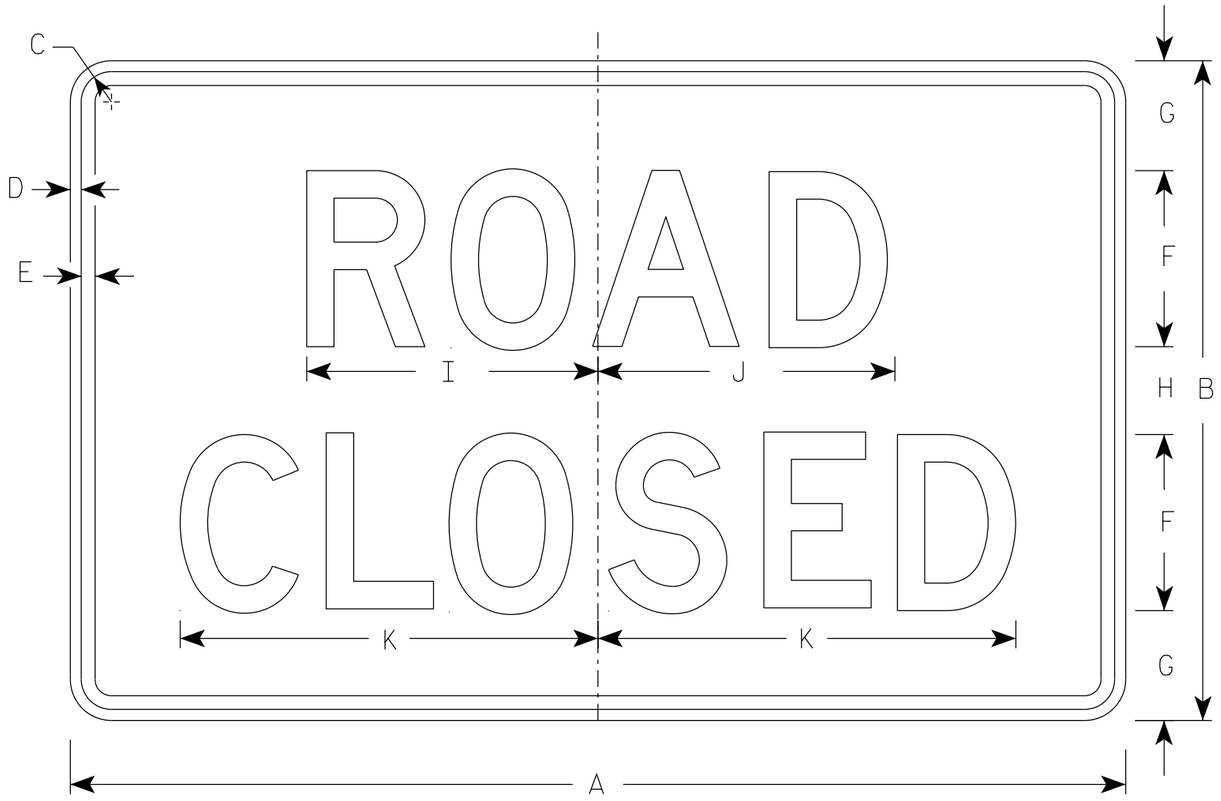
STANDARD SIGN
R10-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/11/13 PLATE NO. R10-50.2

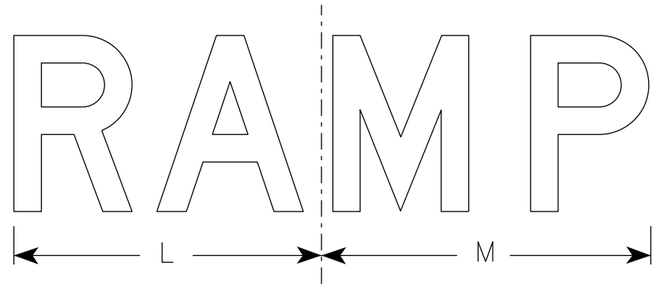
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 671	E



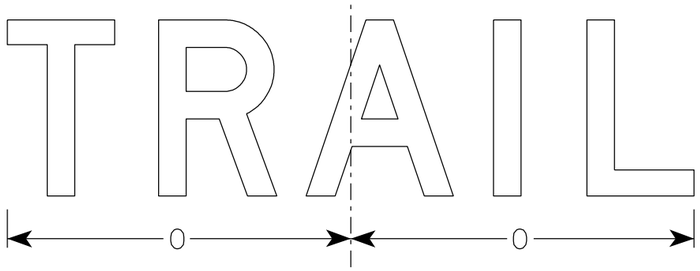
R11-2

NOTES

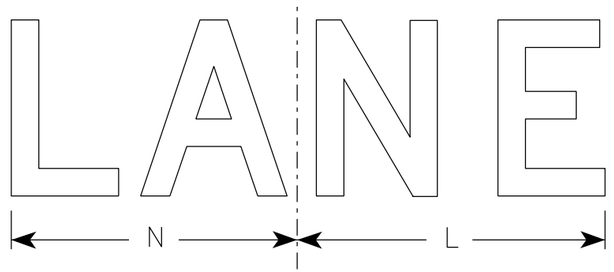
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

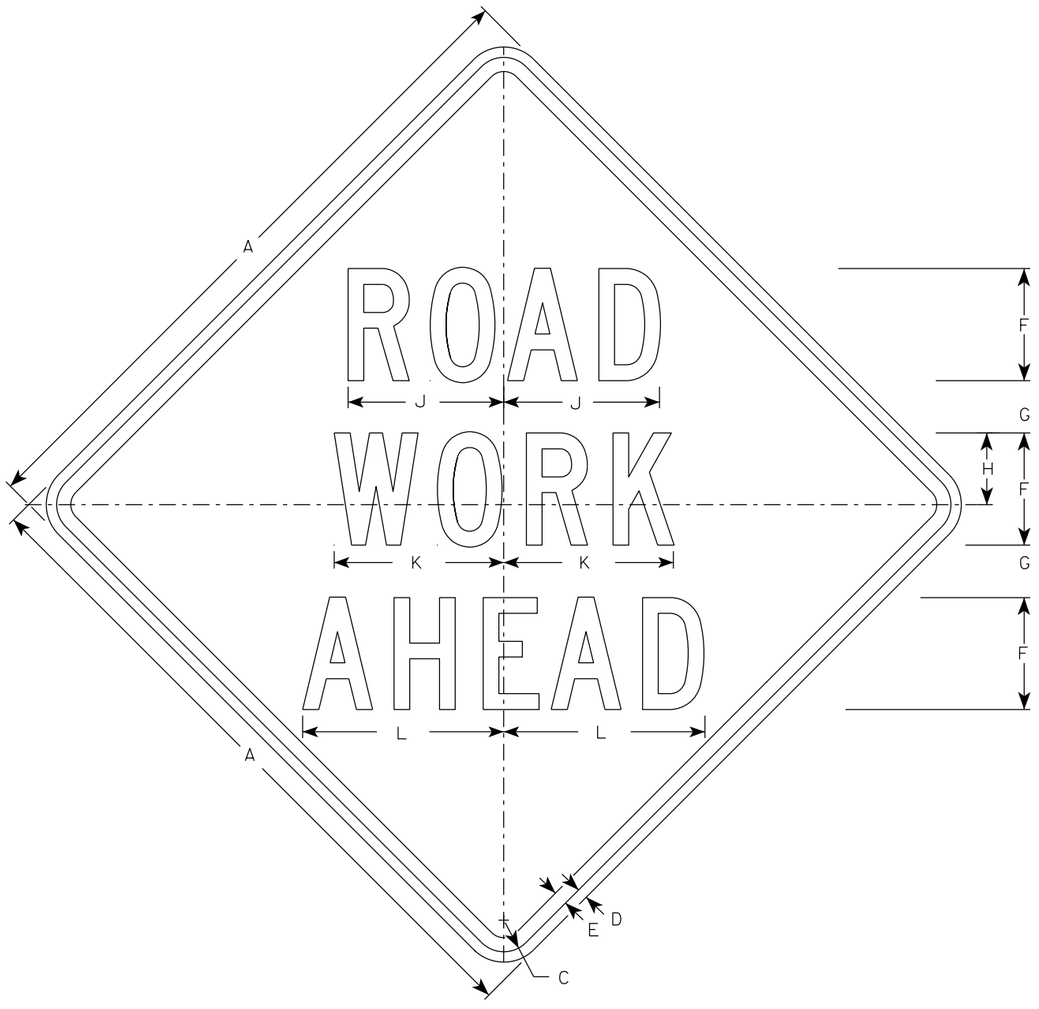
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

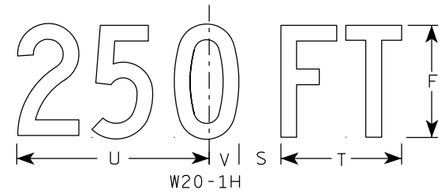
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

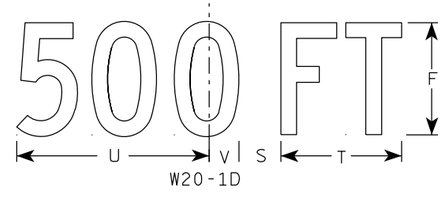
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 672	E



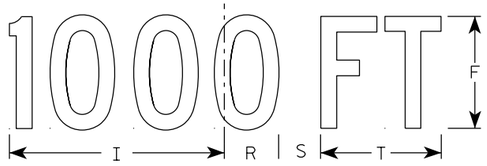
W20-1A



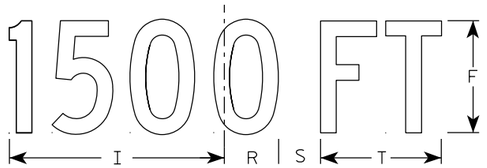
W20-1H



W20-1D



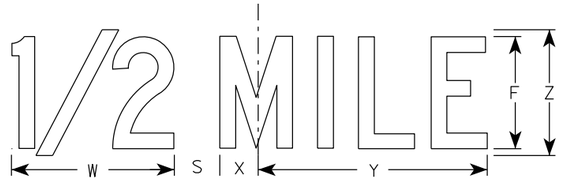
W20-1C



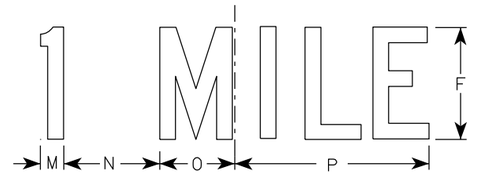
W20-1B

NOTES

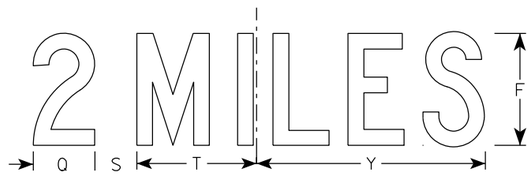
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

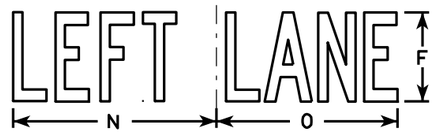
WISDOT/CADDS SHEET 42

7

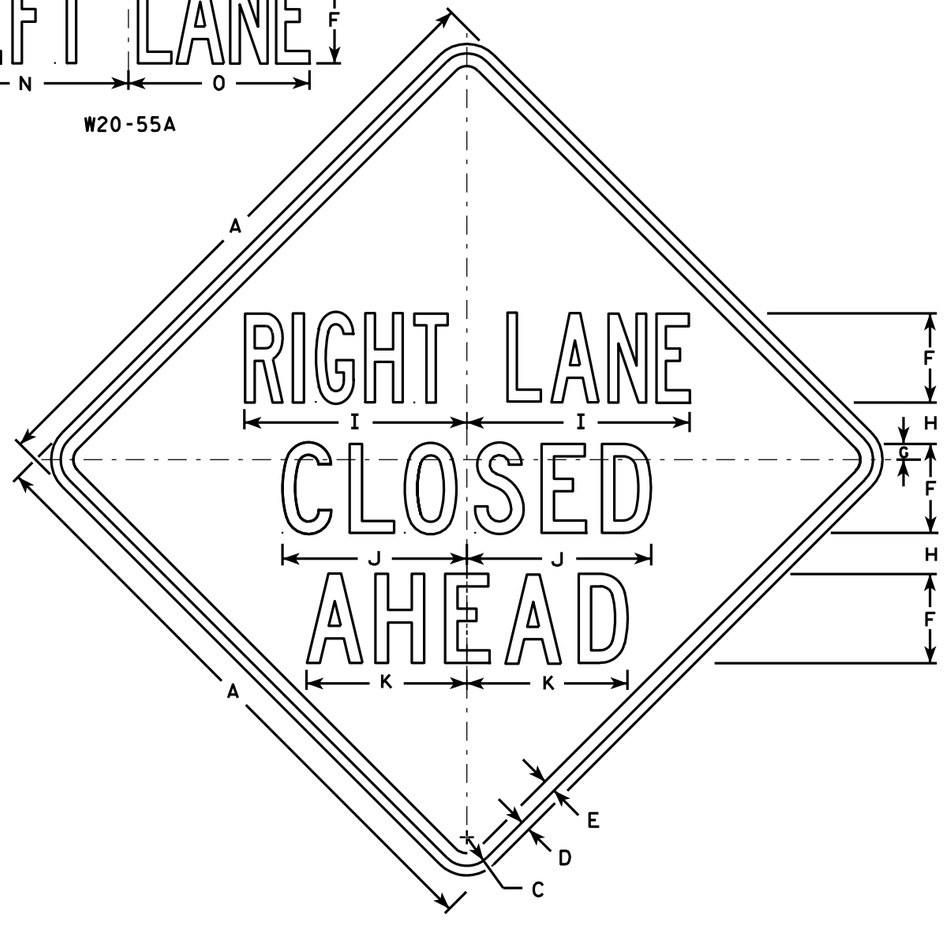
7



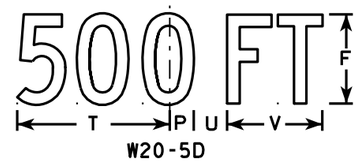
W20-56A



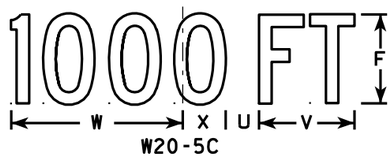
W20-55A



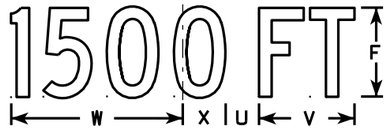
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

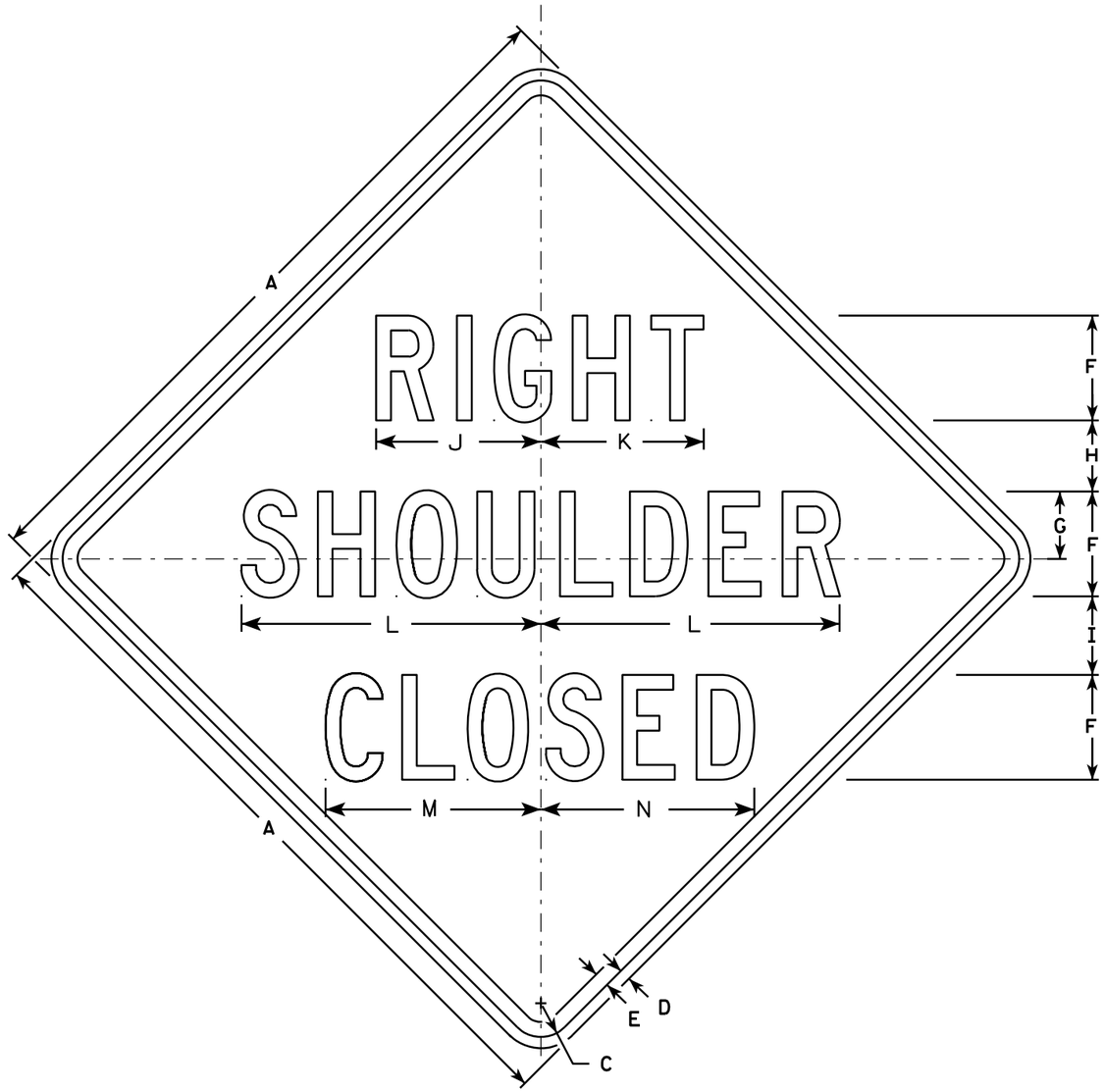
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

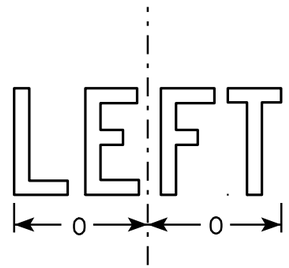
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 674 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W21-5A



W21-5AL

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	4	7 7/8	7 3/4	14 1/4	10 1/4	10 1/8	6 1/4												9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0

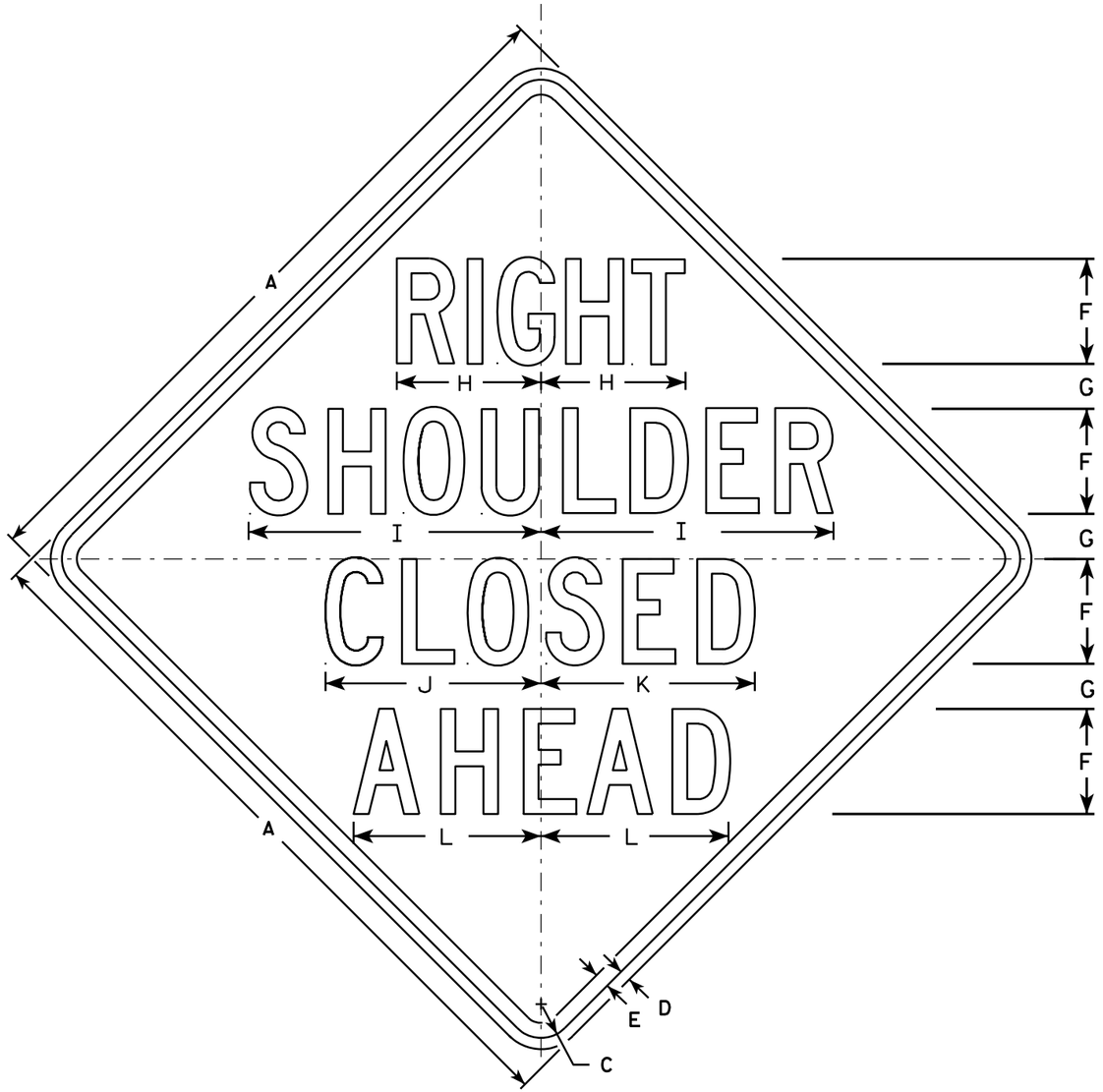
STANDARD SIGN
W21-5A

WISCONSIN DEPT OF TRANSPORTATION

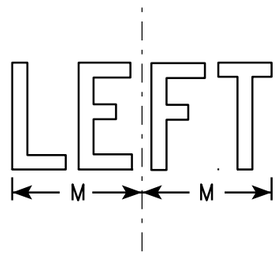
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5A.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 675 | E



W21-5B



W21-5BL

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 1/4	7 3/8	14 1/4	10 1/4	10 1/8	8 7/8	6 1/4														9.0
2S	48		2 1/4	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0
2M	48		2 1/4	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0
3	48		2 1/4	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0
4	48		2 1/4	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0
5	48		2 1/4	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0

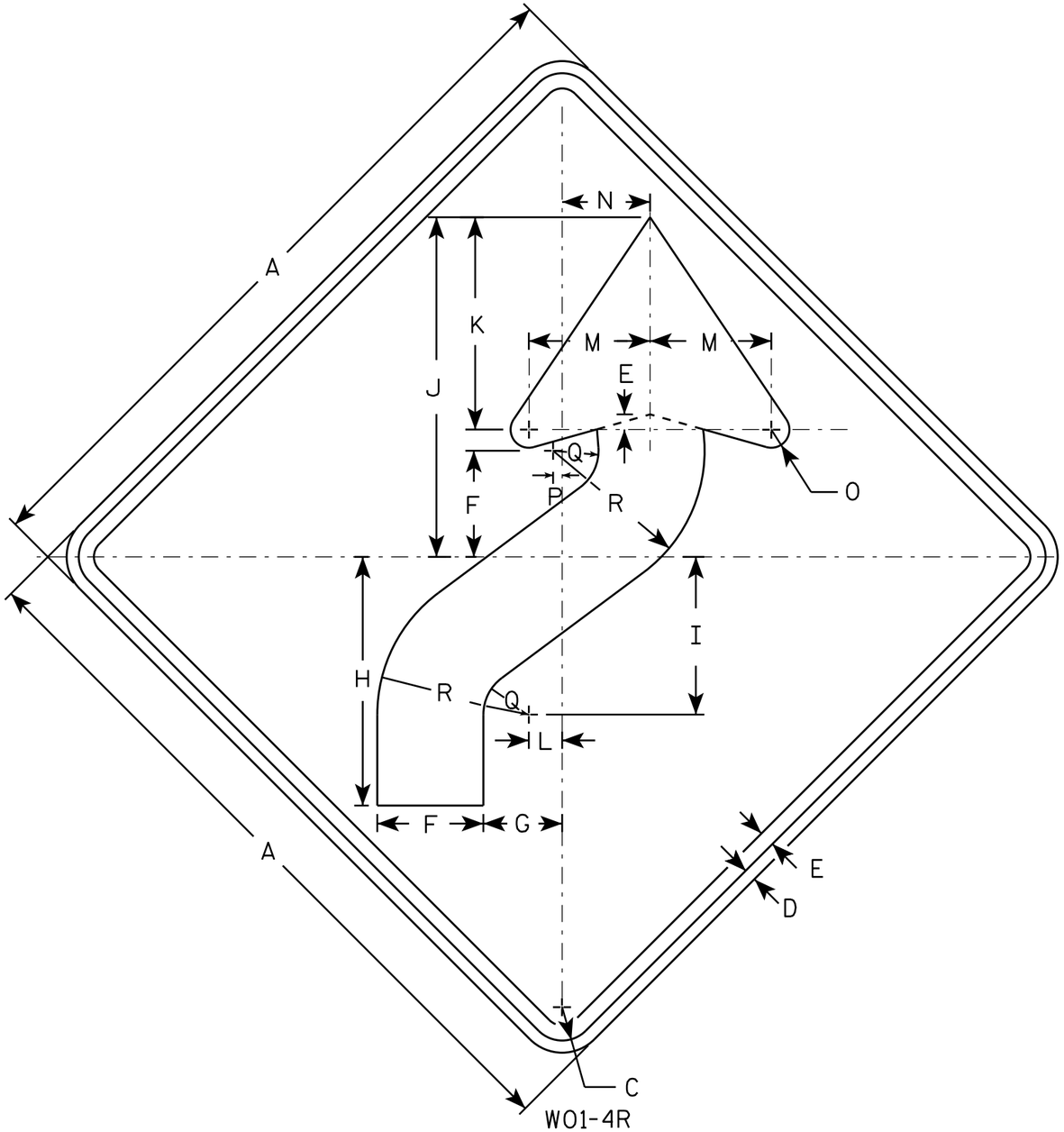
STANDARD SIGN
W21-5B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5B.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 676	E



W01-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

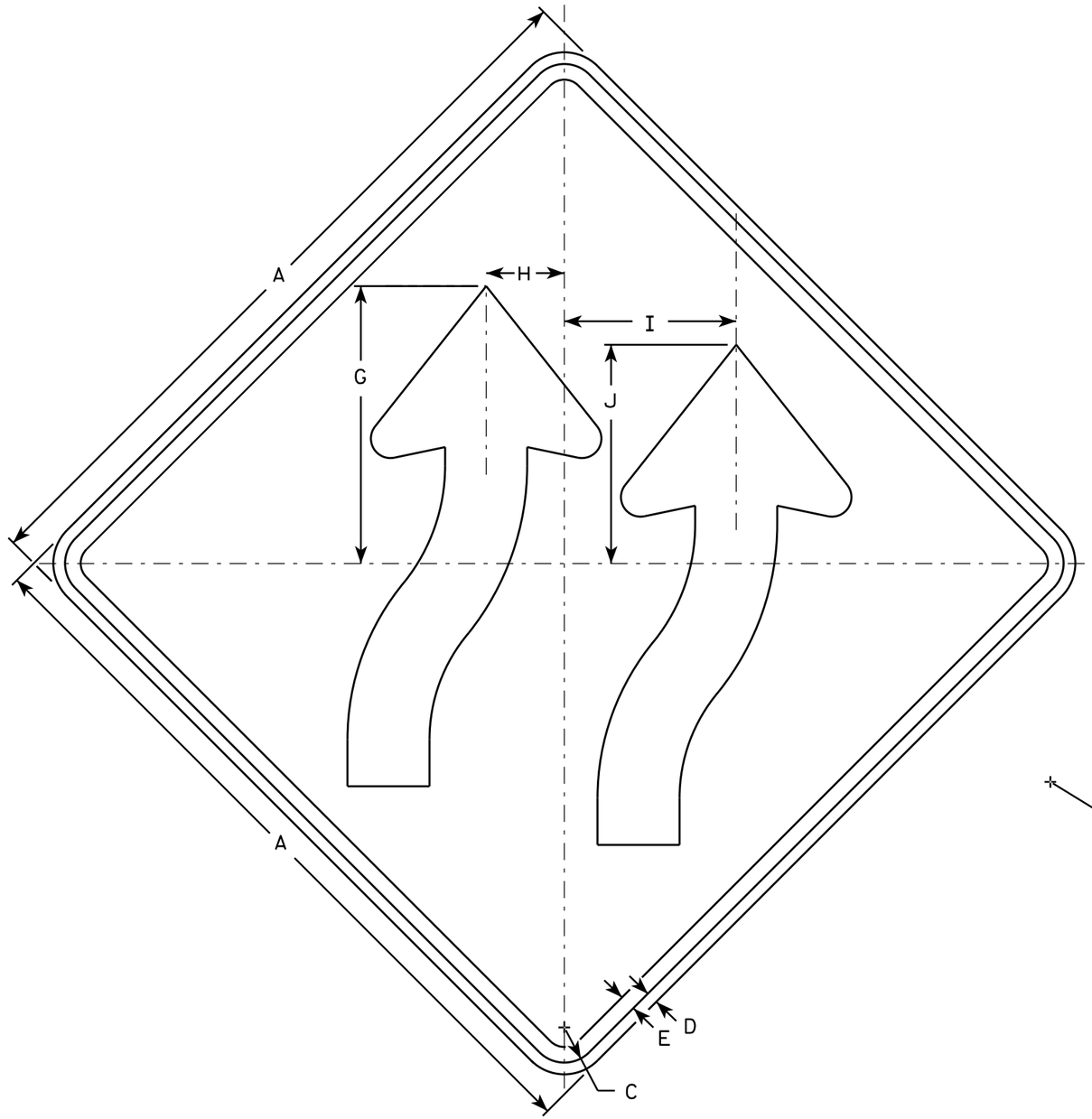
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

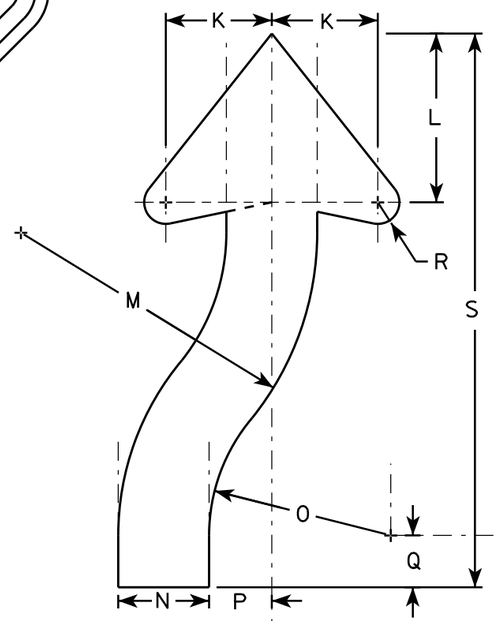
DATE 11/18/13 PLATE NO W01-4.1

677

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W01-4bR



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4bL is the same as W014-bR exept arrows are reversed along the vertical centerline

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		13 3/8	3 3/4	8 1/4	10 1/2	4 5/8	7 3/8	12 7/8	3 7/8	7 7/8	2 3/4	2 1/4	7/8	24								9.0
2S	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
2M	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
3	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
4	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
5	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0

STANDARD SIGN
W01-4b

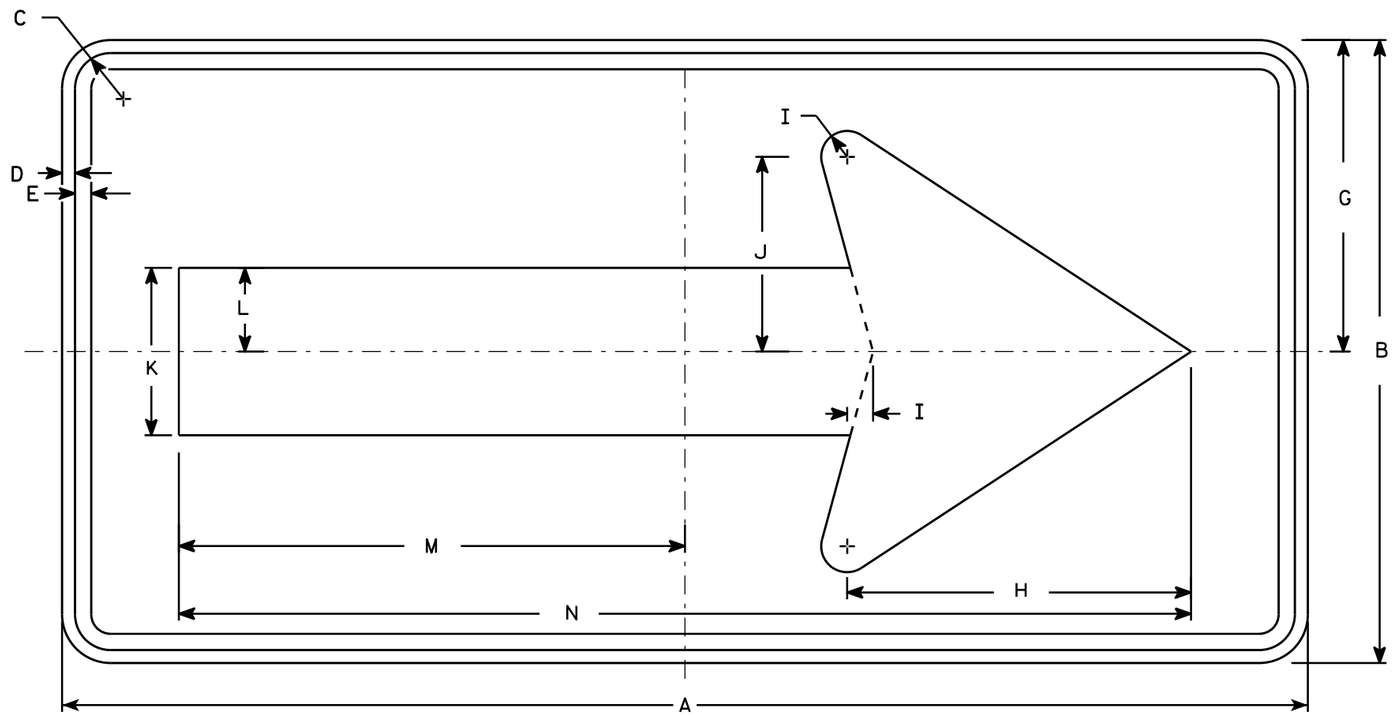
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-4b.1

678

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

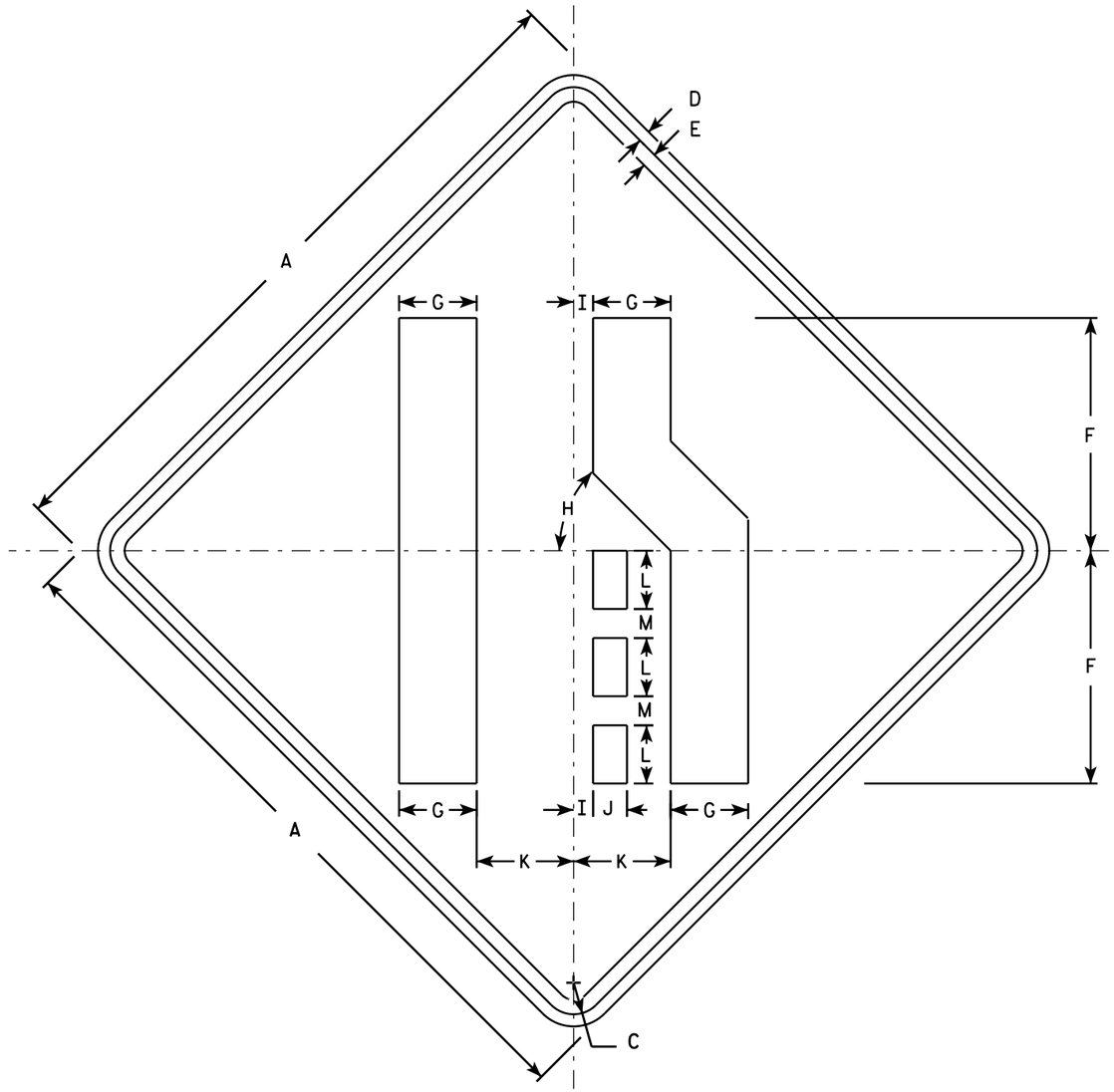
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

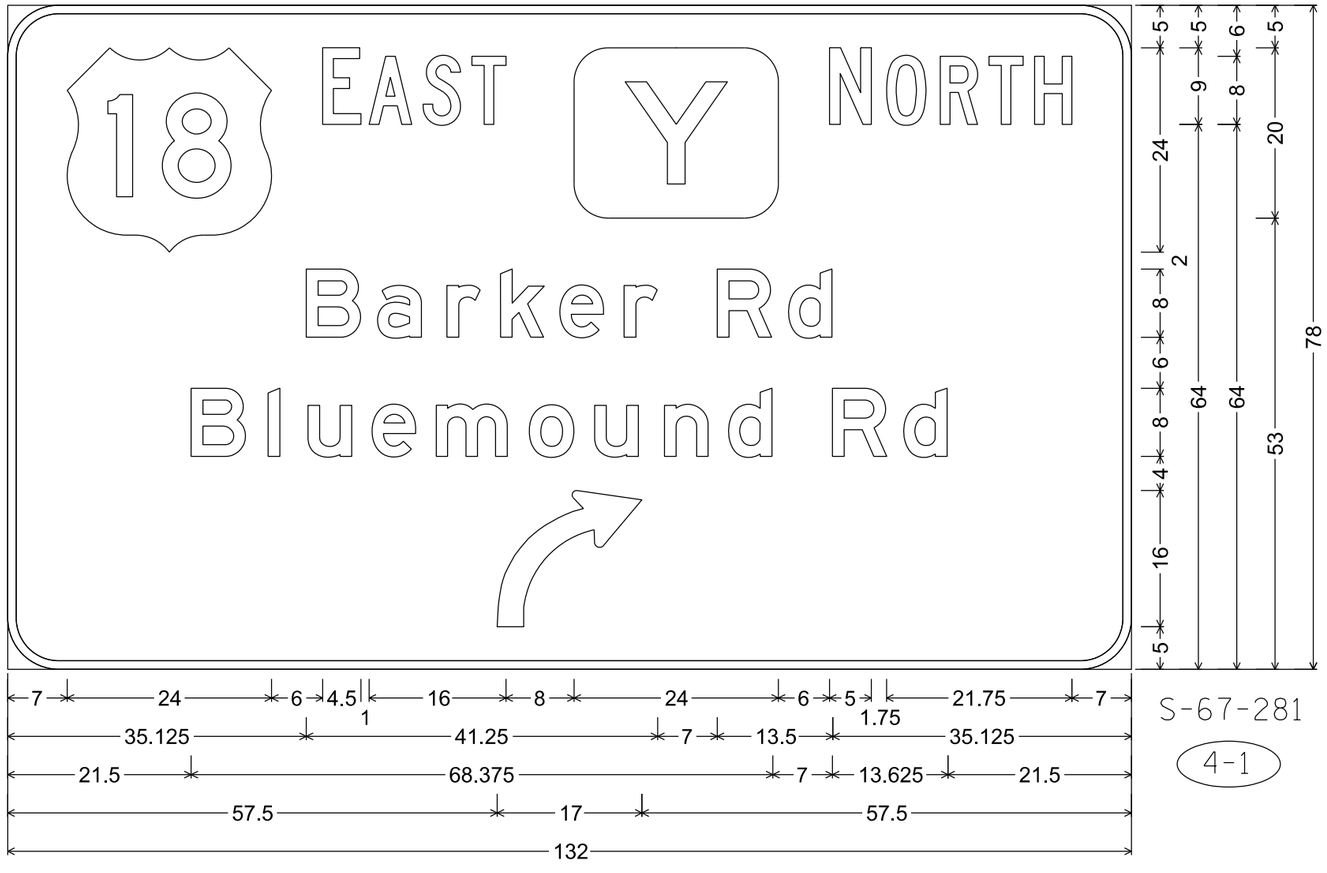
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 680 W04-2.1

PROJECT NO: | SHEET NO: E

NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - As noted



S-67-281

4-1

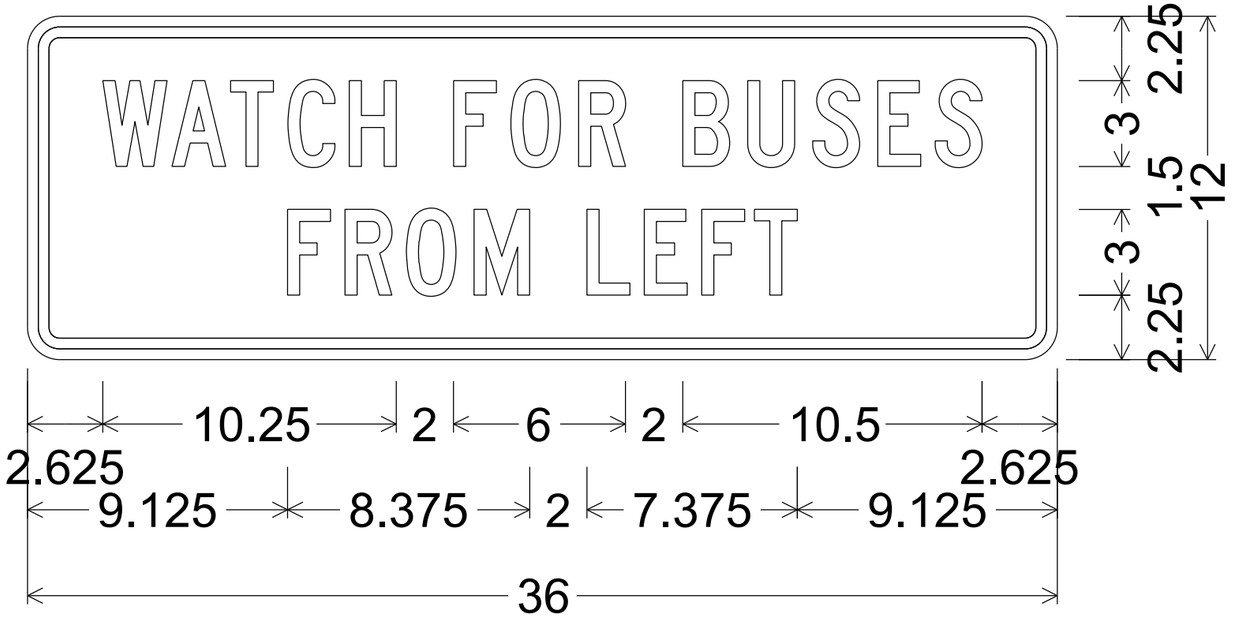
D16-1; 6.000" Radius, 1.000" Border,
"EAST", C; "NORTH", C; "Barker", E; "Rd", E; "Bluemound", E; "Rd", E

7

7

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C



1.125" Radius, 0.375" Border, 0.375" Indent

7

7

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET NO: 682	E

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

FORMWORK SHALL BE REMOVED BEFORE BACKFILLING. THE FOOTING AND PEDESTAL SHALL BE BACKFILLED IN ACCORDANCE WITH SECTION 210 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

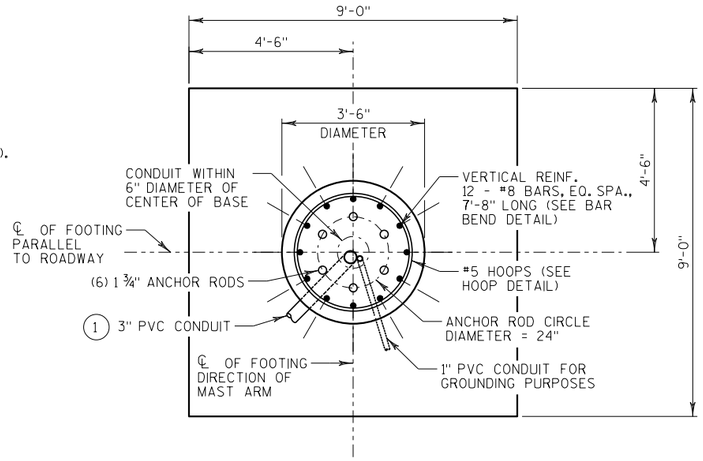
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

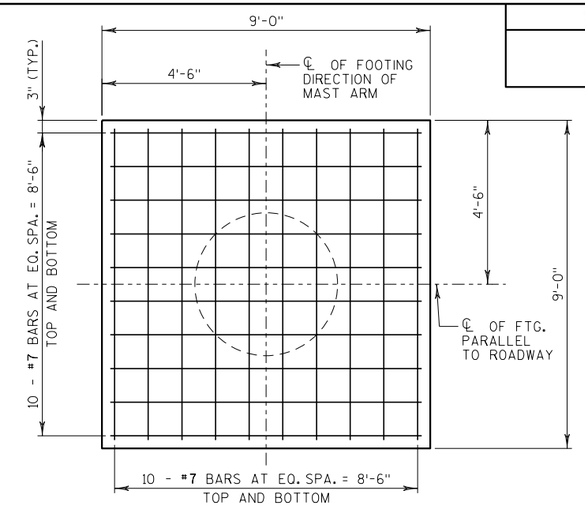
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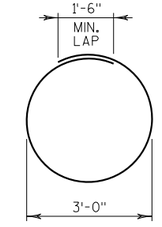
CONCRETE MASONRY ---------- f'c = 3,500 P.S.I
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 ---------- fy = 60,000 P.S.I.
ANCHOR RODS, ASTM F1554, GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATION) ---------- fy = 55,000 P.S.I.
TEMPLATES, ASTM A709, GRADE 36 ---------- fy = 36,000 P.S.I.
NET ALLOWABLE BEARING PRESSURE ---------- 4,000 P.S.F.



PLAN VIEW

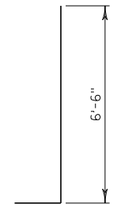


PLAN VIEW - FOOTING REINF.



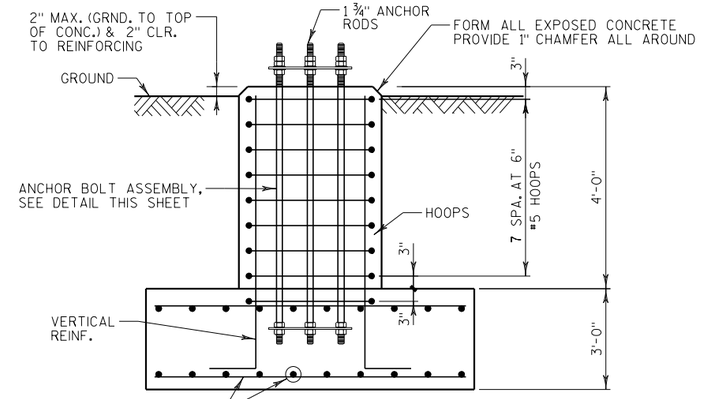
9 - #5 HOOPS
11'-0" LONG

HOOP DETAIL



12 - #8 BARS
7'-8" LONG

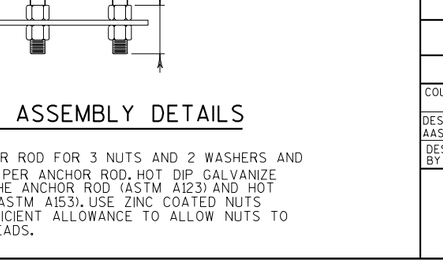
BAR BEND DETAIL



ELEVATION VIEW

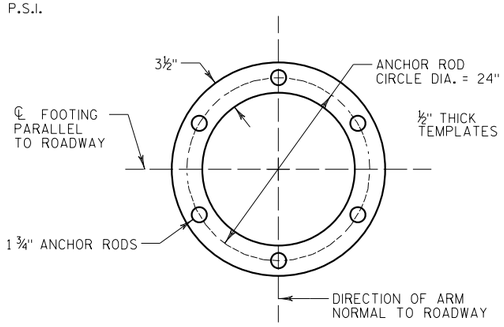
(CONDUITS NOT SHOWN FOR CLARITY)

QUANTITIES
CONCRETE = 10.4 CUBIC YARDS
H.S. REINFORCEMENT = 1,058 LBS.

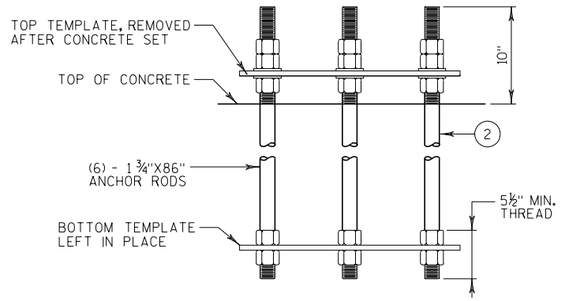


SIDE VIEW

(REINFORCEMENT NOT SHOWN FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

(2) THREAD TOP 11" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153). USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

STATE PROJECT NUMBER

2200-20-70

WISCONSIN
SCOTT J. GINAL
E-38680
CEDARBURG
WI
PROFESSIONAL ENGINEER
12/22/2022

STRUCTURE DESIGN CONTACTS:
AARON BONK (WISDOT) (608) 261-0261
SCOTT GINAL (RA SMITH) (262) 317-3344

NO.	DATE	REVISION	BY

raSmith
CREATIVITY BEYOND ENGINEERING
16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rasmith.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 02/21/23
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE S-67-1489-001

US 18 (BLUEMOUND RD) & UNDERWOOD CROSSING PKWY

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
WAUKESHA	BROOKFIELD

DESIGN SPEC.
AASHTO LRFDLTS-1 WITH INTERIMS

DESIGNED BY	PFP	DESIGN CK'D.	SJG	DRAWN BY	PFP	PLANS CK'D.	SJG

GENERAL NOTES & FOUNDATION DETAILS

SHEET 1 OF 1
683

8

8

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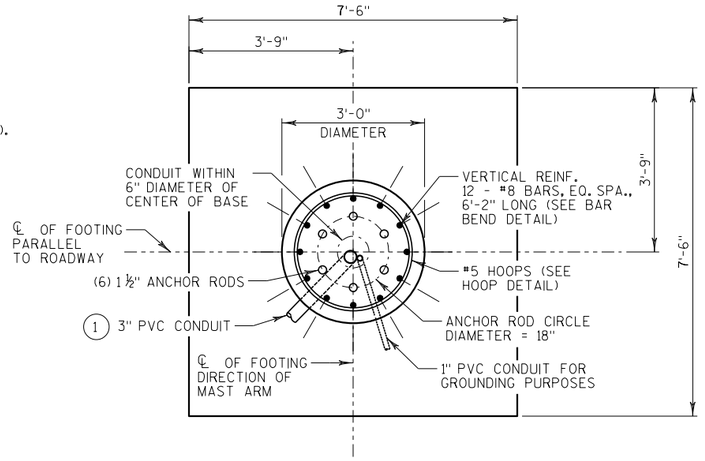
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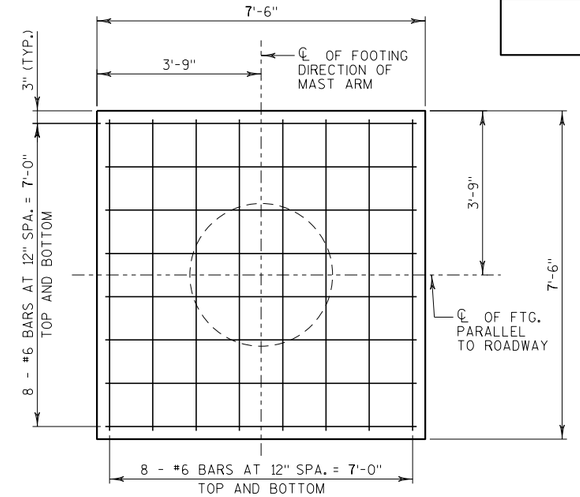
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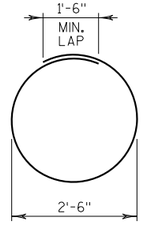
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PLAN VIEW

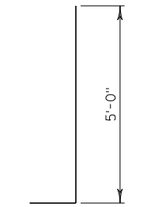


PLAN VIEW - FOOTING REINF.



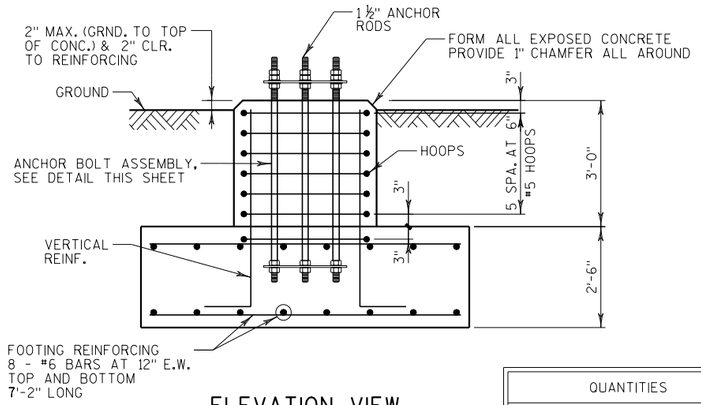
7 - #5 HOOPS
9'-3" LONG

HOOP DETAIL



12 - #8 BARS
6'-2" LONG

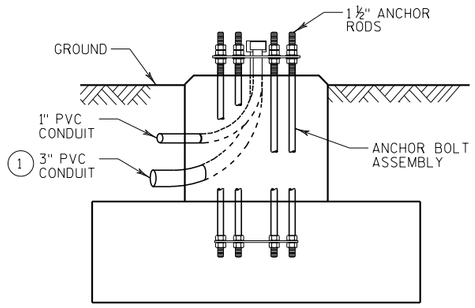
BAR BEND DETAIL



ELEVATION VIEW

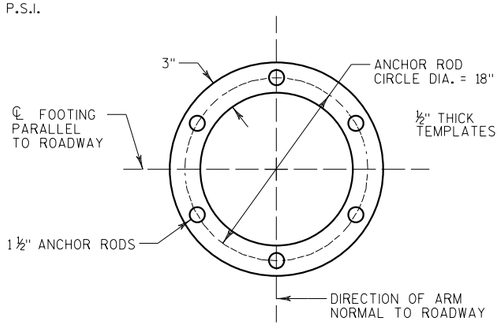
(CONDUITS NOT SHOWN FOR CLARITY)

QUANTITIES
CONCRETE = 6.0 CUBIC YARDS
H.S. REINFORCEMENT = 610 LBS.

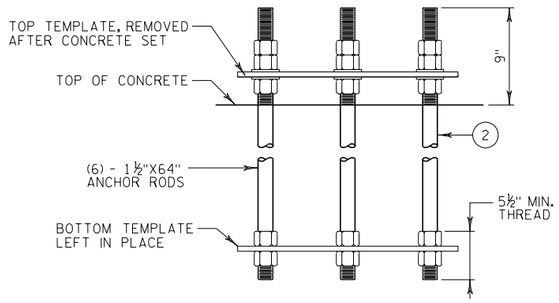


SIDE VIEW

(REINFORCEMENT NOT SHOWN FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

(2) THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153). USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.



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SCOTT GINAL (RA SMITH) (262) 317-3344

NO.	DATE	REVISION	BY

raSmith
CREATIVITY BEYOND ENGINEERING
16745 W. Bluemound Road
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(262) 781-1000
rasmith.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 02/21/23
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE S-67-1489-002

US 18 (BLUEMOUND RD) & UNDERWOOD CROSSING PKWY

COUNTY	~~TOWN/CITY~~/VILLAGE
WAUKESHA	ELM GROVE

DESIGN SPEC.
AASHTO LRFDLTS-1 WITH INTERIMS

DESIGNED BY	PFP	DESIGN CK'D.	SJG	DRAWN BY	PFP	PLANS CK'D.	SJG

GENERAL NOTES & FOUNDATION DETAILS

SHEET 1 OF 1
684

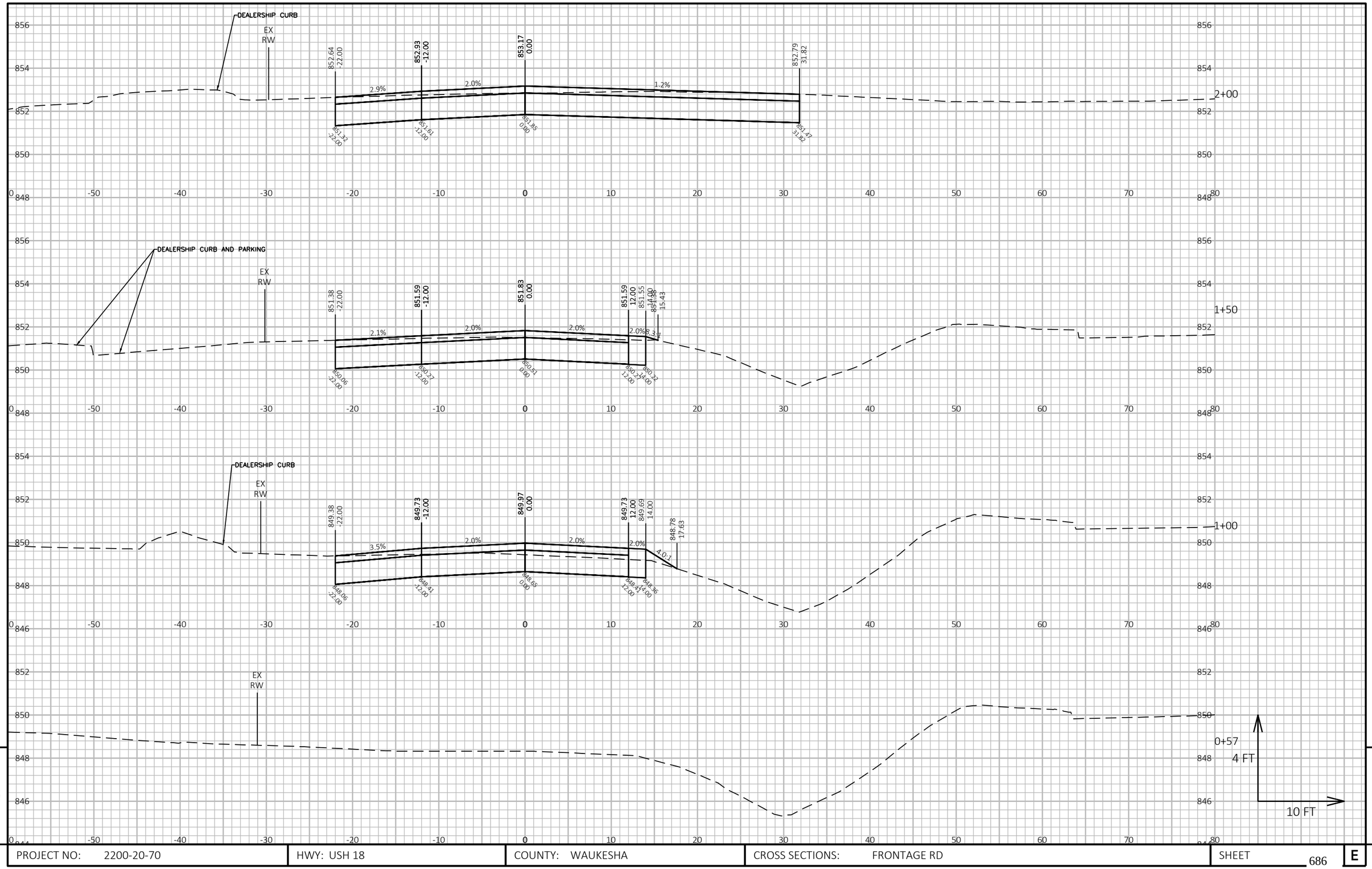
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Frontage Road											
			AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)	
STATION	Real Station	DISTANCE	CUT	FILL	EBS	CUT NOTE 1	FILL NOTE 3	EBS NOTE 4	CUT 1.00 NOTE 1	EXPANDED FILL 1.11
+56.00	56		0	0	0	0	0	0	0	0
1+00.00	100	44	0	2	0	0	2	0	0	2
1+50.00	150	50	0	1	0	0	2	0	0	4
2+00.00	200	50	0	0	0	0	1	0	0	4
2+50.00	250	50	1	3	0	1	2	0	1	7
3+00.00	300	50	9	6	0	9	8	0	9	16
3+50.00	350	50	7	5	0	14	10	1	24	26
4+00.00	400	50	4	5	0	11	9	1	35	36
4+50.00	450	50	4	2	0	7	6	0	42	43
5+00.00	500	50	4	6	0	7	7	0	49	51
5+50.00	550	50	4	4	0	7	10	0	56	62
6+00.00	600	50	4	2	0	7	5	0	63	68
6+50.00	650	50	4	3	0	7	4	0	70	72
7+00.00	700	50	4	3	0	8	6	0	78	79
7+50.00	750	50	5	3	0	8	5	0	86	85
8+00.00	800	50	4	3	0	8	5	0	94	91
8+50.00	850	50	1	2	0	4	4	0	98	96
9+00.00	900	50	2	2	0	3	3	0	101	99
9+50.00	950	50	0	0	0	2	2	0	103	102
10+00.00	1000	50	0	0	0	0	0	0	103	102
10+13.00	1013	13	0	0	0	0	0	0	103	102
				COLUMN TOTALS		**103**	**92**	**5**		

NOTES:

1) CUT: CUT INCLUDES SALAVAGED/UNUSABLE PAVEMENT MATERIAL
2) SALVAGED/UNUSABLE PAVEMENT MATERIAL: THIS IS NOT SHOWN IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE SALVAGED/UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL . EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80

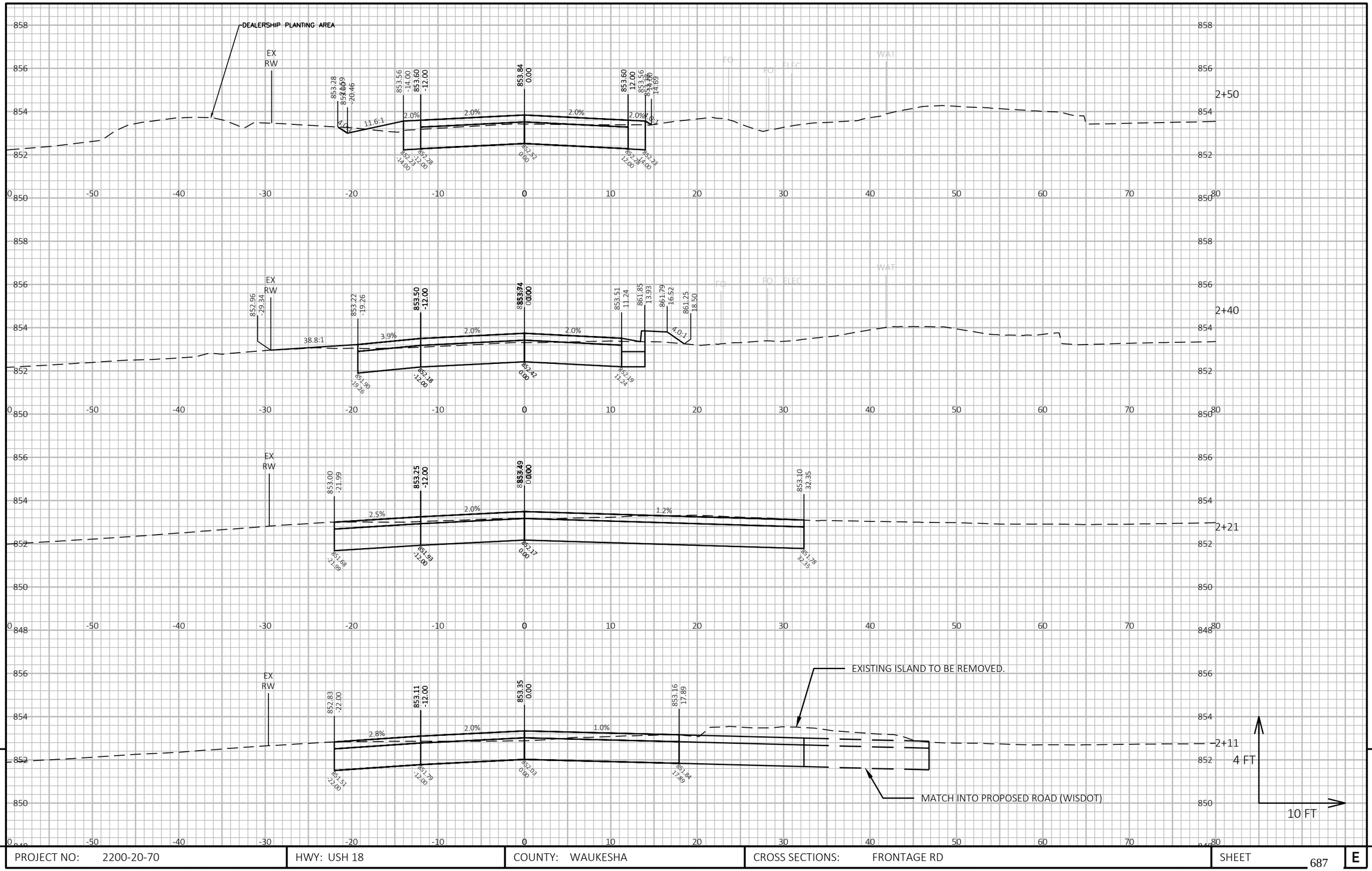


PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS: FRONTAGE RD	SHEET 686 E

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 1/30/2023 4:04 PM PLOT BY : DECENT, ZACH PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

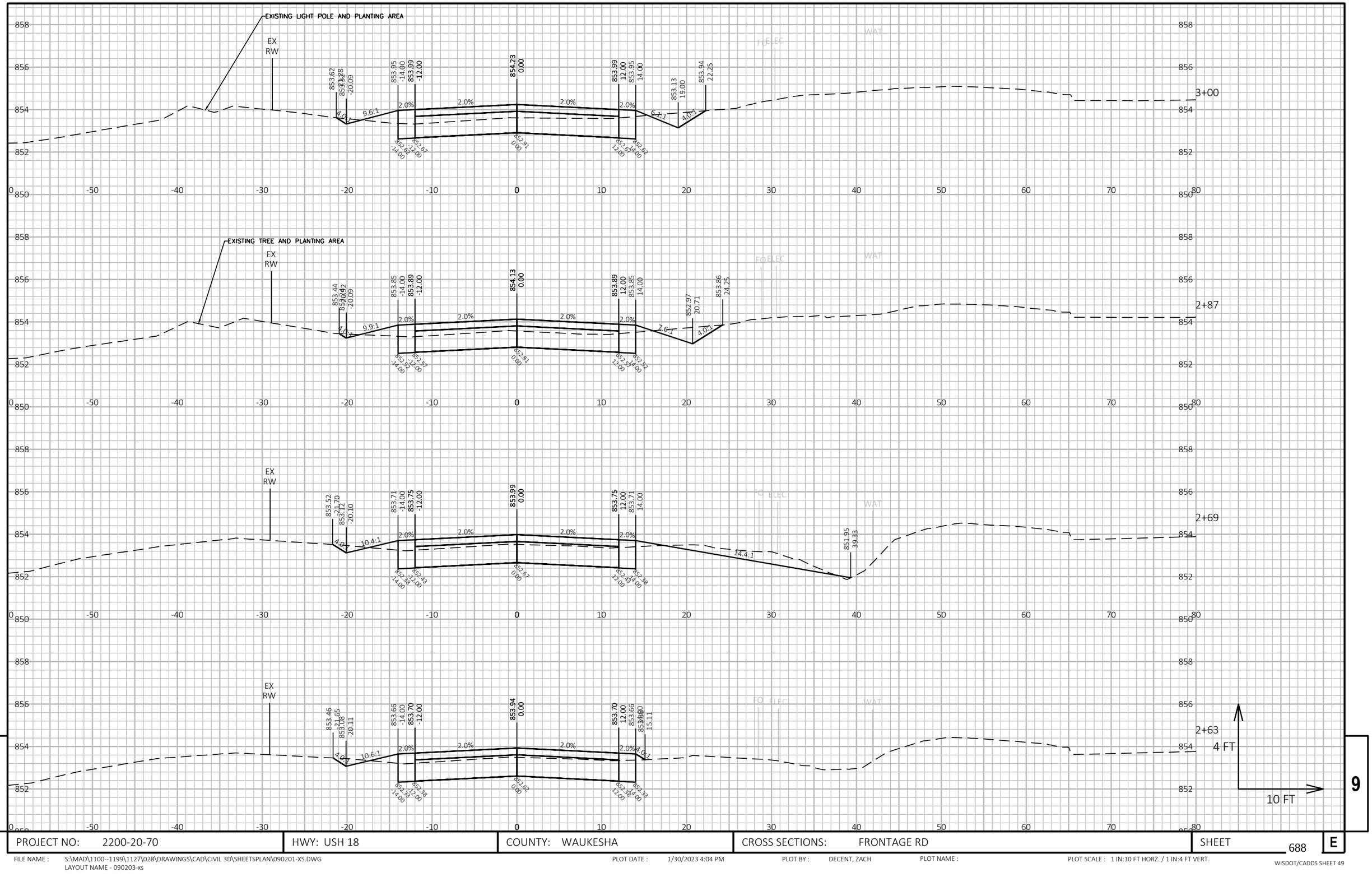


PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS: FRONTAGE RD	SHEET 687	E

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 1/30/2023 4:04 PM PLOT BY : DECENT, ZACH PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

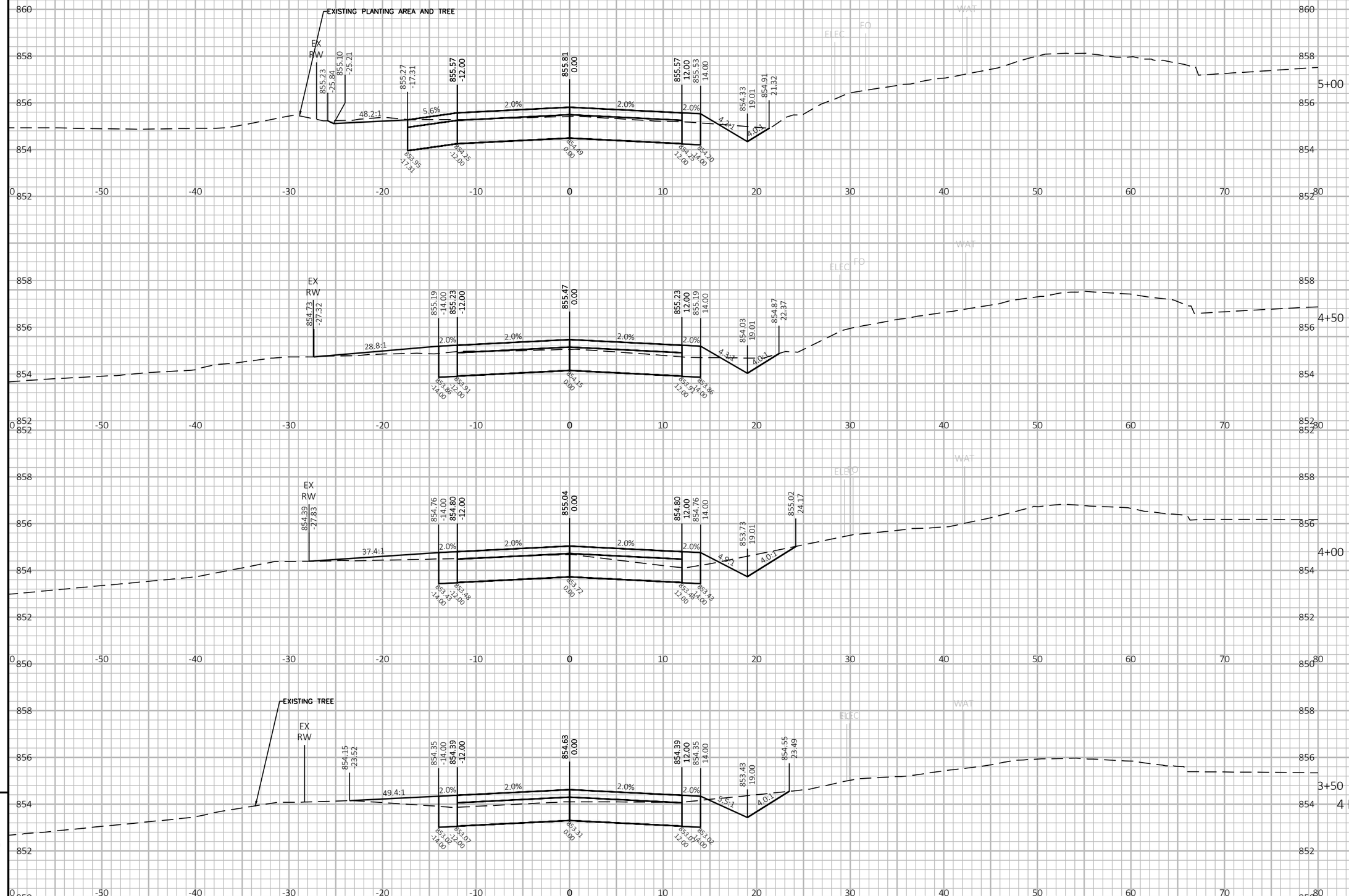


PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS: FRONTAGE RD	SHEET 688	E

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090203-xs

PLOT DATE : 1/30/2023 4:04 PM PLOT BY : DECENT, ZACH PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

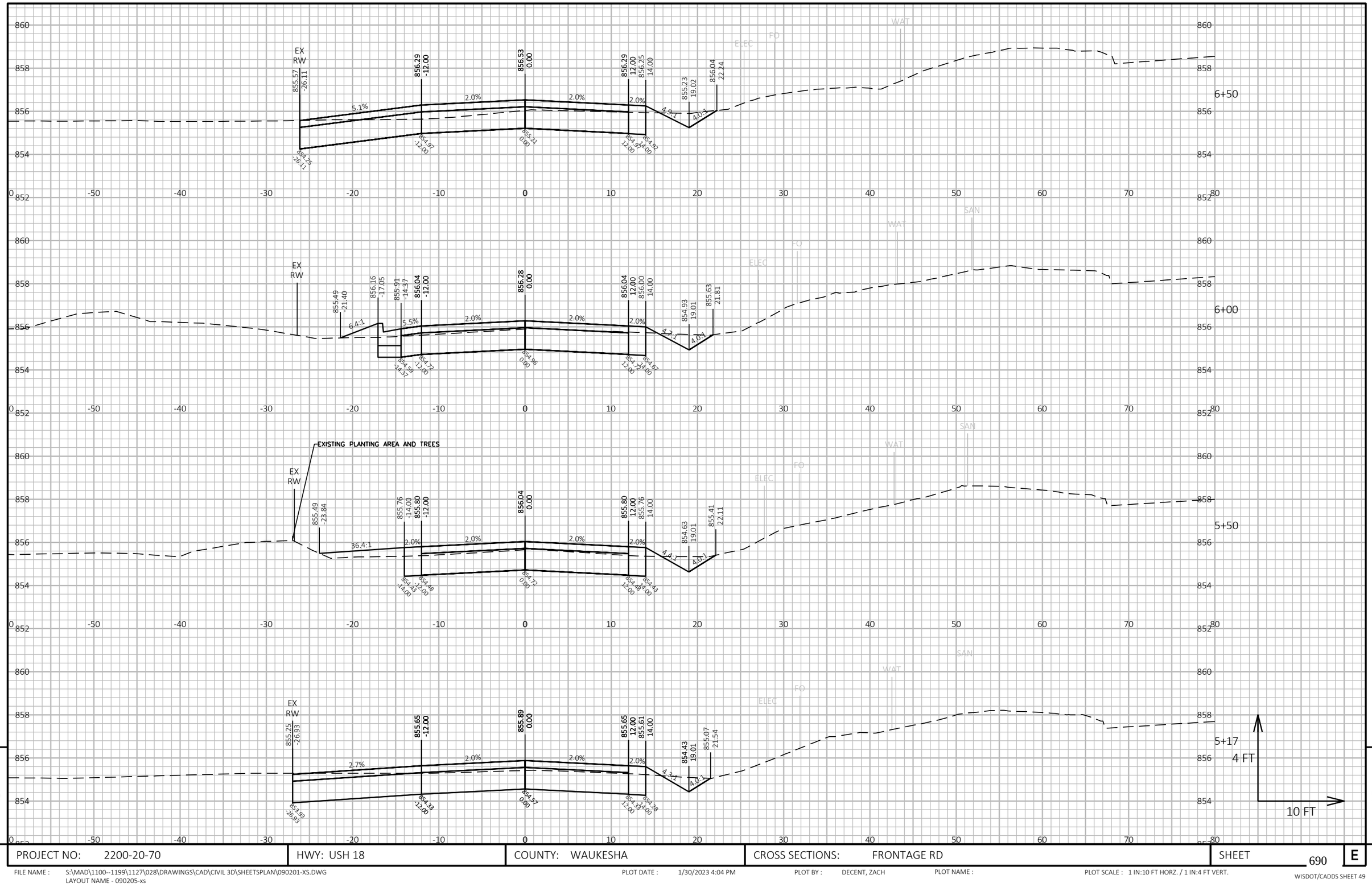


PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS: FRONTAGE RD	SHEET 689	E

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 1/30/2023 4:04 PM PLOT BY : DECENT, ZACH PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS: FRONTAGE RD	SHEET 690	E

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090205-xs

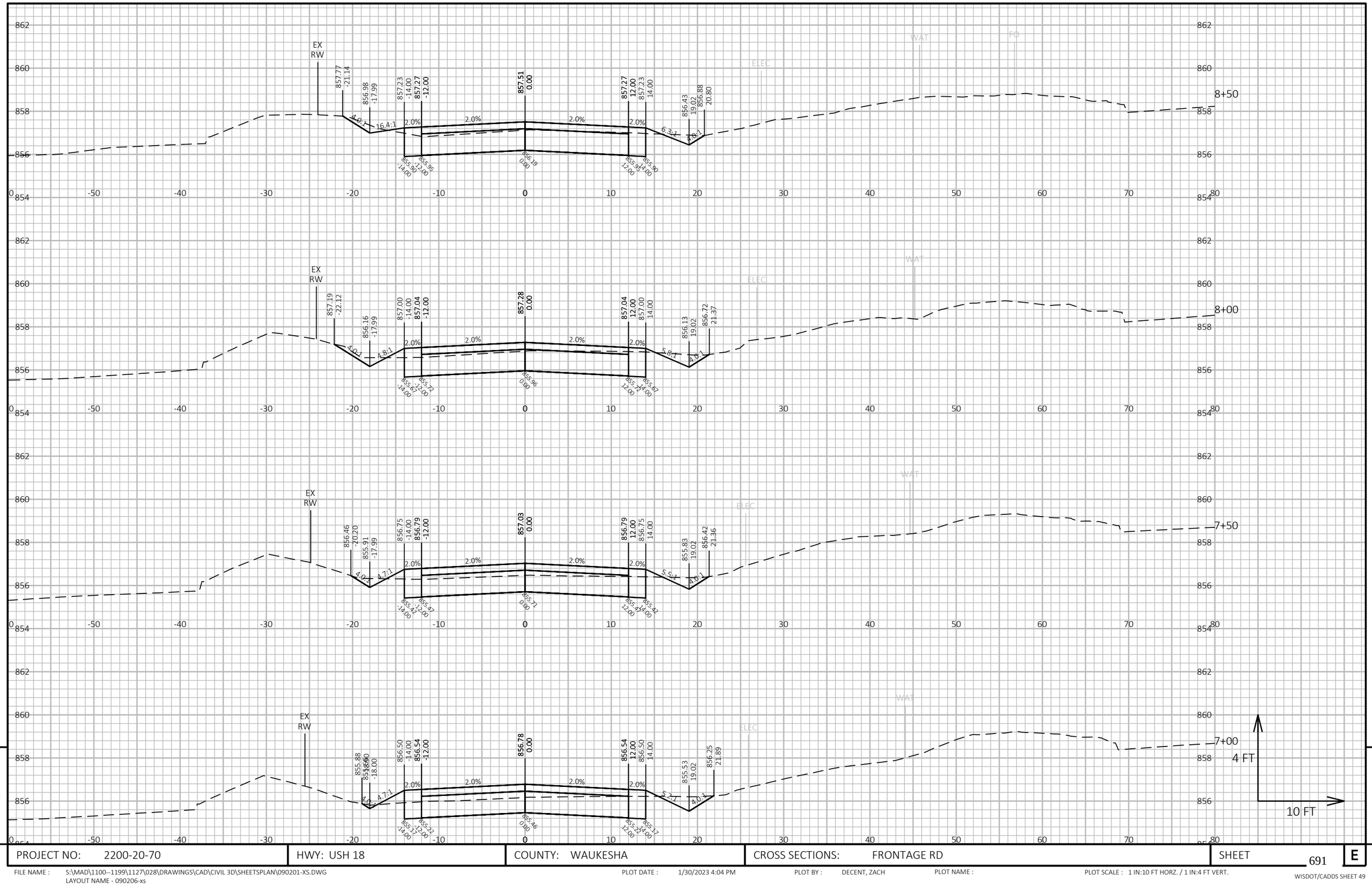
PLOT DATE : 1/30/2023 4:04 PM

PLOT BY : DECENT, ZACH

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



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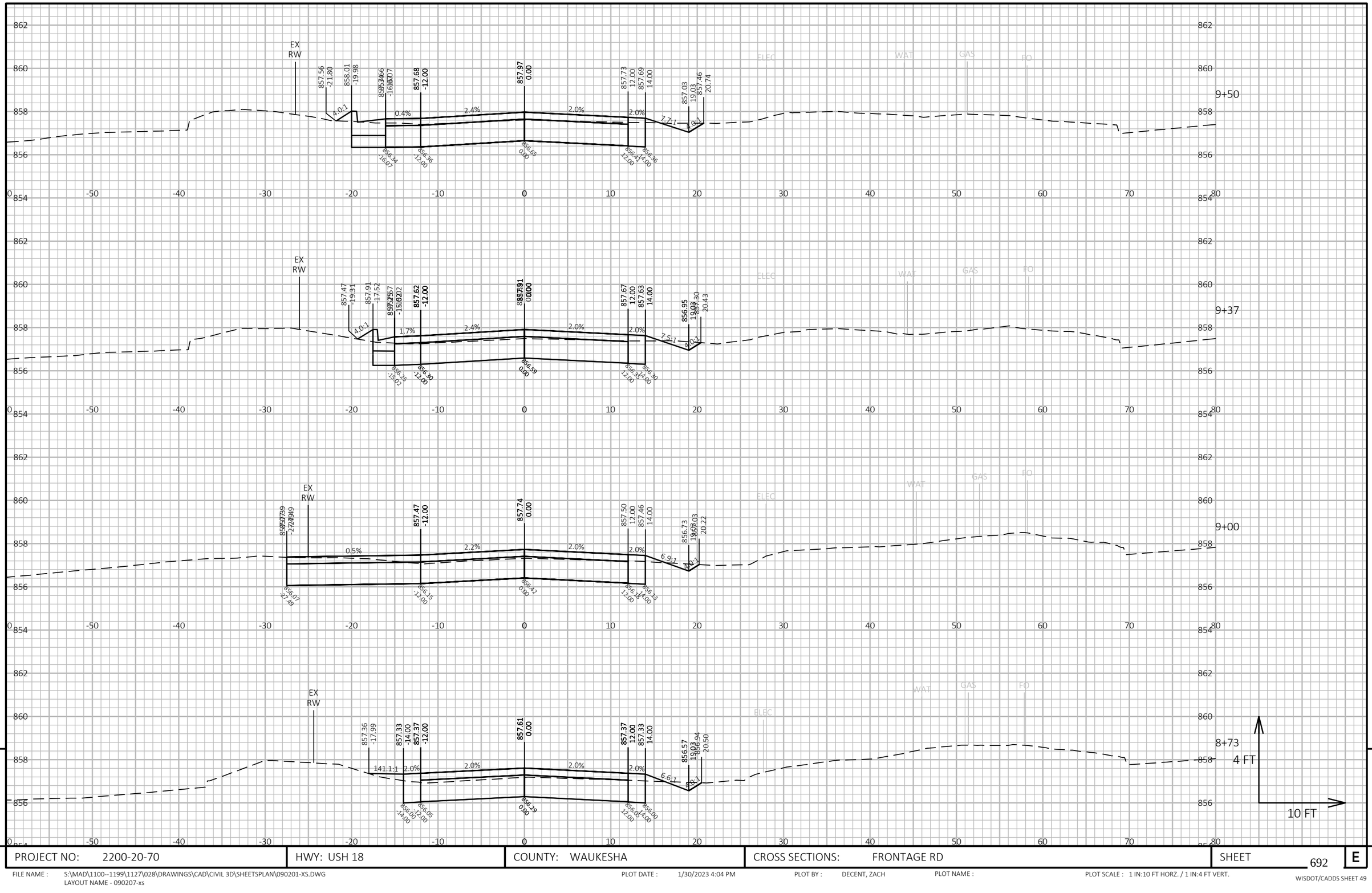
PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS: FRONTAGE RD	SHEET 691	E

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090206-xs

PLOT DATE : 1/30/2023 4:04 PM PLOT BY : DECENT, ZACH PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

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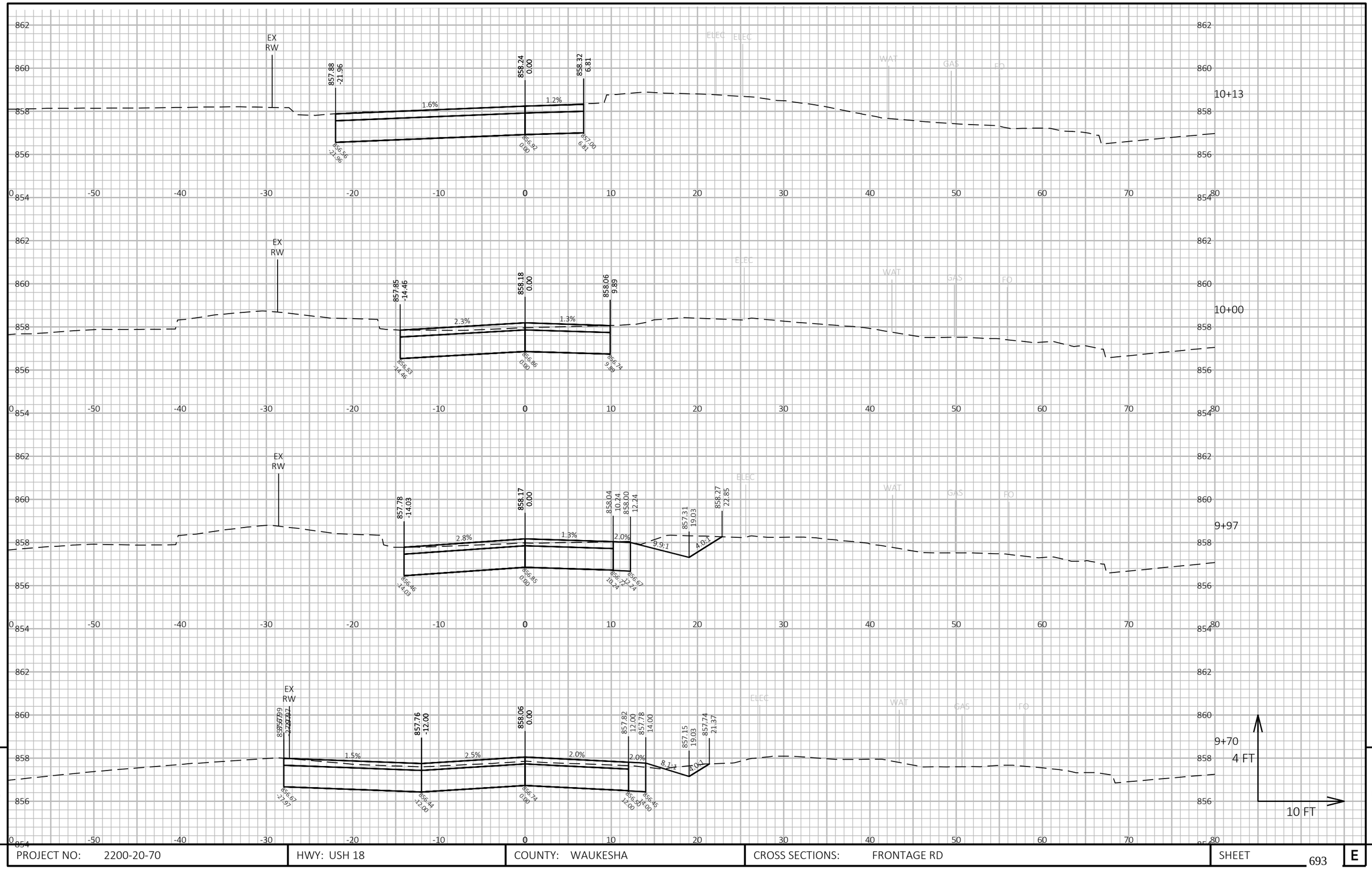


PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS: FRONTAGE RD	SHEET 692	E

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090207-xs

PLOT DATE : 1/30/2023 4:04 PM PLOT BY : DECENT, ZACH PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

PROJECT NO: 2200-20-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS: FRONTAGE RD	SHEET 693	E

9

FILE NAME : S:\MAD\1100--1199\1127\028\DRAWINGS\CAD\CIVIL 3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090208-xs

PLOT DATE : 1/30/2023 4:05 PM PLOT BY : DECENT, ZACH PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

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Wisconsin Department of Transportation

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