MAD

JANUARY 2026

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 = 148

PROJECT ID: 6070-01-63

WITH: N/A

COUNTY: DODGE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

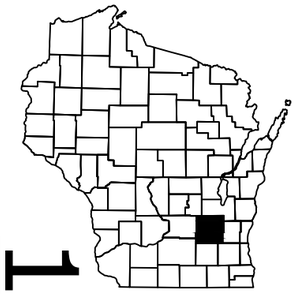
PORTAGE - FOX LAKE

STH 73 TO FOREST STREET

STH 33
DODGE COUNTY

STATE PROJECT NUMBER
6070-01-63

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6070-01-63	WISC 2026141	1



18

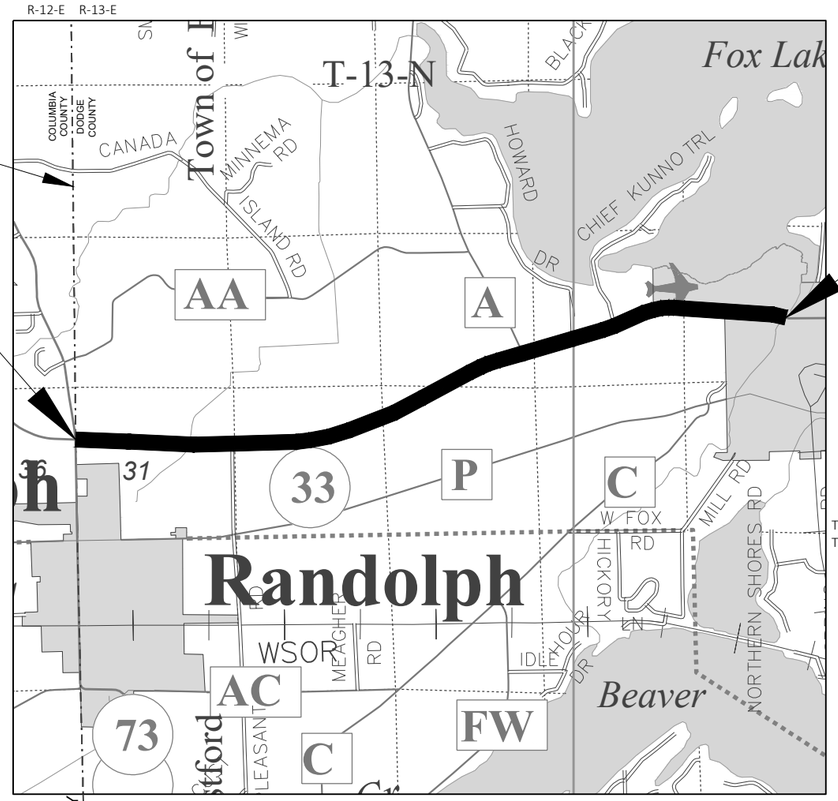
DESIGN DESIGNATION 6070-01-33

A.A.D.T.	2028	=	8000
A.A.D.T.	2048	=	9400
D.H.V.		=	480
D.D.		=	60/40
T.		=	23.7%
DESIGN SPEED		=	40 MPH/60 MPH
ESALS		=	4,500,000

N

COUNTY LINE

BEGIN PROJECT
STA 297+58.00
X=802,218.43
Y=759,292.08



END PROJECT
STA 545+05.00
X=826,118.11
Y=763,329.64

COLUMBIA COUNTY
DODGE COUNTY

LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 4.687 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), DODGE 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

ONEIDA Engineering Solutions

WISCONSIN
BRETT A. PETERSON
44665-6
SUN PRAIRIE
WI
PROFESSIONAL ENGINEER

DATE: 7/9/2025

(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	OES
Designer	OES
Project Manager	MATTHEW LAMB, PE
Regional Examiner	SW REGION
Regional Supervisor	JUSTIN KUTSCHENREUTER, PE

APPROVED FOR THE DEPARTMENT

DATE: 7/21/2025

(Signature)

E

2

GENERAL NOTES

THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE ARE OTHER UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

ALL RADII AREA MEASURED TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.

RESTORE EXISTING DRIVEWAYS IN KIND AND AT THE LOCATION AND WIDTH DETERMINED BY THE ENGINEER IN THE FIELD.

PAVING LIMITS AT INTERSECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

THE RATE OF APPLICATION FOR TACK COAT IS 0.050 GAL/SY BETWEEN LAYERS, 0.070 GAL/SY ON MILLED SURFACES, OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.

THE LOCATION OF STOP LINES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED, FERTILIZED, SEEDED, AND EROSION MATTED AS DIRECTED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE QUANTITY OF THE ITEMS FOR EROSION PROTECTION INCLUDES AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROL, AND ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE DETERMINED BY THE ENGINEER.

HAND MILLING OPERATIONS MAY BE NECESSARY TO ENSURE THAT SURVEY MONUMENTS ARE NOT DISTURBED DURING MILLING OPERATIONS. PAYMENT IS INCLUDED AS PART OF REMOVING ASPHALTIC SURFACE MILLING.

MILL AND PAVE ADJACENT TO MONUMENT WITHOUT DAMAGING THE MONUMENT.

STANDARD ABBREVIATIONS

AGG	AGGREGATE	NB	NORTHBOUND
ASPH.	ASPHALTIC	PAV'T	PAVEMENT
BM	BENCH MARK	P.C.	POINT OF CURVATURE
C/L	CENTER LINE	P.I.	POINT OF INTERSECTION
CMCP	CORRUGATED METAL CULVERT PIPE	P.T.	POINT OF TANGENCY
CMP	CORRUGATED METAL PIPE	R	RADIUS OF CURVE
CO.	COUNTY	R/L	REFERENCE LINE
CTH	COUNTRY TRUCK HIGHWAY	REQ'D	REQUIRED
CONC	CONCRETE	RT	RIGHT
CPRC	CULVERT PIPE REINFORCED CONCRETE	R/W	RIGHT OF WAY
CY	CUBIC-YARD	SHLD.	SHOULDER(S)
C&G	CURB AND GUTTER	STA.	STATION
DIA.	DIAMETER	SY	SQUARE YARD
EB	EASTBOUND	TYP	TYPICAL
EL	ELEVATION	V.C.	VERTICAL CURVE
EXIST	EXISTING	V.C.L.	VERTICAL CURVE LENGTH
F.E.	FIELD ENTRANCE	V.P.C.	VERTICAL POINT OF CURVATURE
HMA	HOT MIX ASPHALT	V.P.I .	VERTICAL POINT OF INTERSECTION
INV	INVERT	V.P.T.	VERTICAL POINT OF TANGENCY
LT	LEFT	WB	WESTBOUND
M/L	MATCHLINE		

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
PAVEMENT MARKING
TRAFFIC CONTROL
STAGE CONSTRUCTION
DETOUR PLAN

DNR LIAISON

ERIC HEGGELUND
ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST
WISCONSIN DEPT. OF NATURAL RESOURCES
SOUTH CENTRAL REGION
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DESIGN CONTACTS

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PROJECT DESIGNER
ONEIDA ENGINEERING SOLUTIONS
5100 EASTPARK BLVD. SUITE 300
MADISON, WI 53718
(608) 241-6710
BPETERSON@OESCGROUP.COM

UTILITY CONTACTS

ALLIANT ENERGY - ELECTRICITY
JEREMY RENTMEESTER
120 E MAPLE AVE
BEAVER DAM, WI 53916
(920) 904-1753
JEREMYRENTMEESTER@ALLIANTENERGY.COM

ALLIANT ENERGY - GAS/PETROLEUM
JEREMY RENTMEESTER
120 E MAPLE AVE
BEAVER DAM, WI 53916
(920) 904-1753
JEREMYRENTMEESTER@ALLIANTENERGY.COM

ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION
DOUG VOSBERG
2489 RINDEN RD
COTTAGE GROVE, WI 53527
(608) 877-7650
DVOSBERG@ATCLLC.COM

BRIGHTSPEED OF SOUTHERN WI - COMMUNICATION LINE
SCOTT HEINZELMAN
144 N PEARL ST
BERLIN, WI 54923
(920) 757-4802
SCOTT.HEINZELMAN@BRIGHTSPEED.COM

BRIGHTSPEED TELEVIEW, INC. - COMMUNICATION LINE
SCOTT HEINZELMAN
144 N PEARL ST
BERLIN, WI 54923
(920) 757-4802
SCOTT.HEINZELMAN@BRIGHTSPEED.COM

CITY OF FOX LAKE UTILITIES - SEWER
BRAD RUENGER
248 E STATE ST
FOX LAKE, WI 53933
(920) 928-3577
BRADRUENGER@CITYOFFOXLAKE.ORG

CITY OF FOX LAKE UTILITIES - WATER
BRAD RUENGER
248 E STATE ST
FOX LAKE, WI 53933
(920) 928-3577
BRADRUENGER@CITYOFFOXLAKE.ORG

SPECTRUM - COMMUNICATION LINE
JOSH WALKOWIAK
165 KNIGHTS WAY
FOND DU LAC, WI 54935
(608) 419-6214
JOSHUA.WALKOWIAK@CHARTER.COM

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

LOCATION	TOTAL LAYER PAVEMENT THICKNESS	LAYERS	HMA PAVEMENT ITEM
STH 33	3.5-INCHES	1.75" UPPER 1.75" LOWER	HMA PAVEMENT 4 MT 58-28 H HMA PAVEMENT 4 MT 58-28 S
SIDE ROADS	3.5-INCHES	1.75" UPPER 1.75" LOWER	HMA PAVEMENT 4 MT 58-28 H HMA PAVEMENT 4 MT 58-28 S
STH 33/STH 73 INTERSECTION	5.25-INCHES	2.25" UPPER 3.00" LOWER	HMA PAVEMENT 4 MT 58-28 H HMA PAVEMENT 4 MT 58-28 H
STH 33 CULVERT REPLACEMENT LOCATIONS	6-INCHES	1.75" UPPER 1.75" MIDDLE 2.50" LOWER	ASPHALTIC SURFACE ASPHALTIC SURFACE ASPHALTIC SURFACE

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIPTURF:	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPETURF:			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT:	.70 - .95											
CONCRETE:	.80 - .95											
BRICK:	.70 - .80											
DRIVES, WALKS:	.75 - .85											
ROOFS:	.75 - .95											
GRAVEL ROADS, SHOULDERS:	.40 - .60											

TOTAL PROJECT AREA = 25.961 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 2.342 ACRES

2

N

BEGIN PROJECT
STA 297+58.00
X=802,218.43
Y=759,292.08

73

33

300

310

320

330

340

350

360

370

380

390

400

410

420

430

440

450

760'S

VILLAGE OF RANDOLPH LIMITS

STA. 317+92
24" X 36" CMCP
PIPE TO BE REPLACED

APPROXIMATE WETLAND BOUNDARY

PLEASANT ROAD

STA. 399+81
42" X 72" CMCP
PIPE TO BE REPLACED

STA. 416+44
30" X 45" CMCP
PIPE TO BE REPLACED

STA. 427+04
33" X 48" CMCP
PIPE TO BE REPLACED

STA. 452+78
30" X 45" CMCP
PIPE TO BE REPLACED

APPROXIMATE WETLAND BOUNDARY

N

APPROXIMATE WETLAND BOUNDARY

CHIEF KUNO TRAIL

HOWARD DRIVE

COUNTY A

STA. 504+31
36" X 57" CMCP
PIPE TO BE REPLACED

APPROXIMATE LIMITS OF ENVIRONMENTALLY SENSITIVE AREA

LINDEN LANE

BROWER BLVD

END PROJECT
STA 545+05.00
X=826,118.11
Y=763,329.64

500

510

520

530

540

550

560

490

480

470

460

STA. 515+68
24" X 36" CMCP
PIPE TO BE REPLACED

APPROXIMATE WETLAND BOUNDARY

FOREST STREET

STA. 493+11
30" CMCP
PIPE TO BE REPLACED

STA. 485+21
30" CMCP
PIPE TO BE REPLACED

STA. 532+55
36" CMCP
PIPE TO BE REPLACED

STA. 467+10
36" CMCP
PIPE TO BE REPLACED

STA. 474+31
30" CMCP
PIPE TO BE REPLACED

APPROXIMATE WETLAND BOUNDARY

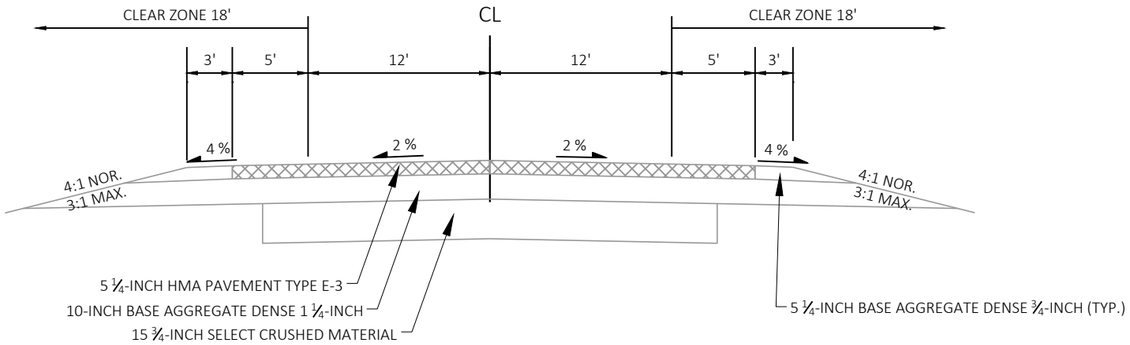
CITY OF FOX LAKE LIMITS

SCALE, FEET 0 500 1000

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PROJECT OVERVIEW	SHEET 3	E

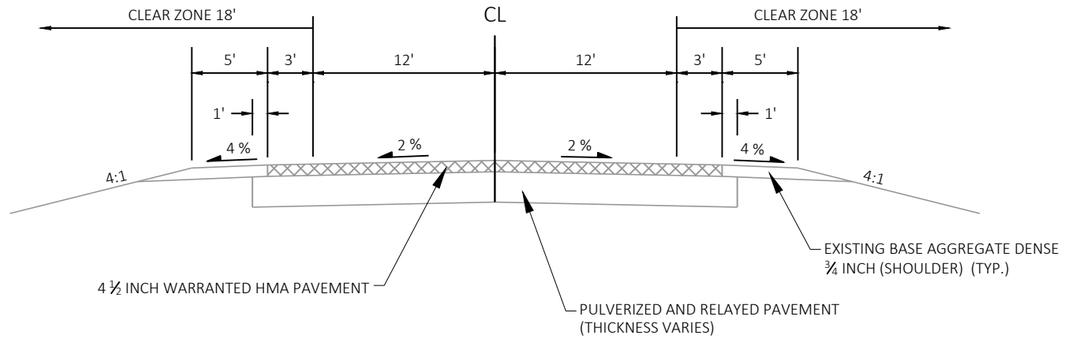
FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 01

PLOT DATE : 6/13/2025 10:27 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:1000 FT



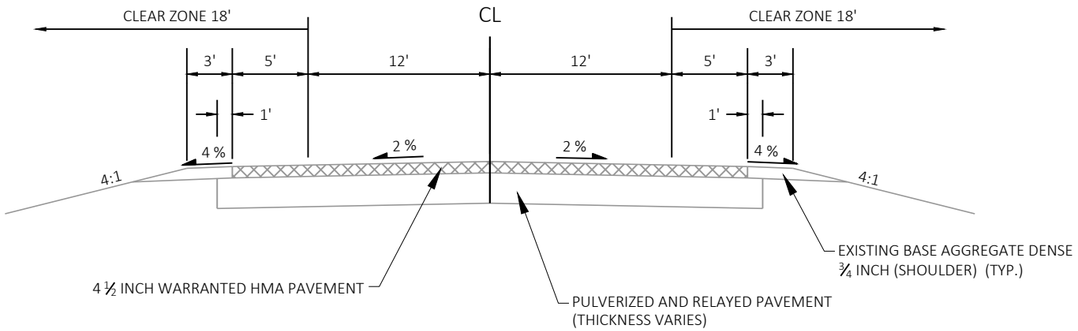
EXISTING TYPICAL SECTION

STH 33
STA. 297+58.00 - STA. 302+30.00



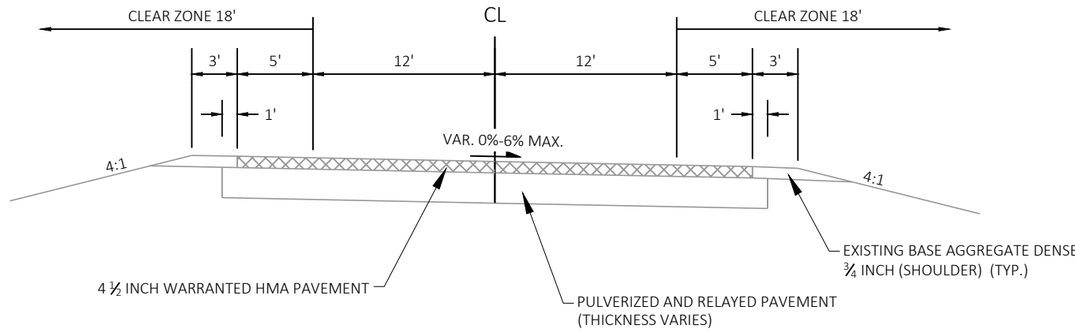
EXISTING TYPICAL SECTION

STH 33
STA. 302+30.00 - STA. 462+00.00



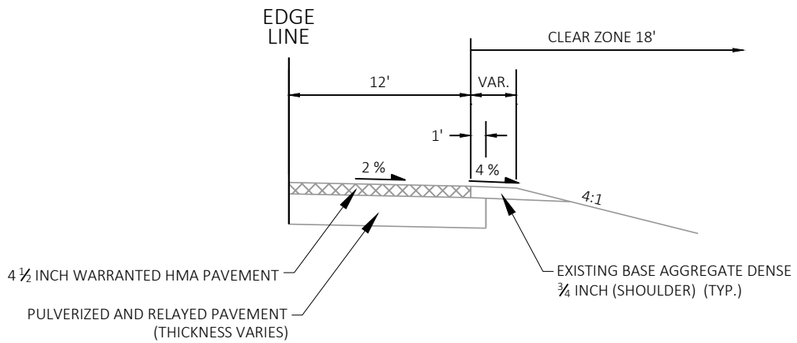
EXISTING TYPICAL SECTION

STH 33
STA. 462+00.00 - STA. 506+40.61
STA. 517+77.50 - STA. 545+05.00



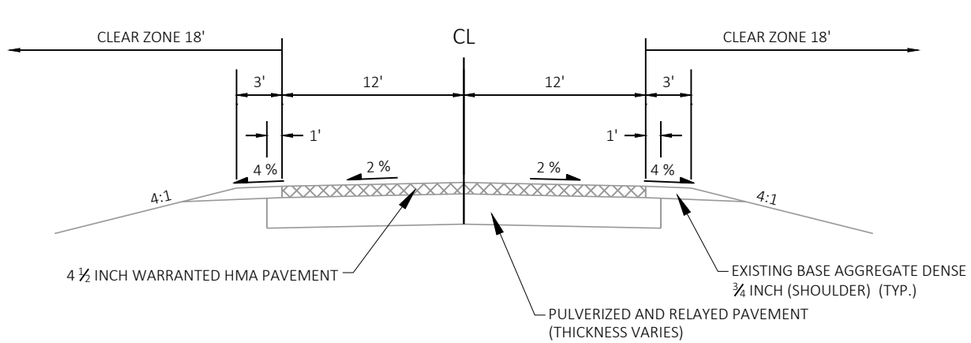
EXISTING TYPICAL SECTION

STH 33
SUPERELEVATION
STA. 506+40.61 - STA. 517+77.50



EXISTING BYPASS TYPICAL SECTION

STH 33
STA. 351+00.00 LT - STA. 357+20.00 LT, SHOULDER 5'
STA. 458+85.00 RT - STA. 465+20.00 RT, SHOULDER 5'
STA. 477+95.00 RT - STA. 483+46.00 RT, SHOULDER 3'
STA. 493+45.00 RT - STA. 497+60.00 RT, SHOULDER 3'



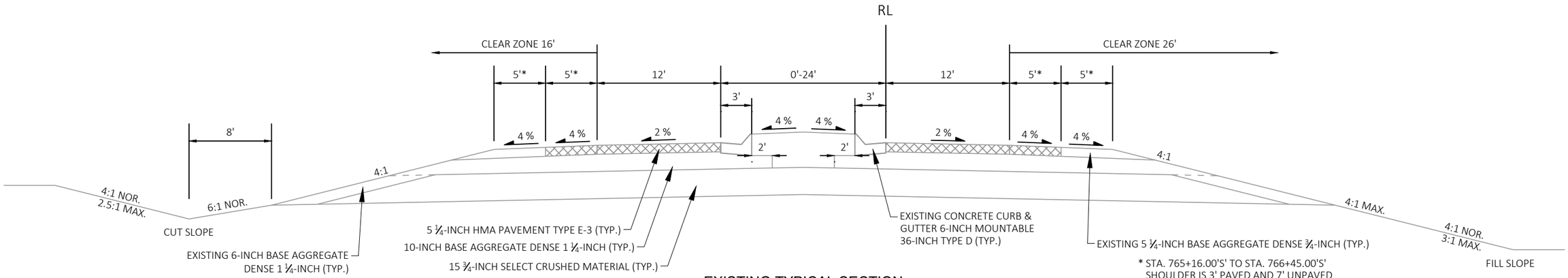
EXISTING SIDE ROAD TYPICAL SECTION

PLEASANT ROAD
CTH A
HOWARD DRIVE
CHIEF KUNO TRAIL
LINDEN LANE

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	TYPICAL SECTIONS	SHEET 4	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 01
PLOT DATE : 6/13/2025 12:09 PM
PLOT BY : BRETT PETERSON
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

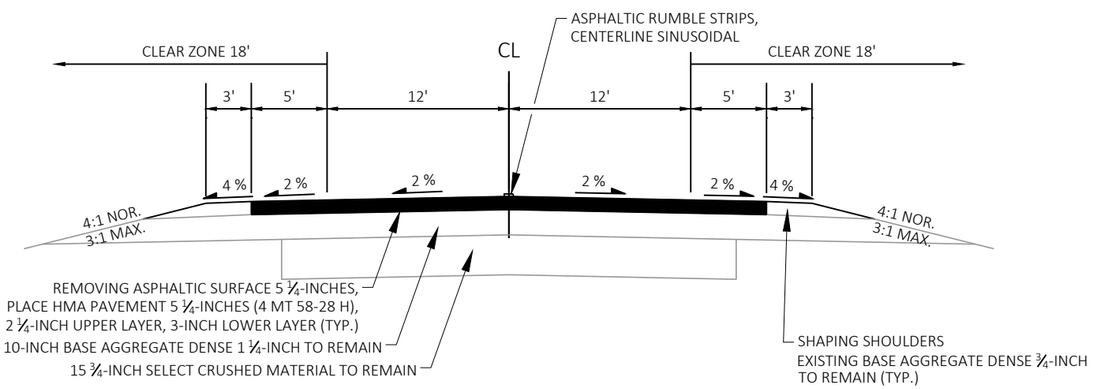
2



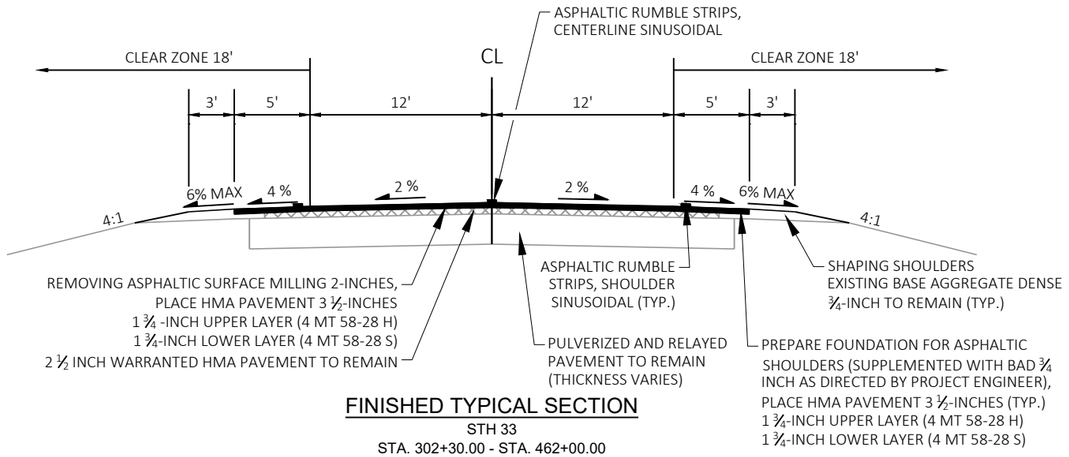
EXISTING TYPICAL SECTION

STH 73
STA. 760+78.00'S' - STA. 766+45.00'S'

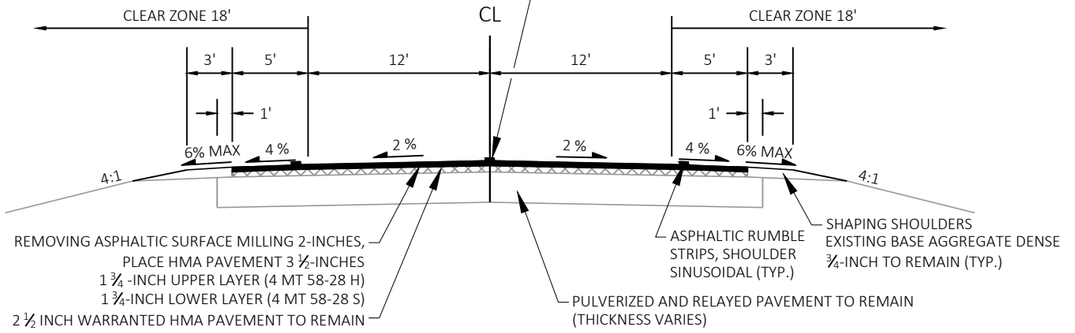
PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	TYPICAL SECTIONS	SHEET 5	E



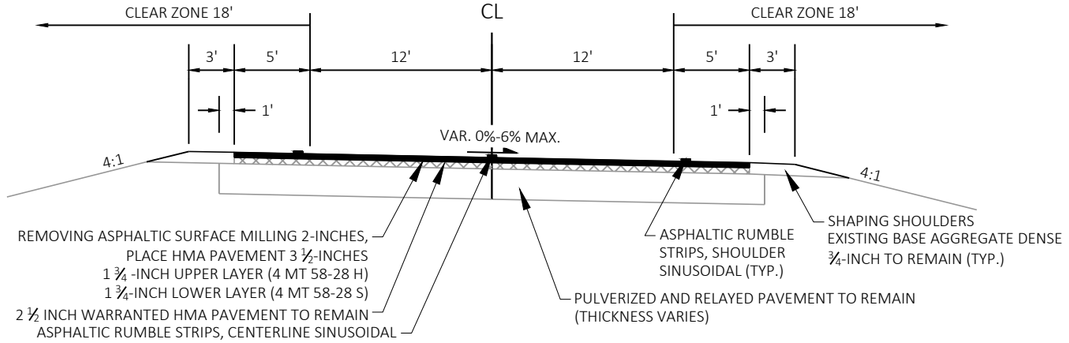
FINISHED TYPICAL SECTION
STH 33
STA. 297+58.00 - STA. 302+30.00



FINISHED TYPICAL SECTION
STH 33
STA. 302+30.00 - STA. 462+00.00



FINISHED TYPICAL SECTION
STH 33
STA. 462+00.00 - STA. 506+40.61
STA. 517+77.50 - STA. 545+05.00

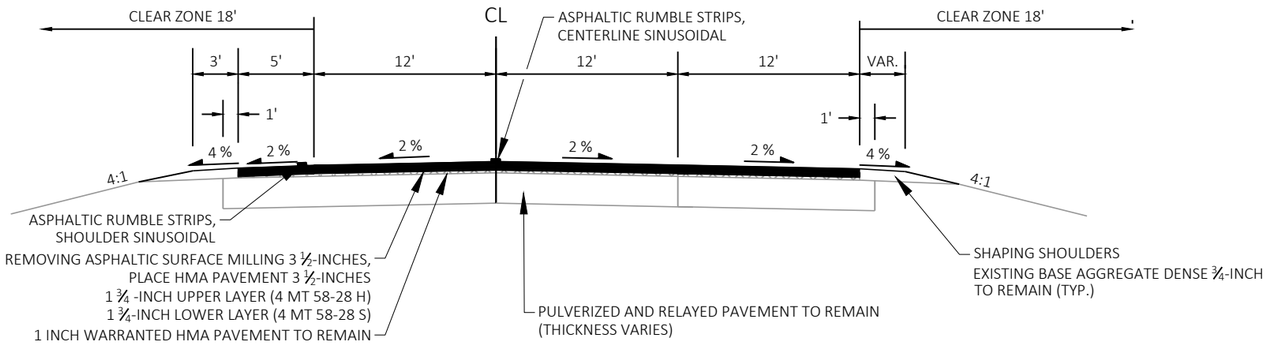


FINISHED TYPICAL SECTION
STH 33
SUPERELEVATION
STA. 506+40.61 - STA. 517+77.50

GENERAL FINISHED TYPICAL SECTION NOTES:

1) MILL AND REMOVE PAVEMENT ACROSS ENTIRE PAVEMENT WIDTH.
2) ADJUST MILLING CROSS SLOPES OF SHOULDERS TO FACILITATE TIE-IN AS NEEDED.
3) TREAT SPOT LOCATIONS OF PAVEMENT WEAKNESS AND/OR SIGNIFICANT BREAKUP AFTER MILLING WITH "REMOVING DISTRESSED PAVEMENT MILLING".
4) FOR WIDENING PAVED SHOULDERS, EXCAVATE THE EXISTING SHOULDER AGGREGATE AND SHAPE UNDER "PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS" AND PAVE SHOULDER WIDTH CONCURRENTLY WITH MAINLINE.
5) PAVED SHOULDER TO BE PAVED INTEGRALLY WITH 12' DRIVING LANES.
6) THE 4% CROSS SLOPE OF THE PAVED SHOULDER TO BE ACHIEVED VIA THE MILLING OPERATION.
7) UNPAVED SHOULDER SLOPE: 4.83% NOR., 6% MAX. FOR NON-SUPERELEVATED STH 33.

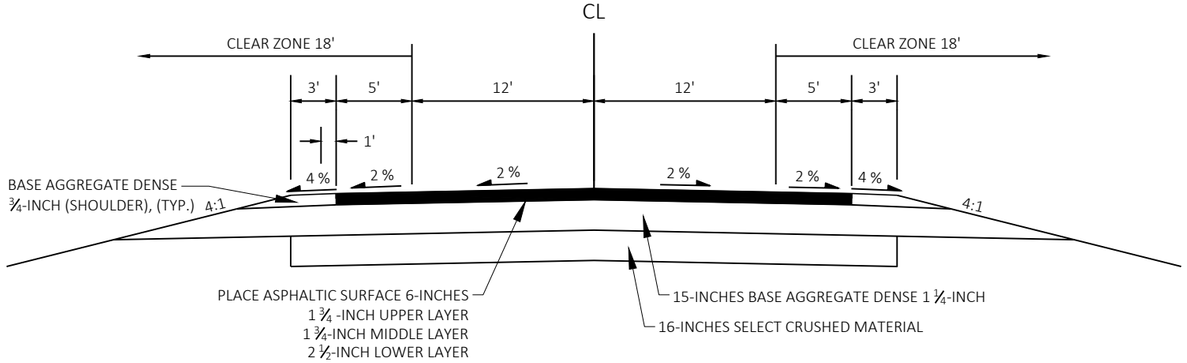
PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	TYPICAL SECTIONS	SHEET 6	E



FINISHED BYPASS TYPICAL SECTION

STH 33

STA. 351+00.00 LT - STA. 357+20.00 LT, SHOULDER 5'
STA. 458+85.00 RT - STA. 465+20.00 RT, SHOULDER 5'
STA. 477+95.00 RT - STA. 483+46.00 RT, SHOULDER 3'
STA. 493+45.00 RT - STA. 497+60.00 RT, SHOULDER 3'



FINISHED TYPICAL SECTION

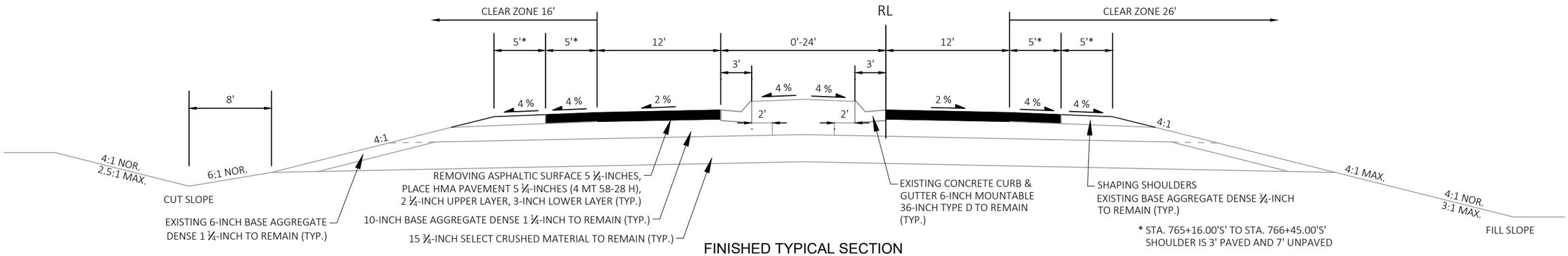
STH 33

CULVERT REPLACEMENT LOCATIONS PRIOR TO MILLING OPERATIONS

GENERAL FINISHED TYPICAL SECTION NOTES:

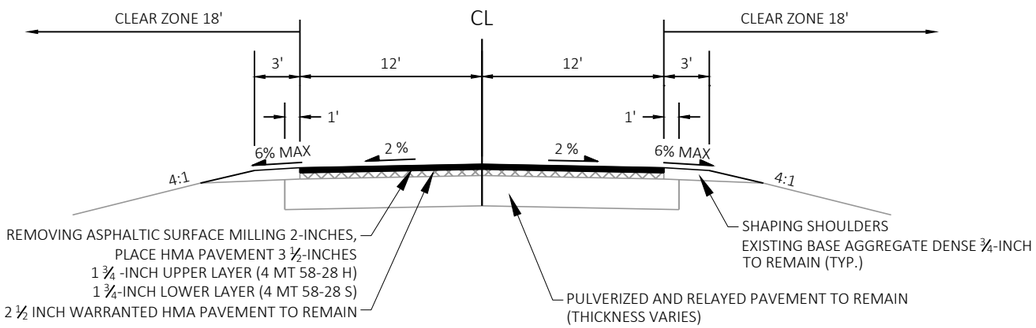
1) MILL AND REMOVE PAVEMENT ACROSS ENTIRE PAVEMENT WIDTH.
2) ADJUST MILLING CROSS SLOPES OF SHOULDERS TO FACILITATE TIE-IN AS NEEDED.
3) TREAT SPOT LOCATIONS OF PAVEMENT WEAKNESS AND/OR SIGNIFICANT BREAKUP AFTER MILLING WITH "REMOVING DISTRESSED PAVEMENT MILLING".
4) FOR WIDENING PAVED SHOULDERS, EXCAVATE THE EXISTING SHOULDER AGGREGATE AND SHAPE UNDER "PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS" AND PAVE SHOULDER WIDTH CONCURRENTLY WITH MAINLINE.
5) PAVED SHOULDER TO BE PAVED INTEGRALLY WITH 12' DRIVING LANES.

2



FINISHED TYPICAL SECTION

STH 73
STA. 760+78.00'S' - STA. 766+45.00'S'



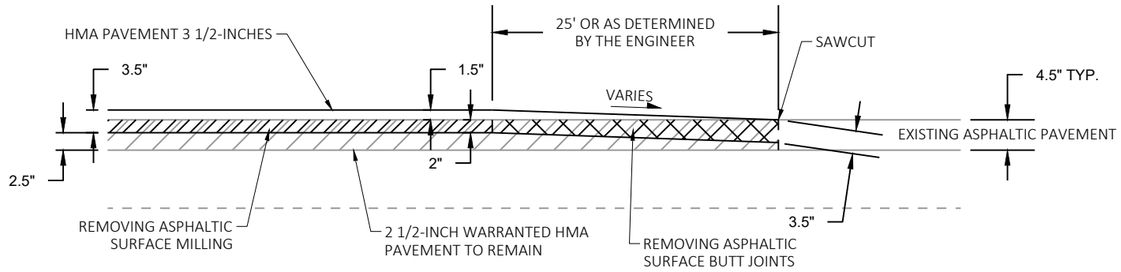
FINISHED SIDE ROAD TYPICAL SECTION

PLEASANT ROAD
CTH A
HOWARD DRIVE
CHIEF KUNO TRAIL
LINDEN LANE

GENERAL FINISHED TYPICAL SECTION NOTES:

1) MILL AND REMOVE PAVEMENT ACROSS ENTIRE PAVEMENT WIDTH.
2) ADJUST MILLING CROSS SLOPES OF SHOULDERS TO FACILITATE TIE-IN AS NEEDED.
3) TREAT SPOT LOCATIONS OF PAVEMENT WEAKNESS AND/OR SIGNIFICANT BREAKUP AFTER MILLING WITH "REMOVING DISTRESSED PAVEMENT MILLING".
4) FOR WIDENING PAVED SHOULDERS, EXCAVATE THE EXISTING SHOULDER AGGREGATE AND SHAPE UNDER "PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS" AND PAVE SHOULDER WIDTH CONCURRENTLY WITH MAINLINE.
5) PAVED SHOULDER TO BE PAVED INTEGRALLY WITH 12' DRIVING LANES.

2



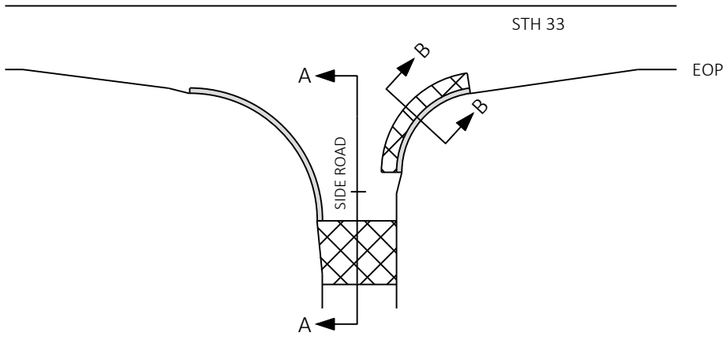
REMOVING ASPHALTIC SURFACE MILLING

REMOVING ASPHALTIC SURFACE BUTT JOINT

BUTT JOINT DETAIL MAINLINE

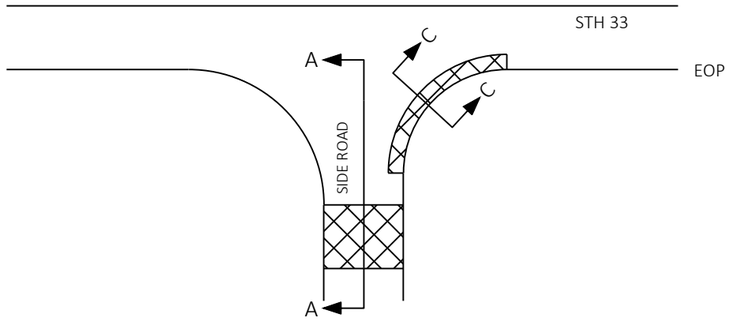
STH 33 - STA 545+05

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	CONSTRUCTION DETAILS	SHEET 9	E

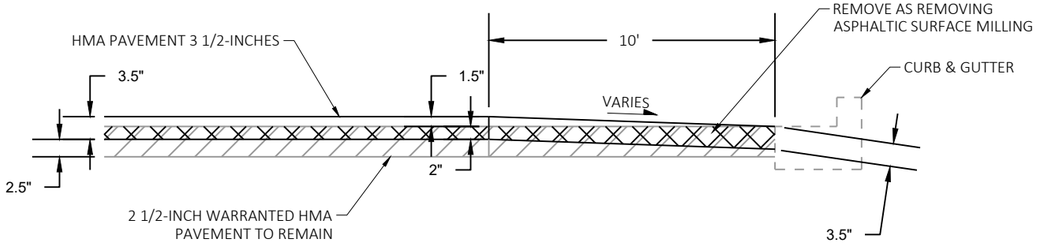


PLAN

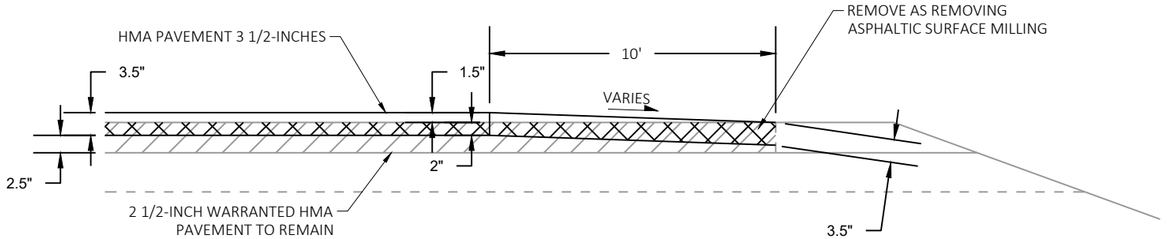
DETAIL AT SIDE ROADS AND DRIVEWAYS
WITH EXISTING CURB & GUTTER



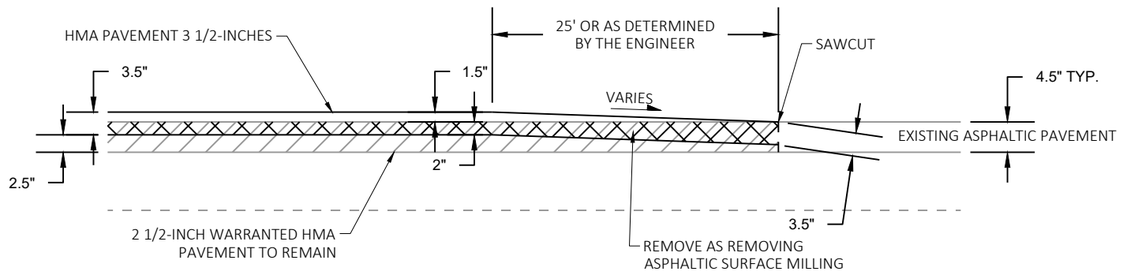
PLAN



SECTION B-B



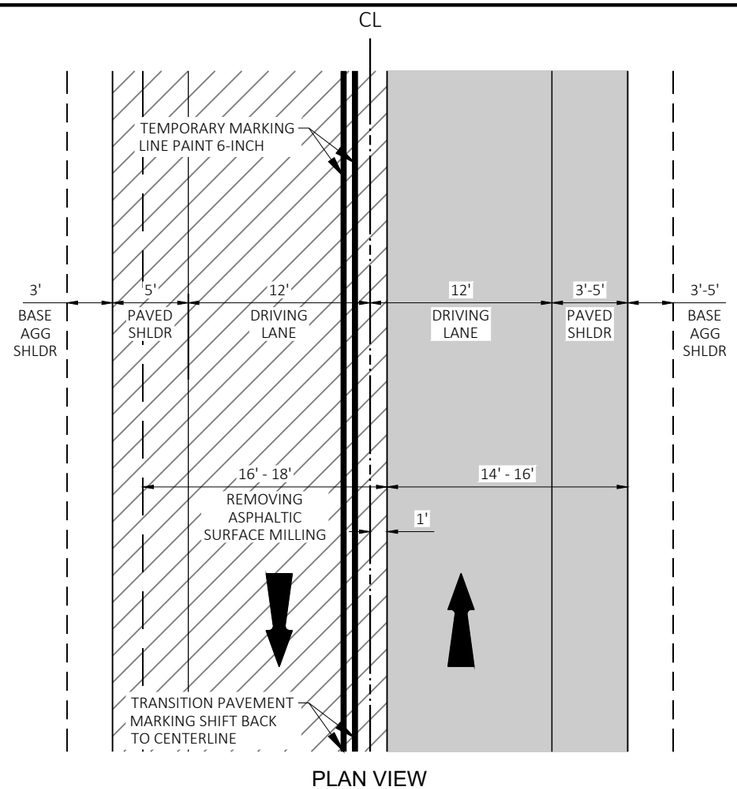
SECTION C-C



SECTION A-A

SIDE ROAD DETAIL

PLEASANT ROAD
CTH A
HOWARD DRIVE
CHIEF KUNO TRAIL
LINDEN LANE
BROWER BOULEVARD

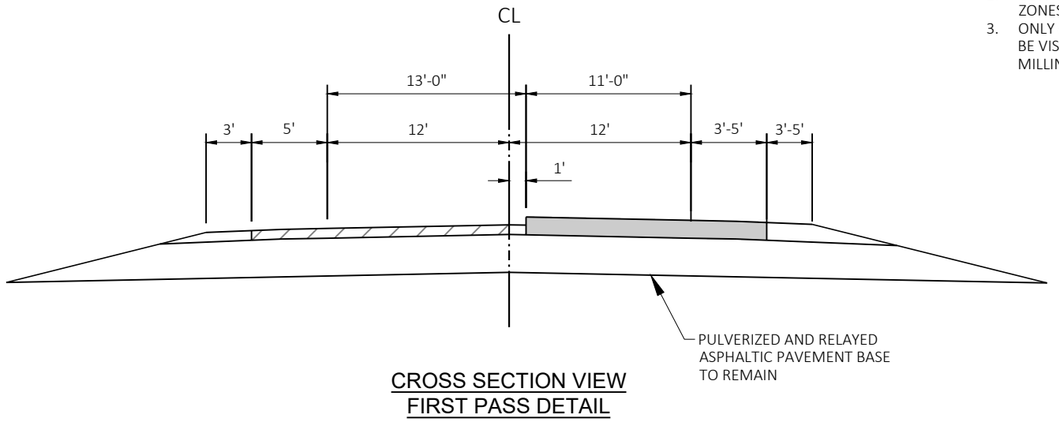


PLAN VIEW

EXISTING ASPHALTIC SURFACE TO REMAIN

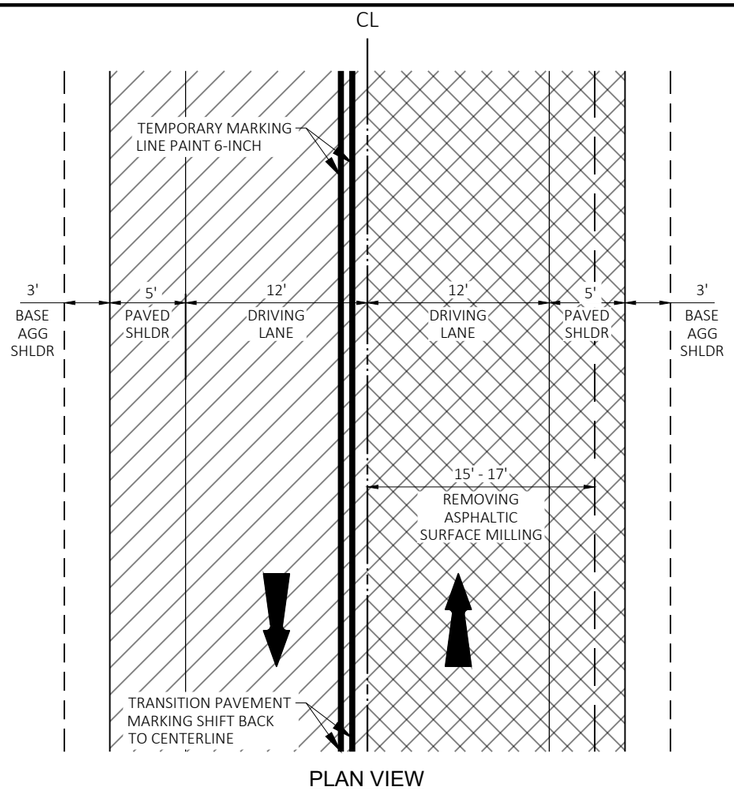
FIRST PASS REMOVING ASPHALTIC SURFACE MILLING 2"
FIRST PASS PLACING 1.75" HMA PAVEMENT LOWER LAYER 4 MT 58-28 S

* PAVED SHOULDER WIDTH VARIES
BASED ON TYPICAL SECTIONS



CROSS SECTION VIEW
FIRST PASS DETAIL

NOTES:
1. THESE DETAILS DO NOT APPLY TO FULL DEPTH PAVEMENT REPLACEMENT AT STH 73 INTERSECTION AND CULVERT REPLACEMENTS.
2. CONTRACTOR SHALL STAKE OUT NO PASSING ZONES PRIOR TO START OF MILLING WORK.
3. ONLY ONE SET OF PAVEMENT MARKING WILL BE VISIBLE TO MOTORISTS AT A TIME DURING MILLING AND PAVING OPERATIONS.

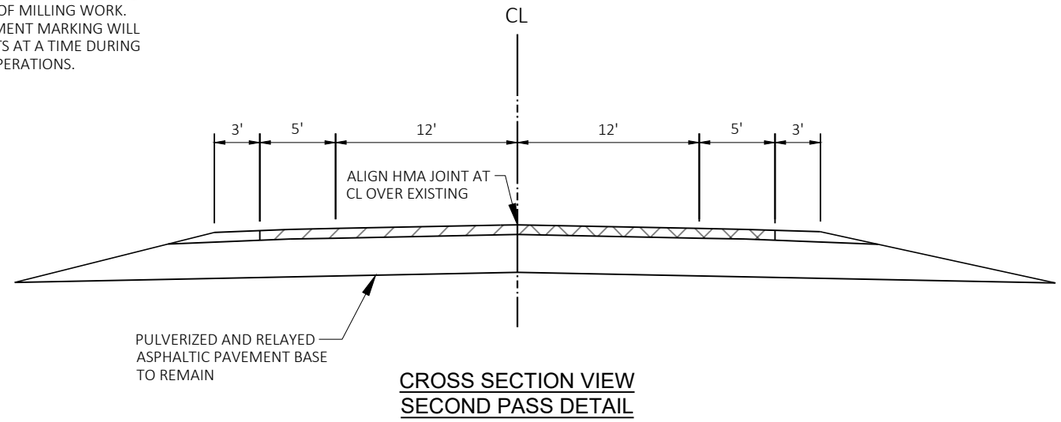


PLAN VIEW

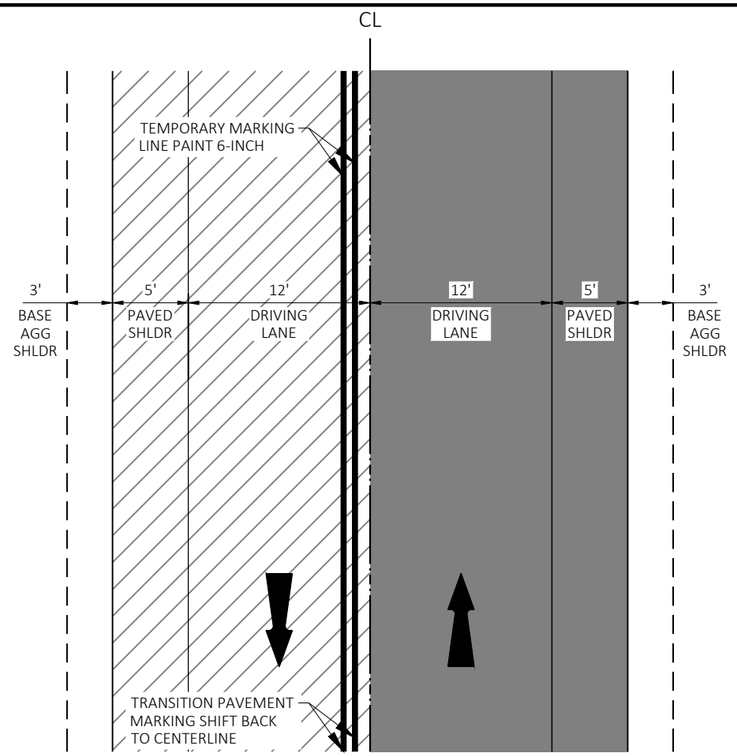
1.75" HMA PAVEMENT LOWER LAYER 4 MT 58-28 S

SECOND PASS REMOVING ASPHALTIC SURFACE MILLING 2"
SECOND PASS PLACING 1.75" HMA PAVEMENT LOWER LAYER 4 MT 58-28 S

* PAVED SHOULDER WIDTH VARIES
BASED ON TYPICAL SECTIONS



CROSS SECTION VIEW
SECOND PASS DETAIL



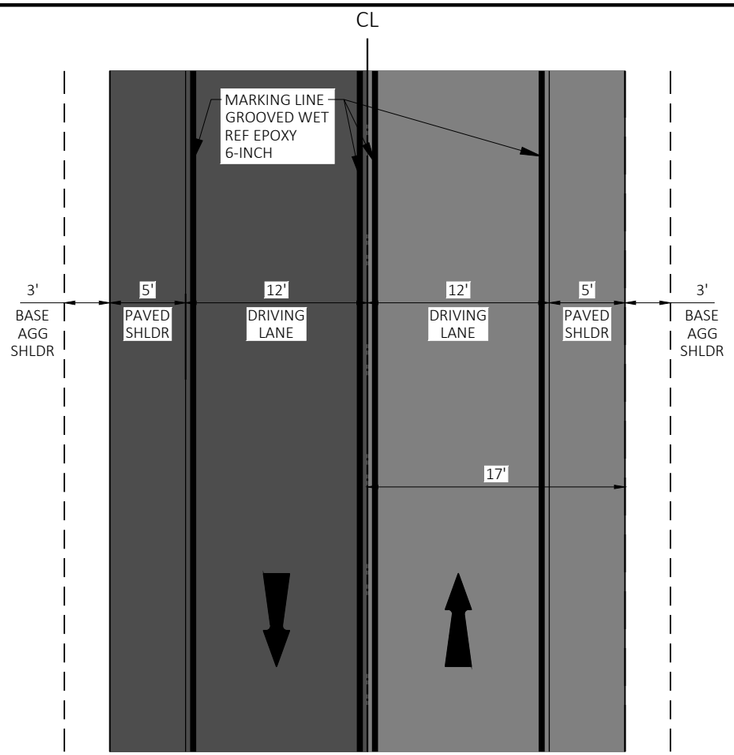
PLAN VIEW

THIRD PASS PLACING 1.75" HMA PAVEMENT UPPER LAYER 4 MT 58-28 H

1.75" HMA PAVEMENT LOWER LAYER 4 MT 58-28 S

1.75" HMA PAVEMENT LOWER LAYER 4 MT 58-28 S

* PAVED SHOULDER WIDTH VARIES BASED ON TYPICAL SECTIONS



PLAN VIEW

1.75" HMA PAVEMENT UPPER LAYER 4 MT 58-28 H

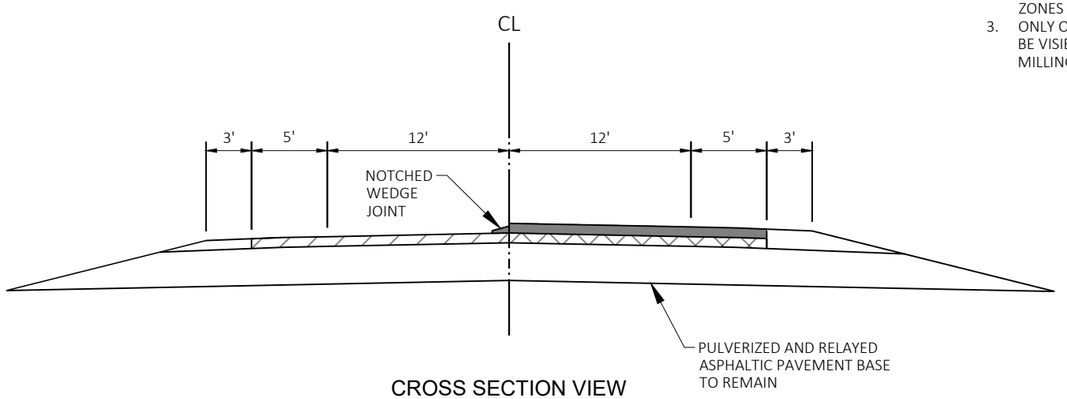
FOURTH PLACING PASS 1.75" HMA PAVEMENT UPPER LAYER 4 MT 58-28 H

1.75" HMA PAVEMENT LOWER LAYER 4 MT 58-28 S

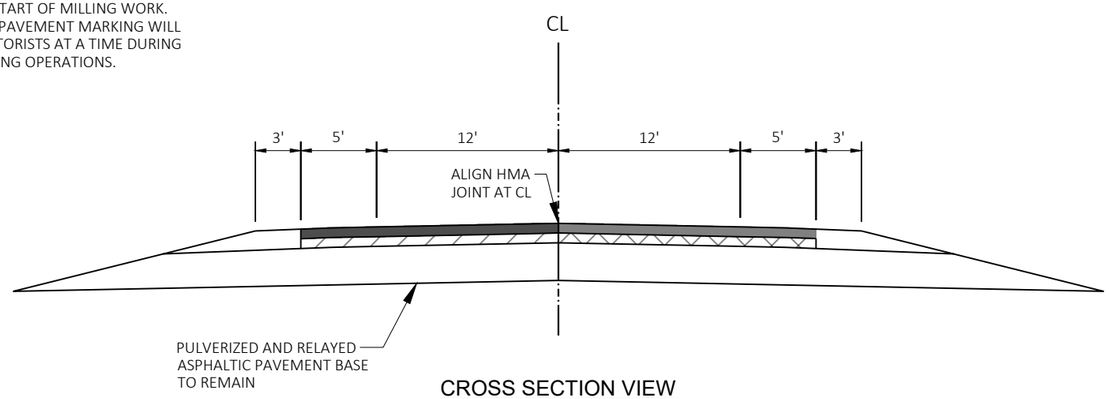
1.75" HMA PAVEMENT LOWER LAYER 4 MT 58-28 S

* PAVED SHOULDER WIDTH VARIES BASED ON TYPICAL SECTIONS

NOTES:
1. THESE DETAILS DO NOT APPLY TO FULL DEPTH PAVEMENT REPLACEMENT AT STH 73 INTERSECTION AND CULVERT REPLACEMENTS.
2. CONTRACTOR SHALL STAKE OUT NO PASSING ZONES PRIOR TO START OF MILLING WORK.
3. ONLY ONE SET OF PAVEMENT MARKING WILL BE VISIBLE TO MOTORISTS AT A TIME DURING MILLING AND PAVING OPERATIONS.

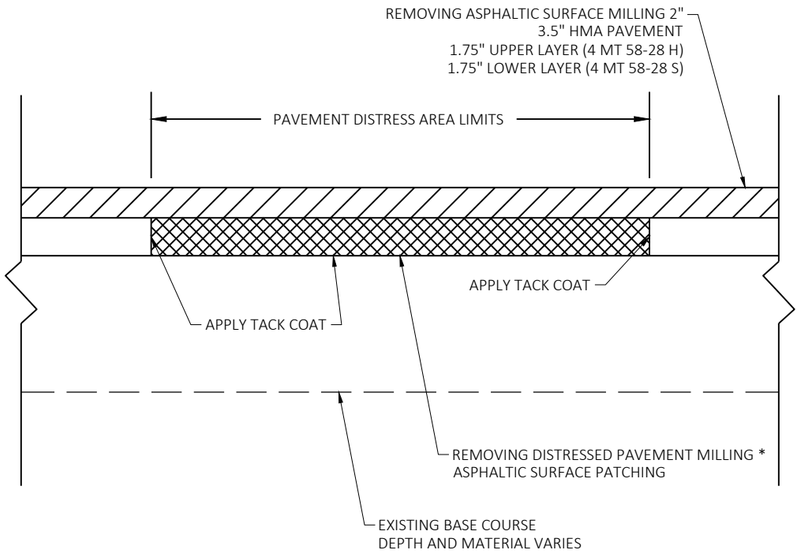


CROSS SECTION VIEW
THIRD PASS DETAIL



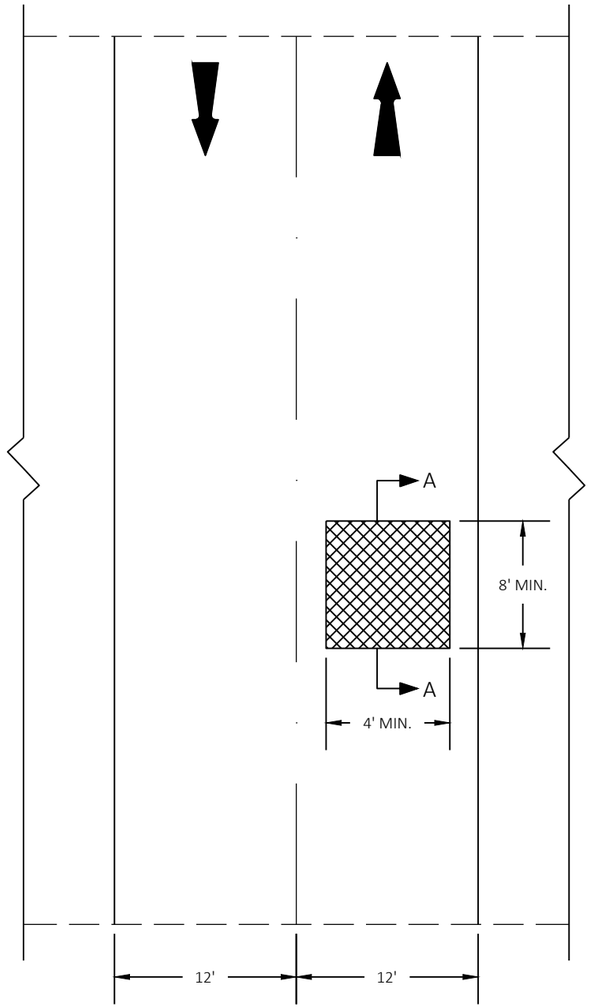
CROSS SECTION VIEW
FOURTH PASS DETAIL

2



* DEPTH OF MILL AND REPLACE MAY VARY, 2.5" ±

SECTION A-A



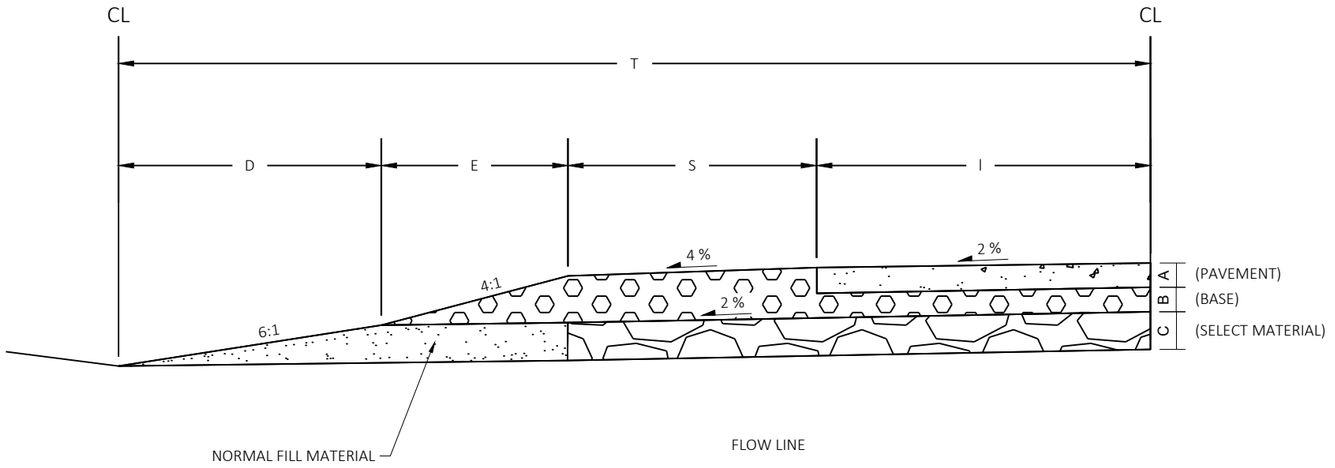
PLAN VIEW

REMOVING DISTRESSED PAVEMENT MILLING

LOCATIONS TO BE DETERMINED BY ENGINEER IN FIELD

2

TYPICAL HALF SECTION WITH SELECT MATERIALS (OUTSIDE DITCH)

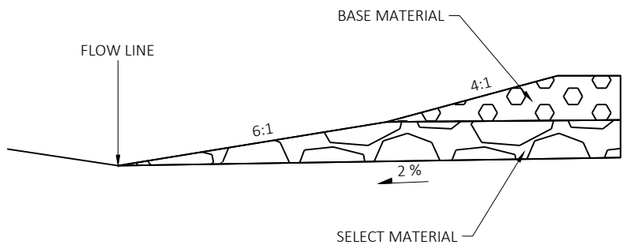


NOTES:
1. RELIEF TRENCHES TO BE PLACED AT THE LOWEST ELEVATION ALONG THE PROFILE WHERE SELECT CRUSHED MATERIAL IS PRESENT AT THE CULVERT REPLACEMENT LOCATIONS. IF THE CULVERT ELEVATION CREATES AN ISSUE WITH INSTALLING THE RELIEF TRENCH, THEN THE RELIEF TRENCH TO BE PLACED ON ONE SIDE OF THE CULVERT.

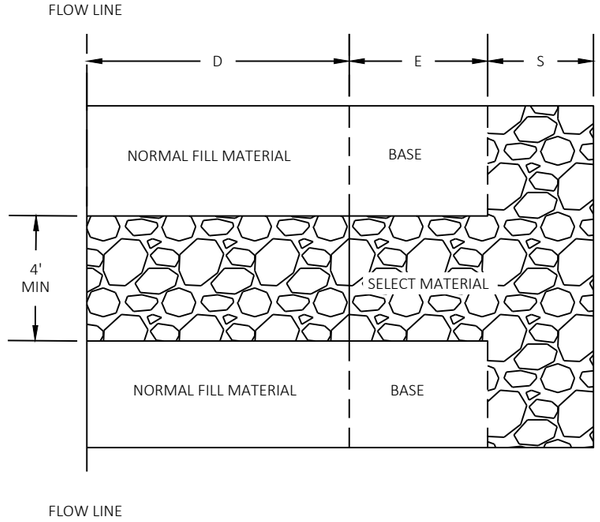
E = 4.35 (A + B - .02S)

D = 6,82C @ 6;1

D = 4,35C @ 4;1

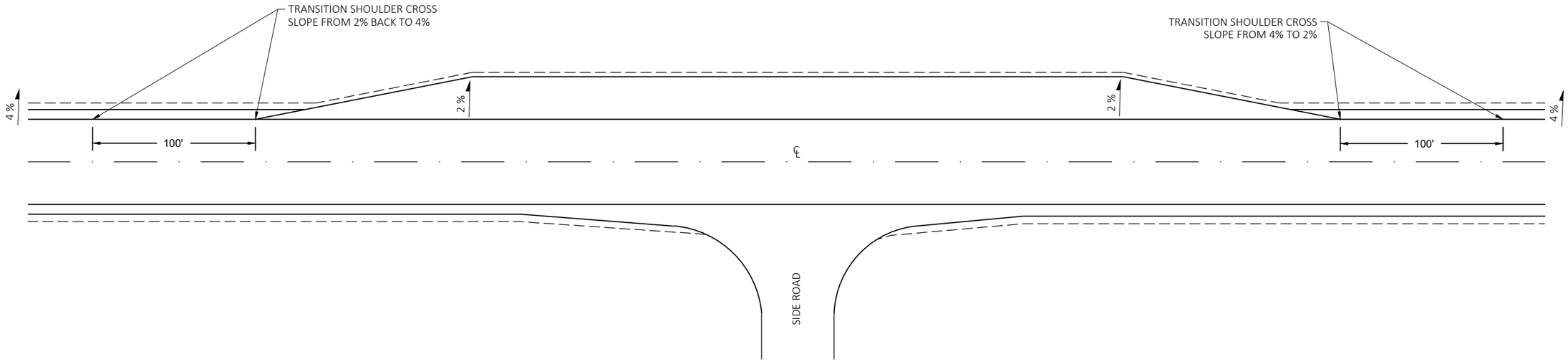


RELIEF TRENCH DETAIL PROFILE VIEW



RELIEF TRENCH DETAIL PLAN VIEW THROUGH SELECT MATERIAL

2



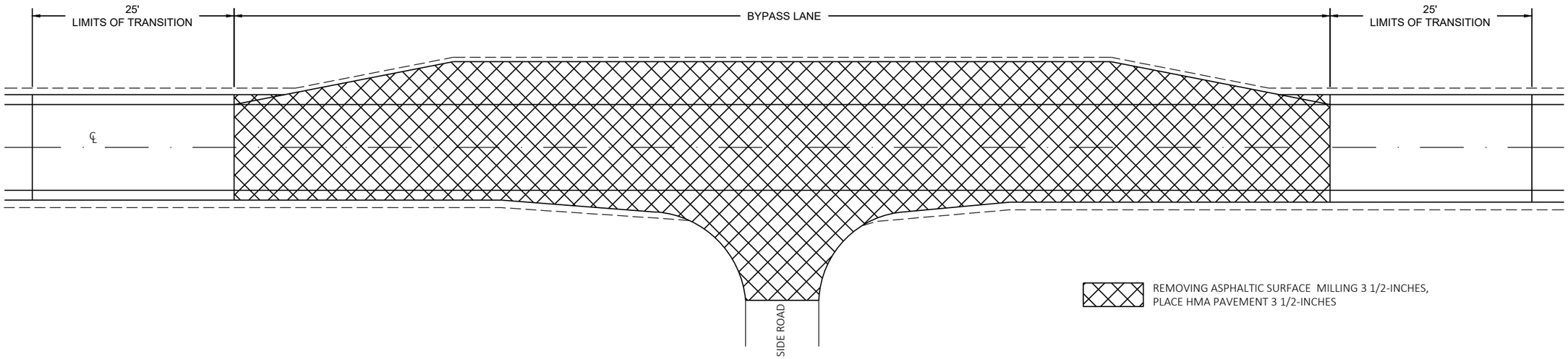
SHOULDER CROSS SLOPE TRANSITION DETAIL AT INTERSECTIONS WITH BYPASS LANE

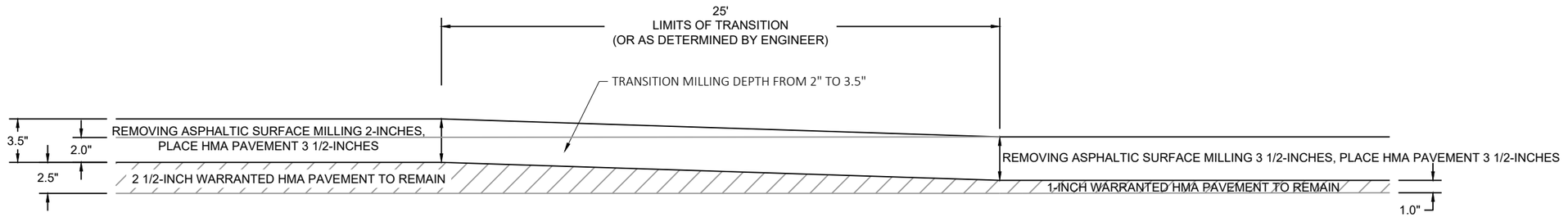
PLEASANT ROAD
CTH A
HOWARD DRIVE
CHIEF KUNO TRAIL

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	CONSTRUCTION DETAILS	SHEET 15	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\021001-CD.DWG
LAYOUT NAME - 07
PLOT DATE : 7/25/2025 8:49 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

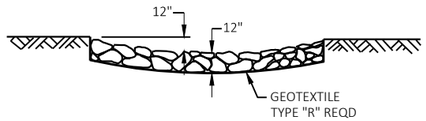




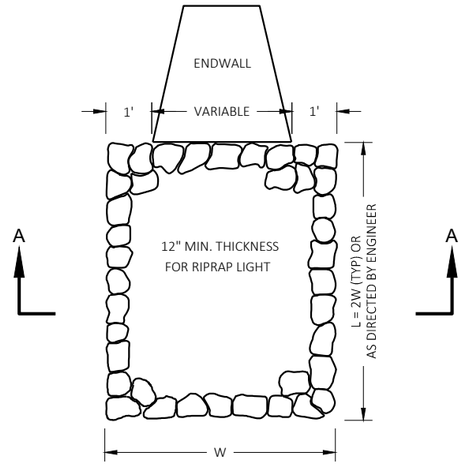
MILLING DEPTH TRANSITION DETAIL AT INTERSECTIONS WITH BYPASS LANE

PLEASANT ROAD
CTH A
HOWARD DRIVE
CHIEF KUNO TRAIL

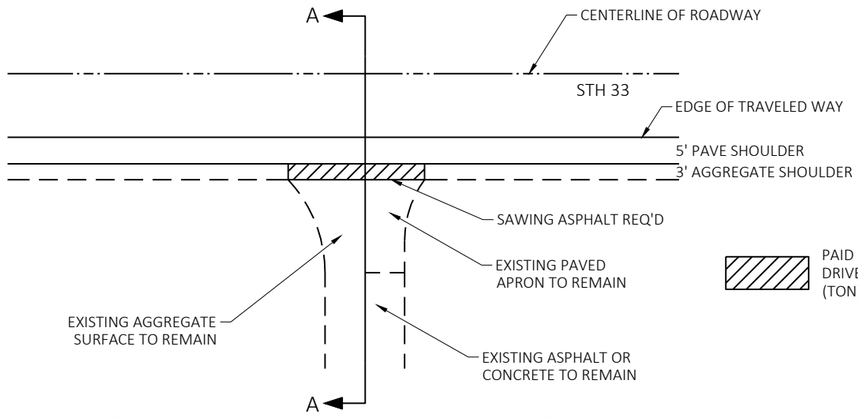
2



SECTION A-A



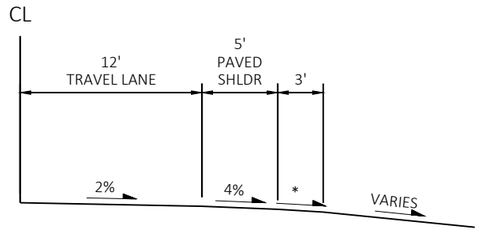
RIPRAP TREATMENT AT CULVERTS



RURAL ENTRANCE WITH AGGREGATE SURFACE

RURAL ENTRANCE WITH ASPHALTIC SURFACE WITH ASPHALTIC APRON

PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (TON)

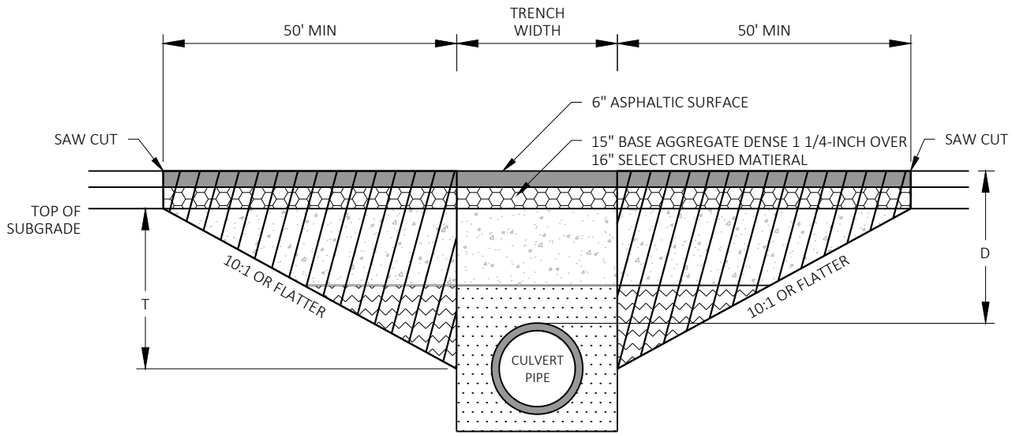


* VARY SLOPE TO MATCH EXISTING DRIVEWAY ELEVATION

SECTION A-A

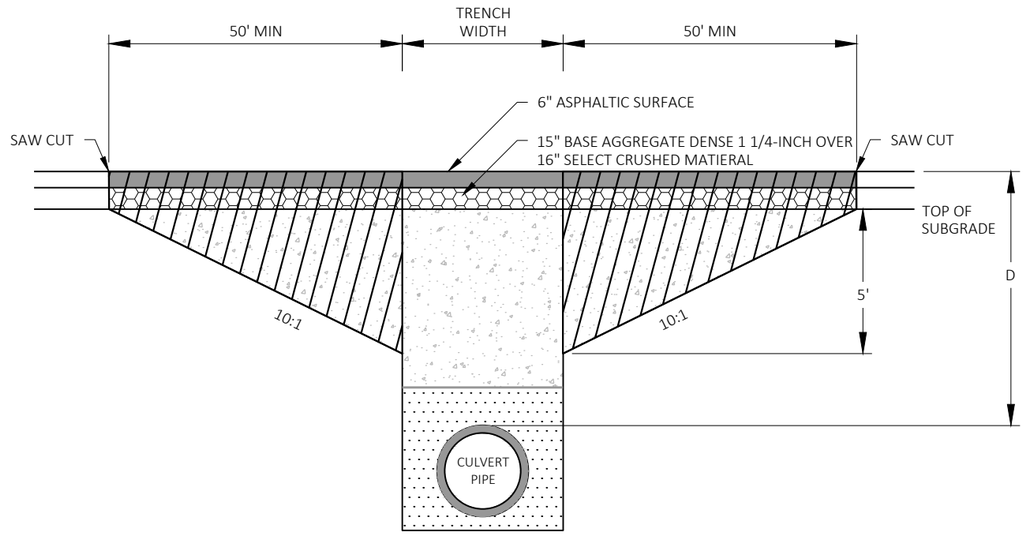
RURAL ENTRANCE DETAIL

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	CONSTRUCTION DETAILS	SHEET 17	E



DEPTH D < 6 FT

TRANSITION CUT DEPTH (T) = THE LESSER OF DEPTH TO CENTER OF PIPE OR 5 FT.
DO NOT EXTEND TRANSITION CUT BELOW HORIZONTAL CENTER OF PIPE.



DEPTH D ≥ 6 FT

2

LEGEND

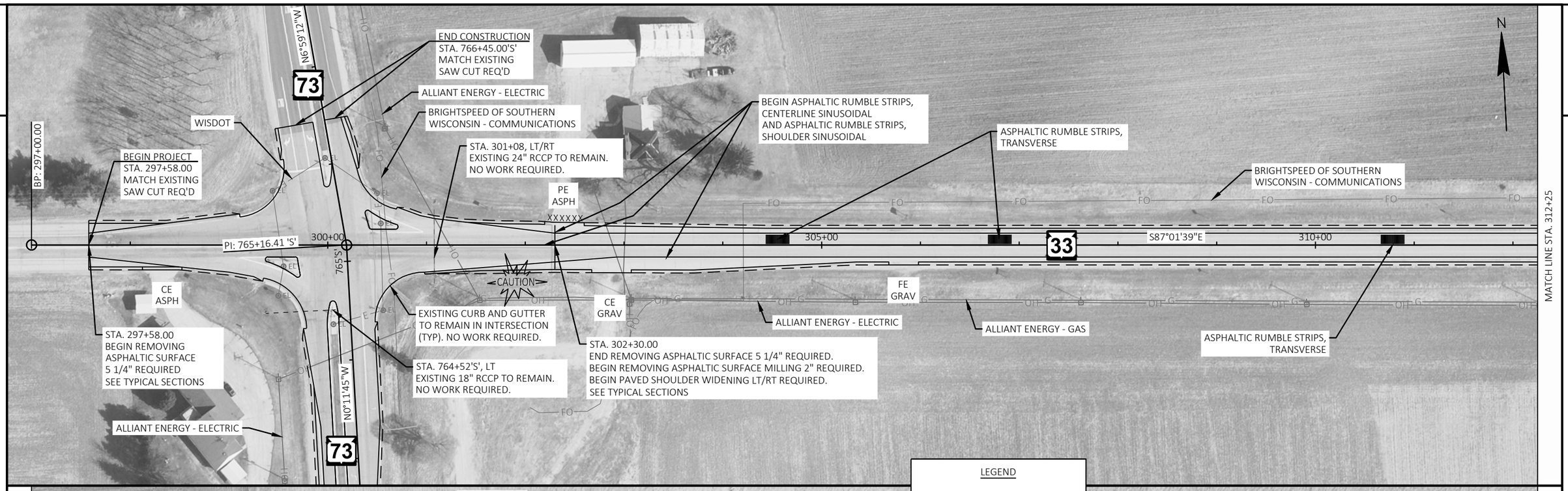
- PROPOSED SURFACE
- PROPOSED BASE
- TRENCH BACKFILL
- TRENCH OR FOUNDATION BACKFILL
- FOUNDATION BACKFILL
- TRANSITION CUT

NOTES

TRANSITION CUT IS PAID AS EXCAVATION COMMON.
TRANSITION CUT WIDTH IS FROM SUBGRADE SHOULDER POINT TO SUBGRADE SHOULDER POINT.
BACKFILL THE TRANSITION CUT AREAS WITH FOUNDATION AND TRENCH BACKFILL AS SPECIFIED IN STANDARD SPEC 520.
PERFORM CULVERT PIPE INSTALLATIONS BEFORE MILLING.

CULVERT PIPE TRANSITION

ROUTE	STA (CL)	DEPTH D (FT)	PIPE DIA (IN)
STH 33	317+92	8.18	CLASS HE-III 24X38-INCH
STH 33	399+81	1.96	CLASS HE-IV 48X76-INCH
STH 33	416+44	2.15	CLASS HE-IV 34X53-INCH
STH 33	427+04	1.85	CLASS HE-IV 34X53-INCH
STH 33	452+78	4.41	CLASS HE-III 34X53-INCH
STH 33	467+10	2.06	CLASS IV 36-INCH
STH 33	474+31	3.36	CLASS IV 30-INCH
STH 33	485+21	2.15	CLASS IV 30-INCH
STH 33	493+11	3.18	CLASS IV 30-INCH
STH 33	504+31	3.12	CLASS HE-IV 38X60-INCH
STH 33	515+68	3.54	CLASS HE-IV 24X38-INCH
STH 33	532+55	2.99	CLASS IV 36-INCH



PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PLAN DETAILS	SHEET 19	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 01

PLOT DATE : 11/17/2025 1:51 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

2

MATCH LINE STA. 327+50

MATCH LINE STA. 342+75

STA. 339+74, LT/RT
EXISTING 36" CMCP TO REMAIN.
NO WORK REQUIRED.

APPROXIMATE
WETLAND
BOUNDARY

STA. 340+08, LT/RT
EXISTING 72" CMCP TO REMAIN.
NO WORK REQUIRED.

ALLIANT ENERGY - ELECTRIC

ALLIANT ENERGY - GAS

BRIGHTSPEED OF SOUTHERN
WISCONSIN - COMMUNICATIONS

PC: 338+13.10

PE
ASPH

R/W

CAUTION

65'

70'

XXXXXX

330+00

S87°01'39"E

335+00

33

340+00

FE
GRAV

PI STA = 341+44.90
Y = 759064.590
X = 806599.429
DELTA = 3°19'00" LT
D = 0°30'00"
T = 331.80'
L = 663.41'
R = 11460.56'
PC STA = 338+13.10
Y = 759081.796
X = 806268.076
PT STA = 344+76.51
Y = 759066.584
X = 806931.223
DB = S87°01'39"E
DA = N89°39'21"E

APPROXIMATE
WETLAND
BOUNDARY

LEGEND

XXXXXXX SAWING ASPHALT

N

PT: 344+76.51

345+00

350+00

N89°39'21"E

EP: 10+00.00 'P'

355+00

N0°21'29"W

PLEASANT ROAD

CE
ASPH

EXISTING CURB AND GUTTER
TO REMAIN IN INTERSECTION
(TYP). NO WORK REQUIRED.

STA. 8+95.00'P'
MATCH EXISTING
SAW CUT REQ'D

MATCH LINE STA. 342+75

MATCH LINE STA. 358+00

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PLAN DETAILS	SHEET 20	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 02

PLOT DATE : 11/17/2025 1:54 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE STA. 358+00

ALLIANT ENERGY - ELECTRIC

ATC - ELECTRIC

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

ALLIANT ENERGY - GAS

PE GRAV

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

PE ASPH

PC: 372+00.11

R/W

70'

65'

R/W

FE GRAV

ALLIANT ENERGY - ELECTRIC

ATC - ELECTRIC

STA. 372+74, LT/RT
EXISTING 42"X60" CMCP TO
REMAIN. NO WORK REQUIRED.

CAUTION

CAUTION

360+00

N89°39'21"E

365+00

33

370+00

N

MATCH LINE STA. 373+25

2

LEGEND

XXXXXXX SAWING ASPHALT

PI STA = 385+63.18
Y = 759091.135
X = 811017.819
DELTA = 20°14'00" LT
D = 0°45'00"
T = 1363.07'
L = 2697.75'
R = 7639.36'
PC STA = 372+00.11
Y = 759082.946
X = 809654.774
PT STA = 398+97.86
Y = 759570.220
X = 812293.922
DB = N89°39'21"E
DA = N69°25'21"E

SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
371+09	-2.00%	-2.00%	NORMAL CROWN
371+63	-2.00%	0.00%	LEVEL CROWN RT
372+19	-2.10%	2.10%	FULL SUPER
398+79	-2.10%	2.10%	FULL SUPER
399+35	-2.00%	0.00%	LEVEL CROWN RT
399+89	-2.00%	-2.00%	NORMAL CROWN

N

MATCH LINE STA. 373+25

FE GRAV

375+00

380+00

FE GRAV

33

385+00

MATCH LINE STA. 388+50

ALLIANT ENERGY - ELECTRIC

ATC - ELECTRIC

CAUTION

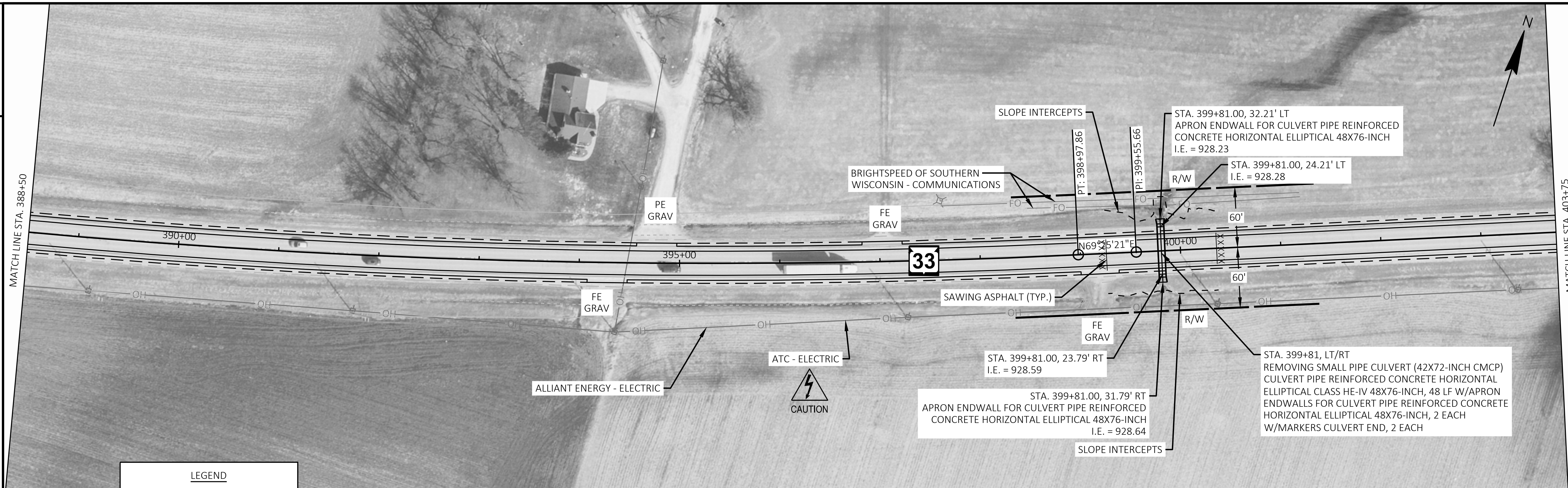
PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PLAN DETAILS	SHEET 21	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 03

PLOT DATE : 7/24/2025 4:16 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2



MATCH LINE STA. 388+50
MATCH LINE STA. 403+75
N
SLOPE INTERCEPTS
STA. 399+81.00, 32.21' LT
APRON ENDWALL FOR CULVERT PIPE REINFORCED
CONCRETE HORIZONTAL ELLIPTICAL 48X76-INCH
I.E. = 928.23
PT: 398+97.86
PI: 399+55.66
BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS
R/W
STA. 399+81.00, 24.21' LT
I.E. = 928.28
PE GRAV
FE GRAV
FO
60'
390+00
395+00
400+00
N69°25'21"E
33
SAWING ASPHALT (TYP.)
FE GRAV
OH
ATC - ELECTRIC
ALLIANT ENERGY - ELECTRIC
CAUTION
STA. 399+81.00, 23.79' RT
I.E. = 928.59
STA. 399+81.00, 31.79' RT
APRON ENDWALL FOR CULVERT PIPE REINFORCED
CONCRETE HORIZONTAL ELLIPTICAL 48X76-INCH
I.E. = 928.64
SLOPE INTERCEPTS
STA. 399+81, LT/RT
REMOVING SMALL PIPE CULVERT (42X72-INCH CMCP)
CULVERT PIPE REINFORCED CONCRETE HORIZONTAL
ELLIPTICAL CLASS HE-IV 48X76-INCH, 48 LF W/APRON
ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE
HORIZONTAL ELLIPTICAL 48X76-INCH, 2 EACH
W/MARKERS CULVERT END, 2 EACH

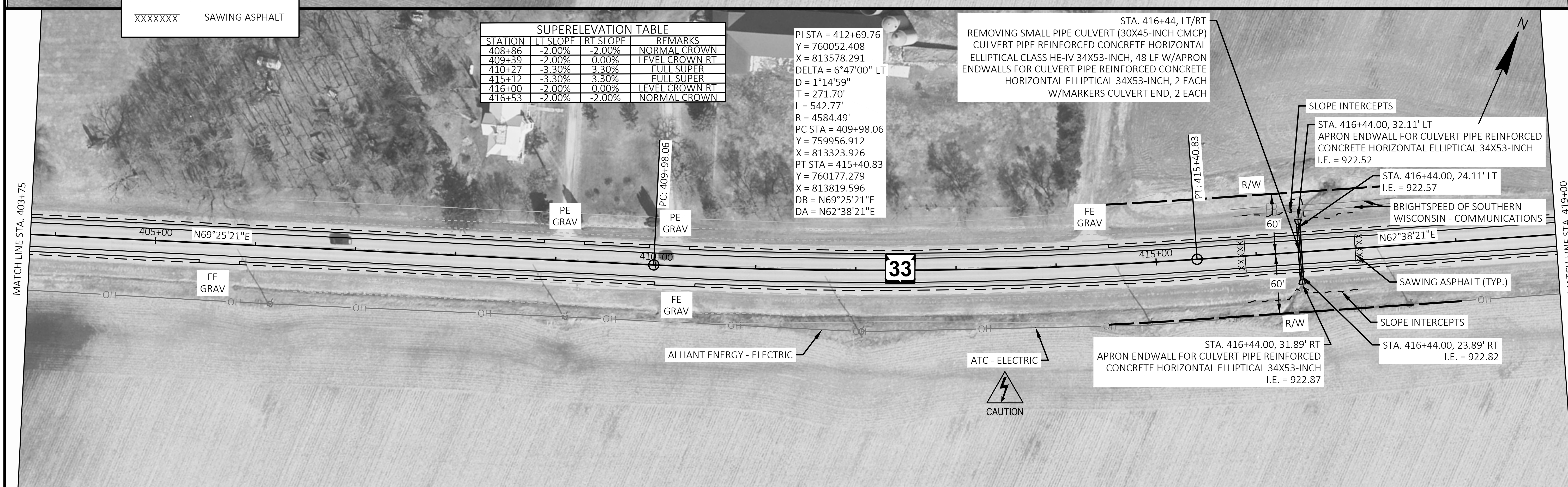
LEGEND

XXXXXXX SAWING ASPHALT

SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
408+86	-2.00%	-2.00%	NORMAL CROWN
409+39	-2.00%	0.00%	LEVEL CROWN RT
410+27	-3.30%	3.30%	FULL SUPER
415+12	-3.30%	3.30%	FULL SUPER
416+00	-2.00%	0.00%	LEVEL CROWN RT
416+53	-2.00%	-2.00%	NORMAL CROWN

PI STA = 412+69.76
Y = 760052.408
X = 813578.291
DELTA = 6°47'00" LT
D = 1°14'59"
T = 271.70'
L = 542.77'
R = 4584.49'
PC STA = 409+98.06
Y = 759956.912
X = 813323.926
PT STA = 415+40.83
Y = 760177.279
X = 813819.596
DB = N69°25'21"E
DA = N62°38'21"E



MATCH LINE STA. 403+75
MATCH LINE STA. 419+00
N
STA. 416+44, LT/RT
REMOVING SMALL PIPE CULVERT (30X45-INCH CMCP)
CULVERT PIPE REINFORCED CONCRETE HORIZONTAL
ELLIPTICAL CLASS HE-IV 34X53-INCH, 48 LF W/APRON
ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE
HORIZONTAL ELLIPTICAL 34X53-INCH, 2 EACH
W/MARKERS CULVERT END, 2 EACH
SLOPE INTERCEPTS
STA. 416+44.00, 32.11' LT
APRON ENDWALL FOR CULVERT PIPE REINFORCED
CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH
I.E. = 922.52
STA. 416+44.00, 24.11' LT
I.E. = 922.57
BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS
PC: 409+98.06
PT: 415+40.83
PE GRAV
FE GRAV
R/W
60'
405+00
410+00
415+00
N69°25'21"E
N62°38'21"E
33
SAWING ASPHALT (TYP.)
SLOPE INTERCEPTS
OH
ALLIANT ENERGY - ELECTRIC
ATC - ELECTRIC
CAUTION
STA. 416+44.00, 31.89' RT
APRON ENDWALL FOR CULVERT PIPE REINFORCED
CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH
I.E. = 922.87
STA. 416+44.00, 23.89' RT
I.E. = 922.82

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PLAN DETAILS	SHEET 22	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 04
PLOT DATE : 11/17/2025 2:01 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

MATCH LINE STA. 419+00

MATCH LINE STA. 434+25

STA. 427+04.00, 31.68' LT
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH
I.E. = 920.27

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

CE GRAV

STA. 427+04.00, 23.68' LT
I.E. = 920.35

R/W

SLOPE INTERCEPTS

FE GRAV

60'

420+00

N62°38'21"E

425+00

33

430+00

60'

SAWING ASPHALT (TYP.)

ALLIANT ENERGY - ELECTRIC

CE GRAV

R/W

STA. 427+04.00, 21.72' RT
I.E. = 920.79

ATC - ELECTRIC

CAUTION

STA. 427+04.00, 29.72' RT
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH
I.E. = 920.87

SLOPE INTERCEPTS

STA. 427+04, LT/RT
REMOVING SMALL PIPE CULVERT (33X48-INCH CMCP)
CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 34X53-INCH, 46 LF W/APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH, 2 EACH
W/MARKERS CULVERT END, 2 EACH

LEGEND

XXXXXXX SAWING ASPHALT

MATCH LINE STA. 434+25

MATCH LINE STA. 449+50

SUPERELEVATION TABLE			
STATION	LT SLOPE	RT SLOPE	REMARKS
443+33	-2.00%	-2.00%	NORMAL CROWN
443+86	0.00%	-2.00%	LEVEL CROWN LT
444+85	3.70%	-3.70%	FULL SUPER
452+26	3.70%	-3.70%	FULL SUPER
453+25	0.00%	-2.00%	LEVEL CROWN LT
453+78	-2.00%	-2.00%	NORMAL CROWN

PC: 444+52.23

PE GRAV

435+00

N62°38'21"E

440+00

33

445+00

PE GRAV

FE GRAV

XXXXXX

PE ASPH

DO NOT DISTURB

ATC - ELECTRIC

CAUTION

ALLIANT ENERGY - ELECTRIC

T 13 N
28
33
R 13 E

PI STA = 448+57.10
Y = 761701.415
X = 816764.873
DELTA = 12°06'00" RT
D = 1°30'00"
T = 404.87'
L = 806.73'
R = 3820.01'
PC STA = 444+52.23
Y = 761515.340
X = 816405.296
PT STA = 452+58.96
Y = 761807.983
X = 817155.466
DB = N62°38'21"E
DA = N74°44'21"E

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PLAN DETAILS	SHEET 23	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 05

PLOT DATE : 8/1/2025 9:24 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE STA. 449+50

APPROXIMATE WETLAND BOUNDARY

STA. 452+78, LT/RT
REMOVING SMALL PIPE CULVERT (30X45-INCH CMCP) CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34X53-INCH, 70 LF W/APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH, 2 EACH W/MARKERS CULVERT END, 2 EACH

STA. 452+78.00, 43.83' LT
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH
I.E. = 911.58

PT: 452+58.96

R/W

SLOPE INTERCEPTS

STA. 452+78.00, 35.83' LT
I.E. = 911.54

60'

450+00

455+00

33

N74°44'21"E

460+00

BP: 10+00.00 'A'

STA. 452+78.00, 33.60' RT
I.E. = 911.21

60'

SAWING ASPHALT (TYP.)

R/W

STA. 452+78.00, 41.60' RT
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH
I.E. = 911.17

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

SLOPE INTERCEPTS

APPROXIMATE WETLAND BOUNDARY

FE GRAV

ALLIANT ENERGY - ELECTRIC

EXISTING CURB AND GUTTER TO REMAIN IN INTERSECTION (TYP). NO WORK REQUIRED.

ALLIANT ENERGY - ELECTRIC

COUNTY A

N23°07'27"W

ALLIANT ENERGY - ELECTRIC

STA. 11+48.00'A'
MATCH EXISTING
SAW CUT REQ'D

ALLIANT ENERGY - GAS

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

CAUTION

PE GRAV

STA. 462+00.00
END PAVED SHOULDER WIDENING LT/RT REQUIRED.
SEE TYPICAL SECTIONS

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

LEGEND

XXXXXXX SAWING ASPHALT

MATCH LINE STA. 464+75

STA. 467+10.00, 31.06' LT
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH
I.E. = 915.26

STA. 467+10, LT/RT
REMOVING SMALL PIPE CULVERT (36-INCH CMCP) CULVERT PIPE REINFORCED CONCRETE CLASS IV 36-INCH, 48 LF W/APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH, 2 EACH W/MARKERS CULVERT END, 2 EACH

STA. 467+10.00, 22.92' LT
I.E. = 915.20

R/W

SLOPE INTERCEPTS

CAUTION

PE GRAV

60'

465+00

470+00

N74°44'21"E

33

475+00

480+00

STA. 467+10.00, 24.36' RT
I.E. = 914.87

SAWING ASPHALT (TYP.)

R/W

SLOPE INTERCEPTS

STA. 467+10.00, 32.50' RT
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH
I.E. = 914.81

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

PE GRAV

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

ALLIANT ENERGY - ELECTRIC

ALLIANT ENERGY - GAS

SLOPE INTERCEPTS

STA. 474+31.00, 30.71' RT
I.E. = 909.61

STA. 474+31.00, 36.85' RT
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH
I.E. = 909.58

STA. 474+31.00, 35.34' LT
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH
I.E. = 909.94

STA. 474+31.00, 29.19' LT
I.E. = 909.91

PE ASPH

SAWING ASPHALT (TYP.)

STA. 474+31, LT/RT
REMOVING SMALL PIPE CULVERT (30-INCH CMCP) CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH, 60 LF W/APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH, 2 EACH W/MARKERS CULVERT END, 2 EACH.

SLOPE INTERCEPTS

PE ASPH

MATCH LINE STA. 480+00

2

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PLAN DETAILS	SHEET 24	E

2

2

MATCH LINE STA. 480+00

MATCH LINE STA. 495+25

HOWARD DRIVE

PE GRAV

STA. 11+21.00'H'
MATCH EXISTING
SAW CUT REQ'D

EXISTING CURB AND GUTTER
TO REMAIN IN INTERSECTION
(TYP). NO WORK REQUIRED.

PE GRAV

N0°56'49"W

BP: 10+00.00 'H'

FE GRAV

BRIGHTSPEED OF SOUTHERN
WISCONSIN - COMMUNICATIONS

STA. 485+21.00, 31.67' LT
APRON ENDWALL FOR CULVERT PIPE
REINFORCED CONCRETE 30-INCH
I.E. = 908.33

ALLIANT ENERGY - GAS

R/W

60'

+00

N74°44'21"E

485+00

STA. 485+21.00, 24.48' RT
I.E. = 908.61

STA. 485+21.00, 30.62' RT
APRON ENDWALL FOR CULVERT PIPE
REINFORCED CONCRETE 30-INCH
I.E. = 908.65

SLOPE INTERCEPTS

APPROXIMATE
WETLAND
BOUNDARY

STA. 485+21.00, 25.52' LT
I.E. = 908.36

SLOPE INTERCEPTS

SAWING ASPHALT (TYP.)

STA. 485+21, LT/RT
REMOVING SMALL PIPE CULVERT (30-INCH CMCP)
CULVERT PIPE REINFORCED CONCRETE CLASS IV
30-INCH, 50 LF W/APRON ENDWALL FOR CULVERT
PIPE REINFORCED CONCRETE 30-INCH, 2 EACH
W/MARKERS CULVERT END, 2 EACH

PC: 488+50.86

FE GRAV

490+00

33

ALLIANT ENERGY - ELECTRIC

PI STA = 493+88.41
Y = 762894.914
X = 821139.301
DELTA = 8°03'00" LT
D = 0°45'00"
T = 537.55'
L = 1073.33'
R = 7639.42'
PC STA = 488+50.86
Y = 762753.423
X = 820620.706
PT STA = 499+24.19
Y = 763107.633
X = 821632.971
DB = N74°44'21"E
DA = N66°41'21"E

SLOPE INTERCEPTS

R/W

CAUTION

60'

STA. 493+11.00, 36.50' LT
APRON ENDWALLS FOR CULVERT PIPE
REINFORCED CONCRETE 30-INCH
I.E. = 903.22

STA. 493+11.00, 30.35' LT
I.E. = 903.28

495+00

SAWING ASPHALT (TYP.)

PE ASPH

BRIGHTSPEED OF SOUTHERN
WISCONSIN - COMMUNICATIONS

SLOPE INTERCEPTS

STA. 493+11.00, 31.64' RT
I.E. = 903.83

STA. 493+11, LT/RT
REMOVING SMALL PIPE CULVERT (30-INCH CMCP)
CULVERT PIPE REINFORCED CONCRETE CLASS IV
30-INCH, 62 LF W/ APRON ENDWALLS FOR CULVERT
PIPE REINFORCED CONCRETE 30-INCH, 2 EACH
W/MARKERS CULVERT END, 2 EACH

STA. 493+11.00, 37.79' RT
APRON ENDWALLS FOR CULVERT PIPE
REINFORCED CONCRETE 30-INCH
I.E. = 903.89

SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
487+60	-2.00%	-2.00%	NORMAL CROWN
488+14	-2.00%	0.00%	LEVEL CROWN RT
488+70	-2.10%	2.10%	FULL SUPER
499+06	-2.10%	2.10%	FULL SUPER
499+62	-2.00%	0.00%	LEVEL CROWN RT
500+15	-2.00%	-2.00%	NORMAL CROWN

LEGEND

XXXXXXX SAWING ASPHALT

STA. 11+00.00'C'
MATCH EXISTING
SAW CUT REQ'D

BRIGHTSPEED OF SOUTHERN
WISCONSIN - COMMUNICATIONS

ALLIANT ENERGY - ELECTRIC

CHIEF KUNO TRAIL

EXISTING CURB AND GUTTER
TO REMAIN IN INTERSECTION
(TYP). NO WORK REQUIRED.

PE GRAV

N13°33'35"W

PT: 499+24.19

ALLIANT ENERGY - ELECTRIC

ALLIANT ENERGY - GAS

BRIGHTSPEED OF SOUTHERN
WISCONSIN - COMMUNICATIONS

N66°41'21"E

500+00

BP: 10+00.00 'C'

PE ASPH

BRIGHTSPEED OF SOUTHERN
WISCONSIN - COMMUNICATIONS

APPROXIMATE
WETLAND
BOUNDARY

STA. 504+31, LT/RT
REMOVING SMALL PIPE CULVERT (36X57-INCH CMCP)
CULVERT PIPE REINFORCED CONCRETE HORIZONTAL
ELLIPTICAL CLASS HE-IV 38X60-INCH, 54 LF W/APRON
ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE
HORIZONTAL ELLIPTICAL 38X60-INCH, 2 EACH
W/MARKERS CULVERT END, 2 EACH

STA. 504+31.00, 35.45' LT
APRON ENDWALLS FOR CULVERT PIPE REINFORCED
CONCRETE HORIZONTAL ELLIPTICAL 38X60-INCH
I.E. = 897.83

STA. 504+31.00, 27.45' LT
I.E. = 897.88

R/W

SLOPE INTERCEPTS

CAUTION

60'

SUPERELEVATION TABLE

STATION	LT SLOPE	RT SLOPE	REMARKS
505+03	-2.00%	-2.00%	NORMAL CROWN
505+57	0.00%	-2.00%	LEVEL CROWN LT
506+93	5.10%	-5.10%	FULL SUPER
517+39	5.10%	-5.10%	FULL SUPER
518+75	0.00%	-2.00%	LEVEL CROWN LT
519+29	-2.00%	-2.00%	NORMAL CROWN

CE ASPH

CE ASPH

CE GRAV

505+00

510+00

SAWING ASPHALT (TYP.)

STA. 505+03.00
BEGIN SUPERELEVATION
SEE TYPICAL SECTIONS

FE GRAV

R/W

STA. 504+31.00, 26.55' RT
I.E. = 898.15

SLOPE INTERCEPTS

BRIGHTSPEED OF SOUTHERN
WISCONSIN - COMMUNICATIONS

PC: 506+47.99

APPROXIMATE
WETLAND
BOUNDARY

STA. 504+31.00, 34.55' RT
APRON ENDWALLS FOR CULVERT PIPE REINFORCED
CONCRETE HORIZONTAL ELLIPTICAL 38X60-INCH
I.E. = 898.19

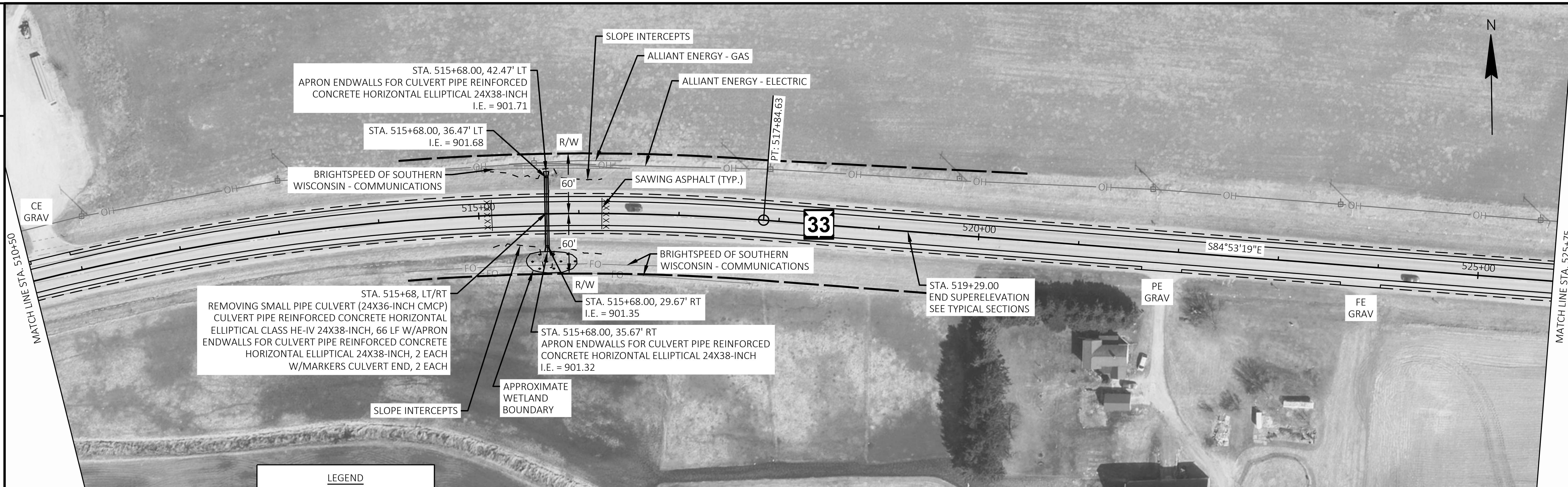
PI STA = 512+28.26
Y = 763623.679
X = 822830.592
DELTA = 28°25'20" RT
D = 2°30'02"
T = 580.27'
L = 1136.64'
R = 2291.34'
PC STA = 506+47.99
Y = 763394.055
X = 822297.688
PT STA = 517+84.63
Y = 763571.982
X = 823408.554
DB = N66°41'21"E
DA = S84°53'19"E

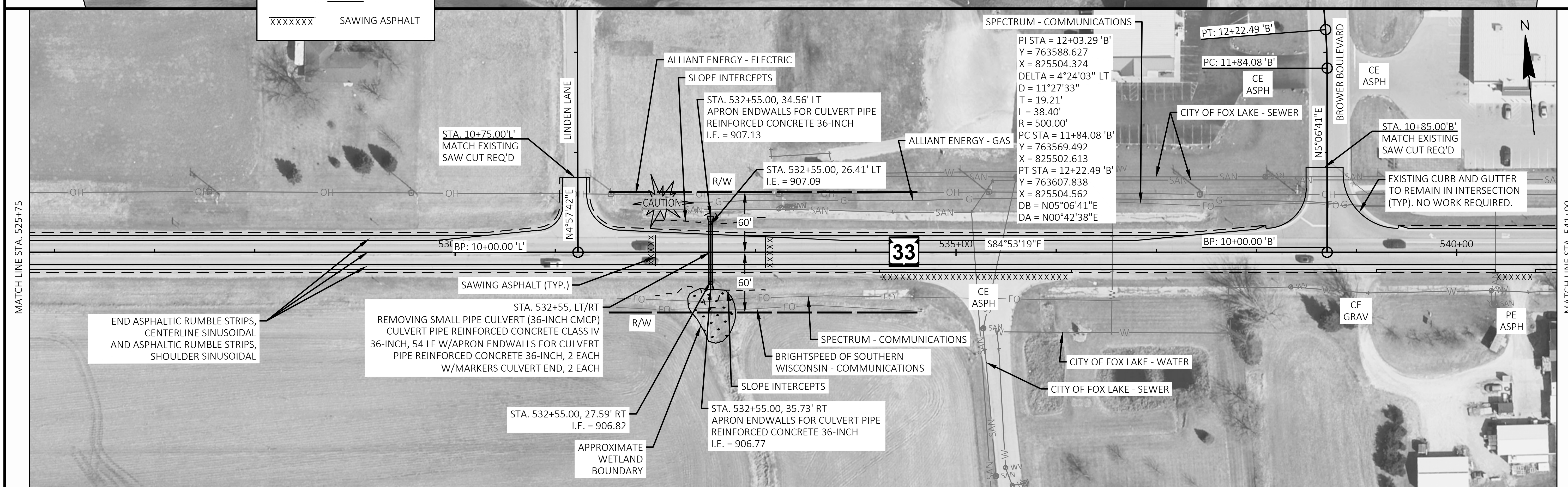
PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PLAN DETAILS	SHEET 25	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 07

PLOT DATE : 11/17/2025 2:31 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

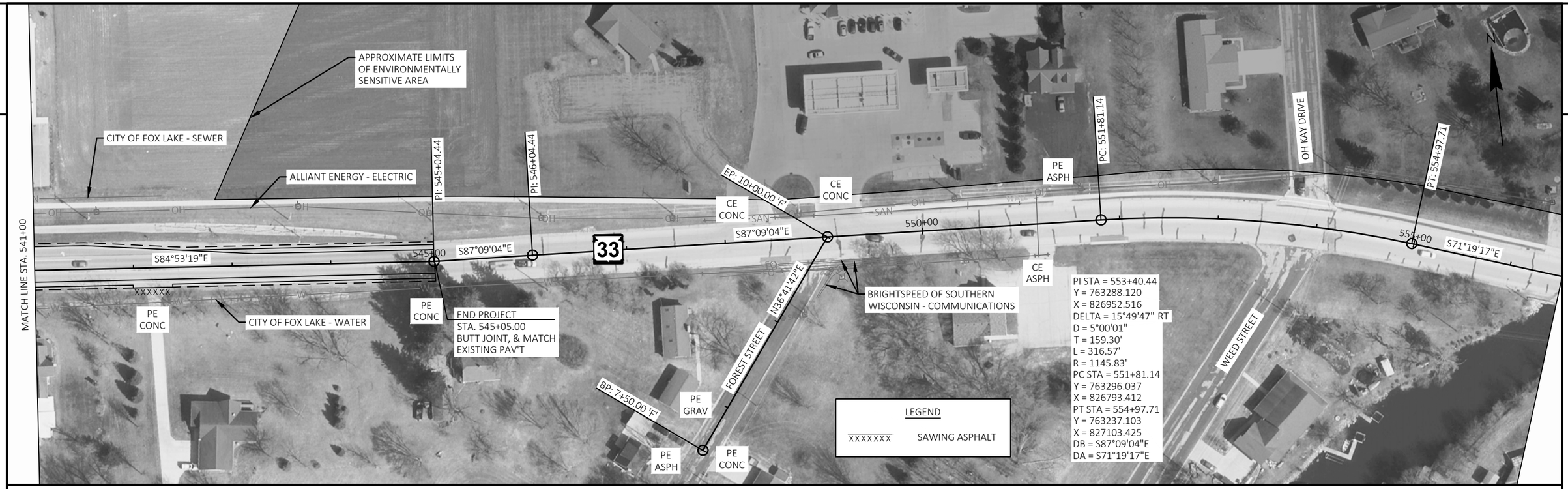
WISDOT/CADDS SHEET 44


2
2
N
SLOPE INTERCEPTS
ALLIANT ENERGY - GAS
ALLIANT ENERGY - ELECTRIC
STA. 515+68.00, 42.47' LT
APRON ENDWALLS FOR CULVERT PIPE REINFORCED
CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH
I.E. = 901.71
PT: 517+84.63
STA. 515+68.00, 36.47' LT
I.E. = 901.68
R/W
BRIGHTSPEED OF SOUTHERN
WISCONSIN - COMMUNICATIONS
60'
SAWING ASPHALT (TYP.)
CE
GRAV
515+00
33
520+00
S84°53'19"E
525+00
60'
BRIGHTSPEED OF SOUTHERN
WISCONSIN - COMMUNICATIONS
MATCH LINE STA. 510+50
MATCH LINE STA. 525+75
R/W
STA. 515+68, LT/RT
REMOVING SMALL PIPE CULVERT (24X36-INCH CMCP)
CULVERT PIPE REINFORCED CONCRETE HORIZONTAL
ELLIPTICAL CLASS HE-IV 24X38-INCH, 66 LF W/APRON
ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE
HORIZONTAL ELLIPTICAL 24X38-INCH, 2 EACH
W/MARKERS CULVERT END, 2 EACH
STA. 515+68.00, 29.67' RT
I.E. = 901.35
STA. 519+29.00
END SUPERELEVATION
SEE TYPICAL SECTIONS
PE
GRAV
FE
GRAV
STA. 515+68.00, 35.67' RT
APRON ENDWALLS FOR CULVERT PIPE REINFORCED
CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH
I.E. = 901.32
APPROXIMATE
WETLAND
BOUNDARY
SLOPE INTERCEPTS
LEGEND
XXXXXXX SAWING ASPHALT


SPECTRUM - COMMUNICATIONS
PI STA = 12+03.29 'B'
Y = 763588.627
X = 825504.324
DELTA = 4°24'03" LT
D = 11°27'33"
T = 19.21'
L = 38.40'
R = 500.00'
PC STA = 11+84.08 'B'
Y = 763569.492
X = 825502.613
PT STA = 12+22.49 'B'
Y = 763607.838
X = 825504.562
DB = N05°06'41"E
DA = N00°42'38"E
PT: 12+22.49 'B'
PC: 11+84.08 'B'
BROWER BOULEVARD
N
CE
ASPH
CE
ASPH
ALLIANT ENERGY - ELECTRIC
SLOPE INTERCEPTS
LINDEN LANE
STA. 532+55.00, 34.56' LT
APRON ENDWALLS FOR CULVERT PIPE
REINFORCED CONCRETE 36-INCH
I.E. = 907.13
CITY OF FOX LAKE - SEWER
STA. 10+75.00'L'
MATCH EXISTING
SAW CUT REQ'D
ALLIANT ENERGY - GAS
N5°06'41"E
STA. 10+85.00'B'
MATCH EXISTING
SAW CUT REQ'D
STA. 532+55.00, 26.41' LT
I.E. = 907.09
R/W
CAUTION
EXISTING CURB AND GUTTER
TO REMAIN IN INTERSECTION
(TYP). NO WORK REQUIRED.
N4°57'42"E
60'
MATCH LINE STA. 525+75
MATCH LINE STA. 541+00
BP: 10+00.00 'L'
33
535+00
S84°53'19"E
BP: 10+00.00 'B'
540+00
SAWING ASPHALT (TYP.)
60'
CE
ASPH
CE
GRAV
PE
ASPH
END ASPHALTIC RUMBLE STRIPS,
CENTERLINE SINUSOIDAL
AND ASPHALTIC RUMBLE STRIPS,
SHOULDER SINUSOIDAL
STA. 532+55, LT/RT
REMOVING SMALL PIPE CULVERT (36-INCH CMCP)
CULVERT PIPE REINFORCED CONCRETE CLASS IV
36-INCH, 54 LF W/APRON ENDWALLS FOR CULVERT
PIPE REINFORCED CONCRETE 36-INCH, 2 EACH
W/MARKERS CULVERT END, 2 EACH
R/W
SPECTRUM - COMMUNICATIONS
BRIGHTSPEED OF SOUTHERN
WISCONSIN - COMMUNICATIONS
CITY OF FOX LAKE - WATER
SLOPE INTERCEPTS
CITY OF FOX LAKE - SEWER
STA. 532+55.00, 27.59' RT
I.E. = 906.82
STA. 532+55.00, 35.73' RT
APRON ENDWALLS FOR CULVERT PIPE
REINFORCED CONCRETE 36-INCH
I.E. = 906.77
APPROXIMATE
WETLAND
BOUNDARY

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PLAN DETAILS	SHEET 26	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 08
PLOT DATE : 11/17/2025 2:41 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



2

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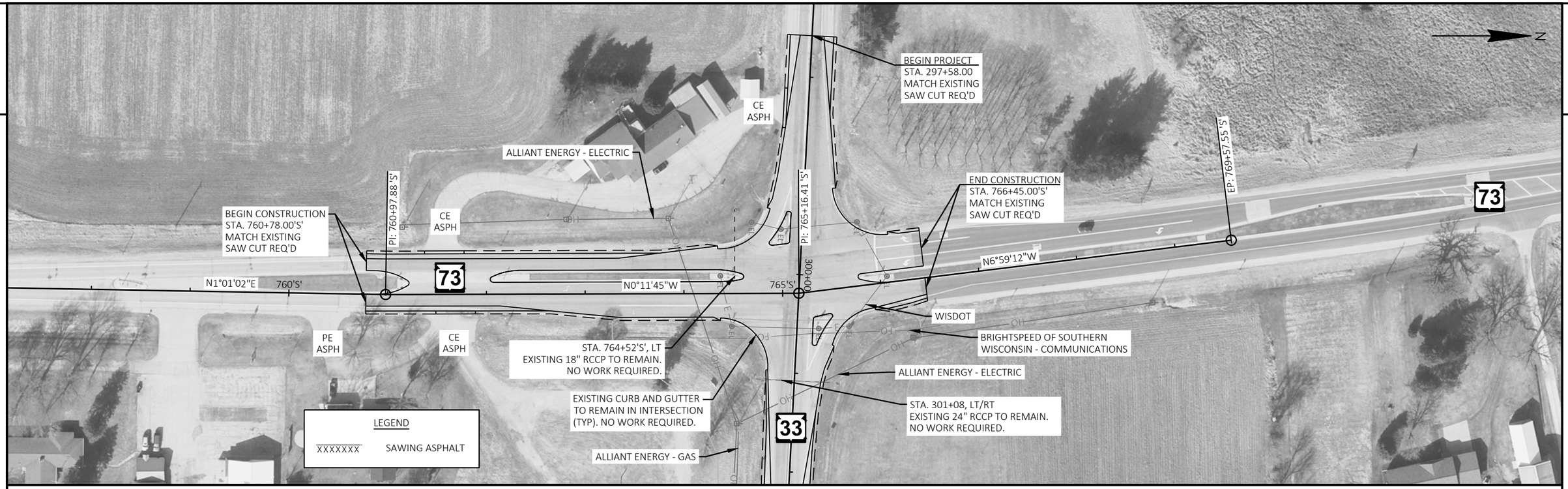

2

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2

APPROXIMATE WETLAND IMPACTS
WETLAND TYPE: M
AREA IMPACTED = 0.001 ACRES

7'W X 6'L
RIPRAP LIGHT
GEOTEXTILE TYPE R

APPROXIMATE WETLAND BOUNDARY

R/W

ALLIANT ENERGY - ELECTRIC

ALLIANT ENERGY - GAS

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

SLOPE INTERCEPTS

FE GRAV

315+00

STH 33

320+00

PE GRAV

SLOPE INTERCEPTS

R/W

N

LEGEND

- EROSION MAT CLASS I TYPE A
- RIPRAP LIGHT
- WETLAND IMPACTS
- SILT FENCE
- CULVERT PIPE CHECK
- DIRECTION OF FLOW
- SLOPE INTERCEPT

10'W X 20'L
RIPRAP LIGHT
GEOTEXTILE TYPE R

R/W

SLOPE INTERCEPT

FE GRAV

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

PT: 398+97.86

PI: 399+55.66

400+00

STH 33

ALLIANT ENERGY - ELECTRIC

ATC - ELECTRIC

FE GRAV

SLOPE INTERCEPT

R/W

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	EROSION CONTROL	SHEET 29	E

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	EROSION CONTROL	SHEET 30	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 02
PLOT DATE : 7/24/2025 4:04 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : ###########
WISDOT/CADDS SHEET 44

2

APPROXIMATE WETLAND BOUNDARY

APPROXIMATE WETLAND IMPACTS
WETLAND TYPE: M
AREA IMPACTED = 0.002 ACRES

R/W

SLOPE INTERCEPTS

PT: 452+58.96

STH 33

450+00

455+00

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

CAUTION

8.5'W X 14' L
RIPRAP LIGHT
GEOTEXTILE TYPE R

APPROXIMATE WETLAND BOUNDARY

APPROXIMATE WETLAND IMPACTS
WETLAND TYPE: M
AREA IMPACTED = 0.004 ACRES

ALLIANT ENERGY - ELECTRIC

LEGEND

- EROSION MAT CLASS I TYPE A
- RIPRAP LIGHT
- WETLAND IMPACTS
- SILT FENCE
- CULVERT PIPE CHECK
- DIRECTION OF FLOW
- SLOPE INTERCEPT

ALLIANT ENERGY - GAS

PE
GRAV

465+00

470+00

8'W X 16'L
RIPRAP LIGHT
GEOTEXTILE TYPE R

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	EROSION CONTROL	SHEET 31	E

2

2

N

R/W

ALLIANT ENERGY - ELECTRIC

SLOPE INTERCEPTS

CAUTION

ALLIANT ENERGY - GAS

"E

STH 33

475+00

R/W

7'W X 14'L
RIPRAP LIGHT
GEOTEXTILE TYPE R

SLOPE INTERCEPTS

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

LEGEND

- EROSION MAT CLASS I TYPE A
- RIPRAP LIGHT
- WETLAND IMPACTS
- SILT FENCE
- CULVERT PIPE CHECK
- DIRECTION OF FLOW
- SLOPE INTERCEPT

ALLIANT ENERGY - ELECTRIC

R/W

CAUTION

7'W X 14'L
RIPRAP LIGHT
GEOTEXTILE TYPE R

APPROXIMATE WETLAND BOUNDARY

ALLIANT ENERGY - GAS

SLOPE INTERCEPTS

FE
GRAV

PC: 488+50.86

STH 33

485+00

BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS

SLOPE INTERCEPTS

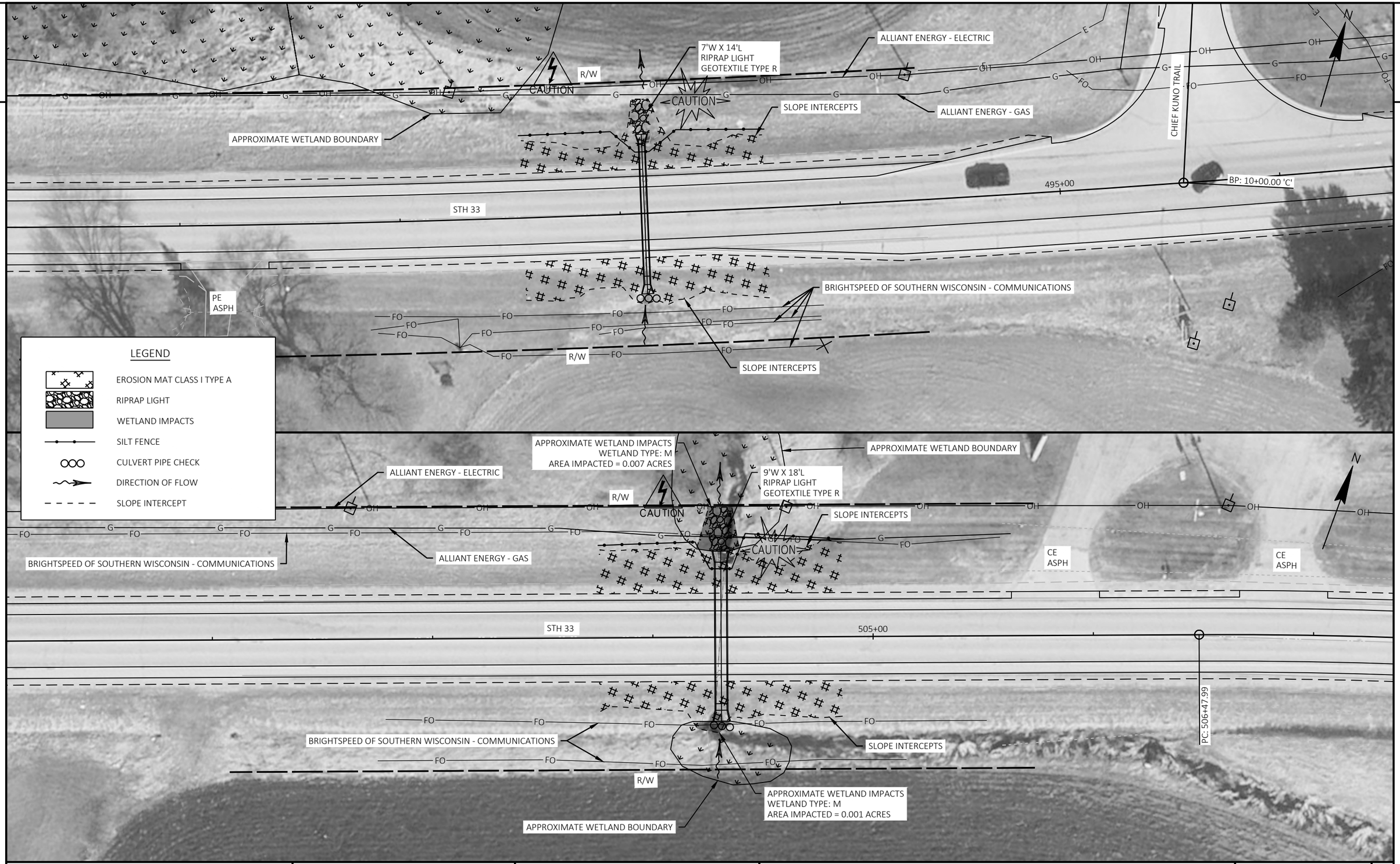
R/W

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	EROSION CONTROL	SHEET 32	E

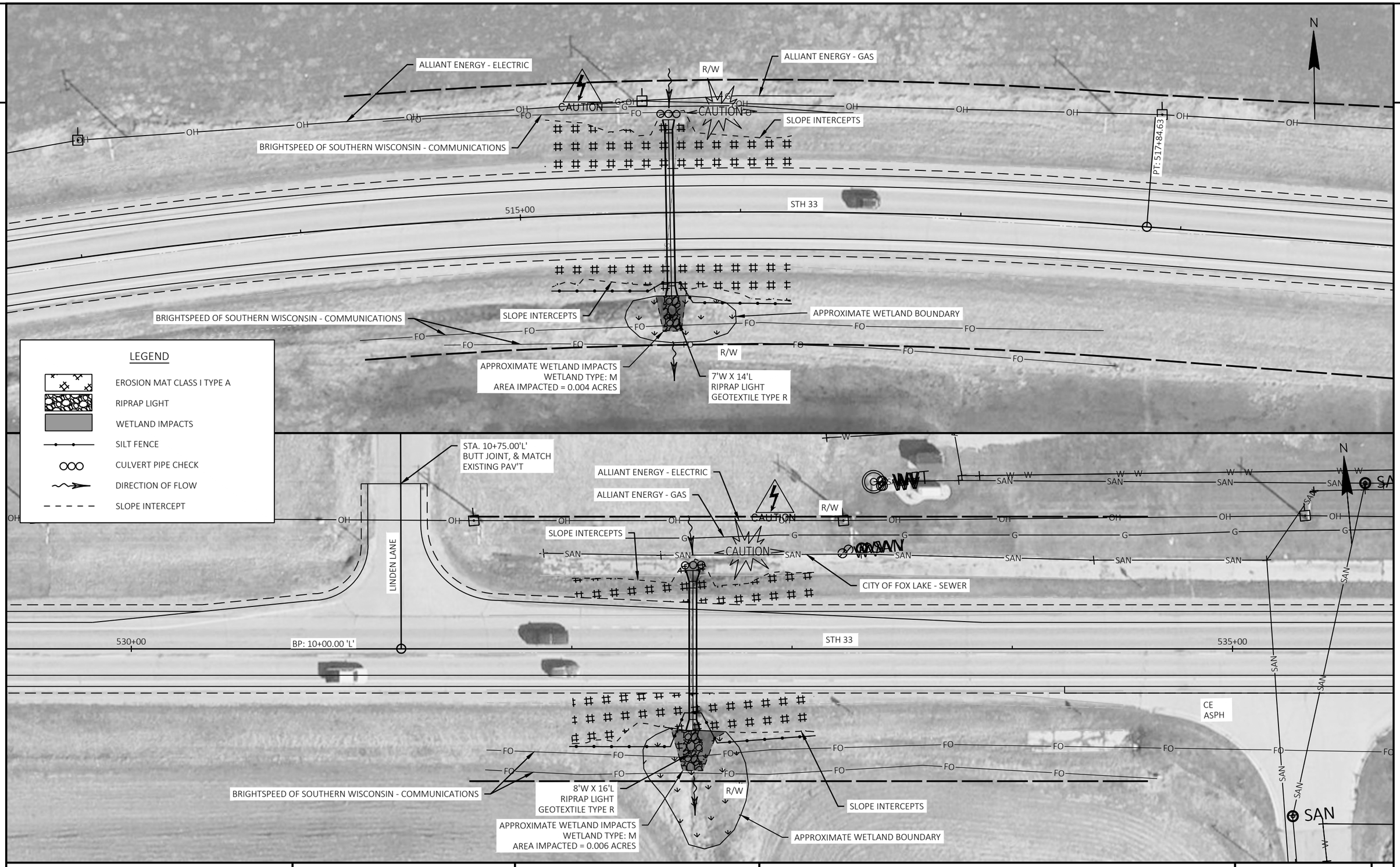
FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 04

PLOT DATE : 7/24/2025 4:07 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44


7'W X 14'L
RIPRAP LIGHT
GEOTEXTILE TYPE R
ALLIANT ENERGY - ELECTRIC
ALLIANT ENERGY - GAS
SLOPE INTERCEPTS
APPROXIMATE WETLAND BOUNDARY
R/W
CAUTION
CHIEF KUNO TRAIL
BP: 10+00.00 'C'
495+00
STH 33
PE
ASPH
BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS
SLOPE INTERCEPTS
LEGEND
EROSION MAT CLASS I TYPE A
RIPRAP LIGHT
WETLAND IMPACTS
SILT FENCE
CULVERT PIPE CHECK
DIRECTION OF FLOW
SLOPE INTERCEPT
APPROXIMATE WETLAND IMPACTS
WETLAND TYPE: M
AREA IMPACTED = 0.007 ACRES
APPROXIMATE WETLAND BOUNDARY
9'W X 18'L
RIPRAP LIGHT
GEOTEXTILE TYPE R
ALLIANT ENERGY - ELECTRIC
SLOPE INTERCEPTS
ALLIANT ENERGY - GAS
BRIGHTSPEED OF SOUTHERN WISCONSIN - COMMUNICATIONS
CE
ASPH
CE
ASPH
STH 33
505+00
PC: 506+47.99
SLOPE INTERCEPTS
APPROXIMATE WETLAND IMPACTS
WETLAND TYPE: M
AREA IMPACTED = 0.001 ACRES
APPROXIMATE WETLAND BOUNDARY

2



PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	EROSION CONTROL	SHEET 34	E

2

MARKING WORD EPOXY (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)

MARKING ISLAND NOSE EPOXY (YELLOW)

BEGIN PROJECT STA. 297+58.00

BP: 297+00.00

STH 73

767+00 'S

766+00 'S

PI: 765+16.41 'S'

765+00 'S

300+00

MARKING ARROW EPOXY (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

MARKING CURB EPOXY (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) DOUBLE SOLID

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

305+00

STH 33

310+00

N

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) DOUBLE SOLID

MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)

MARKING CURB EPOXY (YELLOW)

MARKING ISLAND NOSE EPOXY (YELLOW)

MARKING CURB EPOXY (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING STOP LINE EPOXY, 18-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)

MARKING ARROW EPOXY (WHITE)

MARKING CURB EPOXY (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MATCH LINE 312+25

2

MATCH LINE 312+25

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

315+00

320+00

STH 33

325+00

N

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MATCH LINE 327+50

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PAVEMENT MARKING	SHEET 35	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 01

PLOT DATE : 11/19/2025 9:23 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE 327+50

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

330+00

335+00

STH 33

PC: 338+13.10

340+00

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

N

MATCH LINE 342+75

2

MATCH LINE 342+75

PT: 344+76.51

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) DOUBLE SOLID

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

345+00

350+00

STH 33

EP: 10+00.00 PI

355+00

N

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE), 3' LINE, 9' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

PLEASANT ROAD

MATCH LINE 358+00

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PAVEMENT MARKING	SHEET 36	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 02

PLOT DATE : 11/19/2025 9:26 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

MATCH LINE 358+00

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

PC: 372+00.11

N

360+00

365+00

STH 33

370+00

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

MATCH LINE 373+25

2

MATCH LINE 373+25

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) DOUBLE SOLID

N

375+00

380+00

385+00

STH 33

MATCH LINE 388+50

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PAVEMENT MARKING	SHEET 37	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 03

PLOT DATE : 7/25/2025 9:25 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

MATCH LINE 388+50

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) DOUBLE SOLID

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

390+00

395+00

400+00

PT: 398+97.86

PI: 399+55.66

STH 33

N

MATCH LINE 403+75

2

MATCH LINE 403+75

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

405+00

410+00

415+00

PC: 409+98.06

PT: 415+40.83

STH 33

N

MATCH LINE 419+00

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PAVEMENT MARKING	SHEET 38	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 04

PLOT DATE : 7/25/2025 10:05 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

MATCH LINE 419+00

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

420+00

425+00

STH 33

N

2

MATCH LINE 434+25

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

PC: 444+52.23

435+00

440+00

445+00

STH 33

N

MATCH LINE 434+25

MATCH LINE 449+50

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PAVEMENT MARKING	SHEET 39	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 05

PLOT DATE : 7/25/2025 10:10 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE 449+50

PT: 452+58.96

450+00

STH 33

455+00

460+00

BP: 10+00.00 A

CTH A

N

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) DOUBLE SOLID

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) 12.5' LINE, 37.5' SKIP

MARKING LINE EPOXY 6-INCH (YELLOW) DOUBLE SOLID

MARKING LINE EPOXY 10-INCH (WHITE)

MARKING STOP LINE EPOXY 18-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)

MATCH LINE 464+75

2

MATCH LINE 464+75

465+00

470+00

STH 33

BP: 10+00.00 H

480

N

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) 12.5' LINE, 37.5' SKIP

MATCH LINE 480+00

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PAVEMENT MARKING	SHEET 40	E

2

2

MATCH LINE 480+00

HOWARD DRIVE

MARKING LINE EPOXY 6-INCH (WHITE)

MARKING LINE EPOXY 6-INCH (YELLOW)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) 3' LINE, 9' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

PC: 488+50.86

+00

485+00

490+00

STH 33

BP: 19+00.00 'C'

495+00

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) 12.5' LINE, 37.5' SKIP

MATCH LINE 495+25

N

MATCH LINE 495+25

CHIEF KUNO DRIVE

MARKING LINE EPOXY 6-INCH (WHITE)

MARKING LINE EPOXY 6-INCH (YELLOW) DOUBLE SOLID

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) 3' LINE, 9' SKIP

PT: 499+24.19

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) DOUBLE SOLID

PC: 506+47.99

500+00

STH 33

510+00

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) 12.5' LINE, 37.5' SKIP

MATCH LINE 510+50

N

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PAVEMENT MARKING	SHEET 41	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 07

PLOT DATE : 11/19/2025 9:31 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

2

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) DOUBLE SOLID

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

PT: 517+84.63

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

515+00

520+00

525+00

STH 33

N

MATCH LINE 510+50

MATCH LINE 525+75

MATCH LINE 525+75

LINDEN LANE

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) 3' LINE, 9' SKIP

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

530+00

BP: 10+00.00 'L'

STH 33

535+00

PT: 12+22.49 'B'

PC: 11+84.08 'B'

MARKING LINE EPOXY 6-INCH (YELLOW) DOUBLE SOLID

MARKING STOP LINE EPOXY, 18-INCH (WHITE)

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW) 12.5' LINE, 37.5' SKIP

BROWER BOULEVARD

N

MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE)

BP: 10+00.00 'B'

540+00

MARKING LINE GROOVED WET REF EPOXY 6-INCH (YELLOW)

MARKING WORD EPOXY,TYP. (WHITE)

MARKING LINE GROOVED WET REF EPOXY 10-INCH (WHITE)

MARKING ARROW EPOXY,TYP. (WHITE)

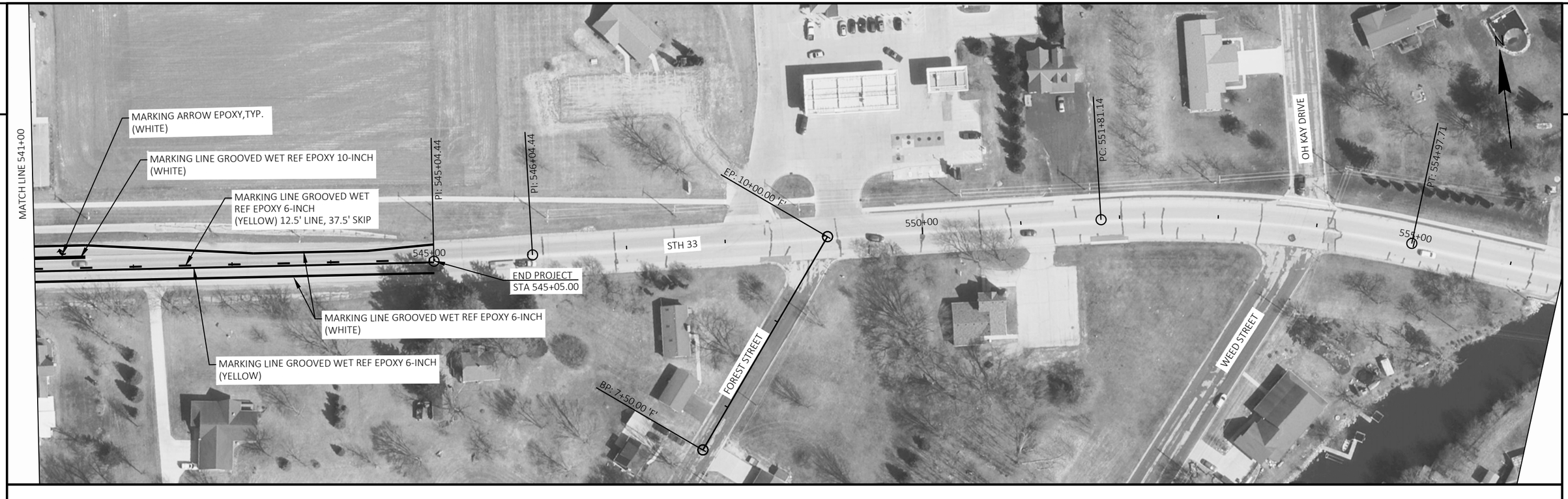
MATCH LINE 541+00

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PAVEMENT MARKING	SHEET 42	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 08

PLOT DATE : 8/29/2025 9:20 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



2

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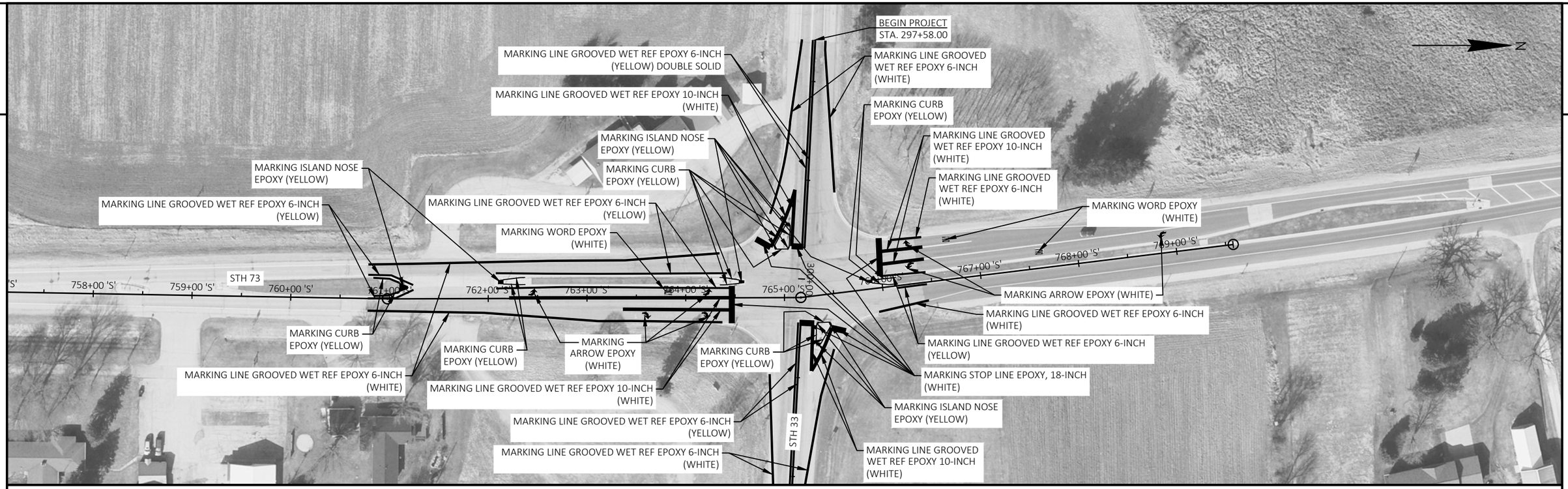

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PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PAVEMENT MARKING	SHEET 44	E

GENERAL NOTES:
1. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PLACED SEVEN DAYS PRIOR TO CONSTRUCTION BEGINNING.
2. COORDINATE THE APPROVAL OF PCMS MESSAGES WITH WISDOT.

LEGEND

WORK ZONE

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

PCMS MESSAGES		
PCMS	FRAME 1	FRAME 2
SIGN 1	HWY 33 CLOSED	STARTING XX/XX/XX
SIGN 2	HWY 33 CLOSED	STARTING XX/XX/XX
SIGN 3	HWY 73 ROAD WORK	STARTING XX/XX/XX
SIGN 4	HWY 73 ROAD WORK	STARTING XX/XX/XX

SIGN 3
PLACE PRIOR TO STH 73 CONSTRUCTION BEGINNING
(SEE SIGN 1 MESSAGE FOR MORE INFORMATION)

SIGN 1
PLACE PRIOR TO STH 33 CONSTRUCTION BEGINNING
(SEE SIGN 1 MESSAGE FOR MORE INFORMATION)

PCMS

PCMS

73

300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450

33

BEGIN PROJECT
STA 297+58.00

760'

73

PCMS

SIGN 4
PLACE PRIOR TO STH 73 CONSTRUCTION BEGINNING
(SEE SIGN 1 MESSAGE FOR MORE INFORMATION)

PLEASANT ROAD

33

N

COUNTY A

HOWARD DRIVE

CHIEF KUNO TRAIL

410 420 430 440 450 460 470 480 490 500 510 520

33

LINDEN LANE

BROWER BLVD

530 540 550 560

PCMS

FOREST STREET

END PROJECT
STA 545+05.00

SIGN 2
PLACE PRIOR TO STH 33 CONSTRUCTION BEGINNING
(SEE SIGN 1 MESSAGE FOR MORE INFORMATION)

N

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	PORTABLE CHANGEABLE MESSAGE SIGN OVERVIEW	SHEET 45	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\025000-TC.DWG
LAYOUT NAME - 01
PLOT DATE : 7/11/2025 2:19 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:1000 FT
WISDOT/CADDS SHEET 44

GENERAL NOTES:

1. CULVERT REPLACEMENTS SHALL BE COMPLETED WHILE THE STH 33 DETOUR IS IN PLACE. SEE DETOUR PLAN FOR MORE INFORMATION.
2. STAGE 1 LIMITS: STH 73 TO PLEASANT ROAD
3. STAGE 2 LIMITS: PLEASANT ROAD TO CTH A
4. STAGE 3 LIMITS: CTH A TO FOREST STREET
5. THE FULL DEPTH PAVEMENT REPLACEMENT AT THE STH 33/STH 73 INTERSECTION SHALL BE COMPLETED DURING STAGE 1 WHILE THE DETOUR IS IN PLACE. THE PAVEMENT SHALL BE REPLACED HALF AT A TIME UTILIZING A FLAGGING OPERATION TO MAINTAIN ACCESS TO THE DETOUR ROUTE. SEE THE STAGING OVERVIEW - STH 73 INTERSECTION SHEETS FOR MORE INFORMATION.
6. THE ORDER OF THE STAGES FOR THE CULVERT REPLACEMENT CAN BE CHANGED, BUT THE CONTRACTOR SHALL KEEP EACH STAGE LIMITS THE SAME TO MAINTAIN ACCESS TO PROPERTIES AND BUSINESSES.
7. ACCESS TO EMERGENCY SERVICES SHALL BE MAINTAINED AT ALL TIMES.
8. SEE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE CLOSURES, VARIOUS CLOSURES, DETOUR SIGNING FOR MAINLINE CLOSURES"

LEGEND

- STAGE 1 WORK ZONE
- STAGE 2 WORK ZONE
- STAGE 3 WORK ZONE

N

STA. 317+92
24" X 36" CMCP
PIPE TO BE REPLACED

STA. 399+81
42" X 72" CMCP
PIPE TO BE REPLACED

STA. 416+44
30" X 45" CMCP
PIPE TO BE REPLACED

STA. 427+04
33" X 48" CMCP
PIPE TO BE REPLACED

STA. 452+78
30" X 45" CMCP
PIPE TO BE REPLACED

BEGIN PROJECT
STA 297+58.00

PLEASANT ROAD

STA. 467+10
36" CMCP
PIPE TO BE REPLACED

STA. 474+31
30" CMCP
PIPE TO BE REPLACED

STA. 485+21
30" CMCP
PIPE TO BE REPLACED

STA. 493+11
30" CMCP
PIPE TO BE REPLACED

STA. 504+31
36" X 57" CMCP
PIPE TO BE REPLACED

STA. 515+68
24" X 36" CMCP
PIPE TO BE REPLACED

STA. 532+55
36" CMCP
PIPE TO BE REPLACED

HOWARD DRIVE

CHIEF KUNO TRAIL

LINDEN LANE

BROWER BLVD

FOREST STREET

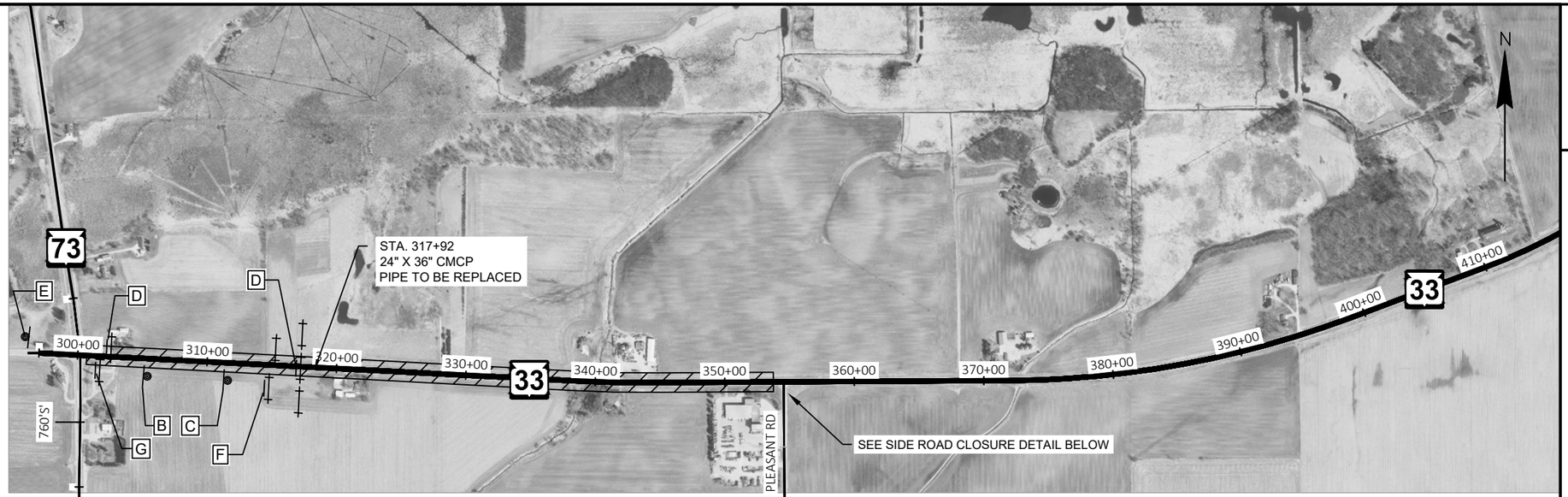
END PROJECT
STA 545+05.00

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	STAGING OVERVIEW - CULVERT REPLACEMENTS	SHEET 46	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\025001-TC.DWG
LAYOUT NAME - 01

PLOT DATE : 7/11/2025 2:27 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:1000 FT

WISDOT/CADDS SHEET 44



LEGEND:

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- SIDE ROAD CLOSURE DETAIL

GENERAL NOTES:

SEE DETOUR PLAN FOR MORE INFORMATION.

STAGE 1:
FULL CLOSURE FROM EAST OF STH 33/STH 73 INTERSECTION TO WEST OF STH 33 / PLEASANT ROAD INTERSECTION. REFER TO SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES, SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES", SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" AND SDD "TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES"

THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

POST MOUNTED SIGNS LOCATED NEAR OR ADJACENT TO THE SIDEWALK SHALL HAVE A 7-FT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE EXISTING OR NEW SIDEWALK.

ALL 'W' SIGNS SHALL BE 48"X48" UNLESS OTHERWISE NOTED AND SHALL HAVE REFLECTIVE FLUORESCENT DIAMOND GRADE SHEETING.

ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL.

A — ROAD CLOSED AHEAD (W20-3A)

B — ROAD CLOSED 1000 FT (W20-3E)

C — ROAD CLOSED 500 FT (W20-3D)

D — ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

E — END ROAD WORK
G20-2A
48"X24"

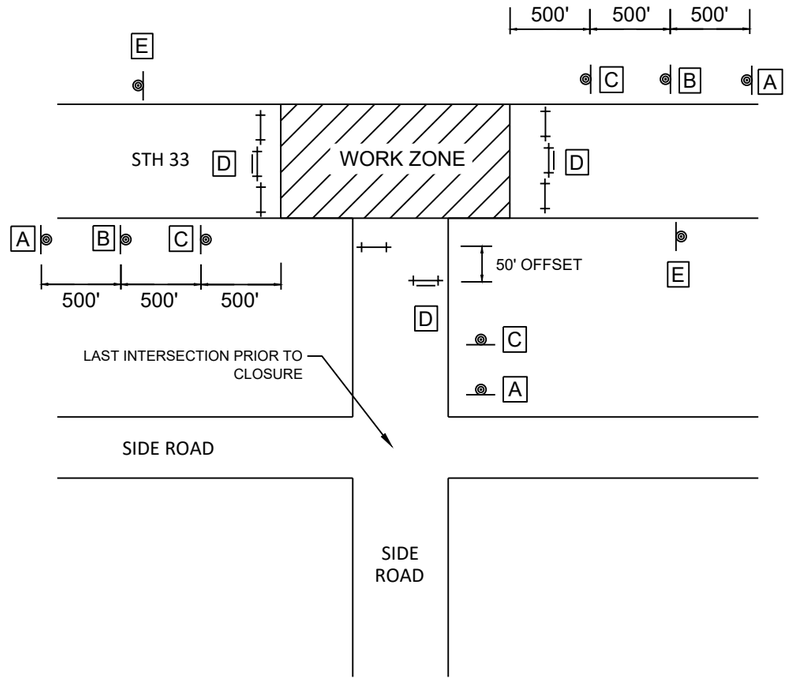
F — BRIDGE OUT
R11-2B
48"X30"

G — DETOUR
M4-9R
30"X24"

H — DETOUR
M4-9L
30"X24"

I — ROAD OPEN TO LEROY MEATS OF FOX LAKE
R10-61
60"X30"

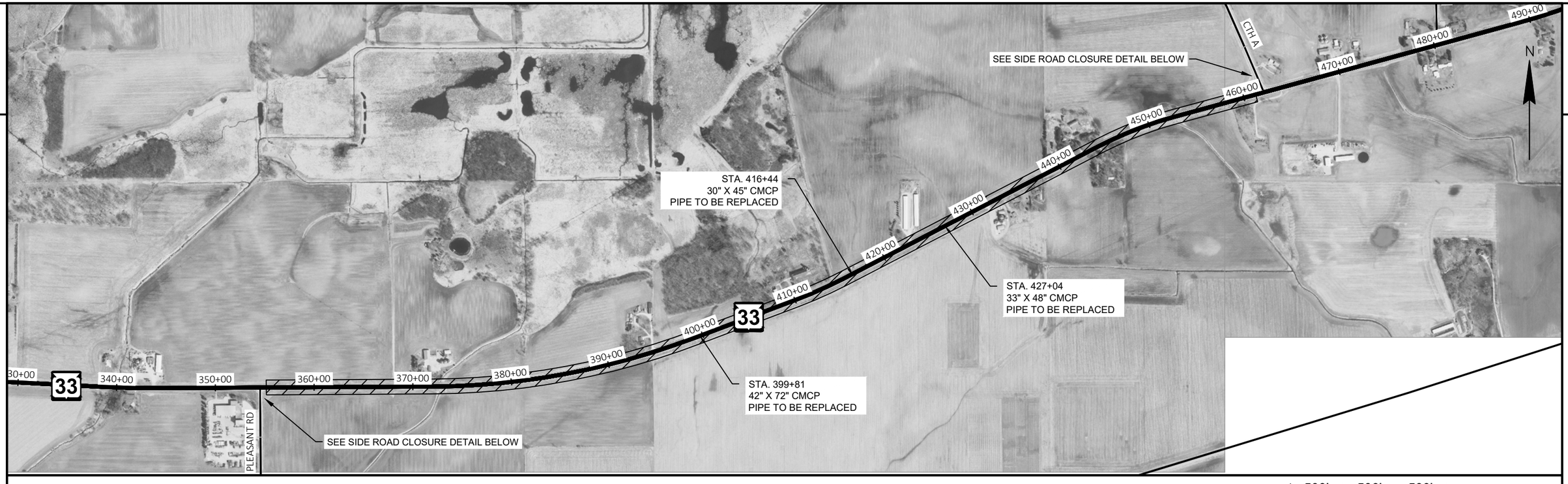
J — ROAD CLOSED TO THRU TRAFFIC 3/4 MILES AHEAD
R11-3
60"X30"



SIDE ROAD CLOSURE DETAIL

(REFER TO DETAIL 4 OF SDD BARRICADES AND SIGNS FOR SIDEROAD CLOSURES)

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	TRAFFIC CONTROL - STAGE 1 (CULVERT REPLACEMENTS)	SHEET 47	E



LEGEND:

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- SIDE ROAD CLOSURE DETAIL

GENERAL NOTES:

SEE DETOUR PLAN FOR MORE INFORMATION.

STAGE 2:
FULL CLOSURE FROM EAST OF STH 33/ PLEASANT ROAD INTERSECTION TO WEST OF STH 33 / CTH A INTERSECTION. REFER TO SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES", SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES", SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" AND SDD "TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES"

THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

POST MOUNTED SIGNS LOCATED NEAR OR ADJACENT TO THE SIDEWALK SHALL HAVE A 7-FT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE EXISTING OR NEW SIDEWALK.

ALL 'W' SIGNS SHALL BE 48"X48" UNLESS OTHERWISE NOTED AND SHALL HAVE REFLECTIVE FLUORESCENT DIAMOND GRADE SHEETING.

ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL.

A — ROAD CLOSED AHEAD — W20-3A

B — ROAD CLOSED 1000 FT — W20-3E

C — ROAD CLOSED 500 FT — W20-3D

D — ROAD CLOSED TO THRU TRAFFIC — R11-4 — 60"X30"

E — END ROAD WORK — G20-2A — 48"X24"

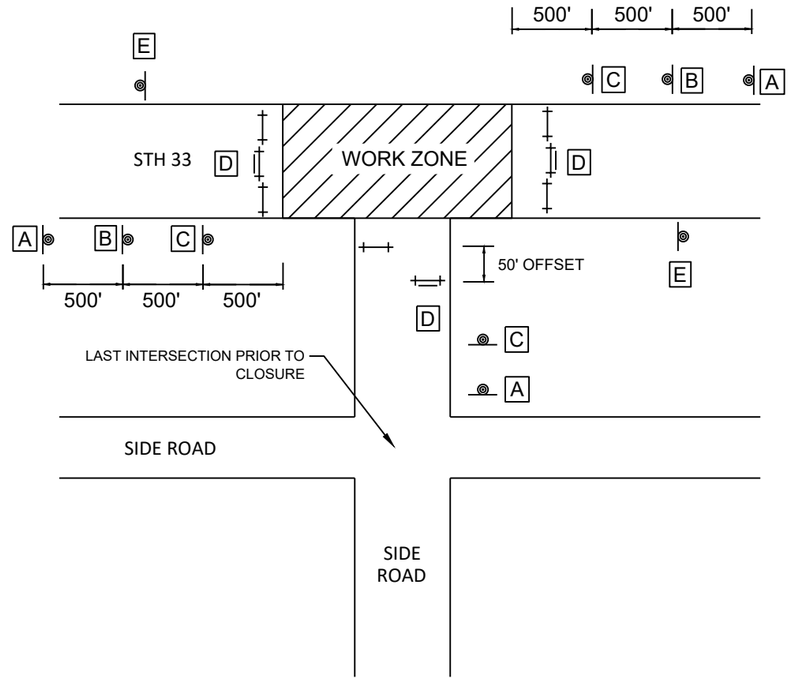
F — BRIDGE OUT — R11-2B — 48"X30"

G — DETOUR — M4-9R — 30"X24"

H — DETOUR — M4-9L — 30"X24"

I — ROAD OPEN TO LEROY MEATS OF FOX LAKE — R10-61 — 60"X30"

J — ROAD CLOSED TO THRU TRAFFIC 3/4 MILES AHEAD — R11-3 — 60"X30"



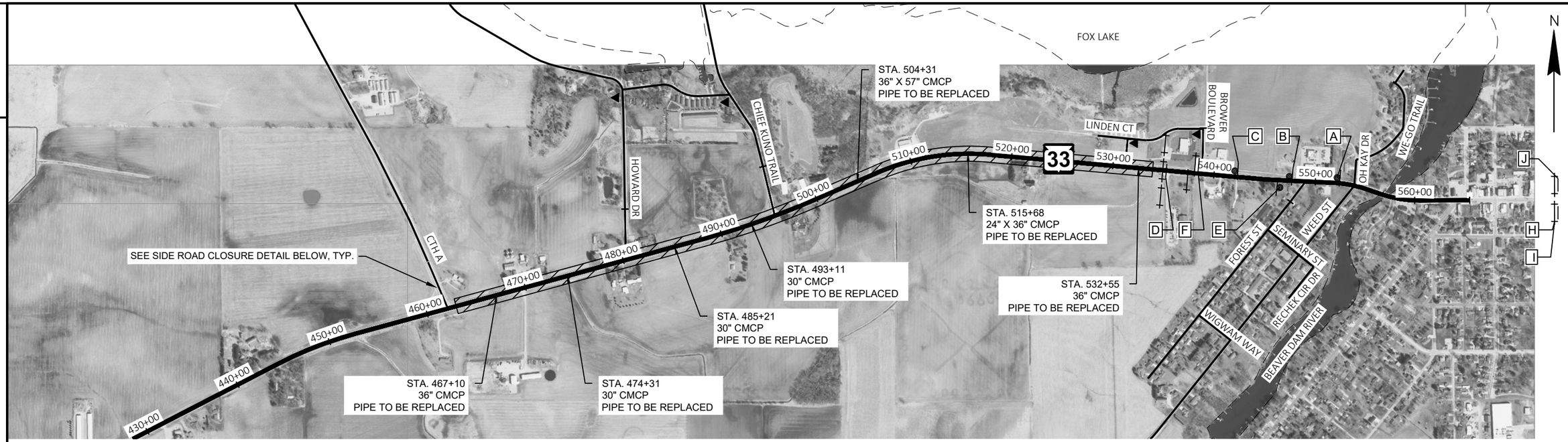
SIDE ROAD CLOSURE DETAIL

(REFER TO DETAIL 4 OF SDD BARRICADES AND SIGNS FOR SIDEROAD CLOSURES)

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	TRAFFIC CONTROL - STAGE 2 (CULVERT REPLACEMENTS)	SHEET 48	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\026001-S1-3.DWG
LAYOUT NAME - 02

PLOT DATE : 11/18/2025 10:47 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:1000 FT



LEGEND:

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- SIDE ROAD CLOSURE DETAIL

GENERAL NOTES:

SEE DETOUR PLAN FOR MORE INFORMATION.

STAGE 3:
FULL CLOSURE FROM EAST OF CTH A INTERSECTION TO WEST OF STH 33 / FOREST DR INTERSECTION. REFER TO SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES", SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES", SDD " TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" AND SDD "TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES"

THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

POST MOUNTED SIGNS LOCATED NEAR OR ADJACENT TO THE SIDEWALK SHALL HAVE A 7-FT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE EXISTING OR NEW SIDEWALK.

ALL 'W' SIGNS SHALL BE 48"X48" UNLESS OTHERWISE NOTED AND SHALL HAVE REFLECTIVE FLUORESCENT DIAMOND GRADE SHEETING.

ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL.

A — ROAD CLOSED AHEAD (W20-3A)

B — ROAD CLOSED 1000 FT (W20-3E)

C — ROAD CLOSED 500 FT (W20-3D)

D — ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

E — END ROAD WORK
G20-2A
48"X24"

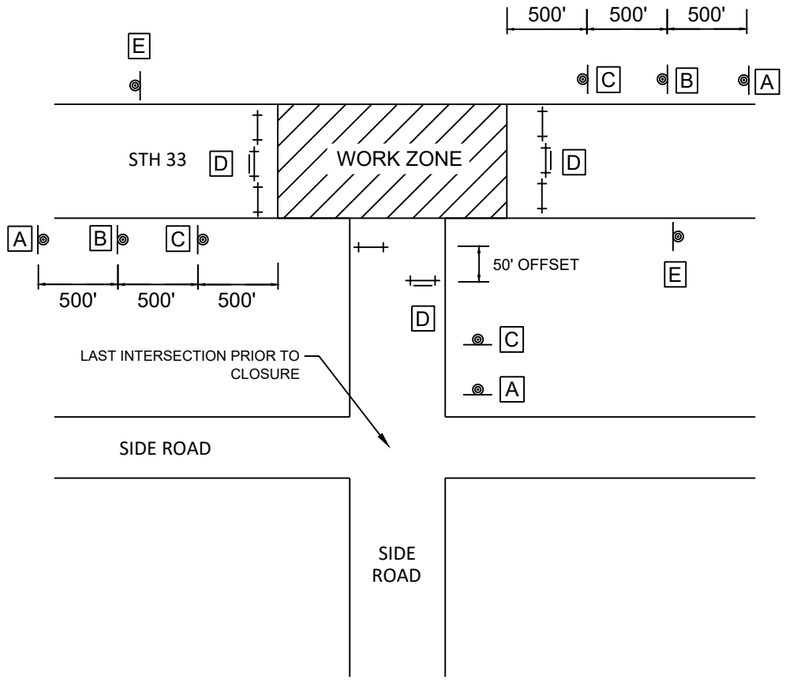
F — BRIDGE OUT
R11-2B
48"X30"

G — DETOUR
M4-9R
30"X24"

H — DETOUR
M4-9L
30"X24"

I — ROAD OPEN TO LEROY MEATS OF FOX LAKE
R10-61
60"X30"

J — ROAD CLOSED TO THRU TRAFFIC 3/4 MILES AHEAD
R11-3
60"X30"



SIDE ROAD CLOSURE DETAIL

(REFER TO DETAIL 4 OF SDD BARRICADES AND SIGNS FOR SIDEROAD CLOSURES)

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	TRAFFIC CONTROL - STAGE 3 (CULVERT REPLACEMENTS)	SHEET 49	E

2

LEGEND

WORK ZONE

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES:

1) SEE DETOUR PLAN FOR MORE INFORMATION. CONSTRUCTION TO BE COMPLETED WHILE THE STH 33 DETOUR IS IN PLACE.
2) THE ORDER OF THE STAGES AND DEPTH OF PAVEMENT REMOVAL CAN BE ADJUSTED, BUT THE CONTRACTOR SHALL MAINTAIN ACCESS THROUGH THE INTERSECTION AT ALL TIMES.
3) REFER TO SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION".
4) SOUTHBOUND STH 73 TRAFFIC TO UTILIZE NORTHBOUND STH 73 AS DIRECTED BY FLAGGERS CROSSING OVER PRIOR TO MEDIANS.

STAGE 3A : REMOVING ASPHALTIC SURFACE 2-INCH
STAGE 3E: REMOVING ASPHALT SURFACE 2-INCH
STAGE 3I: REMOVING ASPHALT SURFACE 1 ¼ -INCH
STAGE 3K: 3-INCH LOWER LAYER (4 MT 58-28 H)
STAGE 3Q: 2 ¼ -INCH UPPER LAYER (4 MT 58-28 H)

MAINTAIN ACCESS

MAINTAIN ACCESS

BEGIN CONSTRUCTION
STA. 760+78.00'S'
MATCH EXISTING
SAW CUT REQ'D

STH 73

760'S'

MAINTAIN ACCESS

STH 33

BEGIN PROJECT
STA. 297+58.00
MATCH EXISTING
SAW CUT REQ'D

END CONSTRUCTION
STA. 766+45.00'S'
MATCH EXISTING
SAW CUT REQ'D

STH 73

300'

CROSS TRAFFIC TO BE MAINTAINED AT ALL TIMES

MAINTAIN ACCESS

STA. 302+30.00
END REMOVING ASPHALTIC SURFACE 5 1/4" REQUIRED.
BEGIN REMOVING ASPHALTIC SURFACE MILLING 2" REQUIRED.
BEGIN PAVED SHOULDER WIDENING LT/RT REQUIRED.
SEE TYPICAL SECTIONS

STH 33

N

2

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	STAGING OVERVIEW - STH 73 INTERSECTION	SHEET 50	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\026002-S3 (STH 73 INTERSECTION).DWG
LAYOUT NAME - 01
PLOT DATE : 11/18/2025 12:05 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

WORK ZONE

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES:

1) SEE DETOUR PLAN FOR MORE INFORMATION. CONSTRUCTION TO BE COMPLETED WHILE THE STH 33 DETOUR IS IN PLACE.
2) THE ORDER OF THE STAGES AND DEPTH OF PAVEMENT REMOVAL CAN BE ADJUSTED, BUT THE CONTRACTOR SHALL MAINTAIN ACCESS THROUGH THE INTERSECTION AT ALL TIMES.
3) REFER TO SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION".
4) NORTHBOUND STH 73 TRAFFIC TO UTILIZE SOUTHBOUND STH 73 AS DIRECTED BY FLAGGERS CROSSING OVER PRIOR TO MEDIANS.

N

STH 33

MAINTAIN ACCESS

BEGIN PROJECT
STA. 297+58.00
MATCH EXISTING
SAW CUT REQ'D

STAGE 3B: REMOVING ASPHALTIC SURFACE 2-INCH
STAGE 3F: REMOVING ASPHALT SURFACE 2-INCH
STAGE 3J: REMOVING ASPHALT SURFACE 1 $\frac{1}{4}$ -INCH
STAGE 3L: 3-INCH LOWER LAYER (4 MT 58-28 H)
STAGE 3R: 2 $\frac{1}{4}$ -INCH UPPER LAYER (4 MT 58-28 H)

MAINTAIN ACCESS

END CONSTRUCTION
STA. 766+45.00'S'
MATCH EXISTING
SAW CUT REQ'D

BEGIN CONSTRUCTION
STA. 760+78.00'S'
MATCH EXISTING
SAW CUT REQ'D

STH 73

760'S'

30th

STH 73

CROSS TRAFFIC TO BE MAINTAINED AT ALL TIMES

MAINTAIN ACCESS

MAINTAIN ACCESS

STA. 302+30.00
END REMOVING ASPHALTIC SURFACE 5 1/4" REQUIRED.
BEGIN REMOVING ASPHALTIC SURFACE MILLING 2" REQUIRED.
BEGIN PAVED SHOULDER WIDENING LT/RT REQUIRED.
SEE TYPICAL SECTIONS

STH 33

2

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	STAGING OVERVIEW - STH 73 INTERSECTION	SHEET 51	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\026002-S3 (STH 73 INTERSECTION).DWG
LAYOUT NAME - 02

PLOT DATE : 11/18/2025 12:50 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

WORK ZONE

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES:

1) SEE DETOUR PLAN FOR MORE INFORMATION. CONSTRUCTION TO BE COMPLETED WHILE THE STH 33 DETOUR IS IN PLACE.
2) THE ORDER OF THE STAGES AND DEPTH OF PAVEMENT REMOVAL CAN BE ADJUSTED, BUT THE CONTRACTOR SHALL MAINTAIN ACCESS THROUGH THE INTERSECTION AT ALL TIMES.REFER TO SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION".
3) WESTBOUND STH 33 TRAFFIC TO UTILIZE EASTBOUND STH 33 AS DIRECTED BY FLAGGERS.

N

STH 33

MAINTAIN ACCESS

BEGIN PROJECT
STA. 297+58.00
MATCH EXISTING
SAW CUT REQ'D

STAGE 3C: REMOVING ASPHALTIC SURFACE 2-INCH
STAGE 3G: REMOVING ASPHALT SURFACE 3 $\frac{1}{4}$ -INCH
STAGE 3M: 3-INCH LOWER LAYER (4 MT 58-28 H)
STAGE 3O: 2 $\frac{1}{4}$ -INCH UPPER LAYER (4 MT 58-28 H)

MAINTAIN ACCESS

END CONSTRUCTION
STA. 766+45.00'S'
MATCH EXISTING
SAW CUT REQ'D

BEGIN CONSTRUCTION
STA. 760+78.00'S'
MATCH EXISTING
SAW CUT REQ'D

STH 73

760'S'

30

STH 73

MAINTAIN ACCESS

CROSS TRAFFIC TO BE MAINTAINED AT ALL TIMES

STAGE 3C: REMOVING ASPHALTIC SURFACE 2-INCH
STAGE 3G: REMOVING ASPHALTIC SURFACE 3 $\frac{1}{4}$ -INCH
STAGE 3M: 3-INCH LOWER LAYER (4 MT 58-28 H)
STAGE 3O: 2 $\frac{1}{4}$ -INCH UPPER LAYER (4 MT 58-28 H)

MAINTAIN ACCESS

STA. 302+30.00
END REMOVING ASPHALTIC SURFACE 5 1/4" REQUIRED.
BEGIN REMOVING ASPHALTIC SURFACE MILLING 2" REQUIRED.
BEGIN PAVED SHOULDER WIDENING LT/RT REQUIRED.
SEE TYPICAL SECTIONS

STH 33

2

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	STAGING OVERVIEW - STH 73 INTERSECTION	SHEET 52	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\026002-S3 (STH 73 INTERSECTION).DWG
LAYOUT NAME - 03

PLOT DATE : 11/18/2025 12:52 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

WORK ZONE

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES:

1) SEE DETOUR PLAN FOR MORE INFORMATION. CONSTRUCTION TO BE COMPLETED WHILE THE STH 33 DETOUR IS IN PLACE.
2) THE ORDER OF THE STAGES AND DEPTH OF PAVEMENT REMOVAL CAN BE ADJUSTED, BUT THE CONTRACTOR SHALL MAINTAIN ACCESS THROUGH THE INTERSECTION AT ALL TIMES.REFER TO SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION".
3) EASTBOUND STH 33 TRAFFIC TO UTILIZE WESTBOUND STH 33 AS DIRECTED BY FLAGGERS.

N

STH 33

MAINTAIN ACCESS

BEGIN PROJECT
STA. 297+58.00
MATCH EXISTING
SAW CUT REQ'D

STAGE 3D: REMOVING ASPHALTIC SURFACE 4-INCH
STAGE 3H: REMOVING ASPHALTIC SURFACE 1 $\frac{1}{4}$ -INCH
STAGE 3N: 3-INCH UPPER LAYER (4 MT 58-28 H)
STAGE 3P: 2 $\frac{1}{4}$ - INCH LOWER LAYER (4 MT 58-28 H)

MAINTAIN ACCESS

END CONSTRUCTION
STA. 766+45.00'S'
MATCH EXISTING
SAW CUT REQ'D

BEGIN CONSTRUCTION
STA. 760+78.00'S'
MATCH EXISTING
SAW CUT REQ'D

STH 73

760'S'

300

STH 73

MAINTAIN ACCESS

CROSS TRAFFIC TO BE MAINTAINED AT ALL TIMES

STAGE 3D: REMOVING ASPHALTIC SURFACE 4-INCH
STAGE 3H: REMOVING ASPHALTIC SURFACE 1 $\frac{1}{4}$ -INCH
STAGE 3N: 3-INCH UPPER LAYER (4 MT 58-28 H)
STAGE 3P: 2 $\frac{1}{4}$ - INCH LOWER LAYER (4 MT 58-28 H)

MAINTAIN ACCESS

STA. 302+30.00
END REMOVING ASPHALTIC SURFACE 5 1/4" REQUIRED.
BEGIN REMOVING ASPHALTIC SURFACE MILLING 2" REQUIRED.
BEGIN PAVED SHOULDER WIDENING LT/RT REQUIRED.
SEE TYPICAL SECTIONS

STH 33

2

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	STAGING OVERVIEW - STH 73 INTERSECTION	SHEET 53	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\026002-S3 (STH 73 INTERSECTION).DWG
LAYOUT NAME - 04

PLOT DATE : 11/18/2025 12:53 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND:

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT

GENERAL NOTES:

SEE DETOUR PLAN FOR MORE INFORMATION.

STAGE 4 (MILLING AND PAVING OF STH 33):
CONSTRUCTION TO BE COMPLETED WHILE THE STH 33 DETOUR IS IN PLACE. SEE DETOUR PLAN FOR MORE INFORMATION. UTILIZE MOVING OPERATION TO MAINTAIN LOCAL AND EMERGENCY VEHICLE ACCESS. REFER TO SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" & SDD "TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES" FOR TRAFFIC CONTROL SIGNAGE DETAILS.

THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

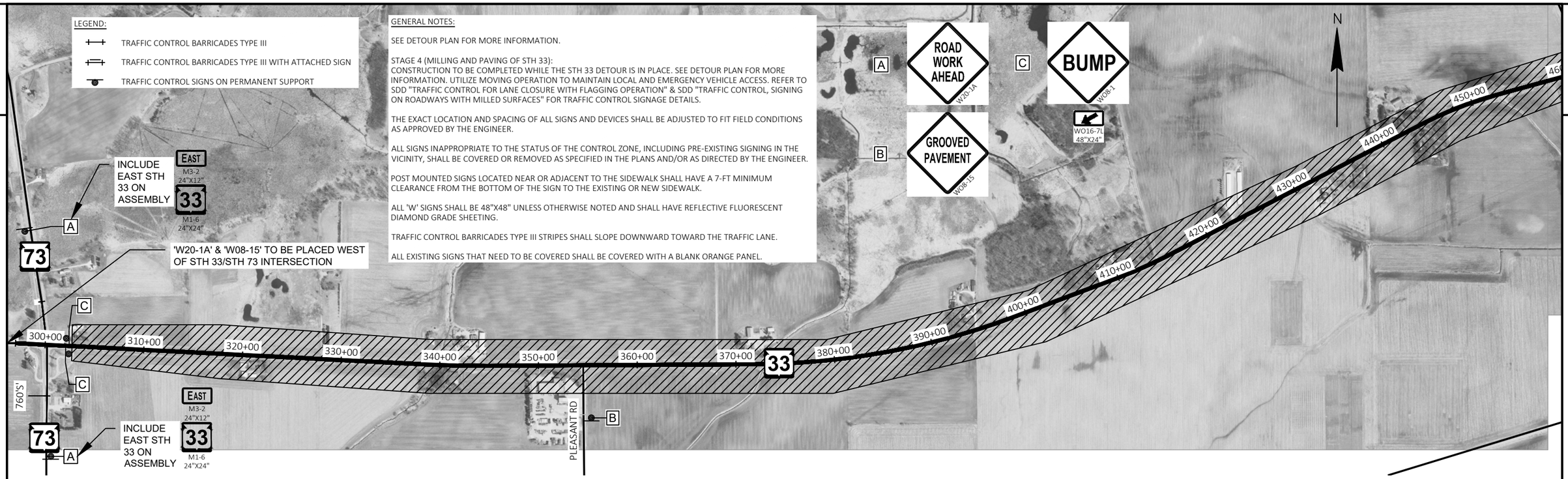
ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

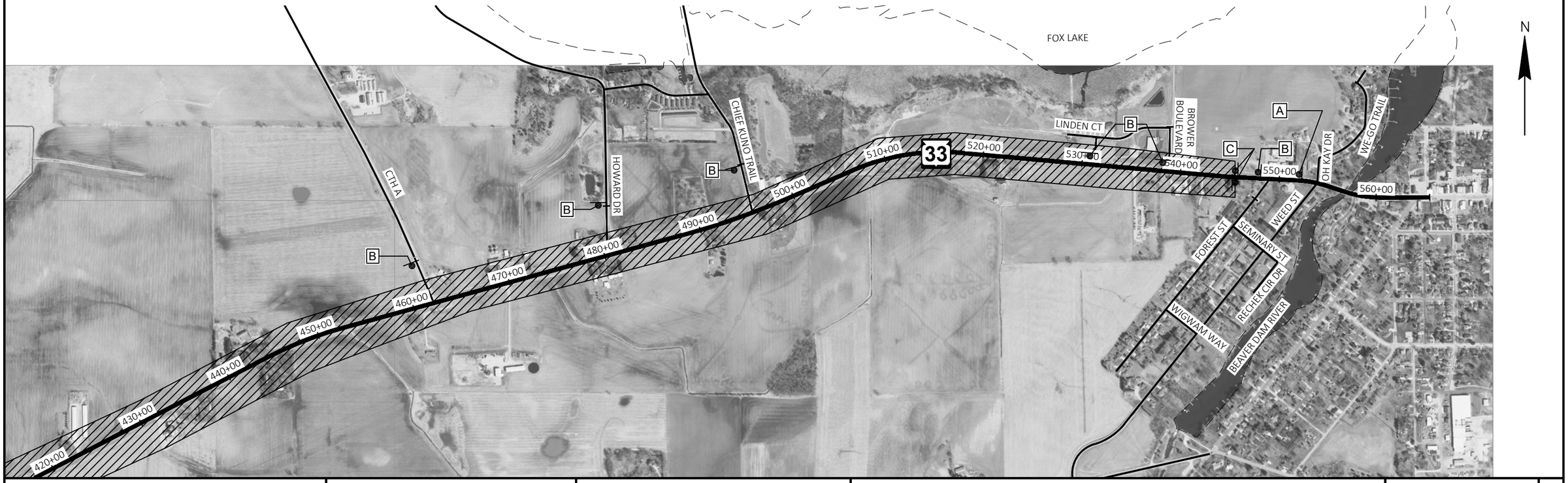
POST MOUNTED SIGNS LOCATED NEAR OR ADJACENT TO THE SIDEWALK SHALL HAVE A 7-FT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE EXISTING OR NEW SIDEWALK.

ALL 'W' SIGNS SHALL BE 48"X48" UNLESS OTHERWISE NOTED AND SHALL HAVE REFLECTIVE FLUORESCENT DIAMOND GRADE SHEETING.

TRAFFIC CONTROL BARRICADES TYPE III STRIPES SHALL SLOPE DOWNWARD TOWARD THE TRAFFIC LANE.

ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL.





PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	TRAFFIC CONTROL - STAGE 4 (MILLING AND PAVING)	SHEET 54 E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\026101-S4.DWG
LAYOUT NAME - STAGE 4

PLOT DATE : 7/11/2025 3:30 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:1000 FT

WISDOT/CADDS SHEET 42

SEE DETAIL 1

SEE DETAIL 4

SEE DETAIL 3

SEE DETAIL 2

Randolph

Fox Lake

Beaver Edge

BEAVER DAM

Columbus

LEGEND

- WORK ZONE
- DETOUR ROUTE
- X — SIGN NUMBER
- PROPOSED SIGN MOUNTED ON POSTS

N

NOTES

- ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- EXACT NUMBER, LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- SIGN LAYOUTS SHALL BE IN ACCORDANCE WIHT THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS, UNLESS OTHERWISE PROVIDED IN THE PLAN.
- SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER THE ITEM 'TRAFFIC CONTROL COVERING SIGNS'.
- ALL 'W' SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED AND SHALL HAVE REFLECTIVE FLUORESCENT DIAMOND GRADE SHEETING
- USE SIGN SIZE 3 ON FREEWAY, USE SIGN SIZE 2 ON LOCAL HIGHWAYS AND RAMPS.
- SEE STANDARD DETAIL DRAWING "DETOUR SIGNING FOR MAINLINE CLOSURES"
- SEE PORTABLE CHANGEABLE MESSAGE SIGN OVERVIEW FOR MORE INFORMATION

1.1: M4-8 24"X12" DETOUR; M3-2 24"X12" EAST; M1-6 24"X24" 33; M06-1 21"X21" ↑

1.2: M4-8 24"X12" DETOUR; M3-4 36"X18" WEST; M1-6 24"X24" 33; M06-1 21"X21" ↑

1.3: M4-8 24"X12" DETOUR; M3-2 24"X12" EAST; M1-6 24"X24" 33

1.4: M4-8 24"X12" DETOUR; M3-4 36"X18" WEST; M1-6 24"X24" 33

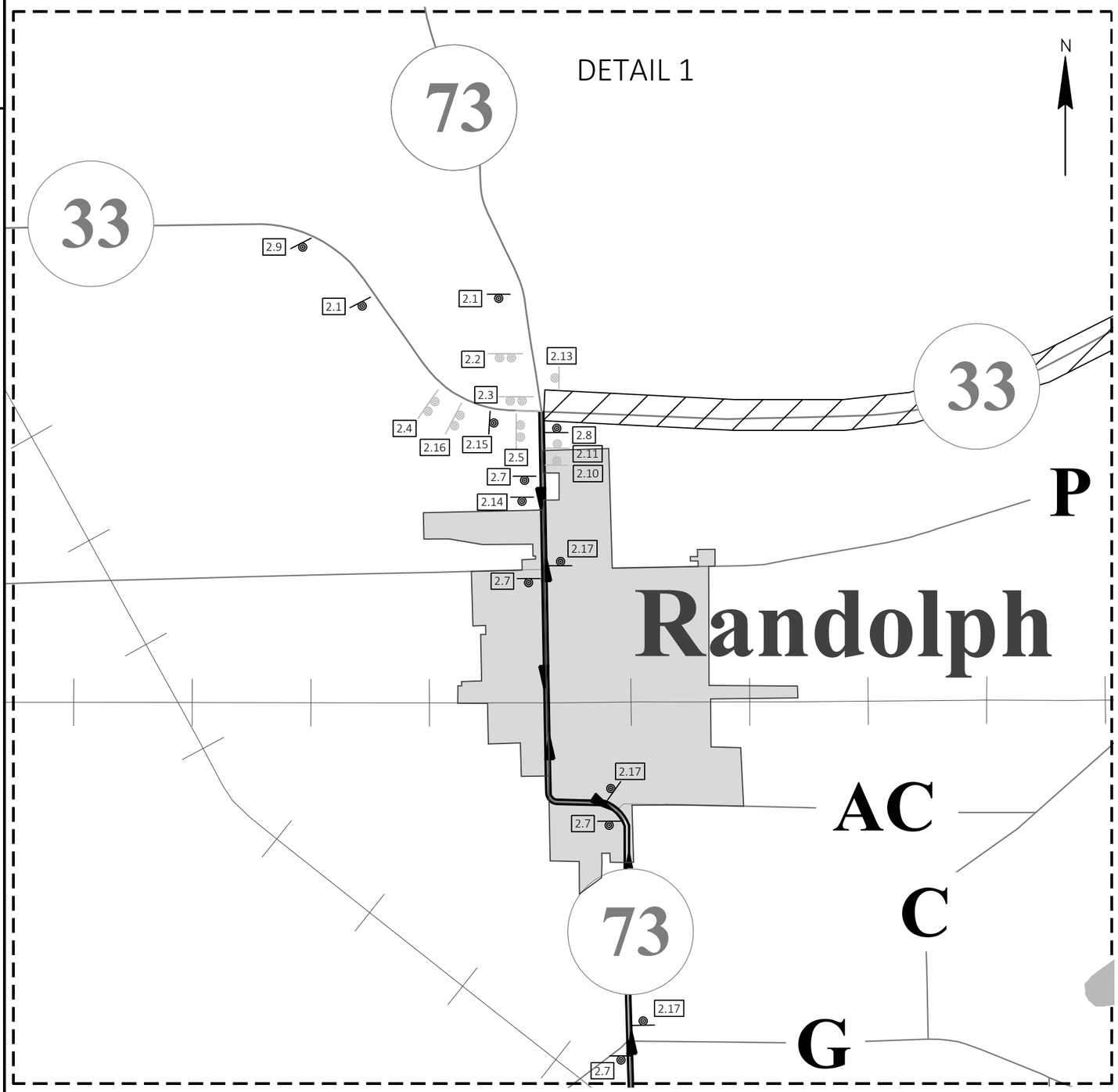
PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	DETOUR PLAN	SHEET 55	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 01

PLOT DATE : 7/25/2025 11:25 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:2 MI

WISDOT/CADDS SHEET 42

DETAIL 1



LEGEND

- WORK ZONE
- DETOUR ROUTE
- X — SIGN NUMBER
- PROPOSED SIGN MOUNTED ON POSTS

NOTES

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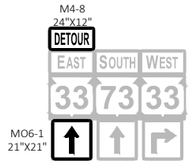
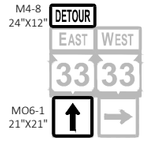
- SEE STANDARD DETAIL DRAWING "DETOUR SIGNING FOR MAINLINE CLOSURES"

2.1



2.2



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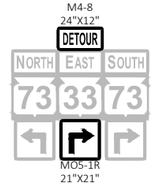

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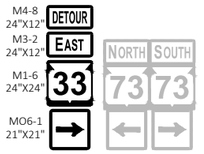

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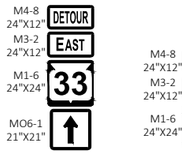
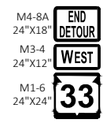


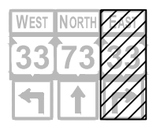
2.6

2.7



2.8

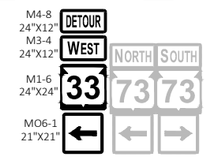
2.9



2.10

2.11

2.12



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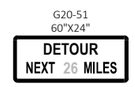

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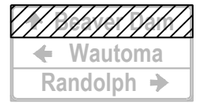
2.15



2.16

2.17

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	DETOUR PLAN	SHEET 56	E

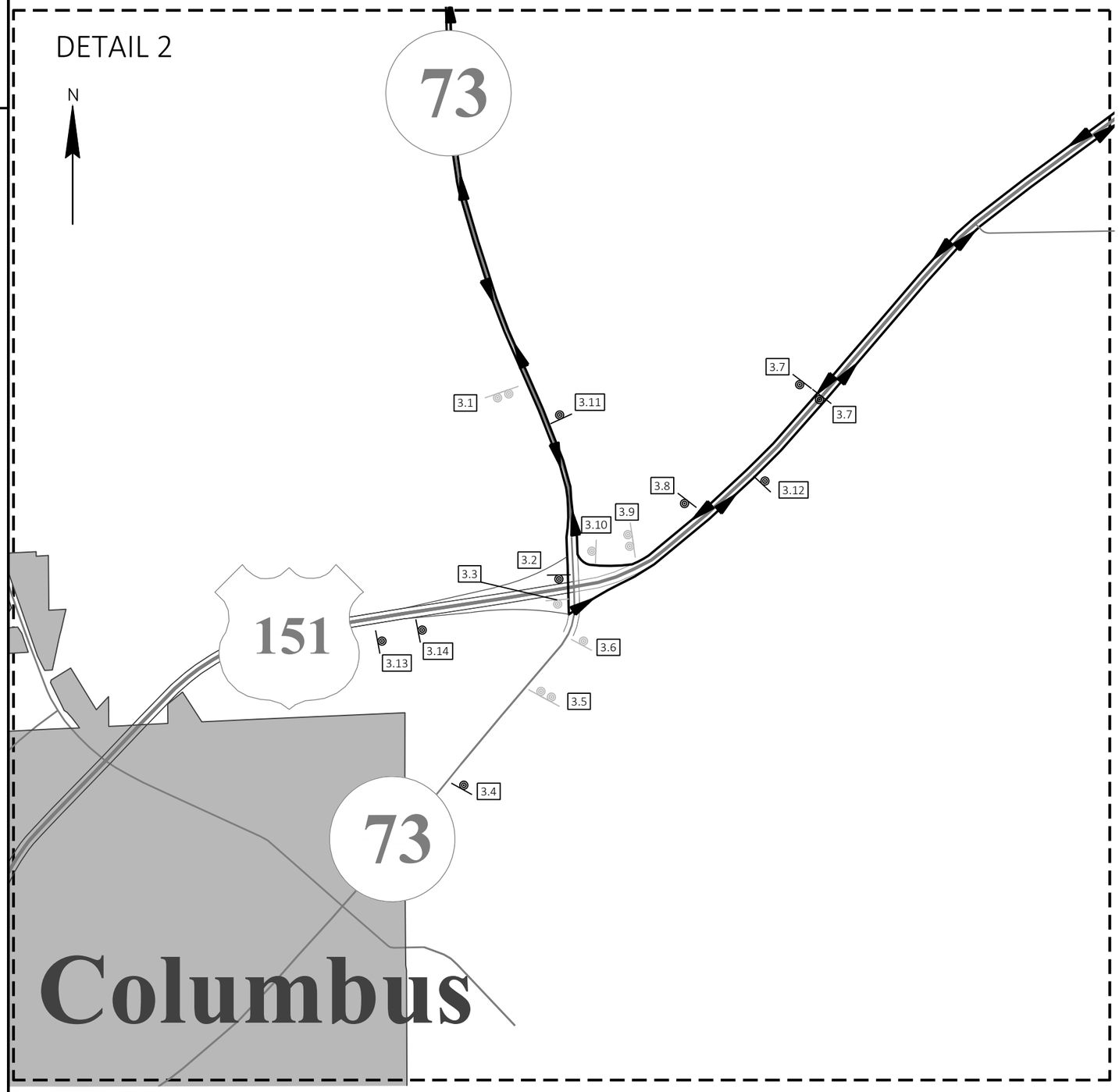
FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 02

PLOT DATE : 7/25/2025 11:49 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:0.5 MI

WISDOT/CADDS SHEET 42

2

DETAIL 2



LEGEND

- WORK ZONE
- DETOUR ROUTE
- [X] SIGN NUMBER
- PROPOSED SIGN MOUNTED ON POSTS

NOTES

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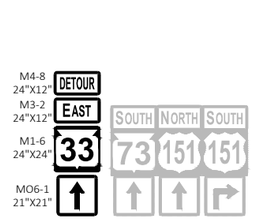
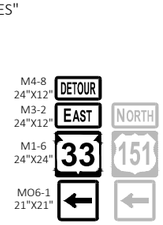
- USE SIGN SIZE 3 ON FREEWAY, USE SIGN SIZE 2 ON LOCAL HIGHWAYS AND RAMPS.
- SEE STANDARD DETAIL DRAWING "DETOUR SIGNING FOR MAINLINE CLOSURES"



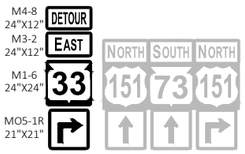
3.1

3.2



3.3

3.4



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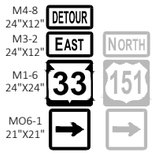
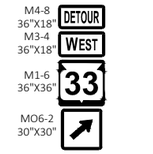
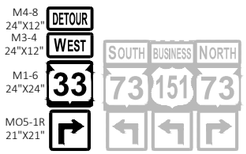


3.6

3.7



3.8



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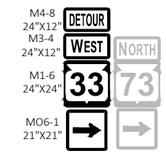

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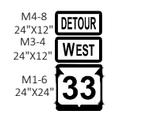

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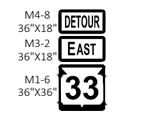

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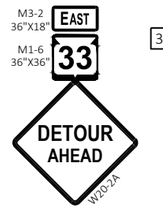

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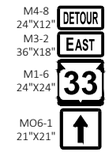
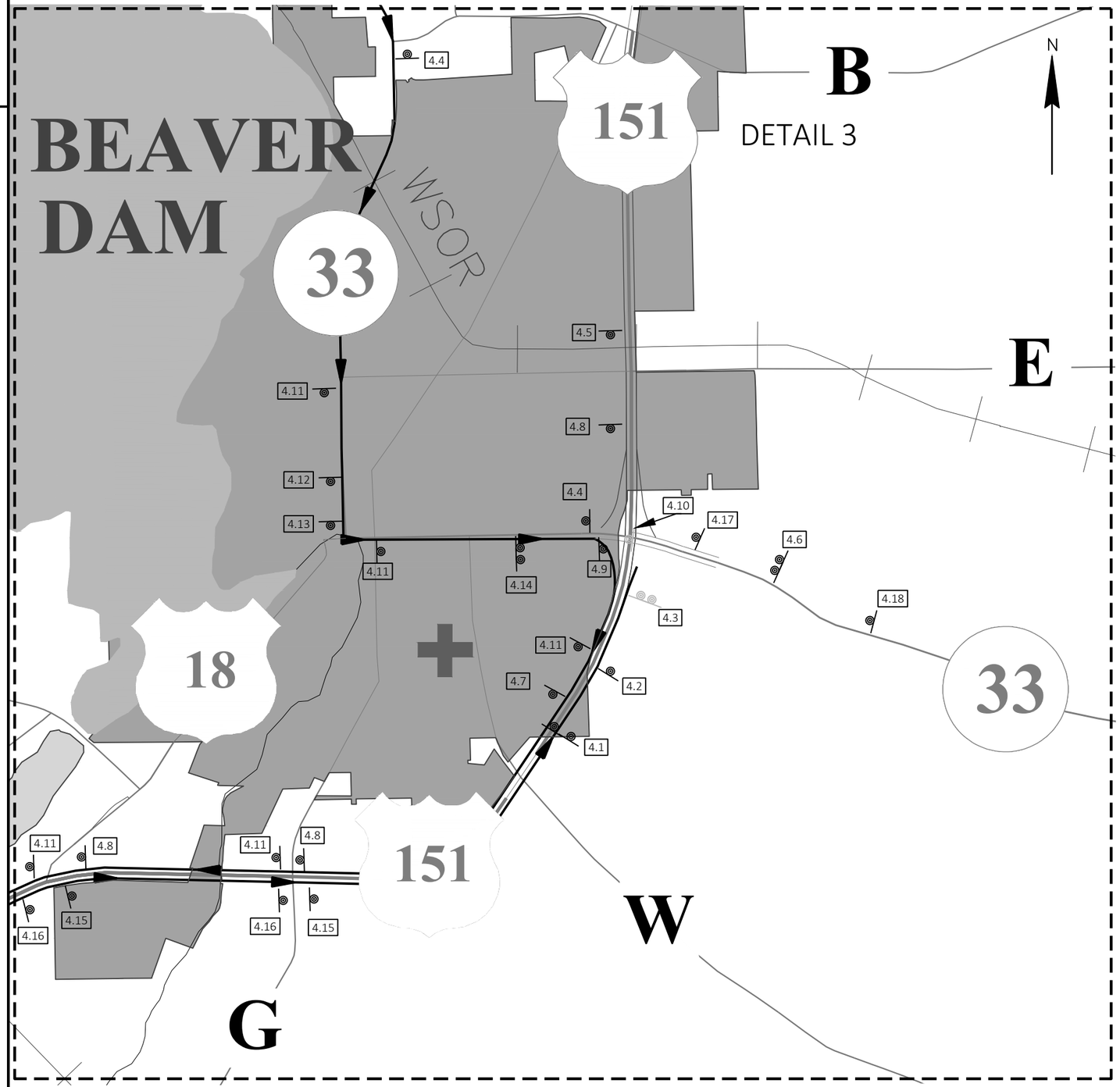


3.14

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	DETOUR PLAN	SHEET 57	E



LEGEND

- WORK ZONE
- DETOUR ROUTE
- X — SIGN NUMBER
- PROPOSED SIGN MOUNTED ON POSTS

NOTES

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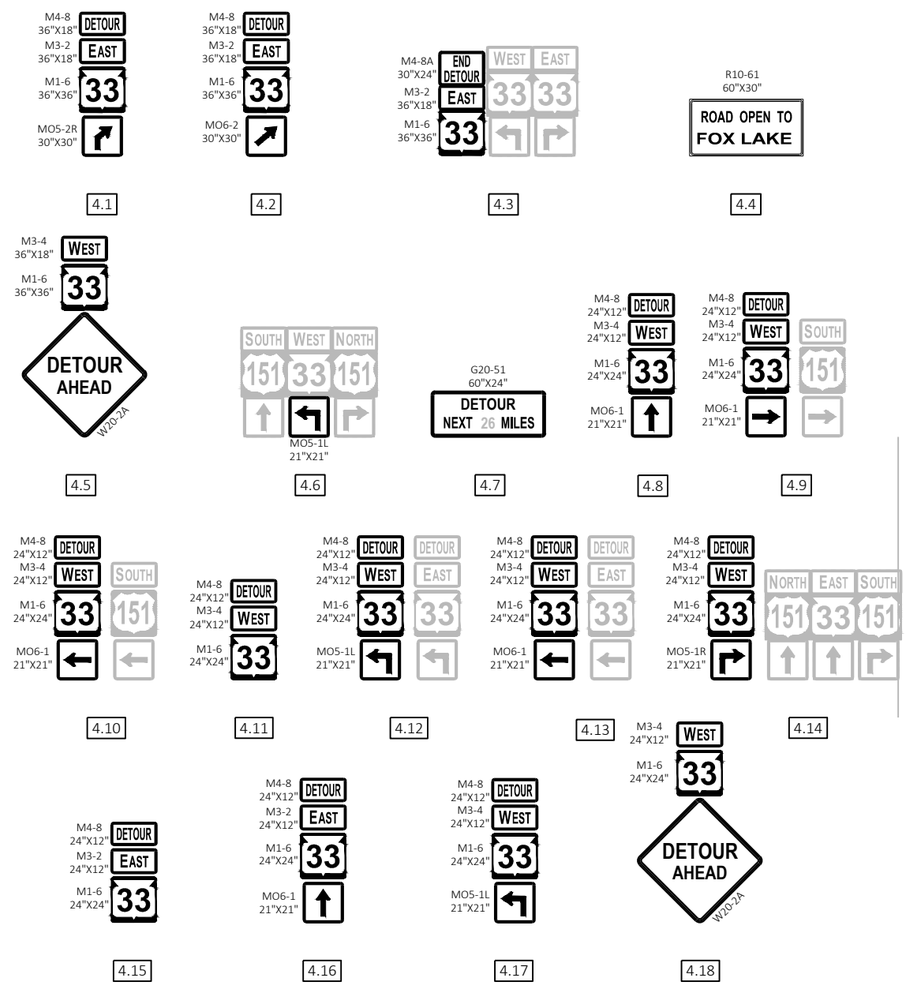
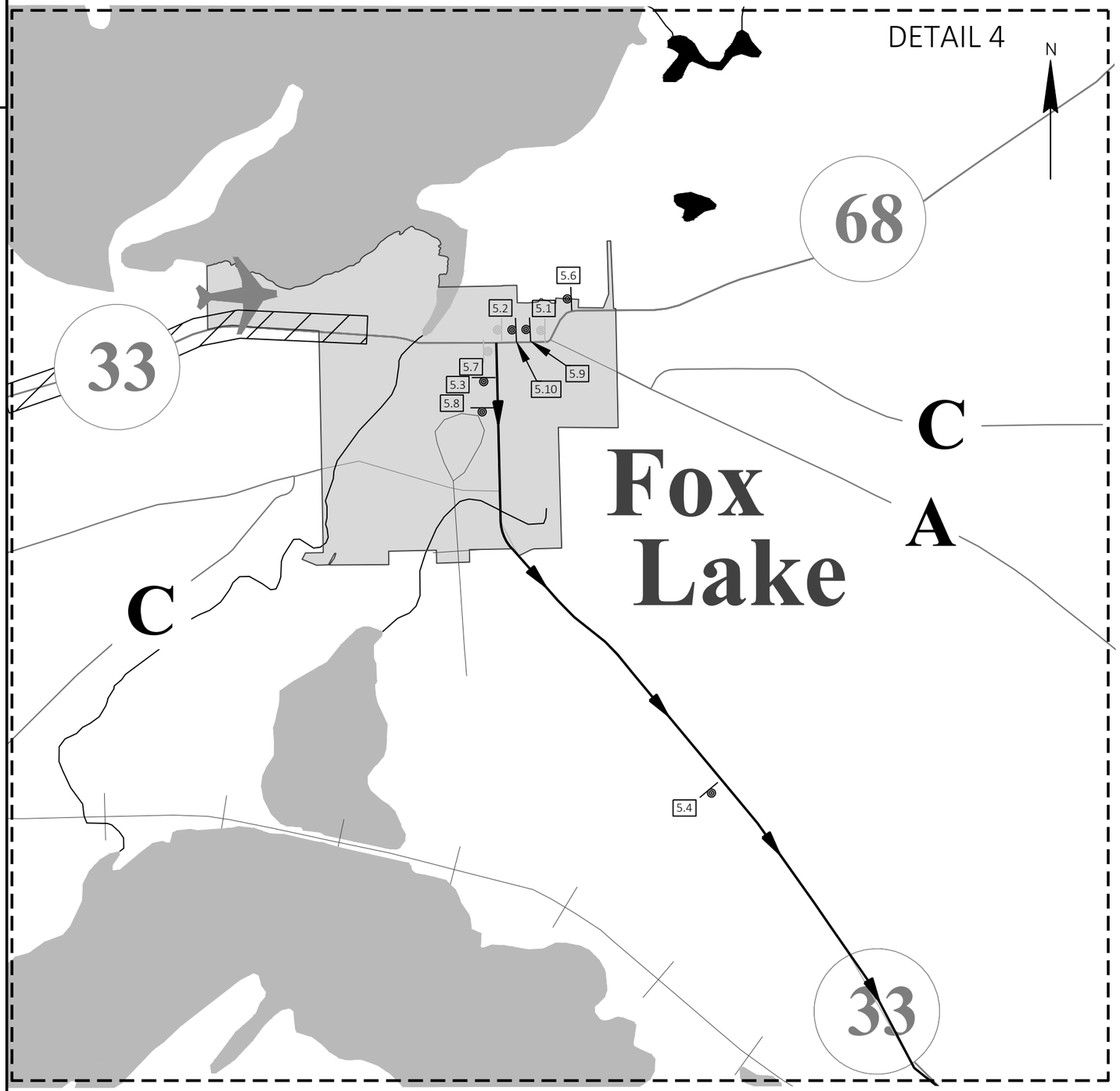


PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	DETOUR PLAN	SHEET 58	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 04
PLOT DATE : 7/25/2025 12:56 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:0.5 MI
WISDOT/CADDS SHEET 42



LEGEND

- WORK ZONE
- DETOUR ROUTE
- [X] SIGN NUMBER
- PROPOSED SIGN MOUNTED ON POSTS

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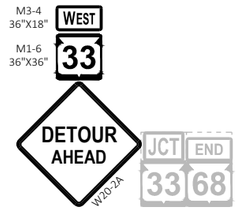

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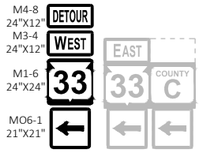


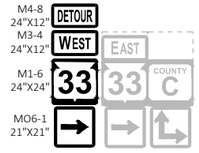
5.2

5.3

5.4

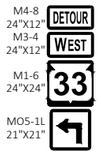
5.5

5.6



5.7

5.8



5.9

5.10

PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	DETOUR PLAN	SHEET 59	E

Estimate Of Quantities

6070-01-63

Line	Item	Item Description	Unit	Total	Qty
0002	203.0100	Removing Small Pipe Culverts	EACH	12.000	12.000
0004	204.0110	Removing Asphaltic Surface	SY	6,072.000	6,072.000
0006	204.0115	Removing Asphaltic Surface Butt Joints	SY	90.000	90.000
0008	204.0120	Removing Asphaltic Surface Milling	SY	91,838.000	91,838.000
0010	204.0180	Removing Delineators and Markers	EACH	24.000	24.000
0012	205.0100	Excavation Common	CY	6,005.000	6,005.000
0014	209.2500	Backfill Granular Grade 2	TON	6,461.000	6,461.000
0016	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 6070-01-63	EACH	1.000	1.000
0018	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	319.000	319.000
0020	213.0100	Finishing Roadway (project) 01. 6070-01-63	EACH	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	160.000	160.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	940.000	940.000
0026	305.0500	Shaping Shoulders	STA	494.000	494.000
0028	312.0110	Select Crushed Material	TON	950.000	950.000
0030	455.0605	Tack Coat	GAL	12,187.000	12,187.000
0032	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0034	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0036	460.2000	Incentive Density HMA Pavement	DOL	1,150.000	1,150.000
0038	460.2005	Incentive Density PWL HMA Pavement	DOL	12,680.000	12,680.000
0040	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	4,970.000	4,970.000
0042	460.2010	Incentive Air Voids HMA Pavement	DOL	12,680.000	12,680.000
0044	460.6224	HMA Pavement 4 MT 58-28 S	TON	9,513.000	9,513.000
0046	460.6424	HMA Pavement 4 MT 58-28 H	TON	11,318.000	11,318.000
0048	465.0105	Asphaltic Surface	TON	395.000	395.000
0050	465.0110	Asphaltic Surface Patching	TON	505.000	505.000
0052	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	185.000	185.000
0054	465.0525	Asphaltic Rumble Strips, Shoulder Sinusoidal	LF	43,770.000	43,770.000
0056	465.0565	Asphaltic Rumble Strips, Centerline Sinusoidal	LF	21,100.000	21,100.000
0058	465.0580	Asphaltic Rumble Strips, Transverse	SY	99.000	99.000
0060	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	172.000	172.000
0062	522.0436	Culvert Pipe Reinforced Concrete Class IV 36-Inch	LF	102.000	102.000
0064	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	6.000	6.000
0066	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	4.000	4.000
0068	522.2324	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 24x38-Inch	LF	88.000	88.000
0070	522.2334	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 34x53-Inch	LF	70.000	70.000
0072	522.2424	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	66.000	66.000
0074	522.2434	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	LF	94.000	94.000
0076	522.2624	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	4.000	4.000
0078	522.2634	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	EACH	6.000	6.000
0080	522.2638	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 38x60-Inch	EACH	2.000	2.000
0082	522.2648	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 48x76-Inch	EACH	2.000	2.000
0084	606.0100	Riprap Light	CY	70.000	70.000
0086	618.0100	Maintenance and Repair of Haul Roads (project) 01. 6070-01-63	EACH	1.000	1.000
0088	619.1000	Mobilization	EACH	1.000	1.000
0090	623.0200	Dust Control Surface Treatment	SY	23,751.000	23,751.000
0092	624.0100	Water	MGAL	60.600	60.600
0094	625.0100	Topsoil	SY	5,680.000	5,680.000
0096	628.1504	Silt Fence	LF	1,620.000	1,620.000
0098	628.1520	Silt Fence Maintenance	LF	1,620.000	1,620.000

6070-01-63

Line	Item	Item Description	Unit	Total	Qty
0100	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0102	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0104	628.2002	Erosion Mat Class I Type A	SY	5,680.000	5,680.000
0106	628.7010	Inlet Protection Type B	EACH	4.000	4.000
0108	628.7555	Culvert Pipe Checks	EACH	73.000	73.000
0110	629.0210	Fertilizer Type B	CWT	3.400	3.400
0112	630.0120	Seeding Mixture No. 20	LB	260.000	260.000
0114	630.0200	Seeding Temporary	LB	160.000	160.000
0116	630.0500	Seed Water	MGAL	63.900	63.900
0118	633.5200	Markers Culvert End	EACH	24.000	24.000
0120	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	12.000	12.000
0122	638.2102	Moving Signs Type II	EACH	11.000	11.000
0124	638.3000	Removing Small Sign Supports	EACH	12.000	12.000
0126	642.5201	Field Office Type C	EACH	1.000	1.000
0128	643.0420	Traffic Control Barricades Type III	DAY	2,580.000	2,580.000
0130	643.0705	Traffic Control Warning Lights Type A	DAY	5,160.000	5,160.000
0132	643.0900	Traffic Control Signs	DAY	28,575.000	28,575.000
0134	643.0920	Traffic Control Covering Signs Type II	EACH	7.000	7.000
0136	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0138	643.1500	Traffic Control Speed Feedback Trailer	DAY	180.000	180.000
0140	643.3165	Temporary Marking Line Paint 6-Inch	LF	78,562.000	78,562.000
0142	643.3265	Temporary Marking Line Paint 10-Inch	LF	1,080.000	1,080.000
0144	643.3505	Temporary Marking Arrow Paint	EACH	9.000	9.000
0146	643.3605	Temporary Marking Word Paint	EACH	4.000	4.000
0148	643.3805	Temporary Marking Stop Line Paint 18-Inch	LF	145.000	145.000
0150	643.5000	Traffic Control	EACH	1.000	1.000
0152	645.0130	Geotextile Type R	SY	200.000	200.000
0154	646.2020	Marking Line Epoxy 6-Inch	LF	876.000	876.000
0156	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	77,020.000	77,020.000
0158	646.4020	Marking Line Epoxy 10-Inch	LF	94.000	94.000
0160	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	1,022.000	1,022.000
0162	646.5020	Marking Arrow Epoxy	EACH	9.000	9.000
0164	646.5120	Marking Word Epoxy	EACH	4.000	4.000
0166	646.6105	Marking Stop Line Paint 18-Inch	LF	68.000	68.000
0168	646.6120	Marking Stop Line Epoxy 18-Inch	LF	136.000	136.000
0170	646.8120	Marking Curb Epoxy	LF	293.000	293.000
0172	646.8220	Marking Island Nose Epoxy	EACH	10.000	10.000
0174	648.0100	Locating No-Passing Zones	MI	4.690	4.690
0176	650.6000	Construction Staking Pipe Culverts	EACH	12.000	12.000
0178	650.8000	Construction Staking Resurfacing Reference	LF	24,747.000	24,747.000
0180	650.9911	Construction Staking Supplemental Control (project) 01. 6070-01-63	EACH	1.000	1.000
0182	650.9920	Construction Staking Slope Stakes	LF	1,200.000	1,200.000
0184	690.0150	Sawing Asphalt	LF	2,029.000	2,029.000
0186	740.0440	Incentive IRI Ride	DOL	18,770.000	18,770.000
0188	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0190	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,160.000	2,160.000
0192	SPV.0090	Special 01. Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 48X76-Inc	LF	48.000	48.000
0194	SPV.0090	Special 02. Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38X60-Inc	LF	54.000	54.000

Estimate Of Quantities

6070-01-63

Line	Item	Item Description	Unit	Total	Qty
0196	SPV.0180	Special 01. Removing Distressed Pavement Milling	SY	2,720.000	2,720.000

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REMOVING SMALL CULVERT PIPES

CATEGORY	STAGE	STATION	LOCATION	SIZE	TYPE	203.0100 REMOVING SMALL PIPE CULVERTS EACH
0010	1	317+92	STH 33	24X36 INCH	CMCP	1
0010	2	399+81	STH 33	42X72 INCH	CMCP	1
0010	2	416+44	STH 33	30X45 INCH	CMCP	1
0010	2	427+04	STH 33	33X48 INCH	CMCP	1
0010	2	452+78	STH 33	30X45 INCH	CMCP	1
0010	3	467+10	STH 33	36 INCH	CMCP	1
0010	3	474+31	STH 33	30 INCH	CMCP	1
0010	3	485+21	STH 33	30 INCH	CMCP	1
0010	3	493+11	STH 33	30 INCH	CMCP	1
0010	3	504+31	STH 33	36X57 INCH	CMCP	1
0010	3	515+68	STH 33	24X36 INCH	CMCP	1
0010	3	532+55	STH 33	36 INCH	CMCP	1
					TOTAL:	12

PAVEMENT REMOVAL

CATEGORY	STAGE	STATION	TO	STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	SPV.0180.01 SPECIAL (01. REMOVING DISTRESSED PAVEMENT MILLING) SY	REMARKS
0010	3	297+58	-	302+30	STH 33/STH 73 INTERSECTION	6072	-	-	-	
0010	4	302+30	-	359+00	STH 33	-	-	20275	610	USING 3% OF THE AREA FOR REMOVING DISTRESSED PAVEMENT MILLING
0010	4	359+00	-	421+00	STH 33	-	-	20667	620	USING 3% OF THE AREA FOR REMOVING DISTRESSED PAVEMENT MILLING
0010	4	421+00	-	483+00	STH 33	-	-	24252	730	USING 3% OF THE AREA FOR REMOVING DISTRESSED PAVEMENT MILLING
0010	4	483+00	-	545+05	STH 33	-	-	25240	760	USING 3% OF THE AREA FOR REMOVING DISTRESSED PAVEMENT MILLING
0010	4	8+95 'P'	-	8+95 'P'	PLEASANT ROAD	-	-	67	-	SEE CONSTRUCTION DETAIL - SIDE ROAD DETAIL
0010	4	11+48 'A'	-	11+48 'A'	CTH A	-	-	83	-	SEE CONSTRUCTION DETAIL - SIDE ROAD DETAIL
0010	4	11+21 'H'	-	11+21 'H'	HOWARD DRIVE	-	-	67	-	SEE CONSTRUCTION DETAIL - SIDE ROAD DETAIL
0010	4	11+00 'C'	-	11+00 'C'	CHIEF KUNO TRAIL	-	-	67	-	SEE CONSTRUCTION DETAIL - SIDE ROAD DETAIL
0010	4	10+75 'L'	-	10+75 'L'	LINDEN LANE	-	-	67	-	SEE CONSTRUCTION DETAIL - SIDE ROAD DETAIL
0010	4	10+85 'B'	-	10+85 'B'	BROWER BOULEVARD	-	-	103	-	SEE CONSTRUCTION DETAIL - SIDE ROAD DETAIL
0010	4	545+05	-	545+05	STH 33, END PROJECT	-	90	-	-	SEE CONSTRUCTION DETAIL - BUTT JOINT DETAIL MAINLINE
0010	4				SIDE ROAD CURB AND GUTTER	-	-	950	-	SEE CONSTRUCTION DETAIL - SIDE ROAD DETAIL
					TOTAL 0010	6,072	90	91,838	2,720	

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REMOVING MARKERS

CATEGORY	STATION	LOCATION	SIZE	TYPE	204.0180 REMOVING DELINEATORS AND MARKERS EACH
0010	764+52 'S'	STH 73	18-INCH	RCCP	-
0010	301+08	STH 33	24-INCH	RCCP	-
0010	317+92	STH 33	24X36 INCH	CMCP	2
0010	318+27	STH 33	72-INCH	CMCP	-
0010	339+74	STH 33	36 INCH	CMCP	-
0010	340+08	STH 33	72-INCH	CMCP	-
0010	372+74	STH 33	42X60 INCH	CMCP	-
0010	399+81	STH 33	42X72 INCH	CMCP	2
0010	416+44	STH 33	30X45 INCH	CMCP	2
0010	427+04	STH 33	33X48 INCH	CMCP	2
0010	452+78	STH 33	30X45 INCH	CMCP	2
0010	467+10	STH 33	36 INCH	CMCP	2
0010	474+31	STH 33	30 INCH	CMCP	2
0010	485+21	STH 33	30 INCH	CMCP	2
0010	493+11	STH 33	30 INCH	CMCP	2
0010	504+31	STH 33	36X57 INCH	CMCP	2
0010	515+68	STH 33	24X36 INCH	CMCP	2
0010	532+55	STH 33	36 INCH	CMCP	2
			TOTAL 0010		24

EXCAVATION COMMON SUMMARY

CATEGORY	LOCATION	205.0100 EXCAVATION COMMON CY
0010	CULVERT REPLACEMENTS	6,005
	TOTAL 0010	6,005

BACKFILL SUMMARY

CATEGORY	LOCATION	209.2500 BACKFILL GRANULAR GRADE 2 TON
0010	CULVERT REPLACEMENTS	6,461
	TOTAL 0010	6,461

PREPARE FOUNDATION ASPHALTIC

CATEGORY	LOCATION	211.0101.01 PREPARE FOUNDATION FOR ASPHALTIC PAVING (6070-01-63) EACH	REMARKS
0010	PROJECT 6070-01-63	1	STH 33 (STA 297+58 - STA 545+05), STH 73 (STA 760+78'S' - STA 766+45'S'
	TOTAL 0010	1	

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PREPARE FOUNDATION SHOULDERS

CATEGORY	STATION	TO	STATION	LOCATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA
0020	302+30	-	462+00	STH 33	319
				TOTAL 0010	319

BASE AGGREGATE

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	REMARKS
0010	297+58	-	302+30	STH 33/STH 73 INTERSECTION	2	-	-	PLACEMENT OF MATERIAL TO BE DIRECTED BY ENGINEER
0010	302+30	-	462+00	STH 33	49	-	-	PLACEMENT OF MATERIAL TO BE DIRECTED BY ENGINEER
0010	462+00	-	545+05	STH 33	23	-	-	PLACEMENT OF MATERIAL TO BE DIRECTED BY ENGINEER
0010				CULVERT REPLACEMENTS	77	889	901	
0010				UNDISTRIBUTED	10	51	49	PLACEMENT OF MATERIAL TO BE DIRECTED BY ENGINEER
				TOTAL 0010	160	940	950	

SHAPING SHOULDERS

CATEGORY	STATION	TO	STATION	LOCATION	305.0500 SHAPING SHOULDERS STA
0010	297+58	-	302+30	STH 33/STH 73 INTERSECTION	9
0010	302+30	-	462+00	STH 33	319
0010	462+00	-	545+05	STH 33	166
				TOTAL 0010	494

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ASPHALT PAVEMENT

					455.0605	460.6224	460.6424	465.0105	465.0110
CATEGORY	STATION	TO	STATION	LOCATION	TACK COAT GAL	HMA PAVEMENT 4 MT 58-28 S TON	HMA PAVEMENT 4 MT 58-28 H TON	ASPHALTIC SURFACE TON	ASPHALTIC SURFACE PATCHING TON
0010	297+58	-	302+30	STH 33/STH 73 INTERSECTION	425	-	1785	-	-
0010	302+30	-	359+00	STH 33	2417	1,974	1974	-	-
0010	359+00	-	421+00	STH 33	2458	2,008	2008	-	-
0010	421+00	-	483+00	STH 33	2870	2,344	2344	-	-
0010	483+00	-	545+05	STH 33	2976	2,430	2430	-	-
0010				CULVERT REPLACEMENTS	106	-	-	358	
0010	302+30	-	545+05	DISTRESSED PAVEMENT MILLING AREAS	136	-	-	-	457
0010				UNDISTRIBUTED	117	89	109	37	48
				TOTAL 0010	11,505	8,845	10,650	395	505
0020	302+30	-	462+00	SHOULDER WIDENING UNDISTRIBUTED	682	668	668	-	-
				TOTAL 0020	682	668	668	0	0
				TOTAL	12,187	9,513	11,318	395	505

PWL MIXTURE USE TABLE

LOCATION	STATION	TO	STATION	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS (INCHES)	QUALITY MANAGEMENT PROGRAM TO BE USED FOR MIXTURE ACCEPTANCE	QUALITY MANAGEMENT PROGRAM TO BE USED FOR DENSITY ACCEPTANCE
12' DRIVING LANE	297+58	-	302+30	UPPER LAYER	4 MT 58-28 H	4 MT 58-28 H	160	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY HMA PAVEMENT 460.2000
12' DRIVING LANE	297+58	-	302+30	LOWER LAYER	BASE AGGREGATE	4 MT 58-28 H	210	3	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY HMA PAVEMENT 460.2000
5' SHOULDER/TURN LANE/SIDE ROADS	297+58	-	302+30	UPPER LAYER	4 MT 58-28 H	4 MT 58-28 H	610	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2); NOT ELIGIBLE FOR INCENTIVE
5' SHOULDER/TURN LANE/SIDE ROADS	297+58	-	302+30	LOWER LAYER	BASE AGGREGATE	4 MT 58-28 H	810	3	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2); NOT ELIGIBLE FOR INCENTIVE
12' DRIVING LANE	302+30	-	462+00	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 H	4170	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
12' DRIVING LANE	302+30	-	462+00	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	4170	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
3' SHOULDER/TURN LANE/SIDE ROADS	302+30	-	462+00	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 H	1230	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2); NOT ELIGIBLE FOR INCENTIVE
3' SHOULDER/TURN LANE/SIDE ROADS	302+30	-	462+00	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	1230	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2); NOT ELIGIBLE FOR INCENTIVE
2' SHOULDER WIDENING	302+30		462+00	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 H	1340	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2); NOT ELIGIBLE FOR INCENTIVE
2' SHOULDER WIDENING	302+30		462+00	LOWER LAYER	BASE AGGREGATE	4 MT 58-28 S	1340	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2); NOT ELIGIBLE FOR INCENTIVE
12' DRIVING LANE	462+00	-	545+05	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 H	2170	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
12' DRIVING LANE	462+00	-	545+05	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	2170	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
5' SHOULDER/TURN LANE/PASSING LANE/SIDE ROADS	462+00	-	545+05	UPPER LAYER	4 MT 58-28 S	4 MT 58-28 H	1280	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2); NOT ELIGIBLE FOR INCENTIVE
5' SHOULDER/TURN LANE/PASSING LANE/SIDE ROADS	462+00	-	545+05	LOWER LAYER	MILLED EXISTING HMA SURFACE	4 MT 58-28 S	1280	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	DEPARTMENT ACCEPTANCE (SS 460.3.3.2); NOT ELIGIBLE FOR INCENTIVE
VARIOUS	297+58	-	545+05	CULVERT REPLACEMENTS - UPPER LAYER	ASPHALTIC SURFACE	ASPHALTIC SURFACE	100	1.75	SS 465	ACCEPTANCE BY ORDINARY COMPACTION (SS 450.3.2.6.2)
VARIOUS	297+58	-	545+05	CULVERT REPLACEMENTS - MIDDLE LAYER	ASPHALTIC SURFACE	ASPHALTIC SURFACE	100	1.75	SS 465	ACCEPTANCE BY ORDINARY COMPACTION (SS 450.3.2.6.2)
VARIOUS	297+58	-	545+05	CULVERT REPLACEMENTS - LOWER LAYER	BASE AGGREGATE	ASPHALTIC SURFACE	150	2.5	SS 465	ACCEPTANCE BY ORDINARY COMPACTION (SS 450.3.2.6.2)
VARIOUS	297+58	-	545+05	REMOVING DISTRESSED ASPHALTIC SURFACE MILLING	BASE AGGREGATE/MILLED EXISTING HMA SURFACE	ASPHALTIC SURFACE	300	3	SS 465	ACCEPTANCE BY ORDINARY COMPACTION (SS 450.3.2.6.2)

ASPHALT DRIVEWAYS

CATEGORY	STATION	LOCATION	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
0010	302+40	STH 33, LT	3
0010	302+87	STH 33, RT	3
0010	305+83	STH 33, RT	2
0010	315+34	STH 33, LT	3
0010	320+75	STH 33, RT	3
0010	322+97	STH 33, RT	3
0010	328+02	STH 33, LT	3
0010	338+04	STH 33, RT	3
0010	338+65	STH 33, LT	3
0010	341+93	STH 33, RT	3
0010	341+94	STH 33, LT	3
0010	343+79	STH 33, LT	3
0010	357+35	STH 33, LT	3
0010	368+24	STH 33, LT	3
0010	371+13	STH 33, RT	3
0010	371+68	STH 33, LT	3
0010	373+30	STH 33, RT	3
0010	381+41	STH 33, LT	3
0010	394+28	STH 33, RT	3
0010	394+77	STH 33, LT	3
0010	399+19	STH 33, RT	2
0010	405+64	STH 33, RT	3
0010	409+08	STH 33, LT	3
0010	410+13	STH 33, LT	3
0010	410+20	STH 33, RT	3
0010	414+33	STH 33, LT	3
0010	423+07	STH 33, LT	3
0010	431+65	STH 33, RT	3
0010	431+72	STH 33, LT	3
0010	434+34	STH 33, RT	3
0010	437+85	STH 33, RT	3
0010	442+63	STH 33, LT	3
0010	444+49	STH 33, RT	3
0010	447+22	STH 33, RT	3
0010	458+43	STH 33, RT	3
0010	463+81	STH 33, RT	3
0010	469+69	STH 33, RT	3
0010	469+83	STH 33, LT	3
0010	477+87	STH 33, LT	3
0010	479+86	STH 33, RT	3
0010	481+66	STH 33, RT	3
0010	481+80	STH 33, LT	3
0010	487+30	STH 33, LT	3
0010	491+20	STH 33, RT	3
0010	497+42	STH 33, LT	3
0010	498+27	STH 33, RT	3
0010	505+83	STH 33, LT	3
0010	506+86	STH 33, LT	3
0010	508+41	STH 33, RT	3
0010	508+74	STH 33, LT	3
0010	510+72	STH 33, LT	3
0010	521+85	STH 33, RT	3
0010	523+84	STH 33, RT	3
0010	535+19	STH 33, RT	13
0010	539+00	STH 33, RT	3
0010	540+58	STH 33, RT	3
0010	542+19	STH 33, RT	3
0010	761+58	STH 73, LT	3
0010	761+69	STH 73, RT	3
		TOTAL 0010	185

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HMA PWL

CATEGORY	LOCATION	460.0105.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP VOLUMETRICS EACH	460.0110.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP DENSITY EACH
0010	PROJECT 6070-01-63	1	2
	TOTAL 0010	1	2

SHOULDER RUMBLE STRIPS

CATEGORY	STATION	TO	STATION	LOCATION	465.0525 ASPHALTIC RUMBLE STRIPS, SHOULDER SINUSOIDAL LF
0020	302+50	-	529+15	STH 33, LT	21,390
0020	302+50	-	529+15	STH 33, RT	22,380
				TOTAL 0020	43,770

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INTERSECTION RUMBLE STRIPS

CATEGORY	STATION	LOCATION	465.0580 ASPHALTIC RUMBLE STRIPS, TRANSVERSE SY
0010	304+50	STH 33, LT	33
0010	306+75	STH 33, LT	33
0010	310+75	STH 33, LT	33
		TOTAL 0010	99

CENTERLINE RUMBLE STRIPS

CATEGORY	STATION	TO	STATION	LOCATION	465.0565 ASPHALTIC RUMBLE STRIPS, CENTERLINE SINUSOIDAL LF
0010	302+50	-	529+15	STH 33	21,100
				TOTAL 0010	21,100

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CULVERT PIPES

CATEGORY	STAGE	INLET STATION	INLET OFFSET	INLET ELEVATION	OUTLET STATION	OUTLET OFFSET	OUTLET ELEVATION	LOCATION	SLOPE	522.0430 CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	522.0436 CULVERT PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF	522.2324 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 24X38-INCH LF	522.2334 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34X53-INCH LF	522.2424 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 24X38-INCH LF	522.2434 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 34X53-INCH LF	SPV.0090.01 SPECIAL (CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE -IV 48X76-INCH) LF	SPV.0090.02 SPECIAL (CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 38X60) LF
0010	1	317+92	42.10 RT	937.74	317+92	45.89 LT	936.50	STH 33	1.40%	-	-	88	-	-	-	-	-
0010	2	399+81	23.79 RT	928.59	399+81	24.21 LT	928.28	STH 33	0.63%	-	-	-	-	-	-	48	-
0010	2	416+44	23.89 RT	922.82	416+44	24.11 LT	922.57	STH 33	0.54%	-	-	-	-	-	48	-	-
0010	2	427+04	21.72 RT	920.79	427+04	23.68 LT	920.35	STH 33	0.98%	-	-	-	-	-	46	-	-
0010	2	452+78	35.83 LT	911.54	452+78	33.60 RT	911.21	STH 33	0.48%	-	-	-	70	-		-	-
0010	3	467+10	22.92 LT	915.20	467+10	24.36 RT	914.87	STH 33	0.71%	-	48	-	-	-	-	-	-
0010	3	474+31	29.19 LT	909.91	474+31	30.71 RT	909.61	STH 33	0.50%	60	-	-	-	-	-	-	-
0010	3	485+21	24.48 RT	908.61	485+21	25.52 LT	908.36	STH 33	0.51%	50	-	-	-	-	-	-	-
0010	3	493+11	31.64 RT	903.83	493+11	30.35 LT	903.28	STH 33	0.90%	62	-	-	-	-		-	-
0010	3	504+31	26.55 RT	898.15	504+31	27.45 LT	897.88	STH 33	0.52%	-	-	-		-	-	-	54
0010	3	515+68	36.47 LT	901.68	515+68	29.67 RT	901.35	STH 33	0.50%	-	-	-	-	66	-	-	-
0010	3	532+55	26.41 LT	907.09	532+55	27.59 RT	906.82	STH 33	0.51%	-	54	-	-	-	-	-	-
								TOTAL 0010		172	102	88	70	66	94	48	54

APRON ENDWALLS

CATEGORY	STAGE	INLET STATION	INLET OFFSET	INLET ELVATION	OUTLET STATION	OUTLET OFFSET	OUTLET ELEVATION	LOCATION	PIPE SIZE	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	522.2624 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH EACH	522.2634 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH EACH	522.2638 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 38X60-INCH EACH	522.2648 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 48X76-INCH EACH	633.5200 MARKERS CULVERT END EACH	JOINT TIES * EACH
0010	1	317+92	48.39 RT	937.85	317+92	53.17 LT	936.08	STH 33	24X38 INCH	-	-	2	-	-	-	2	6
0010	2	399+81	31.45 RT	928.60	399+81	31.55 LT	928.30	STH 33	48X76 INCH	-	-	-	-	-	2	2	6
0010	2	416+44	32.18 RT	922.87	416+44	32.33 LT	922.55	STH 33	34X53 INCH	-	-	-	2	-	-	2	6
0010	2	427+04	29.73 RT	920.87	427+04	31.71 LT	920.26	STH 33	34X53 INCH	-	-	-	2	-	-	2	6
0010	2	452+78	47.00 LT	910.79	452+78	44.96 RT	910.33	STH 33	34X53 INCH	-	-	-	2	-	-	2	6
0010	3	467+10	30.81 LT	915.25	467+10	32.25 RT	914.81	STH 33	36 INCH	-	2	-	-	-	-	2	6
0010	3	474+31	35.01 LT	909.94	474+31	36.52 RT	909.58	STH 33	30 INCH	2	-	-	-	-	-	2	6
0010	3	485+21	30.50 RT	908.65	485+21	31.55 LT	908.33	STH 33	30 INCH	2	-	-	-	-	-	2	6
0010	3	493+11	36.98 RT	903.88	493+11	36.16 LT	903.22	STH 33	30 INCH	2	-	-	-	-	-	2	6
0010	3	504+31	37.82 RT	897.29	504+31	38.79 LT	896.91	STH 33	38X60 INCH	-	-	-	-	2	-	2	6
0010	3	515+68	42.34 LT	901.79	515+68	38.30 RT	900.62	STH 33	24X38 INCH	-	-	2	-	-	-	2	6
0010	3	532+55	35.33 LT	906.93	532+55	36.64 RT	906.57	STH 33	36 INCH	-	2	-	-	-	-	2	6
								TOTAL 0010		6	4	4	6	2	2	24	

* FOR INFORMATIONAL ONLY

3

WATER

CATEGORY	LOCATION	623.0200 DUST CONTROL SURFACE TREATMENT SY	624.0100 WATER MGAL
0010	PROJECT 6070-01-63	23,751	60.6
	TOTAL 0010	23,751	60.6

EC MOBILIZATION

CATEGORY	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	PROJECT 6070-01-63	5	3
	TOTAL 0010	5	3

3

EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	606.0100 RIPRAP LIGHT CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2002 EROSION MAT CLASS I TYPE A SY	628.7555 CULVERT PIPE CHECKS EACH	645.0130 GEOTEXTILE TYPE R SY
0010	301+08	-	301+08	STH 33	-	-	-	-	-	-
0010	317+37	-	318+47	STH 33	2	120	120	585	5	5
0010	339+74	-	339+74	STH 33	-	-	-	-	-	-
0010	372+74	-	372+74	STH 33	-	-	-	-	-	-
0010	399+26	-	400+36	STH 33	7	134	134	437	9	22
0010	415+89	-	416+99	STH 33	5	135	135	479	6	16
0010	426+49	-	427+59	STH 33	5	130	130	384	6	16
0010	452+23	-	453+33	STH 33	4	127	127	509	6	13
0010	466+55	-	467+65	STH 33	5	129	129	334	5	14
0010	473+76	-	474+86	STH 33	4	148	148	506	4	11
0010	484+66	-	485+76	STH 33	4	135	135	356	4	11
0010	492+56	-	493+66	STH 33	4	119	119	373	4	11
0010	503+76	-	504+76	STH 33	6	130	130	427	7	18
0010	515+13	-	516+23	STH 33	4	115	115	397	5	11
0010	532+00	-	533+10	STH 33	5	130	130	373	5	14
0010				UNDISTRIBUTED	15	68	68	520	7	38
				TOTAL 0010	70	1,620	1,620	5,680	73	200

3

3

INLET PROTECTION

CATEGORY	STATION	O/S	LOCATION	628.7010 INLET PROTECTION TYPE B EACH
0010	761+15 'S'	LT	STH 33	2
0010	764+52 'S'	LT	STH 33	2
			TOTAL 0010	4

LANDSCAPING

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
0010	317+37	-	318+47	STH 33	585	0.4	26	16	6.6
0010	399+26	-	400+36	STH 33	437	0.3	20	12	4.9
0010	415+89	-	416+99	STH 33	479	0.3	22	13	5.4
0010	426+49	-	427+59	STH 33	384	0.2	17	10	4.3
0010	452+23	-	453+33	STH 33	509	0.3	23	14	5.7
0010	466+55	-	467+65	STH 33	334	0.2	15	9	3.8
0010	473+76	-	474+86	STH 33	506	0.3	23	14	5.7
0010	484+66	-	485+76	STH 33	356	0.2	16	10	4.0
0010	492+56	-	493+66	STH 33	373	0.2	17	10	4.2
0010	503+76	-	504+76	STH 33	427	0.3	19	12	4.8
0010	515+13	-	516+23	STH 33	397	0.2	18	11	4.5
0010	532+00	-	533+10	STH 33	373	0.2	17	10	4.2
0010				UNDISTRIBUTED	520	0.3	27	19	5.8
				TOTAL 0010	5,680	3.4	260	160	63.9

3

MOVING SIGNS

CATEGORY	STATION	LOCATION	SIGN MESSAGE	638.2102 MOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	REMARKS
0010	STA 313+24 RT	STH 33	NO PASSING ZONE	1	1	1	W14-3
0010	STA 341+50 LT	STH 33	NO PASSING ZONE	1	1	1	W14-3
0010	STA 365+40 RT	STH 33	NO PASSING ZONE	1	1	1	W14-3
0010	STA 376+30 LT	STH 33	NO PASSING ZONE	1	1	1	W14-3
0010	STA 393+60 RT	STH 33	NO PASSING ZONE	1	1	1	W14-3
0010	STA 439+50 LT	STH 33	NO PASSING ZONE	1	1	1	W14-3
0010	STA 458+15 RT	STH 33	NO PASSING ZONE	1	1	1	W14-3
0010	STA 471+00 LT	STH 33	NO PASSING ZONE	1	1	1	W14-3
0010	STA 525+00 RT	STH 33	NO PASSING ZONE	1	1	1	W14-3
0010	STA 532+60 RT	STH 33	MUNICIPALITY POPULATION SIGN	1	2	2	I2-3 (FOX LAKE POPULATION 1,604)
0010	STA 533+50 LT	STH 33	NO PASSING ZONE	1	1	1	W14-3
		TOTAL 0010		11	12	12	

3

TRAFFIC CONTROL

CATEGORY	STAGE	DURATION CALENDER DAYS*	LOCATION	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	** 643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II SIGNS	# CYCLES	EACH	*** 643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	**** 643.1500 TRAFFIC CONTROL SPEED FEEDBACK TRAILER DAY	643.5000 TRAFFIC CONTROL EACH
0010	DETOUR (STAGE 1-4)	90	STH 33	2,340	4,680	25,970	7	1	7	28	180	-
0010			UNDISTRIBUTED	240	480	2,605	-	-	-	-	-	-
0010			PROJECT 6070-01-63	-	-	-	-	-	-	-	-	1
			TOTAL 0010	2,580	5,160	28,575		7		28	180	1

* FOR INFORMATION ONLY
** COVERING SIGNS IS FOR ONE CYCLE.
***PCMS TO BE IN PLACE 7 DAYS PRIOR TO CONSTRUCTION. SEE PCMS OVERVIEW FOR MORE INFORMATION.
*** ASSUMES TWO SPEED FEEDBACK TRAILERS FOR DURATION OF THE PROJECT. LOCATION OF TRAILERS TO BE DETERMINED BY ENGINEER.

TEMP PAVEMENT MARKINGS

CATEGORY	LOCATION	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH LF	643.3265 TEMPORARY MARKING LINE PAINT 10-INCH LF	643.3505 TEMPORARY MARKING ARROW PAINT EACH	643.3605 TEMPORARY MARKING WORD PAINT EACH	643.3805 TEMPORARY MARKING STOP LINE PAINT 18-INCH LF
0010	STH 33, WHITE	48416	598	2	1	59
0010	STH 73, WHITE	800	424	7	3	77
0010	STH 33, YELLOW	27159	-	-	-	-
0010	STH 73, YELLOW	645	-	-	-	-
0010	UNDISTRIBUTED	1,542	58	-	-	9
	TOTAL 0010	78,562	1,080	9	4	145

PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	646.2020 MARKING LINE EPOXY 6-INCH LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH LF	646.4020 MARKING LINE EPOXY 10-INCH LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH LF	646.5120 MARKING WORD EPOXY EACH	646.5020 MARKING ARROW EPOXY EACH	646.6105 MARKING STOP LINE PAINT 18-INCH LF	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
0010	297+58	-	299+67	STH 33, WHITE	-	334	-	121	-	-	-	29	55	3
0010	760+78	-	764+47	STH 73, WHITE	-	716	-	335	1	4	-	38	138	3
0010	765+94	-	769+00	STH 73, WHITE	-	84	-	89	2	3	-	39	50	1
0010	300+44	-	302+30	STH 33, WHITE	-	296	-	107	-	-	-	30	50	3
0010	302+30	-	462+00	STH 33, WHITE	-	31,757	-	-	-	-	-	-	-	-
0010	10+00	-	11+48	CTH A, WHITE	161	-	94	-	-	-	34	-	-	-
0010	462+00	-	545+05	STH 33, WHITE	-	16,029	-	370	1	2	-	-	-	-
0010	10+00	-	11+21	HOWARD DRIVE, WHITE	74	-	-	-	-	-	-	-	-	-
0010	10+00	-	11+00	CHIEF KUNO TRAIL, WHITE	41	-	-	-	-	-	-	-	-	-
0010	10+00	-	10+85	BROWER BOULEVARD, WHITE	-	-	-	-	-	-	34	-	-	-
0010	297+58	-	299+67	STH 33, YELLOW	-	422	-	-	-	-	-	-	-	-
0010	760+78	-	764+47	STH 73, YELLOW	-	569	-	-	-	-	-	-	-	-
0010	765+94	-	766+45	STH 73, YELLOW	-	76	-	-	-	-	-	-	-	-
0010	300+44	-	302+30	STH 33, YELLOW	-	372	-	-	-	-	-	-	-	-
0010	302+30	-	462+00	STH 33, YELLOW	-	16,796	-	-	-	-	-	-	-	-
0010	10+00	-	11+48	CTH A, YELLOW	228	-	-	-	-	-	-	-	-	-
0010	462+00	-	545+05	STH 33, YELLOW	-	9569	-	-	-	-	-	-	-	-
0010	10+00	-	11+21	HOWARD DRIVE, YELLOW	136	-	-	-	-	-	-	-	-	-
0010	10+00	-	11+00	CHIEF KUNO TRAIL, YELLOW	126	-	-	-	-	-	-	-	-	-
0010	10+00	-	10+85	BROWER BOULEVARD, YELLOW	110	-	-	-	-	-	-	-	-	-
				TOTAL 0010	876	77,020	94	1,022	4	9	68	136	293	10

NO PASSING ZONES

CATEGORY	STATION	TO	STATION	LOCATION	648.0100 LOCATING NO-PASSING ZONES MI
0010	297+58	-	545+05	STH 33	4.69
				TOTAL 0010	4.69

SAWING

CATEGORY	STATION	LOCATION	690.0150 SAWING ASPHALT LF
0010	297+58	STH 33, BEGIN PROJECT	44
0010	760+78 'S'	STH 73	34
0010	766+45 'S'	STH 73	57
0010	317+92	CULVERT	68
0010	8+95 'P'	PLEASANT ROAD	24
0010	399+81	CULVERT	71
0010	416+44	CULVERT	68
0010	427+04	CULVERT	68
0010	452+78	CULVERT	68
0010	11+48 'A'	CTH A	30
0010	467+10	CULVERT	69
0010	474+31	CULVERT	68
0010	11+21 'H'	HOWARD DRIVE	24
0010	485+21	CULVERT	68
0010	493+11	CULVERT	70
0010	11+00 'C'	CHIEF KUNO TRAIL	24
0010	504+31	CULVERT	68
0010	515+68	CULVERT	68
0010	10+75 'L'	LINDEN LANE	24
0010	532+55	CULVERT	72
0010	10+85 'B'	BROWER BOULEVARD	37
0010	545+05	STH 33, END PROJECT	34
0010	PROJECT	DRIVEWAYS	871
		TOTAL 0010	2,029

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (6070-01-63) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	297+58	-	545+05	STH 33	12	24,747	1	1,200
				TOTAL 0010	12	24,747	1	1,200

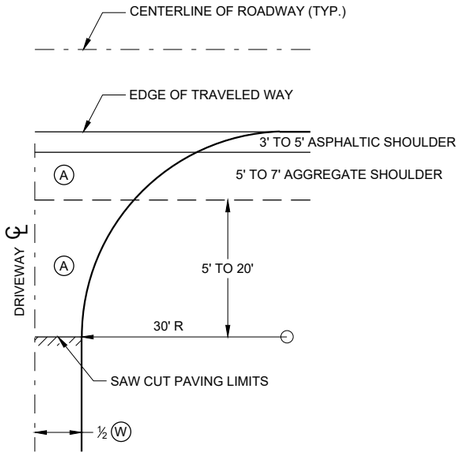
Standard Detail Drawing List

08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13A08-02	TRANSVERSE RUMBLE STRIPS, ASPHALTIC
13A10-03C	SHOULDER RUMBLE STRIPS - ASPHALT SINUSOIDAL
13A10-03G	SHOULDER AND EDGE LINE RUMBLE STRIPS - CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS
13A10-03H	SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES
13A11-04C	CENTERLINE RUMBLE STRIPS - ASPHALT SINUSOIDAL
13A11-04D	CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS
13C19-03	HMA LONGITUDINAL JOINTS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-09H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
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
15C07-16B	PAVEMENT MARKING WORDS
15C07-16C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-09B	TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE
15C18-09A	MEDIAN ISLAND PAVEMENT MARKINGS
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C19-09A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D39-03	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

6

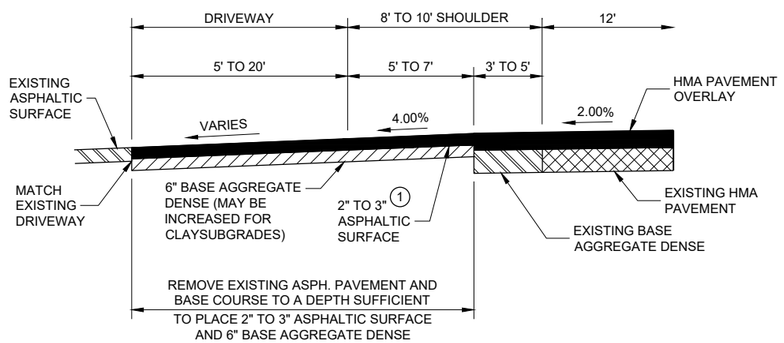
GENERAL NOTES

(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PLAN VIEW

HALF SECTION



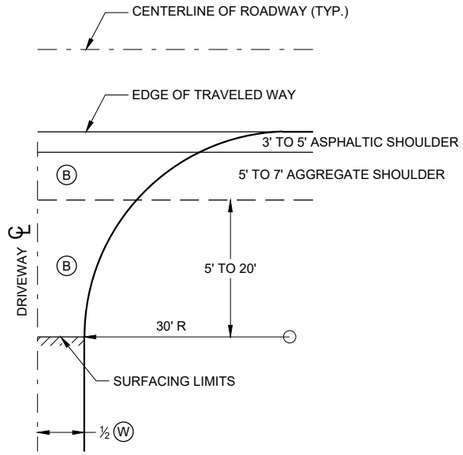
PROFILE VIEW

RURAL ENTRANCE
WITH ASPHALTIC SURFACE
RESURFACING PROJECTS

(A) : PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES. (TON)

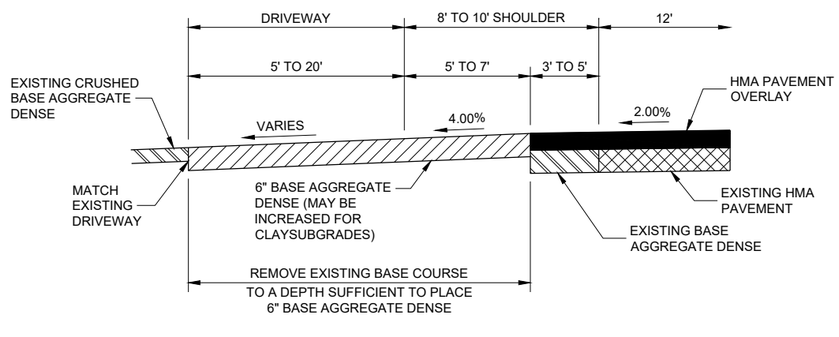
(B) : PAID FOR AS BASE AGGREGATE DENSE 1 ¼" (TON)

(W) : DRIVEWAY WIDTH 16' MIN. - 24' MAX.



PLAN VIEW

HALF SECTION



PROFILE VIEW

RURAL ENTRANCE
WITH AGGREGATE SURFACE
6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

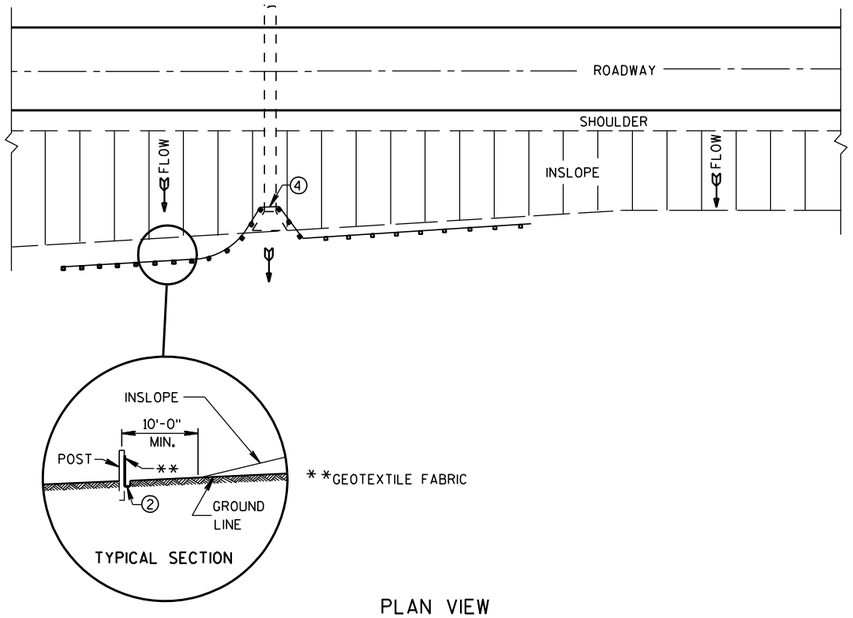
DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

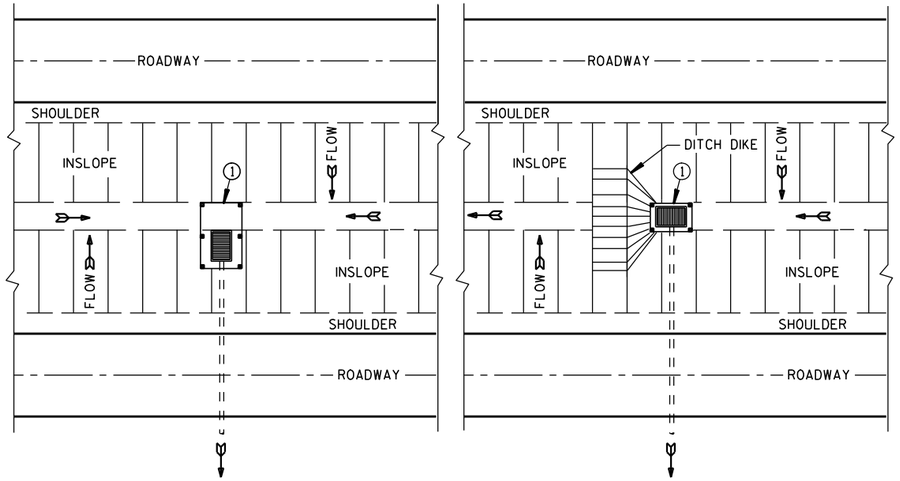
6

SDD 08D22 - 01



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



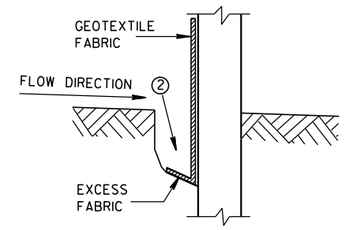
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

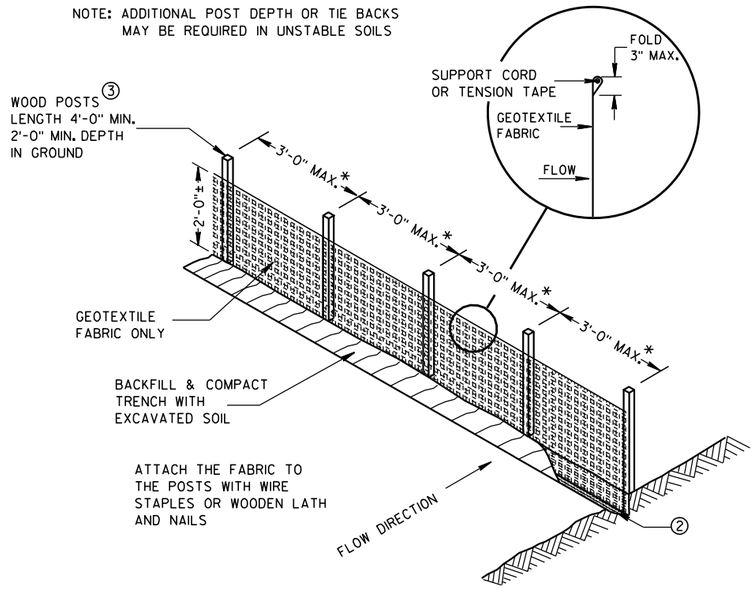
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

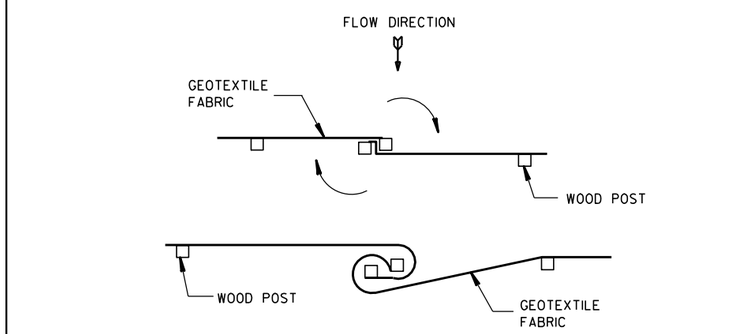
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



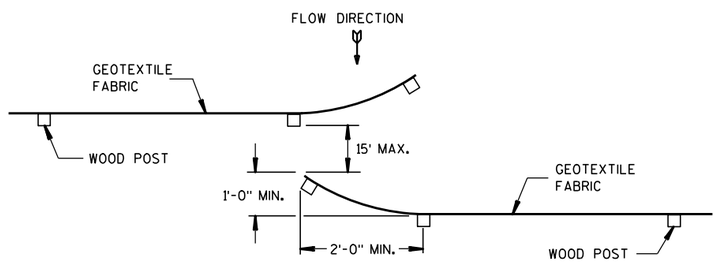
TRENCH DETAIL



SILT FENCE

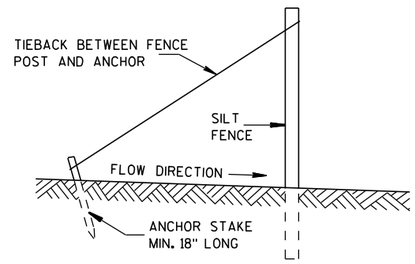


TWIST METHOD



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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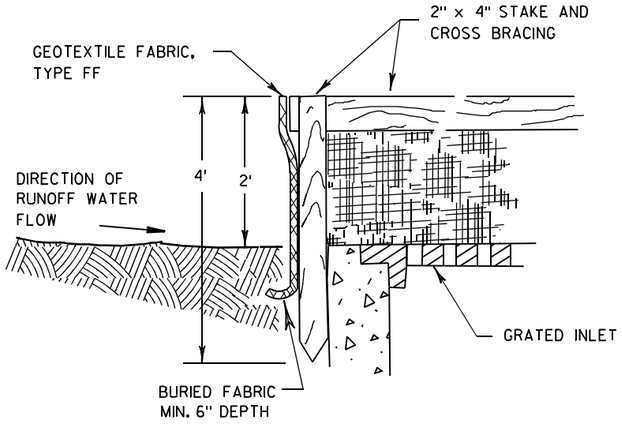
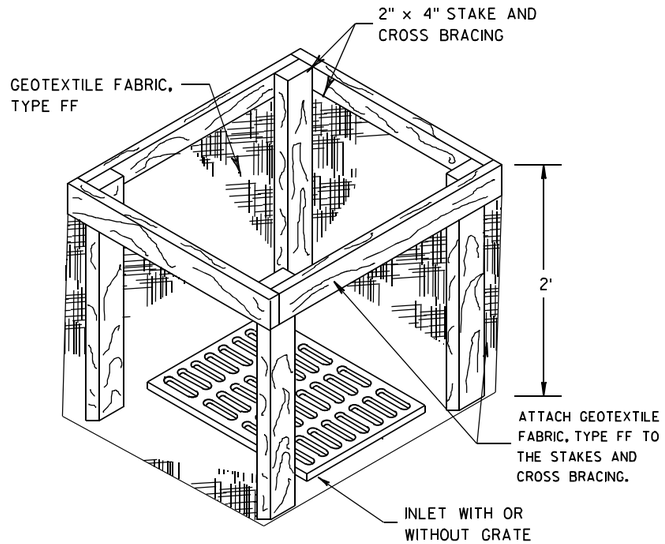
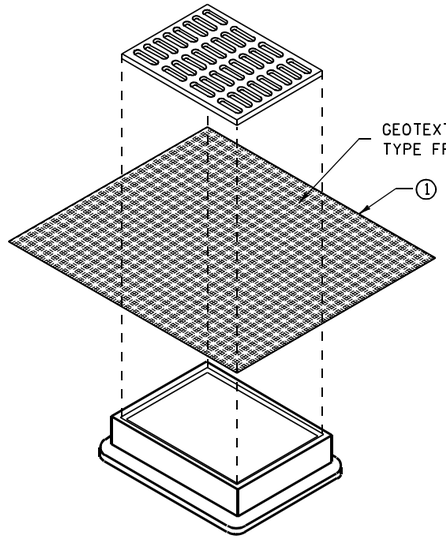
S.D.D. 8 E 9-6



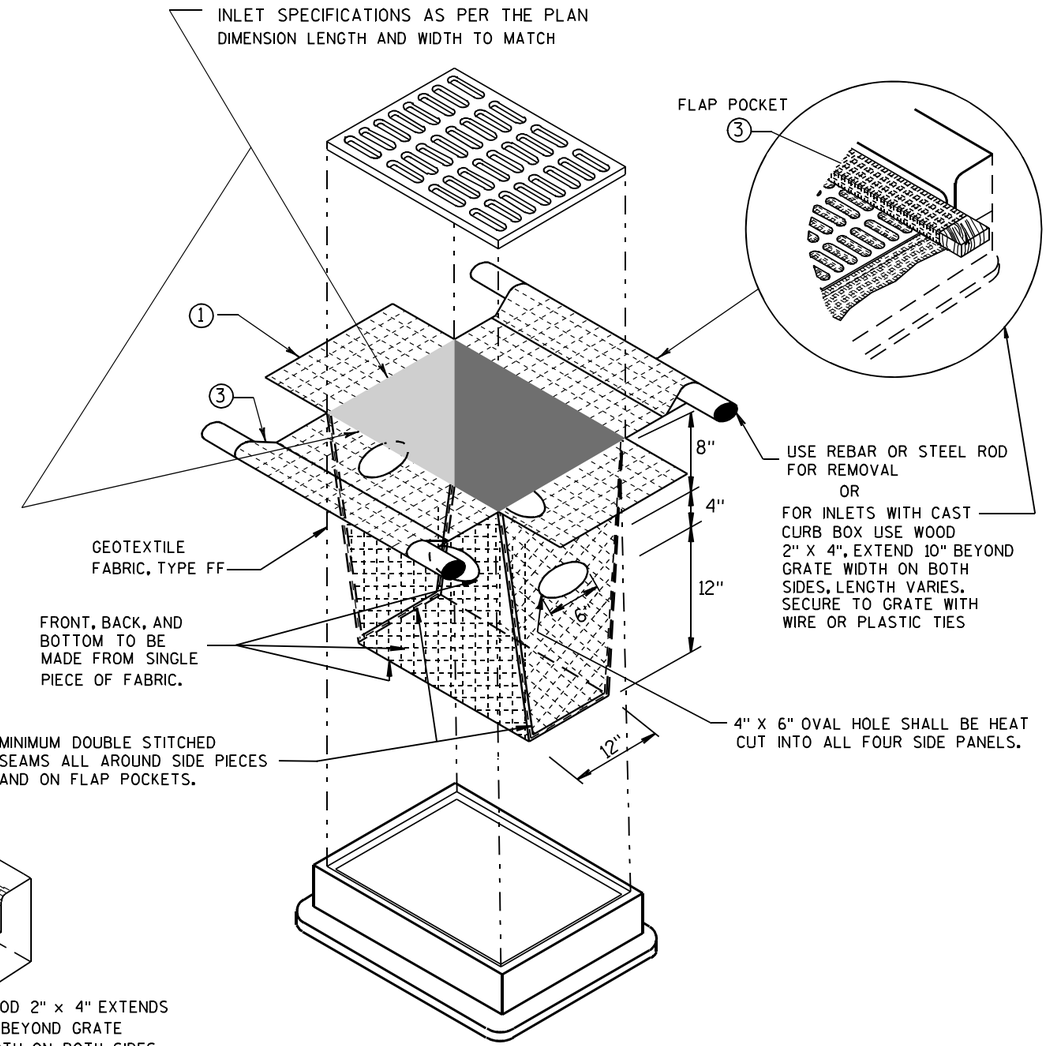


INLET PROTECTION, TYPE A



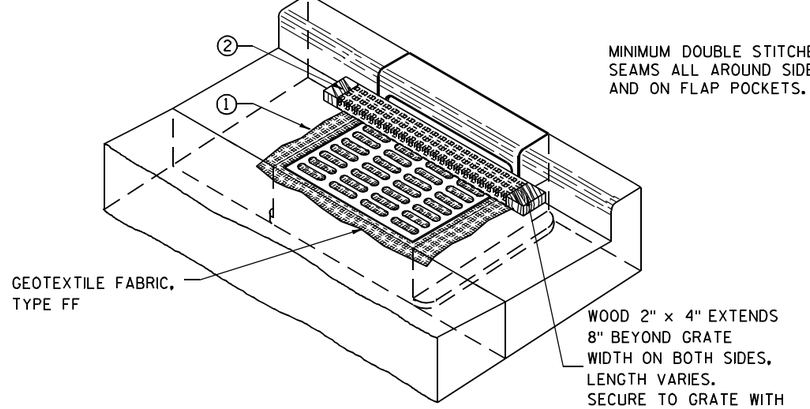
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

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.

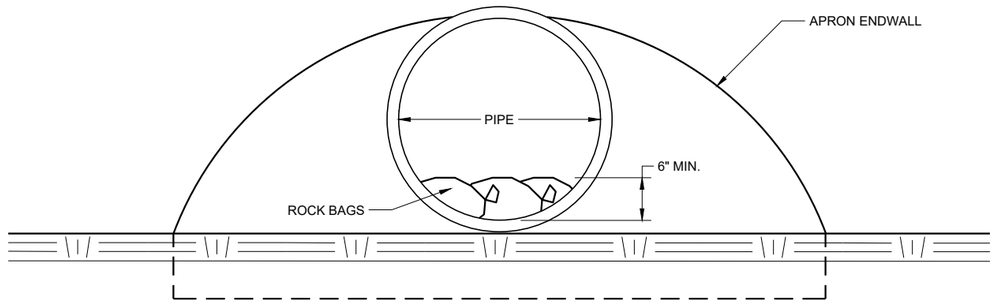
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

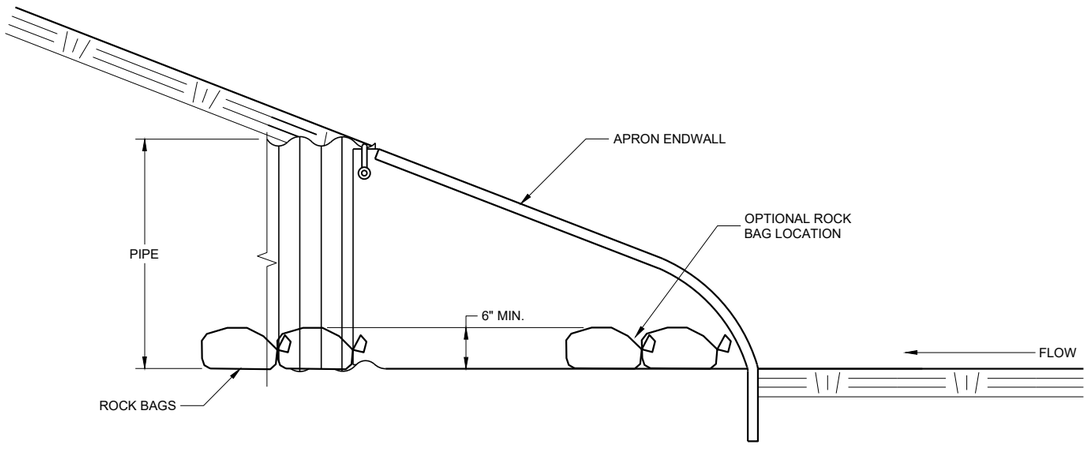
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE	/S/ Daniel Schave EROSION CONTROL ENGI
FHWA	

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

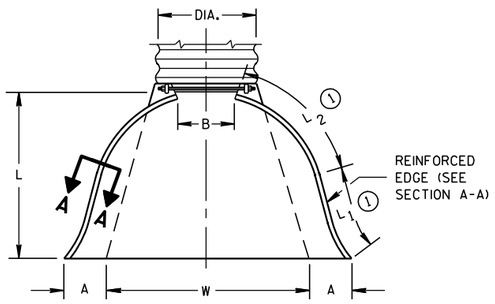
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

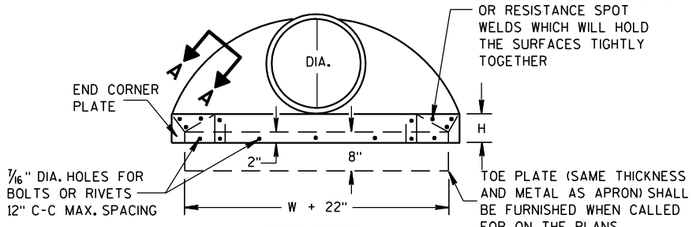
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

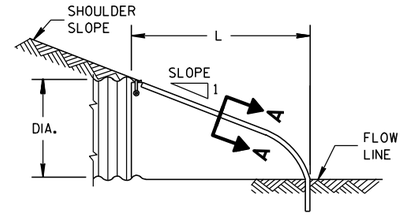
*MINIMUM
**MAXIMUM



PLAN VIEW

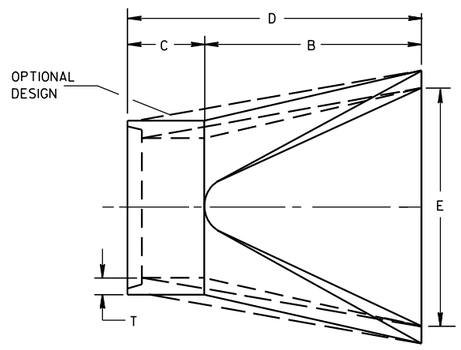


END VIEW

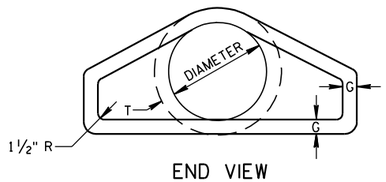


SIDE ELEVATION

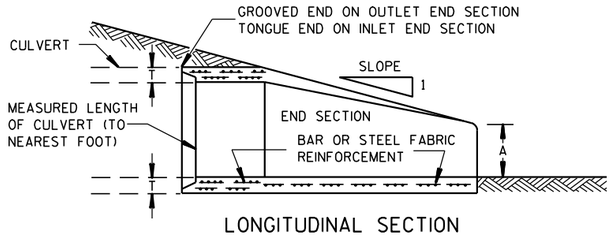
METAL ENDWALLS



PLAN

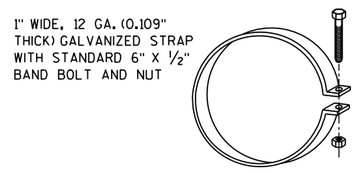


END VIEW



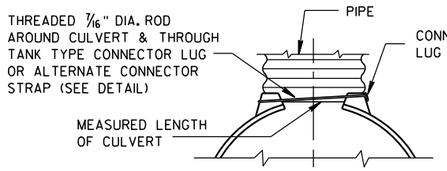
LONGITUDINAL SECTION

CONCRETE ENDWALLS

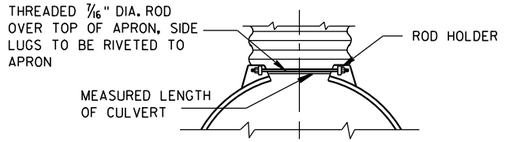


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

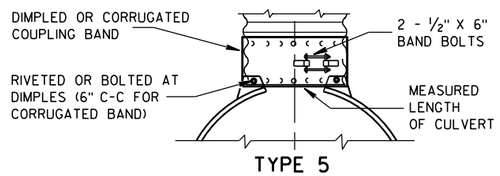


TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE

TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

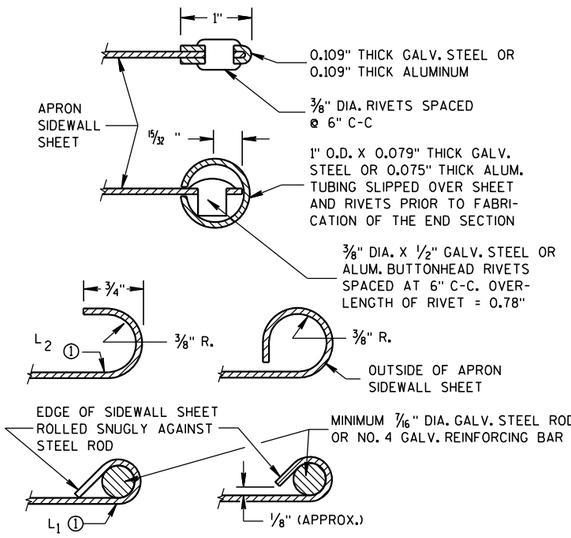
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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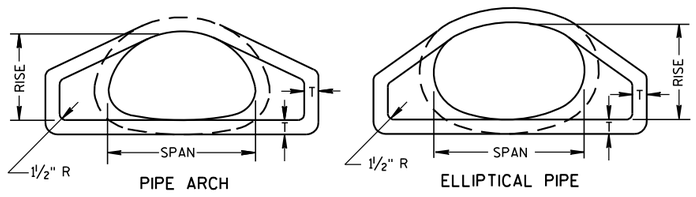
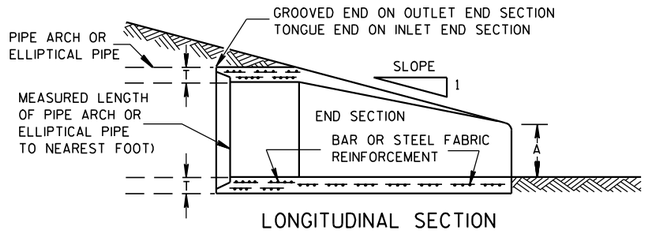
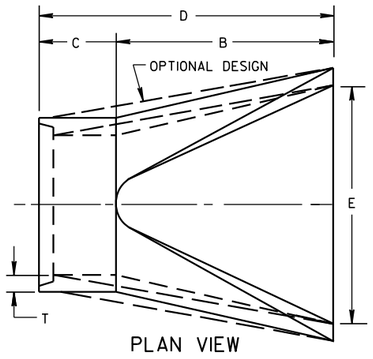
S.D.D. 8 F 1-11



END VIEW

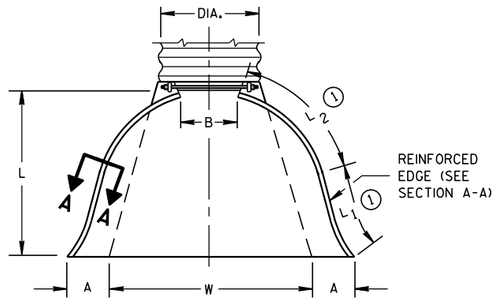


LONGITUDINAL SECTION

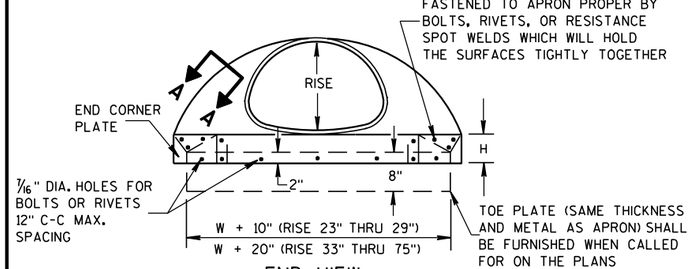


PLAN VIEW

CONCRETE ENDWALLS

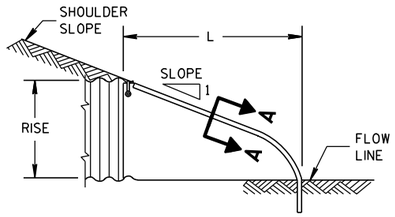


PLAN VIEW



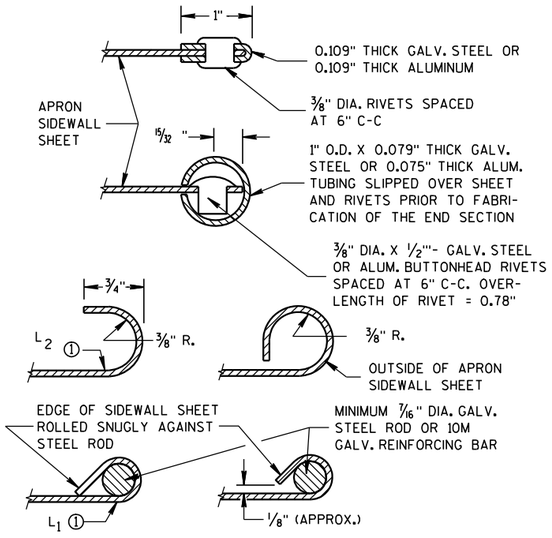
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER

END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

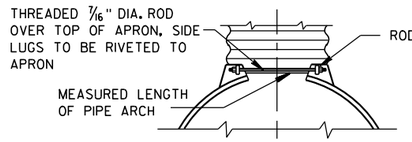
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

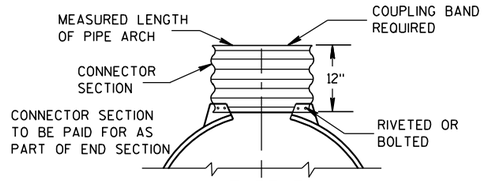
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



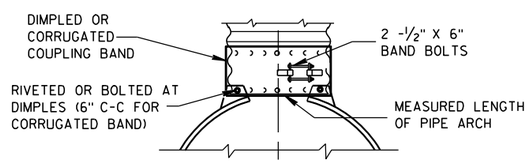
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

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.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

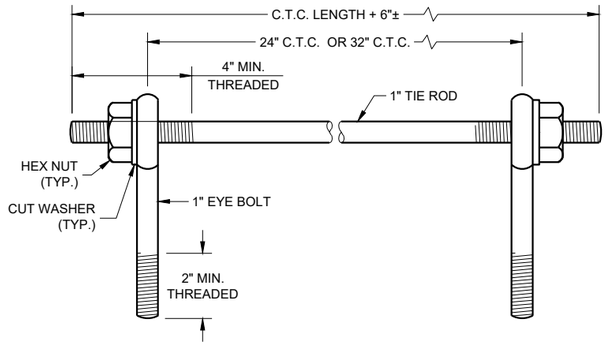
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

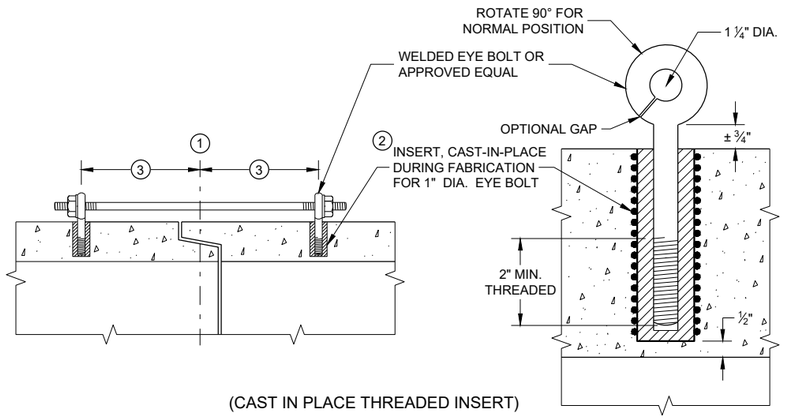
FHWA

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

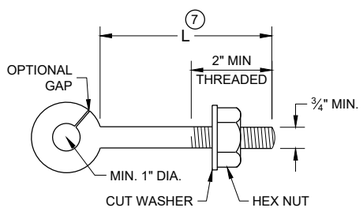
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

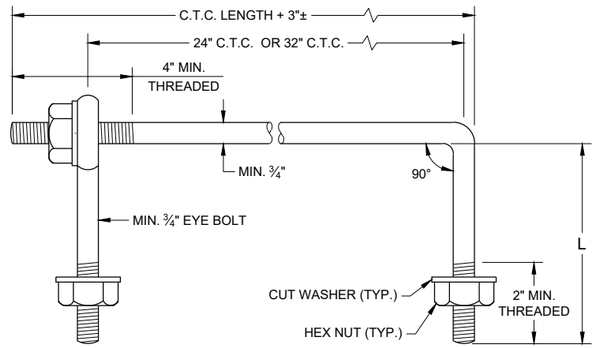
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

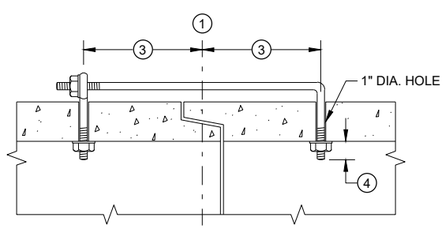


EYE BOLT (7)

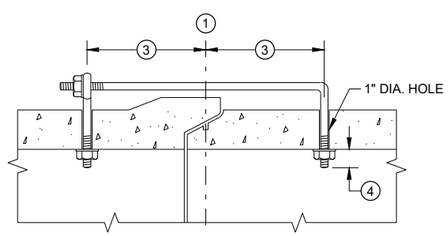
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

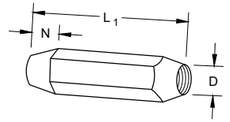
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



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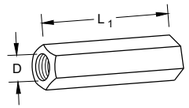
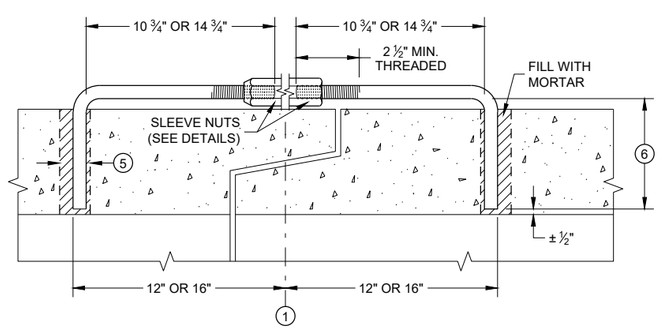


PLAIN

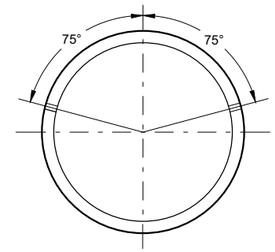
RIGHT AND LEFT THREADS

SLEEVE NUTS



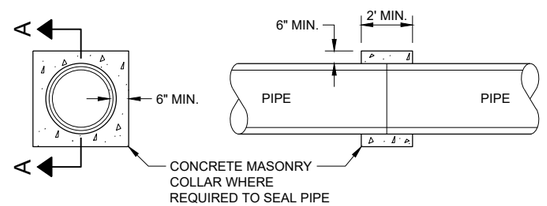
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

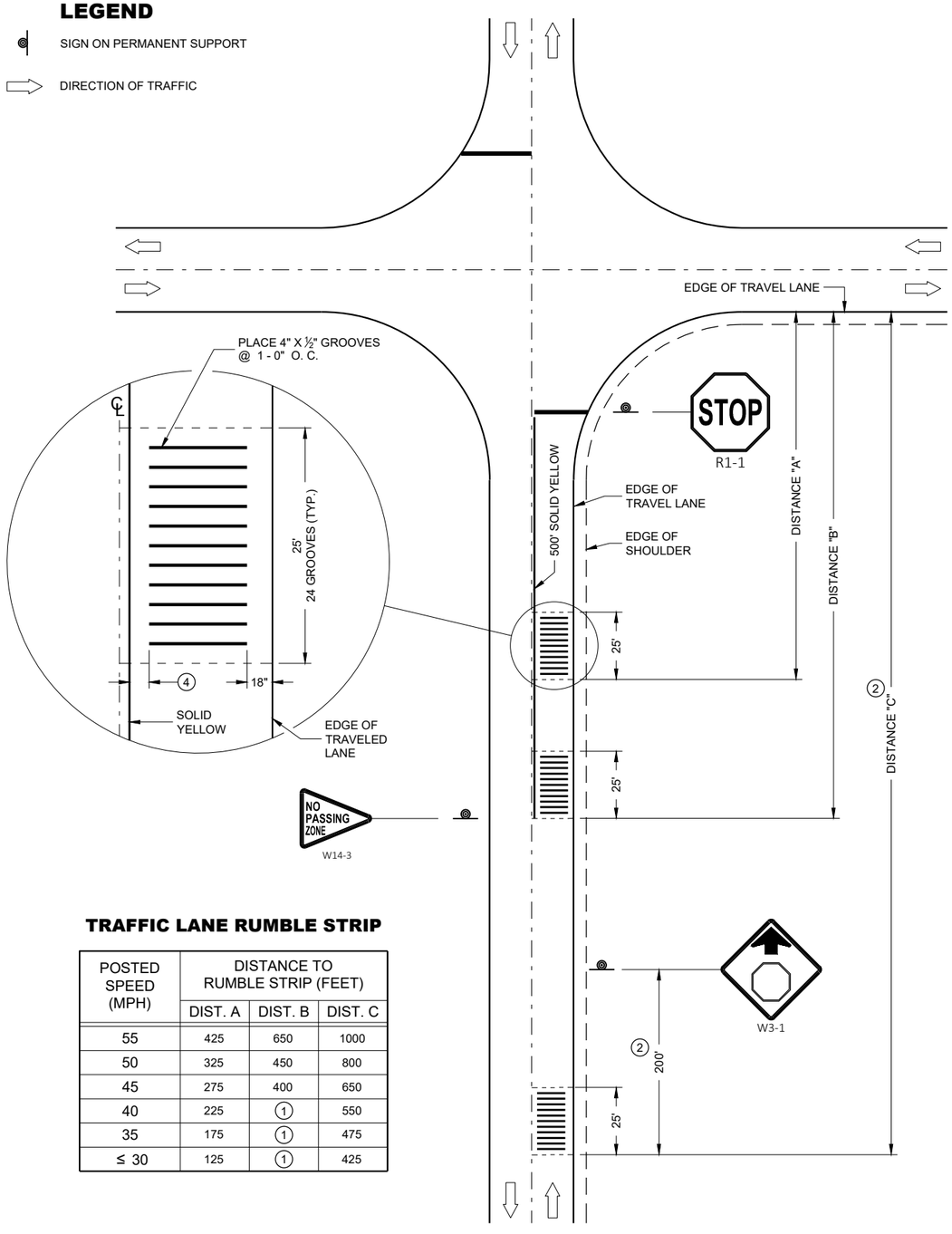
SDD 08F04 - 08

SDD 08F04 - 08

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TRAFFIC LANE RUMBLE STRIP

POSTED SPEED (MPH)	DISTANCE TO RUMBLE STRIP (FEET)		
	DIST. A	DIST. B	DIST. C
55	425	650	1000
50	325	450	800
45	275	400	650
40	225	(1)	550
35	175	(1)	475
≤ 30	125	(1)	425

RUMBLE STRIP LOCATION

GENERAL NOTES

CONTRACTOR SHALL CONFIRM RUMBLE STRIP LOCATION WITH THE ENGINEER PRIOR TO INSTALLATION. THE ENGINEER MAY MODIFY THE RUMBLE STRIP LOCATION AS FIELD CONDITIONS DICTATE.

WHEN ASPHALTIC PAVEMENT IS NEW IN THE RUMBLE AREA, THE CONTRACTOR SHALL ALLOW THE PAVEMENT TO CURE A MINIMUM OF 7 DAYS PRIOR TO RUMBLE INSTALLATION.

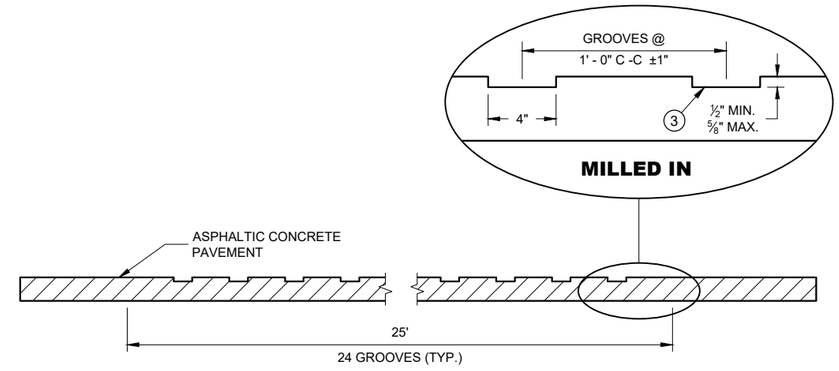
PAVEMENT MARKING AND SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDE ELSEWHERE IN THE CONTRACT.

(1) ELIMINATE THE MIDDLE SET OF RUMBLE STRIPS.

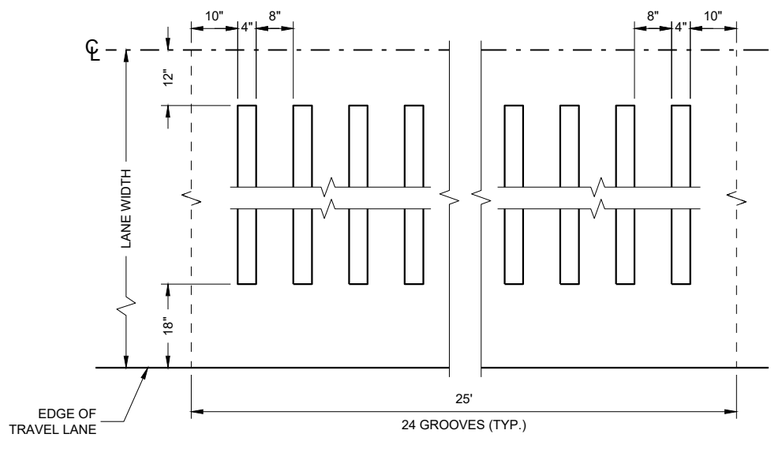
(2) LOCATE RUMBLE STRIP 200 FEET IN ADVANCE OF W3-1 SIGN AS SHOWN. IF W3-1 IS NOT IN PLACE, USE DISTANCE "C".

(3) TYPICAL VERTICAL VARIATION BETWEEN PEAKS AND VALLEYS WITHIN THE CUT APPROXIMATELY $\frac{1}{16}$".

(4) 12 INCH CLEAR BETWEEN THE SOLID YELLOW LINE AND THE EDGE OF THE RUMBLE.



ELEVATION VIEW



PLAN VIEW

ASPHALTIC PAVEMENT MILLED IN

TRANSVERSE RUMBLE STRIPS, ASPHALTIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY DESIGN STANDARDS
UNIT SUPERVISOR

FHWA

6

SDD 13A08 - 02

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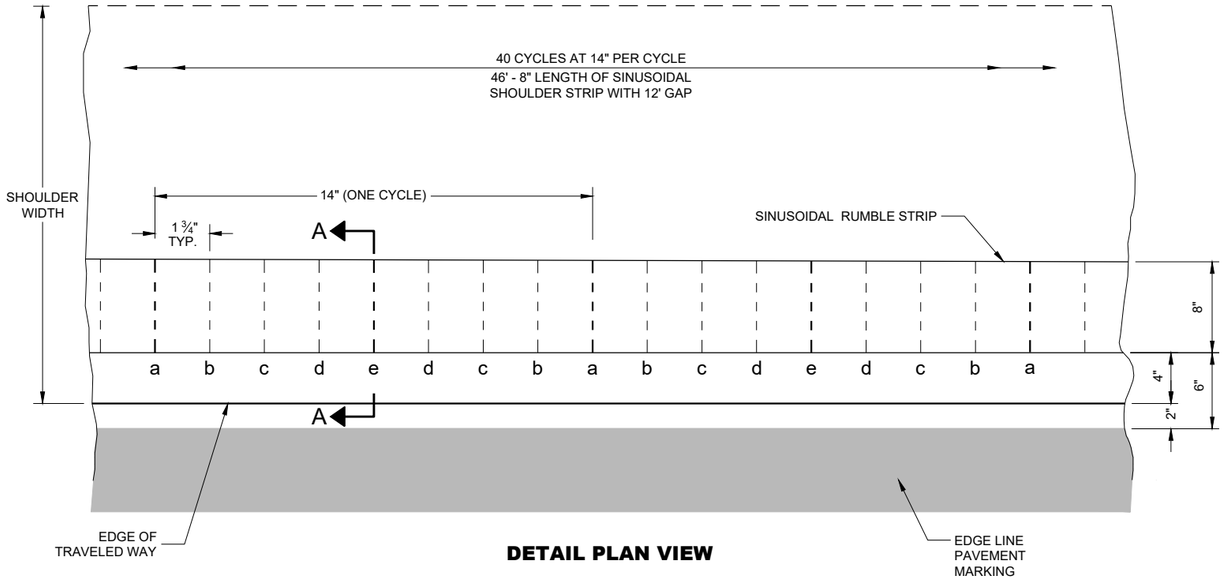
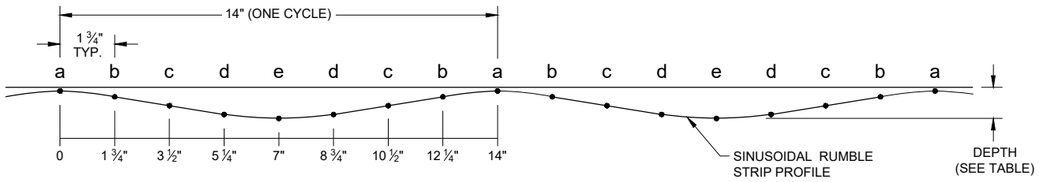
SDD 13A08 - 02



DETAIL PLAN VIEW



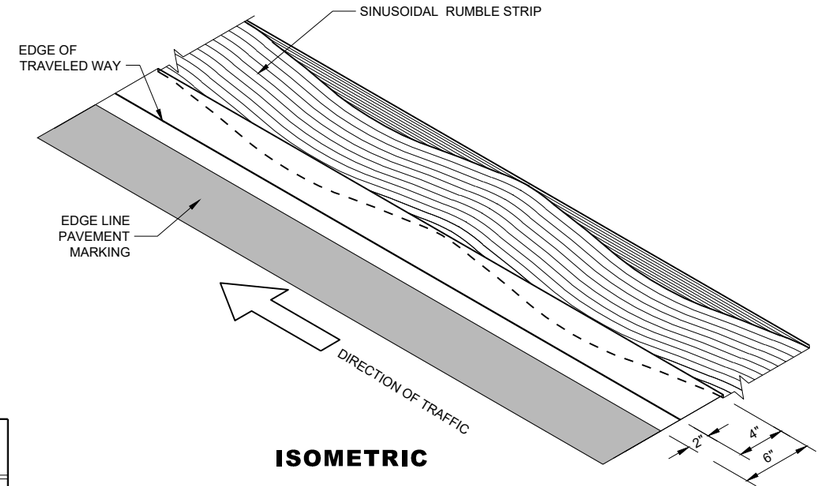
PROFILE VIEW

LOCATION	DEPTH (INCHES)
a	1/16"
b	5/32"
c	9/32"
d	7/16"
e	1/2"

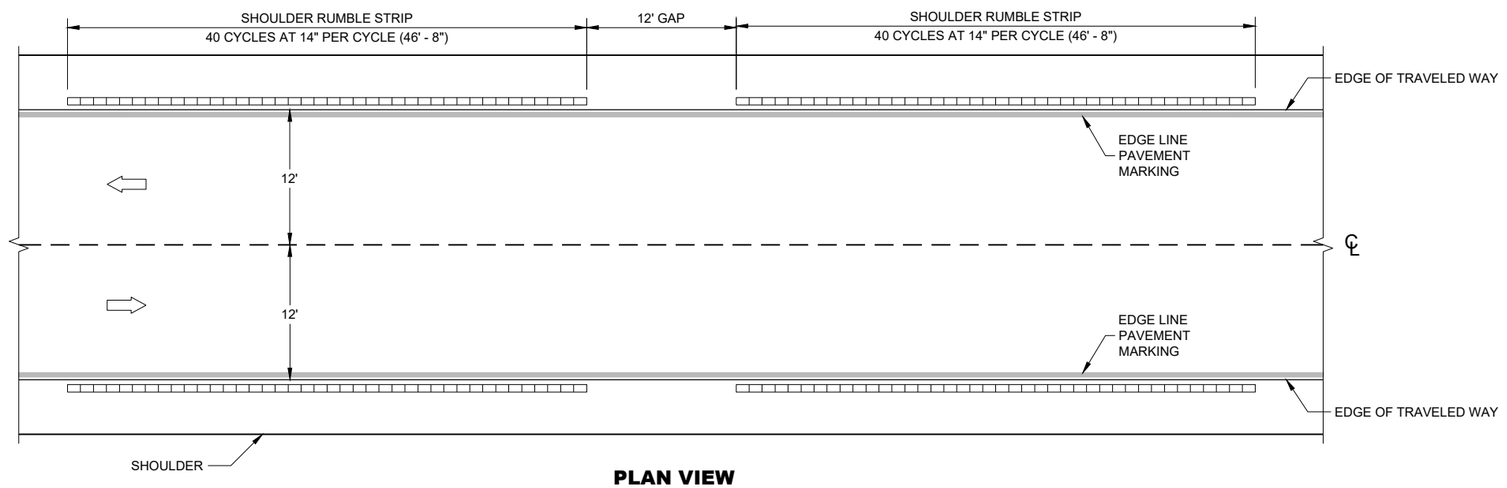
GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

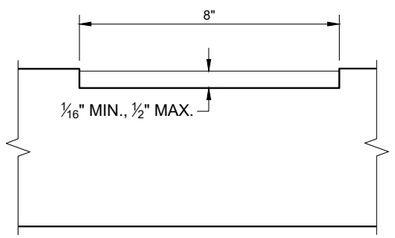
SHOULDER RUMBLE STRIPS MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



ISOMETRIC

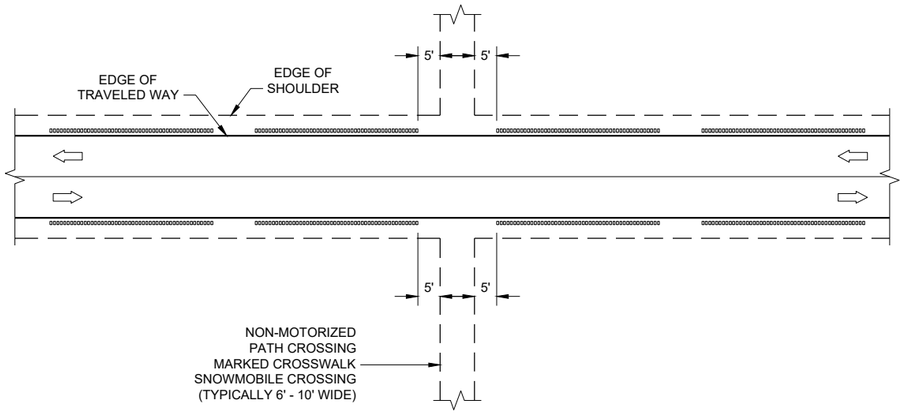


PLAN VIEW

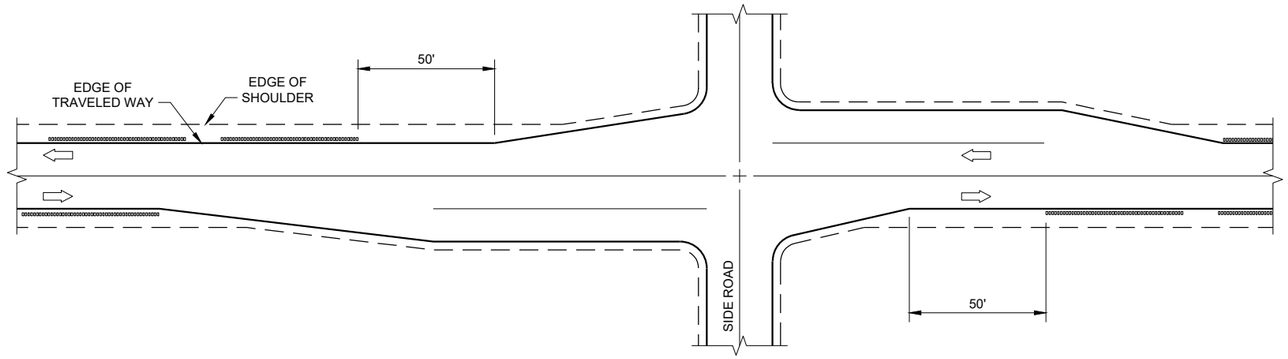


SECTION A - A

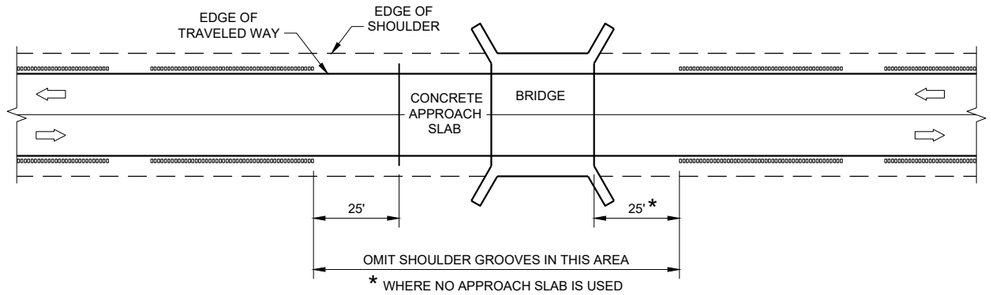
SHOULDER RUMBLE STRIPS - ASPHALT, SINUSOIDAL



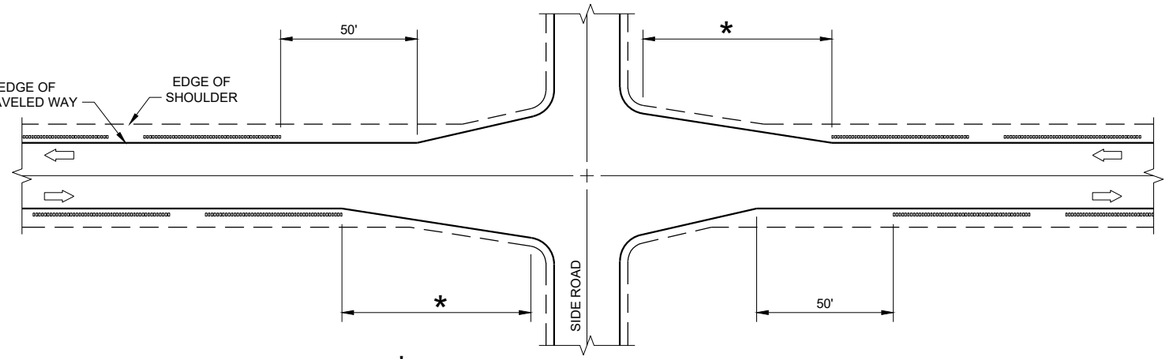
GROOVES AT MISCELLANEOUS CROSSINGS



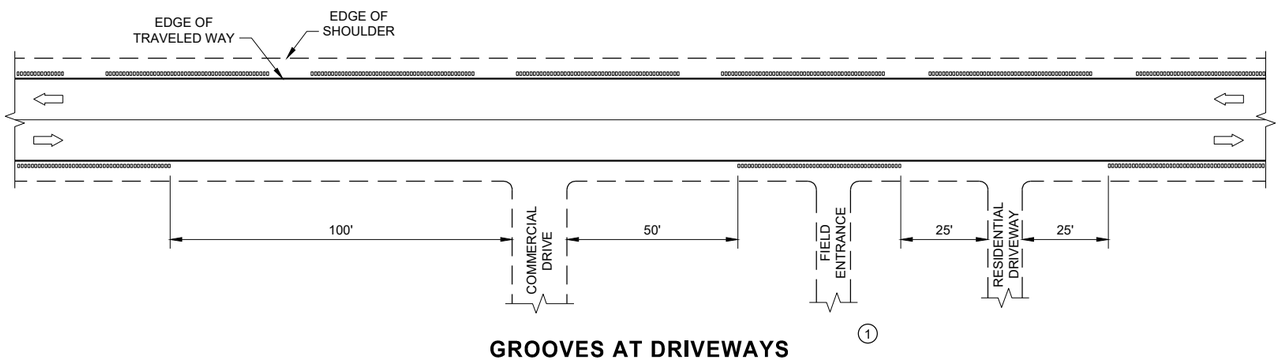
GROOVES AT RIGHT TURN LANE



GROOVES AT BRIDGES



GROOVES AT INTERSECTIONS WITH APPROACH TAPER



GROOVES AT DRIVEWAYS ①

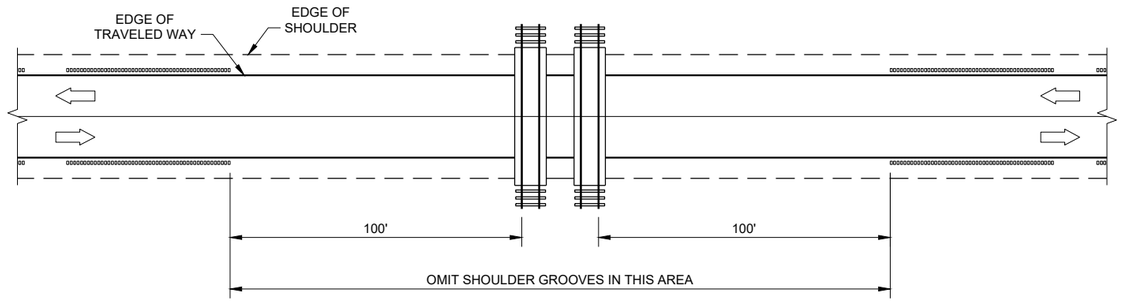
GENERAL NOTES

① SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

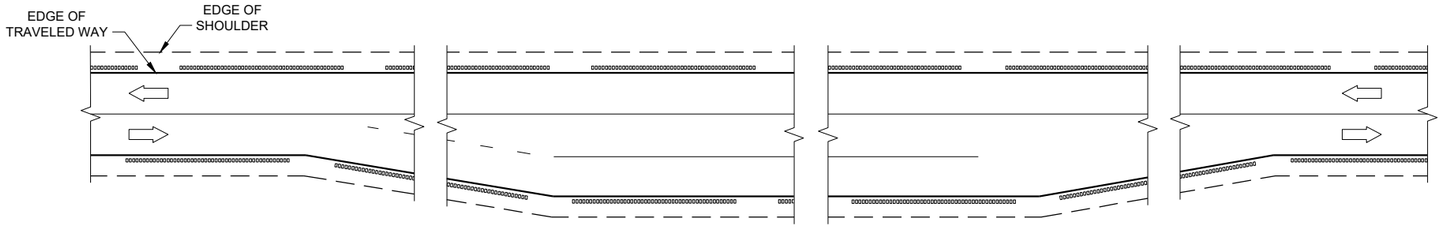
SHOULDER AND EDGE LINE RUMBLE STRIPS CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

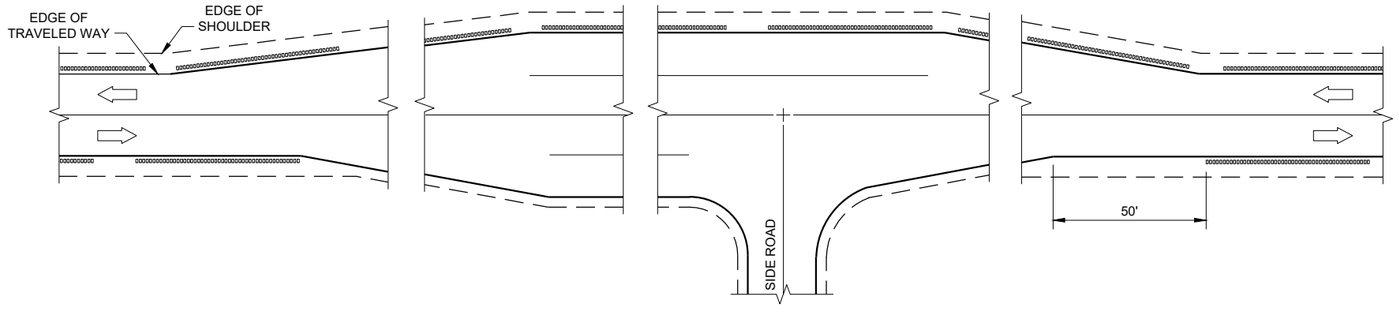
6
SDD 13A10 - 03g



GROOVES AT RAILROADS



GROOVES AT PASSING AND CLIMBING LANES



GROOVES AT BYPASS LANES

6

SDD 13A10 - 03h

6

SDD13A10 - 03h

SHOULDER AND EDGE LINE RUMBLE STRIPS - RAILROAD, PASSING, CLIMBING AND BYPASS LANES

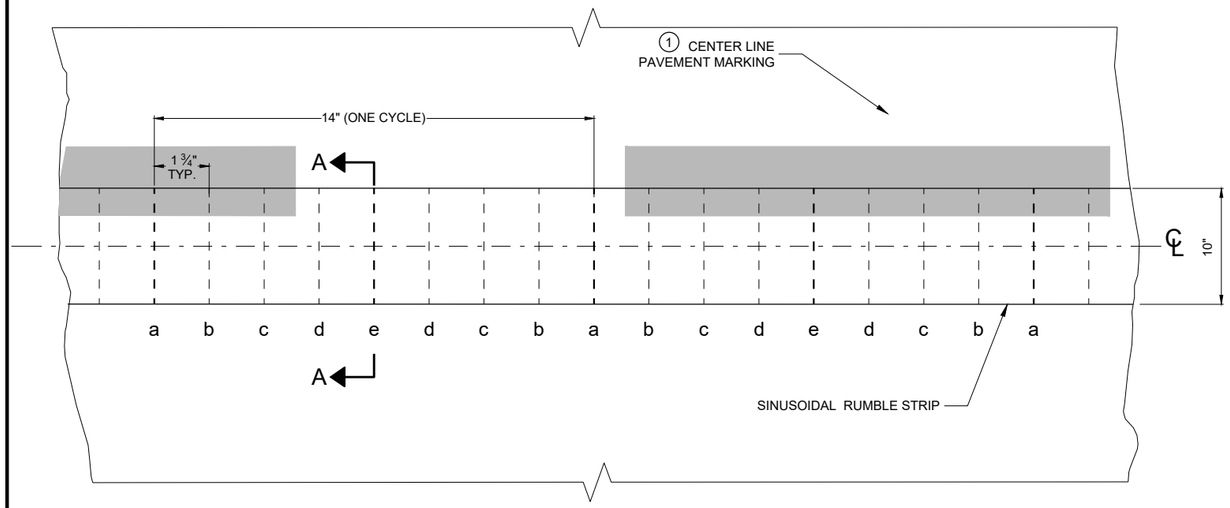
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

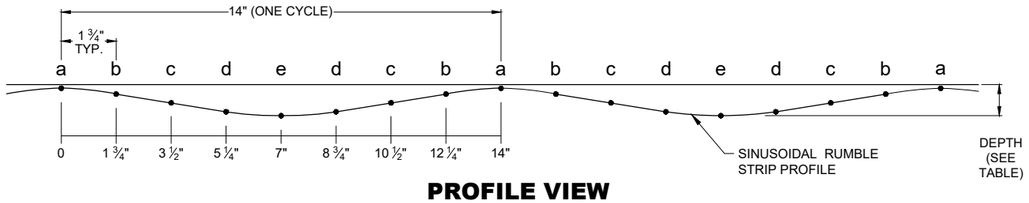
May 2023
DATE

/S/ John Jenkins
ROADWAY STANDARDS DEVE ENGINEER

FHWA



PLAN DETAIL VIEW



PROFILE VIEW
SINUSOIDAL CENTERLINE RUMBLE STRIPS

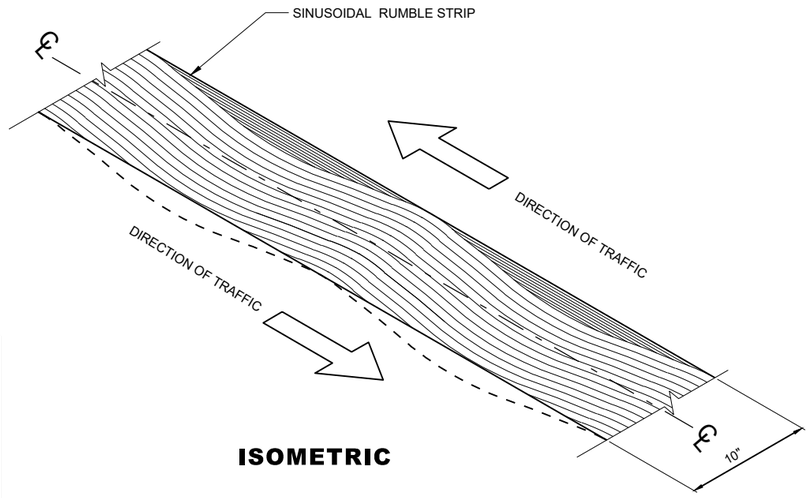
LOCATION	DEPTH (INCHES)
a	1/16"
b	5/32"
c	9/32"
d	7/16"
e	1/2"

GENERAL NOTES

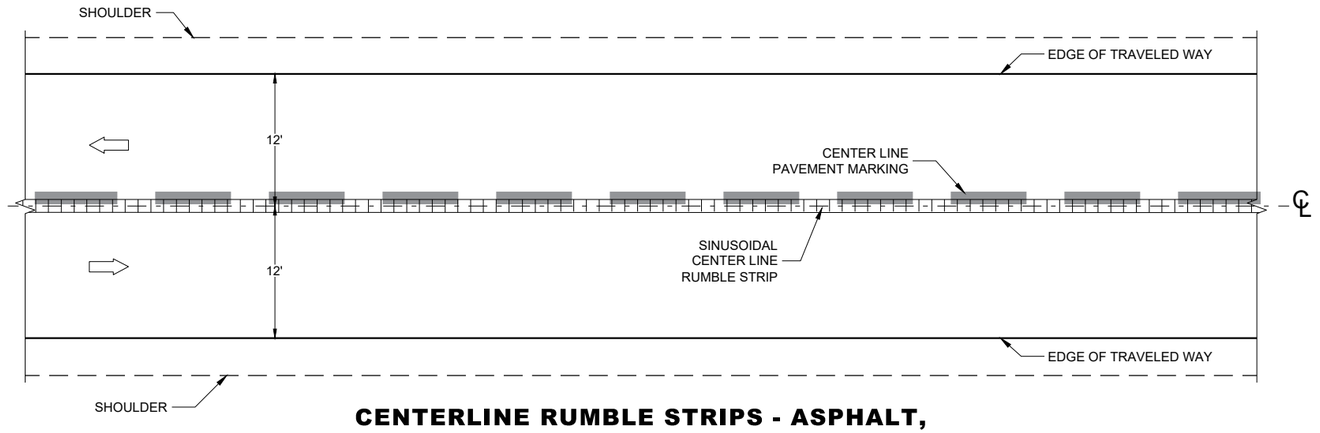
SDD 13A11, SHEET "d" SHOWS THE LOCATIONS OF RUMBLE STRIPS AT INTERSECTIONS, INTERSECTIONS WITH LEFT TURN LANES, BRIDGES, COMMERCIAL AND RESIDENTIAL DRIVEWAYS AND RAILROAD CROSSINGS.

SHOULDER RUMBLE STRIPS MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.

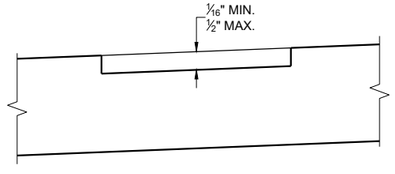
(1) CENTERLINE PAVEMENT MARKINGS SHALL BE PLACED PARTIALLY IN RUMBLE STRIP GROOVE AND PARTIALLY OUT OF THE RUMBLE STRIP GROOVE.



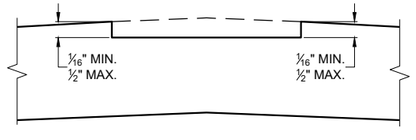
ISOMETRIC



CENTERLINE RUMBLE STRIPS - ASPHALT, SINUSOIDAL



SECTION A - A
SUPERELEVATED ROADWAY



SECTION A - A
CROWNED ROADWAY

CENTERLINE RUMBLE STRIPS - ASPHALT, SINUSOIDAL

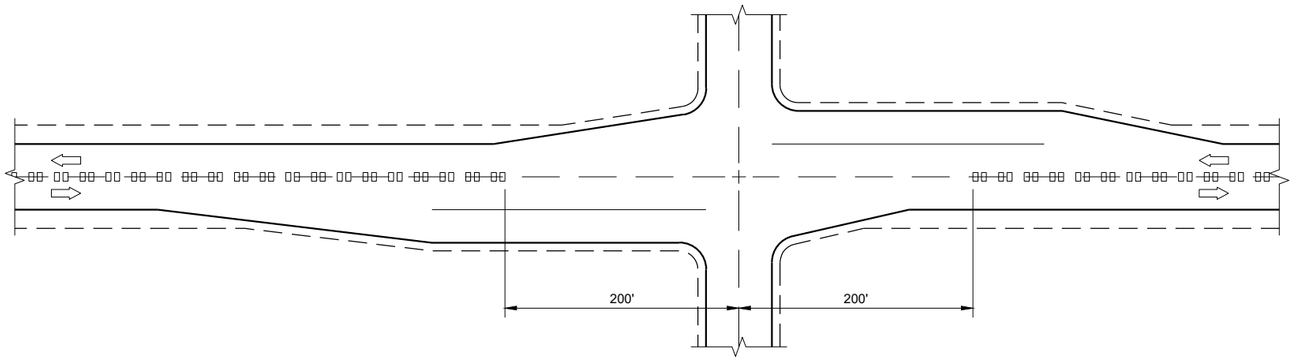
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

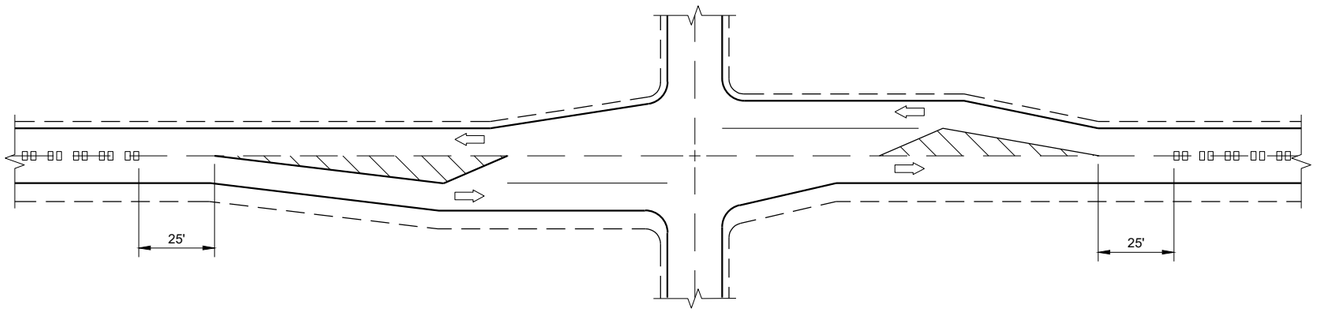
SDD 13A11 - 04c

6

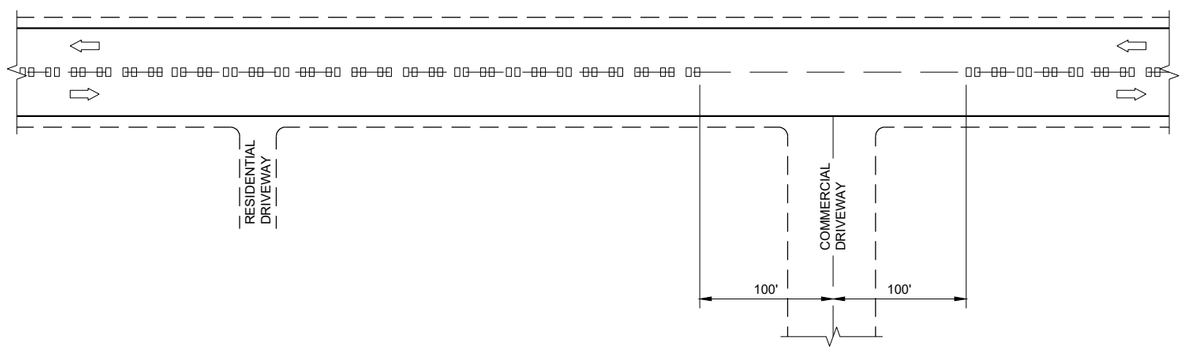
SDD 13A11 - 04c



CENTERLINE GROOVES AT INTERSECTIONS



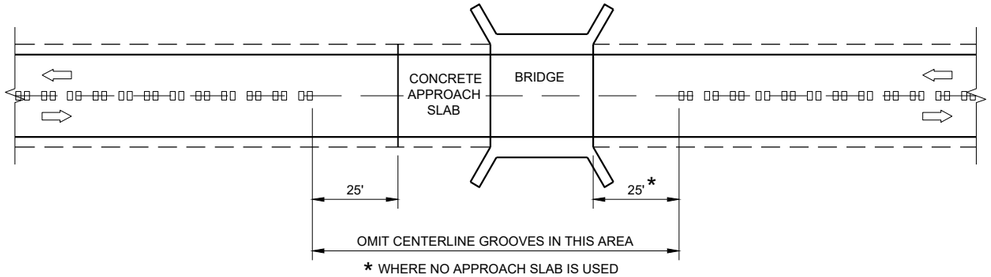
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



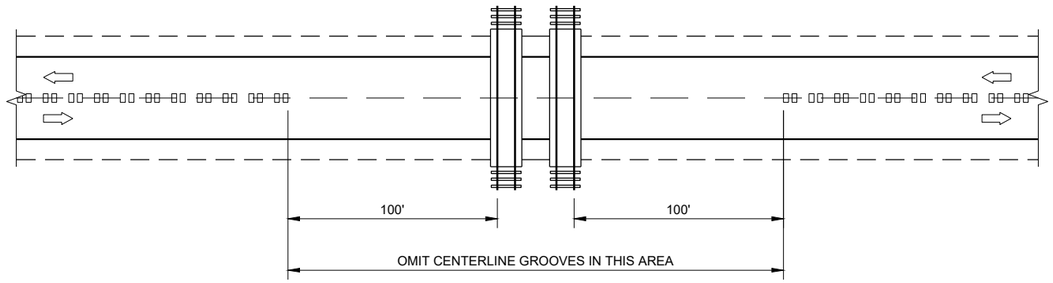
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

CENTER LINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAIL ROADS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2023
DATE

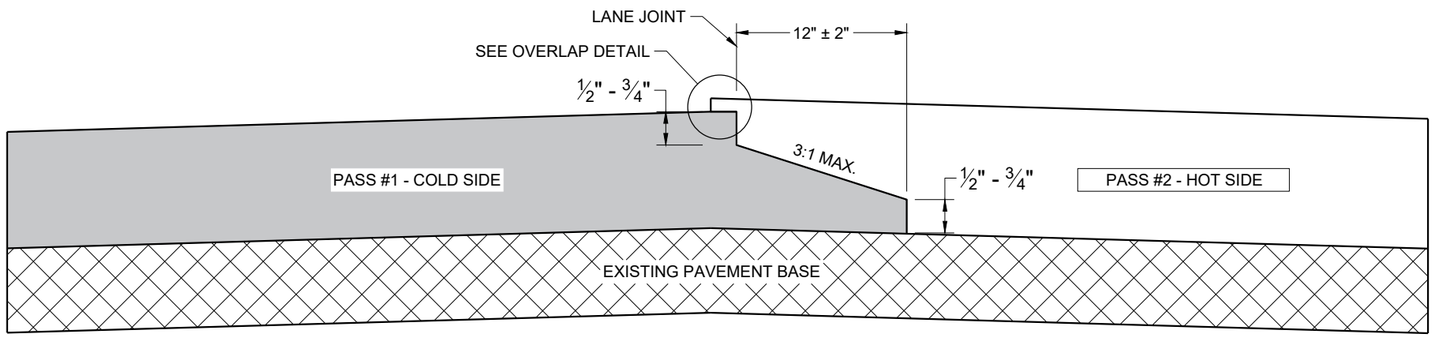
/S/ John Jenkins
ROADWAY STANDARDS DEVE ENGINEER

FHWA

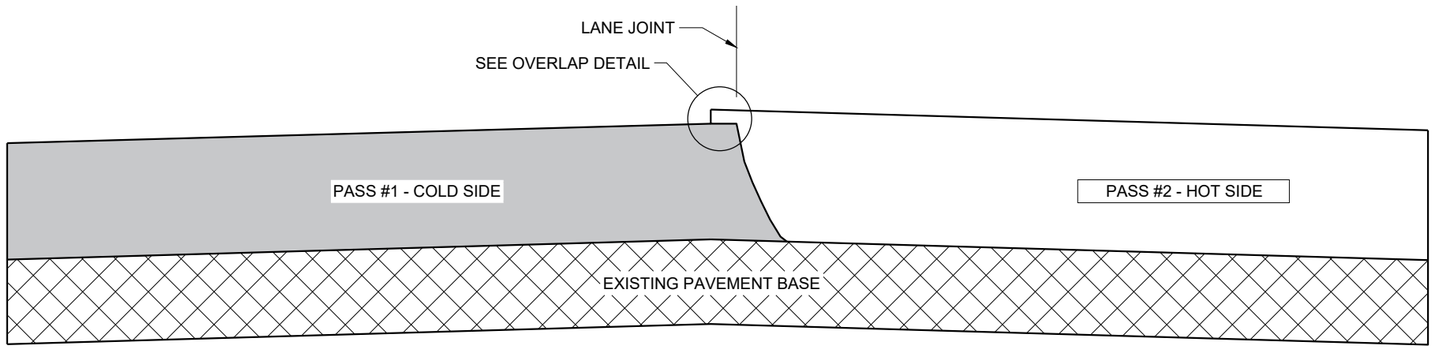
6

SDD 13A11 - 04d

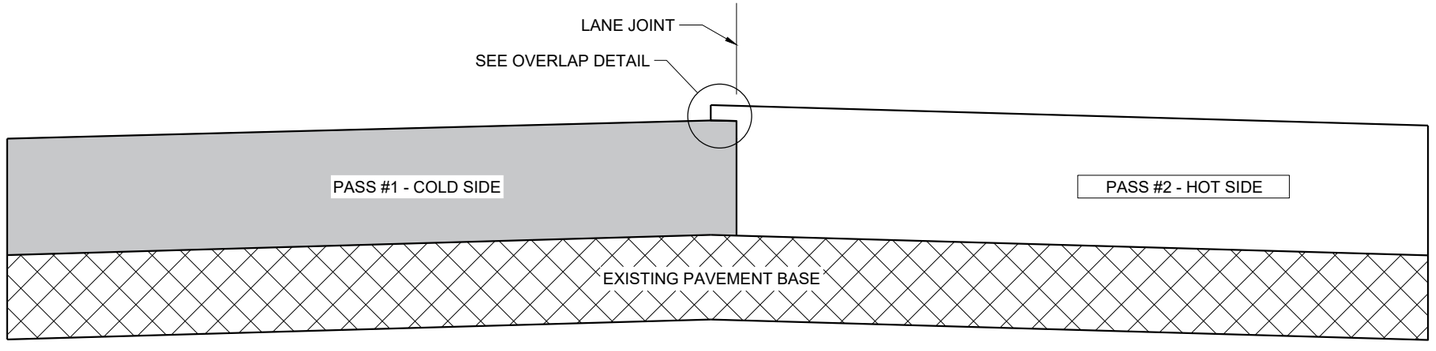
SDD 13A11 - 04d



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

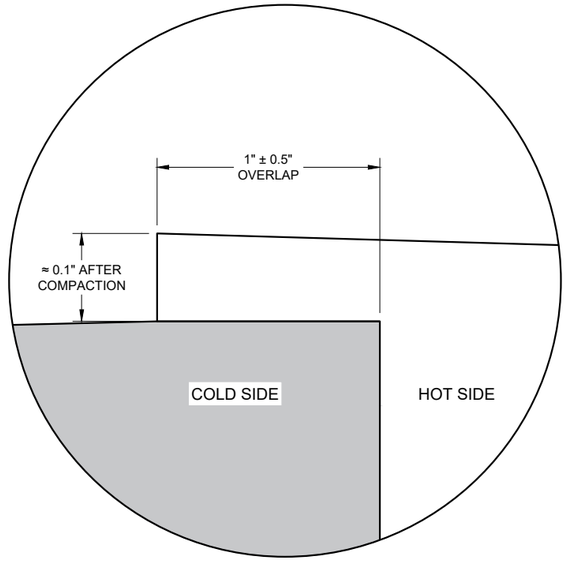
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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

6

SDD 13C19 - 03

SDD 13C19 - 03

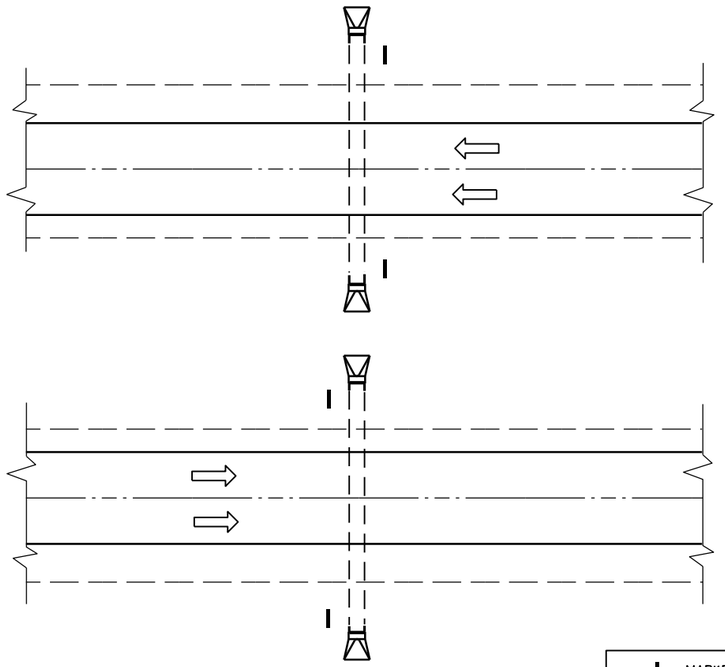
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

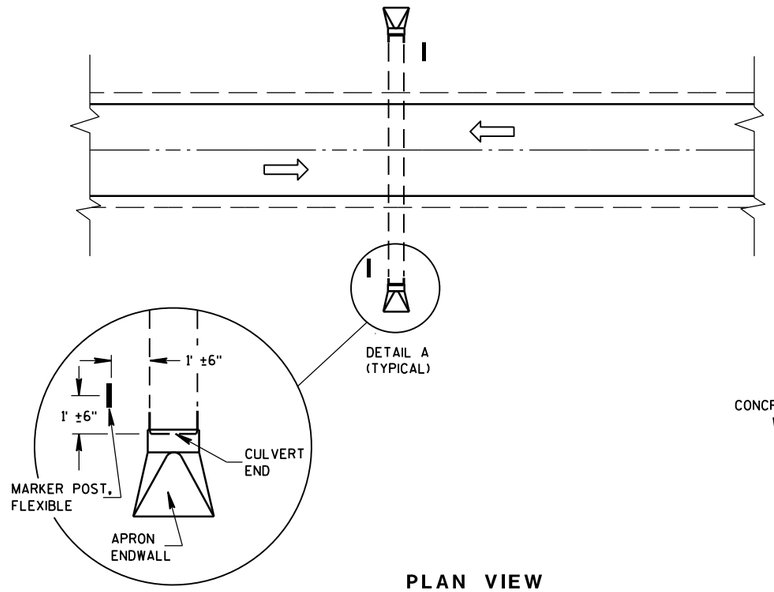
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

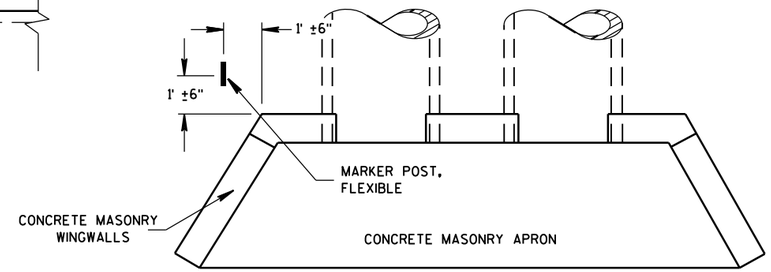
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

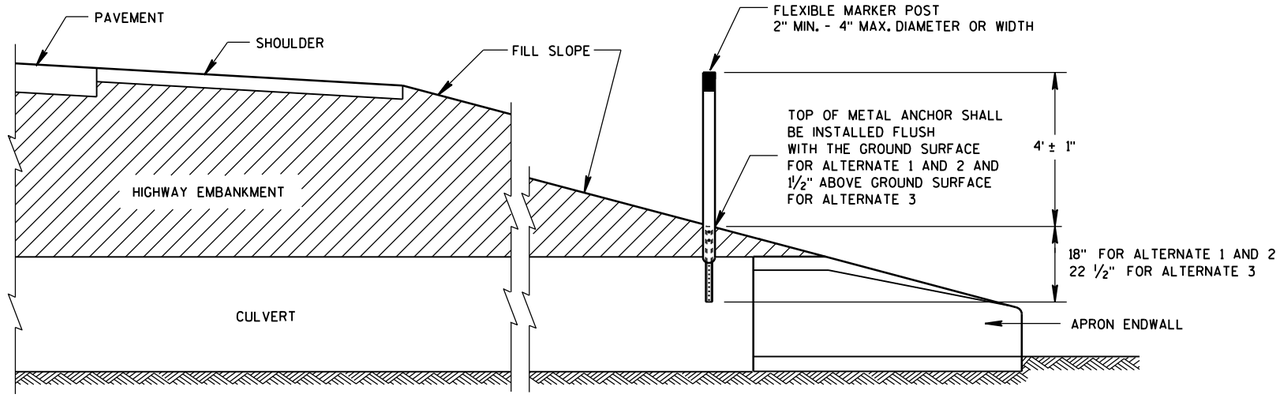
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 A 3-2a

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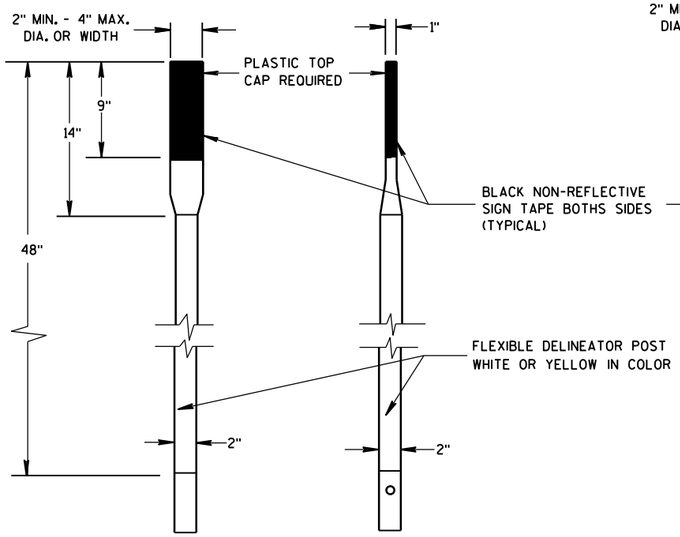
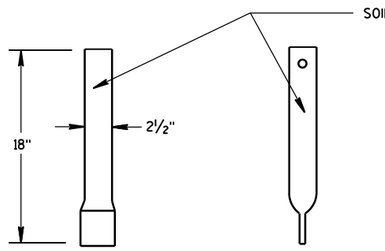
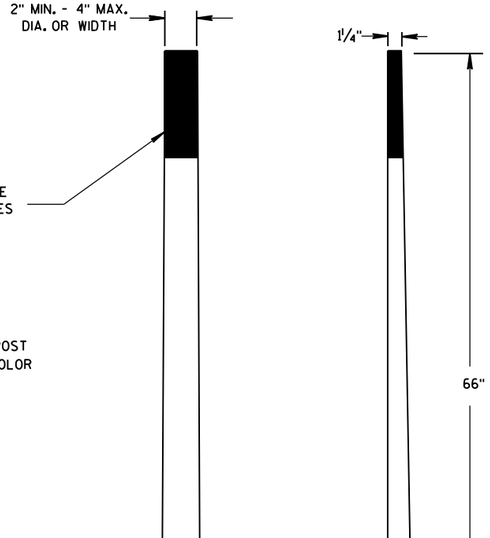
S.D.D. 15 A 3-2a





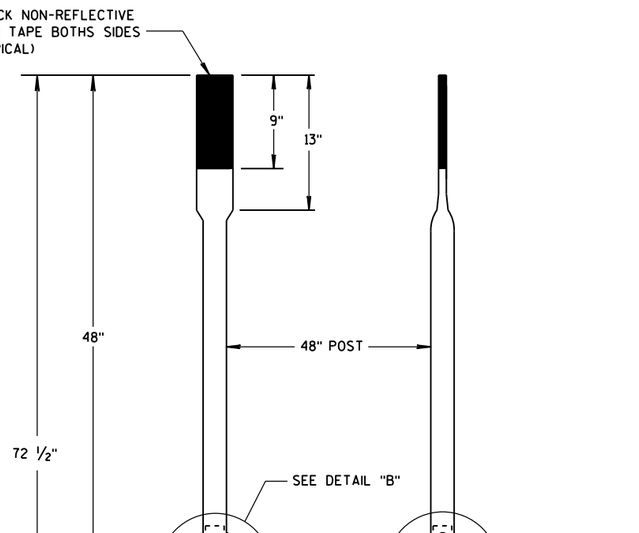
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

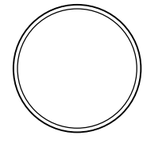
ALTERNATE 2



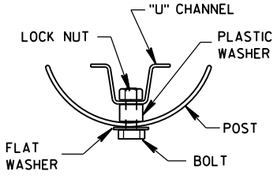
FRONT VIEW SIDE VIEW

ALTERNATE 3

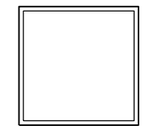
FLEXIBLE MARKER POSTS



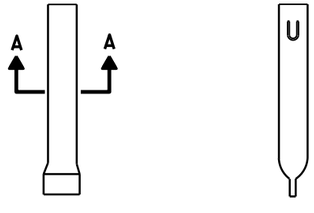
SECTION A-A



SECTION B-B

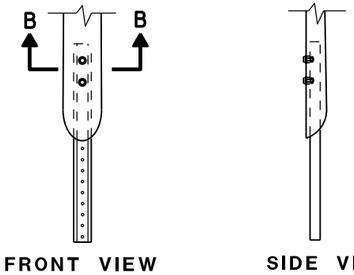


SECTION C-C



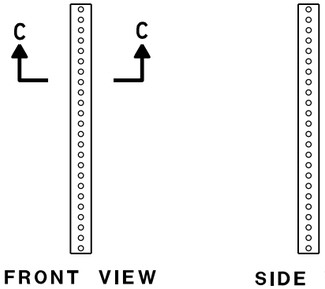
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

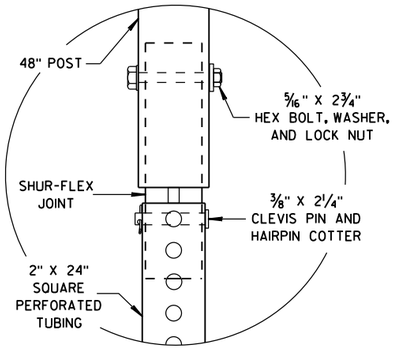
ALTERNATE 2



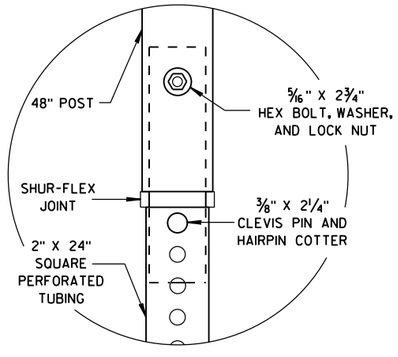
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 A 3-2b

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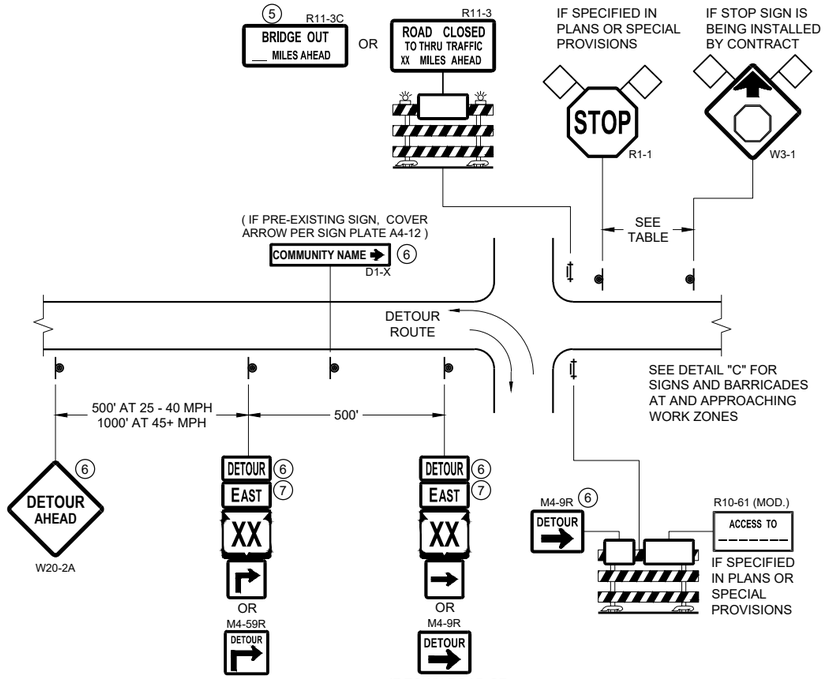
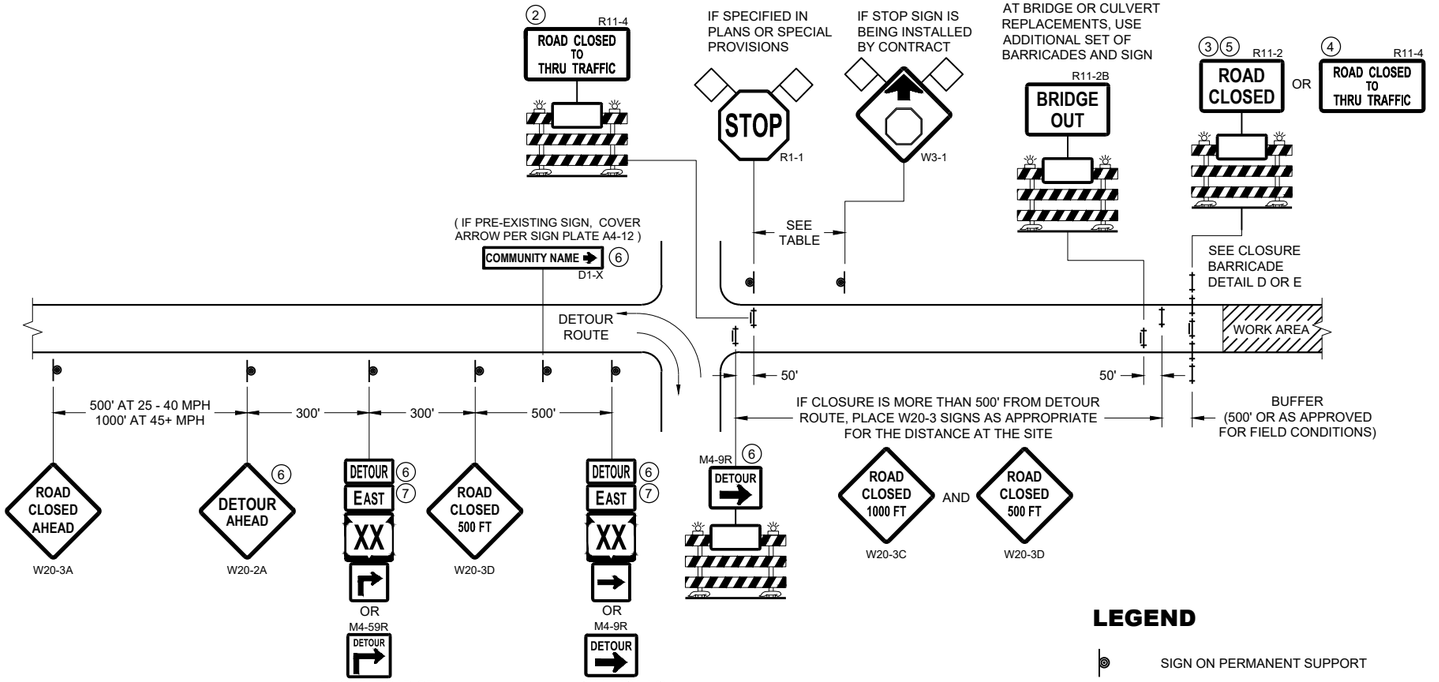
S.D.D. 15 A 3-2b



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

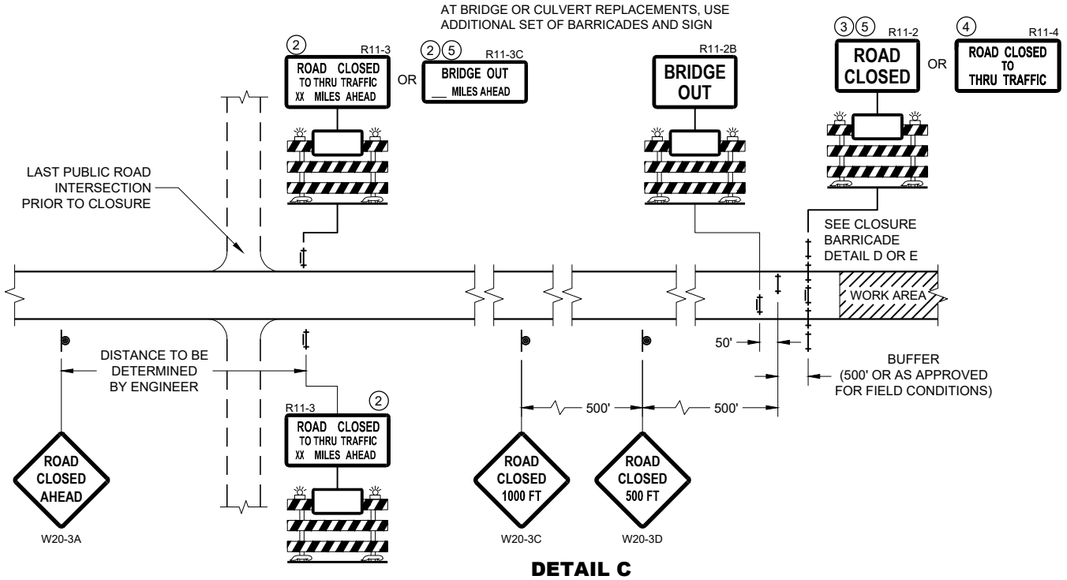


DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

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

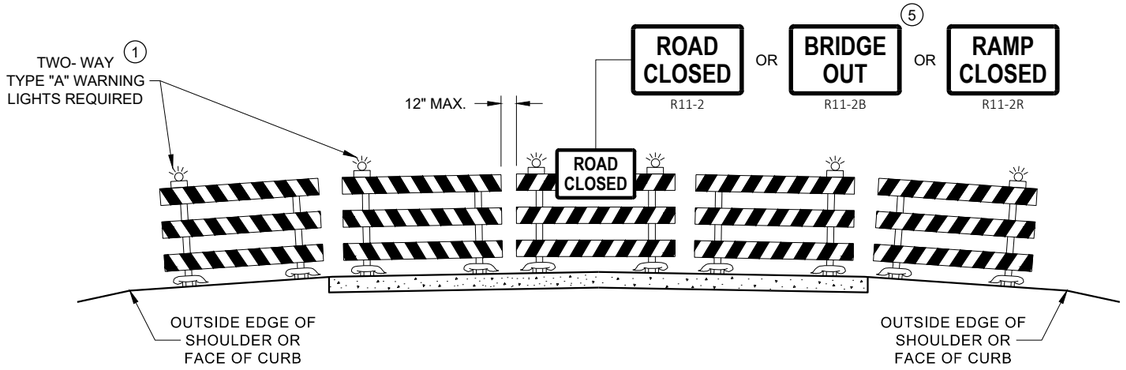
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

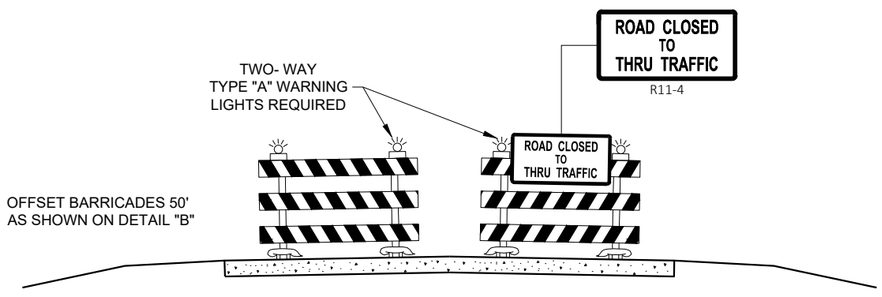
6

SDD 15C02 - 09a

SDD 15C02 - 09a



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
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

6
SDD 15C02 - 09b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR / EAST — M4 - 8, M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

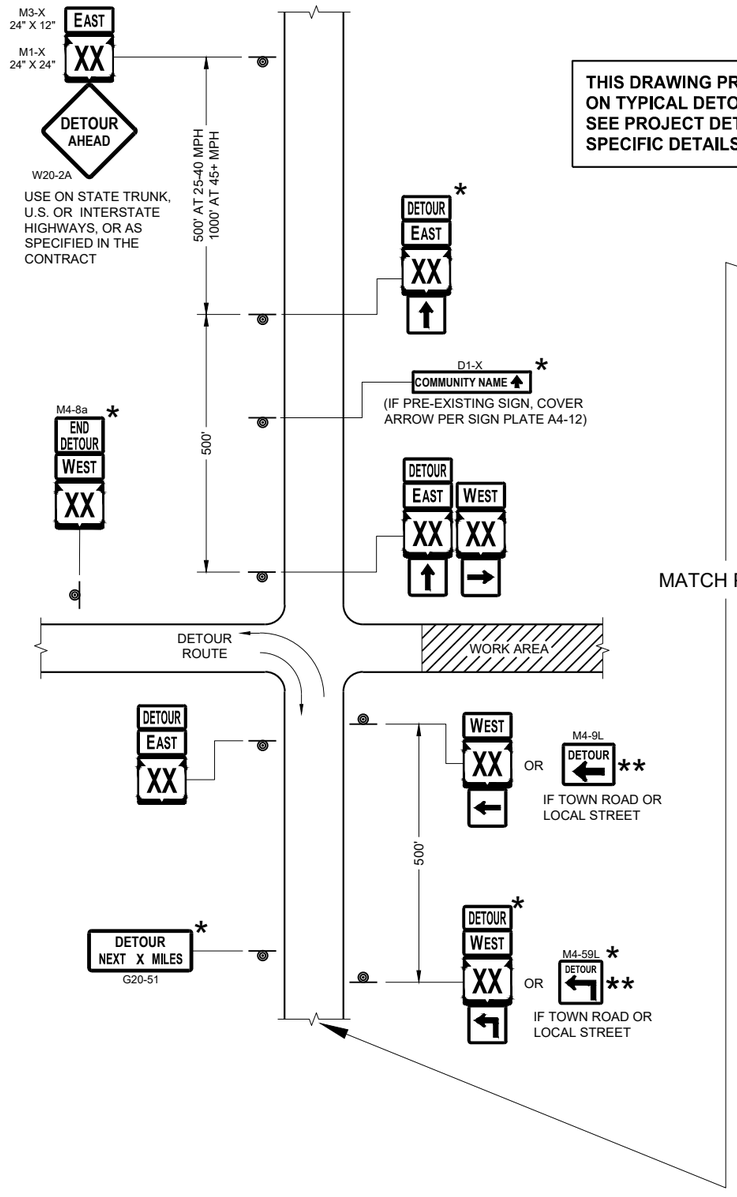
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

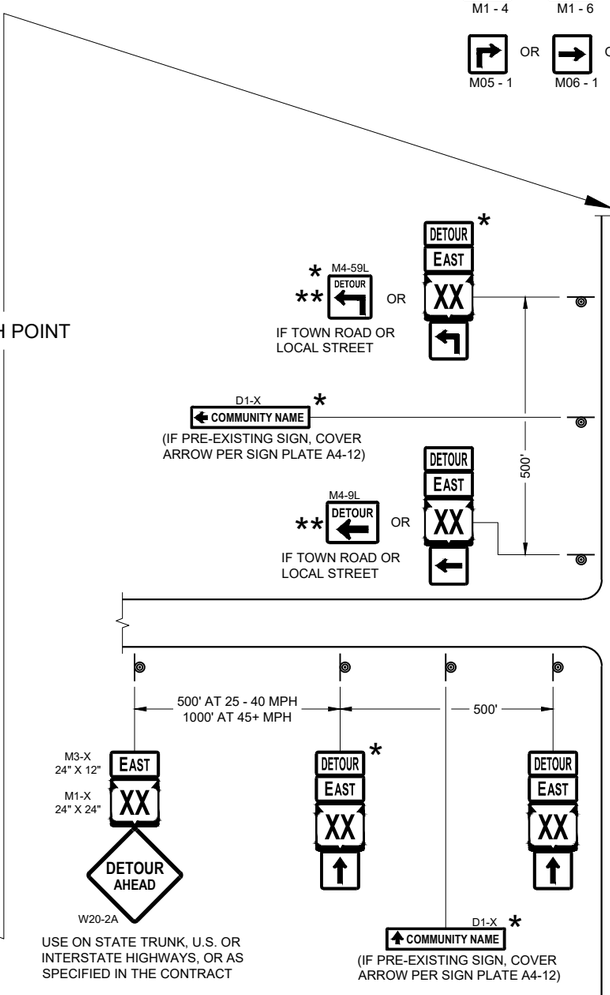
SIGN SIZES SHALL BE AS FOLLOWS:

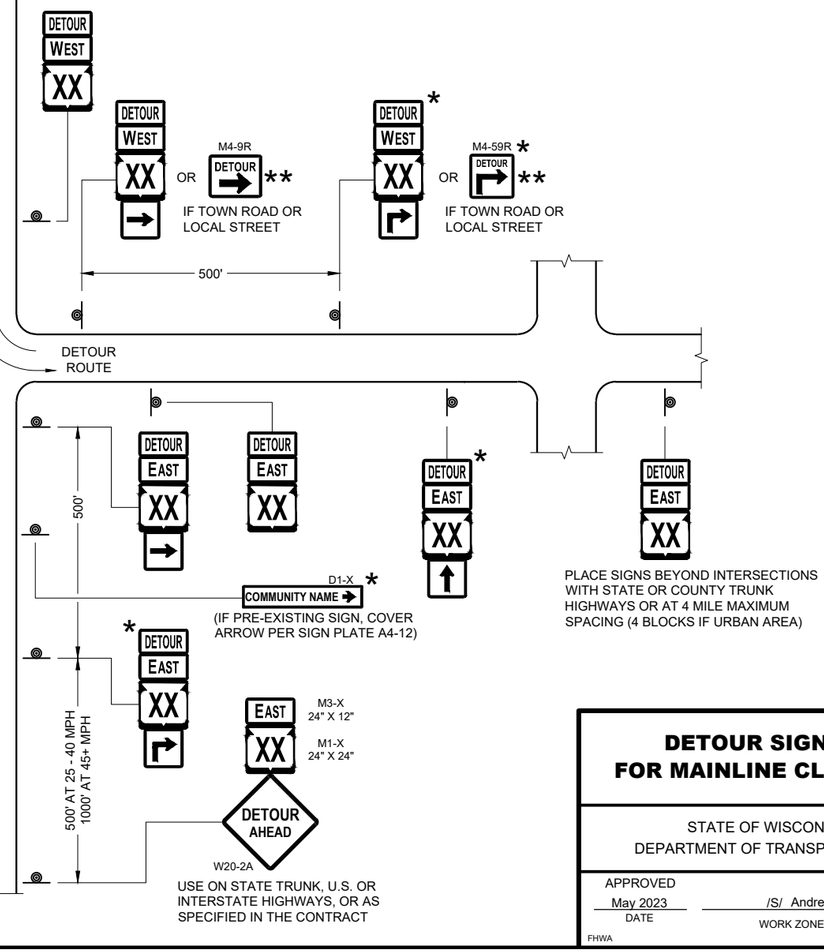
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.







SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

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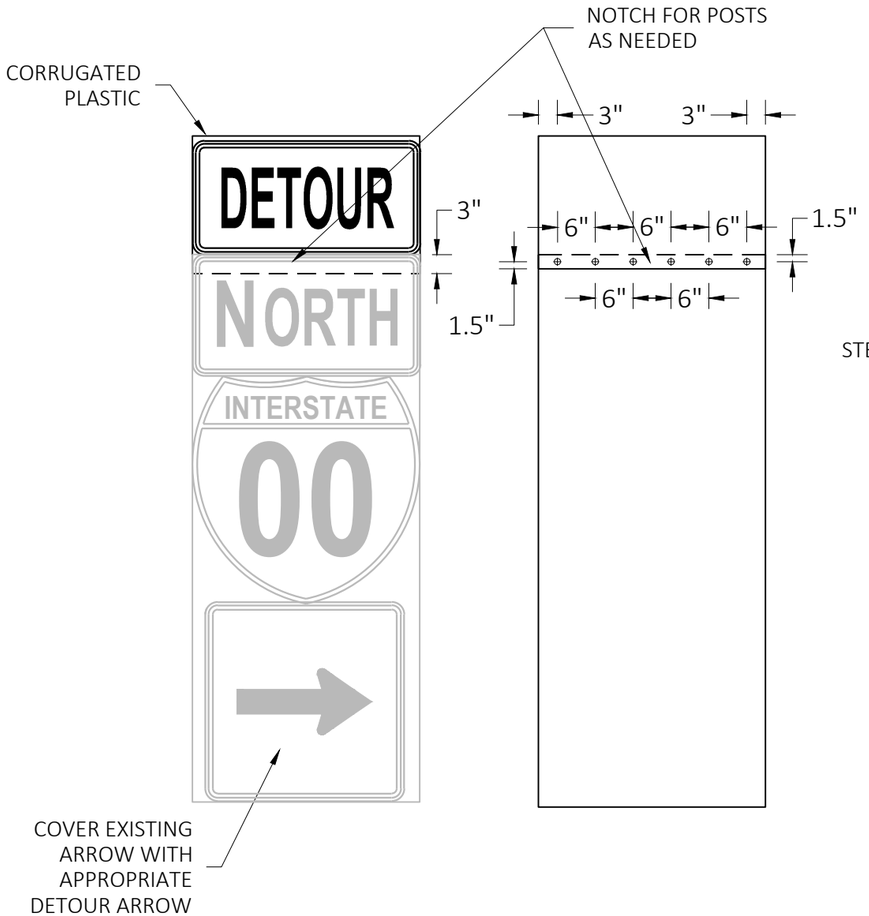
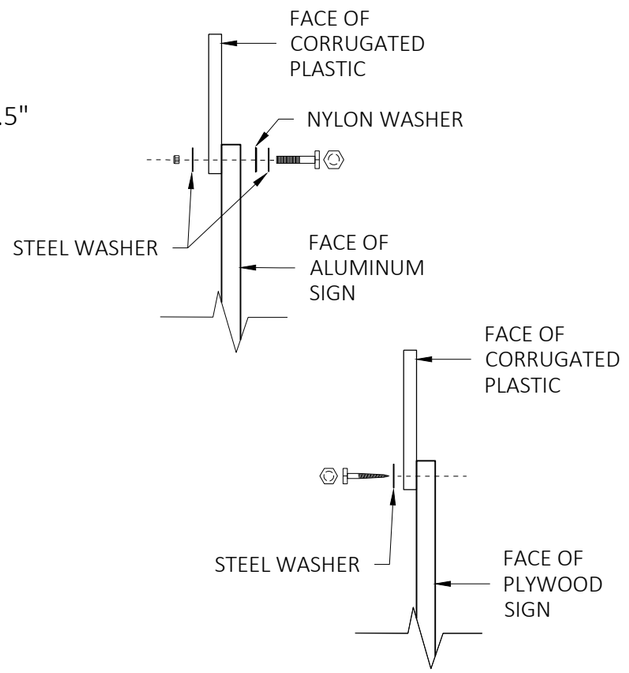
SDD 15C02 - 09c

FRONT SIDE

BACK SIDE

SIDE VIEW





GENERAL NOTES

CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED.

PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE.

FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN.

FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS.

METAL WASHERS, NUTS, BOLTS AND LAGS 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, SC3

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.

PLYWOOD SIGNS:
LAG SCREWS - 5/16" x 1"
ALUMINUM SIGNS:
MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS
WASHERS:
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

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

STATE OF WISCONSIN
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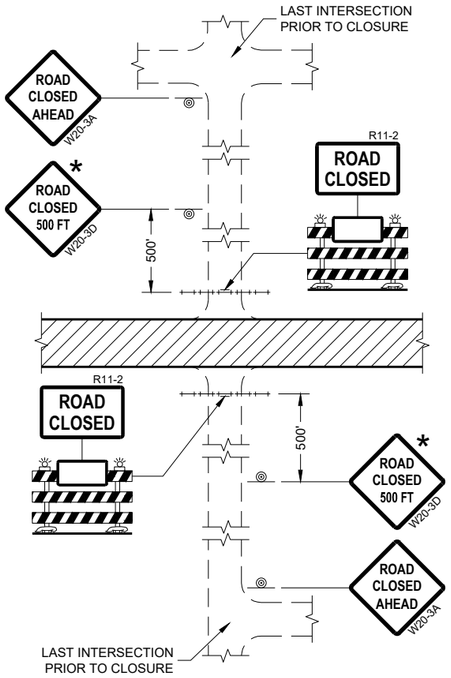
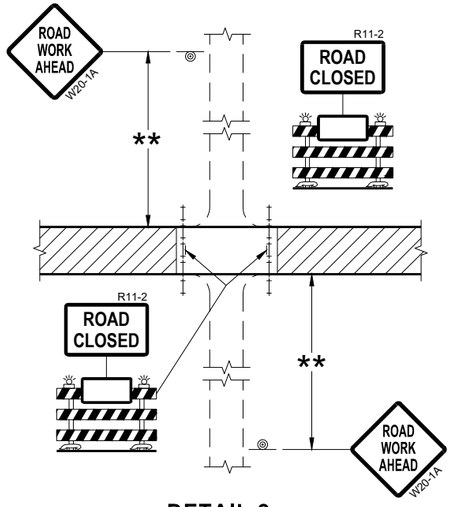
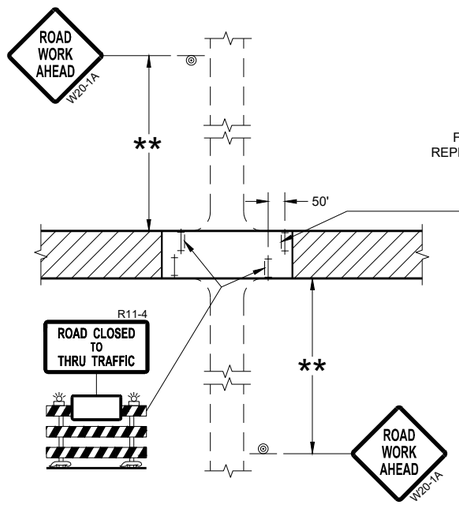


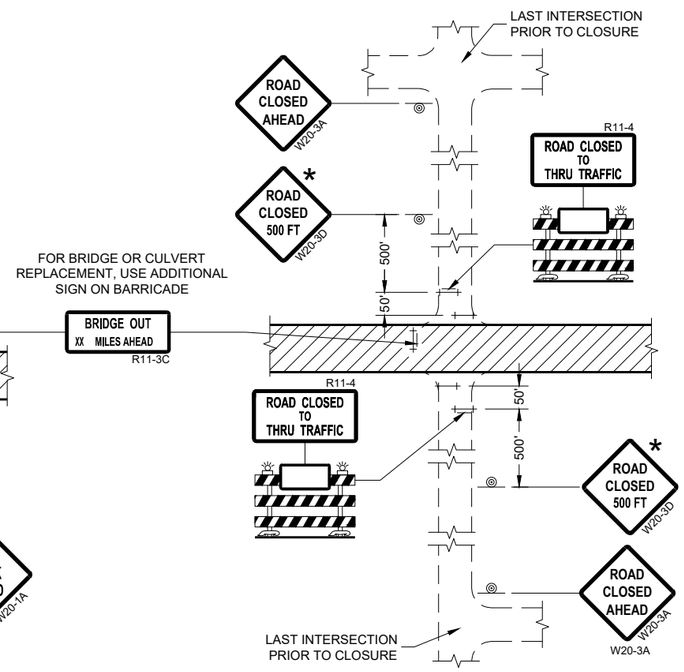
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT 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.

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

FHWA

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SDD 15C03 - 05

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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.

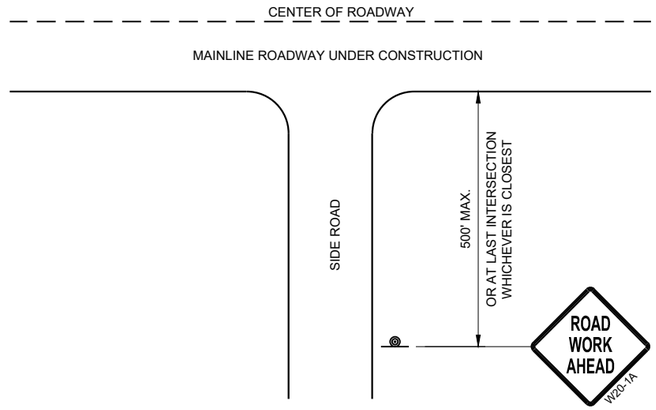
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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.



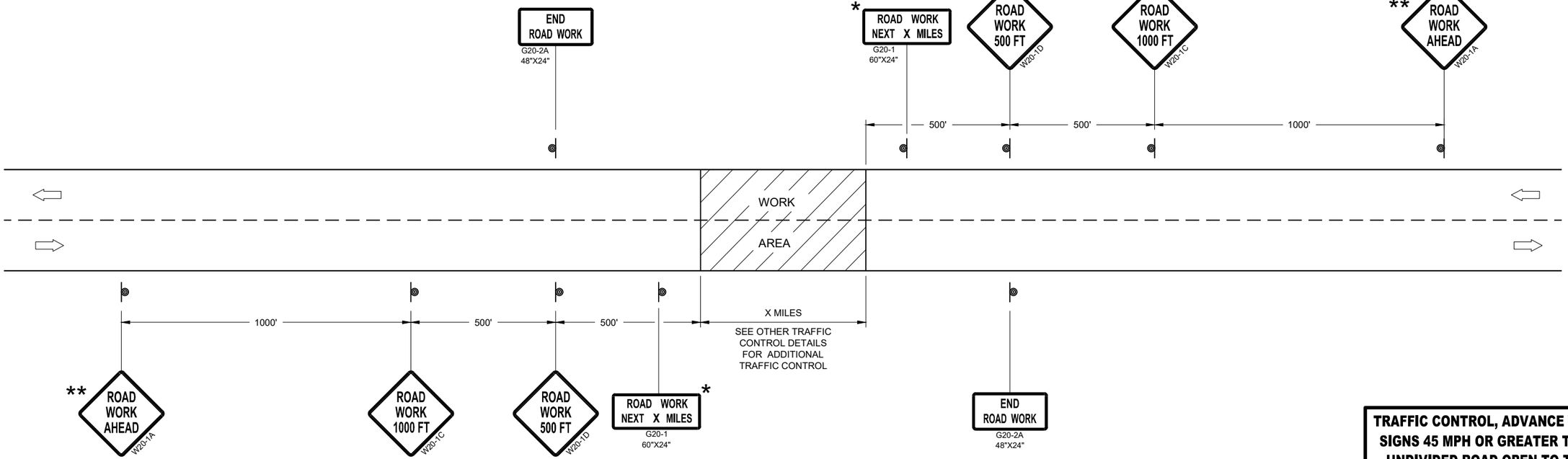
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

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

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SDD 15C04 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

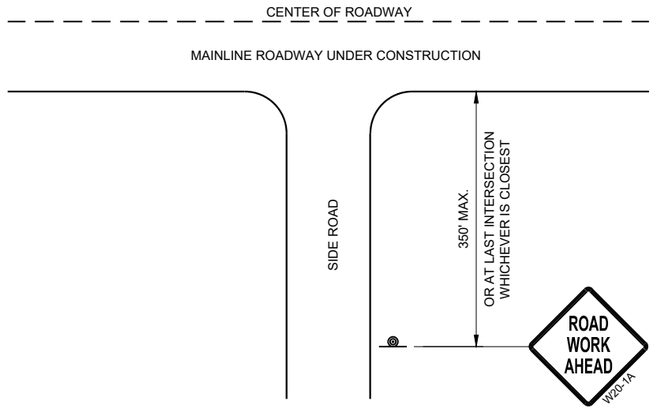
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.



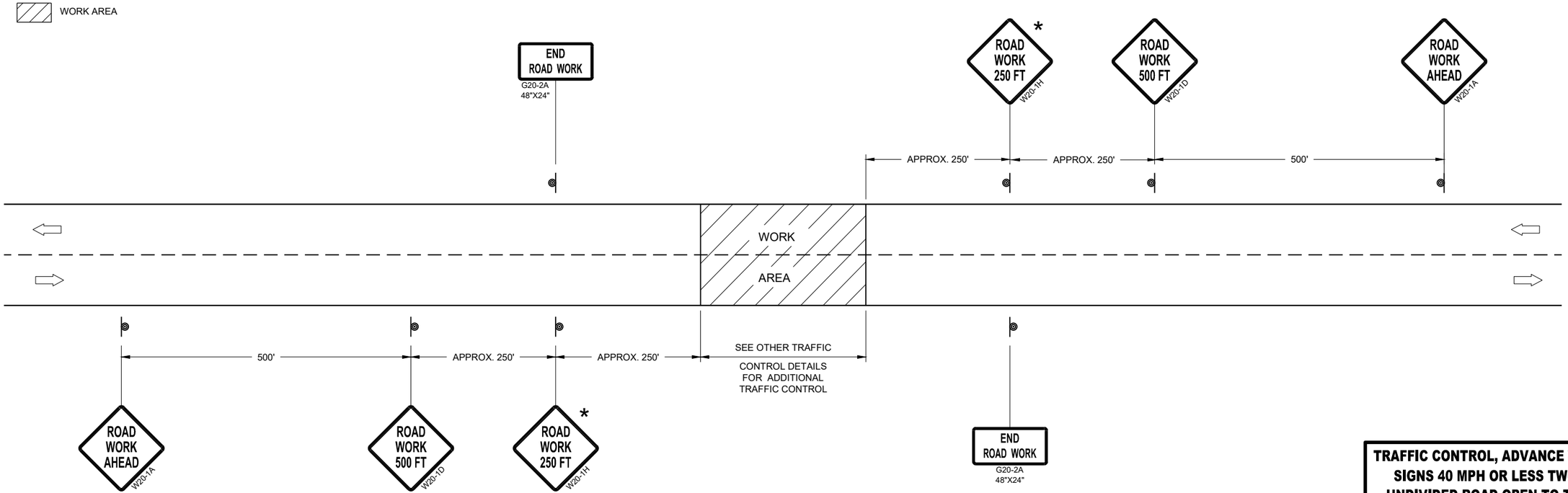
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

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
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WORK ZONE ENGINEE

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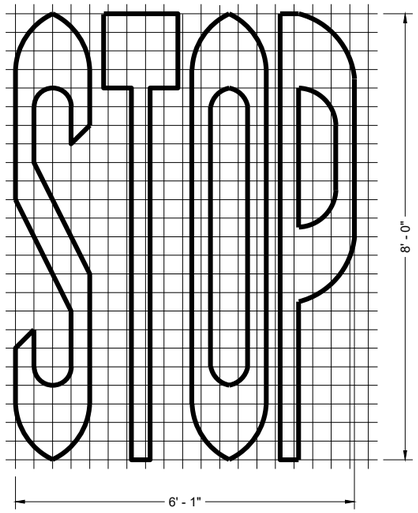
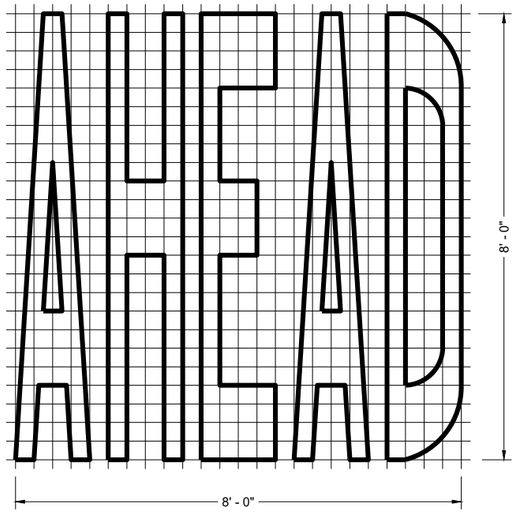
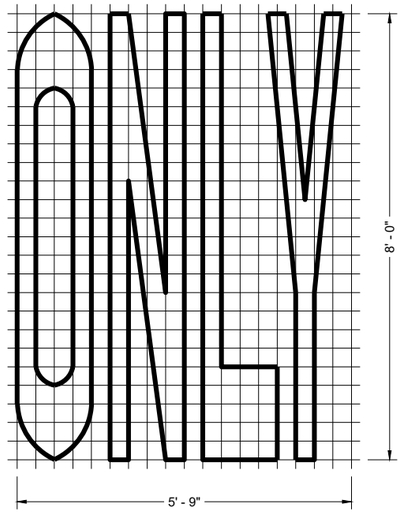
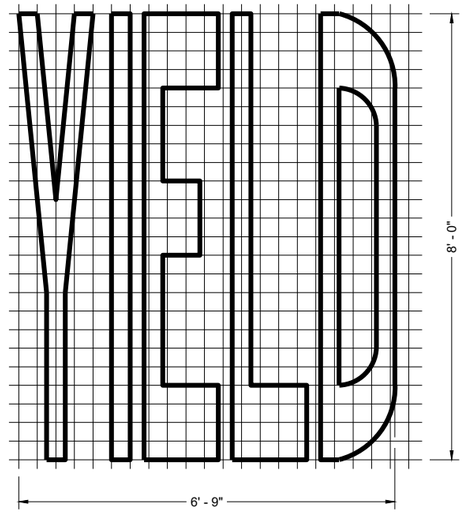
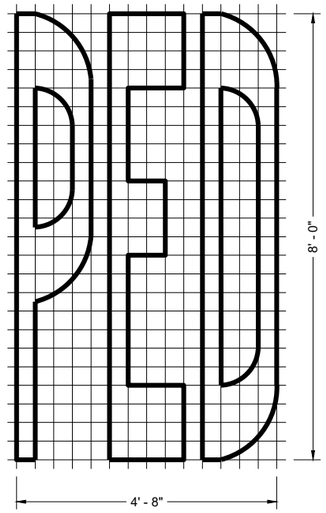
SDD 15C05 - 05

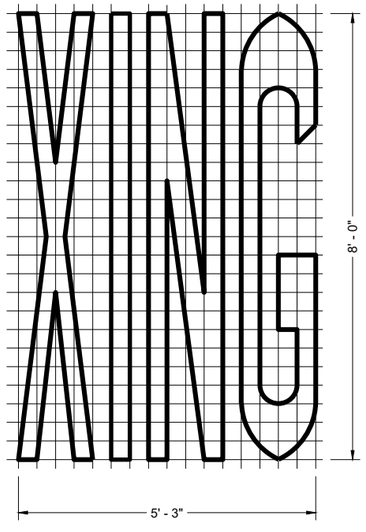


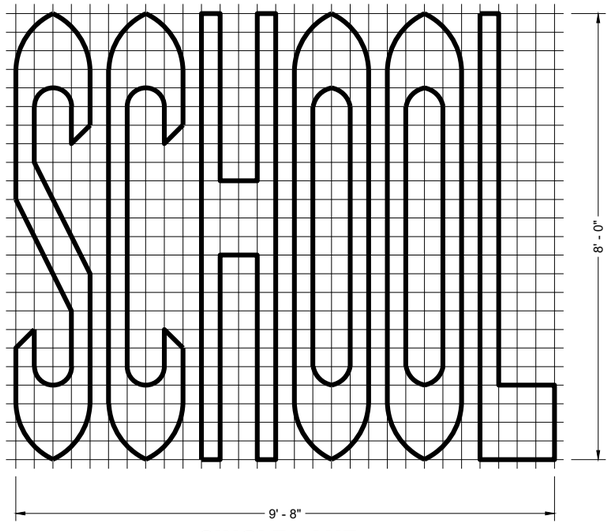




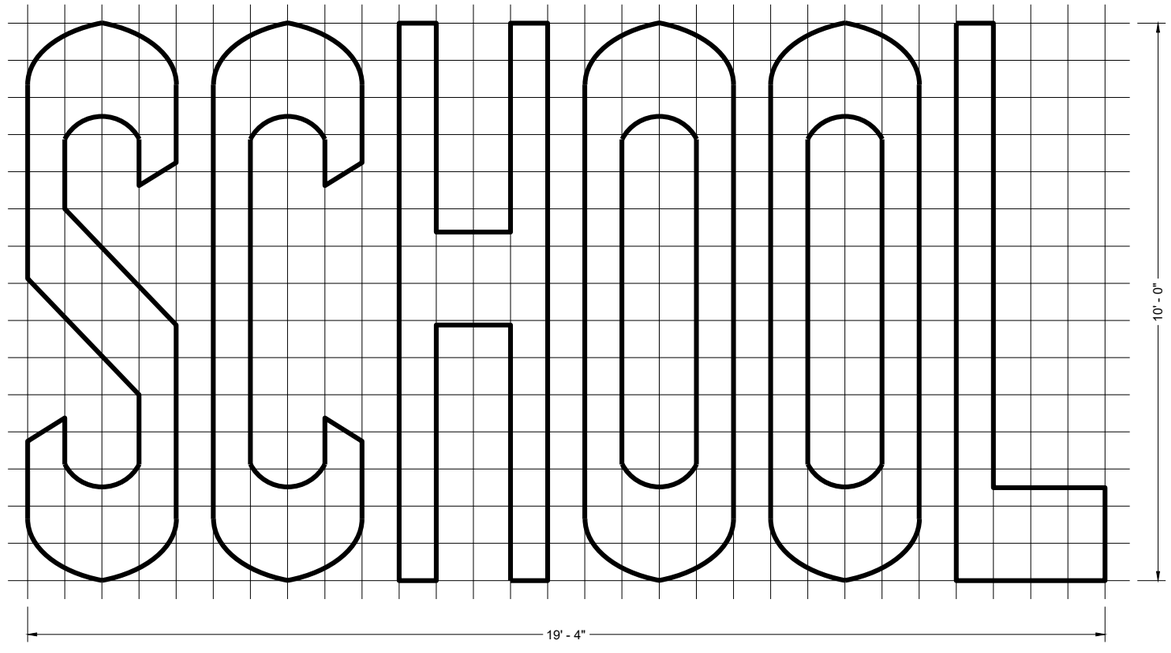








SINGLE LANE



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 2024 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MARKING ENGINEER

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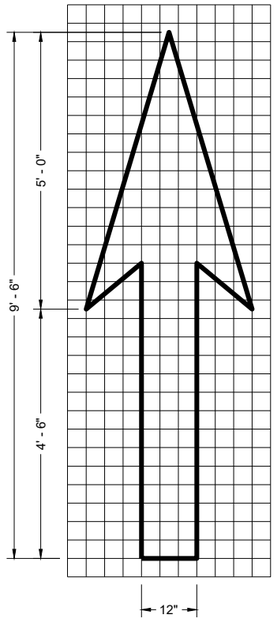
SDD 15C07-16b

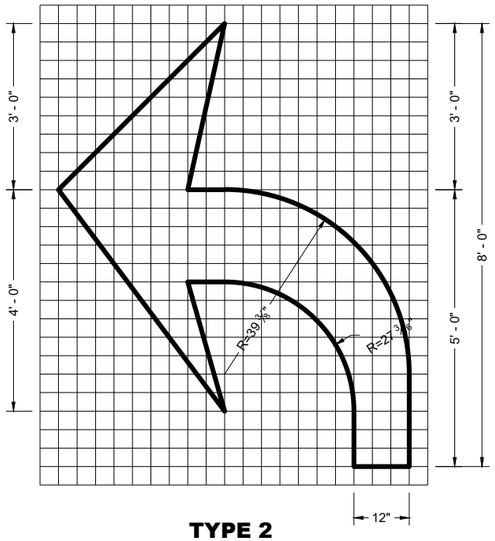
SDD 15C07-16b

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 1



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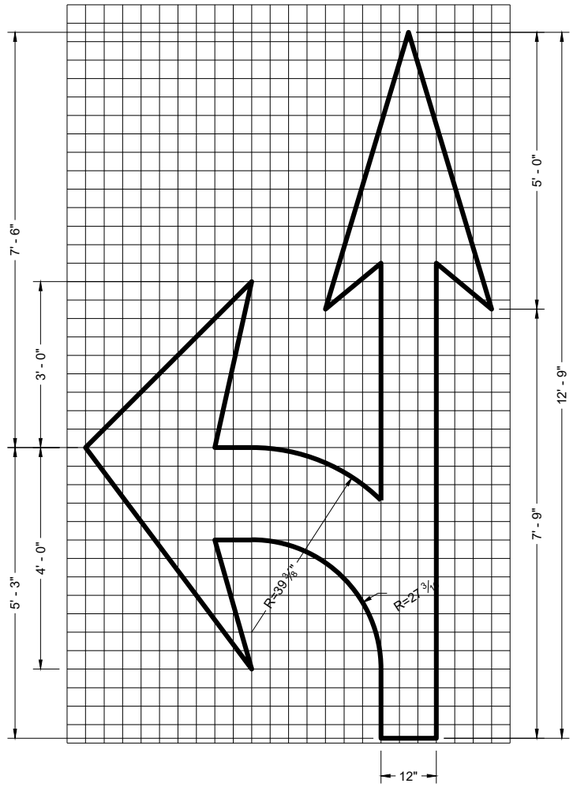
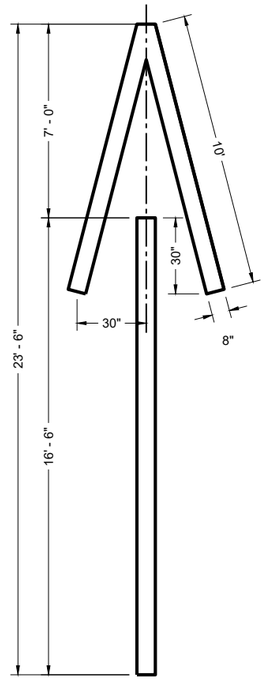
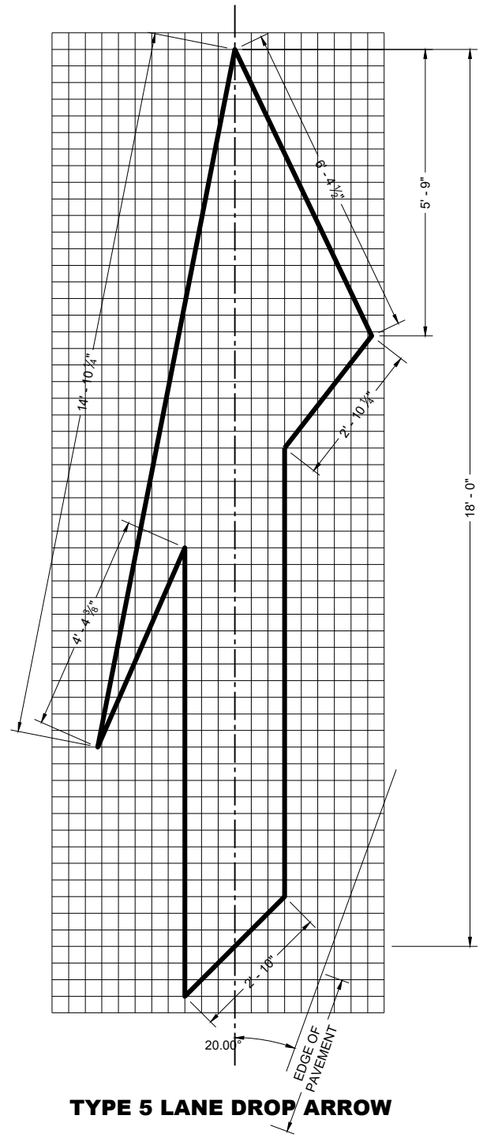


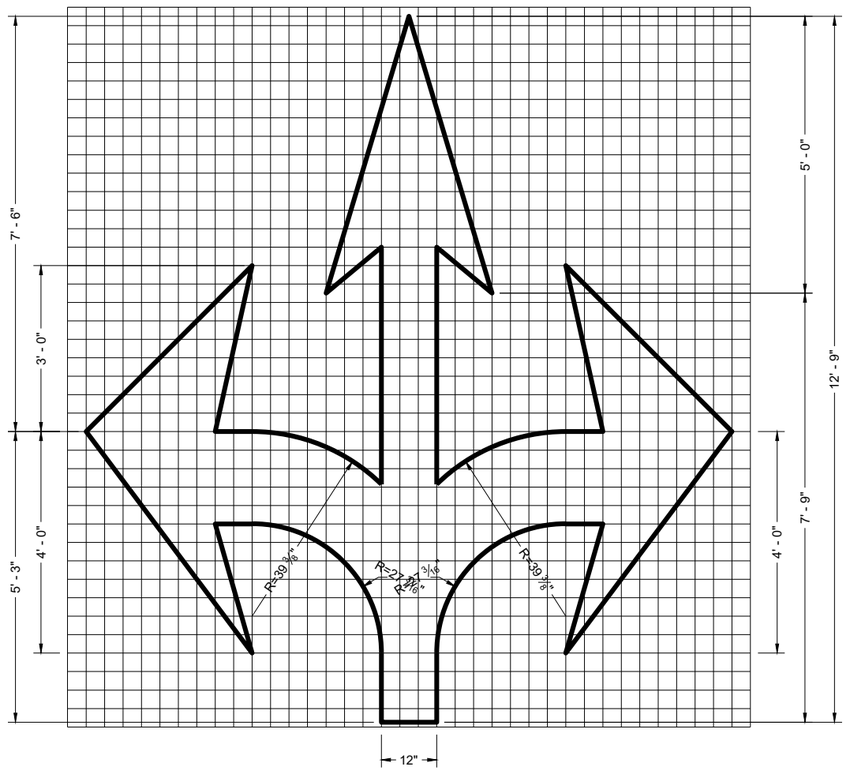
TYPE 3



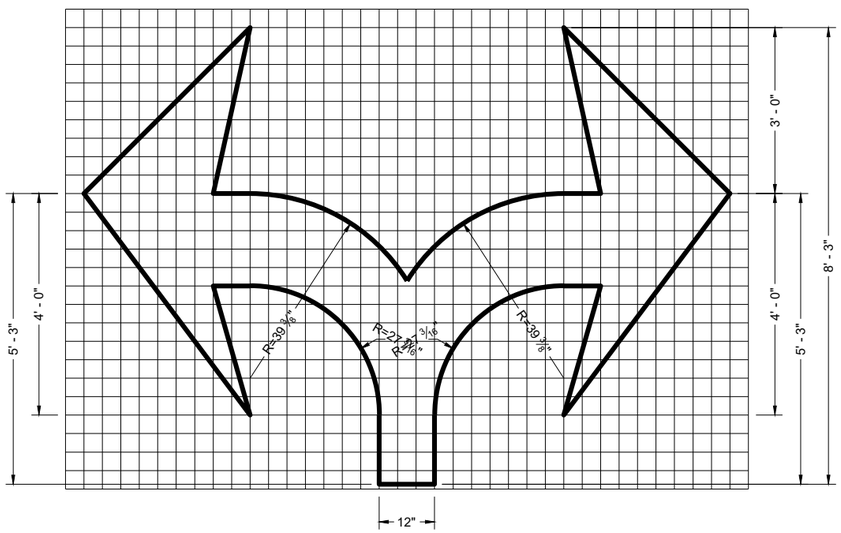
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 15C07-16c

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.

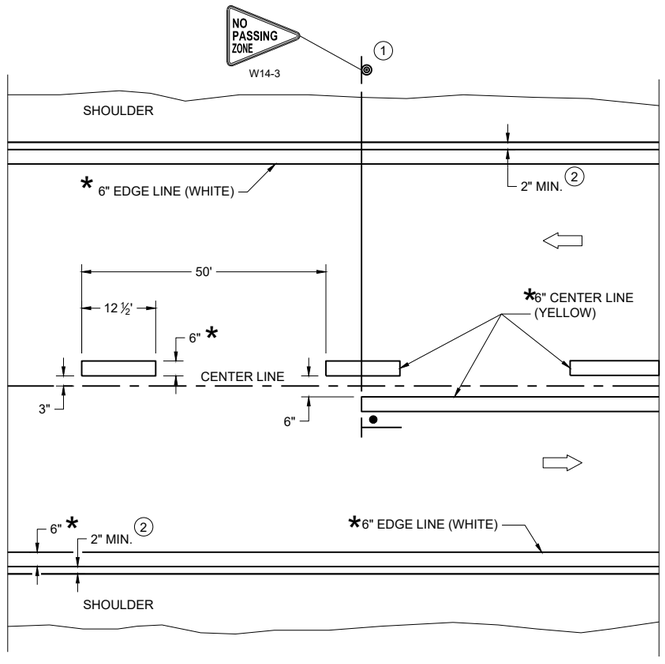
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

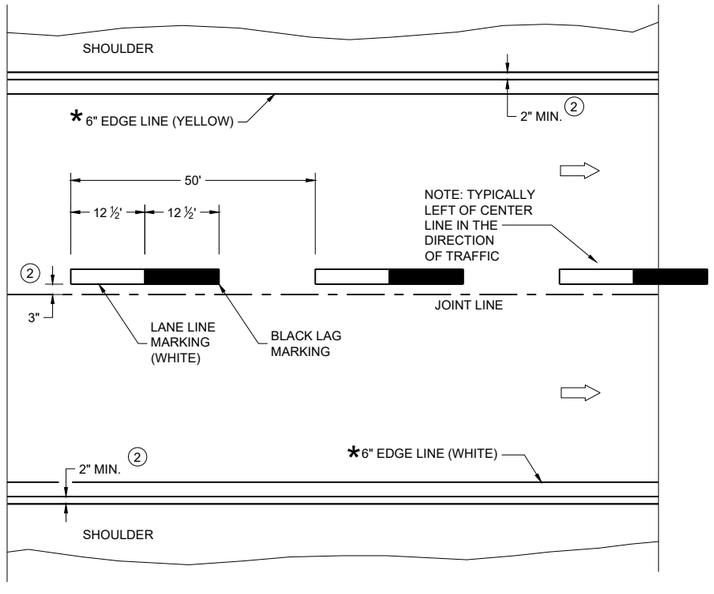
"T" MARKING

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 2023
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

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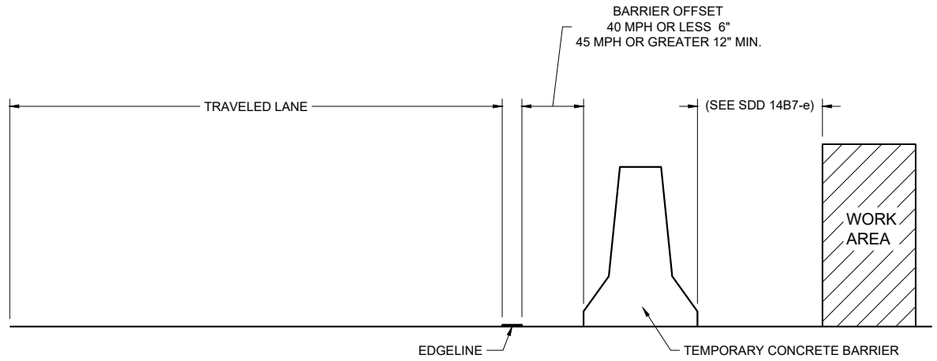
SDD 15C08-23a



TEMPORARY BARRIER OFFSET FROM EDGELINE

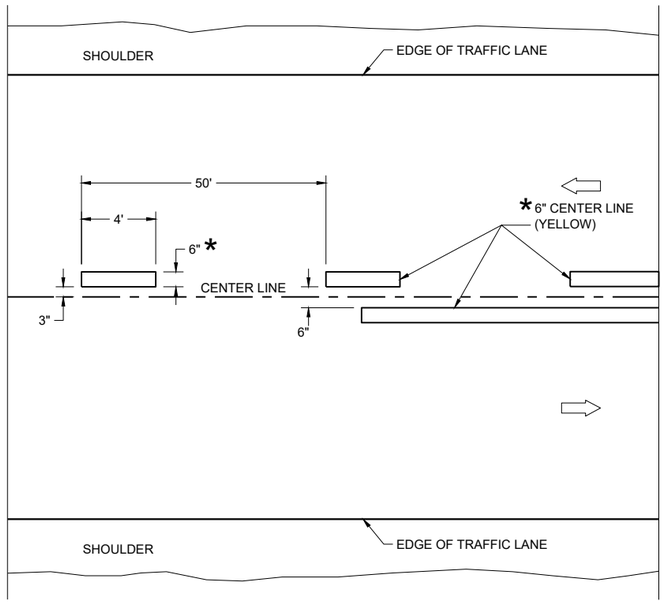
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

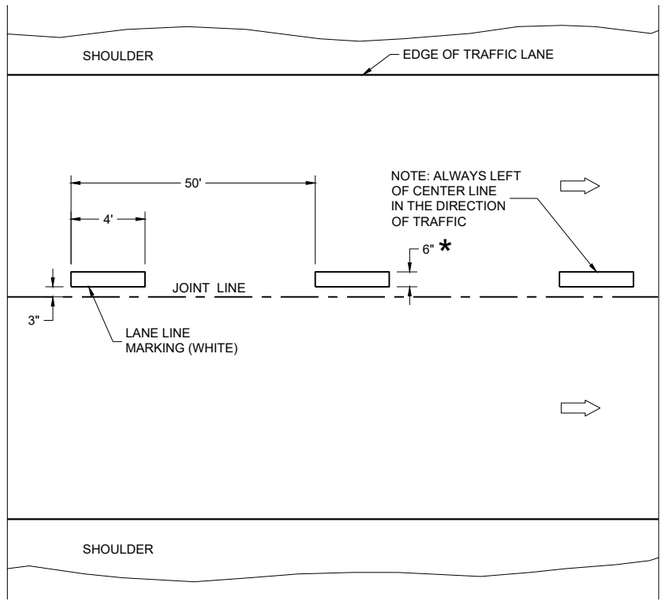
LEGEND

DIRECTION OF TRAFFIC

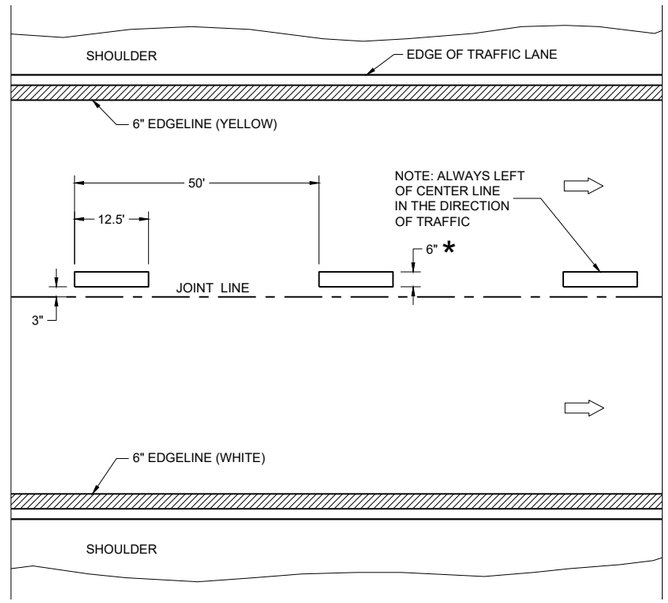
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer

FHWA

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SDD 15C08-23b

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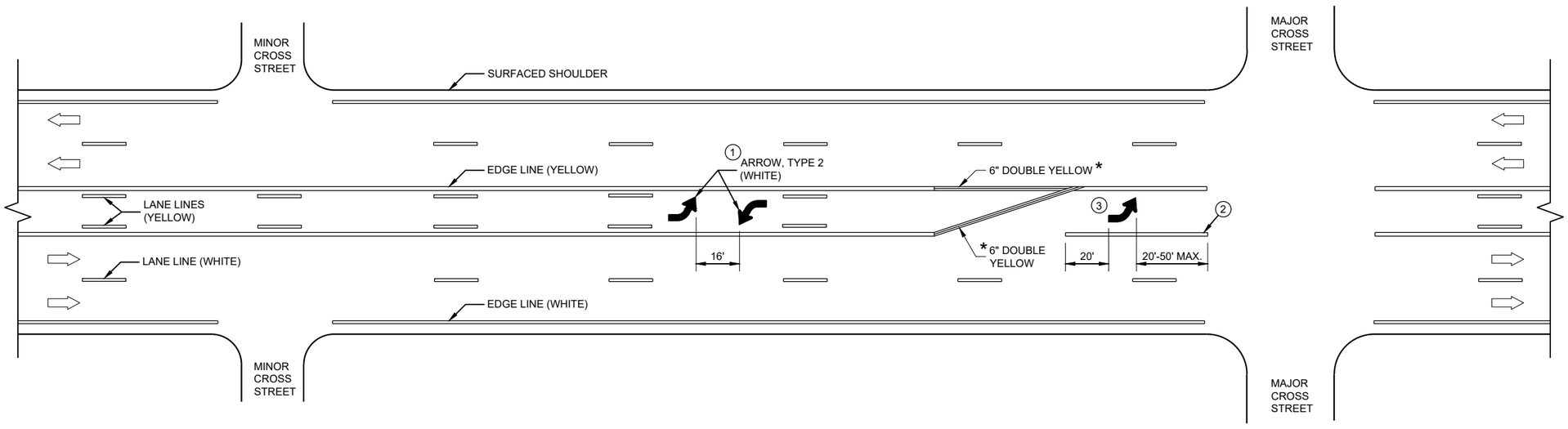
SDD 15C08-23b

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 10" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

⇨ DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY LEFT TURN LANE

6

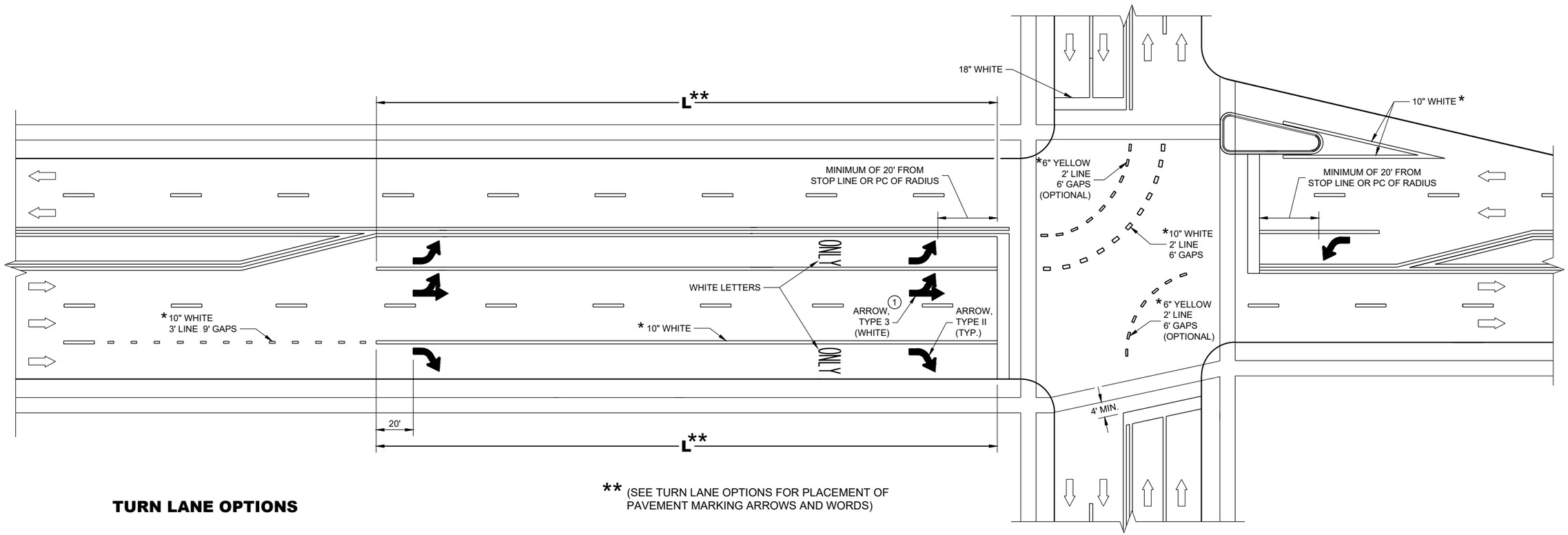
SDD 15C08-23c

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA· 103

6

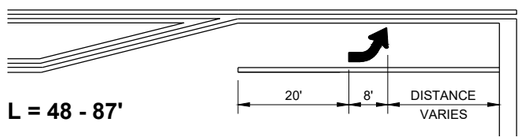
SDD 15C08-23c



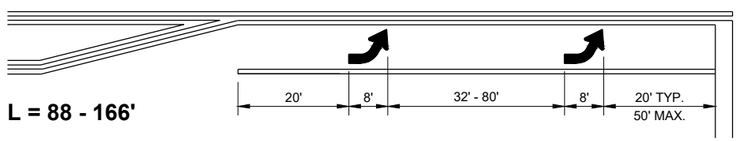
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

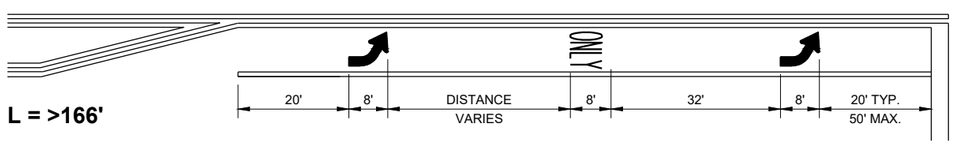
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 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

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

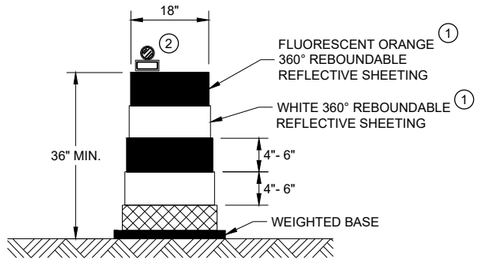
PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 15C08-23d

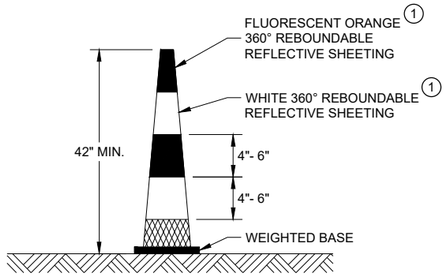
GENERAL NOTES

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

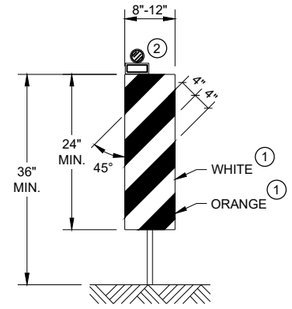
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

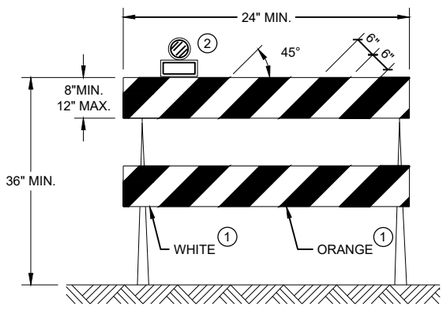
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



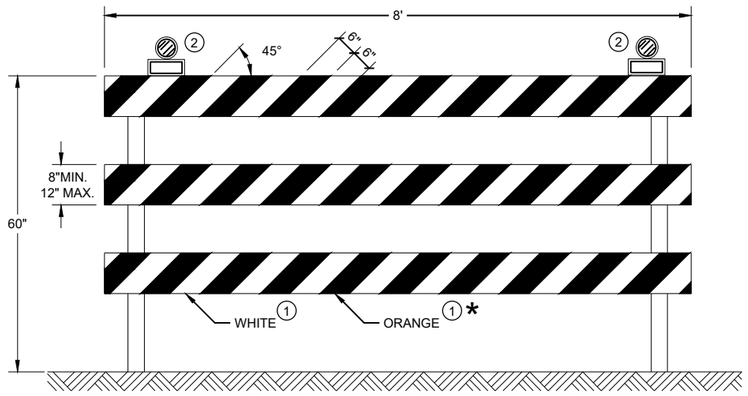
VERTICAL PANEL

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

APPROVED
November 2022 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD 15C11 - 10b

6

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.

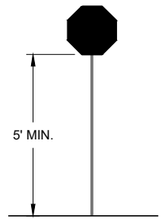
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

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.



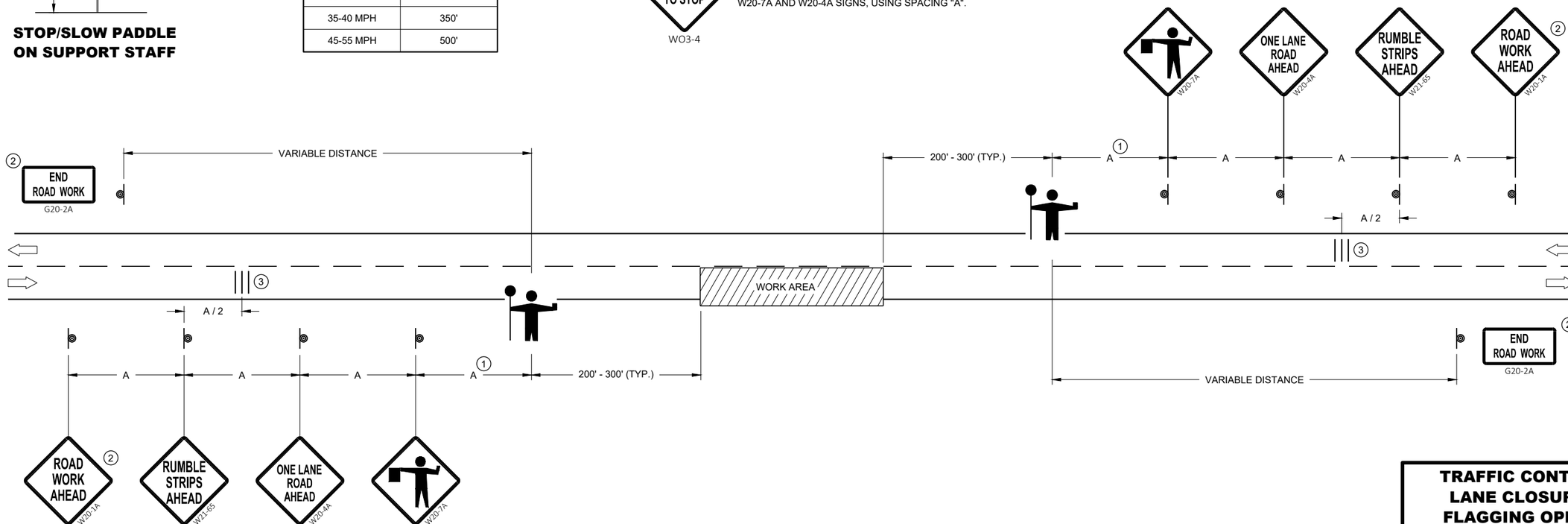
STOP/SLOW PADDLE ON SUPPORT STAFF

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
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C12 - 09a

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SDD 15C12 - 09a

GENERAL NOTES

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL CONE 42-INCH
- TRAFFIC CONTROL DRUM
- TEMPORARY PORTABLE RUMBLE STRIP ARRAY
- DIRECTION OF TRAFFIC
- WORK AREA
- AFAD — AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

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

IF THE AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) STOPS WORKING, 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.

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.

(1) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(2) IF FLAGGERS ARE PHYSICALLY NEEDED TO FLAG, REPLACE WO3-4 SIGNS WITH W20-7A SIGNS.

TEMPORARY PORTABLE RUMBLE STRIPS

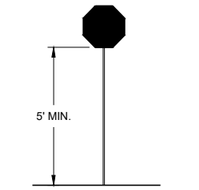
UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

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.

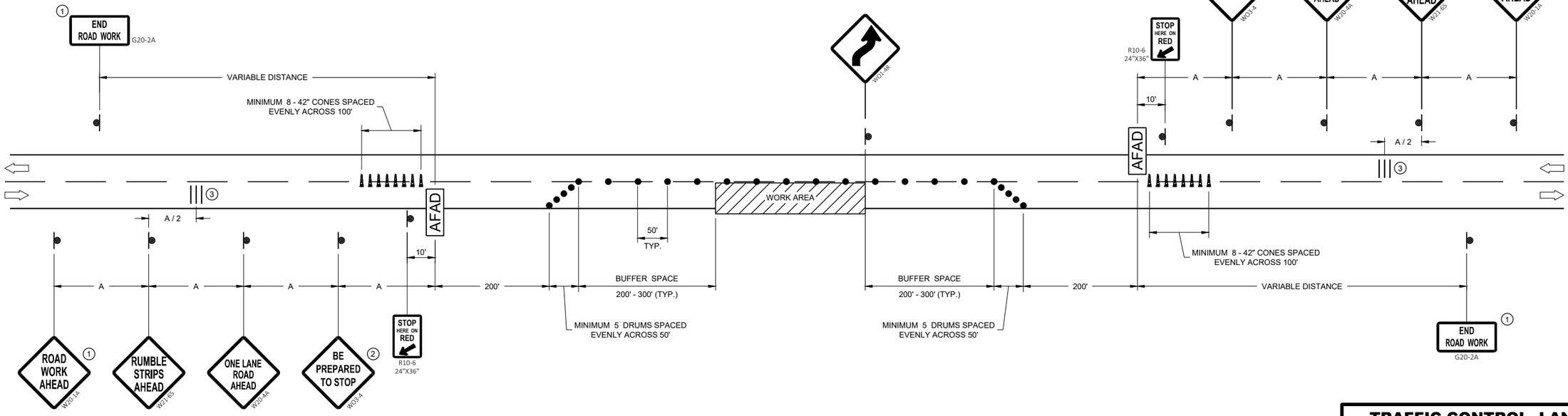
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSELY AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER.



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'



TRAFFIC CONTROL, LANE CLOSURE WITH AUTOMATED FLAGGER ASSISTANCE DEVICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

SDD 15C12 - 09b

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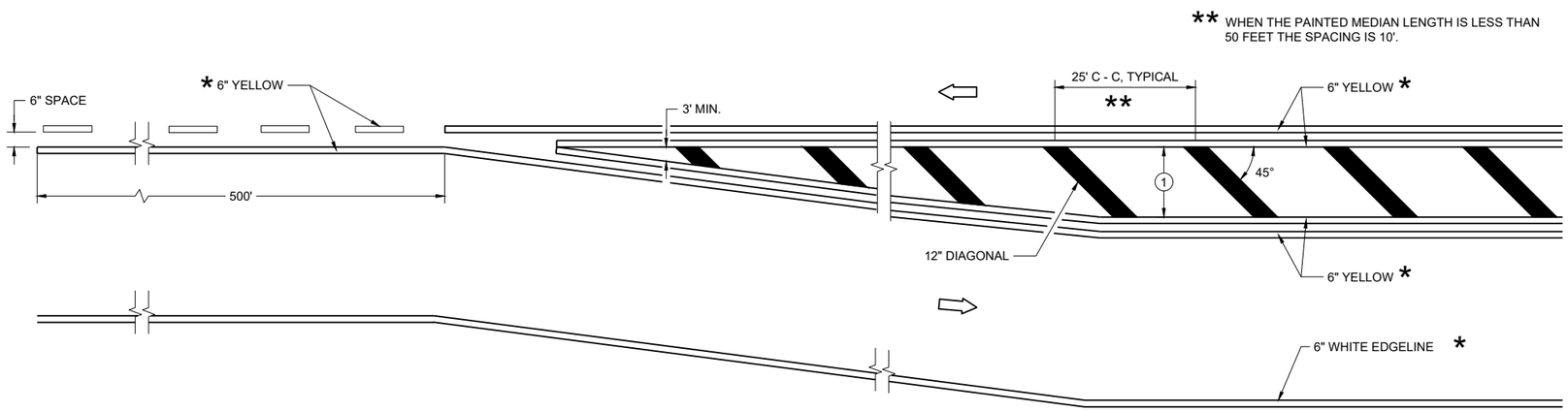


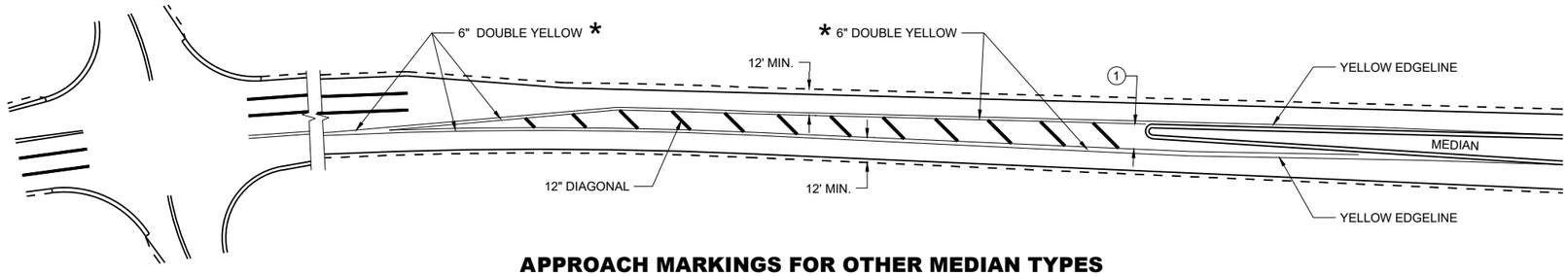
MEDIAN ISLAND DETAIL

GENERAL NOTES

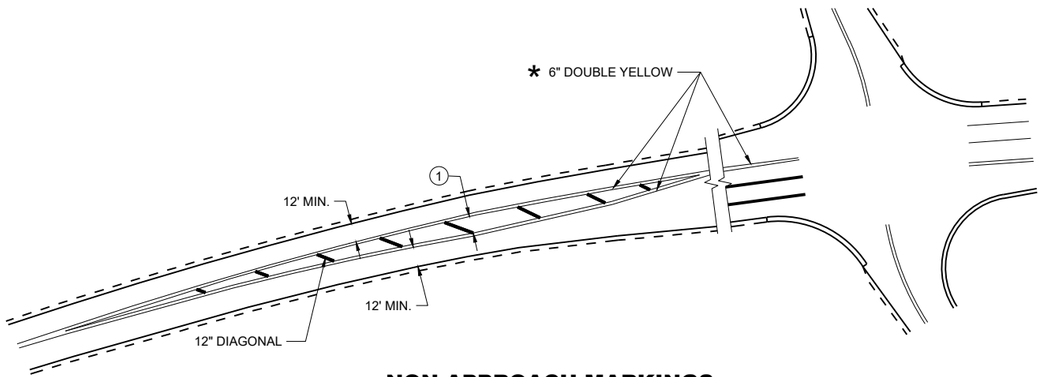
(1) DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C18-09a

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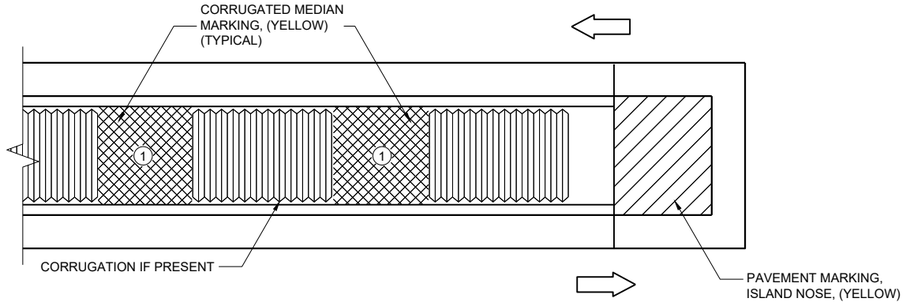
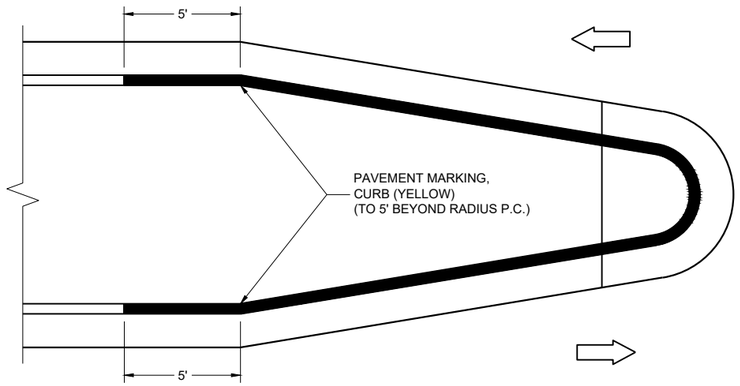
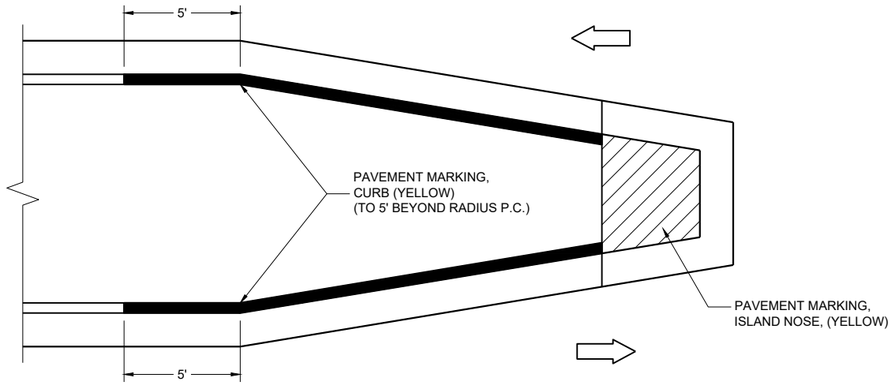


MEDIAN ISLAND WITH SQUARE BLUNT NOSE



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.

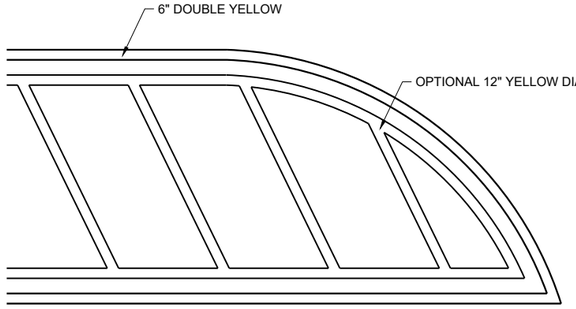
(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL



FLUSH MEDIAN ISLAND NOSE

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

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SDD 15C18-09b

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

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 OPERATING IN CAUTION MODE. 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.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

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.

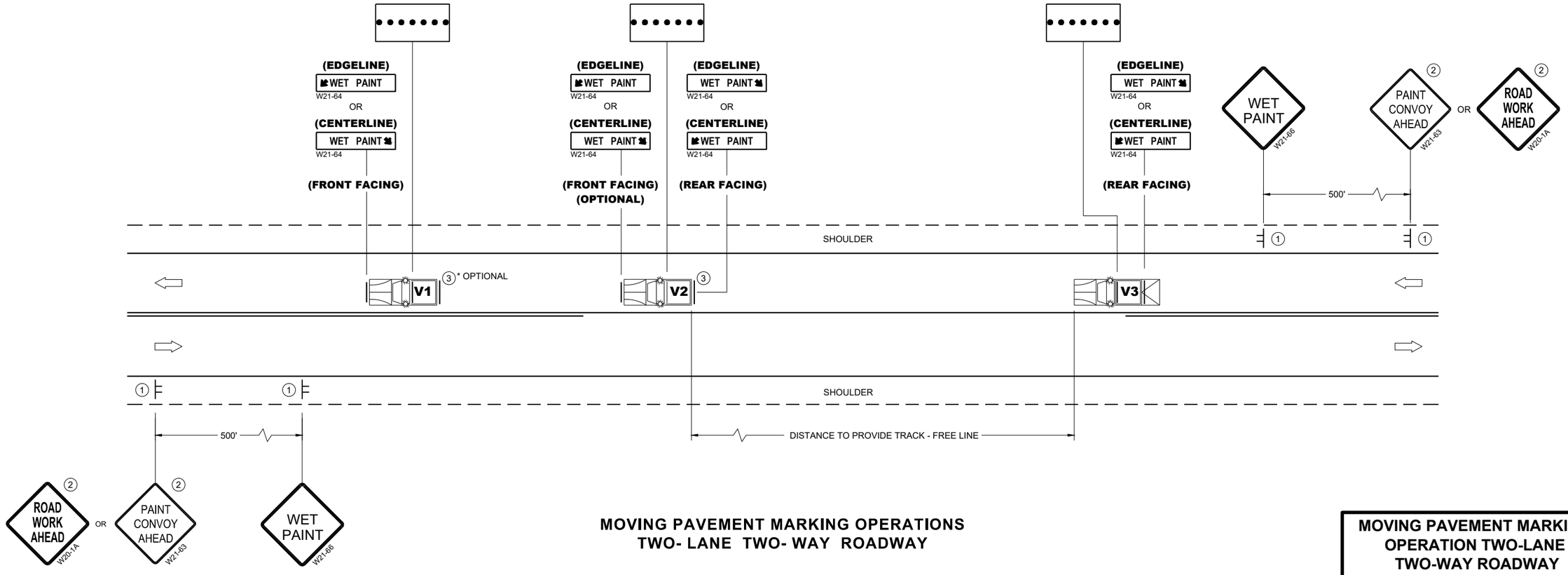
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

(3) V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.



MOVING PAVEMENT MARKING OPERATIONS TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

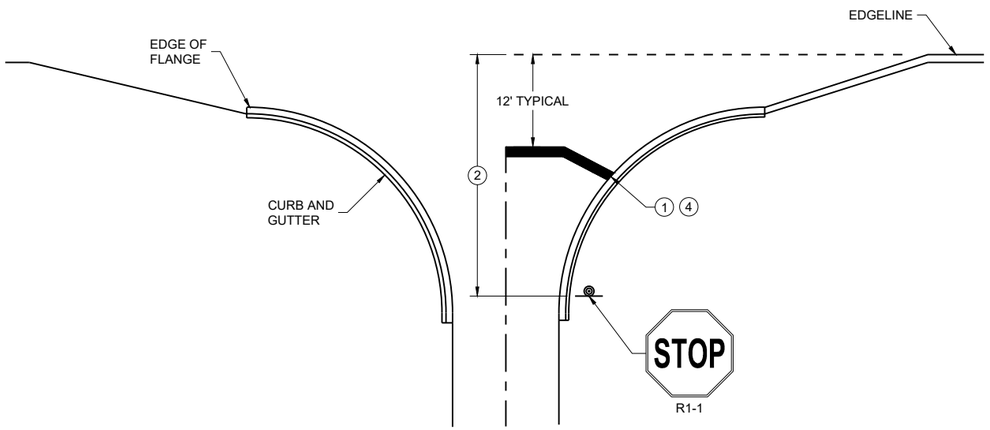
APPROVED
March 2024
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

6
SDD 15C19-9a

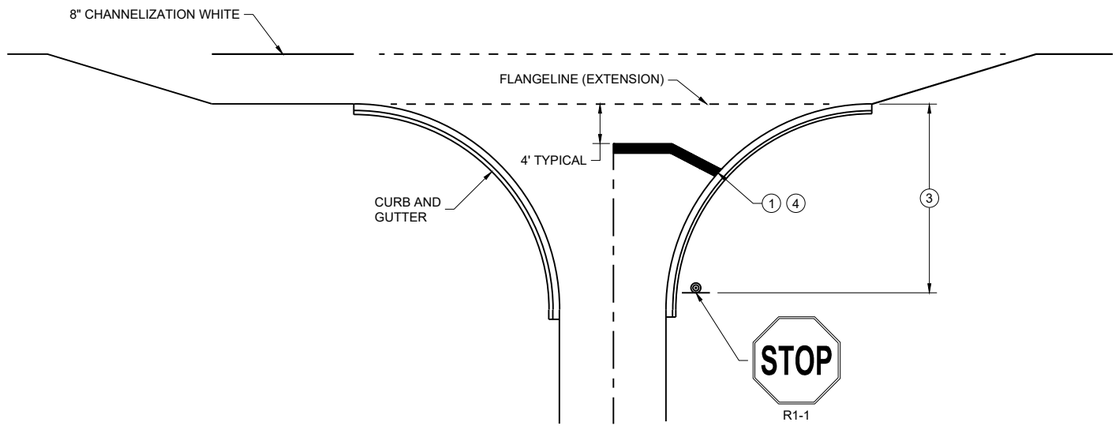
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

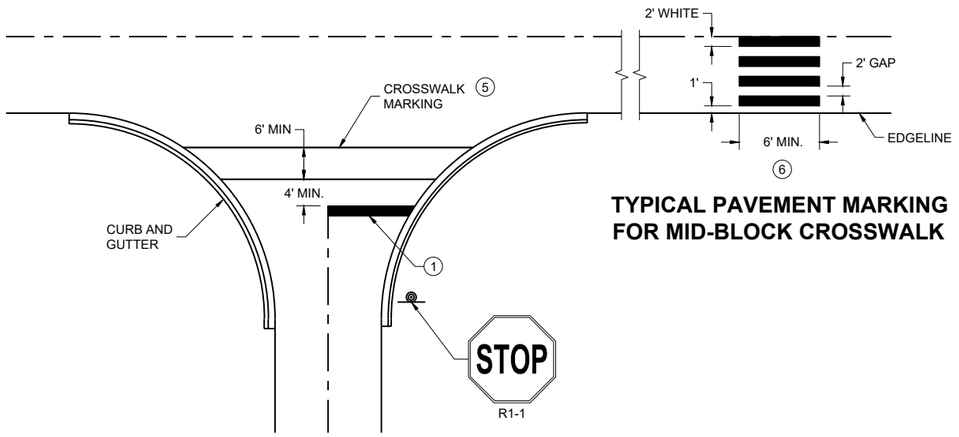
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE 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.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

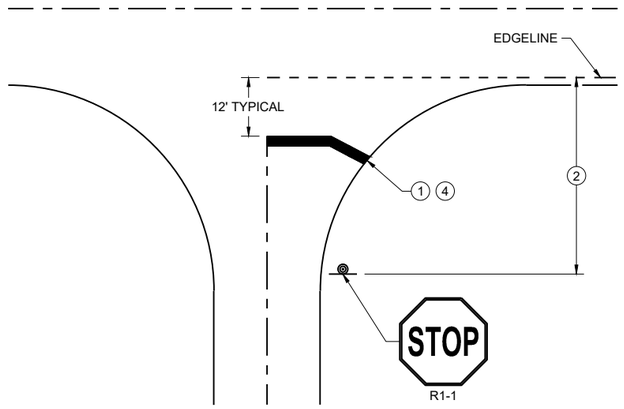


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS 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

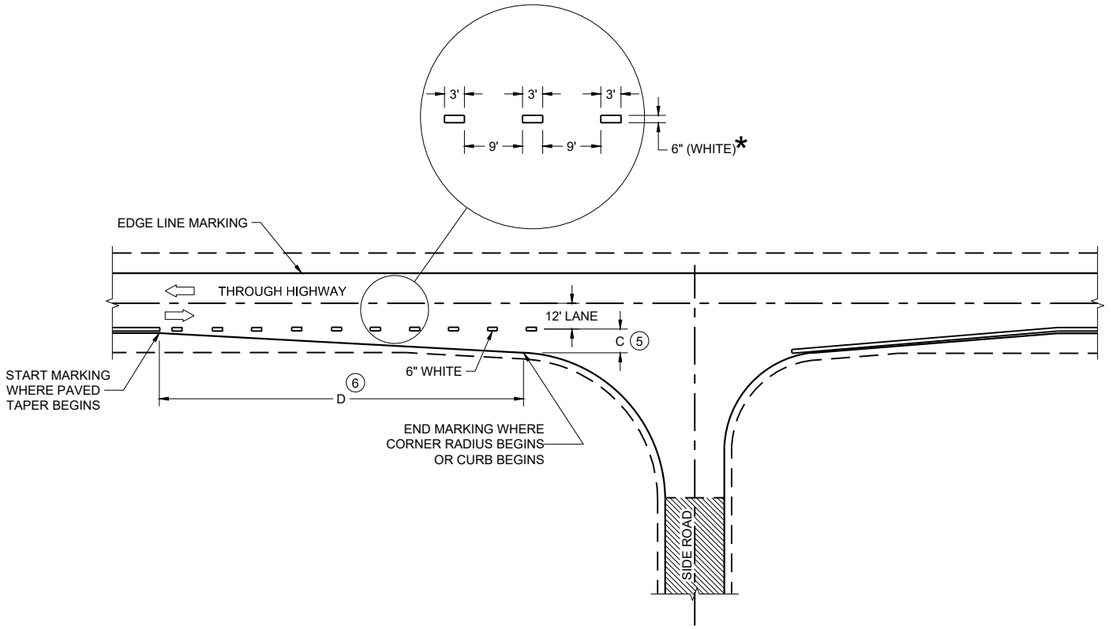
March 2024 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

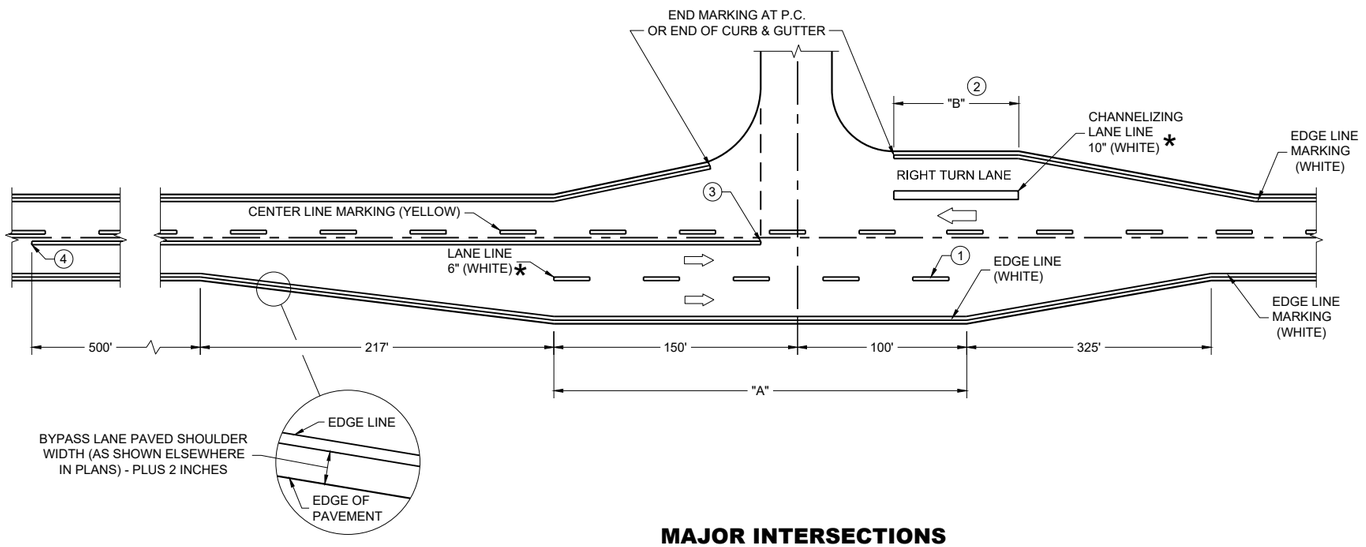
FHWA

6

SDD 15C33-05



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

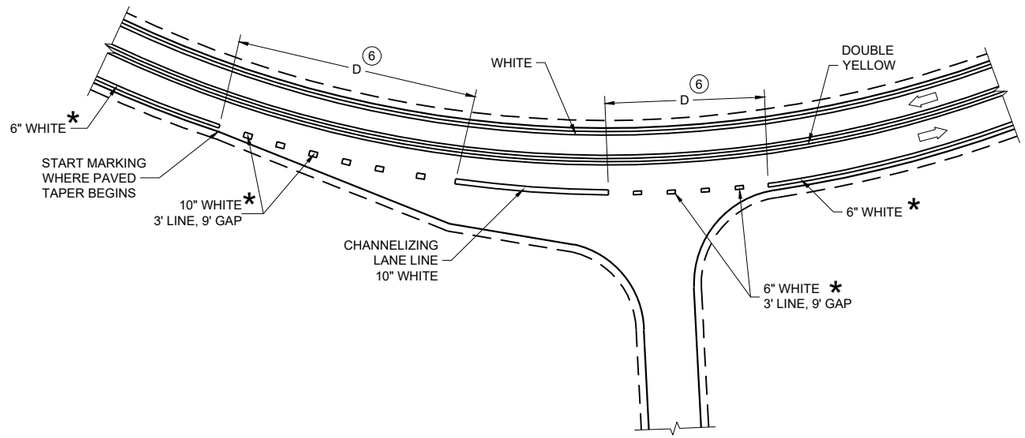
GENERAL NOTES

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

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

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 THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

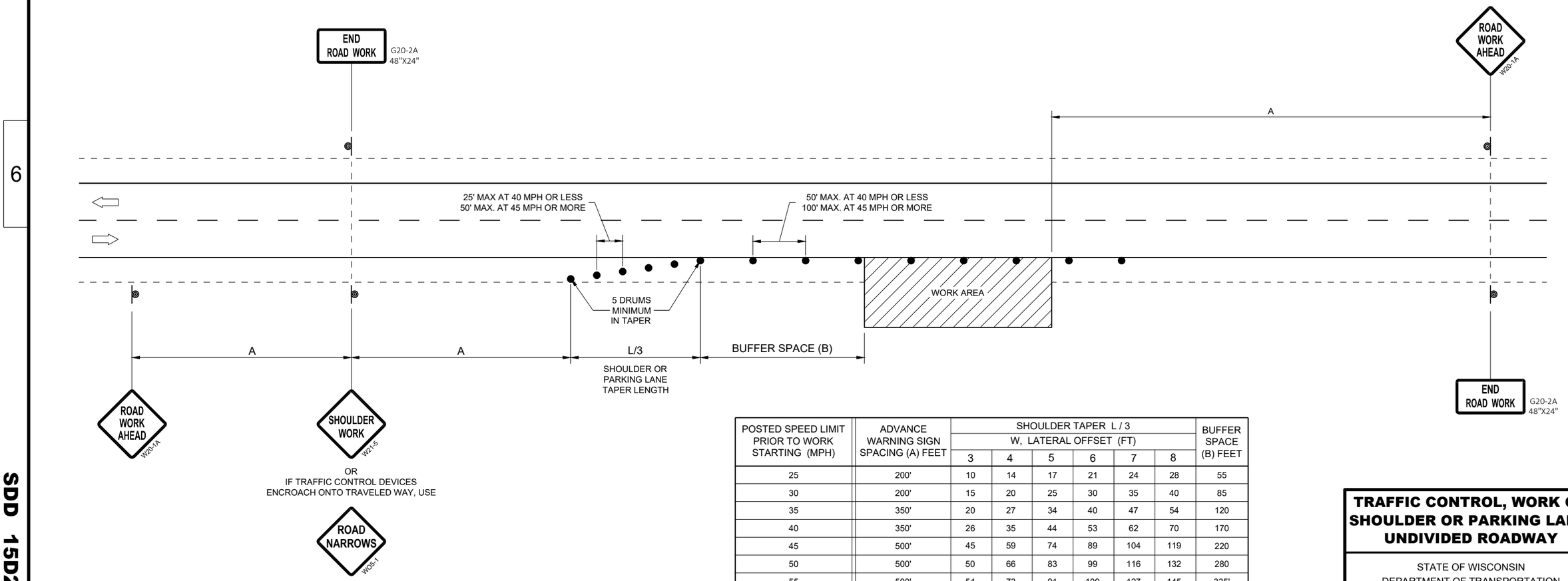
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

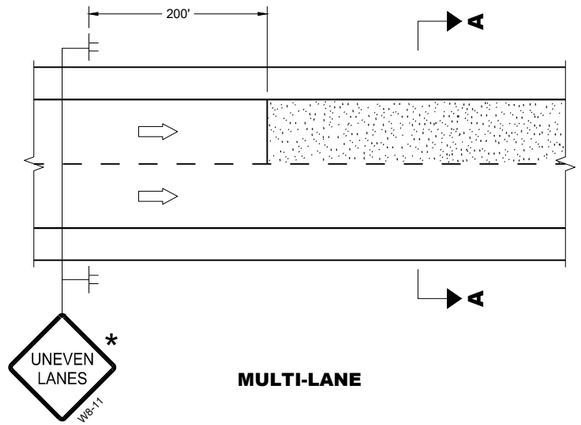
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

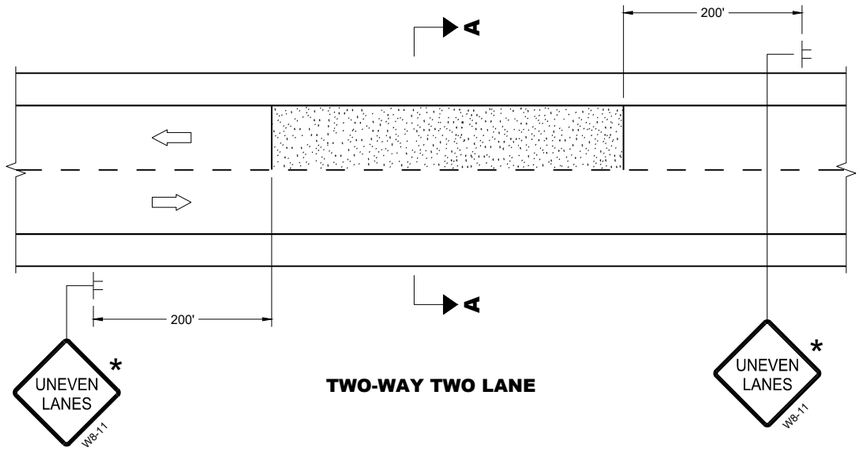
FHWA

SDD 15D28 - 04

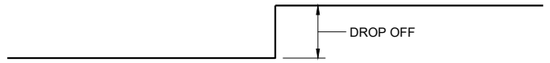
SDD 15D28 - 04



MULTI-LANE

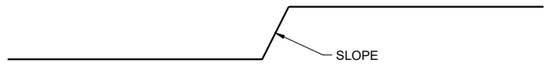


TWO-WAY TWO LANE

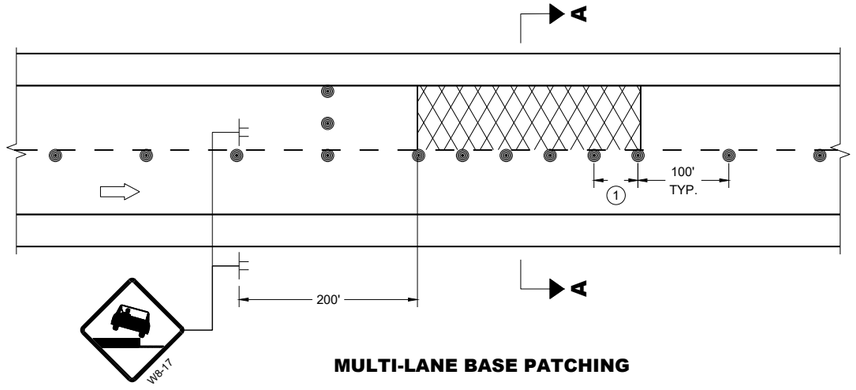


SECTION A - A

OR



SECTION A - A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

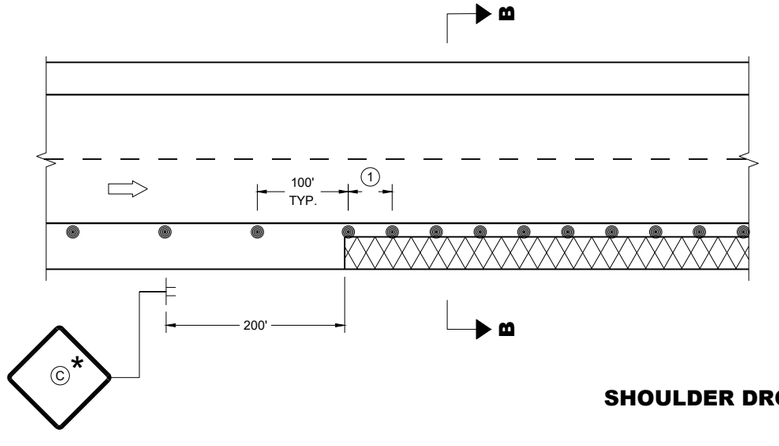
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

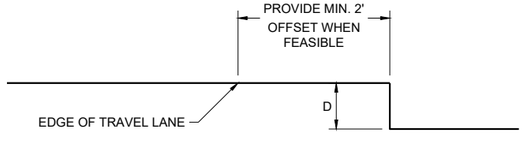
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A
	PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6
SDD 15D39-03

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

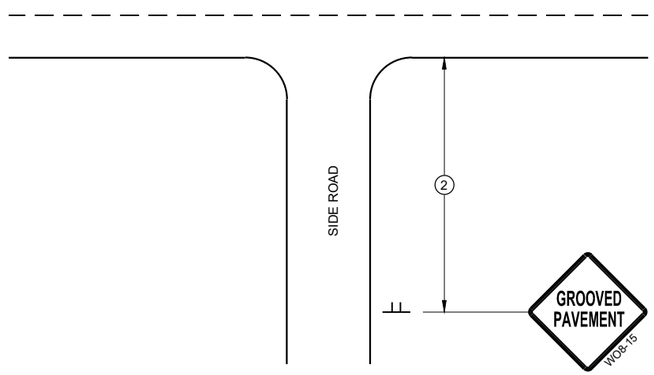
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

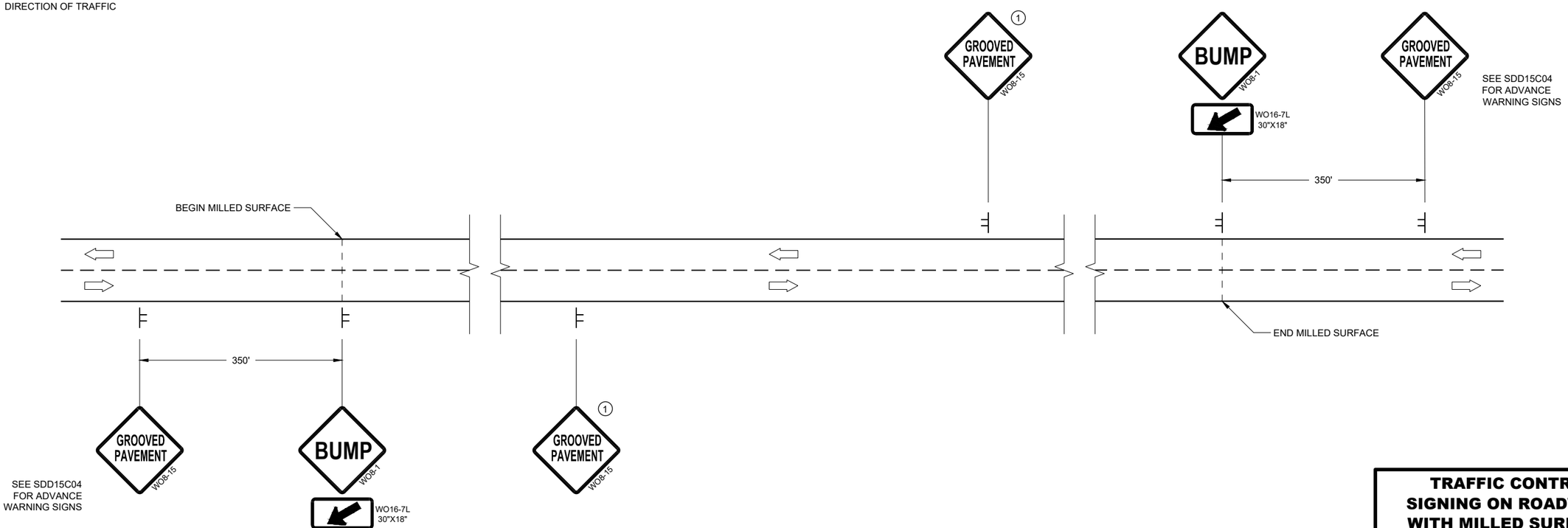
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15D44 - 02

SDD 15D44 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

(1) PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED OR LOOSE GRAVEL SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

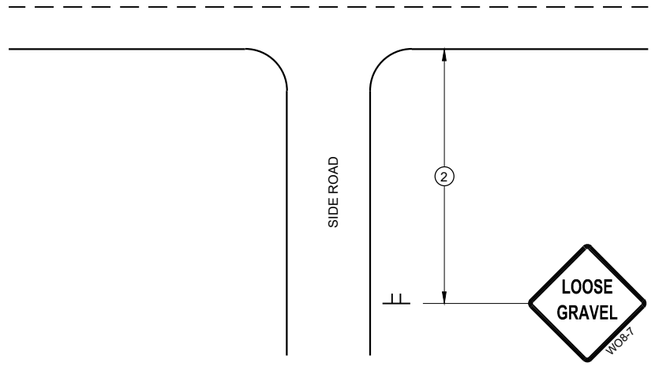
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

(3) ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

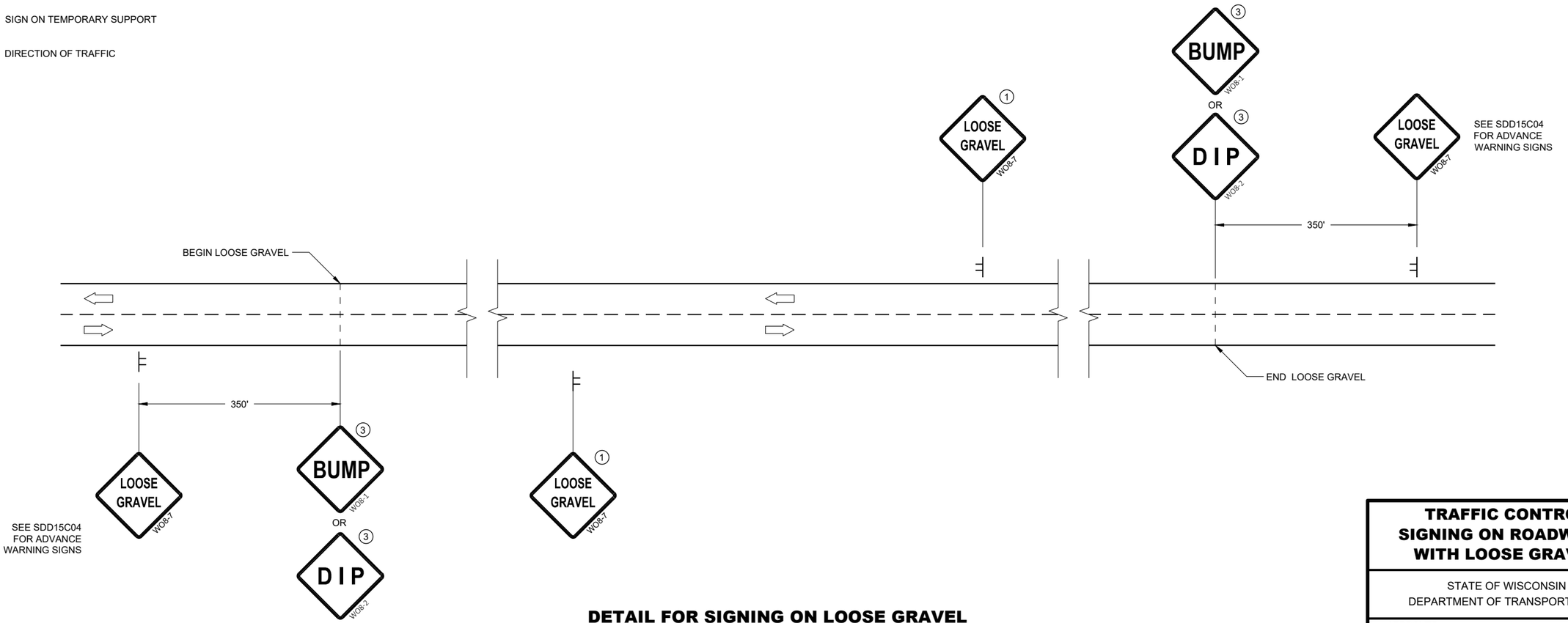
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D45 - 03

LEGEND

V1 WORK VEHICLE

V2 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

WORK AREA

DIRECTION OF TRAFFIC

POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.

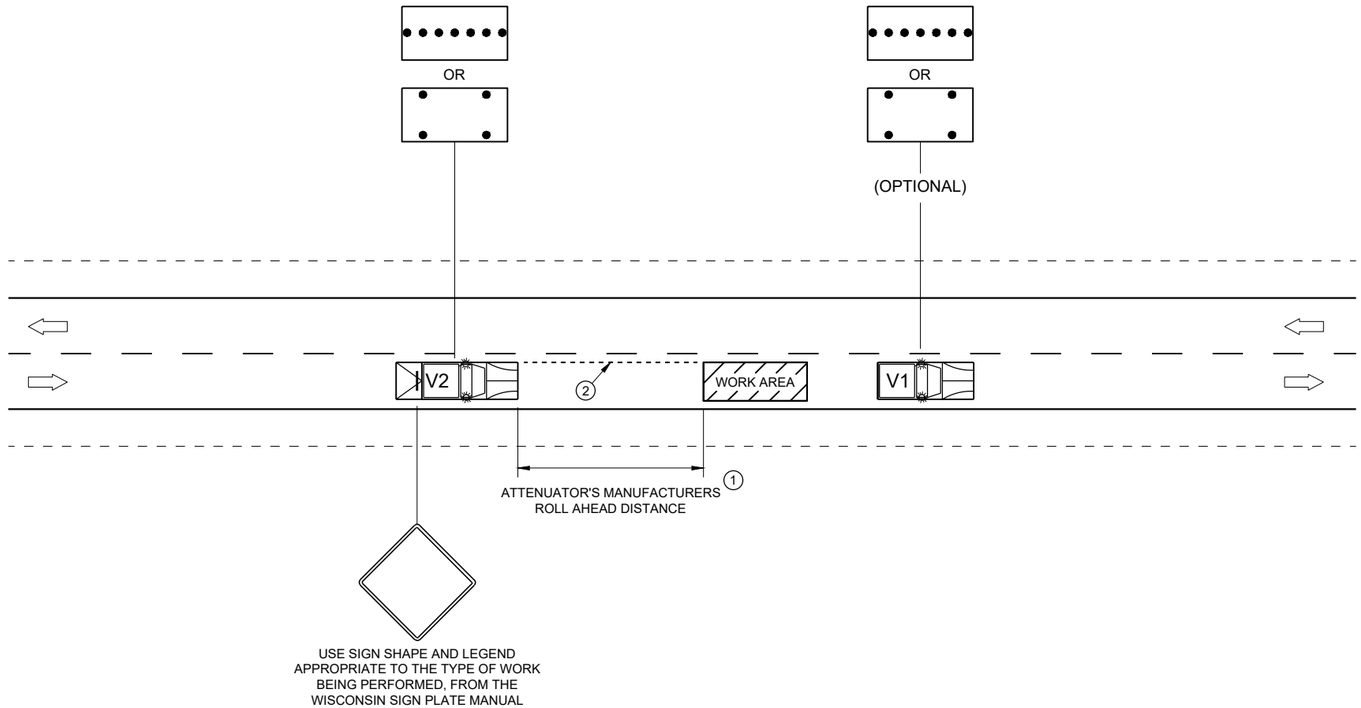
ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

(1) DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, 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 OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

(2) ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

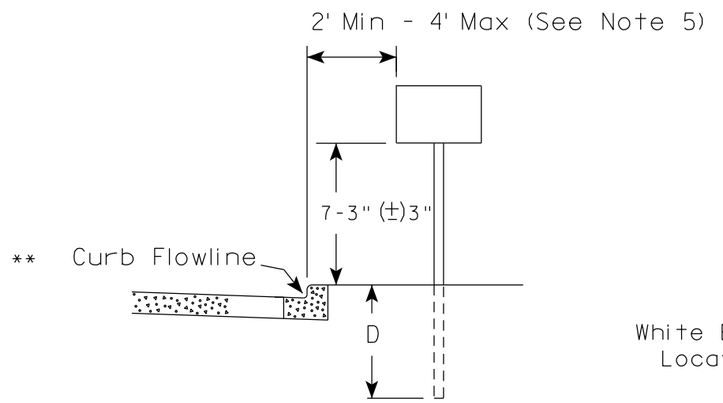
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

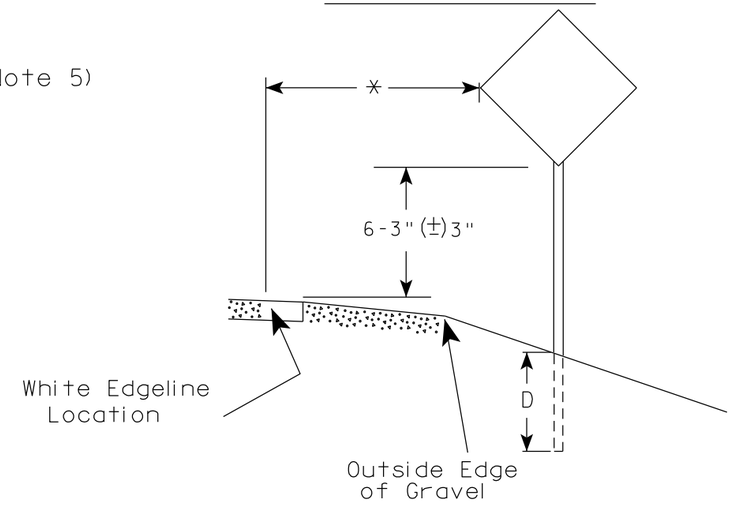
6

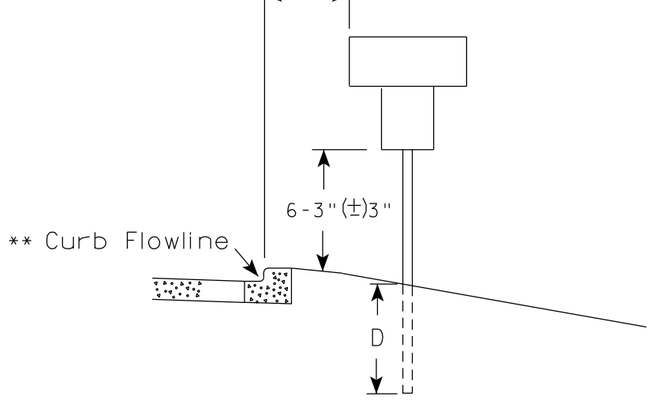
SDD 15D51 - 01

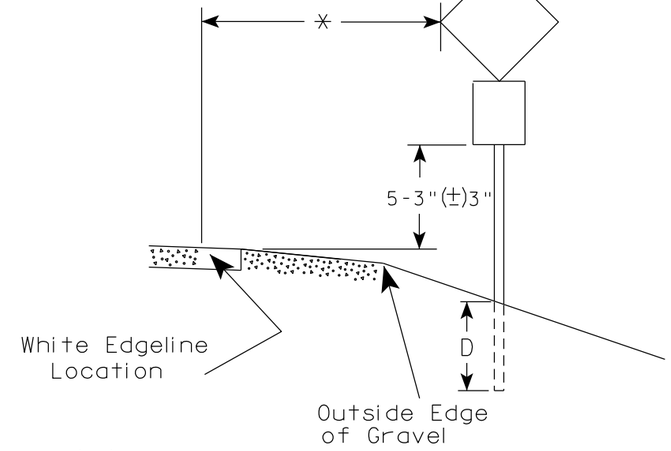
URBAN AREA



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" (±) 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".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

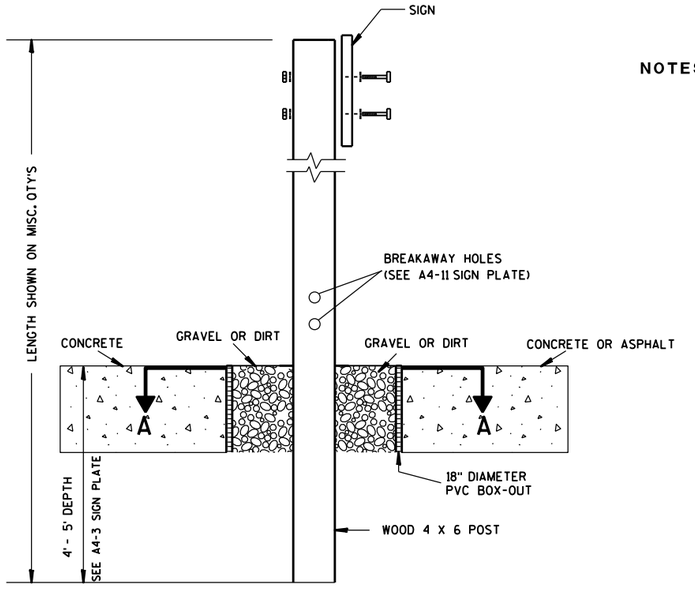
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

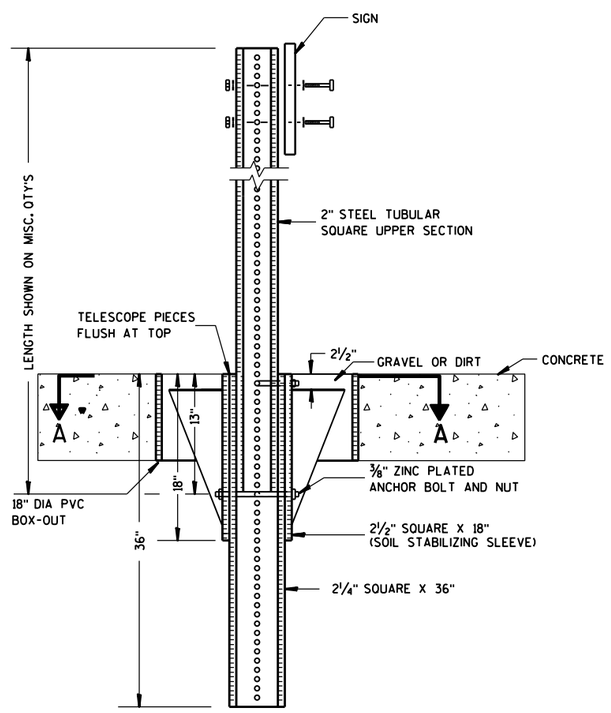
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 118	E



ELEVATION VIEW

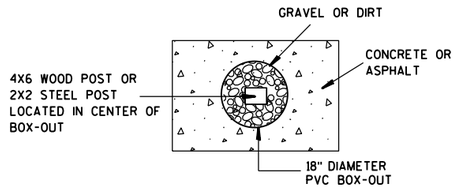
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

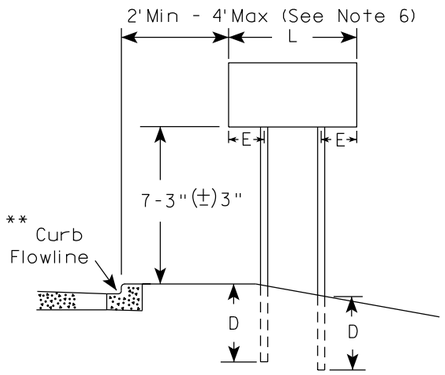
APPROVED Matthew R Rauch
for State Traffic Engineer

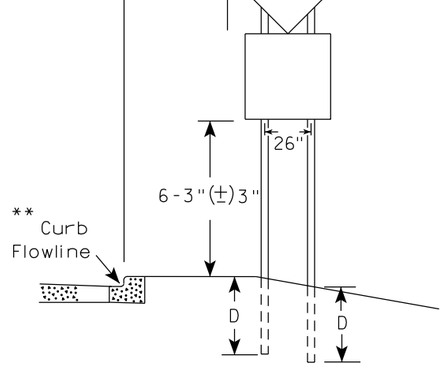
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

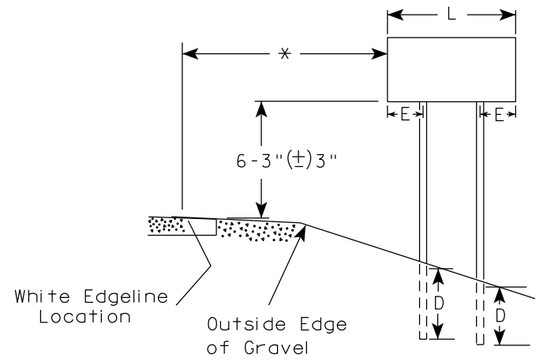
URBAN AREA

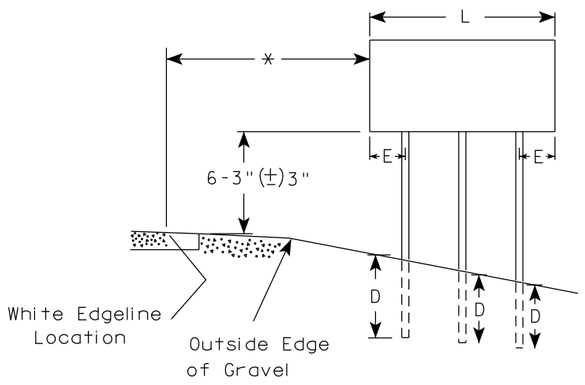


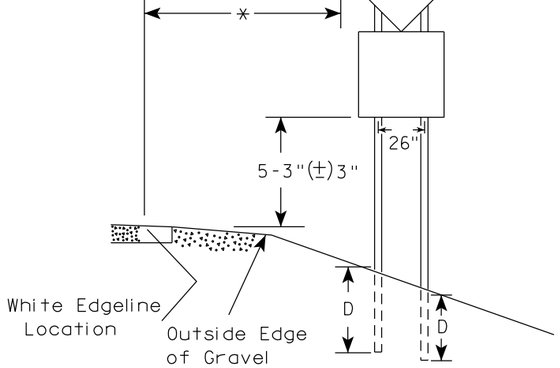


48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN

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" (±) 3" or 6'-3" (±) 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" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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.

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"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

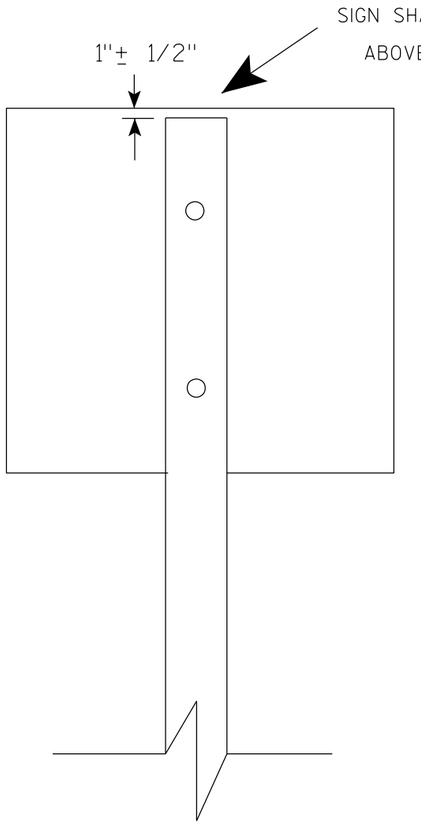
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

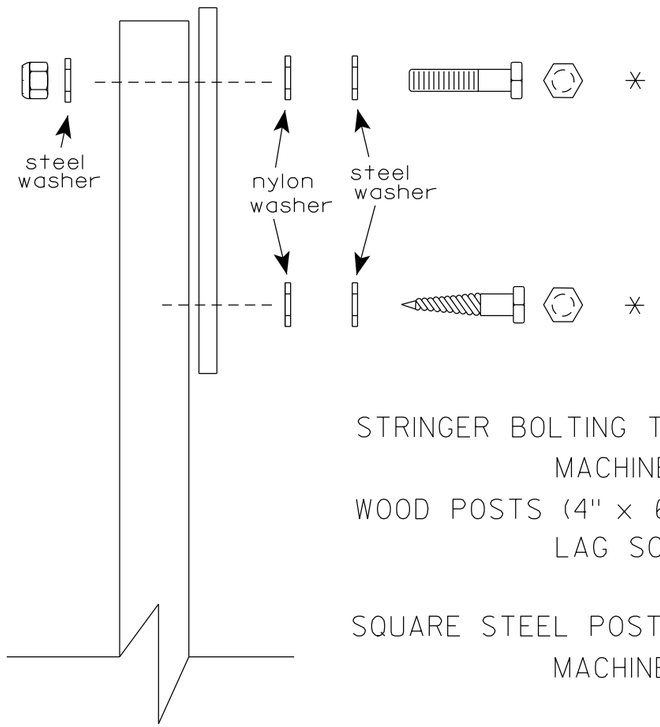
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 120	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

PROJECT NO:

SHEET NO: 121 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 01-APRIL-2020 PLOT BY : dotc4c

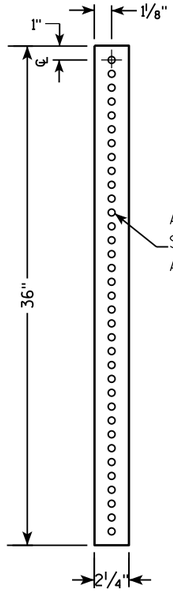
WISDOT/CADDS SHEET 42

7

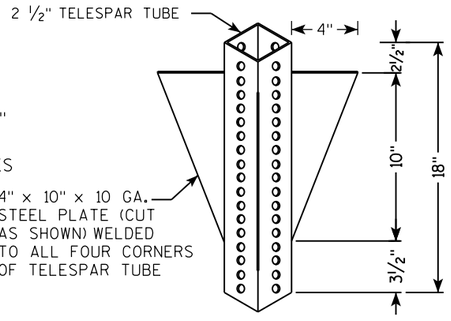
7

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

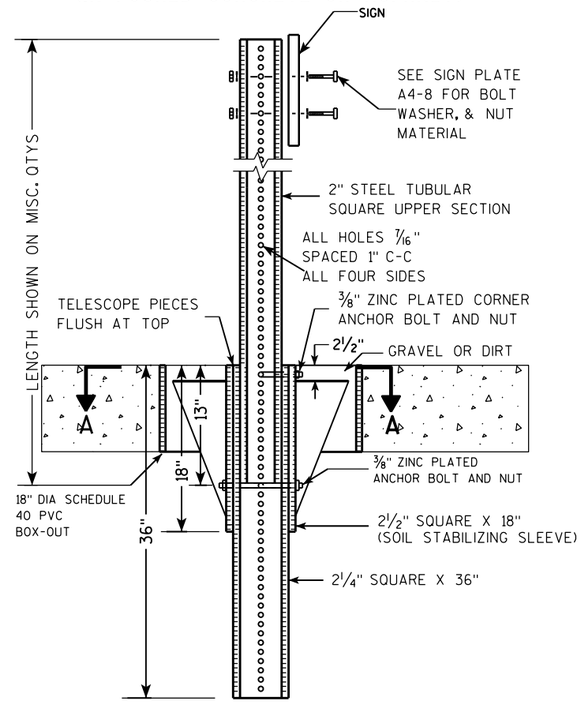
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



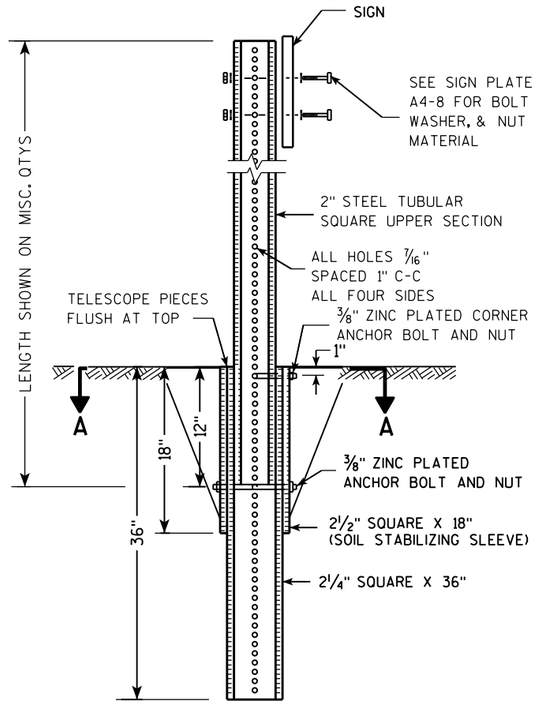
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

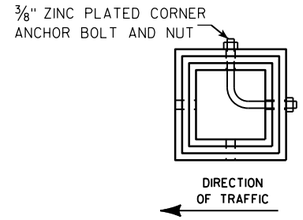


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

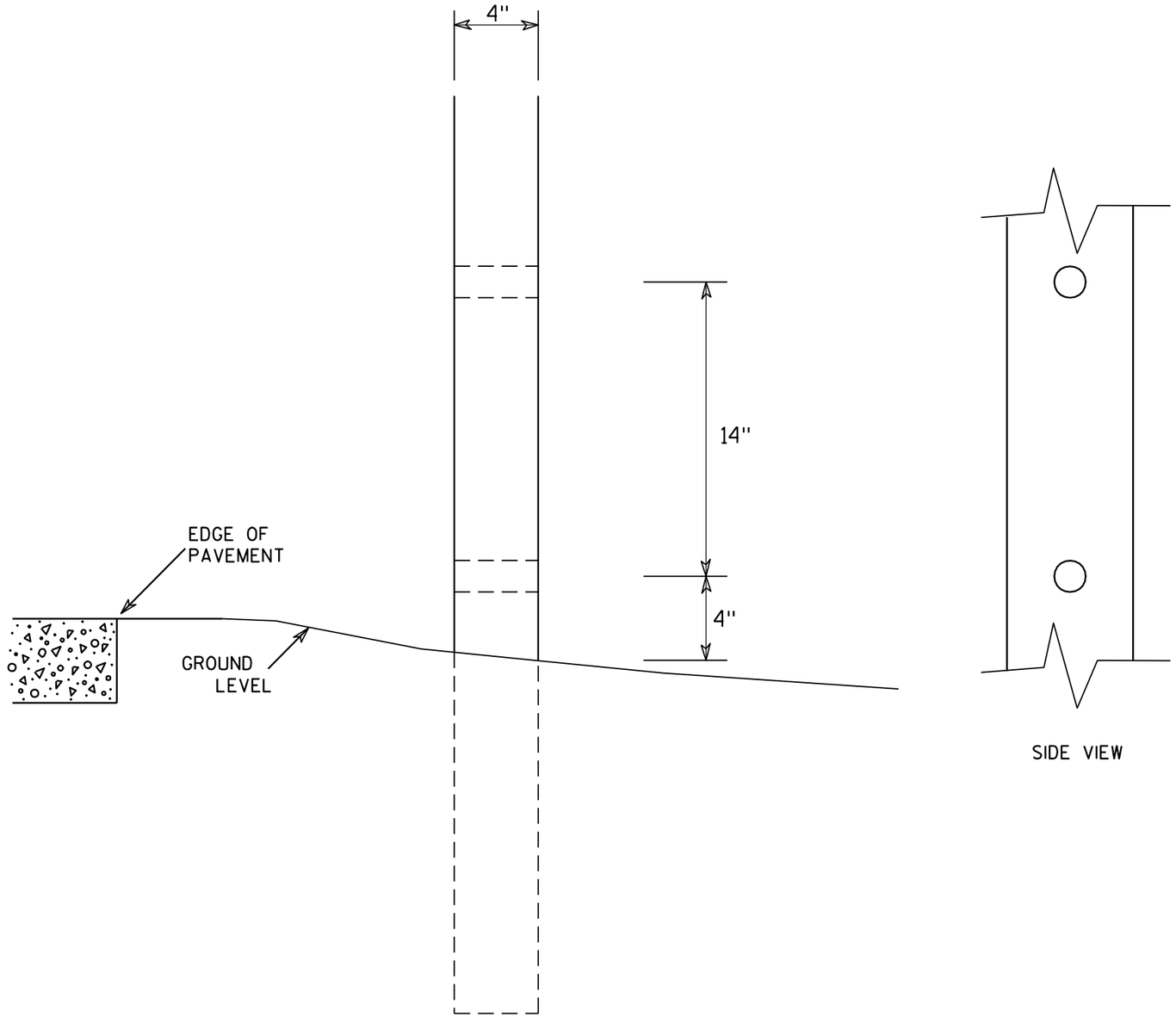
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 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

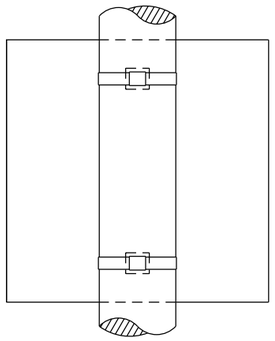
APPROVED Chester J Spang for State Traffic Engineer

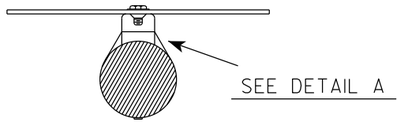
DATE 3/27/97 PLATE NO. A4-11.2

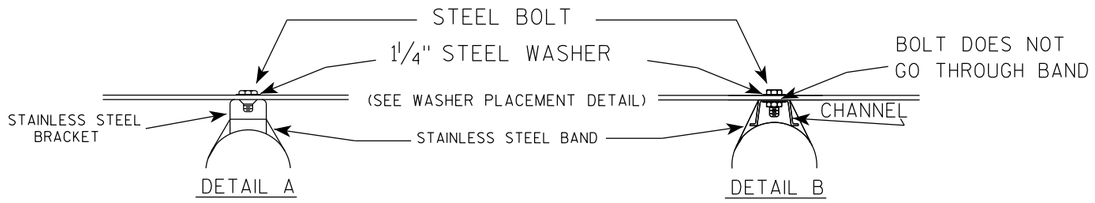
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 123	E

BANDING

SINGLE SIGN



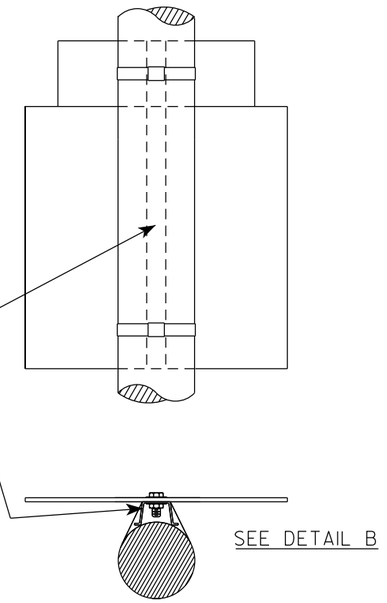




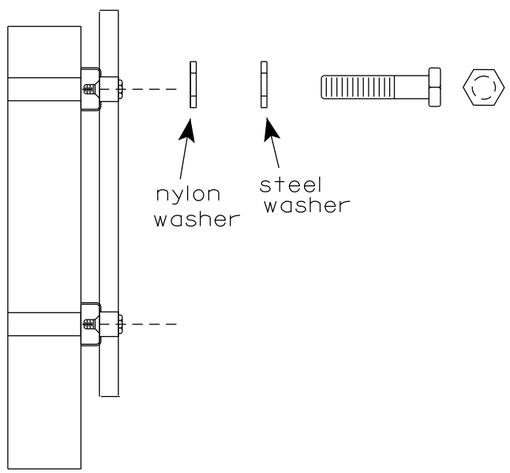
GENERAL NOTES

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

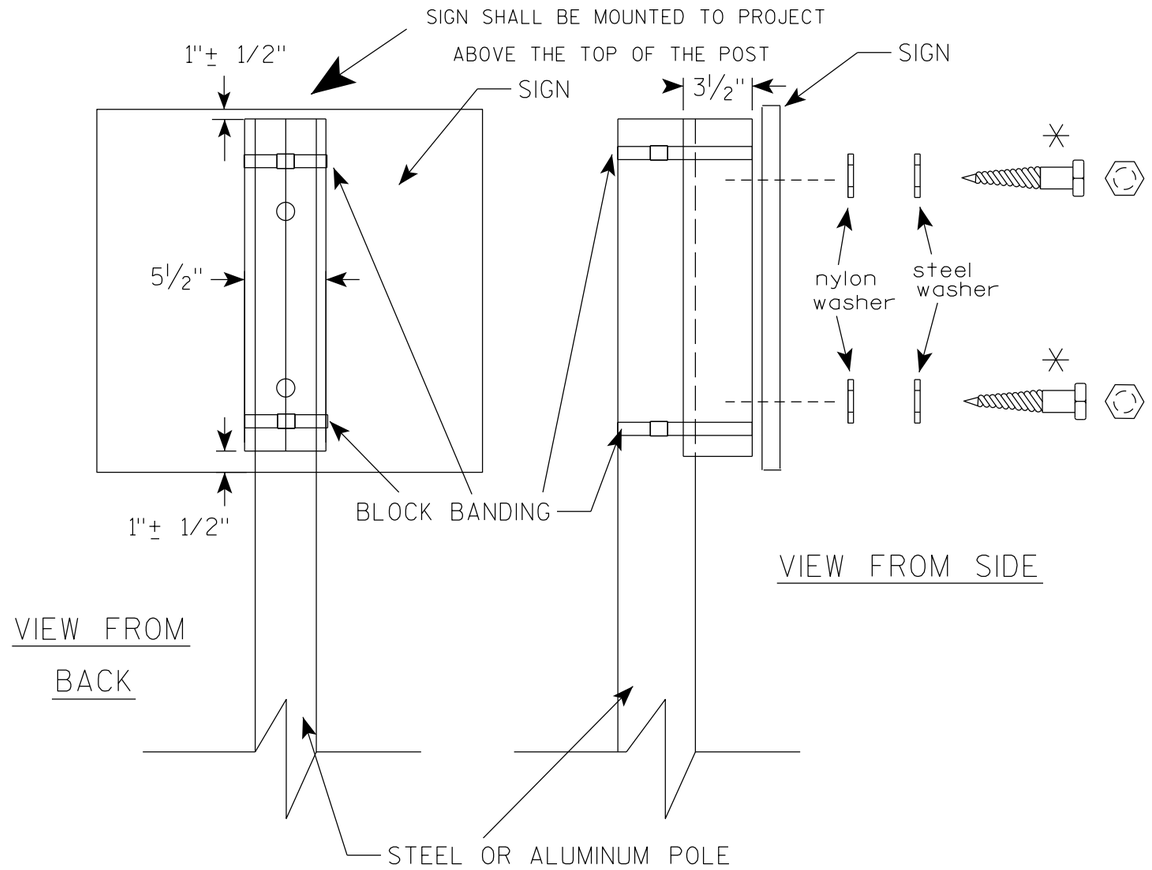
WISCONSIN DEPT OF TRANSPORTATION

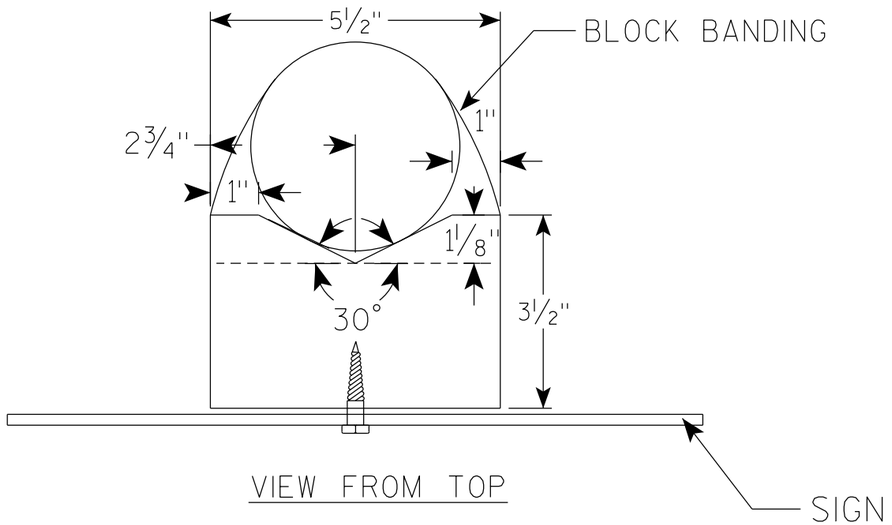
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-9.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 124	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$





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)

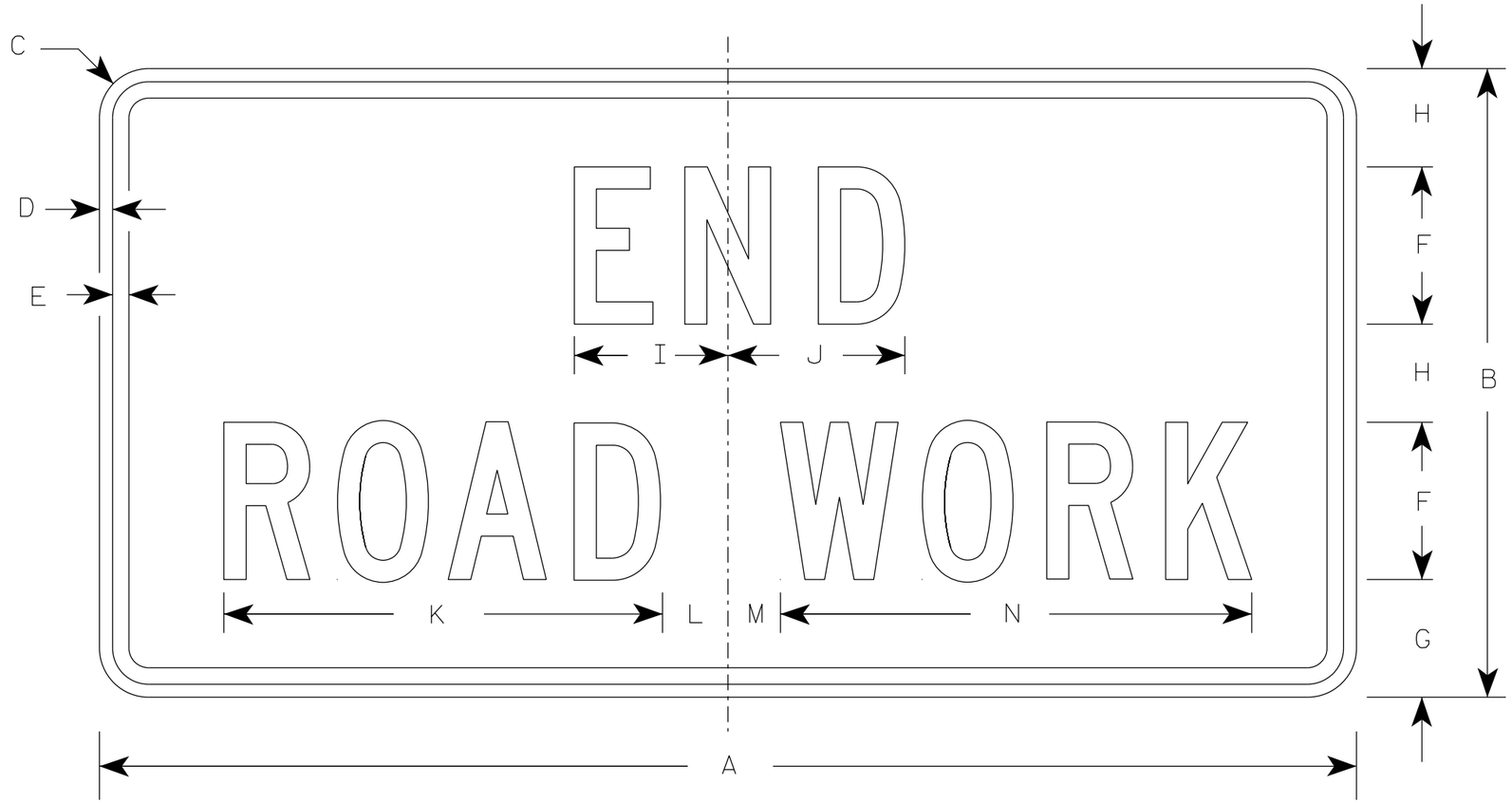
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 125 E



G20-2A

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.

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	18	1 1/2	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
2	48	24	1 7/8	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
2M	48	24	1 7/8	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
3	48	24	1 7/8	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
4	48	24	1 7/8	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
5	48	24	1 7/8	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

STANDARD SIGN

G20-2A

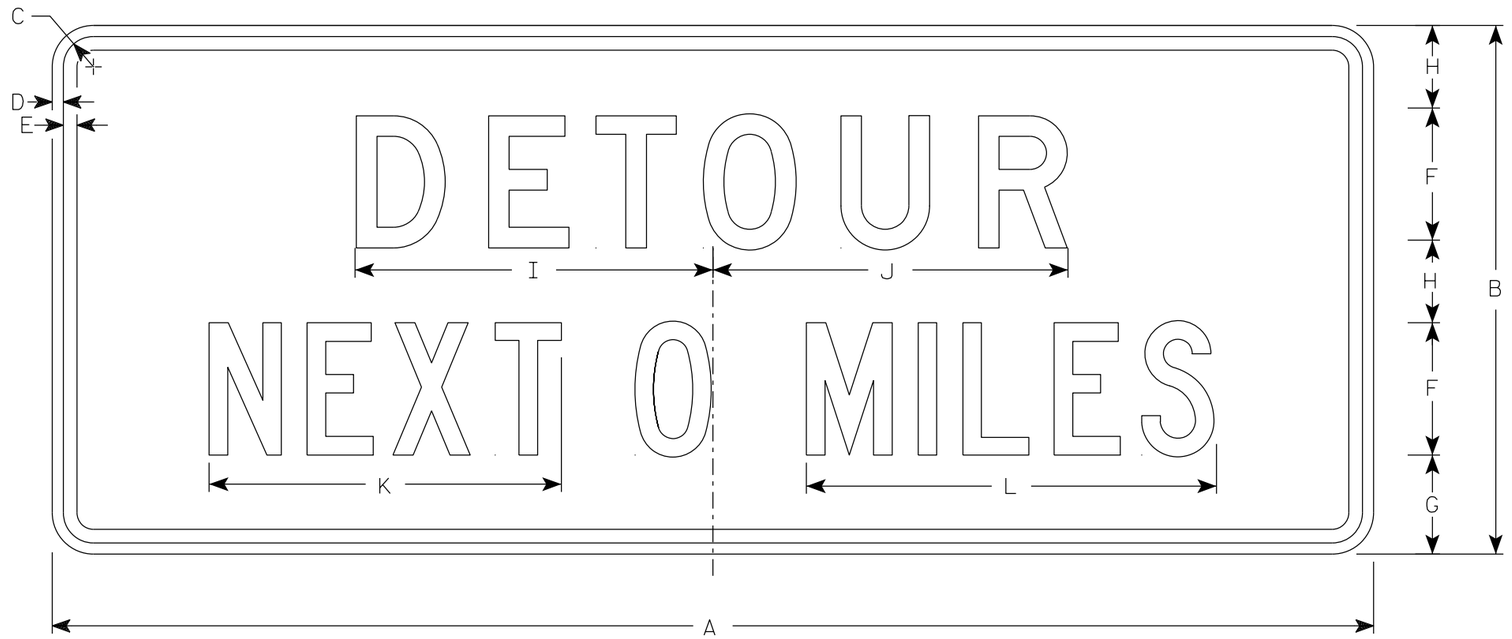
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-2A.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G202A.dgn PLOT DATE : 26-JAN 2023 8:27 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



G20-51

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - Line 1 is D and Line 2 is 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 7/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10.0
2M	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10.0
3	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10.0
4	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10.0
5	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10.0

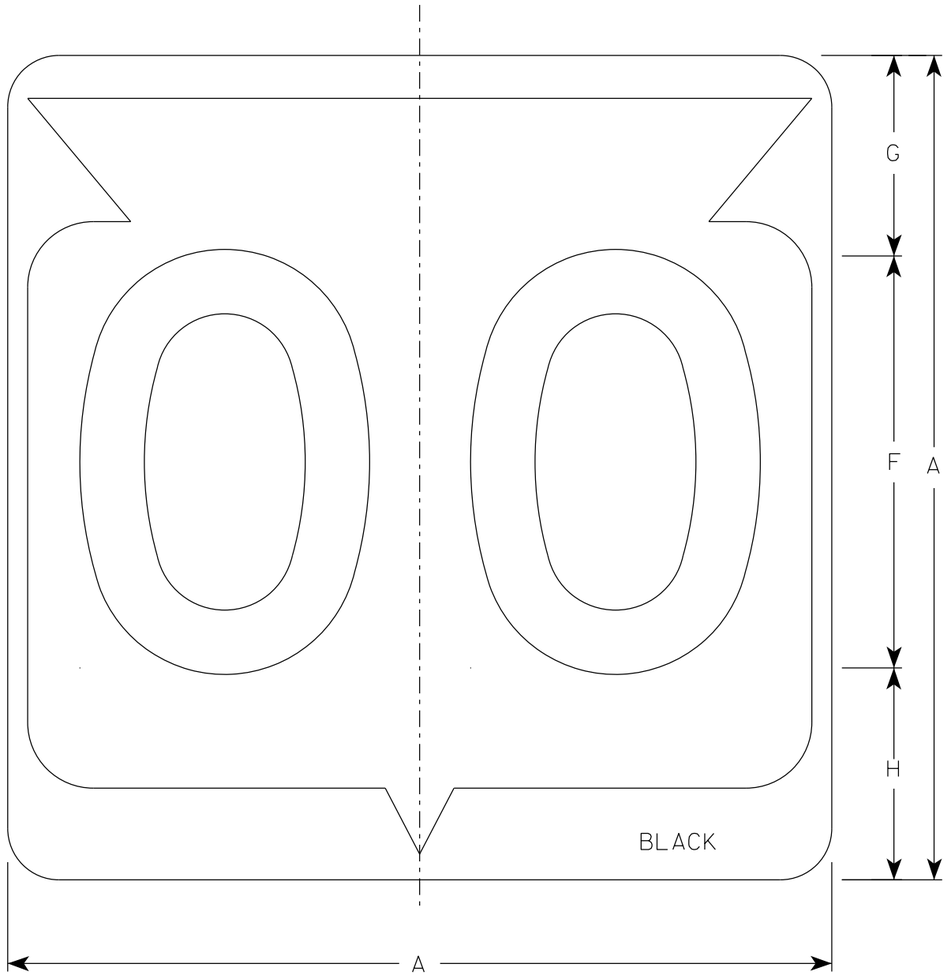
STANDARD SIGN
G20-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-51.3

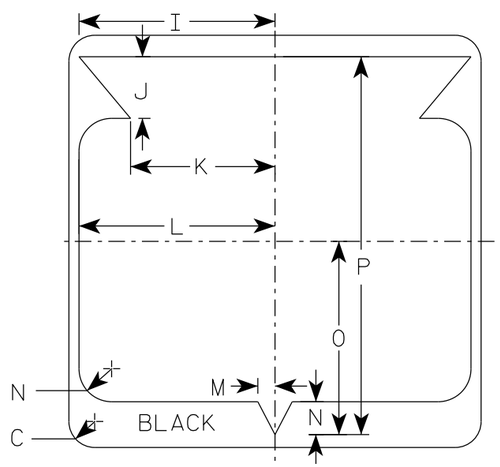
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 127	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs 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																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
2M	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

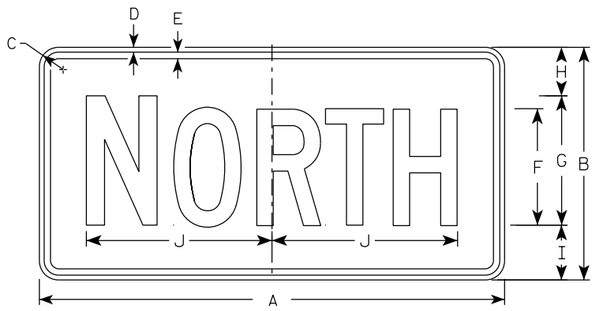
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

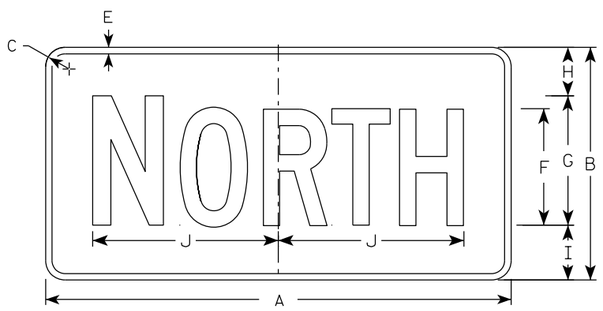
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

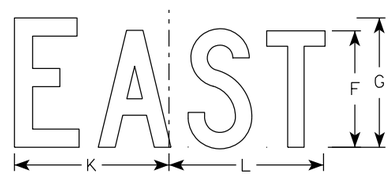
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 128	E



M3-1
MM3-1
MP3-1

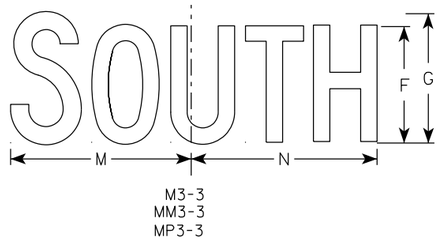


MB3-1
MK3-1
MN3-1

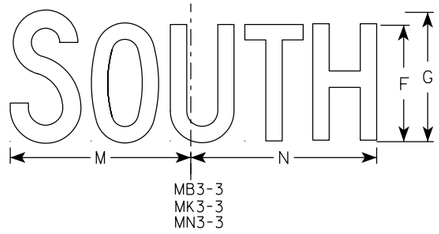


M3-2
MM3-2
MP3-2

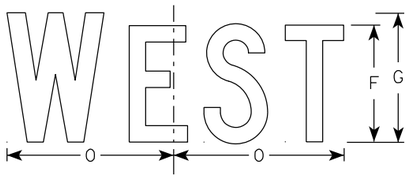
MB3-2
MK3-2
MN3-2



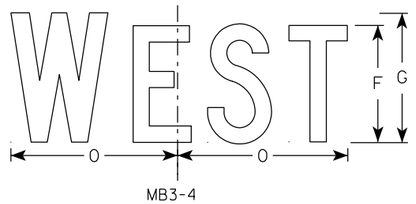
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
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. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

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	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2M	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

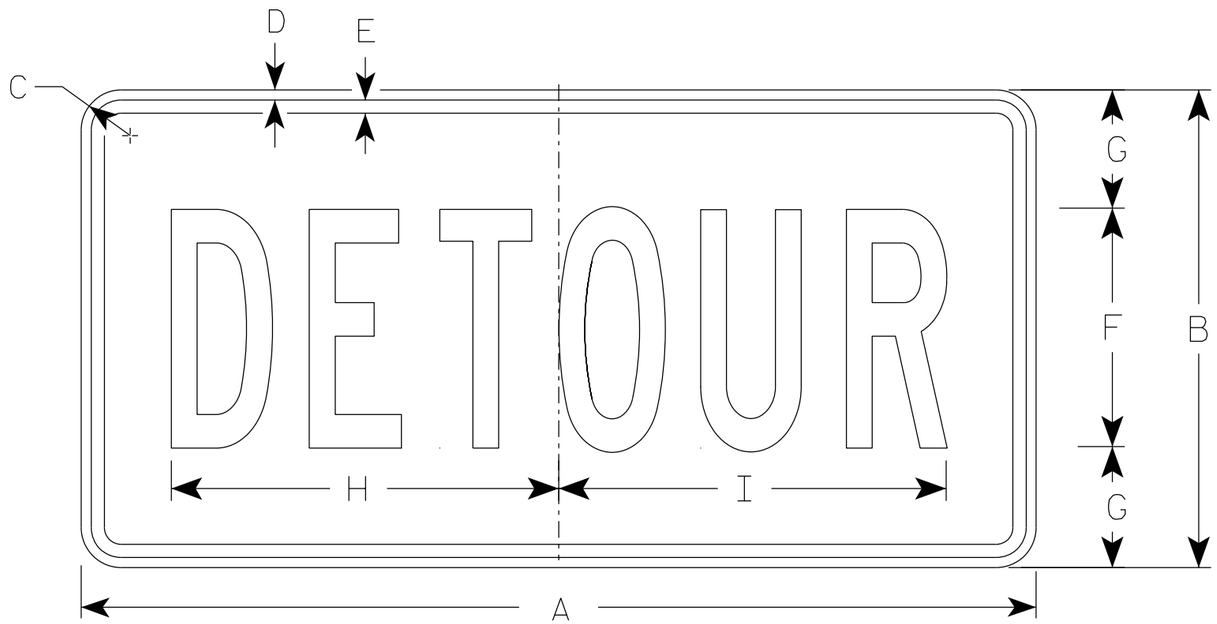
STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 129	E



M4-8

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
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																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

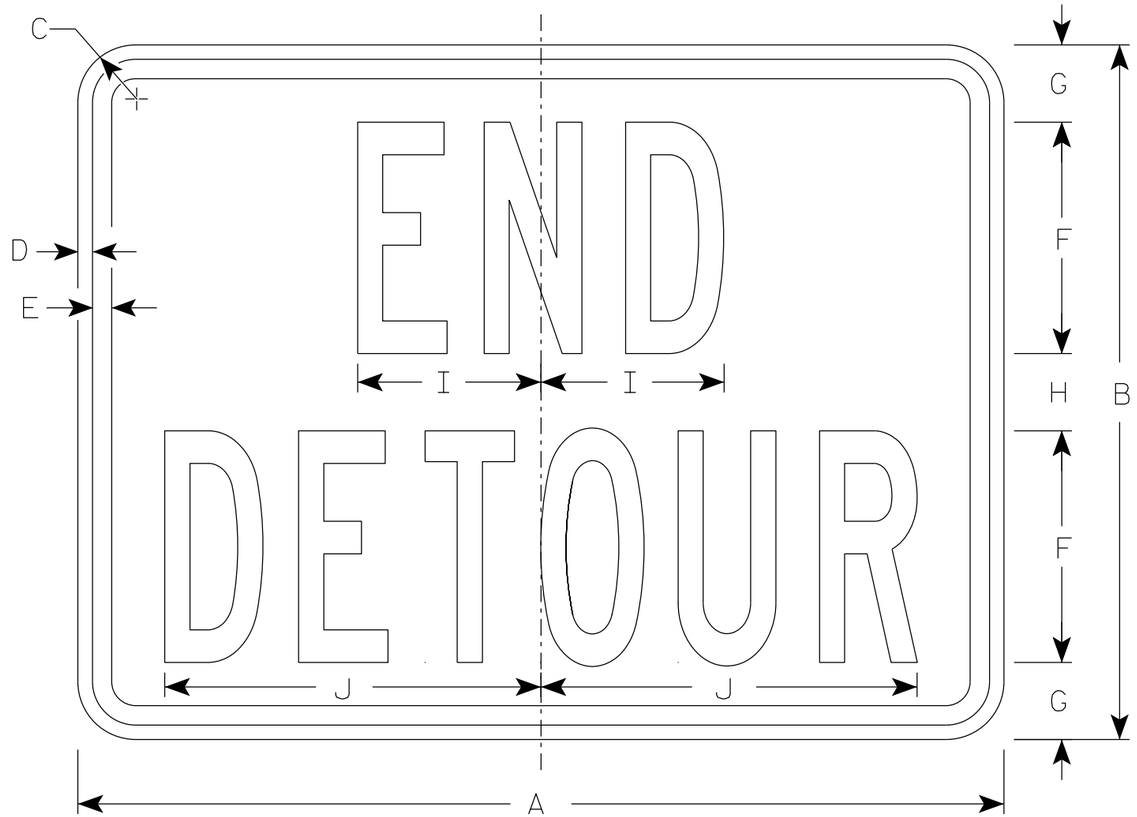
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 130	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
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																											
2	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

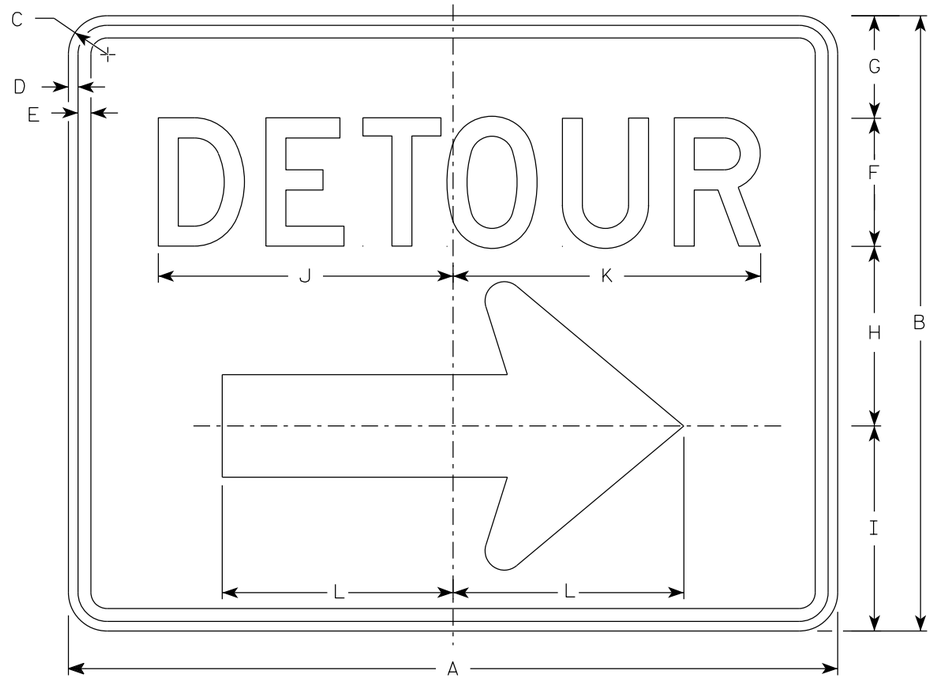
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 131 | E

7

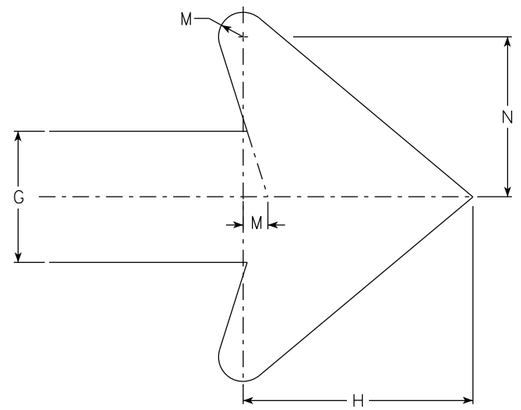
7



M4-9R

NOTES

1. Sign is Type II - Type F Reflective
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.
4. M4-9L is the same as M4-9R 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 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

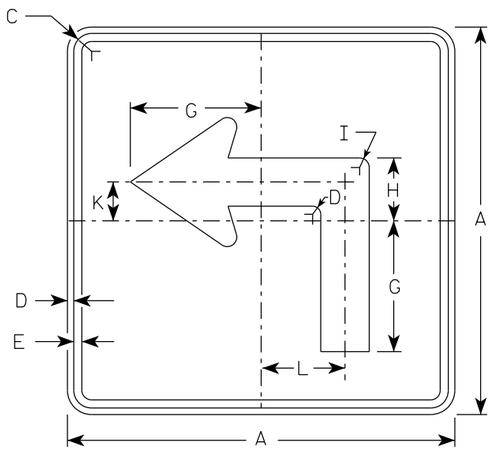
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

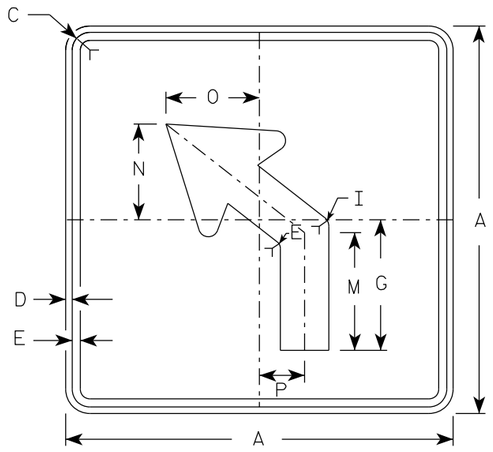
DATE 2/9/2023 PLATE NO. M4-9R.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

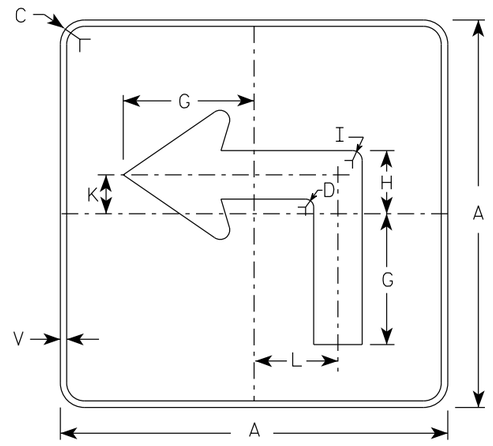
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49R.dgn PLOT DATE : 21-MARCH 2023 1:40 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



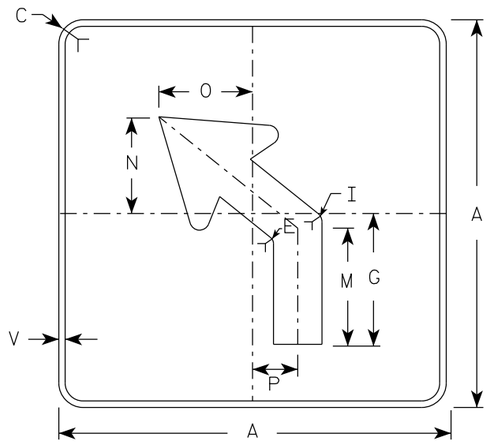
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

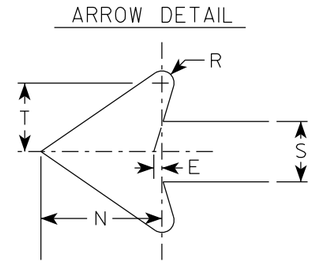


MB5-2L
MK5-2L
MN5-2L
MR5-2L

NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   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. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

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	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

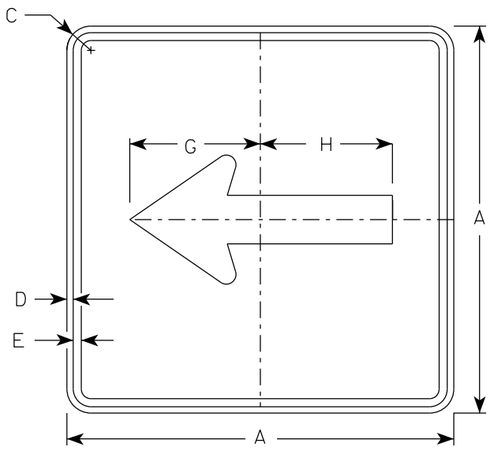
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

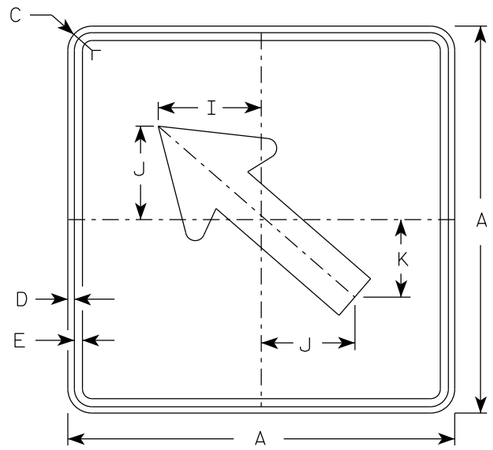
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

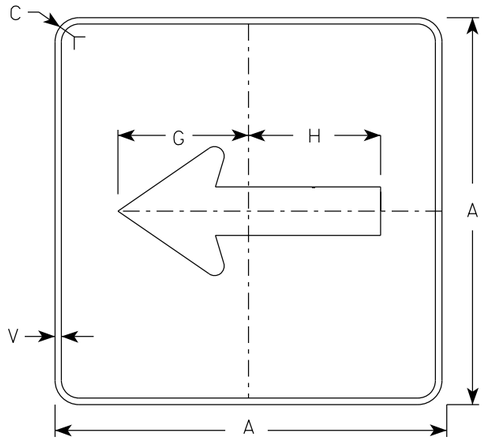
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 133 | E



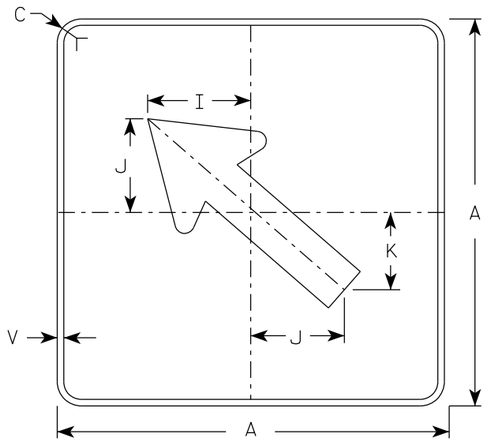
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

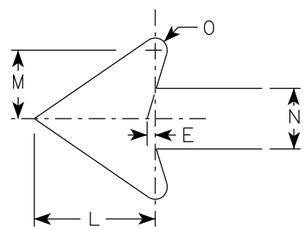


MB6-2
MK6-2
MN6-2
MR6-2

NOTES

1. Signs are Type II - Type H Reflective except as Shown
2. Color:
   Background - See note 4
   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. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow

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	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

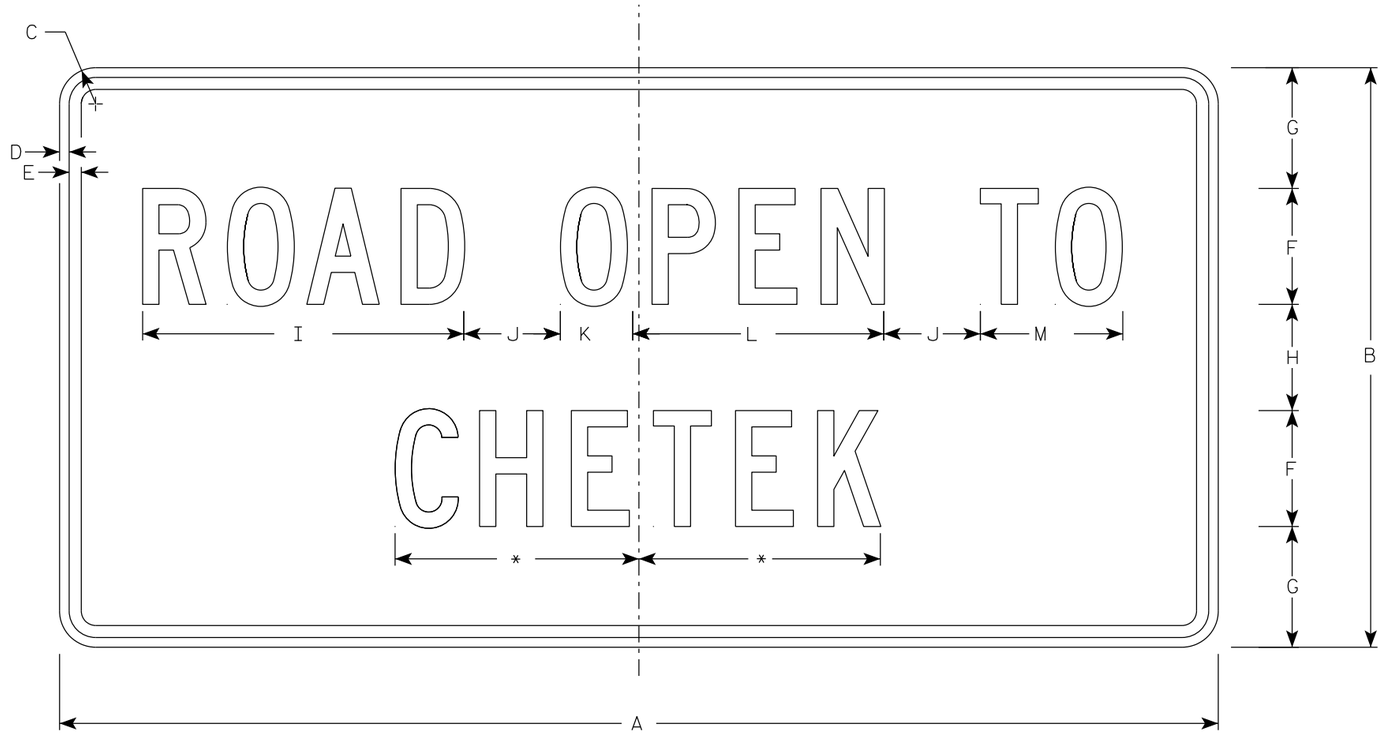
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 134 | E

7

7



R10-61

*See note 5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   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. Substitute appropriate message and optically 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	36	24	1 1/2	1/2	5/8	4	5 1/2	5	10 3/4	2	2 1/8	8 3/8	4 5/8														6.0
2S	60	30	1 7/8	1/2	5/8	6	6 1/4	5 1/2	16 5/8	5	3 3/4	13	7 3/8														12.5
2M	60	30	1 7/8	1/2	5/8	6	6 1/4	5 1/2	16 5/8	5	3 3/4	13	7 3/8														12.5
3																											
4																											
5																											

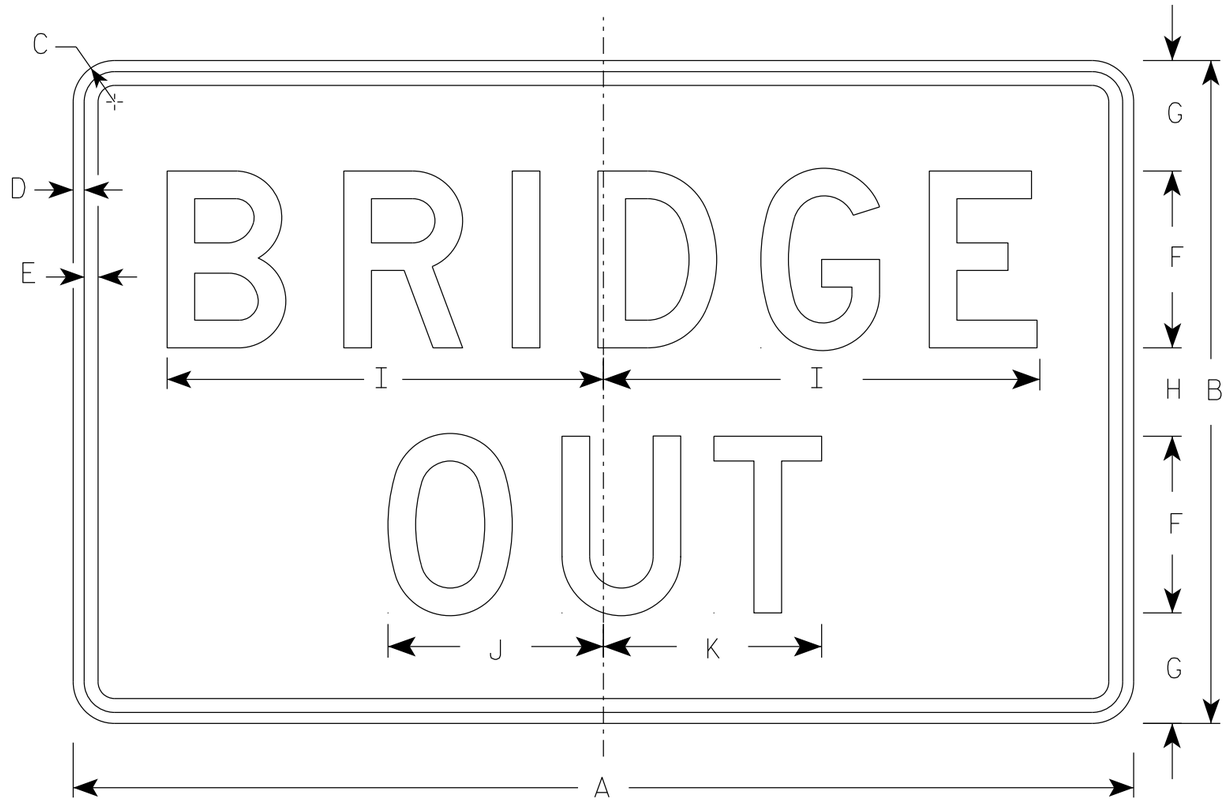
STANDARD SIGN
R10-61

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R10-61.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 135	E



R11-2B

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.

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 7/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0

STANDARD SIGN
R11-2B

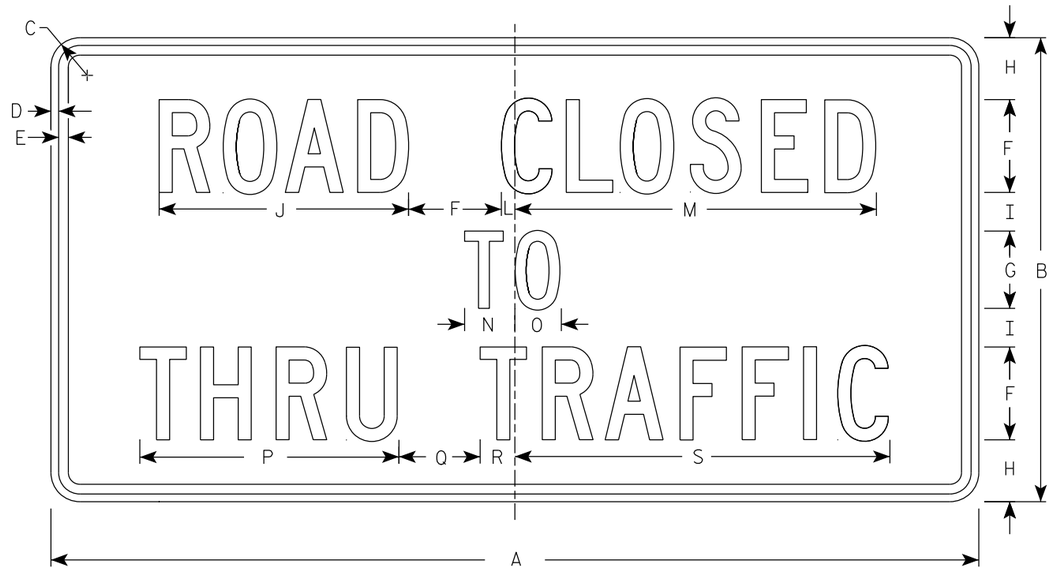
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-2B.3

PROJECT NO:

SHEET NO: 136 E



R11-4

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   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																											
2S	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

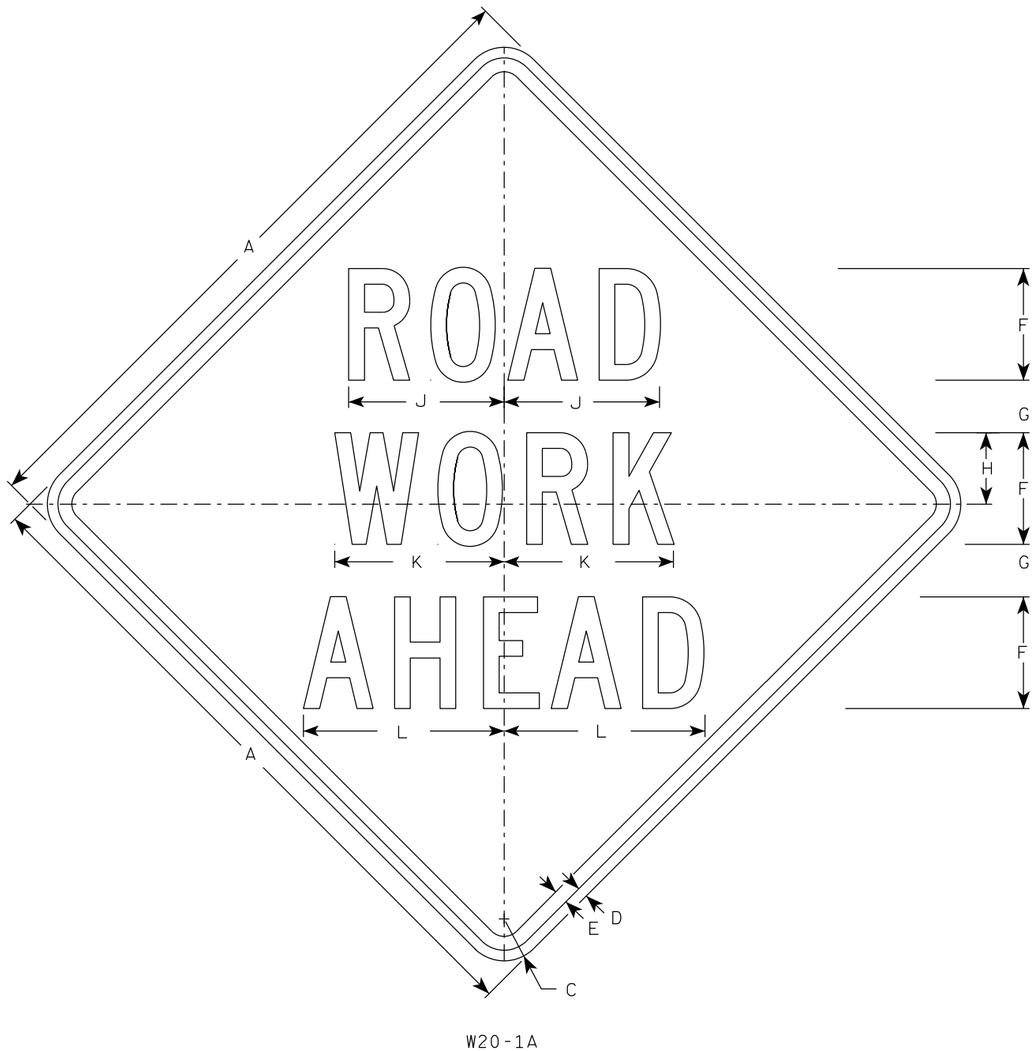
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

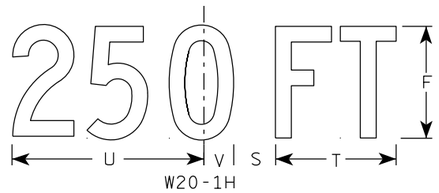
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

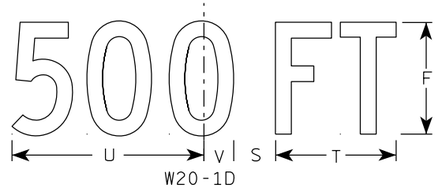
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 137	E



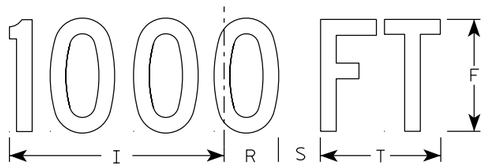
W20-1A



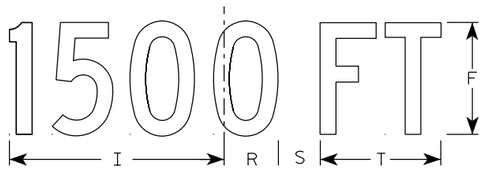
W20-1H



W20-1D



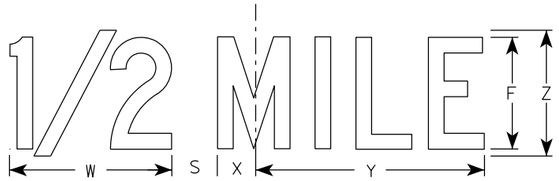
W20-1C



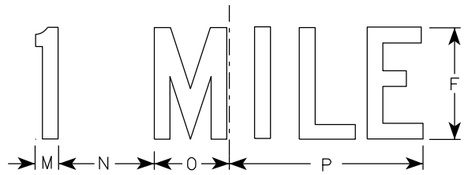
W20-1B

NOTES

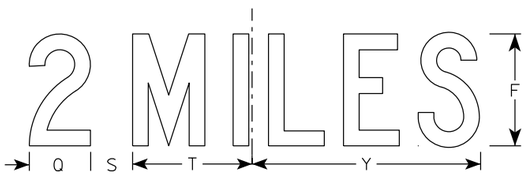
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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		2 1/4	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		3	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		3	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		3	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		3	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		3	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 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

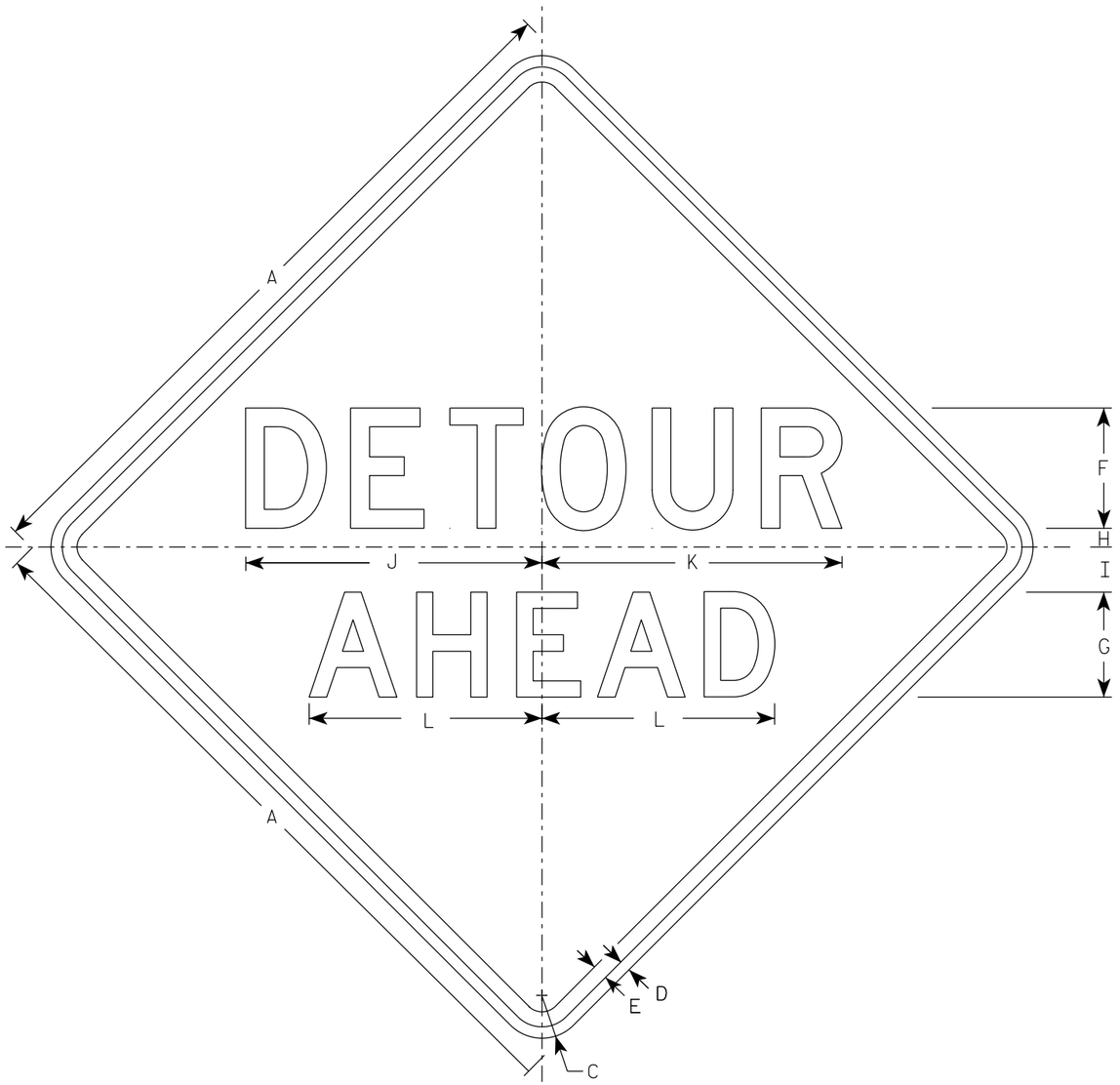
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 10-JAN 2024 11:16 PLOT BY : dotc4c

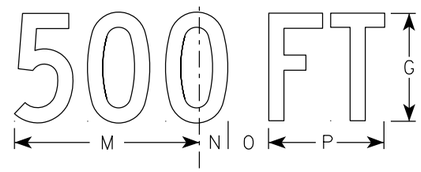
WISDOT/CADDS SHEET 42

7

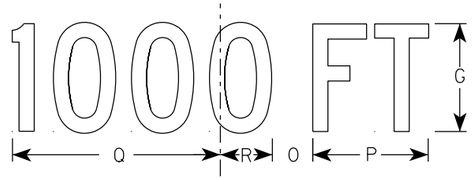
7



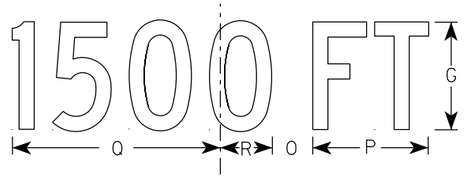
W20-2A



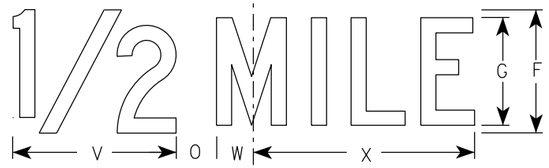
W20-2D



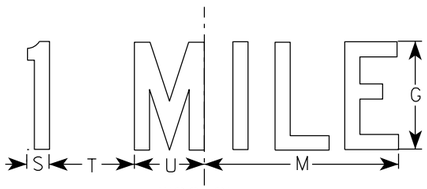
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
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. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

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		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

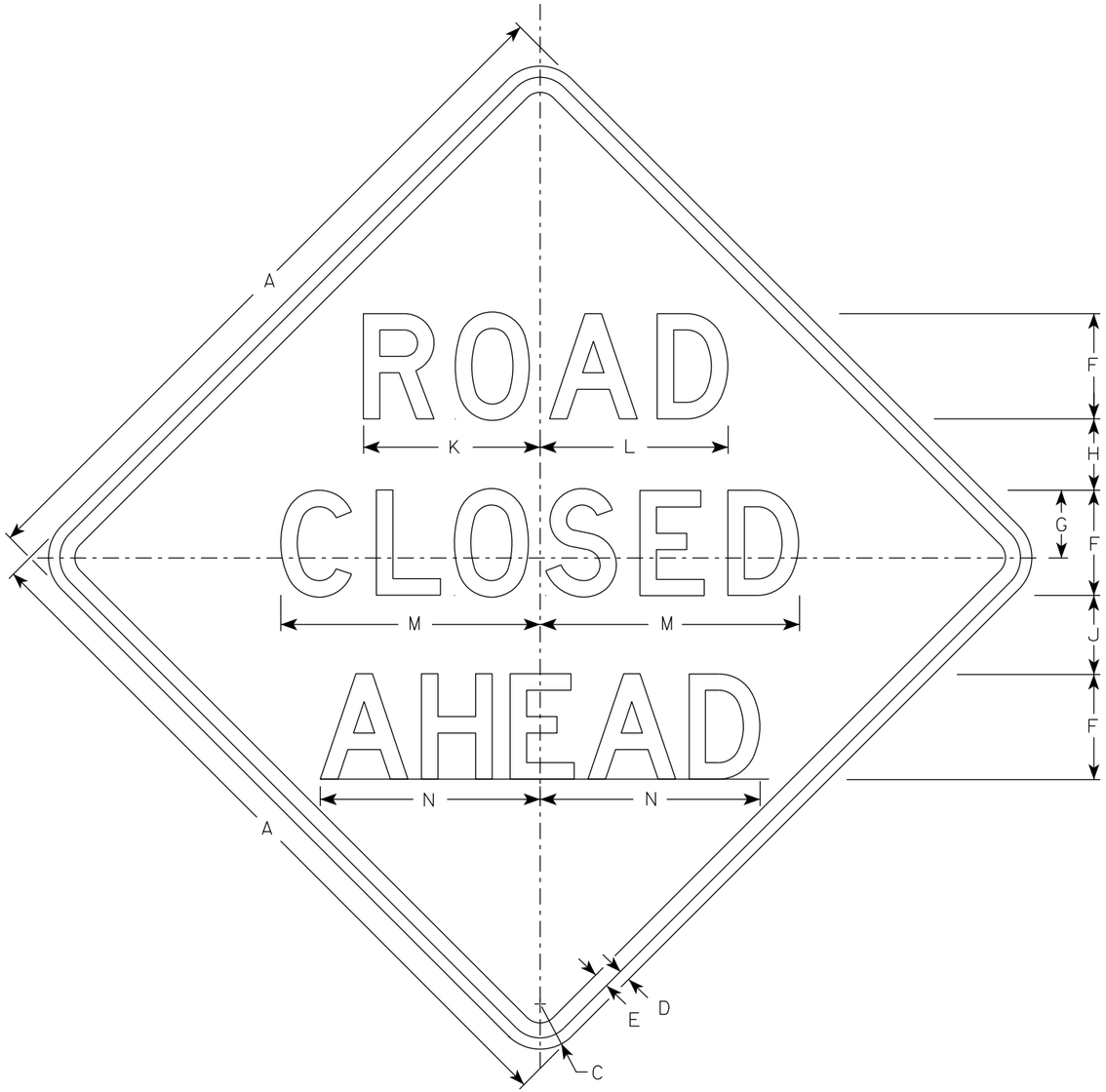
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

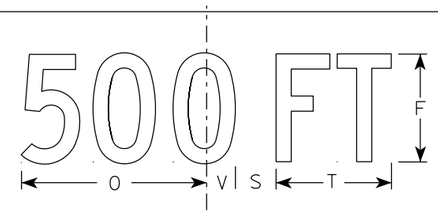
DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

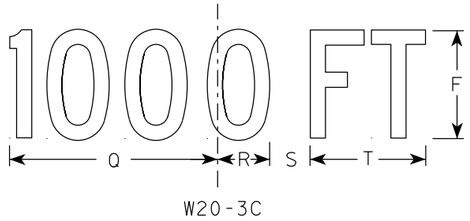
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



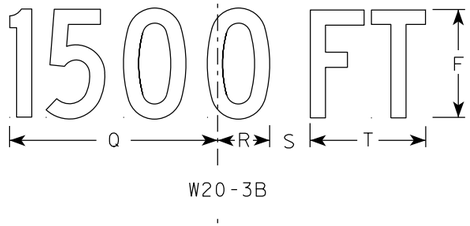
W20-3A



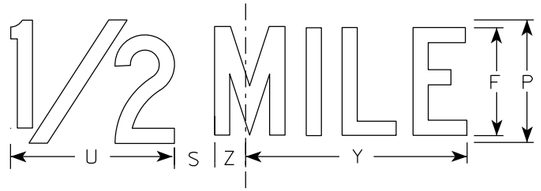
W20-3D



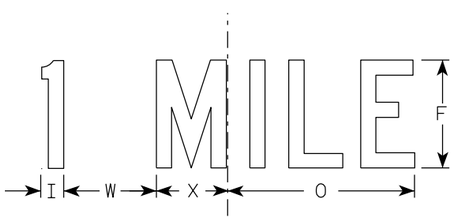
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective
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. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

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		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

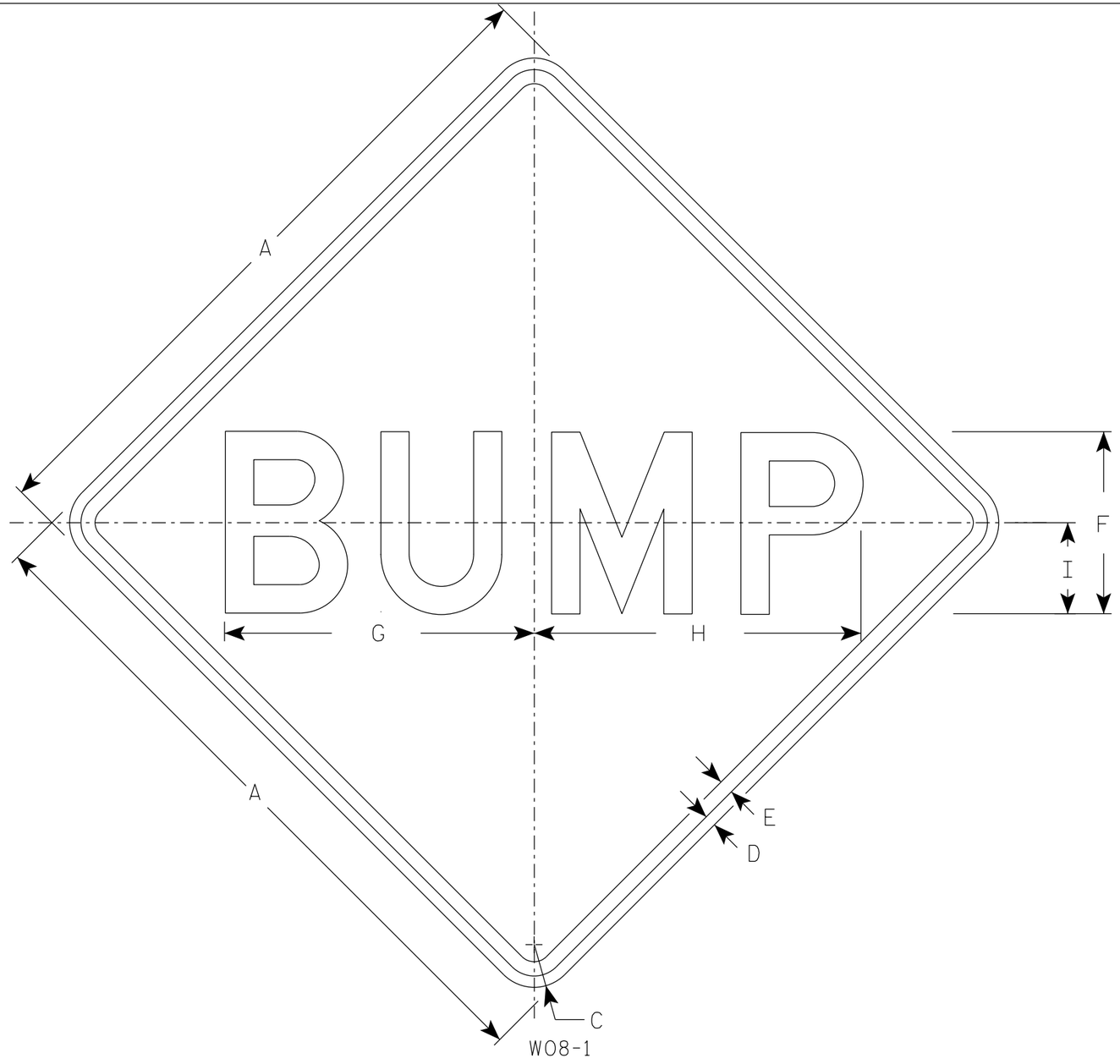
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN PLOT DATE : 10-JAN 2024 12:02 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type F Reflective
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		2 1/4	5/8	3/4	10	16 7/8	17 7/8	5																		9.0
2S	48		3	3/4	1	12	20 3/8	21 5/8	6																		16.0
2M	48		3	3/4	1	12	20 3/8	21 5/8	6																		16.0
3	48		3	3/4	1	12	20 3/8	21 5/8	6																		16.0
4	48		3	3/4	1	12	20 3/8	21 5/8	6																		16.0
5	48		3	3/4	1	12	20 3/8	21 5/8	6																		16.0

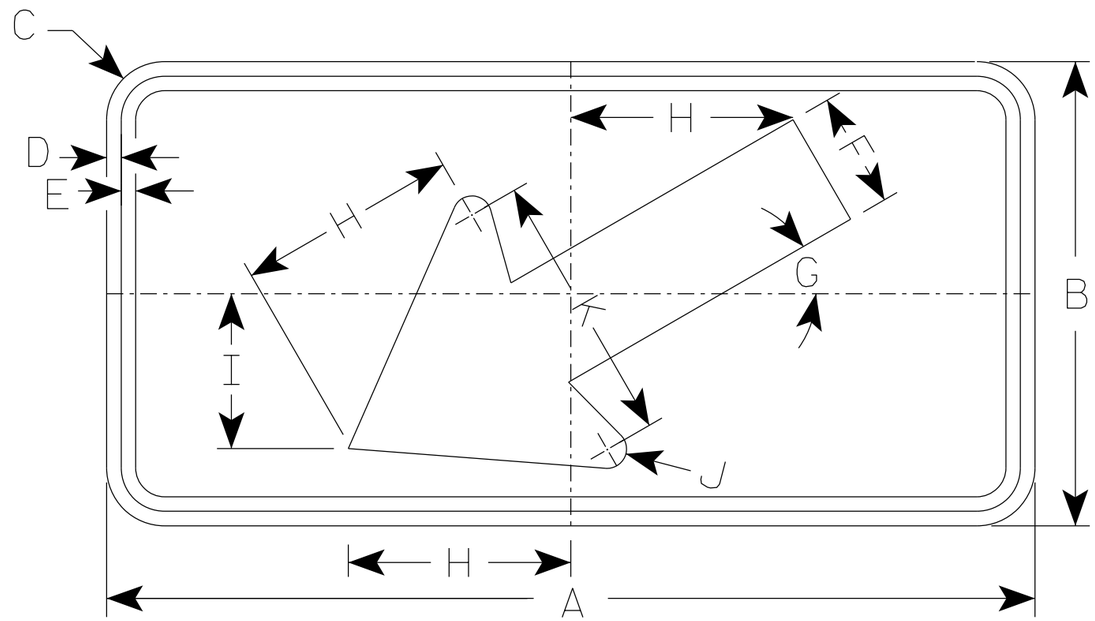
STANDARD SIGN
W08-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/30/2024 PLATE NO. W08-1.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 141 | E



W016-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded but corners shall be rounded when base material is metal.
4. W016-7R is the same as W016-L 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	30	18	1 1/2	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2S	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
2M	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
3	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
4	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0

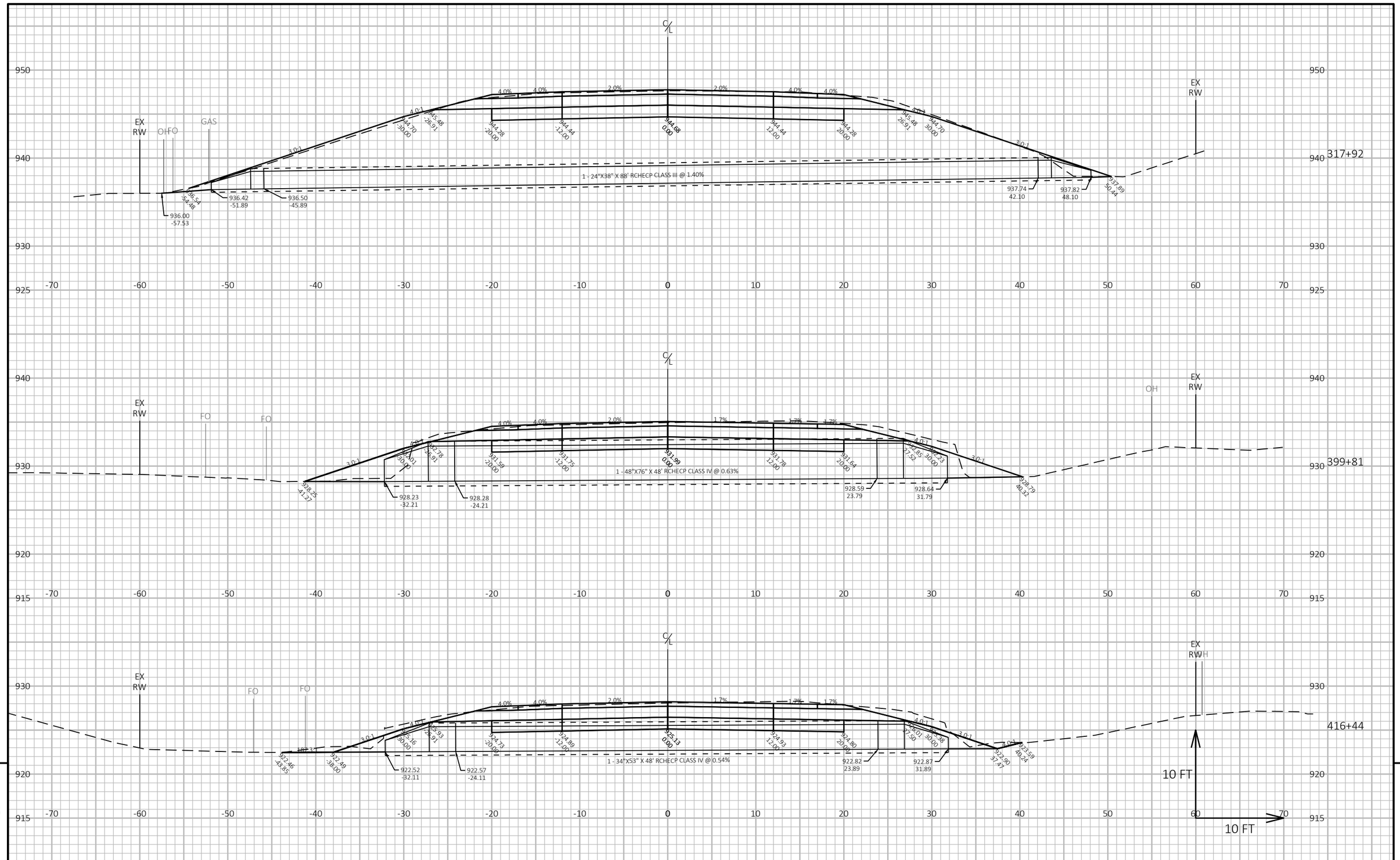
STANDARD SIGN
W016-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W016-7.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 142	E



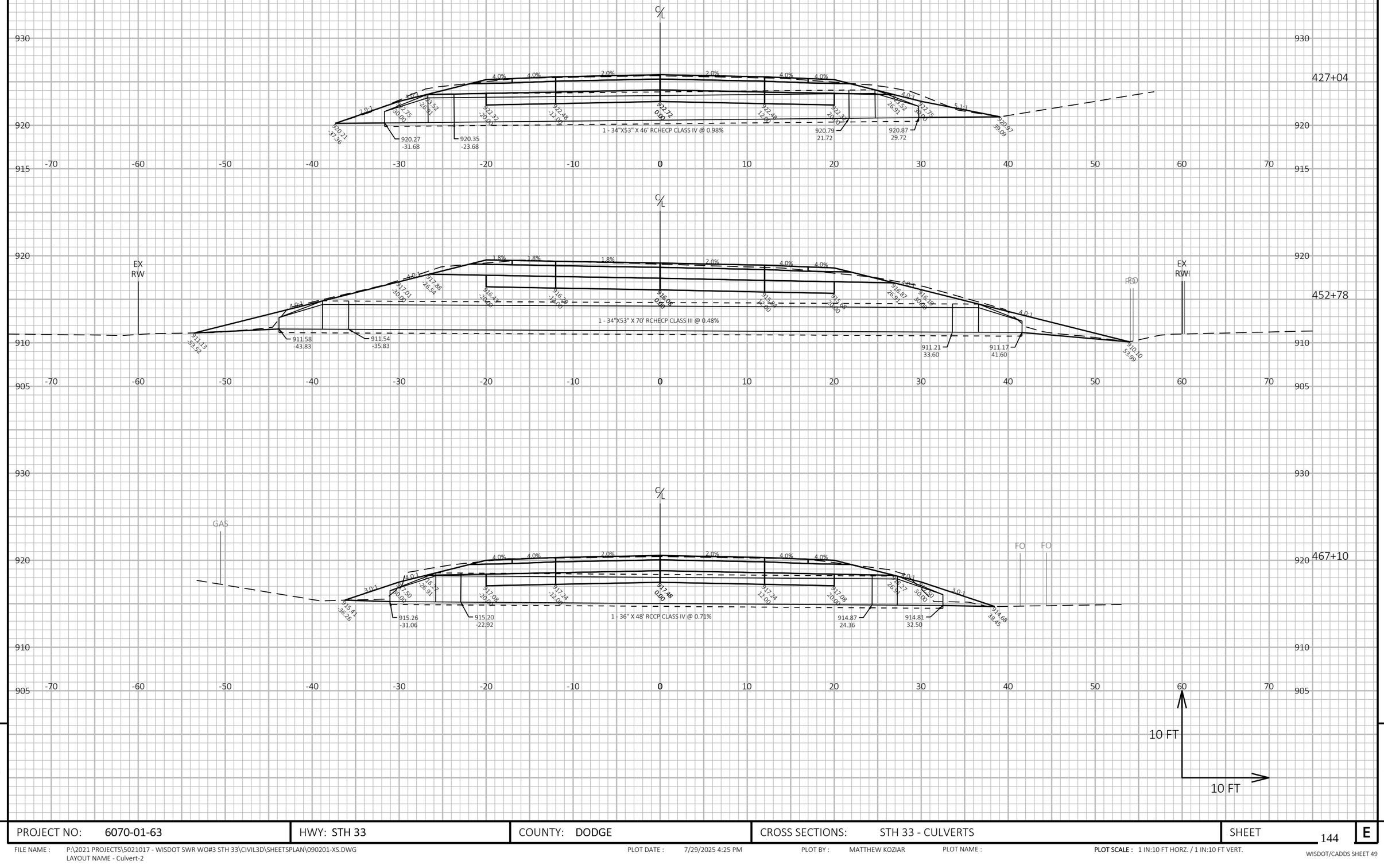
PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	CROSS SECTIONS: STH 33 - CULVERTS	SHEET 143	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - Culvert-1

PLOT DATE : 11/17/2025 1:33 PM PLOT BY : BRETT PETERSON PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

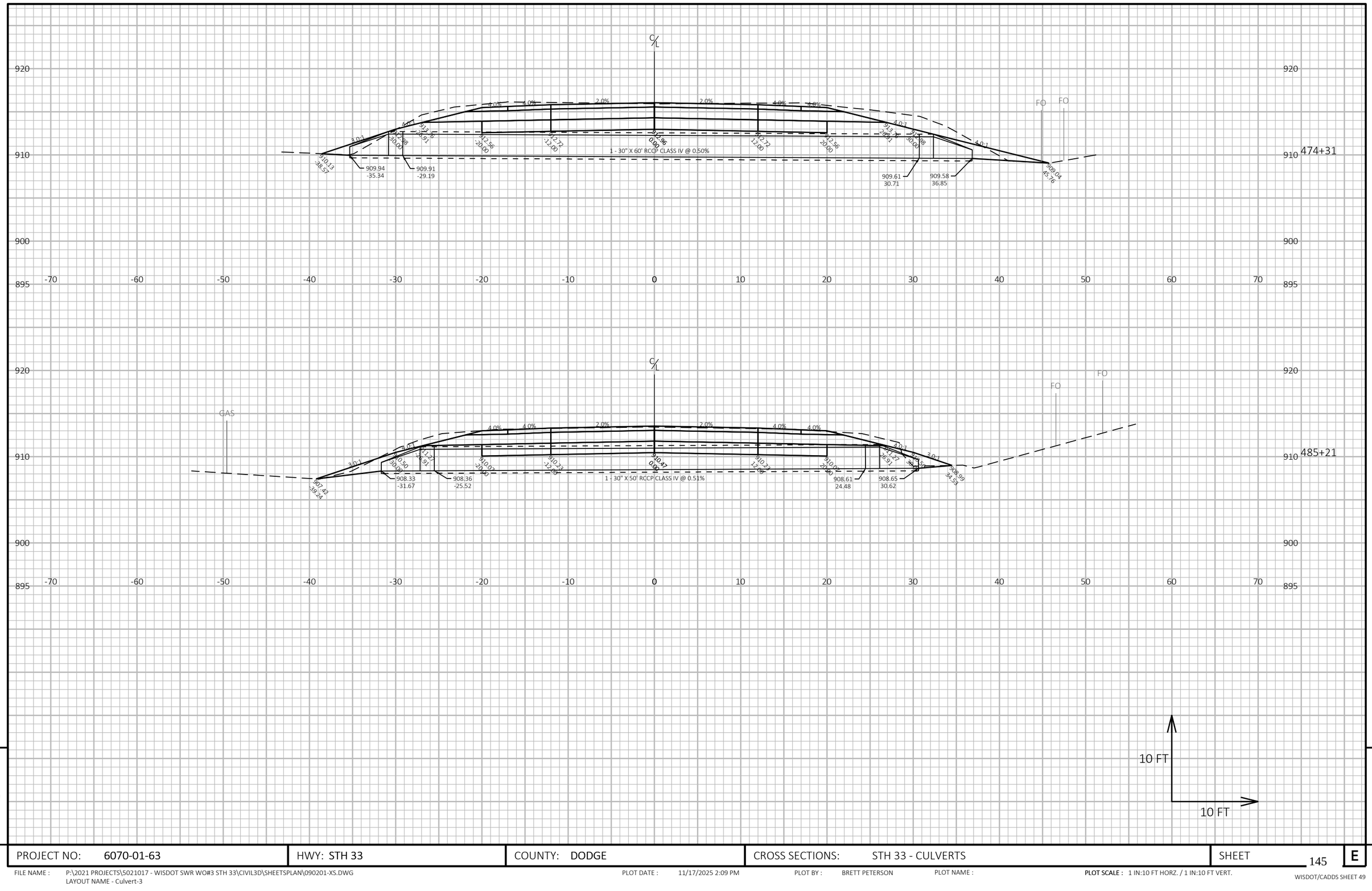
WISDOT/CADDS SHEET 49



PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	CROSS SECTIONS: STH 33 - CULVERTS	SHEET 144	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - Culvert-2

PLOT DATE : 7/29/2025 4:25 PM PLOT BY : MATTHEW KOZIAR PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



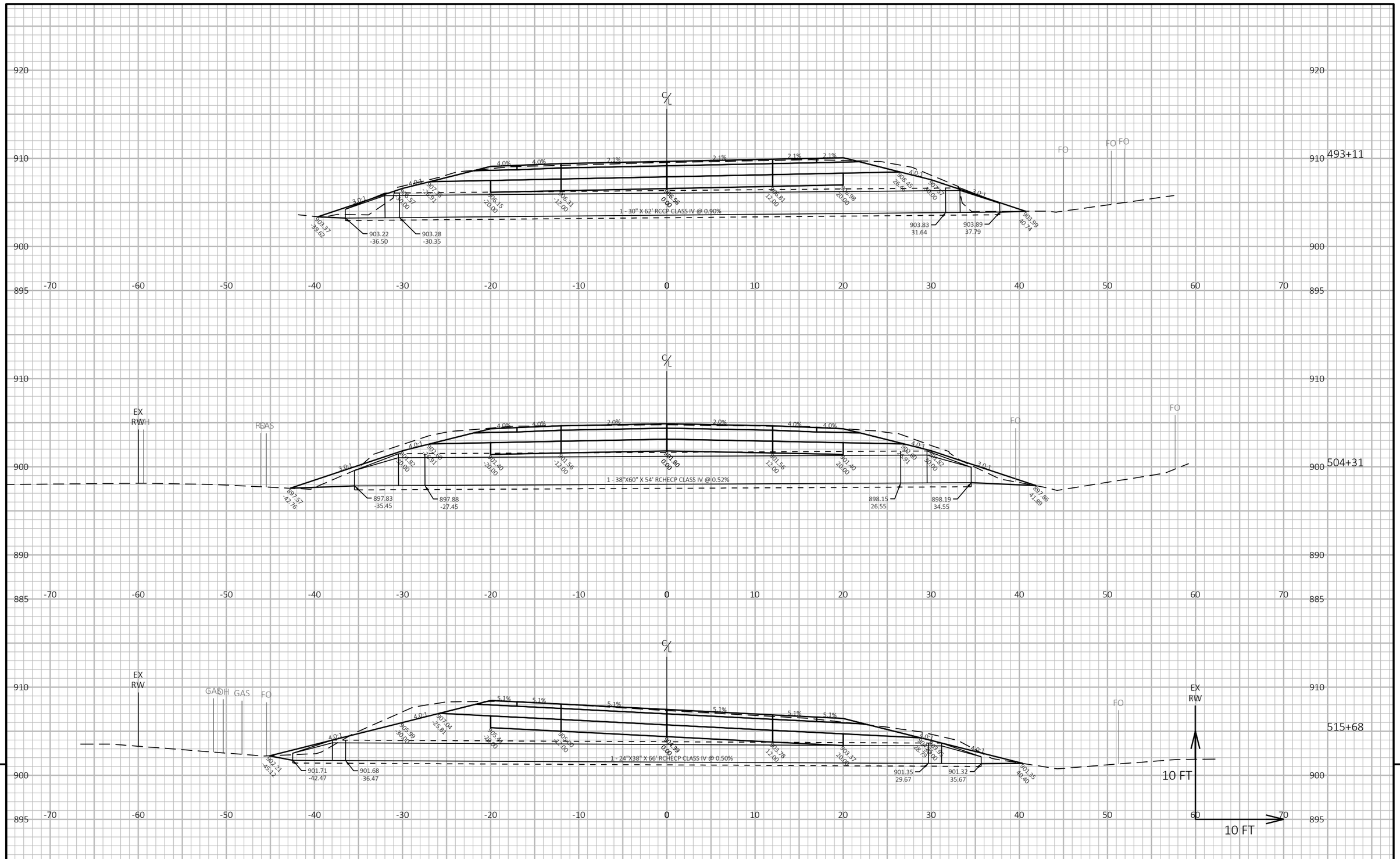
PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	CROSS SECTIONS: STH 33 - CULVERTS	SHEET 145	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - Culvert-3

PLOT DATE : 11/17/2025 2:09 PM PLOT BY : BRETT PETERSON PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

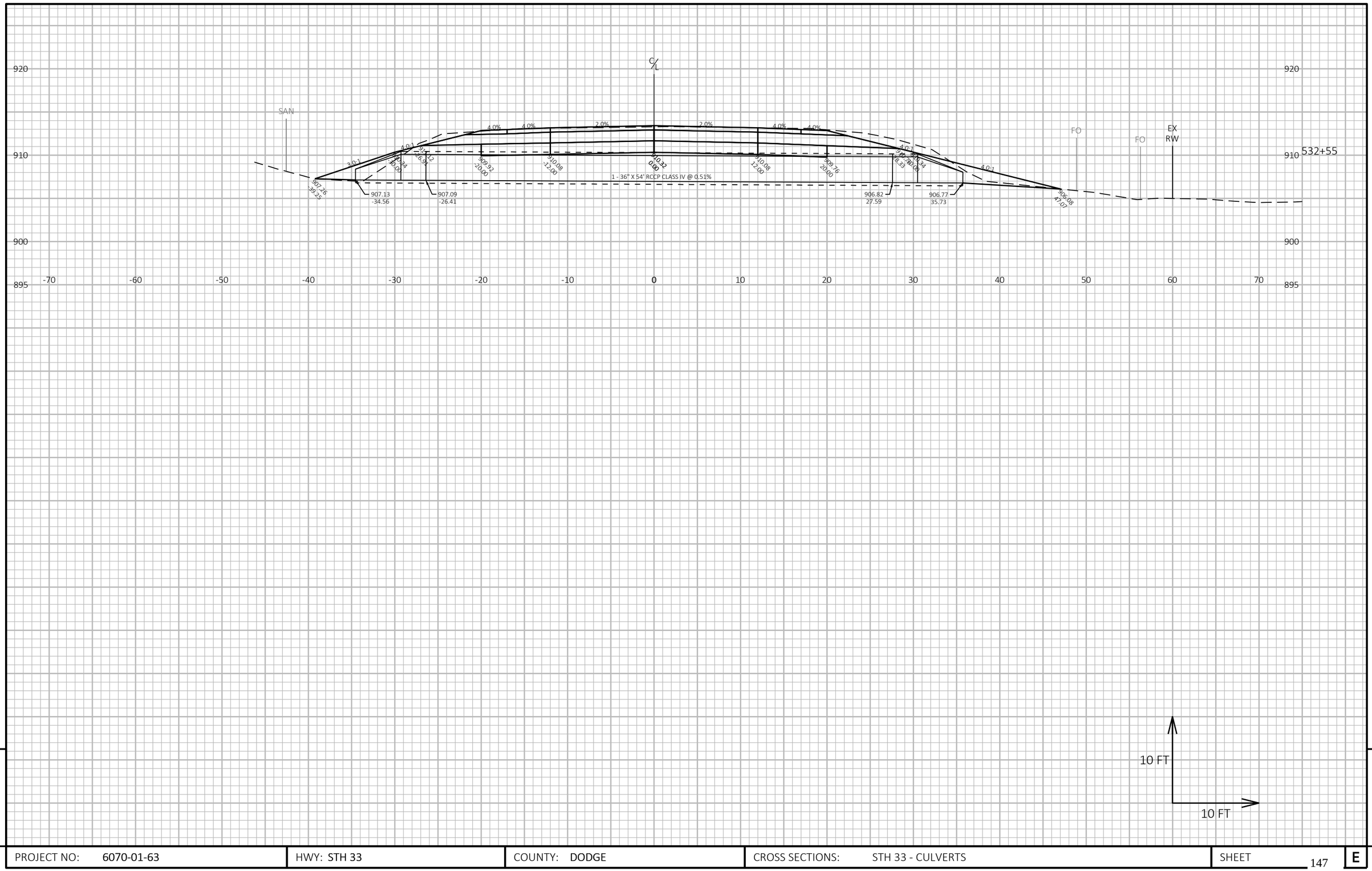


PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	CROSS SECTIONS: STH 33 - CULVERTS	SHEET 146	E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - Culvert-4

PLOT DATE : 11/17/2025 1:37 PM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 6070-01-63	HWY: STH 33	COUNTY: DODGE	CROSS SECTIONS: STH 33 - CULVERTS	SHEET 147 E

FILE NAME : P:\2021 PROJECTS\5021017 - WISDOT SWR WO#3 STH 33\CIVIL3D\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - Culvert-5

PLOT DATE : 11/17/2025 1:39 PM PLOT BY : BRETT PETERSON PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov