WKE Mar 14, 2023

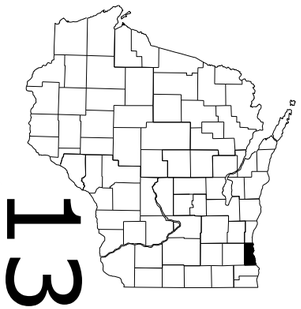
PROJECT ID: 2525-03-71, 2525-03-72
WITH: N/A

COUNTY: MILWAUKEE

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 = 362



13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

W BELOIT ROAD
S 60TH STREET TO LINCOLN AVENUE
LOCAL STREET
MILWAUKEE COUNTY

STATE PROJECT NUMBER
2525-03-71

C WEST ALLIS W BELOIT ROAD
S 60TH STREET TO LINCOLN AVENUE
LOCAL STREET
MILWAUKEE COUNTY

STATE PROJECT NUMBER
2525-03-72

(SANITARY SEWER & WATER MAIN)

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2525-03-71	WISC 2023279	1
2525-03-72		

ACCEPTED FOR
CITY of WEST ALLIS
10/17/2022 (Date)
Traci Gengler
Principal Engineer
(Signature & Title of Official)

ORIGINAL PLANS PREPARED BY
GRAEF
WISCONSIN
STEVE L. HUBERTY 32396 WAUWATOSA, WI
PROFESSIONAL ENGINEER
10/13/22 (Date) (Signature)

CITY OF WEST ALLIS
(STORM SEWER, SANITARY SEWER & WATER MAIN PLANS)
WISCONSIN
HEATH BROZOVICH 45339 OCONOMOWOC, WI
PROFESSIONAL ENGINEER
10/13/2022 (Date) (Signature)

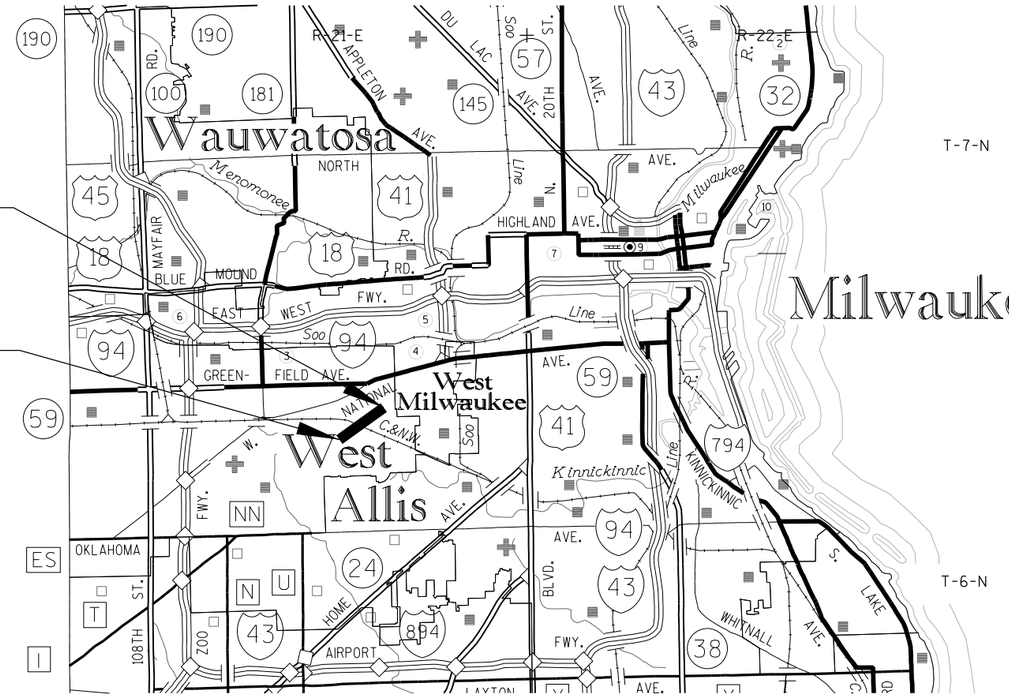
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	GRAEF
Designer	GRAEF
Project Manager	MICHAEL BAIRD
Regional Examiner	
Regional Supervisor	BRIAN BOOTHBY
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 10/17/2022 Michael J. Baird (Signature)

E



END PROJECT
STA. 49+45.00

BEGIN PROJECT
STA. 17+33.24
N = 371,986.14
E = 2,535,921.03

LAYOUT
SCALE 0 1.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.608 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), SOUTH' ZONE, NAD27, GROUND. US SURVEY FOOT

VERTICAL DATUM - CITY OF WEST ALLIS. (NGVD29 - 580.56)

DESIGN DESIGNATION

A.A.D.T. 2023	=	12,200
A.A.D.T. 2043	=	13,500
D.H.V.	=	1,350
D.D.	=	61/39
T.	=	6.9%
DESIGN SPEED	=	35 MPH
ESALS	=	1,300,000

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE (PL + 58.1)
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- 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

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS INDICATED FOR REMOVAL BY THE ENGINEER.

THE EXACT LOCATION OF PRIVATE ENTRANCES IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM THE ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES OR FROM GRUBBING OF TREES OR STUMPS SHALL BE BACKFILLED WITH GRANULAR BACKFILL GRADE 1. BACKFILL GRANULAR MATERIAL IS INCIDENTAL TO THE REMOVAL ITEM.

THE LOCATION OF KNOWN EXISTING UTILITIES IN THE VICINITY OF THE PROJECT ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITIES IN THE AREA THAT ARE NOT SHOWN.

HMA PAVEMENT WHERE INDICATED ON THE PLANS, SHALL CONSIST OF LAYERS AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.

2" DEPTH - 2" OF HMA PAVEMENT 4 LT 58-28 S AS THE UPPER LAYER

6" DEPTH - 2" OF HMA PAVEMENT 4 LT 58-28 S AS THE UPPER LAYER
4" OF HMA PAVEMENT 3 LT 58-28 S AS THE LOWER LAYER

ALL EROSION CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.

SILT FENCE SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

ASPHALT AND CONCRETE DRIVEWAYS SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

INLET PROTECTION IS REQUIRED AT ALL INLETS AS PER DETAIL OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

CONCRETE JOINTS SHALL MATCH ABUTTING PAVEMENT AND CURB AND GUTTER JOINTS UNLESS OTHERWISE DESIGNATED BY THE ENGINEER.

ALL TIE OR DOWEL BARS INSERTED INTO A HOLE DRILLED IN THE EXISTING CONCRETE SHALL BE PAID FOR UNDER THE ITEM "DRILLED TIE BARS" AND "DRILLED DOWEL BARS." ALL OTHER TIE OR DOWEL BARS INCORPORATED INTO NEW POURED CONCRETE SHALL BE INCIDENTAL TO THE APPROPRIATE ITEM.

STANDARD ABBREVIATIONS

AEW	APRON END WALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSCP	CORRUGATED STEEL CULVERT PIPE
CSPA	CORRUGATED STEEL PIPE ARCH
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
	DELTA
DISCH	DISCHARGE
FE	FIELD ENTRANCE
HERCP	HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
NTS	NOT TO SCALE
PAVT	PAVEMENT
PB	PULL BOX
PC	POINT-OF-CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RAD	RADIUS
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
RCHESS	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL STORM SEWER
RCPSS	REINFORCED CONCRETE PIPE - STORM SEWER
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SIGNAL BASE
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TC	TOP OF CURB
TLE	TEMPORARY LIMITED EASEMENT

INDEX OF DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
PLAN DETAIL
CURB RAMP DETAIL
PAVEMENT GRADES
EROSION CONTROL
STORM SEWER
SANITARY SEWER
WATER MAIN
LANDSCAPE PLAN
PERMANENT SIGNING
STREET LIGHTING
PAVEMENT MARKING
TRAFFIC CONTROL AND CONSTRUCTION STAGING
DETOUR PLAN
ALIGNMENT

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

CITY OF WEST ALLIS

TRACI GENGLER
CITY OF WEST ALLIS ENGINEERING DEPARTMENT
7525 W GREENFIELD AVENUE
WEST ALLIS, WI 53214
(414) 302-8372
TGENGLER@WESTALLISWI.GOV

DESIGN CONTACT

STEVE HUBERTY
GRAEF
275 W WISCONSIN AVENUE, SUITE 300
MILWAUKEE, WI 53203
(414) 266-9090
STEVE.HUBERTY@GRAEF-USA.COM

DEPT OF NATURAL RESOURCES

KRISTINA BETZOLD
WISCONSIN DEPT. OF NATURAL RESOURCES
2300 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
(414) 507-4946
KRISTINA.BETZOLD@WISCONSIN.GOV

MILW COUNTY TRANSIT SYSTEM

DAVID LOCHER
MCTS (BUS STOPS)
1942 N. 17TH STREET
MILWAUKEE, WI 53205
(414) 343-1727
DLOCHER@MCTS.ORG

ARMOND SENSABAUGH
MCTS (DETOURS)
1942 N. 17TH STREET
MILWAUKEE, WI 53205
(414) 343-1728
ASENSABAUGH@MCTS.ORG

UTILITIES

AT&T WISCONSIN
ROBERT KOSANKE
435 S 95TH STREET
MILWAUKEE, WI 53214
(414) 257-0206; (414) 534-7746 (MOBILE)

LUMEN
BRAHIM GADDOUR
3235 INTERTECH DRIVE, SUITE 600
BROOKFIELD, WI 53045
(414) 908-1027; (414) 704-1026 (MOBILE)
BRAHIM.GADDOUR@LUMEN.COM

MMSD
MICKI KLAPPA-SULLIVAN
260 W SEEBOOTH STREET
MILWAUKEE, WI 53204
(414) 225-2178; (414) 416-5389 (MOBILE)
MKLAPPASULLIVAN@MMSD.COM

SPECTRUM
NEIL LONG
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
(414) 430-7189
WIS. ENGINEERING@CHARTER.COM
NEIL.LONG@CHARTER.COM

UTILITIES (CONT'D)

SPRINT
DAN HILLIARD
849 EARL STREET
ST PAUL, MN 55106
(612) 217-3526
DAN.J.HILLIARD@T-MOBILE.COM

VERIZON
RJ CICATELLO
15725 WEST RYERSON ROAD
NEW BERLIN, WI 53151
(262) 232-1323
RANDY.CICATELLO@VERIZON.COM

WE ENERGIES (ELECTRIC)
SEND ALL CORRESPONDENCE TO:

WE ENERGIES UTILITY COORDINATOR
500 S 116TH STREET
WEST ALLIS, WI 53214
(414) 221-2738
WE ENERGIES ELECTRICAL DISPATCH
1-800-662-4797
WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

CONSTRUCTION FIELD CONTACT:
ALEX DANTINNE
500 S 16TH STREET
WEST ALLIS, WI 53214
(920) 621-6903
ALEX.DANTINNE@WE-ENERGIES.COM

WE ENERGIES (GAS OPERATIONS)
SEND ALL CORRESPONDENCE TO:

WE ENERGIES UTILITY COORDINATOR
500 S 116TH STREET
WEST ALLIS, WI 53214
(414) 221-2738
WE ENERGIES GAS DISPATCH
1-800-261-5325
WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

CONSTRUCTION FIELD CONTACT:
BRADLEY ENGNATH
500 S 16TH STREET
WEST ALLIS, WI 53214
(414) 944-5767
BRADLEY.ENGNATH@WE-ENERGIES.COM

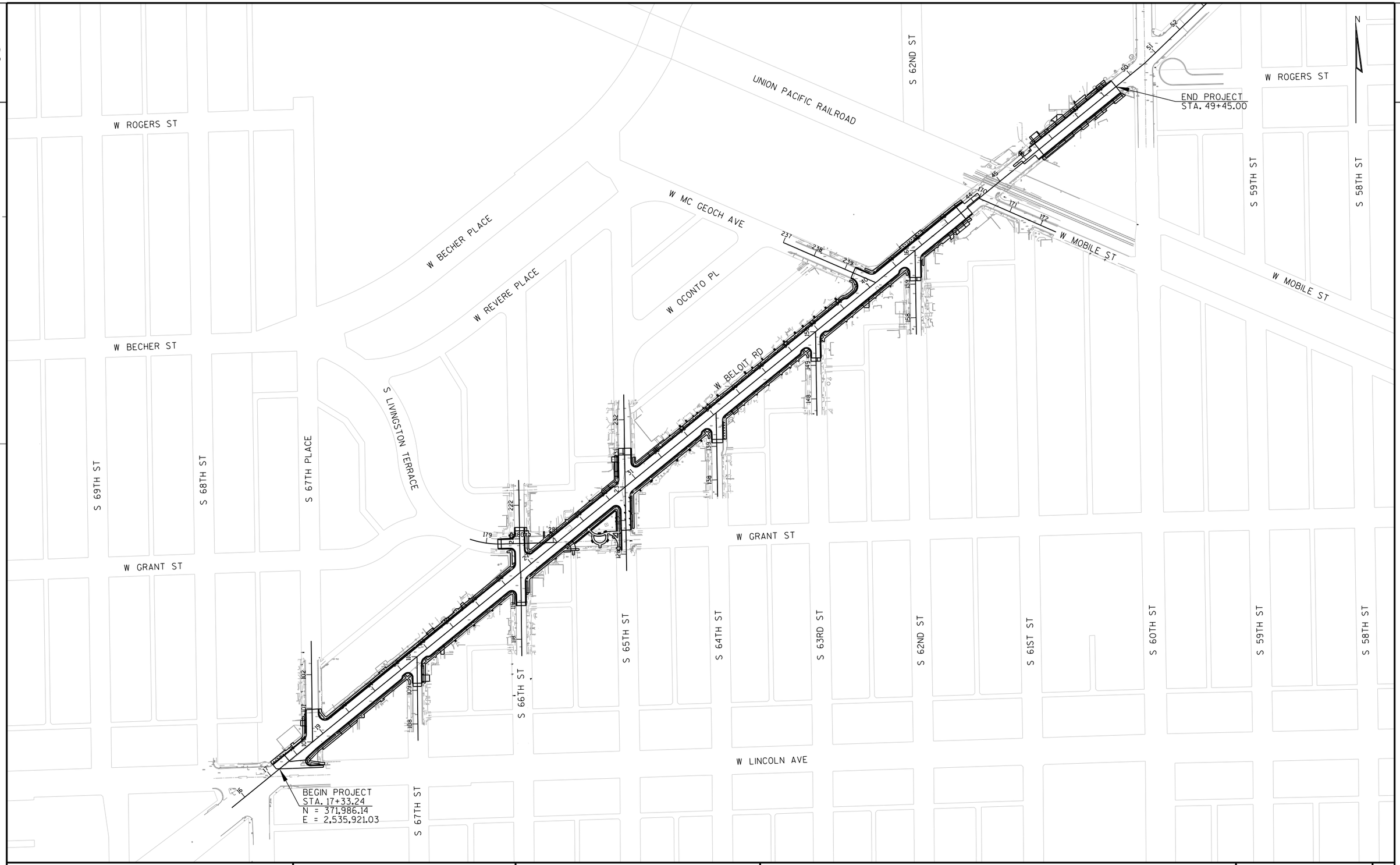
WEST ALLIS - SANITARY
TIM LAST
6300 MCGOECH AVENUE
WEST ALLIS, WI 53219
(414) 302-8815
TLAST@WESTALLIS.GOV

WEST ALLIS - WATER
MIKE BROFKA
6300 MCGOECH AVENUE
WEST ALLIS, WI 53219
(414) 302-8827; MOBILE (414) 312-0459
MBROFKA@WESTALLIS.GOV

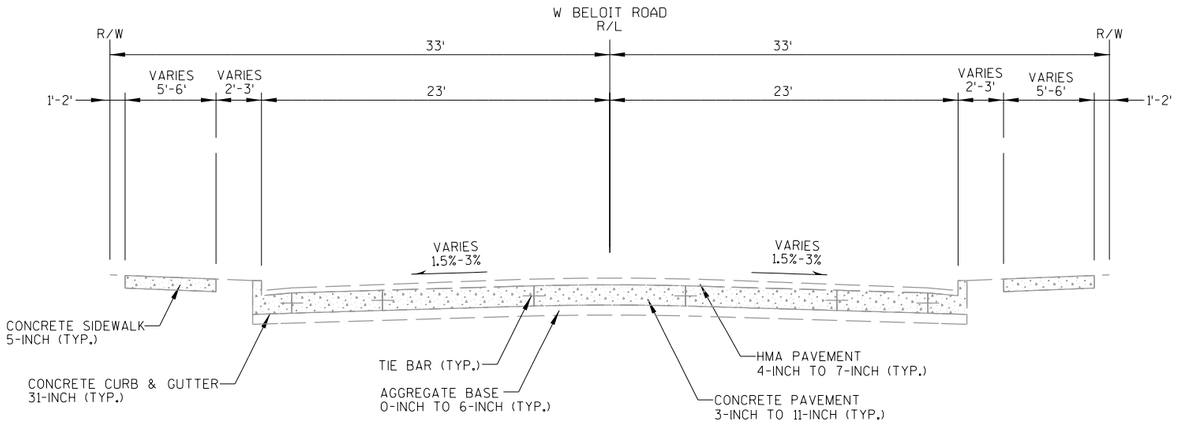
WEST ALLIS - WEST MILWAUKEE SCHOOL DISTRICT
STEVE EICHMAN
1205 S 70TH STREET
WEST ALLIS, WI 53214
(650) 762-4716

OTHER CONTACTS

WEST ALLIS - STREET LIGHTING
DON MOLLESON
6300 MCGOECH AVENUE
WEST ALLIS, WI 53219
(414) 302-8873; MOBILE (414) 239-4751
DMOLLESON@WESTALLIS.GOV

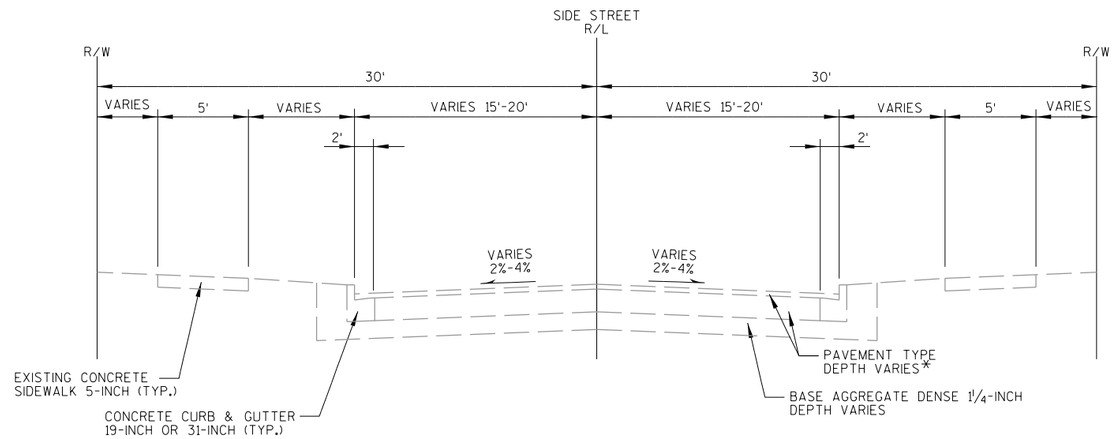


PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 3	E



TYPICAL EXISTING SECTION

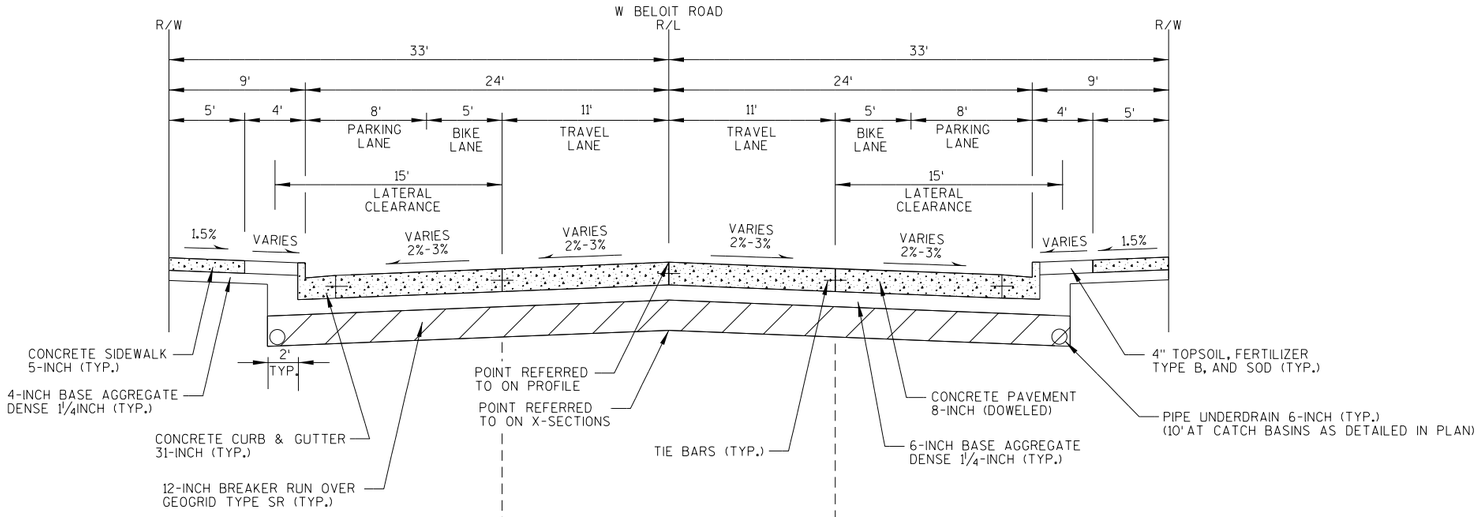
STA 17+33 TO STA 49+45

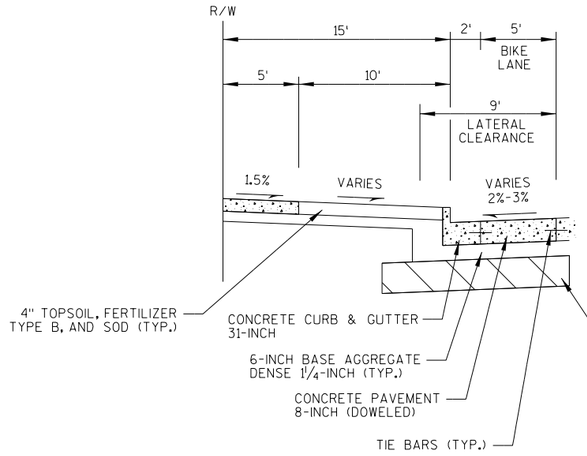


TYPICAL EXISTING SECTION
SIDEROADS

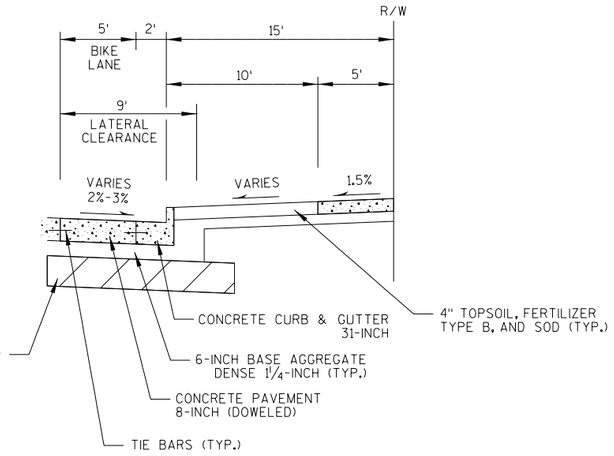
SIDE STREET	PAVEMENT TYPE *
S 67TH PLACE	CONCRETE
S 67TH STREET	ASPHALT ON CONCRETE
S 66TH STREET	ASPHALT ON CONCRETE
S 65TH STREET	ASPHALT ON CONCRETE
S 64TH STREET	ASPHALT ON CONCRETE
S 63RD STREET	ASPHALT ON CONCRETE
W MC GEOCH AVENUE	CONCRETE
S 62ND STREET	ASPHALT ON CONCRETE

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 4	E





AT BUMP OUT LOCATIONS (NO PARKING)

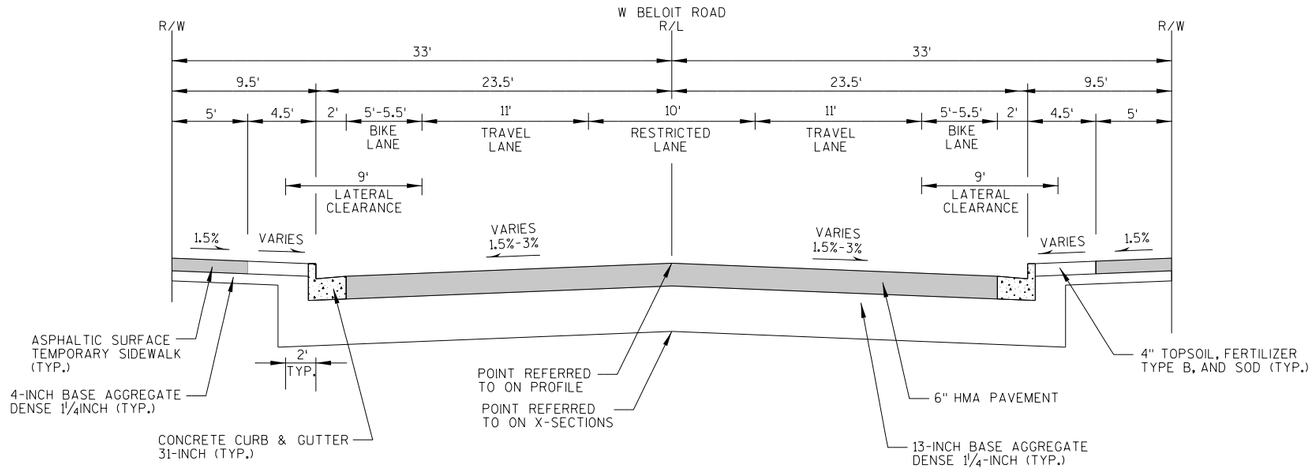


AT BUMP OUT LOCATIONS (NO PARKING)

TYPICAL FINISHED SECTION

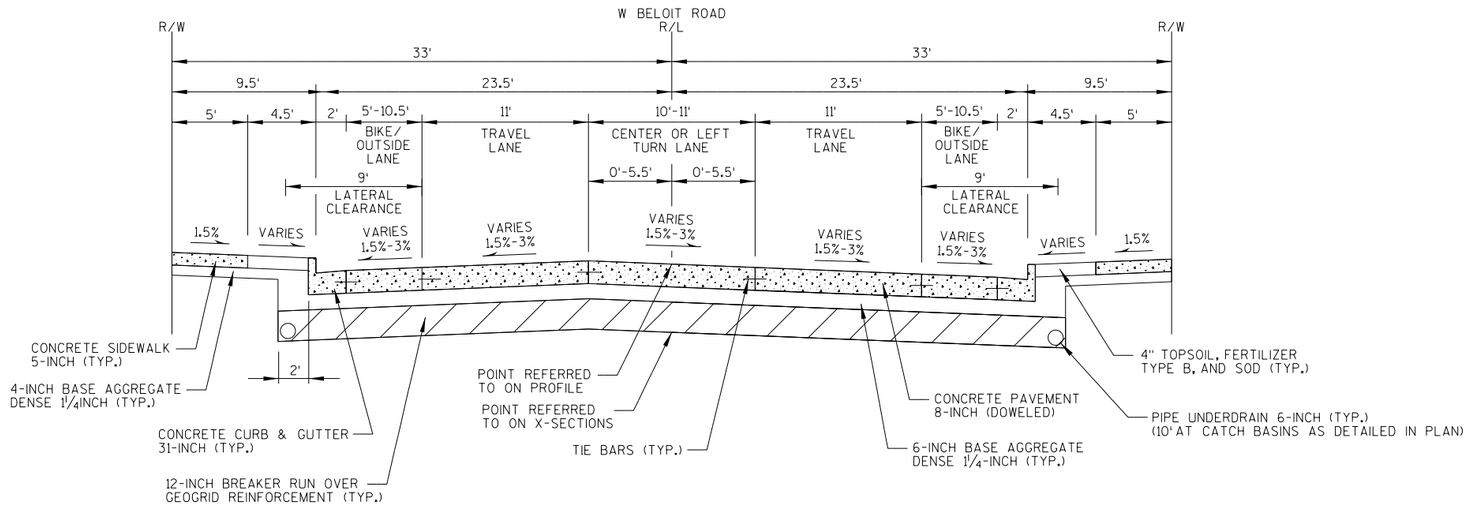
STA 17+33 TO STA 43+50

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 5	E



TYPICAL FINISHED SECTION

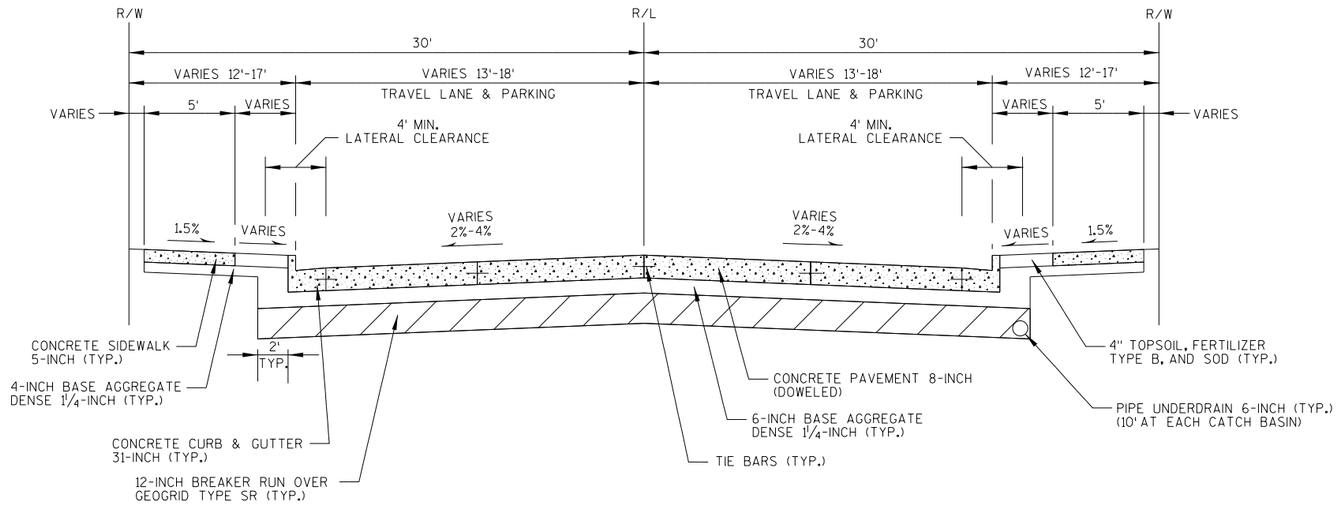
STA 43+50 TO STA 43+75
STA 46+30 TO STA 46+50



TYPICAL FINISHED SECTION

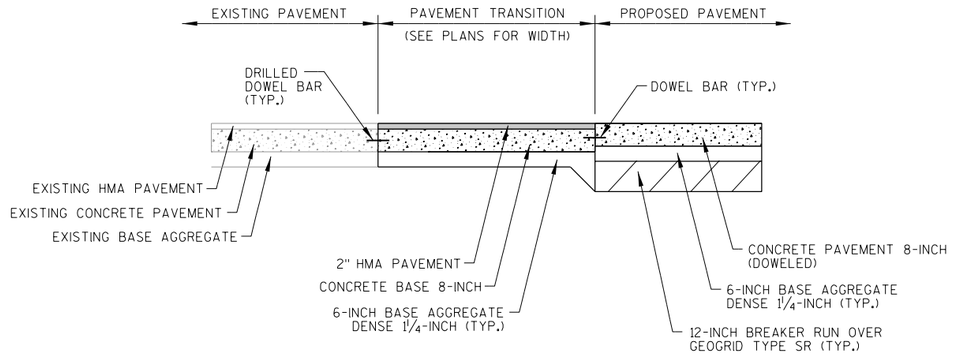
STA 46+50 TO STA 49+45

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 6	E



TYPICAL FINISHED SECTION SIDE ROADS

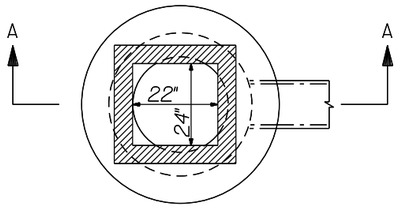
SIDESTREET	LANE WIDTH (LT & RT)
S 67TH PLACE	17.75'
S 67TH STREET	12.5'
S 66TH STREET	13'
S 65TH STREET	13.75'(S) & 18'(N)
S 64TH STREET	13'LT & 18'RT
S 63RD STREET	13'
W MC GEOCH AVENUE	16'
S 62ND STREET	16'



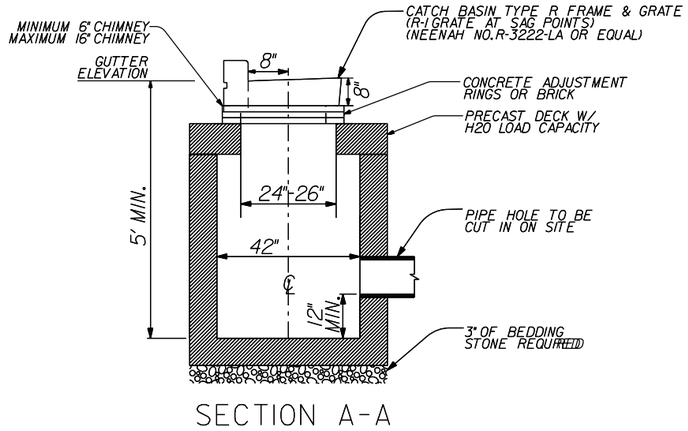
TYPICAL FINISHED SECTION - SIDE ROAD CONNECTIONS

SIDESTREET

W LINCOLN AVENUE, S 67TH STREET,
S 66TH STREET, W GRANT STREET
S 65TH STREET, S 64TH STREET
S 63RD STREET, S 62ND STREET



PLAN VIEW

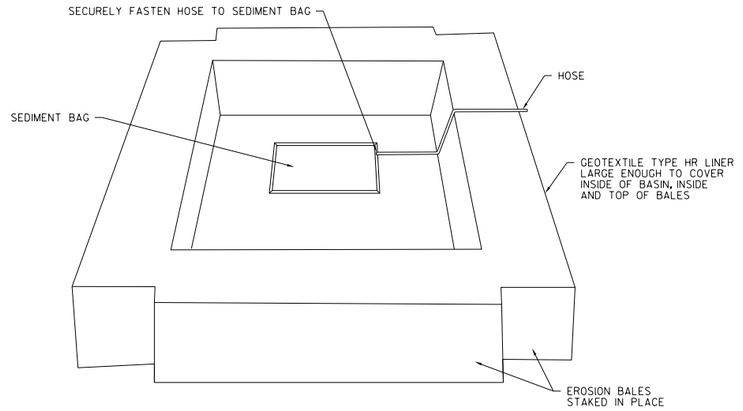


SECTION A-A

REVISED JAN. 2016
CITY OF WEST ALLIS

ROAD TYPE CATCH BASIN
FIGURE V-117

CATCH BASIN, SPECIAL



EXAMPLE TEMPORARY SETTLING BASIN DETAIL

(SIZE TO BE DETERMINED IN FIELD AS INDICATED BELOW:)

STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE)

EXAMPLE:
CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM
HEIGHT OF BALES = 1.5 FT.

SOLUTION:
SV (C.F.) = 16 X 50
SV = 800 C.F.

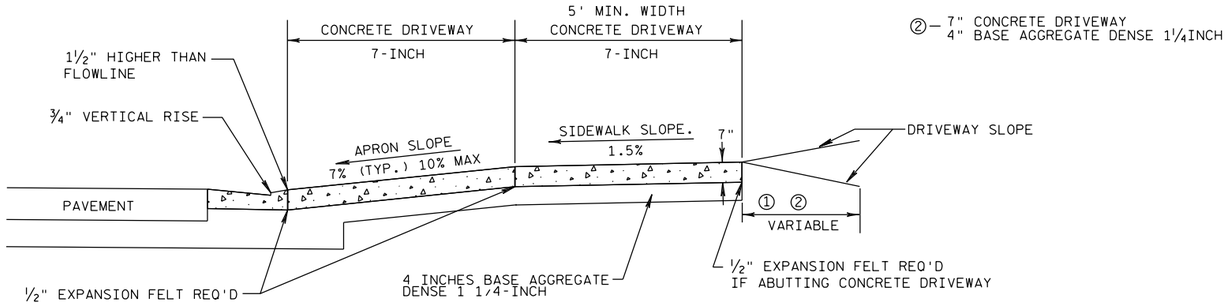
$\frac{800 \text{ C.F.}}{1.5 \text{ FT.}}$ = 533 S.F.

USE A 20 FT. X 27 FT. BASIN

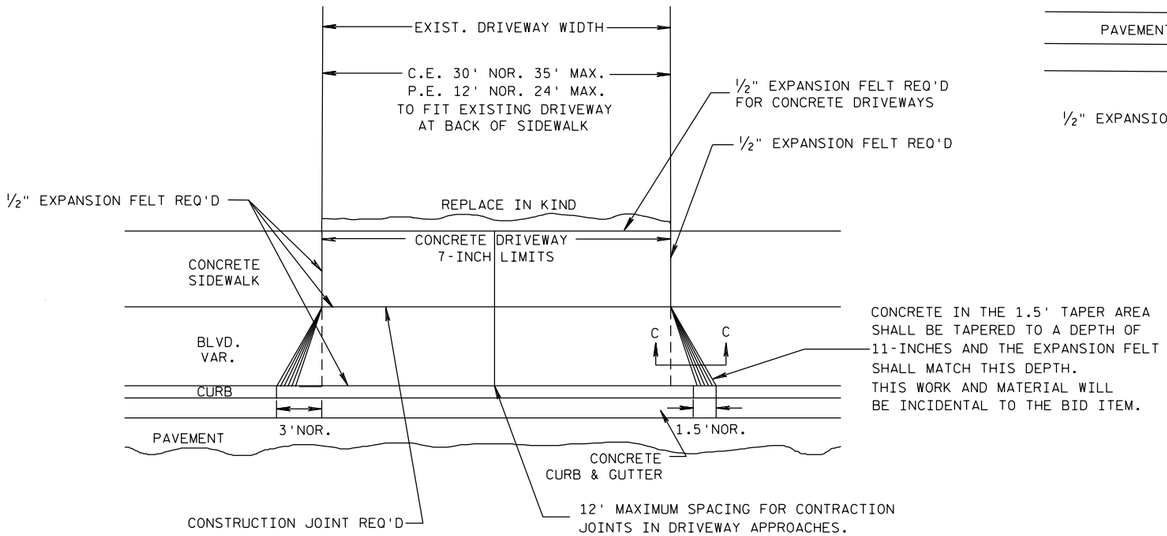
NOTES

1. CONTRACTOR SHALL PUMP TURBID WATER FROM EXCAVATION TO SEDIMENT BAG PLACED INSIDE FABRIC LINED STAKED BALE ENCLOSURE PRIOR TO DISCHARGING TO DITCHES/INLETS/WETLANDS OR WATERWAYS.
2. SEDIMENT BAG TO BE PLACED IN AN UPLAND VEGETATED AREA OR EQUIVALENT LOCATION APPROVED BY THE ENGINEER.
3. BASIN TO BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS TO BE DISPOSED BY THE CONTRACTOR OFF OF THE PROJECT SITE.
4. TEMPORARY SETTLING BASIN IS PAID FOR AS EROSION BALES AND GEOTEXTILE FABRIC TYPE HR. THE SEDIMENT BAGS ARE INCIDENTAL.
5. SEDIMENT BAG TO BE REPLACED AS NECESSARY AND IS INCIDENTAL TO CONTRACT.
6. SIZE TO BE DETERMINED BY THE CONTRACTOR AS PART OF THE ECIP SUBMITTAL.

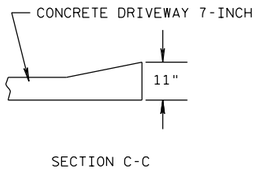
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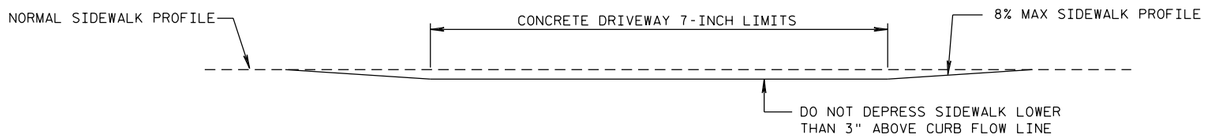
TYPICAL SIDEWALK SECTION



PLAN VIEW



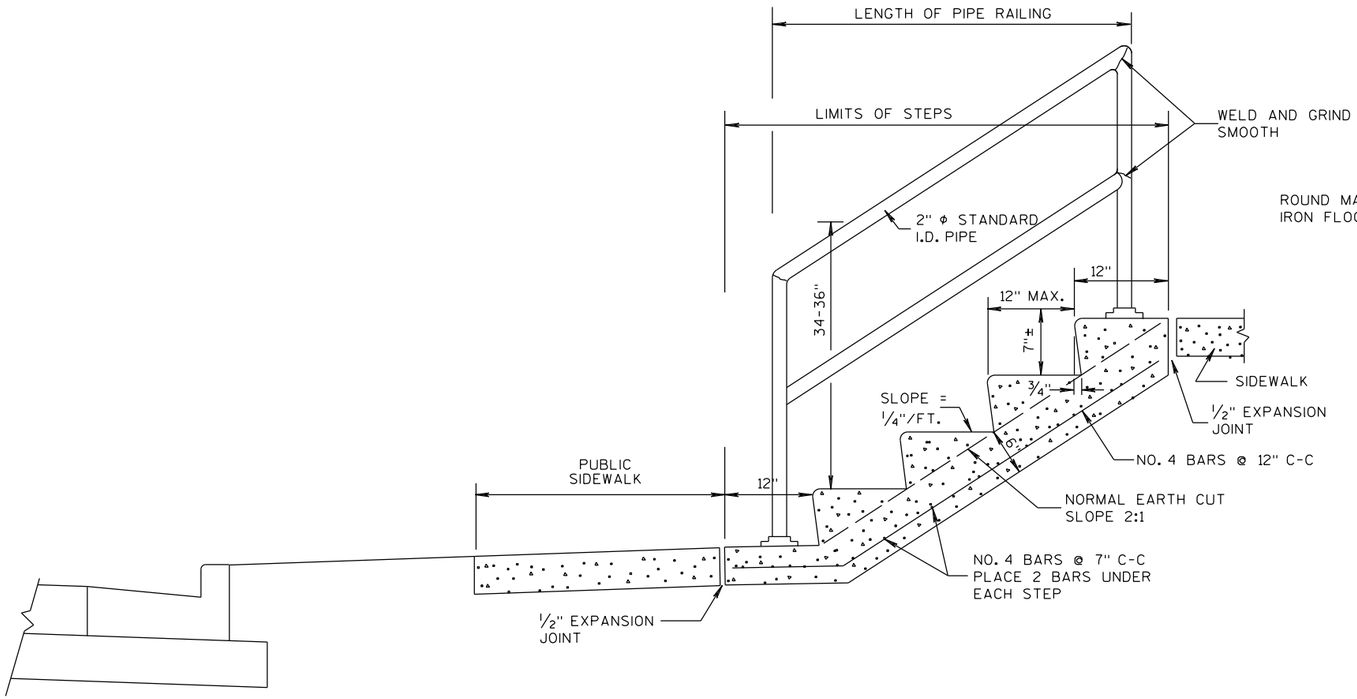
SECTION C-C



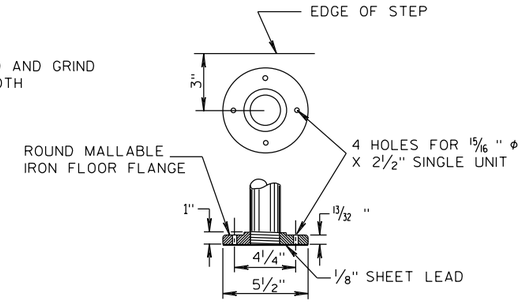
DEPRESSED SIDEWALK PROFILE DETAIL

DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK, CURB & GUTTER

PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CONSTRUCTION DETAILS	SHEET 9	E



CONCRETE STEPS DETAIL



FLANGE DETAIL

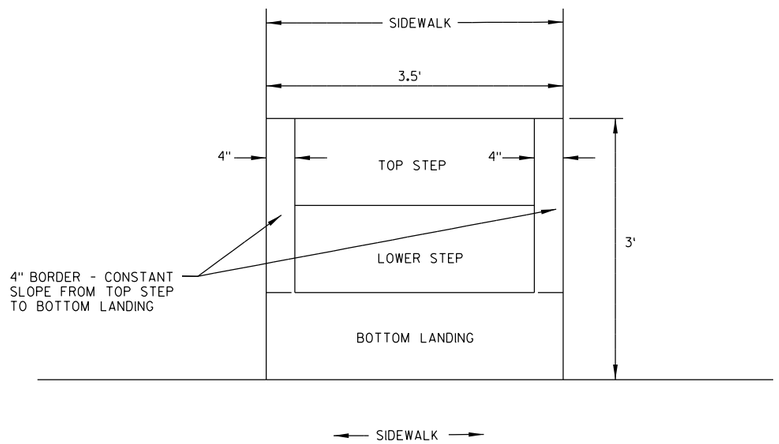
NOTE:

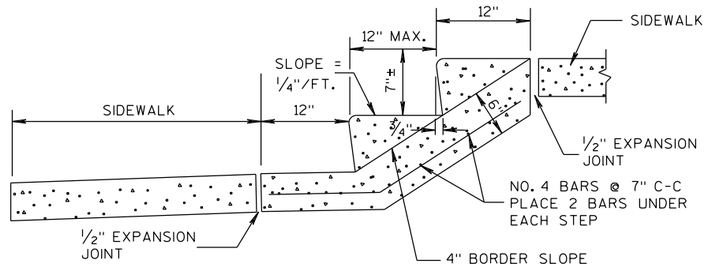
THE EXACT LOCATION, WIDTHS, & NUMBER OF STEPS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STEEL REINFORCEMENT AND PIPE RAILING NOT REQUIRED ON STEPS WITH 2 RISERS OR LESS.

WIDTH OF STEP TO MATCH EXISTING WALK.

RAILING TO BE PLACED ON LEFT ASCENDING SIDE OF STEPS ONLY.

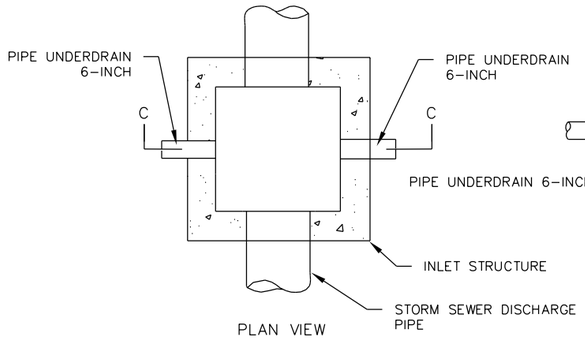




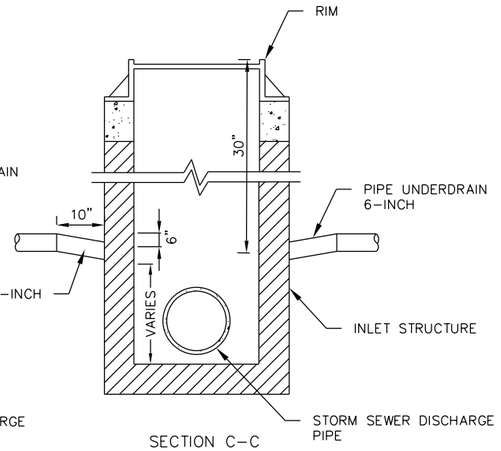
SPECIAL DETAIL FOR STEPS STA 29+52 LT

(SEE CONCRETE STEP DETAIL FOR ADDITIONAL INFORMATION. PAID FOR AS CONRETE STEPS)

PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CONSTRUCTION DETAILS	SHEET 10	E



PLAN VIEW



SECTION C–C

UNDERDRAIN OUTFALL AT INLET

NOTES:

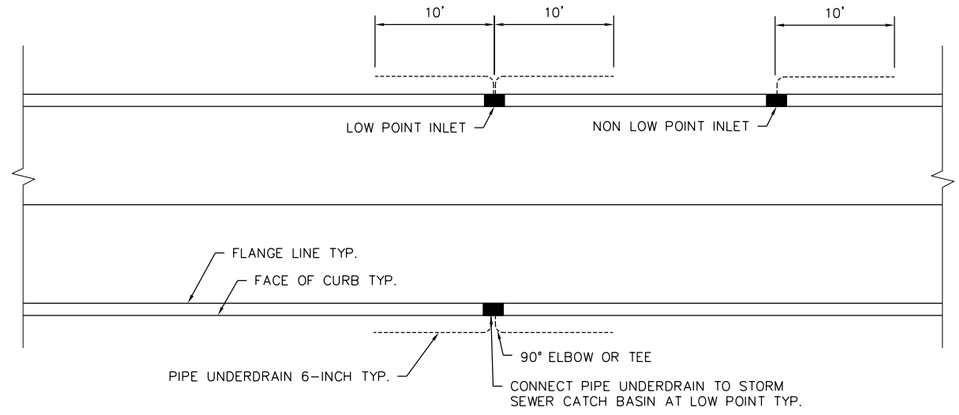
1. CONNECTIONS TO INLETS SHALL USE PIPE UNDERDRAIN, 6–INCH

2. PROVIDE 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 30" BELOW THE RIM ELEVATION. CORE INTO EXISTING INLETS TO REMAIN.

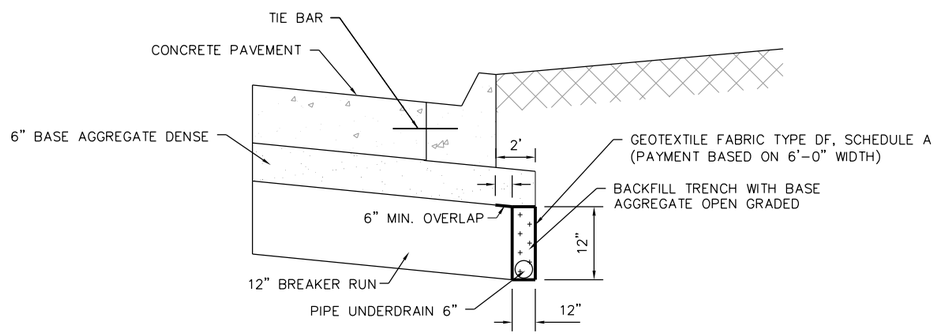
3. SEE MISCELLANEOUS QUANTITIES AND STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS.

4. PIPE UNDERDRAIN ONLY REQUIRED ON HIGH SIDE OF INLET IN SLOPED CONDITION.

5. PIPE UNDERDRAIN REQUIRED ON BOTH SIDES OF INLET IN SAG CONDITION.

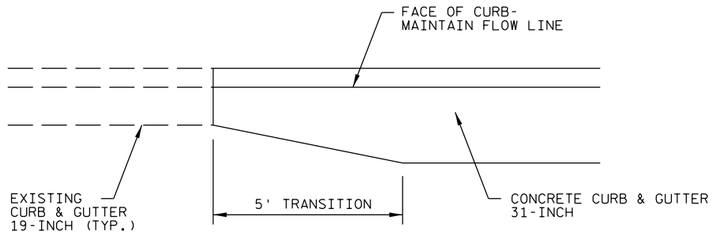


PLAN



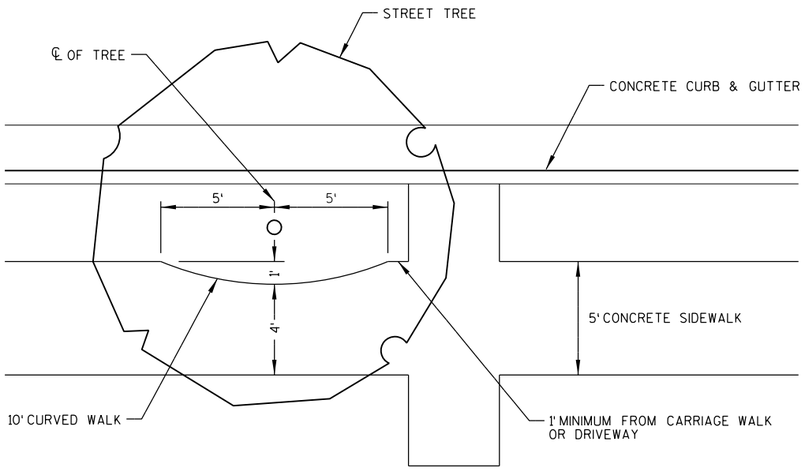
UNDERDRAIN TRENCH DETAIL

10' EACH SIDE OF INLET AT LOW POINTS.
10' ON HIGH SIDE OF INLET AT ALL OTHER INLETS
CONNECT PIPE UNDERDRAIN TO INLETS

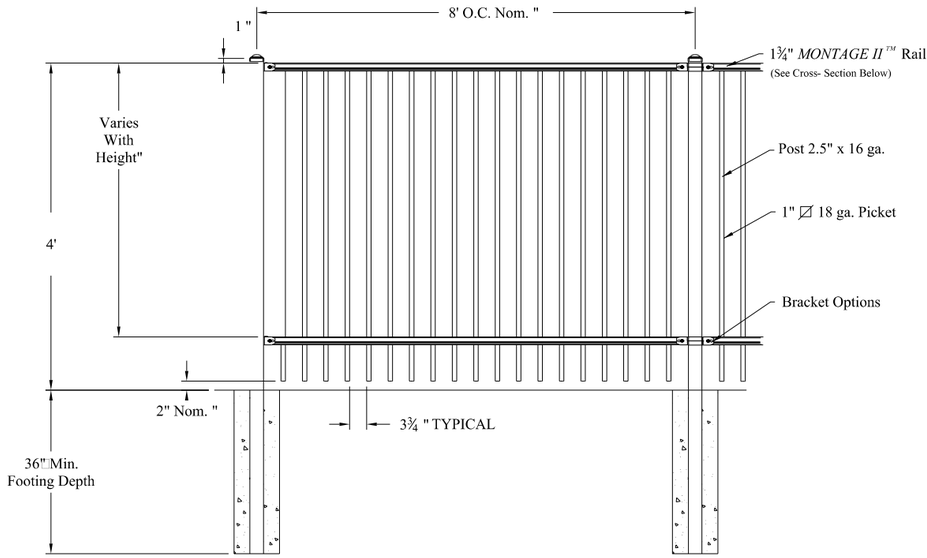


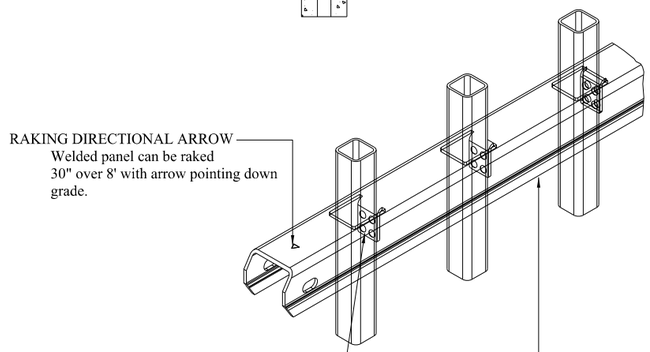
CONCRETE CURB AND GUTTER TRANSITION

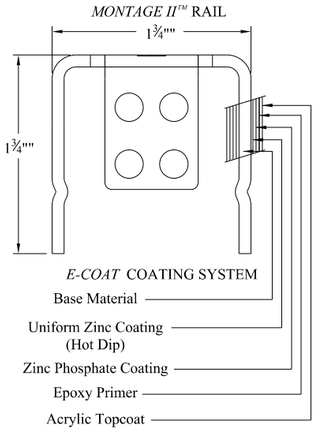
(TRANSITION LENGTH PAID AS CONCRETE CURB AND GUTTER 31-INCH)

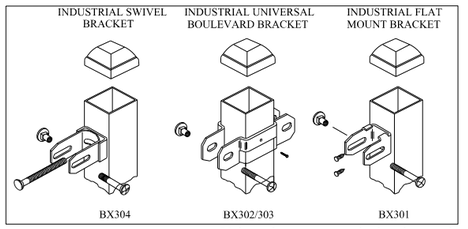


CURVED SIDEWALK ARC AT TREE LOCATIONS





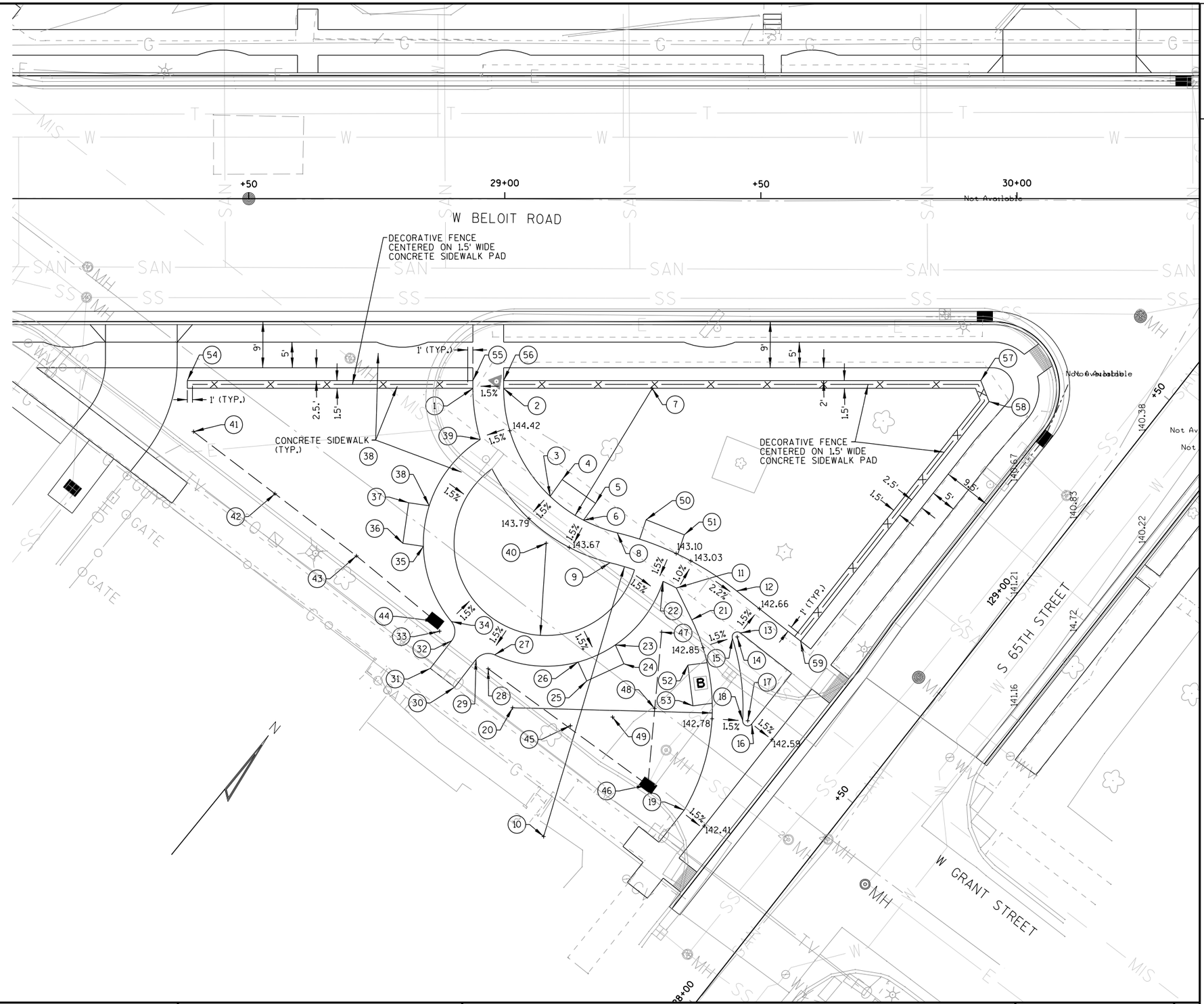




Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

DECORATIVE FENCE

POINT NUMBER	STATION	OFFSET		ELEVATION	DESCRIPTION
1	28+93.79	37.05	RT	144.69	BEGIN 35' RADIUS
2	28+99.79	37.05	RT	144.78	BEGIN 29' RADIUS
3	29+08.86	58.12	RT	143.88	CONCRETE SIDEWALK PAD
4	29+11.21	54.82	RT	143.94	CONCRETE SIDEWALK PAD
5	29+17.72	59.47	RT	143.82	CONCRETE SIDEWALK PAD
6	29+16.38	62.76	RT	143.76	CONCRETE SIDEWALK PAD
7	29+28.79	37.05	RT	--	29' AND 35' RADIUS
8	29+21.96	65.23	RT	143.50	END 29' RADIUS, BEGIN 61' RADIUS
9	29+20.54	71.06	RT	143.41	END 35' RADIUS, BEGIN 55' RADIUS
10	29+07.59	124.51	RT	--	55' AND 61' RADIUS
11	29+33.50	76.00	RT	143.09	TAPER POINT
12	29+45.29	76.56	RT	142.78	END 61' RADIUS
13	29+46.01	84.76	RT	142.74	BEGIN 1' RADIUS
14	29+45.40	85.55	RT	--	1' RADIUS
15	29+44.44	85.85	RT	142.77	END 1' RADIUS, BEGIN 45' RADIUS
16	29+48.24	102.54	RT	142.67	BEGIN 1' RADIUS
17	29+47.45	101.92	RT	--	1' RADIUS
18	29+46.45	101.86	RT	142.70	END 1' RADIUS, END 45' RADIUS
19	29+35.01	119.35	RT	142.49	BEGIN 39' RADIUS
20	29+01.52	99.37	RT	--	39' RADIUS
21	29+36.54	82.19	RT	142.91	END 39' RADIUS
22	29+30.92	74.71	RT	143.01	BEGIN 24' RADIUS
23	29+21.59	87.12	RT	143.20	CONCRETE PAD
24	29+23.27	90.80	RT	143.14	CONCRETE PAD
25	29+16.00	94.13	RT	143.26	CONCRETE PAD
26	29+14.31	90.45	RT	143.32	CONCRETE PAD
27	28+98.02	89.05	RT	143.64	BEGIN 3' RADIUS
28	28+96.76	91.78	RT	143.30	3' RADIUS/BEGIN SWALE
29	28+94.39	89.94	RT	143.76	END 3' RADIUS
30	28+90.21	95.36	RT	143.90	MATCH EXISTING SIDEWALK
31	28+85.46	91.69	RT	144.10	MATCH EXISTING SIDEWALK
32	28+89.64	86.28	RT	143.84	BEGIN 3' RADIUS
33	28+87.26	84.44	RT	--	3' RADIUS
34	28+89.58	82.54	RT	143.79	END 3' RADIUS
35	28+84.10	67.85	RT	144.10	CONCRETE SIDEWALK PAD
36	28+80.10	67.27	RT	144.16	CONCRETE SIDEWALK PAD
37	28+81.24	59.36	RT	144.24	CONCRETE SIDEWALK PAD
38	28+85.25	59.93	RT	144.18	CONCRETE SIDEWALK PAD
39	28+95.23	47.01	RT	144.33	END 24' RADIUS
40	29+08.10	67.27	RT	--	18' AND 24' RADIUS
41	28+39.25	45.48	RT	145.70	BEGIN SWALE
42	28+55.15	57.61	RT	144.90	SWALE
43	28+71.05	69.73	RT	144.00	SWALE
44	28+86.50	82.50	RT	143.50	END SWALE
45	29+12.83	102.88	RT	142.60	SWALE
46	29+27.97	114.42	RT	141.80	END SWALE
47	29+30.63	84.59	RT	142.45	BEGIN SWALE
48	29+29.28	99.53	RT	142.29	SWALE
49	29+21.06	101.20	RT	142.80	GROUND POINT
50	29+27.61	62.68	RT	143.42	CONCRETE SIDEWALK PAD
51	29+35.06	65.61	RT	143.16	CONCRETE SIDEWALK PAD
52	29+35.75	91.04	RT	142.89	CONCRETE SIDEWALK PAD
53	29+36.75	98.98	RT	142.85	CONCRETE SIDEWALK PAD
54	28+38.03	35.50	RT	146.44	CONCRETE SIDEWALK FENCE PAD
55	28+93.79	35.50	RT	144.77	CONCRETE SIDEWALK FENCE PAD
56	28+99.79	35.50	RT	144.79	CONCRETE SIDEWALK FENCE PAD
57	29+92.95	35.50	RT	141.53	CONCRETE SIDEWALK FENCE PAD
58	29+94.55	39.59	RT	141.31	CONCRETE SIDEWALK FENCE PAD
59	29+57.77	86.37	RT	142.09	CONCRETE SIDEWALK FENCE PAD



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	POCKET PARK PLAN DETAIL	SHEET 13	E

APPROXIMATE LIMITS OF CONTAMINATED SOILS WHICH MAY BE ENCOUNTERED DURING EXCAVATION OPERATIONS.

S 66TH STREET

W BELOIT ROAD

S 65TH STREET

W GRANT STREET

AREA 1 - HAZMAT SOILS
4' - 8' BELOW GROUND SURFACE

AREA 2 - HAZMAT SOILS
1' TO MAXIMUM DEPTH
OF EXCAVATION

PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CONSTRUCTION DETAIL - CONTAMINATED SOILS	SHEET 14	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\021003_cd.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

APPROXIMATE LIMITS OF CONTAMINATED SOILS WHICH MAY BE ENCOUNTERED DURING EXCAVATION OPERATIONS.

AREA 3 - HAZMAT SOILS
1' - 4' BELOW ROUND SURFACE

W BELOIT ROAD

W MOBILE STREET

UNION PACIFIC RAILROAD

PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CONSTRUCTION DETAIL - CONTAMINATED SOILS	SHEET 15	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\021004_cd.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

2

W LINCOLN AVENUE

S 67TH PLACE

W BELOIT ROAD

S 68TH STREET

W LINCOLN AVENUE

BEGIN PROJECT
STA. 17+33.24
Y=371,986.14
X=2,535,921.03

SAWCUT AND MATCH
EXISTING PAVEMENT
STA 100+96.87

REMOVE GUARDRAIL

REMOVING BOLLARD

MATCH LINE STA. 20+00

16+00 +50 17+00 +50 18+00 +50 100+00 19+00 +50 20

102+00 +50

10+00 +50

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- X X X X X SAWING CONCRETE
- Y Y Y Y Y SAWING ASPHALT
- REMOVING CURB & GUTTER
- TREE TO BE REMOVED
- XX EXISTING DRAINAGE STRUCTURE TO BE REMOVED
- REMOVE STORM SEWER
- ABANDON STORM SEWER

NOTE:

CONCRETE DRIVEWAY REMOVALS SHALL BE MEASURED AND PAID FOR AS REMOVING SIDEWALK.

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 16	E

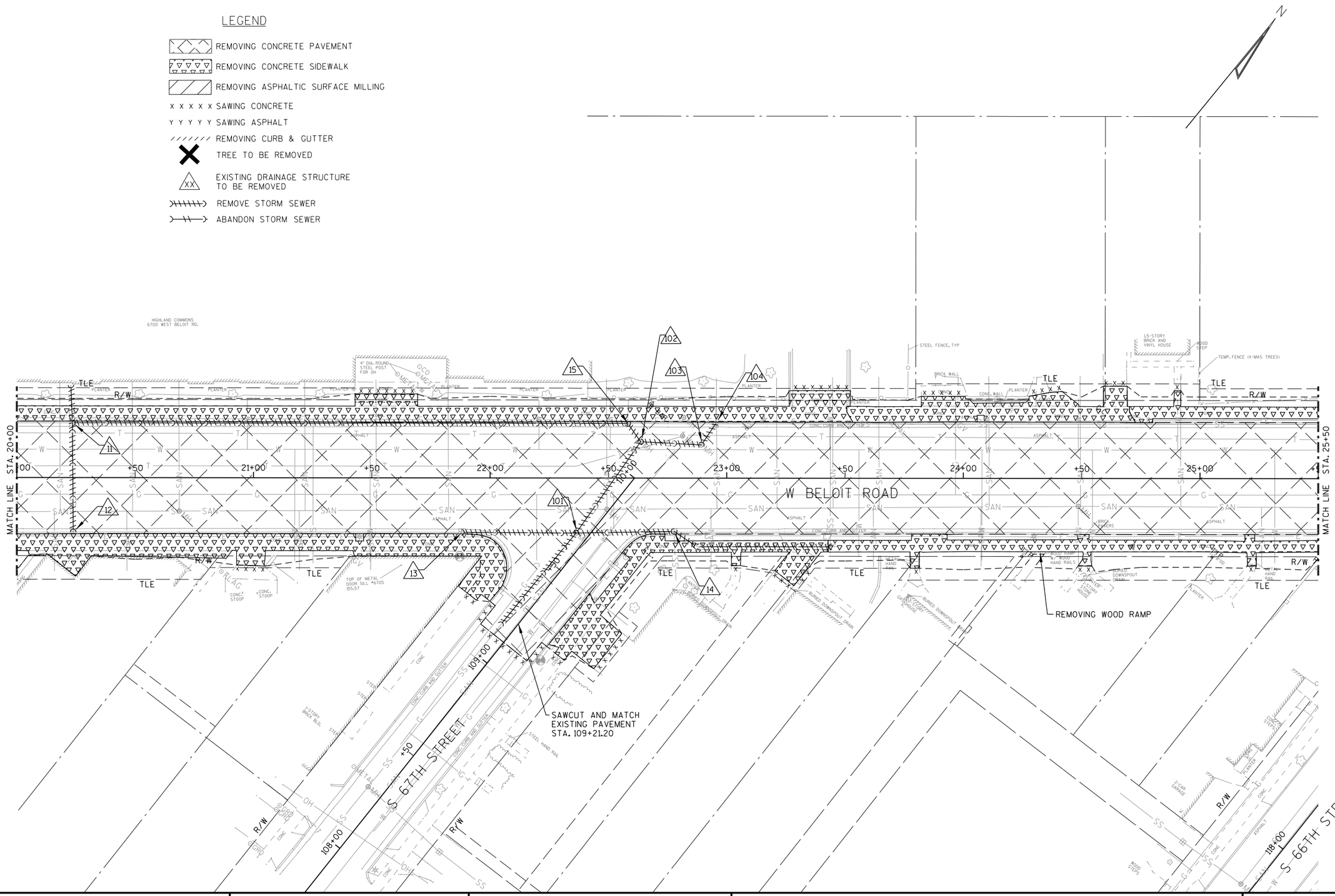
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2

2

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- X X X X X SAWING CONCRETE
- Y Y Y Y Y SAWING ASPHALT
- REMOVING CURB & GUTTER
- TREE TO BE REMOVED
- XX EXISTING DRAINAGE STRUCTURE TO BE REMOVED
- REMOVE STORM SEWER
- ABANDON STORM SEWER

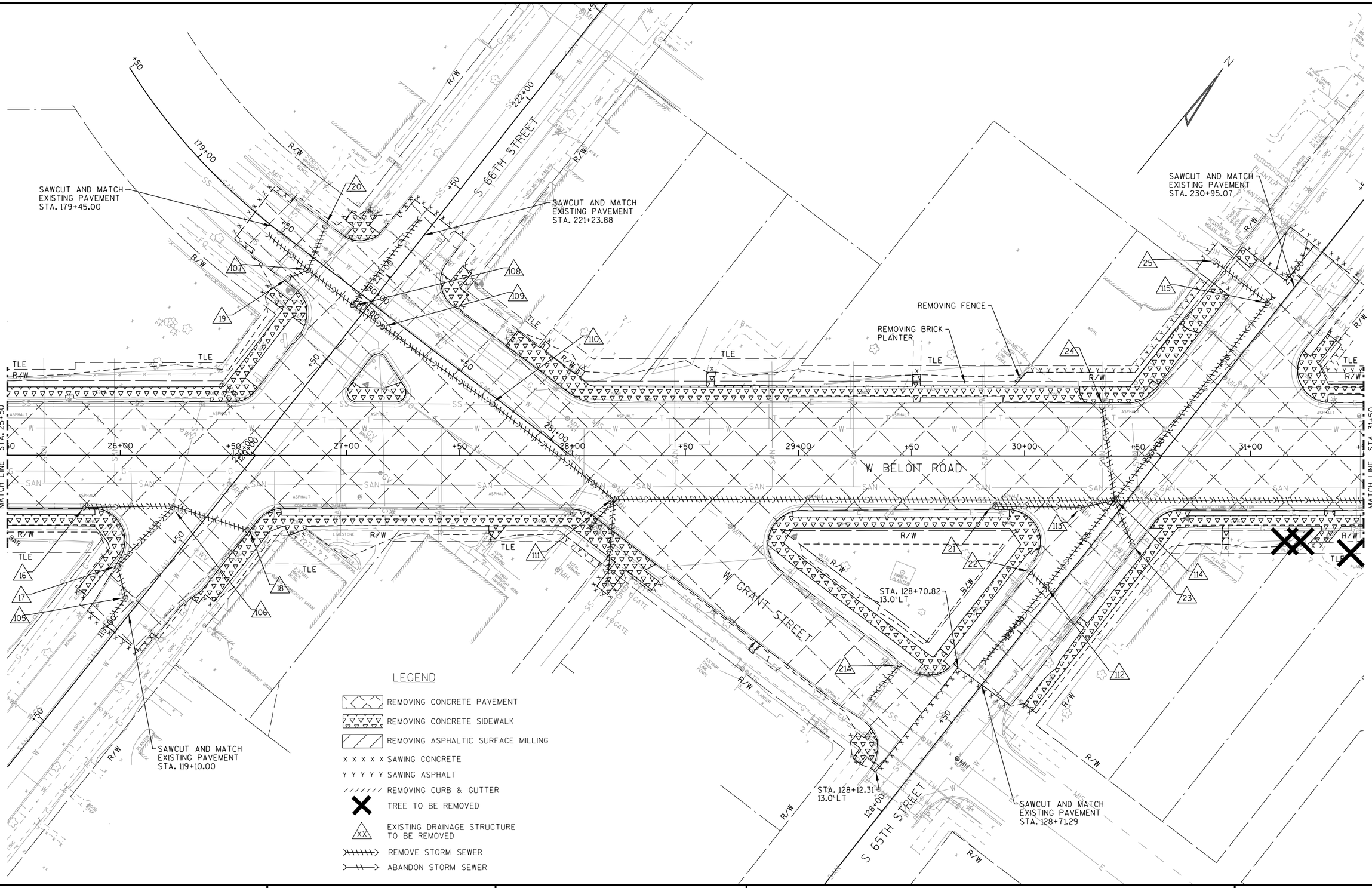


PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 17	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\021012_rm.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 42

2



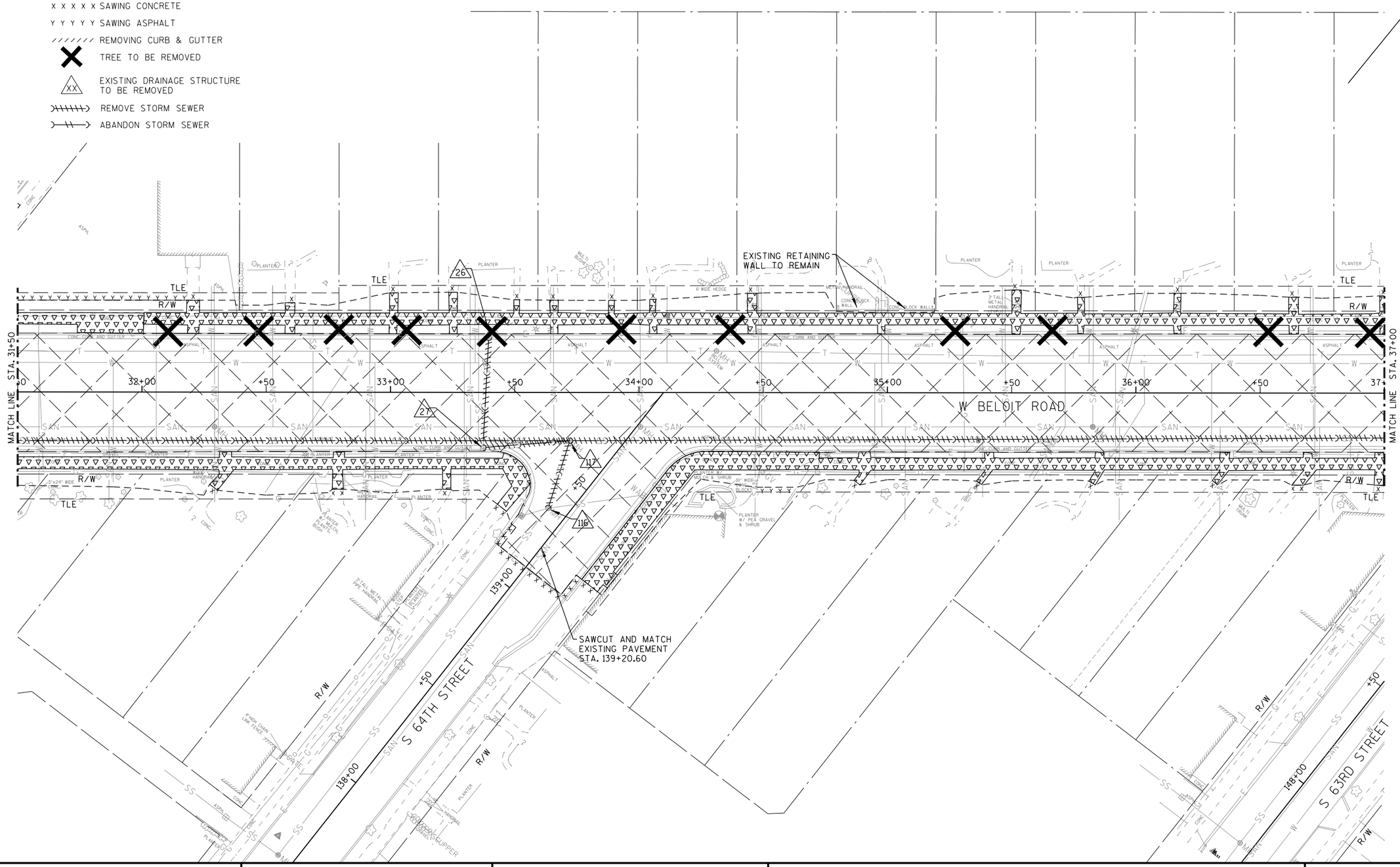
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 18	E

2

2

LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- X X X X X SAWING CONCRETE
- Y Y Y Y Y SAWING ASPHALT
- REMOVING CURB & GUTTER
- TREE TO BE REMOVED
- XX EXISTING DRAINAGE STRUCTURE TO BE REMOVED
- REMOVE STORM SEWER
- ABANDON STORM SEWER



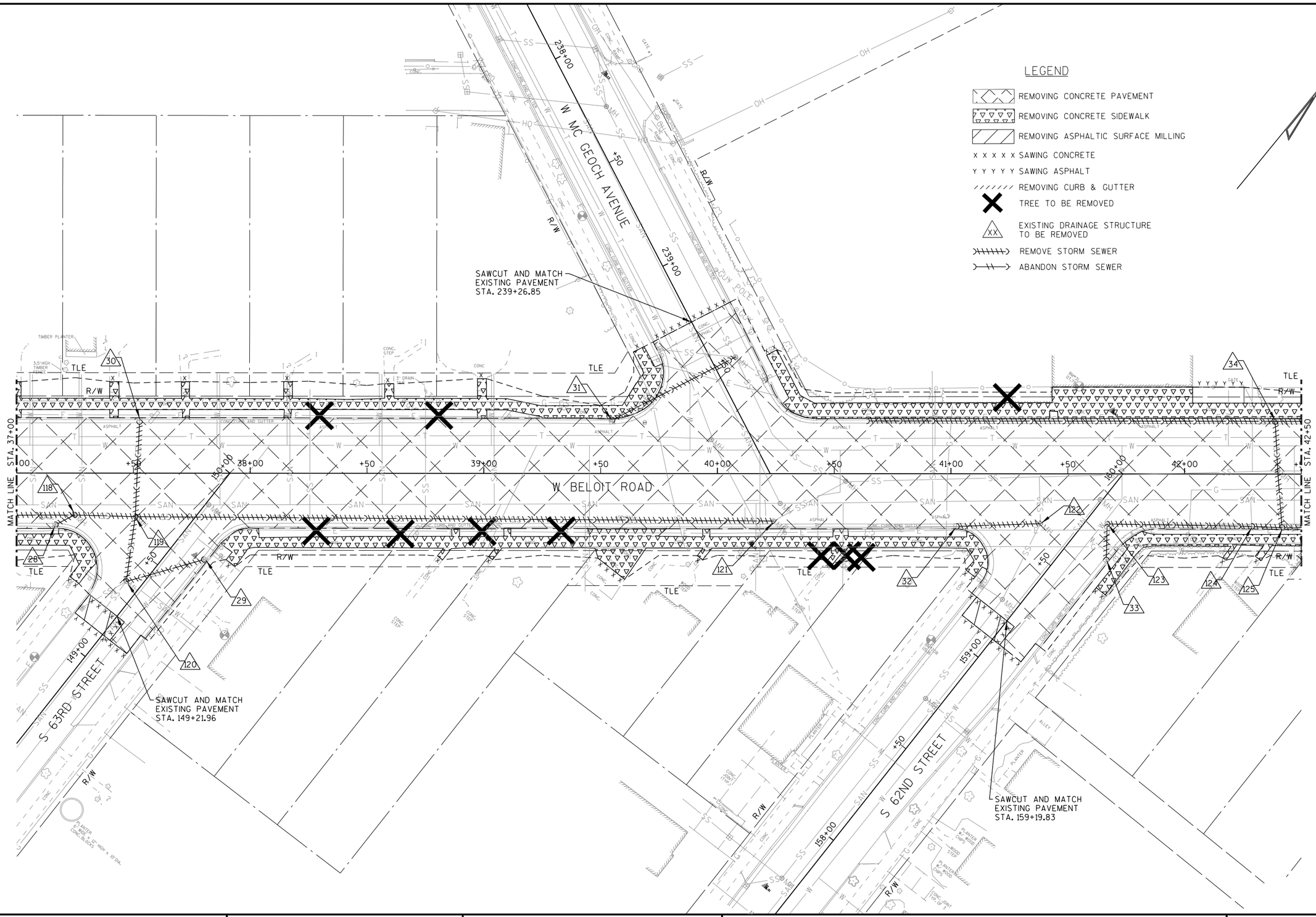
PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	REMOVAL PLAN	SHEET 19	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\021014_rm.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 20	E

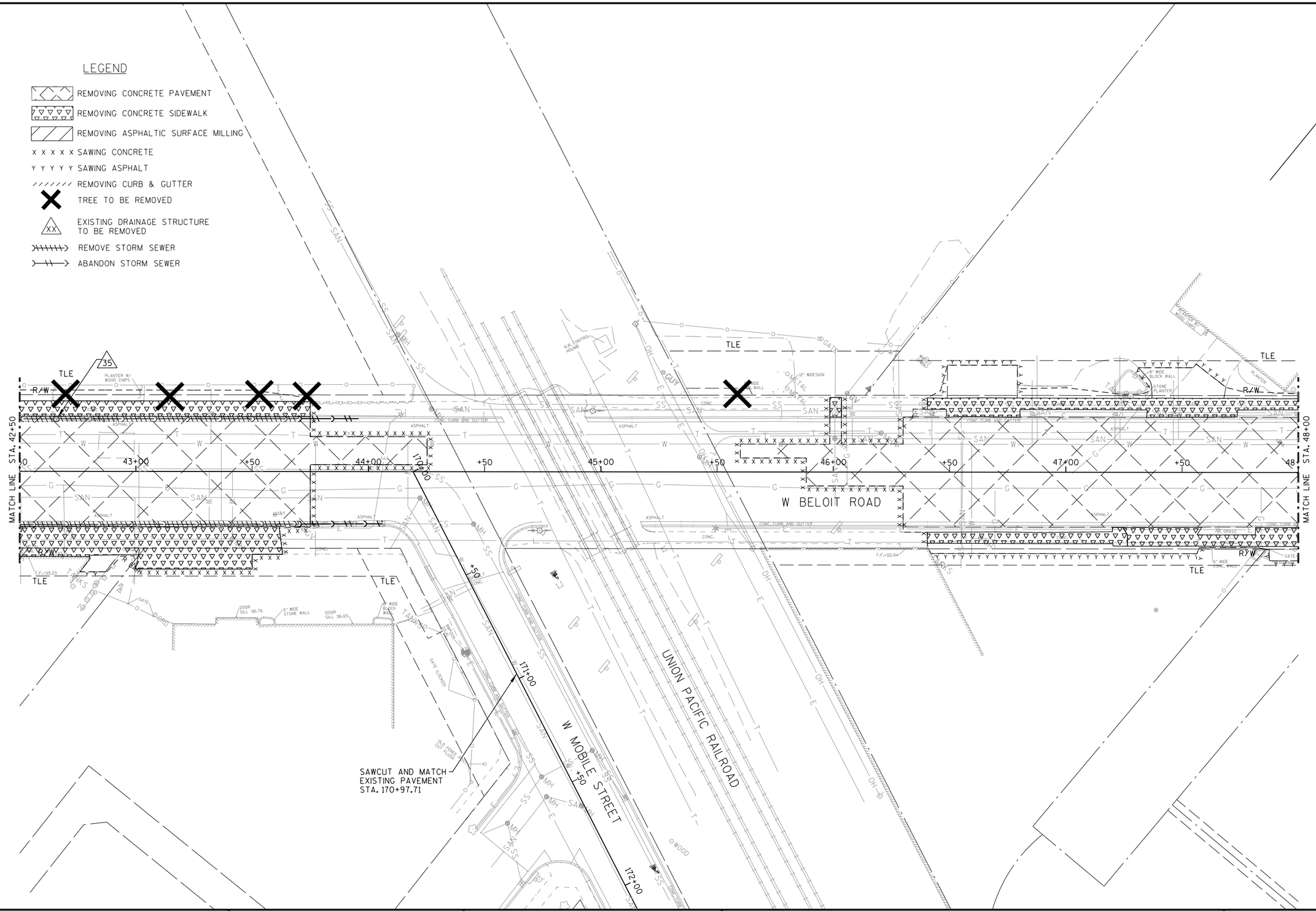
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WISDOT/CADDS SHEET 42

2

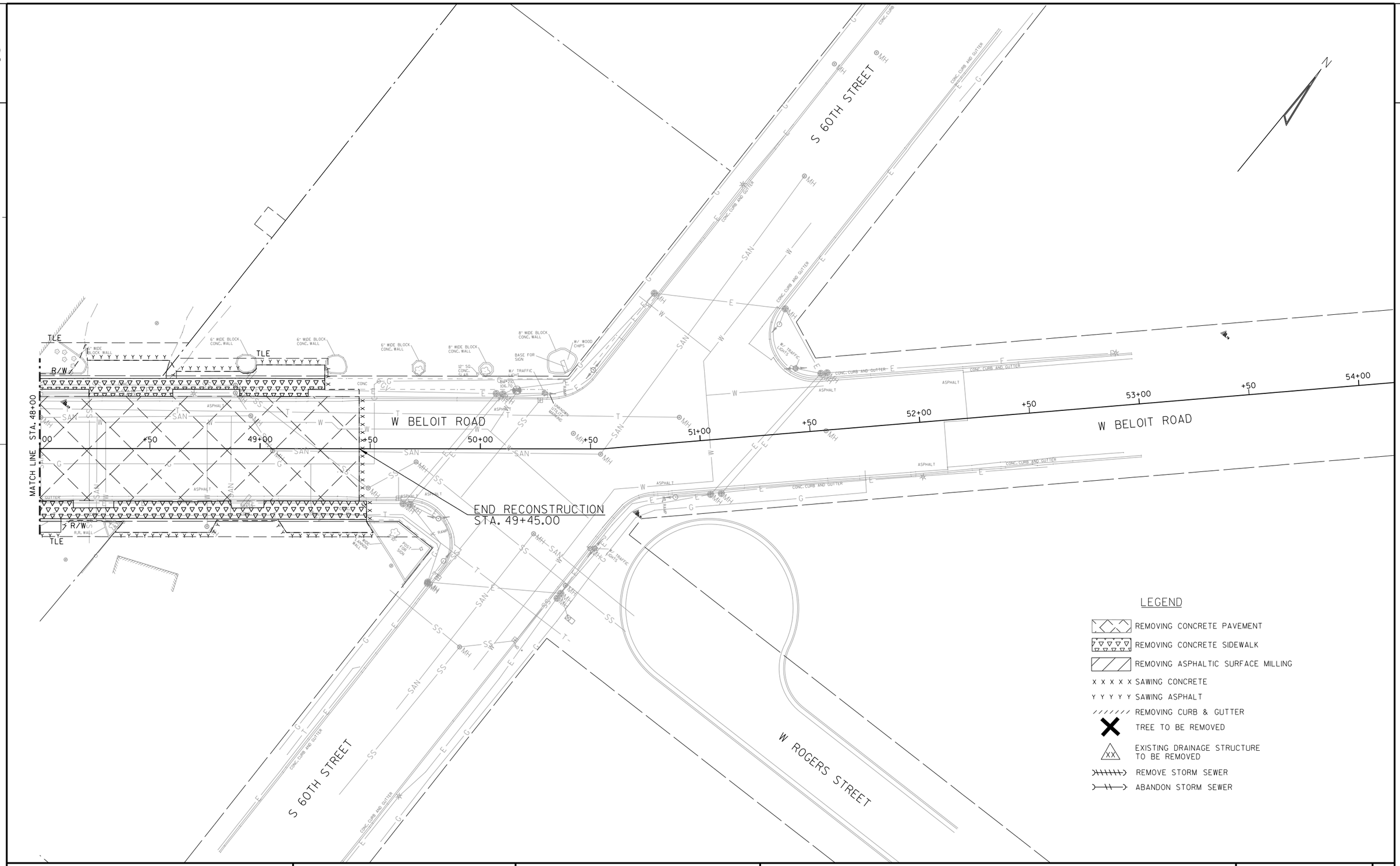
LEGEND

- REMOVING CONCRETE PAVEMENT
- REMOVING CONCRETE SIDEWALK
- REMOVING ASPHALTIC SURFACE MILLING
- X X X X X SAWING CONCRETE
- Y Y Y Y Y SAWING ASPHALT
- REMOVING CURB & GUTTER
- TREE TO BE REMOVED
- XX EXISTING DRAINAGE STRUCTURE TO BE REMOVED
- REMOVE STORM SEWER
- ABANDON STORM SEWER



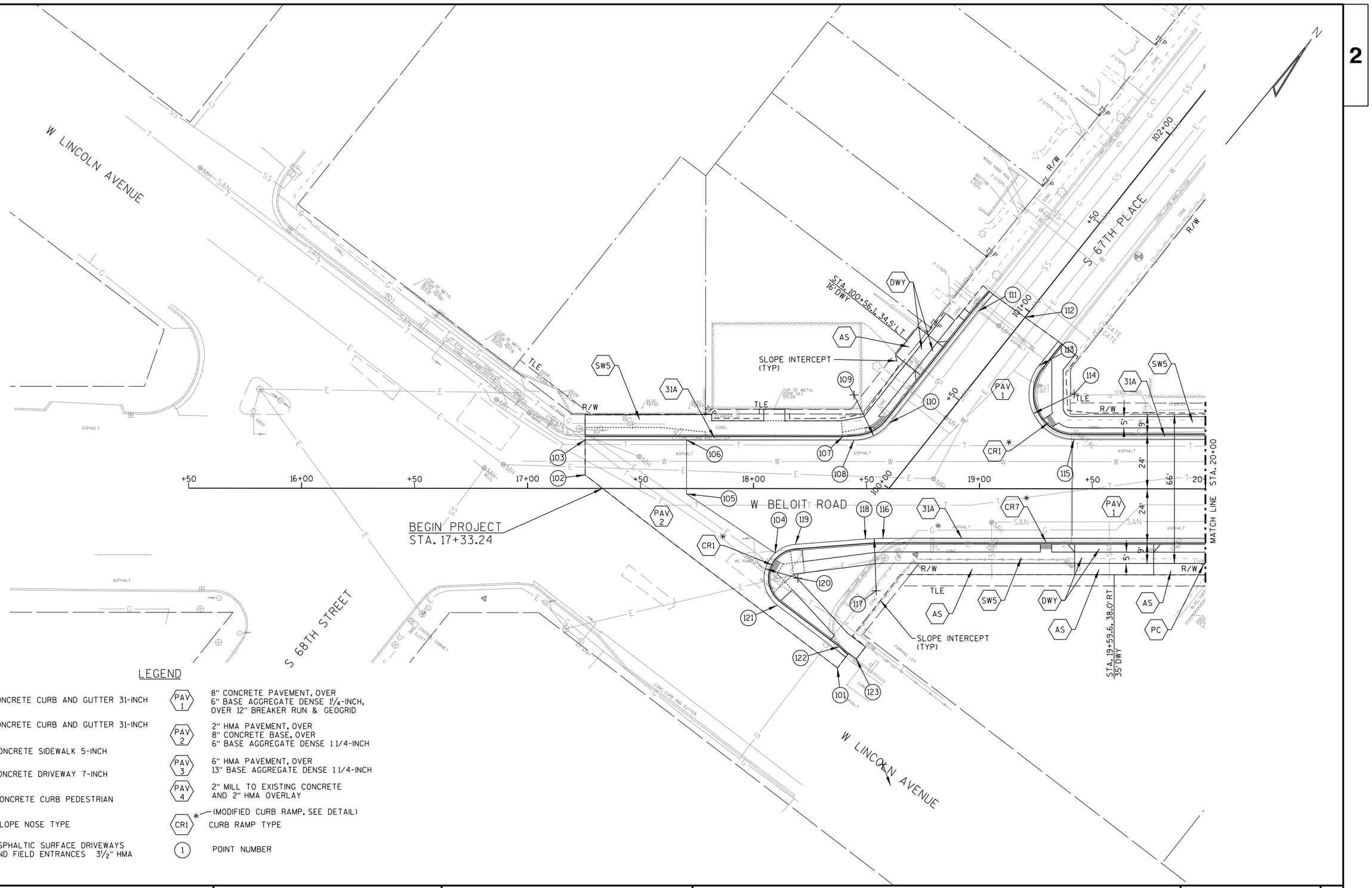
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 21	E

2



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	REMOVAL PLAN	SHEET 22	E

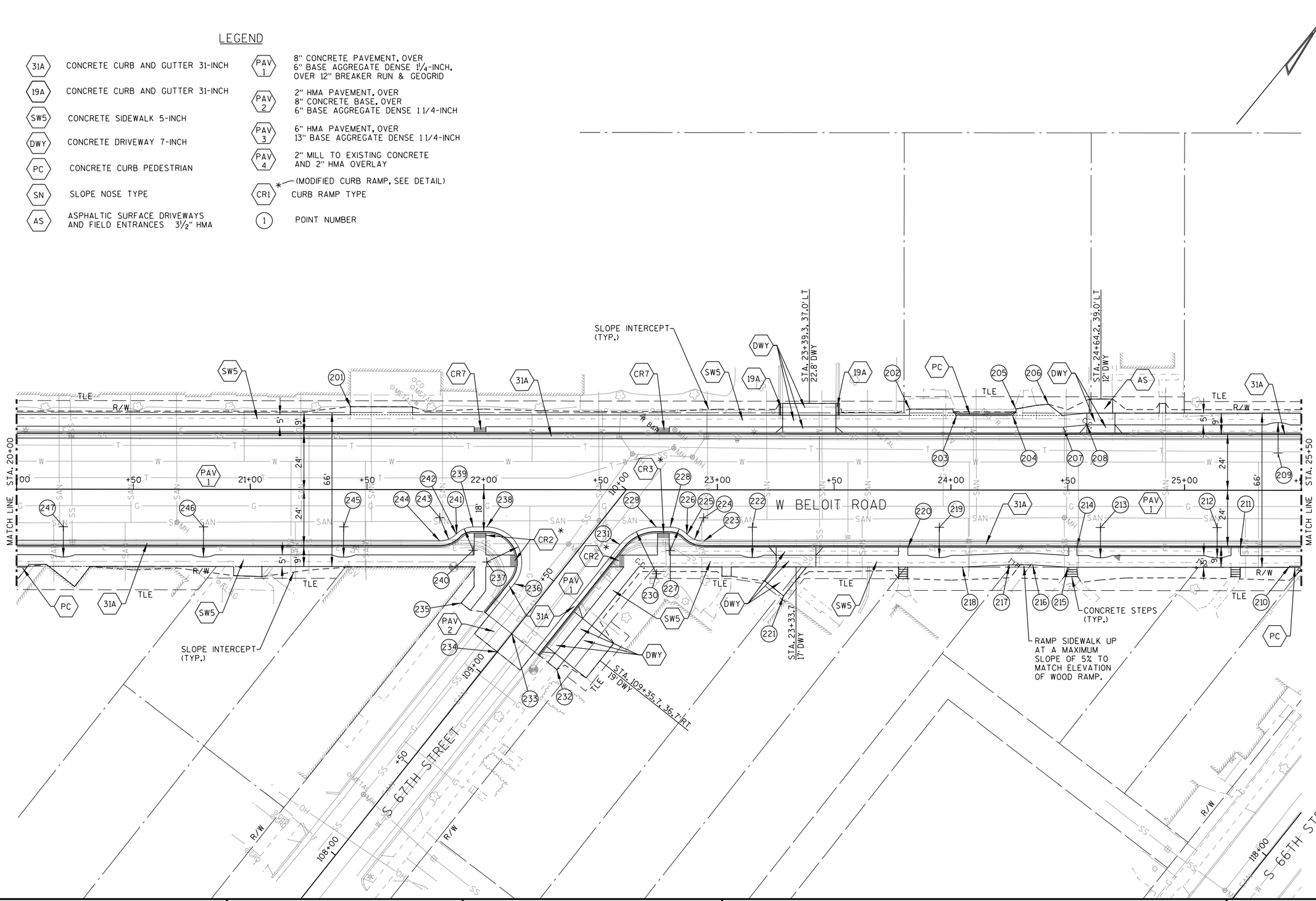
2



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 23	E

LEGEND

31A	CONCRETE CURB AND GUTTER 31-INCH
19A	CONCRETE CURB AND GUTTER 31-INCH
SW5	CONCRETE SIDEWALK 5-INCH
DWY	CONCRETE DRIVEWAY 7-INCH
PC	CONCRETE CURB PEDESTRIAN
SN	SLOPE NOSE TYPE
AS	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3½" HMA
PAV 1	8" CONCRETE PAVEMENT, OVER 6" BASE AGGREGATE DENSE 1¼-INCH, OVER 12" BREAKER RUN & GEOGRID
PAV 2	2" HMA PAVEMENT, OVER 8" CONCRETE BASE, OVER 6" BASE AGGREGATE DENSE 1 1/4-INCH
PAV 3	6" HMA PAVEMENT, OVER 13" BASE AGGREGATE DENSE 1 1/4-INCH
PAV 4	2" MILL TO EXISTING CONCRETE AND 2" HMA OVERLAY
CR1 *	(MODIFIED CURB RAMP, SEE DETAIL) CURB RAMP TYPE
1	POINT NUMBER



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 24	E

2

LEGEND

31A	CONCRETE CURB AND GUTTER 31-INCH
19A	CONCRETE CURB AND GUTTER 31-INCH
SW5	CONCRETE SIDEWALK 5-INCH
DWY	CONCRETE DRIVEWAY 7-INCH
PC	CONCRETE CURB PEDESTRIAN
SN	SLOPE NOSE TYPE
AS	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3½" HMA
PAV 1	8" CONCRETE PAVEMENT, OVER 6" BASE AGGREGATE DENSE 1¼-INCH, OVER 12" BREAKER RUN & GEOGRID
PAV 2	2" HMA PAVEMENT, OVER 8" CONCRETE BASE, OVER 6" BASE AGGREGATE DENSE 1 1/4-INCH
PAV 3	6" HMA PAVEMENT, OVER 13" BASE AGGREGATE DENSE 1 1/4-INCH
PAV 4	2" MILL TO EXISTING CONCRETE AND 2" HMA OVERLAY
CR1 *	(MODIFIED CURB RAMP, SEE DETAIL) CURB RAMP TYPE
1	POINT NUMBER

W BELOIT ROAD

S 66TH STREET

S 65TH STREET

W GRANT STREET

MATCH LINE STA. 25+50

MATCH LINE STA. 31+50

179+00

180+00

119+00

220+00

221+00

222+00

280+00

281+00

230+00

231+00

128+00

129+00

STA. 230+82.1 15.5 ALLEY 39.0' LT

STA. 230+39.2 14' DWY 32.0' LT

STA. 30+10.3 26' DWY 37.0' LT

STA. 28+29.0 14' ALLEY

SLOPE INTERCEPT (TYP.)

SEE POCKET PARK DETAIL SHEET FOR ADDITIONAL LAYOUT INFORMATION

BENCH

TRASH RECEPTACLE

RECYCLING RECEPTACLE

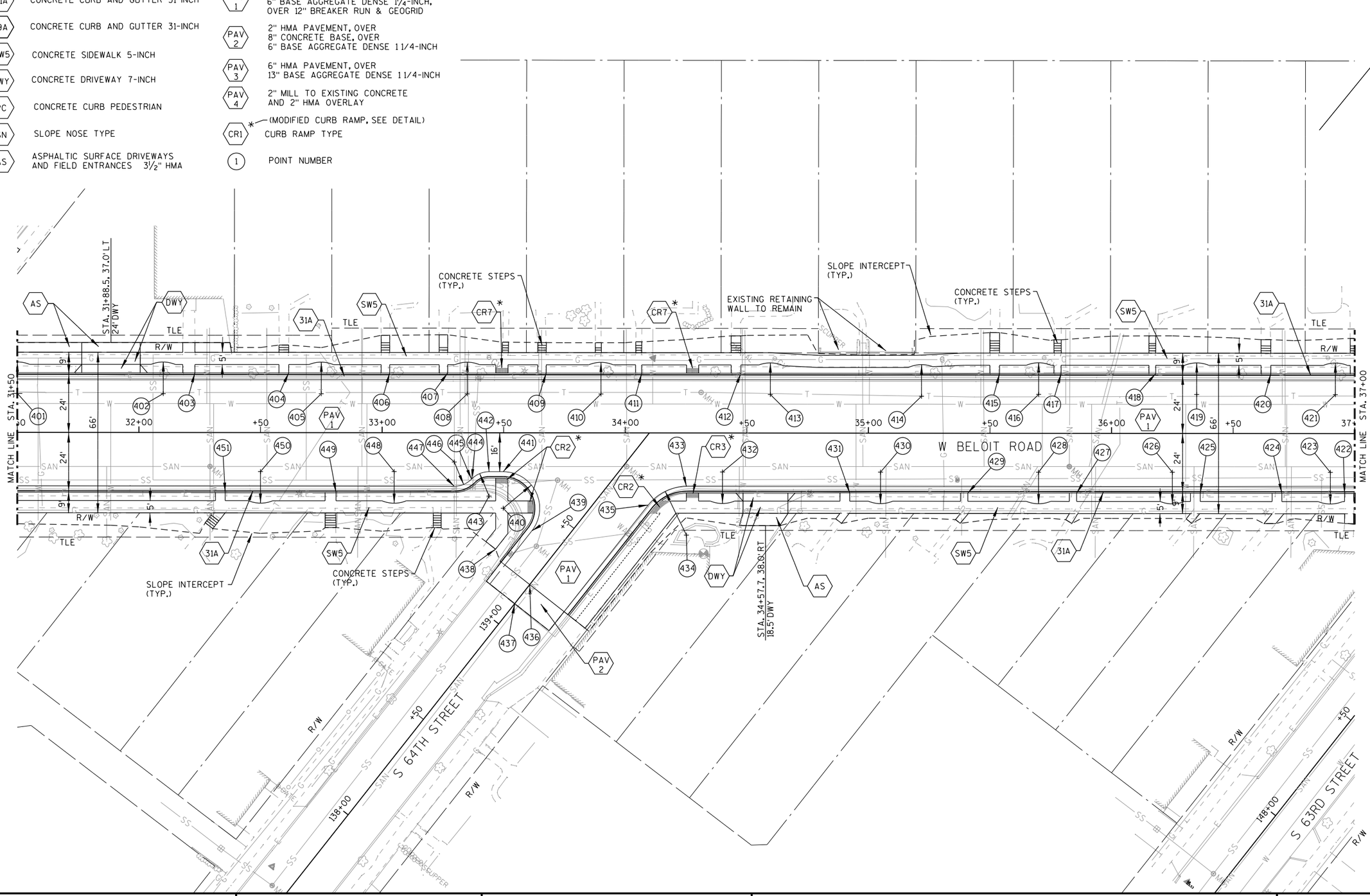
BICYCLE RACK

CONCRETE STEPS (TYP.)

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 25 E

LEGEND

31A	CONCRETE CURB AND GUTTER 31-INCH
19A	CONCRETE CURB AND GUTTER 31-INCH
SW5	CONCRETE SIDEWALK 5-INCH
DWY	CONCRETE DRIVEWAY 7-INCH
PC	CONCRETE CURB PEDESTRIAN
SN	SLOPE NOSE TYPE
AS	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3½" HMA
PAV 1	8" CONCRETE PAVEMENT, OVER 6" BASE AGGREGATE DENSE 1¼-INCH, OVER 12" BREAKER RUN & GEOGRID
PAV 2	2" HMA PAVEMENT, OVER 8" CONCRETE BASE, OVER 6" BASE AGGREGATE DENSE 1 1/4-INCH
PAV 3	6" HMA PAVEMENT, OVER 13" BASE AGGREGATE DENSE 1 1/4-INCH
PAV 4	2" MILL TO EXISTING CONCRETE AND 2" HMA OVERLAY
CR1*	(MODIFIED CURB RAMP, SEE DETAIL) CURB RAMP TYPE
(1)	POINT NUMBER



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 26 E

2

2

LEGEND

31A	CONCRETE CURB AND GUTTER 31-INCH	PAV 1	8" CONCRETE PAVEMENT, OVER 6" BASE AGGREGATE DENSE 1¼-INCH, OVER 12" BREAKER RUN & GEOGRID
19A	CONCRETE CURB AND GUTTER 31-INCH	PAV 2	2" HMA PAVEMENT, OVER 8" CONCRETE BASE, OVER 6" BASE AGGREGATE DENSE 1 1/4-INCH
SW5	CONCRETE SIDEWALK 5-INCH	PAV 3	6" HMA PAVEMENT, OVER 13" BASE AGGREGATE DENSE 1 1/4-INCH
DWY	CONCRETE DRIVEWAY 7-INCH	PAV 4	2" MILL TO EXISTING CONCRETE AND 2" HMA OVERLAY
PC	CONCRETE CURB PEDESTRIAN	CR1 *	(MODIFIED CURB RAMP, SEE DETAIL) CURB RAMP TYPE
SN	SLOPE NOSE TYPE	1	POINT NUMBER
AS	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3½" HMA		

N

W MC GEOCH AVENUE

W BELOIT ROAD

S 63RD STREET

S 62ND STREET

238+00

239+00

149+00

150+00

158+00

159+00

180+00

SLOPE INTERCEPT (TYP.)

CONCRETE STEPS (TYP.)

STA. 39+61.9 24' DWY

STA. 42+13.9, 37.2' LT 24' DWY

MATCH LINE STA. 37+00

MATCH LINE STA. 42+50

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 27	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\021205_pd.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 42

LEGEND

31A	CONCRETE CURB AND GUTTER 31-INCH
19A	CONCRETE CURB AND GUTTER 31-INCH
SW5	CONCRETE SIDEWALK 5-INCH
DWY	CONCRETE DRIVEWAY 7-INCH
PC	CONCRETE CURB PEDESTRIAN
SN	SLOPE NOSE TYPE
AS	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3½" HMA
PAV 1	8" CONCRETE PAVEMENT, OVER 6" BASE AGGREGATE DENSE 1¼-INCH, OVER 12" BREAKER RUN & GEOGRID
PAV 2	2" HMA PAVEMENT, OVER 8" CONCRETE BASE, OVER 6" BASE AGGREGATE DENSE 1 1/4-INCH
PAV 3	6" HMA PAVEMENT, OVER 13" BASE AGGREGATE DENSE 1 1/4-INCH
PAV 4	2" MILL TO EXISTING CONCRETE AND 2" HMA OVERLAY
*	(MODIFIED CURB RAMP, SEE DETAIL)
CR1	CURB RAMP TYPE
1	POINT NUMBER

SLOPE INTERCEPT (TYP)

WATER MAIN BORE PIT LOCATION

WATER MAIN BORE PIT LOCATION

BEGIN PAVEMENT GAP STA. 43+75.00

END PAVEMENT GAP STA. 46+30.00

W BELOIT ROAD

W MOBILE STREET

UNION PACIFIC RAILROAD

TLE

R/W

MATCH LINE STA. 42+50

MATCH LINE STA. 48+00

STA.42+87.50 15' DWY

STA.43+22.7, 42.0' RT 24' DWY

STA.46+64.8, 46.0' LT 24' DWY

STA.47+41.4, 35.0' RT 30' DWY

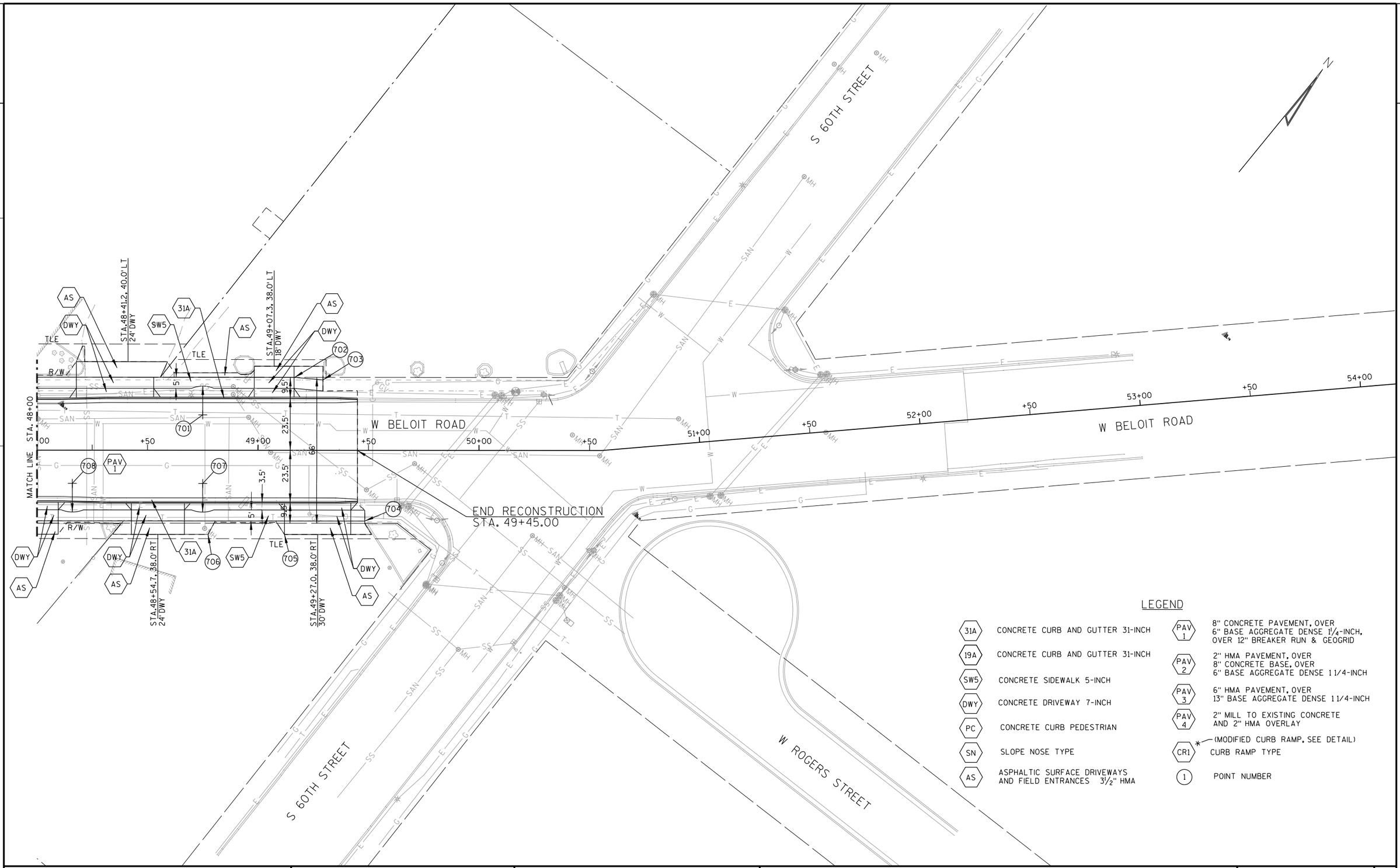
STA.47+56.1 24' DWY

STA.47+98.6, 38.0' RT 22' DWY

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 28	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\021206_pd.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

2



LEGEND

31A	CONCRETE CURB AND GUTTER 31-INCH
19A	CONCRETE CURB AND GUTTER 31-INCH
SW5	CONCRETE SIDEWALK 5-INCH
DWY	CONCRETE DRIVEWAY 7-INCH
PC	CONCRETE CURB PEDESTRIAN
SN	SLOPE NOSE TYPE
AS	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES 3½" HMA
PAV 1	8" CONCRETE PAVEMENT, OVER 6" BASE AGGREGATE DENSE 1¼-INCH, OVER 12" BREAKER RUN & GEOGRID
PAV 2	2" HMA PAVEMENT, OVER 8" CONCRETE BASE, OVER 6" BASE AGGREGATE DENSE 1 1/4-INCH
PAV 3	6" HMA PAVEMENT, OVER 13" BASE AGGREGATE DENSE 1 1/4-INCH
PAV 4	2" MILL TO EXISTING CONCRETE AND 2" HMA OVERLAY
CR1 *	(MODIFIED CURB RAMP, SEE DETAIL) CURB RAMP TYPE
1	POINT NUMBER

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN DETAIL	SHEET 29	E

2

POINT NUMBER	STATION	OFFSET		DESCRIPTION
101	18+37.26	79.32	RT	SAWCUT & MATCH AT BUTT JOINT
102	17+25.51	5.98	LT	SAWCUT & MATCH AT BUTT JOINT
103	17+25.47	21.50	LT	BEGIN CURB, MATCH EXISTING
104	18+09.62	28.55	RT	SAWCUT & END NEW PAVEMENT
105	17+70.36	2.40	RT	SAWCUT & END NEW PAVEMENT
106	17+70.36	21.50	LT	SAWCUT & END NEW PAVEMENT
107	18+39.46	23.00	LT	BEGIN CURB TAPER
108	18+44.46	21.50	LT	BEGIN 20' RADIUS
109	18+44.46	41.50	LT	20' RADIUS
110	100+22.91	17.89	LT	END 20' RADIUS
111	100+86.00	17.89	LT	BEGIN CURB TAPER
112	100+96.86	0.00	RT	SAWCUT & END NEW PAVEMENT
113	100+83.87	18.11	RT	BEGIN 20' RADIUS
114	19+41.89	42.00	LT	20' RADIUS
115	19+41.89	22.00	LT	END 20' RADIUS
116	18+57.34	22.00	RT	END 100' RADIUS
117	18+57.34	122.00	RT	100' RADIUS
118	18+49.61	22.30	RT	BEGIN 100' RADIUS
119	18+18.53	24.71	RT	END 15' RADIUS
120	18+19.69	39.66	RT	15' RADIUS
121	18+10.64	51.62	RT	BEGIN 15' RADIUS
122	18+38.11	69.92	RT	BEGIN CURB TAPER
123	18+45.57	75.45	RT	BEGIN SIDEWALK

POINT NUMBER	STATION	OFFSET		DESCRIPTION
201	21+42.86	35.49	LT	DRIVEWAY PI
202	23+82.22	34.65	LT	DRIVEWAY PI
203	24+02.37	32.00	LT	PEDESTRIAN CURB PI
204	24+26.31	32.00	LT	PEDESTRIAN CURB PI
205	24+27.79	34.73	LT	DRIVEWAY PI
206	24+41.68	36.74	LT	DRIVEWAY PI
207	24+48.04	27.00	LT	BEGIN SIDEWALK TAPER
208	24+58.17	28.00	LT	END SIDEWALK TAPER
209	25+40.00	16.00	LT	CENTER OF 13' R SIDEWALK ARC
210	25+45.00	32.50	RT	BEGIN PEDESTRIAN CURB
211	25+23.91	24.58	RT	4' CARRIAGE WALK
212	25+14.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
213	24+64.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
214	24+53.95	24.58	RT	3.5' CARRIAGE WALK
215	24+50.00	33.00	RT	END SIDEWALK TAPER
216	24+35.00	32.00	RT	BEGIN SIDEWALK TAPER
217	24+25.00	32.00	RT	END SIDEWALK TAPER
218	24+05.00	33.00	RT	BEGIN SIDEWALK TAPER
219	23+95.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
220	23+81.55	24.58	RT	4' CARRIAGE WALK
221	23+28.38	45.44	RT	DRIVEWAY PI
222	23+15.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
223	22+94.11	22.00	RT	END 10' RADIUS
224	22+94.11	12.00	RT	10' RADIUS
225	22+87.04	19.07	RT	BEGIN 10' RADIUS
226	22+86.89	18.93	RT	END 10' RADIUS
227	22+79.82	26.00	RT	10' RADIUS
228	22+79.82	16.00	RT	BEGIN 10' RADIUS
229	22+73.96	16.00	RT	END 20' RADIUS
230	22+73.96	36.00	RT	20' RADIUS
231	109+79.84	12.50	RT	BEGIN 20' RADIUS
232	109+21.20	24.70	RT	BEGIN SIDEWALK
233	109+21.20	0.00	RT	SAWCUT & END NEW PAVEMENT
234	109+11.20	0.00	LT	SAWCUT & MATCH AT BUTT JOINT
235	109+17.99	25.18	LT	END SIDEWALK
236	109+38.56	12.50	LT	END 15' RADIUS
237	22+01.31	31.00	RT	15' RADIUS
238	22+01.31	16.00	RT	BEGIN 15' RADIUS
239	21+95.45	16.00	RT	END 10' RADIUS
240	21+95.45	26.00	RT	10' RADIUS
241	21+88.38	18.93	RT	BEGIN 10' RADIUS
242	21+88+24	19.07	RT	END 10' RADIUS
243	21+81.16	12.00	RT	10' RADIUS
244	21+81.16	22.00	RT	BEGIN 10' RADIUS
245	21+40.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
246	20+80.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
247	20+20.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC

POINT NUMBER	STATION	OFFSET		DESCRIPTION
301	26+00.00	16.00	LT	CENTER OF 13' R SIDEWALK ARC
302	26+48.64	22.00	LT	BEGIN 20' RADIUS
303	26+48.64	42.00	LT	20' RADIUS
304	220+27.48	13.00	LT	END 20' RADIUS
305	220+58.00	13.00	LT	BEGIN 15' RADIUS
306	220+58.00	28.00	LT	15' RADIUS
307	179+71.59	13.00	RT	END 15' RADIUS
308	179+61.11	26.40	RT	END SIDEWALK
309	179+34.99	0.00	RT	SAWCUT & MATCH AT BUTT JOINT
310	179+45.00	0.00	RT	SAWCUT & END NEW PAVEMENT
311	179+72.44	13.00	LT	BEGIN 15' RADIUS
312	221+14.00	28.00	LT	15' RADIUS
313	221+14.00	13.00	LT	END 15' RADIUS
314	221+33.85	0.00	LT	SAWCUT & MATCH AT BUTT JOINT
315	221+23.85	0.00	LT	SAWCUT & END NEW PAVEMENT
316	221+15.58	31.81	RT	END SIDEWALK
317	220+69.11	13.00	RT	BEGIN 15' RADIUS
318	27+22.32	37.00	LT	15' RADIUS
319	27+22.32	22.00	LT	END 15' RADIUS
320	27+73.92	33.00	LT	SIDEWALK PI
321	27+90.00	16.00	LT	CENTER OF 13' R SIDEWALK ARC
322	27+98.41	33.00	LT	SIDEWALK PI
323	28+45.00	16.00	LT	CENTER OF 13' R SIDEWALK ARC
324	28+59.54	24.58	LT	4' CARRIAGE WALK
325	29+00.00	16.00	LT	CENTER OF 13' R SIDEWALK ARC
326	29+50.52	24.58	LT	3.5' CARRIAGE WALK
327	29+60.00	16.00	LT	CENTER OF 13' R SIDEWALK ARC
328	30+45.14	22.00	LT	BEGIN 20' RADIUS
329	30+45.14	42.00	LT	20' RADIUS
330	230+23.52	18.00	LT	END 20' RADIUS
331	231.15.07	0.00	RT	SAWCUT & MATCH AT BUTT JOINT
332	230.95.07	0.00	LT	SAWCUT & END NEW PAVEMENT
333	230.88.14	29.00	RT	BEGIN SIDEWALK
334	230+73.14	18.00	RT	BEGIN 15' RADIUS
335	31+31.62	37.00	LT	15' RADIUS
336	31+31.62	22.00	LT	END 15' RADIUS
337	31+37.17	24.58	RT	5' CARRIAGE WALK
338	30+70.25	22.00	RT	END 20' RADIUS
339	30+70.25	42.00	RT	20' RADIUS
340	129+72.91	13.50	RT	BEGIN 20' RADIUS
341	129+18.80	19.75	RT	3' CARRIAGE WALK
342	128+76.39	24.75	RT	BEGIN SIDEWALK
343	128+71.32	0.00	LT	SAWCUT & END NEW PAVEMENT
344	128+11.91	13.00	LT	END CURB
345	129+30.53	13.50	LT	END 15' RADIUS
346	29+95.31	37.00	RT	15' RADIUS
347	29+95.31	22.00	RT	BEGIN 15' RADIUS
348	29+40.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
349	28+80.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
350	28+15.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
351	27+55.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
352	26+90.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
353	26+68.49	22.00	RT	END 20' RADIUS
354	26+68.49	42.00	RT	20' RADIUS
355	119+72.58	13.00	RT	BEGIN 20' RADIUS
356	119+38.04	26.00	RT	BEGIN SIDEWALK
357	119+10.00	0.00	LT	SAWCUT & END NEW PAVEMENT
358	119+00.00	0.00	RT	SAWCUT & MATCH AT BUTT JOINT
359	119+05.00	25.00	LT	END SIDEWALK
350	119+30.50	13.00	LT	END 15' RADIUS
351	25+94.55	37.00	RT	15' RADIUS
352	25+94.55	22.00	RT	BEGIN 15' RADIUS
353	25+94.55	32.50	RT	END PEDESTRIAN CURB
354	25+70.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC

POINT NUMBER	STATION	OFFSET		DESCRIPTION
401	31+50.00	26.00	LT	CENTER OF 13' R SIDEWALK ARC
402	32+10.00	26.00	LT	CENTER OF 13' R SIDEWALK ARC
403	32+23.00	24.58	LT	5' CARRIAGE WALK
404	32+61.58	24.58	LT	4' CARRIAGE WALK
405	32+75.00	26.00	LT	CENTER OF 13' R SIDEWALK ARC
406	33+03.11	24.58	LT	3.5' CARRIAGE WALK
407	33+26.95	24.58	LT	3.5' CARRIAGE WALK
408	33+35.00	26.00	LT	CENTER OF 13' R SIDEWALK ARC
409	33+67.50	24.58	LT	3.5' CARRIAGE WALK
410	33+90.00	26.00	LT	CENTER OF 13' R SIDEWALK ARC
411	34+06.75	24.58	LT	2.5' CARRIAGE WALK
412	34+47.51	24.58	LT	4' CARRIAGE WALK
413	34+59.66	26.00	LT	CENTER OF 13' R SIDEWALK ARC
414	35+21.82	26.00	LT	CENTER OF 13' R SIDEWALK ARC
415	35+53.93	24.62	LT	4' CARRIAGE WALK
416	35+70.00	26.00	LT	CENTER OF 13' R SIDEWALK ARC
417	35+79.25	24.58	LT	3' CARRIAGE WALK
418	36+18.11	24.58	LT	2.75' CARRIAGE WALK
419	36+35.00	26.00	LT	CENTER OF 13' R SIDEWALK ARC
420	36+65.44	24.58	LT	4' CARRIAGE WALK
421	36+92.00	26.00	LT	CENTER OF 13' R SIDEWALK ARC
422	36+95.84	24.58	RT	3.75' CARRIAGE WALK
423	36+90.00	26.00	RT	CENTER OF 13' R SIDEWALK ARC
424	36.70.04	24.58	RT	4' CARRIAGE WALK
425	36+36.46	24.58	RT	4' CARRIAGE WALK
426	36+25.00	26.00	RT	CENTER OF 13' R SIDEWALK ARC
427	35+85.64	24.58	RT	3' CARRIAGE WALK
428	35+70.00	26.00	RT	CENTER OF 13' R SIDEWALK ARC
429	35+40.89	24.58	RT	3' CARRIAGE WALK
430	35+05.00	29.00	RT	CENTER OF 13' R SIDEWALK ARC
431	34+92.34	24.58	RT	4' CARRIAGE WALK
432	34+40.00	26.00	RT	CENTER OF 13' R SIDEWALK ARC
433	34+25.19	22.00	RT	END 20 RADIUS
434	34+25.19	42.00	RT	20' RADIUS
435	139+76.46	18.00	RT	BEGIN 20' RADIUS
436	139+20.60	0.00	LT	SAWCUT & END NEW PAVEMENT
437	139+10.60	0.00	LT	SAWCUT & MATCH AT BUTT JOINT
438	139+23.32	20.09	LT	END SIDEWALK
439	139+38.50	13.00	LT	END 15 RADIUS
440	33+49.85	31.00	RT	15' RADIUS
441	33+49.85	16.00	RT	BEGIN 15' RADIUS
442	33+43.99	16.00	RT	END 10 RADIUS
443	33+43.99	26.00	RT	10' RADIUS
444	33+36.92	18.93	RT	BEGIN 10' RADIUS
445	33+36.78	19.07	RT	END 10 RADIUS
446	33+29.70	12.00	RT	10' RADIUS
447	33+29.70	22.00	RT	BEGIN 10' RADIUS
448	33+05.00	26.00	RT	CENTER OF 13' R SIDEWALK ARC
449	32+81.10	24.58	RT	4.5' CARRIAGE WALK
450	32+50.00	26.00	RT	CENTER OF 13' R SIDEWALK ARC
451	32+35.50	24.58	RT	4' CARRIAGE WALK

NOTE:
ALL RADII AND STATION/OFFSET DIMENSIONS
ARE MEASURED TO THE FLANGE LINE OF CURB
AND GUTTER UNLESS OTHERWISE NOTED.

POINT NUMBER	STATION	OFFSET		DESCRIPTION
501	37+43.75	24.58	LT	4' CARRIAGE WALK
502	37+55.00	16.00	LT	CENTER OF 13' R SIDEWALK ARC
503	37+74.01	24.58	LT	3.5' CARRIAGE WALK
504	38+18.06	24.58	LT	3.75' CARRIAGE WALK
505	38+24.00	16.00	LT	CENTER OF 13' R SIDEWALK ARC
506	38+61.45	24.58	LT	4' CARRIAGE WALK
507	38+80.00	16.00	LT	CENTER OF 13' R SIDEWALK ARC
508	39+01.16	24.58	LT	3.75' CARRIAGE WALK
509	39+14.98	22.00	LT	BEGIN 10' RADIUS
510	39+14.98	12.00	LT	10' RADIUS
511	39+22.05	19.07	LT	END 10' RADIUS
512	39+22.20	18.93	LT	BEGIN 10' RADIUS
513	39+29.27	26.00	LT	10' RADIUS
514	39+29.27	16.00	LT	END 10' RADIUS
515	39+27.40	28.94	LT	BEGIN 10' RADIUS
516	39+33.31	37.00	LT	10' RADIUS
517	39+33.31	27.00	LT	END 10' RADIUS
518	39+55.12	16.00	LT	BEGIN 25' RADIUS
519	39+55.12	41.00	LT	25' RADIUS
520	239+32.53	16.00	RT	END 25' RADIUS
521	239+26.86	0.00	RT	SAWCUT & END NEW PAVEMENT
522	239+54.24	27.00	LT	BEGIN SIDEWALK
523	239+71.36	16.00	LT	BEGIN 20' RADIUS
524	40+41.36	42.00	LT	20' RADIUS
525	40+41.36	22.00	LT	END 20' RADIUS
526	40+46.36	33.00	LT	BEGIN SIDEWALK TAPER
527	40+61.36	32.00	LT	END SIDEWALK TAPER
528	40+55.00	15.00	LT	CENTER OF 13' R SIDEWALK ARC
529	41+15.00	15.00	LT	CENTER OF 13' R SIDEWALK ARC
530	41+75.00	15.00	LT	CENTER OF 13' R SIDEWALK ARC
531	42+32.00	15.00	LT	CENTER OF 13' R SIDEWALK ARC
532	42+35.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
533	41+85.86	22.00	RT	END 20' RADIUS
534	41+85.86	42.00	RT	20' RADIUS
535	159+74.59	15.60	RT	BEGIN 20' RADIUS
536	159+54.68	26.18	RT	BEGIN SIDEWALK
537	159+19.83	0.00	RT	SAWCUT & END NEW PAVEMENT
538	159+09.83	0.00	RT	SAWCUT & MATCH AT BUTT JOINT
539	159+26.07	27.33	LT	END SIDEWALK
540	159+35.68	16.50	LT	END 15' RADIUS
541	41+09.08	31.00	RT	15' RADIUS
542	41+09.08	16.00	RT	BEGIN 15' RADIUS
543	41+03.22	16.00	RT	END 10' RADIUS
544	41+03.22	26.00	RT	10' RADIUS
545	40+96.15	18.93	RT	BEGIN 10' RADIUS
546	40+96.01	19.07	RT	END 10' RADIUS
547	40+88.94	12.00	RT	10' RADIUS
548	40+88.94	22.00	RT	BEGIN 10' RADIUS
549	40+55.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
550	39+96.12	24.58	RT	3' CARRIAGE WALK
551	39+85.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
552	39+60.36	45.31	RT	DRIVEWAY PI
553	39+20.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
554	39+07.15	24.58	RT	3' CARRIAGE WALK
555	38+85.03	24.58	RT	3' CARRIAGE WALK
556	38+65.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
557	38+25.12	22.00	RT	END 10' RADIUS
558	38+25.12	12.00	RT	10' RADIUS
559	38+18.04	19.07	RT	BEGIN 10' RADIUS
560	38+17.90	18.93	RT	END 10' RADIUS
561	38+10.83	26.00	RT	10' RADIUS
562	38+10.83	16.00	RT	BEGIN 10' RADIUS
563	38+04.97	16.00	RT	END 20' RADIUS
564	38+04.97	36.00	RT	20' RADIUS
565	149+80.16	13.00	RT	BEGIN 20' RADIUS
566	149+21.96	0.00	RT	SAWCUT & END NEW PAVEMENT
567	149+11.96	0.00	RT	SAWCUT & MATCH AT BUTT JOINT
568	149+22.83	26.49	LT	END SIDEWALK
569	149+38.51	13.00	LT	END 15' RADIUS
570	37+31.28	31.00	RT	15' RADIUS
571	37+31.28	16.00	RT	BEGIN 15' RADIUS
572	37+25.42	16.00	RT	END 10' RADIUS
573	37+25.42	26.00	RT	10' RADIUS
574	37+18.35	18.93	RT	BEGIN 10' RADIUS
575	37+18.21	19.07	RT	END 10' RADIUS
576	37+11.14	12.00	RT	10' RADIUS
577	37+11.14	22.00	RT	BEGIN 10' RADIUS

POINT NUMBER	STATION	OFFSET		DESCRIPTION
601	42+90.00	15.00	LT	CENTER OF 13' R SIDEWALK ARC
602	43+50.00	22.00	LT	CURB & GUTTER/PAVEMENT ANGLE POINT
603	43+75.00	21.25	LT	END CURB & GUTTER
604	43+50.00	32.00	LT	END CONCRETE SIDEWALK
605	43+05.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
606	43+50.00	22.00	RT	CURB & GUTTER/PAVEMENT ANGLE POINT
607	43+75.00	21.50	RT	END CURB & GUTTER
608	42+86.93	43.20	RT	MATCH EXISTING ASPHALT DRIVEWAY
609	42+99.91	42.00	RT	MATCH CONCRETE PARKING LOT
610	43+50.00	42.00	RT	MATCH CONCRETE PARKING LOT
611	43+63.11	35.57	RT	MATCH CONCRETE PARKING LOT
612	46+40.41	31.93.	LT	END ASPHALT WALK / MATCH EX. SIDWALK
613	46+50.00	33.00	LT	END CONCRETE SIDEWALK
614	46+30.00	21.75	LT	END CURB & GUTTER
615	46+50.00	21.00	LT	CURB & GUTTER/PAVEMENT ANGLE POINT
616	47+10.00	16.00	LT	CENTER OF 13' R SIDEWALK ARC
617	47+31.16	45.00	LT	MATCH EXISTING ASPHALT PARKING LOT
618	47+54.66	45.00	LT	MATCH EXISTING ASPHALT PARKING LOT
619	47+56.01	46.59	LT	MATCH EXISTING CONCRETE DRIVEWAY
620	47+68.75	36.68	LT	MATCH EXISTING CONCRETE DRIVEWAY
621	47+90.00	16.00	LT	CENTER OF 13' R SIDEWALK ARC
622	46+30.00	21.50	RT	END CURB & GUTTER
623	46+50.00	21.00	RT	CURB & GUTTER/PAVEMENT ANGLE POINT
624	46+40.41	30.64	RT	END ASPHALT WALK / MATCH EX. SIDWALK
625	46+50.00	32.00	RT	END CONCRETE SIDEWALK
626	47+00.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC
627	47+65.00	16.00	RT	CENTER OF 13' R SIDEWALK ARC

POINT NUMBER	STATION	OFFSET		DESCRIPTION
701	48+75.00	16.00	LT	CENTER OF 13' R SIDEWALK ARC
702	49+16.54	33.00	LT	BEGIN SIDEWALK TAPER
703	49+29.38	31.83	LT	END SIDEWALK TAPER, MATCH EXISTING
704	49+48.30	32.00	RT	END SIDEWALK
705	49+12.00	38.05	RT	DRIVEWAY PI
706	48+77.42	38.04	RT	DRIVEWAY PI
707	48+75.00	15.00	RT	CENTER OF 13' R SIDEWALK ARC
708	48+16.00	15.00	RT	CENTER OF 13' R SIDEWALK ARC

NOTE:
ALL RADII AND STATION/OFFSET DIMENSIONS ARE MEASURED TO THE FLANGE LINE OF CURB AND GUTTER UNLESS OTHERWISE NOTED.

2

2

W BELOIT ROAD

W LINCOLN AVENUE

17+00

+50

18+00

18+13.20
33.44 RT
154.60

18+09.56
31.53 RT
154.31

18+07.76
30.58 RT
154.39

18+05.43
35.01 RT
154.36

18+07.23
35.95 RT
154.28

18+10.88
37.86 RT
154.57

18+14.03
41.29 RT
154.62

18+17.42
44.96 RT
154.97

18+17.07
32.94 RT
154.62

18+22.03
32.30 RT
154.97

18+26.99
31.67 RT
155.10

18+17.71
37.90 RT
154.70

18+22.67
37.26 RT
155.05

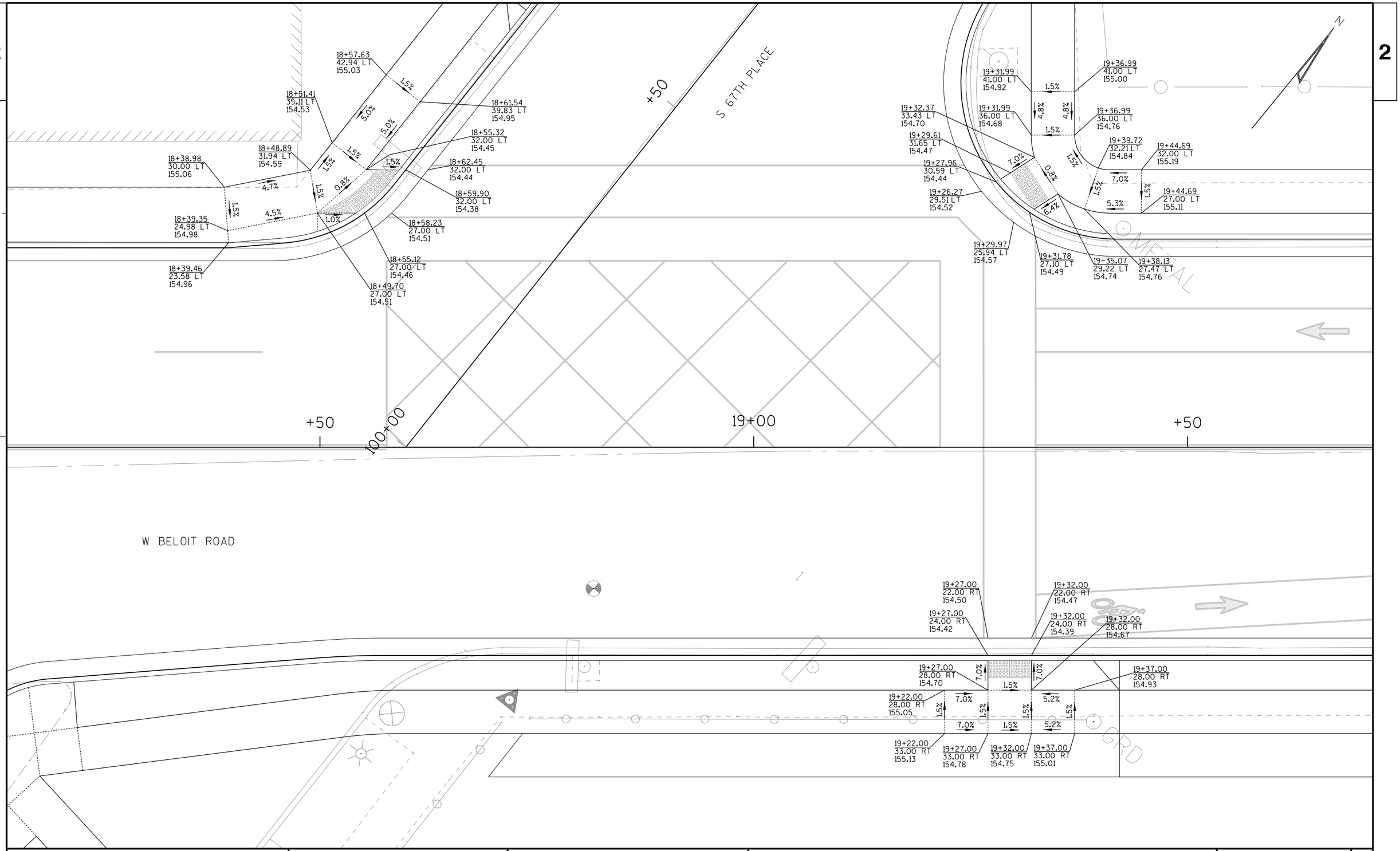
18+27.63
36.63 RT
155.18

18+21.09
41.57 RT
155.05

7.0%
0.5%
0.6%
1.5%
2.6%

PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CURB RAMP DETAIL	SHEET 32	E

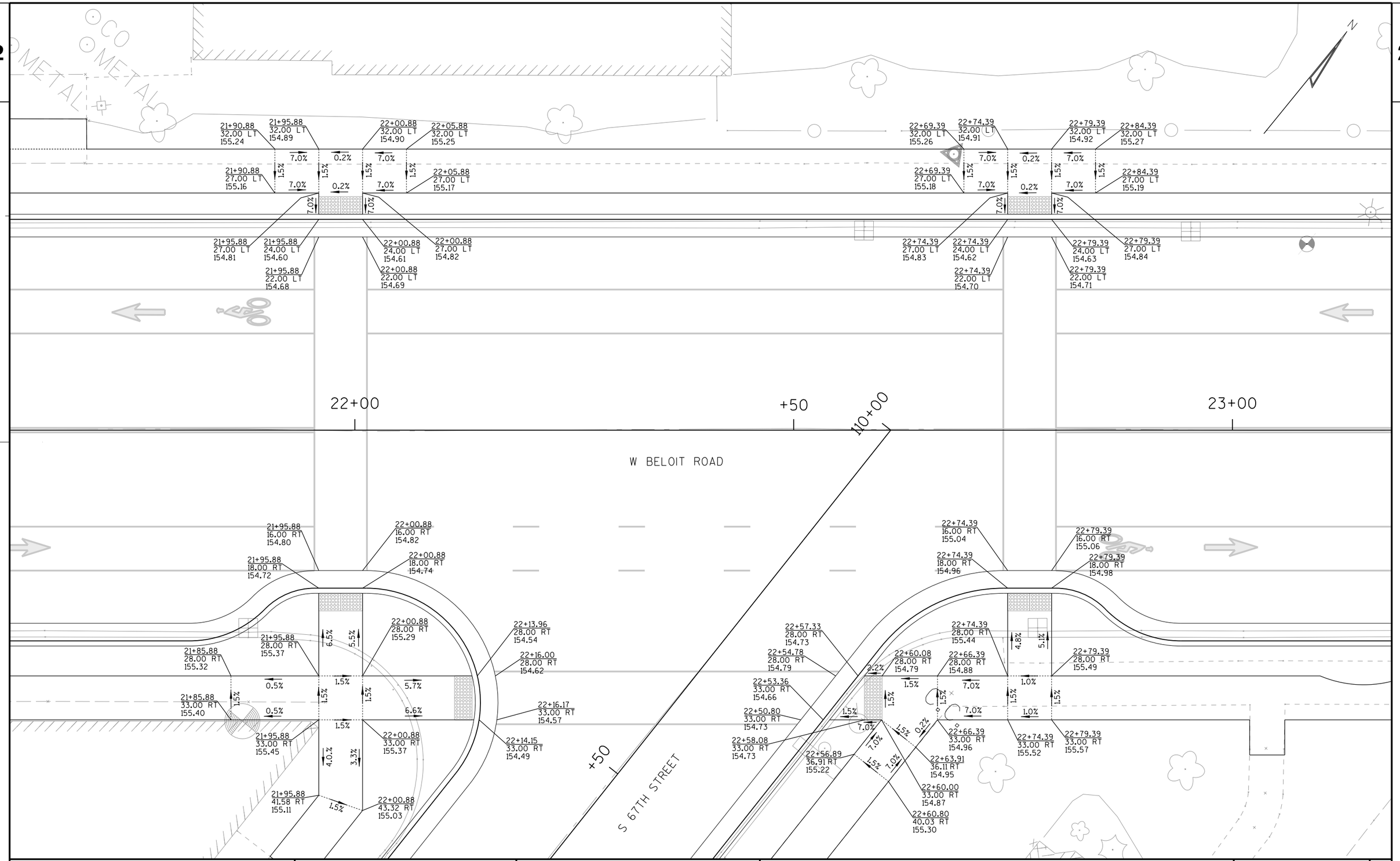
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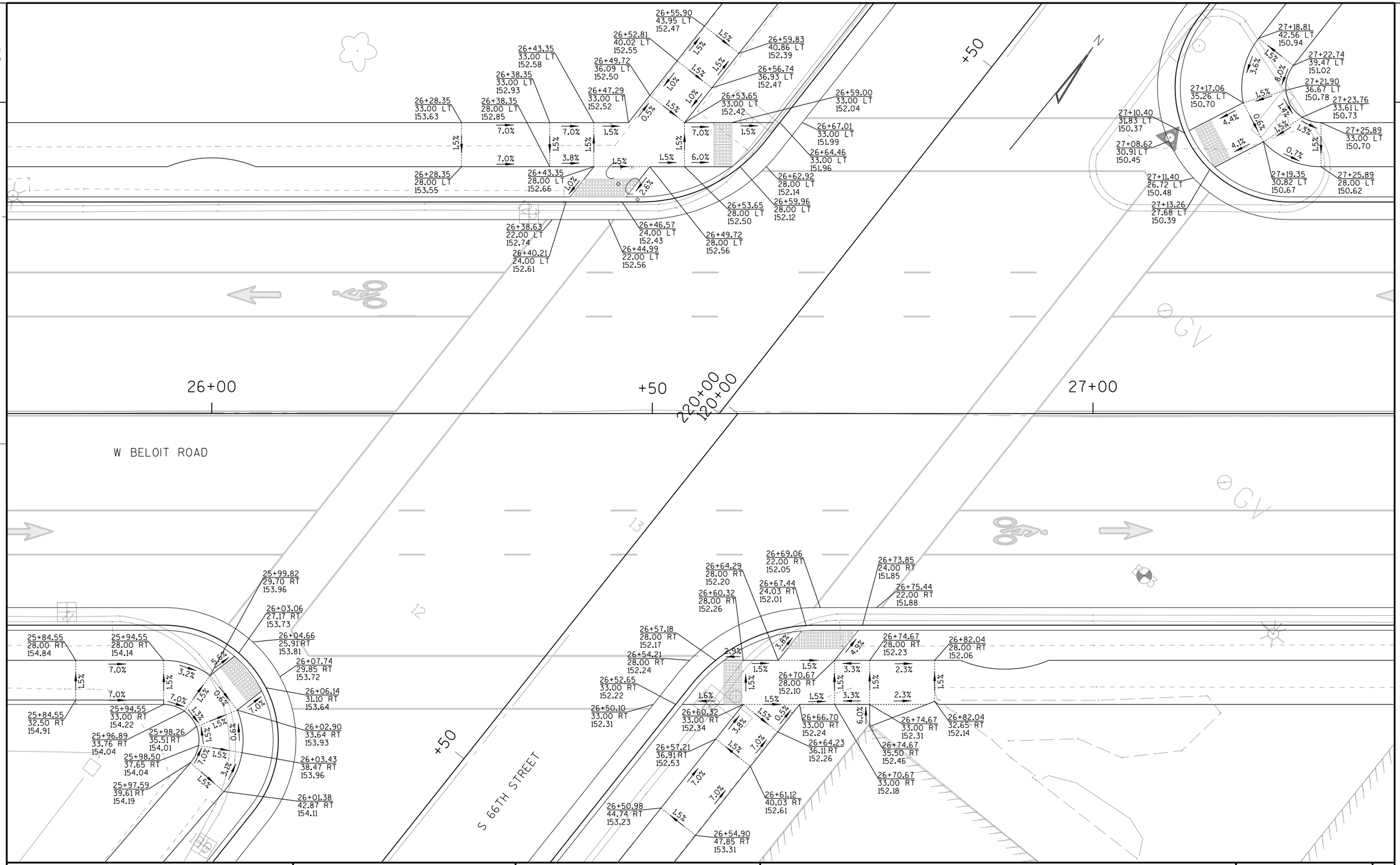
PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CURB RAMP DETAIL	SHEET 33	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\021302_cr.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 sf / in.
WISDOT/CADDS SHEET 42

2

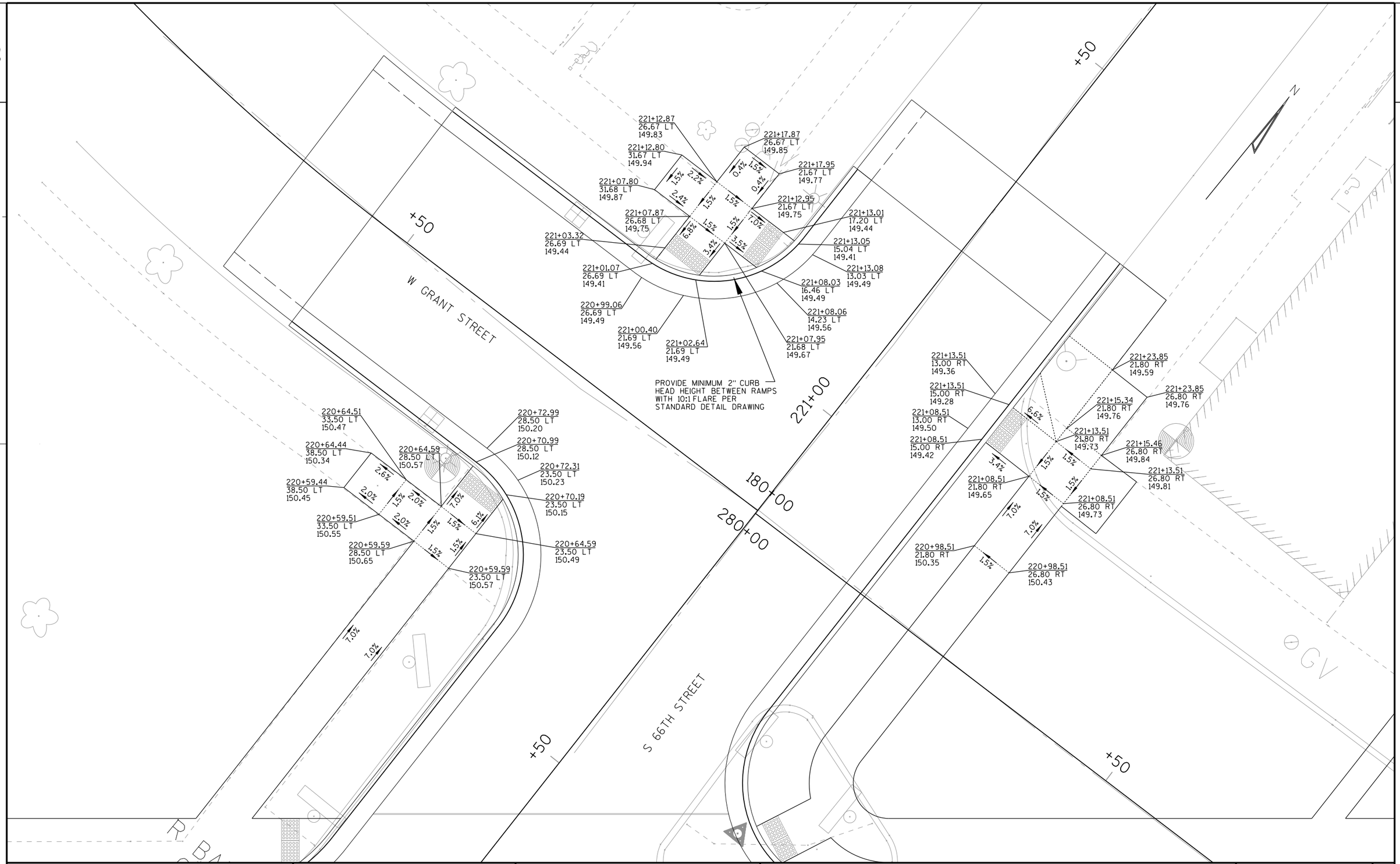


PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CURB RAMP DETAIL	SHEET 34	E



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CURB RAMP DETAIL	SHEET 35	E

2



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CURB RAMP DETAIL	SHEET 36 E

2

2

281+00

28+00

+50

29+00

W BELOIT ROAD

27+95.37
22.00 RT
147.51

28+00.37
22.00 RT
147.30

28+08.61
22.00 RT
147.02

28+22.03
22.00 RT
146.57

28+36.03
22.00 RT
146.09

28+41.03
22.00 RT
145.92

27+95.37
28.00 RT
148.07

28+00.37
28.00 RT
147.74

28+08.61
28.00 RT
147.61

28+22.03
28.00 RT
146.67

28+36.03
28.00 RT
146.19

28+41.03
28.00 RT
146.48

28+88.79
28.00 RT
145.07

28+93.79
28.00 RT
144.81

28+99.79
28.00 RT
144.72

29+04.79
28.00 RT
144.53

6.6%
1.5%
7.0%
5.8%
5.2%
1.5%
3.8%

27+95.37
33.00 RT
148.33

28+00.37
33.00 RT
147.82

28+05.58
36.98 RT
147.77

28+08.61
33.00 RT
147.69

28+21.97
33.00 RT
146.75

28+36.00
33.00 RT
146.27

28+41.03
33.00 RT
146.56

28+88.79
33.00 RT
145.15

28+93.79
33.00 RT
144.89

28+99.79
33.00 RT
144.80

29+04.79
33.00 RT
144.61

0.8%

28+18.89
40.84 RT
146.79

28+15.76
44.74 RT
146.87

28+30.02
49.33 RT
146.62

28+38.06
55.47 RT
146.05

28+26.89
53.24 RT
146.70

28+35.02
59.44 RT
146.19

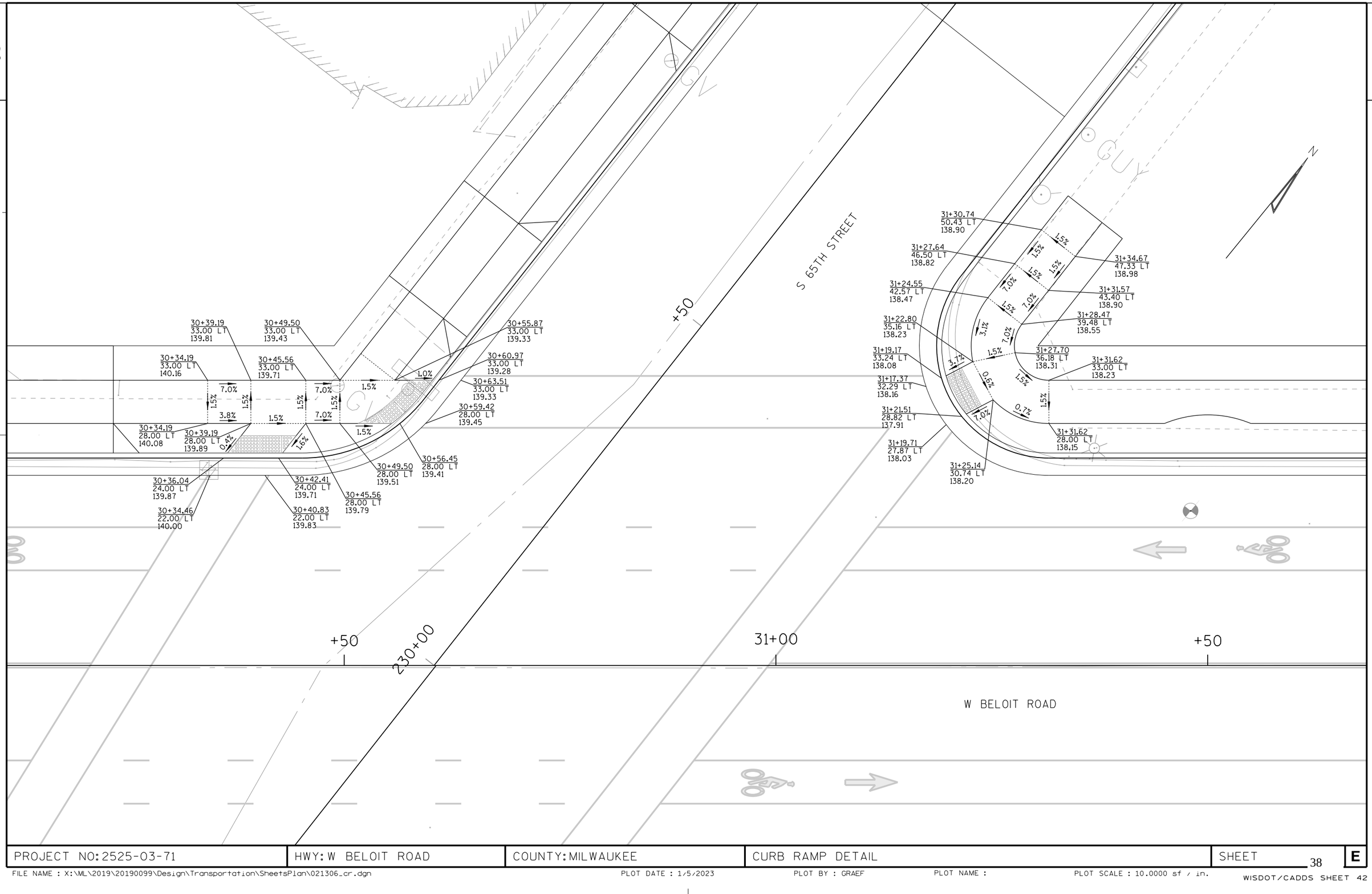
1.2%
5.7%
5.1%

N

PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CURB RAMP DETAIL	SHEET 37	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\021305a_cr.dgn | PLOT DATE : 1/5/2023 | PLOT BY : GRAEF | PLOT NAME : | PLOT SCALE : 10.0000 sf / in.

2



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CURB RAMP DETAIL	SHEET 38	E

2

30+00

+50

230+00

31+00

W BELOIT ROAD

S 65TH STREET

+50

129+00

140.38

140.67

140.83

140.22

141.21

72

30+01.42
30.40 RT
140.97

30+06.34
26.83 RT
140.83

30+04.71
28.02 RT
140.75

30+09.07
31.03 RT
140.73

30+07.41
32.24 RT
140.65

30+04.01
34.70 RT
140.94

30+02.10
42.91 RT
140.88

29+85.31
28.00 RT
141.88

29+95.31
28.00 RT
141.18

29+85.31
33.00 RT
141.96

29+95.31
33.00 RT
141.26

29+98.03
34.06 RT
141.05

29+98.33
39.63 RT
140.96

29+94.83
43.65 RT
141.23

29+98.60
46.93 RT
141.15

30+74.84
22.00 RT
139.11

30+73.27
24.00 RT
139.07

30+79.63
24.00 RT
138.91

30+81.20
22.00 RT
138.95

30+66.19
28.00 RT
139.39

30+58.93
28.00 RT
139.25

30+70.13
28.00 RT
139.11

30+76.49
28.00 RT
139.01

30+55.97
28.00 RT
139.35

30+54.43
33.00 RT
139.29

30+81.49
28.00 RT
139.36

30+51.88
33.00 RT
139.38

30+59.83
33.00 RT
139.37

30+66.19
33.00 RT
139.47

30+70.13
33.00 RT
139.19

30+76.49
33.00 RT
139.09

30+82.25
34.59 RT
139.44

30+56.74
36.93 RT
139.72

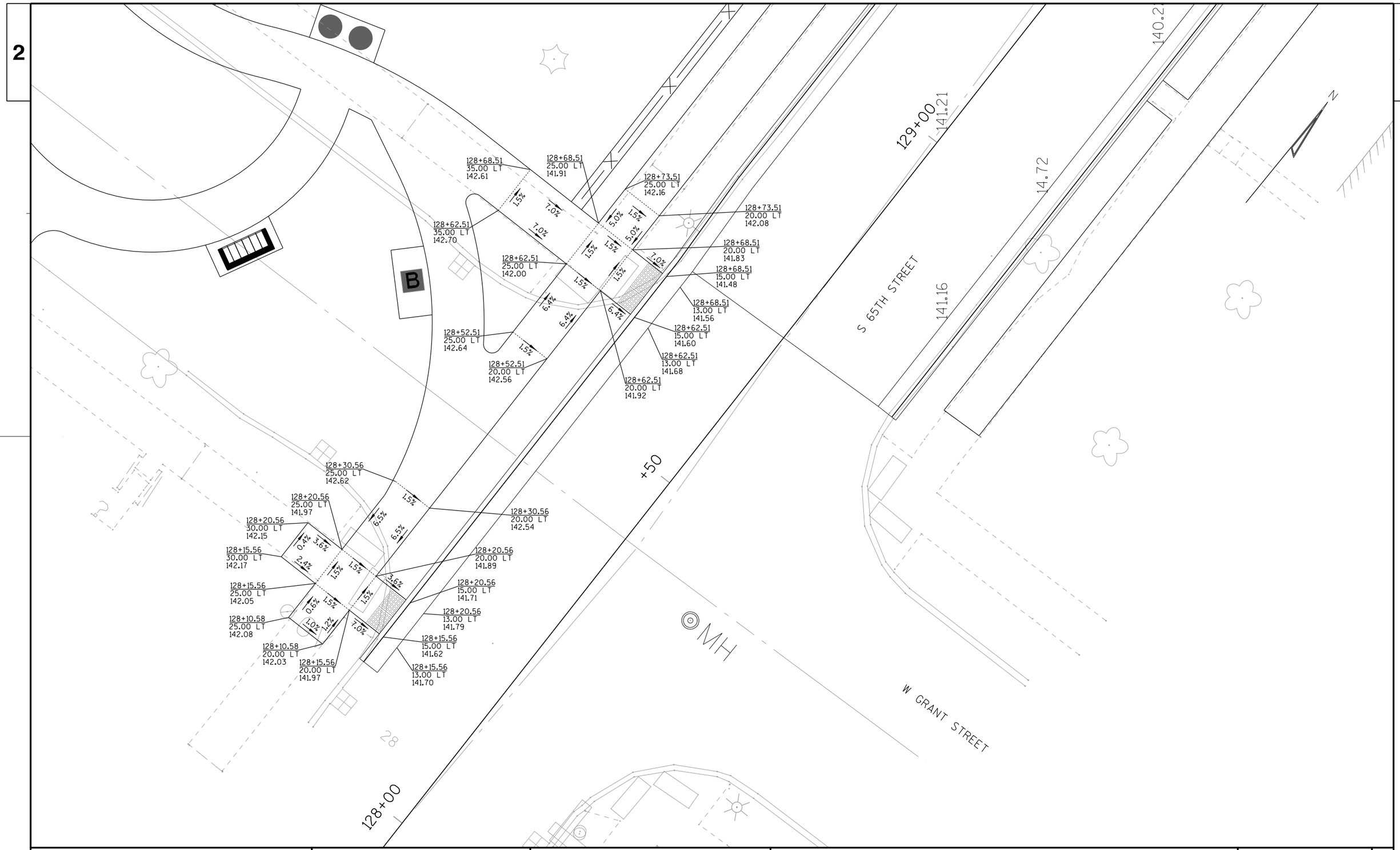
30+63.76
36.09 RT
139.45

30+53.65
40.86 RT
139.94

30+60.67
40.02 RT
139.80

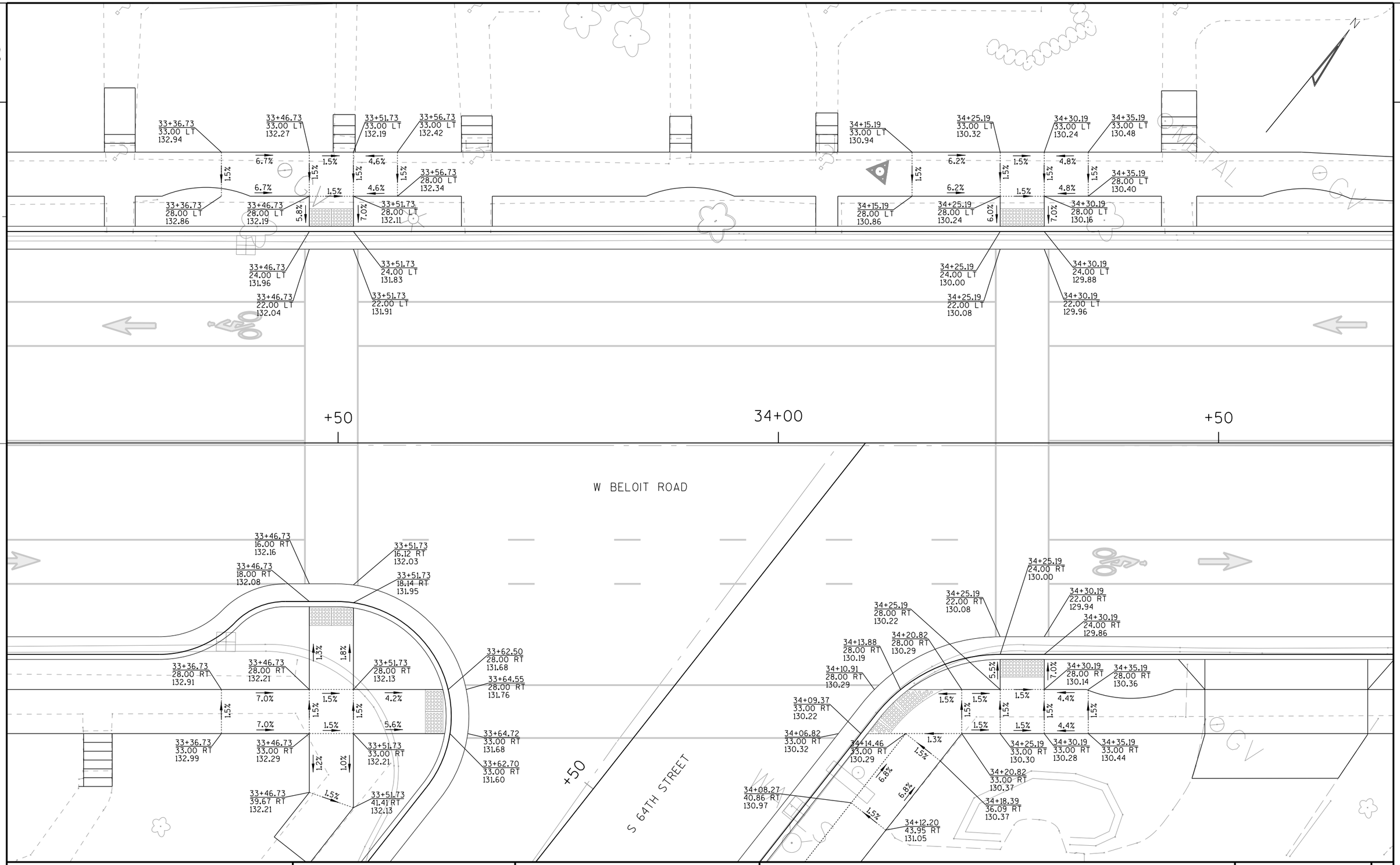
30+57.58
43.95 RT
140.02

PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CURB RAMP DETAIL	SHEET 39	E



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CURB RAMP DETAIL	SHEET 40	E

2



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CURB RAMP DETAIL	SHEET 41	E

2

2

37+00

+50

150+00

38+00

W BELOIT ROAD

S 63RD STREET

37+15.85
33.00 LT
124.03

37+25.85
33.00 LT
123.41

37+30.85
33.00 LT
123.33

37+35.85
33.00 LT
123.57

37+35.85
28.00 LT
123.49

37+15.85
28.00 LT
123.95

37+25.85
28.00 LT
123.33

37+30.85
28.00 LT
123.25

37+25.85
24.00 LT
123.08

37+30.85
24.00 LT
122.97

37+25.85
22.00 LT
123.16

37+30.85
22.00 LT
123.05

37+89.97
33.00 LT
122.60

37+94.97
33.00 LT
122.44

37+99.97
33.00 LT
122.09

38+04.97
33.00 LT
122.01

38+09.97
33.00 LT
122.28

37+94.97
28.00 LT
122.36

37+89.97
28.00 LT
122.52

37+99.97
28.00 LT
122.01

38+04.97
28.00 LT
121.93

38+09.97
28.00 LT
122.20

37+99.97
24.00 LT
121.73

38+04.97
24.00 LT
121.65

37+99.97
22.00 LT
121.81

38+04.97
22.00 LT
121.73

6.2%
1.5%
4.8%
3.2%
7.0%
5.4%
6.3%

37+25.85
16.00 RT
123.20

37+30.85
16.00 RT
123.11

37+25.85
18.00 RT
123.12

37+30.85
18.00 RT
123.03

37+15.85
28.00 RT
123.85

37+25.85
28.00 RT
123.27

37+30.85
28.00 RT
123.19

37+43.93
28.00 RT
122.42

37+45.97
28.00 RT
122.50

37+46.14
33.00 RT
122.42

37+44.12
33.00 RT
122.34

37+15.85
33.00 RT
123.93

37+25.85
33.00 RT
123.35

37+30.85
33.00 RT
123.27

37+25.85
40.32 RT
122.84

37+30.85
42.05 RT
122.76

5.8%
5.9%
7.0%
5.6%

37+99.97
16.64 RT
121.75

38+04.97
16.00 RT
121.69

37+99.97
18.71 RT
121.68

38+04.97
18.00 RT
121.61

37+96.24
18.01 RT
121.77

37+88.36
28.00 RT
121.63

37+92.70
28.00 RT
121.83

37+85.82
28.00 RT
121.70

37+99.97
28.00 RT
121.94

38+04.97
28.00 RT
122.02

37+84.43
33.00 RT
121.59

37+81.88
33.00 RT
121.66

37+89.10
33.00 RT
121.66

37+92.70
33.00 RT
121.91

37+89.61
36.93 RT
121.99

37+99.06
33.00 RT
122.01

38+04.97
33.00 RT
122.10

37+96.63
36.09 RT
121.99

37+93.54
40.02 RT
122.05

4.6%
2.8%
4.1%
7.0%
1.6%
1.2%
0.5%

PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CURB RAMP DETAIL	SHEET 42	E

2

W MC GEOCH AVENUE

+50

39+71.69
48.15 LT
119.76

39+67.25
45.85 LT
119.84

39+71.36
38.35 LT
119.60

39+67.09
40.95 LT
119.68

39+68.71
33.00 LT
119.44

39+64.44
36.60 LT
119.53

39+68.71
34.00 LT
119.45

39+73.39
33.00 LT
119.12

39+60.98
31.00 LT
119.63

39+78.81
33.00 LT
119.15

39+59.26
29.21 LT
119.67

39+76.69
33.00 LT
119.07

39+52.98
27.00 LT
120.14

39+76.48
28.00 LT
119.18

39+64.98
28.00 LT
119.55

39+74.10
28.00 LT
119.10

39+68.71
28.00 LT
119.49

39+52.98
22.00 LT
120.06

39+62.40
25.32 LT
119.59

40+25.65
41.88 LT
118.82

40+30.09
44.18 LT
118.90

40+30.26
33.00 LT
118.12

40+34.69
35.30 LT
118.20

40+41.36
33.00 LT
118.14

40+25.77
33.00 LT
118.06

40+46.36
33.00 LT
118.09

40+35.89
33.00 LT
118.19

40+53.01
33.87 LT
118.38

40+23.50
33.00 LT
118.15

40+27.08
28.00 LT
118.12

40+51.36
27.00 LT
118.30

40+30.05
28.00 LT
118.02

40+35.89
28.00 LT
118.11

40+46.36
27.00 LT
118.00

40+41.36
28.00 LT
118.06

40+41.36
24.00 LT
117.87

40+46.36
24.00 LT
117.79

40+41.36
22.00 LT
117.95

40+49.35
15.73 LT
117.87

N

+50

40+00

+50

W BELOIT ROAD

40+41.36
22.00 RT
117.93

40+46.36
22.00 RT
117.86

40+41.36
28.00 RT
118.13

40+41.36
24.00 RT
117.85

40+46.36
24.00 RT
117.78

40+46.36
28.00 RT
118.06

40+31.36
28.00 RT
118.62

40+36.36
28.00 RT
118.48

40+51.36
28.00 RT
118.34

40+31.36
33.00 RT
118.70

40+36.36
33.00 RT
118.56

40+41.36
33.00 RT
118.21

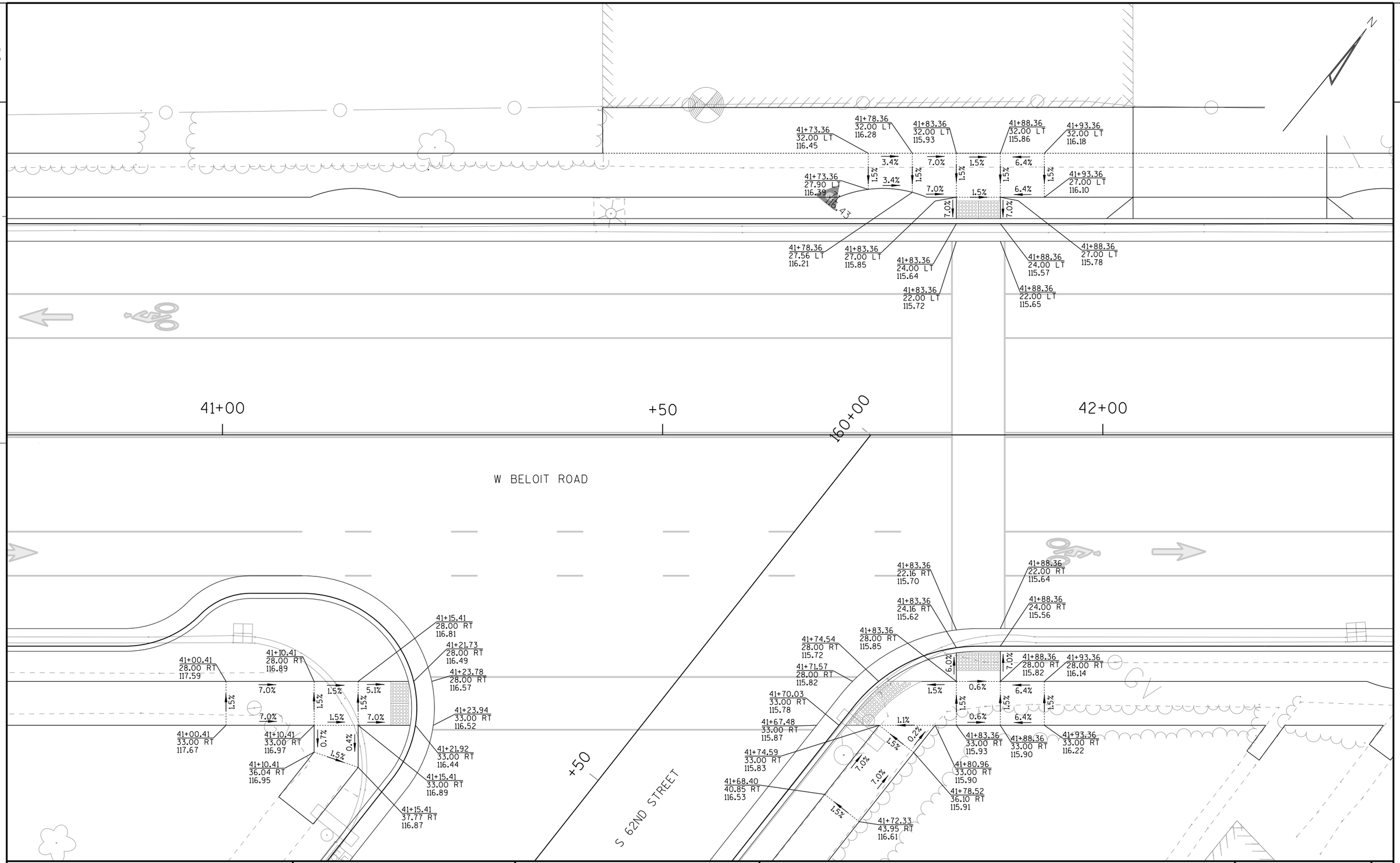
40+46.36
33.00 RT
118.14

40+51.36
33.00 RT
118.42

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CURB RAMP DETAIL	SHEET 43	E

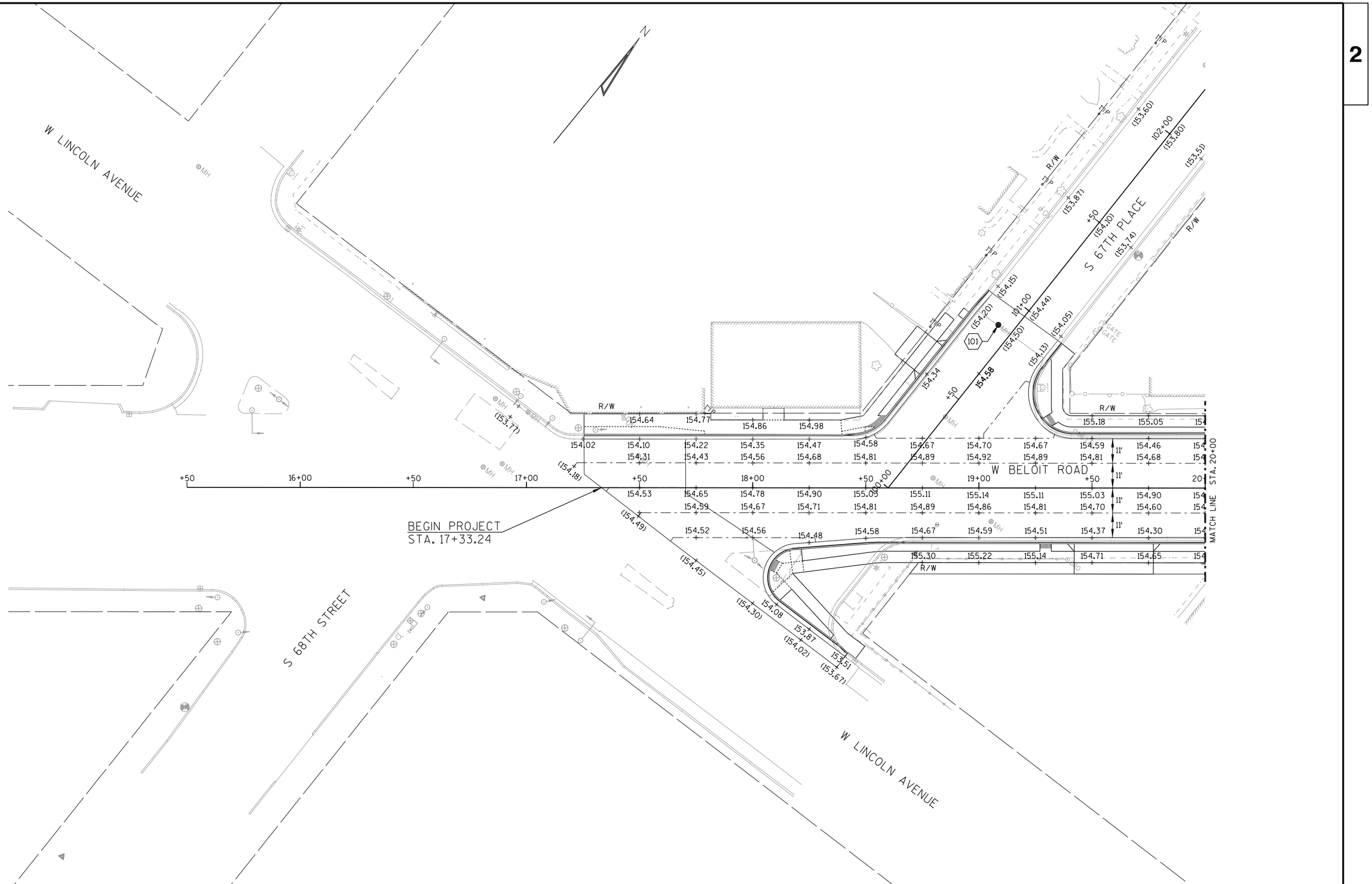
FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\021311_cr.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 10.0000 sf / in.

2



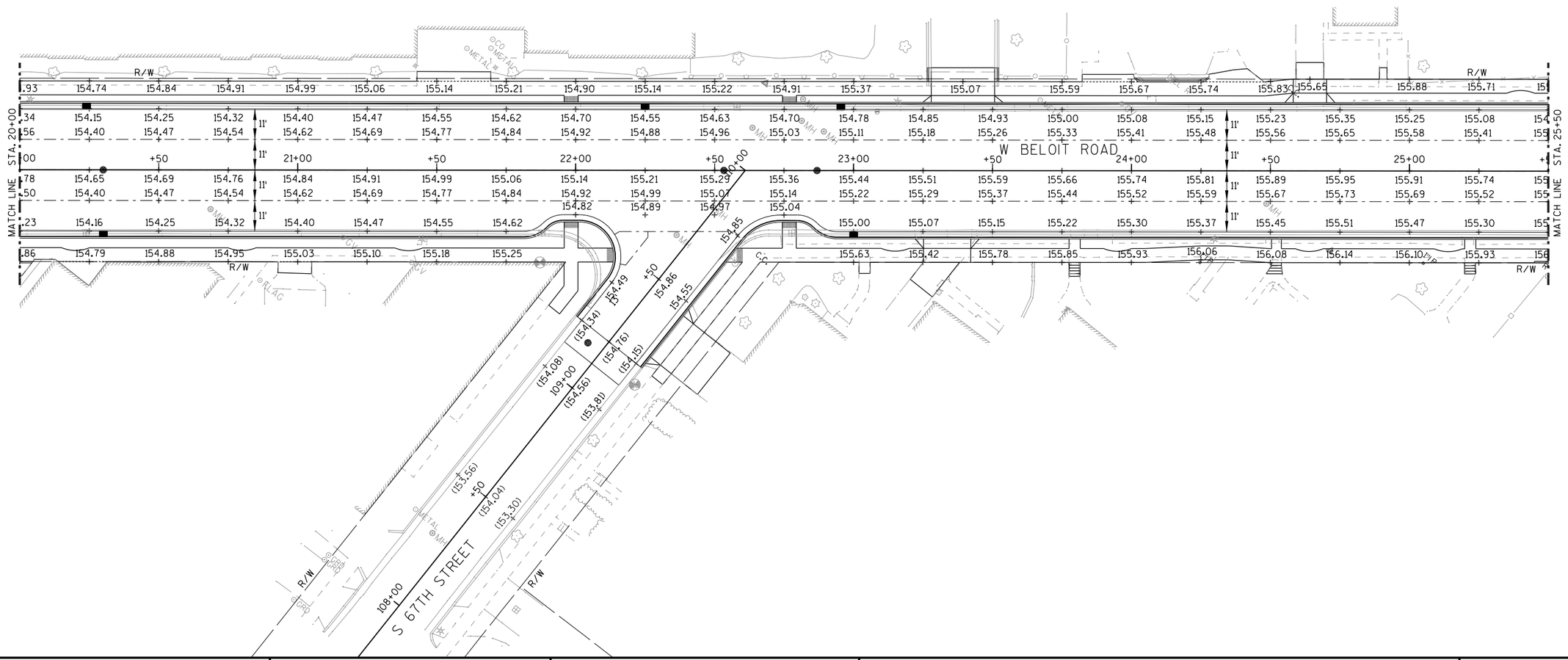
PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CURB RAMP DETAIL	SHEET 44	E

2



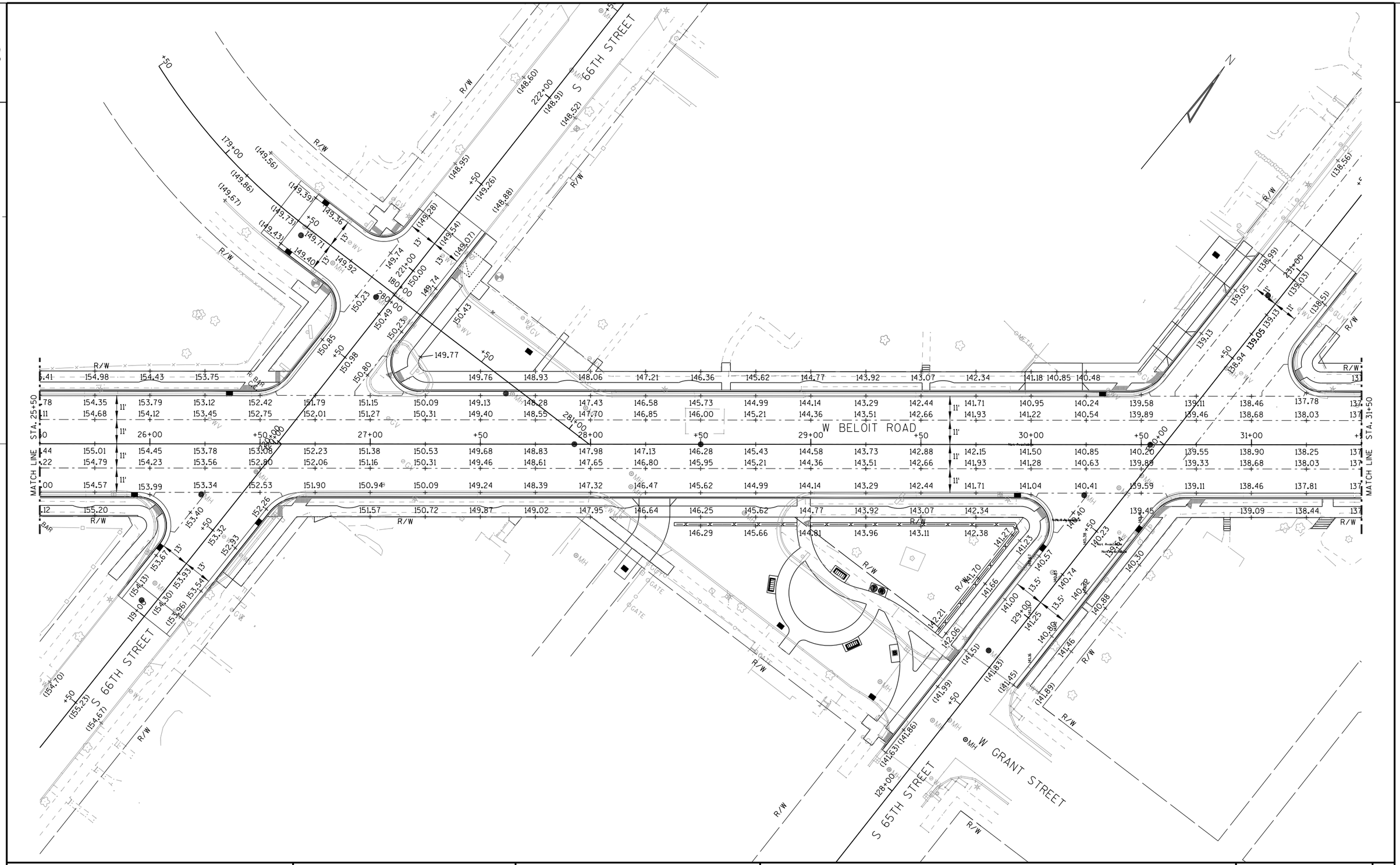
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PAVEMENT GRADES	SHEET 45	E

2



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET 46	E

2

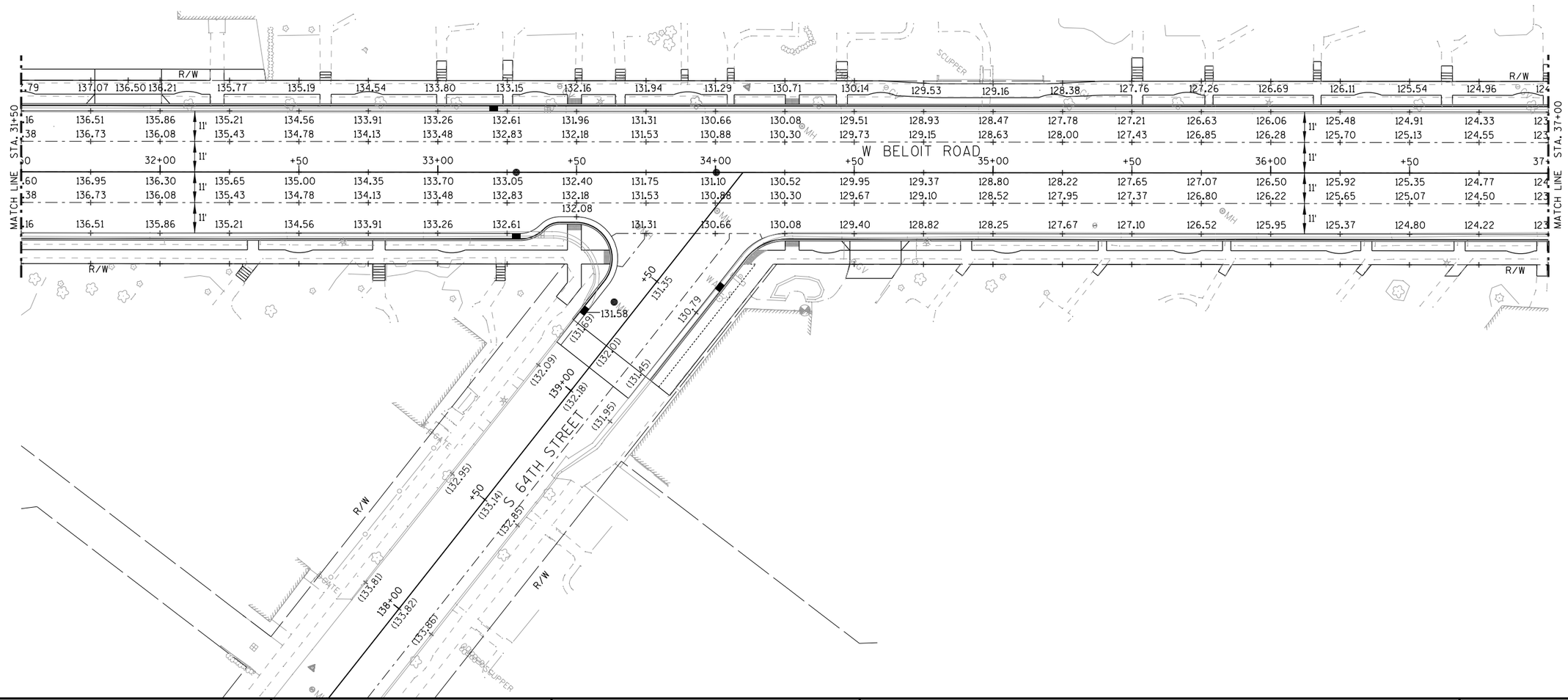


PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET 47	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\021403_jd.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

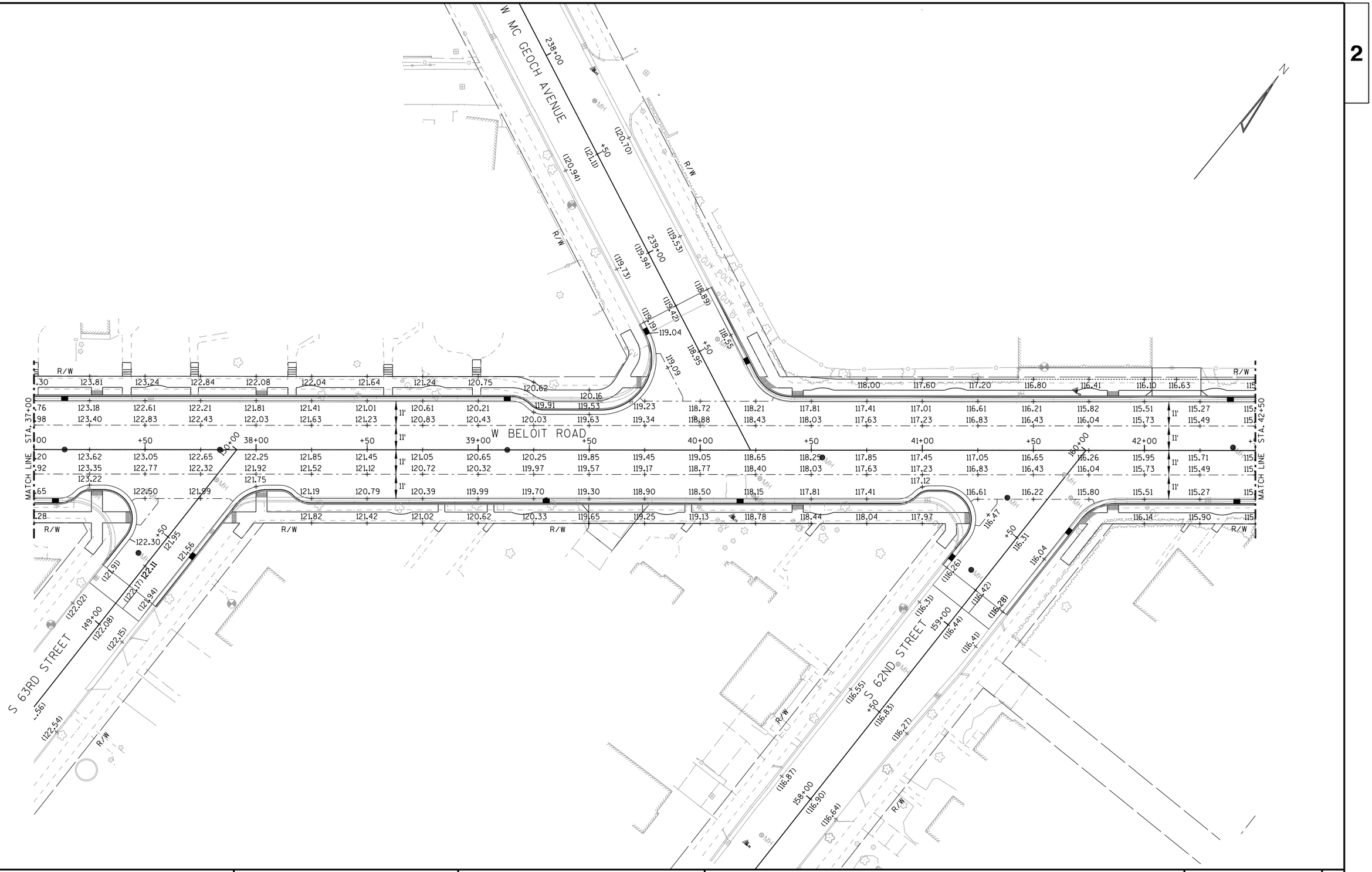
WISDOT/CADDS SHEET 42

2



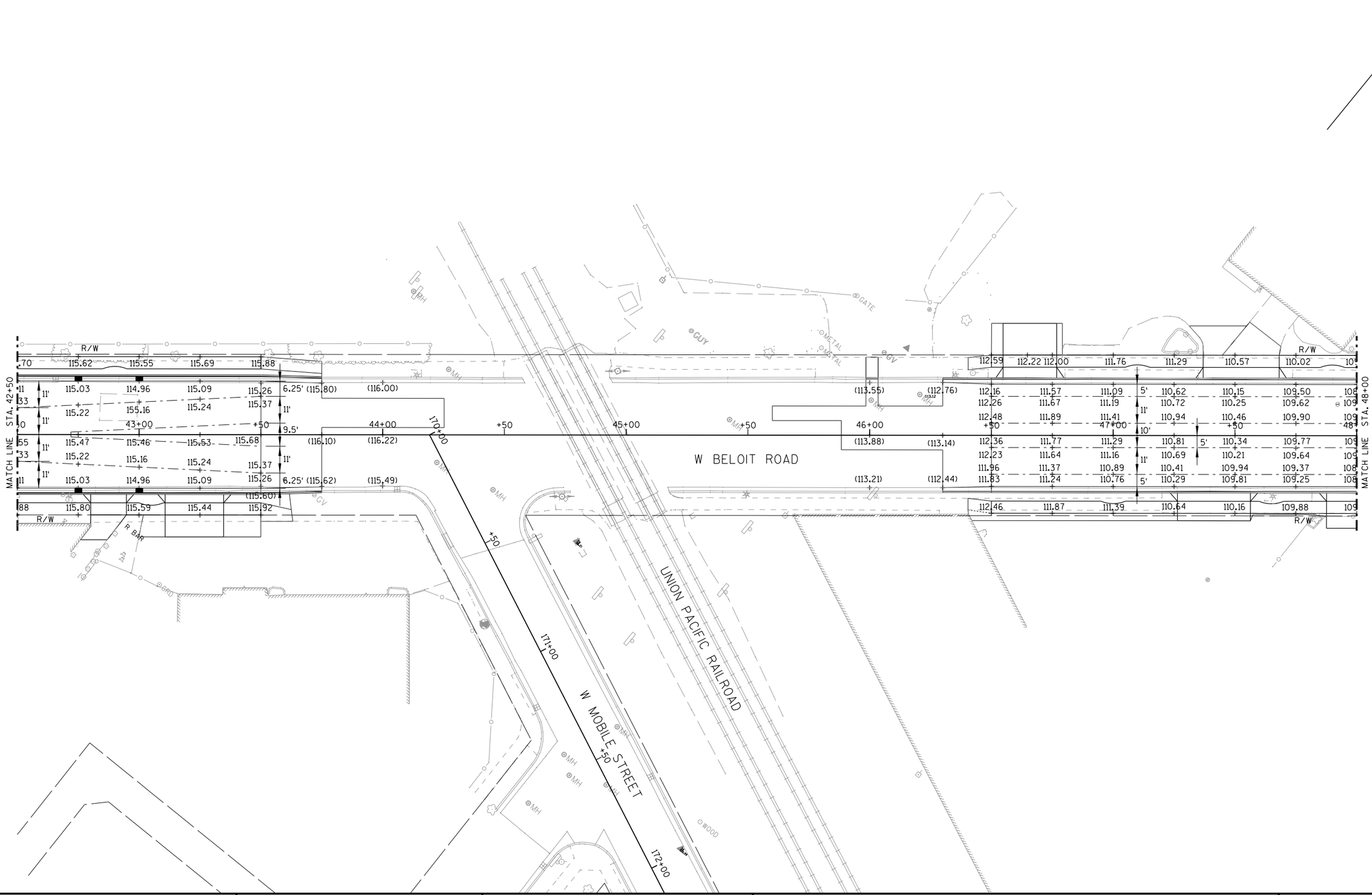
PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET 48	E

2



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PAVEMENT GRADES	SHEET 49	E

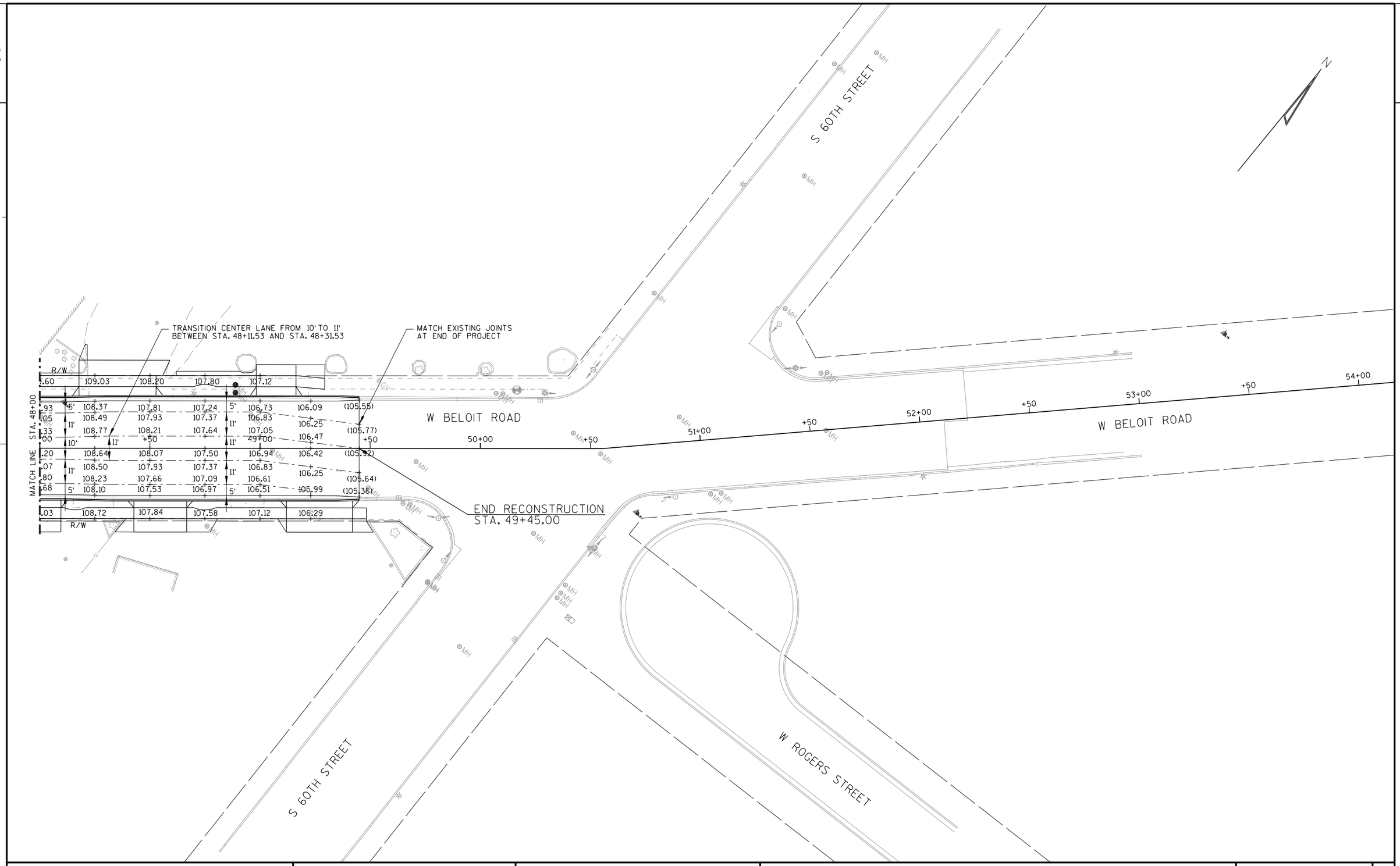
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PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PAVEMENT GRADES	SHEET 50	E

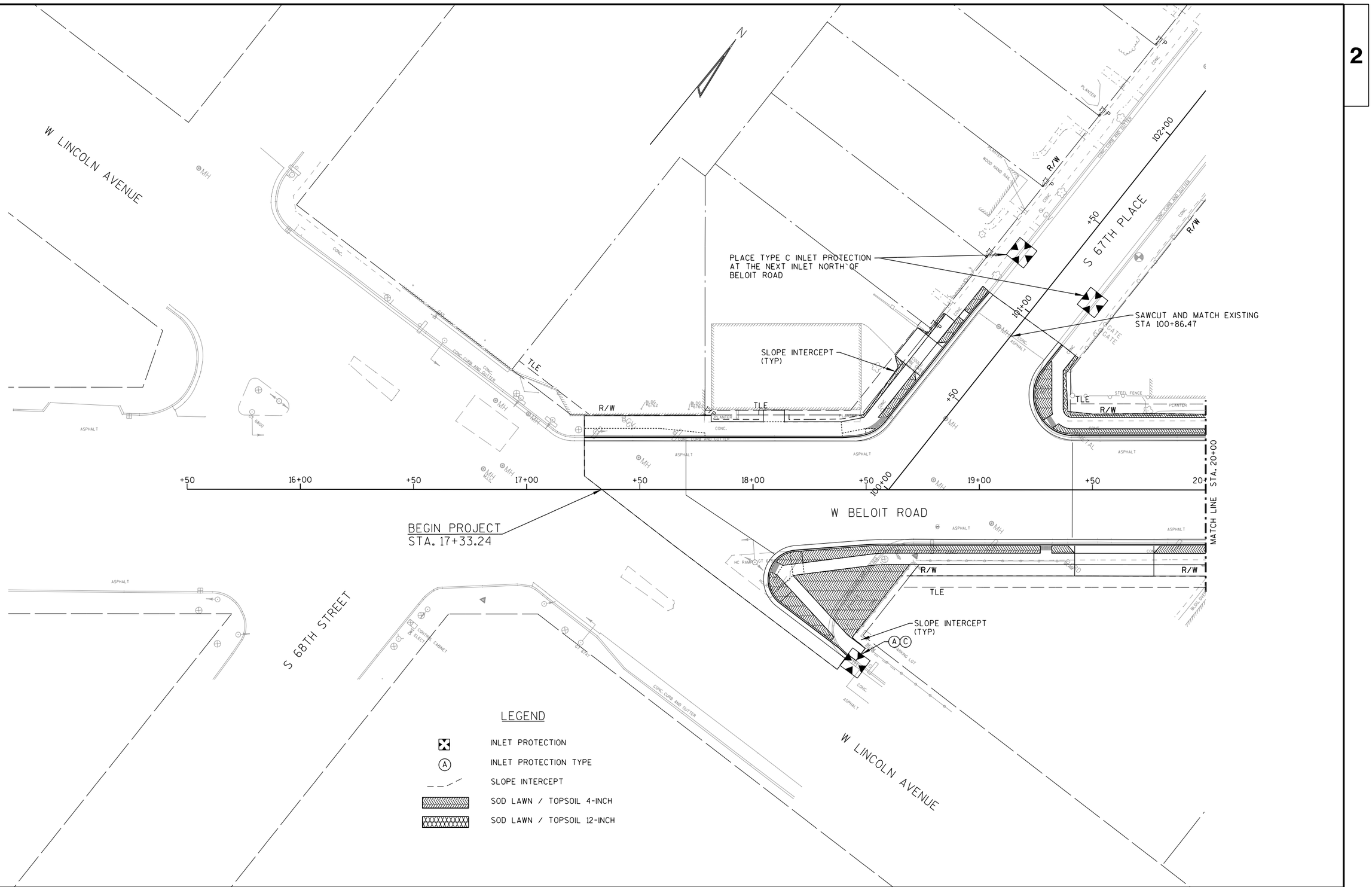
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PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	PAVEMENT GRADES	SHEET 51	E

2

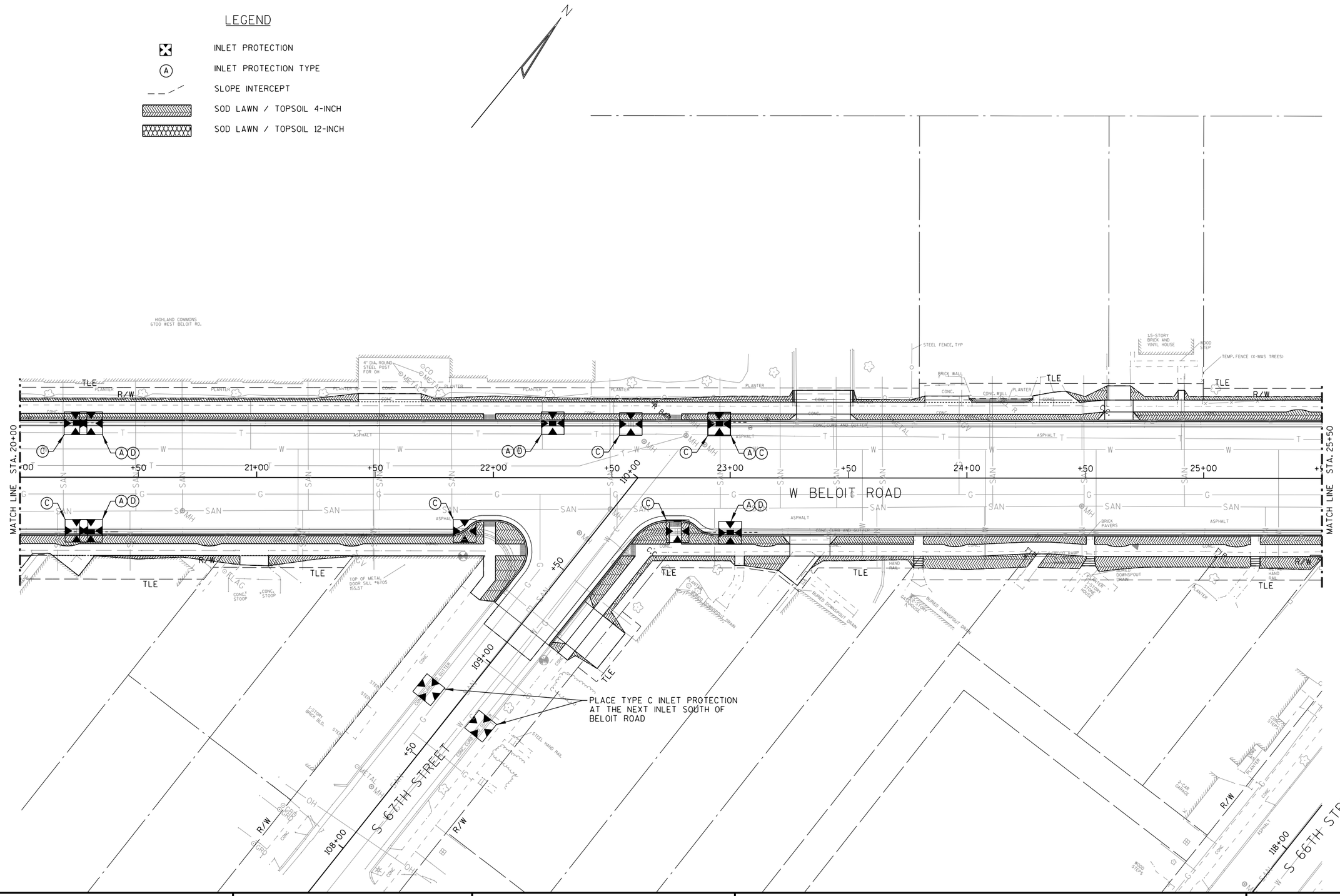


PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	EROSION CONTROL	SHEET 52	E

2

LEGEND

- INLET PROTECTION
- (A) INLET PROTECTION TYPE
- SLOPE INTERCEPT
- SOD LAWN / TOPSOIL 4-INCH
- SOD LAWN / TOPSOIL 12-INCH



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 53	E

2

PLACE TYPE C INLET PROTECTION AT THE NEXT INLET NORTH OF BELOIT ROAD

PLACE TYPE C INLET PROTECTION AT THE NEXT INLET NORTH OF BELOIT ROAD

SLOPE INTERCEPT (TYP.)

SLOPE INTERCEPT (TYP.)

BACKFILL FOR PLANT BEDS, 24-INCH FINAL SIZES AND LOCATIONS TO BE COORDINATED WITH THE CITY OF WEST ALLIS FORESTRY DEPT. (TYP.)

S 66TH STREET

S 65TH STREET

W BELOIT ROAD

W GRANT STREET

MATCH LINE STA. 25+50

MATCH LINE STA. 31+50

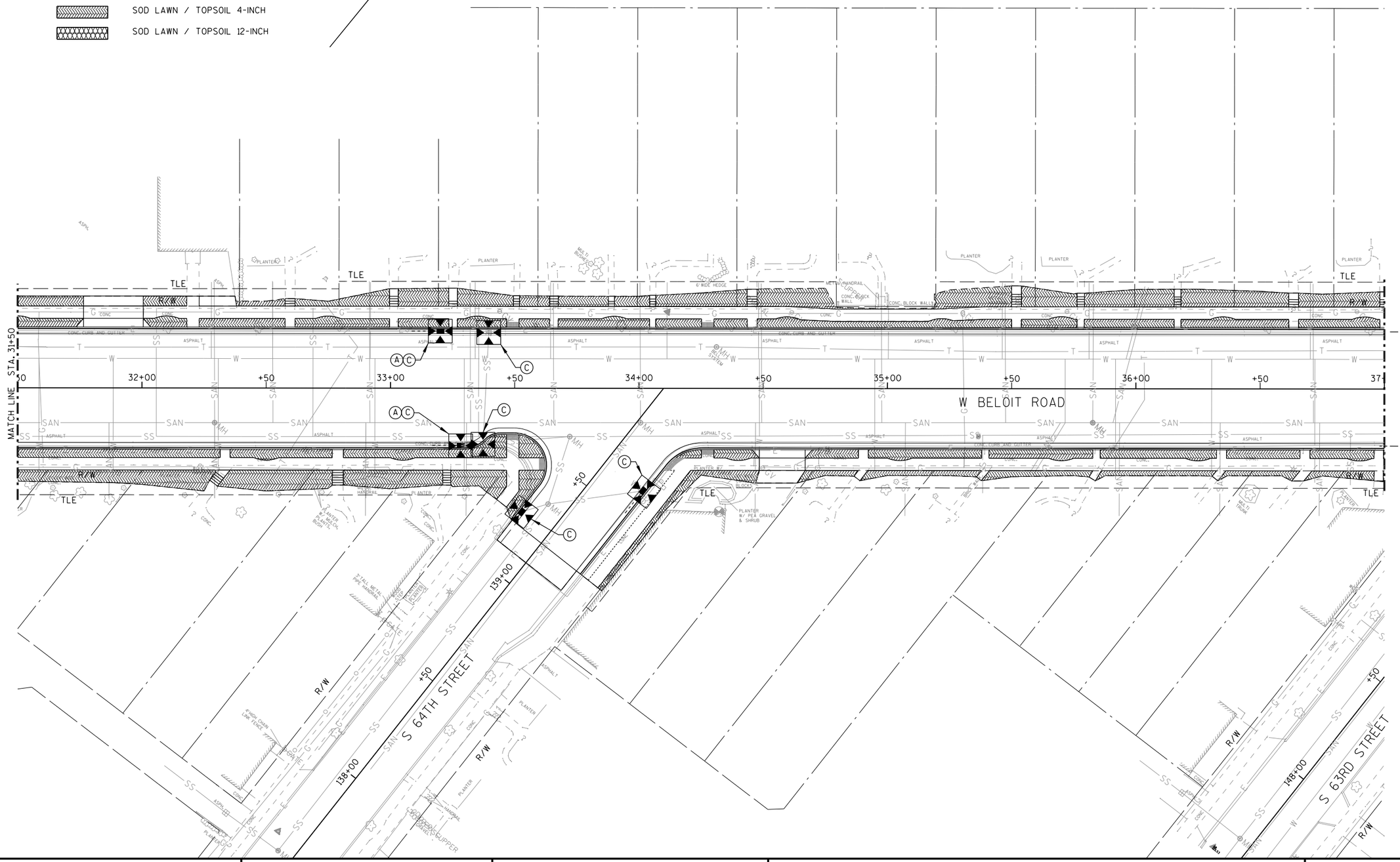
LEGEND

- INLET PROTECTION
- (A) INLET PROTECTION TYPE
- SLOPE INTERCEPT
- SOD LAWN / TOPSOIL 4-INCH
- SOD LAWN / TOPSOIL 12-INCH

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 54	E

LEGEND

- INLET PROTECTION
- (A) INLET PROTECTION TYPE
- SLOPE INTERCEPT
- SOD LAWN / TOPSOIL 4-INCH
- SOD LAWN / TOPSOIL 12-INCH



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 55	E

2

LEGEND

- INLET PROTECTION
- (A) INLET PROTECTION TYPE
- SLOPE INTERCEPT
- SOD LAWN / TOPSOIL 4-INCH
- SOD LAWN / TOPSOIL 12-INCH

N

STA. 37+00

MATCH LINE

STA. 42+50

MATCH LINE

238+00 239+00 149+00 150+00 158+00 159+00 180+00

38+00 39+00 40+00 41+00 42+00

+50

R/W TLE

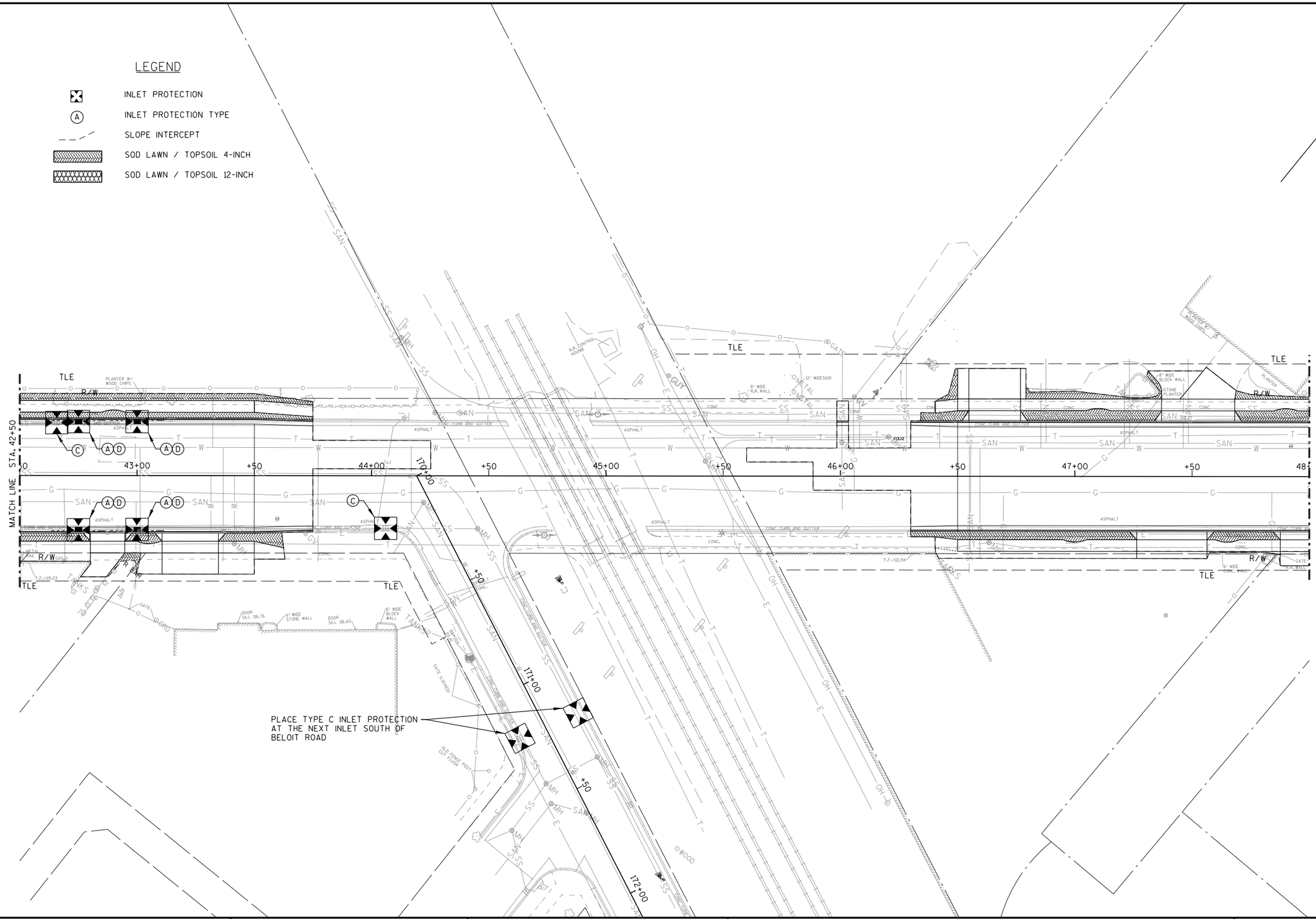
TIMBER PLANTER 3.5' HIGH TIMBER FENCE CONC. STEP 3" DRAIN CONC. CURB AND GUTTER ASPHALT CONC. CURB AND GUTTER CONC. STEP PLANTER 12" HIGH x 30 DIA. CONC. BLOCKS PLANTER WOOD CHIPS WOOD STEP CONC. JOINT TYP. OF 5 PLANTER WOOD CHIPS ALLEY PLANTER

PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	EROSION CONTROL	SHEET 56	E

2

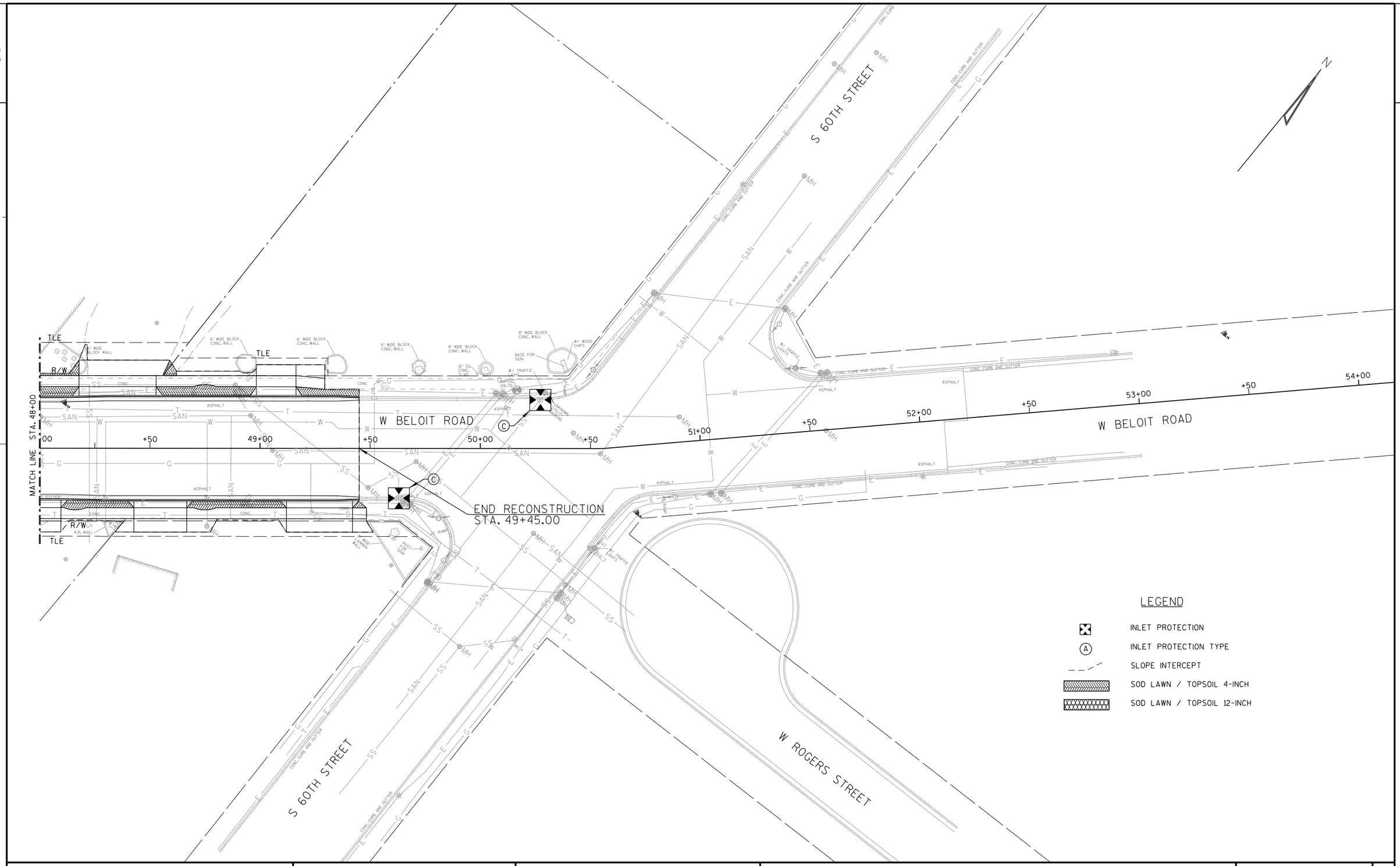
LEGEND

- INLET PROTECTION
- (A) INLET PROTECTION TYPE
- SLOPE INTERCEPT
- SOD LAWN / TOPSOIL 4-INCH
- SOD LAWN / TOPSOIL 12-INCH



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	EROSION CONTROL	SHEET 57	E

2



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	EROSION CONTROL	SHEET 58	E

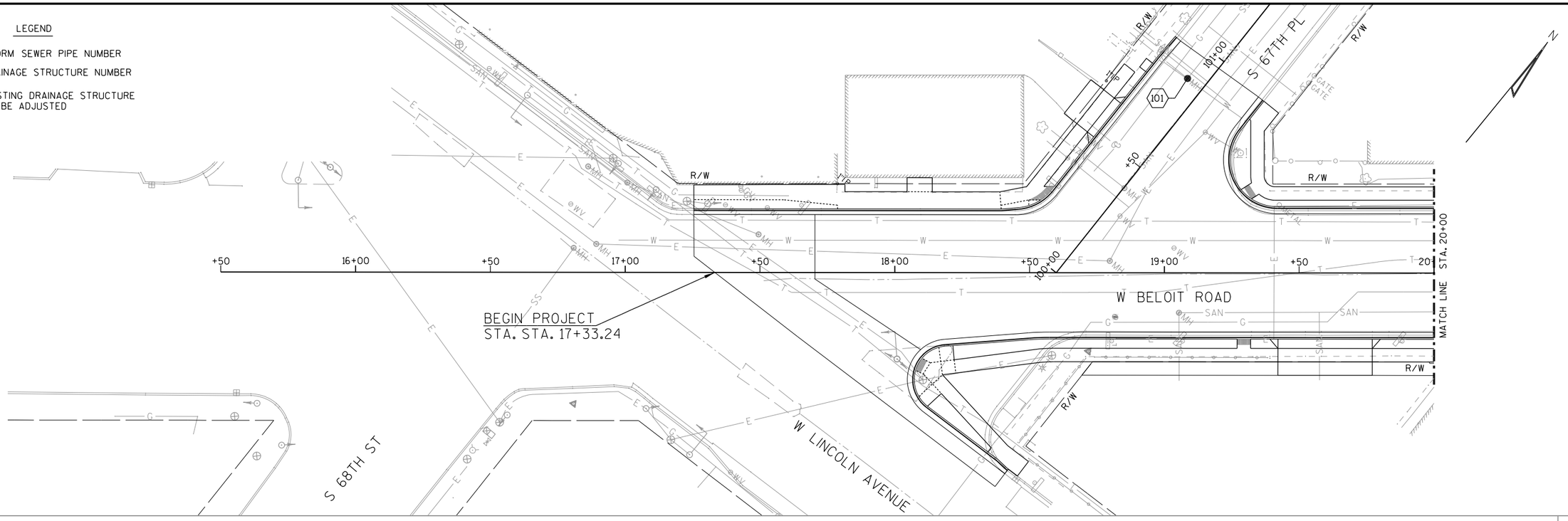
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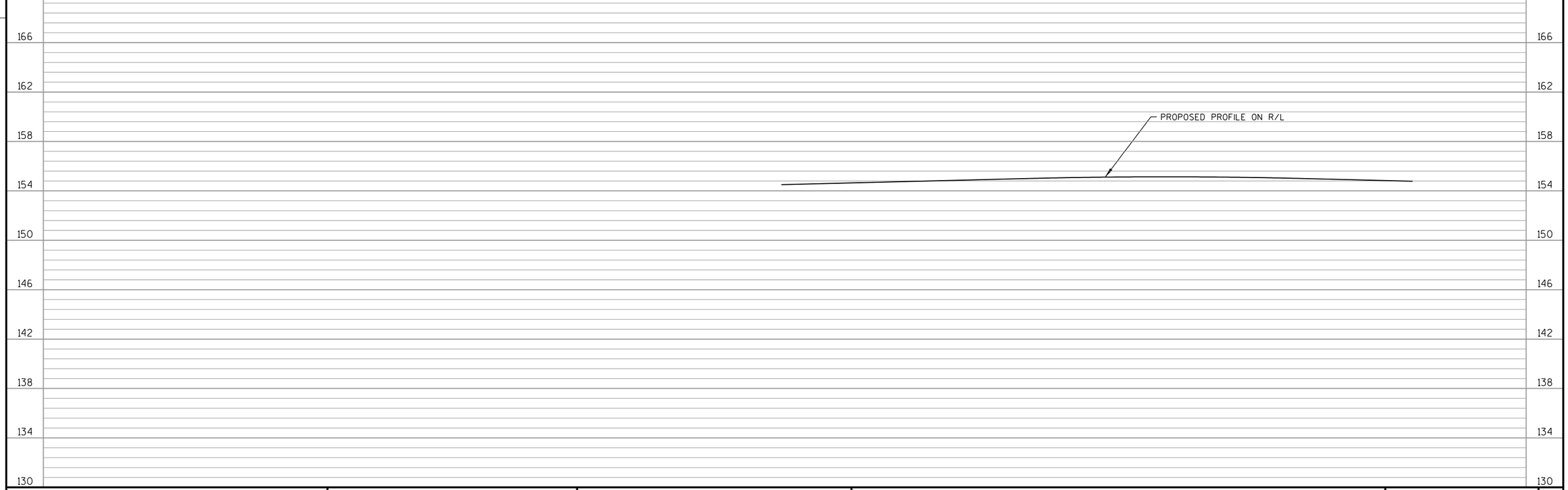
LEGEND

P-XX STORM SEWER PIPE NUMBER

(XXX) DRAINAGE STRUCTURE NUMBER

XXX EXISTING DRAINAGE STRUCTURE TO BE ADJUSTED



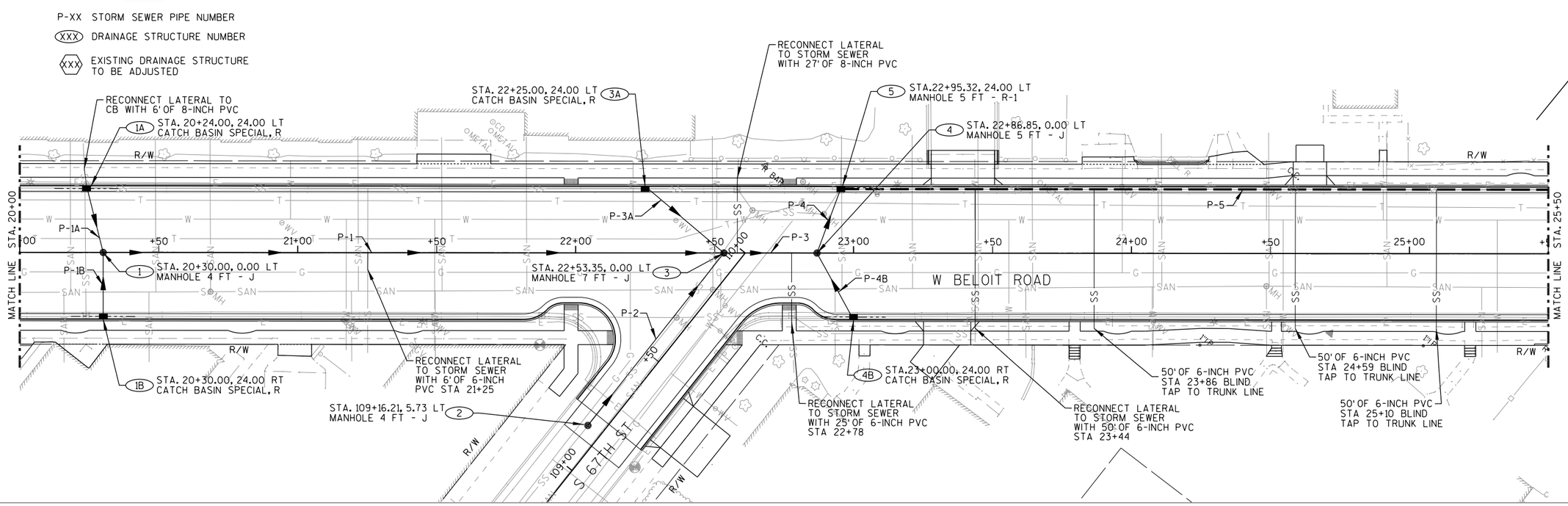


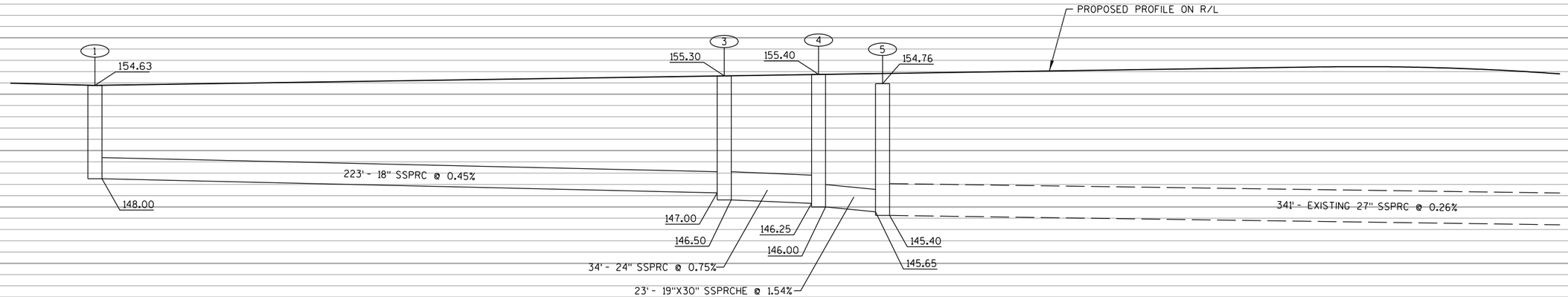
LEGEND

P-XX STORM SEWER PIPE NUMBER

(XXX) DRAINAGE STRUCTURE NUMBER

(XXX) EXISTING DRAINAGE STRUCTURE TO BE ADJUSTED





PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	STORM SEWER	SHEET 60	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\022502_ss.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

2

LEGEND

P-XX STORM SEWER PIPE NUMBER

(XXX) DRAINAGE STRUCTURE NUMBER

(XXX) EXISTING DRAINAGE STRUCTURE TO BE ADJUSTED

STA.179+50.00, 15.00 LT
CATCH BASIN SPECIAL, R
10B

STA.179+50.00, 4.50 RT
MANHOLE 4 FT - J
10

STA.179+50.00, 15.00 RT
CATCH BASIN SPECIAL, R
10A

STA. 179+94.09, 6.11 RT
MANHOLE 4 FT - J
11

STA.25+93.03, 24.00 RT
CATCH BASIN SPECIAL, R-1
8A

STA. 26+23.32, 23.00 RT
MANHOLE 4 FT - J
8

STA. 119+65.80, 15.00 RT
CATCH BASIN SPECIAL, R-1
8B

STA. 119+28.97, 15.00 LT
CATCH BASIN SPECIAL, R
7

STA. 119+05.00, 5.50 LT
MANHOLE 4 FT - J
6

RECONNECT LATERAL
TO STORM SEWER
WITH 13' OF 6-INCH PVC

RECONNECT LATERAL
TO STORM SEWER
WITH 27' OF 8-INCH PVC

27' OF 6-INCH PVC
STA 27+72 BLIND
TAP TO TRUNK LINE

STA. 27+72.00, 42.00 LT
INLET 3 FT - C
12A

STA.27+61.59, 24.00 RT
MANHOLE 9 FT - R-1
12

28' OF 6-INCH PVC
STA 28+03 BLIND
TAP TO TRUNK LINE

STA. 27+92.67, 0.00 LT
MANHOLE 5 FT - J
13

STA. 28+50.00, 0.00 LT
MANHOLE 5 FT - J
15

27' OF 6-INCH PVC
STA 28+39 BLIND
TAP TO TRUNK LINE

STA. 28+86.50, 82.50 RT
INLET 3 FT - C
16A

STA. 28+28.00, 33.60' LT
EXISTING INLET - C
16B

27' OF 6-INCH PVC
STA 29+96 BLIND
TAP TO TRUNK LINE

27' OF 6-INCH PVC
STA 29+64 BLIND
TAP TO TRUNK LINE

STA. 29+93.78, 24.00 RT
CATCH BASIN SPECIAL, R-1
18A

STA. 129+29.00, 15.50 LT
CATCH BASIN SPECIAL, R
17

STA. 30+24.13, 23.00 RT
MANHOLE 5 FT - J
18

STA. 129+62.68, 15.50 RT
CATCH BASIN SPECIAL, R-1
18B

33' OF 6-INCH PVC
STA 129+45 BLIND
TAP TO TRUNK LINE

STA. 230+82.12, 34.89 LT
MANHOLE 4 FT - C
19

STA. 230+82.31, 5.00 LT
MANHOLE 4 FT - J
20

STA. 30+32.50, 24.00 LT
CATCH BASIN SPECIAL, R-1
21A

STA. 30+54.10, 0.00 LT
MANHOLE 8 FT - J
21

BULKHEAD PIPE
TO NORTH
104

W GRANT ST

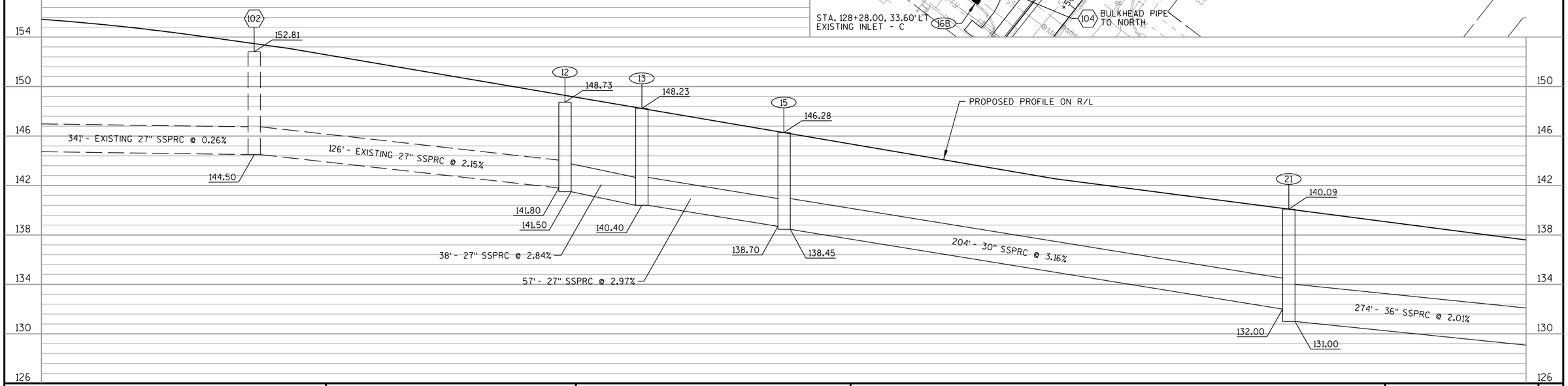
W BELOIT ROAD

S 66TH ST

S 65TH ST

MATCH LINE STA. 25+50

MATCH LINE STA. 31+50



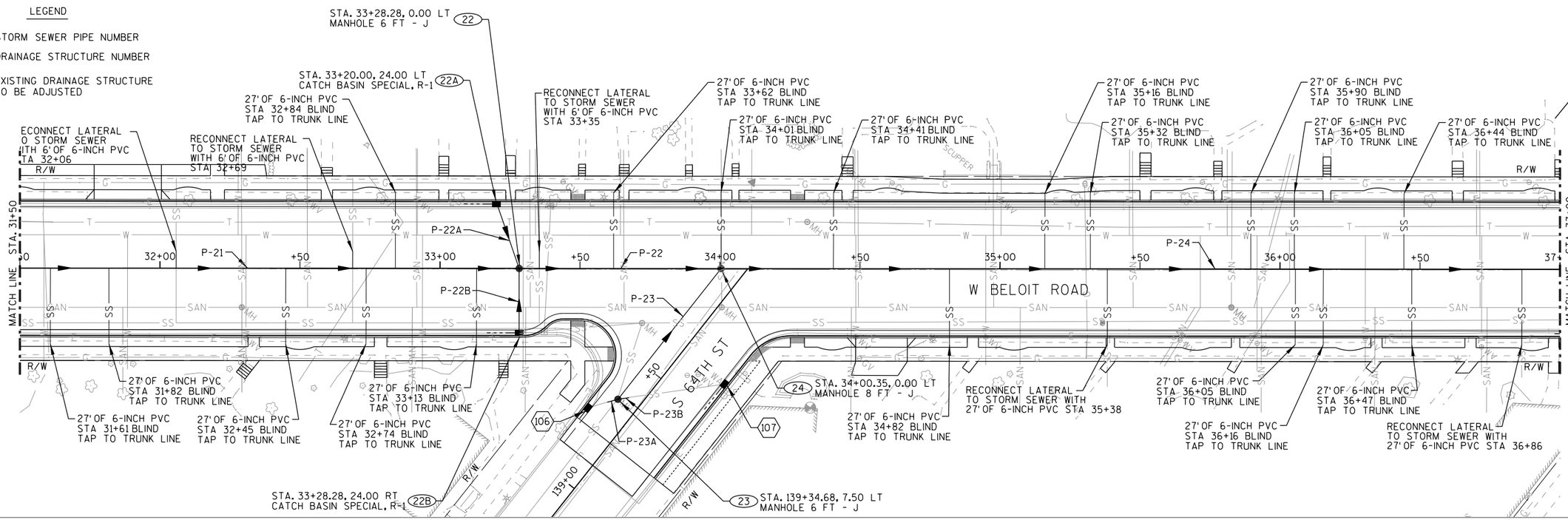
PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	STORM SEWER	SHEET 61	E

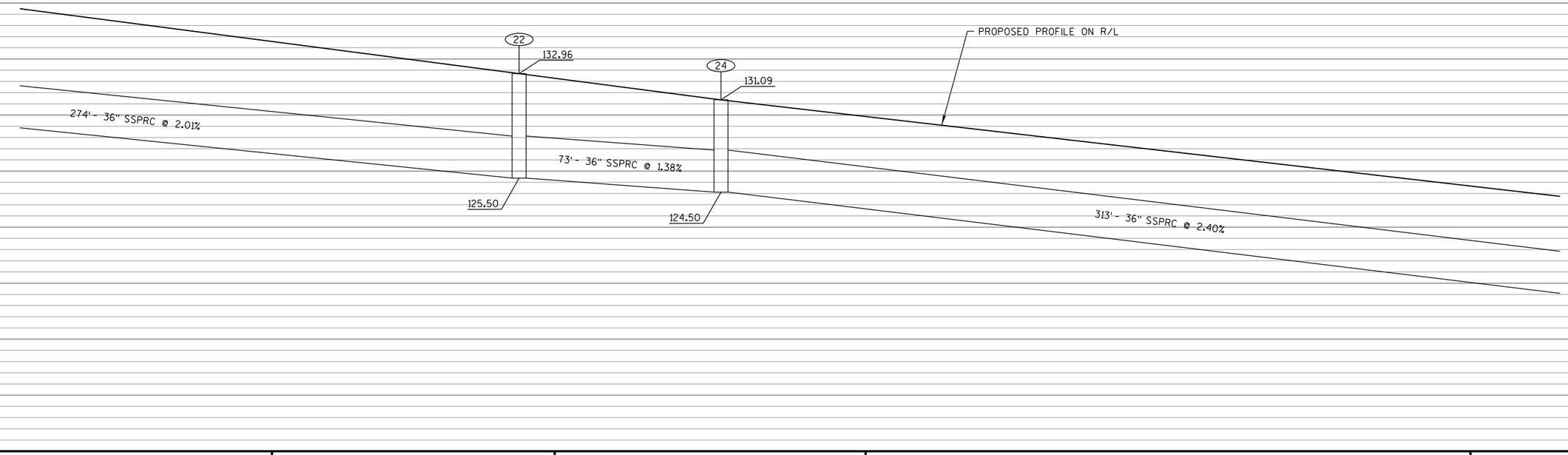
LEGEND

P-XX STORM SEWER PIPE NUMBER

(XXX) DRAINAGE STRUCTURE NUMBER

⟨XXX⟩ EXISTING DRAINAGE STRUCTURE TO BE ADJUSTED





PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	STORM SEWER	SHEET 62	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\022504_ss.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 41

2

LEGEND

P-XX STORM SEWER PIPE NUMBER

(XXX) DRAINAGE STRUCTURE NUMBER

⬡XXX⬡ EXISTING DRAINAGE STRUCTURE TO BE ADJUSTED

N

W MC GEOCH AVE

239+00

W BELOIT ROAD

MATCH LINE STA. 37+00

MATCH LINE STA. 42+50

RECONNECT LATERAL TO STORM SEWER WITH 6' OF 6-INCH PVC STA 37+03

STA. 37+13.78, 24.00 LT CATCH BASIN SPECIAL, R-1 (25A)

27' OF 6-INCH PVC STA 37+23 BLIND TAP TO TRUNK LINE

27' OF 6-INCH PVC STA 37+65 BLIND TAP TO TRUNK LINE

RECONNECT LATERAL TO STORM SEWER WITH 6' OF 6-INCH PVC STA 38+25 AND 38+75

STA. 39+13.12, 24.00 LT CATCH BASIN SPECIAL, R-1 (28A)

STA. 42+38.78, 24.00 LT CATCH BASIN SPECIAL, R-1 (32)

RECONNECT LATERAL 8'LT TO 27'LT WITH 19' OF 12-INCH PVC

RECONNECT LATERAL TO 8-IN STA

P-25A

STA. 37+13.78, 0.00 LT MANHOLE 5 FT - J (25)

P-25

P-25B

STA. 37+09.61, 24.00 RT CATCH BASIN SPECIAL, R-1 (25B)

P-26

P-26A

STA. 149+50.00, 15.00 RT CATCH BASIN SPECIAL, R-1 (26B)

P-26B

STA. 149+36.09, 6.00 LT MANHOLE 5 FT - J (26)

P-27

STA. 37+83.68, 0.00 LT MANHOLE 7 FT - J (27)

P-28A

STA. 39+13.12, 0.00 LT MANHOLE 6 FT - J (28)

P-28

P-29

STA. 39+30.70, 24.00 RT MANHOLE 6 FT - R-1 (29)

27' OF 6-INCH PVC STA 38+79 BLIND TAP TO TRUNK LINE

4' OF 6-INCH PVC FROM MANHOLE STA 39+31

RECONNECT LATERAL TO STORM SEWER WITH 4' OF 6-INCH PVC STA 39+94

P-30

STA. 40+17.90, 24.00 RT MANHOLE 5 FT - R-1 (30)

STA. 41+38.30, 21.34 RT MANHOLE 4 FT - J (31)

P-31

P-31A

P-31B

STA. 159+66.63, 17.60 RT CATCH BASIN SPECIAL, R-1 (31A)

P-32

P-33

STA. 42+41.66, 24.00 RT CATCH BASIN SPECIAL, R-1 (33)

P-34

STA. 42+50.00, 15.00 RT CATCH BASIN SPECIAL, R-1 (34)

P-35

STA. 42+50.00, 6.00 LT MANHOLE 5 FT - J (35)

108 109 110 111 112 113 114

S 63RD ST 149+00

S 62ND ST 159+00

R/W

CONC CURB AND GUTTER

ASPHALT

SAN SS W G T

PROPOSED PROFILE ON R/L

| | | |

LEGEND

P-XX STORM SEWER PIPE NUMBER

(XXX) DRAINAGE STRUCTURE NUMBER

(XXX) EXISTING DRAINAGE STRUCTURE TO BE ADJUSTED

SANEX LATERAL WITH 6' OF 6" PVC 42+39

BEGIN STORM SEWER LINING CIPP 42"

UNION PACIFIC RAILROAD

STORM SEWER LINING CIPP 42"

CORE NEW HOLE INTO EXISTING STORM SEWER AND LINE OVER EXISTING LATERAL CONNECTION

32A STA. 42+75.00, 24.00 LT CATCH BASIN SPECIAL, R-1

32B STA. 43+00.00, 24.00 LT CATCH BASIN SPECIAL, R

P-32A

P-32B

P-33A

P-33B

33B STA. 43+00.00, 24.00 RT CATCH BASIN SPECIAL, R

33A STA. 42+75.00, 24.00 RT CATCH BASIN SPECIAL, R-1

R BAR

R/W

MATCH LINE STA. 42+50

MATCH LINE STA. 48+00

42+50 43+00 +50 44+00 +50 45+00 +50 46+00 +50 47+00 +50 48

W BELOIT ROAD

W MOBILE ST

RECONNECT LATERAL TO STORM SEWER WITH 55' OF 6-INCH PVC

ROADWAY PROFILE ON R/L

117

116.11

115.72

100.93

98.13

98.07

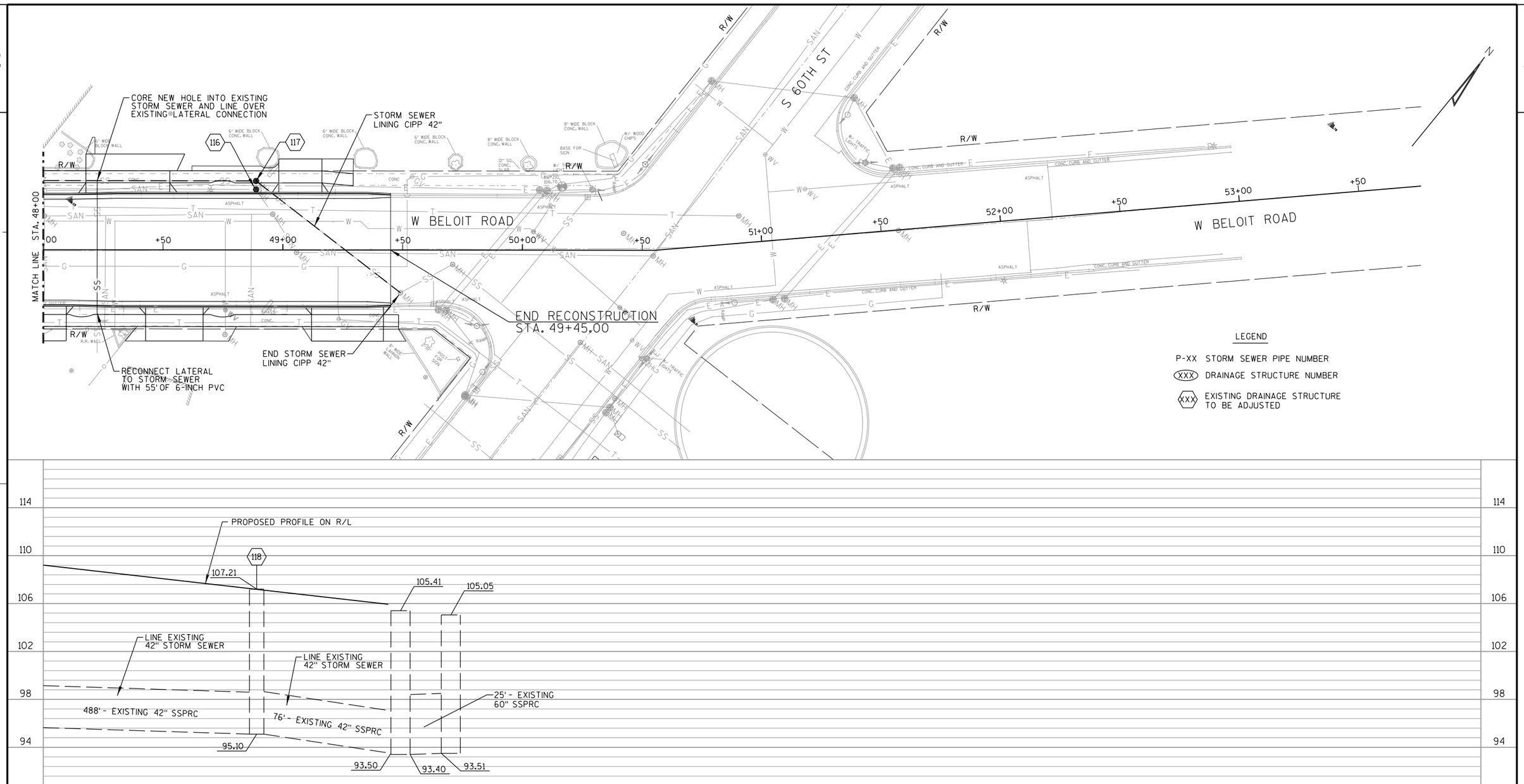
216' - EXISTING 72" SSPRC

488' - EXISTING 42" SSPRC

LINE EXISTING 42" STORM SEWER

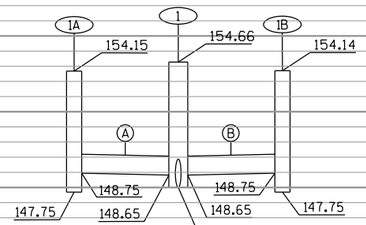
126 122 118 114 110 106 102 98 94 90

PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	STORM SEWER	SHEET 64	E

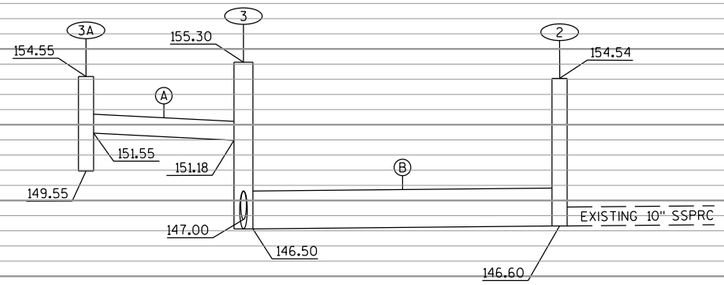


PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	STORM SEWER	SHEET 65	E

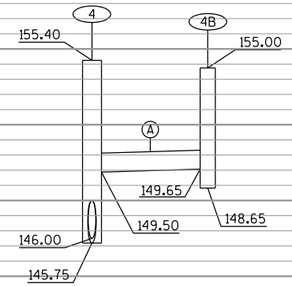
FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\022507_ss.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.



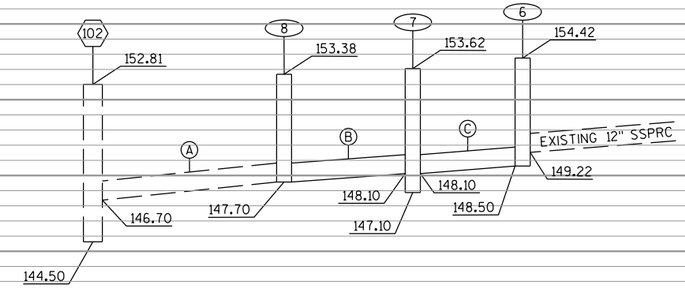
Ⓐ 23' - 12" SSPRC @ 0.43%
Ⓑ 23' - 12" SSPRC @ 0.43%



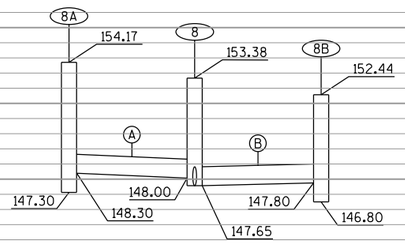
Ⓐ 36' - 12" SSPRC @ 1.01%
Ⓑ 79' - 24" SSPRC @ 0.13%



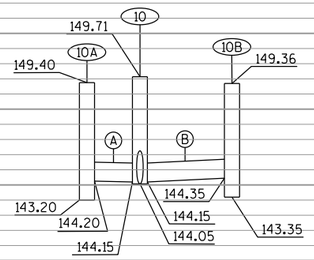
Ⓐ 27' - 12" SSPRC @ 0.56%



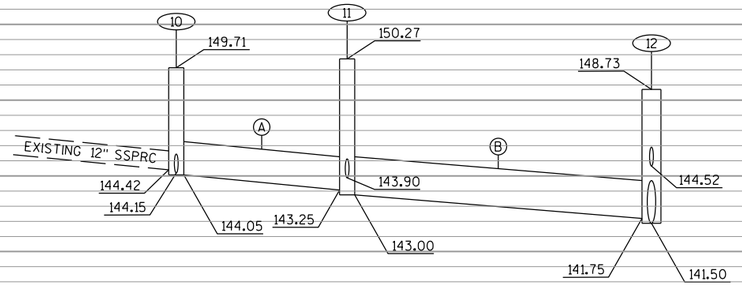
Ⓐ 47' - 12" SSPRC @ 2.16% (EXISTING)
Ⓑ 30' - 12" SSPRC @ 1.35%
Ⓒ 25' - 12" SSPRC @ 1.58%



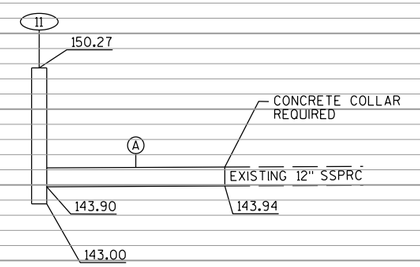
Ⓐ 30' - 12" SSPRC @ 0.99%
Ⓑ 29' - 12" SSPRC @ 0.51%



Ⓐ 10' - 12" SSPRC @ 0.51%
Ⓑ 19' - 12" SSPRC @ 1.06%

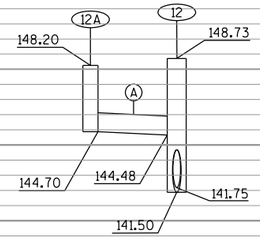


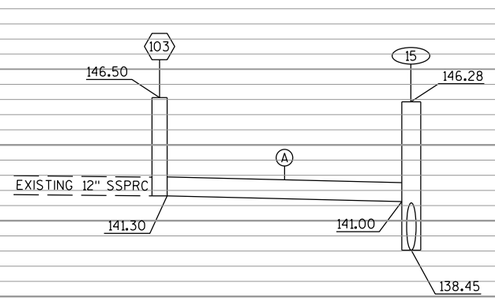
Ⓐ 44' - 21" SSPRC @ 1.81%
Ⓑ 73' - 24" SSPRC @ 1.70%

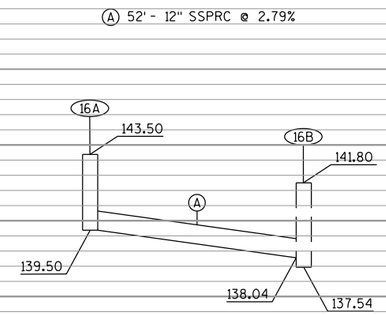


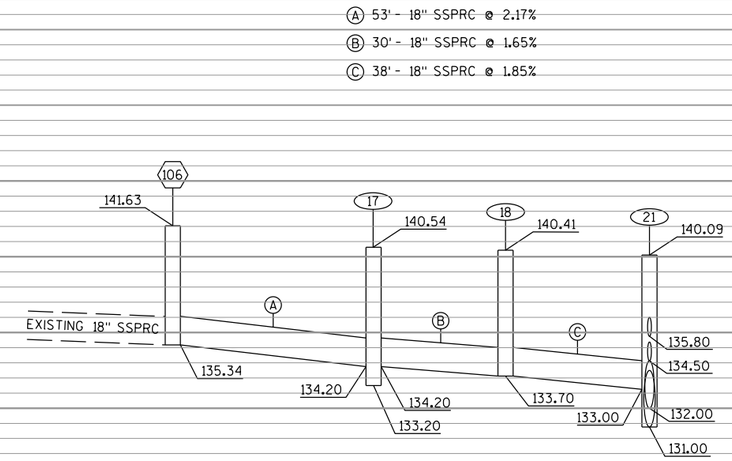
Ⓐ 48' - 12" SSPRC @ 0.09%

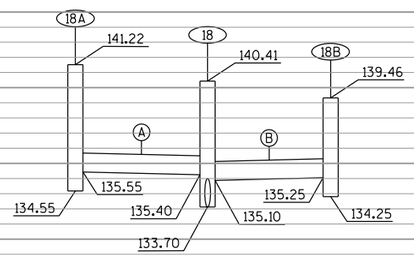
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SHEET 66	E

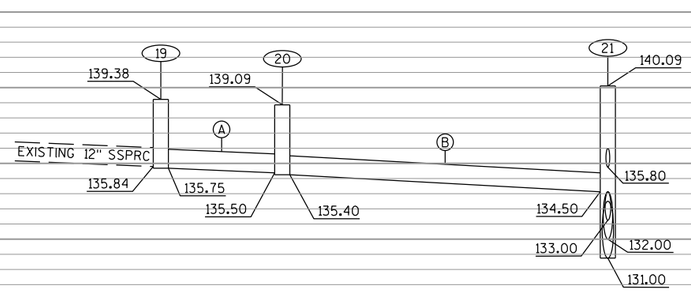


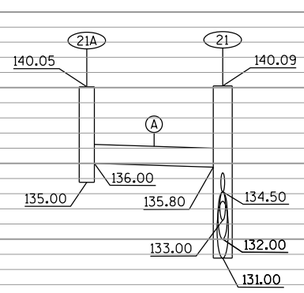


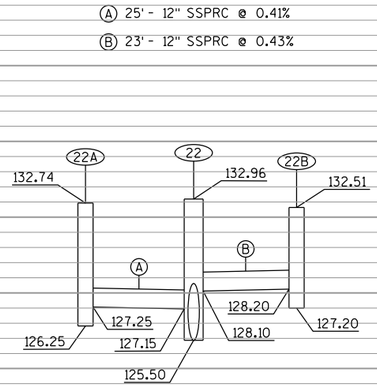




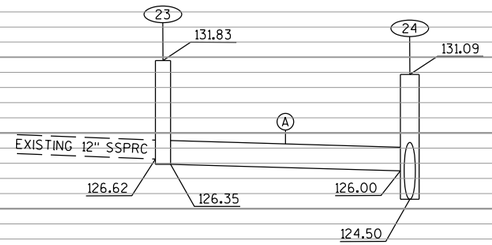


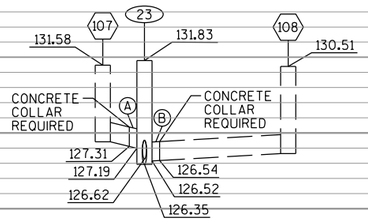


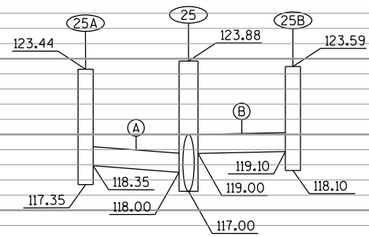


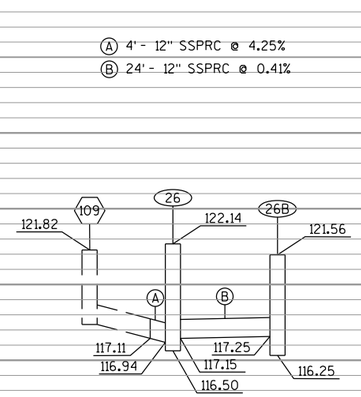


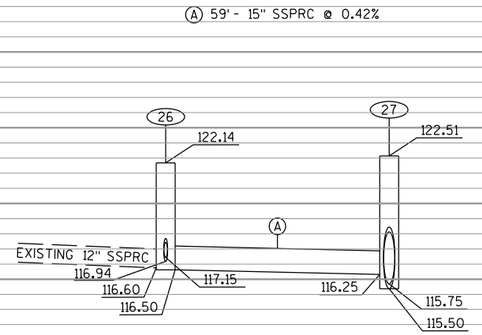
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SHEET 67	E

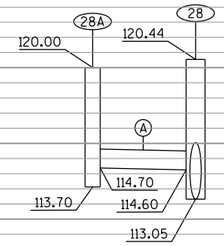


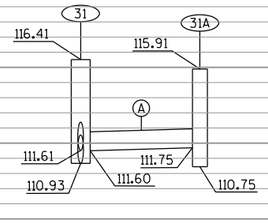


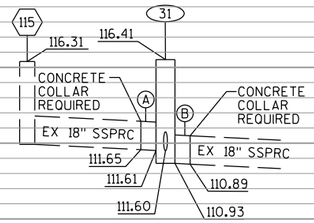


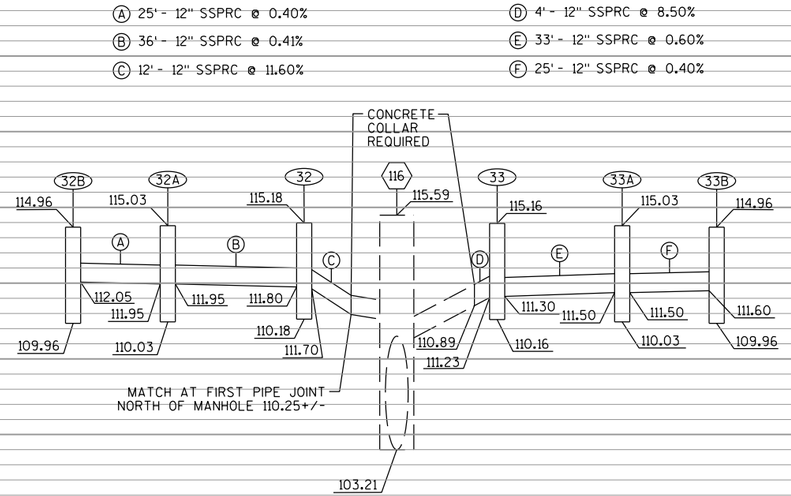












PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	STORM SEWER PROFILES	SHEET 68	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\022508_ss-profiles.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.
WISDOT/CADDS SHEET 41

STRUCT. NO.	STATION	OFFSET	PIPE NO.	C-C (FT)	TO STRUCT.	INL/CB TYPE & COVER		MH TYPE & COVER		RIM/ GRATE ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	INLET ELEV.	DISCH. ELEV.	LENGTH (FT)	SLOPE (%)	PIPE CLASS	REMARKS
1	20+30.00	0.00' LT	P-1	223.0	3	--	--	4 FT	J	154.66	6.66	18	148.00	147.00	223.0	0.45	IV	
1A	20+30.00	24.00' LT	P-1A	23.0	1	CB SPECIAL	R	--	--	154.15	5.40	12	148.75	148.65	23.0	0.43	V	CONNECT EX. STORM SEWER, 8" N I.E. 150.62
1B	20+30.00	24.00' RT	P-1B	23.0	1	CB SPECIAL	R	--	--	154.14	5.39	12	148.75	148.65	23.0	0.43	V	
2	109+16.21	5.73' LT	P-2	79.0	3	--	--	4 FT	J	154.54	7.94	24	146.60	146.50	79.0	0.13	IV	CONNECT EX. STORM SEWER, 10" S I.E. 146.60
3	22+53.35	0.00' LT	P-3	34.0	4	--	--	7 FT	J	155.30	8.80	24	146.50	146.25	34.0	0.75	IV	
3A	22+25.00	24.00' LT	P-3A	36.0	3	CB SPECIAL	R	--	--	154.55	3.00	12	151.55	151.18	36.0	1.01	V	
4	22+86.85	0.00' LT	P-4	23.0	5	--	--	5 FT	J	155.40	9.40	19X30	146.00	145.65	23.0	1.54	IV	
4B	23+00.00	24.00' RT	P-4B	27.0	4	CB SPECIAL	R	--	--	155.00	5.35	12	149.65	149.50	27.0	0.56	V	
5	22+95.32	24.00' LT	--	--	102	--	--	5 FT	R-1	154.76	9.36	27	145.40	--	--	--	--	CONNECT EX. STORM SEWER, 8" N I.E. 147.37, 27" E I.E. 145.40
6	119+05.00	5.50' LT	P-6	25.0	7	--	--	4 FT	J	154.42	5.92	12	148.50	148.10	25.0	1.58	V	CONNECT EX. STORM SEWER, 12" S I.E. 149.22
7	119+28.97	15.00' LT	P-7	30.0	8	CB SPECIAL	R	--	--	153.62	5.52	12	148.10	147.70	30.0	1.35	V	CONNECT EX. STORM SEWER, 12" N I.E. 147.65
8	26+23.32	12.33' RT	P-8	--	102	--	--	4 FT	J	153.38	5.68	12	147.70	--	--	--	V	
8A	25+93.03	24.00' RT	P-8A	30.0	8	CB SPECIAL	R-1	--	--	154.17	5.87	12	148.30	148.00	30.0	0.99	V	
8B	119+65.80	15.00' RT	P-8B	29.0	8	CB SPECIAL	R-1	--	--	152.44	4.64	12	147.80	147.65	29.0	0.51	V	CONNECT EX. STORM SEWER, 6" E I.E. 148.40
10	179+50.00	4.50' RT	P-10	44.0	11	--	--	4 FT	J	149.71	5.66	21	144.05	143.25	44.0	1.81	IV	CONNECT EX. STORM SEWER, 12" W I.E. 144.42
10A	179+50.00	15.00' RT	P-10A	10.0	10	CB SPECIAL	R	--	--	149.40	5.20	12	144.20	144.15	10.0	0.51	V	
10B	179+50.00	15.00' LT	P-10B	19.0	10	CB SPECIAL	R	--	--	149.36	5.01	12	144.35	144.15	19.0	1.06	V	
11	179+94.09	6.11' RT	P-11	73.0	12	--	--	4 FT	J	150.27	7.27	24	143.00	141.76	73.0	1.70	IV	
--	--	--	P-11A	48.0	11	--	--	--	--	--	--	12	143.94	143.90	48.0	0.09	V	
12	27+61.59	24.00' RT	P-12	36.0	13	--	--	9 FT	R-1	148.94	7.44	27	141.50	140.40	36.0	3.05	IV	CONNECT EX. STORM SEWER, 27" W I.E. 141.80
12A	27+72.00	42.00' LT	P-12A	22.0	12	INL 3 FT	C	--	--	148.20	3.50	12	144.70	144.48	22.0	0.99	V	
13	27+92.67	0.00' LT	P-13	57.0	15	--	--	5 FT	J	148.23	7.83	27	140.40	138.70	57.0	2.97	IV	
103	--	--	P-14	66.0	15	--	--	--	--	146.50	--	12	141.30	141.00	66.0	0.45	V	EXISTING STRUCTURE, ADJUST RIM.
15	28+50.00	0.00' LT	P-15	204.0	21	--	--	5 FT	J	146.28	7.83	30	138.45	132.00	204.0	3.16	IV	
16A	28+86.50	82.5' RT	P-16A	52.0	16B	INL 3 FT	C	--	--	143.50	4.01	12	139.50	138.04	52.0	2.79	V	CORE HOLE INTO EX. STRUCTURE 16B TO CONNECT
16B	128+28.00	33.60' LT	--	--	105	--	C	--	--	141.80	--	--	--	--	--	--	--	
106	--	--	P-16	53.0	17	--	--	--	--	141.63	--	18	135.34	134.20	53.0	2.17	IV	
17	129+90.00	15.50' LT	P-17	30.0	18	CB SPECIAL	R	--	--	140.54	6.34	18	134.20	133.70	30.0	1.65	IV	
18	30+24.13	23.00' RT	P-18	38.0	21	--	--	5 FT	J	140.41	6.71	18	133.70	133.00	38.0	1.85	IV	
18A	29+93.78	24.00' RT	P-18A	30.0	18	CB SPECIAL	R-1	--	--	141.22	5.67	12	135.55	135.40	30.0	0.50	V	
18B	129+62.68	15.50' RT	P-18B	30.0	18	CB SPECIAL	R-1	--	--	139.46	4.21	12	135.25	135.10	30.0	0.51	V	

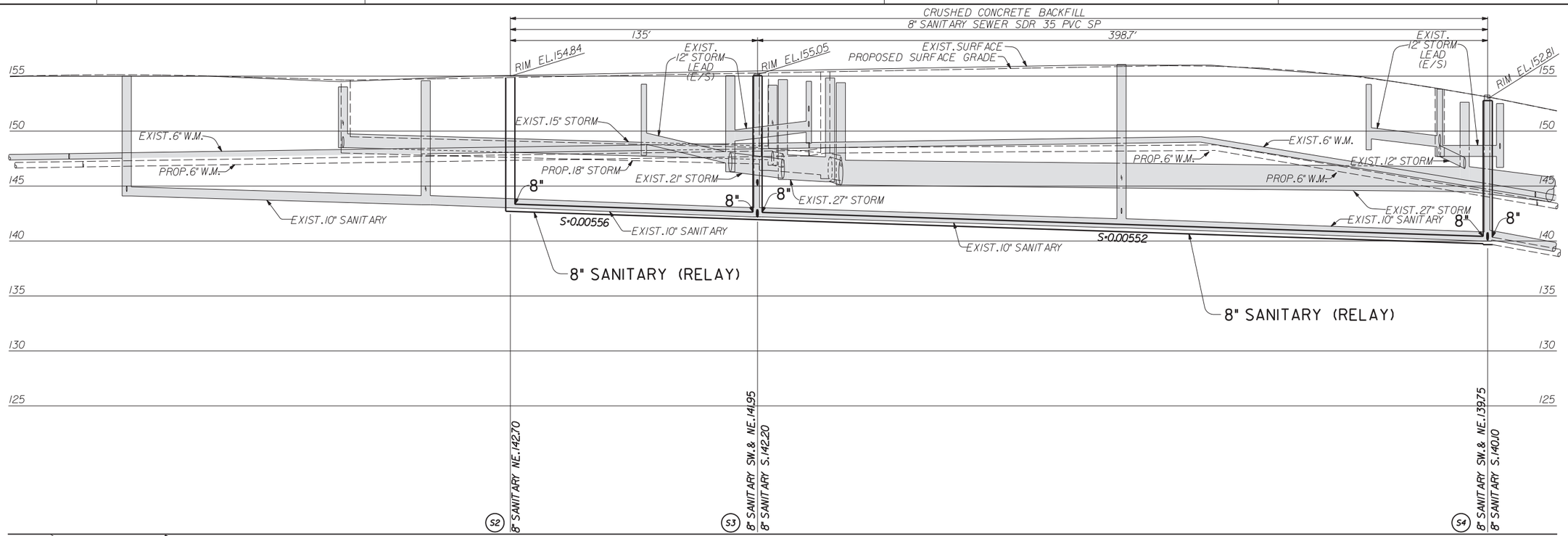
STORM SEWER NOTES:

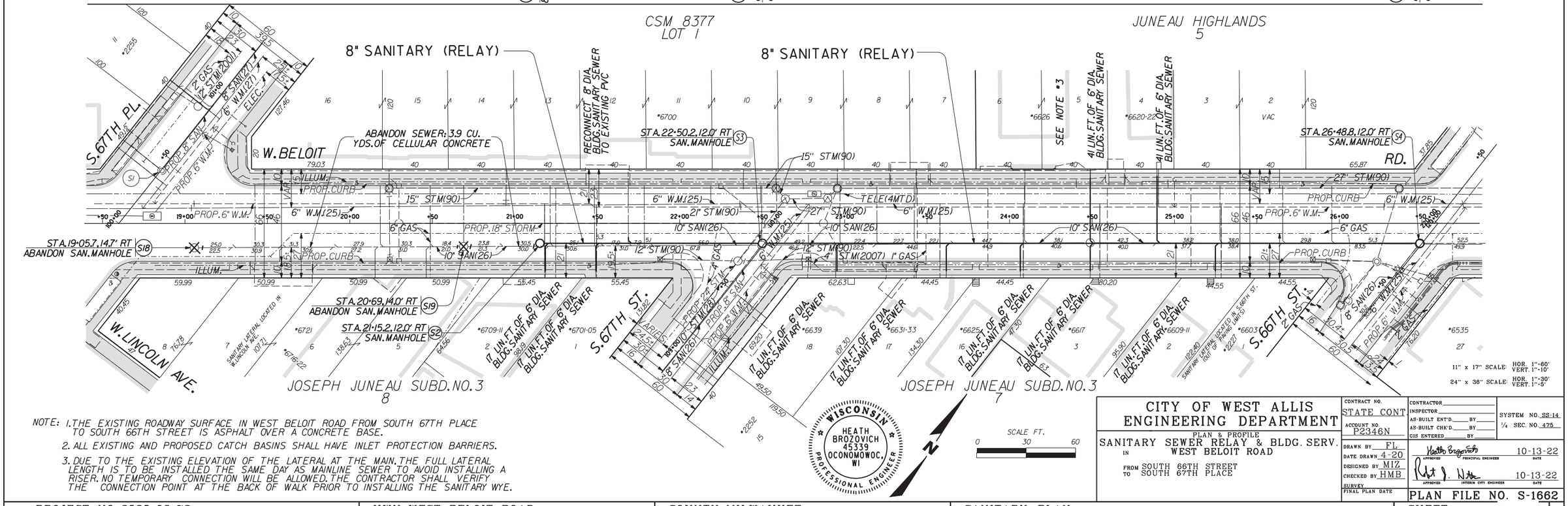
1. STATION / OFFSETS TO MANHOLES ARE GIVEN TO THE CENTER OF STRUCTURE.
2. STATION / OFFSETS TO MANHOLES WITH INLET COVERS ARE GIVEN TO THE FACE OF CURB.
3. STATION / OFFSETS TO INLETS AND CATCH BASINS ARE GIVEN TO THE FACE OF CURB.
4. MANHOLE RIM/GRATE ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
5. CATCH BASIN AND INLET RIM/GRATE ELEVATIONS ARE GIVEN TO THE FLANGE LINE.
6. DEPTH OF MANHOLES, CATCH BASINS AND INLETS ARE MEASURED FROM THE LOWEST INVERT OF THE STRUCTURE TO THE RIM/GRATE ELEVATION.
7. PIPE LENGTHS FOR STRUCTURES ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
8. CONTRACTOR SHALL VERIFY DEPTH OF ALL EXISTING STORM SEWER STRUCTURES PRIOR TO BEGINNING WORK AND SHALL REPORT ANY DISCREPANCIES TO ENGINEER.

STRUCT. NO.	STATION	OFFSET	PIPE NO.	C-C (FT)	TO STRUCT.	INL/CB TYPE & COVER		MH TYPE & COVER		RIM/ GRATE ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	INLET ELEV.	DISCH. ELEV.	LENGTH (FT)	SLOPE (%)	PIPE CLASS	REMARKS
19	230+82.12	34.89' LT	P-19	28.0	20	--	--	4 FT	C	139.38	3.63	12	135.75	135.50	28.0	0.88	V	CONNECT EX. STORM SEWER, 12" W I.E. 135.84
20	230+82.31	5.00' LT	P-20	86.0	21	--	--	4 FT	J	319.09	183.69	12	135.40	134.50	86.0	1.04	V	
21	30+54.10	0.00' LT	P-21	274.0	22	--	--	8 FT	J	140.09	9.09	36	131.00	125.50	274.0	2.01	IV	
22	33+28.28	0.00' LT	P-22	73.0	24	--	--	6 FT	J	132.96	7.46	36	125.50	124.50	73.0	1.38	IV	
22A	33+20.00	24.00' LT	P-22A	25.0	22	CB SPECIAL	R-1	--	--	132.74	5.49	12	127.25	127.15	25.0	0.41	V	
22B	33+28.28	24.00' RT	P-22B	23.0	22	CB SPECIAL	R-1	--	--	132.51	4.31	12	128.20	128.10	23.0	0.43	V	
23	139+34.68	7.50' LT	P-23	59.0	24	--	--	6 FT	J	131.83	5.48	15	126.35	126.00	59.0	0.59	V	CONNECT EX. STORM SEWER, 12" S I.E. 126.62
107	--	--	P-23A	4.0	23	--	--	--	--	131.58	--	12	127.31	127.19	4.0	3.00	V	CONCRETE COLLAR REQUIRED
108	--	--	P-23B	4.0	23	--	--	--	--	130.51	--	12	126.54	126.52	4.0	0.50	V	CONCRETE COLLAR REQUIRED
24	34+00.35	0.00' LT	P-24	313.0	25	--	--	8 FT	J	131.09	6.59	36	124.50	117.00	313.0	2.40	IV	
25	37+13.78	0.00' LT	P-25	70.0	27	--	--	5 FT	J	123.88	6.88	36	117.00	115.75	70.0	1.78	IV	
25A	37+13.78	24.00' LT	P-25A	23.0	25	CB SPECIAL	R-1	--	--	123.44	5.09	12	118.35	118.00	23.0	1.54	V	
25B	37+09.61	24.00' RT	P-25B	24.0	25	CB SPECIAL	R-1	--	--	123.59	4.49	12	119.10	119.00	24.0	0.42	V	
26	149+36.09	6.00' LT	P-26	59.0	27	--	--	5 FT	J	122.14	5.64	15	116.50	116.25	59.0	0.42	V	CONNECT EX. STORM SEWER, 12" S I.E. 116.60
109	--	--	P-26A	4.0	26	--	--	--	--	121.82	--	12	117.11	116.94	4.0	4.25	V	CONCRETE COLLAR REQUIRED
26B	149+50.00	15.00' RT	P-26B	24.0	26	CB SPECIAL	R-1	--	--	121.56	4.31	12	117.25	117.15	24.0	0.41	V	
27	37+83.68	0.00' LT	P-27	129.0	28	--	--	7 FT	J	122.51	7.01	36	115.50	113.05	129.0	1.90	IV	
28	39+13.12	0.00' LT	P-28	29.0	29	--	--	6 FT	J	120.44	7.39	36	113.05	112.65	29.0	1.39	IV	
28A	39+13.12	24.00' LT	P-28A	23.0	28	CB SPECIAL	R-1	--	--	120.00	5.30	12	114.70	114.60	23.0	0.43	V	
29	39+30.70	24.00' RT	P-29	87.0	30	--	--	6 FT	R-1	119.61	6.96	36	112.65	111.40	87.0	1.43	IV	CONNECT NEW 6" PVC S I.E. 115.10
30	40+17.90	24.00' RT	P-30	8.0	113	--	--	5 FT	R-1	118.25	7.29	36	110.96	110.37	8.0	7.44	IV V	CONCRETE COLLAR REQUIRED
31	41+38.30	21.34' RT	P-31	4.0	--	--	--	4 FT	J	116.41	5.48	18	110.93	110.89	4.0	1.00	IV	CONCRETE COLLAR REQUIRED
31A	159+66.63	17.6' RT	P-31A	32.0	31	CB SPECIAL	R-1	--	--	115.91	4.16	12	111.75	111.60	32.0	0.47	V	
115	--	--	P-31B	4.0	31	--	--	--	--	116.31	--	18	111.65	111.61	4.0	1.00	IV	CONCRETE COLLAR REQUIRED
32	42+38.78	24.00' LT	P-32	12.0	116	CB SPECIAL	R-1	--	--	115.18	3.48	12	111.70	110.25	11.6	12.50	V	CONNECT EX. STORM SEWER, 8" N I.E. 111.82 CONCRETE COLLAR REQUIRED
32A	42+75.00	24.00' LT	P-32A	36.0	32	CB SPECIAL	R-1	--	--	115.03	3.08	12	111.95	111.80	36.0	0.41	V	
32B	43+00.00	24.00' LT	P-32B	25.0	32A	CB SPECIAL	R	--	--	114.96	2.91	12	112.05	111.95	25.0	0.40	V	
33	42+41.66	24.00' RT	P-33	4.0	116	CB SPECIAL	R-1	--	--	115.16	3.93	12	111.23	110.89	4.0	8.50	V	CONCRETE COLLAR REQUIRED
33A	42+75.00	24.00' RT	P-33A	33.0	33	CB SPECIAL	R-1	--	--	115.03	3.53	12	111.50	111.30	33.0	0.60	V	
33B	42+75.00	24.00' RT	P-33B	25.0	33A	CB SPECIAL	R	--	--	114.96	3.36	12	111.60	111.50	25.0	0.40	V	

STORM SEWER NOTES:

1. STATION / OFFSETS TO MANHOLES ARE GIVEN TO THE CENTER OF STRUCTURE.
2. STATION / OFFSETS TO MANHOLES WITH INLET COVERS ARE GIVEN TO THE FACE OF CURB.
3. STATION / OFFSETS TO INLETS AND CATCH BASINS ARE GIVEN TO THE FACE OF CURB.
4. MANHOLE RIM/GRATE ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
5. CATCH BASIN AND INLET RIM/GRATE ELEVATIONS ARE GIVEN TO THE FLANGE LINE.
6. DEPTH OF MANHOLES, CATCH BASINS AND INLETS ARE MEASURED FROM THE LOWEST INVERT OF THE STRUCTURE TO THE RIM/GRATE ELEVATION.
7. PIPE LENGTHS FOR STRUCTURES ARE SHOWN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
8. CONTRACTOR SHALL VERIFY DEPTH OF ALL EXISTING STORM SEWER STRUCTURES PRIOR TO BEGINNING WORK AND SHALL REPORT ANY DISCREPANCIES TO ENGINEER.





NOTE: 1. THE EXISTING ROADWAY SURFACE IN WEST BELOIT ROAD FROM SOUTH 67TH PLACE TO SOUTH 66TH STREET IS ASPHALT OVER A CONCRETE BASE.

2. ALL EXISTING AND PROPOSED CATCH BASINS SHALL HAVE INLET PROTECTION BARRIERS.

3. DUE TO THE EXISTING ELEVATION OF THE LATERAL AT THE MAIN, THE FULL LATERAL LENGTH IS TO BE INSTALLED THE SAME DAY AS MAINLINE SEWER TO AVOID INSTALLING A RISER. NO TEMPORARY CONNECTION WILL BE ALLOWED. THE CONTRACTOR SHALL VERIFY THE CONNECTION POINT AT THE BACK OF WALK PRIOR TO INSTALLING THE SANITARY WYE.

WISCONSIN HEATH BROZOVICH 45339 OCONOMOWOC, WI PROFESSIONAL ENGINEER

11" x 17" SCALE: HOR. 1"=60' VERT. 1"=10'
24" x 36" SCALE: HOR. 1"=30' VERT. 1"=5'

CITY OF WEST ALLIS ENGINEERING DEPARTMENT

PLAN & PROFILE
SANITARY SEWER RELAY & BLDG. SERV.
IN WEST BELOIT ROAD
FROM SOUTH 66TH STREET
TO SOUTH 67TH PLACE

CONTRACT NO. STATE CONT
ACCOUNT NO. P2346N
DRAWN BY FL
DATE DRAWN 4-20
DESIGNED BY MIZ
CHECKED BY HMB
SURVEY FINAL PLAN DATE

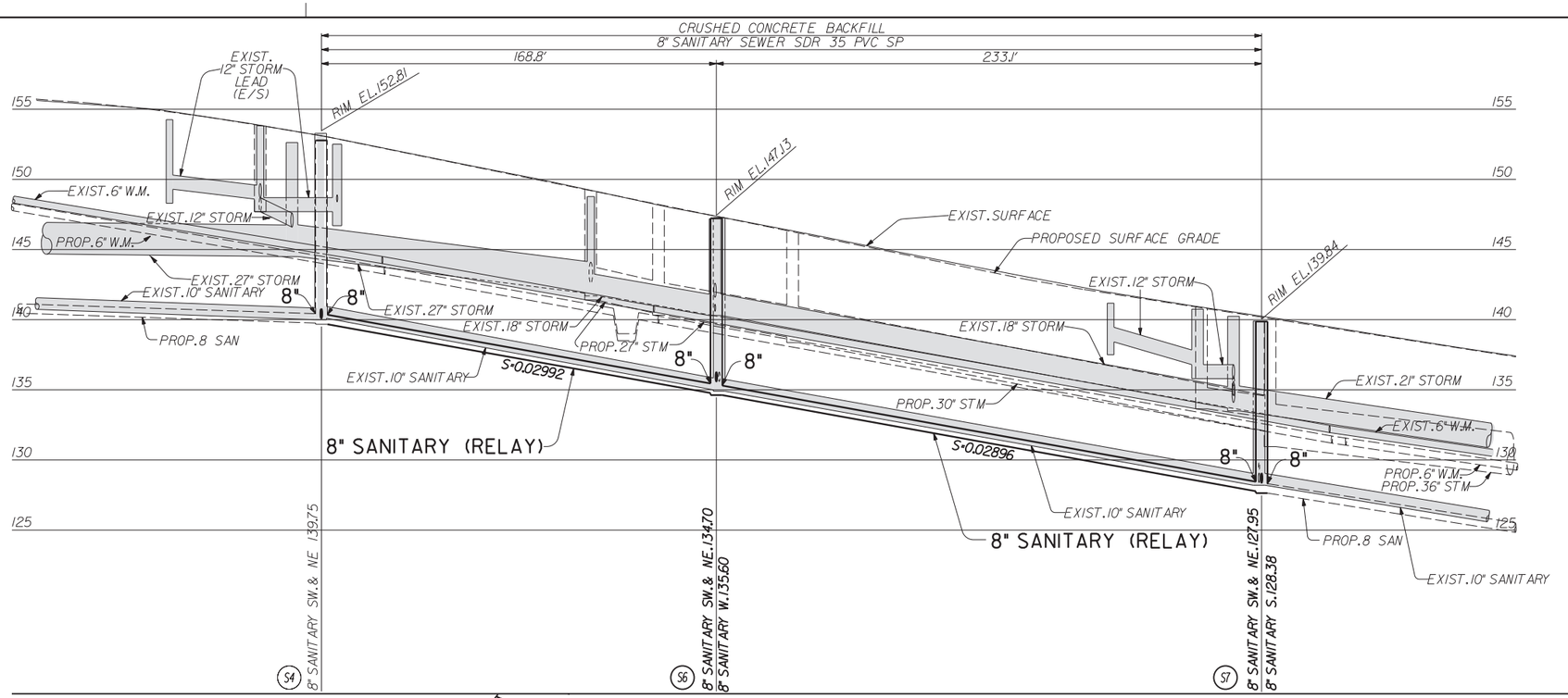
CONTRACTOR
INSPECTOR
AS-BUILT ENT'D. BY
AS-BUILT CHK'D. BY
GIS ENTERED BY

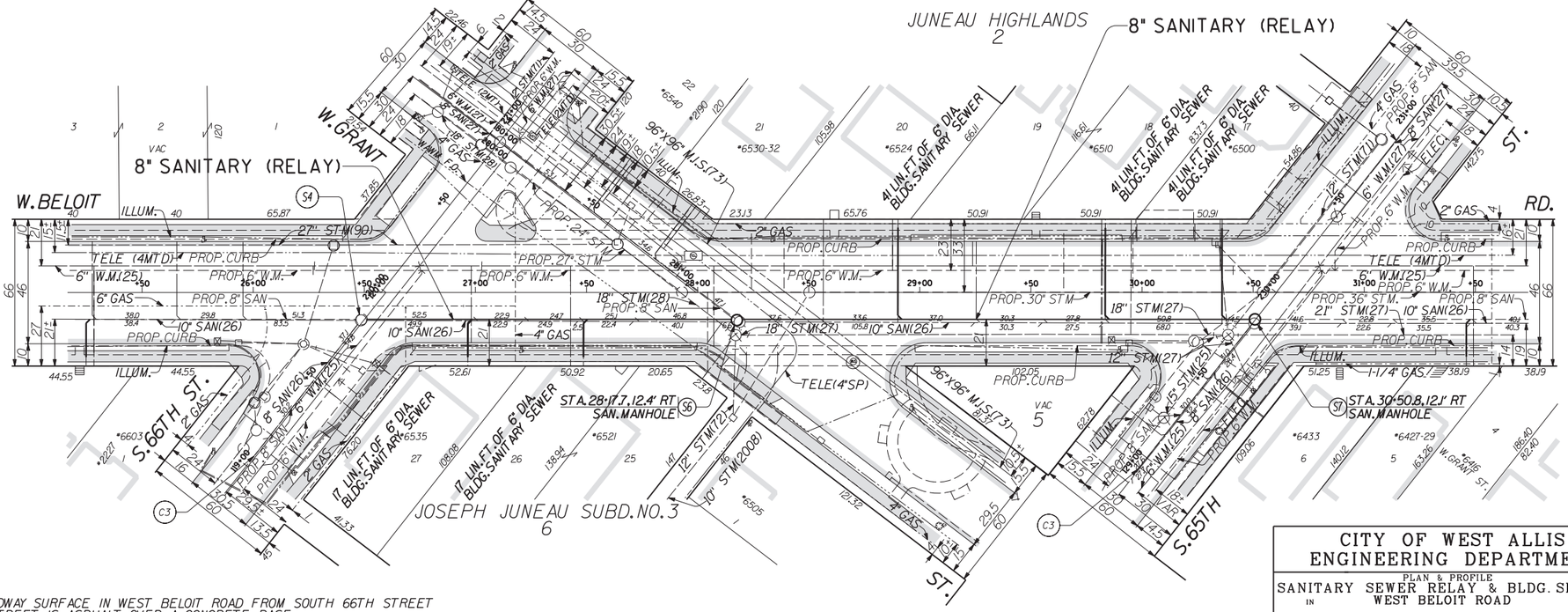
SYSTEM NO. SS-14
¼ SEC. NO. 475

Kristy Brozovich APPROVED PRINCIPAL ENGINEER 10-13-22 DATE
APPROVED INTERIM CITY ENGINEER DATE 10-13-22

PLAN FILE NO. S-1662

PROJECT NO: 2525-03-72 | HWY: WEST BELOIT ROAD | COUNTY: MILWAUKEE | SANITARY PLAN | SHEET 71





NOTE: 1. THE EXISTING ROADWAY SURFACE IN WEST BELOIT ROAD FROM SOUTH 66TH STREET TO SOUTH 65TH STREET IS ASPHALT OVER A CONCRETE BASE.
2. ALL EXISTING AND PROPOSED CATCH BASINS SHALL HAVE INLET PROTECTION BARRIERS.

WISCONSIN
HEATH BROZOVICH 45339 OCONOMOWOC, WI
PROFESSIONAL ENGINEER

11" x 17" SCALE: HOR. 1"=60' VERT. 1"=10'
24" x 36" SCALE: HOR. 1"=30' VERT. 1"=5'

CITY OF WEST ALLIS ENGINEERING DEPARTMENT

PLAN & PROFILE
SANITARY SEWER RELAY & BLDG. SERV.
IN WEST BELOIT ROAD
FROM SOUTH 65TH STREET
TO SOUTH 66TH STREET

CONTRACT NO.	STATE CONT
ACCOUNT NO.	P2346N
DRAWN BY	FL
DATE DRAWN	4-20
DESIGNED BY	MIZ
CHECKED BY	HMB
SURVEY	
FINAL PLAN DATE	

CONTRACTOR
INSPECTOR
AS-BUILT ENT'D BY
AS-BUILT CHK'D BY
GIS ENTERED BY

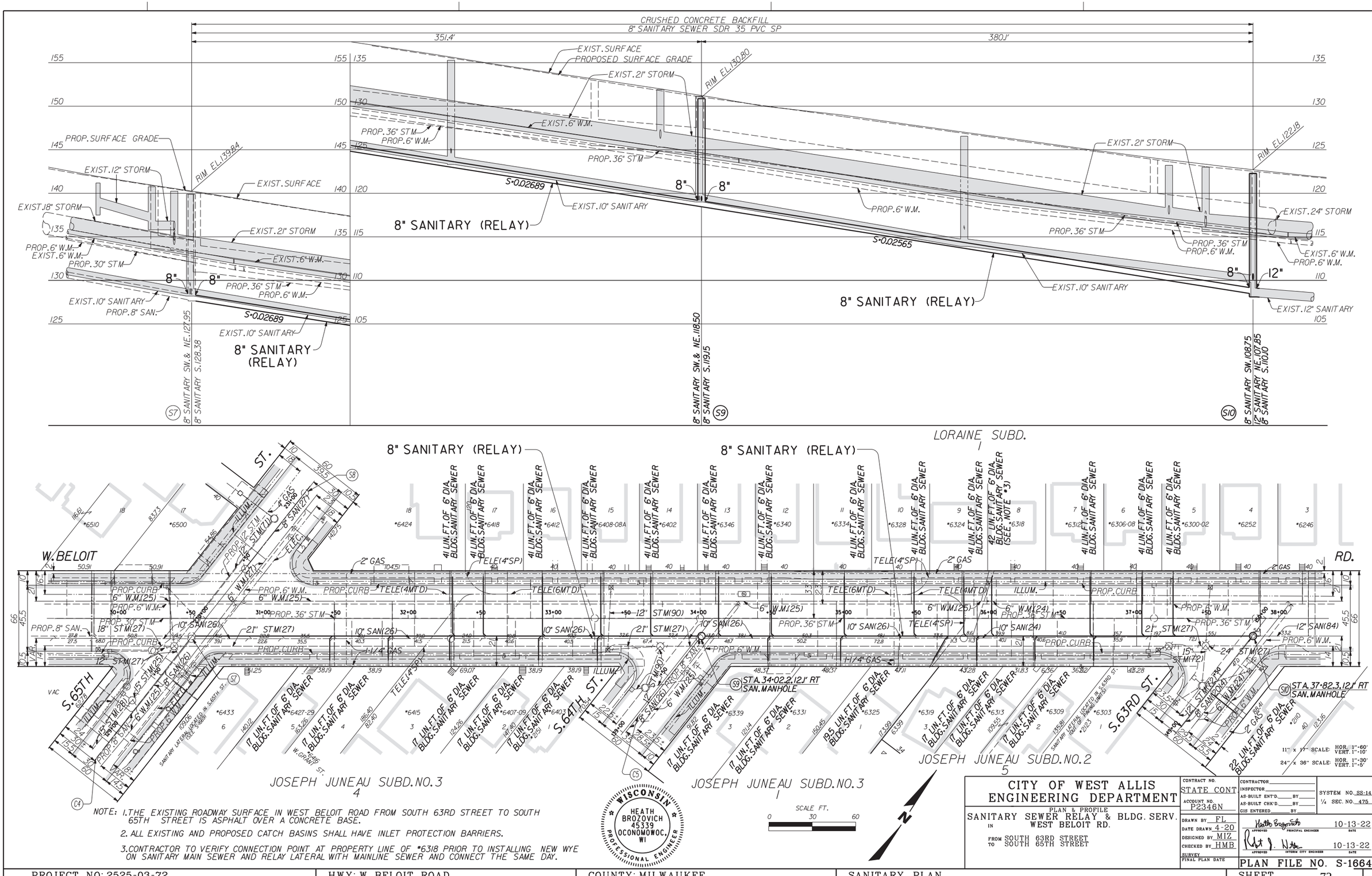
SYSTEM NO. SS-14
¼ SEC. NO. 476

Heath Brozovich 10-13-22
APPROVED PRINCIPAL ENGINEER DATE

Robert J. Weber 10-13-22
APPROVED INTERIM CITY ENGINEER DATE

PLAN FILE NO. S-1663

PROJECT NO: 2525-03-72	HWY: WEST BELOIT ROAD	COUNTY: MILWAUKEE	SANITARY PLAN	SHEET 72



NOTE: 1. THE EXISTING ROADWAY SURFACE IN WEST BELOIT ROAD FROM SOUTH 63RD STREET TO SOUTH 65TH STREET IS ASPHALT OVER A CONCRETE BASE.

2. ALL EXISTING AND PROPOSED CATCH BASINS SHALL HAVE INLET PROTECTION BARRIERS.

3. CONTRACTOR TO VERIFY CONNECTION POINT AT PROPERTY LINE OF #6318 PRIOR TO INSTALLING NEW WYE ON SANITARY MAIN SEWER AND RELAY LATERAL WITH MAINLINE SEWER AND CONNECT THE SAME DAY.

WISCONSIN
HEATH BROZOVICH 45339 OCONOMOWOC, WI
PROFESSIONAL ENGINEER

CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

PLAN & PROFILE
SANITARY SEWER RELAY & BLDG. SERV. IN WEST BELOIT RD.
FROM SOUTH 63RD STREET TO SOUTH 65TH STREET

CONTRACT NO. STATE CONT
ACCOUNT NO. P2346N
DRAWN BY FL
DATE DRAWN 4-20
DESIGNED BY MIZ
CHECKED BY HMB
SURVEY FINAL PLAN DATE

CONTRACTOR
INSPECTOR
AS-BUILT ENT'D BY
AS-BUILT CHK'D BY
GIS ENTERED BY

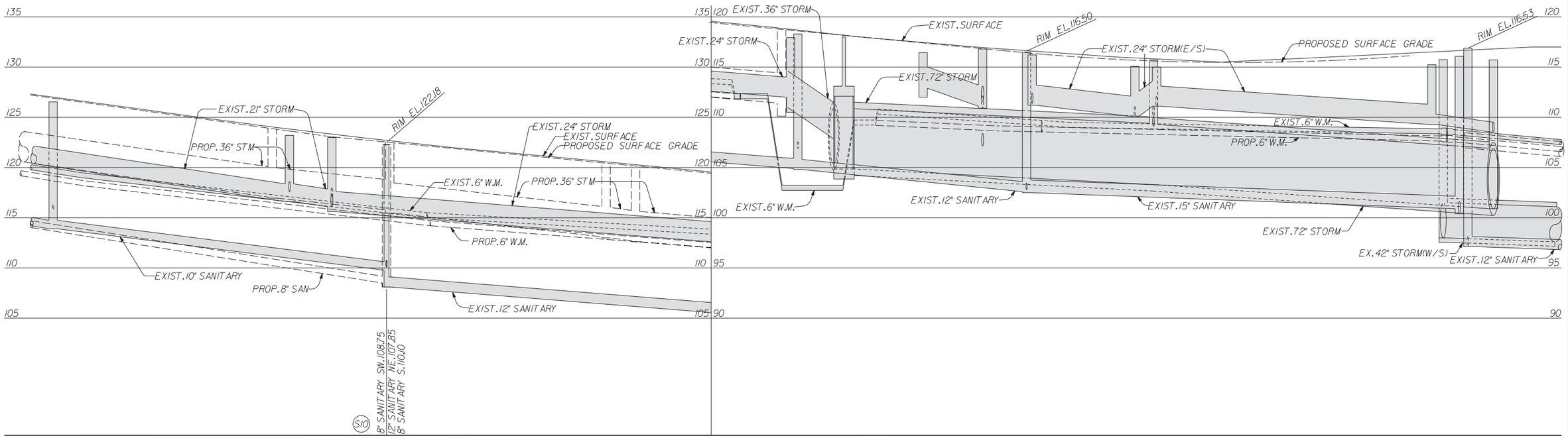
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¼ SEC. NO. 475

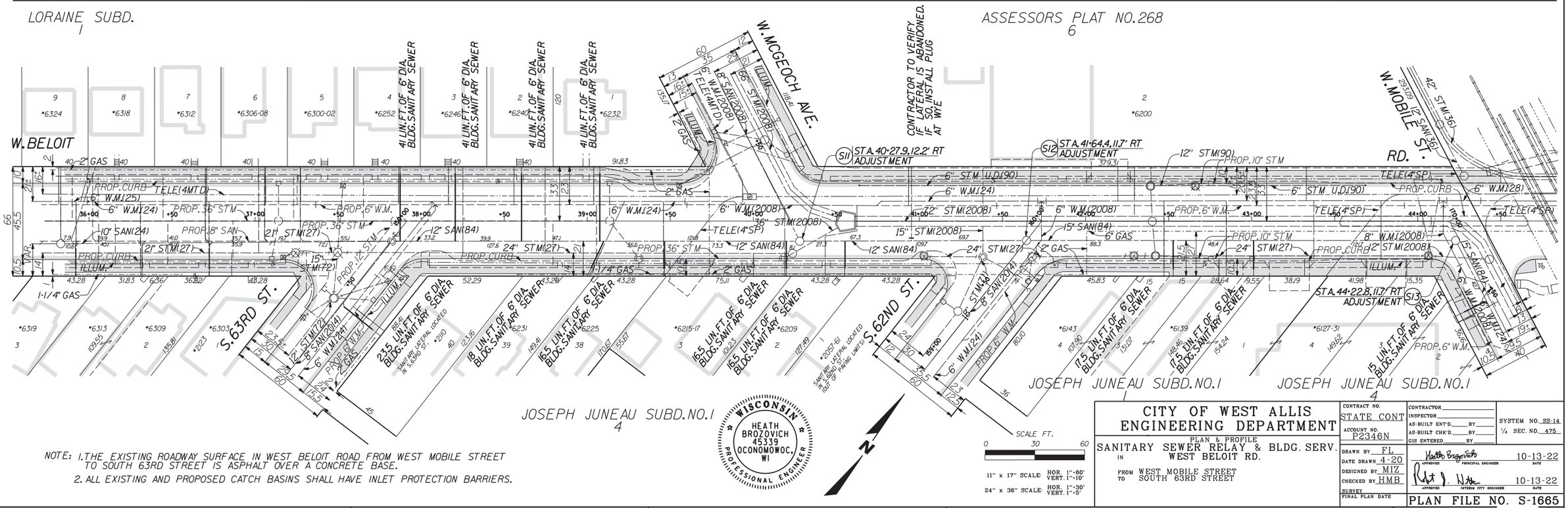
Heath Brozovich 10-13-22
APPROVED PRINCIPAL ENGINEER DATE

Richard J. Weiss 10-13-22
APPROVED INTERIM CITY ENGINEER DATE

PLAN FILE NO. S-1664

PROJECT NO: 2525-03-72	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	SANITARY PLAN	SHEET 73





NOTE: 1. THE EXISTING ROADWAY SURFACE IN WEST BELOIT ROAD FROM WEST MOBILE STREET TO SOUTH 63RD STREET IS ASPHALT OVER A CONCRETE BASE.
2. ALL EXISTING AND PROPOSED CATCH BASINS SHALL HAVE INLET PROTECTION BARRIERS.

CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

PLAN & PROFILE
SANITARY SEWER RELAY & BLDG. SERV.
IN WEST BELOIT RD.
FROM WEST MOBILE STREET
TO SOUTH 63RD STREET

CONTRACT NO. STATE CONT
ACCOUNT NO. P2346N
DRAWN BY FL
DATE DRAWN 4-20
DESIGNED BY MIZ
CHECKED BY HMB
SURVEY
FINAL PLAN DATE

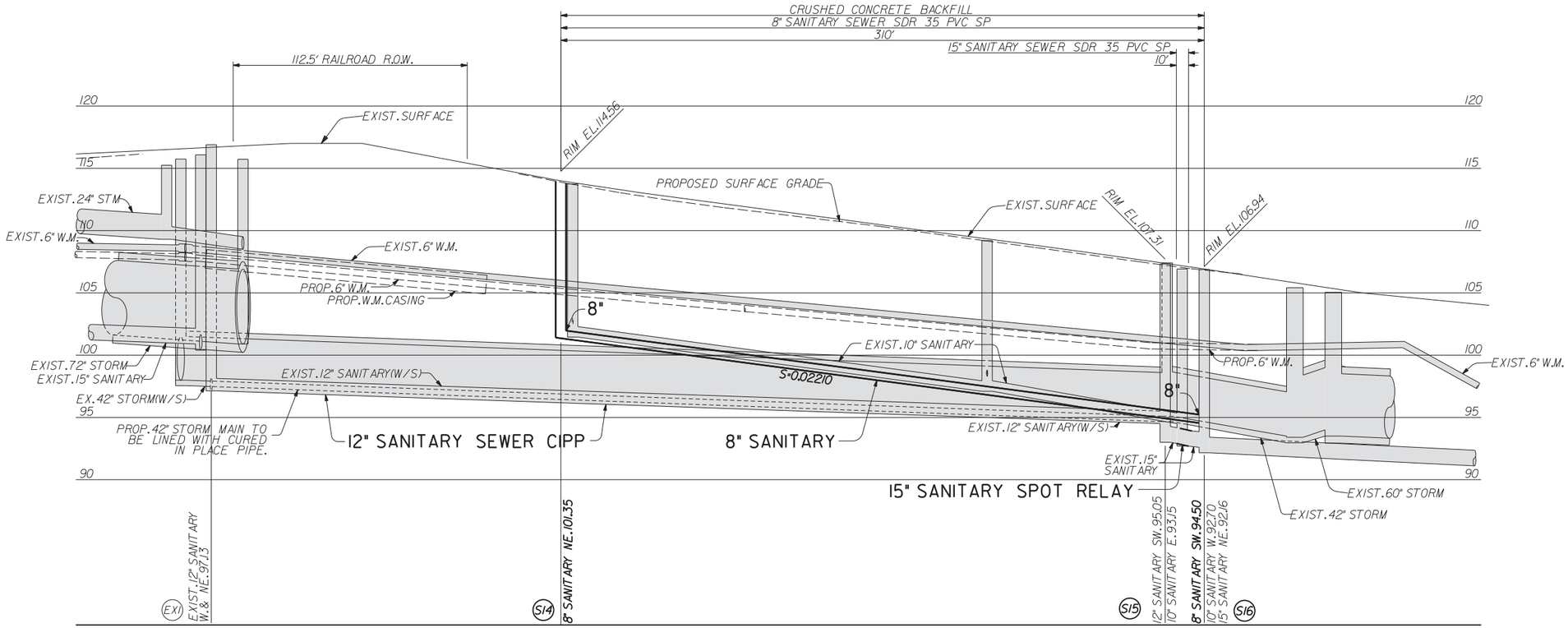
CONTRACTOR
INSPECTOR
AS-BUILT ENT'D BY
AS-BUILT CHK'D BY
GIS ENTERED BY

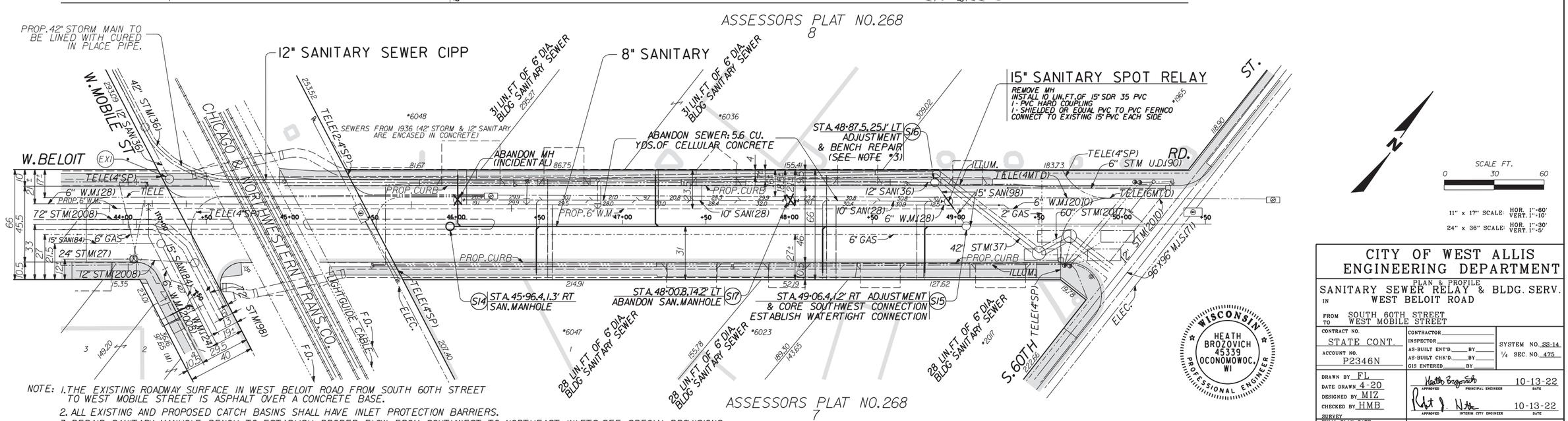
SYSTEM NO. SS-14
1/4 SEC. NO. 475

Heath Brozovich 10-13-22
APPROVED PRINCIPAL ENGINEER DATE
Matt J. Weiss 10-13-22
APPROVED INTERIM CITY ENGINEER DATE

PLAN FILE NO. S-1665

PROJECT NO: 2525-03-72	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	SANITARY PLAN	SHEET 74





NOTE: 1. THE EXISTING ROADWAY SURFACE IN WEST BELOIT ROAD FROM SOUTH 60TH STREET TO WEST MOBILE STREET IS ASPHALT OVER A CONCRETE BASE.
2. ALL EXISTING AND PROPOSED CATCH BASINS SHALL HAVE INLET PROTECTION BARRIERS.
3. REPAIR SANITARY MANHOLE BENCH TO ESTABLISH PROPER FLOW FROM SOUTHWEST TO NORTHEAST INLETS. SEE SPECIAL PROVISIONS.

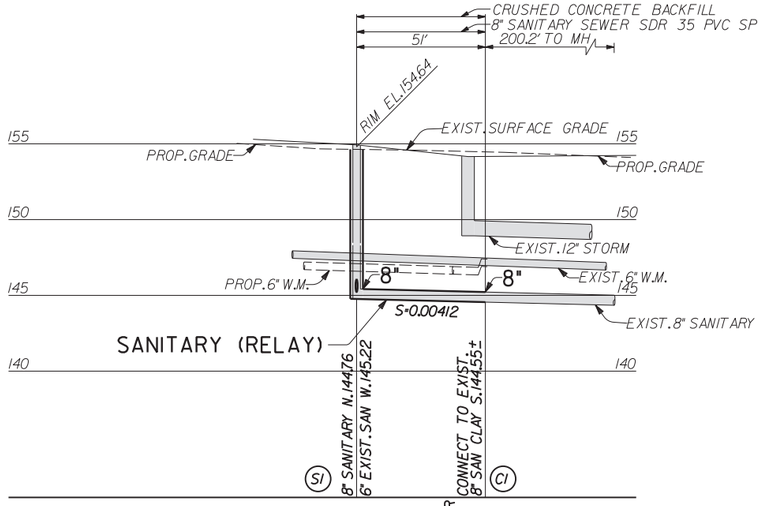
WISCONSIN
HEATH BROZOVICH 45339 OCONOMOWOC, WI
PROFESSIONAL ENGINEER

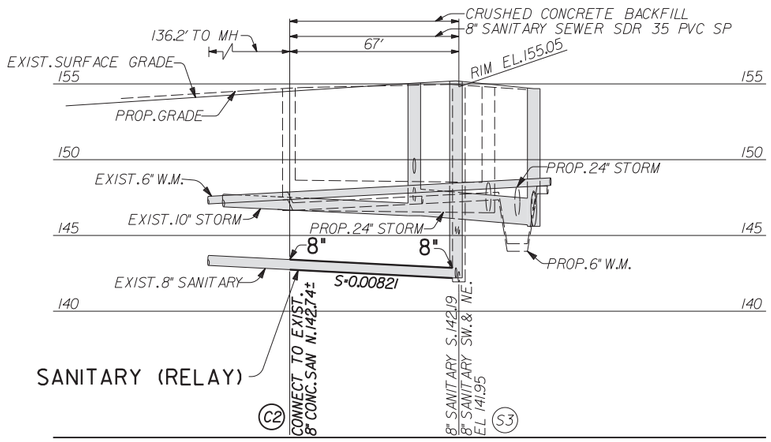
CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

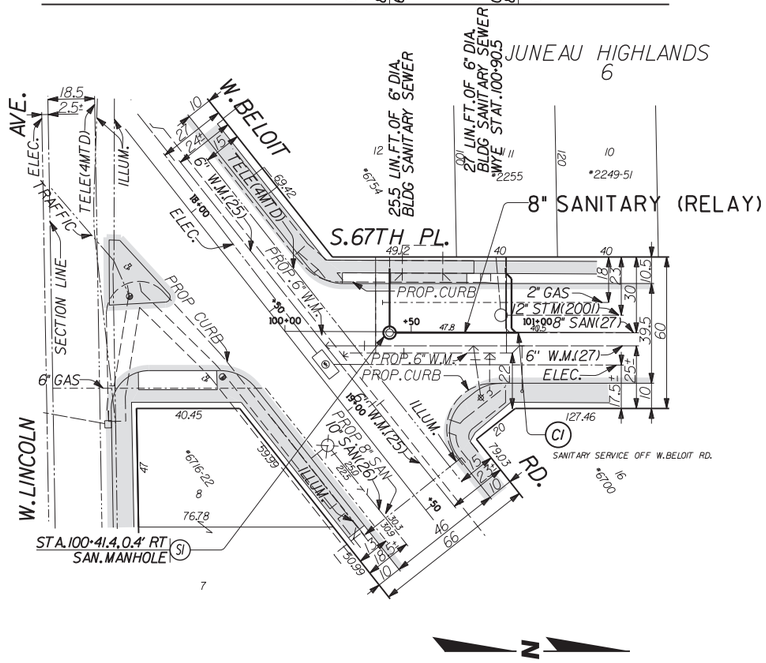
PLAN & PROFILE
SANITARY SEWER RELAY & BLDG. SERV.
IN WEST BELOIT ROAD
FROM SOUTH 60TH STREET
TO WEST MOBILE STREET

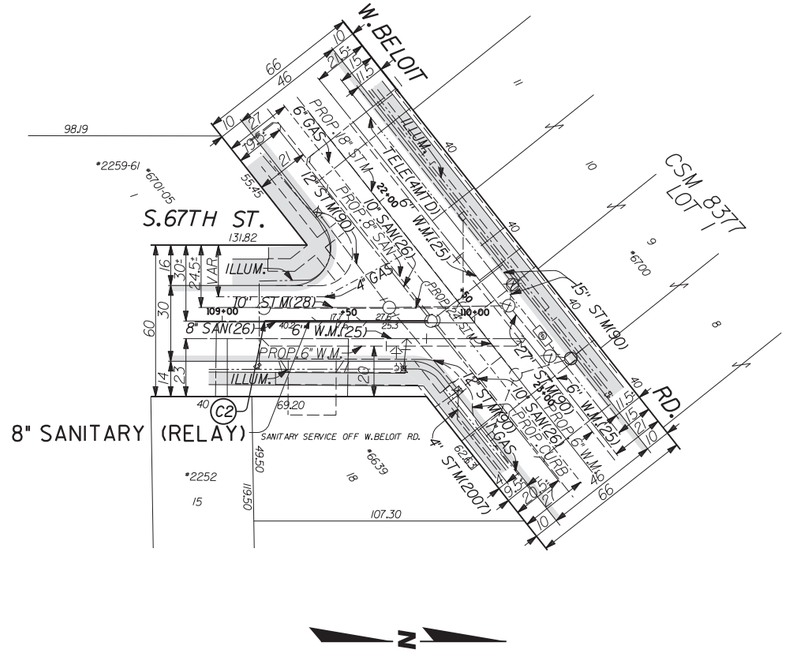
CONTRACT NO. STATE CONT.	CONTRACTOR	
ACCOUNT NO. P2346N	INSPECTOR	SYSTEM NO. SS-14
	AS-BUILT ENT'D. BY	¼ SEC. NO. 475
	AS-BUILT CHK'D. BY	
	GIS ENTERED BY	
DRAWN BY FL	Heath Brozovich	10-13-22
DATE DRAWN 4-20	APPROVED PRINCIPAL ENGINEER	DATE
DESIGNED BY MIZ	Kurt J. Wilke	10-13-22
CHECKED BY HMB	APPROVED INTERIM CITY ENGINEER	DATE
SURVEY FINAL PLAN DATE	PLAN FILE NO. S-1666	

PROJECT NO: 2525-03-72	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	SANITARY PLAN	SHEET 75









SCALE FT.
0 30 60

11" x 17" SCALE: HOR. 1"=60' VERT. 1"=10'
24" x 36" SCALE: HOR. 1"=30' VERT. 1"=5'

NOTE: 1. THE EXISTING ROADWAY SURFACE IN SOUTH 67TH PLACE FROM 51' NORTH OF WEST BELOIT TO WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.

2. THE EXISTING ROADWAY SURFACE IN SOUTH 67TH STREET FROM WEST BELOIT ROAD TO 67' SOUTH OF WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.

3. ALL EXISTING AND PROPOSED CATCH BASINS SHALL HAVE INLET PROTECTION BARRIERS.

WISCONSIN
HEATH BROZOVICH 45339
OCONOMOWOC, WI
PROFESSIONAL ENGINEER

CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

PLAN & PROFILE
SANITARY SEWER RELAY & BLDG. SERV.
IN SOUTH 67TH PLACE | SOUTH 67TH STREET
FROM 51' N/O W. BELOIT RD. | WEST BELOIT ROAD
TO WEST BELOIT ROAD | 67' S/O W. BELOIT RD.

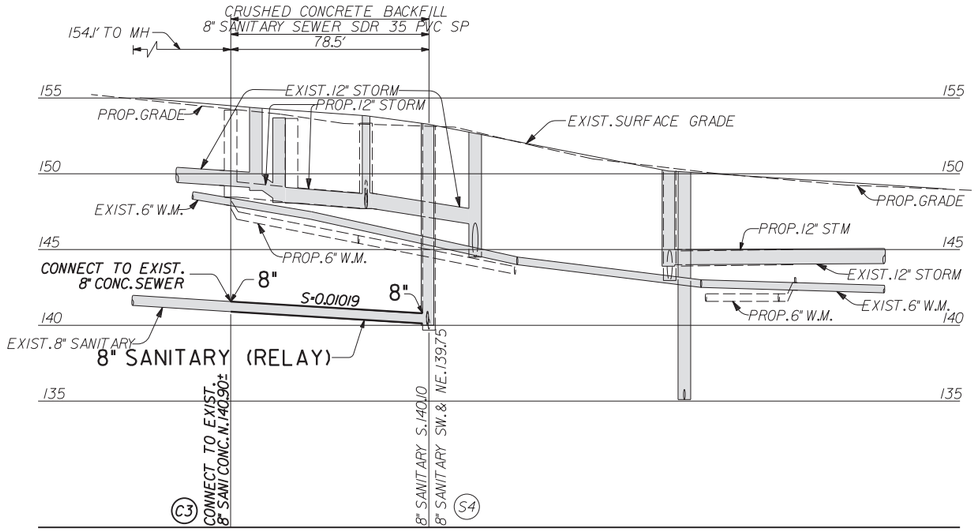
CONTRACT NO. STATE CONT.
ACCOUNT NO. P2346N
CONTRACTOR
INSPECTOR
AS-BUILT ENT'D BY
AS-BUILT CHK'D BY
GIS ENTERED BY
SYSTEM NO. SS-14
¼ SEC. NO. 475

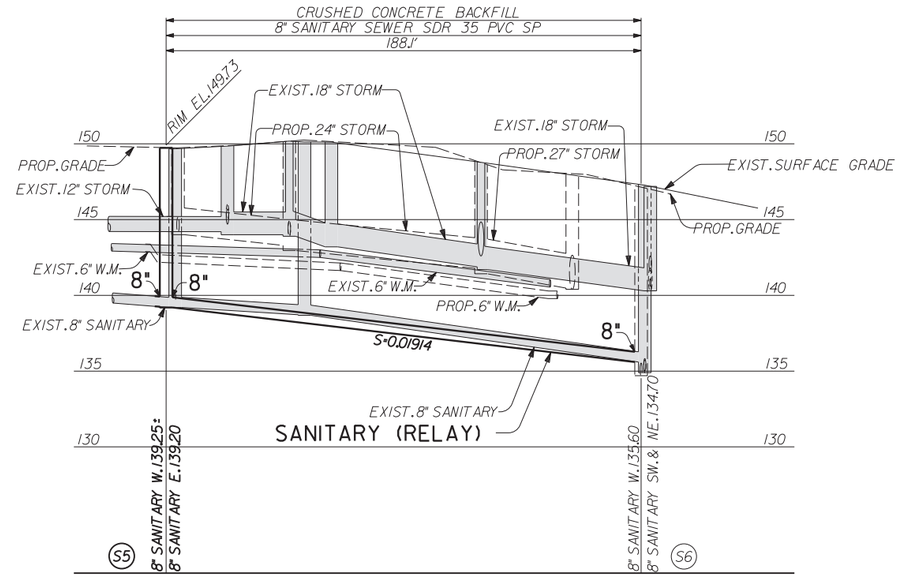
DRAWN BY FL
DATE DRAWN 4-20
DESIGNED BY MIZ
CHECKED BY HMB
SURVEY
FINAL PLAN DATE

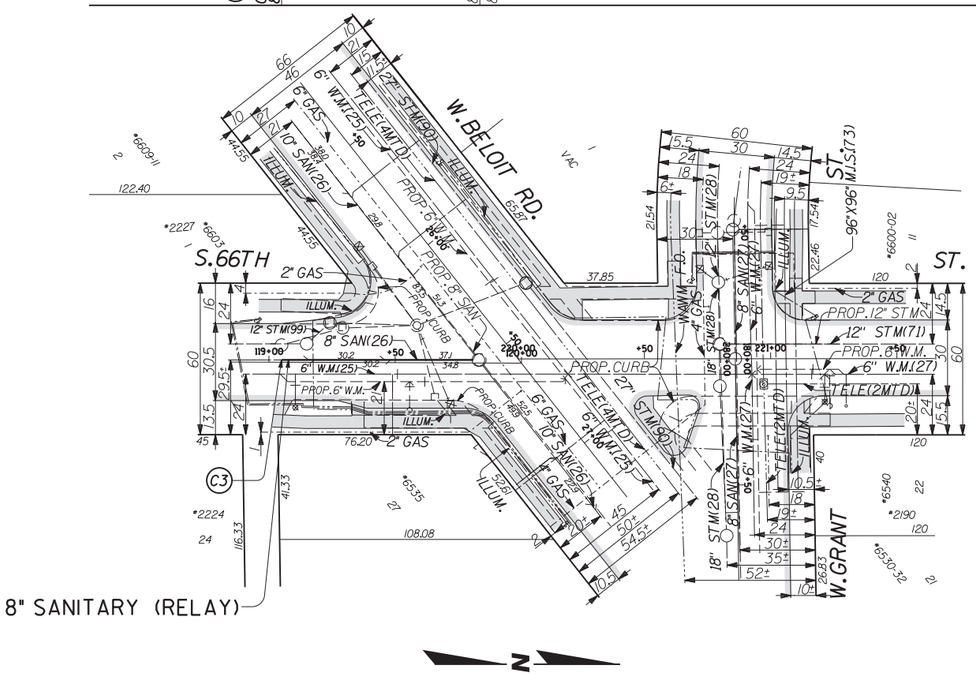
Heath Brozovich 10-13-22
APPROVED PRINCIPAL ENGINEER DATE
Robert J. Hoffer 10-13-22
APPROVED INTERIM CITY ENGINEER DATE

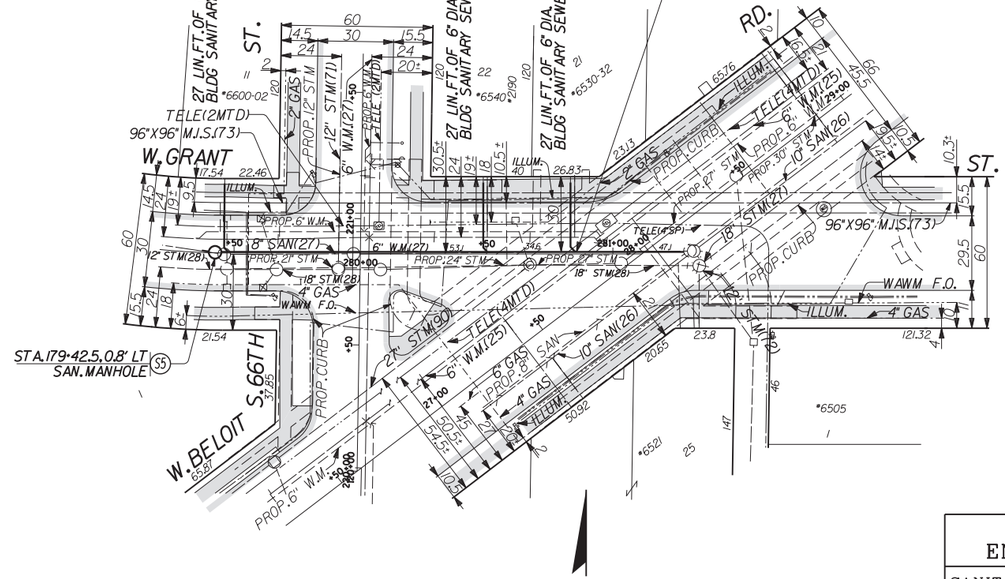
PLAN FILE NO. S-1667

PROJECT NO: 2525-03-72 | HWY: W. BELOIT ROAD | COUNTY: MILWAUKEE | SANITARY PLAN | SHEET 76









NOTE: 1. THE EXISTING ROADWAY SURFACE IN SOUTH 66TH STREET FROM WEST BELOIT ROAD TO 78.5' SOUTH OF WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.

2. THE EXISTING ROADWAY SURFACE IN WEST GRANT STREET FROM 25' WEST OF SOUTH 66TH STREET TO WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.

3. ALL EXISTING AND PROPOSED CATCH BASINS SHALL HAVE INLET PROTECTION BARRIERS.

WISCONSIN
HEATH BROZOVICH 45339 OCONOMOWOC, WI
PROFESSIONAL ENGINEER

SCALE FT. 0 30 60

11" x 17" SCALE: HOR. 1"=60' VERT. 1"=10'

24" x 36" SCALE: HOR. 1"=30' VERT. 1"=5'

CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

PLAN & PROFILE

SANITARY SEWER RELAY & BLDG. SERV.

IN SOUTH 66TH STREET | WEST GRANT STREET

FROM WEST BELOIT ROAD | 25' W/O S. 66TH ST.

TO 78.5' S/O W. BELOIT RD. | WEST BELOIT ROAD

CONTRACT NO. STATE CONT.

ACCOUNT NO. P2346N

CONTRACTOR_____

INSPECTOR_____

AS-BUILT ENT'D.____ BY____

AS-BUILT CHK'D.____ BY____

GIS ENTERED____ BY____

SYSTEM NO. SS-14

¼ SEC. NO. 475

DRAWN BY FL

DATE DRAWN 4-20

DESIGNED BY MIZ

CHECKED BY HMB

SURVEY

FINAL PLAN DATE

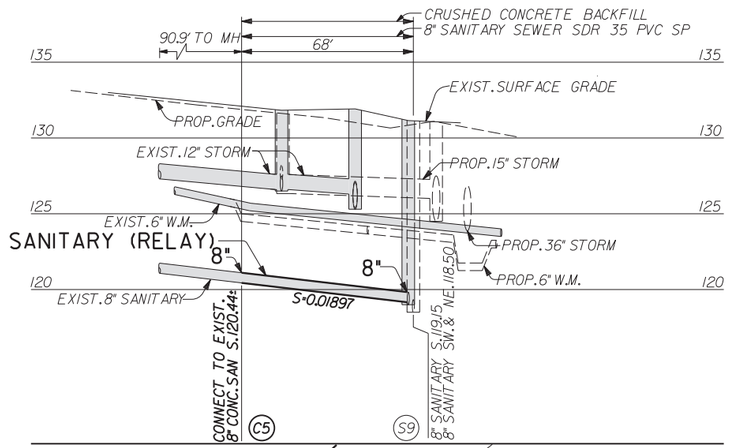
Heath Brozovich APPROVED PRINCIPAL ENGINEER 10-13-22 DATE

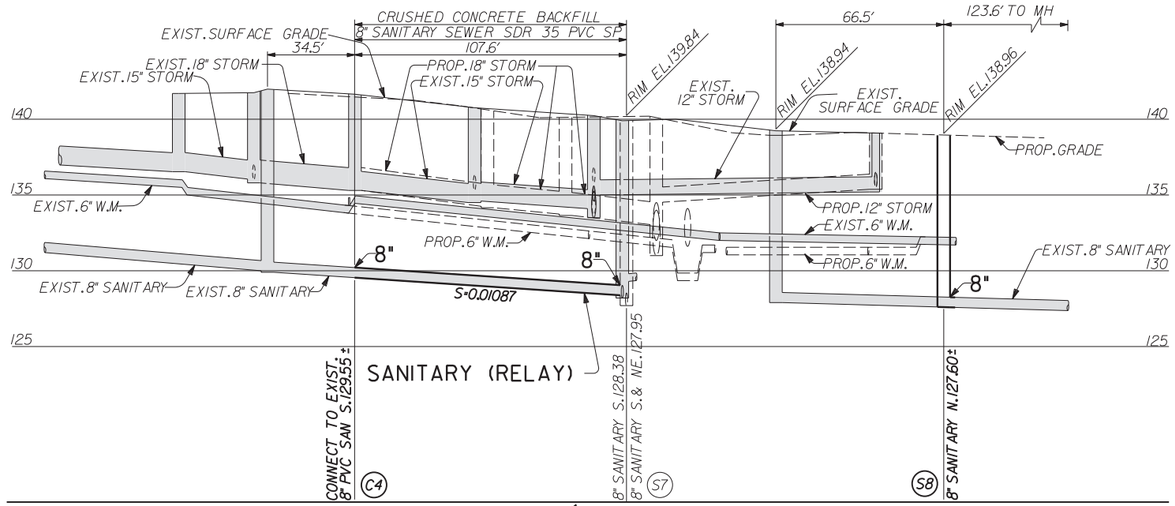
Robert J. Weber APPROVED INTERIM CITY ENGINEER 10-13-22 DATE

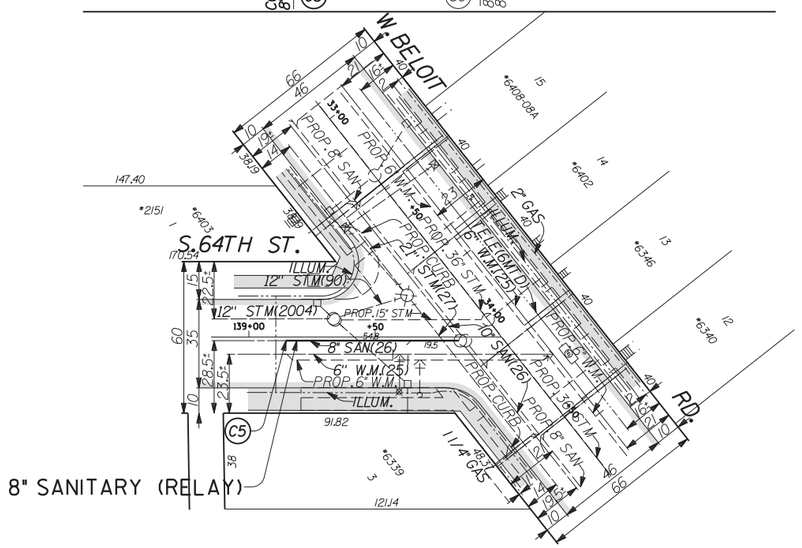
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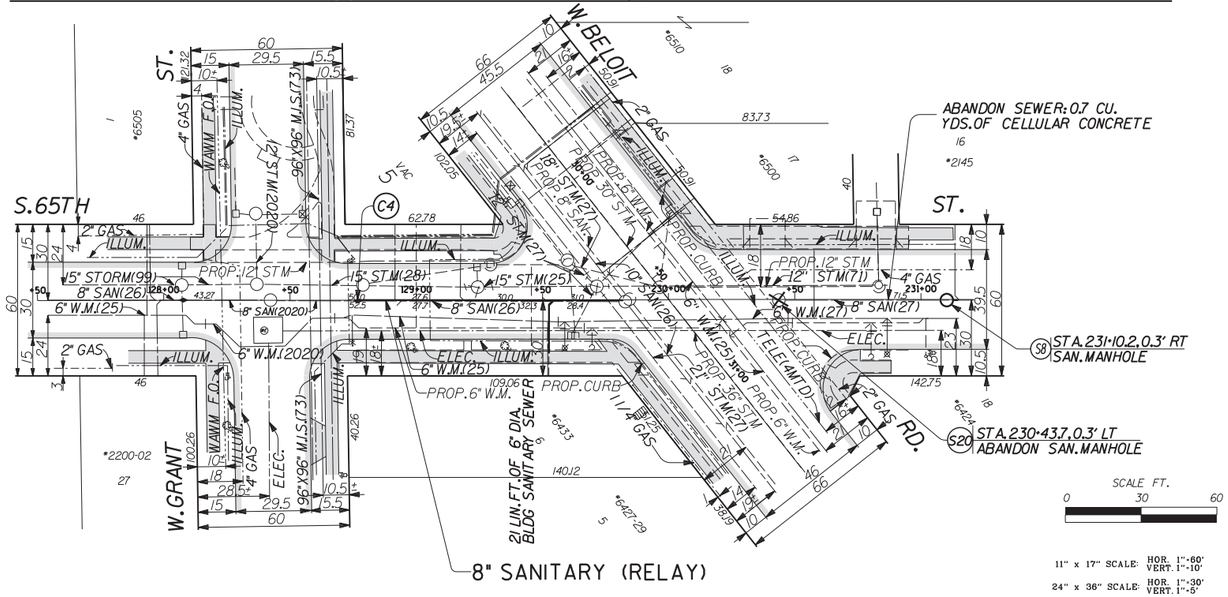
SHEET 77

PROJECT NO: 2525-03-72 | HWY: W. BELOIT ROAD | COUNTY: MILWAUKEE | SANITARY PLAN









SCALE FT.
0 30 60

11" x 17" SCALE: HOR. 1"=60' VERT. 1"=10'
24" x 36" SCALE: HOR. 1"=30' VERT. 1"=5'

NOTE: 1. THE EXISTING ROADWAY SURFACE IN SOUTH 64TH STREET FROM WEST BELOIT ROAD TO 90' SOUTH OF WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.

2. THE EXISTING ROADWAY SURFACE IN SOUTH 65TH STREET FROM WEST BELOIT ROAD TO 68' SOUTH OF WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.

3. ALL EXISTING AND PROPOSED CATCH BASINS SHALL HAVE INLET PROTECTION BARRIERS.

WISCONSIN
HEATH BROZOVICH 45339 OCONOMOWOC, WI
PROFESSIONAL ENGINEER

CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

PLAN & PROFILE
SANITARY SEWER RELAY & BLDG. SERV.
IN SOUTH 64TH STREET | SOUTH 65TH STREET
FROM WEST BELOIT ROAD TO 68' S/O W. BELOIT RD. | 57' N/O W. BELOIT RD. WEST GRANT STREET

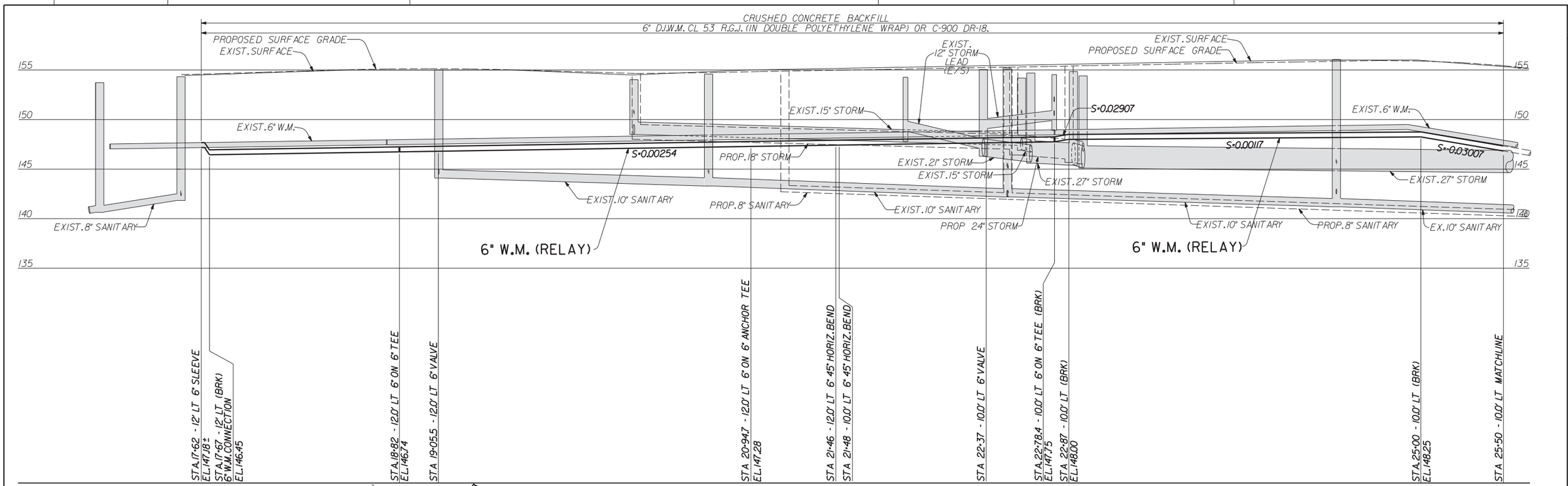
CONTRACT NO. STATE CONT.
ACCOUNT NO. P2346N
CONTRACTOR
INSPECTOR
AS-BUILT ENT'D. BY
AS-BUILT CHK'D. BY
GIS ENTERED BY
SYSTEM NO. SS-14
1/4 SEC. NO. 475

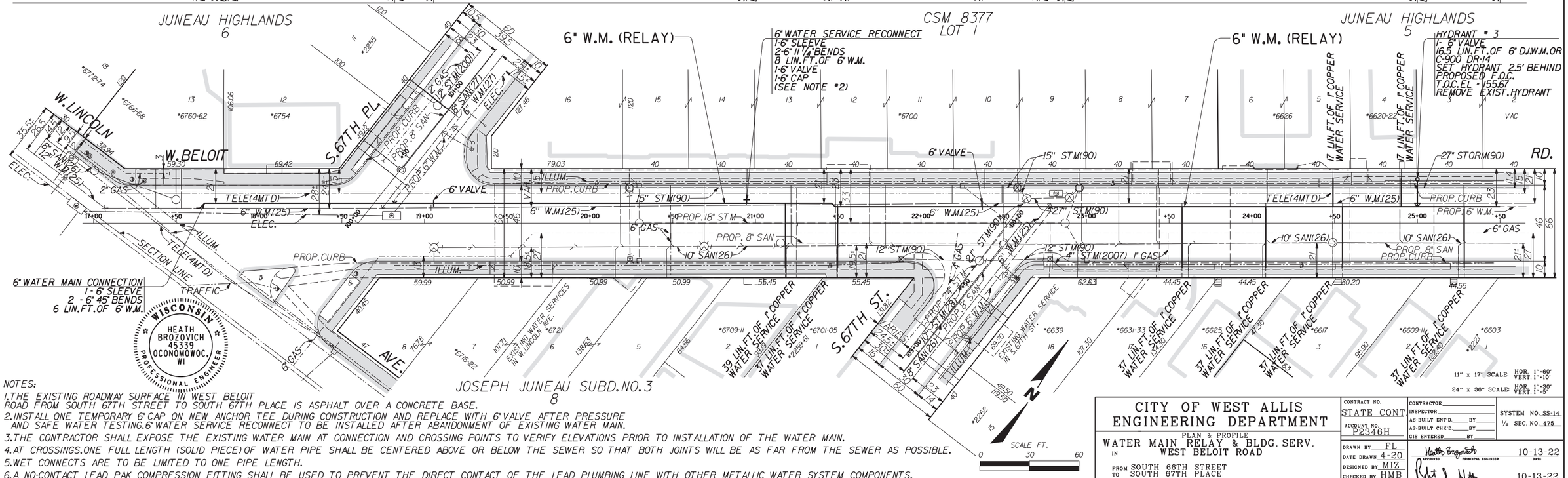
DRAWN BY FL
DATE DRAWN 4-20
DESIGNED BY MIZ
CHECKED BY HMB
SURVEY
FINAL PLAN DATE

Heath Brozovich 10-13-22
APPROVED PRINCIPAL ENGINEER DATE
Robert J. Weber 10-13-22
APPROVED INTERIM CITY ENGINEER DATE

PLAN FILE NO. S-1669
SHEET 78

PROJECT NO: 2525-03-72 | HWY: W. BELOIT ROAD | COUNTY: MILWAUKEE | SANITARY PLAN





WISCONSIN
HEATH BROZOVICH 45339 OCONOMOWOC, WI
PROFESSIONAL ENGINEER

NOTES:

1. THE EXISTING ROADWAY SURFACE IN WEST BELOIT ROAD FROM SOUTH 67TH STREET TO SOUTH 67TH PLACE IS ASPHALT OVER A CONCRETE BASE.
2. INSTALL ONE TEMPORARY 6" CAP ON NEW ANCHOR TEE DURING CONSTRUCTION AND REPLACE WITH 6" VALVE AFTER PRESSURE AND SAFE WATER TESTING. 6" WATER SERVICE RECONNECT TO BE INSTALLED AFTER ABANDONMENT OF EXISTING WATER MAIN.
3. THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAIN AT CONNECTION AND CROSSING POINTS TO VERIFY ELEVATIONS PRIOR TO INSTALLATION OF THE WATER MAIN.
4. AT CROSSINGS, ONE FULL LENGTH (SOLID PIECE) OF WATER PIPE SHALL BE CENTERED ABOVE OR BELOW THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
5. WET CONNECTS ARE TO BE LIMITED TO ONE PIPE LENGTH.
6. A NO-CONTACT LEAD PAK COMPRESSION FITTING SHALL BE USED TO PREVENT THE DIRECT CONTACT OF THE LEAD PLUMBING LINE WITH OTHER METALLIC WATER SYSTEM COMPONENTS, AN APPROVED PRODUCT IS MADE BY THE FORD METER COMPANY.
7. ALL RECONNECTS MUST BE LEAK CHECKED PRIOR TO TAPING AND BACK FILL.

11" x 17" SCALE: HOR. 1"=60' VERT. 1"=10'
24" x 36" SCALE: HOR. 1"=30' VERT. 1"=5'

CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

PLAN & PROFILE
WATER MAIN RELAY & BLDG. SERV.
IN WEST BELOIT ROAD
FROM SOUTH 66TH STREET
TO SOUTH 67TH PLACE

CONTRACT NO. STATE CONT
ACCOUNT NO. P2346H
DRAWN BY FL
DATE DRAWN 4-20
DESIGNED BY MIZ
CHECKED BY HMB
SURVEY
FINAL PLAN DATE

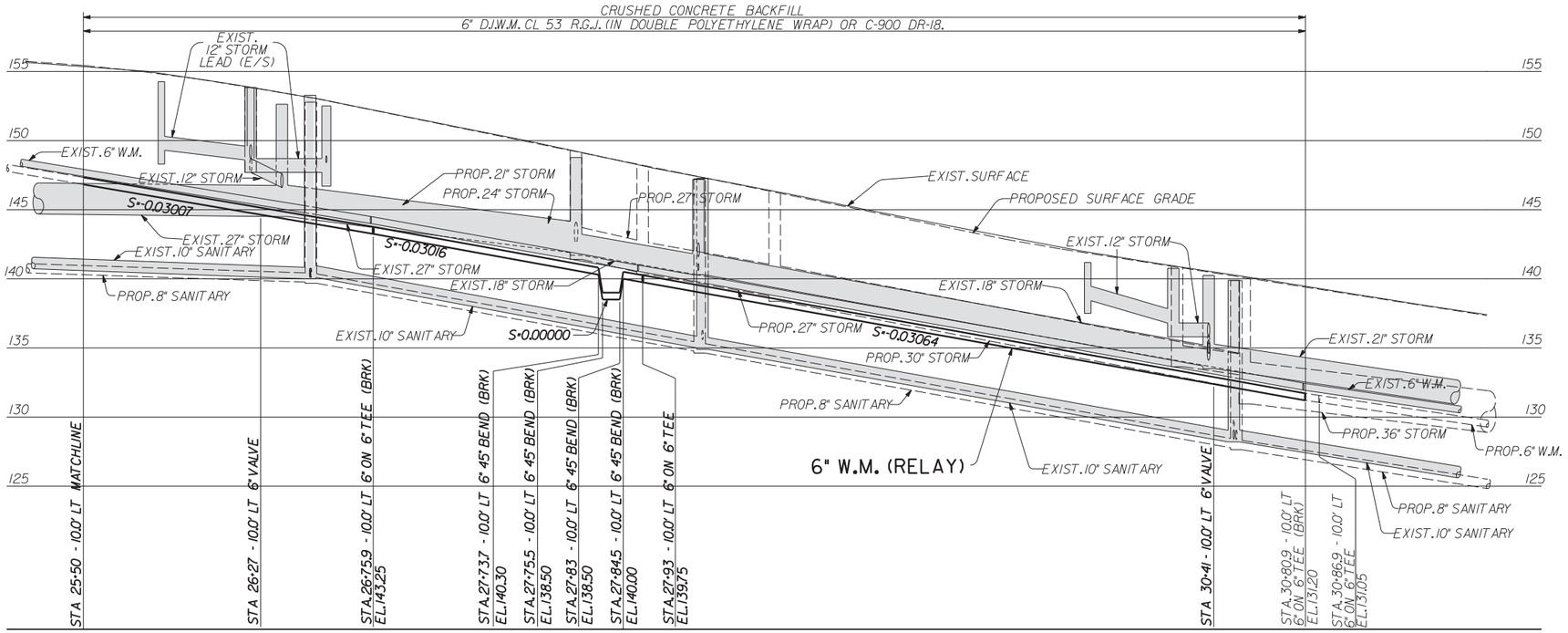
CONTRACTOR
INSPECTOR
AS-BUILT ENT'D BY
AS-BUILT CHK'D BY
GIS ENTERED BY

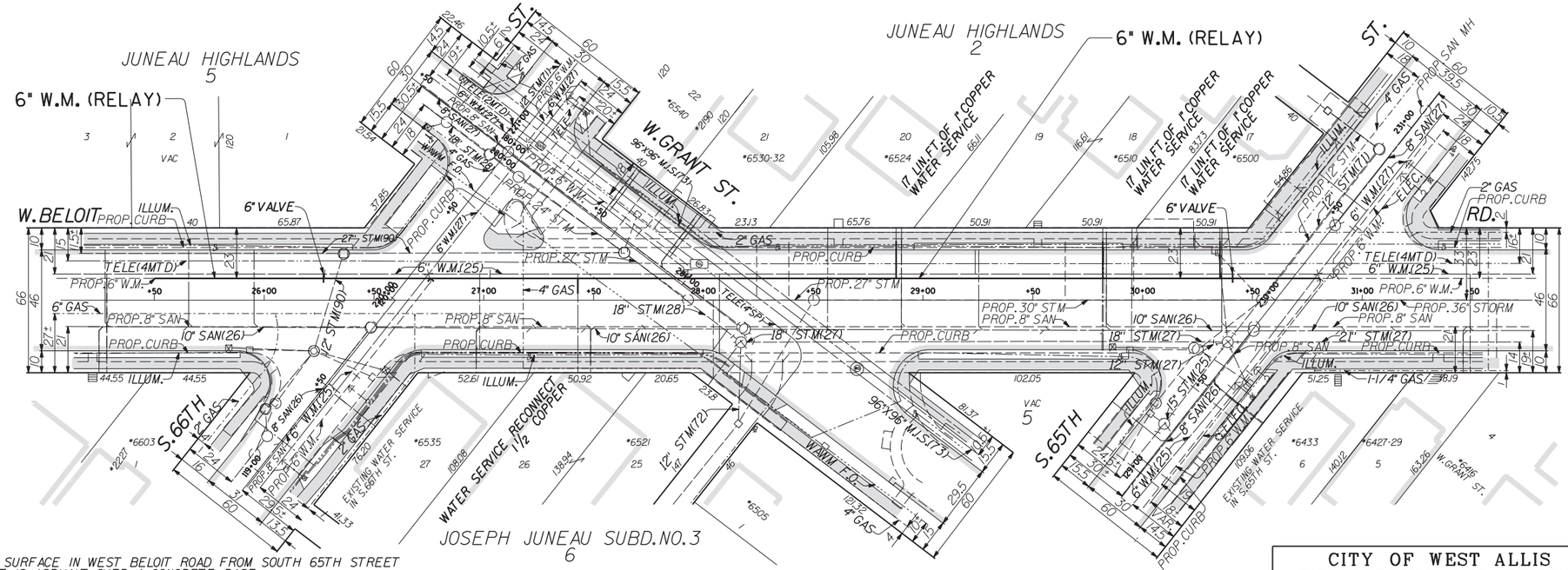
SYSTEM NO. SS-14
1/4 SEC. NO. 475

Heath Brozovich 10-13-22
APPROVED PRINCIPAL ENGINEER DATE
Robert J. Weber 10-13-22
APPROVED INTERIM CITY ENGINEER DATE

PLAN FILE NO. W-1432

PROJECT NO: 2525-03-72	HWY: WEST BELOIT ROAD	COUNTY: MILWAUKEE	WATER MAIN PLAN	SHEET 79









11" x 17" SCALE: HOR. 1"=60' VERT. 1"=10'

24" x 36" SCALE: HOR. 1"=30' VERT. 1"=5'

NOTES:

1. THE EXISTING ROADWAY SURFACE IN WEST BELOIT ROAD FROM SOUTH 65TH STREET TO SOUTH 66TH STREET IS ASPHALT OVER A CONCRETE BASE.
2. THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAIN AT CONNECTION AND CROSSING POINTS TO VERIFY ELEVATIONS PRIOR TO INSTALLATION OF THE WATER MAIN.
3. AT CROSSINGS, ONE FULL LENGTH (SOLID PIECE) OF WATER PIPE SHALL BE CENTERED ABOVE OR BELOW THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
4. WET CONNECTS ARE TO BE LIMITED TO ONE PIPE LENGTH.
5. A NO-CONTACT LEAD PAK COMPRESSION FITTING SHALL BE USED TO PREVENT THE DIRECT CONTACT OF THE LEAD PLUMBING LINE WITH OTHER METALLIC WATER SYSTEM COMPONENTS. AN APPROVED PRODUCT IS MADE BY THE FORD METER COMPANY.
6. ALL RECONNECTS MUST BE LEAK CHECKED PRIOR TO TAPING AND BACKFILL.

CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

PLAN & PROFILE
WATER MAIN RELAY & BLDG. SERV.
IN WEST BELOIT RD.
FROM SOUTH 65TH STREET
TO SOUTH 66TH STREET

CONTRACT NO. STATE CONT
ACCOUNT NO. P2346H
DRAWN BY FL
DATE DRAWN 4-20
DESIGNED BY MIZ
CHECKED BY HMB
SURVEY
FINAL PLAN DATE

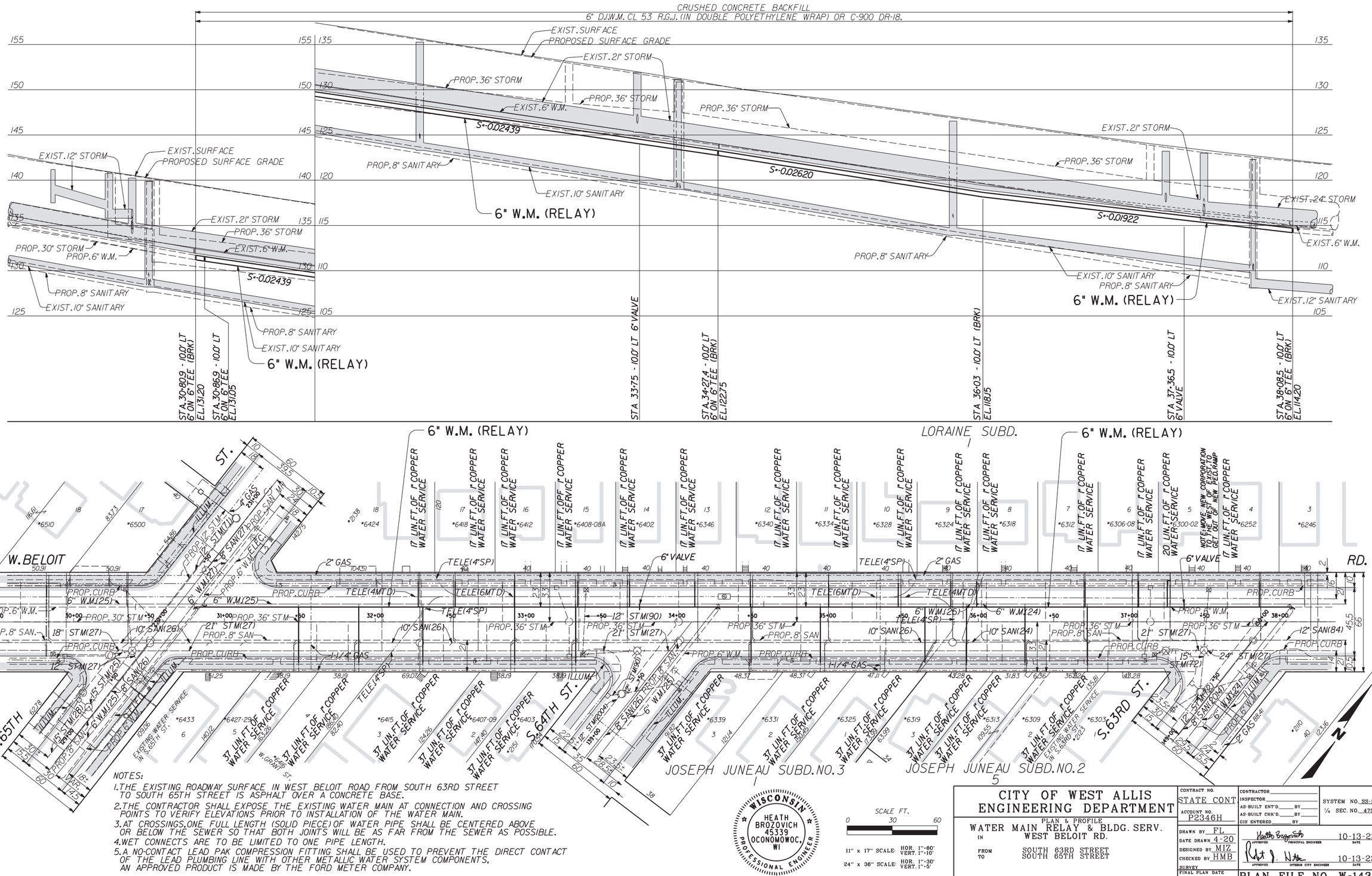
CONTRACTOR
INSPECTOR
AS-BUILT ENT'D BY
AS-BUILT CHK'D BY
GIS ENTERED BY

SYSTEM NO. SS-14
¼ SEC. NO. 475

Heath Brozovich 10-13-22
APPROVED PRINCIPAL ENGINEER DATE
Robert J. Mitchell 10-13-22
APPROVED INTERIM CITY ENGINEER DATE

PLAN FILE NO. W-1433

PROJECT NO: 2525-03-72	HWY: WEST BELOIT ROAD	COUNTY: MILWAUKEE	WATER MAIN PLAN	SHEET 80



NOTES:

1. THE EXISTING ROADWAY SURFACE IN WEST BELOIT ROAD FROM SOUTH 63RD STREET TO SOUTH 65TH STREET IS ASPHALT OVER A CONCRETE BASE.
2. THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAIN AT CONNECTION AND CROSSING POINTS TO VERIFY ELEVATIONS PRIOR TO INSTALLATION OF THE WATER MAIN.
3. AT CROSSINGS, ONE FULL LENGTH (SOLID PIECE) OF WATER PIPE SHALL BE CENTERED ABOVE OR BELOW THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
4. WET CONNECTS ARE TO BE LIMITED TO ONE PIPE LENGTH.
5. A NO-CONTACT LEAD PAK COMPRESSION FITTING SHALL BE USED TO PREVENT THE DIRECT CONTACT OF THE LEAD PLUMBING LINE WITH OTHER METALLIC WATER SYSTEM COMPONENTS. AN APPROVED PRODUCT IS MADE BY THE FORD METER COMPANY.

WISCONSIN
HEATH BROZOVICH 45339 OCONOMOWOC, WI
PROFESSIONAL ENGINEER

CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

PLAN & PROFILE
WATER MAIN RELAY & BLDG. SERV.
IN WEST BELOIT RD.
FROM SOUTH 63RD STREET
TO SOUTH 65TH STREET

CONTRACT NO.	STATE CONT
ACCOUNT NO.	P2346H
DRAWN BY	FL
DATE DRAWN	4-20
DESIGNED BY	MIZ
CHECKED BY	HMB
SURVEY FINAL PLAN DATE	

CONTRACTOR
INSPECTOR
AS-BUILT ENT'D. BY
AS-BUILT CHK'D. BY
GIS ENTERED BY

SYSTEM NO. SS-14
¼ SEC. NO. 475

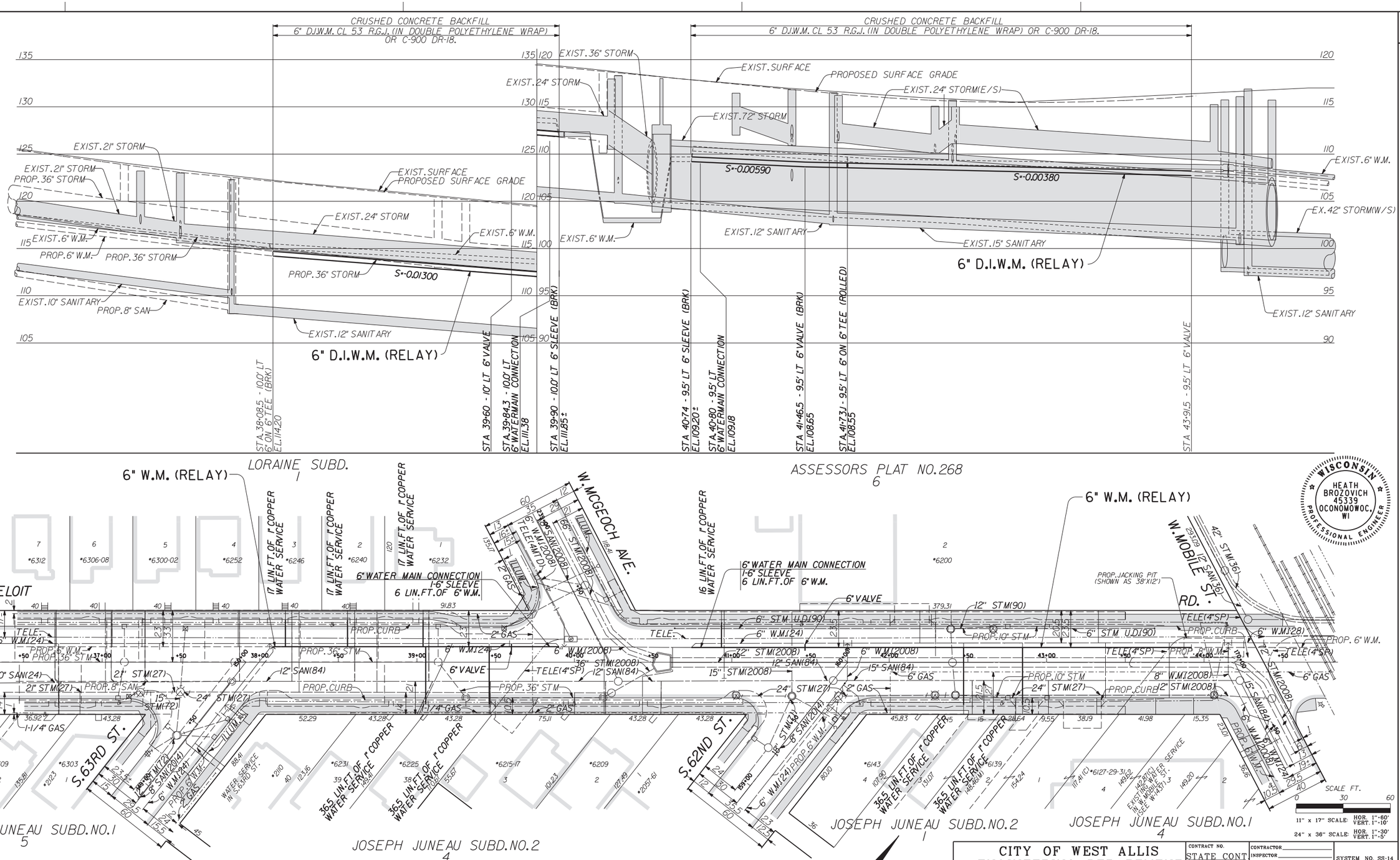
Heath Brozovich 10-13-22
APPROVED PRINCIPAL ENGINEER DATE

Kurt J. Wilke 10-13-22
APPROVED INTERIM CITY ENGINEER DATE

PLAN FILE NO. W-1434

SHEET 81

PROJECT NO: 2525-03-72	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	WATER MAIN PLAN



NOTES:

1. THE EXISTING ROADWAY SURFACE IN WEST BELOIT ROAD FROM WEST MOBILE STREET TO SOUTH 63RD STREET IS ASPHALT OVER A CONCRETE BASE.
2. THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAIN AT CONNECTION AND CROSSING POINTS TO VERIFY ELEVATIONS PRIOR TO INSTALLATION OF THE WATER MAIN.
3. AT CROSSINGS, ONE FULL LENGTH (SOLID PIECE) OF WATER PIPE SHALL BE CENTERED ABOVE OR BELOW THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
4. WET CONNECTS ARE TO BE LIMITED TO ONE PIPE LENGTH.
5. A NO-CONTACT LEAD PAK COMPRESSION FITTING SHALL BE USED TO PREVENT THE DIRECT CONTACT OF THE LEAD PLUMBING LINE WITH OTHER METALLIC WATER SYSTEM COMPONENTS. AN APPROVED PRODUCT IS MADE BY THE FORD METER COMPANY.

HEATH BROZOVICH 45339 OCONOMOWOC, WI PROFESSIONAL ENGINEER WISCONSIN

CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

PLAN & PROFILE
WATER MAIN RELAY & BLDG. SERV.
IN WEST BELOIT RD.
FROM WEST MOBILE STREET
TO SOUTH 63RD STREET

CONTRACT NO.	STATE CONT
ACCOUNT NO.	P2346H
DRAWN BY	FL
DATE DRAWN	4-20
DESIGNED BY	MIZ
CHECKED BY	HMB
SURVEY FINAL PLAN DATE	

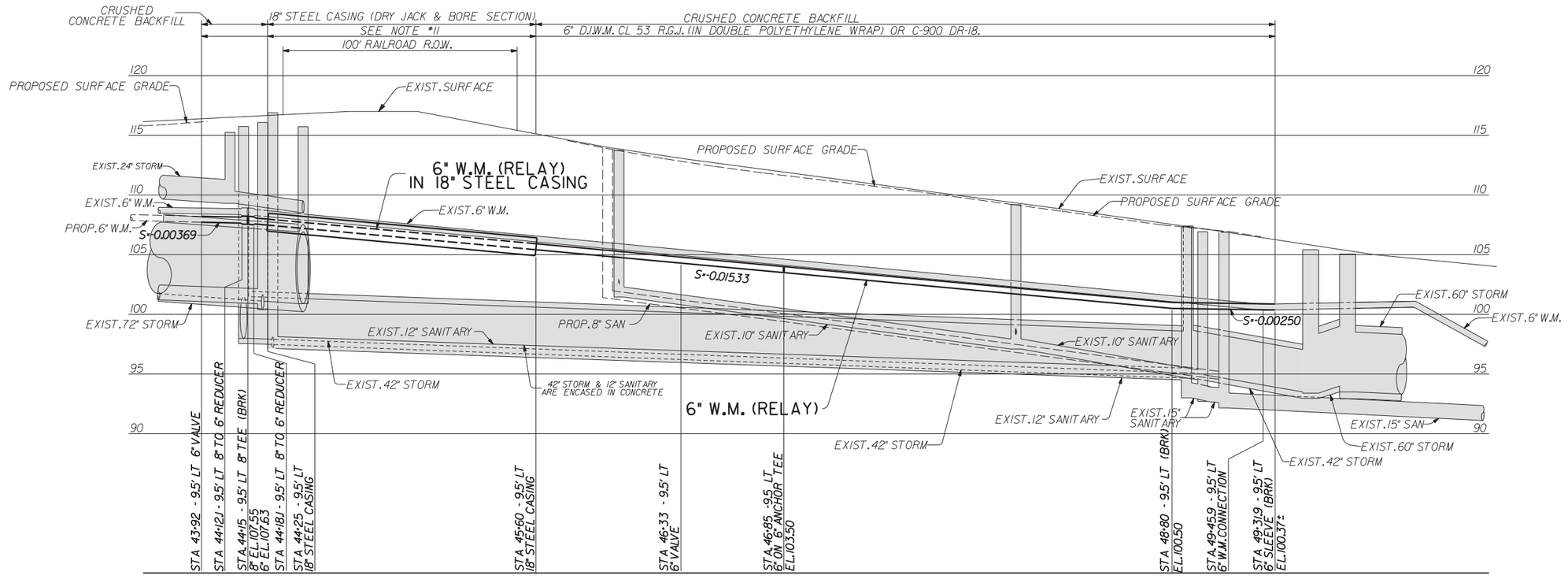
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INSPECTOR
AS-BUILT ENT'D. BY
AS-BUILT CHK'D. BY
GIS ENTERED BY

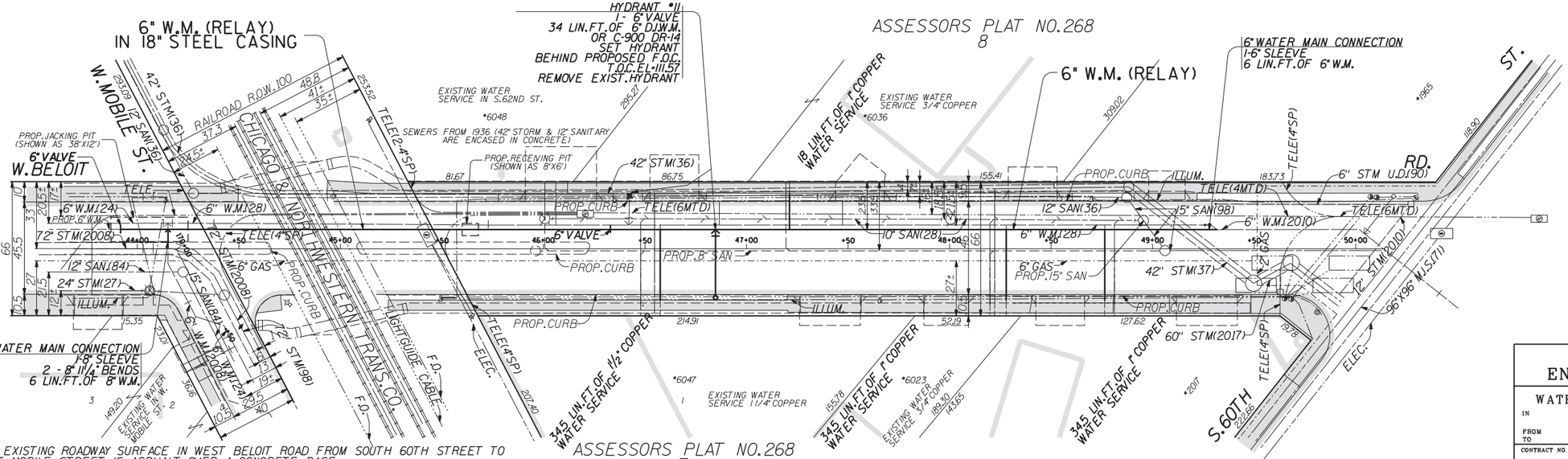
SYSTEM NO. SS-14
¼ SEC. NO. 475

Heath Brozovich 10-13-22
APPROVED PRINCIPAL ENGINEER DATE
Robert J. Weber 10-13-22
APPROVED INTERIM CITY ENGINEER DATE

PLAN FILE NO. W-1435

PROJECT NO: 2525-03-72	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	WATER MAIN PLAN	SHEET 82







11" x 17" SCALE: HOR. 1"=60' VERT. 1"=10'

24" x 36" SCALE: HOR. 1"=30' VERT. 1"=5'

REVISED 11-4-22

WISCONSIN
HEATH BROZOVICH 45339 OCONOMOWOC, WI
PROFESSIONAL ENGINEER

NOTES:
1. THE EXISTING ROADWAY SURFACE IN WEST BELOIT ROAD FROM SOUTH 60TH STREET TO WEST MOBILE STREET IS ASPHALT OVER A CONCRETE BASE.
2. THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAIN AT CONNECTION AND CROSSING POINTS TO VERIFY ELEVATIONS PRIOR TO INSTALLATION OF THE WATER MAIN.
3. AT CROSSINGS, ONE FULL LENGTH (SOLID PIECE) OF WATER PIPE SHALL BE CENTERED ABOVE OR BELOW THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
4. WET CONNECTS ARE TO BE LIMITED TO ONE PIPE LENGTH.
5. A NO-CONTACT LEAD PAK COMPRESSION FITTING SHALL BE USED TO PREVENT THE DIRECT CONTACT OF THE LEAD PLUMBING LINE WITH OTHER METALLIC WATER SYSTEM COMPONENTS. AN APPROVED PRODUCT IS MADE BY THE FORD METER COMPANY.
6. MINIMUM THICKNESS OF THE 18" STEEL CASING SHALL BE 0.312"
7. CASING SHALL BE A SMOOTH STEEL CASING PIPE WITH MINIMUM YIELD STRENGTH OF 35,000 PSI
8. THE ANNULAR SPACE BETWEEN THE WATER MAIN AND THE CASING SHALL NOT BE FILLED.
9. STAINLESS STEEL SPACERS SHALL BE USED WITH A MAXIMUM SPACING OF 25FT.
10. BULKHEADS SHALL BE INSTALLED AT THE ENDS.
11. THE JOINTS IN THE CASING SHALL BE RESTRAINED (SEE SPECIAL PROVISIONS) AND THE PIPE SHALL EXTEND A MINIMUM OF 2' BEYOND THE CASING FOR THE NEXT JOINT.

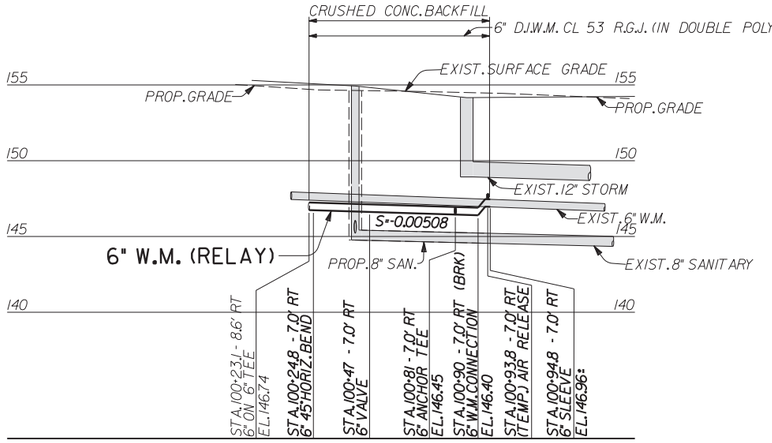
CITY OF WEST ALLIS ENGINEERING DEPARTMENT

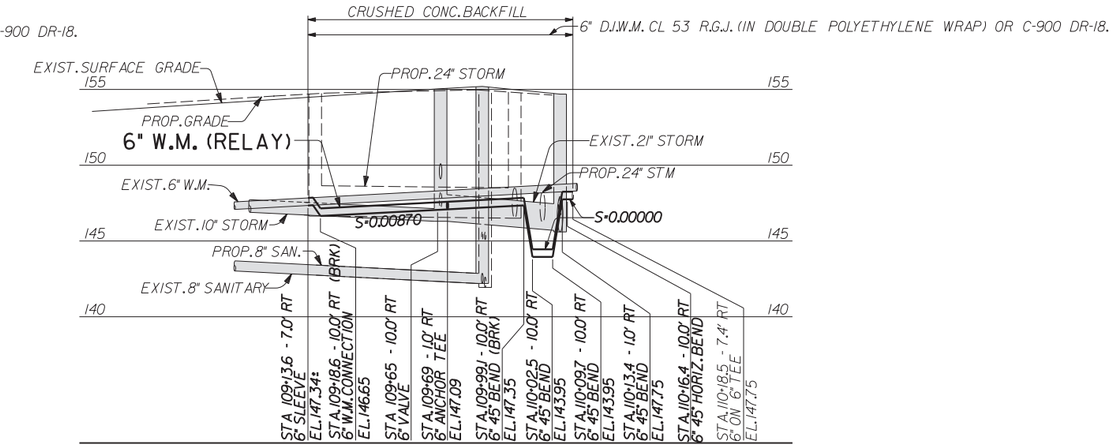
PLAN & PROFILE
WATER MAIN RELAY & BLDG. SERV.
IN WEST BELOIT ROAD
FROM SOUTH 60TH STREET
TO WEST MOBILE STREET

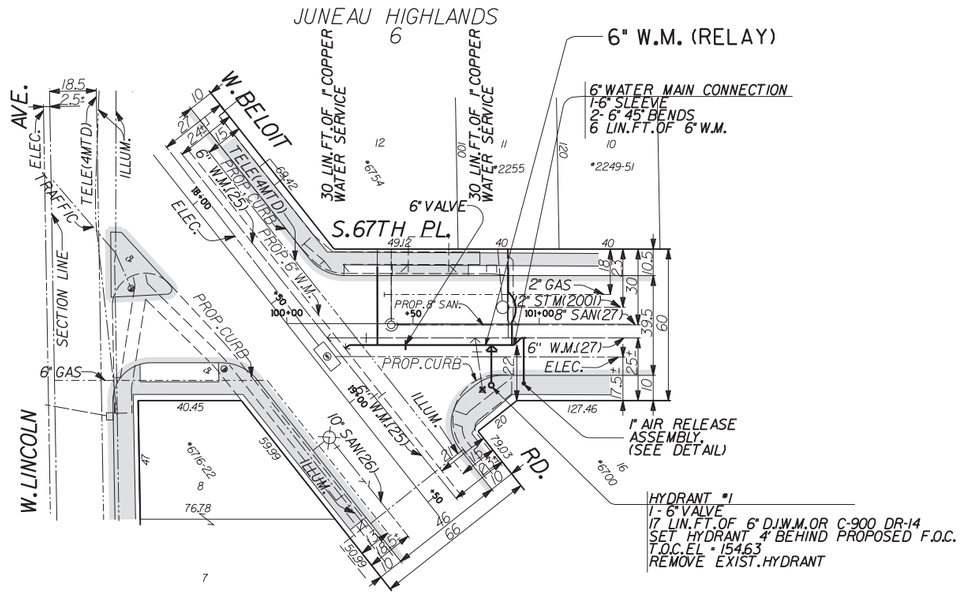
CONTRACT NO. STATE CONT.	CONTRACTOR	SYSTEM NO. SS-14
ACCOUNT NO. P2346H	INSPECTOR	¼ SEC. NO. 475
	AS-BUILT ENT'D. BY	
	AS-BUILT CHK'D. BY	
	GIS ENTERED BY	
DRAWN BY FL	Heath Brozovich APPROVED PRINCIPAL ENGINEER	10-13-22 DATE
DATE DRAWN 4-20		
DESIGNED BY MIZ		
CHECKED BY HMB		
SURVEY FINAL PLAN DATE	APPROVED INTERIM CITY ENGINEER	10-13-22 DATE

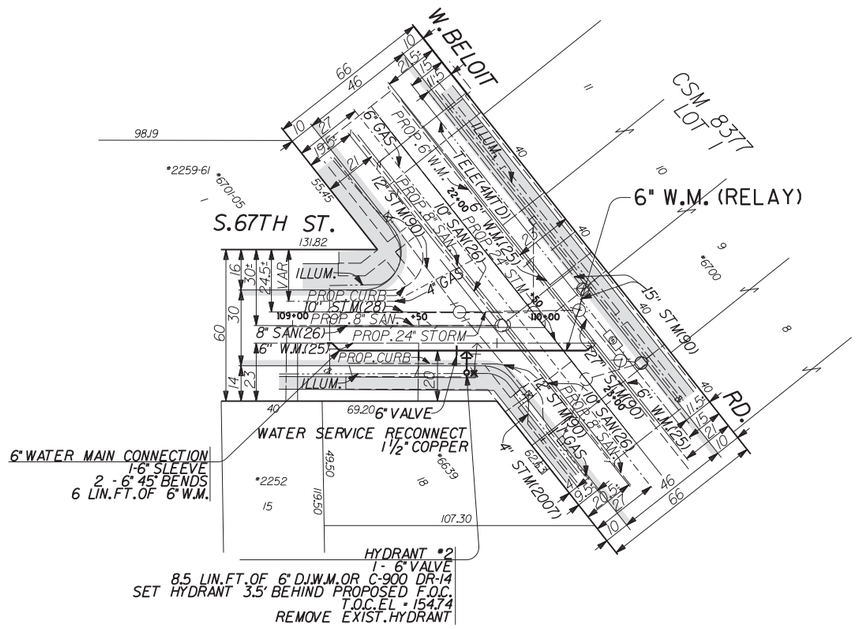
PLAN FILE NO. W-1436

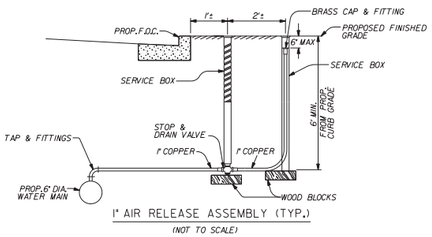
PROJECT NO: 2525-03-72	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	WATER MAIN PLAN	SHEET 83











NOTES:
1. THE EXISTING ROADWAY SURFACE IN SOUTH 67TH PLACE FROM 51' NORTH OF WEST BELOIT ROAD TO WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.
2. THE EXISTING ROADWAY SURFACE IN SOUTH 67TH STREET FROM WEST BELOIT ROAD TO 67' SOUTH OF WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.
3. THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAIN AT CONNECTION AND CROSSING POINTS TO VERIFY ELEVATIONS PRIOR TO INSTALLATION OF THE WATER MAIN.
4. AT CROSSINGS, ONE FULL LENGTH (SOLID PIECE) OF WATER PIPE SHALL BE CENTERED ABOVE OR BELOW THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
5. WET CONNECTS ARE TO BE LIMITED TO ONE PIPE LENGTH.
6. A NO-CONTACT LEAD PAK COMPRESSION FITTING SHALL BE USED TO PREVENT THE DIRECT CONTACT OF THE LEAD PLUMBING LINE WITH OTHER METALLIC WATER SYSTEM COMPONENTS. AN APPROVED PRODUCT IS MADE BY THE FORD METER BOX COMPANY.
7. ALL RECONNECTS MUST BE LEAK CHECKED PRIOR TO TAPING AND BACKFILL.

SCALE FT.
0 30 60

11" x 17" SCALE: HOR. 1"=60' VERT. 1"=10'
24" x 36" SCALE: HOR. 1"=30' VERT. 1"=5'

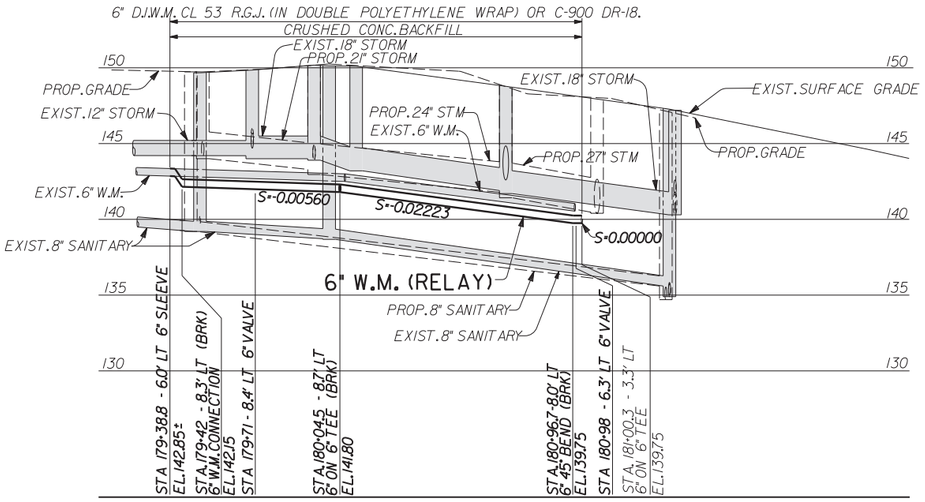
WISCONSIN
HEATH BROZOVICH
45339
OCONOMOWOC, WI
PROFESSIONAL ENGINEER

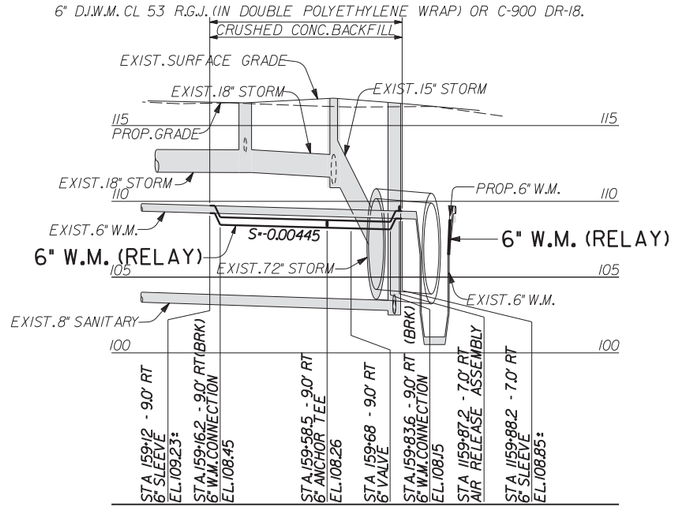
CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

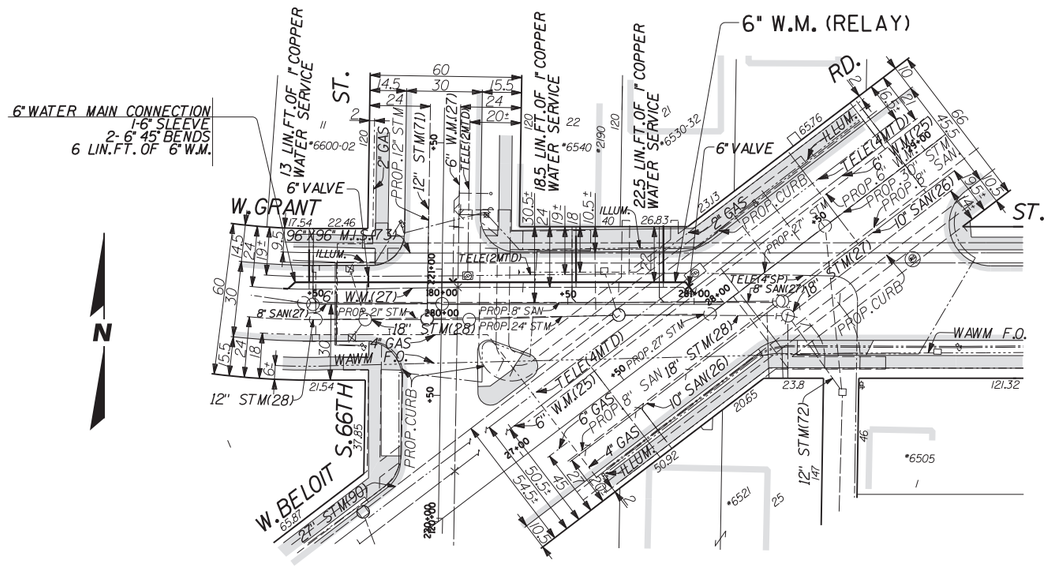
PLAN & PROFILE
WATER MAIN RELAY & BLDG. SERV.
IN SOUTH 67TH PLACE | SOUTH 67TH STREET
FROM WEST BELOIT ROAD | WEST BELOIT ROAD
TO 90' N/O W. BELOIT RD. | 90' S/O W. BELOIT RD.

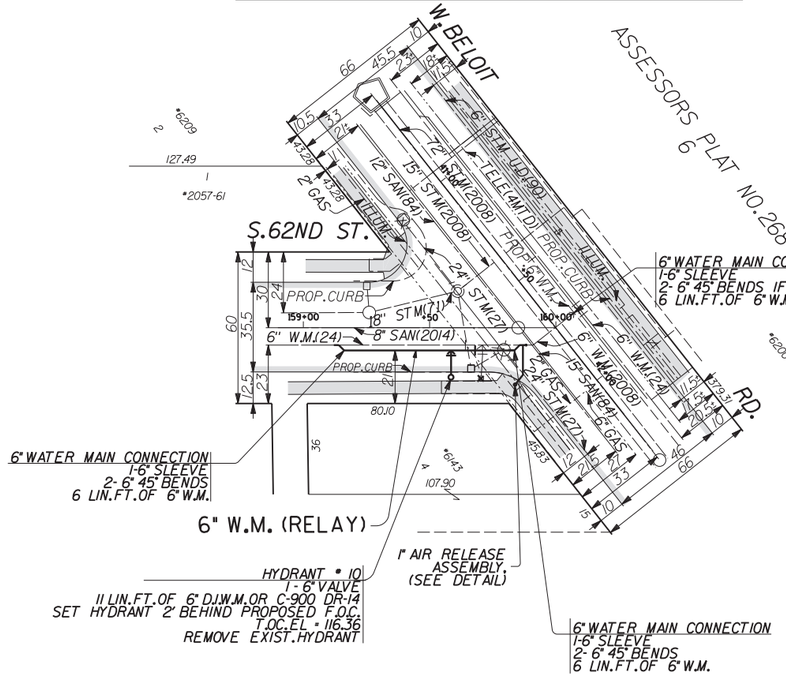
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ACCOUNT NO. P2346H
CONTRACTOR
INSPECTOR
AS-BUILT ENT'D BY
AS-BUILT CHK'D BY
GIS ENTERED BY
SYSTEM NO. SS-14
1/4 SEC. NO. 475
DRAWN BY FL
DATE DRAWN 4-20
DESIGNED BY MJZ
CHECKED BY HMB
SURVEY
FINAL PLAN DATE
Heath Brozovich 10-13-22
APPROVED PRINCIPAL ENGINEER DATE
Patrick J. White 10-13-22
APPROVED INTERIM CITY ENGINEER DATE
PLAN FILE NO. W-1437
SHEET 84

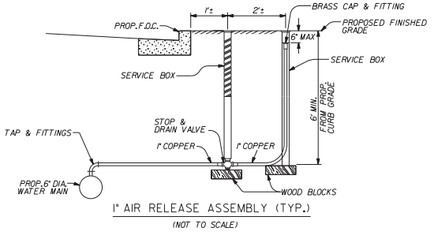
PROJECT NO: 2525-03-72 | HWY: W. BELOIT ROAD | COUNTY: MILWAUKEE | WATER MAIN PLAN



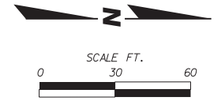








NOTES:
1. THE EXISTING ROADWAY SURFACE IN WEST GRANT STREET FROM 25' WEST OF SOUTH 66TH STREET TO WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.
2. THE EXISTING ROADWAY SURFACE IN SOUTH 62ND STREET FROM WEST BELOIT ROAD TO 78' SOUTH OF WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.
3. THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAIN AT CONNECTION AND CROSSING POINTS TO VERIFY ELEVATIONS PRIOR TO INSTALLATION OF THE WATER MAIN.
4. AT CROSSINGS, ONE FULL LENGTH (SOLID PIECE) OF WATER PIPE SHALL BE CENTERED ABOVE OR BELOW THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
5. WET CONNECTS ARE TO BE LIMITED TO ONE PIPE LENGTH.
6. A NO-CONTACT LEAD PAK COMPRESSION FITTING SHALL BE USED TO PREVENT THE DIRECT CONTACT OF THE LEAD PLUMBING LINE WITH OTHER METALLIC WATER SYSTEM COMPONENTS. AN APPROVED PRODUCT IS MADE BY THE FORD METER BOX COMPANY.



REVISED 11-3-22

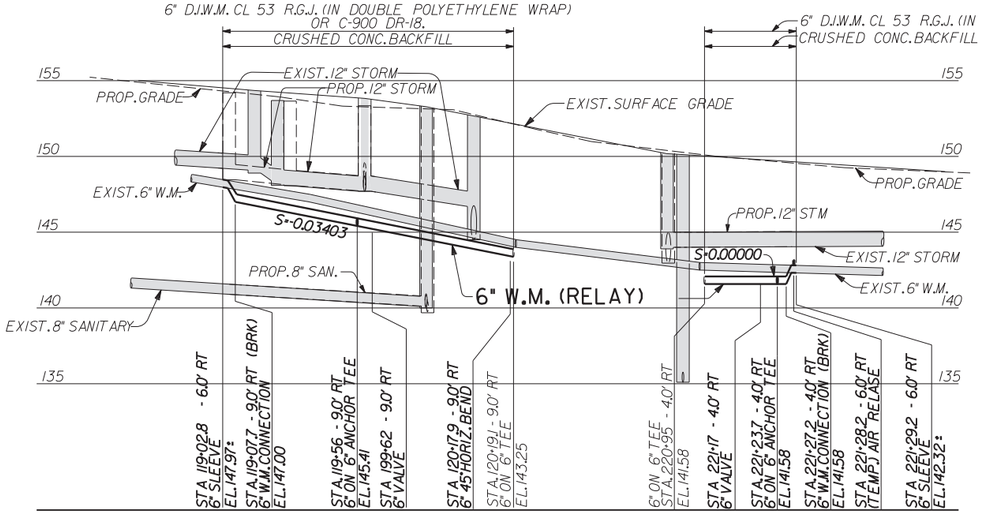
WISCONSIN
HEATH BROZOVICH 45339 OCONOMOWOC, WI
PROFESSIONAL ENGINEER

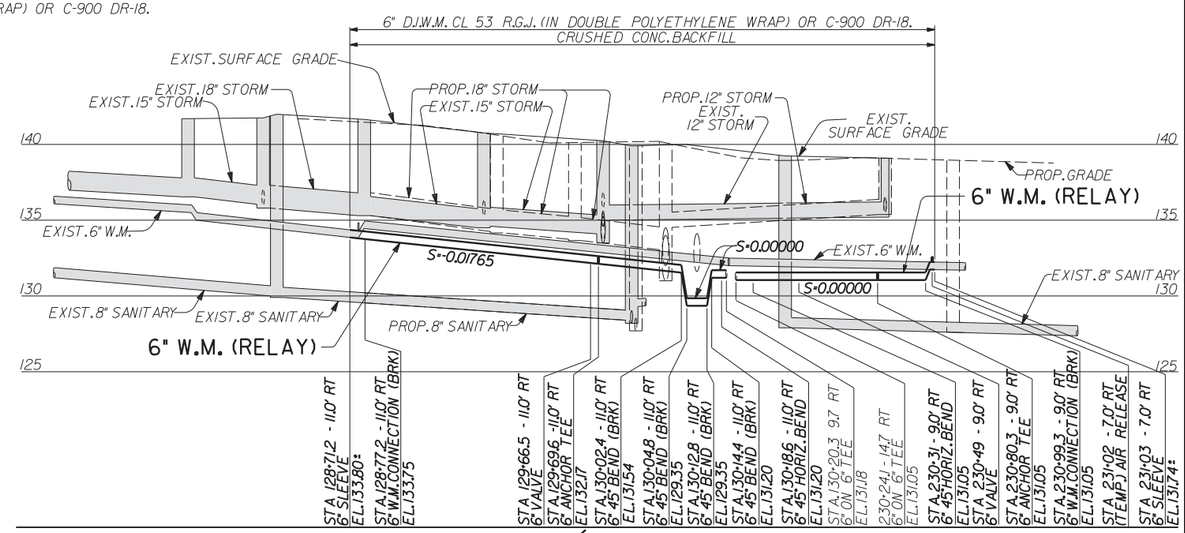
CITY OF WEST ALLIS ENGINEERING DEPARTMENT

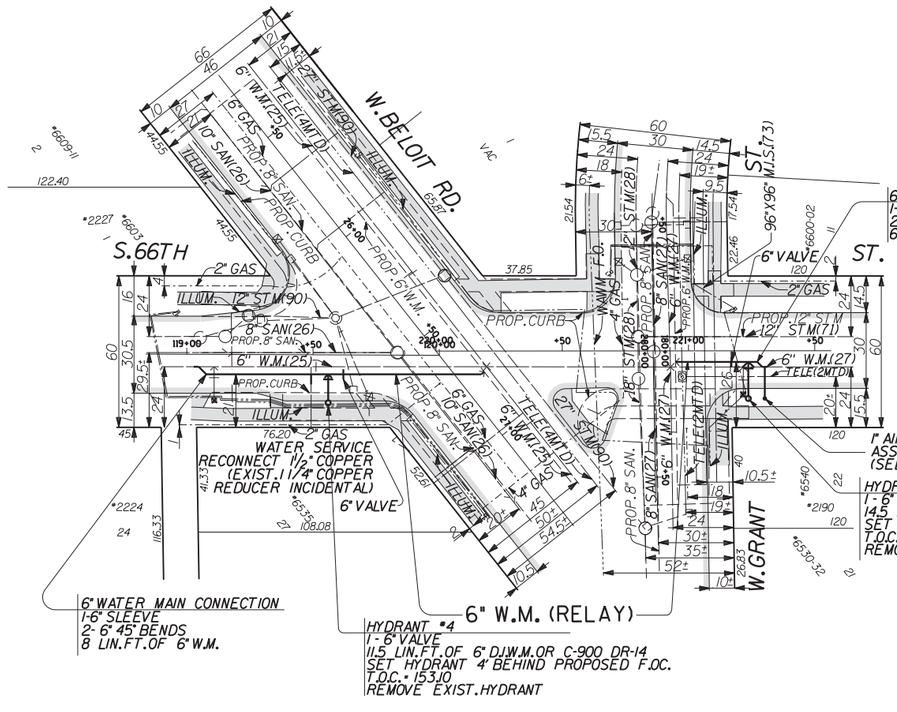
PLAN & PROFILE
WATER MAIN RELAY & BLDG. SERV.
IN WEST GRANT STREET | SOUTH 62ND STREET
FROM WEST BELOIT ROAD | WEST BELOIT ROAD
TO SOUTH 66TH STREET | 78' S/O WEST BELOIT ROAD

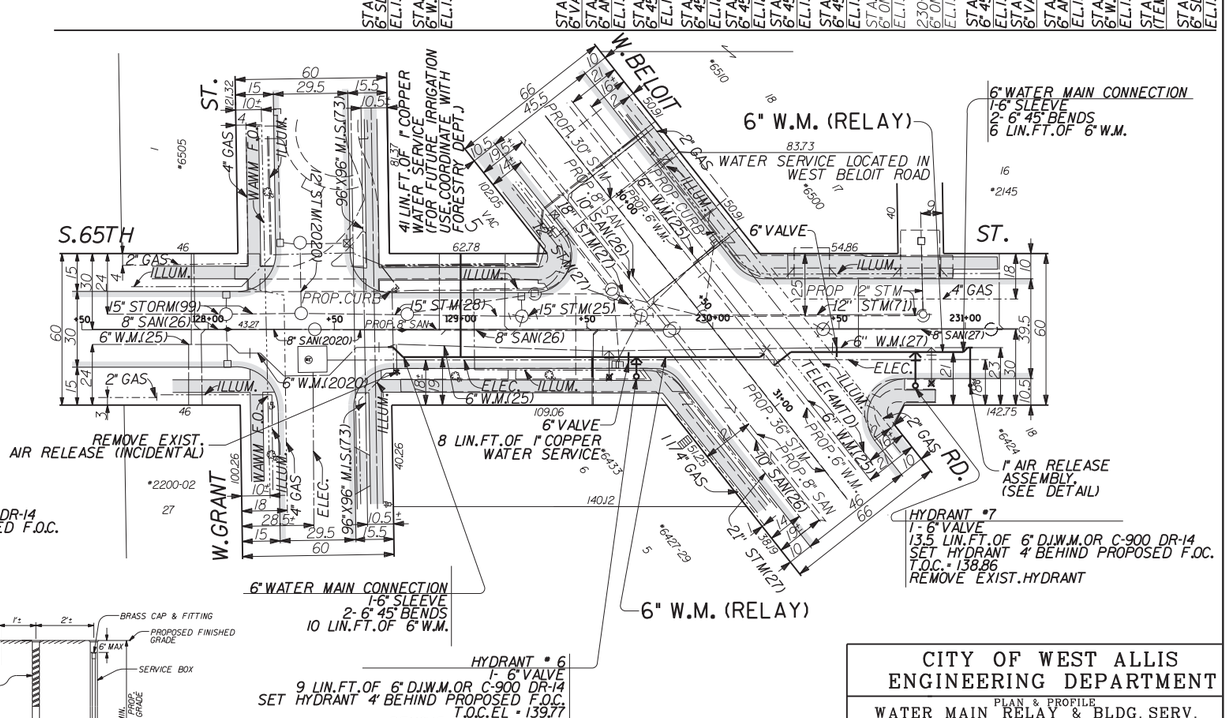
CONTRACT NO. STATE CONT.	CONTRACTOR	SYSTEM NO. SS-14
ACCOUNT NO. P2346H	INSPECTOR	¼ SEC. NO. 475
	AS-BUILT ENT'D BY	
	AS-BUILT CHK'D BY	
	GIS ENTERED BY	
DRAWN BY FL	Heath Brozovich APPROVED PRINCIPAL ENGINEER	10-13-22 DATE
DATE DRAWN 4-20		
DESIGNED BY MIZ		
CHECKED BY HMB	Robert J. Weber APPROVED INTERIM CITY ENGINEER	10-13-22 DATE
SURVEY FINAL PLAN DATE	PLAN FILE NO. W-1438	

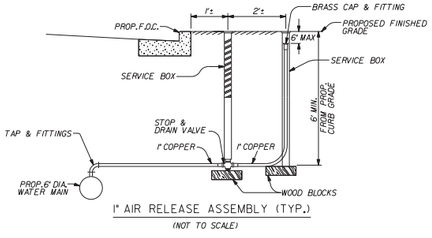
PROJECT NO: 2525-03-72 | HWY: W. BELOIT ROAD | COUNTY: MILWAUKEE | WATER MAIN PLAN | SHEET 85











NOTES:
1. THE EXISTING ROADWAY SURFACE IN SOUTH 66TH STREET FROM WEST BELOIT ROAD TO 78.5' SOUTH OF WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.
2. THE EXISTING ROADWAY SURFACE IN SOUTH 65TH STREET FROM WEST BELOIT ROAD TO 68' SOUTH OF WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.
3. THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAIN AT CONNECTION AND CROSSING POINTS TO VERIFY ELEVATIONS PRIOR TO INSTALLATION OF THE WATER MAIN.
4. AT CROSSINGS, ONE FULL LENGTH (SOLID PIECE) OF WATER PIPE SHALL BE CENTERED ABOVE OR BELOW THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
5. WET CONNECTS ARE TO BE LIMITED TO ONE PIPE LENGTH.
6. A NO-CONTACT LEAD PAK COMPRESSION FITTING SHALL BE USED TO PREVENT THE DIRECT CONTACT OF THE LEAD PLUMBING LINE WITH OTHER METALLIC WATER SYSTEM COMPONENTS. AN APPROVED PRODUCT IS MADE BY THE FORD METER BOX COMPANY.

WISCONSIN
HEATH BROZOVICH 45339 OCONOMOWOC, WI
PROFESSIONAL ENGINEER

SCALE FT. 0 30 60
11" x 17" SCALE: HOR. 1"=60' VERT. 1"=10'
24" x 36" SCALE: HOR. 1"=30' VERT. 1"=5'

CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

PLAN & PROFILE
WATER MAIN RELAY & BLDG. SERV.
IN SOUTH 66TH STREET | SOUTH 65TH STREET
FROM WEST GRANT STREET | WEST BELOIT ROAD
TO 116.5' S/O W. BELOIT RD. | WEST GRANT STREET

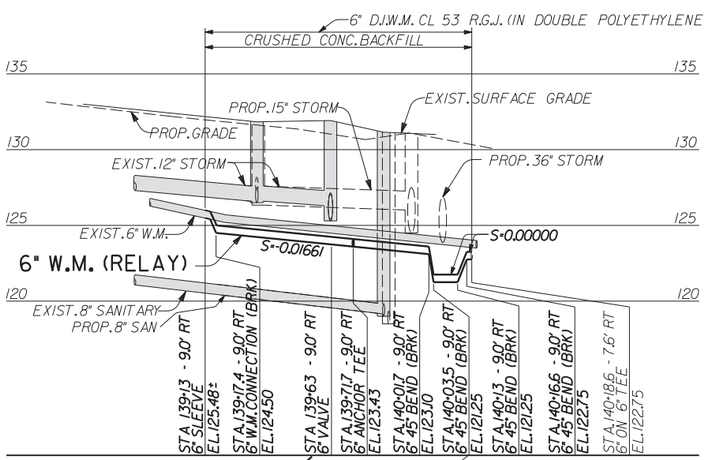
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DATE DRAWN 4-20
DESIGNED BY MTZ
CHECKED BY HMB
SURVEY
FINAL PLAN DATE

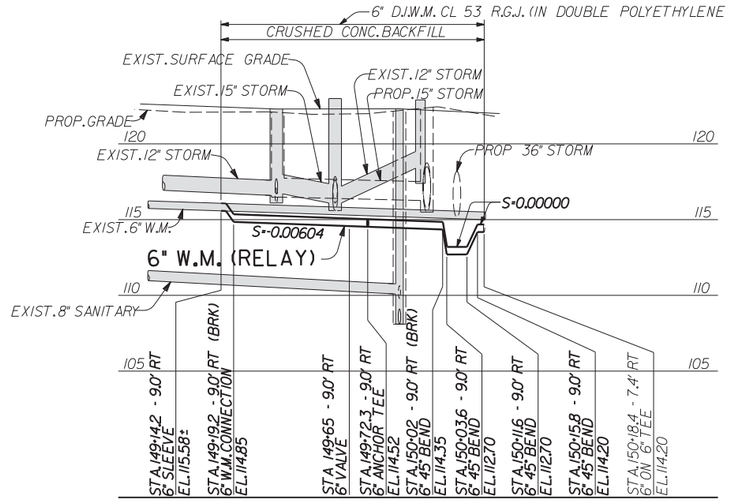
CONTRACTOR
INSPECTOR
AS-BUILT ENT'D BY
AS-BUILT CHK'D BY
GIS ENTERED BY
SYSTEM NO. SS-14
¼ SEC. NO. 475

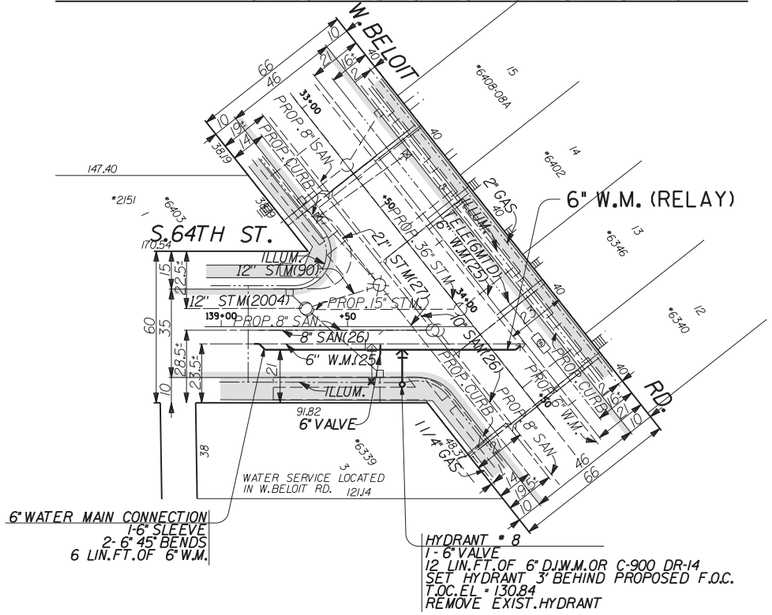
Heath Brozovich APPROVED PRINCIPAL ENGINEER 10-13-22 DATE
Robert J. Weber APPROVED INTERIM CITY ENGINEER 10-13-22 DATE

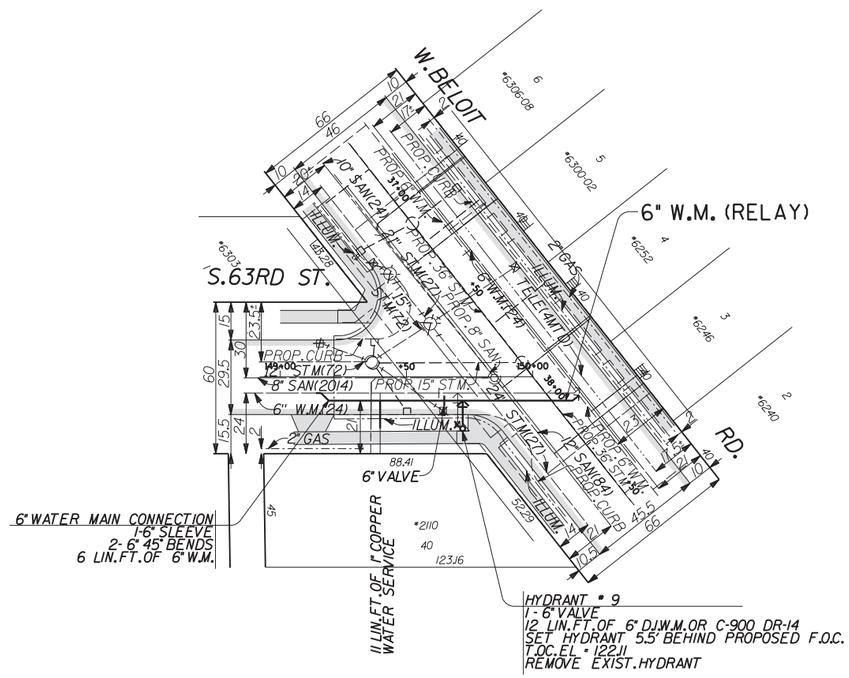
PLAN FILE NO. W-1439

PROJECT NO: 2525-03-72	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	WATER MAIN PLAN	SHEET 86









NOTES:
1. THE EXISTING ROADWAY SURFACE IN WEST GRANT STREET FROM 105' WEST OF SOUTH 64TH STREET TO WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.
2. THE EXISTING ROADWAY SURFACE IN SOUTH 63RD STREET FROM WEST BELOIT ROAD TO 105' SOUTH OF WEST BELOIT ROAD IS ASPHALT OVER A CONCRETE BASE.
3. THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAIN AT CONNECTION AND CROSSING POINTS TO VERIFY ELEVATIONS PRIOR TO INSTALLATION OF THE WATER MAIN.
4. AT CROSSINGS, ONE FULL LENGTH (SOLID PIECE) OF WATER PIPE SHALL BE CENTERED ABOVE OR BELOW THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
5. WET CONNECTS ARE TO BE LIMITED TO ONE PIPE LENGTH.
6. A NO-CONTACT LEAD PAK COMPRESSION FITTING SHALL BE USED TO PREVENT THE DIRECT CONTACT OF THE LEAD PLUMBING LINE WITH OTHER METALLIC WATER SYSTEM COMPONENTS. AN APPROVED PRODUCT IS MADE BY THE FORD METER BOX COMPANY.

SCALE FT.
0 30 60

11" x 17" SCALE: HOR. 1"=60' VERT. 1"=10'
24" x 36" SCALE: HOR. 1"=30' VERT. 1"=5'

REVISED 11-3-22

WISCONSIN
HEATH BROZOVICH 45339 OCONOMOWOC, WI
PROFESSIONAL ENGINEER

CITY OF WEST ALLIS
ENGINEERING DEPARTMENT

PLAN & PROFILE
WATER MAIN RELAY & BLDG. SERV.
IN SOUTH 64TH STREET | SOUTH 63RD STREET
FROM WEST BELOIT ROAD | WEST BELOIT ROAD
TO 104' S/O W. BELOIT RD. | 105.5' S/O' W. BELOIT RD.

CONTRACT NO. STATE CONT.
ACCOUNT NO. P2346H
CONTRACTOR
INSPECTOR
AS-BUILT ENT'D. BY
AS-BUILT CHK'D. BY
GIS ENTERED BY
SYSTEM NO. SS-14
1/4 SEC. NO. 475

DRAWN BY FL
DATE DRAWN 4-20
DESIGNED BY MIZ
CHECKED BY HMB
SURVEY
FINAL PLAN DATE

Heath Brozovich 10-13-22
APPROVED PRINCIPAL ENGINEER DATE
Robert J. Uhr 10-13-22
APPROVED INTERIM CITY ENGINEER DATE

PLAN FILE NO. W-1440

PROJECT NO: 2525-03-72 | HWY: W. BELOIT ROAD | COUNTY: MILWAUKEE | WATER MAIN PLAN | SHEET 87

LANDSCAPING NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING AWARE OF ALL RELATED EXISTING AND PROPOSED CONDITIONS, UTILITIES, PIPES AND STRUCTURES, ETC. PRIOR TO BIDDING AND CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES, INCLUDING DEPTHS, PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY AND ALL COST OR OTHER LIABILITIES INCURRED DUE TO DAMAGE OF SAID UTILITIES/STRUCTURES/ETC.

2. SEE STANDARD SPECIFICATIONS, SPV'S, AND DETAILS FOR PLANTING METHODS, REQUIREMENTS, SOIL TESTING, MATERIALS, EXECUTION AND PLANT PROTECTION, PLANT STAKING METHODS, PLANT PIT DIMENSIONS, BACKFILL AND OTHER RELATED REQUIREMENTS.

3. PLANT NAMES ARE ABBREVIATED ON THE DRAWINGS. SEE PLANT LEGEND FOR SYMBOLS, ABBREVIATIONS, BOTANICAL/COMMON NAMES, SIZES, ESTIMATED QUANTITIES AND OTHER REMARKS.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH ALL PLANT MATERIALS FREE OF PESTS OR PLANT DISEASES. IT IS THE CONTRACTOR'S OBLIGATION TO MAINTAIN AND WARRANTY ALL PLANT MATERIALS PER THE SPECIFICATIONS. ALL PLANTS SHALL BE SUBJECT TO OWNER'S APPROVAL PRIOR TO INSTALLATION.

5. THE CONTRACTOR SHALL FINE GRADE, RAKE AND BE RESPONSIBLE FOR POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND THROUGHOUT SITE, WITH ACCURATELY SET FLOW LINES. NO LOW SPOTS OR PONDING OF SURFACE WATER WILL BE ACCEPTED IN THE FINAL WORK.

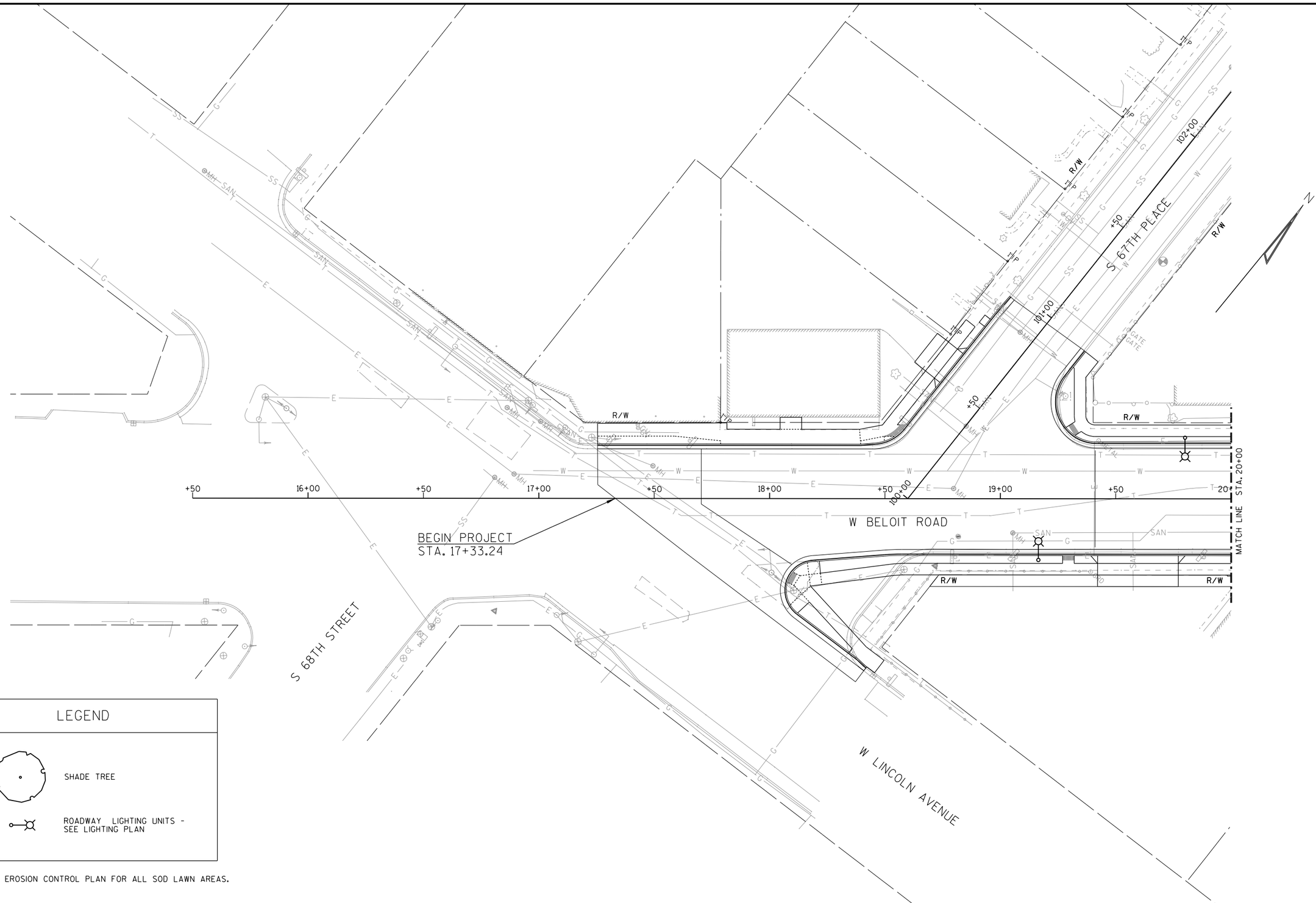
6. COORDINATE INSTALLATION OF ALL TREES WITH INSTALLATION OF ALL ADJACENT PAVEMENTS, PLANTER CURBING, ROADWAY CURB & GUTTER AND RELATED STRUCTURES. ANY DAMAGE TO EXISTING IMPROVEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.

PLANT DATA CHART

SYMBOL	COMMON NAME	SCIENTIFIC NAME	AVE. MATURE HEIGHT	SIZE WHEN PLANTED	ROOT CONDITION	MINIMUM SIZE					BRACE OR GUY	FERT UNITS REQ'D	RODENT PROTCT REQ'D	MULCH RING DIAM.
						BALL/POT		ROOT SPREAD	PLANT HOLE					
						DIAM.	DEPTH		DIAM.	DEPTH				
	LARGE DECIDUOUS TREES													
ULF	ELM, FRONTIER	ULMUS 'FRONTIER'	40'	2.5" CAL	B&B	28"	16"	25'	52"	16"	NO	4	NO	N/A
GBP	GINKGO, PRINCETON SENTRY	GINKGO BILOBA 'PRINCETON SENTRY'	45'	2.5" CAL	B&B	28"	16"	20'	52"	16"	NO	4	NO	N/A
CPS	HACKBERRY, PRAIRIE SENTINEL	CELTIS OCCIDENTALIS 'PRAIRIE SENTINEL'	45'	2.5" CAL	B&B	28"	16"	15'	52"	16"	NO	4	NO	N/A
GTD	HONEYLOCUST, STREETKEEPER	GLEDITSIA TRIACANTHOS 'DRAVES'	45'	2.5" CAL	B&B	28"	16"	20'	52"	16"	NO	4	NO	N/A
ZSM	ZELKOVA, MUSASHINO	ZELKOVA SERRATA 'MUSASHINO'	45'	2.5" CAL	B&B	28"	16"	15'	52"	16"	NO	4	NO	N/A

B&B: BALLED AND BURLAPED

2



LEGEND

- SHADE TREE
- ROADWAY LIGHTING UNITS - SEE LIGHTING PLAN

NOTE:
REFER TO EROSION CONTROL PLAN FOR ALL SOD LAWN AREAS.

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LANDSCAPE PLAN	SHEET 89	E

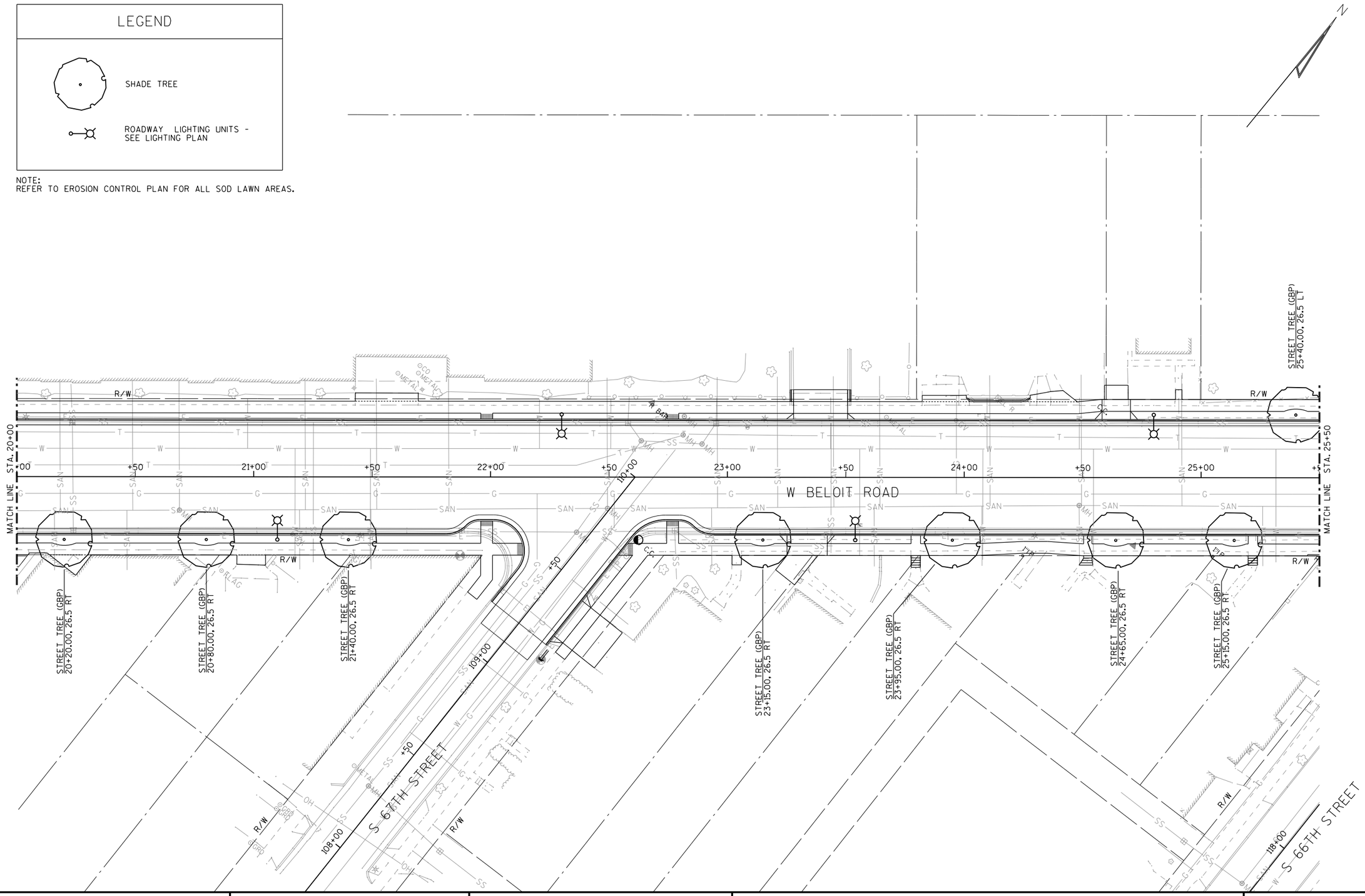
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WISDOT/CADDS SHEET 42

LEGEND

SHADE TREE

ROADWAY LIGHTING UNITS - SEE LIGHTING PLAN

NOTE:
REFER TO EROSION CONTROL PLAN FOR ALL SOD LAWN AREAS.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LANDSCAPE PLAN	SHEET 90	E

2

LEGEND

SHADE TREE

ROADWAY LIGHTING UNITS - SEE LIGHTING PLAN

NOTE:
REFER TO EROSION CONTROL PLAN FOR ALL SOD LAWN AREAS.

N

S 66TH STREET

S 65TH STREET

W BELOIT ROAD

W GRANT STREET

STREET TREE (GBP) 26+00.00, 26.5 LT

STREET TREE (ZSM) 27+90.00, 26.5 LT

STREET TREE (ZSM) 28+45.00, 26.5 LT

STREET TREE (ZSM) 29+00.00, 26.5 LT

STREET TREE (ZSM) 29+60.00, 26.5 LT

STREET TREE (GBP) 25+70.00, 26.5 RT

STREET TREE (ZSM) 26+90.00, 26.5 RT

STREET TREE (ZSM) 27+55.00, 26.5 RT

STREET TREE (ZSM) 28+15.00, 26.5 RT

STREET TREE (ZSM) 28+80.00, 26.5 RT

STREET TREE (ZSM) 29+40.00, 26.5 RT

MATCH LINE STA. 25+50

MATCH LINE STA. 31+50

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LANDSCAPE PLAN	SHEET 91	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\023103_pl.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

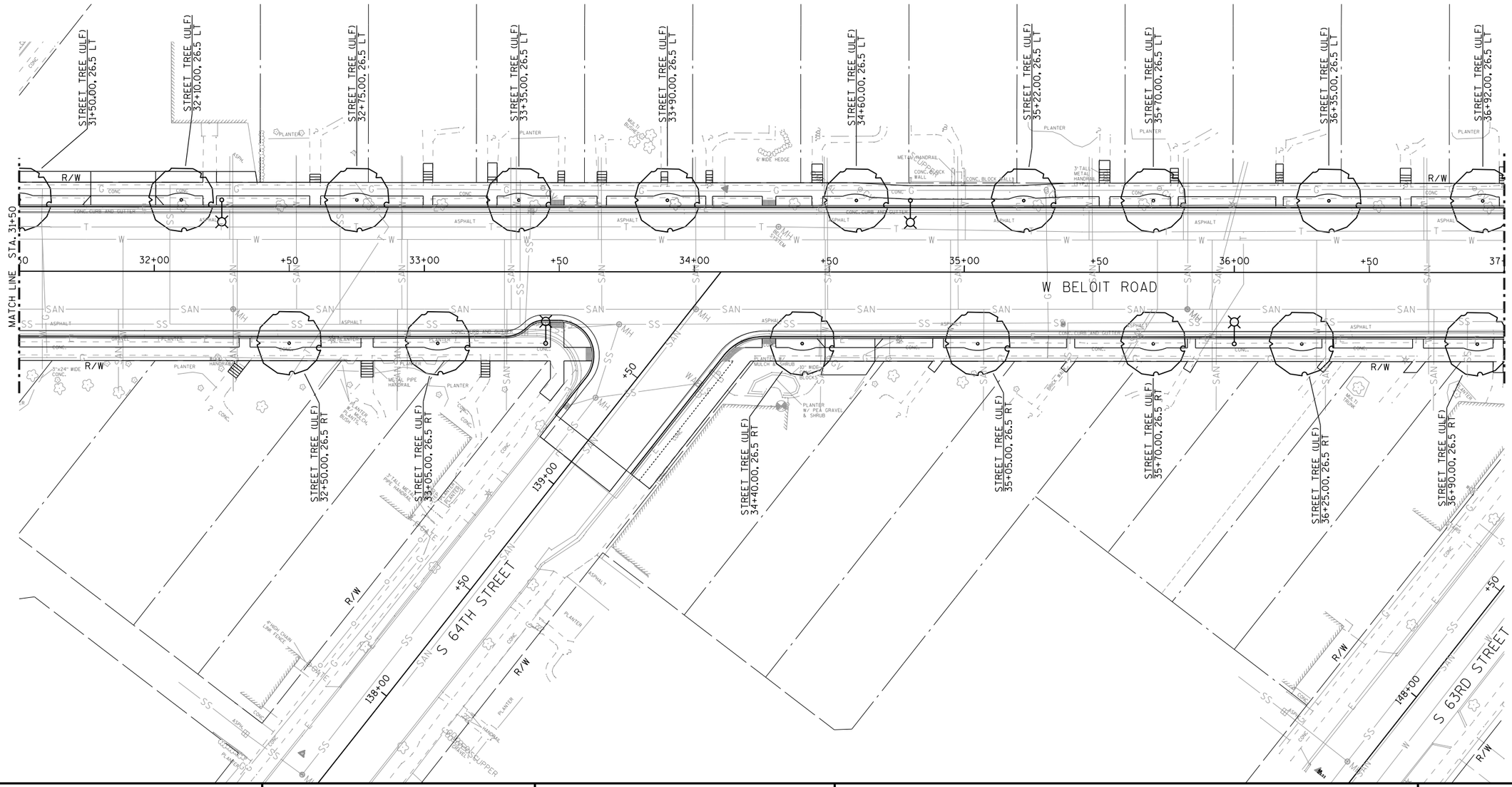
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LEGEND

SHADE TREE

ROADWAY LIGHTING UNITS - SEE LIGHTING PLAN

NOTE:
REFER TO EROSION CONTROL PLAN FOR ALL SOD LAWN AREAS.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LANDSCAPE PLAN	SHEET 92 E

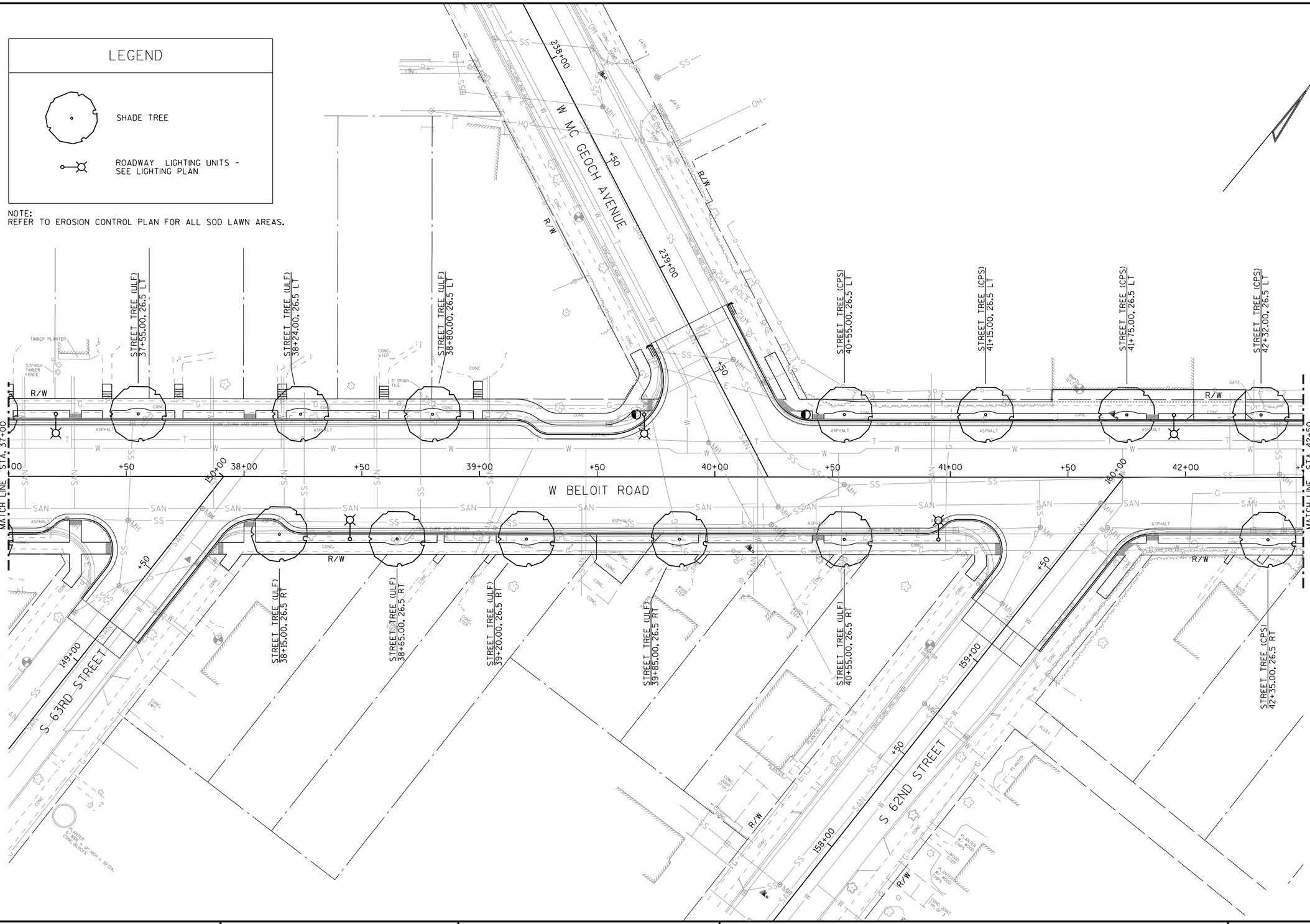
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LEGEND

SHADE TREE

ROADWAY LIGHTING UNITS - SEE LIGHTING PLAN

NOTE:
REFER TO EROSION CONTROL PLAN FOR ALL SOD LAWN AREAS.



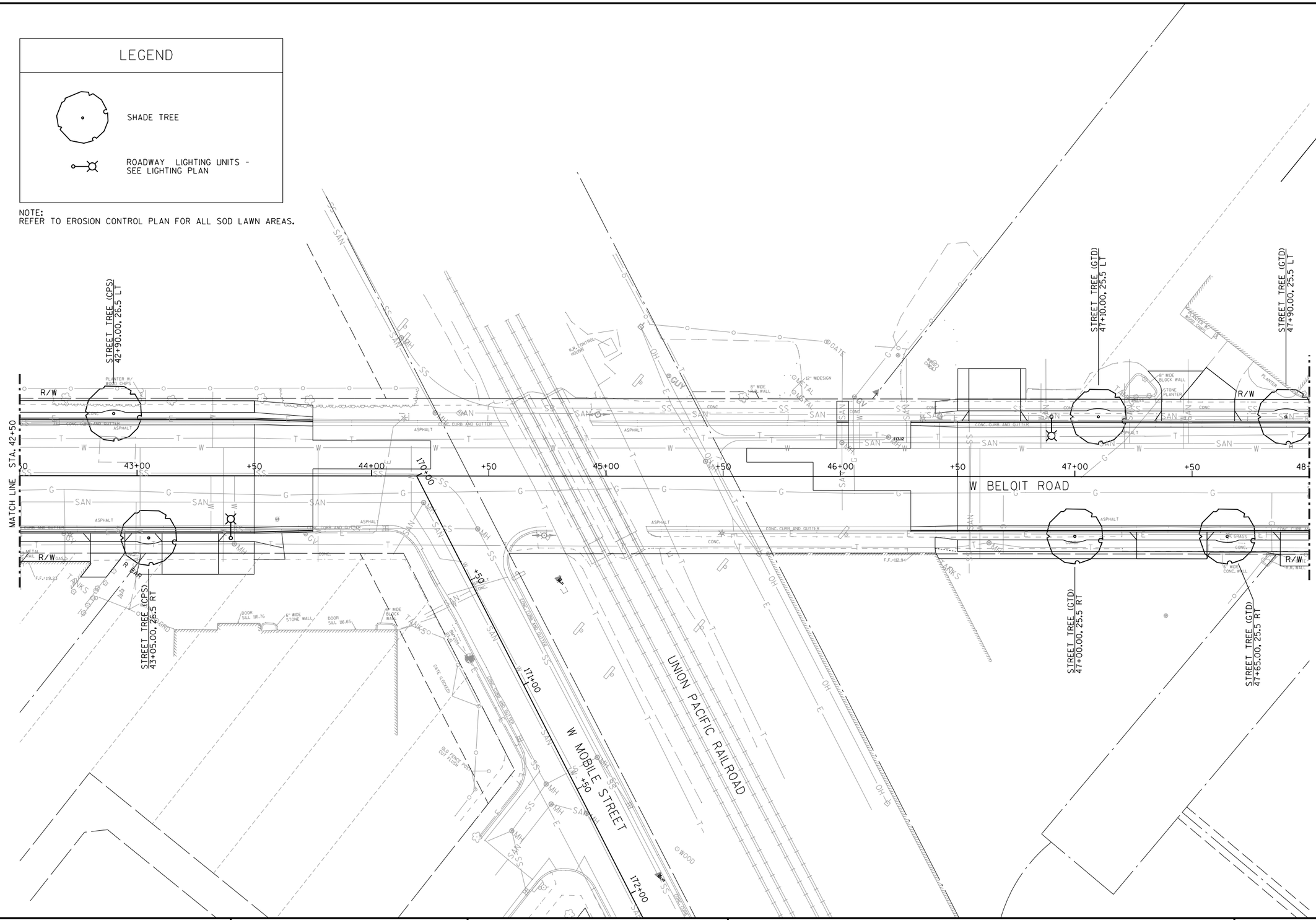
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LANDSCAPE PLAN	SHEET 93	E

LEGEND

SHADE TREE

ROADWAY LIGHTING UNITS - SEE LIGHTING PLAN

NOTE:
REFER TO EROSION CONTROL PLAN FOR ALL SOD LAWN AREAS.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LANDSCAPE PLAN	SHEET 94	E

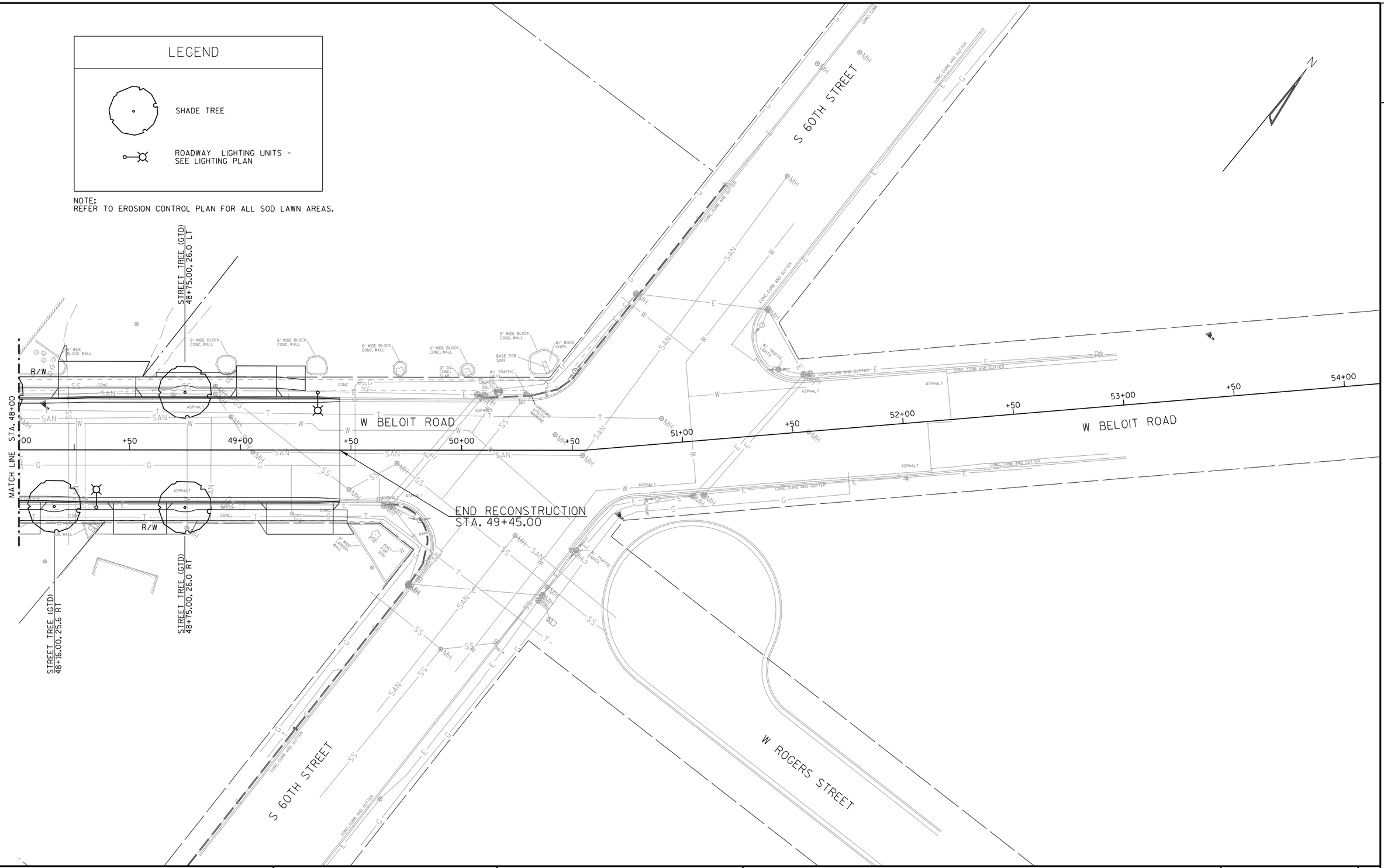
2

LEGEND

SHADE TREE

ROADWAY LIGHTING UNITS - SEE LIGHTING PLAN

NOTE:
REFER TO EROSION CONTROL PLAN FOR ALL SOD LAWN AREAS.

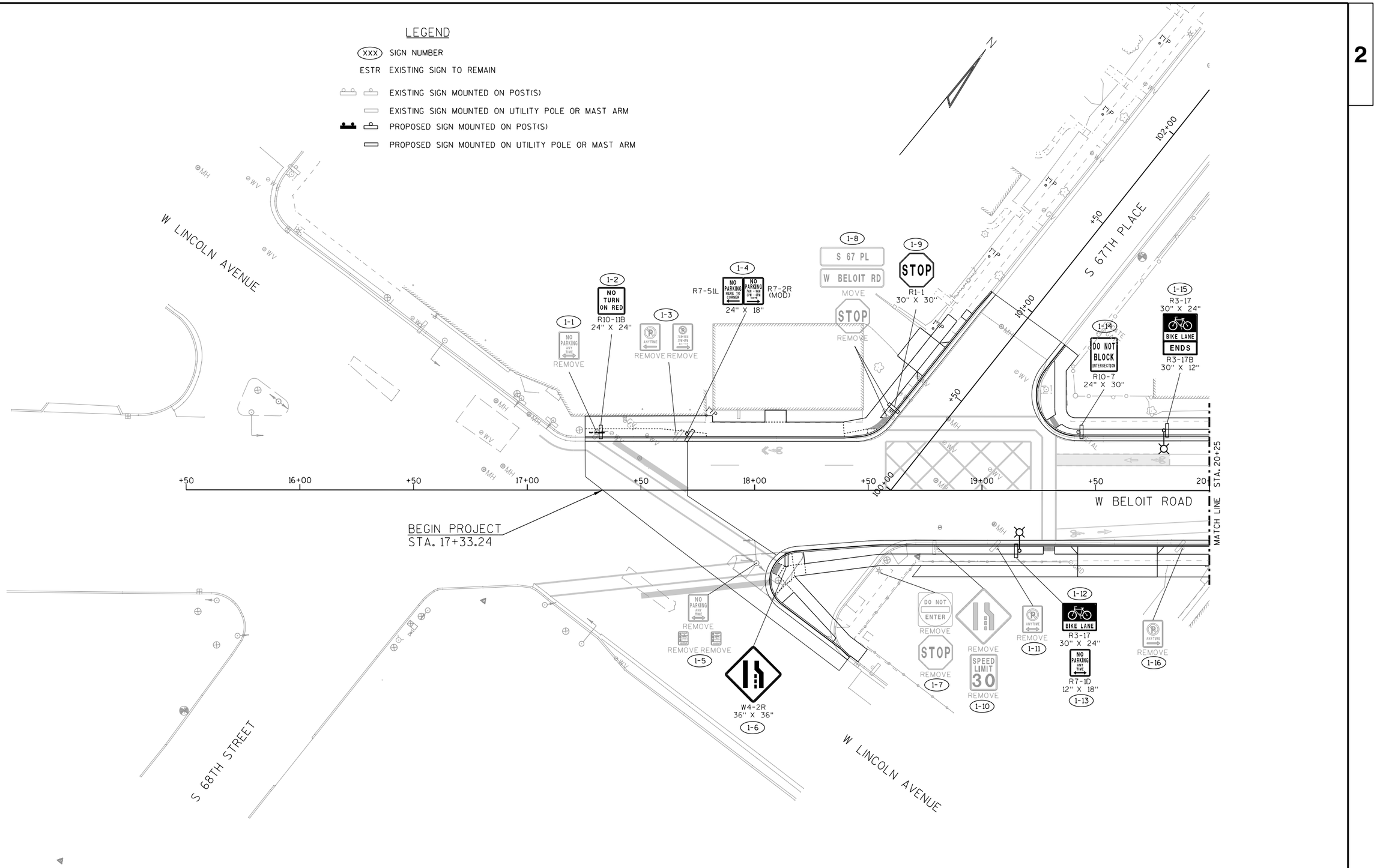


PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LANDSCAPE PLAN	SHEET 95	E

2

LEGEND

- (XXX) SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 96	E

2

2

LEGEND

(XXX) SIGN NUMBER

ESTR EXISTING SIGN TO REMAIN

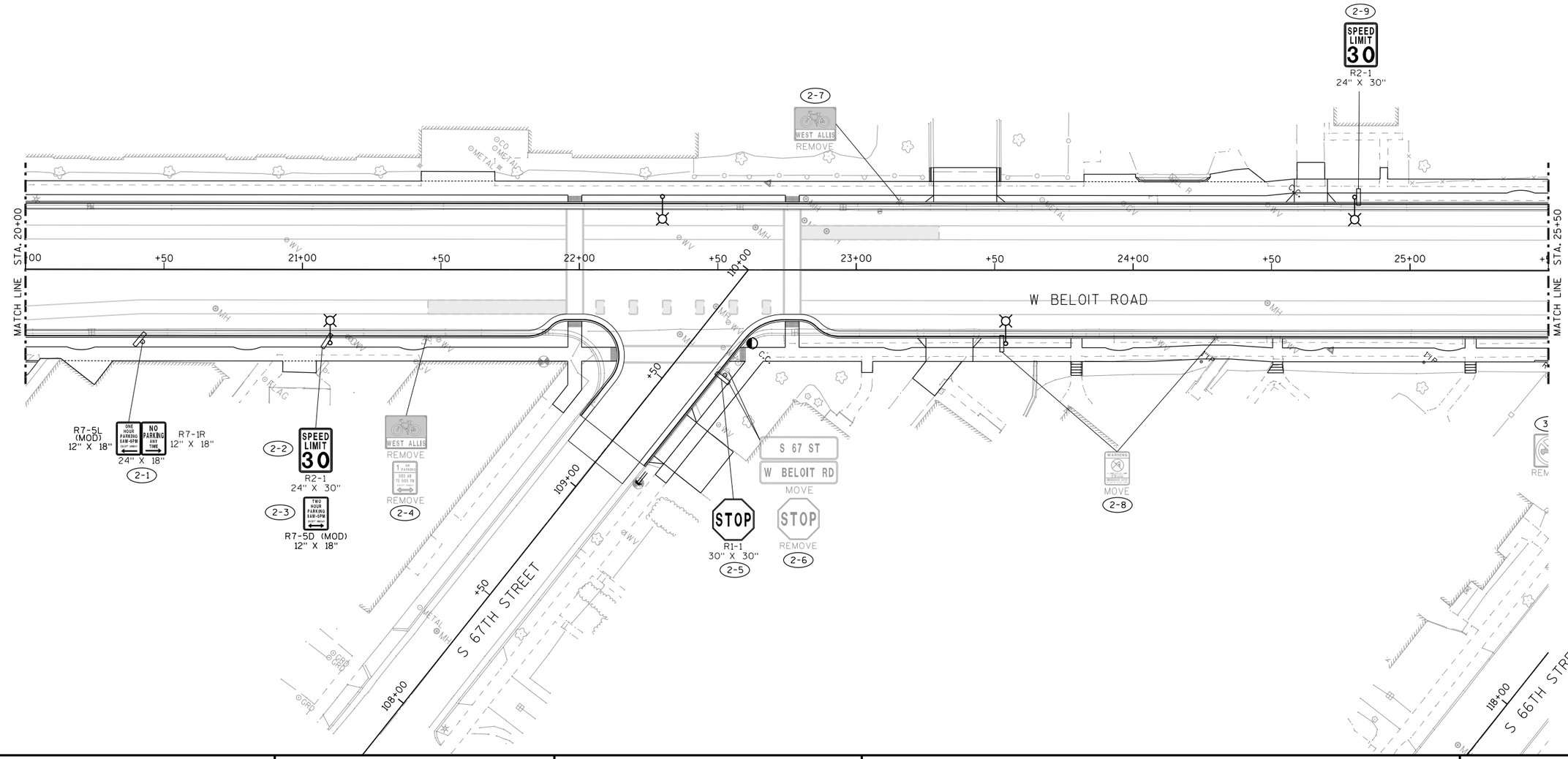
EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM

N



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 97	E

2

LEGEND

- (XXX) SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM

N

W BELOIT ROAD

S 66TH STREET

S 65TH STREET

W GRANT STREET

MATCH LINE STA. 25+50

MATCH LINE STA. 31+50

3-2 R5-2 24" X 24"

3-3 R1-1 30" X 30"

3-4 STOP REMOVE

3-5 S 66 ST / W BELOIT RD MOVE

3-6 STOP R1-1 30" X 30"

3-7 ANYTIME REMOVE

3-8 NO PARKING ANY TIME R7-1D 12" X 18"

3-9 STOP R1-1 30" X 30"

3-10 ANYTIME REMOVE

3-11 R5-2 24" X 24"

3-12 REMOVE

3-13 STOP REMOVE

3-14 S 66 ST / W GRANT ST MOVE

3-15 STOP REMOVE

3-16 SPEED LIMIT 30 REMOVE

3-17 STOP REMOVE

3-18 S1-1 36" X 36"

3-19 AHEAD S16-9P 30" X 18"

3-20 BIKE LANE R3-17 30" X 24"

3-21 REMOVE

3-22 W GRANT ST / W BELOIT RD REMOVE

3-23 BIKE LANE R3-17 30" X 24"

3-24 EAST ALLIS MOVE

3-25 WARNING REMOVE

3-26 STOP REMOVE

3-27 ANYTIME REMOVE

3-28 STOP REMOVE

3-29 STOP REMOVE

3-30 REMOVE

3-31 S1-1 36" X 36"

3-32 S16-7L 30" X 18"

3-33 R5-2 24" X 24"

3-34 STOP R1-1 30" X 30"

3-35 S 65 ST / W BELOIT RD MOVE

3-36 STOP REMOVE

3-37 STOP R1-1 30" X 30"

3-38 STOP REMOVE

3-39 STOP R1-1 30" X 30"

3-40 S 65 ST / W BELOIT RD MOVE

3-41 SPEED LIMIT 30 R2-1 24" X 30"

3-42 S1-1 36" X 36"

3-43 S16-7L 30" X 18"

S 65 ST / W GRANT ST ESTR

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 98	E

2

2

LEGEND

(XXX) SIGN NUMBER

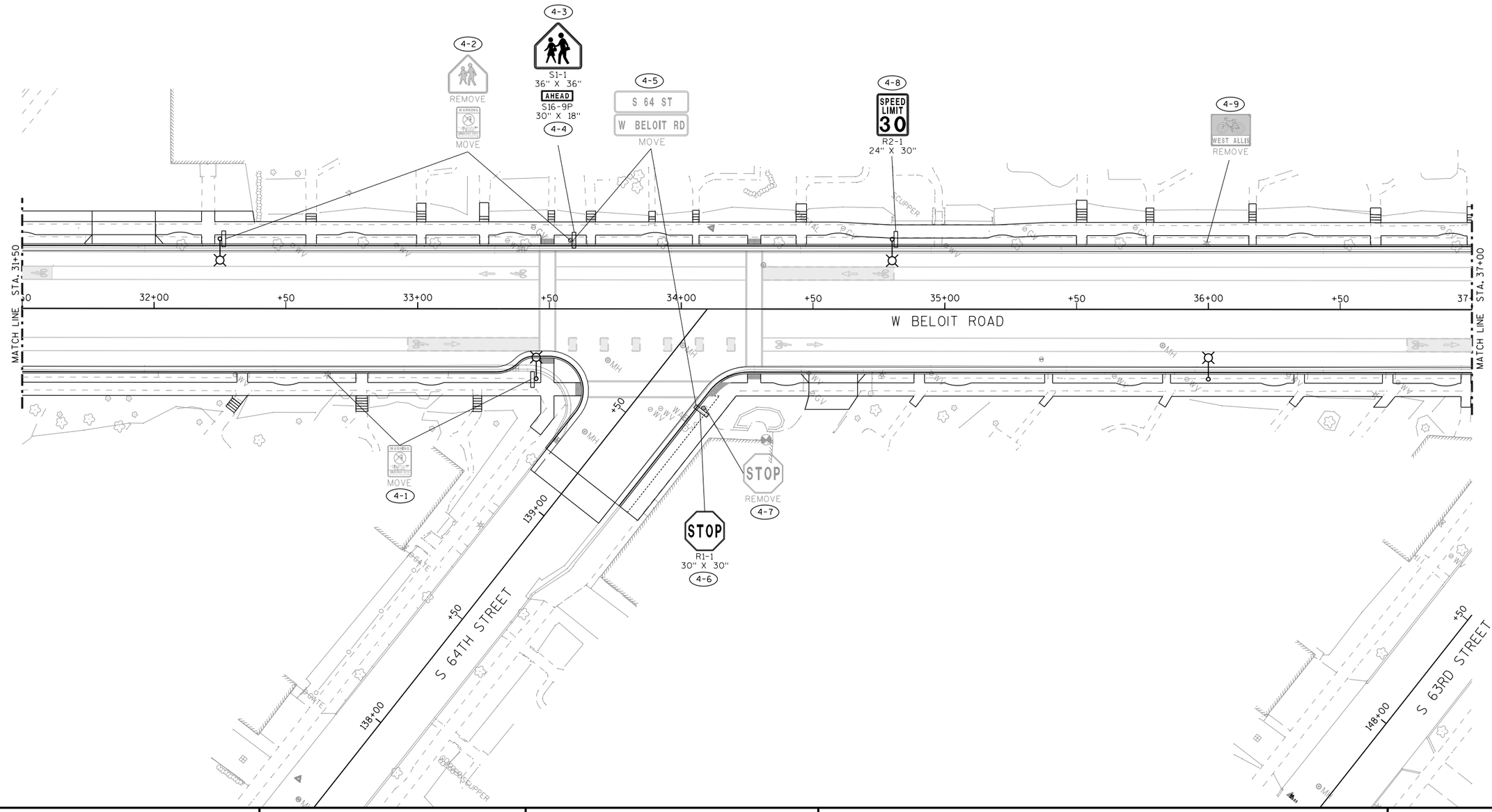
ESTR EXISTING SIGN TO REMAIN

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 99	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\023204_ps.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

2

2

LEGEND

- (XXX) SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM

N

W MC GEOCH AVENUE

W BELOIT ROAD

S 63RD STREET

S 62ND STREET

MATCH LINE STA. 37+00

MATCH LINE STA. 42+50

5-1 REMOVE

5-2 BIKE LANE R3-17 30" X 24"

5-3 TWO HOUR PARKING 8AM-4PM R7-5R (MOD) 12" X 18"

5-4 R5-2 24" X 24"

5-5 REMOVE

5-6 REMOVE

5-7 STOP R1-1 30" X 30"

5-8 STOP REMOVE; S 63 ST; W BELOIT RD MOVE

5-9 BIKE LANE R3-17 30" X 24"

5-10 TWO HOUR PARKING 8AM-4PM R7-5D (MOD) 12" X 18"

5-11 TWO HOUR PARKING 8AM-4PM R7-5D (MOD) 12" X 18"

5-12 REMOVE

5-13 REMOVE

5-14 WARNING REMOVE MOVE

5-15 STOP REMOVE

5-16 STOP R1-1 30" X 30"

5-17 W MCGEOCH AV; W BELOIT RD MOVE

5-18 REMOVE

5-19 NO PARKING ANY TIME R7-1D 12" X 18"

5-20 TWO HOUR PARKING 8AM-4PM R7-5D (MOD) 12" X 18"

5-21 REMOVE

5-22 WARNING MOVE

5-23 R5-2 24" X 24"

5-24 REMOVE

5-25 SPEED LIMIT 30 REMOVE; ANYTIME REMOVE

5-26 S 62 ST; W BELOIT RD MOVE

5-27 STOP R1-1 30" X 30"

5-28 STOP REMOVE

5-29 NO PARKING HERE TO CORNER R7-51L 12" X 18"

149+00 150+00 158+00 159+00

38+00 39+00 40+00 41+00 42+00

+50

238+00 239+00

PROJECT NO:2525-03-71	HWY:W BELOIT ROAD	COUNTY:MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 100	E

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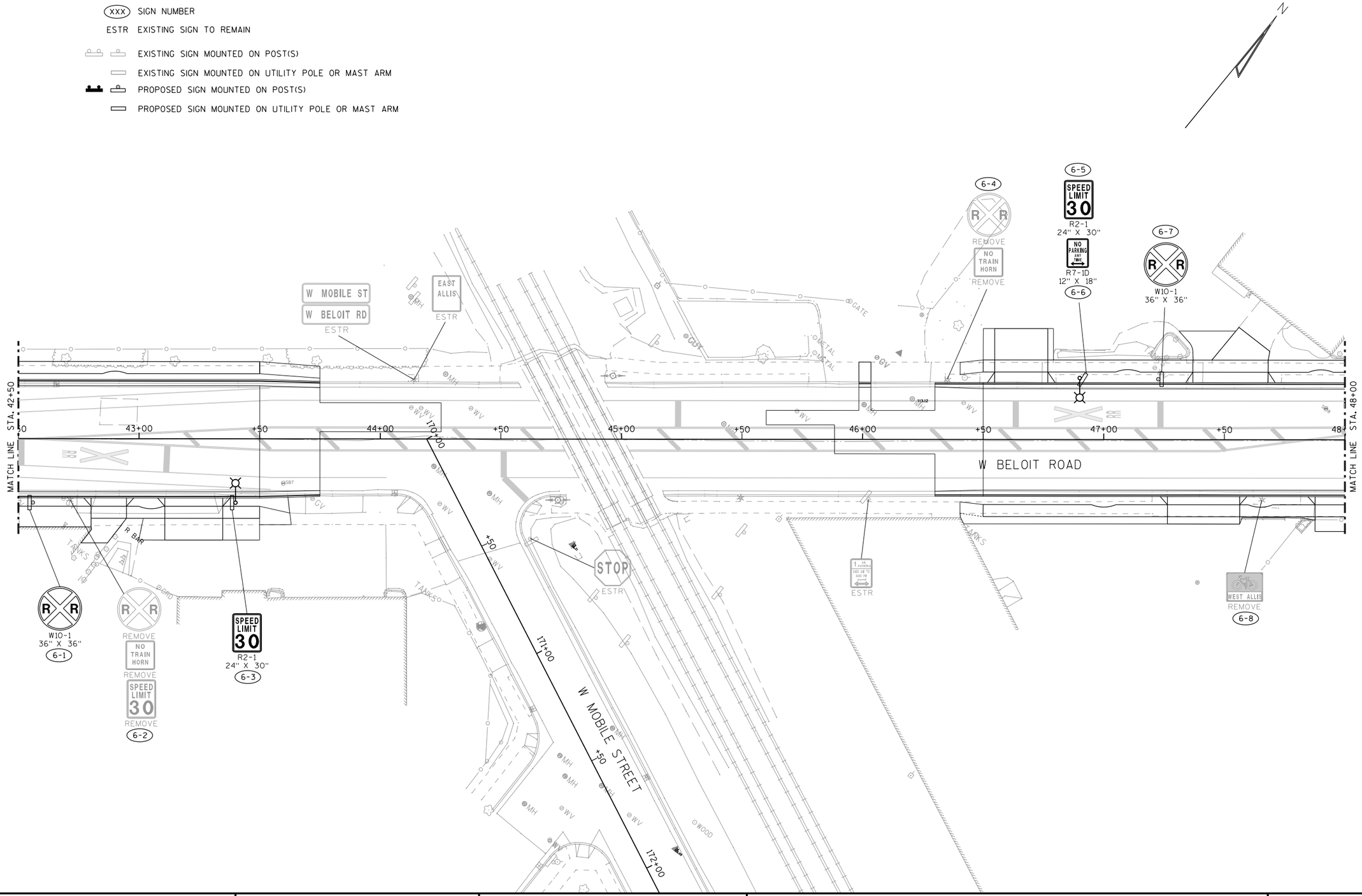
WISDOT/CADDS SHEET 42

2

2

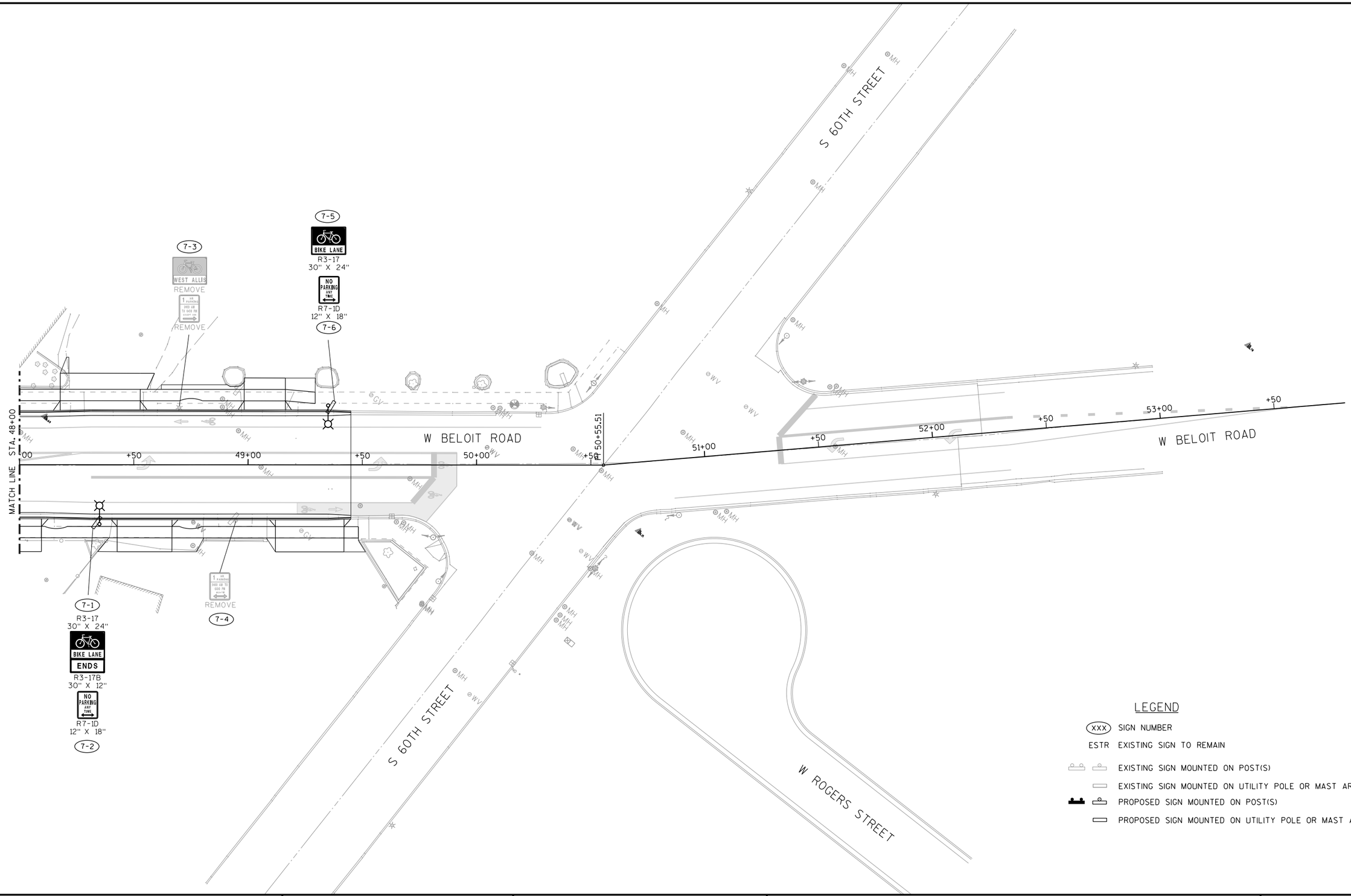
LEGEND

- (XXX) SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON UTILITY POLE OR MAST ARM
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON UTILITY POLE OR MAST ARM



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 101	E

2



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 102	E

LIGHTING PLAN LEGEND

EXISTING MUNICIPAL POLE, ARM, LUMINAIRE, AND BASE TO BE REMOVED.

EXISTING MUNICIPAL POLE, ARM, AND LUMINAIRE TO REMAIN.

EXISTING DIRECT BURIED CONDUIT AND/OR CABLING TO BE REMOVED.

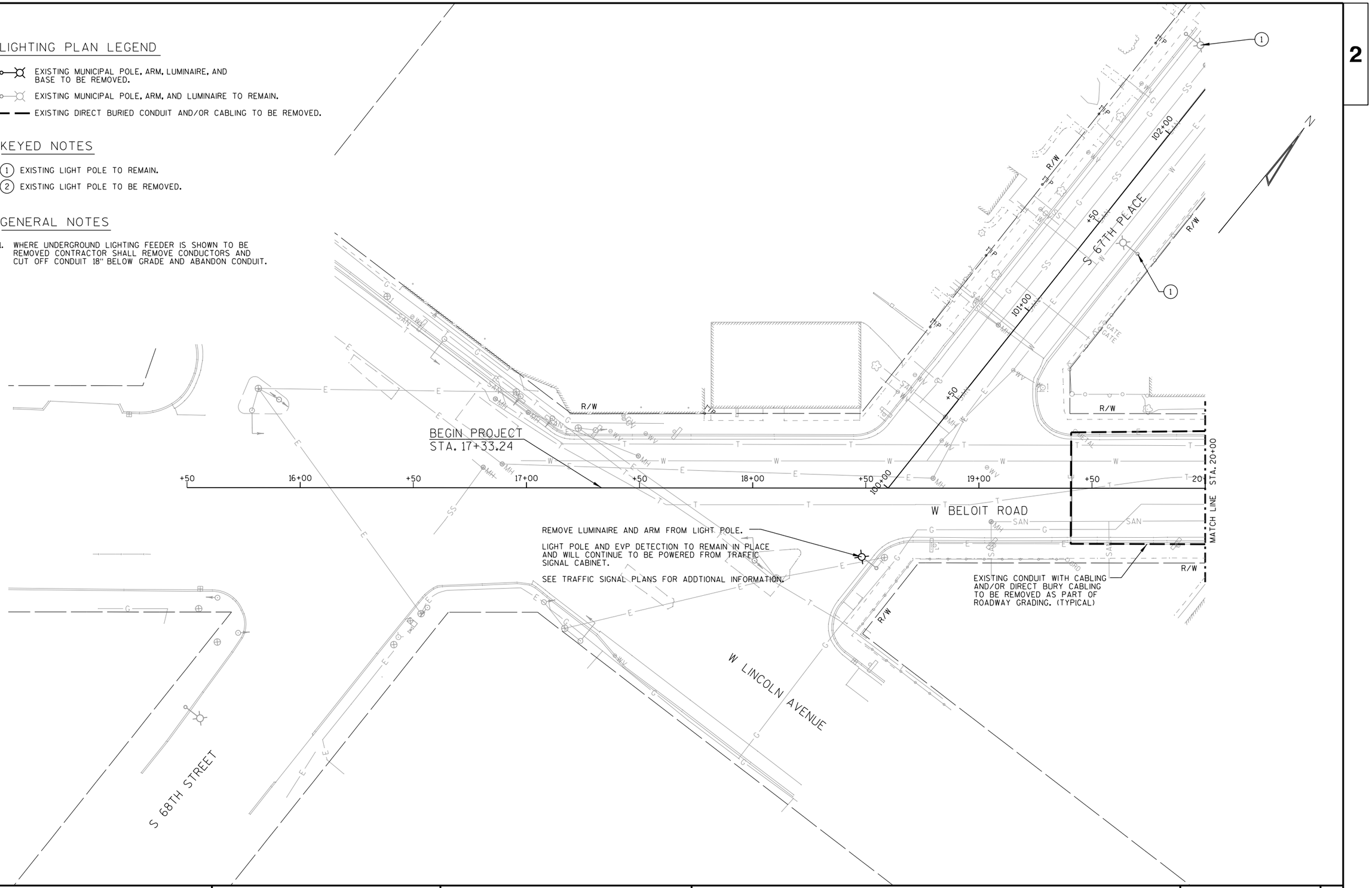
KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN.

(2) EXISTING LIGHT POLE TO BE REMOVED.

GENERAL NOTES

1. WHERE UNDERGROUND LIGHTING FEEDER IS SHOWN TO BE REMOVED CONTRACTOR SHALL REMOVE CONDUCTORS AND CUT OFF CONDUIT 18" BELOW GRADE AND ABANDON CONDUIT.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING REMOVAL PLAN	SHEET 103	E

LIGHTING PLAN LEGEND

EXISTING MUNICIPAL POLE, ARM, LUMINAIRE, AND BASE TO BE REMOVED.

EXISTING MUNICIPAL POLE, ARM, AND LUMINAIRE TO REMAIN.

EXISTING DIRECT BURIED CONDUIT AND/OR CABLING TO BE REMOVED.

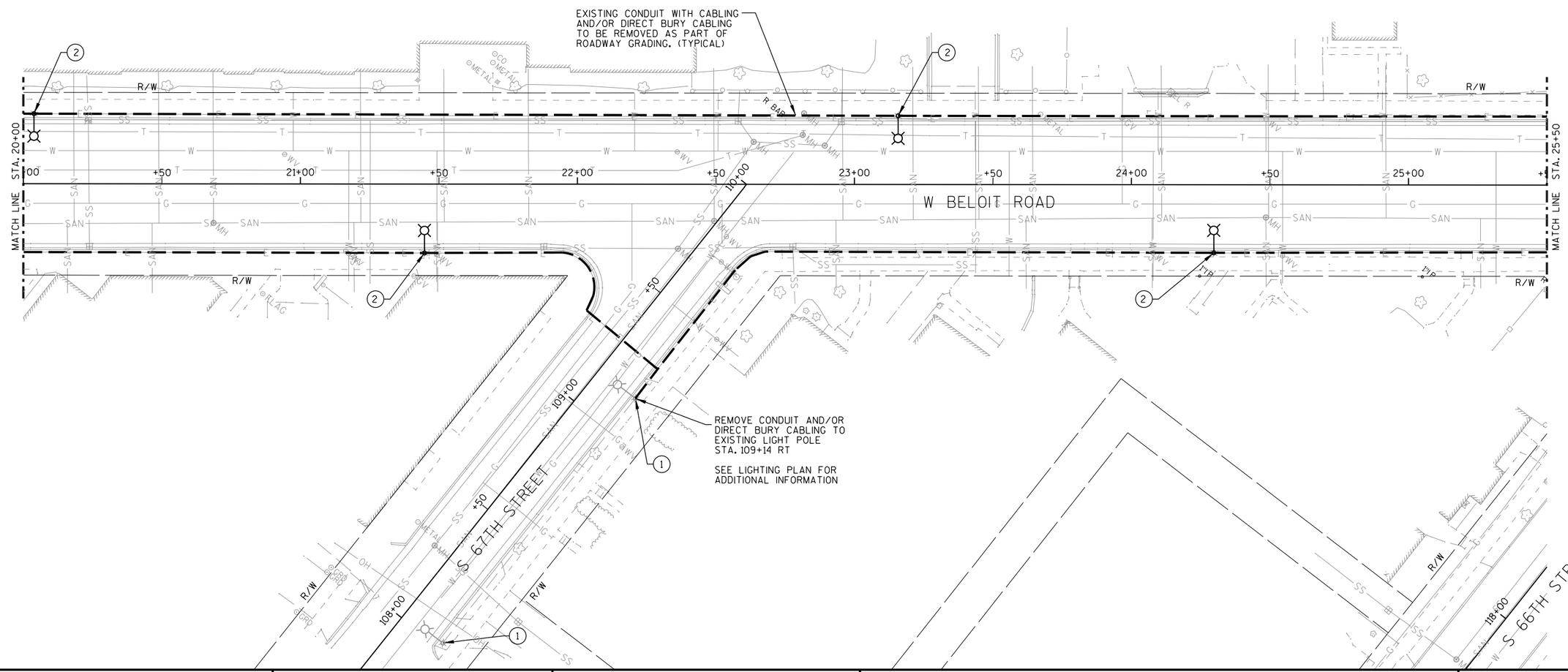
KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN.

(2) EXISTING LIGHT POLE TO BE REMOVED.

GENERAL NOTES

1. WHERE UNDERGROUND LIGHTING FEEDER IS SHOWN TO BE REMOVED CONTRACTOR SHALL REMOVE CONDUCTORS AND CUT OFF CONDUIT 18" BELOW GRADE AND ABANDON CONDUIT.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING REMOVAL PLAN	SHEET 104 E

2

LIGHTING PLAN LEGEND

- EXISTING MUNICIPAL POLE, ARM, LUMINAIRE, AND BASE TO BE REMOVED.
- EXISTING MUNICIPAL POLE, ARM, AND LUMINAIRE TO REMAIN.
- EXISTING DIRECT BURIED CONDUIT AND/OR CABLING TO BE REMOVED.

KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN.
(2) EXISTING LIGHT POLE TO BE REMOVED.

GENERAL NOTES

1. WHERE UNDERGROUND LIGHTING FEEDER IS SHOWN TO BE REMOVED CONTRACTOR SHALL REMOVE CONDUCTORS AND CUT OFF CONDUIT 18" BELOW GRADE AND ABANDON CONDUIT.

EXISTING DIRECT BURIED CONDUIT AND/OR CABLING TO BE REMOVED TO STA. 179+50 LT AS PART OF ROADWAY GRADING.

SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION

EXISTING CONDUIT WITH CABLING AND/OR DIRECT BURY CABLING TO BE REMOVED. AS PART OF ROADWAY GRADING. (TYPICAL)

REMOVE CONDUIT AND/OR DIRECT BURY CABLING TO EXISTING LIGHT POLE STA. 118+96 LT

SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION

S 66TH STREET

W GRANT STREET

S 65TH STREET

MATCH LINE STA. 25+50

MATCH LINE STA. 31+50

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING REMOVAL PLAN	SHEET 105	E

2

LIGHTING PLAN LEGEND

- EXISTING MUNICIPAL POLE, ARM, LUMINAIRE, AND BASE TO BE REMOVED.
- EXISTING MUNICIPAL POLE, ARM, AND LUMINAIRE TO REMAIN.
- EXISTING DIRECT BURIED CONDUIT AND/OR CABLING TO BE REMOVED.

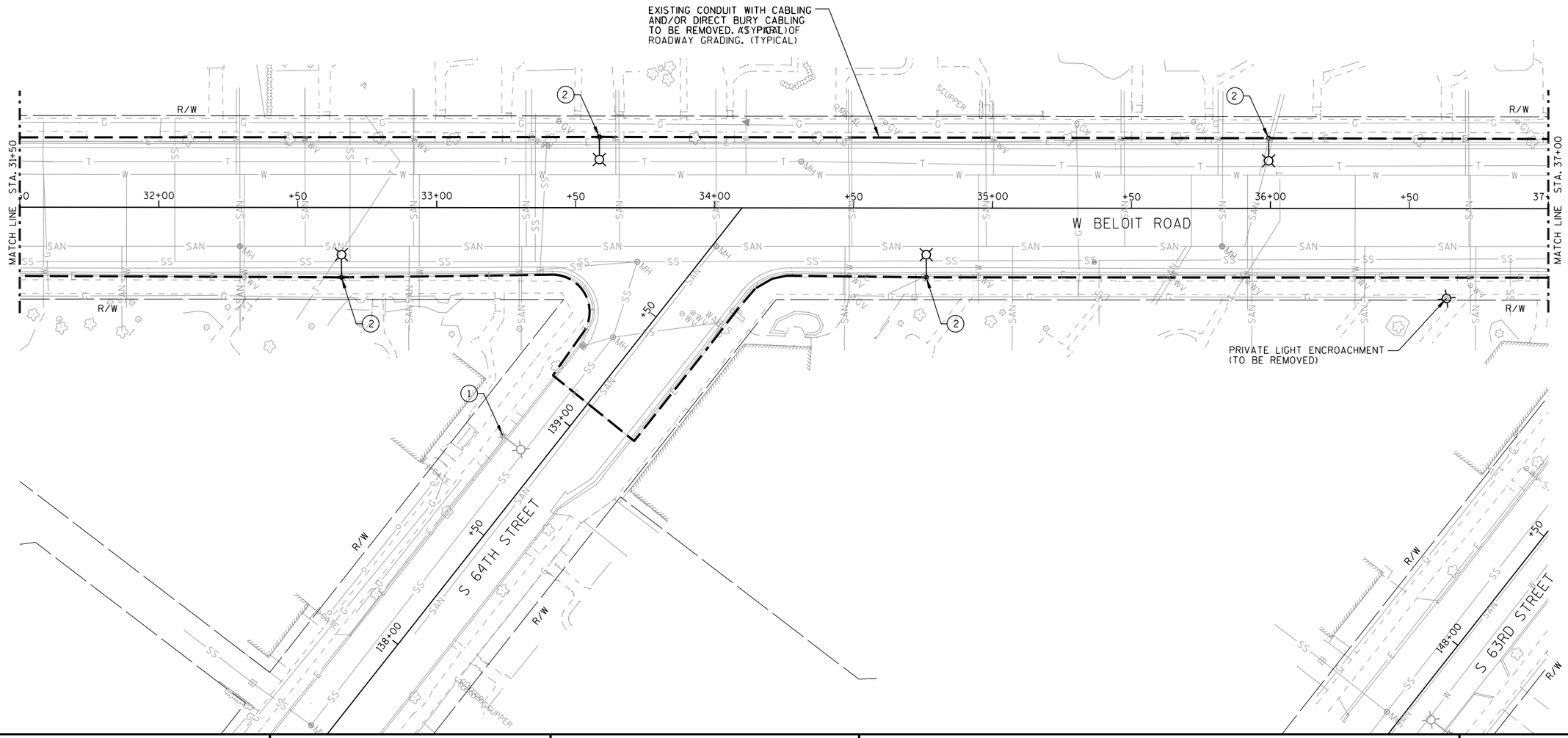
KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN.

(2) EXISTING LIGHT POLE TO BE REMOVED.

GENERAL NOTES

1. WHERE UNDERGROUND LIGHTING FEEDER IS SHOWN TO BE REMOVED CONTRACTOR SHALL REMOVE CONDUCTORS AND CUT OFF CONDUIT 18" BELOW GRADE AND ABANDON CONDUIT.



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	LIGHTING REMOVAL PLAN	SHEET 106	E

LIGHTING PLAN LEGEND

- EXISTING MUNICIPAL POLE, ARM, LUMINAIRE, AND BASE TO BE REMOVED.
- EXISTING MUNICIPAL POLE, ARM, AND LUMINAIRE TO REMAIN.
- EXISTING DIRECT BURIED CONDUIT AND/OR CABLING TO BE REMOVED.

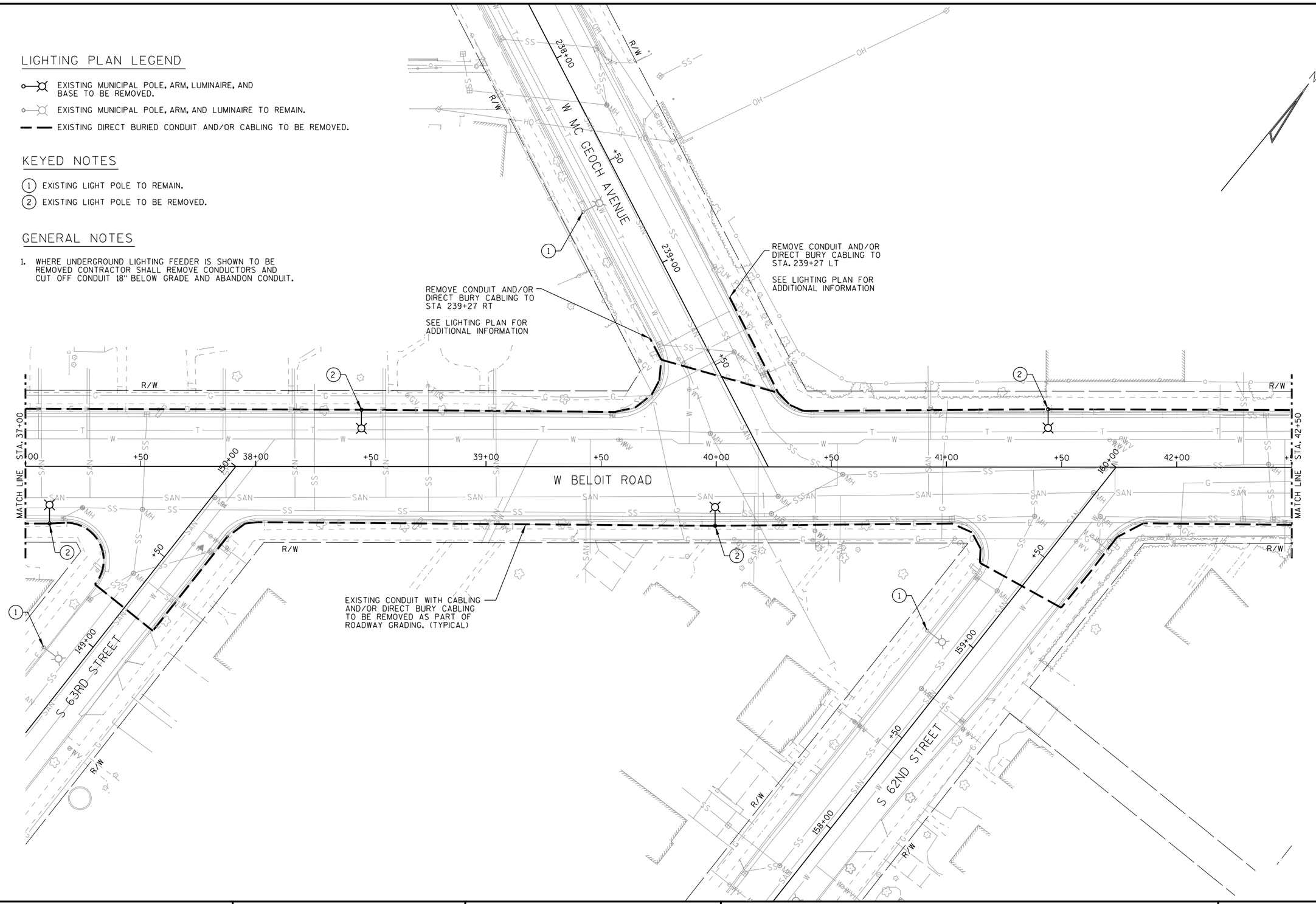
KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN.

(2) EXISTING LIGHT POLE TO BE REMOVED.

GENERAL NOTES

1. WHERE UNDERGROUND LIGHTING FEEDER IS SHOWN TO BE REMOVED CONTRACTOR SHALL REMOVE CONDUCTORS AND CUT OFF CONDUIT 18" BELOW GRADE AND ABANDON CONDUIT.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING REMOVAL PLAN	SHEET 107	E

LIGHTING PLAN LEGEND

- EXISTING MUNICIPAL POLE, ARM, LUMINAIRE, AND BASE TO BE REMOVED.
- EXISTING MUNICIPAL POLE, ARM, AND LUMINAIRE TO REMAIN.
- EXISTING DIRECT BURIED CONDUIT AND/OR CABLING TO BE REMOVED.

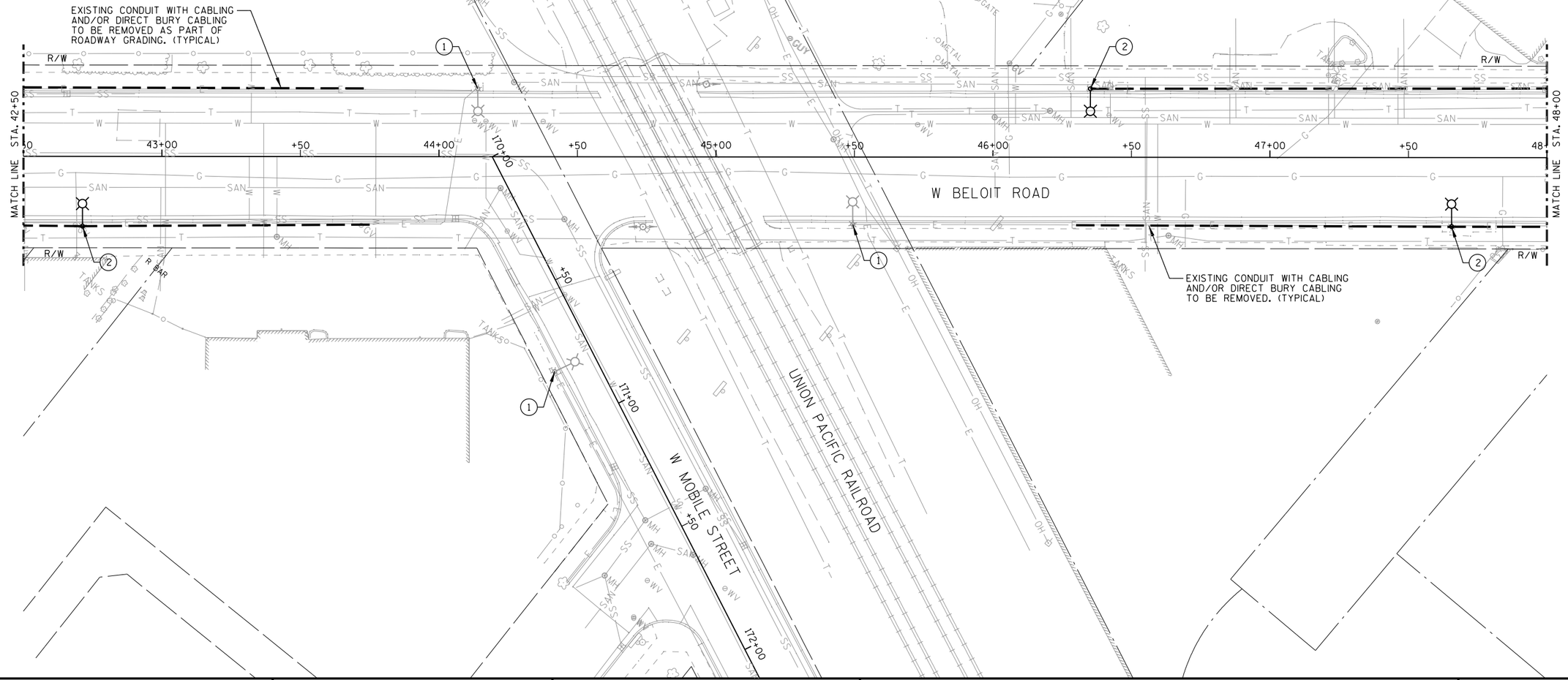
KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN.

(2) EXISTING LIGHT POLE TO BE REMOVED.

GENERAL NOTES

1. WHERE UNDERGROUND LIGHTING FEEDER IS SHOWN TO BE REMOVED CONTRACTOR SHALL REMOVE CONDUCTORS AND CUT OFF CONDUIT 18" BELOW GRADE AND ABANDON CONDUIT.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING REMOVAL PLAN	SHEET 108 E

2

NOTE:
EXISTING LIGHTING BETWEEN RAILROAD & 60TH STREET IS FED FROM LIGHTING CABINET AT THE INTERSECTION OF 60TH AND BURNHAM STREET.

EXISTING POLE #CA01955.

REMOVE CABLING IN EXISTING CONDUIT BETWEEN STA. 50+07 LT AND EXISTING POLE #CA01955.

SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION

REMOVE CABLING IN EXISTING CONDUIT BETWEEN STA. 49+65 RT AND EXISTING POLE #CA02031.

SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION

EXISTING TRAFFIC SIGNAL CABINET

TO EXISTING POLE #CA02031

S 60TH STREET

W BELOIT ROAD

W ROGERS STREET

MATCH LINE STA. 48+00

R/W

LIGHTING PLAN LEGEND

- EXISTING MUNICIPAL POLE, ARM, LUMINAIRE, AND BASE TO BE REMOVED.
- EXISTING MUNICIPAL POLE, ARM, AND LUMINAIRE TO REMAIN.
- EXISTING DIRECT BURIED CONDUIT AND/OR CABLING TO BE REMOVED.

KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN.
(2) EXISTING LIGHT POLE TO BE REMOVED.

GENERAL NOTES

1. WHERE UNDERGROUND LIGHTING FEEDER IS SHOWN TO BE REMOVED CONTRACTOR SHALL REMOVE CONDUCTORS AND CUT OFF CONDUIT 18" BELOW GRADE AND ABANDON CONDUIT.

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING REMOVAL PLAN	SHEET 109	E

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON PLANS.

FINAL OR TERMINATING CONCRETE BASE IN CONDUIT RUN SHALL HAVE 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. EXIT STUB SHALL BE SIZED AS USED THROUGHOUT CONDUIT RUN AS SHOWN AT ENTRANCE OF BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1". ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, UL LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF BASE REQUIRES DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND BASE BACKFILL SHALL BE TAMPED TIGHT AGAINST BARE CONCRETE BASE IN LAYERS OF 1'-0" OR LESS.

#4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER BASE OF TYPE 2 AND TYPE 5 BASES THROUGH 1" CONDUIT INSTALLED FOR GROUNDING PURPOSES. LEAVING 4 FOOT COIL OF WIRE ABOVE CONCRETE BASE. EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF ROD, ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS

WHEN ANCHOR RODS USING ALTERNATE "L" BEND ARE FURNISHED, 4" "L" BEND SHALL BE IN ADDITION TO SPECIFIED ANCHOR ROD BAR LENGTH. "L" BEND END SHALL NOT BE THREADED.

WELDING OF ANCHOR RODS TO CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF STANDARD SPECIFICATIONS (LATEST EDITION).

(1) MINIMUM DEPTH OF CONDUIT EXITING CONCRETE BASE AND INSTALLED BELOW TRAVELED WAY SHALL BE 24". MINIMUM DEPTH OF CONDUIT EXITING CONCRETE BASE NOT INSTALLED BELOW TRAVELED WAY SHALL BE 18". MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36" EXCEPT WITH WRITTEN APPROVAL BY ENGINEER.

(2) (4) $\frac{3}{4}$" DIAMETER X 5'-0" ANCHOR RODS WITH 4" L BEND.

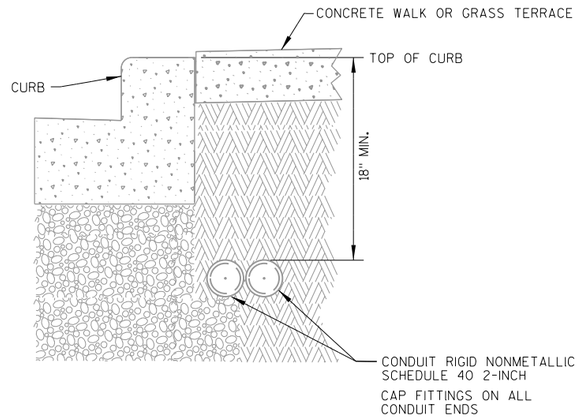
(3) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

(4) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

NOTE:

1.) KEEP AREA BEHIND CURB FREE OF DEBRIS AND CONCRETE OVERPOUR.

2.) CONDUIT TO BE PLACED WITHIN A 6" AREA DIRECTLY BEHIND CURB, UNLESS NOTED OR APPROVED BY ENGINEER.



TYPICAL CONDUIT INSTALLATION

NTS

LIGHTING PLAN LEGEND

- MUNICIPAL LIGHT POLE WITH SINGLE ARM AND LUMINAIRE. PROVIDE NEW CONCRETE BASE TYPE 5.
- EXISTING MUNI. POLE, ARM, AND LUMINAIRE TO REMAIN.
- LIGHTING CONTROL CABINET
- PULL BOX (24" X 36")
- CONDUIT (SEE CABLE AND CONDUIT LEGEND)
- CONDUIT STUBOUT

C 1 XXXX
STA. XX+XX.XX, XX.X LT = LOCATION (CENTER OF POLE)
C-5(T)-6

- LIGHTING AREA
- CONTROL CABINET/BREAKER NUMBER
- POLE NUMBER
- LUMINAIRE ARM LENGTH
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION

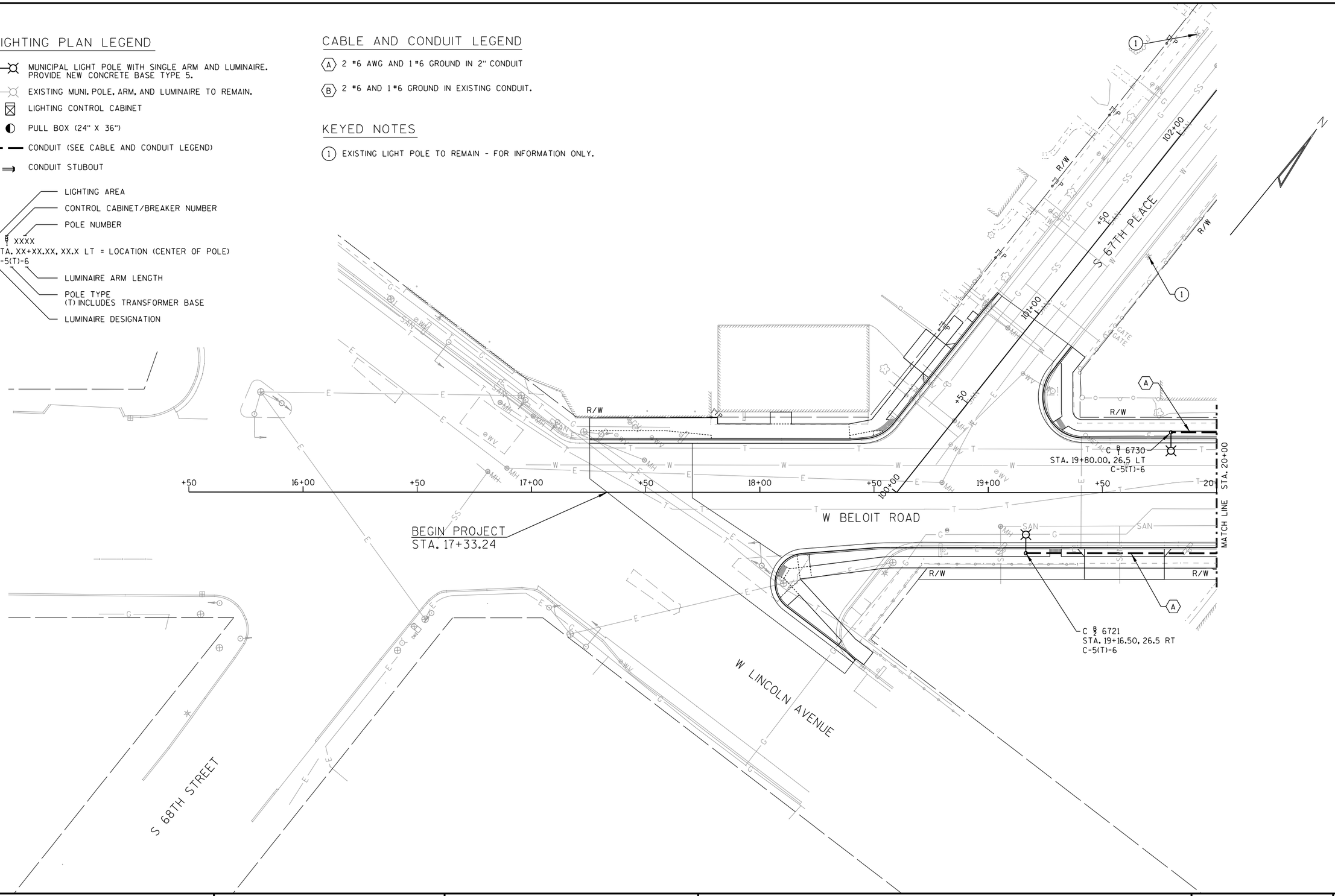
CABLE AND CONDUIT LEGEND

(A) 2 #6 AWG AND 1 #6 GROUND IN 2" CONDUIT

(B) 2 #6 AND 1 #6 GROUND IN EXISTING CONDUIT.

KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN - FOR INFORMATION ONLY.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING PLAN	SHEET 111	E

LIGHTING PLAN LEGEND

- MUNICIPAL LIGHT POLE WITH SINGLE ARM AND LUMINAIRE. PROVIDE NEW CONCRETE BASE TYPE 5.
- EXISTING MUNI. POLE, ARM, AND LUMINAIRE TO REMAIN.
- LIGHTING CONTROL CABINET
- PULL BOX (24" X 36")
- CONDUIT (SEE CABLE AND CONDUIT LEGEND)
- CONDUIT STUBOUT

C ℄ XXXX
STA. XX+XX.XX, XX.X LT = LOCATION (CENTER OF POLE)
C-5(T)-6

- LIGHTING AREA
- CONTROL CABINET/BREAKER NUMBER
- POLE NUMBER
- LUMINAIRE ARM LENGTH
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION

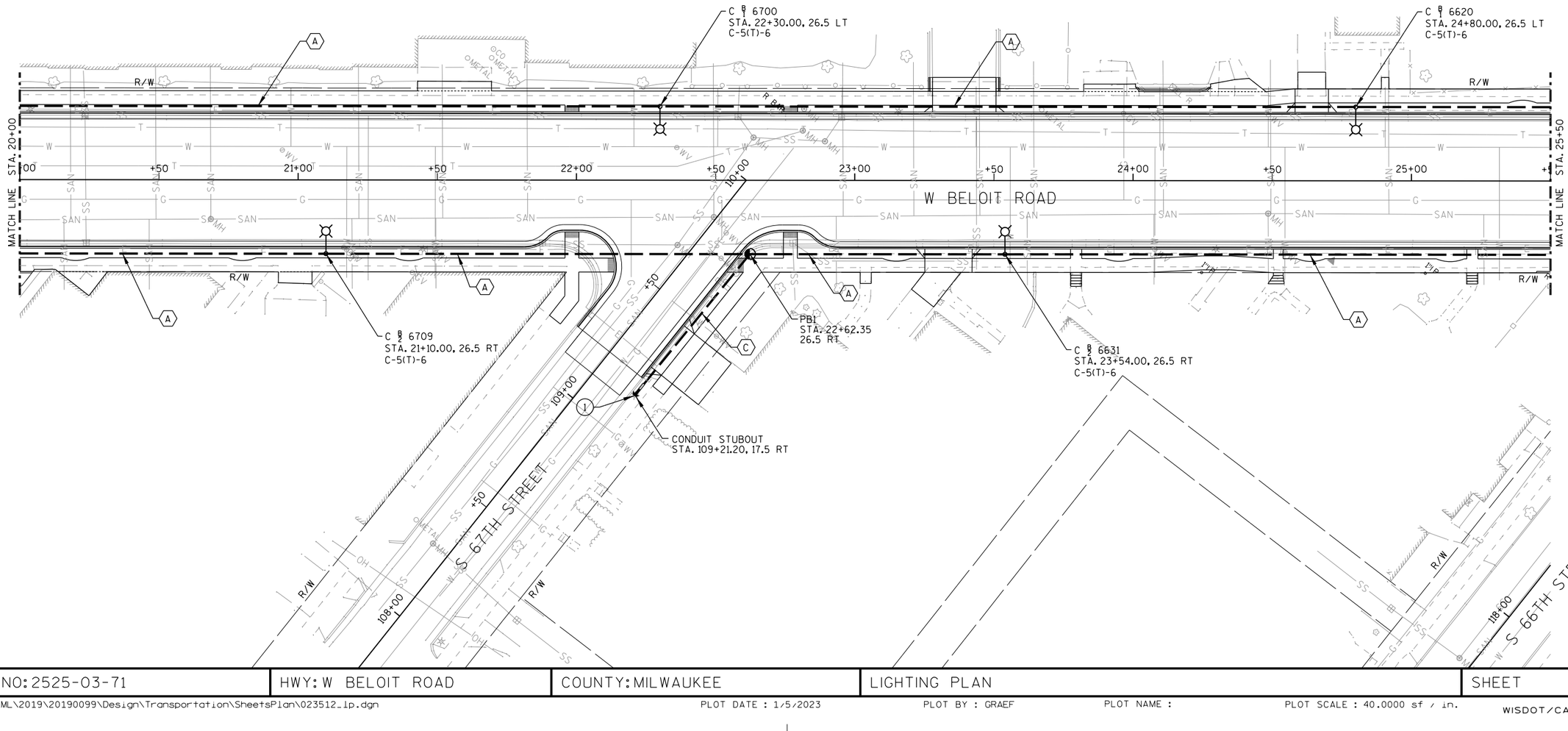
CABLE AND CONDUIT LEGEND

(A) 2 #6 AWG AND 1 #6 GROUND IN 2" CONDUIT

(B) 2 #6 AND 1 #6 GROUND IN EXISTING CONDUIT.

KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN - FOR INFORMATION ONLY.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING PLAN	SHEET 112 E

2

2

C ℄ 2193
STA. 221+16.00, 18.0 LT
C-5(T)-6

S 66TH STREET

CONDUIT STUBOUT
STA. 179+49.80, 17.40 LT

C ℄ 6603
STA. 179+68.24, 18.0 RT
C-5(T)-6

PB5
STA. 221+04.65
17.5 RT

LCC B
STA. 27+30.00, 37.0' LT

4 #6 AND 1 #6 GROUND
IN 2" CONDUIT

4 #6 & 1 #6
GROUND IN
2" CONDUIT

PB4
STA. 26+52.00
26.9 LT

PB6
STA. 27+21
26.9 LT

C ℄ 6530
STA. 27+30.00, 26.5 LT
C-5(T)-6

CONDUIT STUBOUT
231+05.07, 21.50 LT

CONTRACTOR TO STAKE
STUBOUT LOCATION

C ℄ 6510
STA. 29+75.00, 26.5 LT
C-5(T)-6

MATCH LINE STA. 25+50

MATCH LINE STA. 31+50

C ℄ 6603
STA. 25+94.00, 26.5 RT
C-5(T)-6

C ℄ 6505
STA. 28+45.00, 26.5 RT
C-5(T)-6

C ℄ 6433
STA. 30+95.00, 26.5 RT
C-5(T)-6

PB2
STA. 25+98.50
27.1 RT

PB3
STA. 27+30.00
26.5 RT

CONDUIT STUBOUT
TO EXISTING LIGHT POLE
STA. 118+96 LT

S 65TH STREET

W GRANT STREET

N

LIGHTING PLAN LEGEND

- MUNICIPAL LIGHT POLE WITH SINGLE ARM AND LUMINAIRE. PROVIDE NEW CONCRETE BASE TYPE 5.
- EXISTING MUNI. POLE, ARM, AND LUMINAIRE TO REMAIN.
- LIGHTING CONTROL CABINET
- PULL BOX (24" X 36")
- CONDUIT (SEE CABLE AND CONDUIT LEGEND)
- CONDUIT STUBOUT

C ℄ XXXX
STA. XX+XX.XX, XX.X LT = LOCATION (CENTER OF POLE)
C-5(T)-6

- LIGHTING AREA
- CONTROL CABINET/BREAKER NUMBER
- POLE NUMBER
- LUMINAIRE ARM LENGTH
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION

CABLE AND CONDUIT LEGEND

(A) 2 #6 AWG AND 1 #6 GROUND IN 2" CONDUIT

(B) EXISTING STREET LIGHTING CIRCUIT C-3 SHALL BE EXTENDED ALONG BELOIT RD. PROVIDE PULL BOXES AND 2" EMPTY CONDUIT WITH PULL STRING. CABLING TO BE PROVIDED BY CITY.

(C) INSTALL 2" EMPTY CONDUIT WITH PULL STRING AND END CAP. CABLING TO BE PROVIDED BY CITY.

(D) 2 #6 AND 1 #6 GROUND IN EXISTING CONDUIT.

KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN - FOR INFORMATION ONLY.

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING PLAN	SHEET 113	E

LIGHTING PLAN LEGEND

- MUNICIPAL LIGHT POLE WITH SINGLE ARM AND LUMINAIRE. PROVIDE NEW CONCRETE BASE TYPE 5.
- EXISTING MUNI. POLE, ARM, AND LUMINAIRE TO REMAIN.
- LIGHTING CONTROL CABINET
- PULL BOX (24" X 36")
- CONDUIT (SEE CABLE AND CONDUIT LEGEND)
- CONDUIT STUBOUT

C B XXXX
STA. XX+XX.XX, XX.X LT = LOCATION (CENTER OF POLE)
C-5(T)-6

- LIGHTING AREA
- CONTROL CABINET/BREAKER NUMBER
- POLE NUMBER
- LUMINAIRE ARM LENGTH
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION

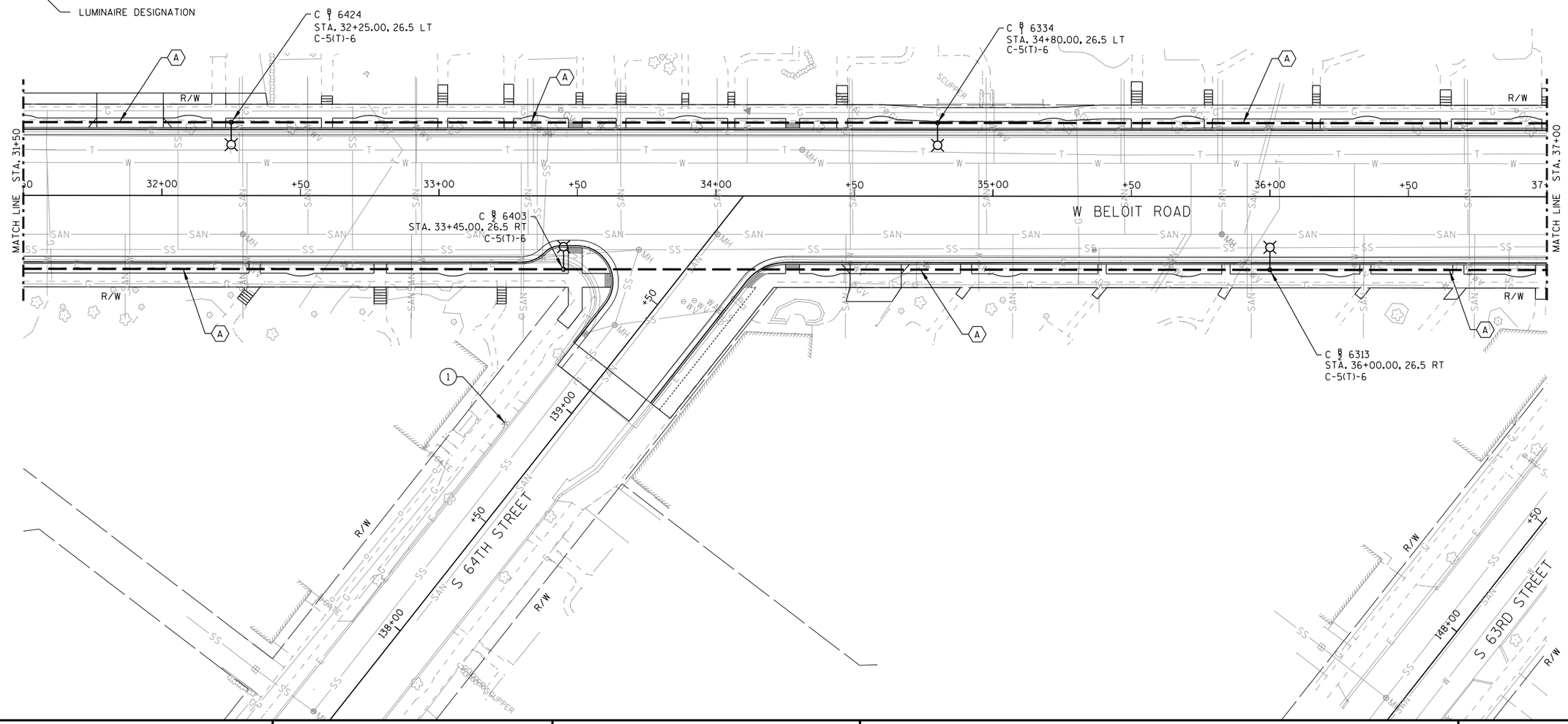
CABLE AND CONDUIT LEGEND

(A) 2 #6 AWG AND 1 #6 GROUND IN 2" CONDUIT

(B) 2 #6 AND 1 #6 GROUND IN EXISTING CONDUIT.

KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN - FOR INFORMATION ONLY.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING PLAN	SHEET 114	E

2

LIGHTING PLAN LEGEND

- MUNICIPAL LIGHT POLE WITH SINGLE ARM AND LUMINAIRE. PROVIDE NEW CONCRETE BASE TYPE 5.
- EXISTING MUNI. POLE, ARM, AND LUMINAIRE TO REMAIN.
- LIGHTING CONTROL CABINET
- PULL BOX (24" X 36")
- CONDUIT (SEE CABLE AND CONDUIT LEGEND)
- CONDUIT STUBOUT

C ℄ XXXX
STA. XX+XX.XX, XX.X LT = LOCATION (CENTER OF POLE)
C-5(T)-6

- LIGHTING AREA
- CONTROL CABINET/BREAKER NUMBER
- POLE NUMBER
- LUMINAIRE ARM LENGTH
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION

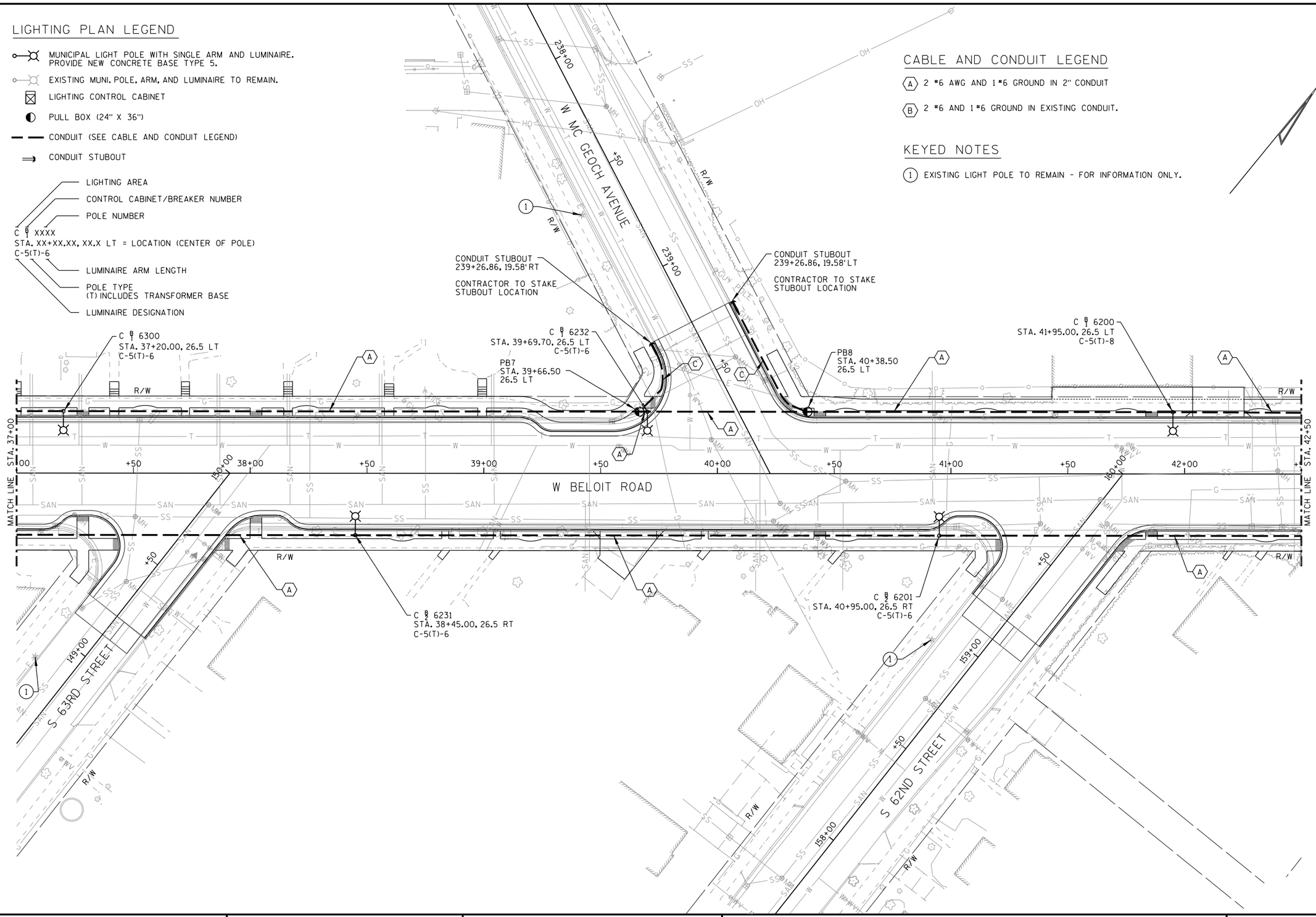
CABLE AND CONDUIT LEGEND

(A) 2 #6 AWG AND 1 #6 GROUND IN 2" CONDUIT

(B) 2 #6 AND 1 #6 GROUND IN EXISTING CONDUIT.

KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN - FOR INFORMATION ONLY.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING PLAN	SHEET 115	E

LIGHTING PLAN LEGEND

- MUNICIPAL LIGHT POLE WITH SINGLE ARM AND LUMINAIRE. PROVIDE NEW CONCRETE BASE TYPE 5.
- EXISTING MUNI. POLE, ARM, AND LUMINAIRE TO REMAIN.
- LIGHTING CONTROL CABINET
- PULL BOX (24" X 36")
- CONDUIT (SEE CABLE AND CONDUIT LEGEND)
- CONDUIT STUBOUT

C B XXXX
STA. XX+XX.XX, XX.X LT = LOCATION (CENTER OF POLE)
C-5(T)-6

- LIGHTING AREA
- CONTROL CABINET/BREAKER NUMBER
- POLE NUMBER
- LUMINAIRE ARM LENGTH
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION

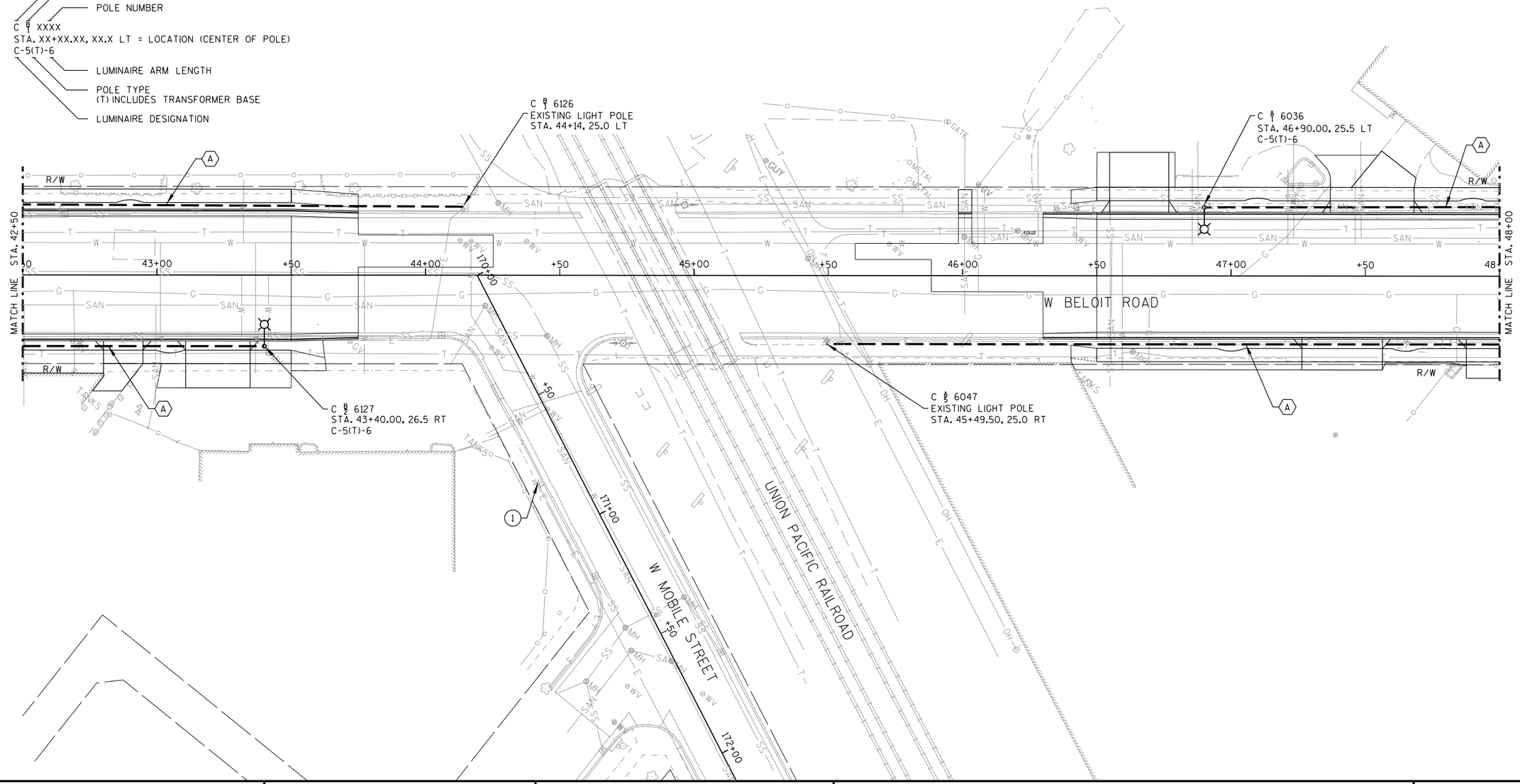
CABLE AND CONDUIT LEGEND

(A) 2 #6 AWG AND 1 #6 GROUND IN 2" CONDUIT

(B) 2 #6 AND 1 #6 GROUND IN EXISTING CONDUIT.

KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN - FOR INFORMATION ONLY.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING PLAN	SHEET 116	E

2

CABLE AND CONDUIT LEGEND

(A) 2 #6 AWG AND 1 #6 GROUND IN 2" CONDUIT

(B) 2 #6 AND 1 #6 GROUND IN EXISTING CONDUIT.

KEYED NOTES

(1) EXISTING LIGHT POLE TO REMAIN - FOR INFORMATION ONLY.

EXISTING POLE #CA01955

S 60TH STREET

C & 6020
STA. 49+35.00, 26.0 LT
C-5(T)-8

INTERCEPT & CONNECT TO EXISTING CONDUIT. INSTALL NEW CONDUCTORS IN EXISTING CONDUIT TO EXISTING POLE #CA01955. (APPROX. 236 FT)

EXISTING SIGNAL POLE

W BELOIT ROAD

MATCH LINE STA. 48+00

END RECONSTRUCTION
STA. 49+45.00

EXISTING SIGNAL POLE

R/W

C & 6023
STA. 48+35.00, 26.0 RT
C-5(T)-8

INTERCEPT & CONNECT TO EXISTING CONDUIT. INSTALL NEW CONDUCTORS IN EXISTING CONDUIT TO EXISTING POLE #CA02031. (APPROX. 300 FT)

EXISTING TRAFFIC SIGNAL CABINET

TO EXISTING POLE #CA02031

S 60TH STREET

W ROGERS STREET

LIGHTING PLAN LEGEND

MUNICIPAL LIGHT POLE WITH SINGLE ARM AND LUMINAIRE. PROVIDE NEW CONCRETE BASE TYPE 5.

EXISTING MUNI. POLE, ARM, AND LUMINAIRE TO REMAIN.

LIGHTING CONTROL CABINET

PULL BOX (24" X 36")

CONDUIT (SEE CABLE AND CONDUIT LEGEND)

CONDUIT STUBOUT

C & XXXX
STA. XX+XX.XX, XX.X LT = LOCATION (CENTER OF POLE)
C-5(T)-6

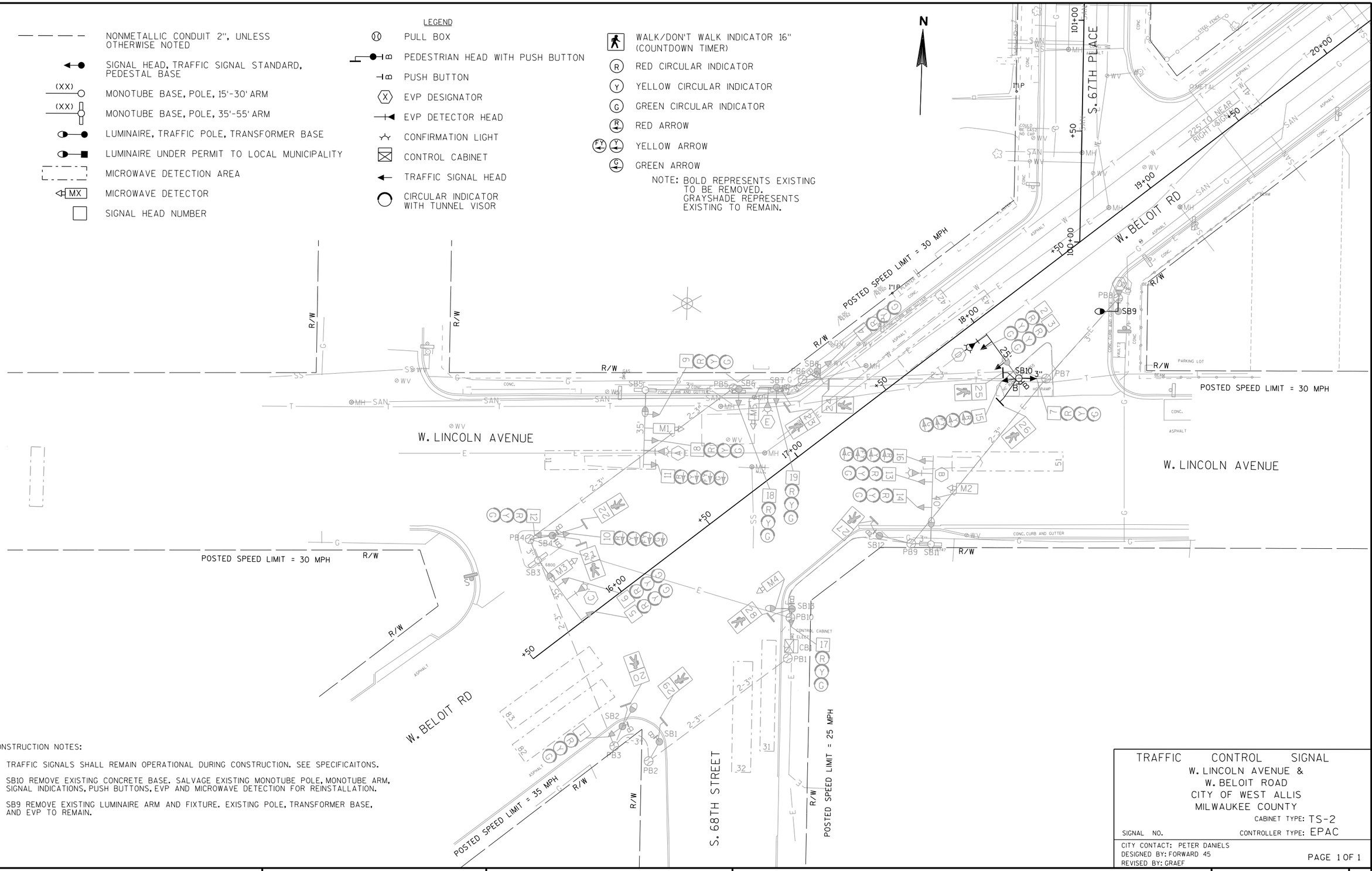
- LIGHTING AREA
- CONTROL CABINET/BREAKER NUMBER
- POLE NUMBER
- LUMINAIRE ARM LENGTH
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	LIGHTING PLAN	SHEET 117	E

LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- MICROWAVE DETECTION AREA
- MX MICROWAVE DETECTOR
- SIGNAL HEAD NUMBER
- PULL BOX
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- B PUSH BUTTON
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- CONTROL CABINET
- TRAFFIC SIGNAL HEAD
- CIRCULAR INDICATOR WITH TUNNEL VISOR
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY Y YELLOW ARROW
- G GREEN ARROW

NOTE: BOLD REPRESENTS EXISTING TO BE REMOVED. GRAYSHADE REPRESENTS EXISTING TO REMAIN.



CONSTRUCTION NOTES:

1. TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. SEE SPECIFICAITONS.
2. SB10 REMOVE EXISTING CONCRETE BASE. SALVAGE EXISTING MONOTUBE POLE, MONOTUBE ARM, SIGNAL INDICATIONS, PUSH BUTTONS, EVP AND MICROWAVE DETECTION FOR REINSTALLATION.
3. SB9 REMOVE EXISTING LUMINAIRE ARM AND FIXTURE. EXISTING POLE, TRANSFORMER BASE, AND EVP TO REMAIN.

TRAFFIC CONTROL SIGNAL
W. LINCOLN AVENUE &
W. BELOIT ROAD
CITY OF WEST ALLIS
MILWAUKEE COUNTY

CABINET TYPE: TS-2
SIGNAL NO. CONTROLLER TYPE: EPAC

CITY CONTACT: PETER DANIELS
DESIGNED BY: FORWARD 45
REVISED BY: GRAEF

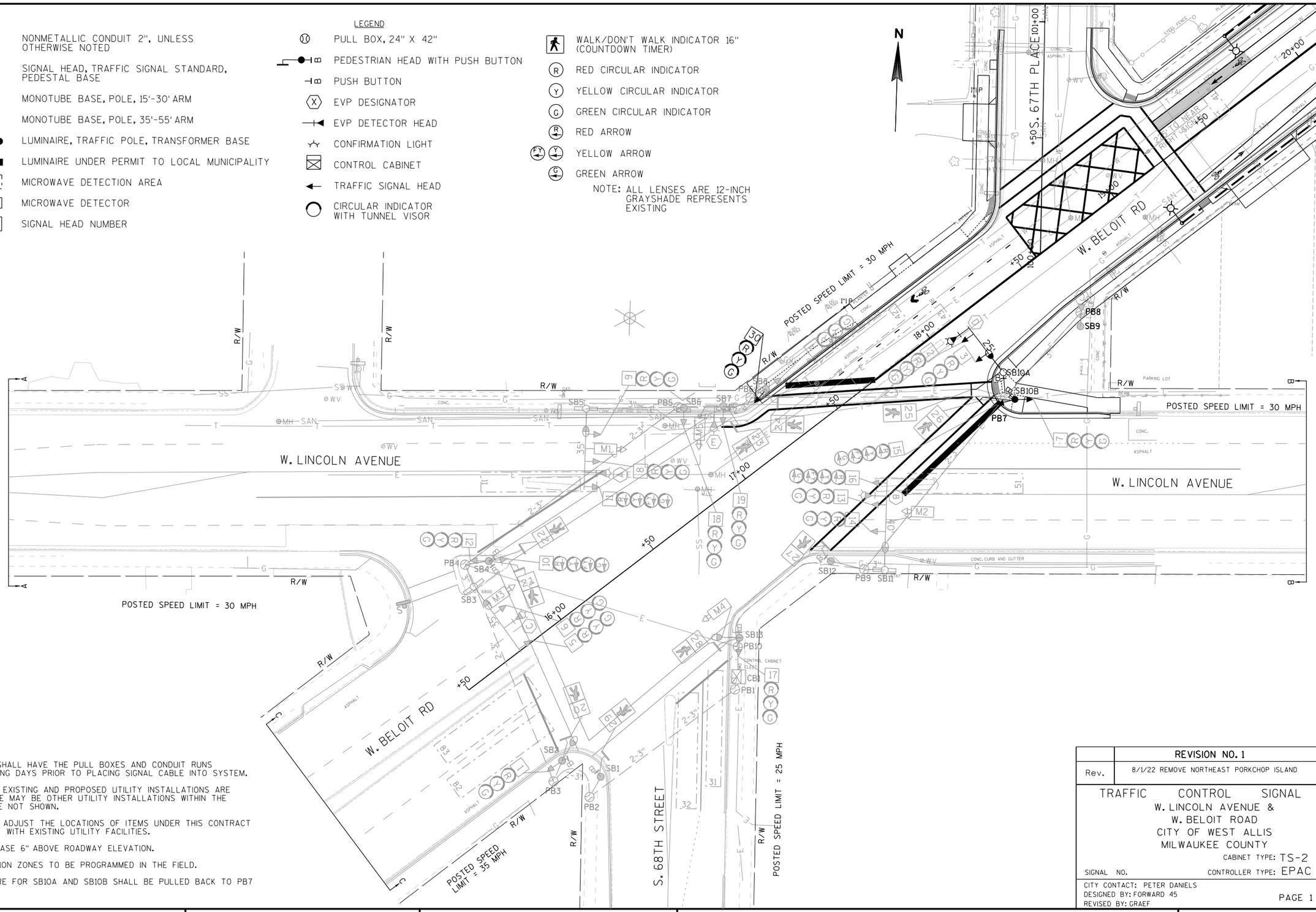
PAGE 1 OF 1

PROJECT NO: 2525-03-71	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 118	E

LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- MICROWAVE DETECTION AREA
- MX MICROWAVE DETECTOR
- SIGNAL HEAD NUMBER
- PULL BOX, 24" X 42"
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- B PUSH BUTTON
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- CONTROL CABINET
- TRAFFIC SIGNAL HEAD
- CIRCULAR INDICATOR WITH TUNNEL VISOR
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. MICROWAVE DETECTION ZONES TO BE PROGRAMMED IN THE FIELD.
6. TRAFFIC SIGNAL WIRE FOR SB10A AND SB10B SHALL BE PULLED BACK TO PB7 TO BE REUSED.

	REVISION NO. 1
Rev.	8/1/22 REMOVE NORTHEAST PORKCHOP ISLAND

TRAFFIC CONTROL SIGNAL
W. LINCOLN AVENUE &
W. BELOIT ROAD
CITY OF WEST ALLIS
MILWAUKEE COUNTY

CABINET TYPE: TS-2
SIGNAL NO. CONTROLLER TYPE: EPAC

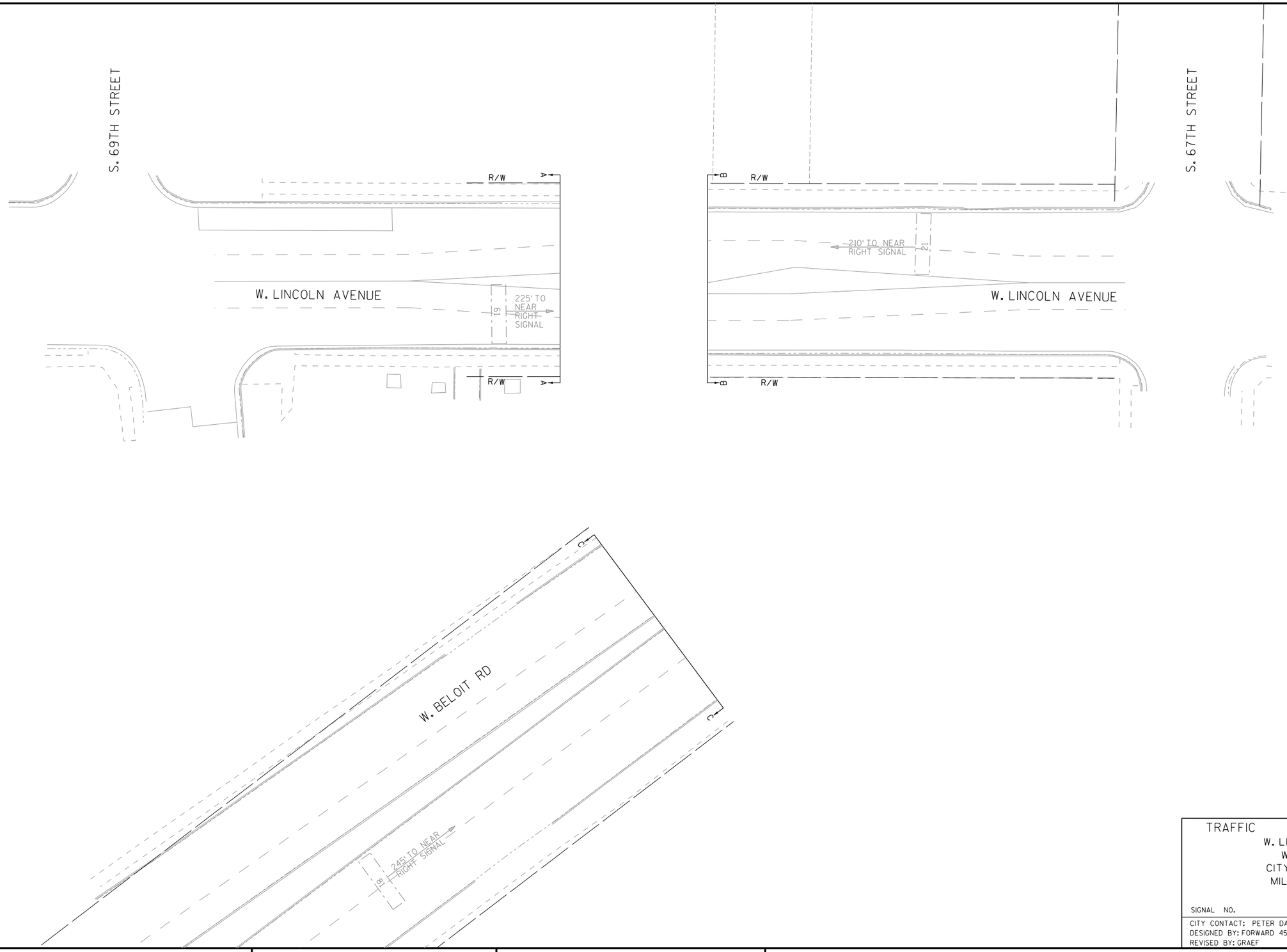
CITY CONTACT: PETER DANIELS
DESIGNED BY: FORWARD 45
REVISED BY: GRAEF

PAGE 1 OF 3

PROJECT NO: 2525-03-71	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 119	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\01_Lincoln Ave\024021_sp_Lincoln.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 42



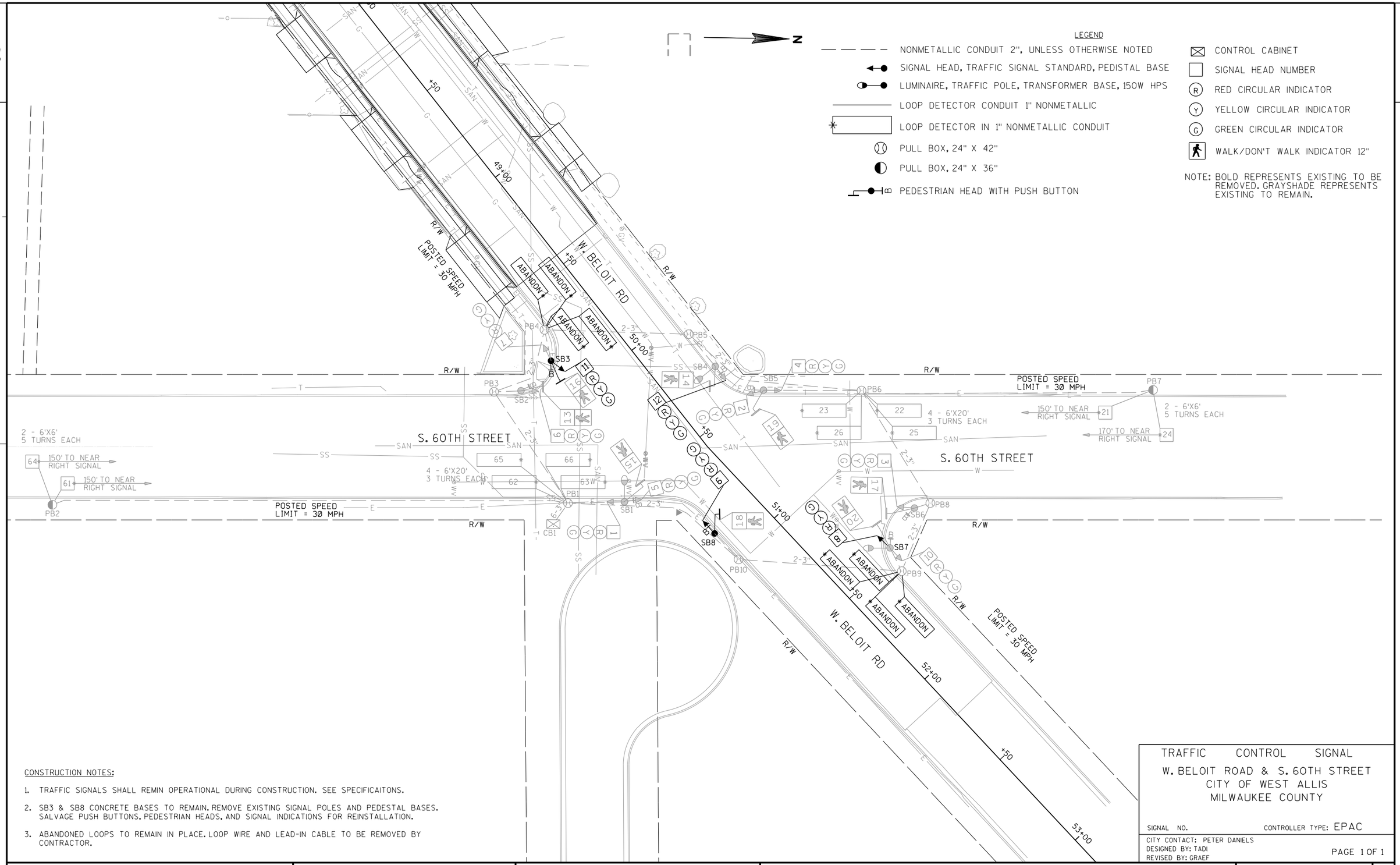
TRAFFIC CONTROL SIGNAL
W. LINCOLN AVENUE &
W. BELOIT ROAD
CITY OF WEST ALLIS
MILWAUKEE COUNTY

CABINET TYPE: TS-2
SIGNAL NO. CONTROLLER TYPE: EPAC

CITY CONTACT: PETER DANIELS
DESIGNED BY: FORWARD 45
REVISED BY: GRAEF

PROJECT NO: 2525-03-71	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 120 E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\01_Lincoln Ave\024021_sp_Lincoln.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.
WISDOT/CADDS SHEET 42



CONSTRUCTION NOTES:

1. TRAFFIC SIGNALS SHALL REMIN OPERATIONAL DURING CONSTRUCTION. SEE SPECIFICAITONS.
2. SB3 & SB8 CONCRETE BASES TO REMAIN. REMOVE EXISTING SIGNAL POLES AND PEDESTAL BASES. SALVAGE PUSH BUTTONS, PEDESTRIAN HEADS, AND SIGNAL INDICATIONS FOR REINSTALLATION.
3. ABANDONED LOOPS TO REMAIN IN PLACE. LOOP WIRE AND LEAD-IN CABLE TO BE REMOVED BY CONTRACTOR.

TRAFFIC CONTROL SIGNAL

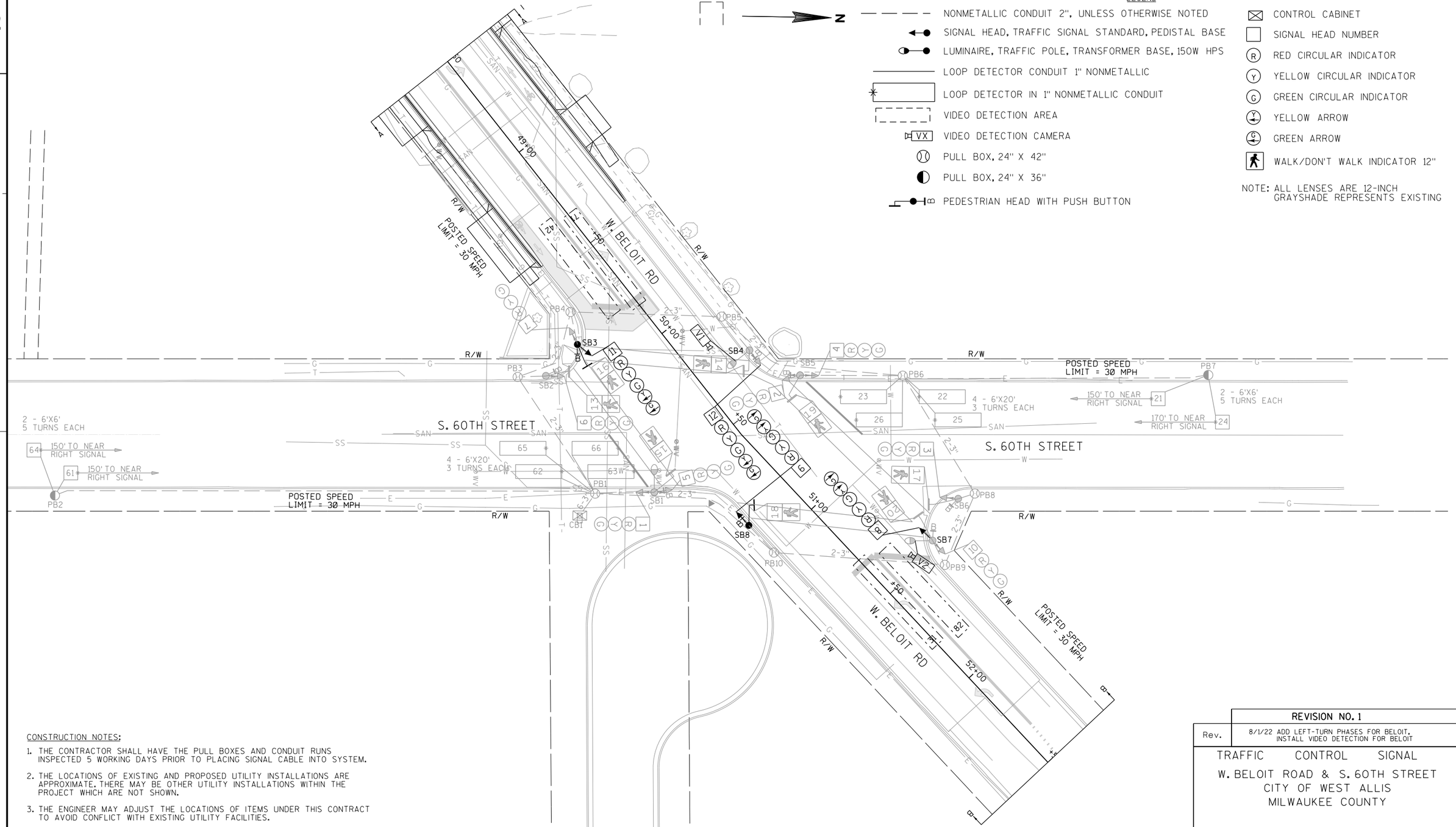
W. BELOIT ROAD & S. 60TH STREET
CITY OF WEST ALLIS
MILWAUKEE COUNTY

SIGNAL NO. CONTROLLER TYPE: EPAC

CITY CONTACT: PETER DANIELS
DESIGNED BY: TADI
REVISED BY: GRAEF

PAGE 1 OF 1

PROJECT NO: 2525-03-71	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 121	E



CONSTRUCTION NOTES;

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. VIDEO DETECTION ZONES TO BE PROGRAMMED IN THE FIELD.

REVISION NO. 1	
Rev.	8/1/22 ADD LEFT-TURN PHASES FOR BELOIT, INSTALL VIDEO DETECTION FOR BELOIT

TRAFFIC CONTROL SIGNAL

W. BELOIT ROAD & S. 60TH STREET
CITY OF WEST ALLIS
MILWAUKEE COUNTY

SIGNAL NO. CONTROLLER TYPE: EPAC

CITY CONTACT: PETER DANIELS
DESIGNED BY: TADI
REVISED BY: GRAEF

PAGE 1 OF 3

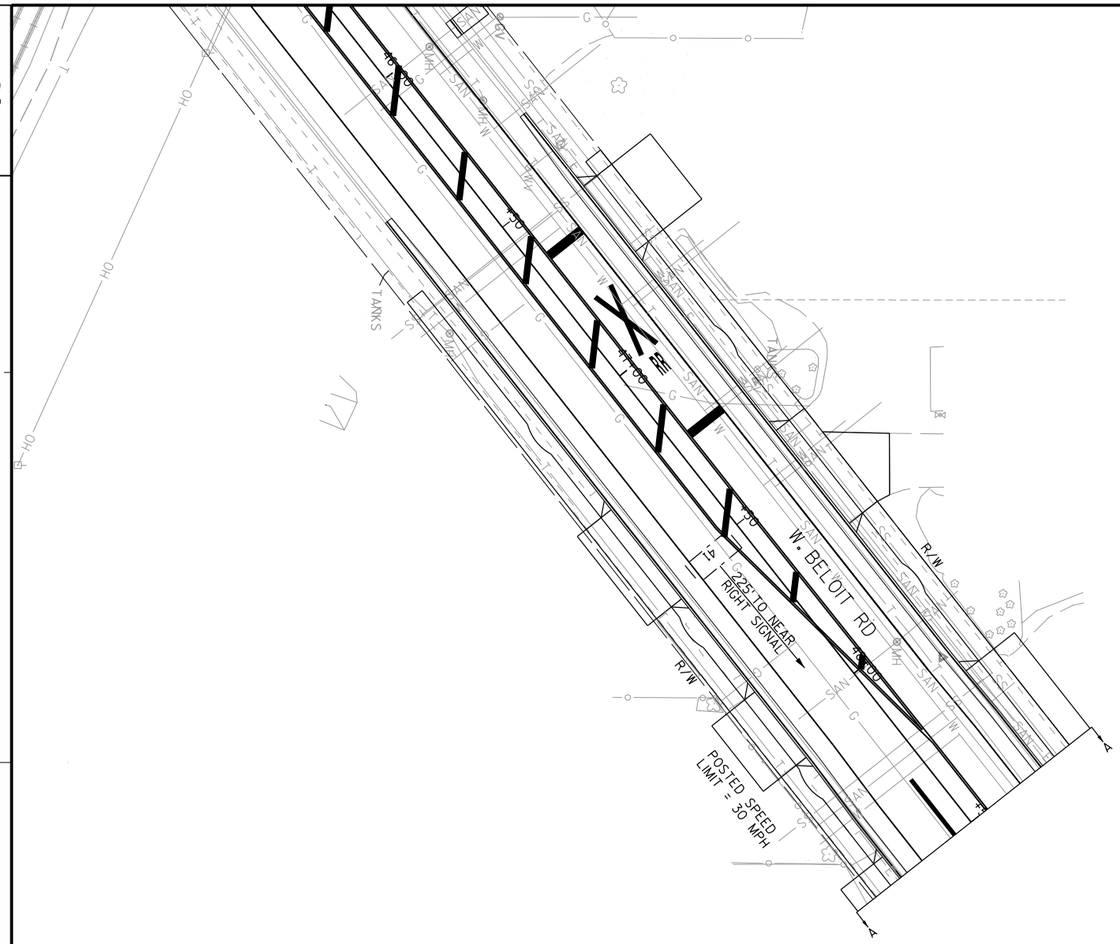
PROJECT NO: 2525-03-71	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 122 E

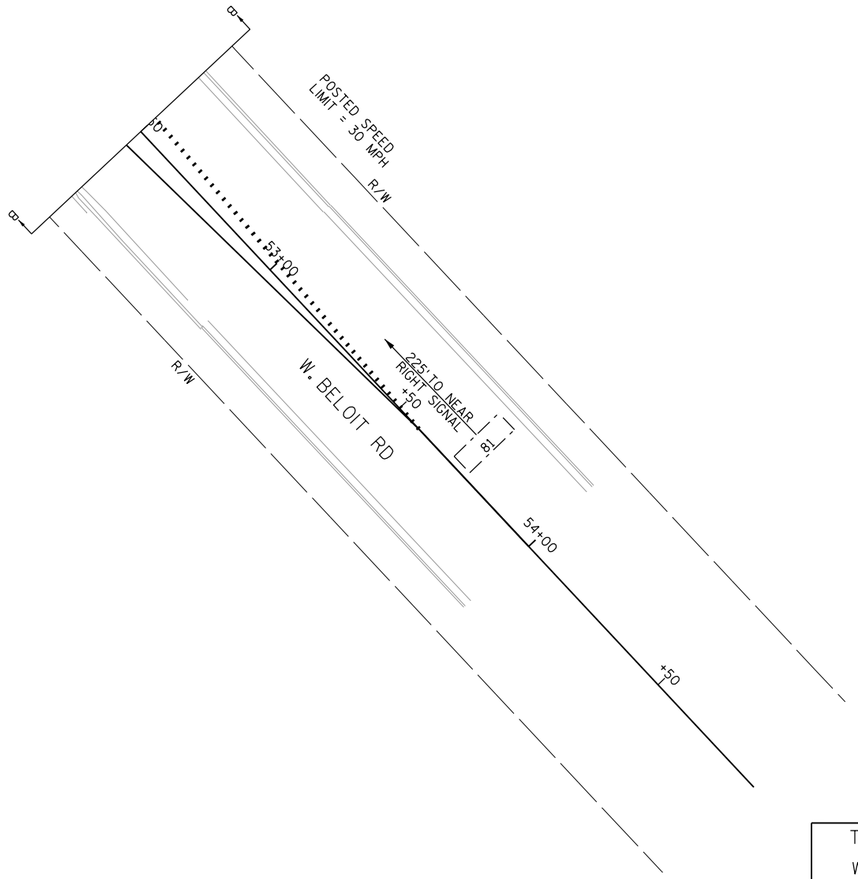
FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\02_60th Street\024021_sp_60th.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 42

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N





TRAFFIC CONTROL SIGNAL

W. BELOIT ROAD & S. 60TH STREET
CITY OF WEST ALLIS
MILWAUKEE COUNTY

SIGNAL NO. CONTROLLER TYPE: EPAC

CITY CONTACT: PETER DANIELS
DESIGNED BY: TADI
REVISED BY: GRAEF

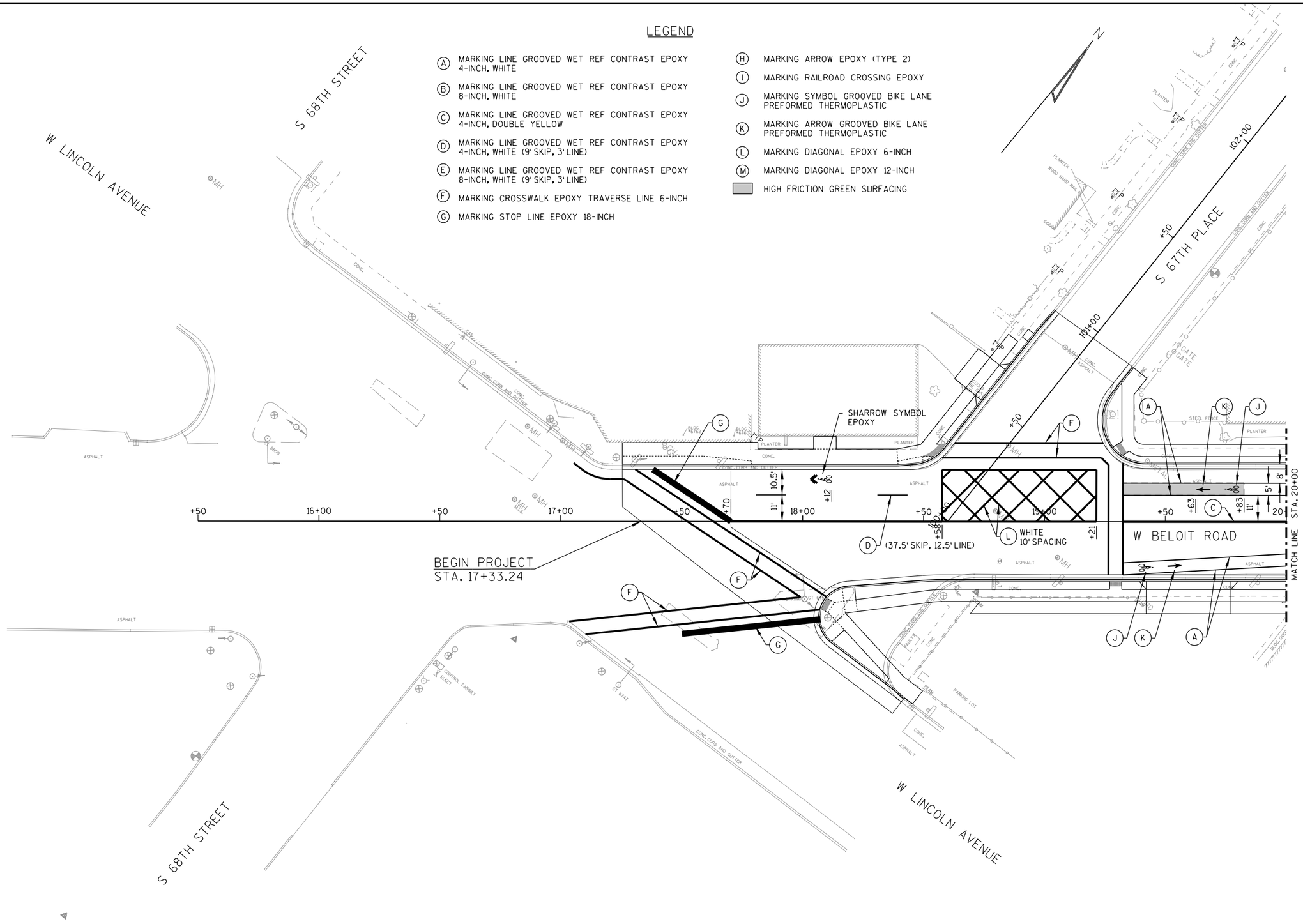
PAGE 2 OF 3

PROJECT NO: 2525-03-71	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 123	E

2

LEGEND

- (A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, WHITE
- (B) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH, WHITE
- (C) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, DOUBLE YELLOW
- (D) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, WHITE (9' SKIP, 3' LINE)
- (E) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH, WHITE (9' SKIP, 3' LINE)
- (F) MARKING CROSSWALK EPOXY TRAVERSE LINE 6-INCH
- (G) MARKING STOP LINE EPOXY 18-INCH
- (H) MARKING ARROW EPOXY (TYPE 2)
- (I) MARKING RAILROAD CROSSING EPOXY
- (J) MARKING SYMBOL GROOVED BIKE LANE PREFORMED THERMOPLASTIC
- (K) MARKING ARROW GROOVED BIKE LANE PREFORMED THERMOPLASTIC
- (L) MARKING DIAGONAL EPOXY 6-INCH
- (M) MARKING DIAGONAL EPOXY 12-INCH
- HIGH FRICTION GREEN SURFACING

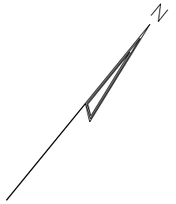


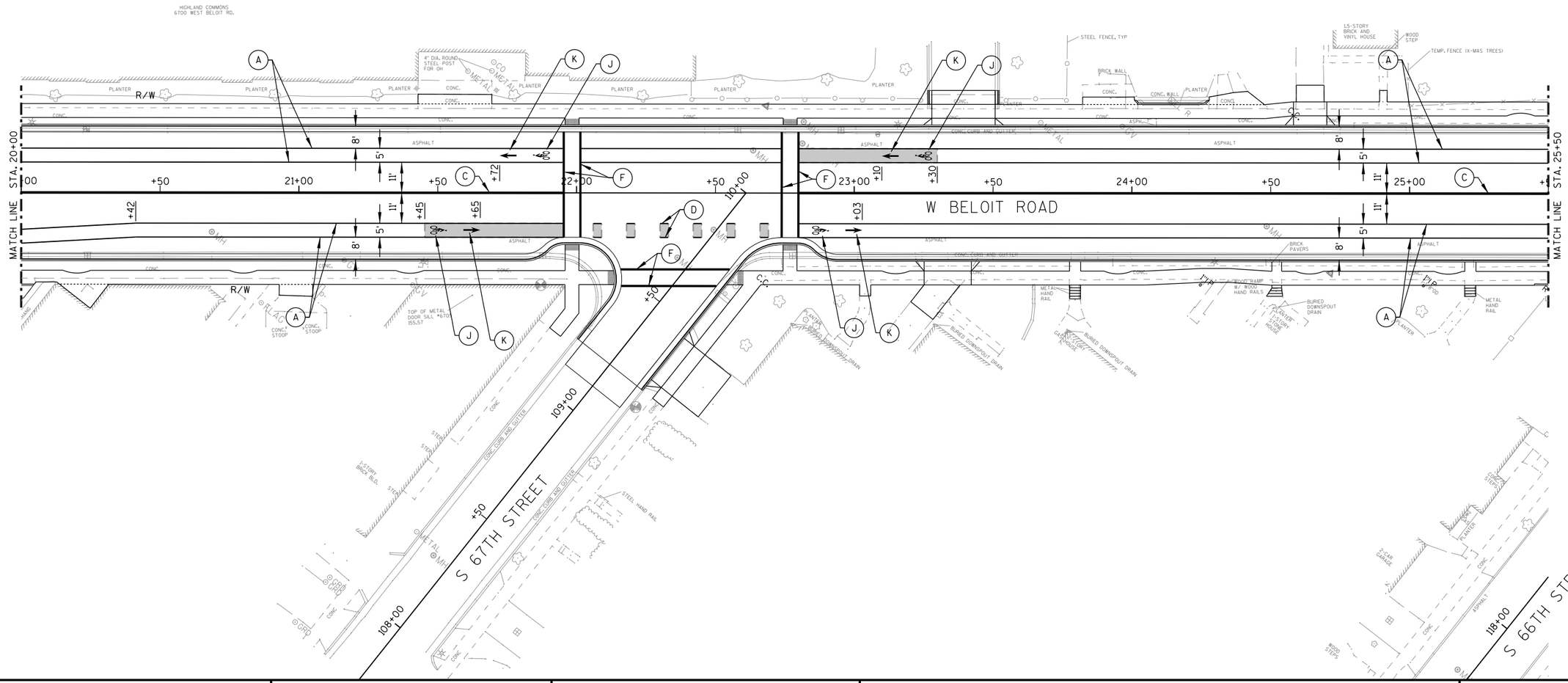
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 124	E

2

LEGEND

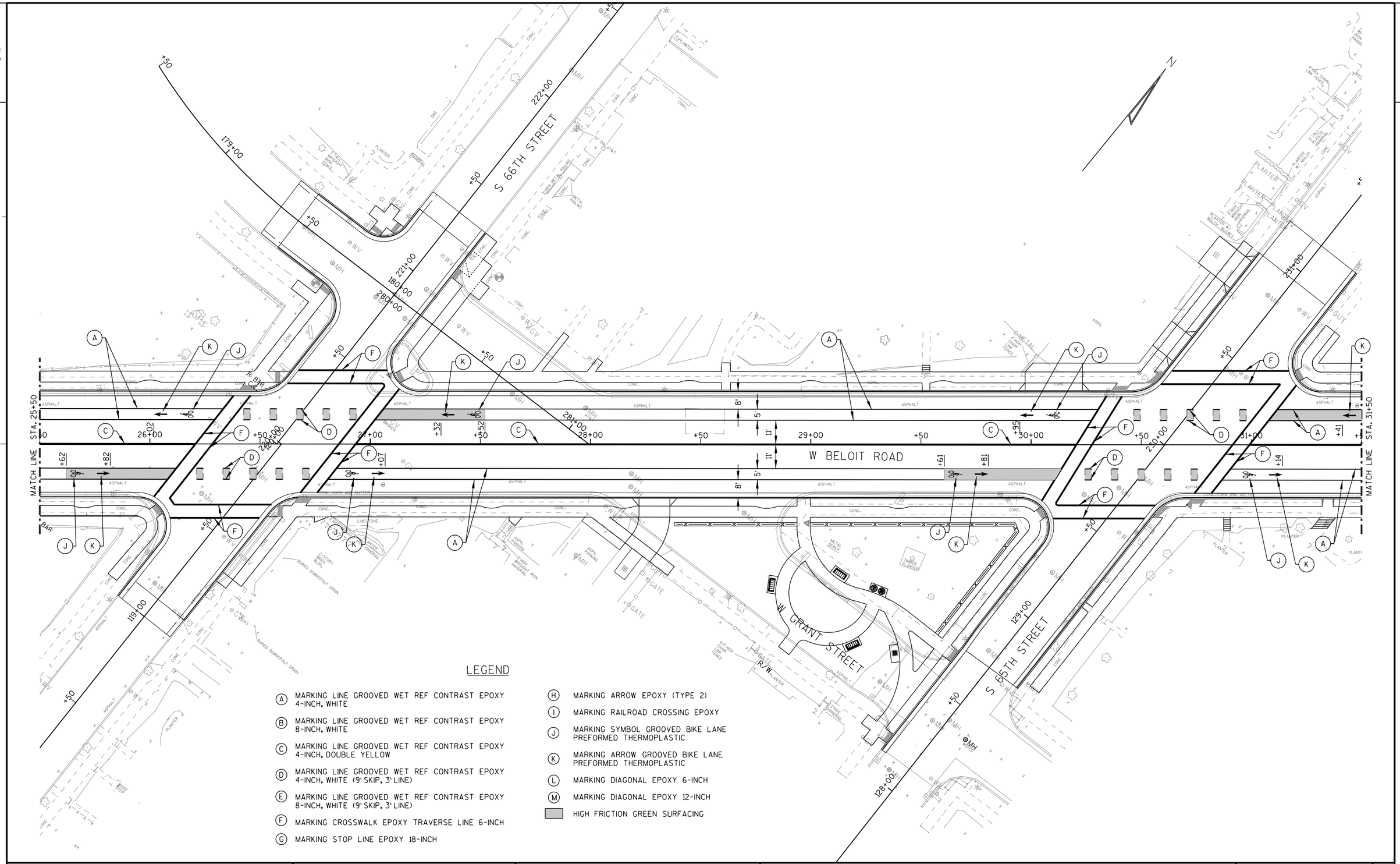
- (A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, WHITE
- (B) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH, WHITE
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- (M) MARKING DIAGONAL EPOXY 12-INCH
- HIGH FRICTION GREEN SURFACING





PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 125	E

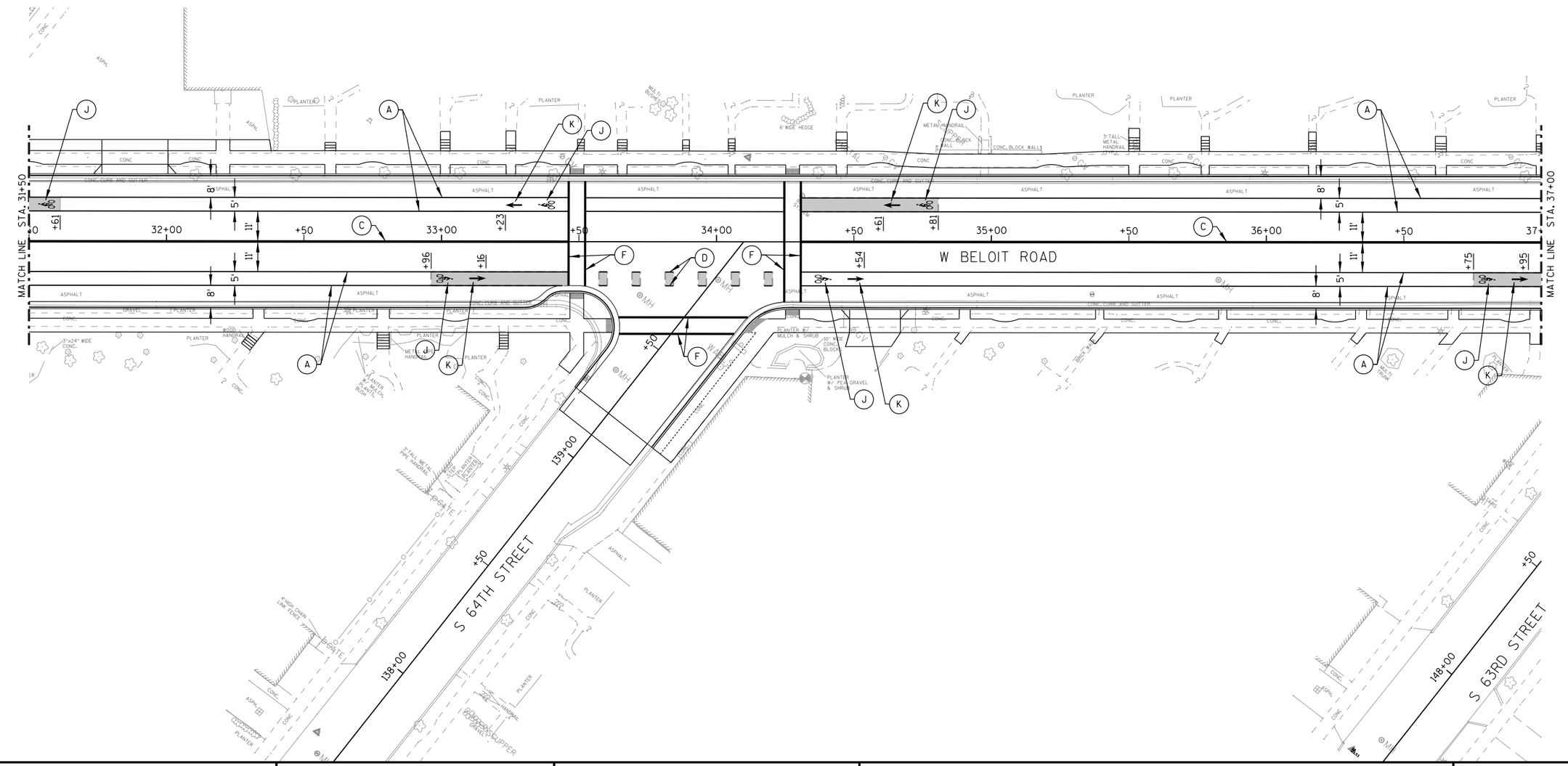
2


S 66TH STREET
W BELOIT ROAD
W GRANT STREET
S 65TH STREET
MATCH LINE STA. 25+50
MATCH LINE STA. 31+50
179+00
180+00
221+00
222+00
280+00
281+00
119+00
128+00
129+00
ASPHALT
CONC.
PLANTER
R/W
GATE
BURIED DOWNSPOUT DRAIN
METAL BENCH
TIMBER PLANTER
LIMESTONE
ASPH. PAVING
SYNTHETIC TURF
4.5' HIGH CHAIN LINK FENCE
4' HIGH ORNAMENTAL IRON HANDRAIL
STEEL BRIDGE RAILING
CONCRETE BRIDGE RAILING
CONC. CURB AND GUTTER
LIMESTONE RETAINING WALL
STONE RETAINING WALL
BRICK RETAINING WALL
TREE GRATE
TREE
SHRUB
BOLLARD
SIGN
MH
WV
GV
SAN
CV
DI
TEL
GUY
AT&T
TRAFFIC SIGNAL CABINET
TRAFFIC SIGNAL CONTROLLER
TRAFFIC SIGNAL POLE
TRAFFIC SIGNAL MAST ARM
TRAFFIC SIGNAL HANDHOLE
TRAFFIC SIGNAL CONDUIT
TRAFFIC SIGNAL CONDUCTOR
TRAFFIC SIGNAL LOOP DETECTOR
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON
TRAFFIC SIGNAL PEDESTRIAN SIGNAL
TRAFFIC SIGNAL VEHICULAR SIGNAL
TRAFFIC SIGNAL VIDEO DETECTION CAMERA
TRAFFIC SIGNAL WIRELESS DETECTION
TRAFFIC SIGNAL EMERGENCY VEHICLE PREEMPTION
TRAFFIC SIGNAL INTERCONNECT
TRAFFIC SIGNAL SPEED DETECTION
TRAFFIC SIGNAL SPEED DISPLAY
TRAFFIC SIGNAL SPEED DISPLAY CONTROLLER
TRAFFIC SIGNAL SPEED DISPLAY POLE
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TRAFFIC SIGNAL SPEED DISPLAY SIGN

2

LEGEND

- (A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, WHITE
- (B) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH, WHITE
- (C) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, DOUBLE YELLOW
- (D) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, WHITE (9' SKIP, 3' LINE)
- (E) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH, WHITE (9' SKIP, 3' LINE)
- (F) MARKING CROSSWALK EPOXY TRAVERSE LINE 6-INCH
- (G) MARKING STOP LINE EPOXY 18-INCH
- (H) MARKING ARROW EPOXY (TYPE 2)
- (I) MARKING RAILROAD CROSSING EPOXY
- (J) MARKING SYMBOL GROOVED BIKE LANE PREFORMED THERMOPLASTIC
- (K) MARKING ARROW GROOVED BIKE LANE PREFORMED THERMOPLASTIC
- (L) MARKING DIAGONAL EPOXY 6-INCH
- (M) MARKING DIAGONAL EPOXY 12-INCH
- HIGH FRICTION GREEN SURFACING



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	PAVEMENT MARKING	SHEET 127	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\024504_pm.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

2

LEGEND

- (A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, WHITE
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- (L) MARKING DIAGONAL EPOXY 6-INCH
- (M) MARKING DIAGONAL EPOXY 12-INCH
- HIGH FRICTION GREEN SURFACING

N

W MC GEOCH AVENUE

W BELOIT ROAD

S 63RD STREET

S 62ND STREET

MATCH LINE STA. 37+00

MATCH LINE STA. 42+50

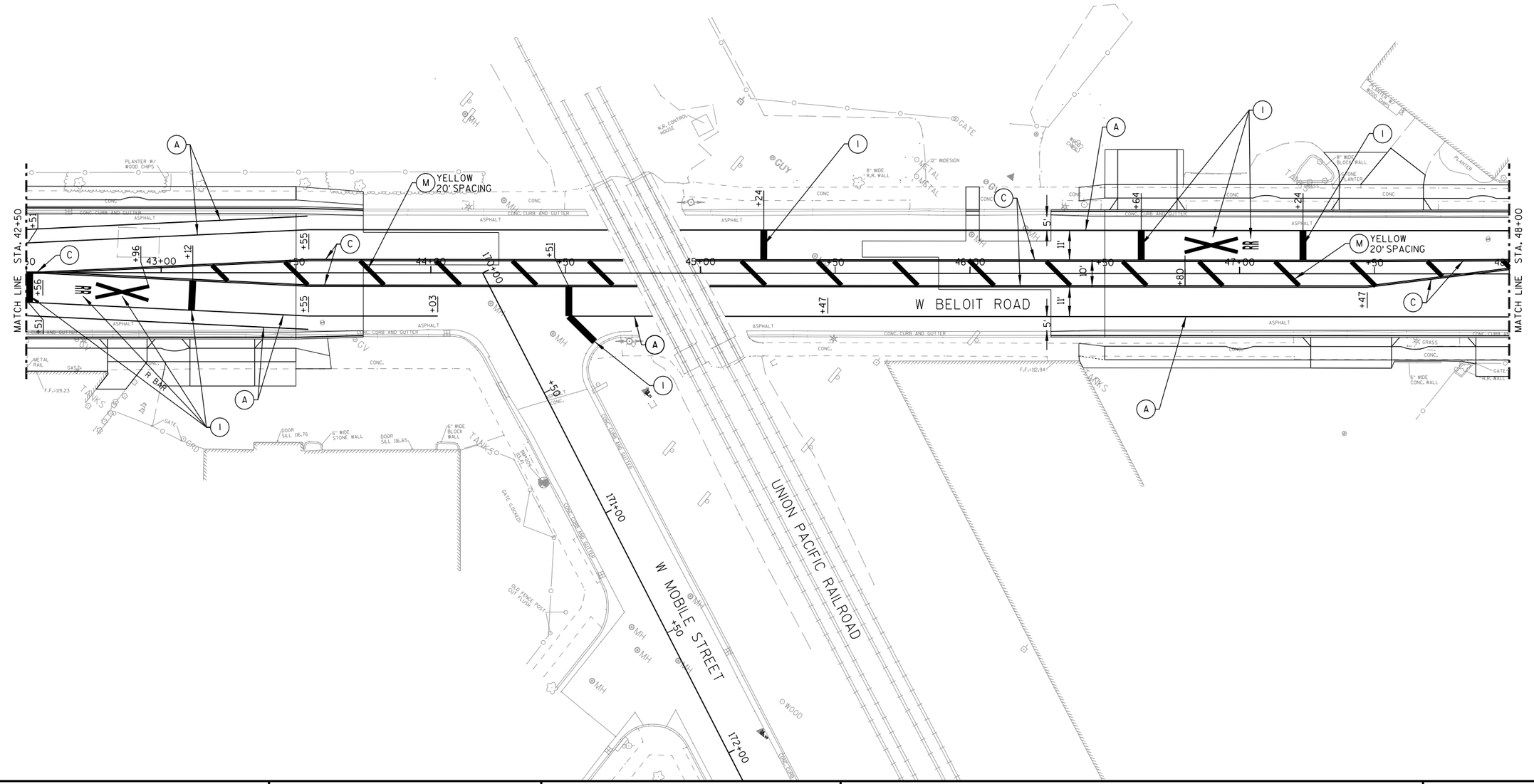
PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 128	E

LEGEND

- (A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, WHITE
- (B) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH, WHITE
- (C) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, DOUBLE YELLOW
- (D) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, WHITE (9' SKIP, 3' LINE)
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- (J) MARKING SYMBOL GROOVED BIKE LANE PREFORMED THERMOPLASTIC
- (K) MARKING ARROW GROOVED BIKE LANE PREFORMED THERMOPLASTIC
- (L) MARKING DIAGONAL EPOXY 6-INCH
- (M) MARKING DIAGONAL EPOXY 12-INCH
- HIGH FRICTION GREEN SURFACING

NOTE:

THREE MARKING STOP LINES EPOXY 24-INCH ARE INCLUDED AND INCIDENTAL TO THE PAY ITEM MARKING RAILROAD CROSSING EPOXY, AS SHOWN IN STANDARD DETAIL DRAWING "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSING".

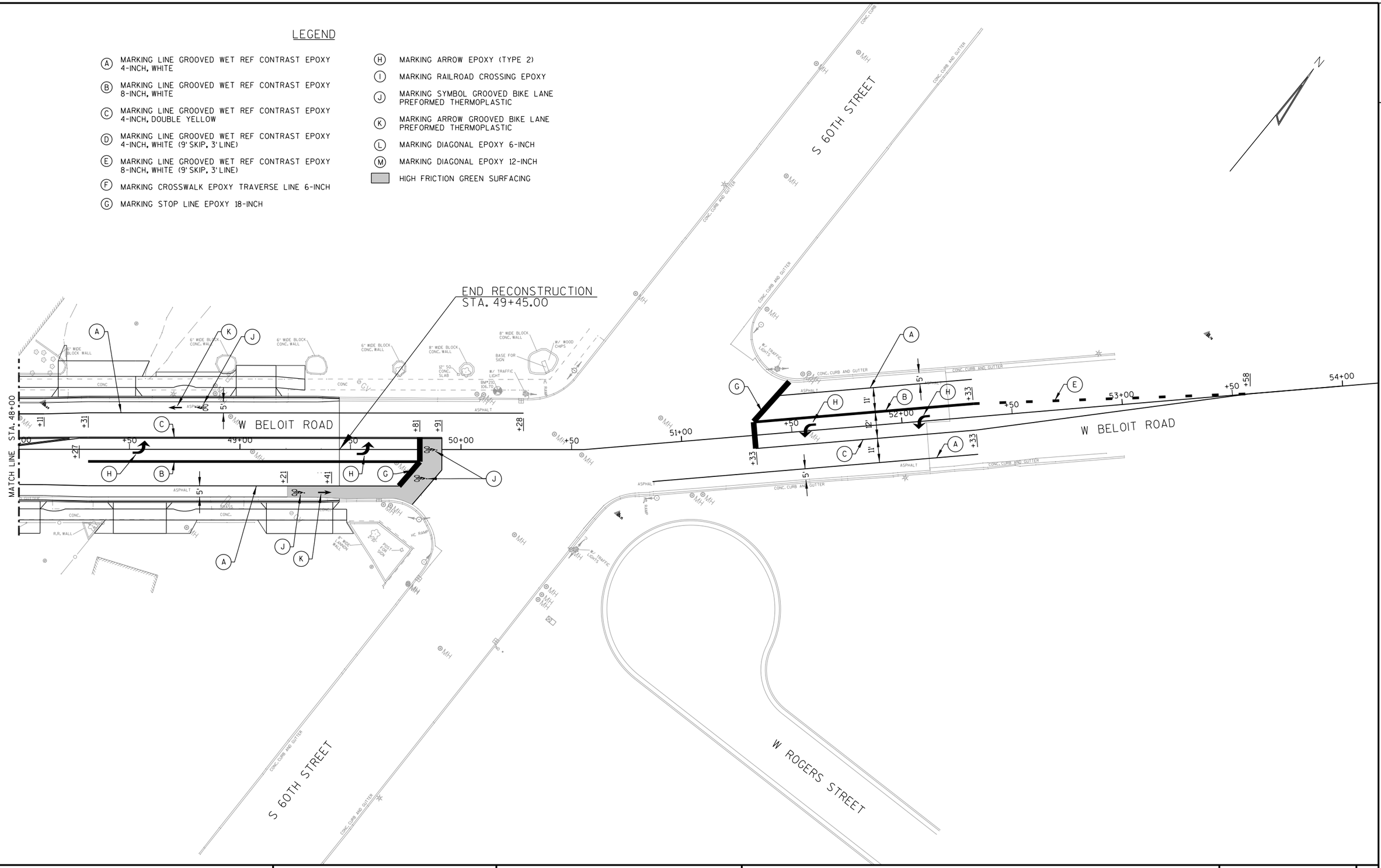


PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	PAVEMENT MARKING	SHEET 129	E

2

LEGEND

- (A) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, WHITE
- (B) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH, WHITE
- (C) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, DOUBLE YELLOW
- (D) MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH, WHITE (9' SKIP, 3' LINE)
- (E) MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH, WHITE (9' SKIP, 3' LINE)
- (F) MARKING CROSSWALK EPOXY TRAVERSE LINE 6-INCH
- (G) MARKING STOP LINE EPOXY 18-INCH
- (H) MARKING ARROW EPOXY (TYPE 2)
- (I) MARKING RAILROAD CROSSING EPOXY
- (J) MARKING SYMBOL GROOVED BIKE LANE PREFORMED THERMOPLASTIC
- (K) MARKING ARROW GROOVED BIKE LANE PREFORMED THERMOPLASTIC
- (L) MARKING DIAGONAL EPOXY 6-INCH
- (M) MARKING DIAGONAL EPOXY 12-INCH
- HIGH FRICTION GREEN SURFACING

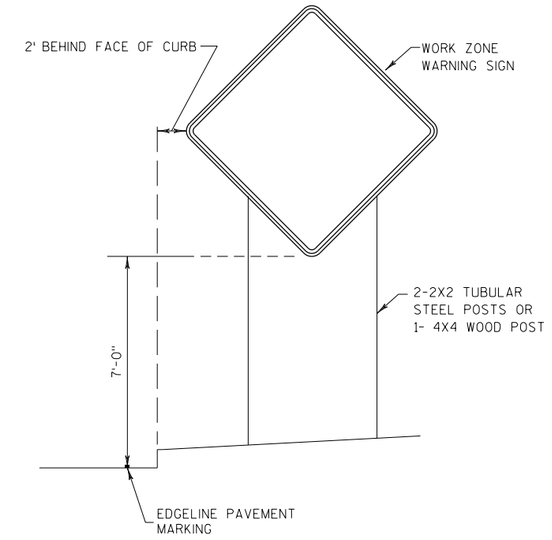


PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 130	E

2

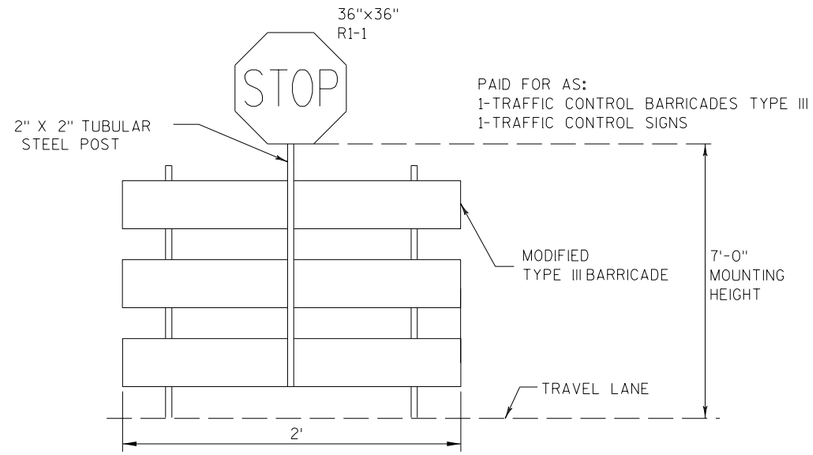
TRAFFIC CONTROL NOTES

1. MAINTAIN ACCESS FOR EMERGENCY VEHICLES AND LOCAL TRAFFIC ON NATIONAL AVENUE AT ALL TIMES.
2. THE CONTRACTOR SHALL COVER ANY SIGN CONFLICTING WITH THE TRAFFIC CONTROL IN OPERATION AS NEEDED OR AS DIRECTED BY THE ENGINEER. COVERING OF SIGNS IS INCLUDED IN "TRAFFIC CONTROL COVERING SIGNS TYPE II" ITEM.
3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SIGNS, DIRECTIONAL ARROWS, LIGHTS, TEMPORARY MARKINGS, FLAGMEN, AND SAFETY DEVICES AS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
4. DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTOR'S METHOD OR SEQUENCES OF OPERATION.
5. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
6. ALL SIGNS ARE 48" X 48" EXCEPT OTHERWISE NOTED.
7. ANY "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.
8. THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD LOCATIONS AS APPROVED BY THE ENGINEER IN THE FIELD.
9. BOTH STEADY BURN LIGHTS AND FLASHING LIGHTS SHALL BE ONE WAY WITH THE LIGHT SOURCE SHOWING TOWARDS ADJACENT APPROACHING TRAFFIC.
10. CHANNELIZING DEVICES SHALL BE DRUMS WITH ATTACHED TYPE "C" STEADY BURN LIGHT (TAPERS ONLY).
11. MAINTAIN ACCESS TO DRIVEWAYS DURING CONSTRUCTION. FOR PROPERTIES WITH MULTIPLE DRIVEWAYS, ONLY ONE DRIVEWAY CAN BE CLOSED/WORKED ON AT ANY TIME.



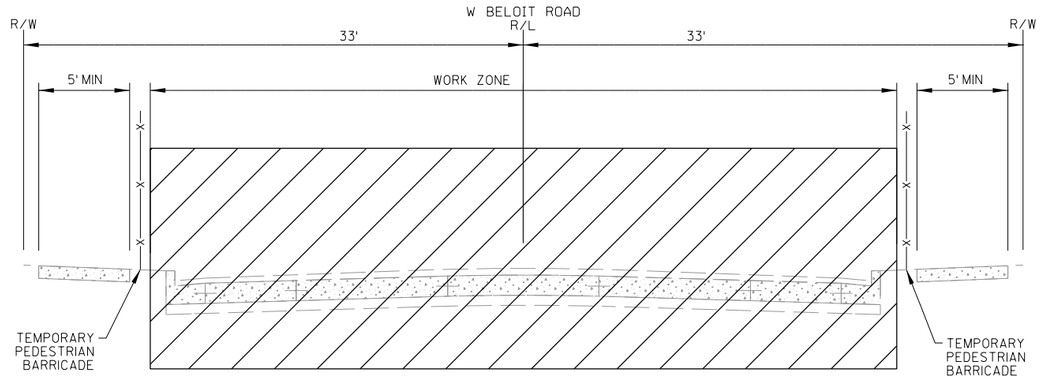
TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE



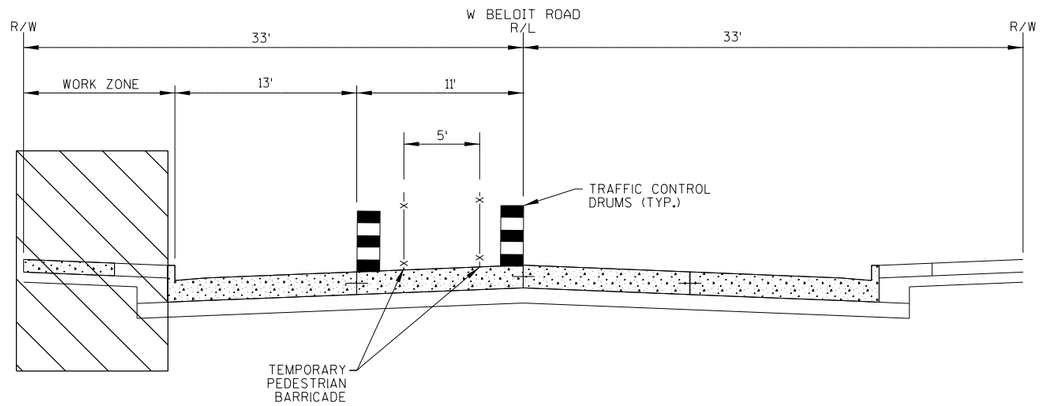
TEMPORARY STOP SIGN

2



STAGING TYPICAL SECTION - ROADWAY

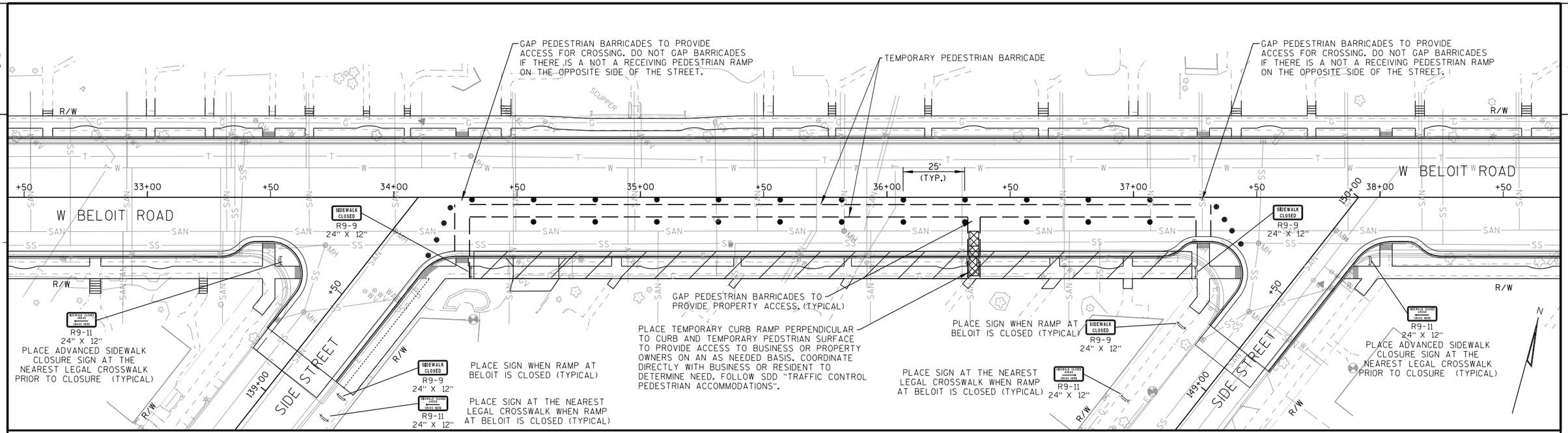
W BELOIT ROAD
(MAINTAIN PEDESTRIAN ACCESS ON EXISTING SIDEWALK)



STAGING TYPICAL SECTION - SIDEWALK CLOSURE

W BELOIT ROAD
(MAINTAIN PEDESTRIAN ACCESS IN DRIVING
LANE. CONSTRUCT ONE SIDE AT A TIME.)

PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	TRAFFIC CONTROL TYPICAL SECTIONS	SHEET 132	E

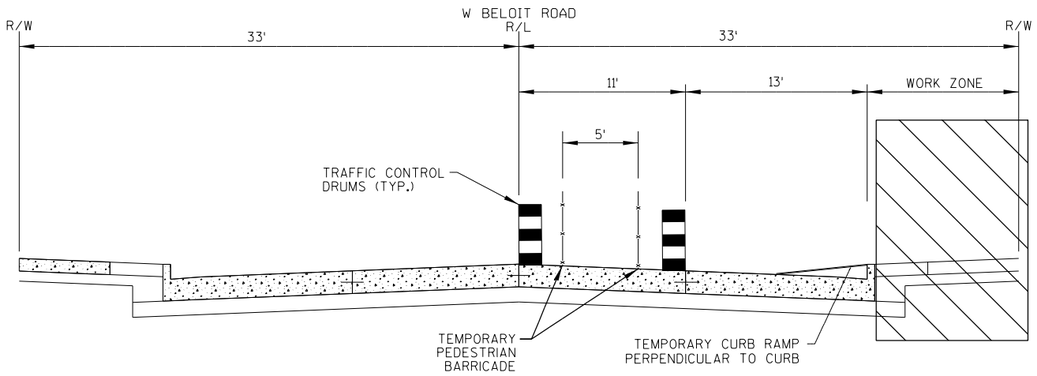


PEDESTRIAN ACCOMMODATION NOTES

1. SIDEWALK CONSTRUCTION - COORDINATE WITH PROPERTY OWNERS ON SCHEDULE: MAINTAIN SIDEWALK ACCESS ALONG BELOIT ROAD ON EXISTING SIDEWALK WHILE ROADWAY IS BEING RECONSTRUCTED. ONCE DRIVING LANES ARE COMPLETED, RECONSTRUCT THE SIDEWALKS BY DETOURING PEDESTRIANS TO THE FINISHED DRIVING LANE. PROVIDE TEMPORARY CURB RAMPS, TEMPORARY PEDESTRIAN SURFACE AND TEMPORARY PEDESTRIAN BARRICADES PAST THE WORK ZONE FOR PROPERTY ACCESS. THE SIDEWALK STAGING SECTION DETAIL AND PLAN VIEW SHOWN SHALL BE FLIPPED TO CONSTRUCT THE SIDEWALK ON THE OPPOSITE SIDE OF THE ROAD.
2. SIDEWALK TO BE CONSTRUCTED WHILE ROAD REMAINS CLOSED TO TRAFFIC. CONSTRUCT SIDEWALK ONE BLOCK AND ONE SIDE OF THE STREET AT A TIME.
3. MAINTAIN PEDESTRIAN ACCESS BY ONLY CLOSING ONE SIDE OF THE INTERSECTION AT A TIME OR BY DETOURING PEDESTRIANS TO NEXT SIDE STREET. DO NOT CLOSE TWO ADJACENT SIDE ROADS AT THE SAME TIME.
4. SEE SDD "TRAFFIC CONTROL PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMP SUPPORT
- TRAFFIC CONTROL DRUMS WITH/WITHOUT TYPE C STEADY BURN LIGHT
- TYPE II BARRICADE WITH/ WITHOUT ATTACED SIGN AND ONE TYPE A LIGHT
- TYPE III BARRICADE WITH/ WITHOUT ATTACHED SIGN AND TWO TYPE A LIGHTS

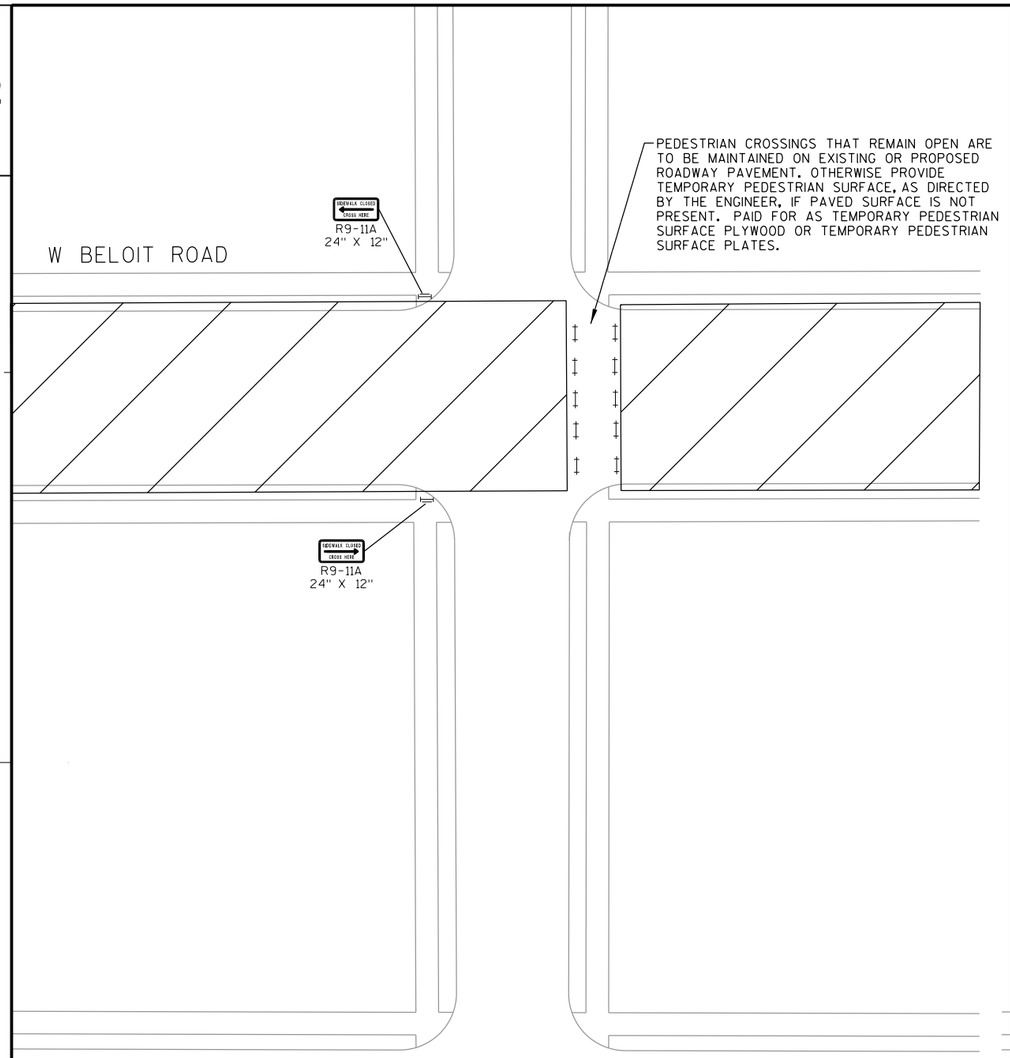


STAGING TYPICAL SECTION - SIDEWALKS

W BELOIT ROAD

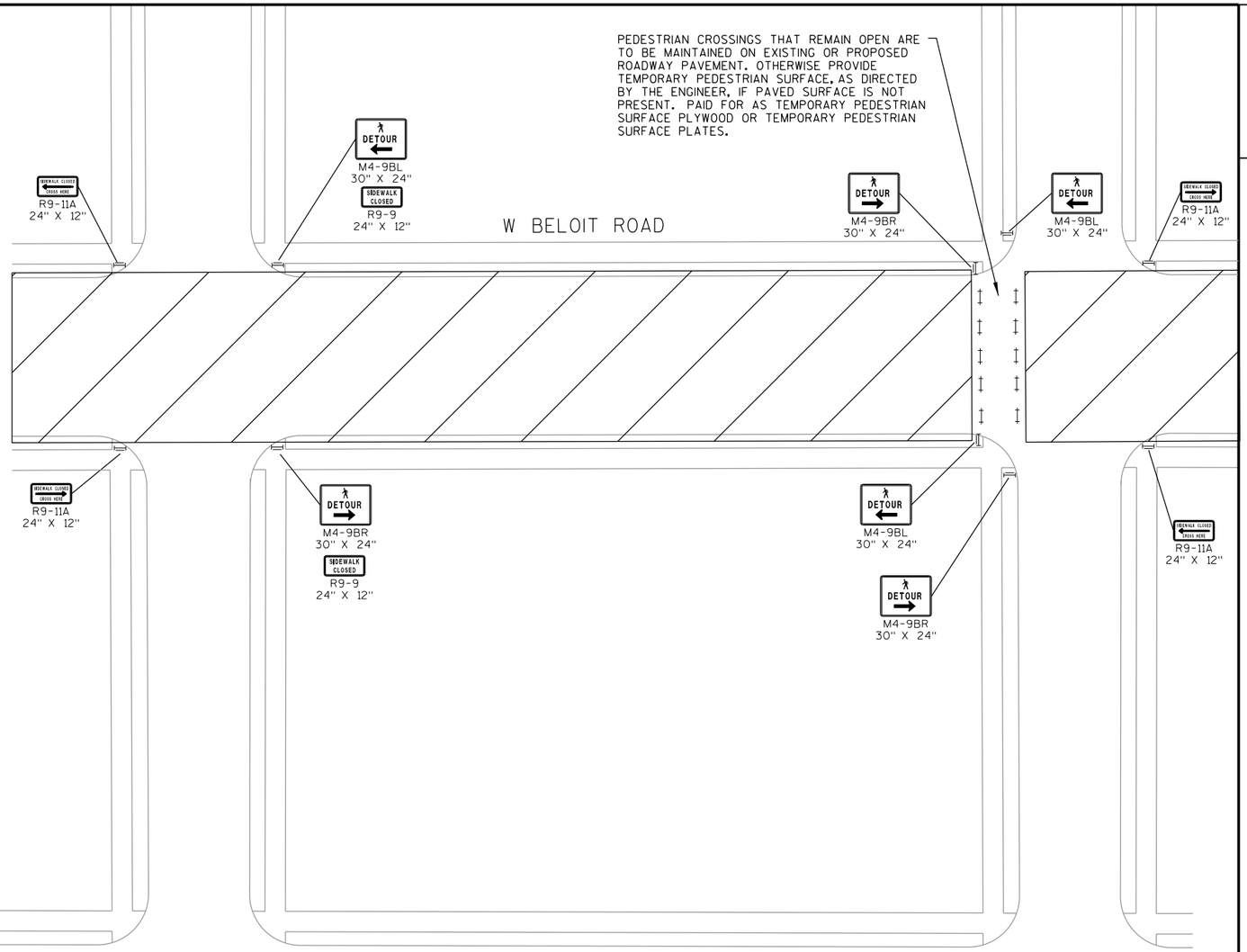
(MAINTAIN PEDESTRIAN ACCESS IN DRIVING LANE. CONSTRUCT ONE SIDE AT A TIME.)

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	TRAFFIC CONTROL: SIDEWALK CLOSURE CONSTRUCTION DETAIL	SHEET 133	E



PARTIAL SIDEWALK CROSSING CLOSURE - NO DETOUR

TYPICAL PEDESTRIAN CROSSING CLOSURE WHEN ONLY CLOSING ONE SIDE OF THE INTERSECTION



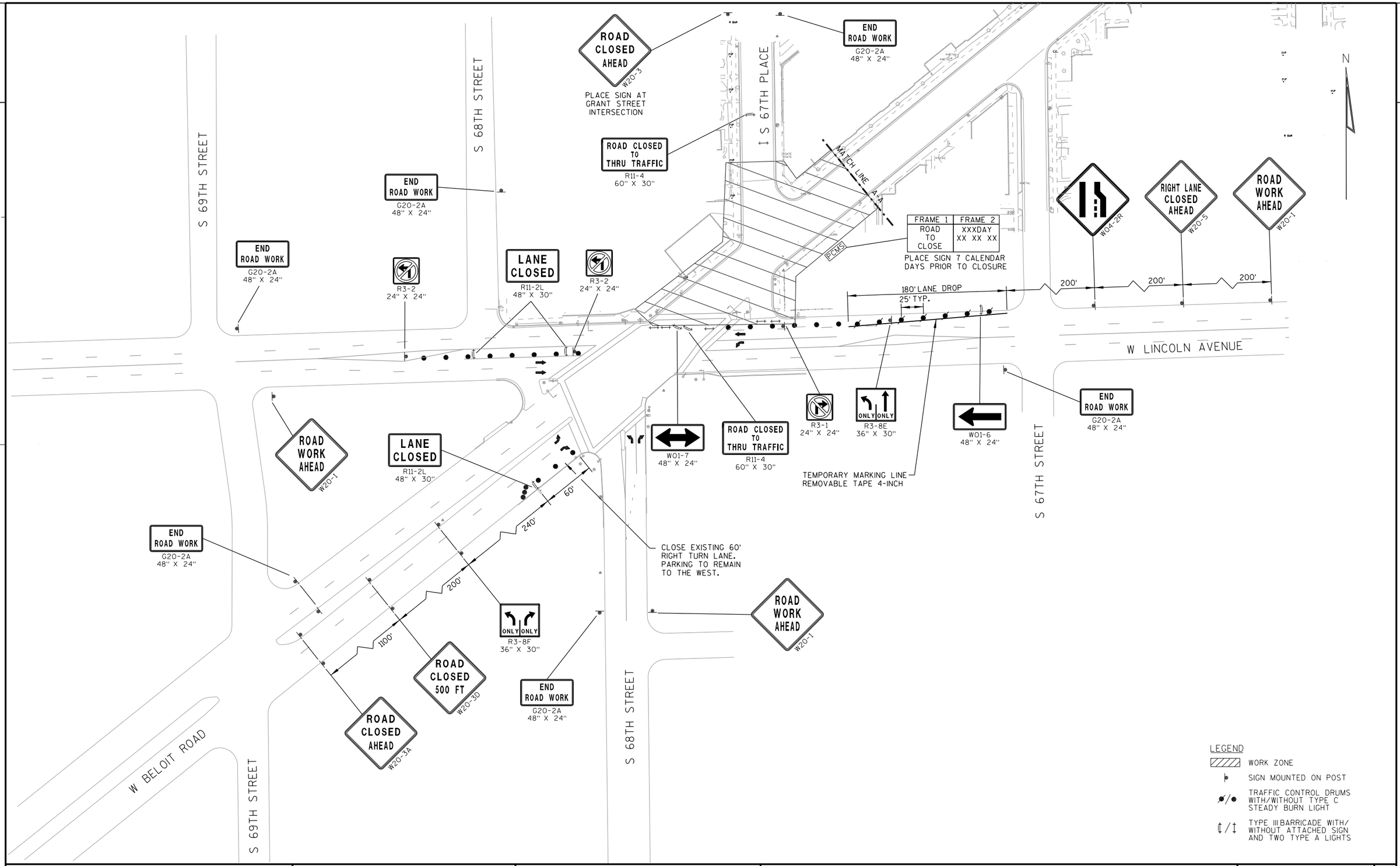
FULL SIDEWALK CROSSING CLOSURE - DETOUR

TYPICAL SIDEWALK DETOUR WHEN COMPLETELY CLOSING ONE OF THE SIDE ROADS

PEDESTRIAN ACCOMMODATION NOTES

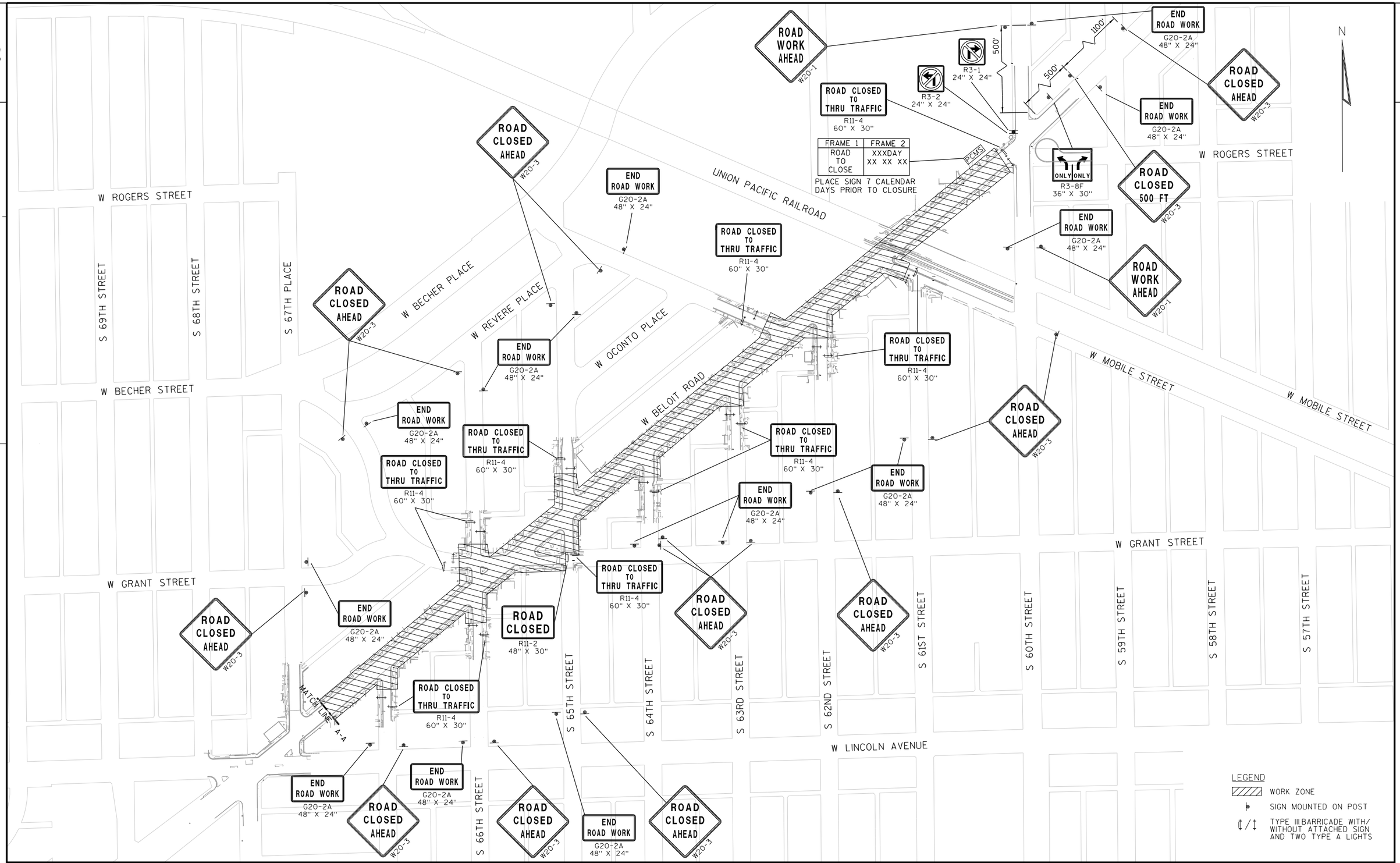
1. MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES BY ONLY CLOSING ONE SIDE OF THE INTERSECTION AT A TIME OR BY DETOURING PEDESTRIANS TO NEXT SIDE STREET. DO NOT CLOSE TWO ADJACENT SIDE ROADS AT THE SAME TIME.
2. SEE STANARD DETAIL DRAWING "TRAFFIC CONTROL PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PEDESTRIAN ACCOMMODATIONS	SHEET 134	E



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	TRAFFIC CONTROL	SHEET 135	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\026001_s1.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 100.0000 sf / in.



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	TRAFFIC CONTROL	SHEET 136	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\026002_s1.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 300.0000 sf / in.

WISDOT/CADDS SHEET 42

2

LEGEND

- DETOUR ROUTE
- WORK ZONE
- TEMPORARY TRAFFIC CONTROL SIGN POST
- TYPE III BARRICADE WITH ATTACHED SIGN AND TWO TYPE A LIGHTS

NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES.

THE SPACING BETWEEN THE TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED NOT TO CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200' 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 AND PAID FOR UNDER THE ITEM TRAFFIC CONTROL COVERING SIGNS.

FOLLOW SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" FOR MAINLINE ROAD CLOSED SIGNAGE.

① BELOIT RD / DETOUR AHEAD W20-2 — 24" X 18"

② DETOUR / BELOIT RD — M4-8 24" X 12", 24" X 18"; M05-1L 21" X 21"

③ DETOUR / BELOIT RD — M4-8 24" X 12", 24" X 18"; M06-1 21" X 21"

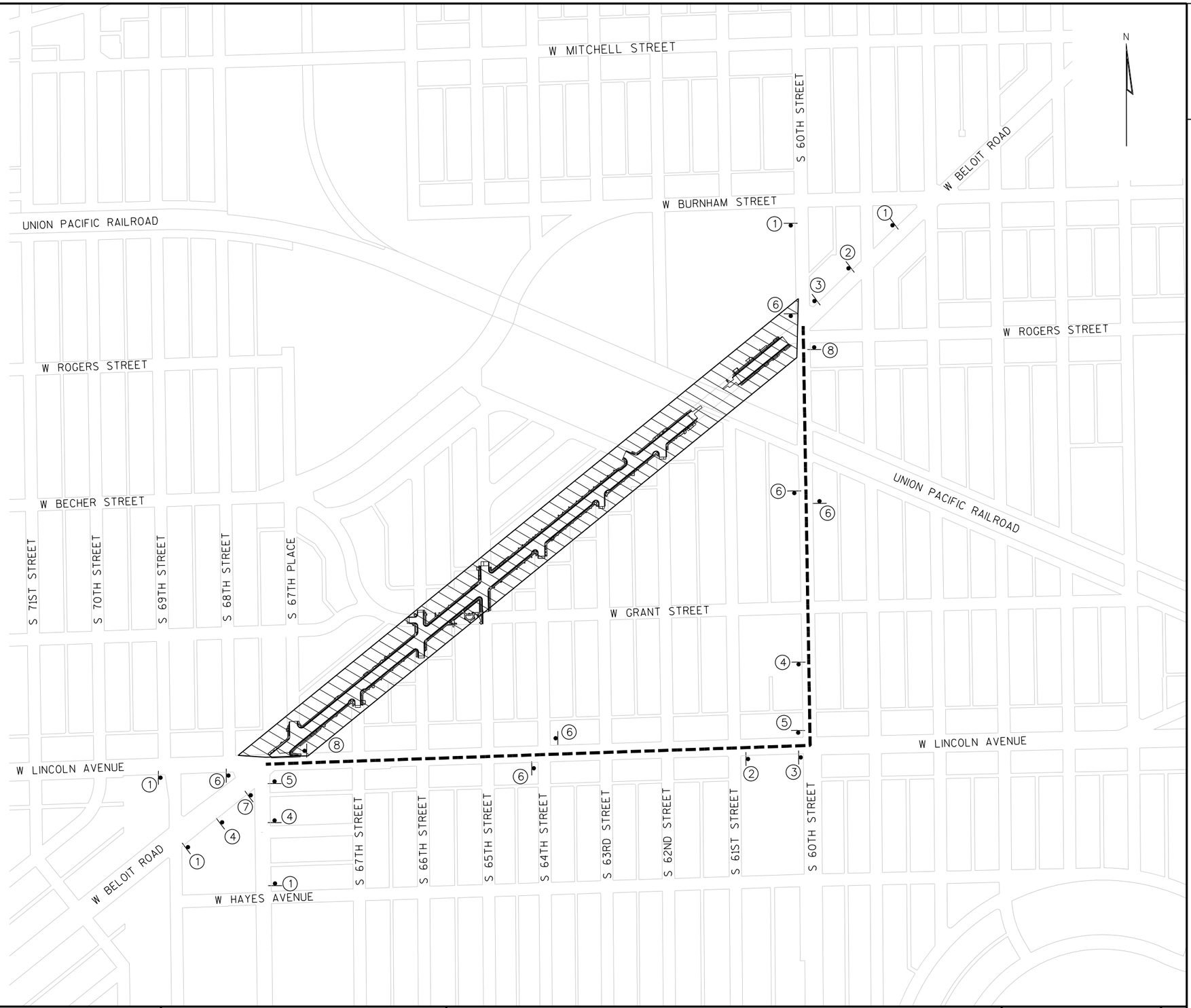
④ DETOUR / BELOIT RD — M4-8 24" X 12", 24" X 18"; M5-01R 21" X 21"

⑤ DETOUR / BELOIT RD — M4-8 24" X 12", 24" X 18"; M06-1 21" X 21"

⑥ DETOUR / BELOIT RD — M4-8 24" X 12", 24" X 18"; M06-1 21" X 21"

⑦ DETOUR / BELOIT RD — M4-8 24" X 12", 24" X 18"; M5-2R 21" X 21"

⑧ END DETOUR / BELOIT RD — M4-8A 24" X 18", 24" X 18"



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	DETOUR PLAN	SHEET 137	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\027001_dt.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 500.0000 sf / in.

2



CONTROL POINTS

NUMBER	DESCRIPTION	STATION	OFFSET	X	Y
52	MAG NAIL	16+80.90	48.73 RT	2,535,911.25	371,915.30
54	MAG NAIL	18+71.85	29.10 RT	2,536,046.86	372,051.16
56	5/8" REBAR W/PINK CAP	22+68.24	31.40 LT	2,536,315.89	372,348.50
58	MAG NAIL	24+71.51	28.65 RT	2,536,511.39	372,430.38
59	5/8" REBAR W/PINK CAP	27+08.76	31.29 LT	2,536,657.42	372,626.74
62	5/8" REBAR W/PINK CAP	28+98.40	35.69 RT	2,536,846.73	372,694.62
63	MAG NAIL	30+71.98	27.45 RT	2,536,976.08	372,810.69
65	MAG NAIL	34+11.55	30.80 LT	2,537,202.48	373,070.38
67	MAG NAIL	37+76.32	35.18 RT	2,537,526.92	373,249.69
69	MAG NAIL	40+14.40	29.82 RT	2,537,708.07	373,404.27
71	MAG NAIL	41+68.99	27.10 LT	2,537,791.94	373,546.06
73	MAG NAIL	44+79.83	43.82 RT	2,538,077.69	373,687.48
75	MAG NAIL	48+11.01	20.98 LT	2,538,293.46	373,946.95
76	MAG NAIL	50+68.36	30.09 RT	2,538,526.38	374,072.46
79	MAG NAIL	53+40.97	28.55 LT	2,538,681.62	374,304.09

Line	Item	Item Description	Unit	Total	2525-03-71 Qty	2525-03-72 Qty
0002	201.0105	Clearing	STA	6.000	6.000	
0004	201.0120	Clearing	ID	59.000	59.000	
0006	201.0205	Grubbing	STA	6.000	6.000	
0008	201.0220	Grubbing	ID	59.000	59.000	
0010	204.0100	Removing Concrete Pavement	SY	19,963.000	19,963.000	
0012	204.0120	Removing Asphaltic Surface Milling	SY	85.000	85.000	
0014	204.0155	Removing Concrete Sidewalk	SY	4,463.000	4,463.000	
0016	204.0165	Removing Guardrail	LF	104.000	104.000	
0018	204.0170	Removing Fence	LF	4.000	4.000	
0020	204.0195	Removing Concrete Bases	EACH	25.000	25.000	
0022	204.0210	Removing Manholes	EACH	25.000	25.000	
0024	204.0215	Removing Catch Basins	EACH	25.000	25.000	
0026	204.0245	Removing Storm Sewer (size) 01. 4-Inch	LF	69.000	69.000	
0028	204.0245	Removing Storm Sewer (size) 02. 6-Inch	LF	279.000	279.000	
0030	204.0245	Removing Storm Sewer (size) 03. 12-Inch	LF	1,126.000	1,126.000	
0032	204.0245	Removing Storm Sewer (size) 04. 15-Inch	LF	365.000	365.000	
0034	204.0245	Removing Storm Sewer (size) 05. 18-Inch	LF	391.000	391.000	
0036	204.0245	Removing Storm Sewer (size) 06. 21-Inch	LF	758.000	758.000	
0038	204.0245	Removing Storm Sewer (size) 07. 24-Inch	LF	512.000	512.000	
0040	204.0245	Removing Storm Sewer (size) 08. 27-Inch	LF	37.000	37.000	
0042	204.0291.S	Abandoning Sewer	CY	13.000	2.000	11.000
0044	204.9060.S	Removing (item description) 01. Bollard	EACH	1.000	1.000	
0046	204.9060.S	Removing (item description) 02. Traffic Signals - S 60th St & W Beloit Rd	EACH	1.000	1.000	
0048	204.9060.S	Removing (item description) 03.Traffic Signals - W Lincoln Ave & W Beloit Rd	EACH	1.000	1.000	
0050	204.9060.S	Removing (item description) 04. Lighting Units	EACH	25.000	25.000	
0052	204.9060.S	Removing (item description) 05. Brick Planter	EACH	1.000	1.000	
0054	204.9165.S	Removing (item description) 01. Concrete Steps	SF	730.000	730.000	
0056	204.9165.S	Removing (item description) 02. Wood Ramp	SF	5.000	5.000	
0058	205.0100	Excavation Common	CY	16,032.000	16,032.000	
0060	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	951.000	951.000	
0062	213.0100	Finishing Roadway (project) 01. 2525-03-71	EACH	1.000	1.000	
0064	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	8,018.000	8,018.000	
0066	310.0110	Base Aggregate Open-Graded	TON	28.000	28.000	
0068	311.0110	Breaker Run	TON	11,836.000	11,836.000	
0070	320.0145	Concrete Base 8-Inch	SY	524.000	524.000	
0072	415.0080	Concrete Pavement 8-Inch	SY	16,335.000	16,335.000	
0074	415.4100	Concrete Pavement Joint Filling	SY	16,335.000	16,335.000	
0076	416.0170	Concrete Driveway 7-Inch	SY	754.000	754.000	
0078	416.0610	Drilled Tie Bars	EACH	56.000	56.000	
0080	416.0620	Drilled Dowel Bars	EACH	351.000	351.000	
0082	455.0605	Tack Coat	GAL	92.000	92.000	
0084	460.2000	Incentive Density HMA Pavement	DOL	140.000	140.000	
0086	460.5223	HMA Pavement 3 LT 58-28 S	TON	94.000	94.000	
0088	460.5224	HMA Pavement 4 LT 58-28 S	TON	119.000	119.000	
0090	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	95.000	95.000	
0092	513.2001	Railing Pipe	LF	27.000	27.000	
0094	520.8000	Concrete Collars for Pipe	EACH	8.000	8.000	
0096	601.0319	Concrete Curb & Gutter 19-Inch	LF	10.000	10.000	
0098	601.0331	Concrete Curb & Gutter 31-Inch	LF	6,676.000	6,676.000	

Line	Item	Item Description	Unit	Total	2525-03-71 Qty	2525-03-72 Qty
0100	601.0600	Concrete Curb Pedestrian	LF	84.000	84.000	
0102	602.0410	Concrete Sidewalk 5-Inch	SF	32,808.000	32,808.000	
0104	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	431.000	431.000	
0106	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	88.000	88.000	
0108	602.1500	Concrete Steps	SF	400.000	400.000	
0110	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	352.000	352.000	
0112	608.0421	Storm Sewer Pipe Reinforced Concrete Class IV 21-Inch	LF	44.000	44.000	
0114	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	186.000	186.000	
0116	608.0427	Storm Sewer Pipe Reinforced Concrete Class IV 27-Inch	LF	93.000	93.000	
0118	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	204.000	204.000	
0120	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	983.000	983.000	
0122	608.0512	Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	LF	931.000	931.000	
0124	608.0515	Storm Sewer Pipe Reinforced Concrete Class V 15-Inch	LF	118.000	118.000	
0126	608.2419	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	23.000	23.000	
0128	611.0530	Manhole Covers Type J	EACH	21.000	21.000	
0130	611.0612	Inlet Covers Type C	EACH	4.000	4.000	
0132	611.0648	Inlet Covers Type R	EACH	29.000	29.000	
0134	611.2004	Manholes 4-FT Diameter	EACH	9.000	9.000	
0136	611.2005	Manholes 5-FT Diameter	EACH	8.000	8.000	
0138	611.2006	Manholes 6-FT Diameter	EACH	4.000	4.000	
0140	611.2007	Manholes 7-FT Diameter	EACH	2.000	2.000	
0142	611.2008	Manholes 8-FT Diameter	EACH	2.000	2.000	
0144	611.2009	Manholes 9-FT Diameter	EACH	1.000	1.000	
0146	611.3003	Inlets 3-FT Diameter	EACH	2.000	2.000	
0148	611.8105	Adjusting Catch Basin Covers	EACH	7.000	7.000	
0150	611.8110	Adjusting Manhole Covers	EACH	9.000	9.000	
0152	612.0106	Pipe Underdrain 6-Inch	LF	400.000	400.000	
0154	618.0100	Maintenance And Repair of Haul Roads (project) 01. 2525-03-71	EACH	1.000	1.000	
0156	619.1000	Mobilization	EACH	1.000	1.000	
0158	624.0100	Water	MGAL	80.000	80.000	
0160	625.0100	Topsoil	SY	3,923.000	3,923.000	
0162	627.0200	Mulching	SY	100.000	100.000	
0164	628.1104	Erosion Bales	EACH	50.000	50.000	
0166	628.1504	Silt Fence	LF	100.000	100.000	
0168	628.1520	Silt Fence Maintenance	LF	100.000	100.000	
0170	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0172	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000	
0174	628.7005	Inlet Protection Type A	EACH	34.000	34.000	
0176	628.7010	Inlet Protection Type B	EACH	2.000	2.000	
0178	628.7015	Inlet Protection Type C	EACH	67.000	67.000	
0180	628.7020	Inlet Protection Type D	EACH	13.000	13.000	
0182	628.7560	Tracking Pads	EACH	4.000	4.000	
0184	629.0210	Fertilizer Type B	CWT	2.700	2.700	
0186	630.0200	Seeding Temporary	LB	3.000	3.000	
0188	631.0300	Sod Water	MGAL	192.100	192.100	
0190	631.1000	Sod Lawn	SY	4,288.000	4,288.000	
0192	632.0101	Trees (species) (size) (root) 01. Elm, Frontier, B&B, 2.5" Cal	EACH	25.000	25.000	
0194	632.0101	Trees (species) (size) (root) 02. Ginko, Princeton Sentry, B&B, 2.5" Cal	EACH	10.000	10.000	
0196	632.0101	Trees (species) (size) (root) 03. Hackberry, Prairie Sentinel, B&B, 2.5" Cal	EACH	7.000	7.000	

Line	Item	Item Description	Unit	Total	2525-03-71 Qty	2525-03-72 Qty
0198	632.0101	Trees (species) (size) (root) 04. Honeylocust, Streetkeeper, B&B, 2.5" Cal	EACH	7.000	7.000	
0200	632.0101	Trees (species) (size) (root) 05. Zelkova, Musashino, B&B, 2.5" Cal	EACH	9.000	9.000	
0202	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	15.000	15.000	
0204	637.2210	Signs Type II Reflective H	SF	225.500	225.500	
0206	637.2230	Signs Type II Reflective F	SF	23.100	23.100	
0208	638.2102	Moving Signs Type II	EACH	26.000	26.000	
0210	638.2602	Removing Signs Type II	EACH	69.000	69.000	
0212	638.3000	Removing Small Sign Supports	EACH	30.000	30.000	
0214	642.5401	Field Office Type D	EACH	1.000	1.000	
0216	643.0300	Traffic Control Drums	DAY	7,657.000	7,657.000	
0218	643.0410	Traffic Control Barricades Type II	DAY	4,020.000	4,020.000	
0220	643.0420	Traffic Control Barricades Type III	DAY	7,437.000	7,437.000	
0222	643.0705	Traffic Control Warning Lights Type A	DAY	16,080.000	16,080.000	
0224	643.0715	Traffic Control Warning Lights Type C	DAY	1,407.000	1,407.000	
0226	643.0900	Traffic Control Signs	DAY	28,542.000	28,542.000	
0228	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000	
0230	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000	
0232	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	181.000	181.000	
0234	643.5000	Traffic Control	EACH	1.000	1.000	
0236	644.1430	Temporary Pedestrian Surface Plate	SF	480.000	480.000	
0238	644.1440	Temporary Pedestrian Surface Matting	SF	1,100.000	1,100.000	
0240	644.1601	Temporary Pedestrian Curb Ramp	DAY	120.000	120.000	
0242	644.1810	Temporary Pedestrian Barricade	LF	9,400.000	9,400.000	
0244	645.0111	Geotextile Type DF Schedule A	SY	200.000	200.000	
0246	645.0120	Geotextile Type HR	SY	150.000	150.000	
0248	645.0220	Geogrid Type SR	SY	19,732.000	19,732.000	
0250	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	17,584.000	17,584.000	
0252	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	375.000	375.000	
0254	646.5020	Marking Arrow Epoxy	EACH	4.000	4.000	
0256	646.5320	Marking Railroad Crossings Epoxy	EACH	2.000	2.000	
0258	646.6120	Marking Stop Line Epoxy 18-Inch	LF	159.000	159.000	
0260	646.7020	Marking Diagonal Epoxy 6-Inch	LF	443.000	443.000	
0262	646.7120	Marking Diagonal Epoxy 12-Inch	LF	187.000	187.000	
0264	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	2,589.000	2,589.000	
0266	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	622.000	622.000	
0268	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	160.000	160.000	
0270	646.9210	Marking Removal Line Water Blasting Wide	LF	61.000	61.000	
0272	650.4000	Construction Staking Storm Sewer	EACH	53.000	53.000	
0274	650.4500	Construction Staking Subgrade	LF	2,912.000	2,912.000	
0276	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	6,770.000	6,770.000	
0278	650.7000	Construction Staking Concrete Pavement	LF	2,912.000	2,912.000	
0280	650.8501	Construction Staking Electrical Installations (project) 01. 2525-03-71	EACH	1.000	1.000	
0282	650.9000	Construction Staking Curb Ramps	EACH	48.000	48.000	
0284	650.9500	Construction Staking Sidewalk (project) 01. 2525-03-71	EACH	1.000	1.000	
0286	650.9911	Construction Staking Supplemental Control (project) 01. 2525-03-71	EACH	1.000	1.000	
0288	650.9920	Construction Staking Slope Stakes	LF	2,912.000	2,912.000	
0290	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	7,277.000	7,277.000	
0292	653.0135	Pull Boxes Steel 24x36-Inch	EACH	8.000	8.000	
0294	654.0101	Concrete Bases Type 1	EACH	1.000	1.000	

Line	Item	Item Description	Unit	Total	2525-03-71 Qty	2525-03-72 Qty
0296	654.0105	Concrete Bases Type 5	EACH	27.000	27.000	
0298	654.0110	Concrete Bases Type 10	EACH	1.000	1.000	
0300	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000	
0302	655.0230	Cable Traffic Signal 5-14 AWG	LF	186.000	186.000	
0304	655.0240	Cable Traffic Signal 7-14 AWG	LF	114.000	114.000	
0306	655.0320	Cable Type UF 2-10 AWG Grounded	LF	158.000	158.000	
0308	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	322.000	322.000	
0310	655.0610	Electrical Wire Lighting 12 AWG	LF	3,323.000	3,323.000	
0312	655.0625	Electrical Wire Lighting 6 AWG	LF	20,151.000	20,151.000	
0314	656.0201	Electrical Service Meter Breaker Pedestal (location) 01 STA. 27+30	EACH	1.000	1.000	
0316	657.0100	Pedestal Bases	EACH	3.000	3.000	
0318	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	27.000	27.000	
0320	657.0322	Poles Type 5-Aluminum	EACH	27.000	27.000	
0322	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	1.000	1.000	
0324	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	2.000	2.000	
0326	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	27.000	27.000	
0328	657.0810	Luminaire Arms Steel 10-FT	EACH	1.000	1.000	
0330	658.0173	Traffic Signal Face 3S 12-Inch	EACH	1.000	1.000	
0332	658.0175	Traffic Signal Face 5S 12-Inch	EACH	4.000	4.000	
0334	658.5070	Signal Mounting Hardware (location) 01. W Lincoln Ave & W Beloit Rd	EACH	1.000	1.000	
0336	658.5070	Signal Mounting Hardware (location) 02. S 60th St & W Beloit Rd	EACH	1.000	1.000	
0338	659.1125	Luminaires Utility LED C	EACH	28.000	28.000	
0340	659.2230	Lighting Control Cabinets 240/480 30-Inch	EACH	1.000	1.000	
0342	659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH	25.000	25.000	
0344	690.0150	Sawing Asphalt	LF	874.000	874.000	
0346	690.0250	Sawing Concrete	LF	1,810.000	1,810.000	
0348	715.0715	Incentive Flexural Strength Concrete Pavement	DOL	4,901.000	4,901.000	
0350	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	4,901.000	4,901.000	
0352	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	3,200.000	3,200.000	
0354	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	8,400.000	8,400.000	
0356	SPV.0060	Special 02. Catch Basin Special	EACH	25.000	25.000	
0358	SPV.0060	Special 03. Storm Sewer Reconnect	EACH	18.000	18.000	
0360	SPV.0060	Special 04. Round Steel Sign Post System	EACH	30.000	30.000	
0362	SPV.0060	Special 06. Marking Symbol Grooved Bike Lane Preformed Thermoplastic	EACH	29.000	29.000	
0364	SPV.0060	Special 07. Marking Arrow Grooved Bike Lane Preformed Thermoplastic	EACH	26.000	26.000	
0366	SPV.0060	Special 08. Bench	EACH	3.000	3.000	
0368	SPV.0060	Special 09. Trash Receptacle	EACH	1.000	1.000	
0370	SPV.0060	Special 10. Recycling Receptacle	EACH	1.000	1.000	
0372	SPV.0060	Special 11. Bicycle Rack	EACH	1.000	1.000	
0374	SPV.0060	Special 12. Internal Sanitary Manhole Seal	EACH	16.000		16.000
0376	SPV.0060	Special 13. Adjust Sanitary Manhole Frame	EACH	16.000		16.000
0378	SPV.0060	Special 14. Sanitary Manhole Frame with Solid Gasketed Lid	EACH	16.000		16.000
0380	SPV.0060	Special 15. Sanitary Manhole Abandonment	EACH	4.000		4.000
0382	SPV.0060	Special 16. Sanitary Manhole Bench Repair	EACH	1.000		1.000
0384	SPV.0060	Special 17. Sanitary Manhole 8" Core	EACH	1.000		1.000
0386	SPV.0060	Special 18. Sanitary Sewer Spot Relay SDR 35 PVC SP 15-Inch	EACH	1.000		1.000
0388	SPV.0060	Special 19. Building Sanitary Sewer Reconnect 8-Inch	EACH	1.000		1.000
0390	SPV.0060	Special 20. Valve 6-Inch	EACH	21.000		21.000
0392	SPV.0060	Special 21. Hydrant	EACH	11.000		11.000

Line	Item	Item Description	Unit	Total	2525-03-71 Qty	2525-03-72 Qty
0394	SPV.0060	Special 22. Adjust Water Valve Box	EACH	33.000		33.000
0396	SPV.0060	Special 23. Air Release 1-Inch	EACH	4.000		4.000
0398	SPV.0060	Special 24. Water Main Connection 6-Inch	EACH	16.000		16.000
0400	SPV.0060	Special 25. Water Main Connection 8-Inch	EACH	1.000		1.000
0402	SPV.0060	Special 26. Water Service Reconnect 1 1/2-Inch	EACH	3.000		3.000
0404	SPV.0060	Special 27. Water Service Reconnect 6-Inch	EACH	1.000		1.000
0406	SPV.0060	Special 28. Install Plug at Sanitary Wye	EACH	1.000		1.000
0408	SPV.0060	Special 29. Relocate Monotube Assembly	EACH	1.000	1.000	
0410	SPV.0060	Special 30. Salvage and Reinstall Push Buttons	EACH	4.000	4.000	
0412	SPV.0060	Special 31. Salvage and Reinstall Signal Heads	EACH	8.000	8.000	
0414	SPV.0060	Special 32. Vehicle Video Detection System 2 Camera	EACH	1.000	1.000	
0416	SPV.0060	Special 33. Salvage and Reinstall Emergency Preemption Detector	EACH	1.000	1.000	
0418	SPV.0090	Special 01. 6-Inch PVC Storm Sewer Lateral	LF	1,188.000	1,188.000	
0420	SPV.0090	Special 02. 8-Inch PVC Storm Sewer Lateral	LF	66.000	66.000	
0422	SPV.0090	Special 03. 12-Inch PVC Storm Sewer Lateral	LF	19.000	19.000	
0424	SPV.0090	Special 04. Storm Sewer Lining CIPP 42-Inch	LF	564.000	564.000	
0426	SPV.0090	Special 05. Decorative Fence	LF	207.000	207.000	
0428	SPV.0090	Special 06. Sanitary Sewer Relay SDR 35 PVC SP 8-Inch	LF	2,538.000		2,538.000
0430	SPV.0090	Special 07. Sanitary Sewer Lining CIPP 12-Inch	LF	460.000		460.000
0432	SPV.0090	Special 08. Building Sanitary Sewer 6-Inch	LF	1,728.000		1,728.000
0434	SPV.0090	Special 09. Water Main Relay 6-Inch	LF	3,903.000		3,903.000
0436	SPV.0090	Special 10. Water Main Relay 6-Inch in 18" Steel Casing	LF	135.000		135.000
0438	SPV.0090	Special 11. Water Service Copper 1-Inch	LF	1,448.000		1,448.000
0440	SPV.0090	Special 12. Water Service Copper 1 1/2-Inch	LF	35.000		35.000
0442	SPV.0165	Special 01. High Friction Green Surfacing	SF	4,340.000	4,340.000	
0444	SPV.0180	Special 01. Topsoil 12-Inch	SY	365.000	365.000	
0446	SPV.0180	Special 02. Backfill for Plant Beds, 24-Inch	SY	60.000	60.000	
0448	SPV.0200	Special 01. Sanitary Manhole 48-Inch Diameter	VF	135.000		135.000

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CLEARING AND GRUBBING

STREET	STATION	TO	STATION	OFFSET	201.0105 CLEARING STATION	201.0120 CLEARING I.D.	201.0205 GRUBBING STATION	201.0220 GRUBBING I.D.
W. BELOIT ROAD	31+00	-	34+00		3	-	3	-
W. BELOIT ROAD	35+27	-		LT	-	3	-	3
W. BELOIT ROAD	35+66	-		LT	-	5	-	5
W. BELOIT ROAD	36+00	-	37+00		1	-	1	-
W. BELOIT ROAD	38+00	-	39+00		1	-	1	-
W. BELOIT ROAD	39+33	-		RT	-	10	-	10
W. BELOIT ROAD	41+24	-		LT	-	20	-	20
W. BELOIT ROAD	42+70	-		LT	-	9	-	9
W. BELOIT ROAD	43+00	-	44+00		1	-	1	-
W. BELOIT ROAD	45+59	-		LT	-	12	-	12
PROJECT TOTAL					6	59	6	59

REMOVING CONCRETE SIDEWALK

STREET	FROM STATION		TO STATION	204.0155 SY
W. BELOIT RD	17+00	-	20+00	389
W. BELOIT RD	20+00	-	25+50	964
W. BELOIT RD	25+50	-	31+50	994
W. BELOIT RD	31+50	-	37+00	686
W. BELOIT RD	37+00	-	42+50	714
W. BELOIT RD	42+50	-	48+00	500
W. BELOIT RD	48+00	-	50+00	218
			PROJECT TOTAL:	4,463

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REMOVING CONCRETE PAVEMENT

STREET	FROM		TO	204.0100 SY
W. BELOIT RD	17+00	-	20+00	1,990
W. BELOIT RD	20+00	-	25+50	3,110
W. BELOIT RD	25+50	-	31+50	5,653
W. BELOIT RD	31+50	-	37+00	3,162
W. BELOIT RD	37+00	-	42+50	3,560
W. BELOIT RD	42+50	-	48+00	1,725
W. BELOIT RD	48+00	-	50+00	763
			PROJECT TOTAL	19,963

REMOVING GUARDRAIL

STREET	STATION	TO	STATION		204.0165 REMOVING GUARDRAIL LF
W. BELOIT RD	18+46	-	19+38	RT	104
PROJECT TOTAL					104

REMOVING ASPHALTIC SURFACE MILLING

STREET	FROM	TO	204.0120 SY
W. BELOIT RD	17+00	20+00	0
W. BELOIT RD	20+00	25+50	0
W. BELOIT RD	25+50	31+50	39
W. BELOIT RD	31+50	37+00	2
W. BELOIT RD	37+00	42+50	44
W. BELOIT RD	42+50	48+00	0
W. BELOIT RD	48+00	50+00	0
		PROJECT TOTAL	85

REMOVING FENCE

STREET	STATION		204.0170 REMOVING FENCE LF
W. BELOIT RD	29+96	LT	4
PROJECT TOTAL			4

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

REMOVING MANHOLES

STREET	STATION	OFFSET	REMOVING MANHOLES 204.0210 EACH
W. BELOIT RD	22+36	23' RT	1
W. BELOIT RD	22+64	15' LT	1
W. BELOIT RD	22+89	14' LT	1
W. BELOIT RD	26+02	63' RT	1
W. BELOIT RD	22+95	23' LT	1
W. BELOIT RD	26+23	22' RT	1
W. BELOIT RD	26+83	82' LT	1
W. BELOIT RD	27+02	67' LT	1
W. BELOIT RD	27+16	57' LT	1
W. BELOIT RD	27+65	23' LT	1
W. BELOIT RD	28+18	19' RT	1
W. BELOIT RD	30+10	58' RT	1
W. BELOIT RD	30+24	23' RT	1
W. BELOIT RD	30+40	20' RT	1
W. BELOIT RD	31+07	68' LT	1
W. BELOIT RD	33+63	47' RT	1
W. BELOIT RD	33+72	19' RT	1
W. BELOIT RD	37+25	18' RT	1
W. BELOIT RD	37+51	19' RT	1
W. BELOIT RD	37+47	46' RT	1
W. BELOIT RD	40+24	20' RT	1
W. BELOIT RD	41+38	21' RT	1
W. BELOIT RD	41+67	21' RT	1
W. BELOIT RD	42+29	22' RT	1
W. BELOIT RD	42+42	23' RT	1
PROJECT TOTAL			25

REMOVING CATCH BASINS

STREET	STATION	OFFSET	REMOVING CATCH BASINS 204.0215 EACH
W. BELOIT RD	20+23	23' LT	1
W. BELOIT RD	20+24	23' RT	1
W. BELOIT RD	21+88	23' RT	1
W. BELOIT RD	22+78	23' RT	1
W. BELOIT RD	22+58	23' LT	1
W. BELOIT RD	25+84	23' RT	1
W. BELOIT RD	25+99	49' RT	1
W. BELOIT RD	26+56	33' RT	1
W. BELOIT RD	26+74	78' LT	1
W. BELOIT RD	26+91	101' LT	1
W. BELOIT RD	29+86	23' RT	1
W. BELOIT RD	30+02	51' RT	1
W. BELOIT RD	30+48	40' RT	1
W. BELOIT RD	30+34	23' LT	1
W. BELOIT RD	30+84	86' LT	1
W. BELOIT RD	33+40	22' LT	1
W. BELOIT RD	33+37	23' RT	1
W. BELOIT RD	37+17	23' RT	1
W. BELOIT RD	37+80	37' RT	1
W. BELOIT RD	37+53	23' LT	1
W. BELOIT RD	39+55	22' LT	1
W. BELOIT RD	41+02	23' RT	1
W. BELOIT RD	41+67	37' RT	1
W. BELOIT RD	42+39	23' LT	1
W. BELOIT RD	42+66	23' LT	1
PROJECT TOTAL			25

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REMOVING STORM SEWER

STREET	STATION	-	STATION	LOCATION	204.0245.01 4-INCH LF	204.0245.02 6-INCH LF	204.0245.03 12-INCH LF	204.0245.04 15-INCH LF	204.0245.05 18-INCH LF	204.0245.06 21-INCH LF	204.0245.07 24-INCH LF	204.0245.08 27-INCH LF
W. BELOIT RD	17+00	-	50+00	LT & RT	69	279	1126	365	391	758	512	37
PROJECT TOTAL					69	279	1126	365	391	758	512	37

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

ABANDONING SEWER

STREET	FROM STATION	TO STATION	LOCATION	204.0291.S * CY
W. BELOIT ROAD	43+70	43+96	LT	0.2
W. BELOIT ROAD	43+70	44+06	RT	1.0
W. BELOIT ROAD	UNDISTRIBUTED	0	0	0.8
			PROJECT TOTAL	2

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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MISCELLANEOUS REMOVALS

STREET	STATION	OFFSET	204.9060.S.01 REMOVING BOLLARD EACH	204.9060.S.05 REMOVING BRICK PLANTER EACH	204.9165.S.01 REMOVING CONCRETE STEPS SF	204.9165.S.02 REMOVING WOOD RAMP SF
NATIONAL AVENUE	19+39	32' RT	1	-	-	-
65TH STREET	128+28	34' LT	-	-	-	-
65TH STREET	128+55	34' LT	-	-	-	-
NATIONAL AVENUE	23+80	33' RT	-	-	27	-
NATIONAL AVENUE	24+32	33' RT	-	-	-	5
NATIONAL AVENUE	24+52	33' RT	-	-	24	-
NATIONAL AVENUE	24+90	33' LT	-	-	20	-
NATIONAL AVENUE	25+22	33' RT	-	-	22	-
NATIONAL AVENUE	29+52	33' LT	-	-	18	-
NATIONAL AVENUE	29+75	33' LT	-	1	-	-
NATIONAL AVENUE	30+89	33' RT	-	-	23	-
NATIONAL AVENUE	31+35	33' RT	-	-	53	-
NATIONAL AVENUE	32+31	33' RT	-	-	34	-
NATIONAL AVENUE	32+60	33' LT	-	-	16	-
NATIONAL AVENUE	32+79	33' RT	-	-	31	-
NATIONAL AVENUE	33+01	33' LT	-	-	27	-
NATIONAL AVENUE	33+23	33' RT	-	-	27	-
NATIONAL AVENUE	33+25	33' LT	-	-	29	-
NATIONAL AVENUE	33+51	33' LT	-	-	12	-
NATIONAL AVENUE	33+66	33' LT	-	-	17	-
NATIONAL AVENUE	33+89	33' LT	-	-	13	-
NATIONAL AVENUE	34+06	33' LT	-	-	13	-
NATIONAL AVENUE	34+46	33' LT	-	-	31	-
NATIONAL AVENUE	35+52	33' LT	-	-	36	-
NATIONAL AVENUE	35+78	33' LT	-	-	18	-
NATIONAL AVENUE	36+17	33' LT	-	-	22	-
NATIONAL AVENUE	36+63	33' LT	-	-	27	-
NATIONAL AVENUE	37+00	33' LT	-	-	26	-
NATIONAL AVENUE	37+42	33' LT	-	-	28	-
NATIONAL AVENUE	37+72	33' LT	-	-	24	-
NATIONAL AVENUE	38+16	33' LT	-	-	28	-
NATIONAL AVENUE	38+60	33' LT	-	-	25	-
NATIONAL AVENUE	38+99	33' LT	-	-	32	-
NATIONAL AVENUE	40+52	33' RT	-	-	27	-
		PROJECT TOTAL:	1	1	730	5

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

NATIONAL AVENUE	FROM/TO STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT (2) CY	205.0100 EXCAVATION COMMON (1) EBS EXCAVATION (3) CY	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4) CY	AVAILABLE MATERIAL (5) CY	UNEXPANDED FILL CY	EXPANDED FILL (6) CY FACTOR 1.11	MASS ORDINATE +/- (7) CY	WASTE CY	COMMENT
	17+25 to 49+45	BELOIT ROAD	15,834	0	6,147	9,686	103	114	9,572	9,572	
		GRANT STREET	198	0	113	85	113	126	-41	-	PAVEMENT & BASE REMOVAL
GRAND TOTAL			16,032	0	6,260	9,771	216	240	9,531		
TOTAL COMMON EXC			16,032								

NOTES:

(1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(3) EBS EXCAVATION TO BE BACKFILLED WITH BREAKER RUN.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(6) EXPANDED FILL FACTOR = 1.11

(7) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

STREET	STATION	TO	STATION	OFFSET	205.0501.S TON
NATIONAL AVENUE	29+50	-	30+00	RT	128
NATIONAL AVENUE	30+00	-	30+60	RT	364
NATIONAL AVENUE	42+50	-	44+20	RT	459
PROJECT TOTAL					951

FINISHING ROADWAY (2525-03-71)

LOCATION	213.0100 EACH
W. BELOIT RD	1
PROJECT TOTAL	1

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

BASE AGGREGATE DENSE 1 1/4 INCH

STREET	STATION	TO	STATION	305.0120 TON
W. BELOIT RD	17+00	-	20+00	774
W. BELOIT RD	20+00	-	25+50	1,290
W. BELOIT RD	25+50	-	31+50	1,994
W. BELOIT RD	31+50	-	37+00	1,336
W. BELOIT RD	37+00	-	42+50	1,414
W. BELOIT RD	42+50	-	48+00	870
W. BELOIT RD	48+00	-	50+00	340
			PROJECT TOTAL	8,018

BREAKER RUN

STREET	STATION	TO	STATION	311.0110 TON
W. BELOIT RD	17+00	-	20+00	1,024
W. BELOIT RD	20+00	-	25+50	2,038
W. BELOIT RD	25+50	-	31+50	3,033
W. BELOIT RD	31+50	-	37+00	2,072
W. BELOIT RD	37+00	-	42+50	2,272
W. BELOIT RD	42+50	-	48+00	895
W. BELOIT RD	48+00	-	50+00	502
			PROJECT TOTAL	11,836

CONCRETE BASE 8-INCH

STREET	STATION	TO	STATION	320.0145 SY
W. BELOIT RD	17+00	-	20+00	302
W. BELOIT RD	20+00	-	25+50	28
W. BELOIT RD	25+50	-	31+50	137
W. BELOIT RD	31+50	-	37+00	34
W. BELOIT RD	37+00	-	42+50	23
W. BELOIT RD	42+50	-	48+00	0
W. BELOIT RD	48+00	-	50+00	0
PROJECT TOTAL				524

CONCRETE PAVEMENT

STREET	STATION	TO	STATION	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.4100 CONCRETE PAVEMENT JOINT FILLING SY
W. BELOIT RD	17+00	-	20+00	1,417	1,417
W. BELOIT RD	20+00	-	25+50	2,810	2,810
W. BELOIT RD	25+50	-	31+50	4,191	4,191
W. BELOIT RD	31+50	-	37+00	2,870	2,870
W. BELOIT RD	37+00	-	42+50	3,166	3,166
W. BELOIT RD	42+50	-	48+00	1,189	1,189
W. BELOIT RD	48+00	-	50+00	691	691
			PROJECT TOTAL	16,335	16,335

CONCRETE DRIVEWAY 7-INCH

STREET	STATION	TO	STATION	416.0170 CONCRETE DRIVEWAY 7-INCH SY
W. BELOIT RD	17+00	-	20+00	60
W. BELOIT RD	20+00	-	25+50	122
W. BELOIT RD	25+50	-	31+50	124
W. BELOIT RD	31+50	-	37+00	55
W. BELOIT RD	37+00	-	42+50	71
W. BELOIT RD	42+50	-	48+00	208
W. BELOIT RD	48+00	-	50+00	114
			PROJECT TOTAL	754

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

DRILLED TIE BARS

STREET	STATION	TO	STATION	416.0610 EACH
W. BELOIT RD	17+00	-	20+00	0
W. BELOIT RD	20+00	-	25+50	0
W. BELOIT RD	25+50	-	31+50	40
W. BELOIT RD	31+50	-	37+00	3
W. BELOIT RD	37+00	-	42+50	13
W. BELOIT RD	42+50	-	48+00	0
W. BELOIT RD	48+00	-	50+00	0
PROJECT TOTAL				56

DRILLED DOWEL BARS

STREET	STATION	TO	STATION	416.0620 EACH
W. BELOIT ROAD	17+00	-	20+00	86
W. BELOIT ROAD	20+00	-	25+50	20
W. BELOIT ROAD	25+50	-	31+50	112
W. BELOIT ROAD	31+50	-	37+00	26
W. BELOIT ROAD	37+00	-	42+50	72
W. BELOIT ROAD	42+50	-	48+00	0
W. BELOIT ROAD	48+00	-	50+00	35
PROJECT TOTAL				351

3

ASPHALT

STREET	STATION	TO	STATION	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
W. BELOIT RD	17+00	-	20+00	19	0	36	17
W. BELOIT RD	20+00	-	25+50	2	0	3	2
W. BELOIT RD	25+50	-	31+50	12	0	21	14
W. BELOIT RD	31+50	-	37+00	4	0	4	10
W. BELOIT RD	37+00	-	42+50	3	0	8	0
W. BELOIT RD	42+50	-	48+00	46	94	47	27
W. BELOIT RD	48+00	-	50+00	6	0	0	25
PROJECT TOTAL				92	94	119	95

CONCRETE SIDEWALK 5-INCH

STREET	STATION	TO	STATION	602.0410 SF
W. BELOIT RD	17+00	-	20+00	2,960
W. BELOIT RD	20+00	-	25+50	5,763
W. BELOIT RD	25+50	-	31+50	9,634
W. BELOIT RD	31+50	-	37+00	6,035
W. BELOIT RD	37+00	-	42+50	5,693
W. BELOIT RD	42+50	-	48+00	1,938
W. BELOIT RD	48+00	-	50+00	785
			PROJECT TOTAL	32,808

CONCRETE CURB & GUTTER

STREET	STATION	TO	STATION	601.0319 CONCRETE CURB AND GUTTER 19-INCH LF	601.0331 CONCRETE CURB AND GUTTER 31-INCH LF	601.0600 CONCRETE CURB PEDESTRIAN LF
W. BELOIT RD	17+00.00	-	20+00.00	0	572	0
W. BELOIT RD	20+00.00	-	25+50.00	10	1152	39
W. BELOIT RD	25+50.00	-	31+50.00	0	1699	45
W. BELOIT RD	31+50.00	-	37+00.00	0	1145	0
W. BELOIT RD	37+00.00	-	42+50.00	0	1223	0
W. BELOIT RD	42+50.00	-	48+00.00	0	595	0
W. BELOIT RD	48+00.00	-	50+00.00	0	290	0
PROJECT TOTAL				10	6676	84

CURB RAMP DETECTABLE WARNING FIELD

STREET	STATION	TO	STATION	YELLOW 602.0505 SF	RADIAL YELLOW 602.0605 SF
W. BELOIT RD	17+00	-	20+00	30	15
W. BELOIT RD	20+00	-	25+50	60	0
W. BELOIT RD	25+50	-	31+50	171	29
W. BELOIT RD	31+50	-	37+00	50	15
W. BELOIT RD	37+00	-	42+50	120	29
W. BELOIT RD	42+50	-	48+00	0	0
W. BELOIT RD	48+00	-	50+00	0	0
PROJECT TOTAL				431	88

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

CONCRETE STEPS

STREET	STA.	OFF	513.2001 RAILING PIPE LF	602.1500 CONCRETE STEPS SF
W. BELOIT RD	23+80.00	33' RT	5	20
W. BELOIT RD	24+52.00	33' RT	0	18
W. BELOIT RD	25+22.00	33' RT	4	16
W. BELOIT RD	29+52.00	33' LT	0	11
W. BELOIT RD	30+89.00	33' RT	0	18
W. BELOIT RD	31+35.00	33' RT	0	35
W. BELOIT RD	32+31.00	35' RT	4	16
W. BELOIT RD	32+60.00	33' LT	0	12
W. BELOIT RD	32+79.00	33' RT	0	27
W. BELOIT RD	33+01.00	33' LT	0	14
W. BELOIT RD	33+23.00	33' RT	0	20
W. BELOIT RD	33+25.00	33' LT	0	7
W. BELOIT RD	33+51.00	33' LT	0	8
W. BELOIT RD	33+66.00	33' LT	0	11
W. BELOIT RD	33+89.00	33' LT	0	5
W. BELOIT RD	34+06.00	33' LT	0	8
W. BELOIT RD	34+46.00	33' LT	4	16
W. BELOIT RD	35+52.00	33' LT	5	20
W. BELOIT RD	35+78.00	33' LT	0	12
W. BELOIT RD	36+17.00	33' LT	0	11
W. BELOIT RD	36+63.00	33' LT	0	12
W. BELOIT RD	37+00.00	33' LT	0	11
W. BELOIT RD	37+42.00	33' LT	0	12
W. BELOIT RD	37+72.00	34' LT	0	14
W. BELOIT RD	38+16.00	33' LT	0	15
W. BELOIT RD	38+60.00	33' LT	0	16
W. BELOIT RD	38+99.00	33' LT	0	15
PROJECT TOTAL			27	400

ADJUSTING CATCH BASIN COVERS

STREET	STATION	OFFSET	611.8105 EACH
W. BELOIT RD	26+36	23' LT	1
W. BELOIT RD	28+16	57' RT	1
S. 64TH ST	139+25	14' LT	1
S. 64TH ST	139+62	19' RT	1
W. BELOIT RD	39+76	54' LT	1
W. BELOIT RD	40+21	40' LT	1
S. 62ND ST	159+25	7' LT	1
PROJECT TOTAL			7

STORM SEWER SUMMARY

ITEM NUMBER	ITEM	PROJECT TOTAL	
520.8000	Concrete Collars for Pipe	8	EACH
608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	352	LF
608.0421	Storm Sewer Pipe Reinforced Concrete Class IV 21-Inch	44	LF
608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	186	LF
608.0427	Storm Sewer Pipe Reinforced Concrete Class IV 27-Inch	93	LF
608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	204	LF
608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	983	LF
608.0512	Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	931	LF
608.0515	Storm Sewer Pipe Reinforced Concrete Class V 15-Inch	118	LF
608.2419	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	23	LF
611.0530	Manhole Covers Type J	21	EACH
611.0612	Inlet Covers Type C	4	EACH
611.0648	Inlet Covers Type R	29	EACH
611.2004	Manholes 4-FT Diameter	9	EACH
611.2005	Manholes 5-FT Diameter	8	EACH
611.2006	Manholes 6-FT Diameter	4	EACH
611.2007	Manholes 7-FT Diameter	2	EACH
611.2008	Manholes 8-FT Diameter	2	EACH
611.2009	Manholes 9-FT Diameter	1	EACH
611.3003	Inlets 3-FT Diameter	2	EACH
SPV.0060.02	Catch Basin Special	25	EACH
SPV.0090.04	Storm Sewer Lining CIIP 42-Inch	564	LF

(REFER TO STORM SEWER PLAN DRAINAGE TABLE FOR ADDITIONAL INFORMATION)

ADJUSTING MANHOLE COVERS

STREET	STATION	OFFSET	611.8110 EACH
S. 67TH PL	100+87	7' LT	1
S. 65TH ST	128+35	35' LT	1
S. 65TH ST	128+77	5' LT	1
W. BELOIT RD	40+08	50' LT	1
W. BELOIT RD	40+55	3' RT	1
S. 62ND ST	159+25	7' LT	1
W. BELOIT RD	42+40	1' LT	1
W. BELOIT RD	48+89	25' LT	1
W. BELOIT RD	48+89	29' LT	1
PROJECT TOTAL			9

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

PIPE UNDERDRAIN, GEOTEXTILE FABRIC & GEOGRID

STREET	STATION	TO	STATION	310.0110 BASE AGGREGATE OPEN GRADE TON	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY	645.0220 GEOGRID TYPE SR SY
W. BELOIT RD	17+00	-	20+00	0	0	0	1708
W. BELOIT RD	20+00	-	25+50	5	70	35	3397
W. BELOIT RD	25+50	-	31+50	8	120	60	5056
W. BELOIT RD	31+50	-	37+00	2	30	15	3453
W. BELOIT RD	37+00	-	42+50	7	100	50	3788
W. BELOIT RD	42+50	-	48+00	6	80	40	1492
W. BELOIT RD	48+00	-	50+00	0	0	0	839
PROJECT TOTAL				28	400	200	19732

MAINTENANCE AND REPAIR OF HAUL ROADS ID 2525-03-71

LOCATION	CAT 0020 618.0100 EACH
W. BELOIT ROAD	1
PROJECT TOTAL	1

SILT FENCE

STREET	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
UNDISTRIBUTED	100	100
PROJECT TOTAL	100	100

WATER

STREET	STATION	TO	STATTION	624.0100 MGAL
BELOIT ROAD	17+00	-	50+00	80
			PROJECT TOTAL	80

3

TOPSOIL

STREET	STATION	TO	STATION	625.0100 TOPSOIL SY	SPV.0180.01 TOPSOIL 12-INCH SY	SPV.0180.02 BACKFILL FOR PLANT BEDS, 24-INCH SY
W. BELOIT RD	17+00	-	20+00	233	-	-
W. BELOIT RD	20+00	-	25+50	611	-	-
W. BELOIT RD	25+50	-	31+50	1181	-	-
POCKET PARK	28+30	-	30+00	-	365	60
W. BELOIT RD	31+50	-	37+00	853	-	-
W. BELOIT RD	37+00	-	42+50	745	-	-
W. BELOIT RD	42+50	-	48+00	230	-	-
W. BELOIT RD	48+00	-	50+00	69	-	-
			PROJECT TOTAL	3,923	365	60

TEMPORARY SEEDING AND MULCH

STREET	627.0200 MULCHING SY	630.0200 SEEDING TEMPORARY LB
UNDISTRIBUTED	100	3
	100	3

TRACKING PADS

STREET	LOCATION	628.7560 EACH
W. BELOIT RD	UNDISTRIBUTED	4
	PROJECT TOTAL	4

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

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TEMPORARY SETTLING BASINS

STREET	628.1104 EROSION BALES EACH	645.0120 GEOTEXTILE TYPE HR SY
UNDISTRIBUTED	50	150
PROJECT TOTAL	50	150

INLET PROTECTION

STREET	STATION	TO	STATION	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
W. BELOIT RD	17+00	-	20+00	1	-	3	-
W. BELOIT RD	20+00	-	25+50	5	-	9	4
W. BELOIT RD	25+50	-	31+50	12	2	21	4
W. BELOIT RD	31+50	-	37+00	2	-	6	-
W. BELOIT RD	37+00	-	42+50	10	-	22	1
W. BELOIT RD	42+50	-	48+00	4	-	4	4
W. BELOIT RD	48+00	-	50+00	-	-	2	-
			PROJECT TOTAL	34	2	67	13

3

EROSION CONTROL MOBILIZATIONS

LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
UNDISTRIBUTED	2	4
PROJECT TOTAL	2	4

SOD QUANTITIES

STREET	STATION	TO	STATTION	629.0210 FERTILIZER TYPE B CWT	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
W. BELOIT RD	17+00	-	20+00	0.1	10.4	233
W. BELOIT RD	20+00	-	25+50	0.4	27.4	611
W. BELOIT RD	25+50	-	31+50	1.0	69.3	1546
W. BELOIT RD	31+50	-	37+00	0.5	38.2	853
W. BELOIT RD	37+00	-	42+50	0.5	33.4	745
W. BELOIT RD	42+50	-	48+00	0.1	10.3	230
W. BELOIT RD	48+00	-	50+00	0.0	3.1	69
			PROJECT TOTAL	2.7	192.1	4,288

PLANT QUANTITIES

BID NUMBER	SYMBOL	COMMON NAME	SIZE WHEN PLANTED	ROOT CONDITION	UNIT	TOTALS
632.0101.01	ULF	ELM, FRONTIER	2.5" CAL	B&B	EA	25
632.0101.02	GBP	GINKGO, PRINCETON SENTRY	2.5" CAL	B&B	EA	10
632.0101.03	CPS	HACKBERRY, PRAIRIE SENTINEL	2.5" CAL	B&B	EA	7
632.0101.04	GTD	HONEYLOCUST, STREETKEEPER	2.5" CAL	B&B	EA	7
632.0101.05	ZSM	ZELKOVA, MUSASHINO	2.5" CAL	B&B	EA	9

B&B: BALLED AND BURLAPED

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

TYPE II SIGNS

SIGN NO.	LOCATION	STATION		SIGN CODE	MESSAGE	SIZE		637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SPV.0060.04 ROUND STEEL SIGN POST SYSTEM EACH	POLE HEIGHT FOR INFORMATION ONLY CONTRACTOR TO VERIFY POLE HEIGHT WITH MUTCD REQUIREMENTS PRIOR TO ORDERING			REMARKS
														10 ft	12 ft	14 FT	
1-1	BELOIT ROAD	17+30.53	LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1-2	BELOIT ROAD	17+32.83	LT	R10-11B	-	24	X 24	4.0	-	-	-	-	-	-	-	-	ATTACH TO SIGNAL POLE
1-3	BELOIT ROAD	17+65.44	LT	-		-	-	-	-	-	2	1	-	-	-	-	-
1-4	BELOIT ROAD	17+70.23	LT	R7-51L, R7-2R		24	X 18	3.0	-	-	-	-	1	1	-	-	-
1-5	BELOIT ROAD	18+01	RT	-		-	-	-	-	-	3	-	-	-	-	-	ATTACHED TO SIGNAL POLE
1-6	BELOIT ROAD	18+14	RT	W4-2R		36	X 36	-	9.0	-	-	-	-	-	-	-	ATTACH TO SIGNAL POLE
1-7	BELOIT ROAD	18+55	RT	-		-	-	-	-	-	2	-	-	-	-	-	ATTACHED TO LIGHT POLE
1-8	BELOIT ROAD	18+58.13	LT	-		-	-	-	-	2	1	1	-	-	-	-	ON POLE WITH 1-9
1-9	BELOIT ROAD	18+60.24	LT	R1-1		30	X 30	5.2	-	-	-	-	1	-	1	-	-
1-10	BELOIT ROAD	18+81	RT	-	-	-	-	-	-	-	2	1	-	-	-	-	-
1-11	BELOIT ROAD	19+07	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
1-12	BELOIT ROAD	19+15	RT	R3-17		30	X 24	5.0	-	-	-	-	1	-	1	-	-
1-13	BELOIT ROAD	19+15	RT	R7-1D		12	X 18	1.5	-	-	-	-	-	-	-	-	ON POLE WITH 1-12
1-14	BELOIT ROAD	19+42	LT	R10-7		24	X 30	5.0	-	-	-	-	1	-	1	-	-
1-15	BELOIT ROAD	19+81	LT	R3-17, R3-17B		30	X 36	7.5	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE
1-16	BELOIT ROAD	19+88	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
2-1	BELOIT ROAD	20+42	RT	R7-5L(MOD), R7-1R	ONE HOUR 8AM-6PM EXCEPT SUNDAY	24	X 18	3.0	-	-	-	-	1	1	-	-	-
2-2	BELOIT ROAD	21+08	RT	R2-1	-	24	X 30	5.0	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE
2-3	BELOIT ROAD	21+08	RT	R7-5D (MOD)	TWO HOUR 8AM-6PM EXCEPT SUNDAY	12	X 18	1.5	-	-	-	-	-	-	-	-	ON POLE WITH 2-2
2-4	BELOIT ROAD	21+45	RT	-	-	-	-	-	-	-	2	-	-	-	-	-	ATTACHED TO LIGHT POLE
2-5	BELOIT ROAD	22+53	RT	R1-1	-	30	X 30	5.2	-	-	-	-	1	-	1	-	-
2-6	BELOIT ROAD	22+54	RT	-	-	-	-	-	-	2	1	1	-	-	-	-	ON POLE WITH 2-5
2-7	BELOIT ROAD	23+16	LT	-	-	-	-	-	-	-	1	-	-	-	-	-	ATTACHED TO LIGHT POLE
2-8	BELOIT ROAD	23+53	RT	-	-	-	-	-	-	1	-	-	-	-	-	-	ATTACH TO LIGHT POLE
2-9	BELOIT ROAD	24+81	LT	R2-1	-	24	X 30	5.0	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE
3-1	BELOIT ROAD	25+82	RT	-	-	-	-	-	-	-	1	-	-	-	-	-	ATTACHED TO LIGHT POLE
3-2	BELOIT ROAD	25+83	RT	R5-2	-	24	X 24	4.0	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE
3-3	BELOIT ROAD	26+54	RT	R1-1	-	30	X 30	5.2	-	-	-	-	1	-	1	-	-
3-4	BELOIT ROAD	26+59	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
3-5	BELOIT ROAD	26+61	LT	-	-	-	-	-	-	2	1	1	-	-	-	-	ON POLE WITH 3-6
3-6	BELOIT ROAD	26+64	LT	R1-1	-	30	X 30	5.2	-	-	-	-	1	-	1	-	-
3-7	BELOIT ROAD	26+72	LT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
3-8	BELOIT ROAD	26+74	LT	R1-1	-	30	X 30	5.2	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE
3-9	BELOIT ROAD	26+75	LT	R7-1D	NO PARKING ANY TIME	12	X 18	1.5	-	-	-	-	1	1	-	-	-
3-10	BELOIT ROAD	26+76	LT	-	-	-	-	-	-	-	1	-	-	-	-	-	ATTACHED TO LIGHT POLE
3-11	BELOIT ROAD	26+92	LT	R5-2	-	24	X 24	4.0	-	-	-	-	1	-	1	-	-
3-12	BELOIT ROAD	26+98	LT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
3-13	BELOIT ROAD	27+12	LT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
3-14	BELOIT ROAD	27+15	LT	-	-	-	-	-	-	2	-	-	-	-	-	-	ATTACH TO LIGHT POLE
3-15	BELOIT ROAD	27+17	LT	-	-	-	-	-	-	-	2	-	-	-	-	-	ATTACHED TO LIGHT POLE
3-16	BELOIT ROAD	27+20	RT	-	-	-	-	-	-	-	2	-	-	-	-	-	ATTACHED TO LIGHT POLE
3-17	BELOIT ROAD	27+22	LT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
3-18	BELOIT ROAD	27+25	RT	S1-1	-	36	X 36	6.8	-	-	-	-	1	-	1	-	-
3-19	BELOIT ROAD	27+25	RT	S16-9P	-	30	X 18	3.8	-	-	-	-	-	-	-	-	ON POLE WITH 3-18
3-20	BELOIT ROAD	27+31	LT	R3-17	-	30	X 24	5.0	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE
3-21	BELOIT ROAD	28+14	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
3-22	BELOIT ROAD	28+34	LT	-	-	-	-	-	-	-	4	-	-	-	-	-	ATTACHED TO LIGHT POLE
3-23	BELOIT ROAD	28+43	RT	R3-17	-	30	X 24	5.0	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE
3-24	BELOIT ROAD	28+43	RT	-	-	-	-	-	-	1	-	-	-	-	-	-	ATTACHED TO LIGHT POLE, ON LIGHT POLE WITH 3-23
3-25	BELOIT ROAD	28+63	RT	-	-	-	-	-	-	-	1	-	-	-	-	-	ATTACHED TO LIGHT POLE
3-26	BELOIT ROAD	28+96	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
3-27	BELOIT ROAD	29+42	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
3-28	BELOIT ROAD	29+57	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
3-29	BELOIT ROAD	29+70	RT	-	-	-	-	-	-	-	1	-	-	-	-	-	ATTACHED TO LIGHT POLE
3-30	BELOIT ROAD	29+95	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	
3-31	BELOIT ROAD	29+96	RT	S1-1	-	36	X 36	6.8	-	-	-	-	1	-	1	-	-
3-32	BELOIT ROAD	29+96	RT	S16-7L	-	30	X 18	3.8	-	-	-	-	-	-	-	-	ON POLE WITH 3-32

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

TYPE II SIGNS

SIGN NO.	LOCATION	STATION		SIGN CODE	MESSAGE	SIZE		637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SPV.0060.04 ROUND STEEL SIGN POST SYSTEM EACH	POLE HEIGHT FOR INFORMATION ONLY CONTRACTOR TO VERIFY POLE HEIGHT WITH MUTCD REQUIREMENTS PRIOR TO ORDERING			REMARKS
														10 ft	12 ft	14 FT	
3-33	BELOIT ROAD	29+97	RT	R5-2	-	24	X 24	4.0	-	-	-	-	1	-	1	-	-
3-34	BELOIT ROAD	29+98	RT	R1-1	-	30	X 30	5.2	-	-	-	-	1	-	1	-	-
3-35	BELOIT ROAD	30+54	RT	-	-	-	-	-	-	2	-	-	-	-	-	-	ATTACHED TO LIGHT POLE, ON POLE WITH 3-38
3-36	BELOIT ROAD	30+54	RT	-	-	-	-	-	-	-	2	1	-	-	-	-	-
3-37	BELOIT ROAD	30+54	RT	R1-1	-	30	X 30	5.2	-	-	-	-	1	-	1	-	-
3-38	BELOIT ROAD	30+57	LT	-	-	-	-	-	-	-	2	1	-	-	-	-	-
3-39	BELOIT ROAD	30+60	LT	R1-1	-	30	X 30	5.2	-	-	-	-	1	-	1	-	-
3-40	BELOIT ROAD	30+60	LT	-	-	-	-	-	-	2	-	-	-	-	-	-	ATTACHED TO LIGHT POLE, ON POLE WITH 3-40
3-41	BELOIT ROAD	30+93	RT	R2-1	-	24	X 30	5.0	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE
3-42	BELOIT ROAD	31+31	LT	S1-1	-	36	X 36	6.8	-	-	-	-	1	-	1	-	-
3-43	BELOIT ROAD	31+31	LT	S16-7L	-	30	X 18	3.8	-	-	-	-	-	-	-	-	ON POLE WITH 3-43
4-1	BELOIT ROAD	33+43	RT	-	-	-	-	-	-	1	-	-	-	-	-	-	ATTACHED TO LIGHT POLE, ATTACH TO LIGHT POLE
4-2	BELOIT ROAD	33+58	LT	-	-	-	-	-	-	1	1	-	-	-	-	-	ON POLE WITH 4-3
4-3	BELOIT ROAD	33+58	LT	S1-1	-	36	X 36	6.8	-	-	-	-	1	-	1	-	-
4-4	BELOIT ROAD	33+58	LT	S16-9P	-	30	X 18	3.8	-	-	-	-	-	-	-	-	ON POLE WITH 4-3
4-5	BELOIT ROAD	34+08	LT	-	-	-	-	-	-	2	-	-	-	-	-	-	ATTACHED TO LIGHT POLE, ON POLE WITH 4-6
4-6	BELOIT ROAD	34+08	RT	R1-1	-	30	X 30	5.2	-	-	-	-	1	-	1	-	-
4-7	BELOIT ROAD	34+09	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
4-8	BELOIT ROAD	34+81	LT	R2-1	-	24	X 30	5.0	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE
4-9	BELOIT ROAD	35+99	LT	-	-	-	-	-	-	-	1	-	-	-	-	-	ATTACHED TO LIGHT POLE
5-1	BELOIT ROAD	37+10	RT	-	-	-	-	-	-	-	1	-	-	-	-	-	ATTACHED TO LIGHT POLE
5-2	BELOIT ROAD	37+26	LT	R3-17	-	30	X 24	5.0	-	-	-	-	1	-	1	-	ATTACH TO LIGHT POLE
5-3	BELOIT ROAD	37+26	LT	R7-5R (MOD)	TWO HOUR PARKING 8AM TO 4PM, MON-FRI	12	X 18	1.5	-	-	-	-	-	-	-	-	ON POLE WITH 5-2
5-4	BELOIT ROAD	37+27	RT	R5-2	-	24	X 24	4.0	-	-	-	-	1	-	1	-	-
5-5	BELOIT ROAD	37+31	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
5-6	BELOIT ROAD	37+58	LT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
5-7	BELOIT ROAD	37+84	RT	R1-1	-	30	X 30	5.2	-	-	-	-	1	-	1	-	
5-8	BELOIT ROAD	37+84	RT	-	-	-	-	-	-	2	1	1	-	-	-	-	ON POLE WITH SIGN 5-7
5-9	BELOIT ROAD	38+43	RT	R3-17	-	30	X 24	5.0	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE
5-10	BELOIT ROAD	38+43	RT	R7-5D (MOD)	TWO HOUR PARKING 8AM TO 4PM, MON-FRI	12	X 18	1.5	-	-	-	-	-	-	-	-	ON POLE WITH SIGN 5-9
5-11	BELOIT ROAD	38+49	LT	R7-5D (MOD)	TWO HOUR PARKING 8AM TO 4PM, MON-FRI	12	X 18	1.5	-	-	-	-	1	1	-	-	-
5-12	BELOIT ROAD	38+71	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
5-13	BELOIT ROAD	39+11	LT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
5-14	BELOIT ROAD	39+71	LT	-	-	-	-	-	-	1	-	-	-	-	-	-	ATTACHED TO LIGHT POLE, ATTACH TO LIGHT POLE
5-15	BELOIT ROAD	39+75	LT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
5-16	BELOIT ROAD	39+75	LT	R1-1	-	30	X 30	5.2	-	-	-	-	1	-	1	-	-
5-17	BELOIT ROAD	39+75	RT	-	-	-	-	-	-	2	-	-	-	-	-	-	ATTACHED TO LIGHT POLE, ON LIGHT POLE WITH SIGN 5-16
5-18	BELOIT ROAD	39+99	LT	-	-	-	-	-	-	-	1	-	-	-	-	-	-
5-19	BELOIT ROAD	39+99	LT	R7-1D	-	12	X 18	1.5	-	-	-	-	-	-	-	-	ATTACH TO POLE 5-18 THAT WAS ATTACHED TO
5-20	BELOIT ROAD	40+05	RT	R7-5D (MOD)	TWO HOUR PARKING 8AM TO 4PM, MON-FRI	12	X 18	-	-	-	-	-	1	1	-	-	-
5-21	BELOIT ROAD	40+29	LT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
5-22	BELOIT ROAD	40+93	RT	-	-	-	-	-	-	1	-	-	-	-	-	-	ATTACHED TO LIGHT POLE
5-23	BELOIT ROAD	41+08	RT	R5-2	-	24	X 24	4.0	-	-	-	-	1	-	1	-	-
5-24	BELOIT ROAD	41+12	LT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
5-25	BELOIT ROAD	41+44	LT	-	-	-	-	-	-	-	2	-	-	-	-	-	ATTACHED TO LIGHT POLE
5-26	BELOIT ROAD	41+69	LT	-	-	-	-	-	-	2	-	-	-	-	-	-	ATTACHED TO LIGHT POLE, ON POLE WITH 5-27
5-27	BELOIT ROAD	41+69	RT	R1-1	-	30	X 30	-	-	-	-	-	1	-	1	-	-
5-28	BELOIT ROAD	41+73	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
5-29	BELOIT ROAD	41+96	LT	R7-51L	-	12	X 18	1.5	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE

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TYPE II SIGNS

SIGN NO.	LOCATION	STATION		SIGN CODE	MESSAGE	SIZE		637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SPV.0060.04 ROUND STEEL SIGN POST SYSTEM EACH	POLE HEIGHT FOR INFORMATION ONLY CONTRACTOR TO VERIFY POLE HEIGHT WITH MUTCD REQUIREMENTS PRIOR TO ORDERING			REMARKS
														10 ft	12 ft	14 FT	
6-1	BELOIT ROAD	42+56	RT	W10-1	-	36	X 36	-	7.1	-	-	-	1	-	1	-	
6-2	BELOIT ROAD	42+71	RT	-	-	-	-	-	-	-	3	-	-	-	-	-	ATTACHED TO LIGHT POLE
6-3	BELOIT ROAD	43+43	RT	R2-1	-	24	X 30	5.0	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE
6-4	BELOIT ROAD	46+35	LT	-	-	-	-	-	-	-	2	-	-	-	-	-	ATTACHED TO LIGHT POLE
6-5	BELOIT ROAD	46+86	LT	R2-1	-	24	X 30	5.0	-	-	-	-	-	-	-	-	ATTACH TO LIGHT POLE
6-6	BELOIT ROAD	46+86	LT	R7-1D	-	12	X 18	1.5	-	-	-	-	-	-	-	-	ON LIGHT POLE WITH 6-11
6-7	BELOIT ROAD	47+23	LT	W10-1	-	36	X 36	-	7.1	-	-	-	1	-	1	-	
6-8	BELOIT ROAD	47+66	RT	-	-	-	-	-	-	-	1	-	-	-	-	-	ATTACHED TO LIGHT POLE
7-1	BELOIT ROAD	48+34	RT	R3-17, R3-17B	-	30	X 36	7.5	-	-	-	-	-	-	-	-	-
7-2	BELOIT ROAD	48+34	RT	R7-1D	-	12	X 18	1.5	-	-	-	-	-	-	-	-	ATTACHED TO LIGHT POLE, ON POLE WITH 7-1
7-3	BELOIT ROAD	48+70	LT	-	-	-	-	-	-	-	2	-	-	-	-	-	ATTACHED TO LIGHT POLE
7-4	BELOIT ROAD	48+95	RT	-	-	-	-	-	-	-	1	1	-	-	-	-	-
7-5	BELOIT ROAD	49+36	LT	R3-17	-	30	X 24	5.0	-	-	-	-	1	-	1	-	ATTACH TO LIGHT POLE
7-6	BELOIT ROAD	49+36	LT	R7-1D	-	12	X 18	1.5	-	-	-	-	-	-	-	-	ON LIGHT POLE WITH 7-5
						TOTAL		225.5	23.1	26	69	30	30	5	25	0	

TRAFFIC CONTROL

LOCATION	643.5000 EACH
BELOIT ROAD	1
PROJECT TOTAL	1

FIELD OFFICE TYPE D

LOCATION	642.5401 EACH
BELOIT ROAD	1
PROJECT TOTAL	1

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TRAFFIC CONTROL

LOCATION	DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II NO.	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE) LF
STAGE 1	201	27	5,427	20	4,020	37	7,437	80	16,080	7	1,407	142	28,542	10	1	10	14	181
SIDEWALK CONSTRUCTION	10	223	2,230															
PROJECT TOTALS			7,657		4,020		7,437		16,080		1,407		28,542			10	14	181

TEMPORARY PEDESTRIAN ACCOMMODATIONS

STREET	644.1430 TEMPORARY PEDESTRIAN SURFACE PLATE SF	644.1440 TEMPORARY PEDESTRIAN SURFACE MATTING SF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
BELOIT STAGE 1	-	1100	-	5300
SIDEWALK CONSTRUCTION	480	-	120	4100
PROJECT TOTAL	480	1100	120	9400

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FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

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PAVEMENT MARKING

STREET	FROM		TO	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH SOLID WHITE LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH SOLID YELLOW LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH SKIP-DASH (37.5'X12.5') WHITE LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH SKIP-DASH (9'X 3') WHITE LF	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH WHITE (SOLID) LF	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH SKIP-DASH (9'X 3') WHITE LF	646.5020 MARKING ARROW EPOXY WHITE EACH	646.5320 MARKING RAILROAD CROSSINGS EPOXY WHITE EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	646.7020 MARKING DIAGONAL EPOXY 6-INCH WHITE LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH WHITE LF
W. BELOIT RD	15+50	-	20+00	271	310	104	0	0	0	0	0	97	443	0	672
W. BELOIT RD	20+00	-	25+50	2007	931	0	145	0	0	0	0	0	0	0	226
W. BELOIT RD	25+50	-	31+50	1799	898	0	474	0	0	0	0	0	0	0	846
W. BELOIT RD	31+50	-	37+00	2005	931	0	145	0	0	0	0	0	0	0	253
W. BELOIT RD	37+00	-	42+50	1618	744	0	455	0	0	0	0	0	0	0	592
W. BELOIT RD	42+50	-	48+00	1207	2071	0	0	0	0	0	2	0	0	187	0
W. BELOIT RD	48+00	-	54+00	765	704	0	0	250	125	4	0	62	0	0	0
			SUB TOTAL	9672	6589	104	1219	250	125	4	2	159	443	187	2589
			PROJECT TOTAL	17584				375		4	2	159	443	187	2589

PAVEMENT MARKING

STREET	FROM		TO	CAT 0020 SPV.0060.06 MARKING SYMBOL GROOVED BIKE LANE PREFORMED THERMOPLASTIC WHITE EACH	CAT 0020 SPV.0060.07 MARKING ARROW GROOVED BIKE LANE PREFORMED THERMOPLASTIC WHITE EACH	CAT 0010 SPV.0165.01 HIGH FRICTION GREEN SURFACING GREEN SF
W. BELOIT RD	15+50	-	20+00	3	2	250
W. BELOIT RD	20+00	-	25+50	4	4	590
W. BELOIT RD	25+50	-	31+50	6	7	1240
W. BELOIT RD	31+50	-	37+00	6	5	770
W. BELOIT RD	37+00	-	42+50	6	6	897
W. BELOIT RD	42+50	-	48+00	0	0	0
W. BELOIT RD	48+00	-	54+00	4	2	593
			PROJECT TOTAL	29	26	4340

MARKING REMOVALS

STREET	STATION	TO	STATION	646.9010 MARKING REMOVAL LINE WATER BLASTING 4-INCH LF	646.9110 MARKING REMOVAL LINE WATER BLASTING 8-INCH LF	646.9210 MARKING REMOVAL LINE WATER BLASTING WIDE LF
W. BELOIT RD	15+50	-	20+00	6	160	39
W. BELOIT RD	20+00	-	25+50	-	-	-
W. BELOIT RD	25+50	-	31+50	-	-	-
W. BELOIT RD	31+50	-	37+00	370	-	-
W. BELOIT RD	37+00	-	42+50	-	-	-
W. BELOIT RD	42+50	-	48+00	-	-	-
W. BELOIT RD	48+00	-	54+00	246	-	22
PROJECT TOTAL				622	160	61

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CONSTRUCTION STAKING MAINLINE ITEMS

ITEM	QUANTITY	UNIT	DESCRIPTION
650.4000	53	EACH	CONSTRUCTION STAKING STORM SEWER
650.4500	2,912	LF	CONSTRUCTION STAKING SUBGRADE
650.5500	6,770	LF	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER
650.7000	2,912	LF	CONSTRUCTION STAKING CONCRETE PAVEMENT
650.8501	1	EACH	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (2525-03-71)
650.9000	48	EACH	CONSTRUCTION STAKING CURB RAMPS
650.9500	1	EACH	CONSTRUCTION STAKING SIDEWALK (2525-03-71)
650.9911	1	EACH	CONSTRUCTION STAKING SUPLEMENTAL CONTROL (2525-03-71)
650.9920	2,912	LF	CONSTRUCTION STAKING SLOPE STAKES

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LIGHTING REMOVAL

		204.9060.S.04 REMOVING LIGHTING UNITS	*204.0195 REMOVING CONCRETE BASES	659.5000.S LAMP, BALLAST, LED, SWITCH DISPOSAL BY CONTRACTOR
STATION	OFFSET	EACH	EACH	EACH
18+54	RT	1	-	1
20+04	LT	1	1	1
21+45	RT	1	1	1
23+16	LT	1	1	1
24+30	RT	1	1	1
25+77	LT	1	1	1
27+20	RT	1	1	1
28+34	LT	1	1	1
29+89	RT	1	1	1
31+37	LT	1	1	1
32+66	RT	1	1	1
33+59	LT	1	1	1
34+76	RT	1	1	1
35+99	LT	1	1	1
36+63	RT	1	1	1
37+10	RT	1	1	1
38+46	LT	1	1	1
39+99	RT	1	1	1
41+44	LT	1	1	1
42+71	RT	1	1	1
46+35	LT	1	1	1
47+66	RT	1	1	1
48+70	LT	1	1	1
179+40	RT	1	1	1
221+17	LT	1	1	1
	TOTALS	25	24	25

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE**

ALL ITEMS CATEGORY 0010
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STREET LIGHTING WIRING AND CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NON-METALLIC SCHEDULE 40 2-INCH LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG (UNDERGROUND PHASE AND NEUTRAL WIRES) LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG (UNDERGROUND GROUND WIRES) LF
C B/1 6730	C B/1 6700	264	528	264
C B/1 6700	C B/1 6620	264	528	264
C B/1 6620	C B/1 6603	264	528	264
C B/1 6603	C B/1 2193	257	514	257
PB4	C B/1 6530	84	168	84
C B/1 6530	LCC B	25	50	25
PB6	LCC B	29	58	29
PB5	STUBOUT - W. GRANT ST. (LT)	74	-	-
PB5	STUBOUT - S. 65TH ST. (LT)	573	-	-
C B/1 6530	C B/1 6510	264	528	264
C B/1 6510	C B/1 6424	259	518	259
C B/1 6424	C B/1 6334	269	538	269
C B/1 6334	C B/1 6300	254	508	254
C B/1 6300	C B/1 6232	264	528	264
C B/1 6232	C B/1 6200	240	480	240
PB7	STUBOUT - W. MC GEOCH AVE. (RT)	113	-	-
PB8	STUBOUT - W. MC GEOCH AVE. (LT)	66	132	66
C B/1 6200	EXISTING C B/1 6126	234	468	234
C A/1 6036	C A/1 6020	259	518	259
C A/1 6020	CONDUIT CONECTION	21	42	21
C A/1 6020	EXISTING POLE CA01955	0	472	236
C B/2 6721	C B/2 6709	208	416	208
C B/2 6709	C B/2 6631	258	-	-
PB1	STUBOUT - S. 67TH ST. (RT)	72	144	72
C B/2 6631	C B/2 6603	254	-	-
PB2	STUBOUT - S. 66TH ST. (LT)	60	120	60
C B/2 6603	PB3	150	300	150
PB3	PB6	67	134	67
PB3	C B/2 6505	121	242	121
C B/2 6505	C B/2 6433	264	528	264
C B/2 6433	C B/2 6403	264	528	264
C B/2 6403	C B/2 6313	269	538	269
C B/2 6319	C B/2 6231	259	518	259
C B/2 6231	C B/2 6201	264	528	264
C B/2 6201	C B/2 6127	259	518	259
EXISTING C A/5 6047	C A/5 6023	300	600	300
C A/5 6023	CONDUIT CONECTION	131	262	131
C A/5 6023	EXISTING POLE CA02031	0	952	476
	SUB TOTAL	7,277	13,434	6,717
	TOTAL	7,277	20,151	

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

PULL BOXES

DESCRIPTION	STATION	OFFSET	653.0135 STEEL 24X36-INCH EACH
PB1	22+62.35	26.5' RT	1
PB2	25+98.50	27.1' RT	1
PB3	27+30.00	26.5' RT	1
PB4	26+52.00	26.90' LT	1
PB5	221+04.65	17.5' RT	1
PB6	27+18.50	26.9' LT	1
PB7	39+66.50	26.5' LT	1
PB8	40+38.50	38.50' LT	1
			8

ELECTRICAL WIRE LIGHTING

DESCRIPTION	*655.0610 ELECTRICAL WIRE LIGHTING 12 AWG (POLE PHASE AND NEUTRAL WIRES) LF	*655.0610 ELECTRICAL WIRE LIGHTING 12 AWG (POLE GROUND WIRES) LF
C B/2 6721	82	41
C B/1 6730	82	41
C B/2 6709	82	41
C B/1 6700	82	41
C B/2 6631	82	41
C B/1 6620	82	41
C B/2 6603	82	41
C B/1 6603	82	41
C B/1 2193	82	41
C B/1 5530	82	41
C B/2 6505	82	41
C B/1 6510	82	41
C B/2 6433	82	41
C B/1 6424	82	41
C B/2 6403	82	41
C B/1 6334	82	41
C B/2 6313	82	41
C B/1 6300	82	41
C B/2 6231	82	41
C B/1 6232	82	41
C B/2 6201	82	41
C B/1 6200	82	41
C B/2 6127	82	41
EXISTING C B/1 6126	0	0
EXISTING C A/5 6047	0	0
C A/1 6036	82	41
C A/5 6023	82	41
C A/1 6020	82	41
SUBTOTAL	2,132	1,066
TOTAL	3,198	

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

				LUMINAIRE AND POLE MOUNTINGS				
				654.0105	657.0255	657.0322	657.0610	659.1125*
				CONCRETE BASES TYPE 5	TRANSFORMER BASES BREAKAWAY $11^{1}/_{2}$ INCH BOLT CIRCLE	POLES TYPE 5-ALUMINUM (30-FOOT)	LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6 FT	LUMINAIRES UTILITY LED C
DESCRIPTION	STATION	OFFSET		EACH	EACH	EACH	EACH	EACH
C B/2 6721	19+16.50	26.5'	RT	1	1	1	1	1
C B/1 6730	19+80.00	26.5'	LT	1	1	1	1	1
C B/2 6709	21+10.00	26.5'	RT	1	1	1	1	1
C B/1 6700	22+30.00	26.5'	LT	1	1	1	1	1
C B/2 6631	23+54.00	26.5'	RT	1	1	1	1	1
C B/1 6620	24+80.00	26.5'	LT	1	1	1	1	1
C B/2 6603	25+94.00	26.5'	RT	1	1	1	1	1
C B/1 6603	179+68.24	18.0'	RT	1	1	1	1	1
C B/1 2193	221+16.00	18.0'	LT	1	1	1	1	1
C B/1 5530	27+30.00	26.5'	LT	1	1	1	1	1
C B/2 6505	28+45.00	26.5'	RT	1	1	1	1	1
C B/1 6510	29+75.00	26.5'	LT	1	1	1	1	1
C B/2 6433	30+95.00	26.5'	RT	1	1	1	1	1
C B/1 6424	32+25.00	26.5'	LT	1	1	1	1	1
C B/2 6403	33+45.00	26.5'	RT	1	1	1	1	1
C B/1 6334	34+80.00	26.5'	LT	1	1	1	1	1
C B/2 6313	36+00.00	26.5'	RT	1	1	1	1	1
C B/1 6300	37+20.00	26.5'	LT	1	1	1	1	1
C B/2 6231	38+45.00	26.5'	RT	1	1	1	1	1
C B/1 6232	39+69.70	26.5'	LT	1	1	1	1	1
C B/2 6201	40+95.00	26.5'	RT	1	1	1	1	1
C B/1 6200	41+95.00	26.5'	LT	1	1	1	1	1
C B/2 6127	43+44.00	26.5'	RT	1	1	1	1	1
EXISTING C B/1 6126	44+14.00	25.0'	LT	0	0	0	0	0
EXISTING C A/5 6047	45+50.00	25.0'	RT	0	0	0	0	0
C A/1 6036	46+90.00	25.5'	LT	1	1	1	1	1
C A/5 6023	48+35.00	26.0'	RT	1	1	1	1	1
C A/1 6020	49+35.00	26.0'	LT	1	1	1	1	1
SPARE				1	1	1	1	1
			TOTALS	27	27	27	27	27

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

3

LIGHTING CONTROL CABINETS

STREET	STATION	OFFSET	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	656.0201 ELECTRICAL SERVICE METER BREAKER PEDESTAL STA 27+30 EACH	659.2230 LIGHTING CONTROL CABINETS 240/480 30-INCH EACH
W. BELOIT RD.	27+30.00	37.0' LT	1	1	1
		TOTAL	1	1	1

3

SAWCUTTING

STREET	STATION	TO	STATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF
W. BELOIT RD	17+00	-	20+00	152	235
W. BELOIT RD	20+00	-	25+50	0	229
W. BELOIT RD	25+50	-	31+50	174	458
W. BELOIT RD	31+50	-	37+00	99	143
W. BELOIT RD	37+00	-	42+50	62	227
W. BELOIT RD	42+50	-	48+00	197	458
W. BELOIT RD	48+00	-	50+00	190	60
			PROJECT TOTAL	874	1,810

MISCELLANEOUS LANDSCAPING QUANTITIES

LOCATION	CATEGORY 0010 632.9101 LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES EACH	CATEGORY 0020 SPV.0060.08 BENCH EACH	CATEGORY 0020 SPV.0060.09 TRASH RECEPTACLE EACH	CATEGORY 0020 SPV.0060.10 RECYCLING RECEPTACLE EACH	CATEGORY 0020 SPV.0060.11 BICYCLE RACK EACH	CATEGORY 0020 SPV.0090.05 DECORATIVE FENCE LF
PROJECT ID 2525-03-71	15	3	1	1	1	207
PROJECT TOTAL:	15	3	1	1	1	207

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

STORM SEWER SERVICES

STATION	LOCATION	SPV.0060.03 STORM SEWER RECONNECT EACH	SPV.0090.01 6-INCH PVC STORM SEWER LATERAL L.F.	SPV.0090.02 8-INCH PVC STORM SEWER LATERAL L.F.	SPV.0090.03 12-INCH PVC STORM SEWER LATERAL L.F.
20+24	LT	1	-	6	-
21+25	LT	1	6	-	-
22+58	LT	1	-	27	-
22+78	RT	1	25	-	-
23+44	LT	1	50	-	-
23+87	LT	-	50	-	-
24+59	LT	-	50	-	-
25+10	LT	-	50	-	-
26+50	RT	1	13	-	-
27+56	LT	-	27	-	-
27+87	LT	-	28	-	-
28+12	RT	1	-	27	-
28+39	LT	-	27	-	-
29+64	LT	-	27	-	-
29+96	LT	-	27	-	-
30+15	RT	-	33	-	-
31+61	RT	-	27	-	-
31+82	RT	-	27	-	-
32+06	LT	1	6	-	-
32+45	RT	-	27	-	-
32+69	LT	1	6	-	-
32+74	RT	-	27	-	-
32+84	LT	-	27	-	-
33+13	RT	-	27	-	-
33+36	LT	-	6	-	-
33+62	LT	-	27	-	-
34+00	LT	-	27	-	-
34+41	LT	-	27	-	-
34+82	RT	-	27	-	-
35+16	LT	-	27	-	-
35+32	LT	-	27	-	-
35+38	RT	1	27	-	-
35+90	LT	-	27	-	-
36+05	LT	-	27	-	-
36+05	RT	-	27	-	-
36+15	RT	-	27	-	-
36+44	LT	-	27	-	-
36+47	RT	-	27	-	-
36+86	RT	1	27	-	-
37+03	LT	1	6	-	-
37+23	LT	-	27	-	
37+65	LT	-	27	-	-
38+26	LT	1	6	-	-
38+75	LT	1	6	-	-
38+79	RT	-	27	-	-
39+31	RT	-	4	-	-
39+94	RT	1	4	-	-
42+29	LT	1	-	-	19
42+39	LT	-	-	6	-
46+55	LT	1	55	-	-
48+22	LT	1	55	-	-
	PROJECT TOTALS	18	1188	66	19

ALL ITEMS CATEGORY 0010
UNLESS OTHERWISE NOTED

INTERSECTION OF
W. LINCOLN AVENUE & W. BELOIT ROAD
ALL ITEMS CATEGORY 0010

REMOVING CONCRETE BASES

EXISTING BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
SB10	1
*** TOTAL	1

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVING TRAFFIC SIGNALS - W LINCOLN AVE & W BELOIT RD

LOCATION	204.9060.S.03 REMOVING TRAFFIC SIGNALS EACH
W LINCOLN AVE & W BELOIT RD	1
TOTAL	1

CABLE TYPE UF 2-10 AWG GROUNDED
ELECTRICAL WIRE LIGHTING 12 AWG

		655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB11	SB10A	158	--
SB10A	LUMIN	--	125
	TOTAL	158	125

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CONCRETE BASES TYPE 1
CONCRETE BASES TYPE 10

BASE NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	654.0110 CONCRETE BASES TYPE 10 EACH
SB10A	18+16.3	30.9' RT		1
SB10B	18+13.1	43.2' RT	1	
		*** TOTAL	1	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CABLE TRAFFIC SIGNAL 5-14 AWG
CABLE TRAFFIC SIGNAL 7-14 AWG

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB8	HEAD 30	21	
SB10A	HEAD 2	48	
SB10A	HEAD 3	38	
SB10A	HEAD 26	15	
SB10B	HEAD 7	21	
SB10B	HEAD 15		22
SB10B	HEAD 26	15	
	*** TOTAL	137	22

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SHEET 1 OF 2

INTERSECTION OF
W. LINCOLN AVENUE & W. BELOIT ROAD
ALL ITEMS CATEGORY 0010

3

ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
SB9	SB10A	108
SB10A	SB10B	39
SB10B	SB11	151
PB7	SB10B	24
	TOTAL	322

TRAFFIC SIGNAL FACE 3S 12-INCH

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH
30	SB8	1
	TOTAL	1

SALVAGE AND REINSTALL EMERGENCY PREEMPTION DETECTOR

LOCATION	SPV.0060.33 SALVAGE AND REINSTALL EMERGENCY PREEMPTION DETECTOR EACH
W LINCOLN AVE & W BELOIT RD	1
TOTAL	1

3

PEDESTAL BASES
TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT
LUMINAIRE ARMS STEEL 10-FT
LUMINAIRES UTILITY LED C
RELOCATE MONOTUBE ASSEMBLY

SIGNAL BASE NO.	* 657.0100 PEDESTAL BASES EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0810 LUMINAIRE ARMS STEEL 10-FT EACH	* 659.1125 LUMINAIRES UTILITY LED C EACH	SPV.0060.29 RELOCATE MONOTUBE ASSEMBLY EACH
SB10A			1	1	1
SB10B	1	1			
TOTAL	1	1	1	1	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SIGNAL MOUNTING HARDWARE, W LINCOLN AVE & W BELOIT RD
SALVAGE AND REINSTALL PUSH BUTTONS
SALVAGE AND REINSTALL SIGNAL HEADS

LOCATION	658.5070.01 SIGNAL MOUNTING HARDWARE EACH	SPV.0060.30 SALVAGE AND REINSTALL PUSH BUTTONS EACH	SPV.0060.31 SALVAGE AND REINSTALL SIGNAL HEADS EACH
W LINCOLN AVE & W BELOIT RD	1	2	6
*** TOTAL	1	2	6

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SHEET 2 OF 2

PROJECT NO: 2525-03-71	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET: 165	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

3

REMOVING TRAFFIC SIGNALS - S 60TH ST & W BELOIT RD

LOCATION	204.9060.S.02 REMOVING TRAFFIC SIGNALS EACH
S 60TH ST & W BELOIT RD	1
TOTAL	1

PEDESTAL BASES
TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT

SIGNAL BASE NO.	* 657.0100 PEDESTAL BASES EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH
SB3	1	1
SB8	1	1
TOTAL	2	2

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

INTERSECTION OF
S. 60TH STREET & W. BELOIT ROAD
ALL ITEMS CATEGORY 0010

3

CABLE TRAFFIC SIGNAL 5-14 AWG
CABLE TRAFFIC SIGNAL 7-14 AWG

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB3	HEAD 7	19	
SB3	HEAD 11		23
SB3	HEAD 16	15	
SB4	HEAD 12		23
SB7	HEAD 8		23
SB8	HEAD 9		23
SB8	HEAD 18	15	
	*** TOTAL	49	92

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC SIGNAL FACE 5S 12-INCH

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0175 TRAFFIC SIGNAL FACE 5S 12-INCH EACH
8	SB7	1
9	SB8	1
11	SB3	1
12	SB4	1
	TOTAL	4

SHEET 1 OF 2

PROJECT NO: 2525-03-71	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET: 166	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

3

3

VEHICLE VIDEO DETECTION SYSTEM, S 60TH ST & W BELOIT RD (2 CAMERA)

LOCATION	SPV.0060.32 VEHICLE VIDEO DETECTION SYSTEM 2 CAMERA EACH
S 60TH ST & W BELOIT RD	1
TOTAL	1

CAMERA	INSTALLATION METHOD
V1 (SB4)	ON LUMINAIRE ARM
V2 (SB7)	ON LUMINAIRE ARM

SIGNAL MOUNTING HARDWARE, S 60TH ST & W BELOIT RD
SALVAGE AND REINSTALL PUSH BUTTONS
SALVAGE AND REINSTALL SIGNAL HEADS

LOCATION	658.5070.02 SIGNAL MOUNTING HARDWARE EACH	SPV.0060.30 SALVAGE AND REINSTALL PUSH BUTTONS EACH	SPV.0060.31 SALVAGE AND REINSTALL SIGNAL HEADS EACH
S 60TH ST & W BELOIT RD	1	2	2
*** TOTAL	1	2	2

*** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

SANITARY SEWER STRUCTURES

STRUCTURE NUMBER	STATION	LOCATION		**SPV.0200.01** SANITARY MANHOLE 48" DIA. VERT. FT.	**SPV.0060.12** INTERNAL SANITARY MANHOLE SEAL EACH	**SPV.0060.13** ADJUST SANITARY MANHOLE FRAME EACH	**SPV.0060.14** SANITARY MH FRAMES W/ SOLID GASKETTED LID EACH	**SPV.0060.15** SANITARY MANHOLE ABANDONMENT EACH	**SPV.0060.16** SANITARY MANHOLE BENCH REPAIR EACH	**SPV.0060.17** SANITARY MANHOLE 8" CORE EACH	RIM ELEV.	STRUCTURE BOTTOM ELEV.	ADDRESS
S1	100+41.4	0.4	RT	9.88	1	1	1				154.64	144.76	On 67th Pl North of Beloit
S2	21+15.2	12.0	RT	12.14	1	1	1				154.84	142.70	Beloit & 67th Pl
S3	22+50.2	12.0	RT	13.10	1	1	1				155.05	141.95	Beloit & 67th St
S4	26+48.8	12.0	RT	13.06	1	1	1				152.81	139.75	Beloit & 66th St
S5	179+42.5	0.8	LT	10.53	1	1	1				149.73	139.20	On W. Grant St.
S6	28+17.7	12.4	RT	12.43	1	1	1				147.13	134.70	Beloit & Grant St
S7	30+50.8	12.1	RT	11.89	1	1	1				139.84	127.95	Beloit & 65th St
S8	231+10.2	0.3	RT	11.36	1	1	1				138.96	127.60	On 65th St North of Beloit
S9	34+02.2	12.1	RT	12.30	1	1	1				130.80	118.50	Beloit & 64th St
S10	37+82.3	12.1	RT	14.33	1	1	1				122.18	107.85	Beloit & 63rd St
S11	40+27.9	12.2	RT	0.00	1	1	1						Beloit & Mobile St - North of Beloit
S12	41+64.4	11.7	RT	0.00	1	1	1						Beloit & Mobile St - On Beloit
S13	44+22.8	11.7	RT	0.00	1	1	1						On Beloit between Mobile St and 60th St
S14	45+96.4	1.3	RT	13.21	1	1	1				114.56	101.35	Beloit & 60th St
S15	49+06.4	1.2	RT	0.00	1	1	1			1			
S16	48+87.5	25.1	LT	0.00	1	1	1		1				
S17	48+00.8	14.2	LT	0.00				1					
S18	19+05.7	14.7	RT	0.00				1					
S19	20+69	14.0	RT	0.00				1					
S20	230.43.7	0.3	LT	0.00				1					
	PROJECT TOTALS			135	16	16	16	4	1	1			

SANITARY SEWER PIPES

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	**SPV.0060.18** SANITARY SEWER SPOT RELAY SDR 35 15-INCH EACH	**SPV.0090.06** SANITARY SEWER RELAY SDR 35 PVC 8-INCH LF	**SPV.0090.07** SANITARY SEWER LINING CIPP 12-INCH LF	**204.0291.S*** ABANDONING SEWER CY
S1	C1		51		
S2	S3		135		
C2	S3		67		
S3	S4		398.7		
C3	S4		78.5		
S5	S6		188.1		
S4	S6		168.8		
S6	S7		233.1		
C4	S7		107.6		
S7	S9		351.4		
C5	S9		68		
S9	S10		380.1		
S14	S15		310.0		
S16	S15	1			
EX1	S16			459.6	
S18	S2				3.9
SW/O S17	NE/O S17				5.6
S20	S8				0.7
	PROJECT TOTALS	1	2538	460	11

*Additional Quantities Shown Elsewhere

ALL CATEGORY 0010

BUILDING SANITARY SEWER

STATION	LOCATION	**SPV.0090.08** BUILDING SANITARY SEWER 6-INCH LF	**SPV.0060.19** BUILDING SANITARY SEWER RECONNECT 8-INCH EACH	**SPV.0060.28** INSTALL PLUG AT SANITARY WYE EACH	ADDRESS
100+41.1	LT	25.5			#6754
100+90.5	LT	27			#2255 S. 67 Pl.
21+20.3	RT	17			#6709-11
21+50.9	RT	17			#6701-05
21+70.7	LT		1		#6700
22+97.1	RT	17			#6639
23+63.4	RT	17			#6631-33
24+08.3	RT	17			#6625
24+50.7	LT	41			#6626
24+50.7	RT	17			#6617
24+91.2	LT	41			#6620-22
25+26.6	RT	17			#6909-11
26+98.4	RT	17			#6535
27+50.5	RT	17			#6521
28+91.9	LT	41			#6524
29+85.2	LT	41			#6510
30+37.8	LT	41			#6500
31+47.8	RT	17			#6427-29
31+88	RT	17			#6416 W.Grant St.
32+30.3	RT	17			#6415
32+32.4	LT	41			#6424
32+53.6	LT	41			#6418-08A
32+91.7	RT	17			#6407-09
32+94.4	LT	41			#6412
33+32.2	RT	17			#6403
33+34.6	LT	41			#6408
33+69	LT	41			#6402
34+15.7	LT	41			#6346
34+49.7	RT	17			#6339
34+52.1	LT	41			#6340
34+99.9	RT	17			#6331
35+02.4	LT	41			#6334
35+50.5	LT	41			#6328
35+72.2	RT	19.5			#6325
35+84.8	LT	41			#6324

BUILDING SANITARY SEWER

STATION	LOCATION	**SPV.0090.08** BUILDING SANITARY SEWER 6-INCH LF	**SPV.0060.19** BUILDING SANITARY SEWER RECONNECT 8-INCH EACH	**SPV.0060.28** INSTALL PLUG AT SANITARY WYE EACH	ADDRESS
36+04	LT	42			#6318
35+93.6	RT	17			#6319
36+33.7	RT	17			#6313
36+71.8	LT	41			#6312
36+74.3	RT	17			#6309
37+07.5	LT	41			#6306-08
37+29	LT	41			#6300-02
37+87.3	LT	41			#6252
38+20.5	LT	41			#6246
38+60.4	LT	41			#6240
39+07.5	LT	41			#6232
39+09.9	RT	18			#6231
39+46.5	RT	16.5			#6225
40+19.8	RT	16.5			#6215-17
40+55.2	RT	16.5			#6209
40+95.2	LT			1	#6200
42+52.7	RT	17.5			#6143
43+01.1	RT	17.5			#6139
170+54.7	RT	15			#6127-31 W. Mobile St.
46+02.7	LT	31			#6048
46+50	RT	28			#6047
47+21.4	LT	31			#6036
48+21.9	RT	28			#6023
48+83.2	RT	28			#2017 S. 66th St.
129+54.3	RT	21			#6433 on 65th St.
149+36.1	RT	23.5			#2110 S. 63rd St.
179+47.9	LT	27			#6202-00 W. Grant St.
280+50.3	LT	27			#6540 W. Grant St.
280+84.9	LT	27			#6530-32 W. Grant St.
PROJECT TOTALS		1728	1	1	

3

ALL CATEGORY 0010

3

WATER MAIN RELAY

FROM STA.	TO STA.	**SPV.0060.20** VALVE 6-INCH EACH	**SPV.0060.21*** HYDRANT EACH	**SPV.0060.22** ADJUST WATER VALVE BOX EACH	**SPV.0060.23** AIR RELEASE 1-INCH EACH	**SPV.0060.24*** WATER MAIN CONNECTION 6-INCH EACH	**SPV.0060.25** WATER MAIN CONNECTION 8-INCH EACH	**SPV.0090.09** WATER MAIN RELAY 6-INCH LF	**SPV.0090.10** WATER MAIN RELAY 6-INCH IN 18" STEEL CASING LF	LOCATION
17+67	39+84.3	7	1	9		2		2217.3		BELOIT - LINCOLN TO MCGEO
40+80	44+25	2		2		1	1	345		BELOIT - MCGOUGH TO R.R.
44+25	45+60			0					135	BELOIT @ R.R.
45+60	49+45.9	1	1	2		1		385.9		BELOIT - R.R. TO 60TH
100+23.1	100+90	1	1	2	1	1		66.9		S. 67TH PL.
109+18.6	110+18.5	1	1	2		1		99.9		S. 67TH ST.
119+07.7	120+19.1	1	1	2		1		111.4		S..66TH S. OF BELOIT
220+95	221+27.2	1	1	2	1	1		32.2		S. 66TH N. OF BELOIT
128+77.2	130+20.3	1	1	2		1		143.1		S. 65TH S. OF BELOIT
230+24.1	230+99.3	1	1	2	1	1		75.2		S. 65TH N. OF BELOIT
139+17.4	140+18.6	1	1	2		1		101.2		S. 64TH ST.
149+19.2	150+18.4	1	1	2		1		99.2		S. 63RD ST.
179+42	181+00.3	2		2		1		158.3		W. GRANT
159+16.2	159+88.2	1	1	2	1	3		67.4		S. 62ND ST.
	PROJECT TOTALS	21	11	33	4	16	1	3903	135	

*Various water main/lead lengths, see plans

ALL CATEGORY 0020

WATER SERVICES

STATION	LOCATION	**SPV.0090.11** WATER SERVICE COPPER 1-INCH LF	**SPV.0090.12** WATER SERVICE COPPER 1 1/2-INCH LF	**SPV.0060.26** WATER SERVICE RECONNECT 1 1/2-INCH EACH	**SPV.0060.27** WATER SERVICE RECONNECT 6-INCH EACH	ADDRESS
20+94.7	RT				1	#6700
21+18.0	RT	39				#6709-11
21+49.6	RT	37				#6701-05
23+57.8	RT	37				#6631-33
24+08.3	RT	37				#6625
24+54.7	RT	37				#6617
24+49.0	LT	17				#6626
24+90.3	LT	17				#6620-22
25+28.3	RT	37				#6609-11
27+42.9	RT			1		#6521
28+87.8	LT	17				#6524
29+81.9	LT	17				#6510
30+35.3	LT	17				#6500
31+49.2	RT	37				#6427-29
31+89.1	RT	37				#6416 W. Grant St.
32+28.6	LT	17				#6424
32+31.6	RT	37				#6415
32+53.0	LT	17				#6418
32+92.4	LT	17				#6412
32+92.5	RT	37				#6407-09
33+33.0	RT	37				#6403
33+34.3	LT	17				#6408-08A
33+68.7	LT	17				#6402
34+12.0	LT	17				#6346
34+48.8	LT	17				#6340
34+49.3	RT	37				#6339
34+95.2	RT	37				#6331
35+00.7	LT	17				#6334
35+46.9	LT	17				#6328
35+64.6	RT	37				#6325

WATER SERVICES

STATION	LOCATION	**SPV.0090.11** WATER SERVICE COPPER 1-INCH LF	**SPV.0090.12** WATER SERVICE COPPER 1 1/2-INCH LF	**SPV.0060.26** WATER SERVICE RECONNECT 1 1/2-INCH EACH	**SPV.0060.27** WATER SERVICE RECONNECT 6-INCH EACH	ADDRESS
35+81.8	LT	17				#6324
35+92.2	RT	37				#6319
35+98.9	LT	17				#6318
36+30.1	RT	37				#6313
36+70.8	LT	17				#6312
36+72.3	RT	37				#6309
37+06.3	LT	17				#6306-08
37+25.3	LT	20				#6300-02
37+86.4	LT	17				#6252
38+16.4	LT	17				#6246
38+55.8	LT	17				#6240
39+03.9	LT	17				#6232
39+05.5	RT	36.5				#6231
39+45.8	RT	36.5				#6225
40+93.4	LT	16				#6200
42+47.2	RT	36.5				#6143
42+84.7	RT	36.5				#6139
46+57.5	RT		34.5			#6047
47+21.2	LT	18				#6036
48+27.9	RT	34.5				#6023
48+76.4	RT	34.5				#2017 S. 60th St.
100+35.9	LT	30				#6754
100+87.7	LT	30				#2255 S. 67th Pl.
109+50.0	RT			1		#6639 on S. 67th St.
119+49.3	RT			1		#6535 on S. 66th St.
129+00.0	LT	41				Park
129+50.0	RT	8				#6433
149+39.6	RT	11				#2110 S. 63rd St.
179+47.5	LT	13				#6600-02 W Grant St
180+53.3	LT	18.5				#6540 W. Grant St
180+87.9	LT	22.5				#6530-32 W. Grant St
PROJECT TOTALS		1448	35	3	1	

3

ALL CATEGORY 0020

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

W. BELOIT ROAD

S. 60TH STREET TO W. LINCOLN AVENUE

LOCAL ROAD

MILWAUKEE COUNTY

STATE PROJECT NUMBER
2525-03-71

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
2525-03-01	4.01	13
FEDERAL PROJECT NUMBER		

PLAT OF RIGHT OF WAY REQUIRED FOR
W. BELOIT ROAD
S. 60TH STREET TO W. LINCOLN AVENUE
W. BELOIT ROAD — MILWAUKEE CO.

CONSTRUCTION PROJECT NUMBER
2525-03-71

CAUTION
THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY.
DEEDS MUST BE CHECKED TO DETERMINE
PROPERTY BOUNDARIES.

CONVENTIONAL SYMBOLS

- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- NEW REFERENCE LINE
- NEW R/W LINE
- EXISTING R/W OR HE LINE
- PROPERTY LINE (P.L.)
- LOT, TIE & OTHER MINOR LINES
- SLOPE INTERCEPT
- CORPORATE LIMITS
- UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
- NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
- TEMPORARY LIMITED EASEMENT AREA
- EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
- TRANSMISSION STRUCTURES
- BUILDING — TO BE REMOVED
- BRIDGE
- SECTION CORNER SYMBOL
- SECTION CORNER MONUMENT
- R/W MONUMENT (TO BE SET)
- NON-MONUMENTED R/W POINT
- FOUND IRON PIN (1-INCH UNLESS NOTED) IP
- GEODETIC SURVEY MONUMENT
- SIXTEENTH CORNER MONUMENT
- SIGN — SIGN
- OFF-PREMISE SIGN (#1-2) — SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	⌀
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	◆	◇

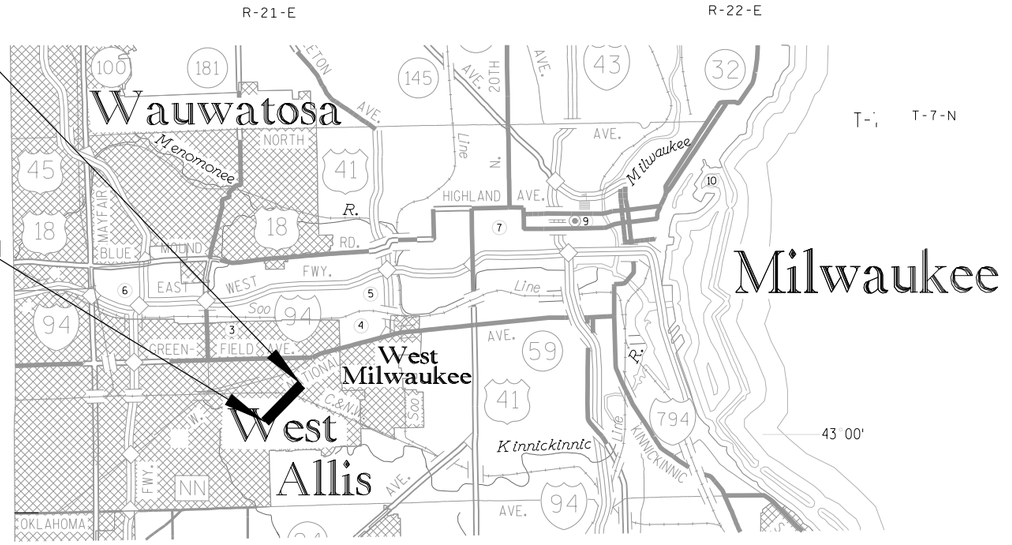
- ACCESS RESTRICTED BY ACQUISITION
- NO ACCESS (BY STATUTORY AUTHORITY)
- ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
- NO ACCESS (NEW HIGHWAY)
- PARCEL NUMBER (25)
- UTILITY NUMBER (40)
- PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF BEGINNING	POB
ACRES	AC	POINT OF CURVATURE	PC
AHEAD	AH	POINT OF COMPOUND CURVE	PCC
ALUMINUM	ALUM	POINT OF INTERSECTION	PI
AND OTHERS	ET AL	POINT OF TANGENCY	PT
BACK	BK	PROPERTY LINE	PL
BLOCK	BLK	RECORDED AS	(100')
CENTERLINE	C	REEL / IMAGE	R/I
CERTIFIED SURVEY MAP	CSM	REFERENCE LINE	R
CONCRETE	CONC	REMAINING	REM
COUNTY	CO	RESTICTIVE DEVELOPMENT EASEMENT	RDE
COUNTY TRUNK HIGHWAY	CTH	RIGHT	RT
DISTANCE	DIST	RIGHT OF WAY	R/W
CORNER	COR	SECTION	SEC
DOCUMENT NUMBER	DOC	SEPTIC VENT	SEPV
EASEMENT	EASE	SQUARE FEET	SF
EXISTING	EX	STATE TRUNK HIGHWAY	STH
GAS VALVE	GV	STATION	STA
GRID NORTH	GN	TELEPHONE PEDESTAL	TP
HIGHWAY EASEMENT	HE	TEMPORARY LIMITED EASEMENT	TLE
IDENTIFICATION	ID	TRANSPORTATION PROJECT PLAT	TPP
LAND CONTRACT	LC	UNITED STATES HIGHWAY	USH
LEFT	LT	VOLUME	V
MONUMENT	MON	GRID COORDINATES	Y,X
NATIONAL GEODETIC SURVEY	NGS	GROUND COORDINATES	N,E
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
PERMANENT LIMITED EASEMENT	PLE		

END RELOCATION ORDER
STA. 49+72.01
1,977.78' NORTH OF AND 98.50' WEST OF THE SE. CORNER OF THE SE.1/4, SECTION 3, T.6N., R.21E.
N=374,032.40
E=2,538,431.50

BEGIN RELOCATION ORDER
STA. 16+93.41
7.87' SOUTH OF AND 33.17' EAST OF THE SW. CORNER OF THE SE.1/4, SECTION 3, T.6N., R.21E.
N=371,960.98
E=2,535,890.17



N

LAYOUT
SCALE 0 1.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.607 MI.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

NOTES:

COORDINATES SHOWN ON THIS PLAT ARE ORIENTED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD27. ALL PLAT DISTANCES ARE GROUND LENGTH AND MAY BE CONVERTED TO GRID LENGTH BY MULTIPLYING THE DISTANCE BY THE GRID FACTOR PROVIDED ON THE DETAIL SHEETS.

ALL NEW RIGHT OF WAY MONUMENTS WILL BE TYPE 2 MONUMENTS AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT. NEW RIGHT OF WAY MONUMENTATION THAT FALLS ON CONCRETE SURFACES WILL BE MONUMENTED BY A CHISILED CROSS ON 5' OFFSETS.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE THE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT HIGHWAY AUTORITIES DEEM NECESSARY OR DESIRABLE. ALL TLE'S EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FOR DATA DERIVED FROM MAPS AND DOCUMENS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

ORIGINAL PLAT PREPARED BY
GRAEF
WISCONSIN
CARLA J. ROLLINS
S-3207
SHEBOYGAN, WI
LAND SURVEYOR
03/25/2021 (Date) (Signature)

REVISION DATE
10/13/2022 (1)

CITY OF WEST ALLIS

APPROVED FOR THE CITY
DATE: 3/29/2021 Traci Stengler (Signature)

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\040101_rt.dgn PLOT DATE : 10/13/2022 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 50

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL ACRES	NEW	EXISTING	TOTAL	REMAINING ACRES	TEMP. ACRES	PERM. ACRES	PARCEL NUMBER
1	4.07	Karvansara LLC, a Wisconsin limited liability company	TLE	0.135	0.000	0.000	0.000	0.135	0.004	0.000	1
2	4.07	Beloit Road Properties, LLC	TLE	0.164	0.000	0.000	0.000	0.164	0.009	0.000	2
3	4.07 / 4.08	Highland Commons, LLC	TLE	1.122	0.000	0.000	0.000	1.122	0.051	0.000	3
4	4.07	Lincoln Avenue Properties, LLC	TLE	0.403	0.000	0.000	0.000	0.403	0.049	0.000	4
5	4.07	Land contract between Carol L. McMahon, as Vendor, and Sportz Medicine LLC, a Wisconsin limited liability company, as Purchaser	TLE	0.081	0.000	0.000	0.000	0.081	0.006	0.000	5
6	N/A	INTENTIONALLY OMITTED	NONE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6
7	4.08	New Vintage Church, Inc.	TLE	0.220	0.000	0.000	0.000	0.220	0.013	0.000	7
8	4.08	Vicky Hanson	TLE	0.110	0.000	0.000	0.000	0.110	0.006	0.000	8
9	4.08	Dominic D. Sanfelippo	TLE	0.354	0.000	0.000	0.000	0.354	0.025	0.000	9
10	N/A	INTENTIONALLY OMITTED	NONE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10
11	4.08	Brian K. Taborski	TLE	0.099	0.000	0.000	0.000	0.099	0.016	0.000	11
12	4.08	Jeffrey T. Anderson	TLE	0.097	0.000	0.000	0.000	0.097	0.006	0.000	12
13	4.08	Nicholas M. Roland	TLE	0.119	0.000	0.000	0.000	0.119	0.010	0.000	13
14	4.08	Alcus T. Thompson	TLE	0.103	0.000	0.000	0.000	0.103	0.019	0.000	14
15	4.08	Robert J. Johnsen	TLE	0.088	0.000	0.000	0.000	0.088	0.010	0.000	15
16	4.08	Jeffery P. Wolfe	TLE	0.110	0.000	0.000	0.000	0.110	0.010	0.000	16
17	4.09	Douglas Dexter	TLE	0.109	0.000	0.000	0.000	0.109	0.005	0.000	17
18	4.09	Reich Homes I, LLC	TLE	0.120	0.000	0.000	0.000	0.120	0.012	0.000	18
19	4.09	John M. Thurman	TLE	0.102	0.000	0.000	0.000	0.102	0.015	0.000	19
20	4.09	Richard P. Kaczor and Carrie A. Kaczor, husband and wife	TLE	0.213	0.000	0.000	0.000	0.213	0.016	0.000	20
21	4.09	Fremut's Holdings, LCC	TLE	0.064	0.000	0.000	0.000	0.064	0.014	0.000	21
22	4.09	ATD Rentals 65 LLC	TLE	0.088	0.000	0.000	0.000	0.088	0.018	0.000	22
23	4.09	ATD Rentals 65 LLC	TLE	0.250	0.000	0.000	0.000	0.250	0.010	0.000	23
24	N/A	INTENTIONALLY OMITTED	NONE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	24
25	N/A	INTENTIONALLY OMITTED	NONE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25
26	4.10	MRK 6424 Properties LLC, a Wisconsin limited liability company	TLE	0.184	0.000	0.000	0.000	0.184	0.019	0.000	26
27	4.10	Gregory Prabucki	TLE	0.110	0.000	0.000	0.000	0.110	0.006	0.000	27
28	4.10	Paul A. Bettendorf and Suzanne L. Bettendorf, husband and wife	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	28
29	4.10	Francisco Guzman	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	29
30	4.10	Gilbert M. Murawski, a single person and Kim Antonovich, the remainder interest	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	30
31	4.10	Henry T. Potocki and Helena I. Potocki, husband and wife	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	31
32	4.10	Carla Lopez Cardoso and Sebastian Restrepo Diez	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	32
33	N/A	INTENTIONALLY OMITTED	NONE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	33
34	4.10	Jakob Ahrens	TLE	0.114	0.000	0.000	0.000	0.114	0.012	0.000	34
35	4.10	Kevin Helinski and Sandra Helinski	TLE	0.104	0.000	0.000	0.000	0.104	0.009	0.000	35
36	4.10	Kevin Helinski	TLE	0.120	0.000	0.000	0.000	0.120	0.009	0.000	36
37	4.10	Maria G. Cervantes	TLE	0.128	0.000	0.000	0.000	0.128	0.016	0.000	37
38	4.10	Jeremy D. Brown and Raven A. Brown, husband and wife	TLE	0.093	0.000	0.000	0.000	0.093	0.009	0.000	38
39	4.10	Paul A. Grooms and Laurie Ann Grooms, husband and wife	TLE	0.109	0.000	0.000	0.000	0.109	0.009	0.000	39
40	4.10	Epic Investment Solutions, LLC	TLE	0.092	0.000	0.000	0.000	0.092	0.012	0.000	40
41	4.10	Robert M. Cooper, and his successors, Trustee of the Robert M. Cooper Trust	TLE	0.118	0.000	0.000	0.000	0.118	0.008	0.000	41
42	4.11	Yohannes M. Quiles and Chasity E. Quiles, husband and wife; and Charles T. Klusman	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	42
43	4.11	Chue Yee Yang and Mai Kee Vang	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	43

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL ACRES	NEW	EXISTING	TOTAL	REMAINING ACRES	TEMP. ACRES	PERM. ACRES	PARCEL NUMBER
44	4.11	Teresa M. Sarnowski f/k/a Teresa M. Scepanski and the Estate of Mark Sarnowski	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	44
45	4.11	Esmeralda Nava James	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	45
46	4.11	Timoth L. Perleberg and Linda J. Perleberg	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	46
47	4.11	Kenneth D. Schinke and Lee Schinke, husband and wife	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	47
48	4.11	Brian Levan and Melissa Kenney	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	48
49	4.11	The Debra L. Lauritch Revocable Living Trust	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	49
50	4.11	James A. Klinger and Danielle M. Klinger, husband and wife	TLE	0.110	0.000	0.000	0.000	0.110	0.009	0.000	50
51	4.11	Axel O. Maldonado-Medina	TLE	0.168	0.000	0.000	0.000	0.168	0.021	0.000	51
52	4.11	Lori La Bre	TLE	0.139	0.000	0.000	0.000	0.139	0.008	0.000	52
53	4.11	Heidi Ruth Wehrhahn	TLE	0.061	0.000	0.000	0.000	0.061	0.007	0.000	53
54	4.11	Carol Simon	TLE	0.069	0.000	0.000	0.000	0.069	0.006	0.000	54
55	4.11	Richard A. Minar and Patricia L. Minar, husband and wife	TLE	0.082	0.000	0.000	0.000	0.082	0.006	0.000	55
56	4.11	Wayne M. Nadolske and Julie A. Nadolske, husband and wife	TLE	0.115	0.000	0.000	0.000	0.115	0.007	0.000	56
57	4.11	Jacob Pitzer	TLE	0.109	0.000	0.000	0.000	0.109	0.009	0.000	57
58	4.11	Anthony V. Budiac	TLE	0.106	0.000	0.000	0.000	0.106	0.007	0.000	58
59	4.11	Kellie A. Stefonich	TLE	0.126	0.000	0.000	0.000	0.126	0.007	0.000	59
60	4.11	Jose L. Arteaga and Maria C. Arteaga, Trustee of the Jose and Maria Arteaga Living Trust	TLE	0.106	0.000	0.000	0.000	0.106	0.026	0.000	60
61	4.12	INTENTIONALLY OMITTED (1)	NONE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	61
62	4.12	Kimberly S. Stevenson	TLE	0.089	0.000	0.000	0.000	0.089	0.007	0.000	62
63	4.12	Accent Properties LLC	TLE	0.109	0.000	0.000	0.000	0.109	0.007	0.000	63
64	4.12	The Zeman Family Irrevocable Trust	TLE	0.116	0.000	0.000	0.000	0.116	0.011	0.000	64
65	4.12	Victory Property Group LLC, a Wisconsin limited liability company	TLE	0.115	0.000	0.000	0.000	0.115	0.014	0.000	65
66	4.12	Land contract between Peter G. Agnos and Eugena P. Agnos, husband and wife, and Jose M. Lopez, as Purchaser	TLE	0.576	0.000	0.000	0.000	0.576	0.037	0.000	66
67	4.13	6048 Beloit LLC	TLE	2.012	0.000	0.000	0.000	2.012	0.039	0.000	67
68	4.13	S.T. Evenignasiak LLC, a Wisconsin limited liability company	TLE	1.667	0.000	0.000	0.000	1.667	0.083	0.000	68
69	4.13	Fairview Real Estate LLC, a Wisconsin limited liability company	TLE	0.578	0.000	0.000	0.000	0.578	0.013	0.000	69
70	4.13	Rosmarie Dunham, and successors, as Trustee of the Rosemarie Dunham Revocable Trust of 1994	TLE	0.409	0.000	0.000	0.000	0.409	0.034	0.000	70
71	4.13	J & D Freedom, LLC, a Wisconsin Limited Liability Company	TLE	0.158	0.000	0.000	0.000	0.158	0.008	0.000	71
72	4.13	2017 S 60th, LLC, a Wisconsin Limited Liability Company	TLE	0.528	0.000	0.000	0.000	0.528	0.021	0.000	72
50	4.07, 4.08, 4.12, 4.13	AT&T Wisconsin	RELEASE OF RIGHTS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
51	4.07, 4.08, 4.13	WE Energies-Electric	RELEASE OF RIGHTS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
52	4.12, 4.13	WILTEL Communications, Inc., Sprint Communications Co. LP, Qwest Communications Co. LLC, US Sprint Communications Company	RELEASE OF RIGHTS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
53	4.08	City of West Allis	RELEASE OF RIGHTS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
54 (1)											

4

4

REVISION DATE 10/13/2022 (1)	DATE 03/25/2021	SCALE, FEET 0 N/A	HWY: W. BELOIT ROAD	R/W PROJECT NUMBER 2525-03-01	PLAT SHEET 4.03
			COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2525-03-71	PS&E SHEET 174 E

CITY

SE-SW
SEC 3-6-21

T 6 N
3 3
3 3
R 21 E

CONCRETE MONUMENT
W/BRASS CAP
N=374,607.06
E=2,535,817.55

S. 67TH PLACE

SW-SE
SEC 3-6-21

GN

SET MAG NAIL
N=371,968.85
E=2,535,857.00

T 6 N
3 3
10 10
R 21 E

1/4 SECTION LINE

OF

1 2 3 7 8 9 17 18 19 20 21

N

16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00

W. BELOIT ROAD

4 5 11 12 13 14 15 16 22 23

W. GRANT STREET

SECTION LINE

W. LINCOLN AVENUE

S. 67TH STREET

S. 66TH STREET

S. 65TH STREET

MATCH LINE

WEST ALLIS

BEGIN RELOCATION ORDER
STA. 16+93.41
N=371,960.98
E=2,535,890.17

NW-NE
SEC 10-6-21

T 6 N
3 2
10 11
R 21 E

INK CROSS
N=372,054.62
E=2,538,530.00

4 4

REVISION DATE	DATE 03/25/2021	SCALE. FEET 0 50 100	HWY: W. BELOIT ROAD	R/W PROJECT NUMBER 2525-03-01	PLAT SHEET 4.04	
	GRID FACTOR 0.99992401		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2525-03-71	PS&E SHEET 175	E

CITY

1/16 LINE

NW-SE
SEC 3-6-21

1/16 LINE

GN

SW-SE
SEC 3-6-21

S. 65TH STREET

OF

W. MCGEOCH AVENUE

NE-SE
SEC 3-6-21

4

4

26 27 28 29 30 31 32 42 43 44 45 46 47 48 49 50 51

MATCH LINE

31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00 43

MATCH LINE

W. BELOIT ROAD

34 35 36 37 38 39 40 41 52 53 54 55 56 57 58 59 60 62 63 64 65 66

S. 64TH STREET

S. 63RD STREET

SE-SE
SEC 3-6-21

S. 62ND STREET

1/16 LINE

1/16 LINE

WEST ALLIS

REVISION DATE	DATE 03/25/2021	SCALE. FEET 0 50 100	HWY: W. BELOIT ROAD	R/W PROJECT NUMBER 2525-03-01	PLAT SHEET 4.05
	GRID FACTOR 0.99992401		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2525-03-71	PS&E SHEET 176 E

CITY

NE-SE
SEC 3-6-21

T 6 N
R 21 E
3 2
3 2

CONCRETE MONUMENT
W/BRASS CAP
N=374,695.12
E=2,538,486.48

GN

UNION PACIFIC RAILROAD

1/4 SECTION LINE

OF

67 68 69

MATCH LINE

00 44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00 53+00 54+00

61 W. BELOIT ROAD

END RELOCATION ORDER
STA. 49+72.01
N=374,032.40
E=2,538,431.50

66 70 71 72

W. MOBILE STREET

S. 60TH STREET

NE-SE
SEC 3-6-21

WEST ALLIS

1/16 LINE

SE-SE
SEC 3-6-21

INK CROSS
N=372,054.62
E=2,538,530.00

T 6 N
R 21 E
3 2
10 11

4

REVISION DATE	DATE 03/25/2021	SCALE. FEET 0 50 100	HWY: W. BELOIT ROAD	R/W PROJECT NUMBER 2525-03-01	PLAT SHEET 4.06	
	GRID FACTOR 0.99992401		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2525-03-71	PS&E SHEET 177	E

CONCRETE MONUMENT
W/BRASS CAP
N=374,607.06
E=2,535,817.55

SET MAG NAIL
N=371,968.85
E=2,535,857.00

2,638.50'
S 0° 51' 24" E

1/4 SECTION LINE

CITY

JUNEAU HIGHLANDS

BLOCK 6

LOT 9

LOT 10

LOT 11

LOT 13

LOT 12

PL

1

KARVANSARA LLC,
A WISCONSIN LIMITED
LIABILITY COMPANY

2

BELOIT ROAD
PROPERTIES, LLC

16+96.51
56.86'

17+27.80
33.00'

17+78.77
35.00'

17+78.77
33.00'

18+42.99
35.00'

18+74.31
74.47'

18+78.29
71.44'

30'

101+00

102+00

N 0° 44' 45" W

S. 67TH PLACE

SW-SE
SEC 3-6-21

GN

CSM #8377
LOT 1

HIGHLAND
COMMONS, LLC

3

50 51

SEE SHEET 4.08

19+40.20
38.00'

19+40.19
33.00'

TLE SLOPES
(TYP)

BLD.

SLOPE INTERCEPT
(TYP)

16+93.41
52.94'

17+19.55
33.00'

18+47.79
33.00'

2'

5'

33.00'

N 39° 10' 59" W

44.60'

17+00

11.42'

18+00

220.64'

19+00

165.23'

20+00

279.61'

21+00

22+00

N 50° 49' 01" E

349.38'

33'

STA. 100+00.00 =
STA. 18+59.90

S 39° 10' 59" E

W. BELOIT ROAD

18+73.36
33.00'

10'

20+85.58
33.00'

5'

20+81.64
38.00'

21+40.87
33.00'

21+36.93
38.00'

18+65.48
43.00'

20+77.70
43.00'

LOT 8

LOT 2

LOT 1

STA. 17+08.13

N 88° 09' 44" E

2,629.78'

W. LINCOLN AVENUE
SECTION LINE

4

LINCOLN AVENUE
PROPERTIES, LLC

LOT 7

LOT 6

LOT 5

5

LAND CONTRACT BETWEEN
CAROL L. MCMAHON, AS VENDOR,
AND SPORTZ MEDICINE LLC, A
WISCONSIN LIMITED LIABILITY COMPANY

MATCH LINE

S. 67TH STREET

WEST ALLIS

BLOCK 8

JOSEPH JUNEAU
SUBDIVISION NO. 3

BEGIN RELOCATION ORDER
STA. 16+93.41
N=371,960.98
E=2,535,890.17

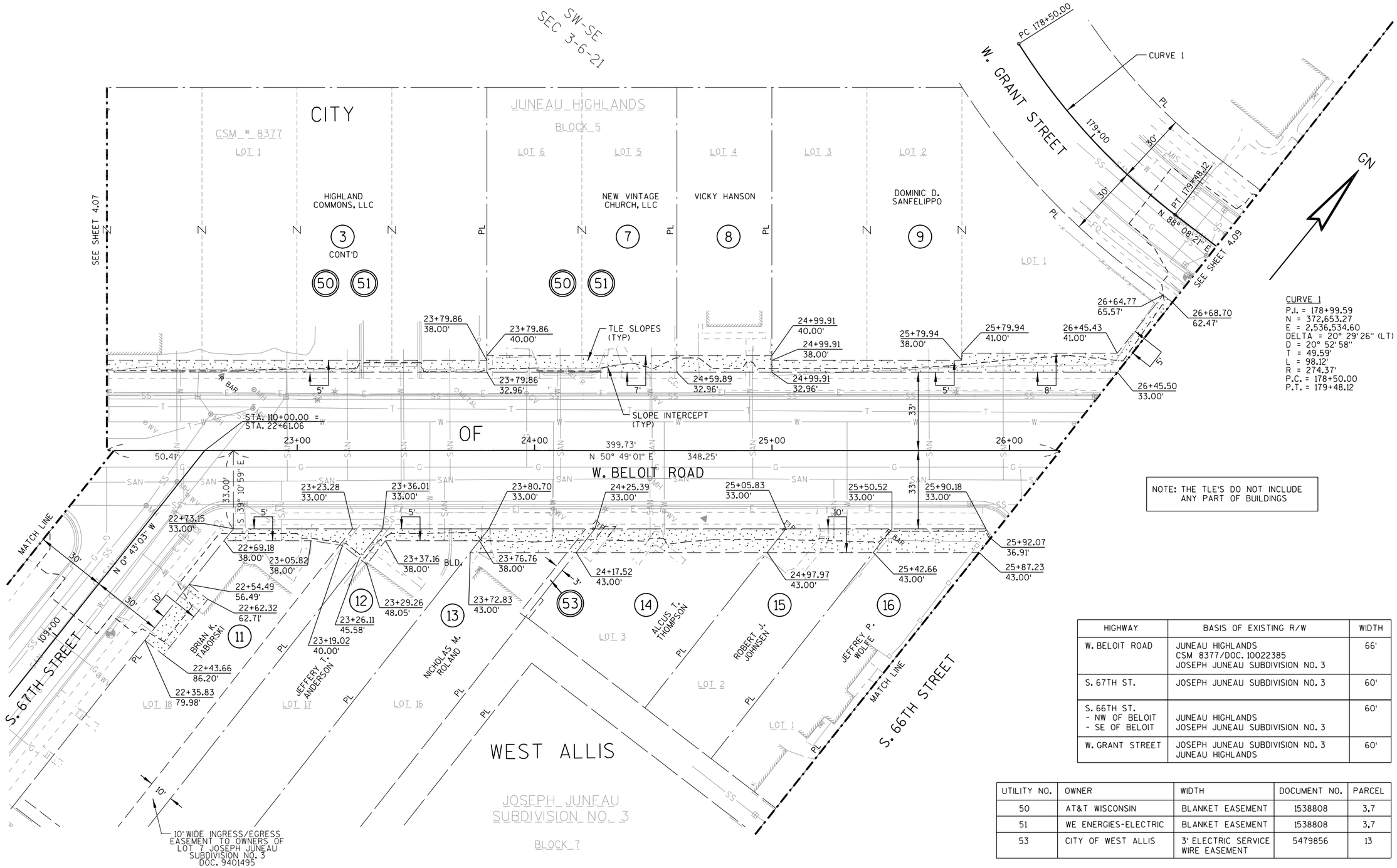
NOTE: THE TLE'S DO NOT INCLUDE
ANY PART OF BUILDINGS

INK CROSS
N=372,054.62
E=2,538,530.00

UTILITY NO.	OWNER	WIDTH	DOCUMENT NO.	PARCEL
50	AT&T WISCONSIN	BLANKET EASEMENT	1538808	3
51	WE ENERGIES-ELECTRIC	BLANKET EASEMENT	1538808	3

HIGHWAY	BASIS OF EXISTING R/W	WIDTH
W. BELOIT ROAD	JUNEAU HIGHLANDS CSM 8377/DOC. 10022385 JOSEPH JUNEAU SUBDIVISION NO. 3	66'
S. 67TH PLACE	JUNEAU HIGHLANDS	60'
S. 67TH STREET	JOSEPH JUNEAU SUBDIVISION NO. 3	60'

REVISION DATE	DATE: 03/25/2021	SCALE. FEET 0 20 40	HWY: W. BELOIT ROAD	R/W PROJECT NUMBER: 2525-03-01	PLAT SHEET 4.07
	GRID FACTOR 0.99992401		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER: 2525-03-71	PS&E SHEET 178 E



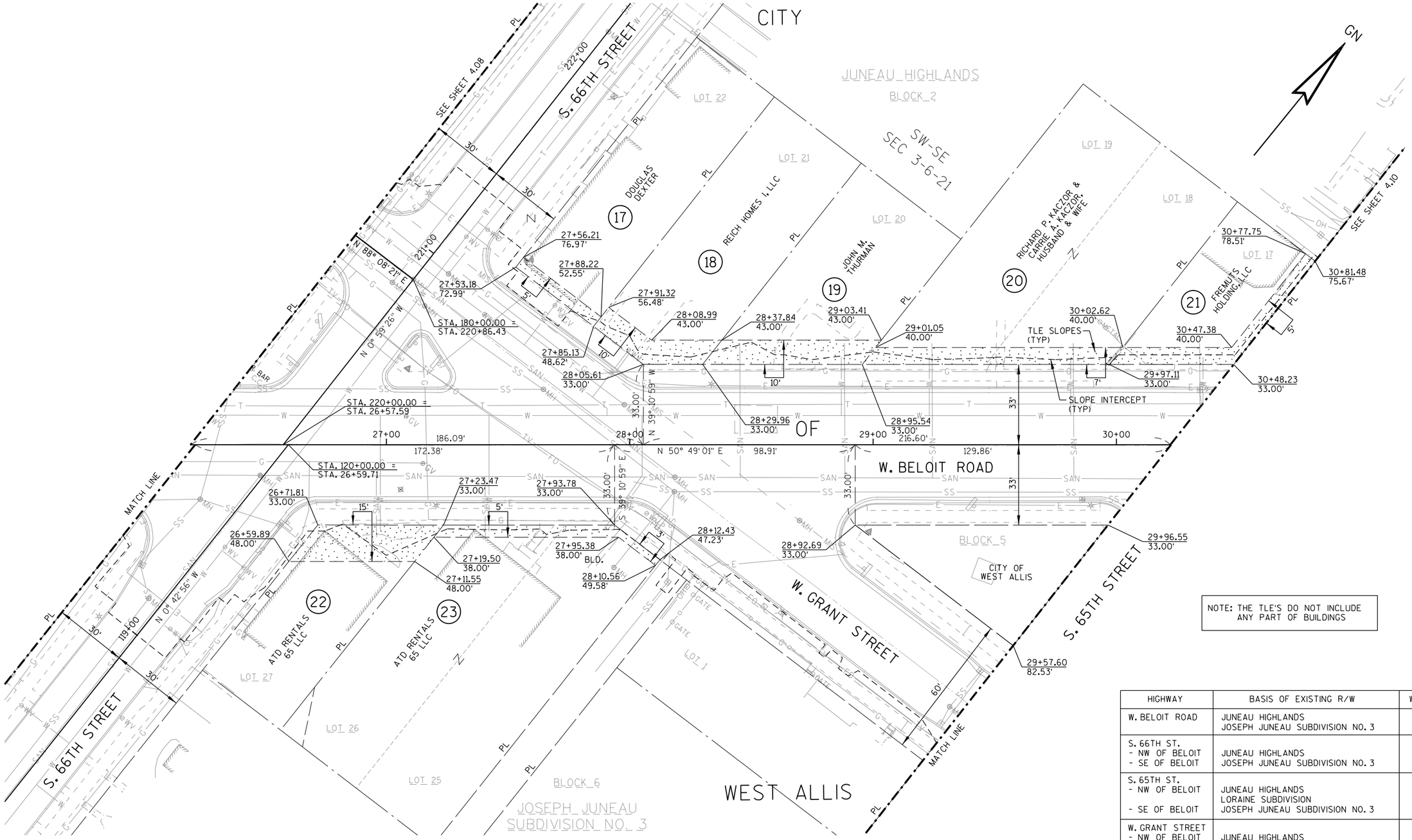
CURVE 1
P.I. = 178+99.59
N = 372,653.27
E = 2,536,534.60
DELTA = 20° 29' 26" (LT)
D = 20° 52' 58"
T = 49.59'
L = 98.12'
R = 274.37'
P.C. = 178+50.00
P.T. = 179+48.12

NOTE: THE TLE'S DO NOT INCLUDE ANY PART OF BUILDINGS

HIGHWAY	BASIS OF EXISTING R/W	WIDTH
W. BELOIT ROAD	JUNEAU HIGHLANDS CSM 8377/DOC. 10022385 JOSEPH JUNEAU SUBDIVISION NO. 3	66'
S. 67TH ST.	JOSEPH JUNEAU SUBDIVISION NO. 3	60'
S. 66TH ST. - NW OF BELOIT - SE OF BELOIT	 JUNEAU HIGHLANDS JOSEPH JUNEAU SUBDIVISION NO. 3	60'
W. GRANT STREET	JOSEPH JUNEAU SUBDIVISION NO. 3 JUNEAU HIGHLANDS	60'

UTILITY NO.	OWNER	WIDTH	DOCUMENT NO.	PARCEL
50	AT&T WISCONSIN	BLANKET EASEMENT	1538808	3,7
51	WE ENERGIES-ELECTRIC	BLANKET EASEMENT	1538808	3,7
53	CITY OF WEST ALLIS	3' ELECTRIC SERVICE WIRE EASEMENT	5479856	13

REVISION DATE	DATE: 03/25/2021	SCALE. FEET 0 20 40	HWY: W. BELOIT ROAD	R/W PROJECT NUMBER: 2525-03-01	PLAT SHEET 4.08
	GRID FACTOR 0.99992401		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER: 2525-03-71	PS&E SHEET 179 E



NOTE: THE TLE'S DO NOT INCLUDE ANY PART OF BUILDINGS

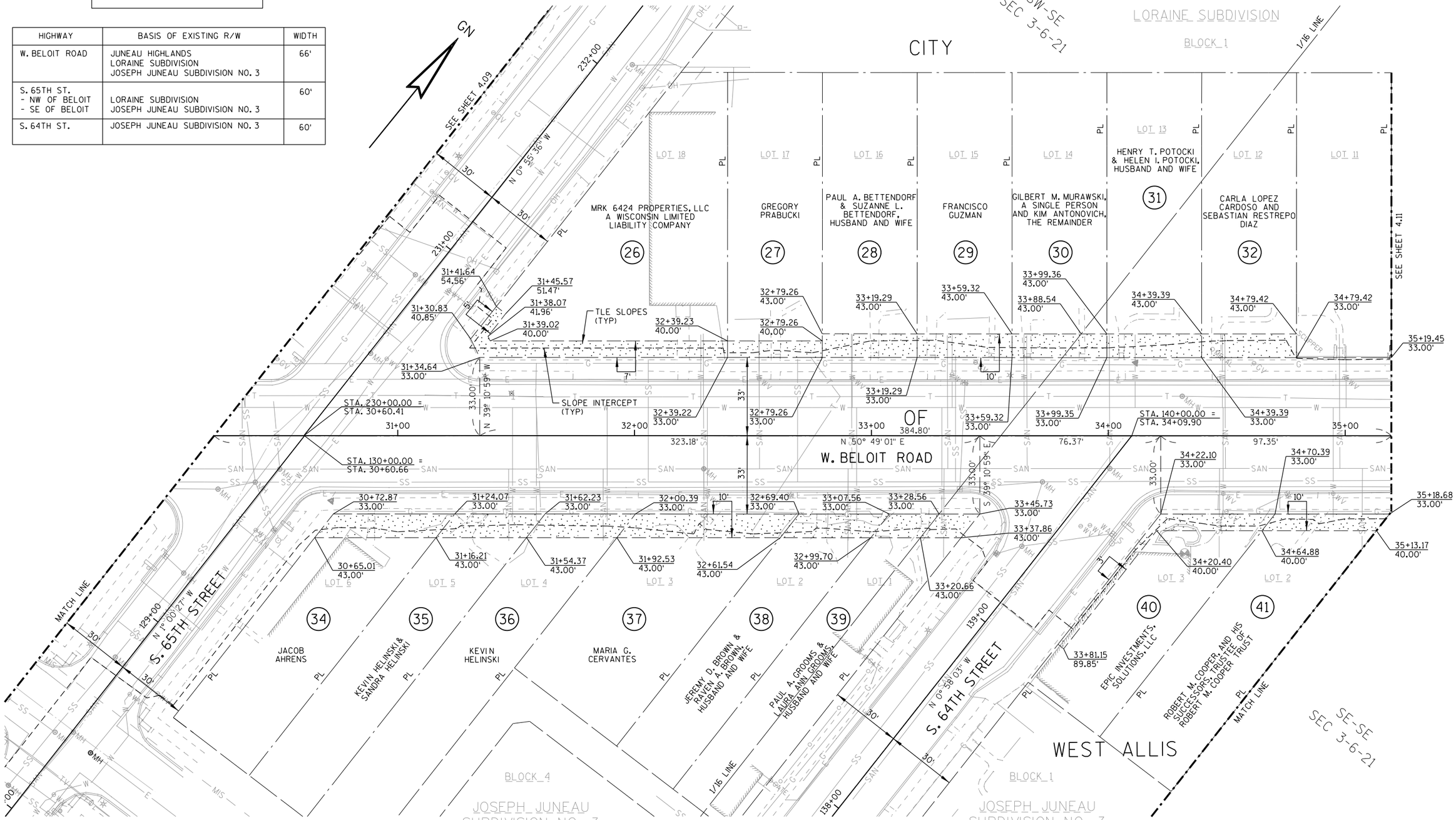
HIGHWAY	BASIS OF EXISTING R/W	WIDTH
W. BELOIT ROAD	JUNEAU HIGHLANDS JOSEPH JUNEAU SUBDIVISION NO. 3	66'
S. 66TH ST. - NW OF BELOIT - SE OF BELOIT	JUNEAU HIGHLANDS JOSEPH JUNEAU SUBDIVISION NO. 3	60'
S. 65TH ST. - NW OF BELOIT - SE OF BELOIT	JUNEAU HIGHLANDS LORAINE SUBDIVISION JOSEPH JUNEAU SUBDIVISION NO. 3	60'
W. GRANT STREET - NW OF BELOIT - SE OF BELOIT	JUNEAU HIGHLANDS JOSEPH JUNEAU SUBDIVISION NO. 3	60'

REVISION DATE	DATE: 03/25/2021	SCALE: FEET 0 20 40	HWY: W. BELOIT ROAD	R/W PROJECT NUMBER: 2525-03-01	PLAT SHEET 4.09	
	GRID FACTOR 0.99992401		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER: 2525-03-71	PS&E SHEET 180	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\040112_rp.dgn PLOT DATE : 10/13/2022 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 75

NOTE: THE TLE'S DO NOT INCLUDE ANY PART OF BUILDINGS

HIGHWAY	BASIS OF EXISTING R/W	WIDTH
W. BELOIT ROAD	JUNEAU HIGHLANDS LORAINE SUBDIVISION JOSEPH JUNEAU SUBDIVISION NO. 3	66'
S. 65TH ST. - NW OF BELOIT - SE OF BELOIT	LORAINE SUBDIVISION JOSEPH JUNEAU SUBDIVISION NO. 3	60'
S. 64TH ST.	JOSEPH JUNEAU SUBDIVISION NO. 3	60'

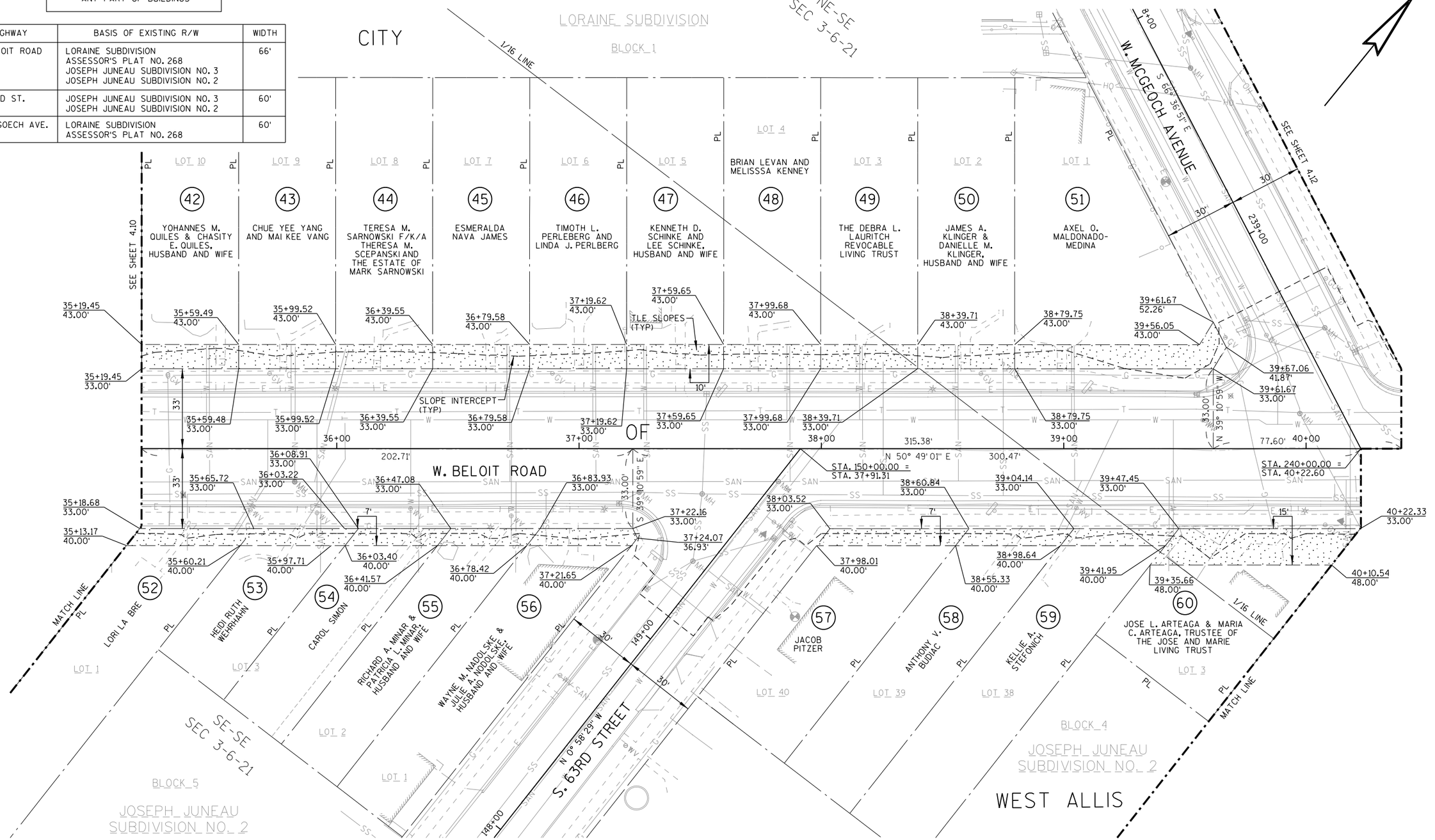


REVISION DATE	DATE: 03/25/2021	SCALE. FEET 0 20 40	HWY: W. BELOIT ROAD	R/W PROJECT NUMBER: 2525-03-01	PLAT SHEET 4.10	
	GRID FACTOR 0.99992401		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER: 2525-03-71	PS&E SHEET 181	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\040113_rp.dgn PLOT DATE : 10/13/2022 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 75

NOTE: THE TLE'S DO NOT INCLUDE ANY PART OF BUILDINGS

HIGHWAY	BASIS OF EXISTING R/W	WIDTH
W. BELOIT ROAD	LORAINE SUBDIVISION ASSESSOR'S PLAT NO. 268 JOSEPH JUNEAU SUBDIVISION NO. 3 JOSEPH JUNEAU SUBDIVISION NO. 2	66'
S. 63RD ST.	JOSEPH JUNEAU SUBDIVISION NO. 3 JOSEPH JUNEAU SUBDIVISION NO. 2	60'
W. MCGOECH AVE.	LORAINE SUBDIVISION ASSESSOR'S PLAT NO. 268	60'

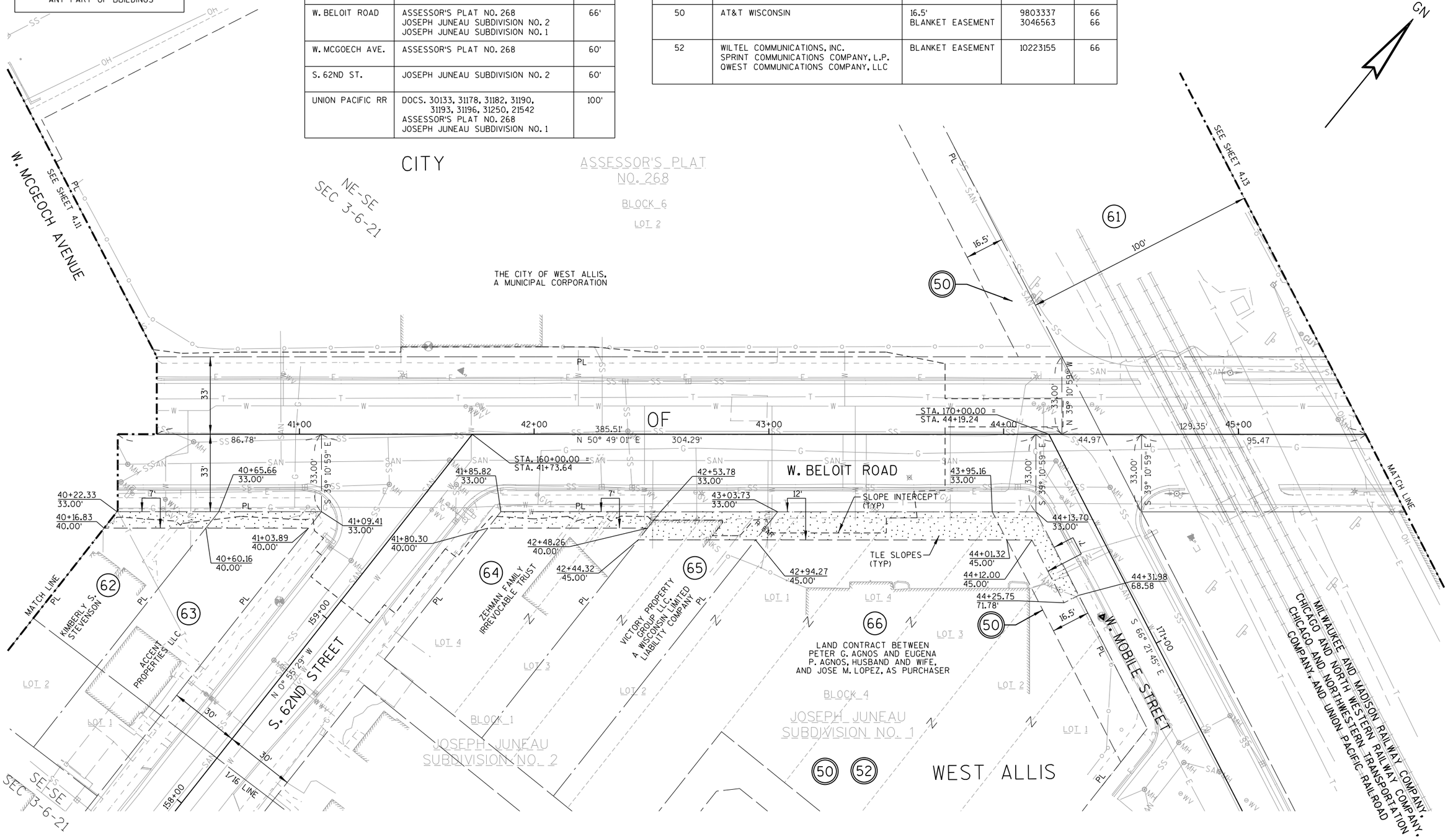


REVISION DATE	DATE: 03/25/2021	SCALE, FEET 0 20 40	HWY: W. BELOIT ROAD	R/W PROJECT NUMBER: 2525-03-01	PLAT SHEET 4.11	
	GRID FACTOR 0.99992401		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER: 2525-03-71	PS&E SHEET 182	E

NOTE: THE TLE'S DO NOT INCLUDE ANY PART OF BUILDINGS

HIGHWAY	BASIS OF EXISTING R/W	WIDTH
W. BELOIT ROAD	ASSESSOR'S PLAT NO. 268 JOSEPH JUNEAU SUBDIVISION NO. 2 JOSEPH JUNEAU SUBDIVISION NO. 1	66'
W. MCGOECH AVE.	ASSESSOR'S PLAT NO. 268	60'
S. 62ND ST.	JOSEPH JUNEAU SUBDIVISION NO. 2	60'
UNION PACIFIC RR	DOCS. 30133, 31178, 31182, 31190, 31193, 31196, 31250, 21542 ASSESSOR'S PLAT NO. 268 JOSEPH JUNEAU SUBDIVISION NO. 1	100'

UTILITY NO.	OWNER	WIDTH	DOCUMENT NO.	PARCEL
50	AT&T WISCONSIN	16.5' BLANKET EASEMENT	9803337 3046563	66 66
52	WILTEL COMMUNICATIONS, INC. SPRINT COMMUNICATIONS COMPANY, L.P. QWEST COMMUNICATIONS COMPANY, LLC	BLANKET EASEMENT	10223155	66



REVISION DATE 10/13/2022(1)	DATE: 03/25/2021	SCALE: FEET 0 20 40	HWY: W. BELOIT ROAD	R/W PROJECT NUMBER: 2525-03-01	PLAT SHEET 4.12
	GRID FACTOR 0.99992401		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER: 2525-03-71	PS&E SHEET 183 E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\040115_rp.dgn PLOT DATE : 10/13/2022 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 75

NOTE: THE TLE'S DO NOT INCLUDE ANY PART OF BUILDINGS

HIGHWAY	BASIS OF EXISTING R/W	WIDTH
W. BELOIT ROAD	ASSESSOR'S PLAT NO. 268	66'
S. 60TH ST.	ASSESSOR'S PLAT NO. 268	66'

CITY

WEST ALLIS

ASSESSOR'S PLAT NO. 268

BLOCK 8

LOT 21 | LOT 20 | LOT 19

LOT 1

BLOCK 7

ASSESSOR'S PLAT NO. 268

NE-SE SEC 3-6-21

GN

N

PL

SEE SHEET 4.12

MATCH LINE

6048 BELOIT LLC

S.T. EVENIGNASIAK LLC, A WISCONSIN LIMITED LIABILITY COMPANY

FAIRVIEW REAL ESTATE LLC, A WISCONSIN LIMITED LIABILITY COMPANY

ROSEMARIE DUNHAM, AND SUCCESSORS, AS TRUSTEE OF THE ROSEMARIE DUNHAM REVOCABLE TRUST OF 1994

J & D FREEDOM, LLC, A WISCONSIN LIMITED LIABILITY COMPANY

2017 S. 60TH, LLC A WISCONSIN LIMITED LIABILITY COMPANY

LICENSE TO USE ENCROACHING PARKING LOT DOC. 425946

50 51 52 67 68 69 70 71 72

W. BELOIT ROAD

S. 60TH STREET

SECTION LINE

N 0° 56' 39" W

45+27.44 52.00'

45+37.19 33.00'

46+28.62 52.00'

46+25.47 48.00'

46+13.62 33.00'

45+71.08 33.00'

45+74.68 40.00'

47+85.99 33.00'

47+80.12 40.00'

48+38.18 33.00'

48+32.32 40.00'

48+55.78 33.00'

48+67.63 48.00'

48+62.10 41.00'

49+30.78 41.00'

49+30.78 33.00'

49+63.12 33.00'

49+72.01 40.00'

46+00 47+00 48+00 49+00 50+00

301.65' N 50° 49' 01" E 408.98'

199.73' 92.39'

33' 33' 19' 15' 8' 7'

33.00' N 39° 10' 59" W

33.00' S 39° 10' 59" E

SLOPE INTERCEPT (TYP)

TLE SLOPES (TYP)

STA. 48+55.78

STA. 49+63.12

PI 50+55.51

N 0° 56' 39" W 609.75'

N 45° 58' 13" E

STA. 50+55.93

0.42'

2,031.11'

CONCRETE MONUMENT W/BRASS CAP
N=374,695.12
E=2,538,486.48

T 6 N R 21 E 3 2 3 2

END RELOCATION ORDER
STA. 49+72.01
N=374,032.40
E=2,538,431.50

T 6 N R 21 E 3 2 10 11

INK CROSS
N=372,054.62
E=2,538,530.00

UTILITY NO.	OWNER	WIDTH	DOCUMENT NO.	PARCEL
50	AT&T WISCONSIN	BLANKET EASEMENT BLANKET EASEMENT	3669795 3841495	68, 69 67
51	WE ENERGIES - ELECTRIC	BLANKET EASEMENT BLANKET EASEMENT	3669795 3841495	68, 69 67
52	WILTEL COMMUNICATIONS, INC. SPRINT COMMUNICATIONS COMPANY, L.P. QWEST COMMUNICATIONS COMPANY, LLC	BLANKET EASEMENT	10223155	67, 70

REVISION DATE	DATE: 03/25/2021	SCALE: FEET 0 20 40	HWY: W. BELOIT ROAD	R/W PROJECT NUMBER: 2525-03-01	PLAT SHEET 4.13
	GRID FACTOR 0.99992401		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER: 2525-03-71	PS&E SHEET 184 E

BENCH MARKS

NO.	DESCRIPTION	ELEV.
204	TOP SE. BOLT OF LIGHT POLE C3-2246 ON EAST SIDE OF S 67TH PLACE, 100'+/- NORTH OF BELOIT ROAD	154.59
107	EAST END OF WINDOW SILL AT 6701 W BELOIT ROAD	157.03

BEGIN PROJECT
STA. 17+33.24
N = 371,986.14
E = 2,535,921.03

MATCH LINE STA. 20+00

W BELOIT ROAD

S 67TH PLACE

S 68TH STREET

W LINCOLN AVENUE

WE-ENERGIES ELECTRIC

AT&T WISCONSIN

VERIZON

CITY OF WEST ALLIS ELECTRIC

CITY OF WEST ALLIS WATER

CITY OF WEST ALLIS SANITARY

WE ENERGIES GAS

SLOPE INTERCEPT (TYP)

66'

24'

24'

EXISTING PROFILE ON R/L

FINISHED PROFILE ON R/L

154.50

PI 19+00.00
EL 155.28

+0.50%

-0.50%

18+45.00
EL 155.00

19+55.00
EL 155.00

K = 110
L = 110'

EXISTING PROFILE ELEVATION ON R/L

FINISHED PROFILE ELEVATION ON R/L

153.7	154.3	154.5 154.53	154.7 154.78	155.0 155.03	155.2 155.14	155.0 155.03	154.9 154.78	
16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00	

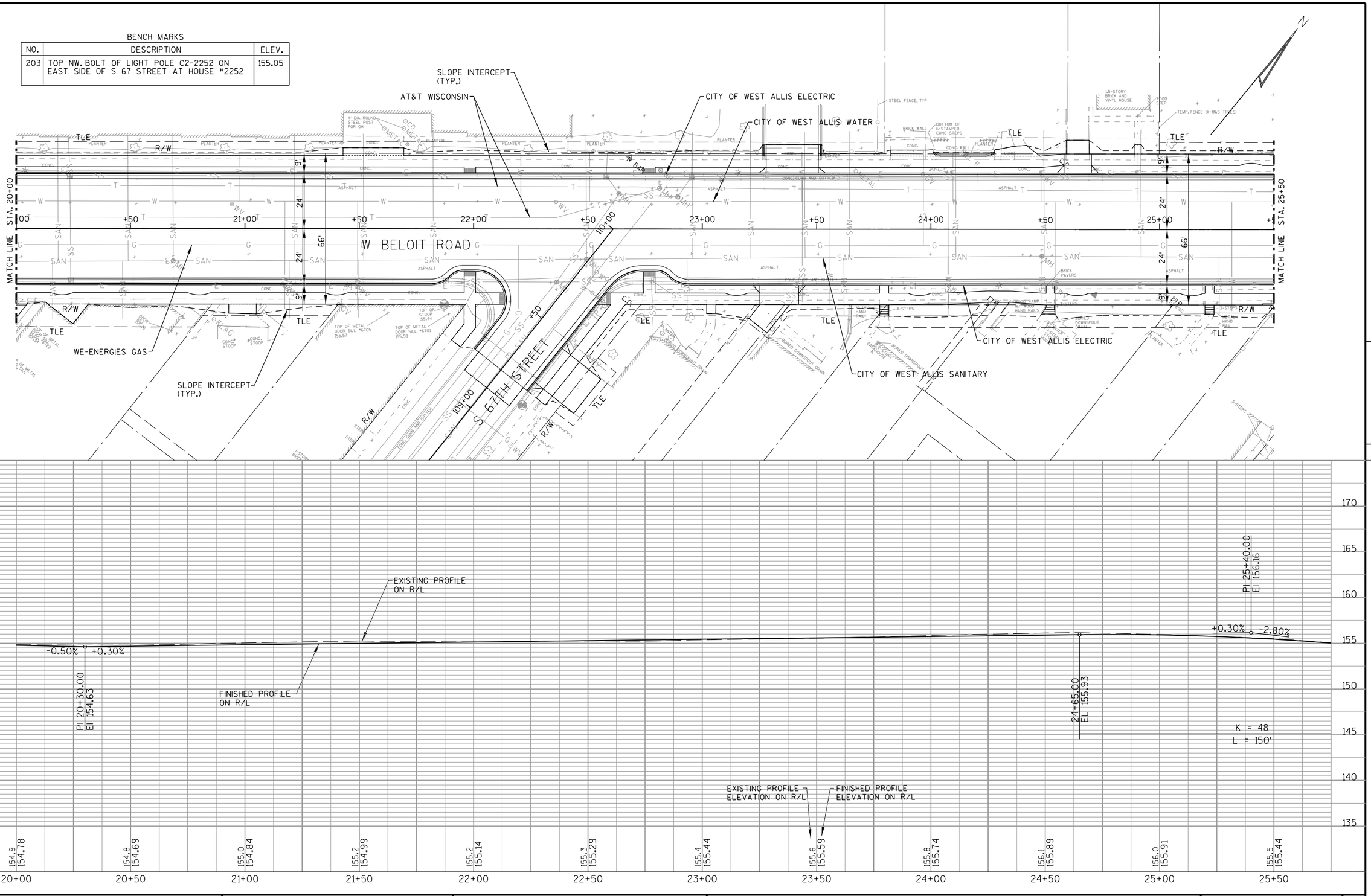
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN AND PROFILE	SHEET 185	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\050101_pp.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 30

BENCH MARKS

NO.	DESCRIPTION	ELEV.
203	TOP NW. BOLT OF LIGHT POLE C2-2252 ON EAST SIDE OF S 67 STREET AT HOUSE #2252	155.05



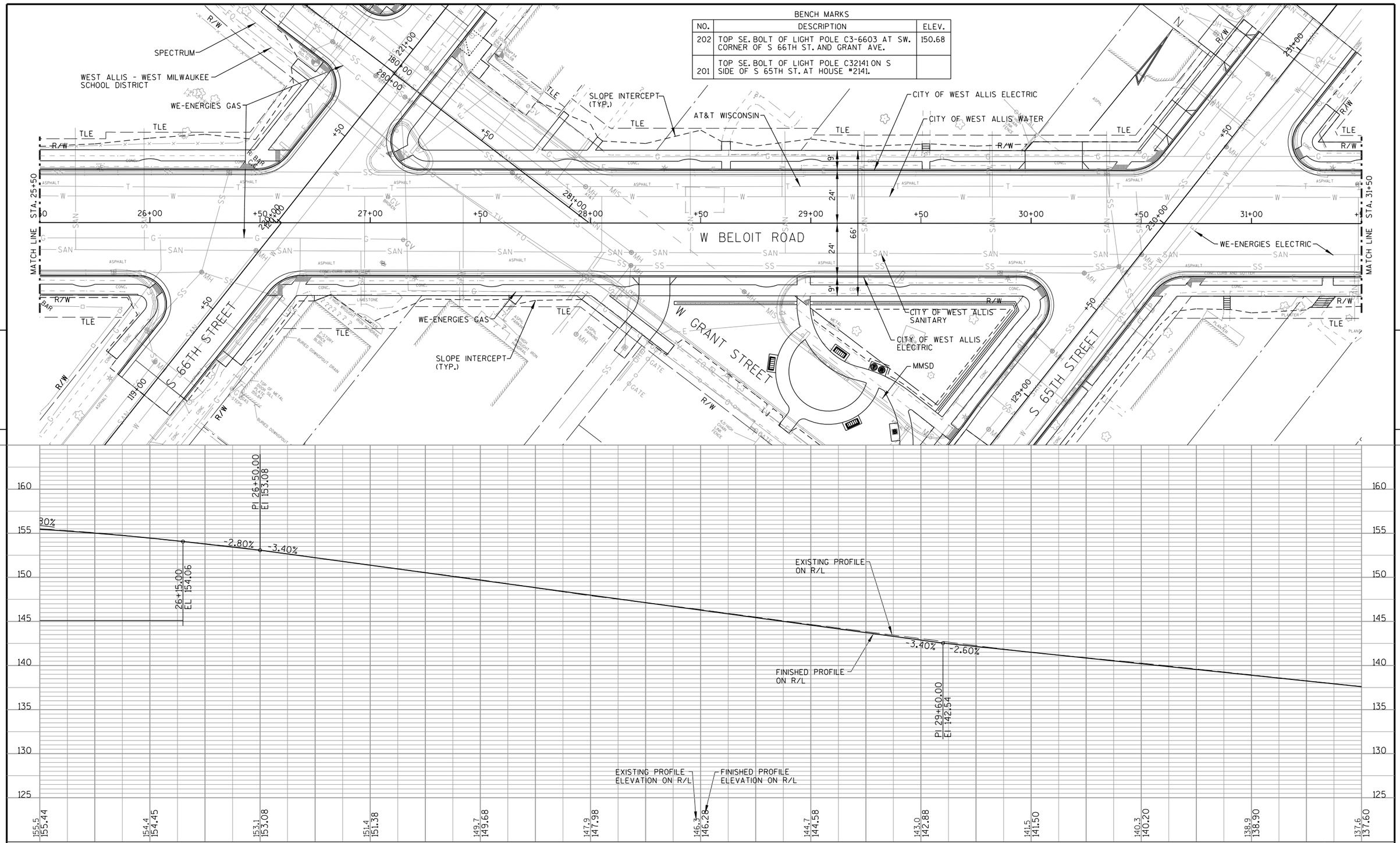
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN AND PROFILE	SHEET 186	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\050102_pp.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 30

BENCH MARKS

NO.	DESCRIPTION	ELEV.
202	TOP SE. BOLT OF LIGHT POLE C3-6603 AT SW. CORNER OF S 66TH ST. AND GRANT AVE.	150.68
201	TOP SE. BOLT OF LIGHT POLE C32141 ON S SIDE OF S 65TH ST. AT HOUSE #2141.	



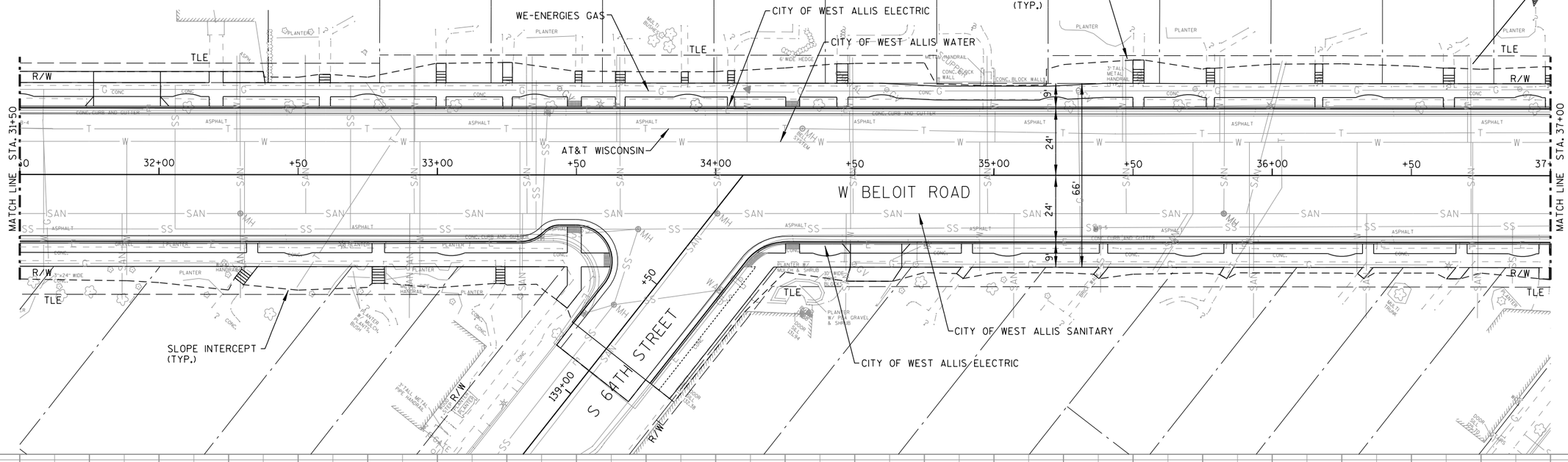
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN AND PROFILE	SHEET 187	E

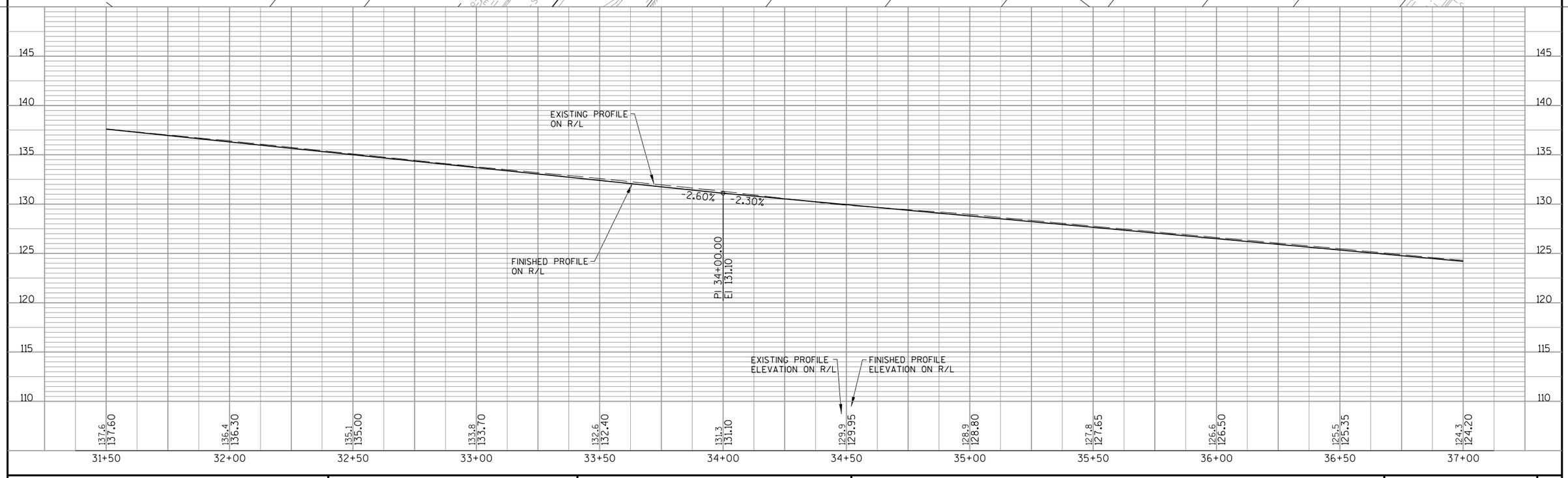
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WISDOT/CADDS SHEET 30

BENCH MARKS

NO.	DESCRIPTION	ELEV.
33	EAST END OF DOOR SILL AT 6424 W BELOIT ROAD.	136.96
78	TOP SE. CORNER OF STOOP TO 6339 W BELOIT ROAD.	131.95

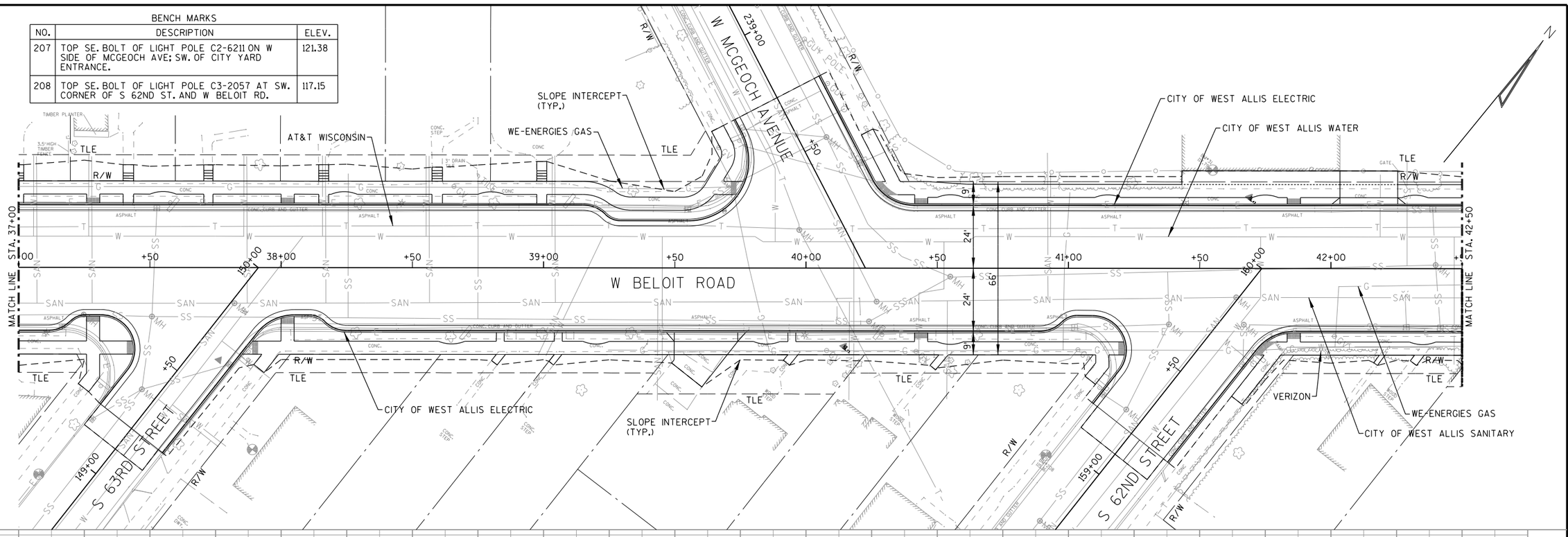


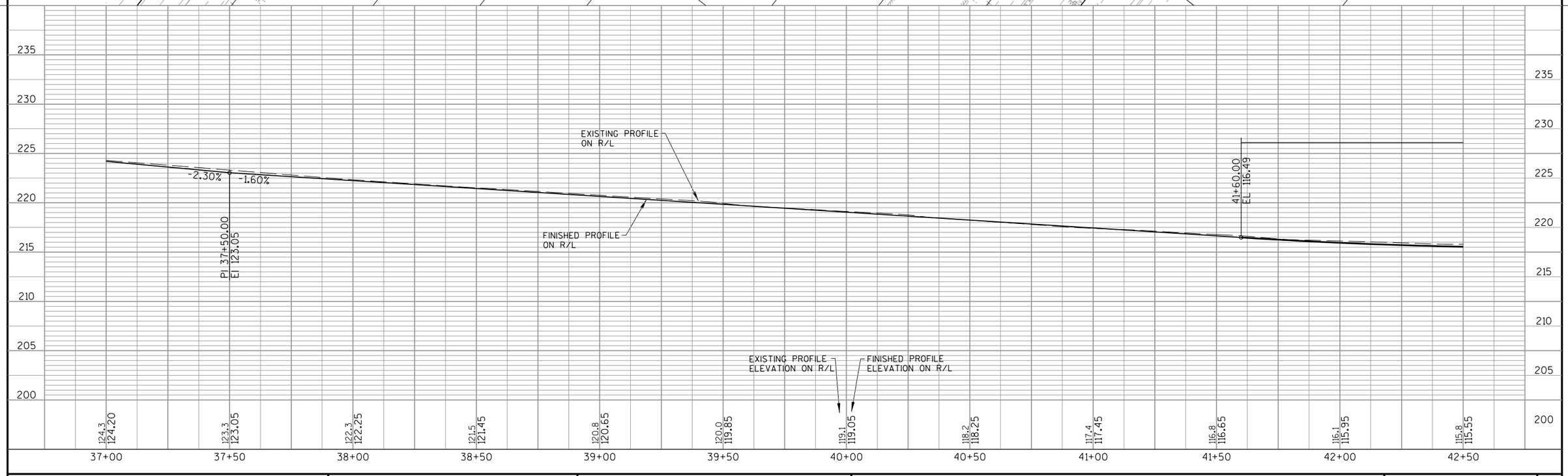


PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN AND PROFILE	SHEET 188	E

BENCH MARKS

NO.	DESCRIPTION	ELEV.
207	TOP SE. BOLT OF LIGHT POLE C2-6211 ON W SIDE OF MCGEOCH AVE; SW. OF CITY YARD ENTRANCE.	121.38
208	TOP SE. BOLT OF LIGHT POLE C3-2057 AT SW. CORNER OF S 62ND ST. AND W BELOIT RD.	117.15

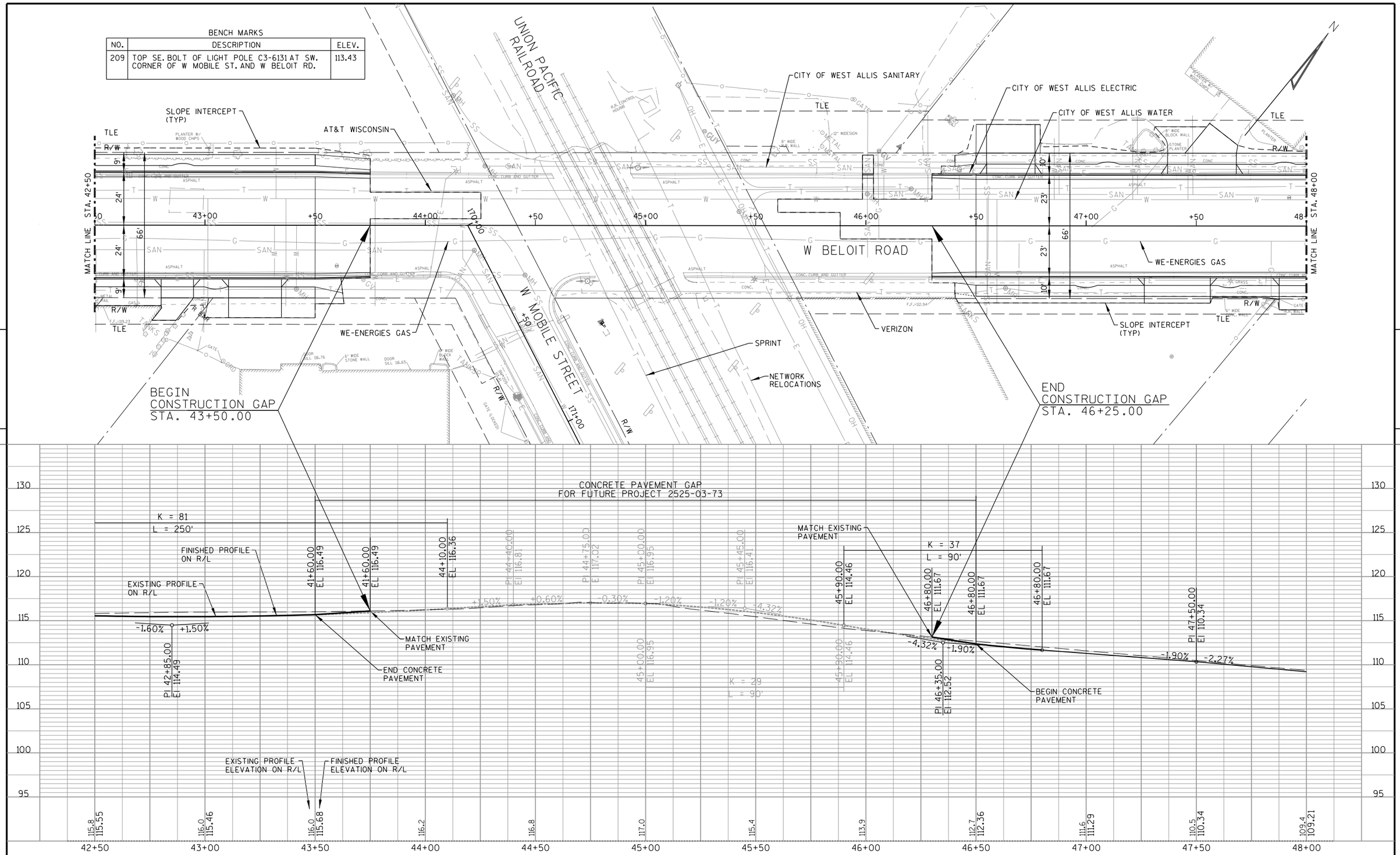




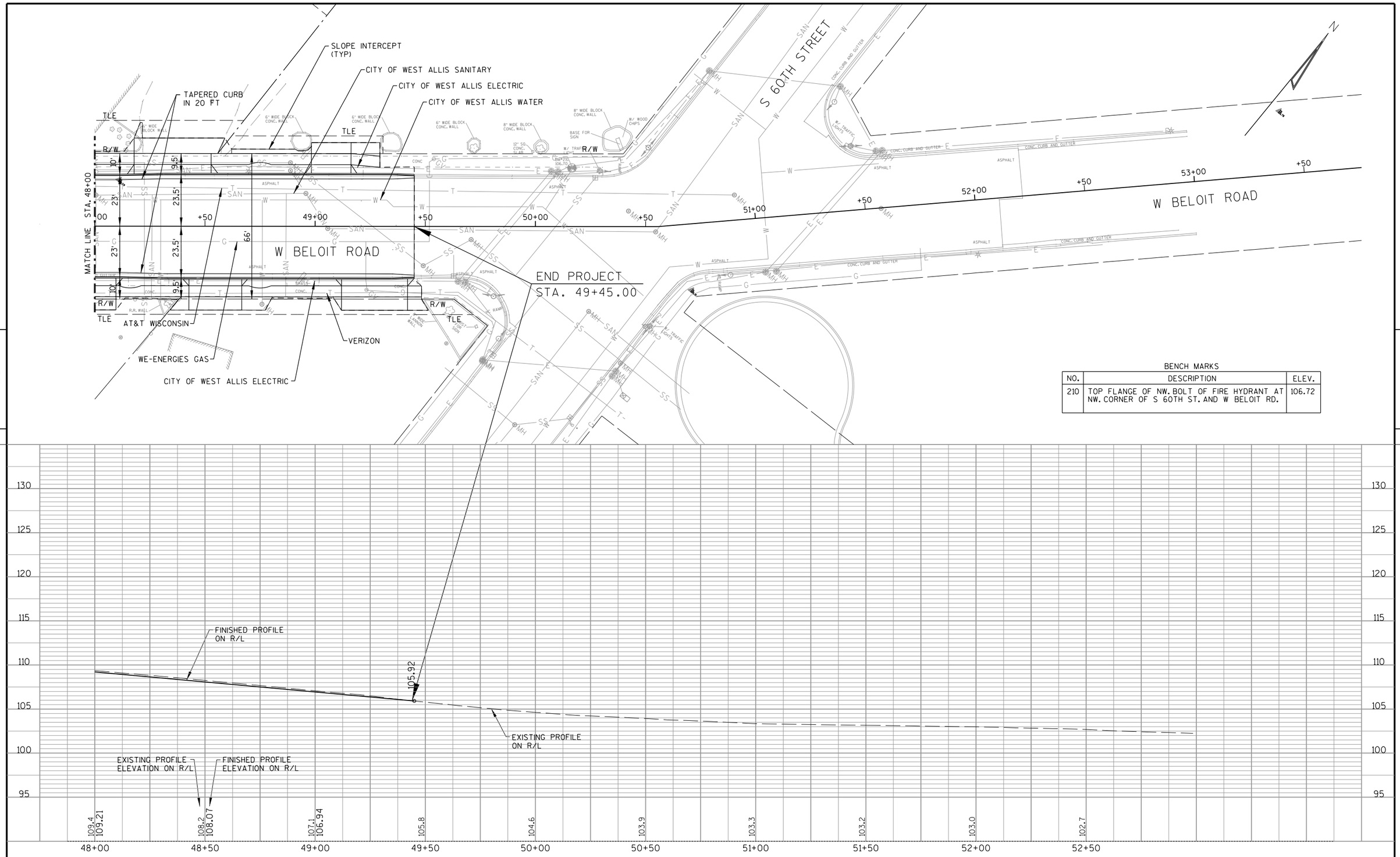
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN AND PROFILE	SHEET 189 E

BENCH MARKS

NO.	DESCRIPTION	ELEV.
209	TOP SE. BOLT OF LIGHT POLE C3-6131 AT SW. CORNER OF W MOBILE ST. AND W BELOIT RD.	113.43



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN AND PROFILE	SHEET 190	E



BENCH MARKS

NO.	DESCRIPTION	ELEV.
210	TOP FLANGE OF NW. BOLT OF FIRE HYDRANT AT NW. CORNER OF S 60TH ST. AND W BELOIT RD.	106.72

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	PLAN AND PROFILE	SHEET 191	E

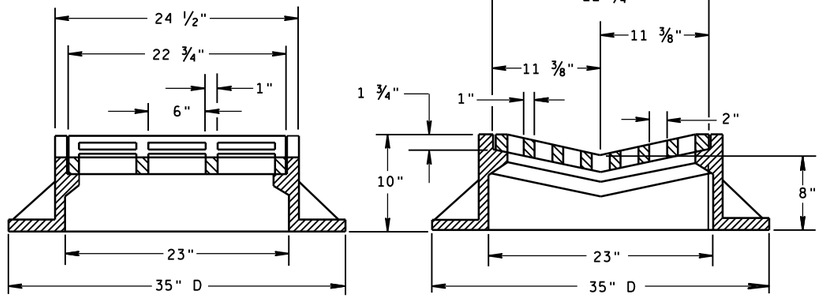
FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\050107_pp.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 40.0000 sf / in.

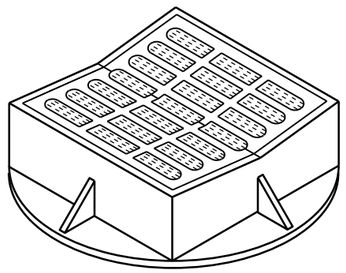
WISDOT/CADDS SHEET 30

Standard Detail Drawing List

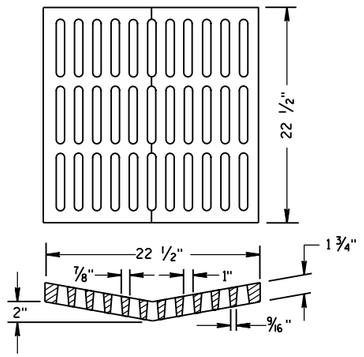
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-03	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08D17-06	MANHOLES, MANHOLE & INLET COVERS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-12	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C11-10	CONCRETE BASE TYPE 10
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D05-02	L30 LIGHTING CONTROL CABINET 240/480 VOLT
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E08-09E	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-09K	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-10	URBAN DOWELED CONCRETE PAVEMENT
13C15-07A	CONCRETE BASE
13C15-07B	CONCRETE BASE
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C19-03	HMA LONGITUDINAL JOINTS
14A02-01	TREE PLANTING DETAIL
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15E	PAVEMENT MARKING FOR BIKE LANES
15C08-22A	LONGITUDINAL MARKING (MAINLINE)
15C08-22D	PAVEMENT MARKING (TURN LANES)
15C09-12A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-06A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C29-07A	BICYCLE LANE MARKING
15D30-07A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-07C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-07J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6



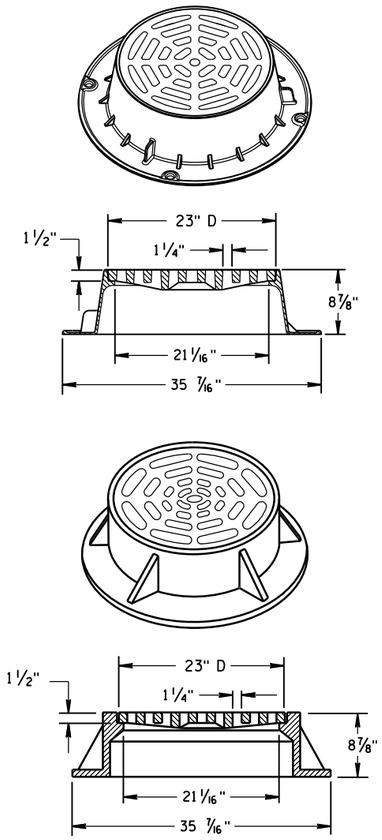


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

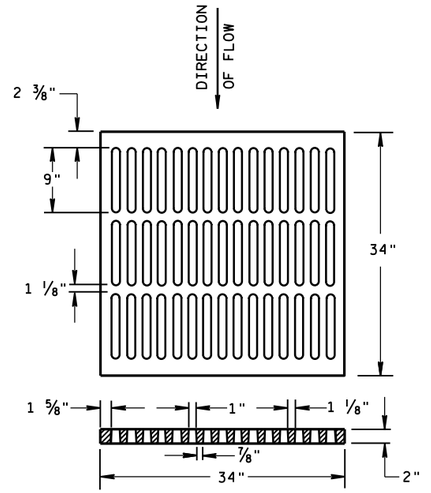
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

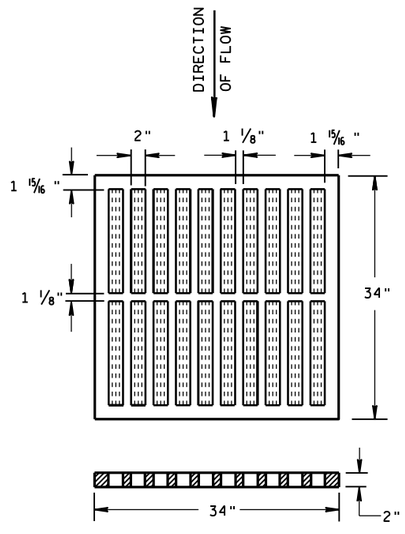
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



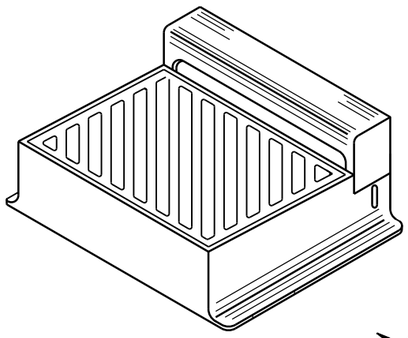
ALTERNATIVE TYPE "MS"

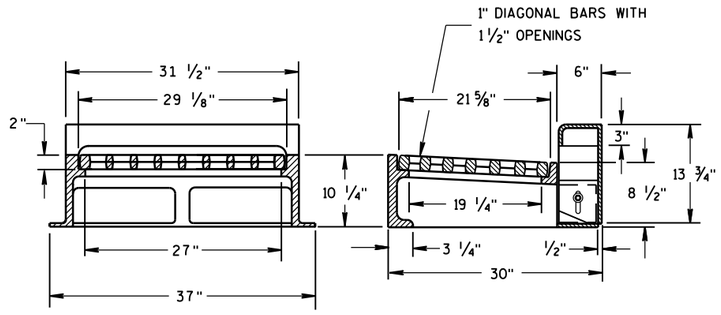
USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE





NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

DIRECTION OF FLOW

DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.

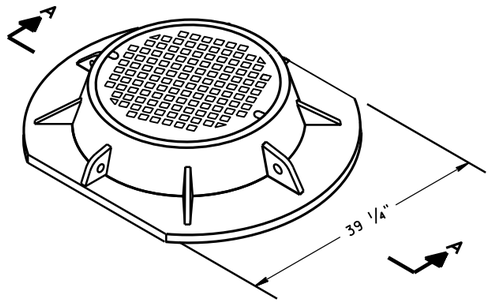
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

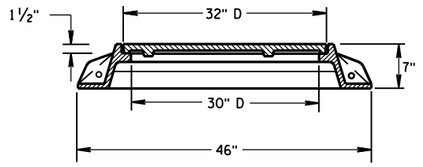
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

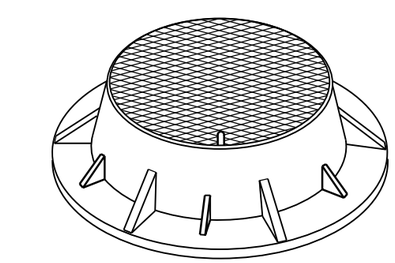
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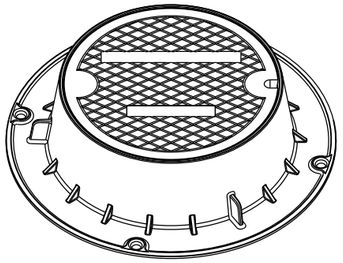
S.D.D. 8 A 5-19b

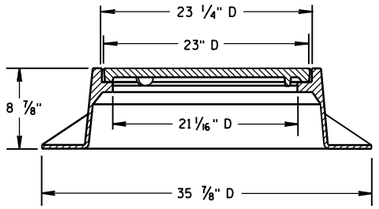


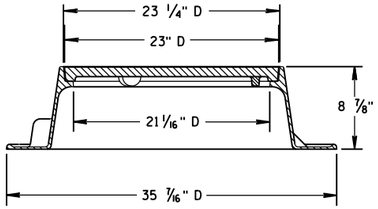


SECTION A-A
TYPE "K"









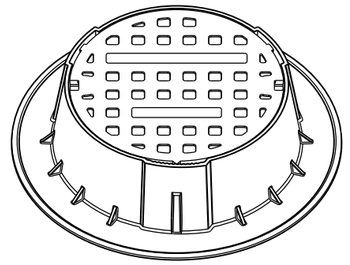
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

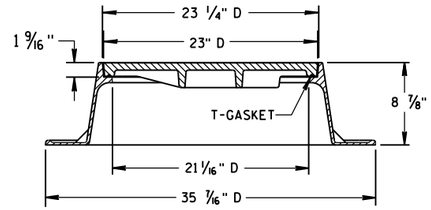
GENERAL NOTES

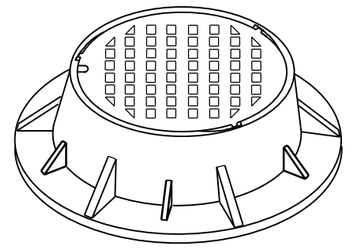
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

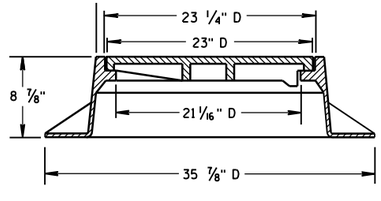
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

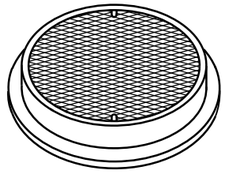


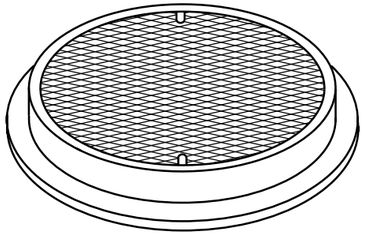


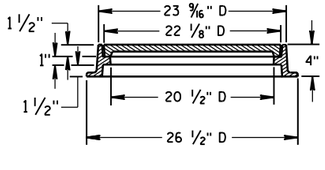




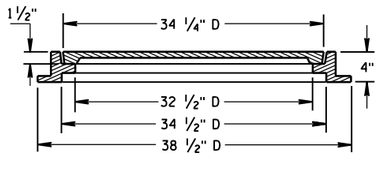
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



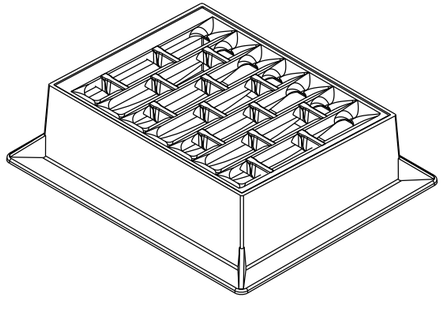


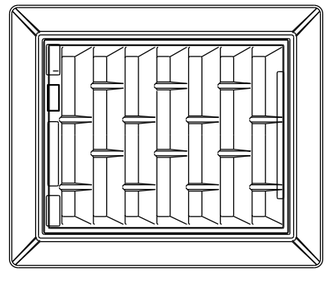


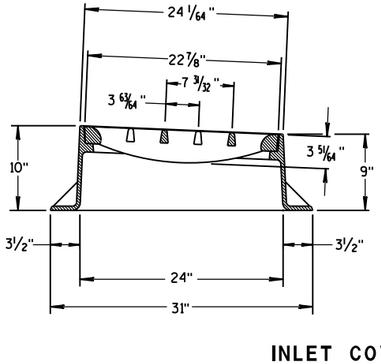
TYPE "L"

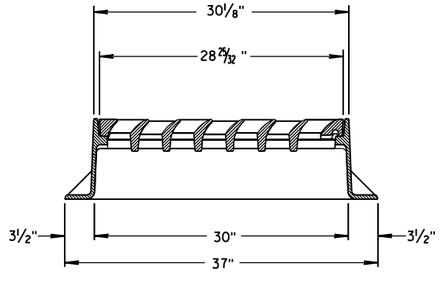


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

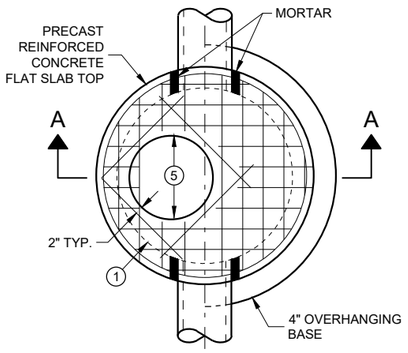
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

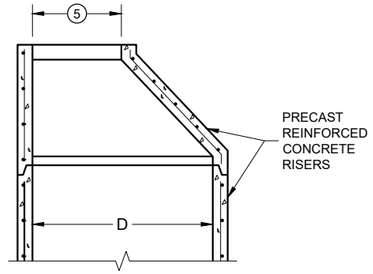
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

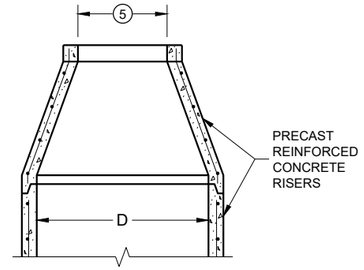
S.D.D. 8 A 5-19d



PLAN VIEW
CIRCULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42*	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

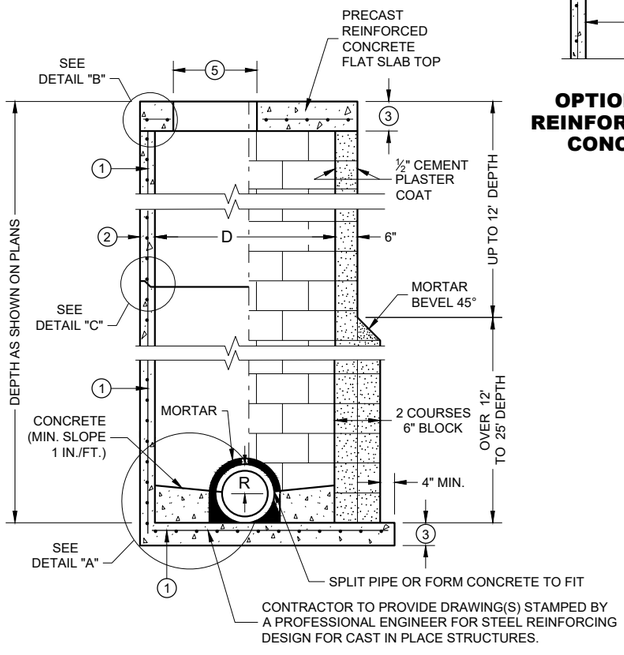
(1) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP.).

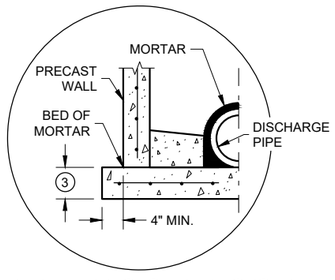
(5) SEE MANHOLE COVER OPENING MATRIX.



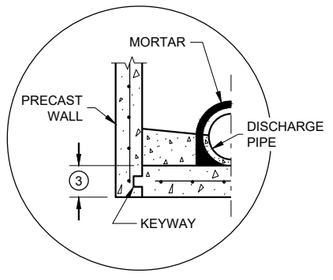
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

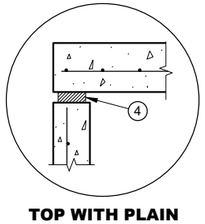


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

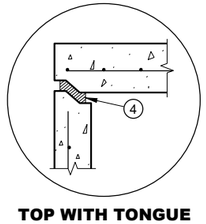


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

DETAIL "A"

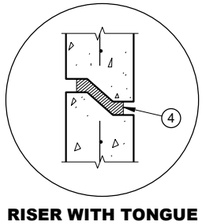


TOP WITH PLAIN END JOINT



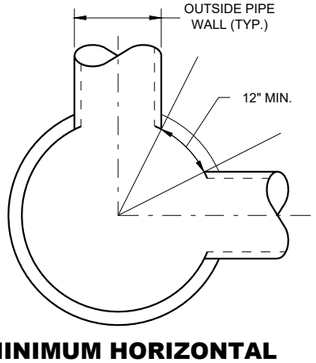
TOP WITH TONGUE AND GROOVE JOINT

DETAIL "B"



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "C"



MINIMUM HORIZONTAL PIPE SEPARATION

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

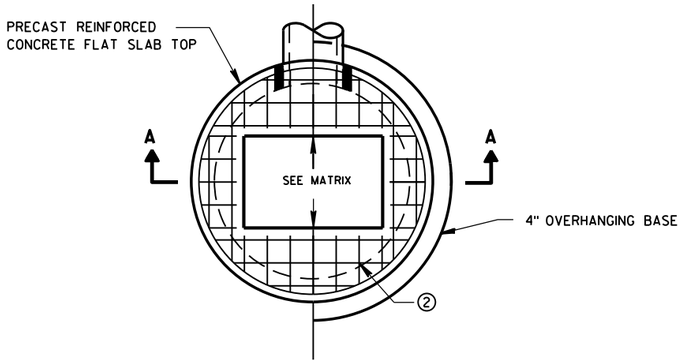
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

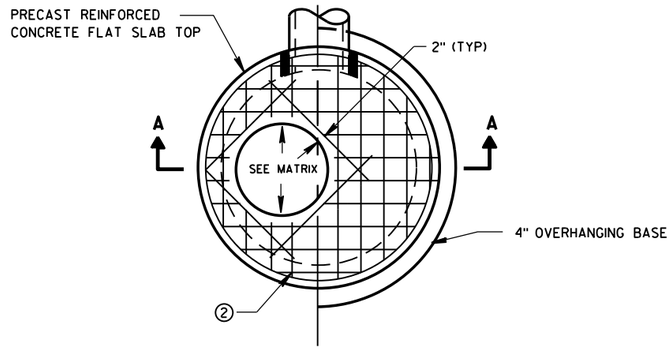
FHWA

SDD 08B09 - 03

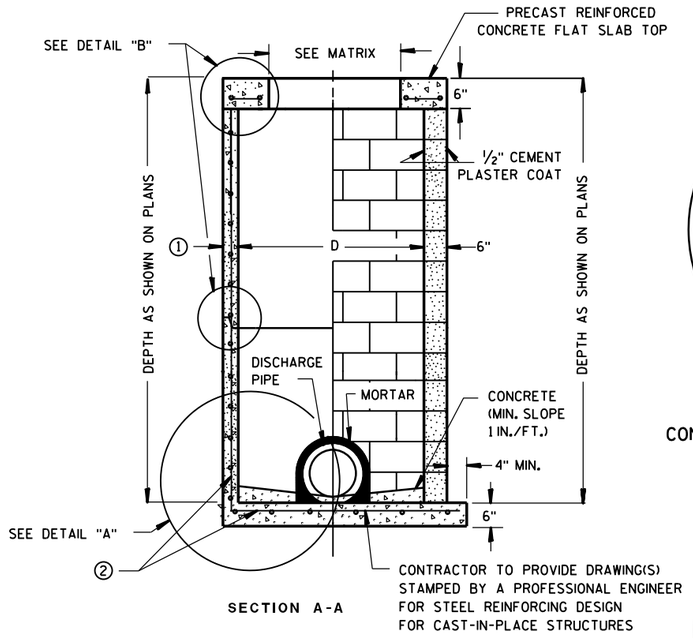
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SDD 08B09 - 03



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

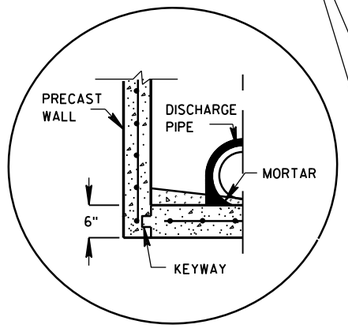


SECTION A-A

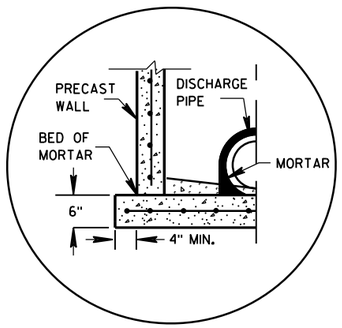
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

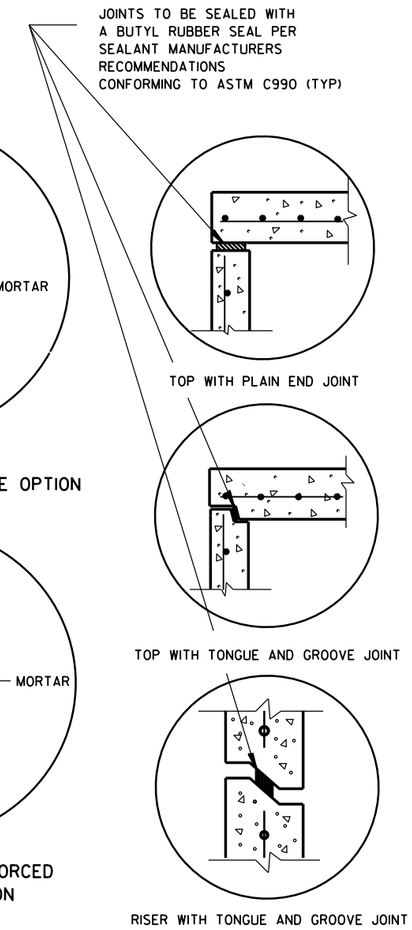


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

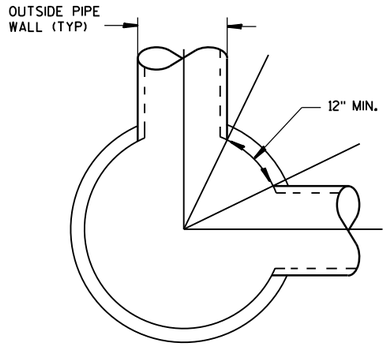
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

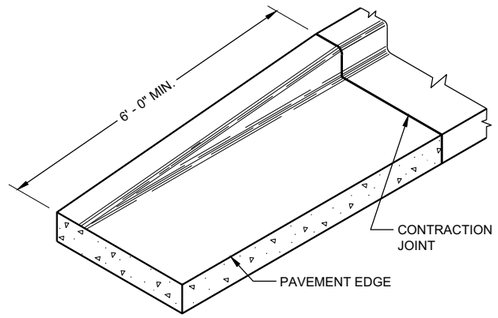
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS | ENT UNIT SUPERVI
FHWA

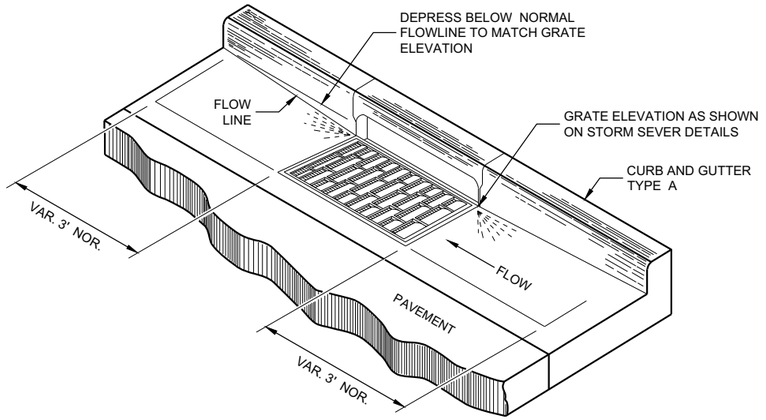
INLETS 3-FT AND 4-FT DIAMETER

6

S.D.D. 8 C 6-2



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

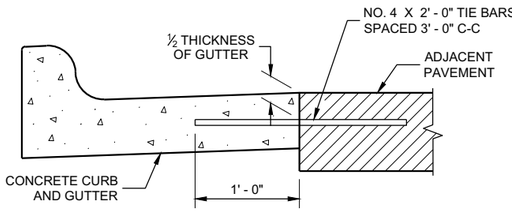
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

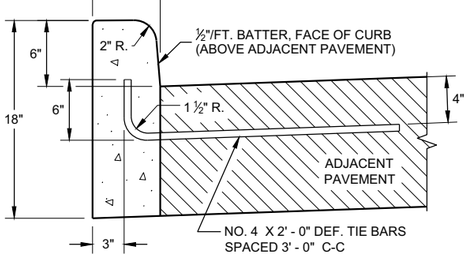
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

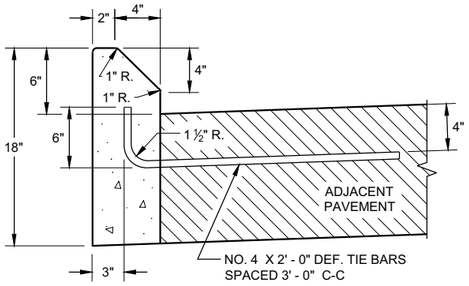
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

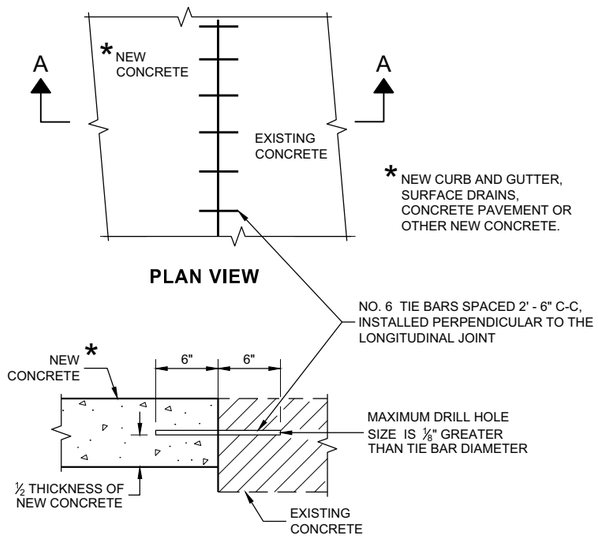


TYPES A (1) & D

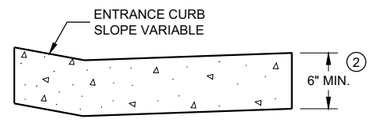


TYPES G (1) & J

CONCRETE CURB



TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

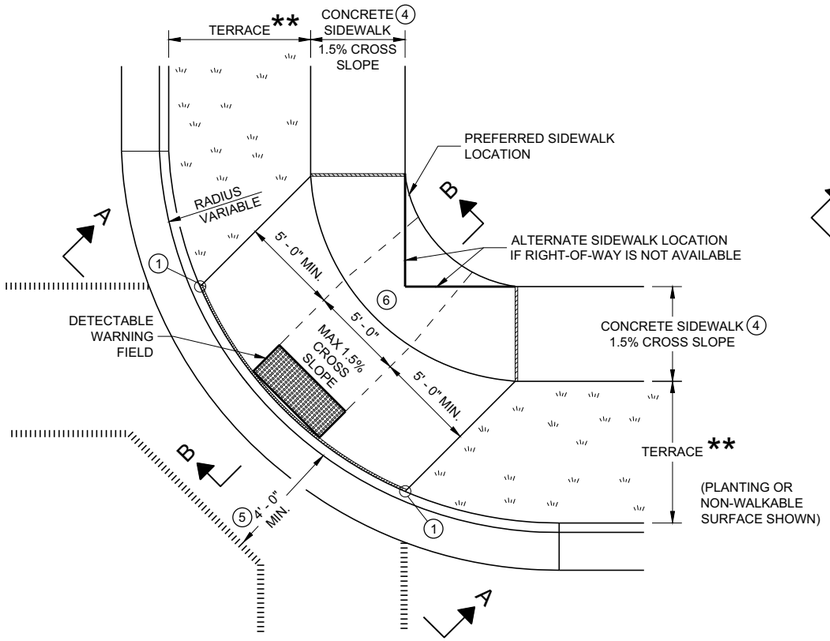
APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

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SDD08D01 - 22b

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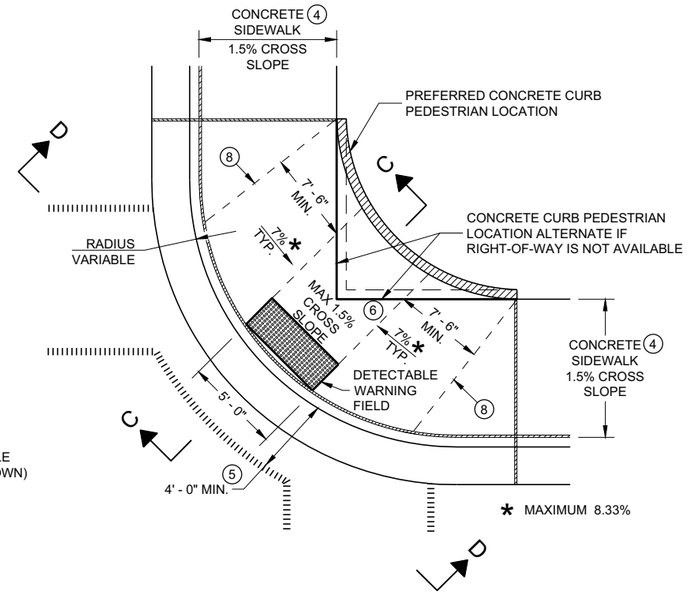
SDD08D01 - 22b



PLAN VIEW

CURB RAMP TYPE 1

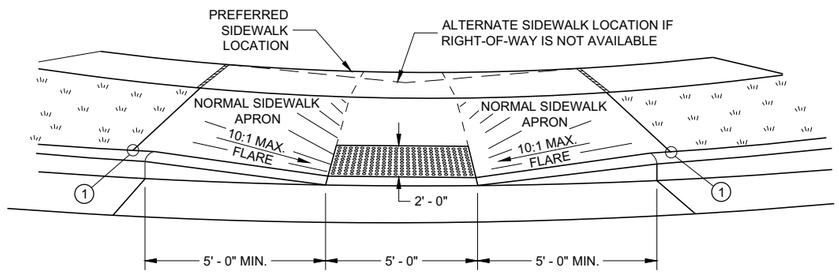
(CENTER OF CORNER RADIUS)



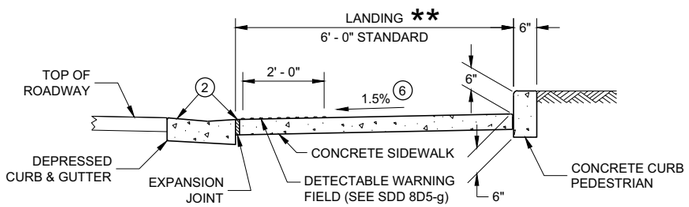
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

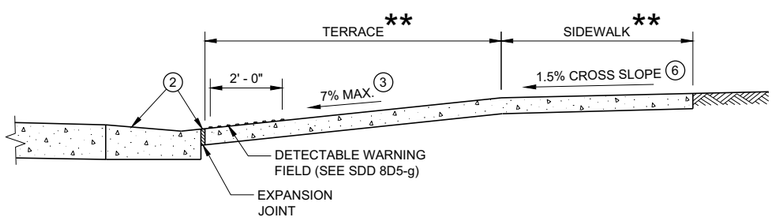


VIEW A - A FOR TYPE 1

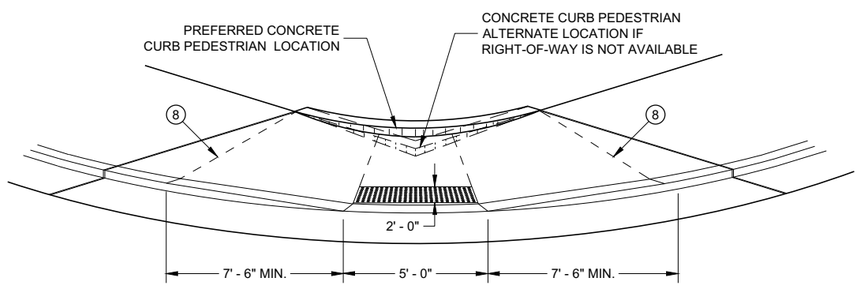


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

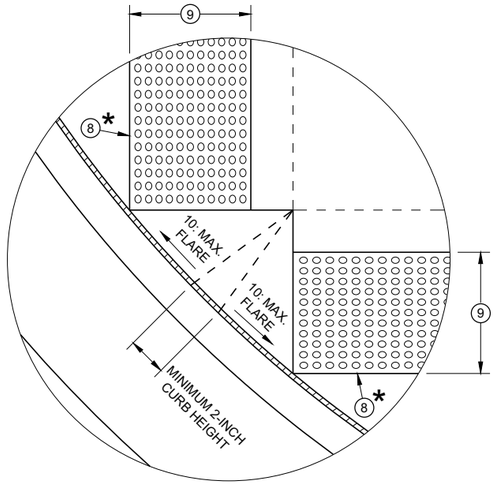
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

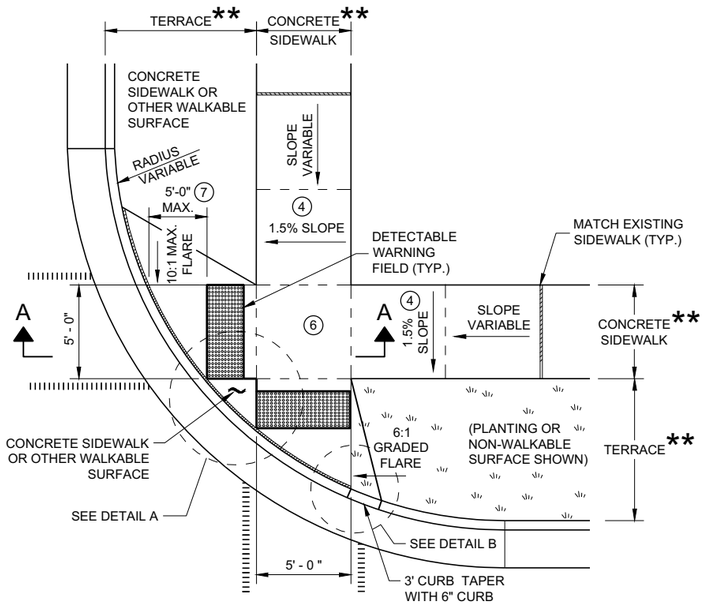
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

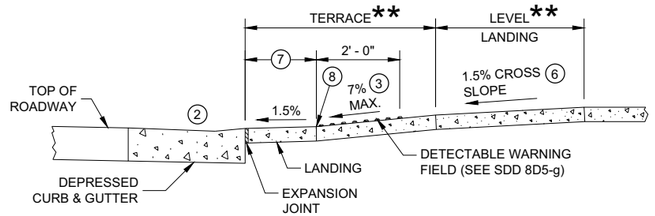
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

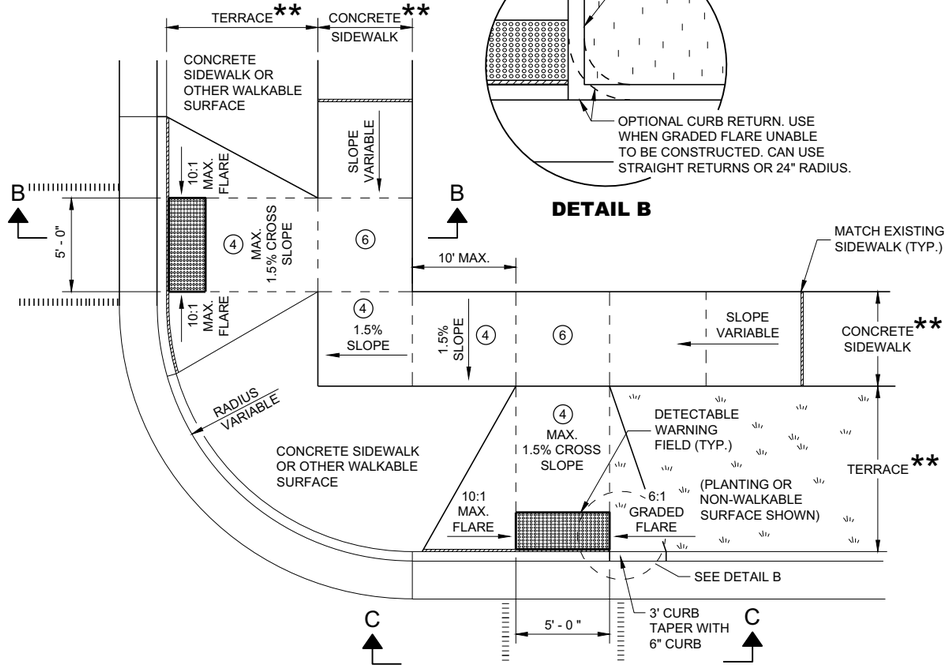
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



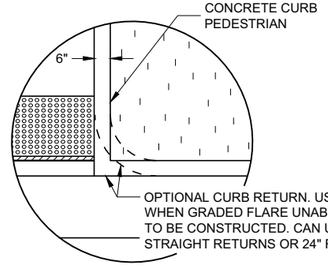
SECTION A - A FOR TYPE 2

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

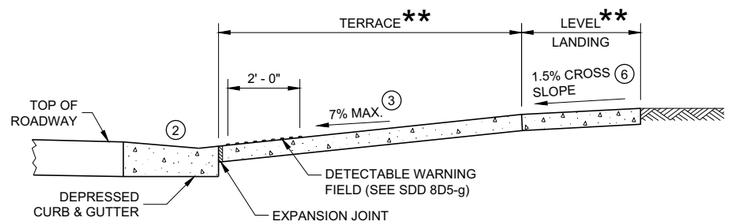
** WIDTH SHOWN ELSEWHERE IN THE PLANS



PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



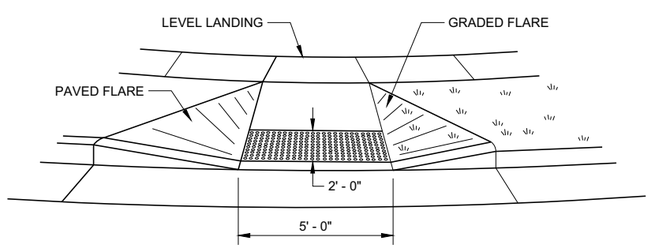
DETAIL B



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



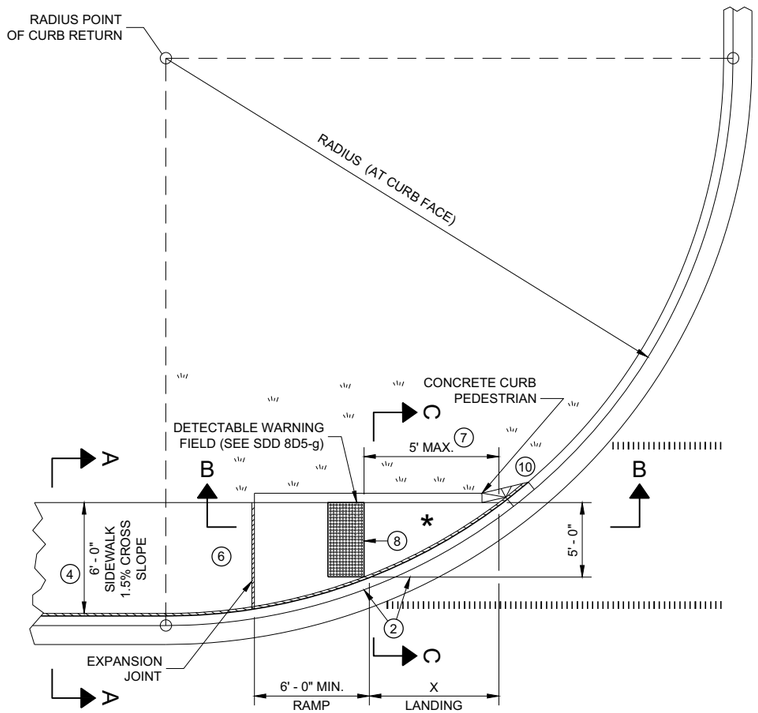
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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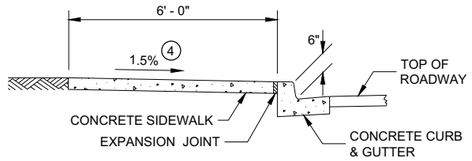


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

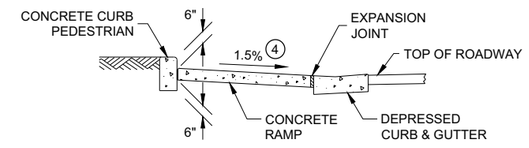
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

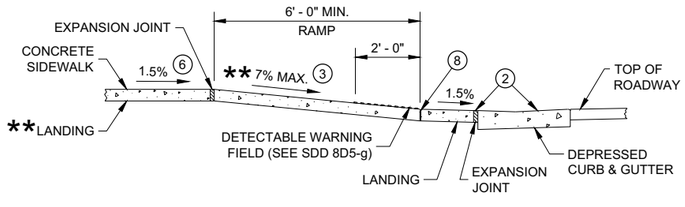
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



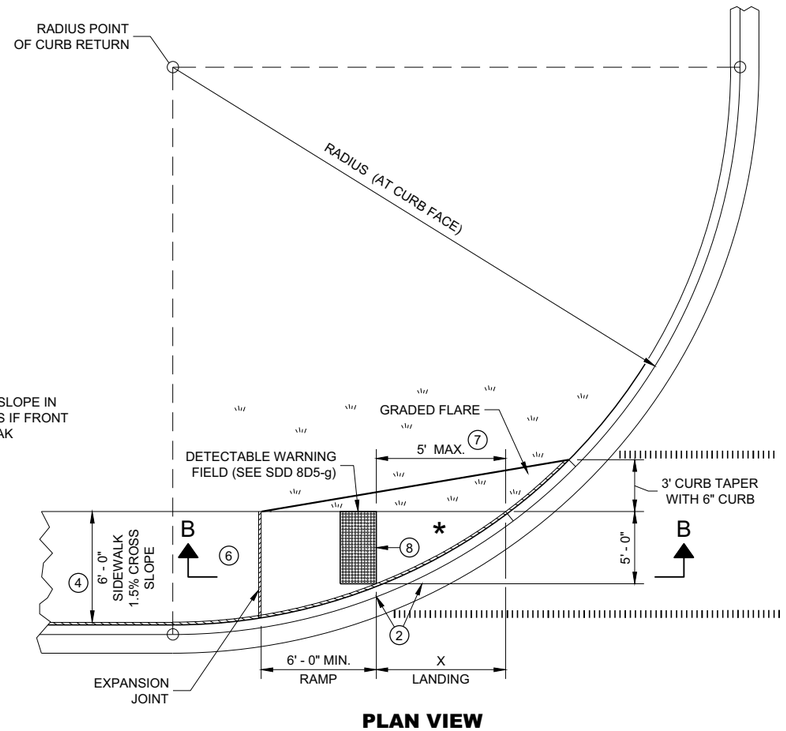
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

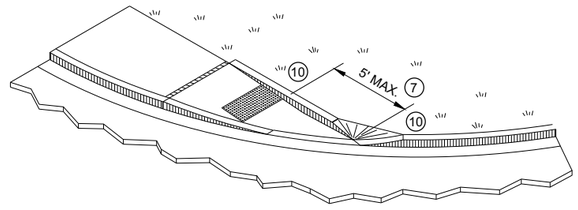
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

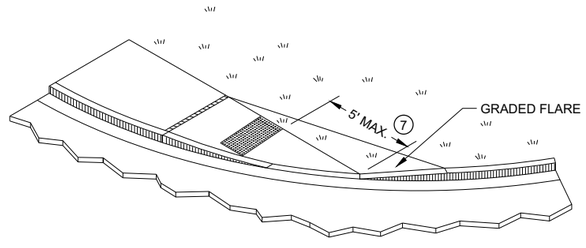


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A

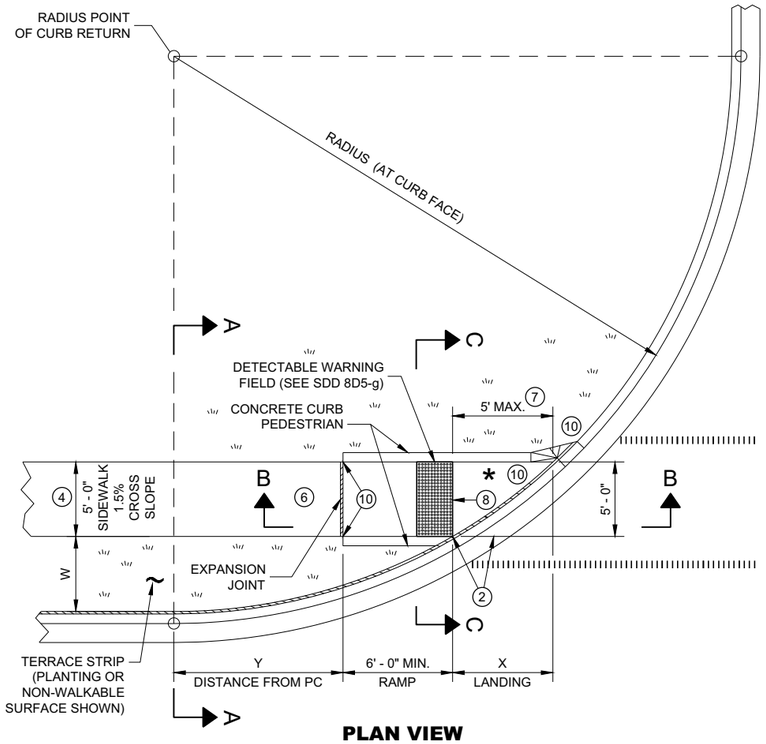


ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05 - 20c

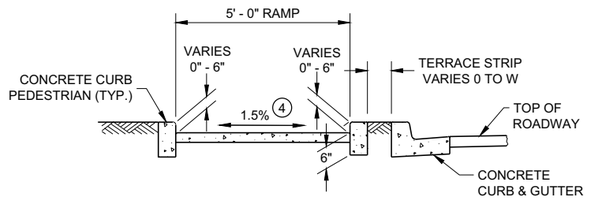


PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C - C FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

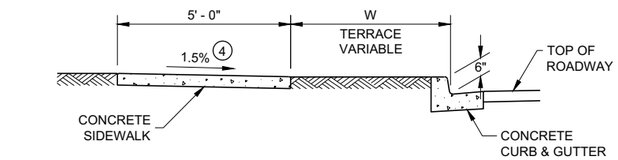
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

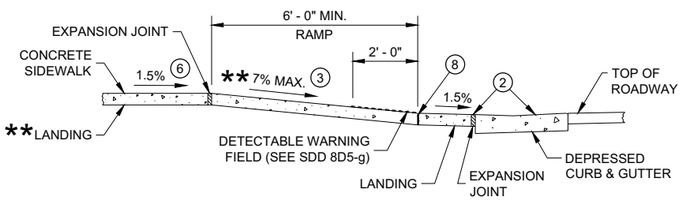
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



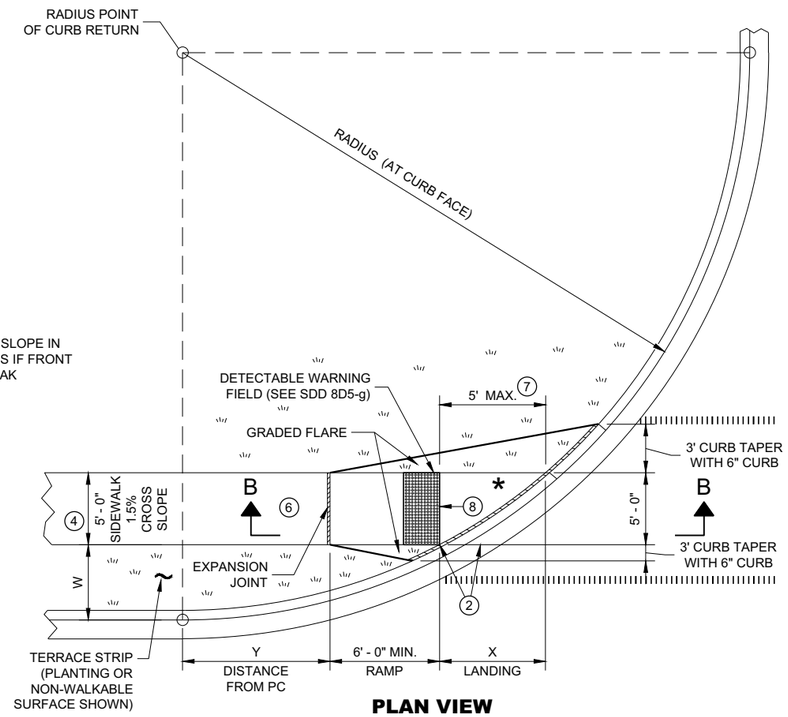
SECTION A - A FOR TYPE 4B



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

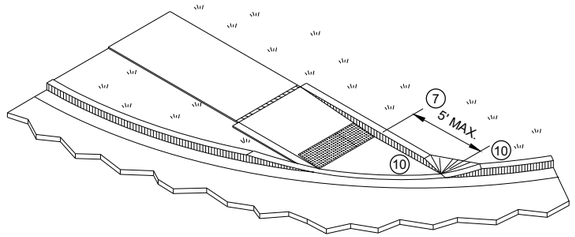
SECTION B - B FOR TYPE 4B AND TYPE 4B1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

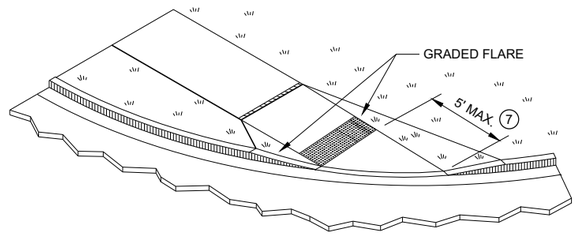


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



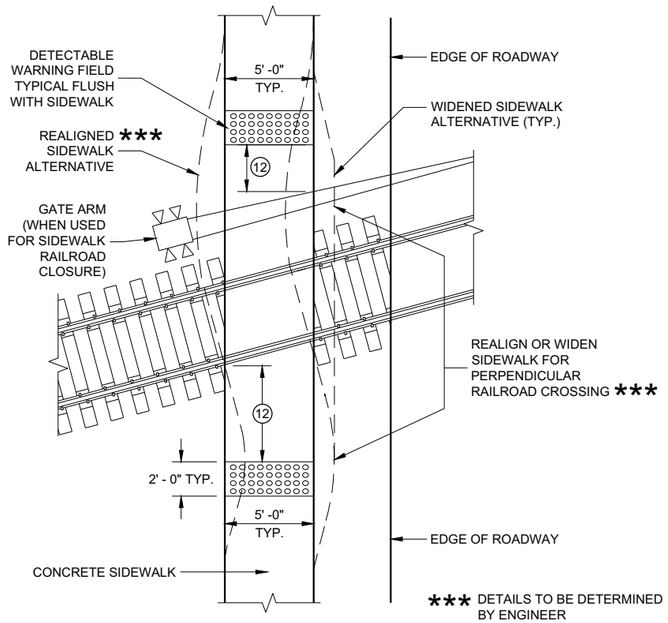
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

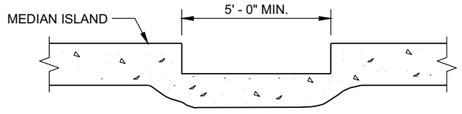
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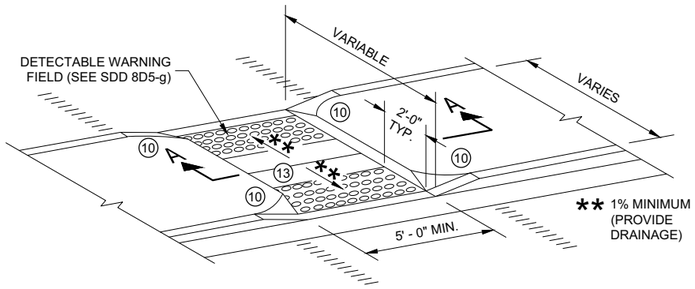


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ½ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

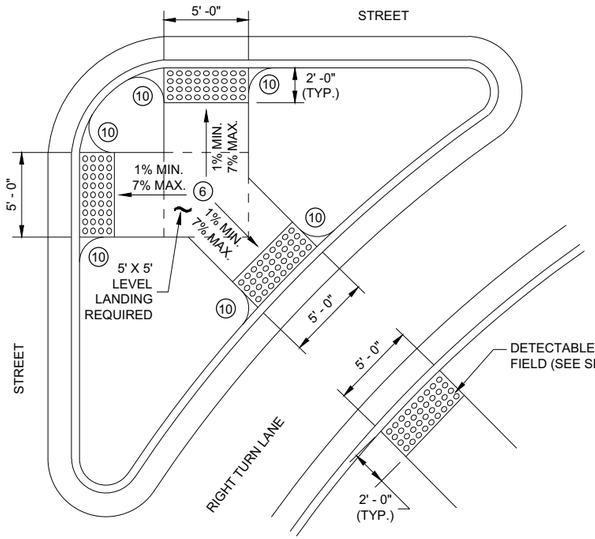
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

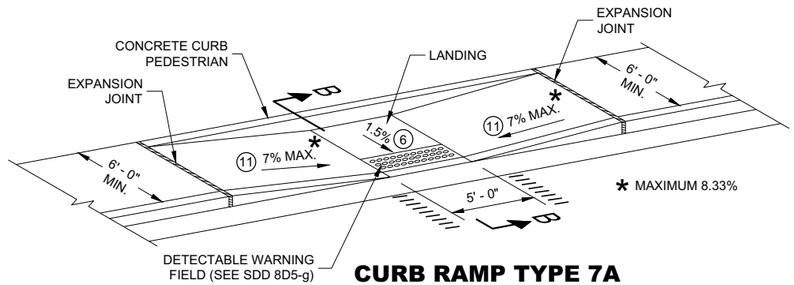
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

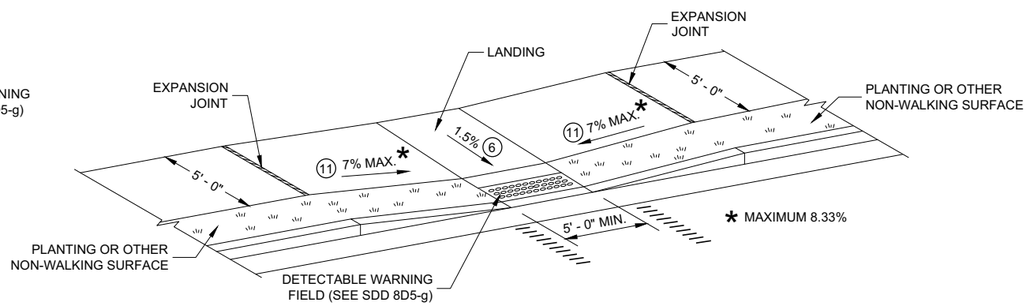
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

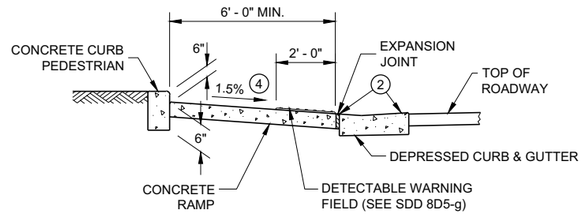
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

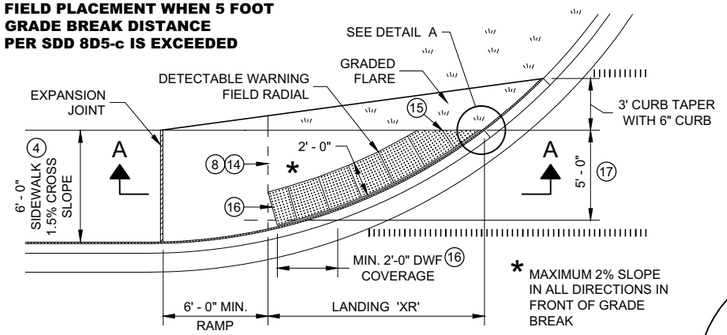
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

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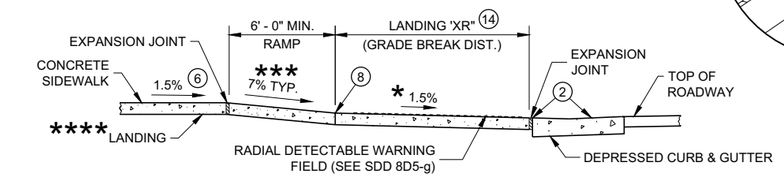
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4A1

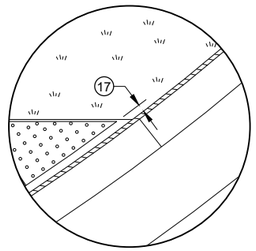
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

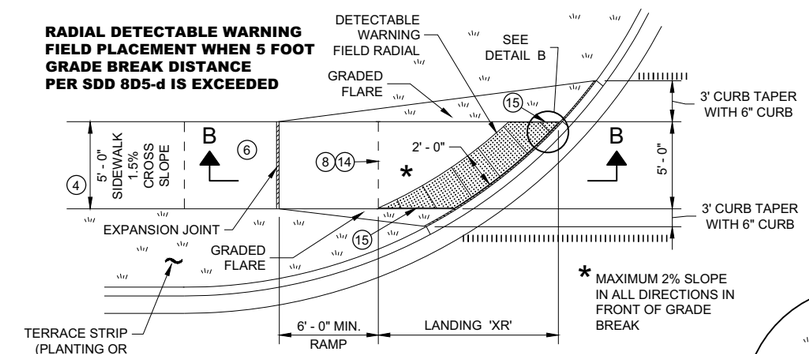
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

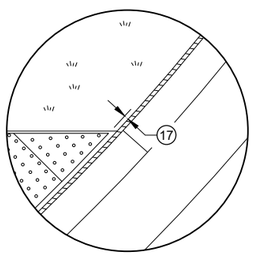
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



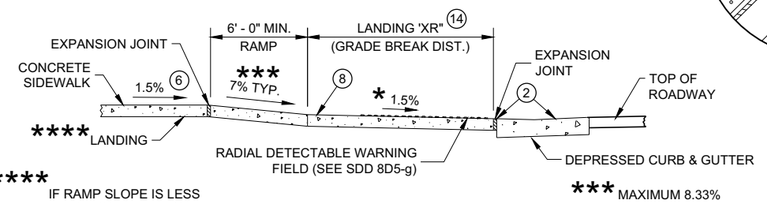
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

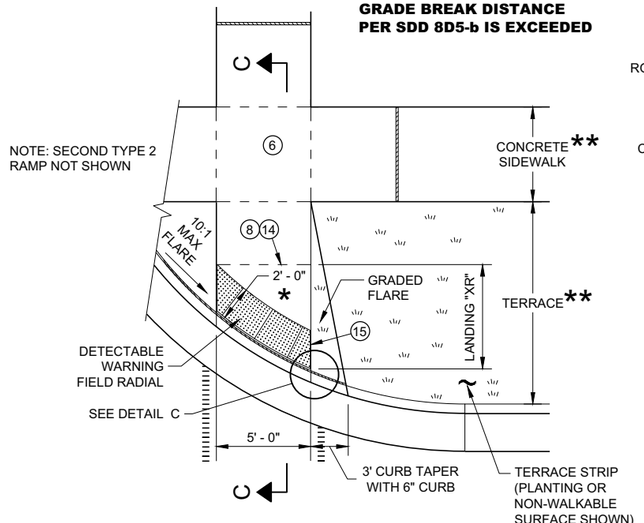


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

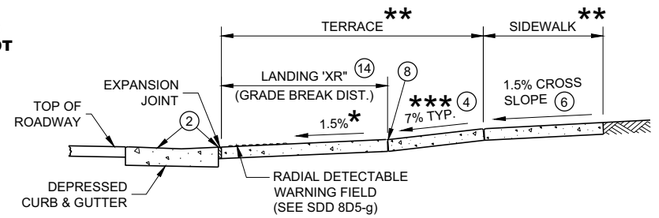


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

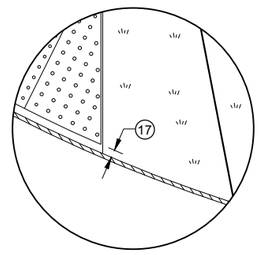


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

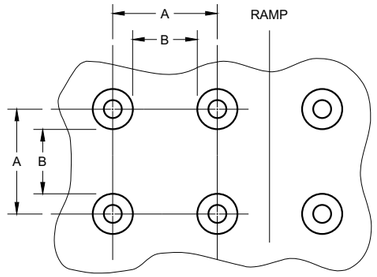
CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

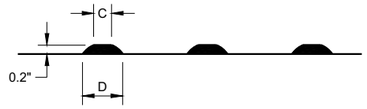
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

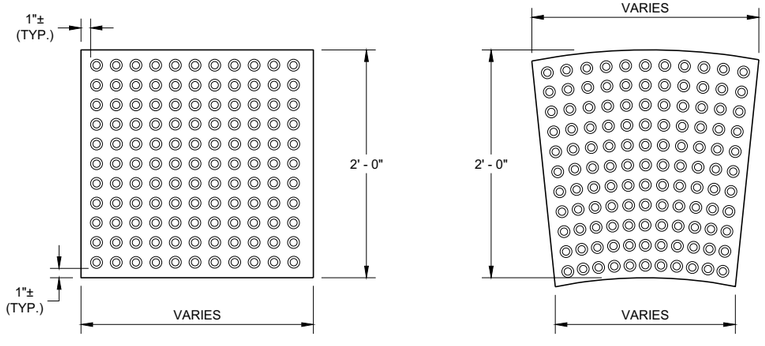


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

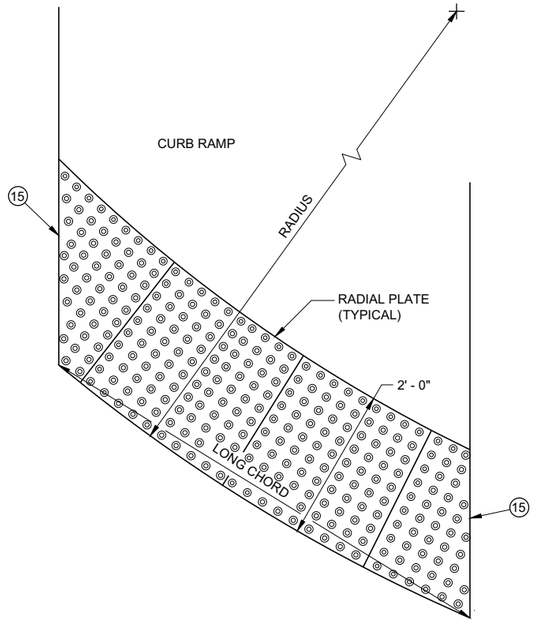
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

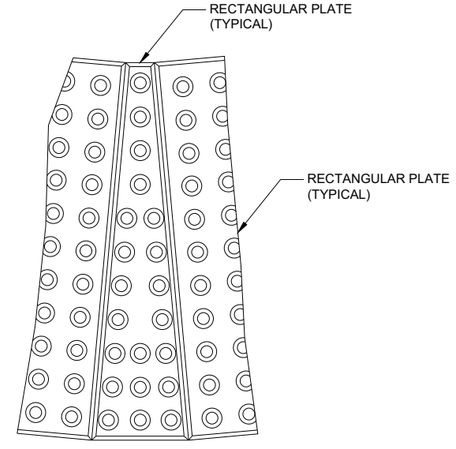
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

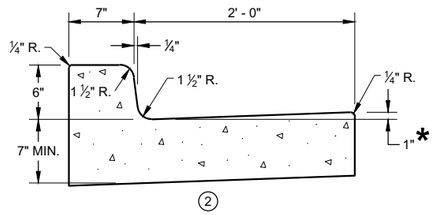
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

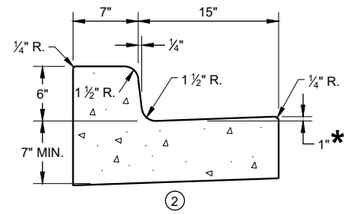
6

SDD 08D05 - 20g

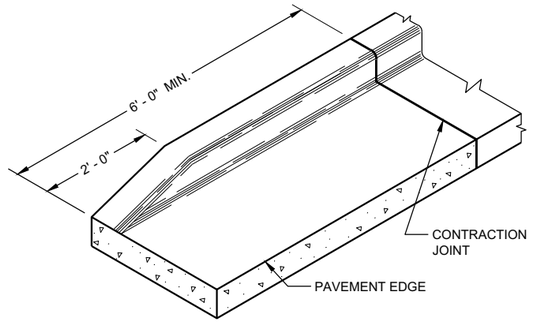


CONCRETE CURB AND GUTTER 31" ①

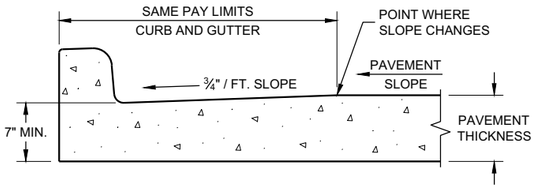
*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



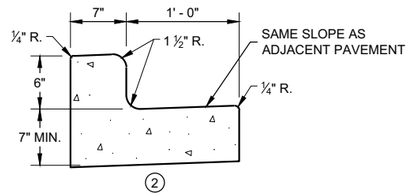
CONCRETE CURB AND GUTTER 22" ①



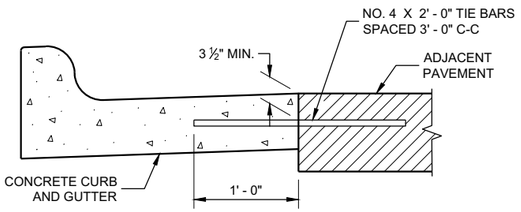
END SECTIONCURB AND GUTTER



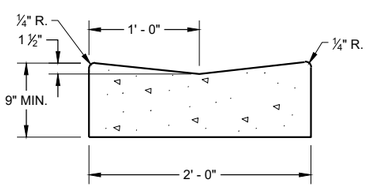
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER



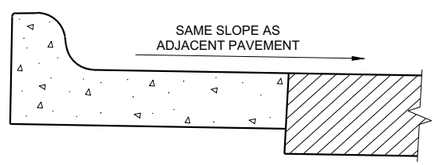
CONCRETE CURB AND GUTTER 19" ①



TYPICAL TIE BAR LOCATION ①



CONCRETE GUTTER 24" ①



HIGH SIDE SECTION ③

(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

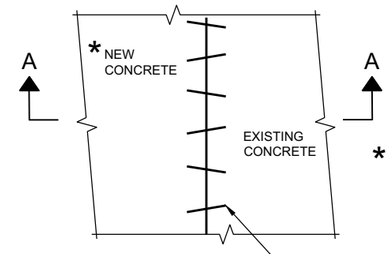
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUITED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

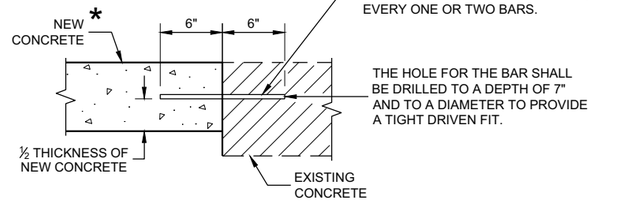
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLANS



*EXISTING AND NEW CONCRETE MAY BE CURB AND GUTTER, SURFACE DRAINS, PAVEMENT OR OTHER CONCRETE STRUCTURE.

PLAN VIEW



SECTION A - A

PAVEMENT TIES

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

(For Optional use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

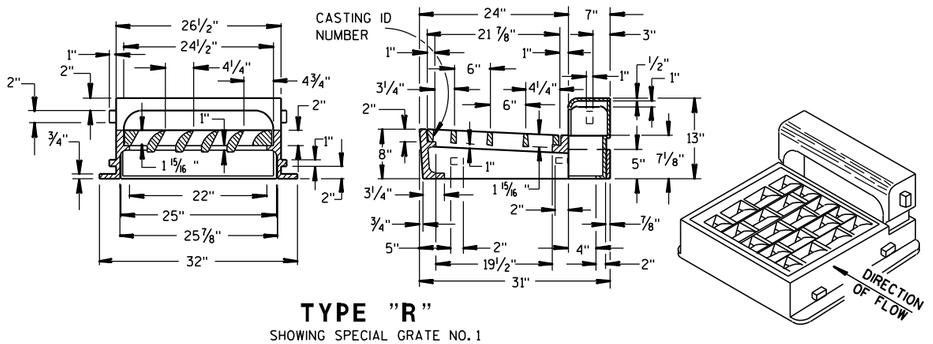
APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD 08D16 - 11

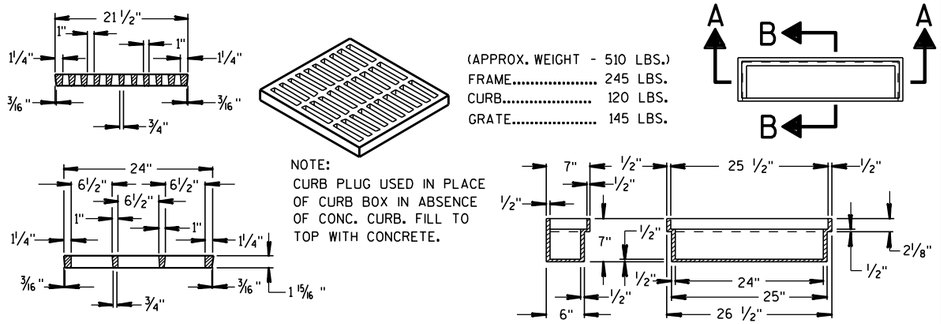
SDD 08D16 - 11

INLET COVERS



TYPE "R"

SHOWING SPECIAL GRATE NO. 1
(TO BE NOTED AS R-1 IN DRAINAGE TABLE)



(APPROX. WEIGHT - 510 LBS.)
FRAME..... 245 LBS.
CURB..... 120 LBS.
GRATE..... 145 LBS.

NOTE:
CURB PLUG USED IN PLACE OF CURB BOX IN ABSENCE OF CONC. CURB. FILL TO TOP WITH CONCRETE.

SECTION B-B SECTION A-A

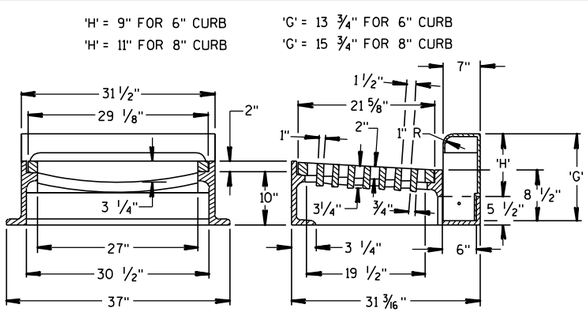
GRATE FOR TYPE "R" INLET COVER

(GRATE..... 150 LBS.)
(TO BE USED UNLESS OTHERWISE NOTED IN DRAINAGE TABLE)

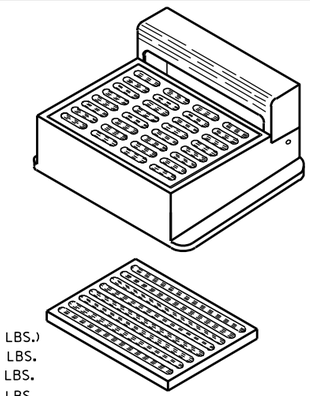
SPECIAL CURB PLUG "P"

(CURB PLUG..... 85 LBS.)
(TO BE NOTED AS R-P IN DRAINAGE TABLE)

'H' = 9" FOR 6" CURB
'H' = 11" FOR 8" CURB
'G' = 13 3/4" FOR 6" CURB
'G' = 15 3/4" FOR 8" CURB



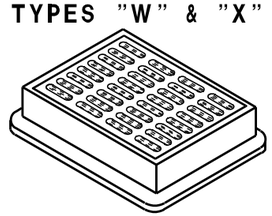
TYPE "W"

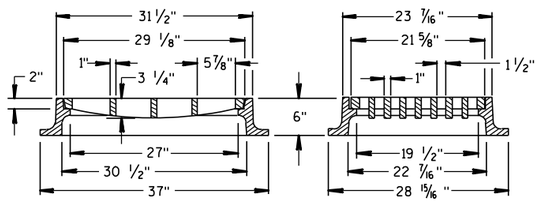


(APPROX. WEIGHT - 670 LBS.)
FRAME..... 350 LBS.
CURB BOX..... 135 LBS.
GRATE..... 185 LBS.

ALTERNATE GRATE
(FOR EXPRESSWAY RAMPS)

TYPES "W" & "X"

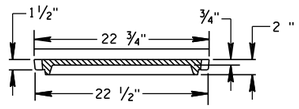




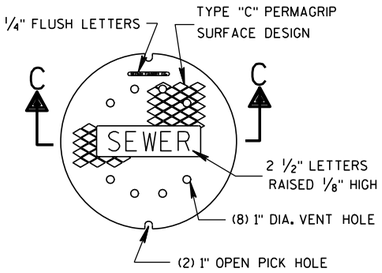
TYPE "X"

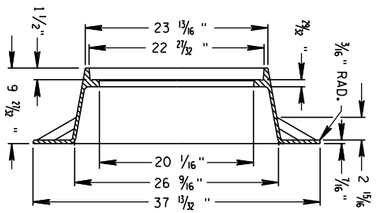
(APPROX. WEIGHT - 470 LBS.)

MANHOLE COVER



SECTION C-C

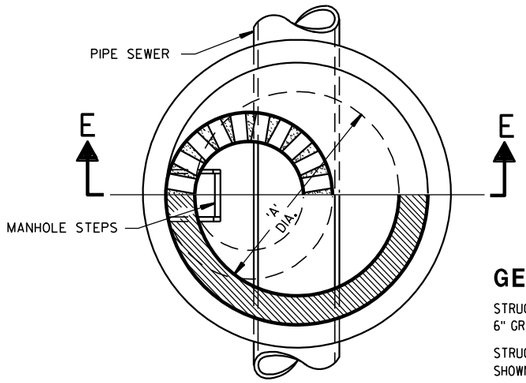




TYPE "Q"

(APPROX. WEIGHT - 290 LBS.)

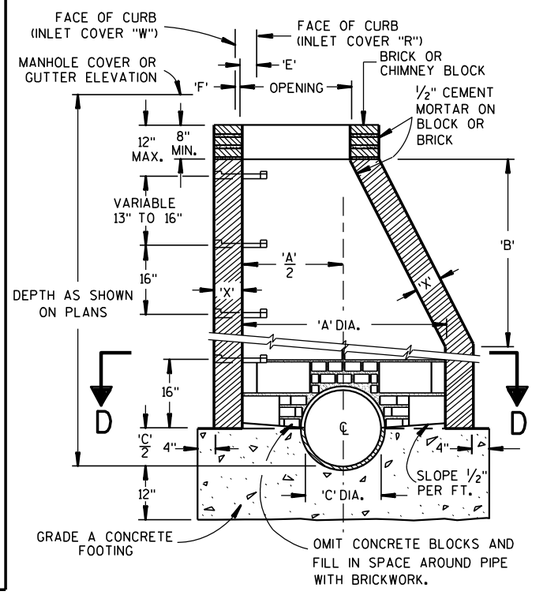
MANHOLE



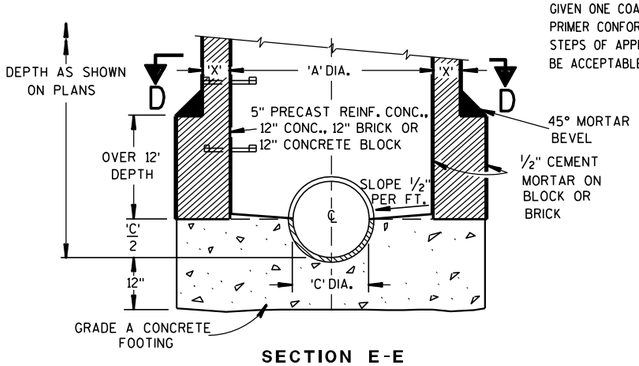
HALF SECTION D-D

TABLE OF OPENING DIMENSIONS

COVER TYPE	COVER DESCRIPTION	OPENING	'E'	'F'
"O"	ROUND	2'-2" DIA.	—	—
"W"	CURB BOX	1'-8" X 2'-6"	—	1"
"X"	INLET	1'-10" X 2'-6"	—	—
"R"	CURB BOX	2'-0" X 2'-1"	4"	—



SECTION E-E



SECTION E-E

TYPES 11, 12, 13 & 14

TABLE OF DIMENSIONS

TYPE	'A'	'B'	'C'
11	3'-6"	2'-8"	12" - 36"*
12	4'-0"	3'-8"	12" - 42"**
13	5'-0"	5'-8"	42" - 48"
14	6'-0"	7'-8"	54" - 60"

* 12" - 21" FOR PRECAST MANHOLES
** 12" - 24" FOR PRECAST MANHOLES

THE FIRST STEP SHALL BE PLACED 16" ABOVE THE BENCH.

GENERAL NOTES

STRUCTURE WALL THICKNESS 'X' TO BE 8" BRICK, 6" CONCRETE BLOCK, 6" GRADE A CONCRETE OR 5" PRECAST REINFORCED CONCRETE.

STRUCTURE FOOTINGS ARE TO BE GRADE A CONCRETE OF THE THICKNESS SHOWN IN THE DETAIL OR 5" PRECAST REINFORCED CONCRETE.

REINFORCEMENT FOR 5" PRECAST REINFORCED CONCRETE SHALL BE 6" X 6" W16 X W16 WELDED SREEL WIRE FABRIC AND SHALL BE EMBEDDED 2" CLEAR.

PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

PRECAST CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6" IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACK-FILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON THE PLANS.

THE CONTRACTOR MAY FORM AND POUR MONOLITHIC CONCRETE INVERT PROVIDED THE PIPE ENDS ARE EXTENDED INTO THE M.H. AND NOT TERMINATED WITHIN THE M.H. WALLS.

MANHOLE STEPS

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH; 16 INCH C-C MAX. SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM WALL EMBEDMENT OF 3 INCHES IN PRECAST MANHOLE AND 6 INCHES IN 8 INCH BRICK OR 6 INCH BLOCK MANHOLE; TREAD OF STEP SHALL HAVE A NON-SKID SURFACE AND BE FLANKED BY CLEATS, WITH A MINIMUM OF 10 INCHES CLEAR BETWEEN CLEATS, TO PREVENT FOOT SLIPPING OFF THE EDGE CLEATS SHALL BE A MINIMUM OF 3/4 INCH HIGH BY 3/4 INCH WIDE HAVING A MINIMUM THICKNESS OF 5/8 INCH. STEPS SHALL BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 LBS. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

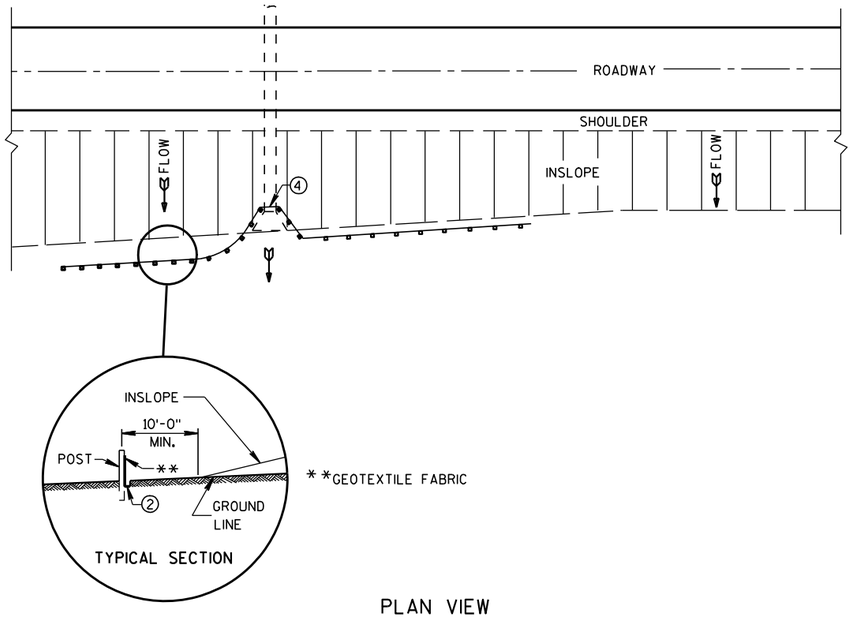
SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT. STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCING BAR WILL BE ACCEPTABLE.

MANHOLES, MANHOLE & INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

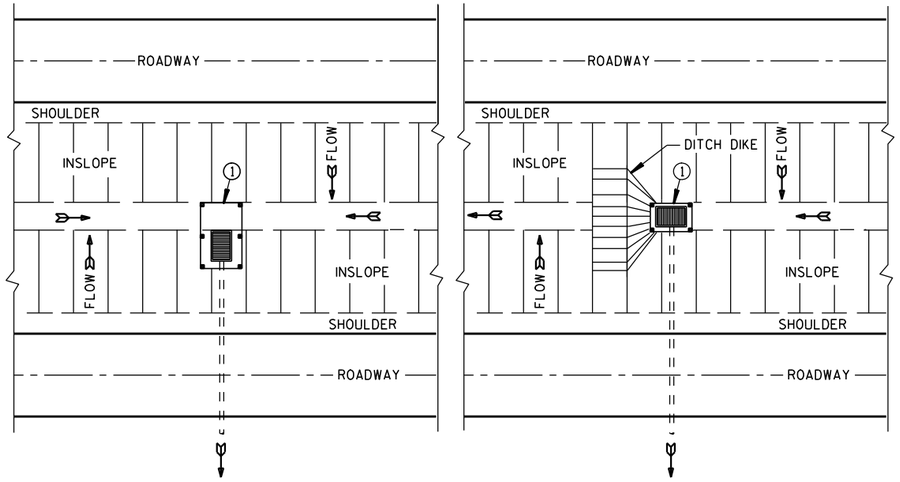
APPROVED
4/12/2011 — DATE
/S/ Jerry H. Zogg — ROADSIDE STANDARDS ENGINEER
FHWA

6
S.D.D. 8 D 17-6



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



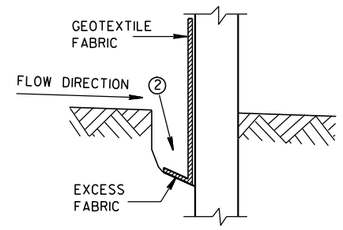
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

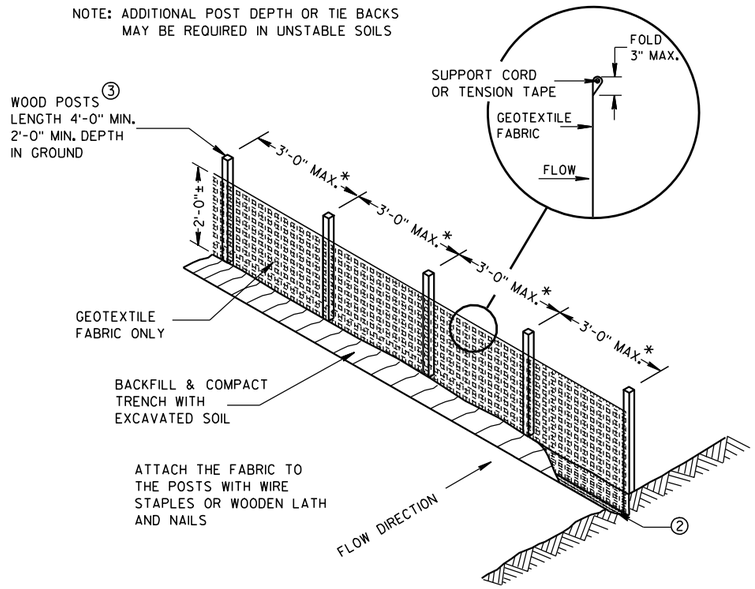
GENERAL NOTES

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

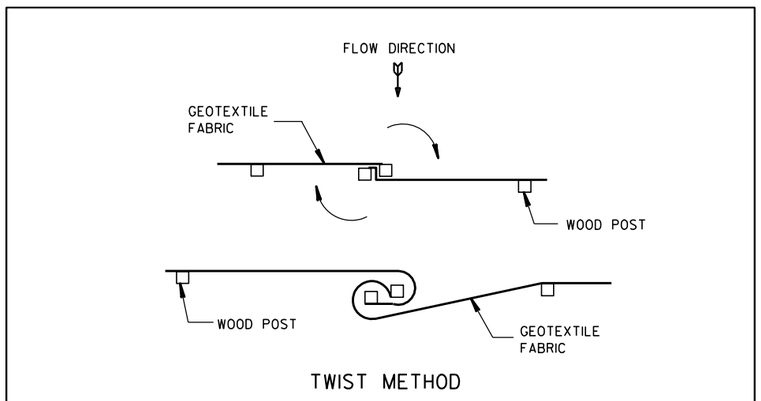
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL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



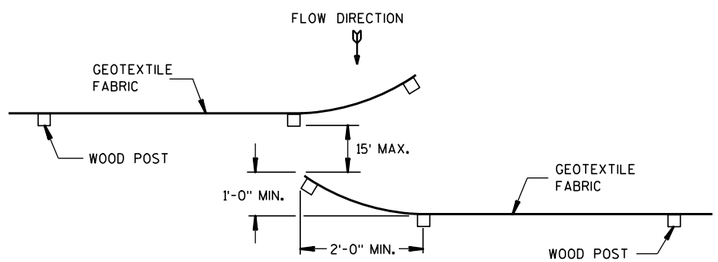
TRENCH DETAIL



SILT FENCE

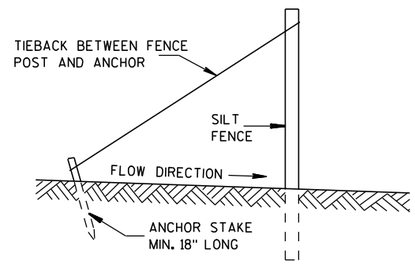


TWIST METHOD



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

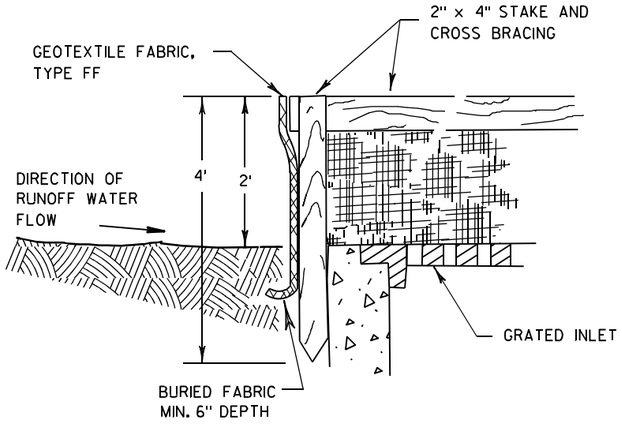
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

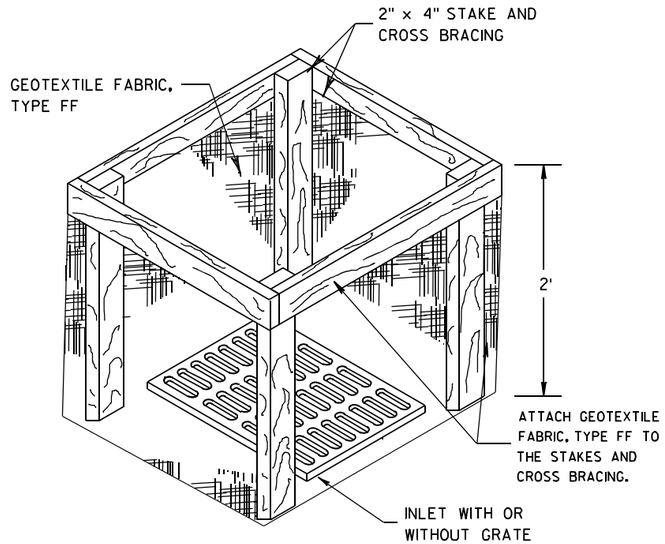
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S.D.D. 8 E 9-6

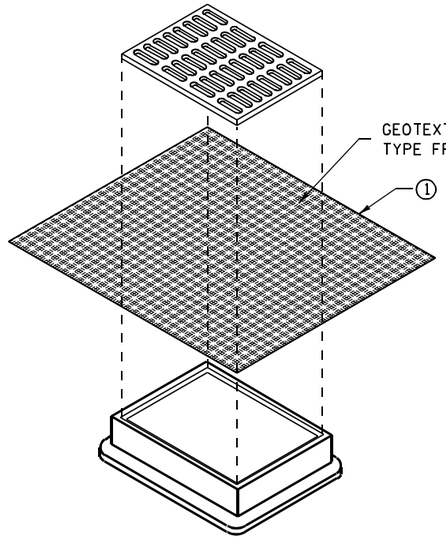
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S.D.D. 8 E 9-6



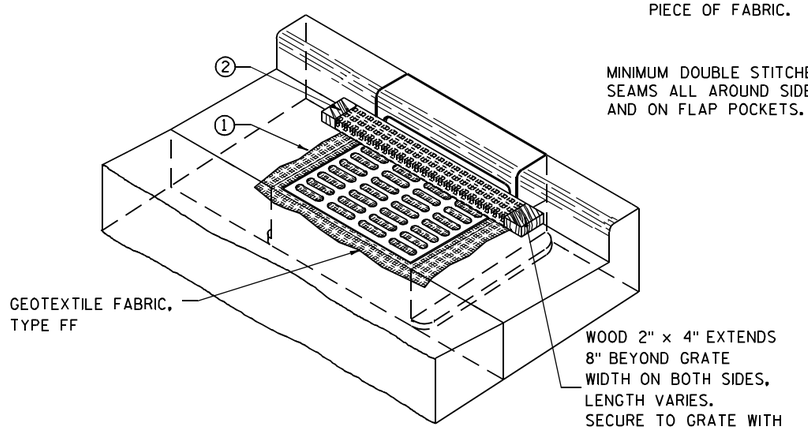


INLET PROTECTION, TYPE A

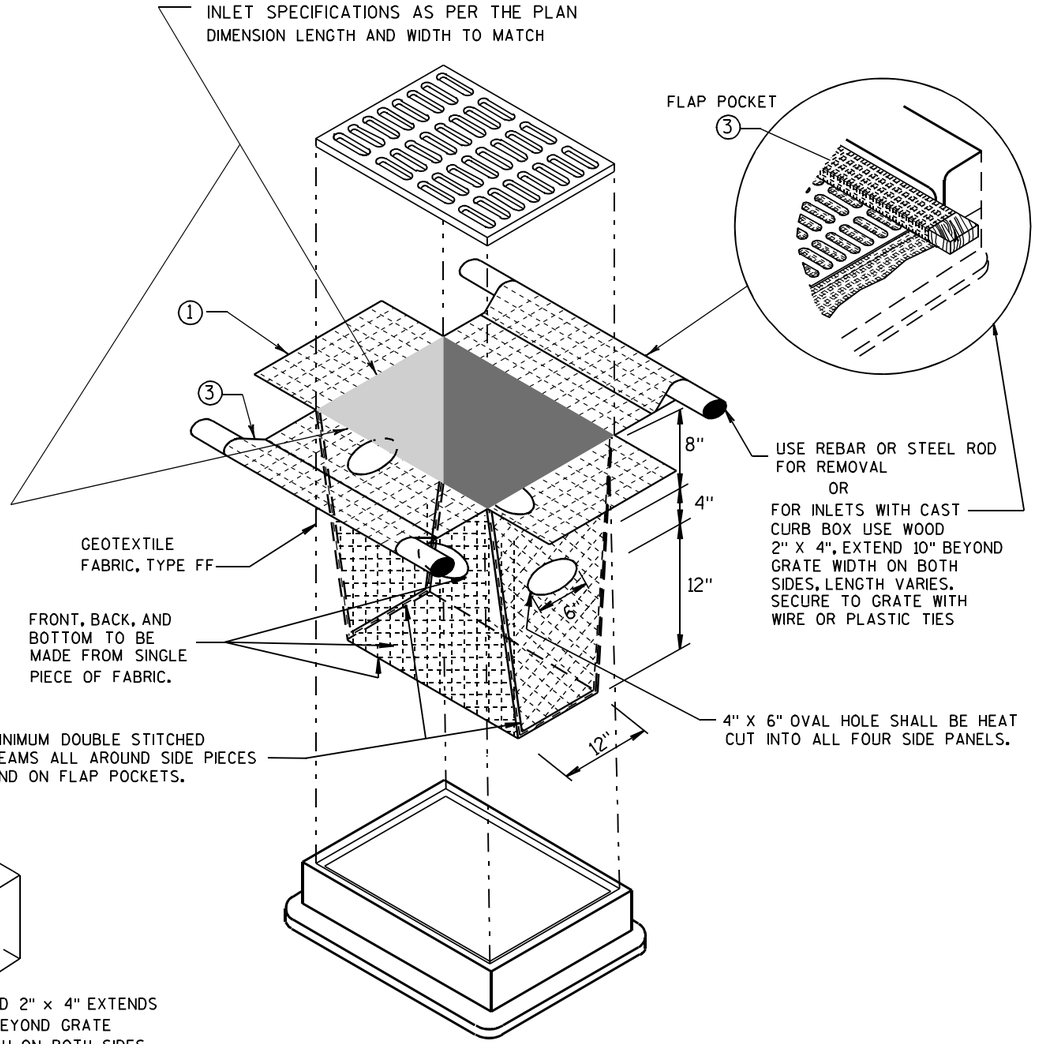


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

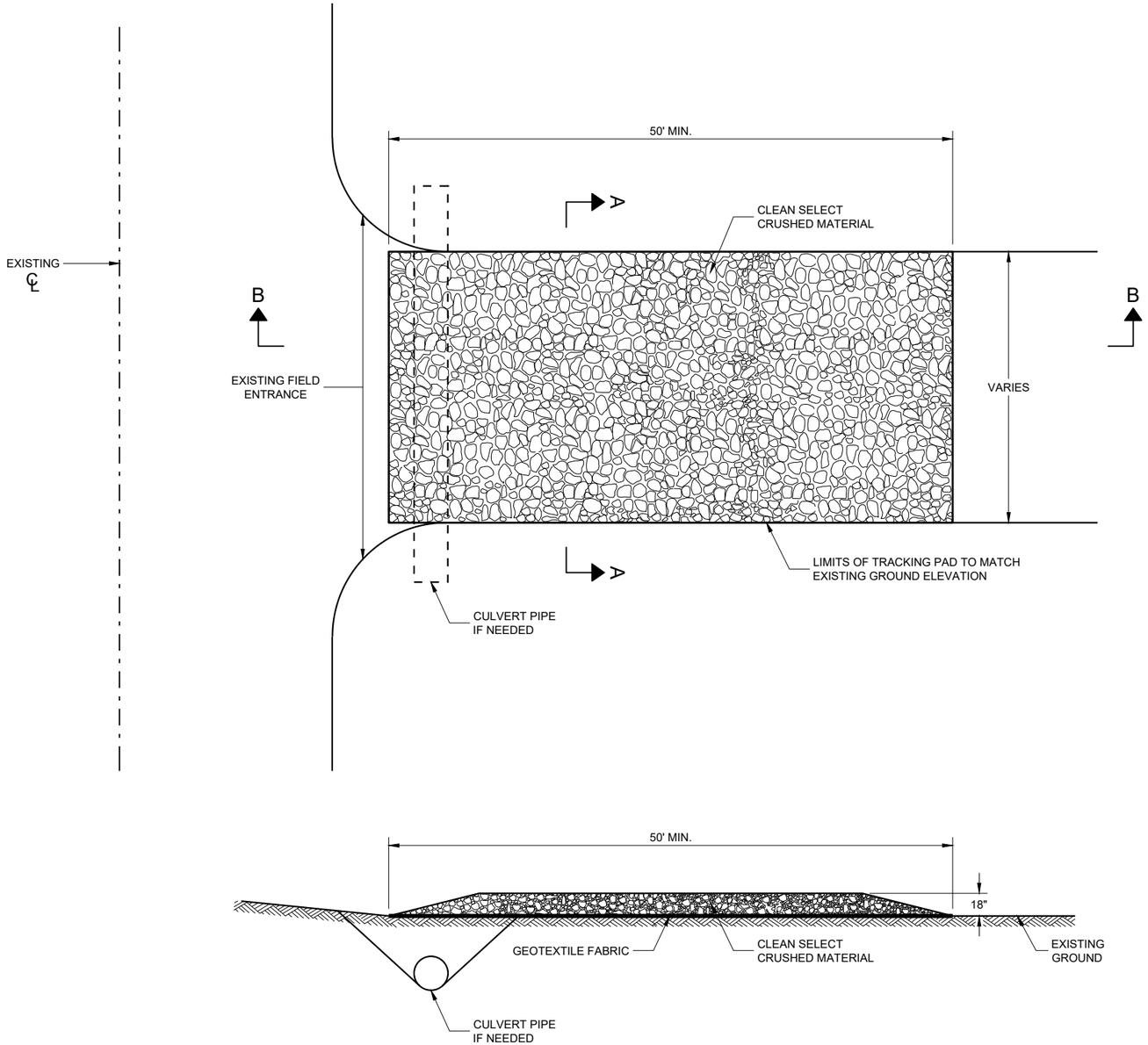
FHWA

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S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



SECTION B - B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

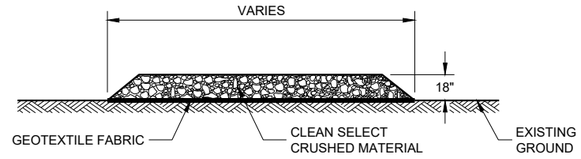
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

6

SDD 08E14 - 01

TRACKING PAD

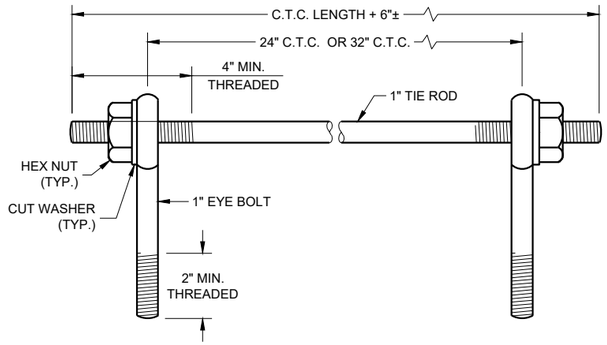
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

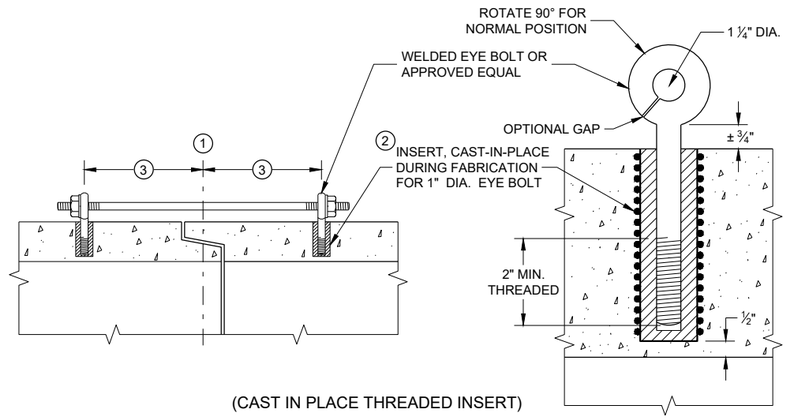
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SDD 08E14 - 01



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.

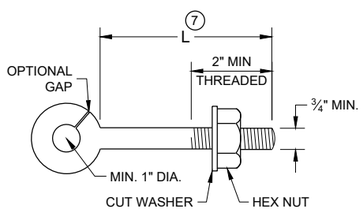
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

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

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

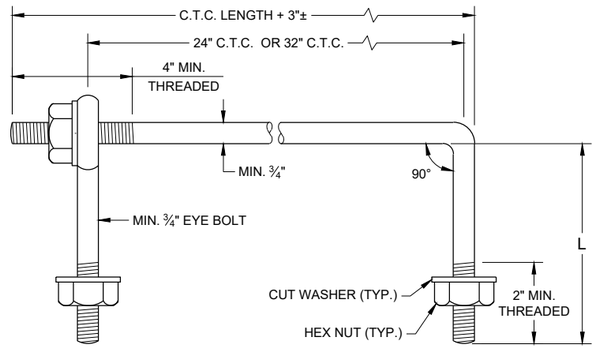
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

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

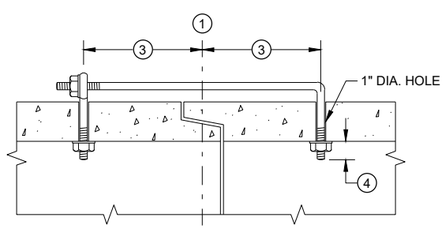


EYE BOLT (7)

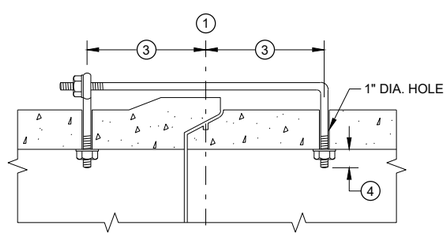
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

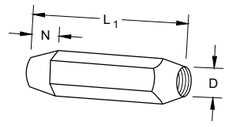
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

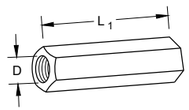
ADJUSTABLE TIE ROD TABLE

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



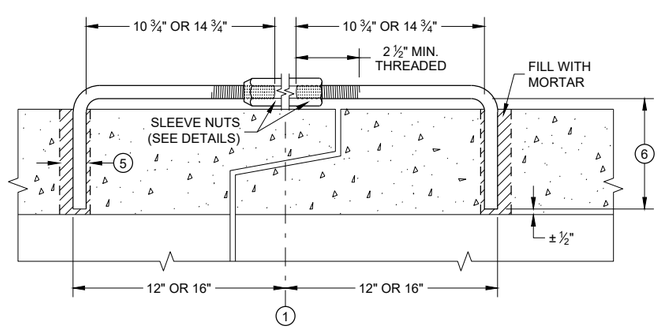
TAPERED



PLAIN

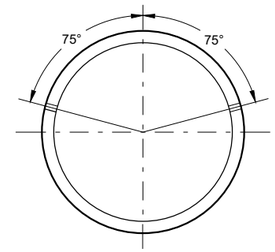
RIGHT AND LEFT THREADS

SLEEVE NUTS



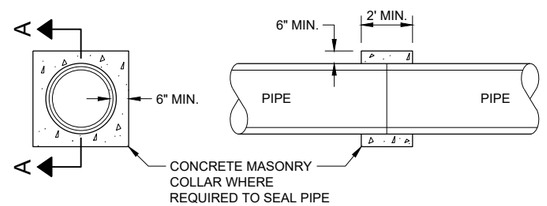
LONGITUDINAL SECTION

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

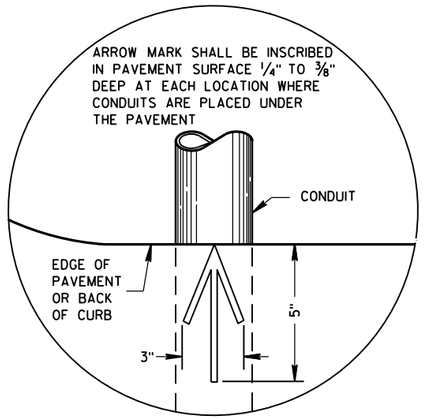
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

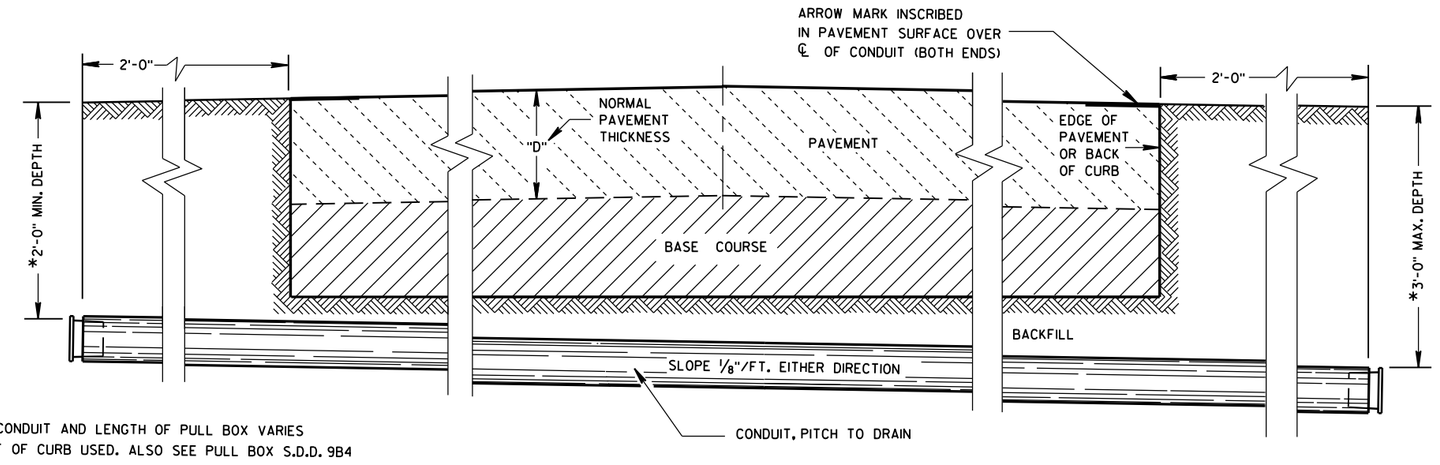
SDD 08F04 - 08

SDD 08F04 - 08



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

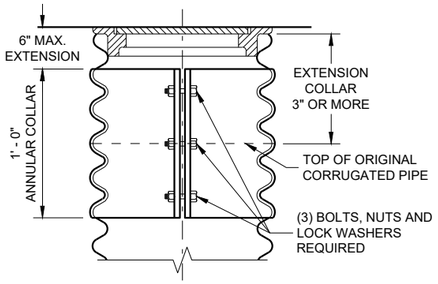
CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

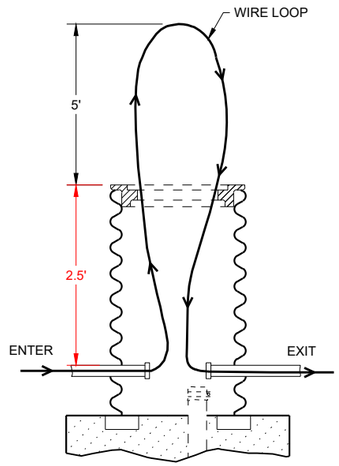
APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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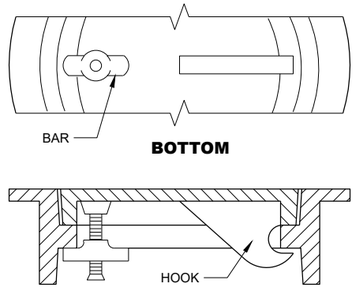
S.D.D. 9 B 2-10



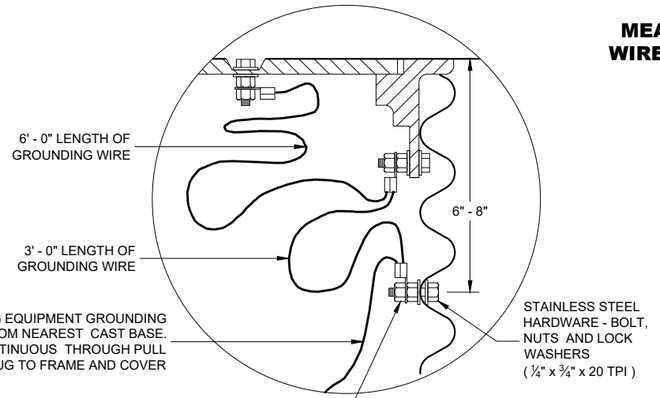
CORRUGATED PIPE EXTENDER



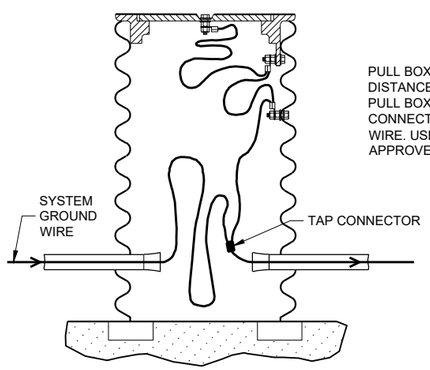
MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



ALTERNATE COVER (LOCKING)
TIGHTENING BAR TYPE

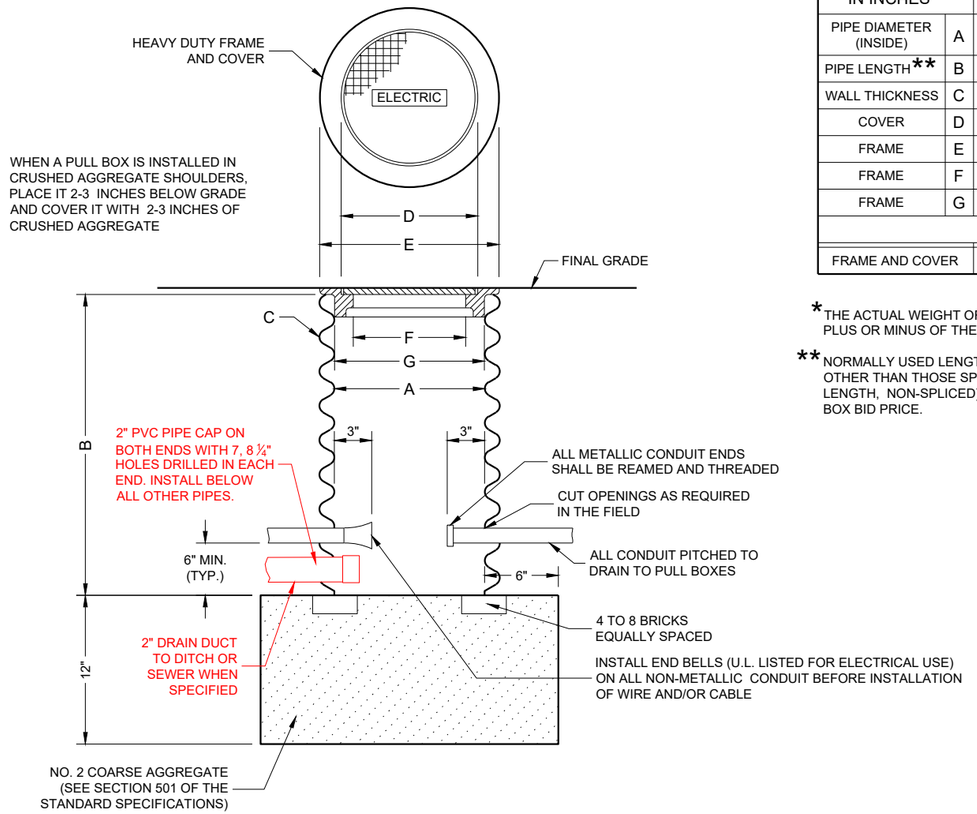


EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH**	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 ¼	10 ¼	10 ¼	16 ¼	16 ¼	16 ¼	22 ¼	22 ¼	22 ¼
FRAME	E	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½	26 ½	26 ½	26 ½
FRAME	F	8 ½	8 ½	8 ½	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½
FRAME	G	11 ½	11 ½	11 ½	17 ½	17 ½	17 ½	23 ½	23 ½	23 ½
WEIGHT IN POUNDS*										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

*THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

**NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

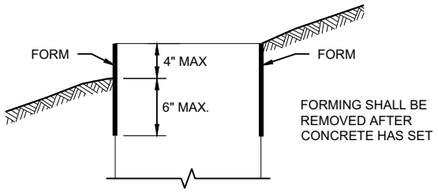
APPROVED
May 2022
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

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SDD 09B04-12

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

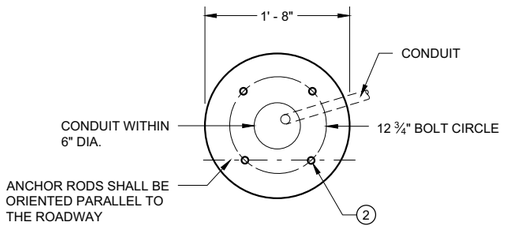
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

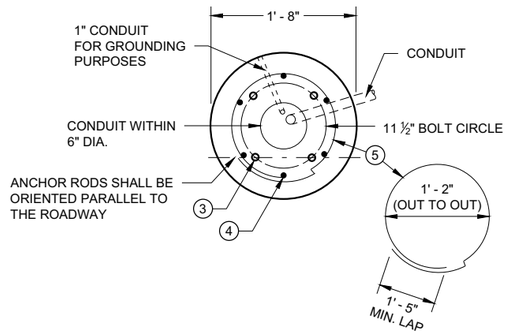
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

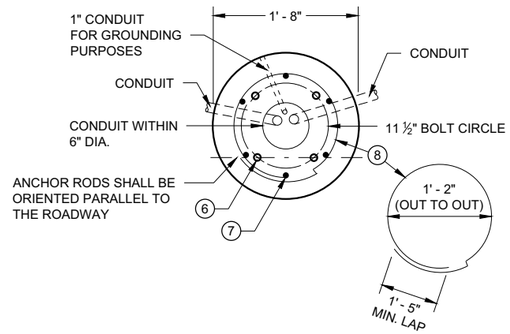
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

(2) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(3) (4) 1" DIA. X 5' - 0" ANCHOR RODS.

(4) (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

(5) (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

(6) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(7) (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

(9) EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

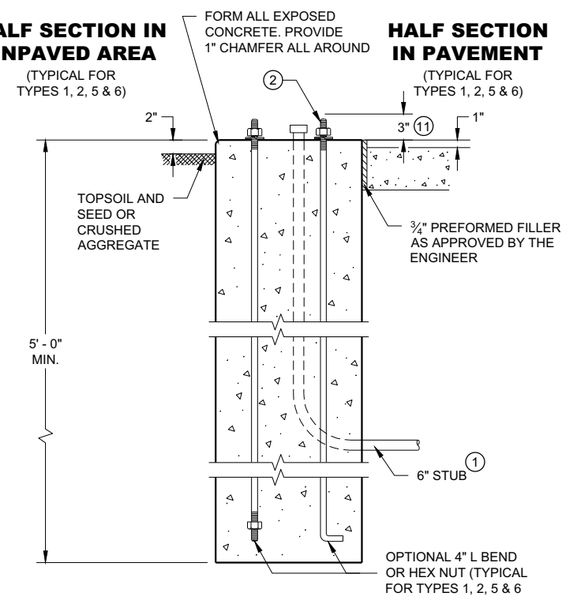
(10) ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

(11) ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

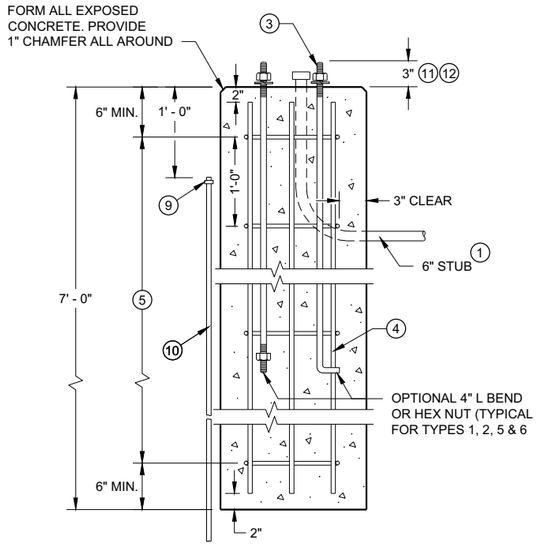
(12) FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

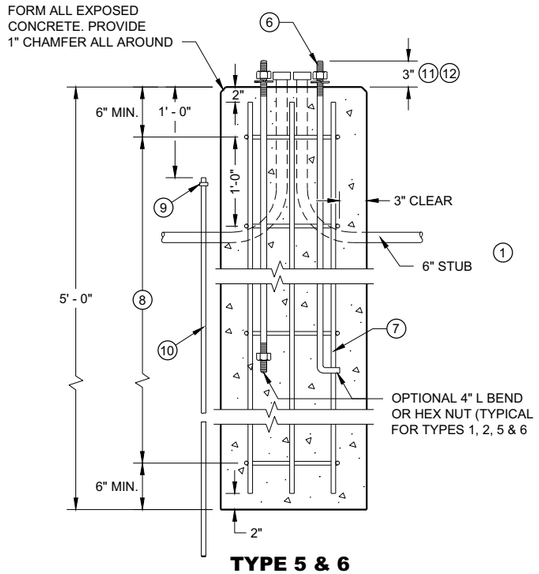
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 213

FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

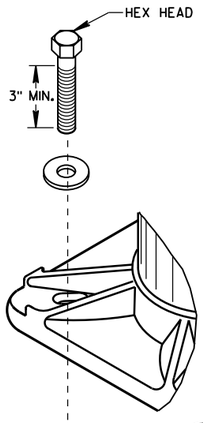
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

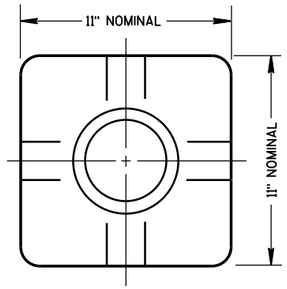
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

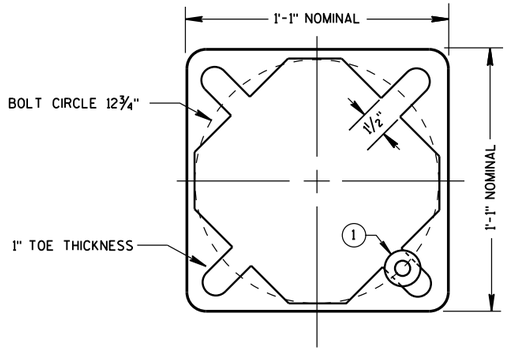
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

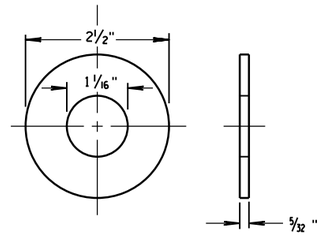




TOP VIEW
(PEDESTAL BASE)

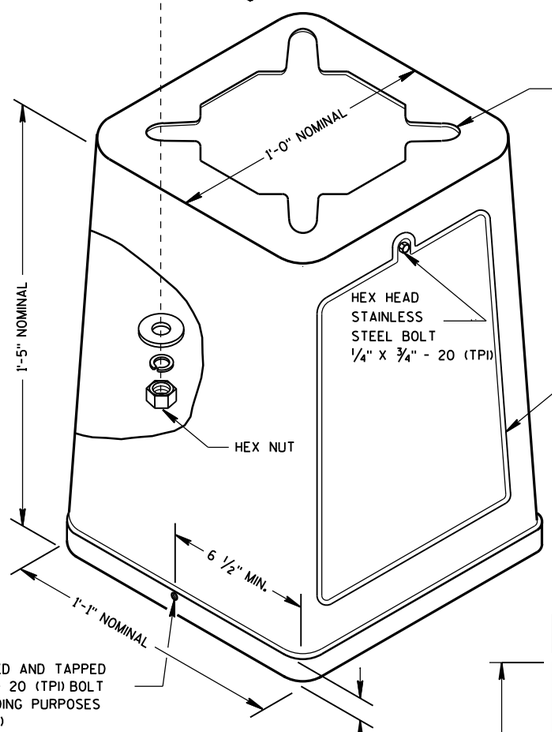


BOTTOM VIEW
(PEDESTAL BASE)

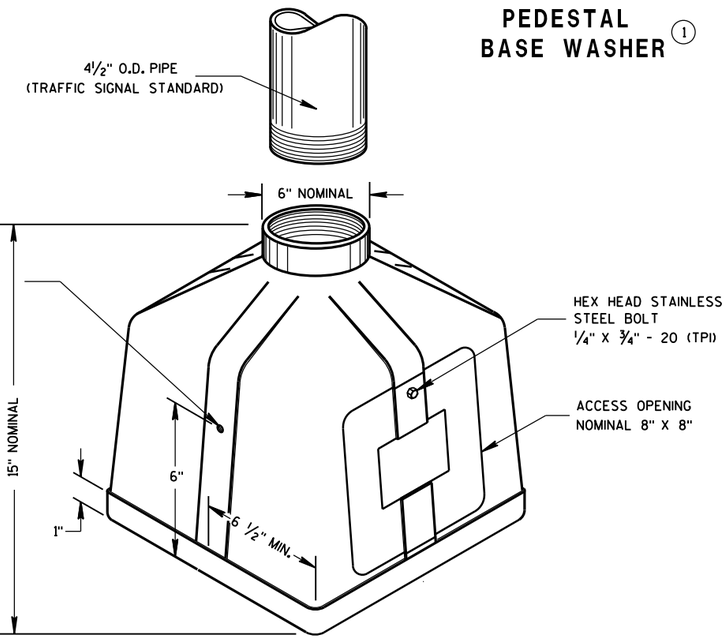


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

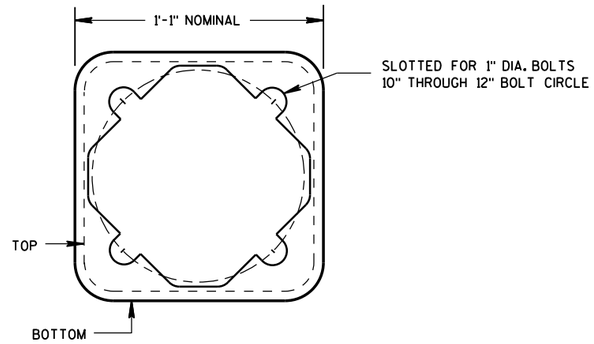
PEDESTAL BASE WASHER (1)



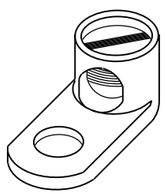
ISOMETRIC VIEW



ISOMETRIC VIEW
PEDESTAL BASE

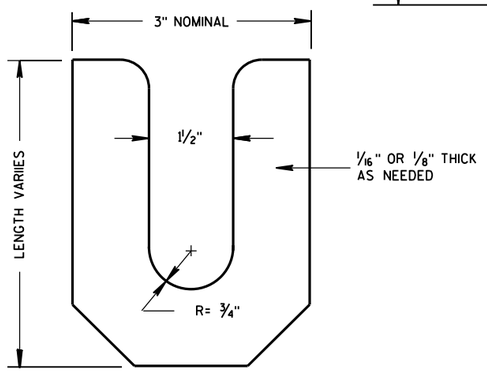


BOTTOM VIEW
(TRANSFORMER BASE)



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 C 3-4

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

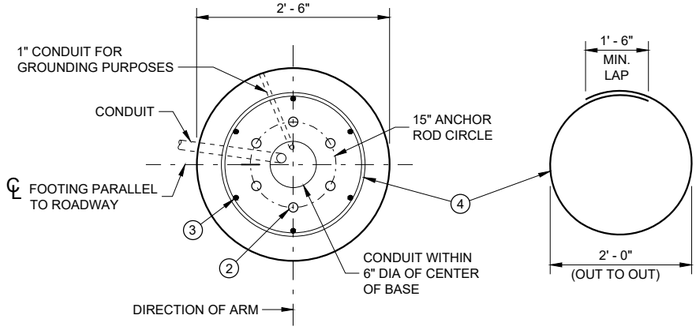
(2) (6) 1 ½ DIA. X 4' - 4" ANCHOR RODS

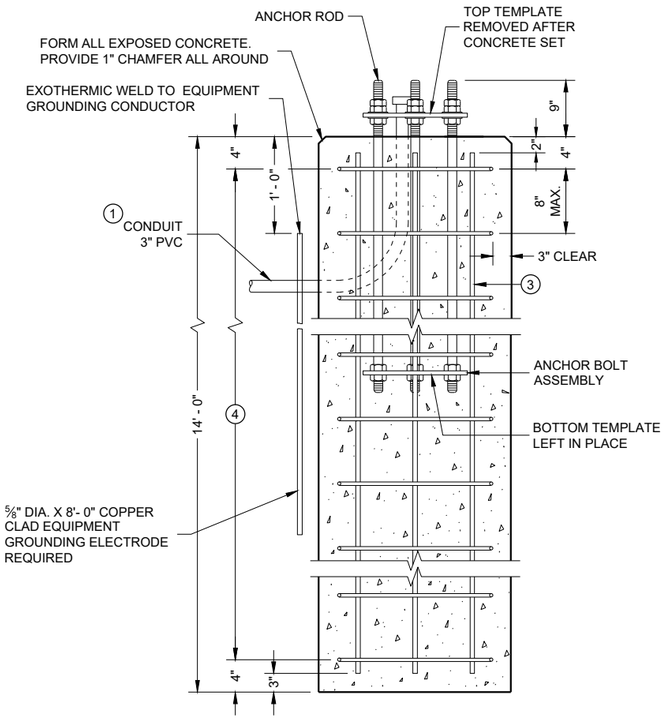
(3) (6) NO. 6 X 13' - 7" BAR STEEL REINFORCEMENT.

(4) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE .....fy = 55,000 p.s.i.
WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.

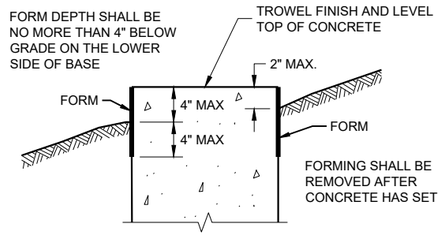
QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122



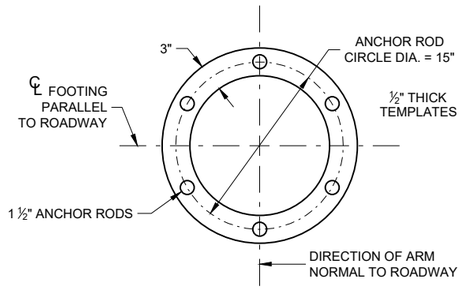


CONCRETE BASE, TYPE 10
(FOR TYPE 9, TYPE 10 AND OVER HEIGHT (OH) POLES)

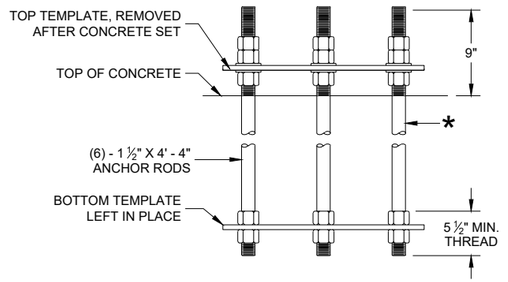
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE SDD 9C13 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

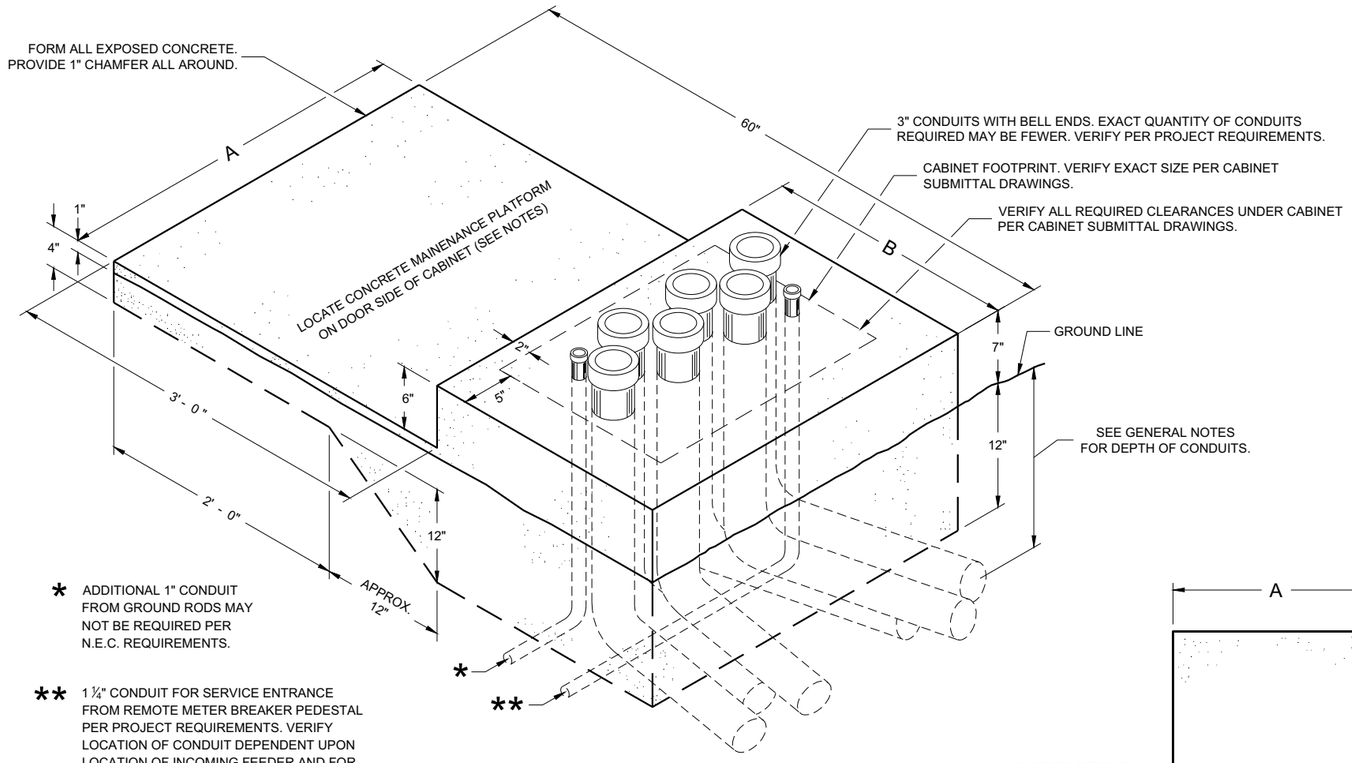
CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demerbilek — WIND LOADED STRUCTU PROGRAM LEADER
FHWA

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SDD 09C11 - 10



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

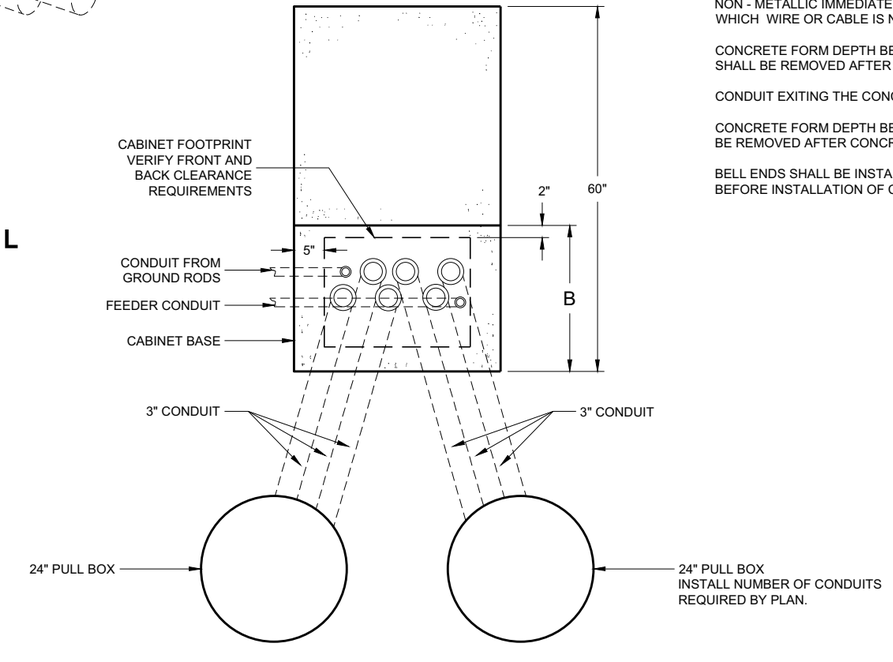
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

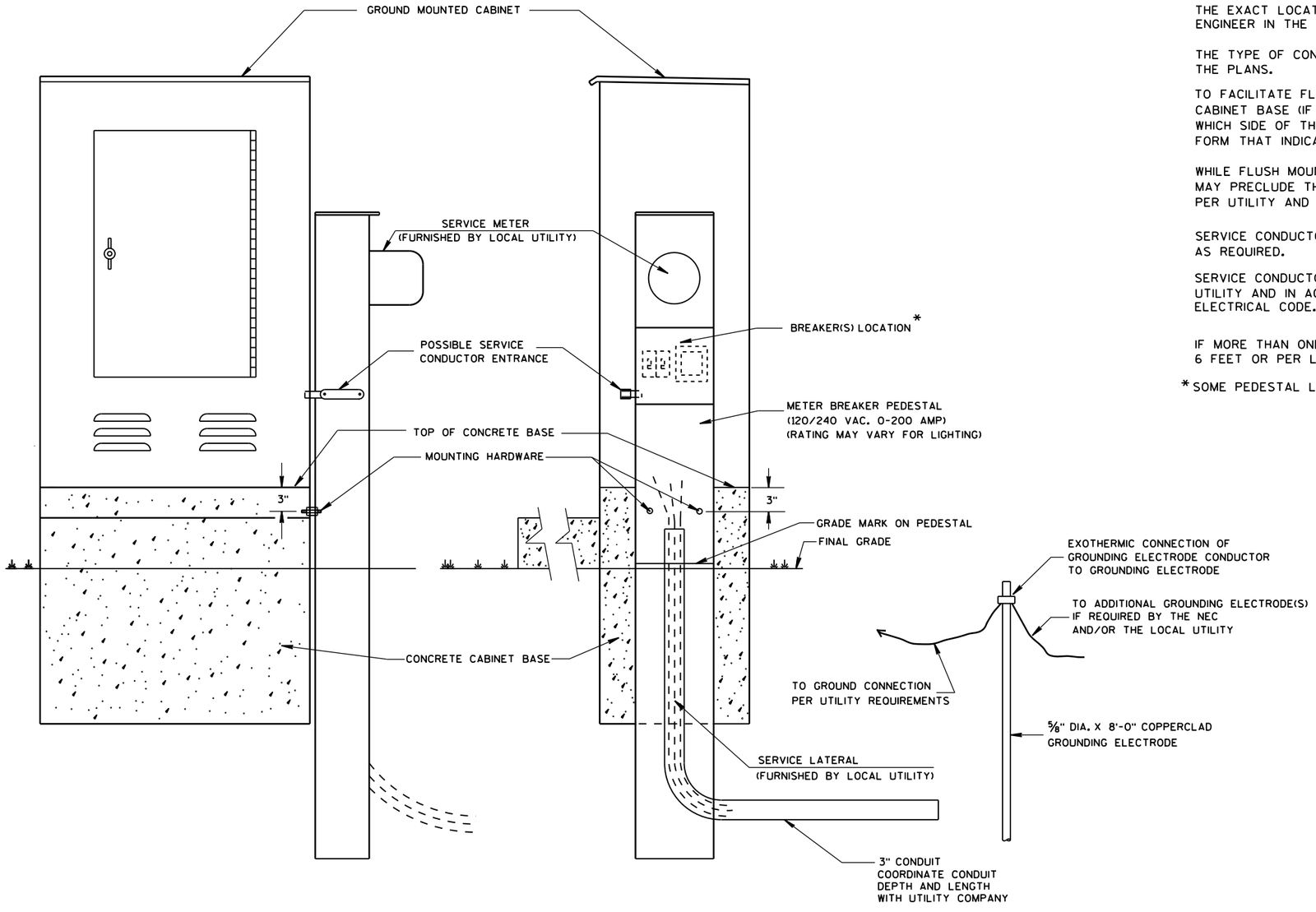
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 216

FHWA

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SDD 09C14 - 03



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

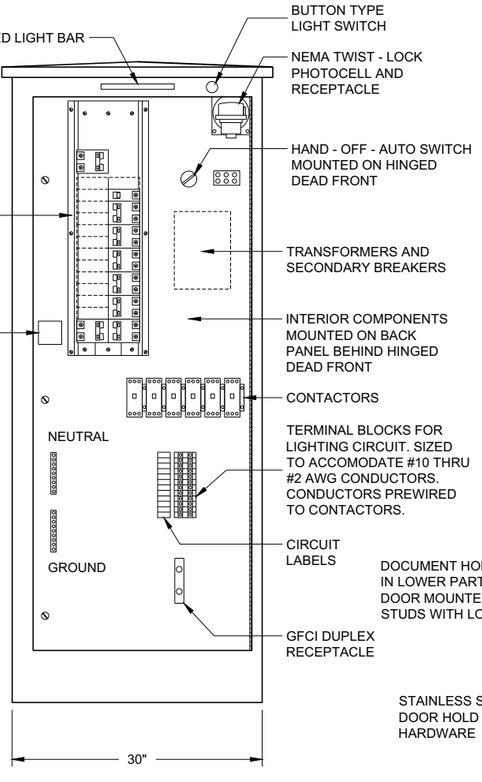
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

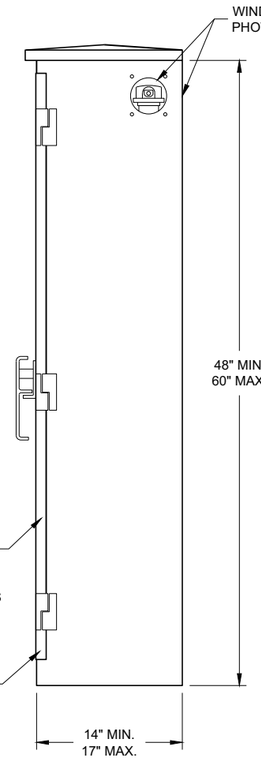
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

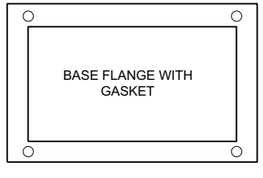
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S.D.D. 9 D 1-5

FRONT INTERIOR ELEVATION

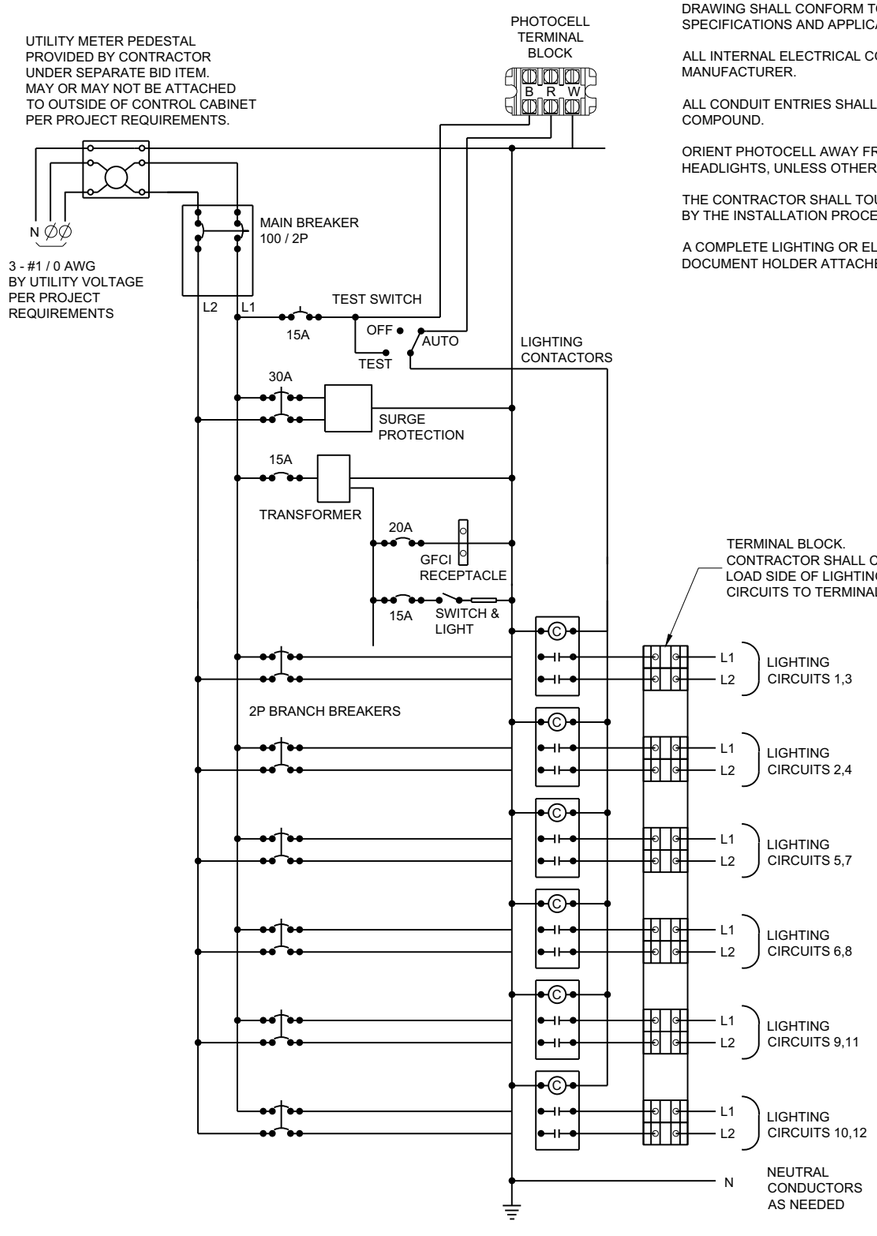


SIDE VIEW





LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

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.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

L30
LIGHTING CONTROL CABINET 240 / 480 VOLT

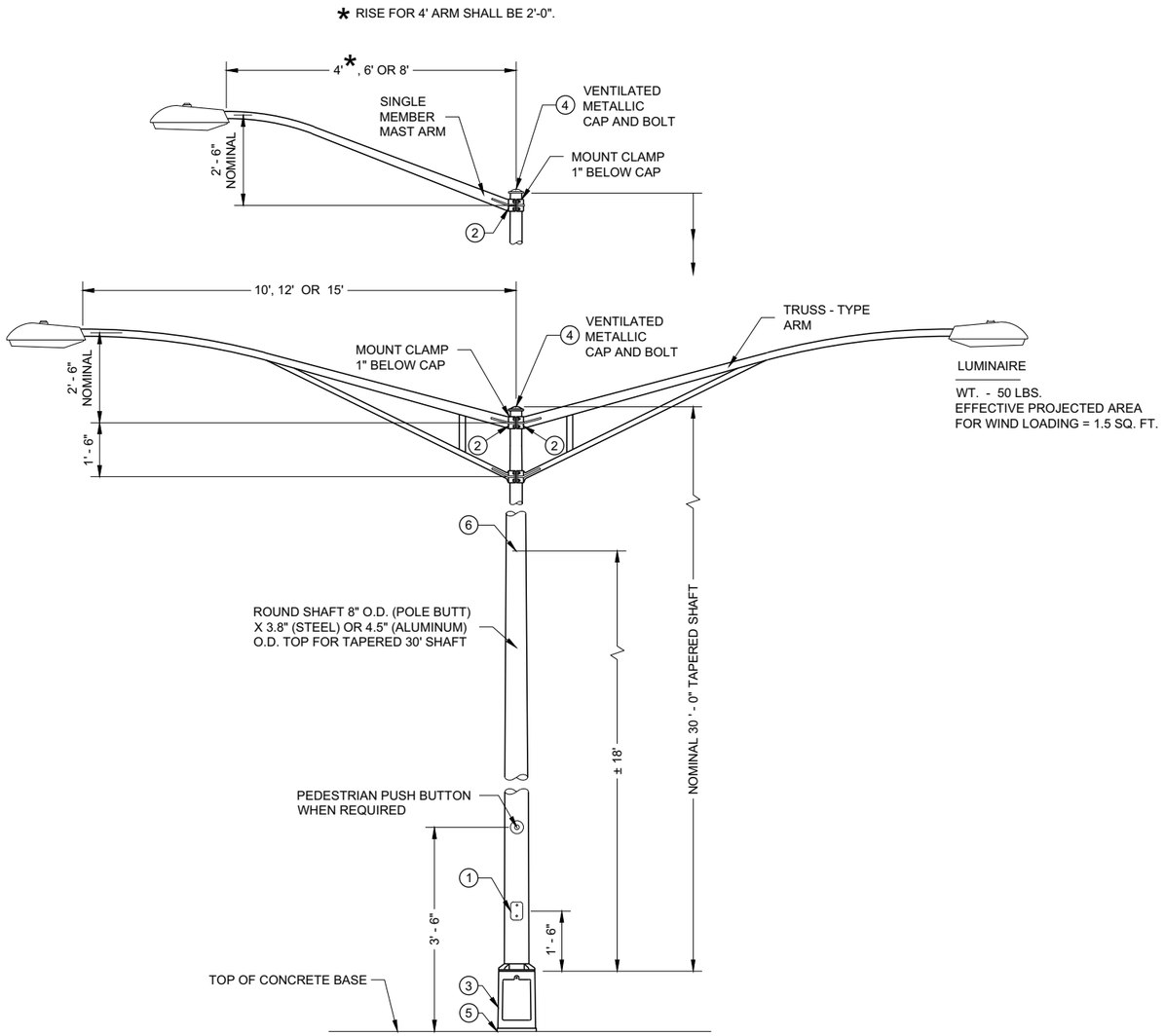
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 218

FHWA

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SDD 09D05 - 02



TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

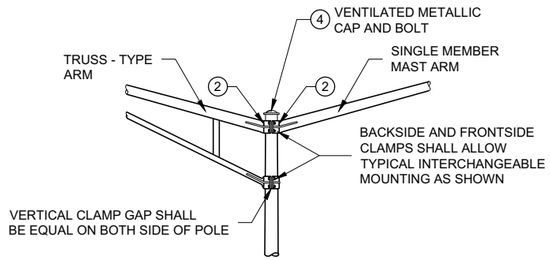
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

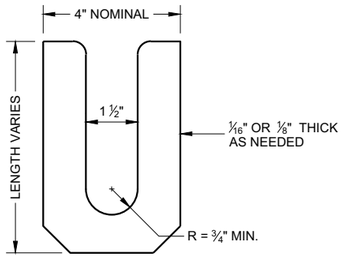
(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.

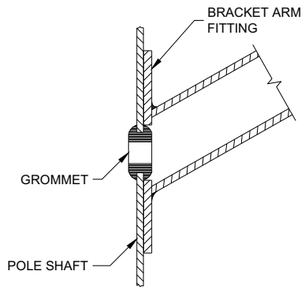


INTERCHANGEABLE MOUNTING DETAIL

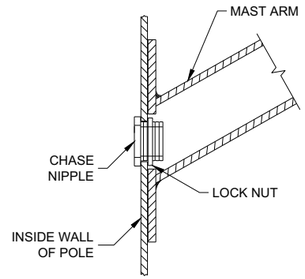
POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

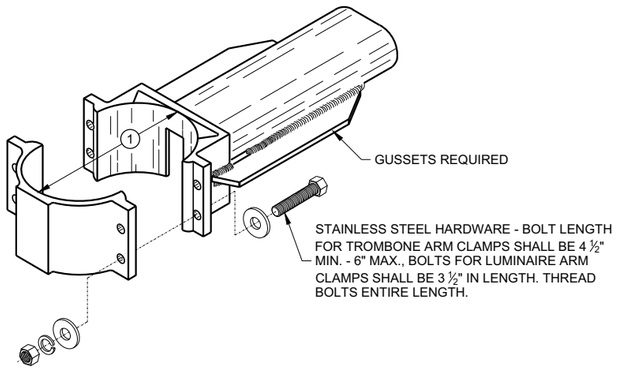
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

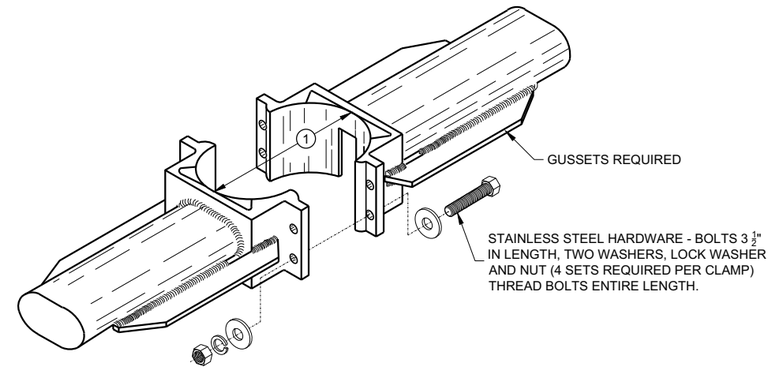
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

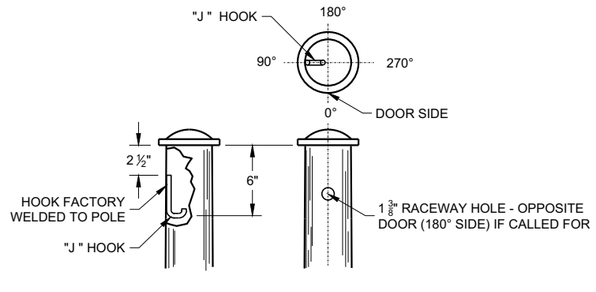
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



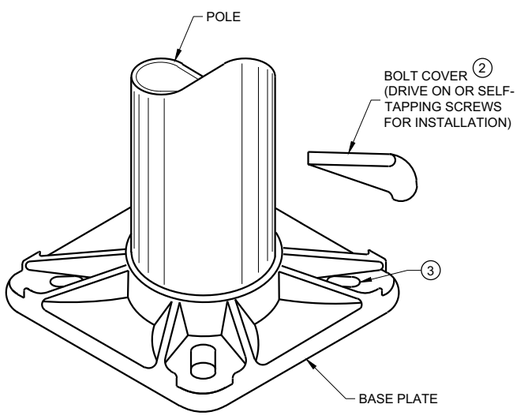
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



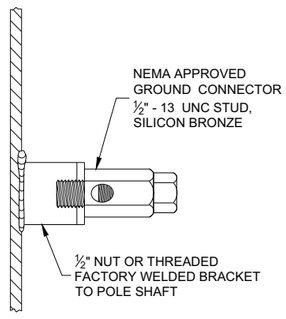
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

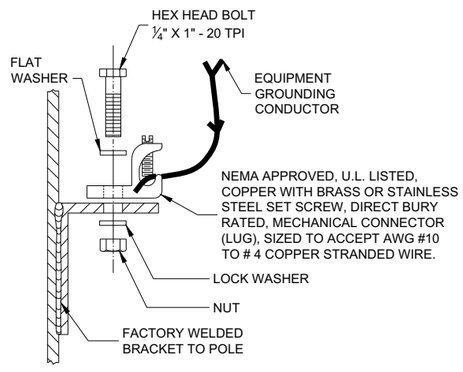


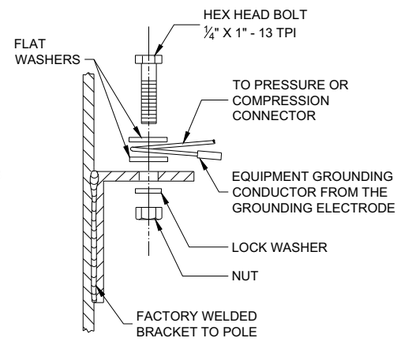
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 220

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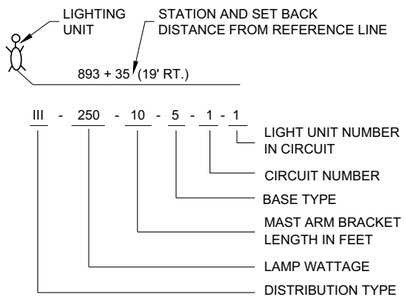
6
SDD 09E01 - 15g

GENERAL NOTES

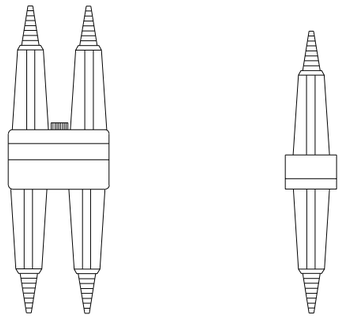
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

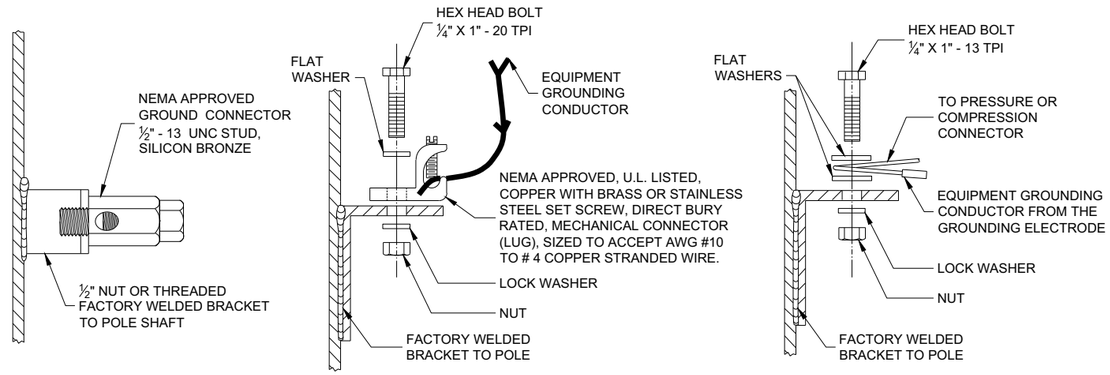


LIGHTING UNIT CODE
(TYPICAL)

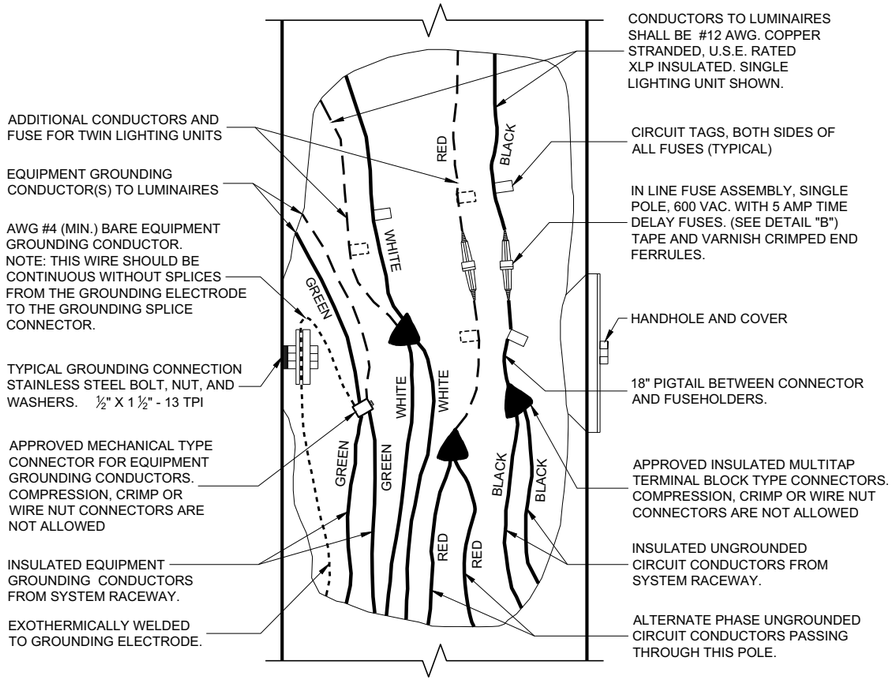


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

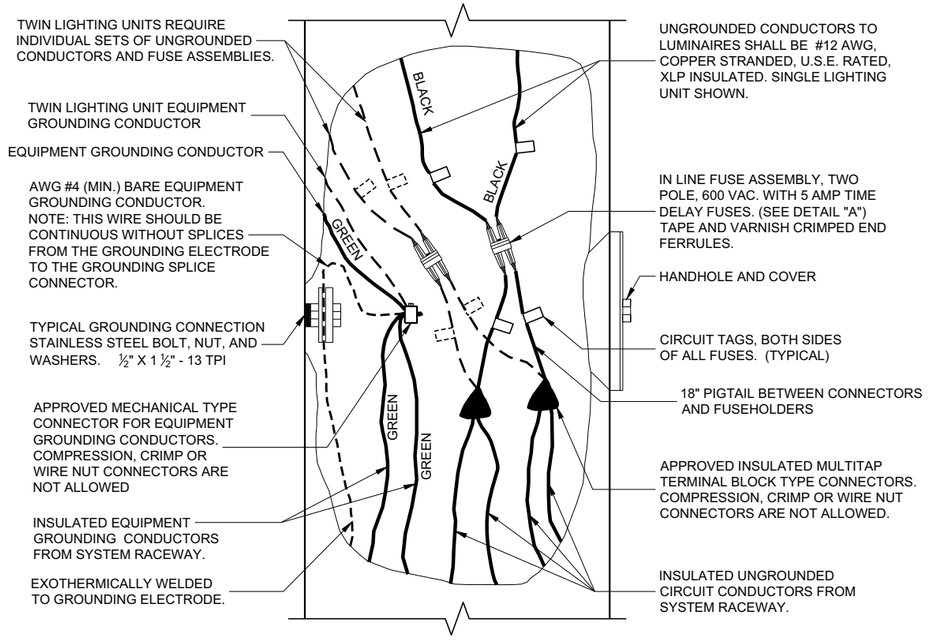
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

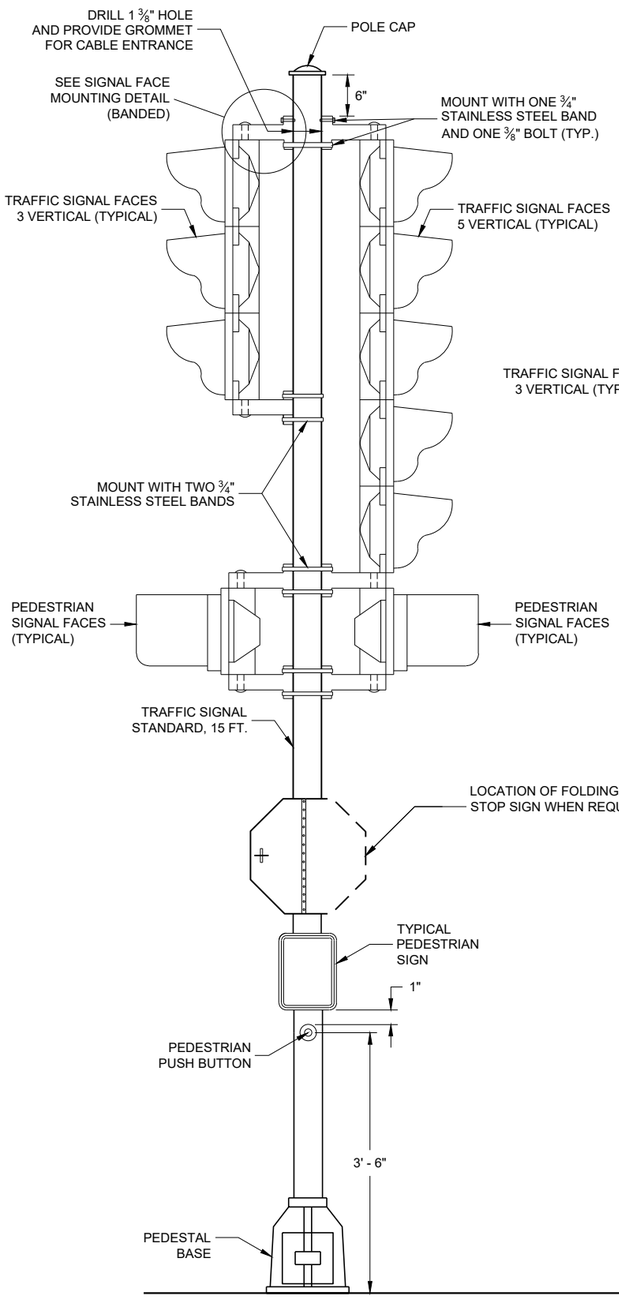
NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

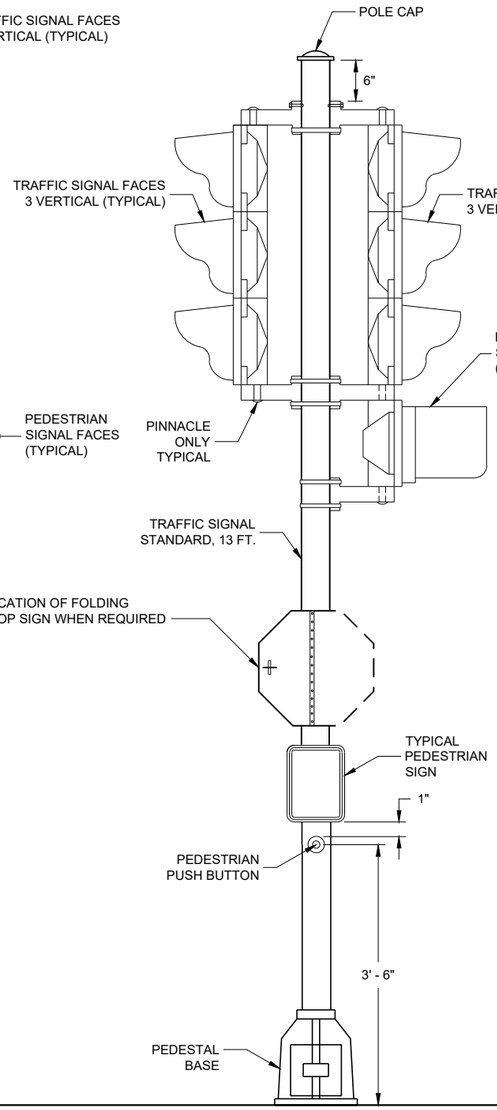
APPROVED
November 2018
DATE
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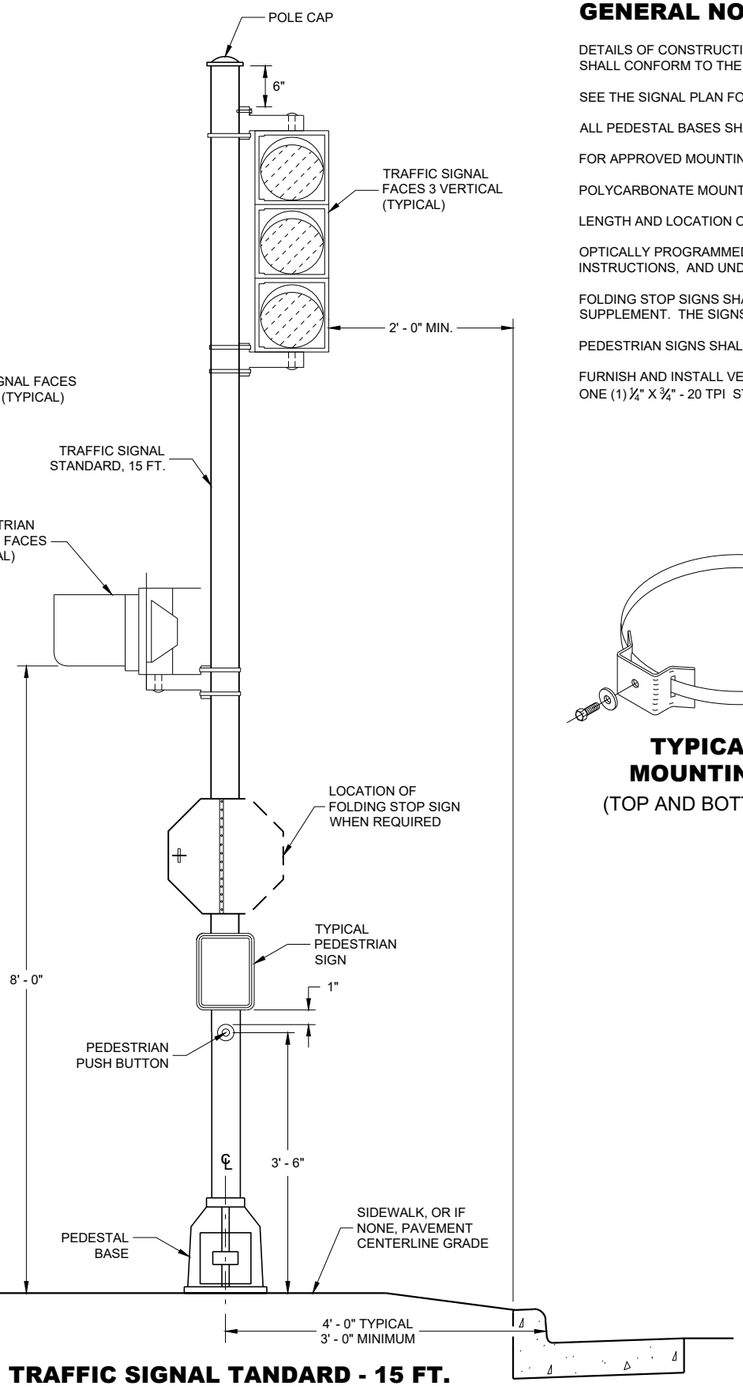
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SDD 09E03 - 06



TRAFFIC SIGNAL STANDARD - 15 FT.



TRAFFIC SIGNAL STANDARD - 13 FT.



TRAFFIC SIGNAL TANDARD - 15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

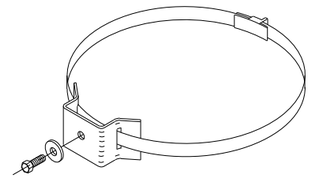
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

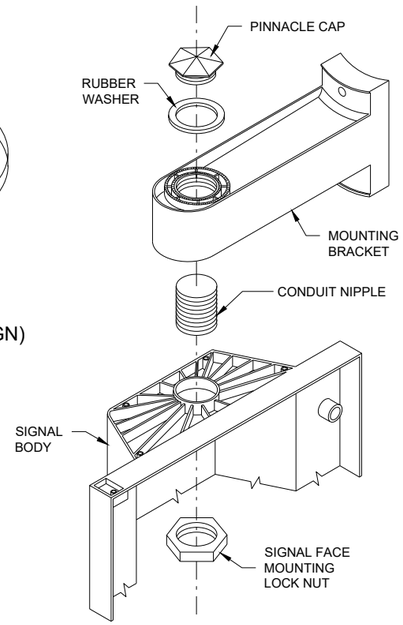
FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



SIGNAL FACE MOUNTING DETAIL (BANDED)

TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

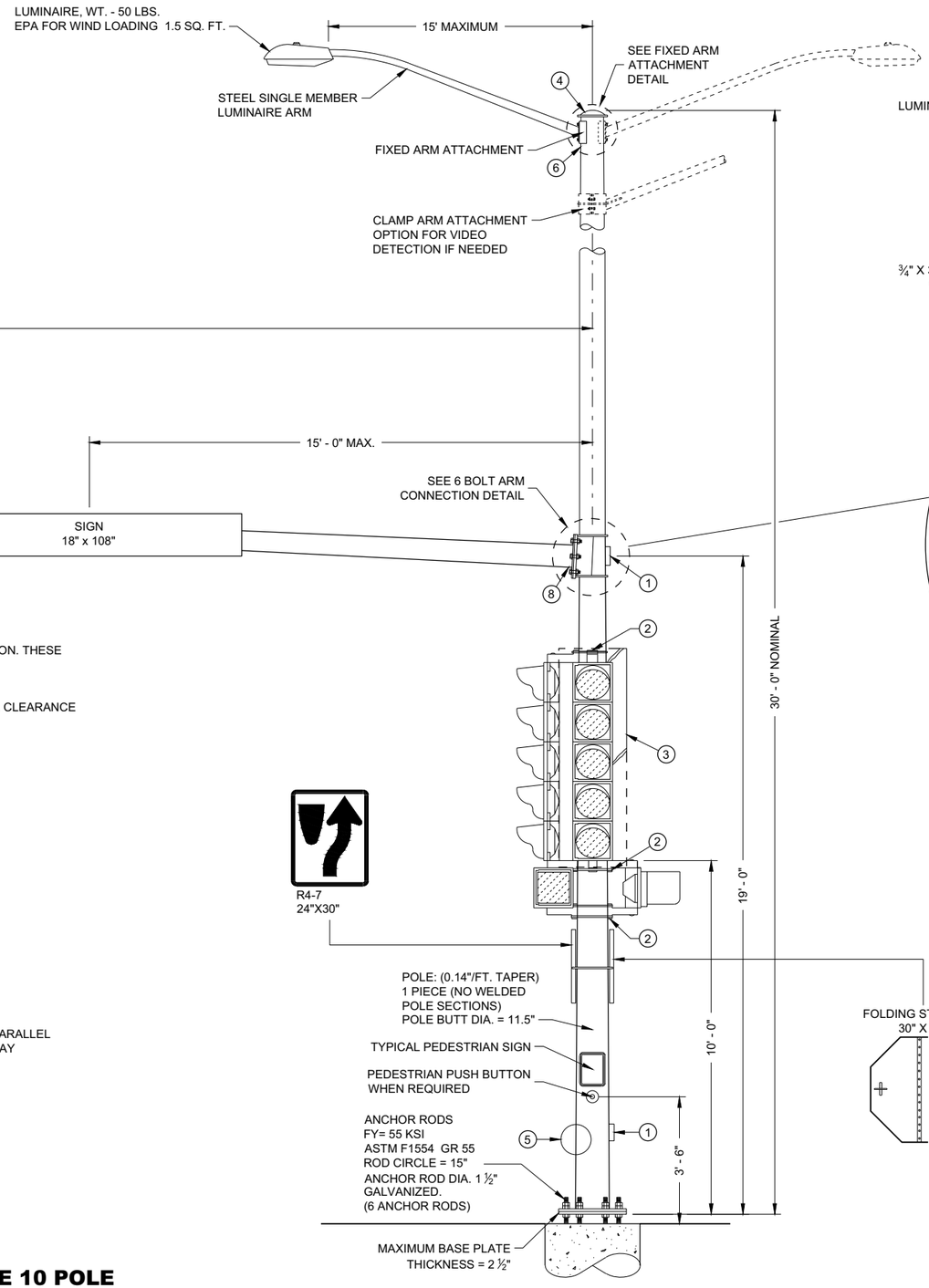
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APPROVED
2/28/2013
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 222

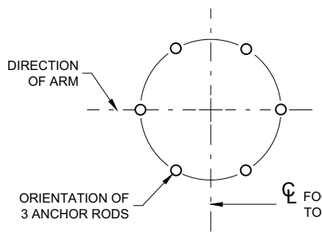
FHWA

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SDD 09E06 - 05

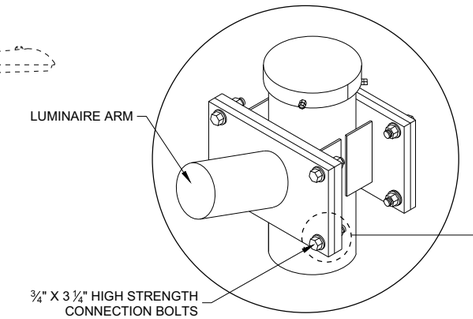


* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

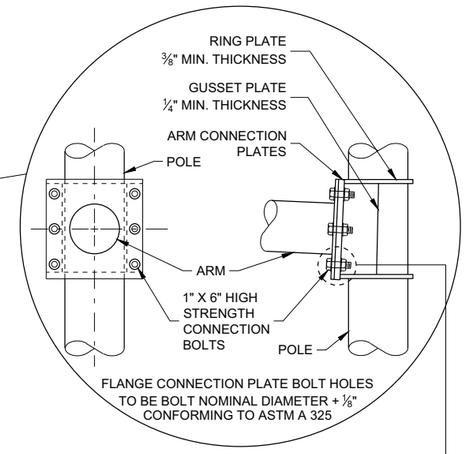
** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE



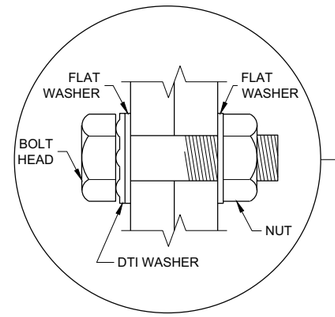
ANCHOR ROD LOCATION



FIXED ARM ATTACHMENT DETAIL



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 POLE
15' - 30' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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SDD 09E08 - 09e

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL.

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES AS FOLLOWS:

CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.

CATEGORY II FATIGUE LOADS OF TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM.

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEAD AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION SECTION 658).

(3) SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

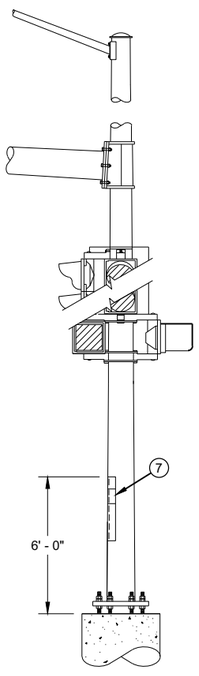
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

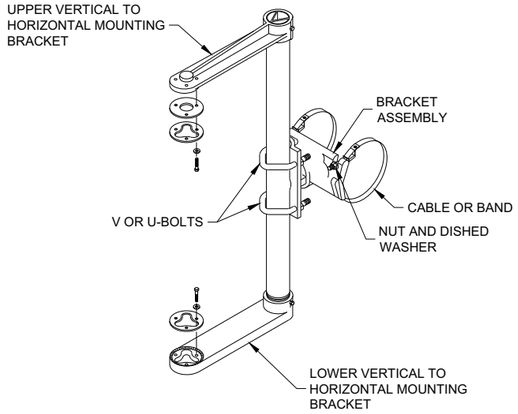
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

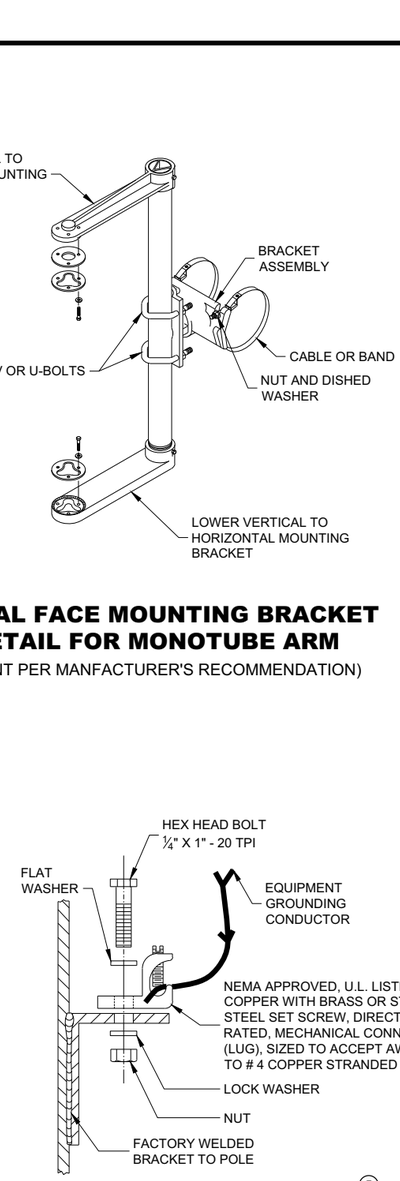


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



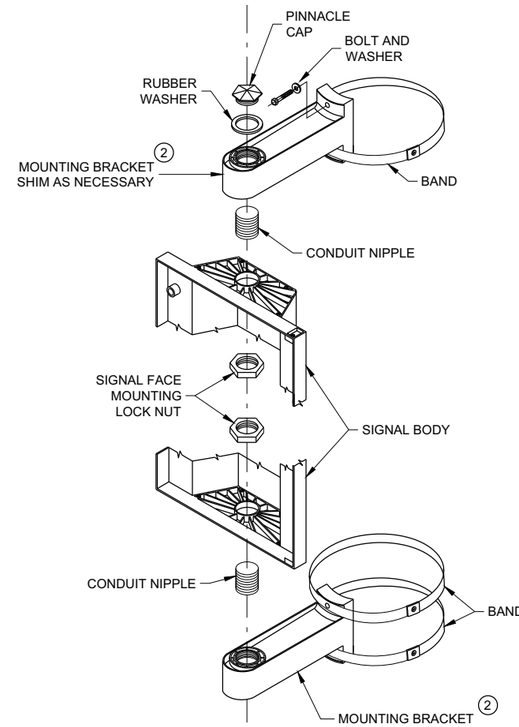
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

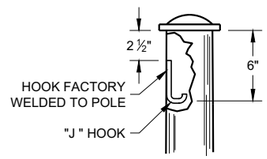


TYPICAL GROUNDING (5) CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK (6) WIRE SUPPORT

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
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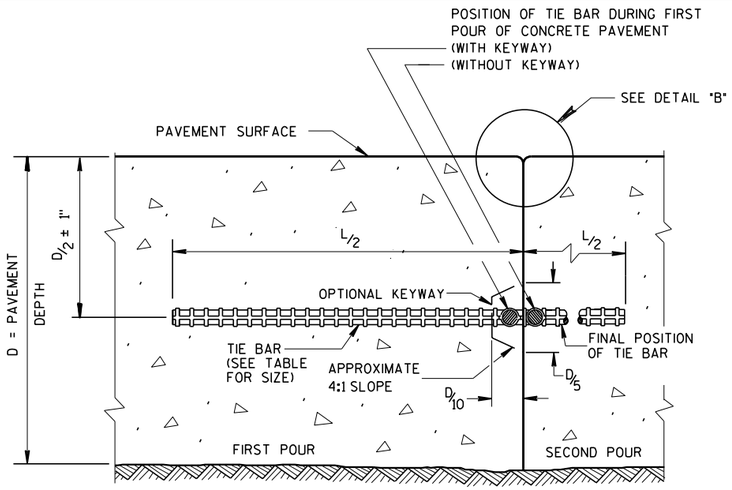
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

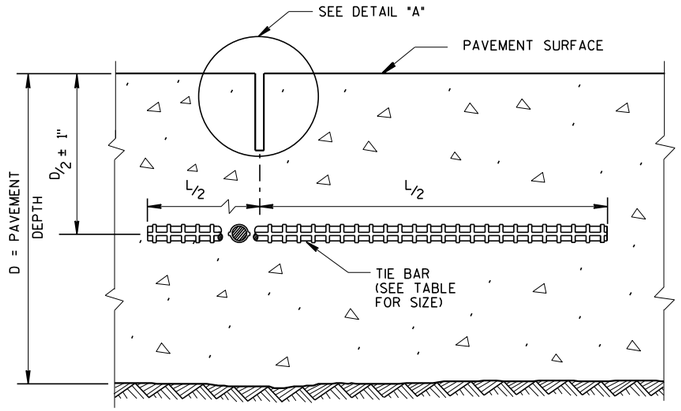
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CONSTRUCTION JOINT



SAWED JOINT

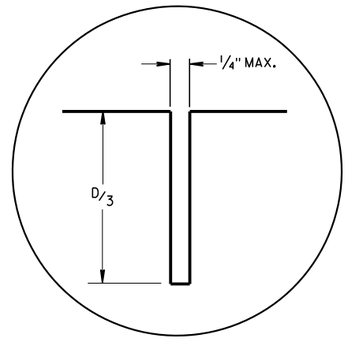
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

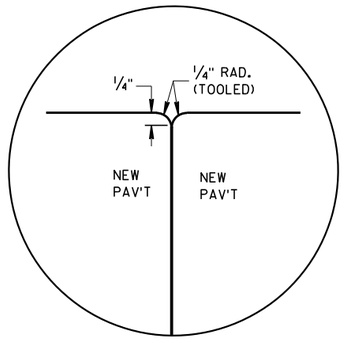
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

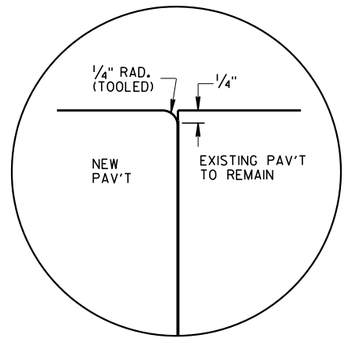
(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



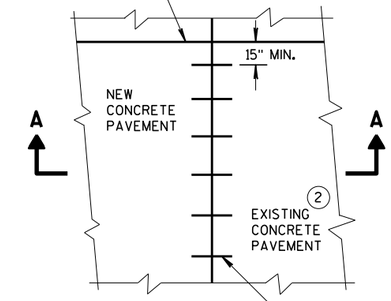
DETAIL "A"



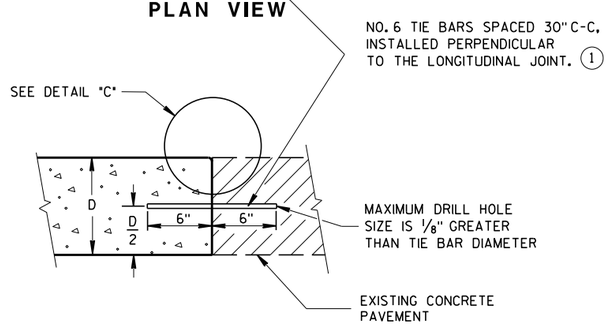
DETAIL "B"



DETAIL "C"



PLAN VIEW



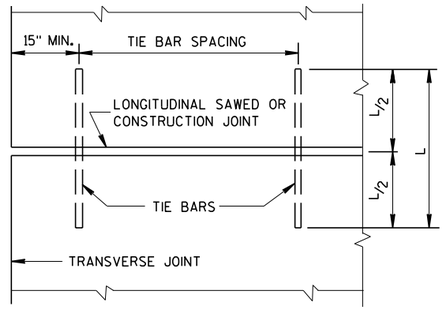
SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

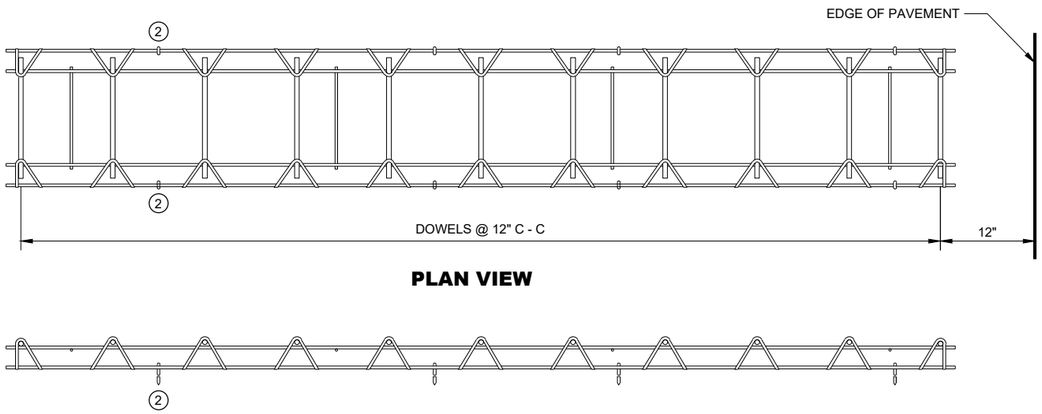
APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

6

S.D.D. 13 C 1-19

6

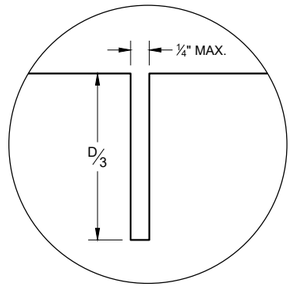
S.D.D. 13 C 1-19



PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY (1)



JOINT DETAIL

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES FROM AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

(1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTION CONTRACTION JOINTS.

(2) SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

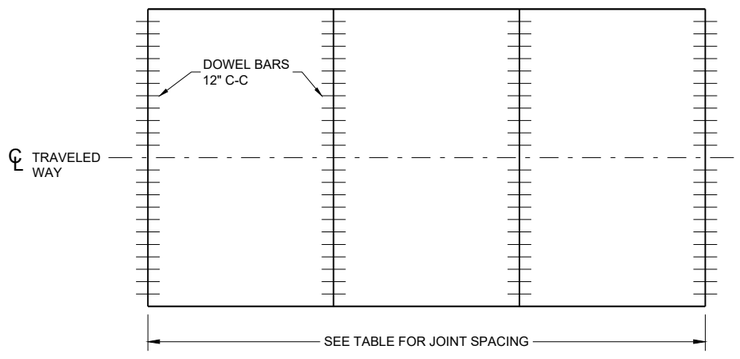
(3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼" RADIUS AT FORMED JOINTS.

(4) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

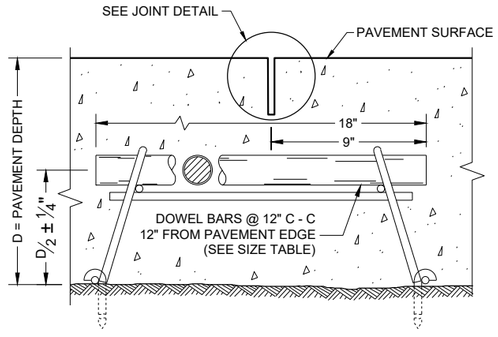
(5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C - C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO THE "DRILLED DOWEL BAR CONSTRUCTION JOINT" DETAIL.

(6) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

(7) ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛" GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



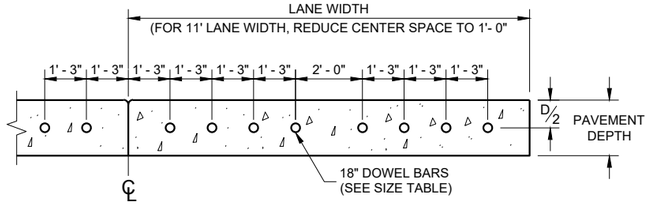
CONTRACTION JOINT LOCATIONS



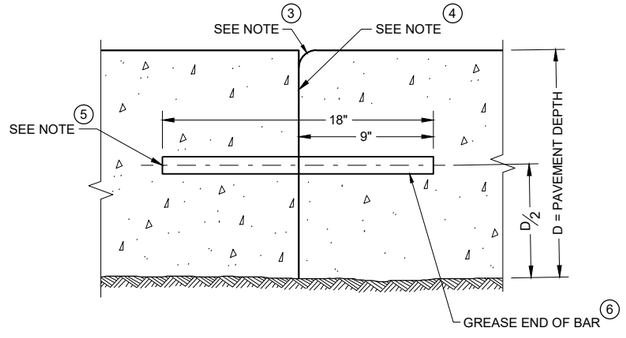
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9" & ABOVE	1 ¼"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT (7)



TRANSVERSE CONSTRUCTION JOINT

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

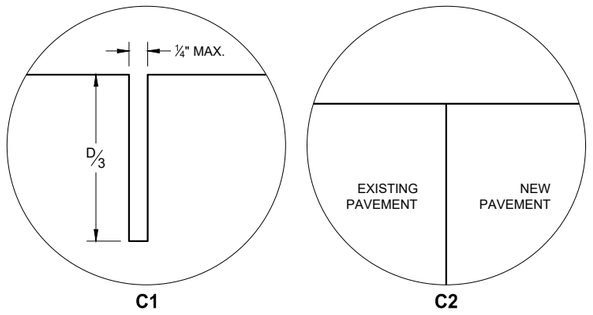
FHWA

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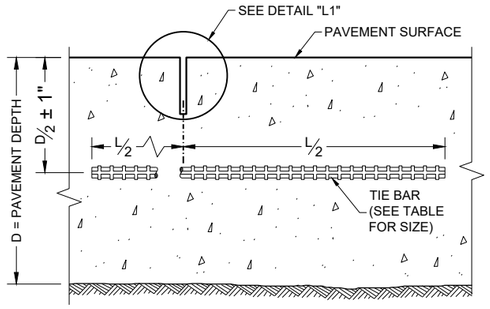
SDD 13C13 - 10

6

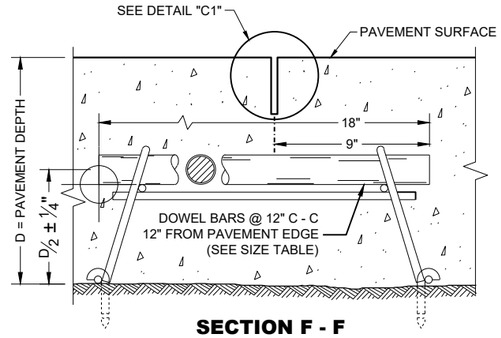
SDD 13C13 - 10



TRANSVERSE JOINTS



SECTION C - C
SAWED JOINT



SECTION F - F
CONTRACTION JOINT

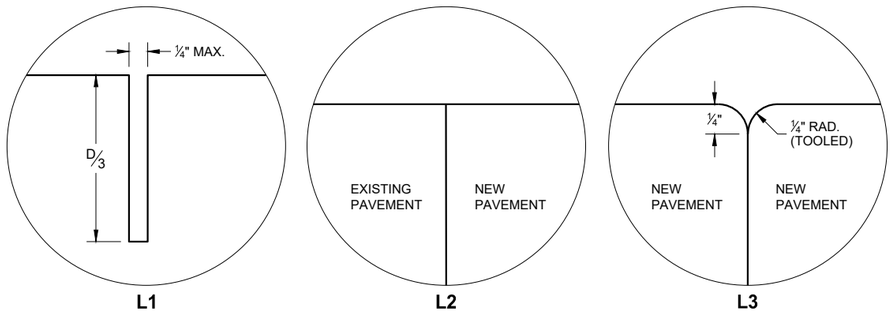
GENERAL NOTES

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

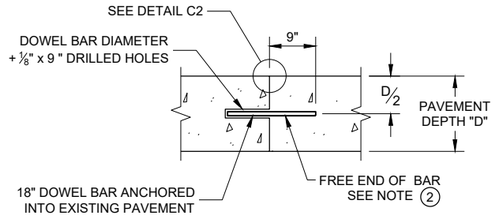
PROVIDE A MIMIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

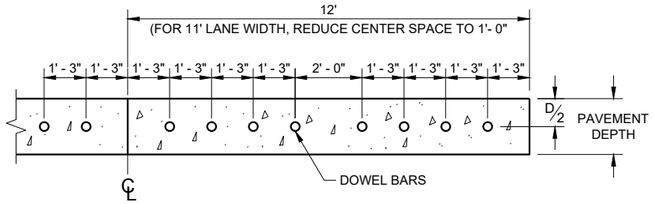
(2) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



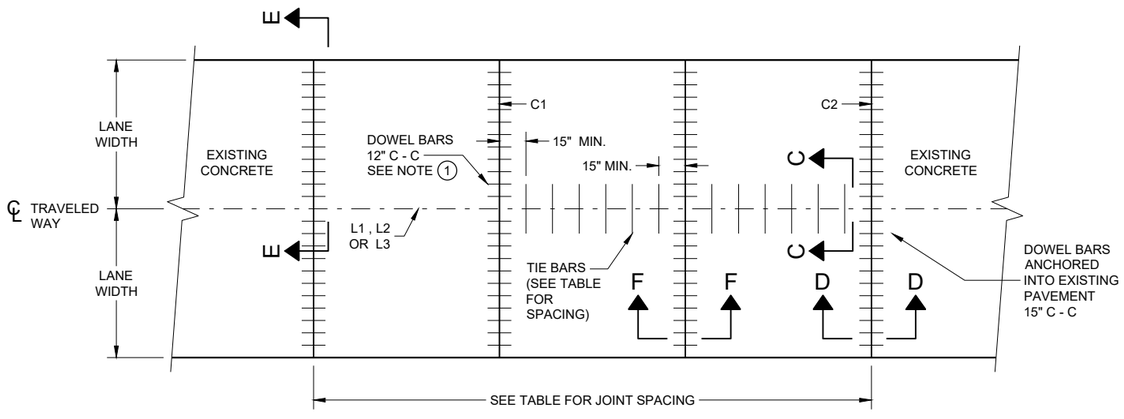
LONGITUDINAL JOINTS



SECTION D - D



SECTION E - E
SPACING OF DOWEL BARS
ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW
CONCRETE BASE
CONTRACTION JOINT LOCATIONS

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9" & ABOVE	1 ¼"	15'

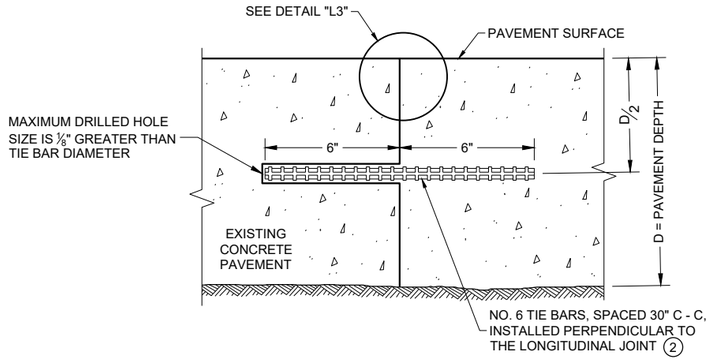
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SDD 13C15 - 07a

CONCRETE BASE

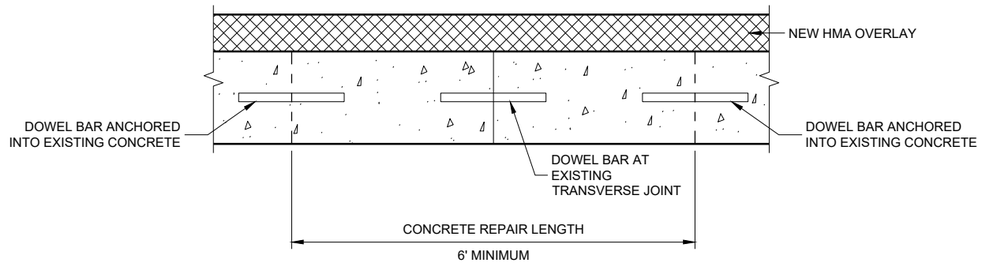
GENERAL NOTES

1. USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) AT THE LONGITUDINAL JOINT IN LIEU OF TIE BARS FOR SINGLE LANE CONCRETE BASE REPAIRS UP TO 15 FEET IN LENGTH.
2. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.
3. PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

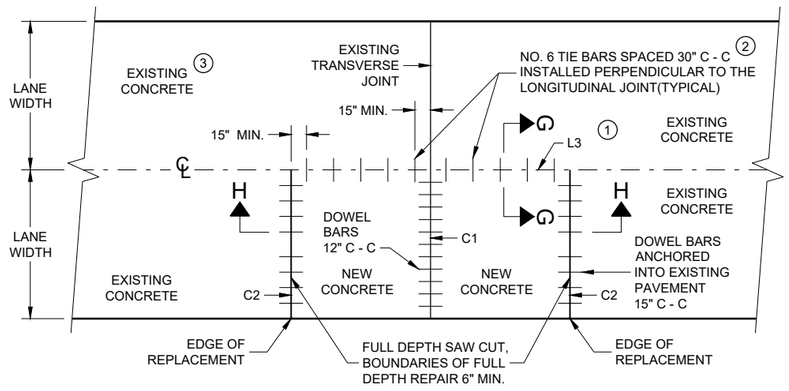


SECTION G - G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



SECTION H - H



PLAN VIEW

SINGLE LANE CONCRETE BASE REPAIR

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

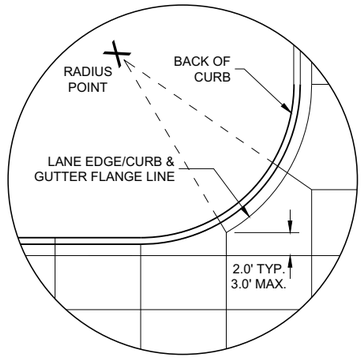
APPROVED
May 2022
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

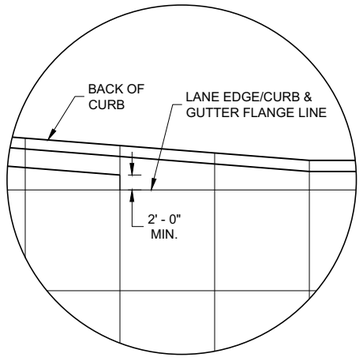
FHWA

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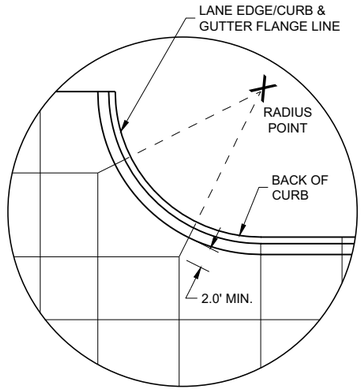
SDD 13C15 - 07b



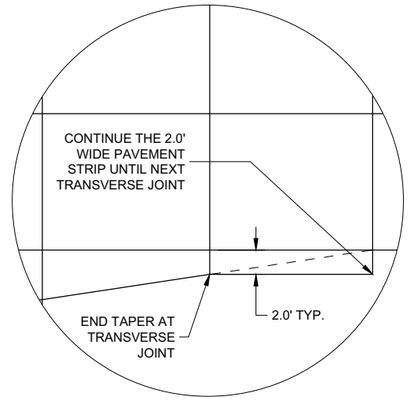
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

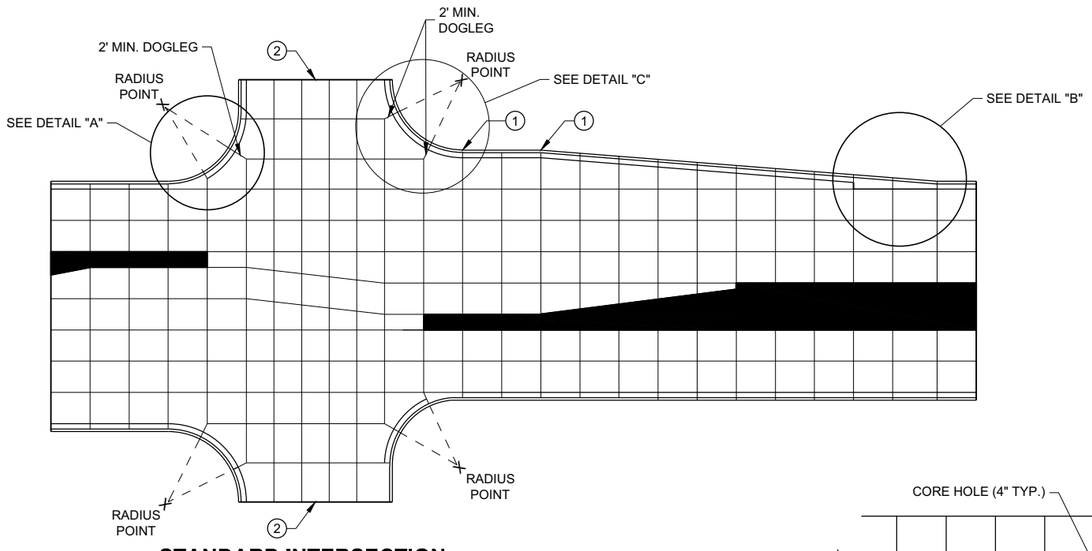
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

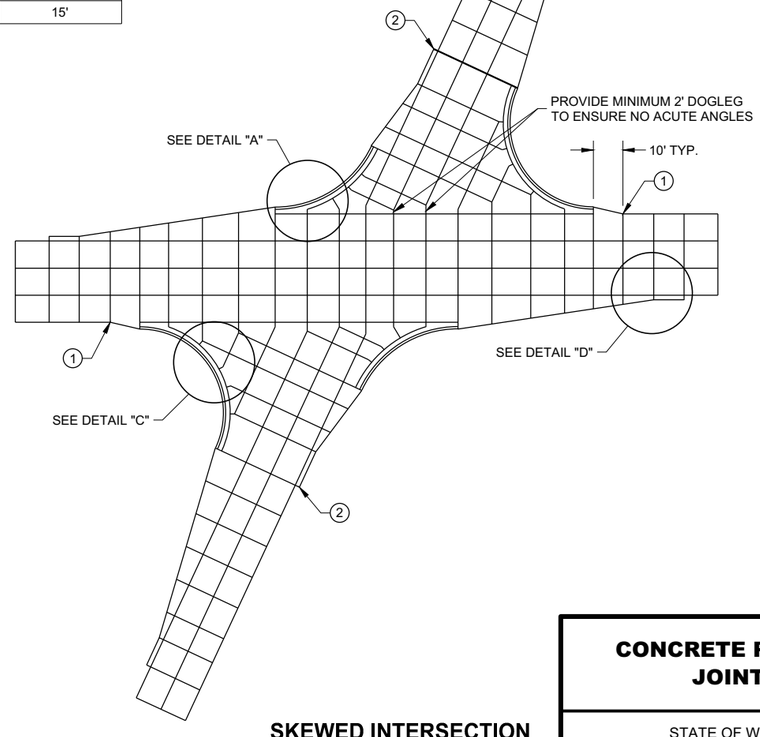
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



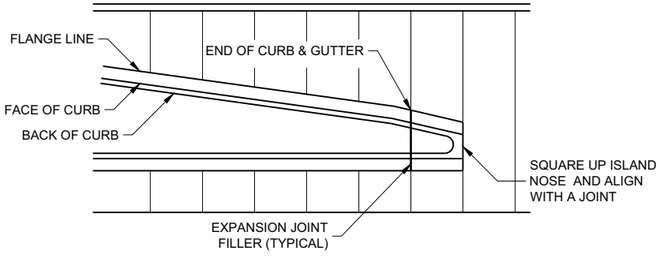
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

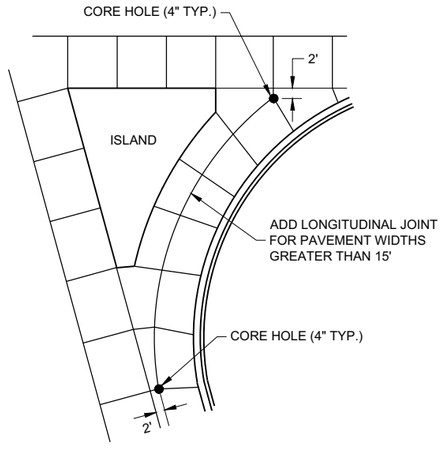
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07a

6

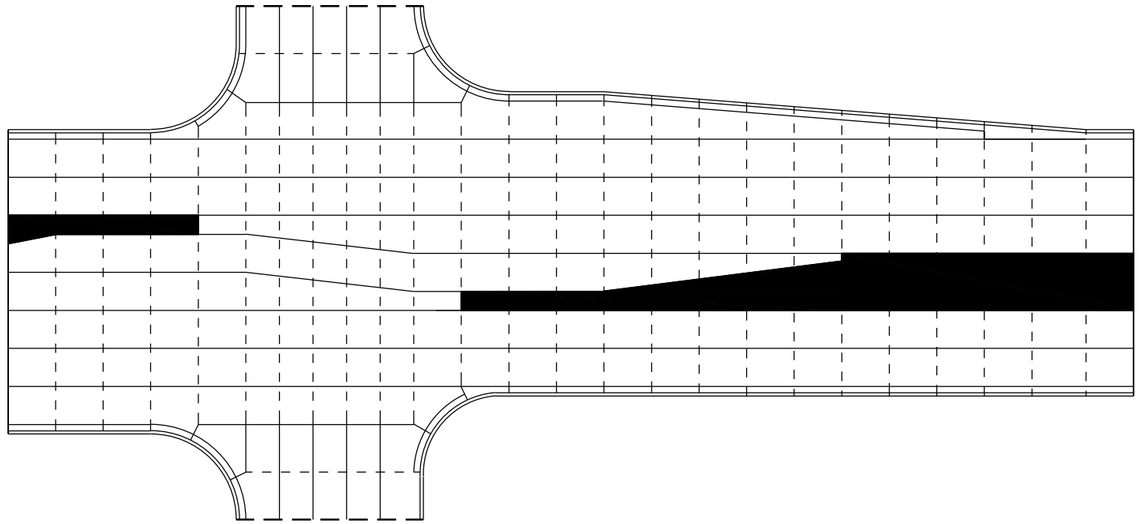
SDD 13C18 - 07a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

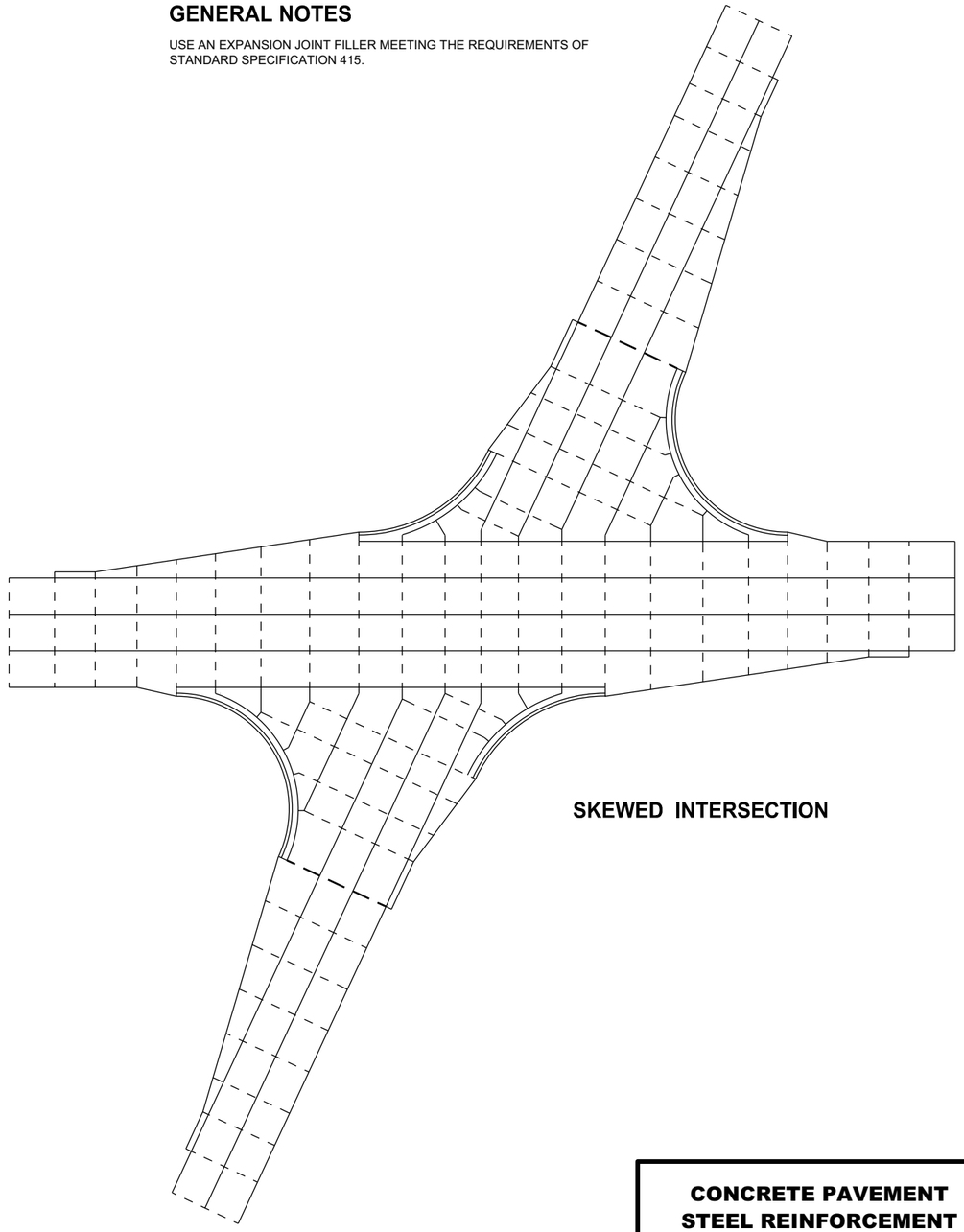
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

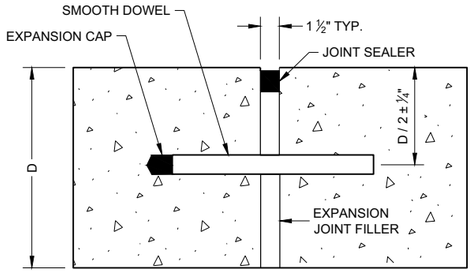
SDD 13C18 - 07b

CONCRETE PAVEMENT STEEL REINFORCEMENT

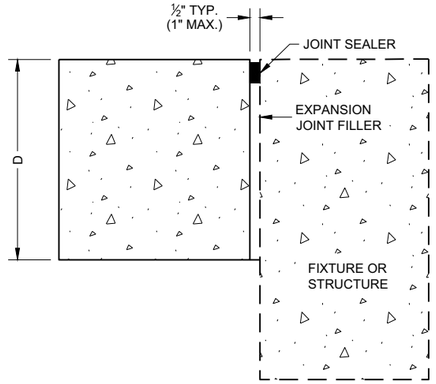
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 07b



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

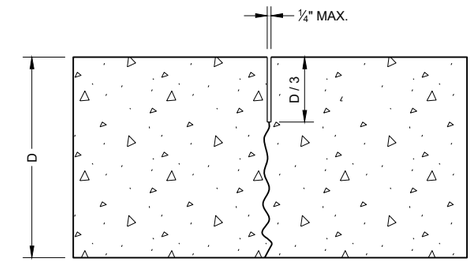
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

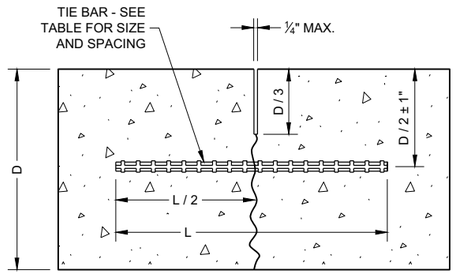
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

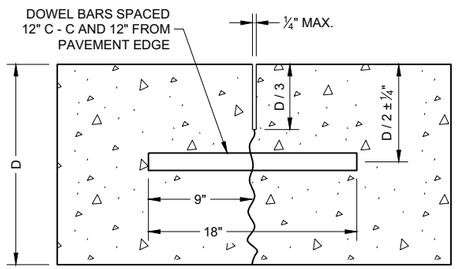
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

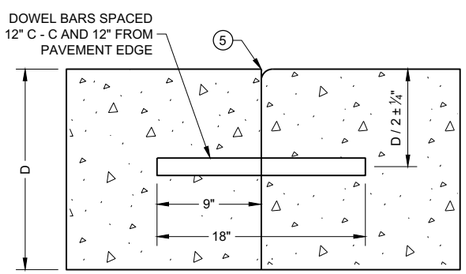


TIED LONGITUDINAL

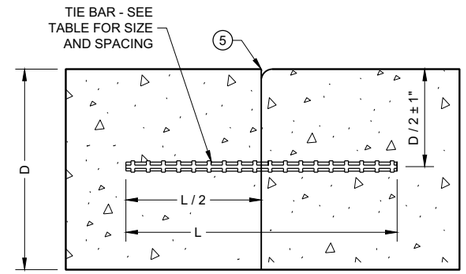


DOWELED TRANSVERSE

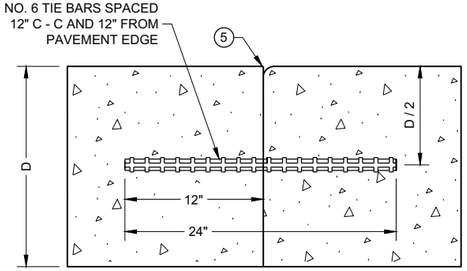
CONTRACTION JOINTS (2)



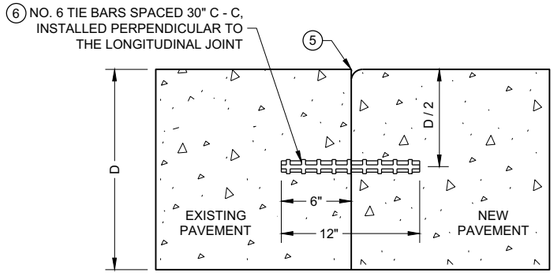
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

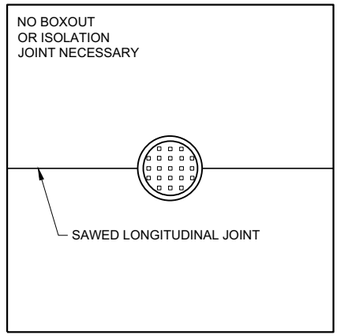
CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

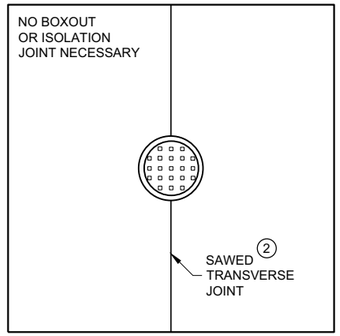
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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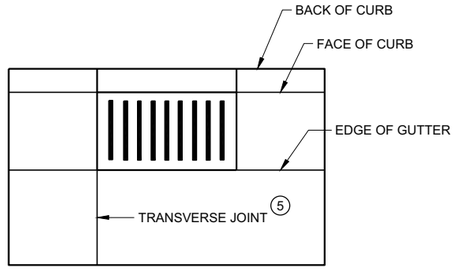
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



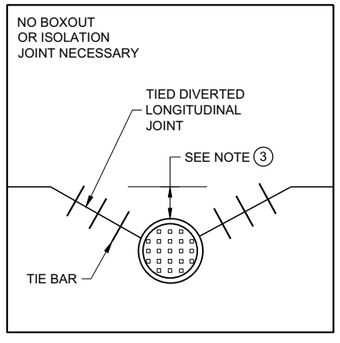
MANHOLE WITH TRANSVERSE JOINT



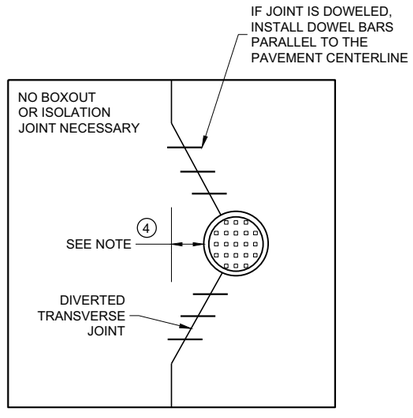
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

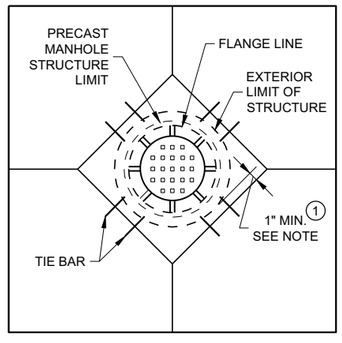
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

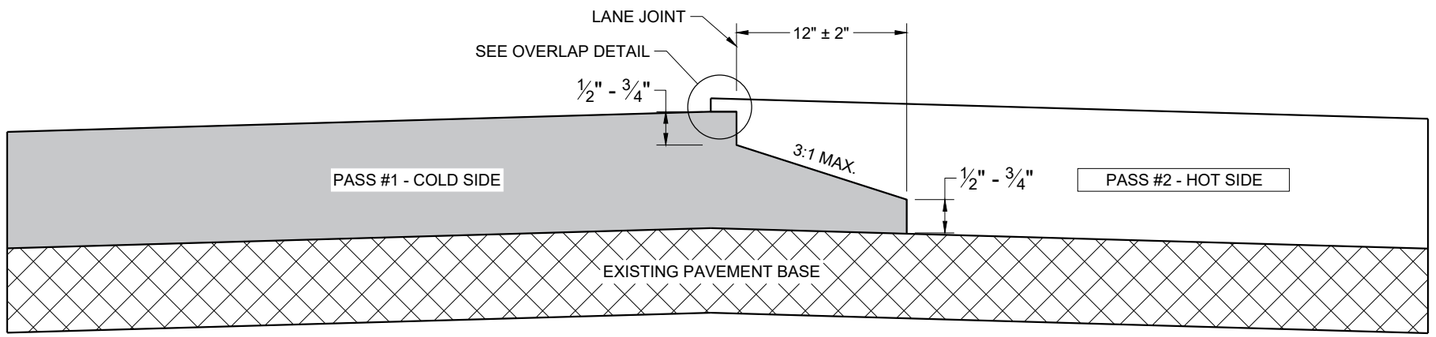
APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

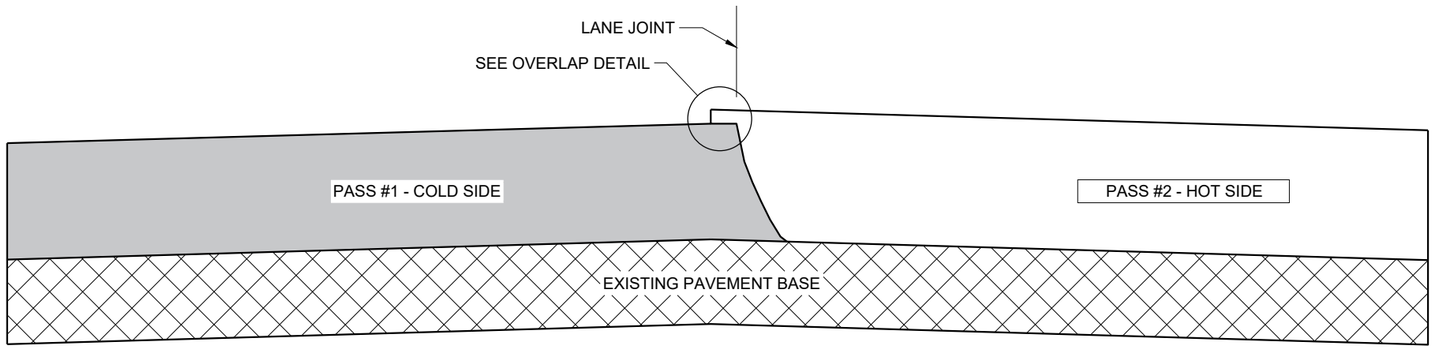
FHWA

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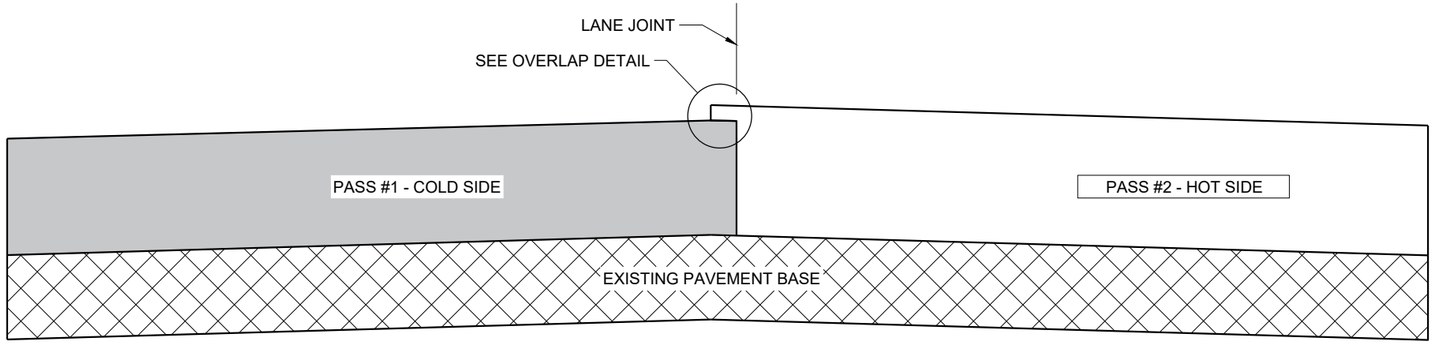
SDD 13C18 - 07d



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

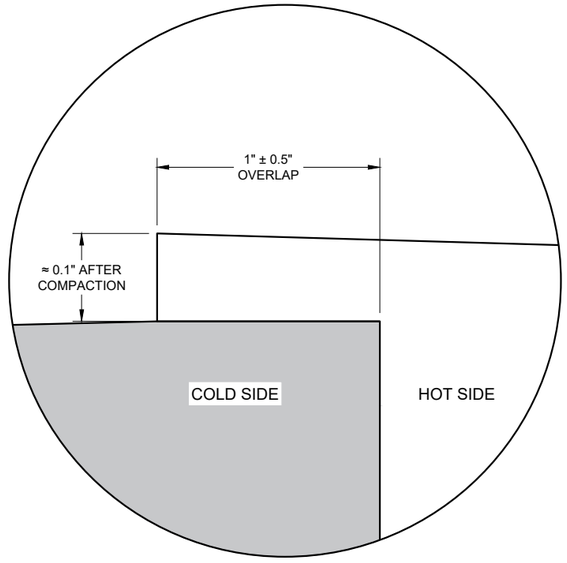
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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)

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

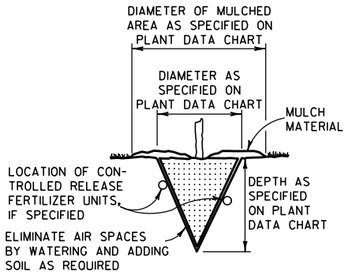
APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

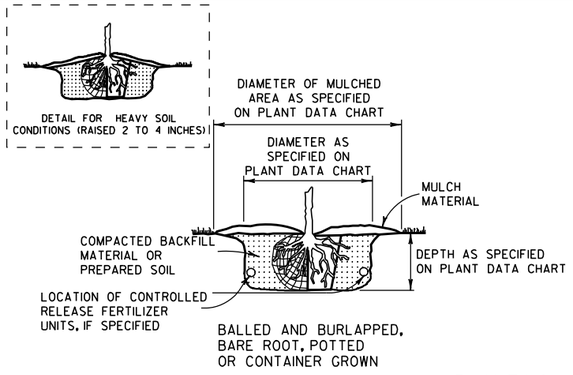
FHWA

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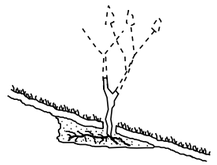
SDD 13C19 - 03



MACHINE MOVED

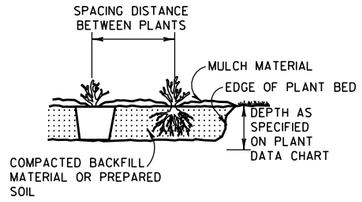


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



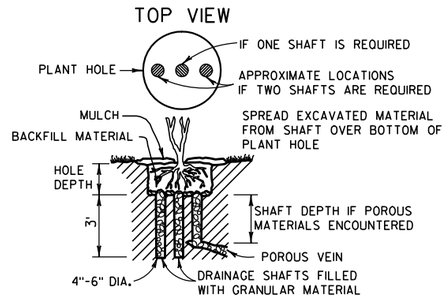
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



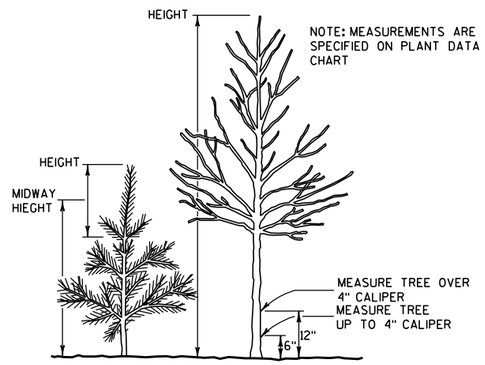
PREPARED BED (BARE ROOT AND POTTED)

PLANTING

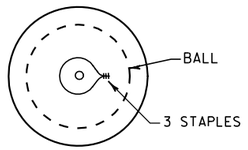


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

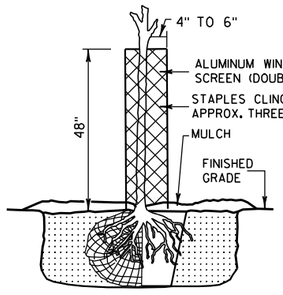
DRAINING



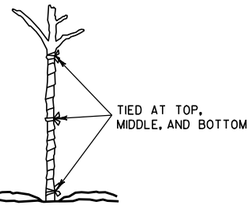
MEASURING



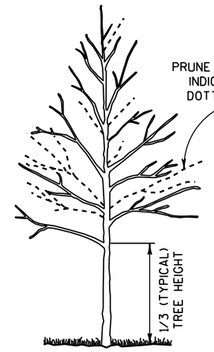
TOP VIEW



RODENT PROTECTION



WRAPPING

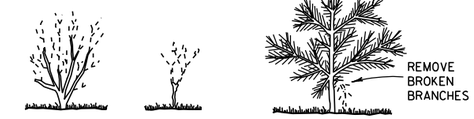


TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)

SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

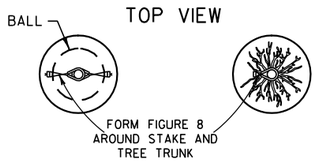


SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

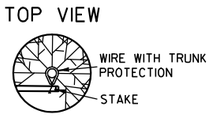
SUMAC

TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

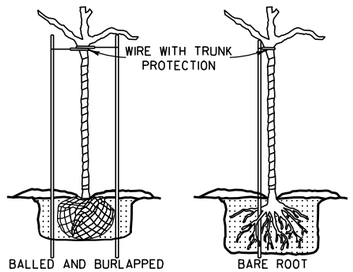
PRUNING



TOP VIEW

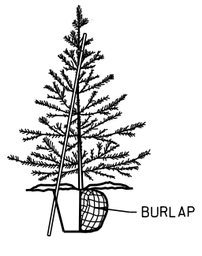


TOP VIEW



BALLED AND BURLAPPED DECIDUOUS TREES

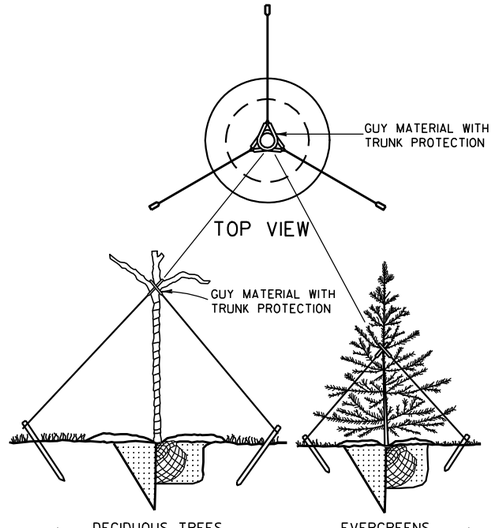
BARE ROOT DECIDUOUS TREES



EVERGREENS

NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING

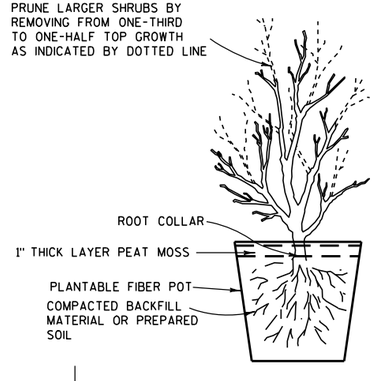


DECIDUOUS TREES

EVERGREENS

GUYING

PRUNE LARGER SHRUBS BY REMOVING FROM ONE-THIRD TO ONE-HALF TOP GROWTH AS INDICATED BY DOTTED LINE



POTTING

NOTES

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

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

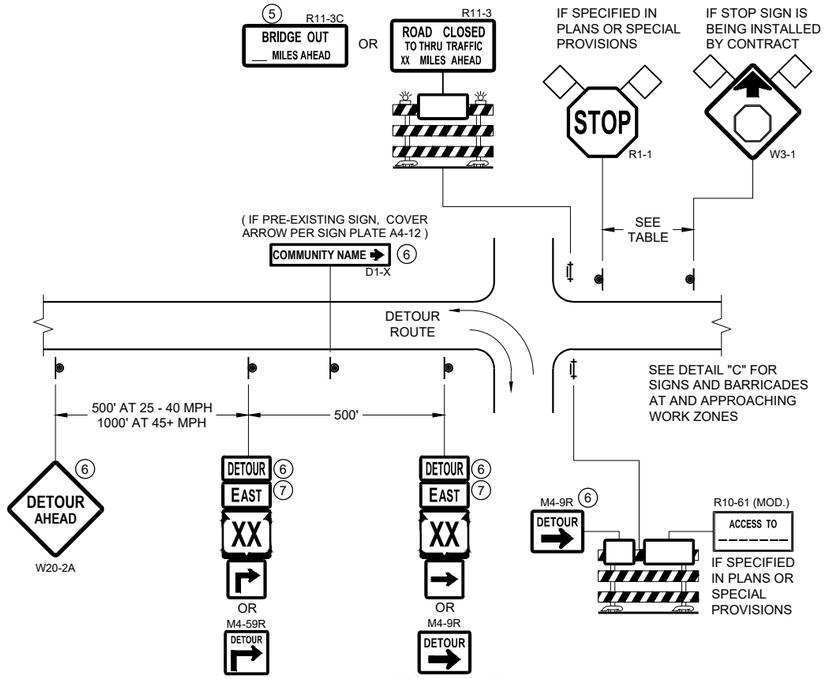
TREE PLANTING DETAIL

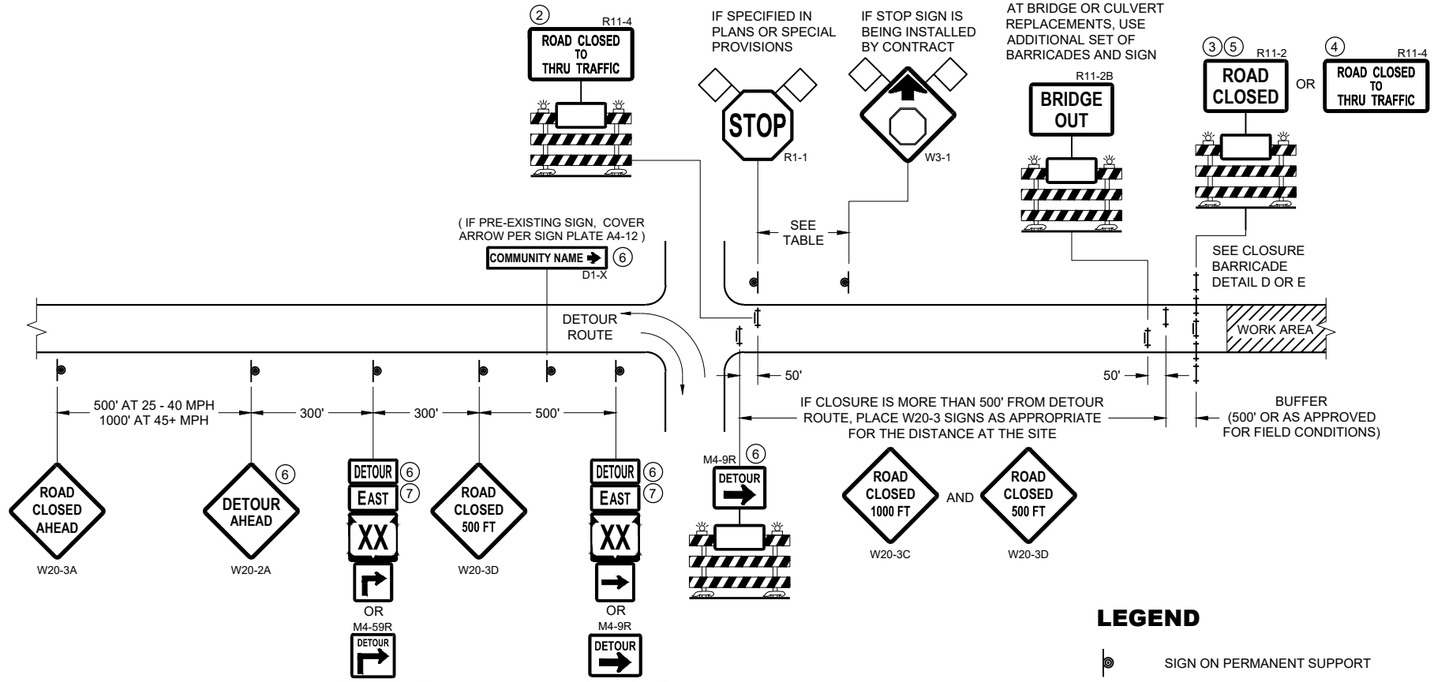
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

S.D.D. 14 A 2-1

6
S.D.D. 14 A 2-1



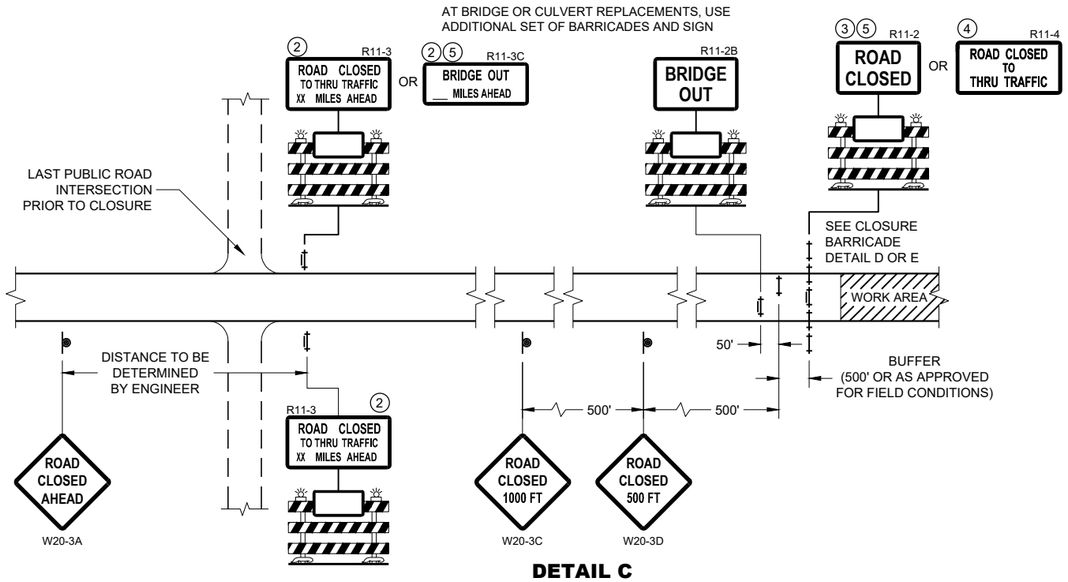


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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)



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

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

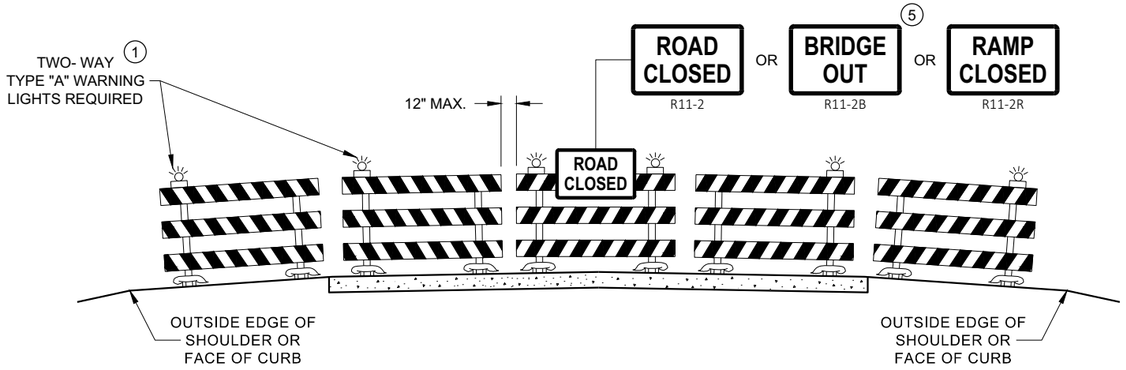
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

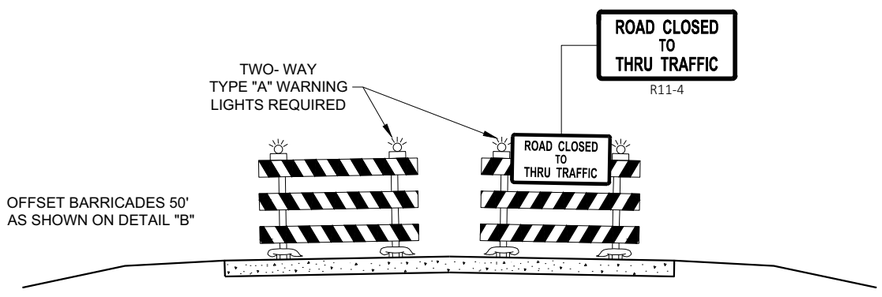
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SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 08b

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
- XX — M1 - 6
- COUNTY / X — M1 - 5A
- M05 - 1
- M06 - 1
- 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

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

500' AT 25-40 MPH
1000' AT 45+ MPH

500'

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

M4-8a END DETOUR WEST XX *

DETOUR EAST XX / WEST XX

DETOUR ROUTE

WORK AREA

DETOUR EAST XX

WEST XX OR M4-9L DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR NEXT X MILES * G20-51

DETOUR WEST XX * OR M4-59L DETOUR ** IF TOWN ROAD OR LOCAL STREET

MATCH POINT

* M4-59L DETOUR ** OR DETOUR EAST XX * IF TOWN ROAD OR LOCAL STREET

D1-X COMMUNITY NAME * (IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

500'

M4-9L DETOUR ** OR DETOUR EAST XX IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX

DETOUR WEST XX OR M4-9R DETOUR ** IF TOWN ROAD OR LOCAL STREET

DETOUR WEST XX * OR M4-59R * DETOUR ** IF TOWN ROAD OR LOCAL STREET

500'

DETOUR ROUTE

500' AT 25 - 40 MPH
1000' AT 45+ MPH

500'

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR AS SPECIFIED IN THE CONTRACT

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

DETOUR EAST XX

DETOUR EAST XX

500'

DETOUR EAST XX *

D1-X COMMUNITY NAME *
(IF PRE-EXISTING SIGN, COVER ARROW PER SIGN PLATE A4-12)

PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA)

500' AT 25 - 40 MPH
1000' AT 45+ MPH

DETOUR EAST XX *

M3-X 24" X 12"
M1-X 24" X 24"
DETOUR AHEAD
W20-2A
USE ON STATE TRUNK, U.S. OR INTERSTATE HIGHWAYS, OR 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

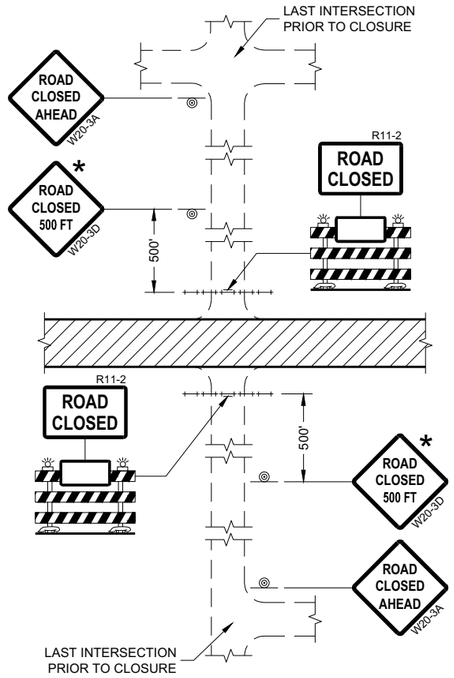
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

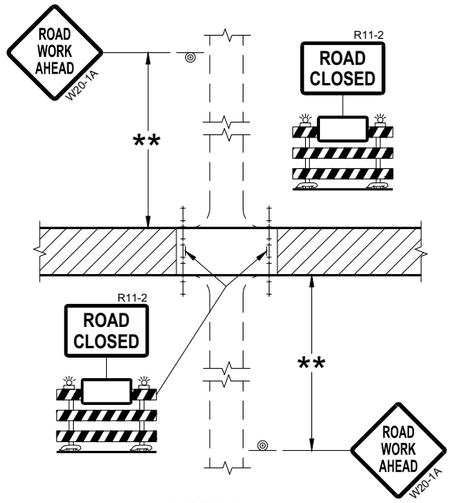
SDD 15C02 - 08c

6

SDD 15C02 - 08c



DETAIL 1
(NO ACCESS TO PROJECT)



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

GENERAL NOTES

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

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

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

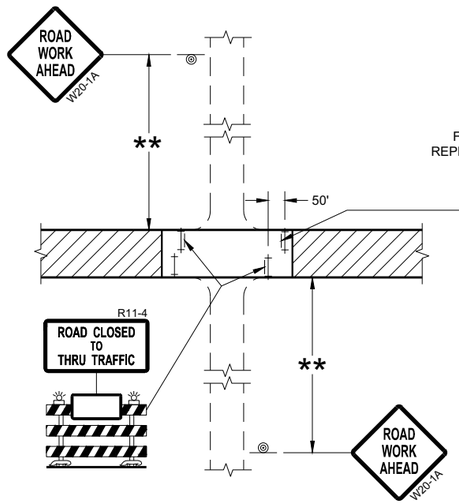
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

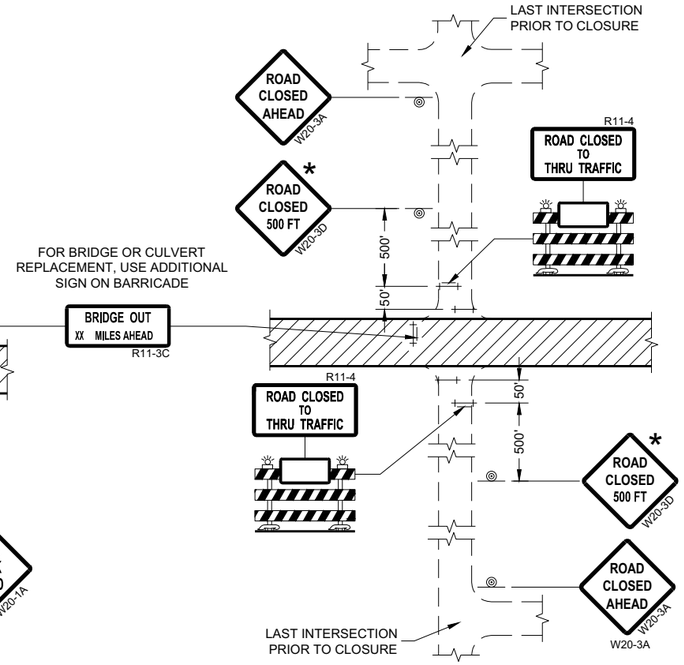
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



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



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

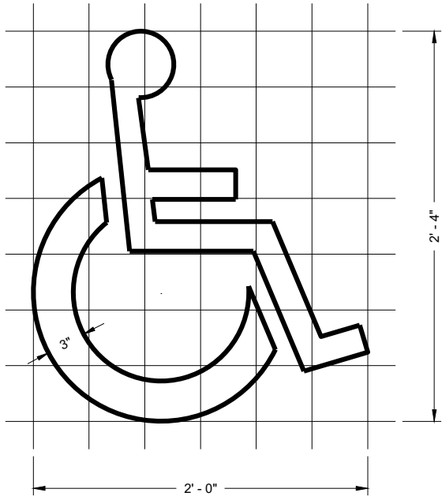
6

SDD 15C03 - 05

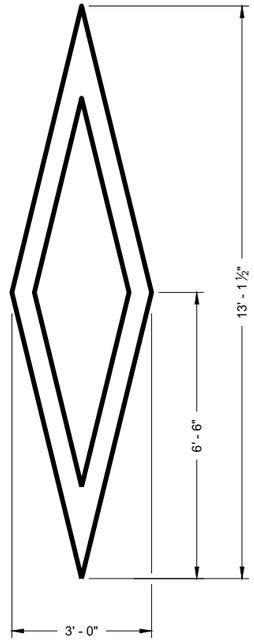
SDD 15C03 - 05

GENERAL NOTES

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



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

SDD 15C07 - 15a

SDD 15C07 - 15a

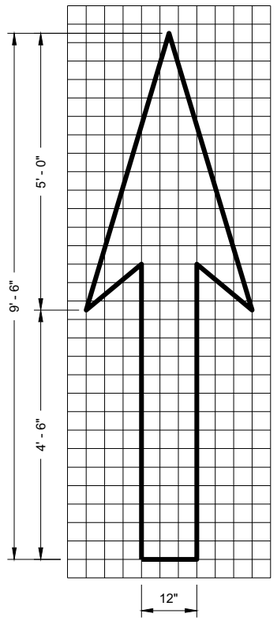
PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

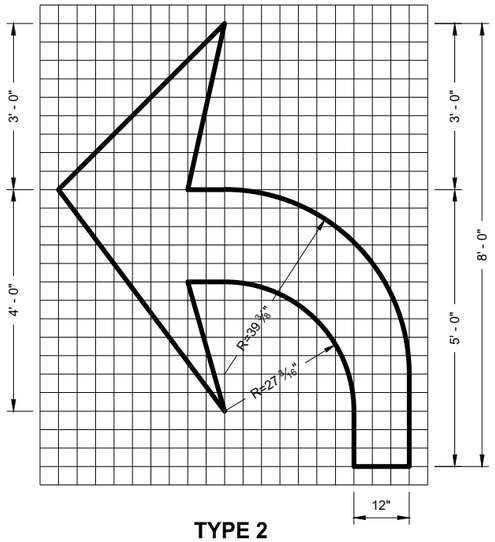
APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAR ENGINEER

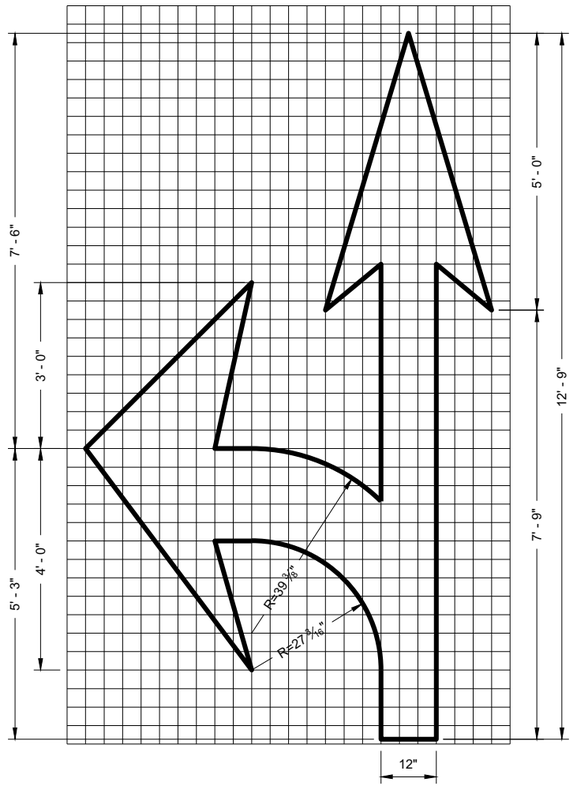
FHWA



TYPE 1



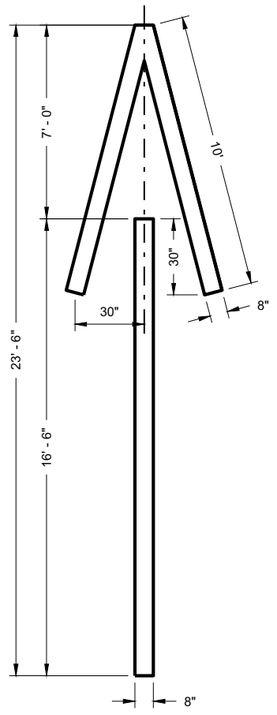
TYPE 2



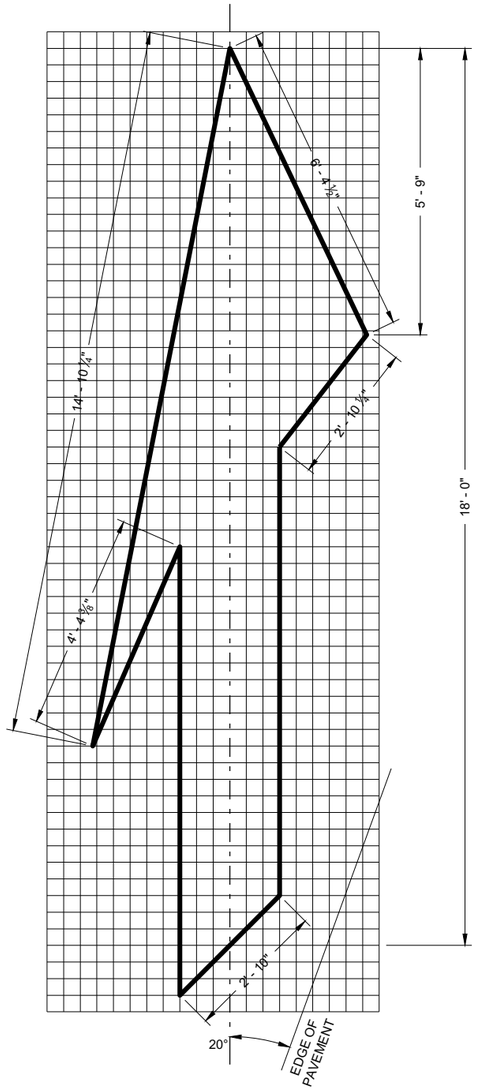
TYPE 3

GENERAL NOTES

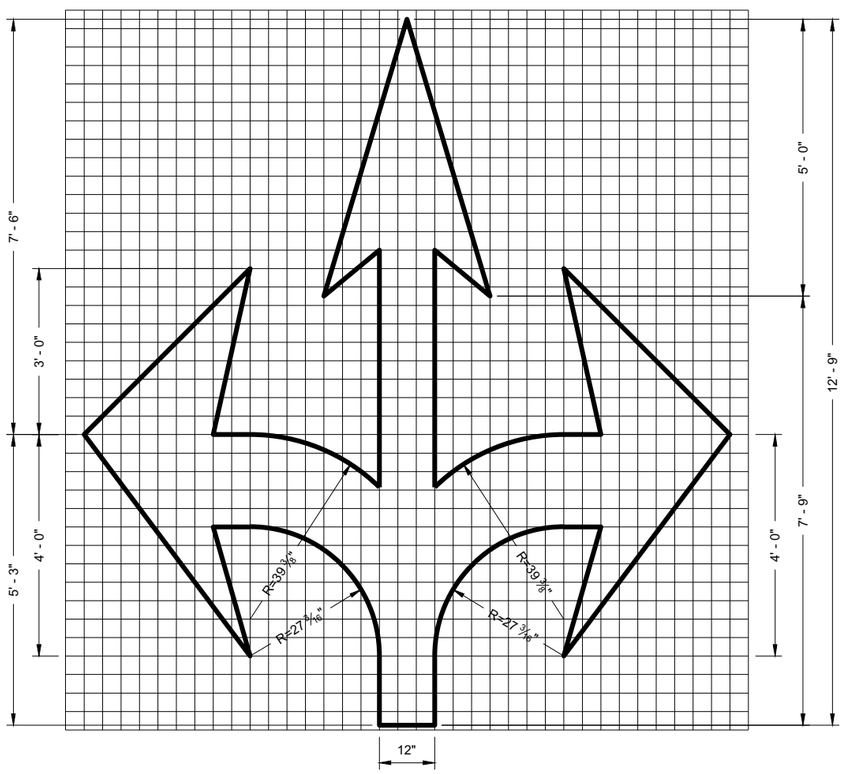
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



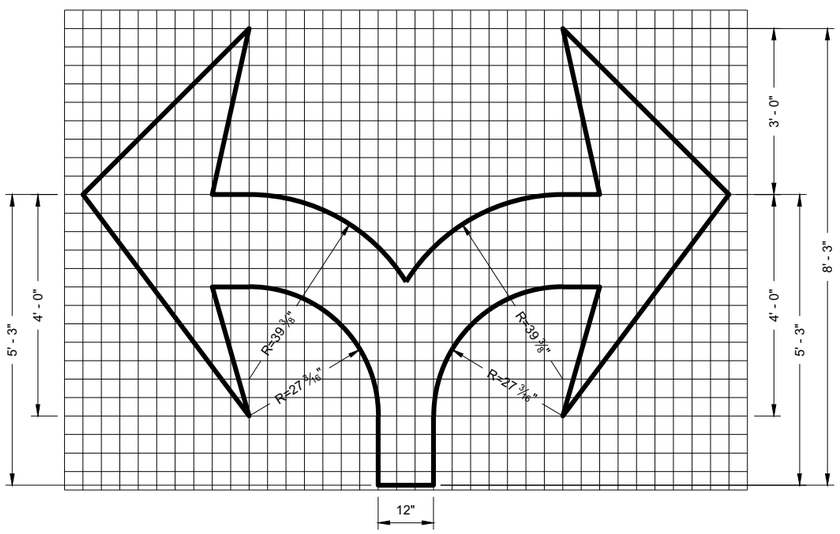
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER
240

FHWA

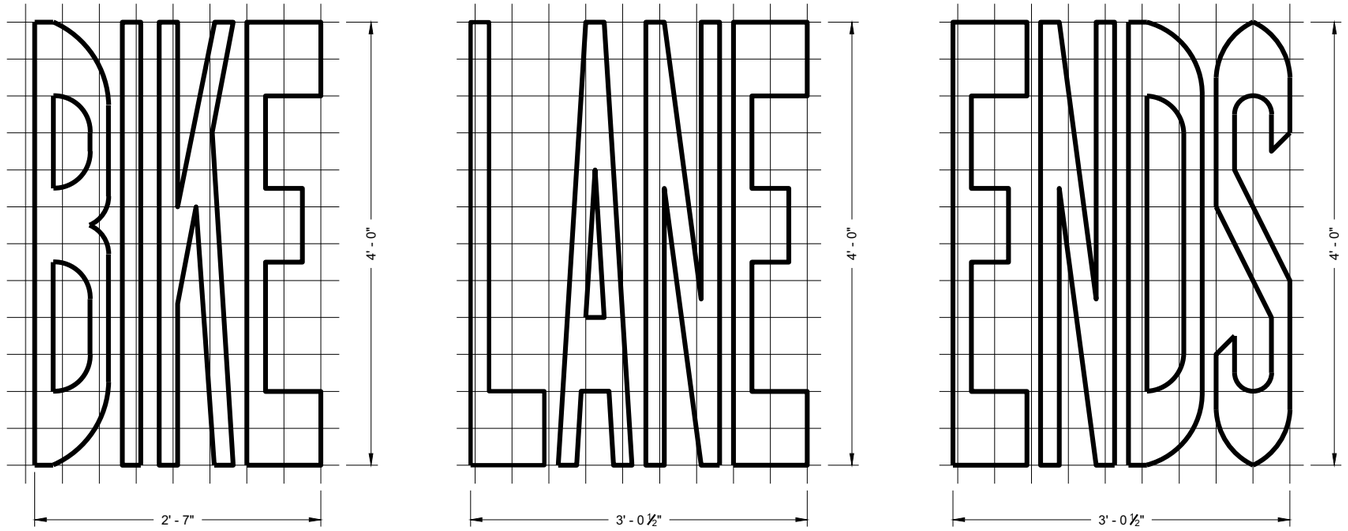
6

SDD 15C07 - 15c

6

SDD 15C07 - 15c

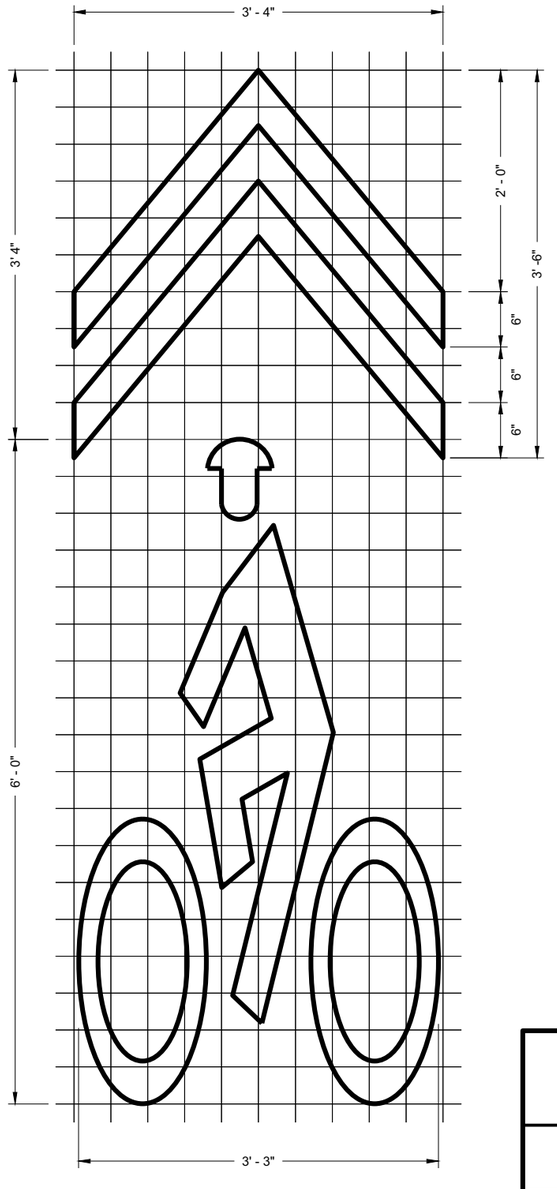
SDD 15C7-e Pavement Marking For Bike Lanes

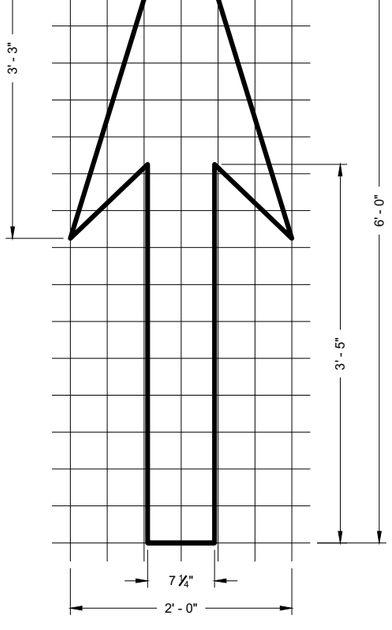


BIKE LANE WORDS

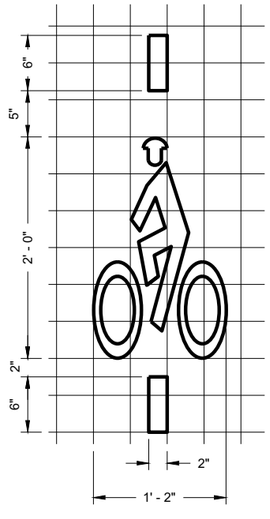
GENERAL NOTES

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

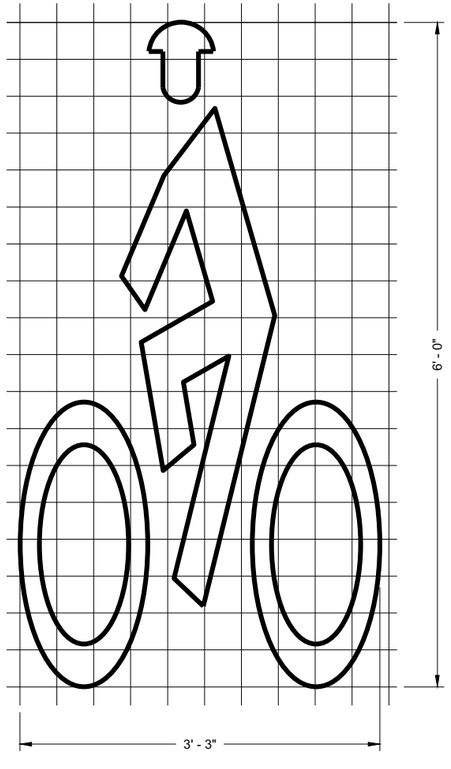




BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

BIKE LANE SYMBOL FOR SHARED LANE

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C07 - 15e

6

SDD15C07 - 15e

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

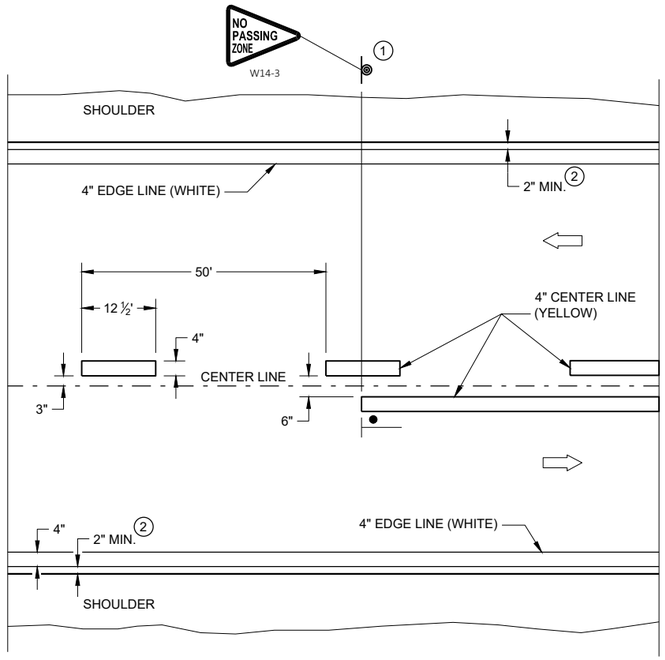
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

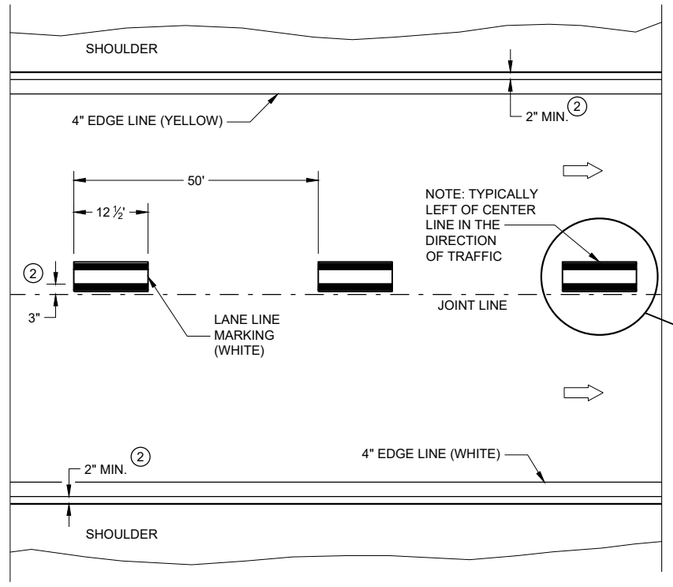
"T" MARKING

SIGN ON PERMANENT SUPPORT

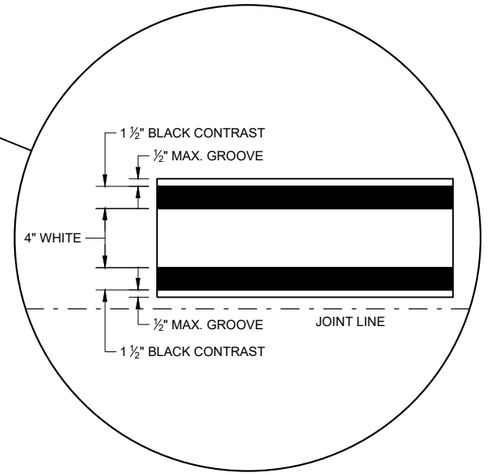
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

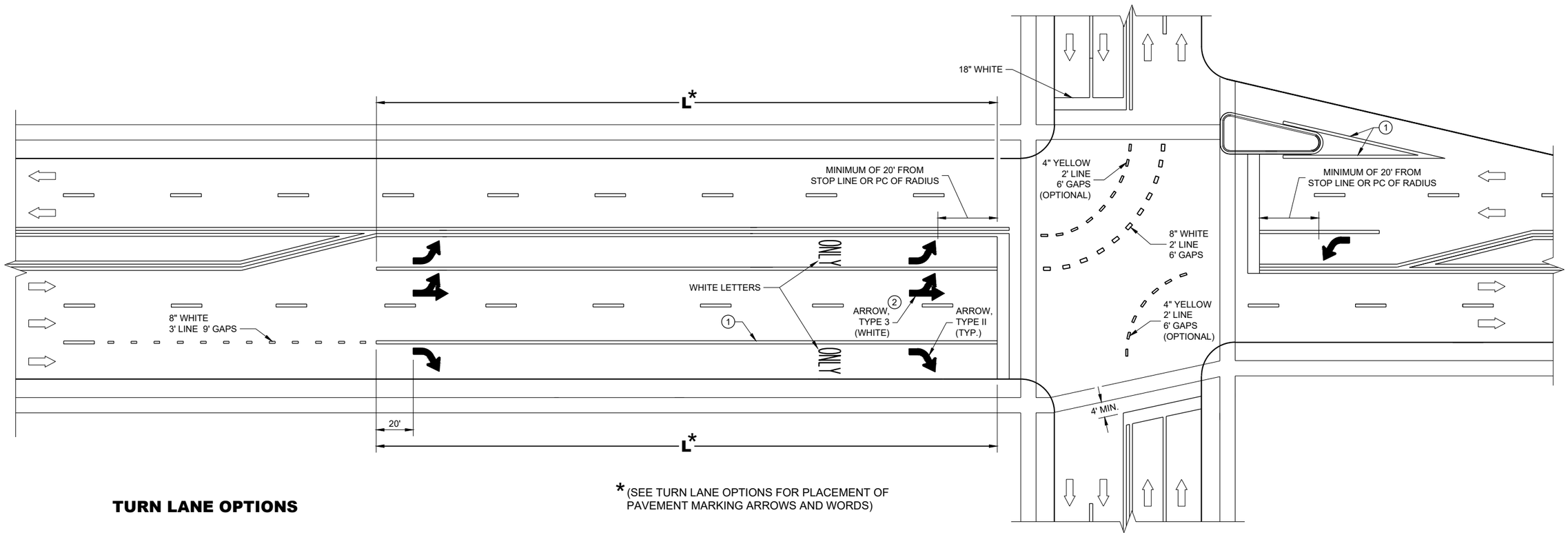
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022 — DATE
/S/ Jeannie Silver — STATEWIDE SIGNING AND M ENGINEER

FHWA

SDD 15C08 - 22a

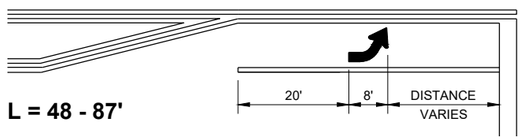
SDD 15C08 - 22a



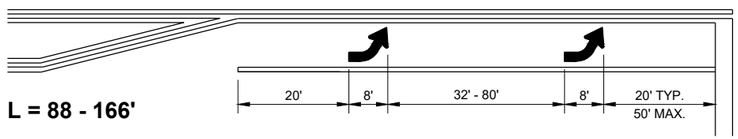
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

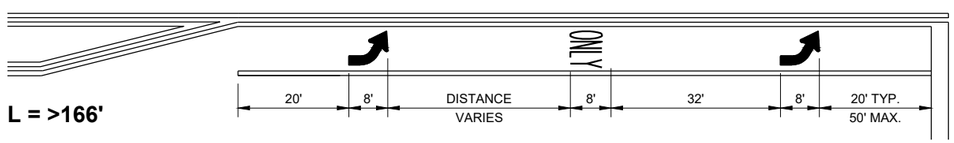
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

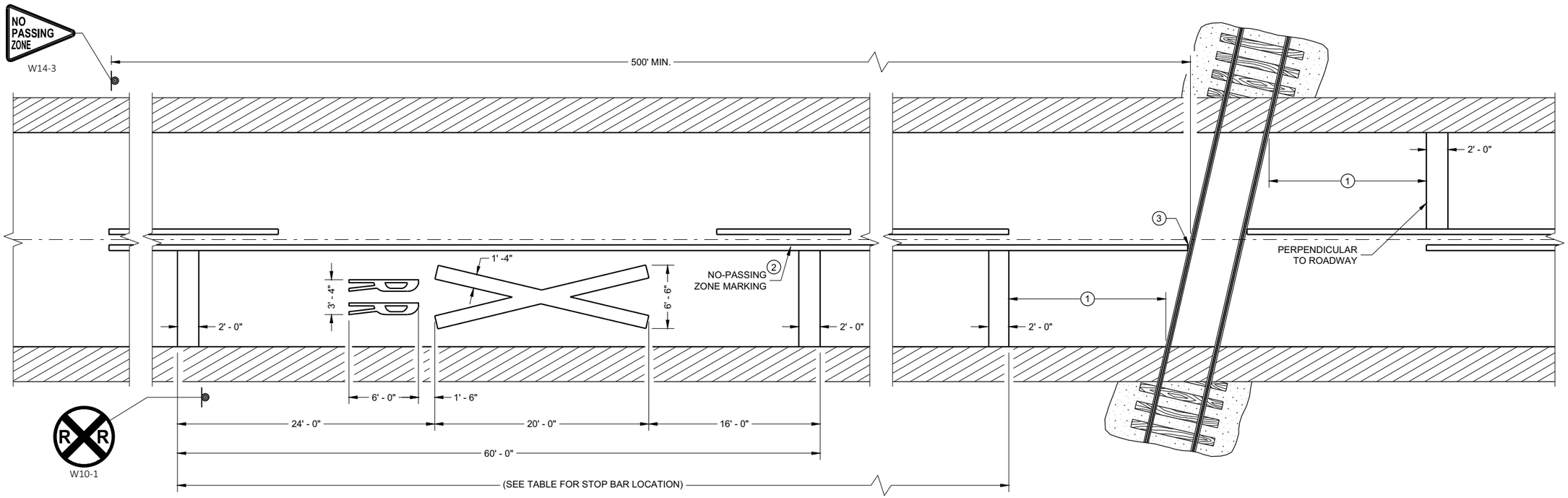
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 15C08 - 22d

6
SDD 15C08 - 22d



PAVEMENT MARKING

LEGEND

SIGN ON PERMANENT SUPPORT

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.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

(1) MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNAL , GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.

(2) 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

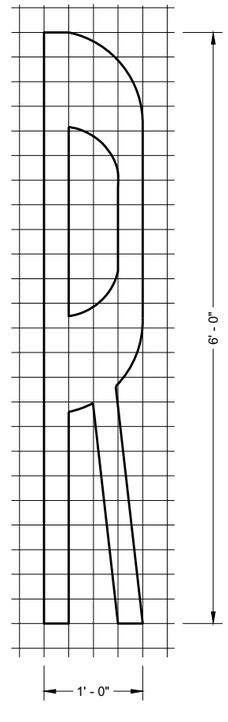
(3) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

DISTANCE TABLE

TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

POSTED SPEED (M.P.H.)	DIMENSION RANGE (FEET)
25	150* - 250'
30	200* - 300'
35	250* - 450'
40	300* - 500'
45	400* - 650'
50	550* - 800'
55	750* - 1000'
60	1000* - 1250'
65	1000* - 1250'

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSED PROXIMITY OF DRIVEWAYS, BRIDGES, SIDE ROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.



SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

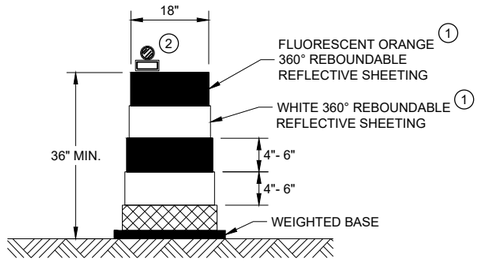
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SDD 15C09 - 12a

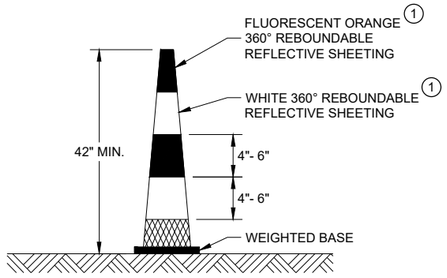
SDD 15C09 - 12a

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.

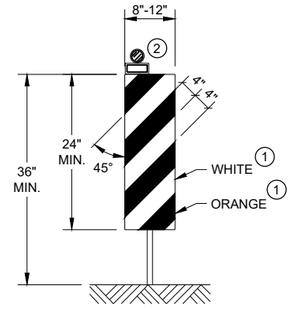


DRUM



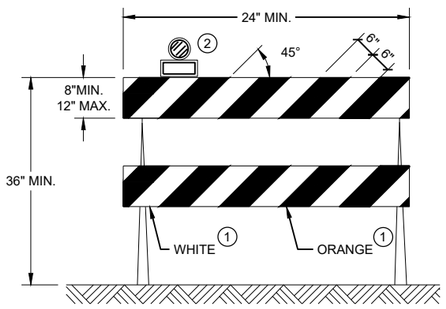
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



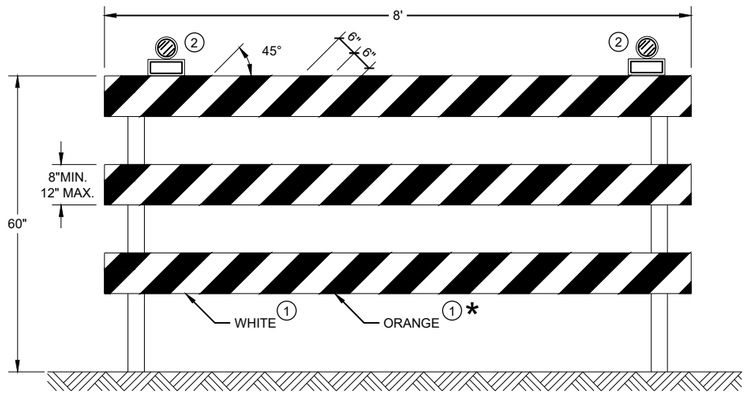
VERTICAL PANEL

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

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DEPARTMENT OF TRANSPORTATION

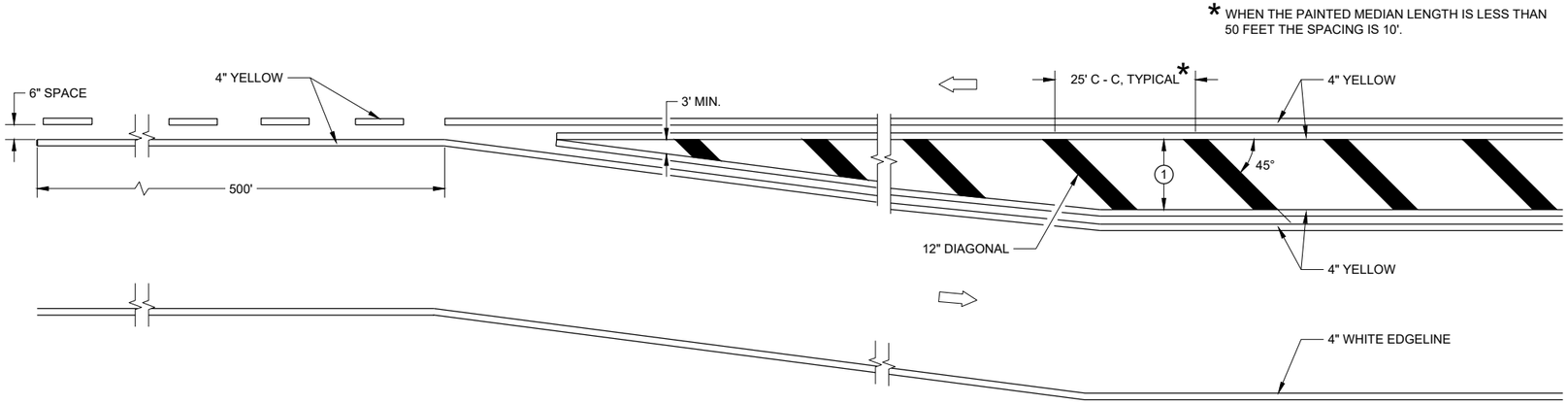
APPROVED
May 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

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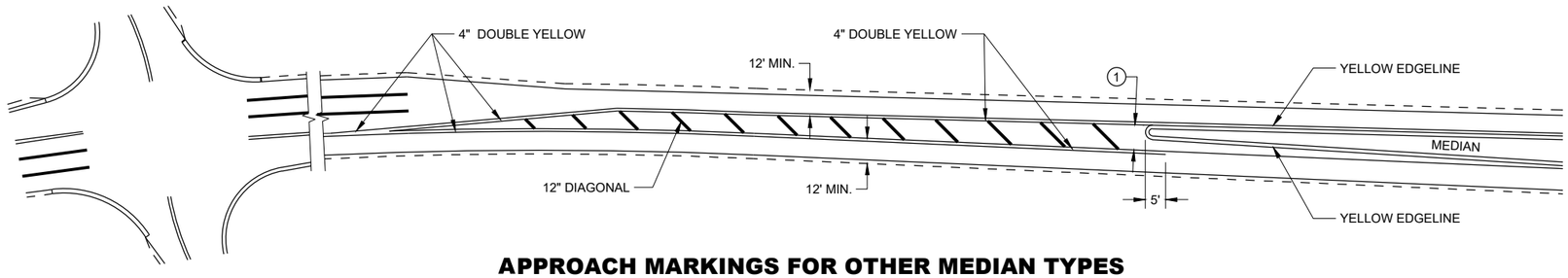
SDD15C11 - 09b

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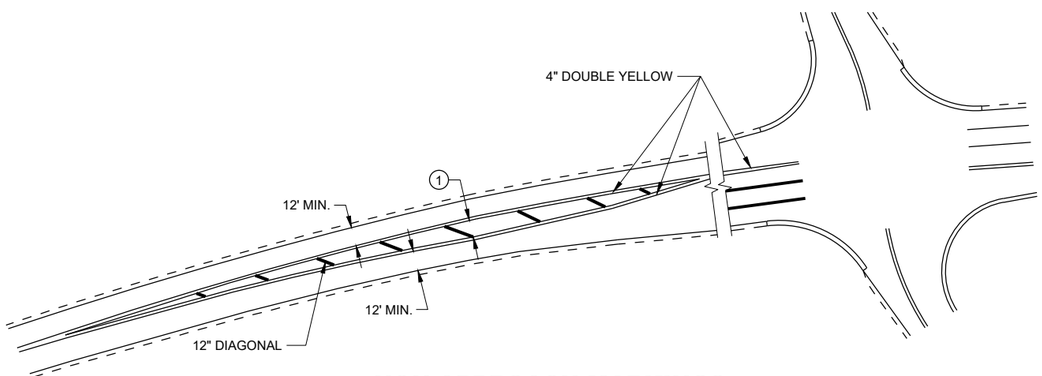
SDD15C11 - 09b



MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

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

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2022
DATE

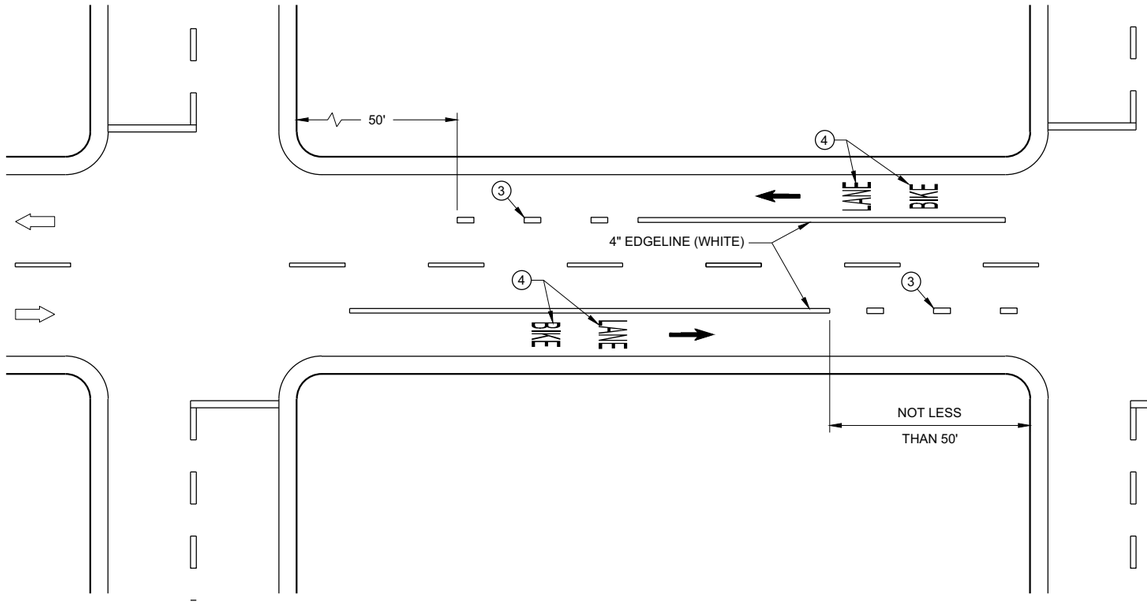
/S/ Jeannie Silver
STATE SIGNING AND MAF ENGINEER

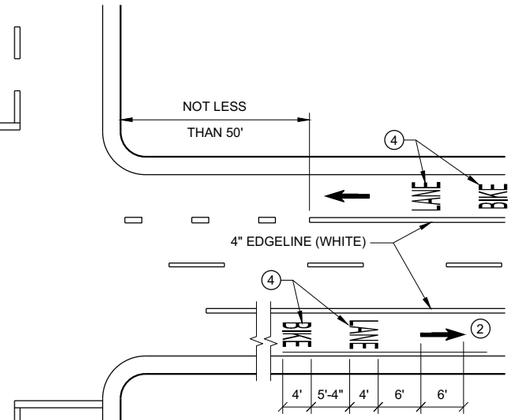
FHWA

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SDD 15C18 - 06a

SDD 15C18 - 06a



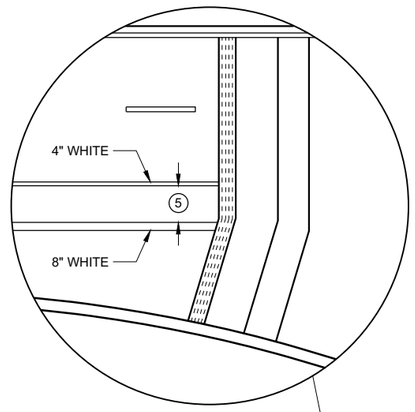


GENERAL NOTES

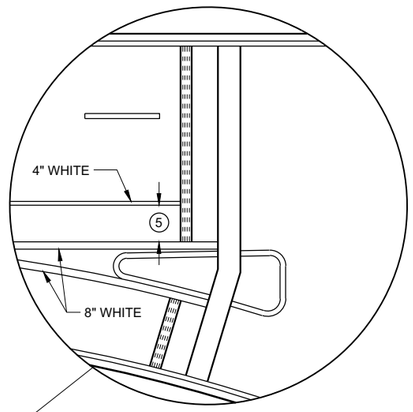
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. BIKE SYMBOLS OR WORDS MAY BE USED.
5. BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

DIRECTION OF TRAVEL

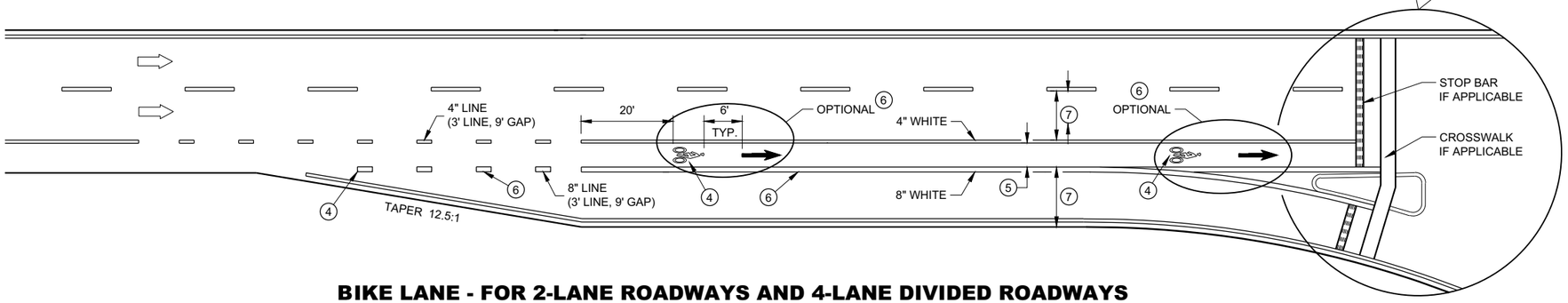
DESIGNATED BIKE LANE - NO PARKING



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BIKE LANE MARKING

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May 2020 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER
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SDD 15C29 - 07a

GENERAL NOTES

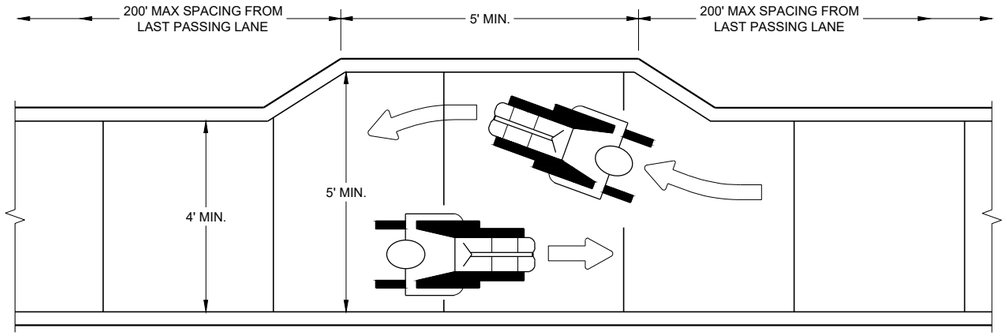
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

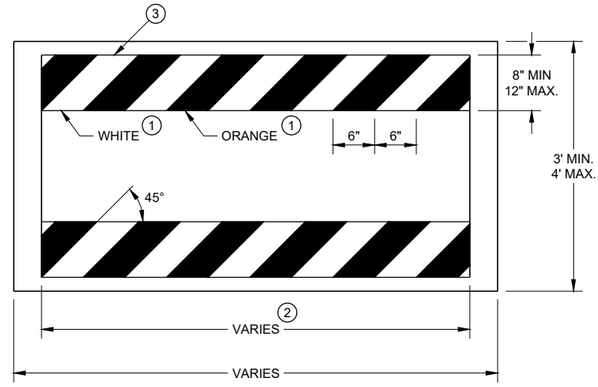
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

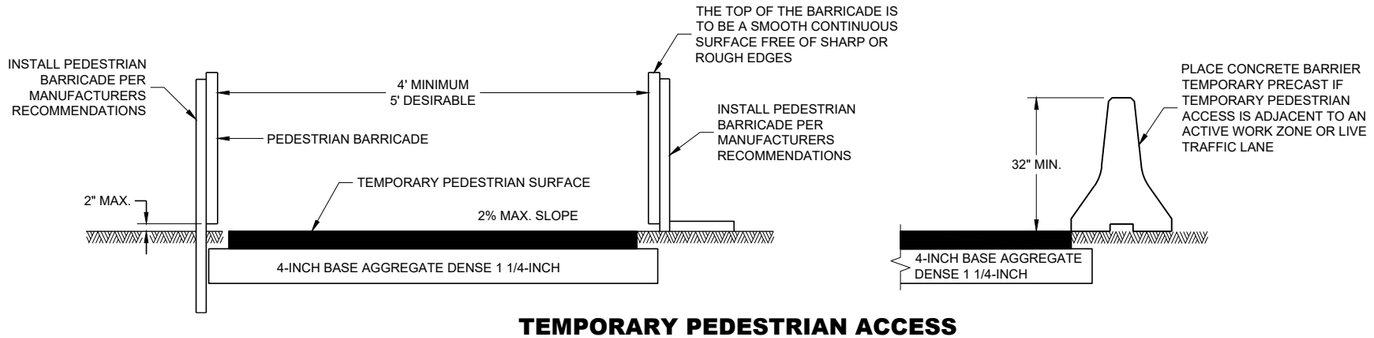
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN BARRICADE*

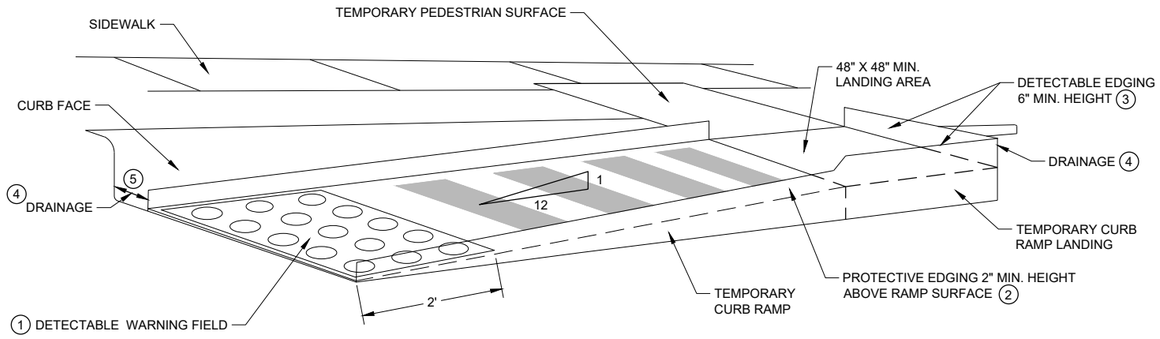


TEMPORARY PEDESTRIAN ACCESS

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

SDD 15D30 - 07a



PERSPECTIVE VIEW

GENERAL NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.

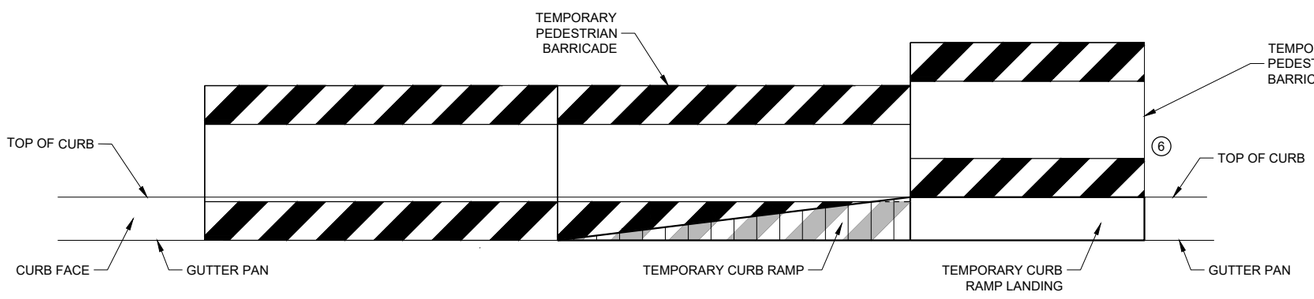
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

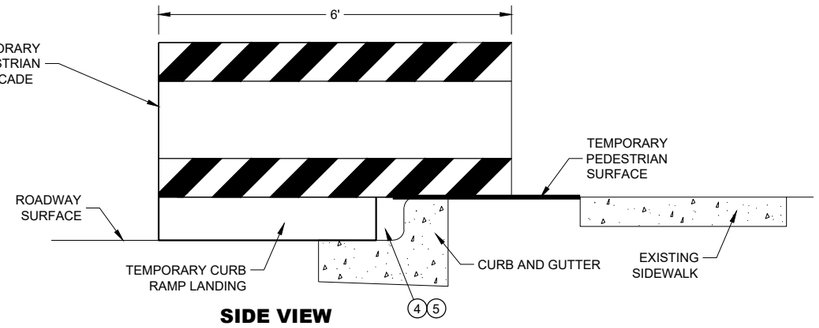
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) 6" MINIMUM BETWEEN CURB FACE AND EDGE OF RAMP

(6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



FRONT VIEW



SIDE VIEW

TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

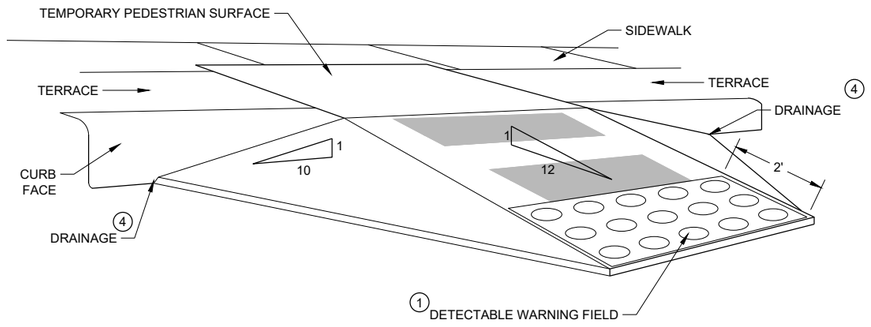
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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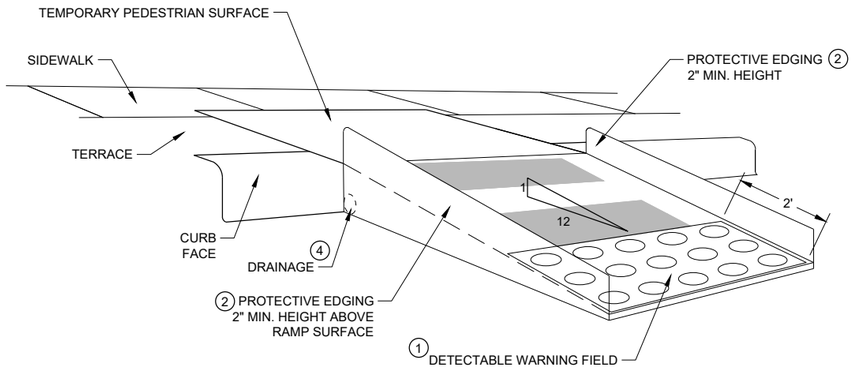
SDD 15D30 - 07b

6

SDD 15D30 - 07b



WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

6

SDD 15D30 - 07c

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

GENERAL NOTES

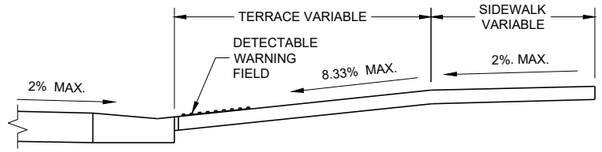
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

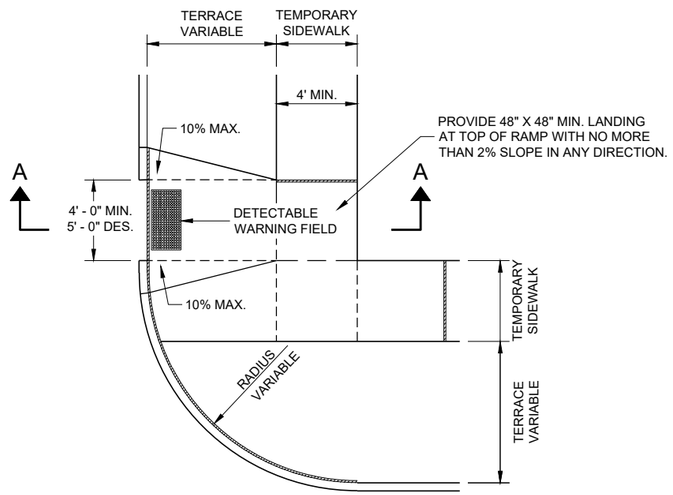
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



SECTION A - A



PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

6

6

SDD 15D30 - 07d

SDD 15D30 - 07d

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

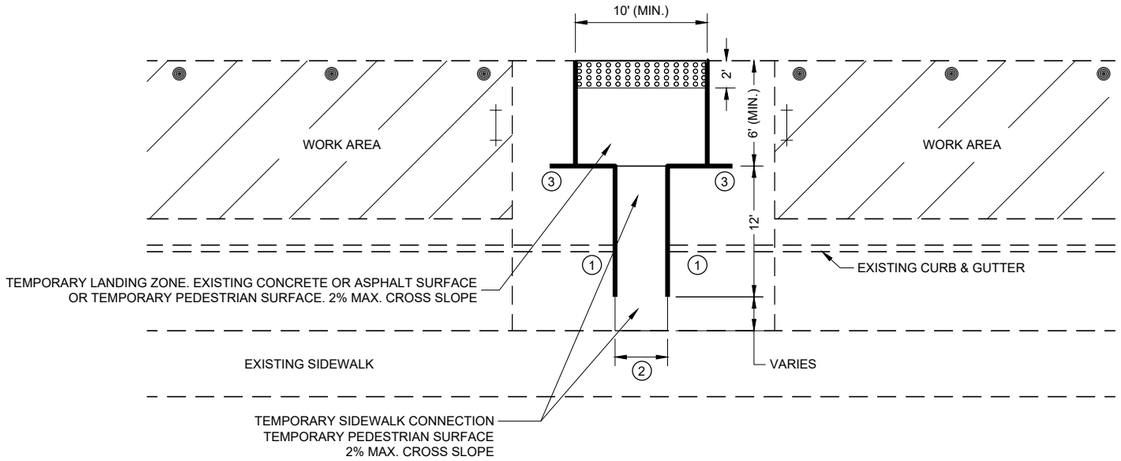
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

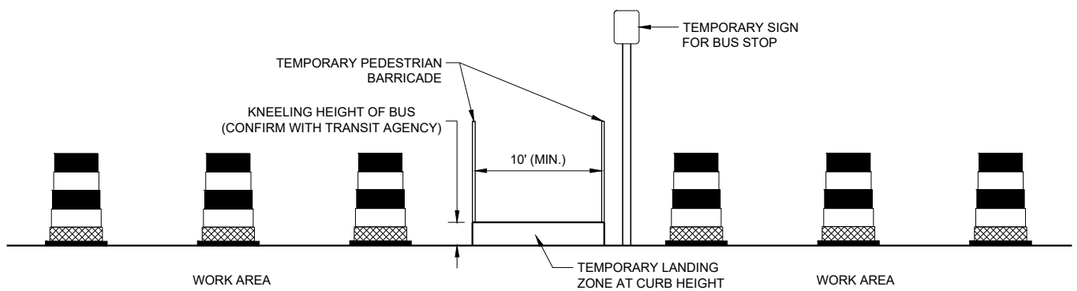
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

(1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.

(3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY DETECTABLE WARNING FIELD
- WORK AREA

6

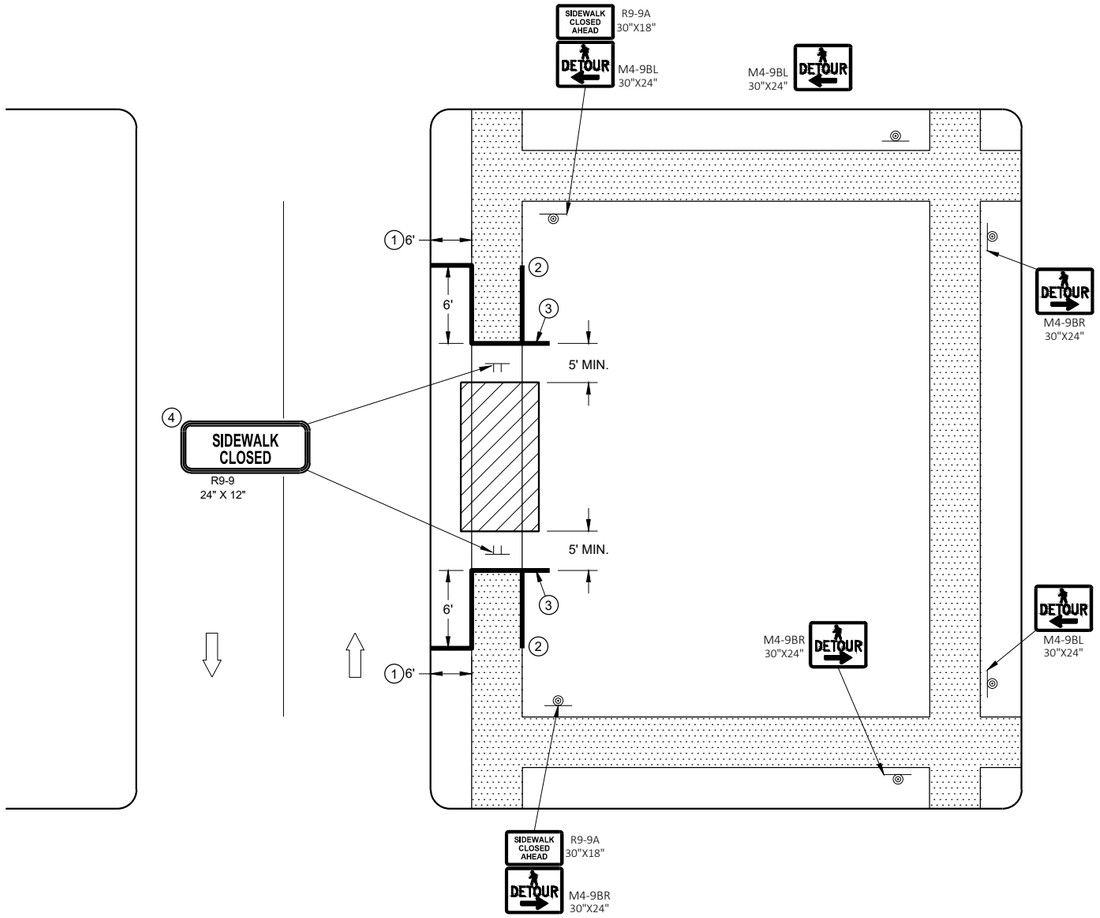
SDD 15D30 - 07e

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC



SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

SDD 15D30 - 07f

LEGEND

- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY PEDESTRIAN SURFACE
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

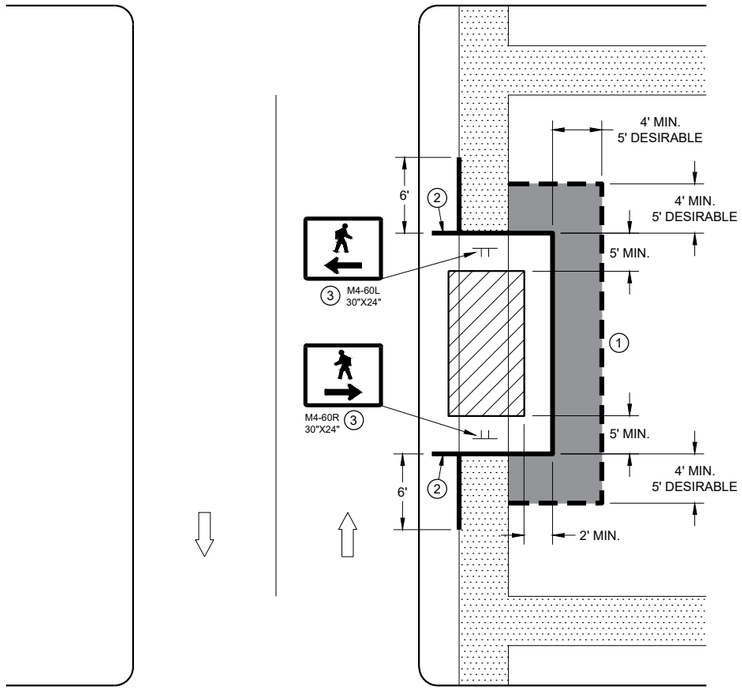
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

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

1. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
2. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK DIVERSION
SINGLE SIDE

6

SDD 15D30 - 07g

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD15D30 - 07g

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

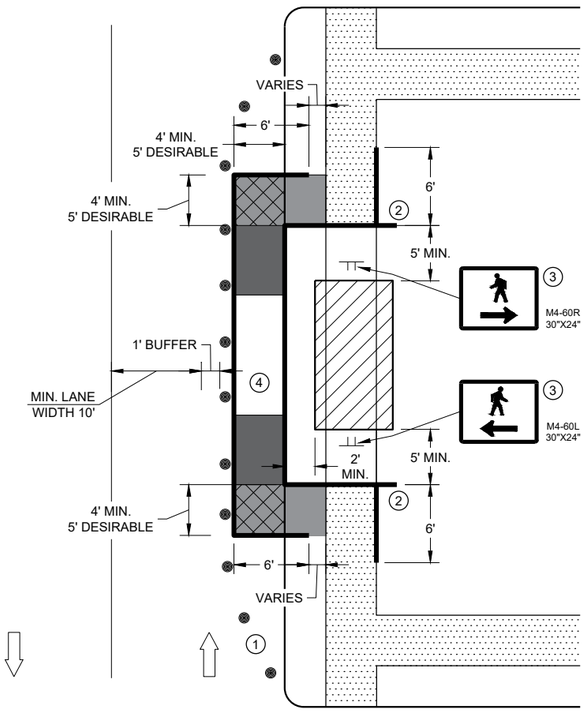
GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.
2. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.
4. USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.



SIDEWALK DIVERSION, SINGLE SIDE

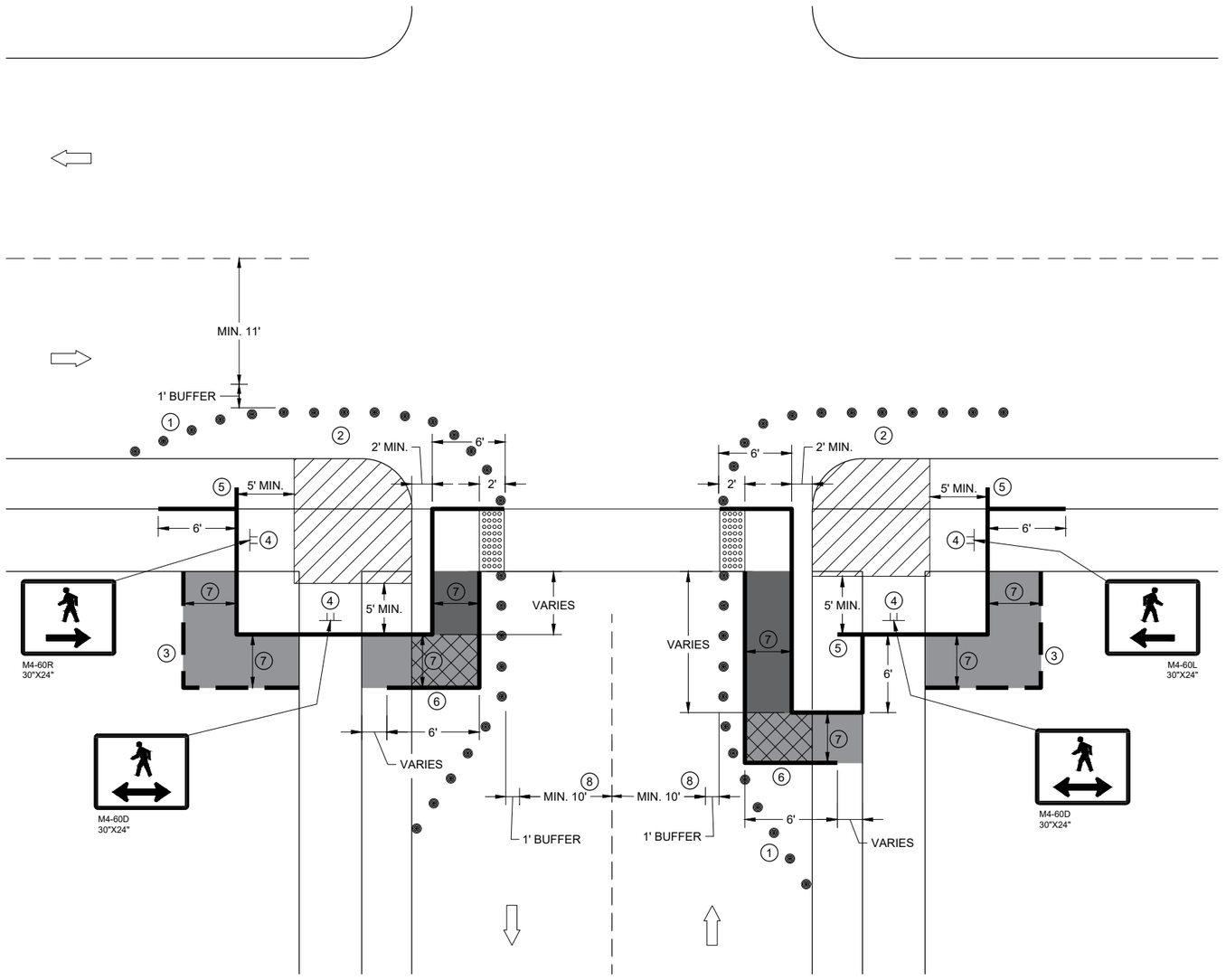
6

6

SDD 15D30 - 07h

SDD 15D30 - 07h

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

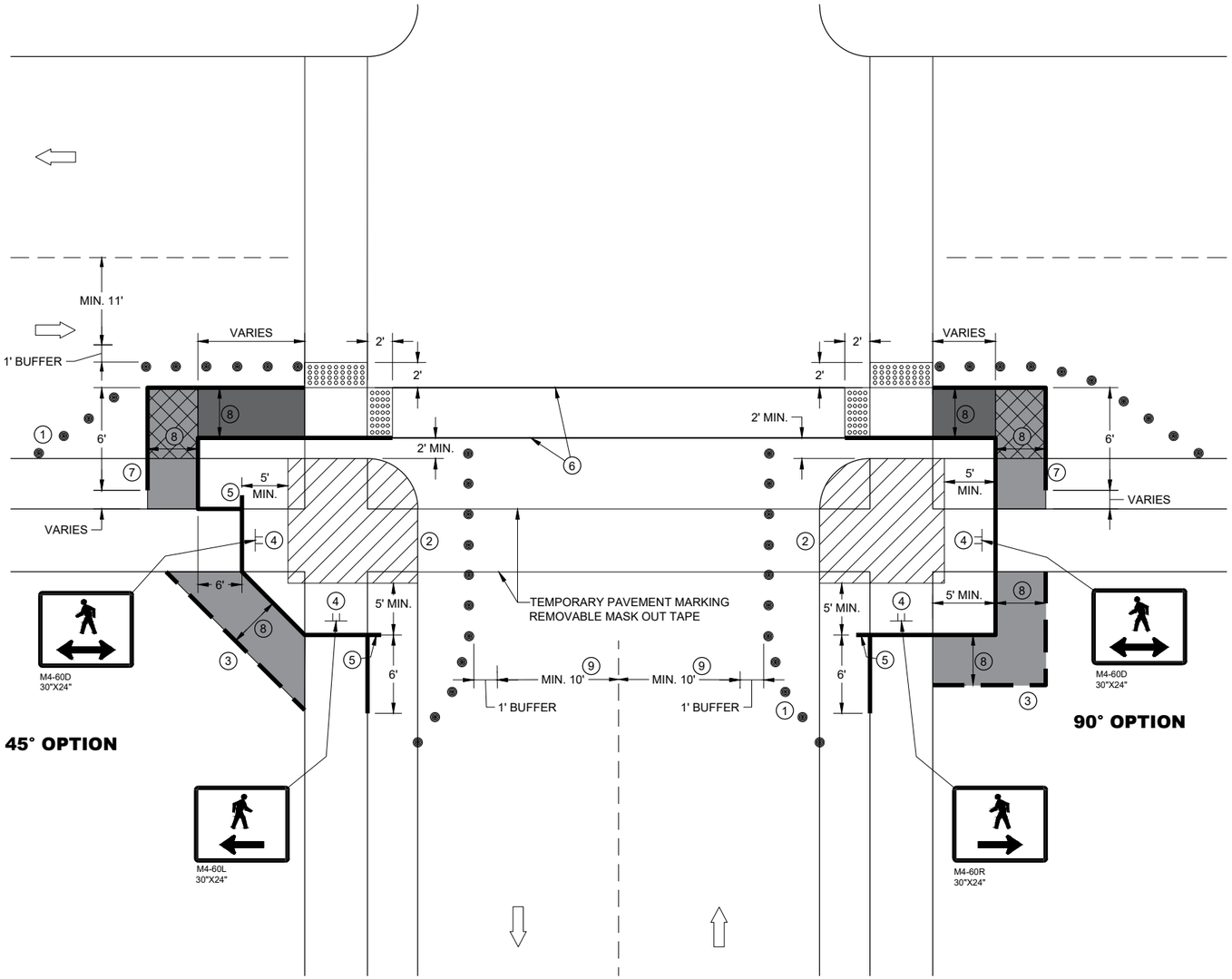
WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
7. 4 FEET MINIMUM, 5 FEET DESIRABLE
8. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION



CURB RAMP PEDESTRIAN TRAFFIC CONTROL

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. WHITE 6" TEMPORARY PAVEMENT MARKING
7. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
8. 4 FEET MINIMUM, 5 FEET DESIRABLE
9. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

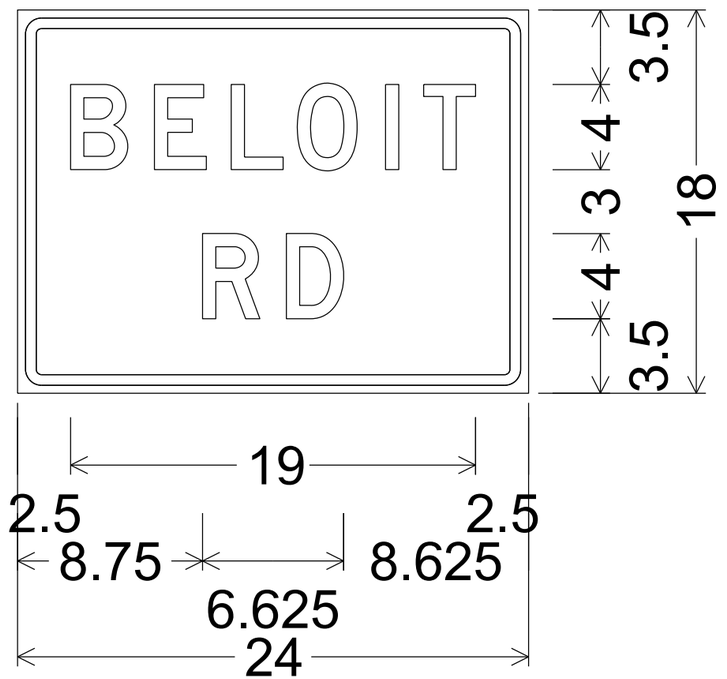
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

SDD 15D30 - 07j

6

NOTES

1. Fixed Message sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



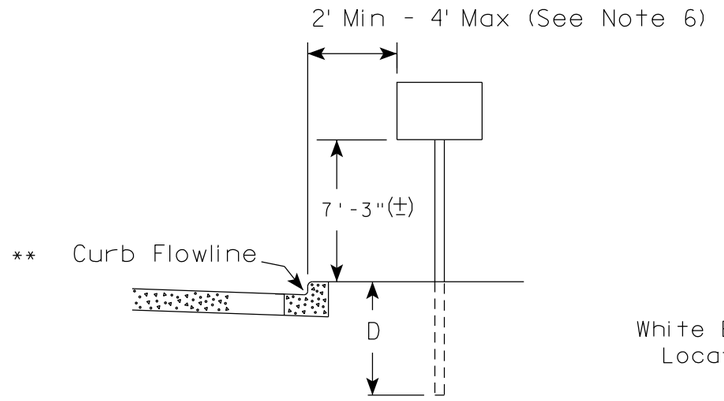
1.125" Radius, 0.500" Border, 0.375" Indent

7

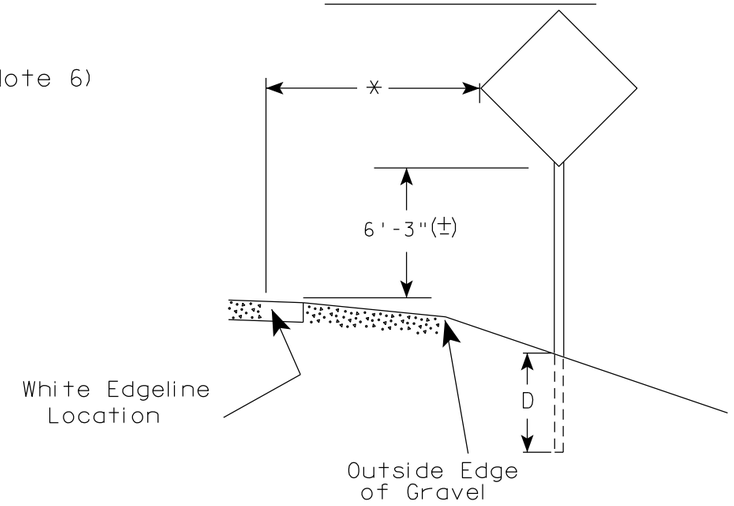
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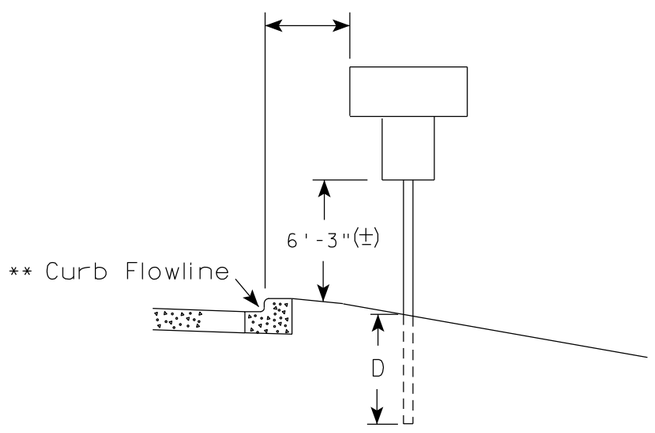
PROJECT NO: 2525-03-71	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	TEMPORARY SIGNING	SHEET NO: 258	E

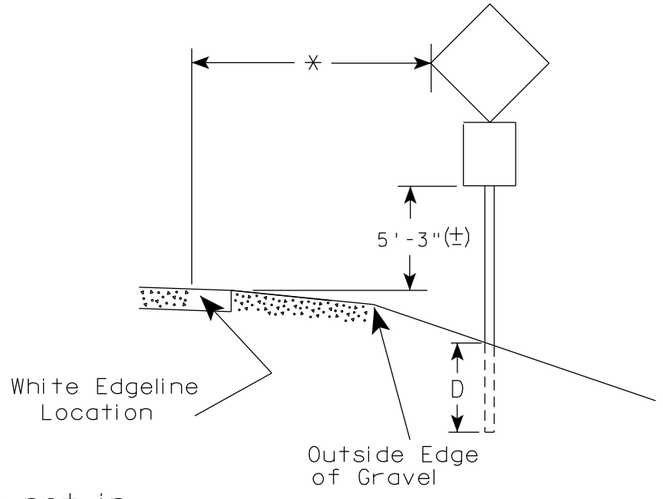
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

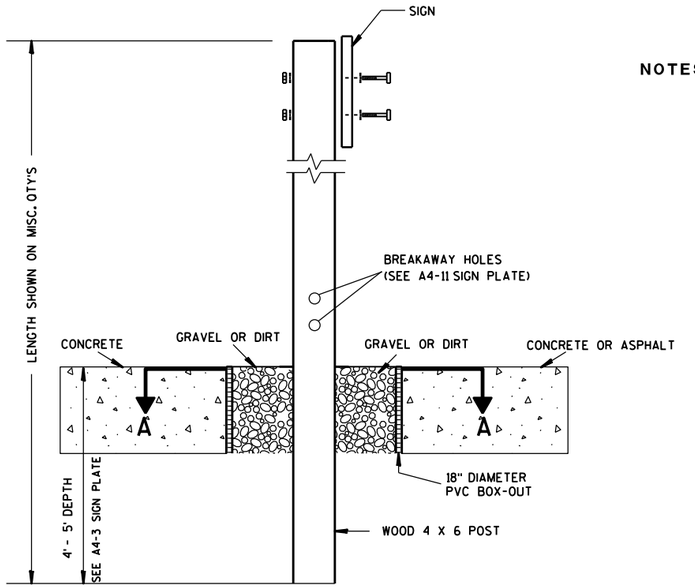
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

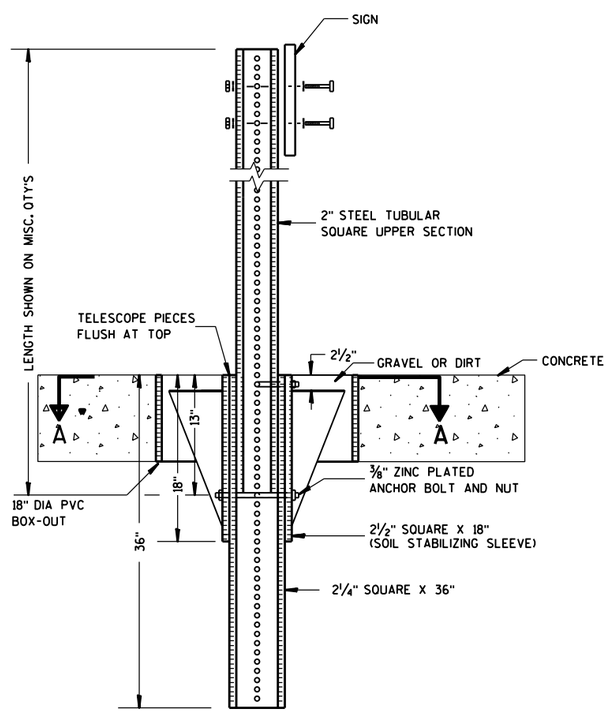
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 259	E



ELEVATION VIEW

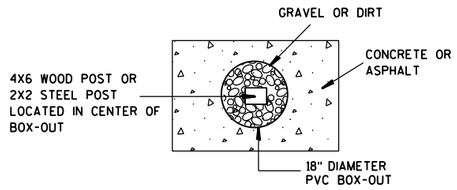
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

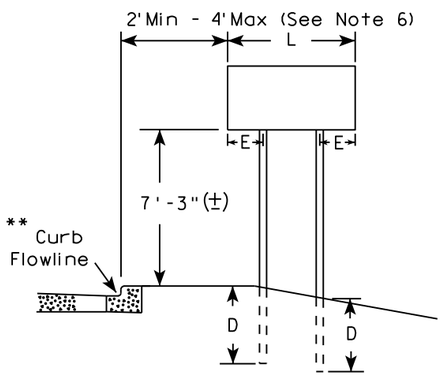
APPROVED Matthew R Rauch
for State Traffic Engineer

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

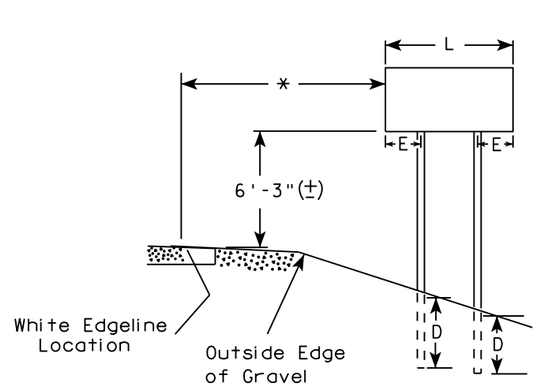
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

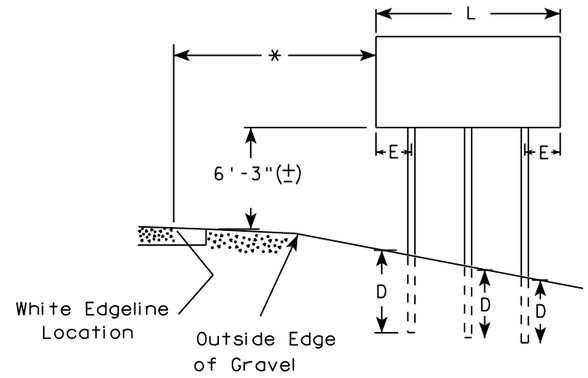
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

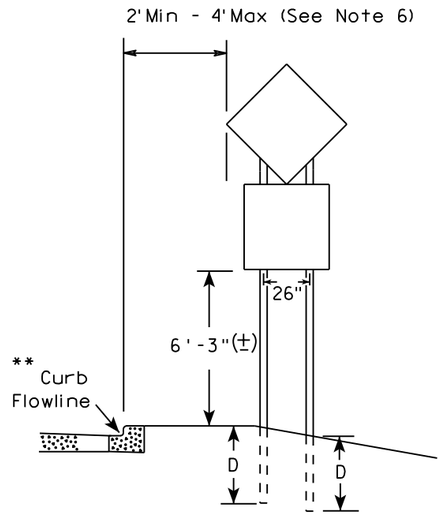
URBAN AREA



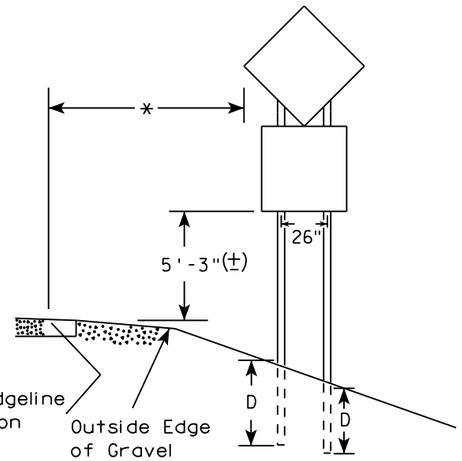
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

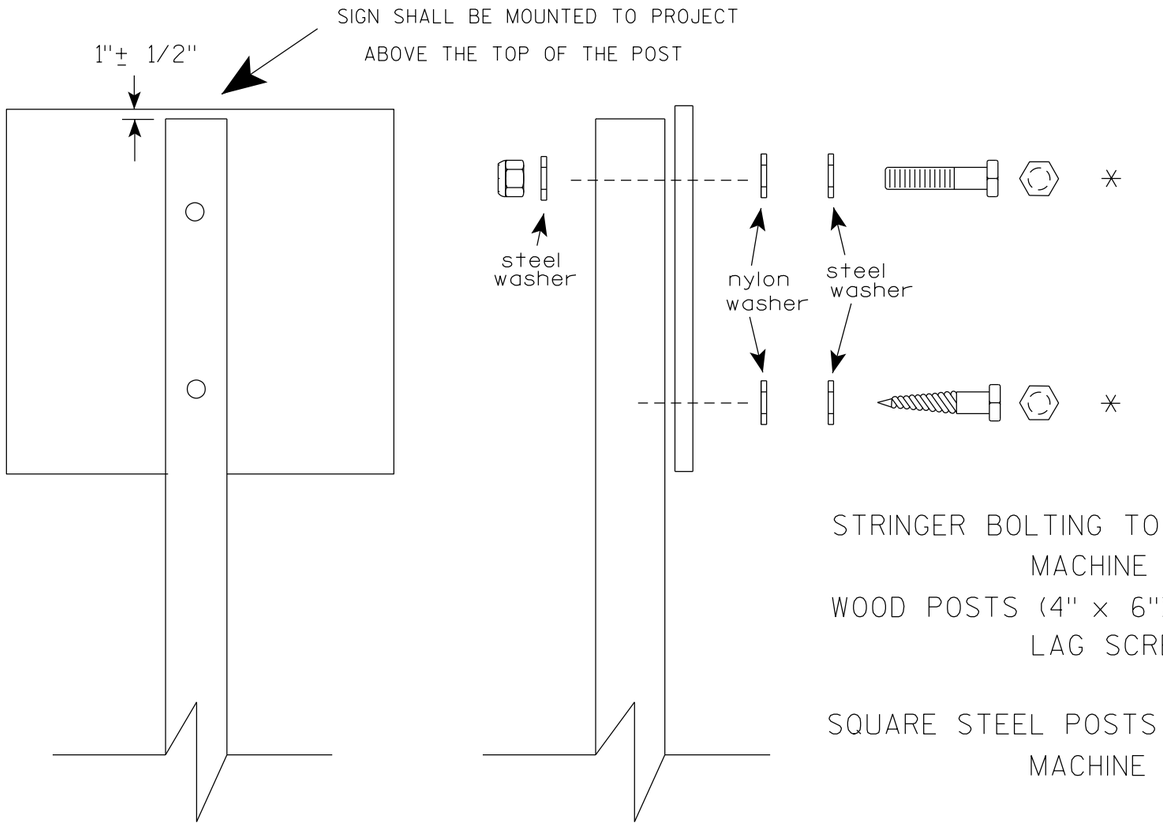
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

7

7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 261 | 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

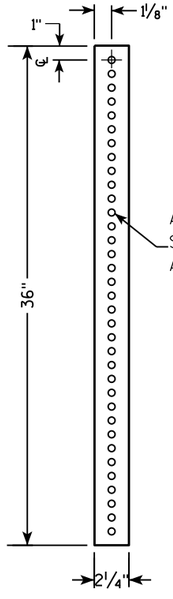
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

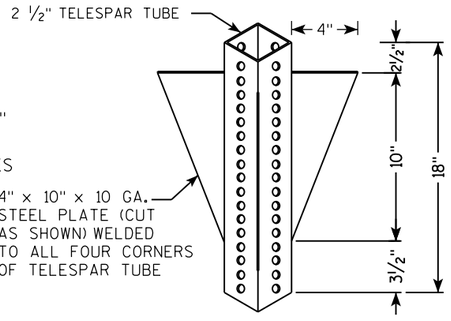
SHEET NO: 262 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

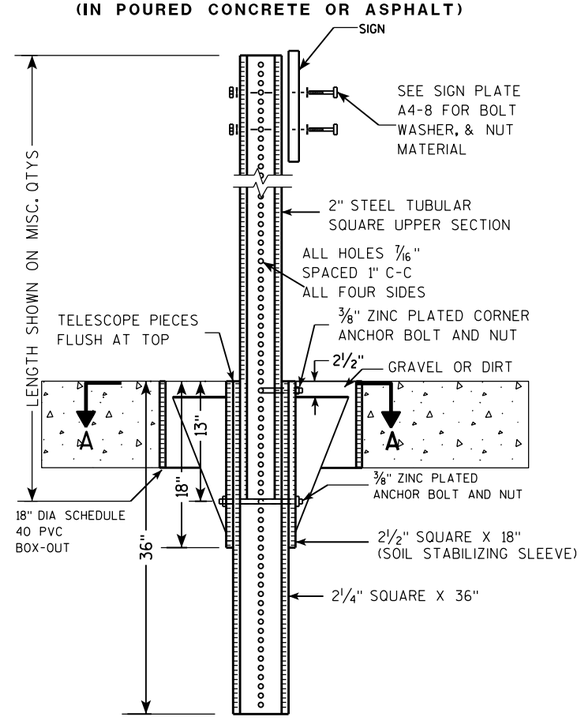
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



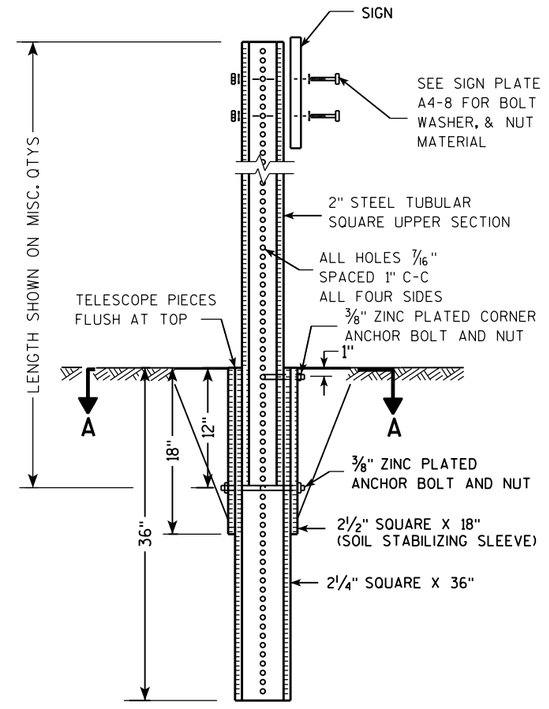
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

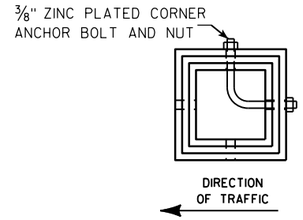


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

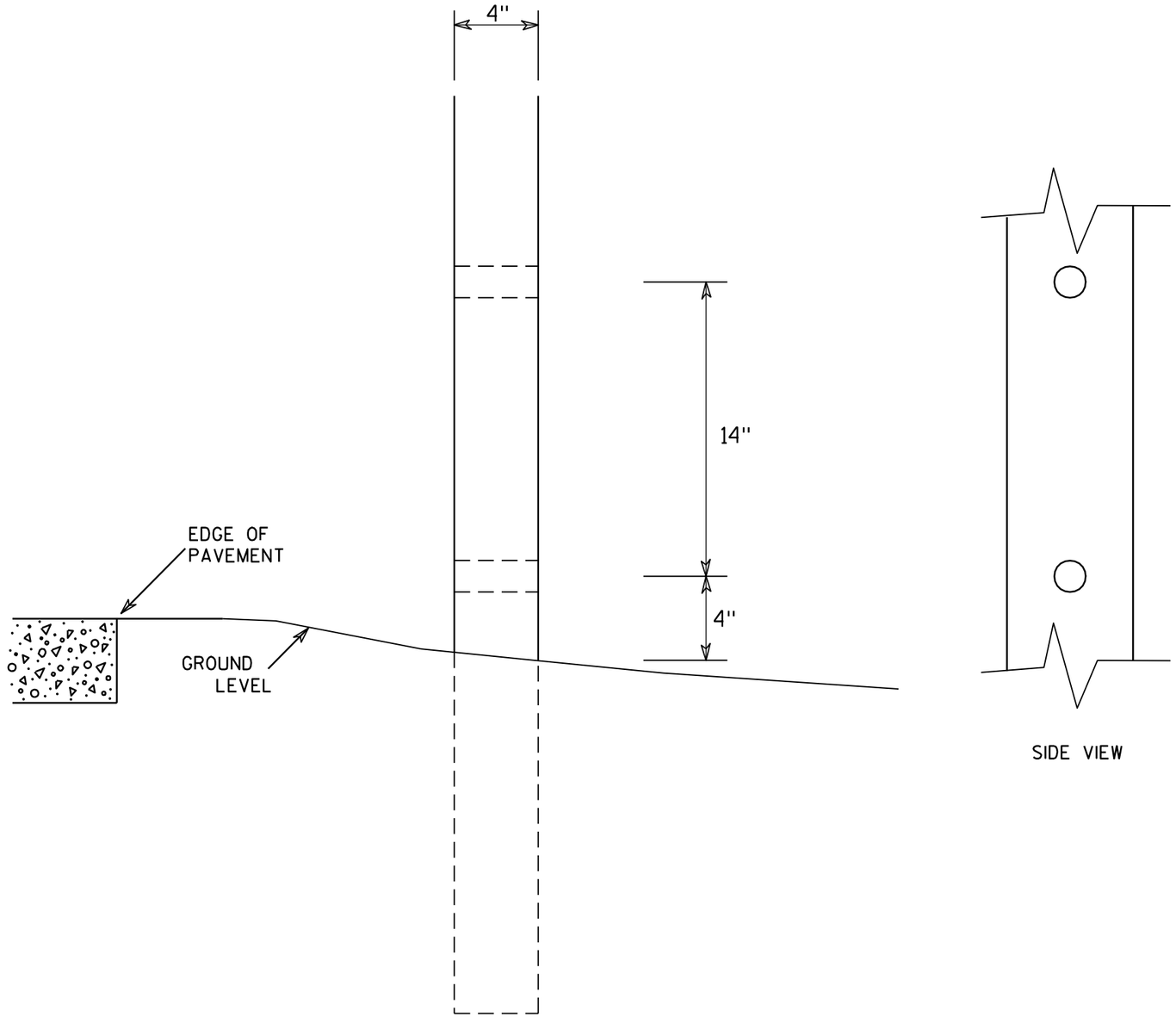
WISCONSIN DEPT OF TRANSPORTATION

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

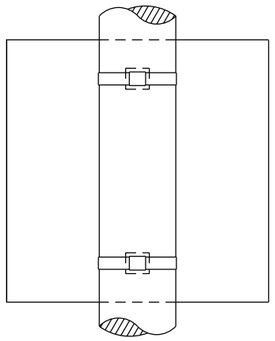
APPROVED Chester J Spang for State Traffic Engineer

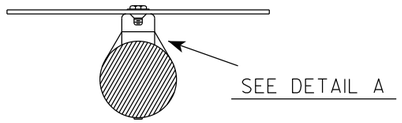
DATE 3/27/97 PLATE NO. A4-11.2

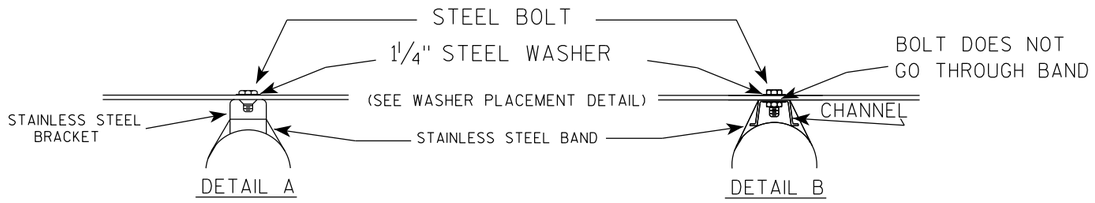
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 264	E

BANDING

SINGLE SIGN



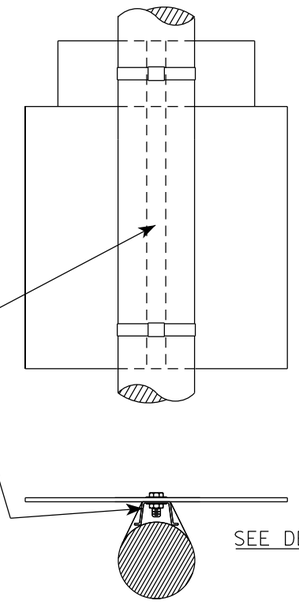




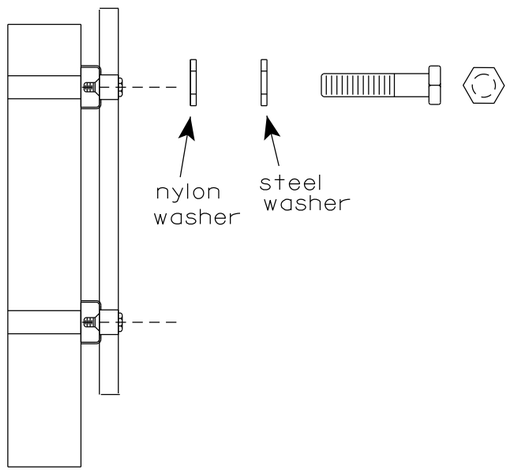
GENERAL NOTES

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

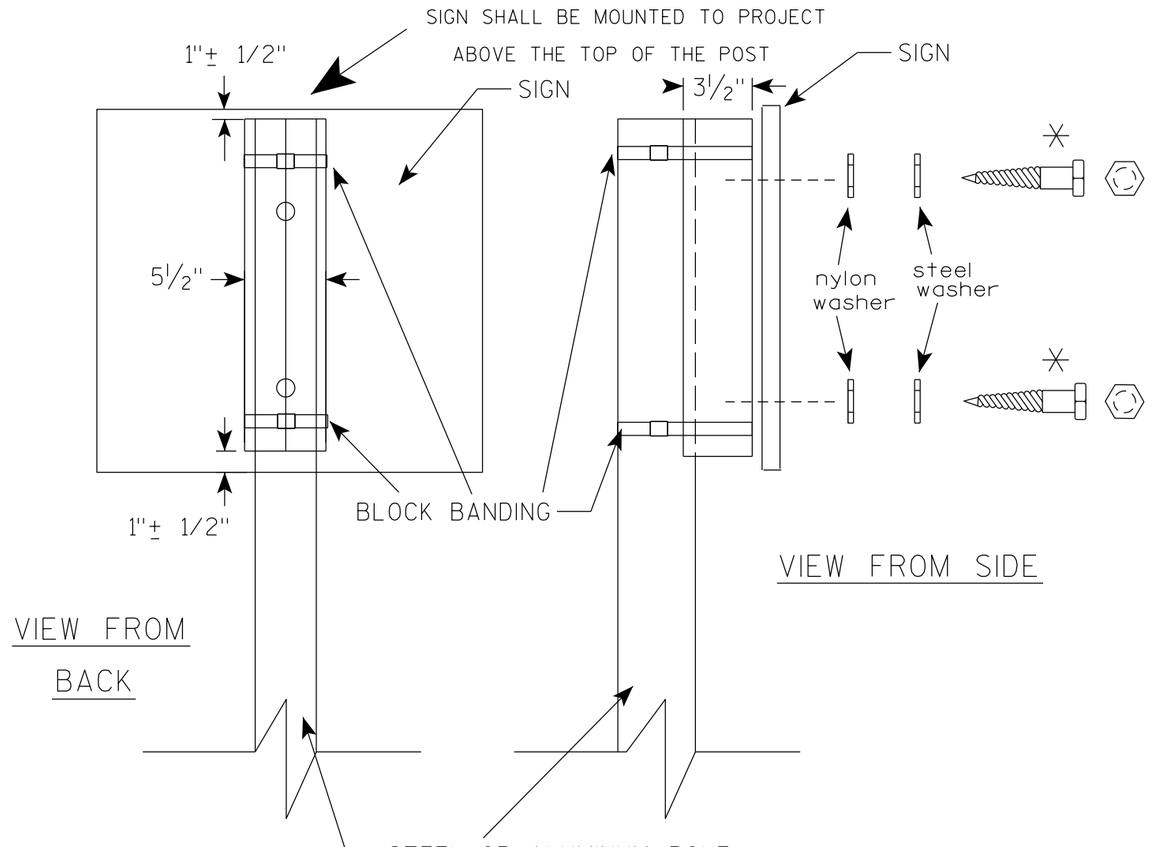
WISCONSIN DEPT OF TRANSPORTATION

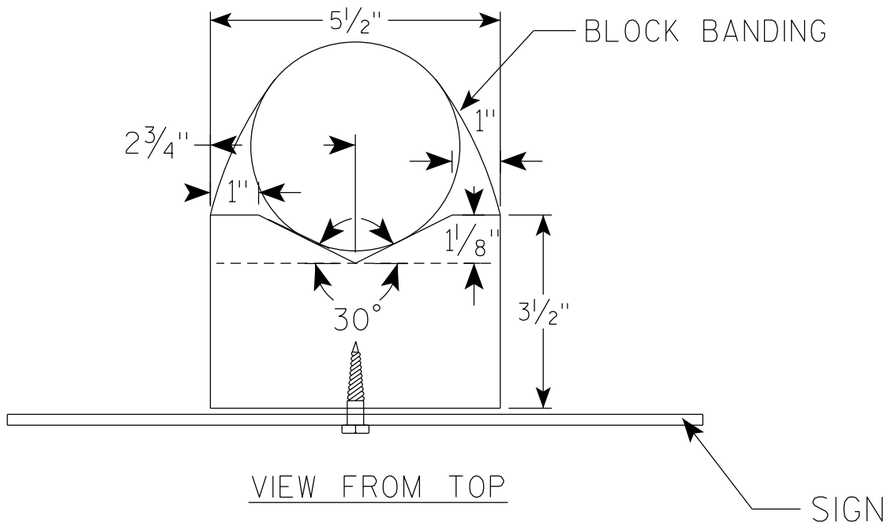
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 265	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)

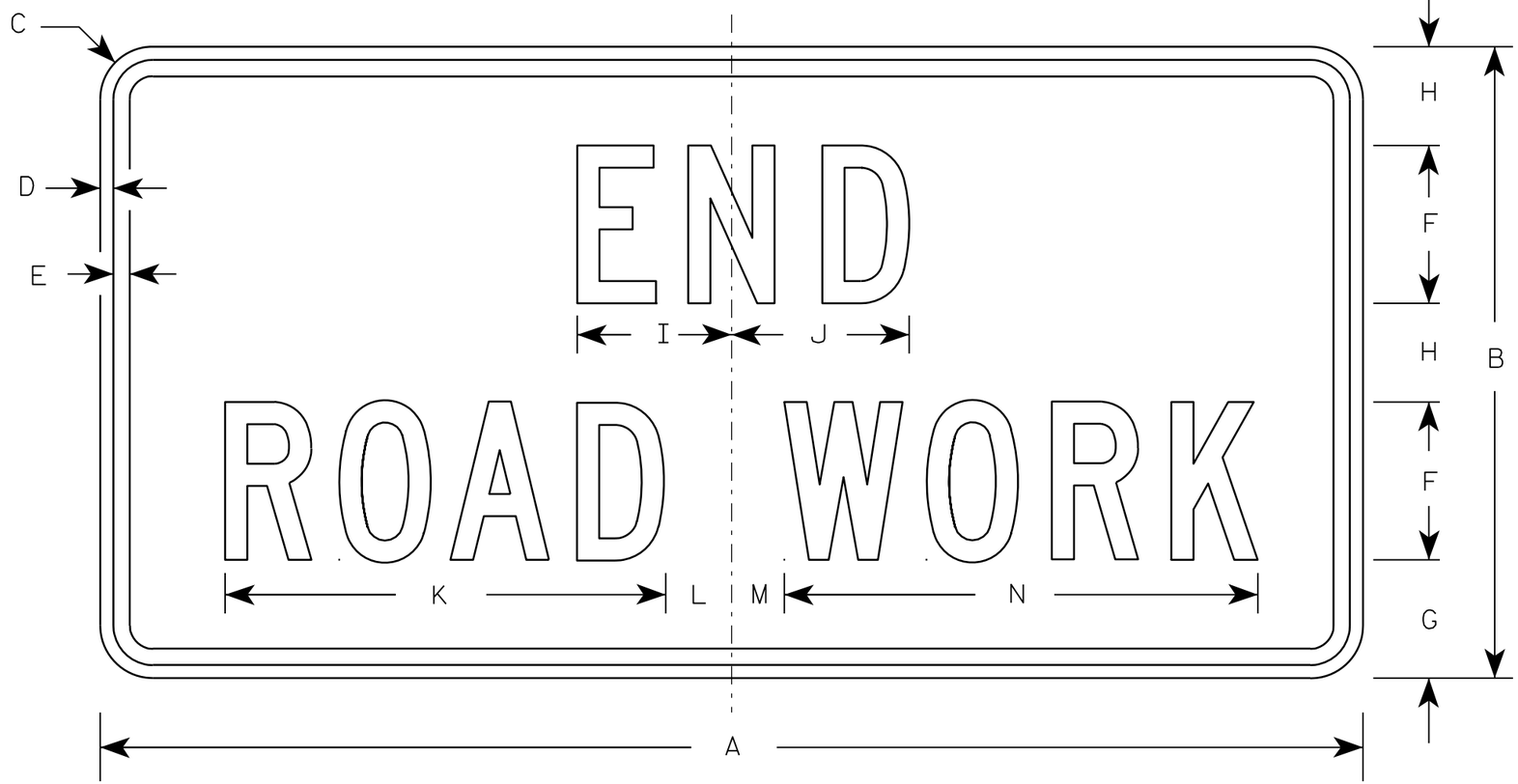
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 266 E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

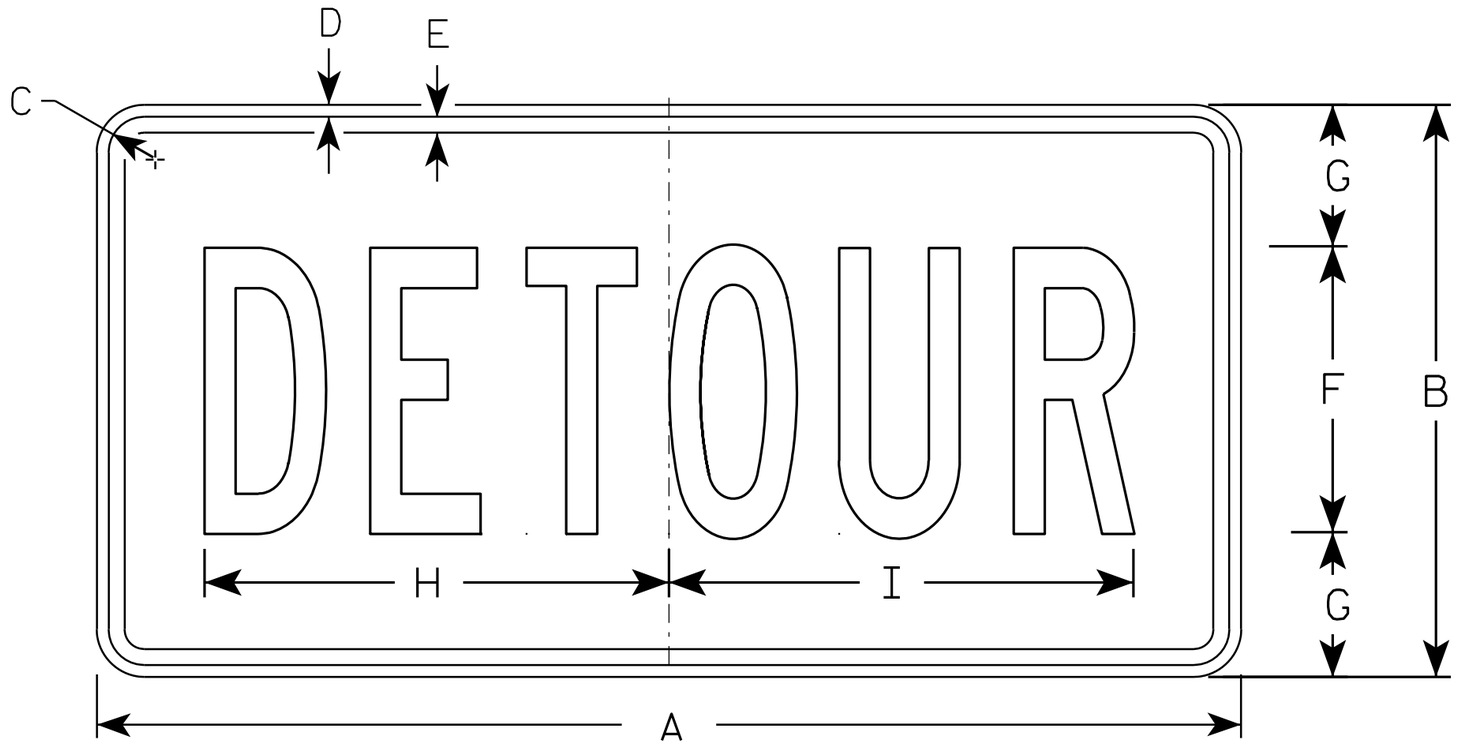
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 267	E



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - 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 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

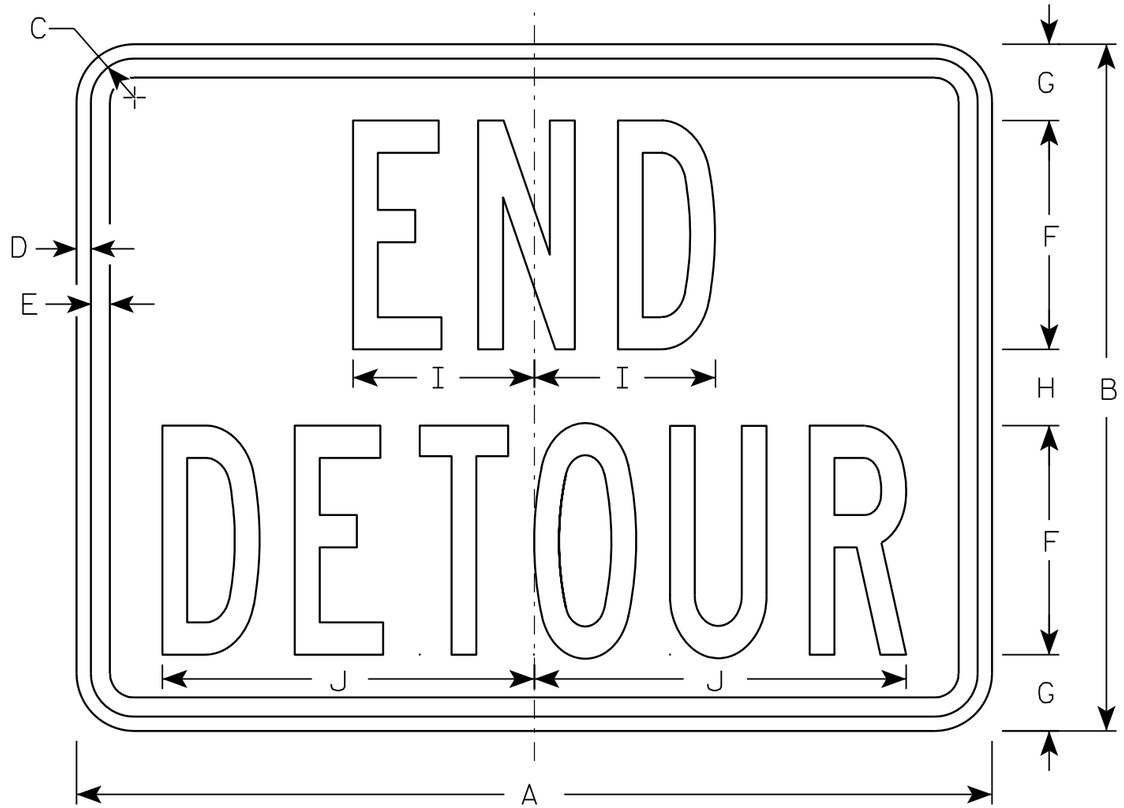
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 268	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - 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 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

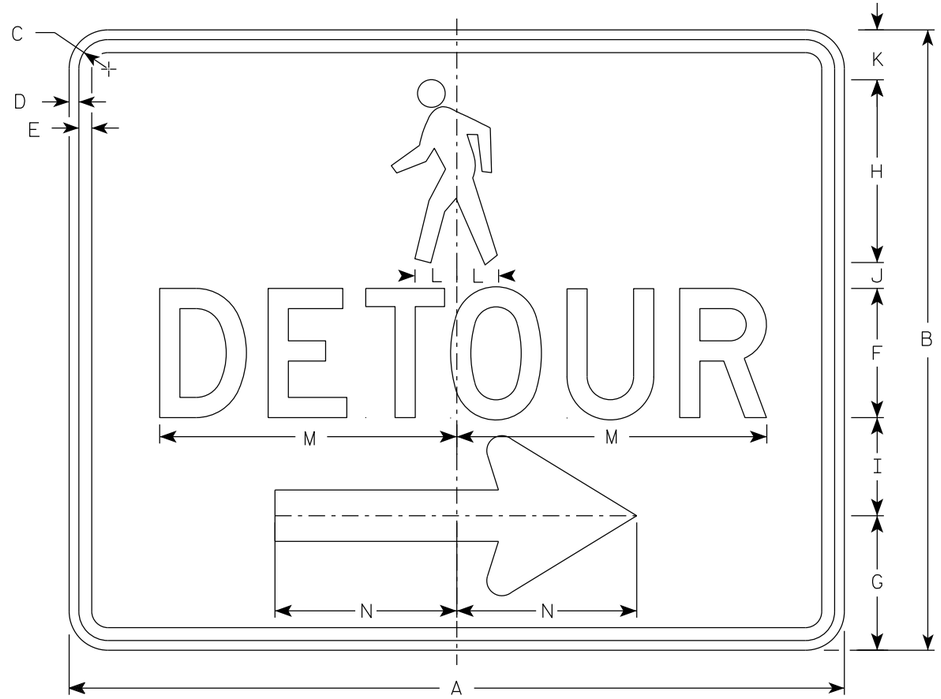
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

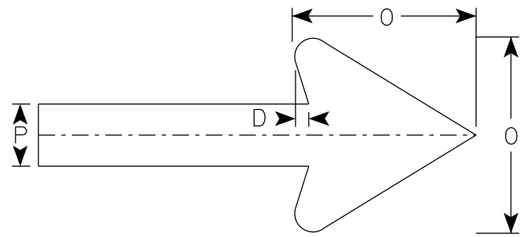
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 269	E



M4-9BR

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.
5. M4-9BL is the same as M4-9BR except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.00
3																											
4																											
5																											

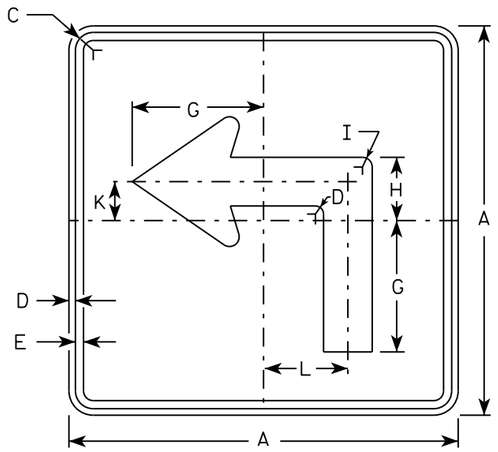
STANDARD SIGN
M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

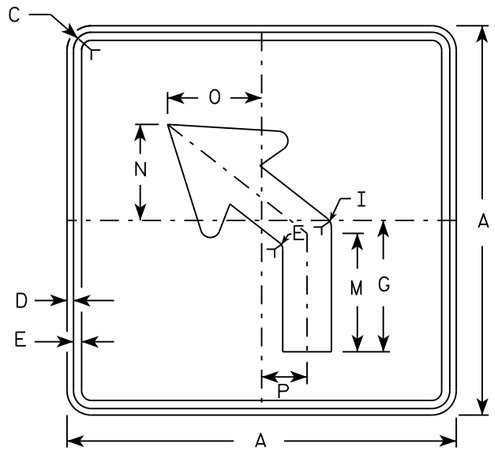
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/1/19 PLATE NO. M4-9B.2

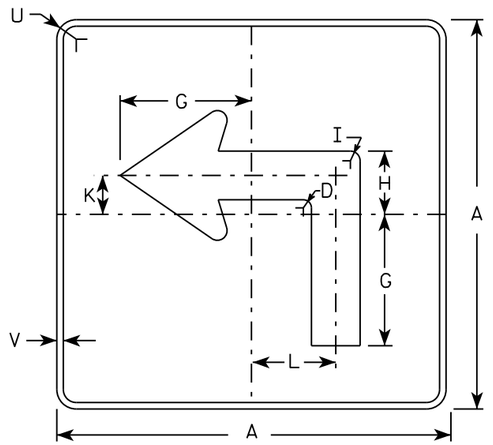
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 270 | E



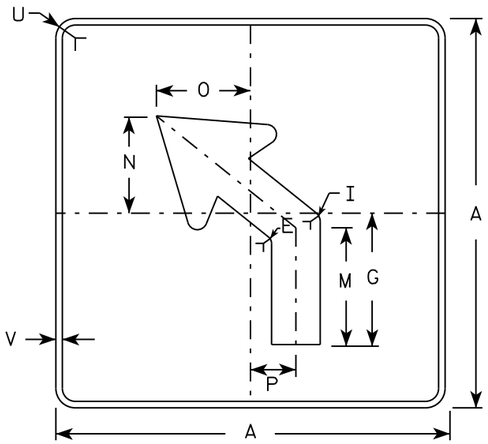
M5-1L
MM5-1L
MO5-1L
MP5-1L



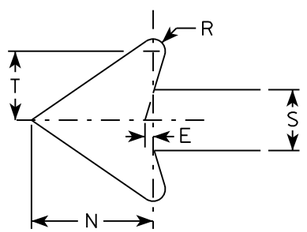
M5-2L
MM5-2L
MO5-2L
MP5-2L



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 - Type H Reflective
   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.

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

STANDARD SIGN
M5-1 & M5-2

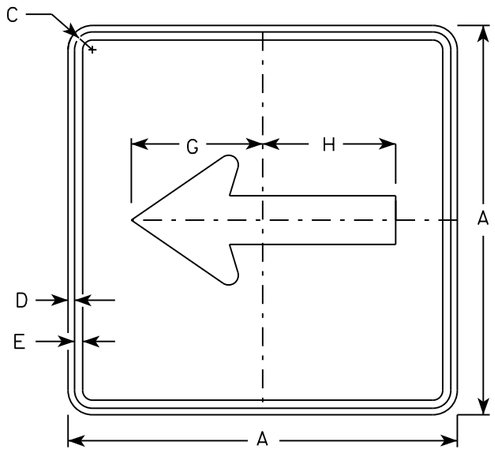
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

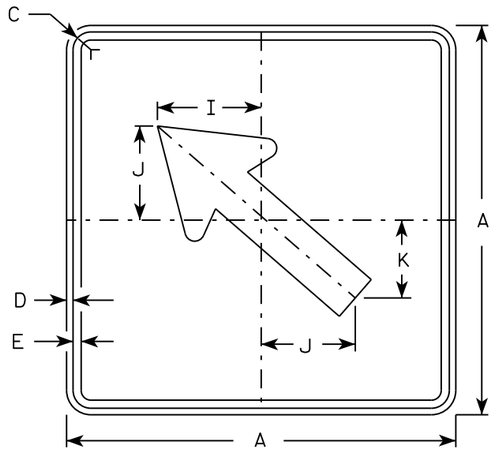
DATE 10/15/15 PLATE NO. M5-1.13

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



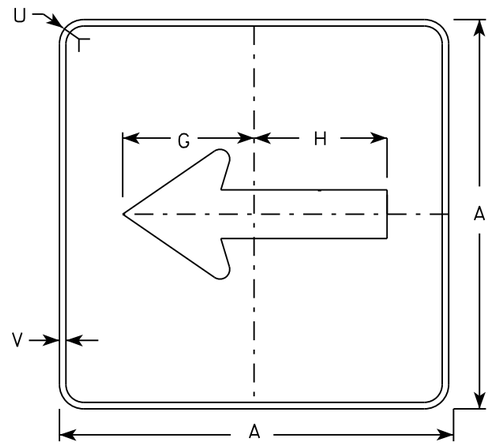
M6-1
MM6-1
MO6-1
MP6-1



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

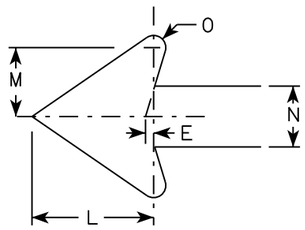
NOTES

1. Signs are Type II - Type H 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



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

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



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

STANDARD SIGN
M6-1 & M6-2
SERIES

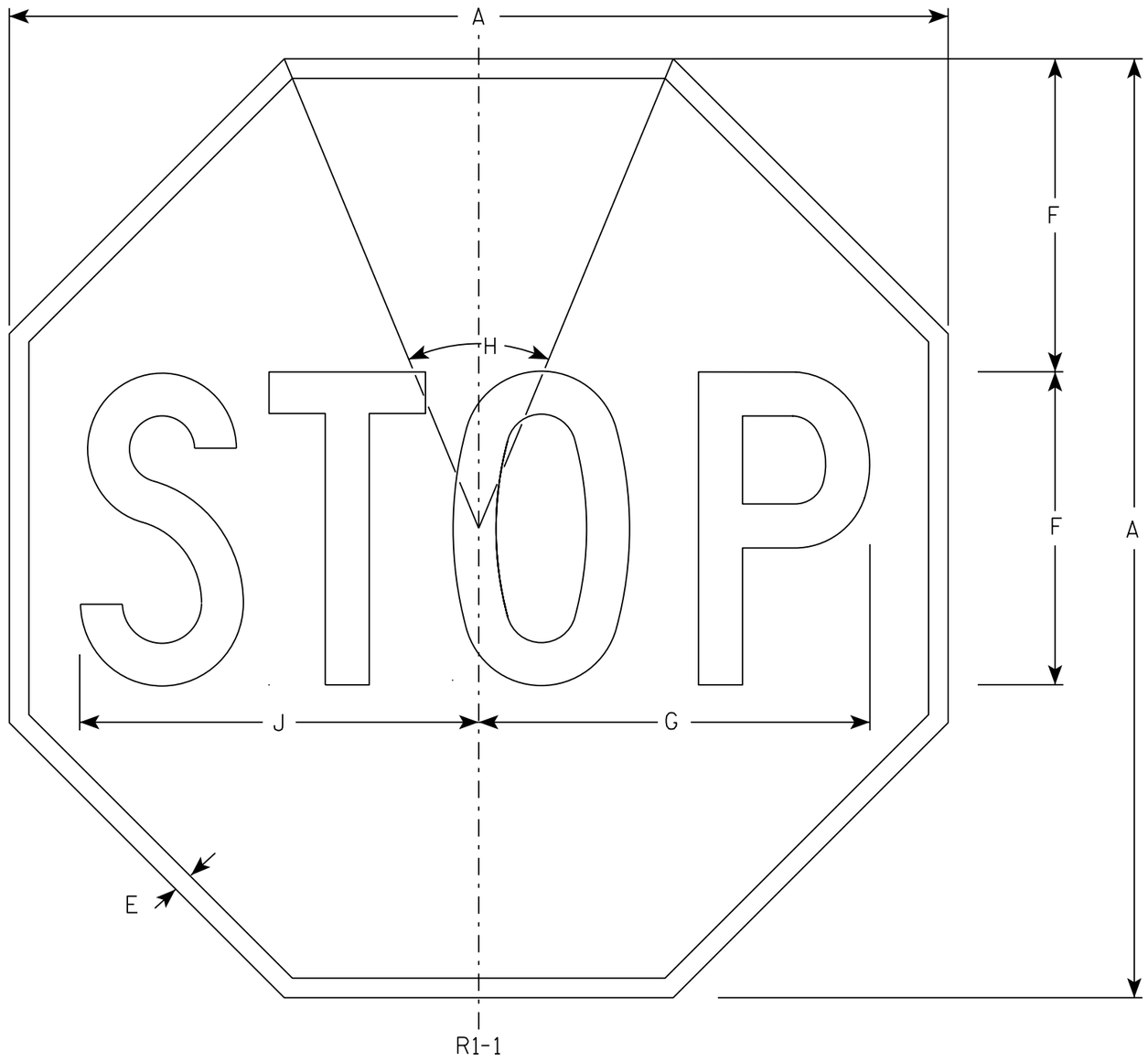
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATI 272 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

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				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

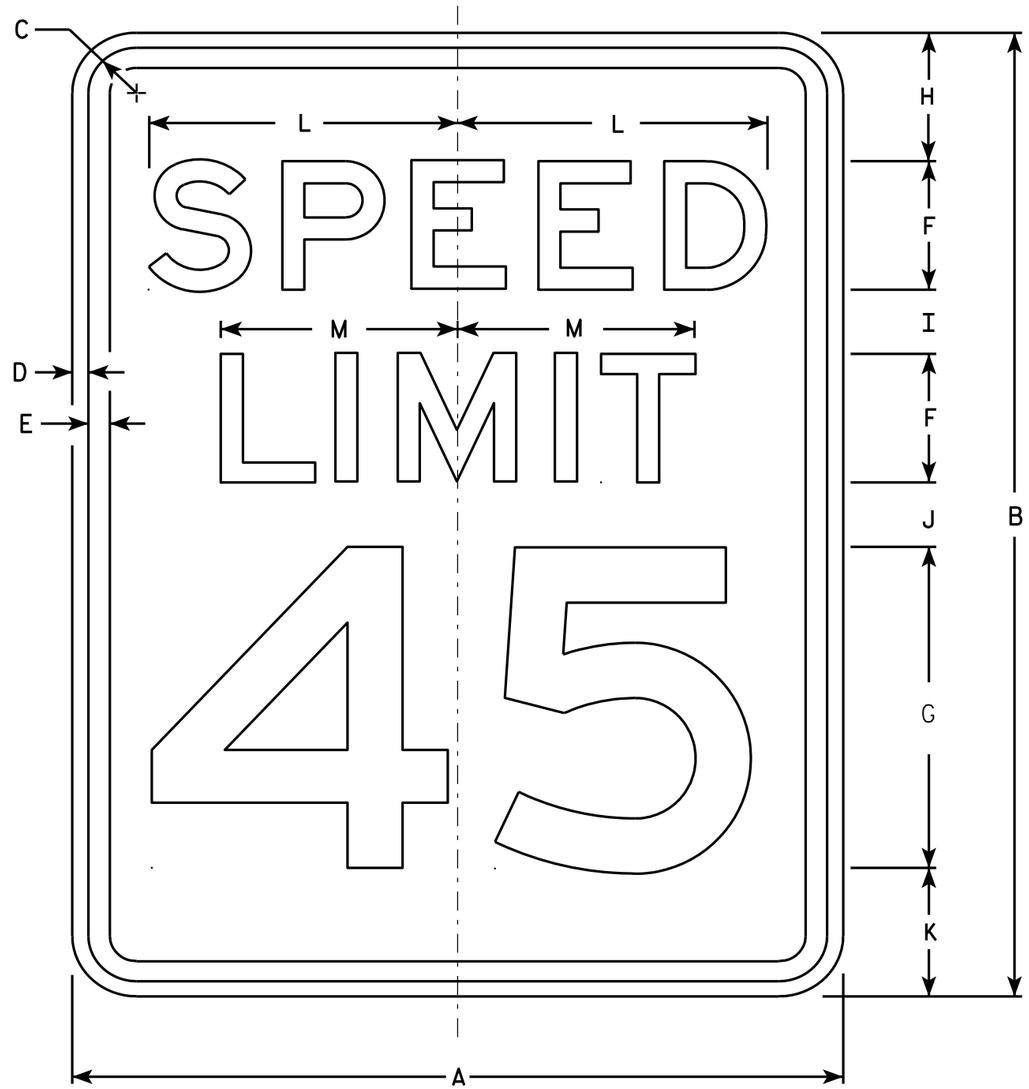
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 273	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. 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	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

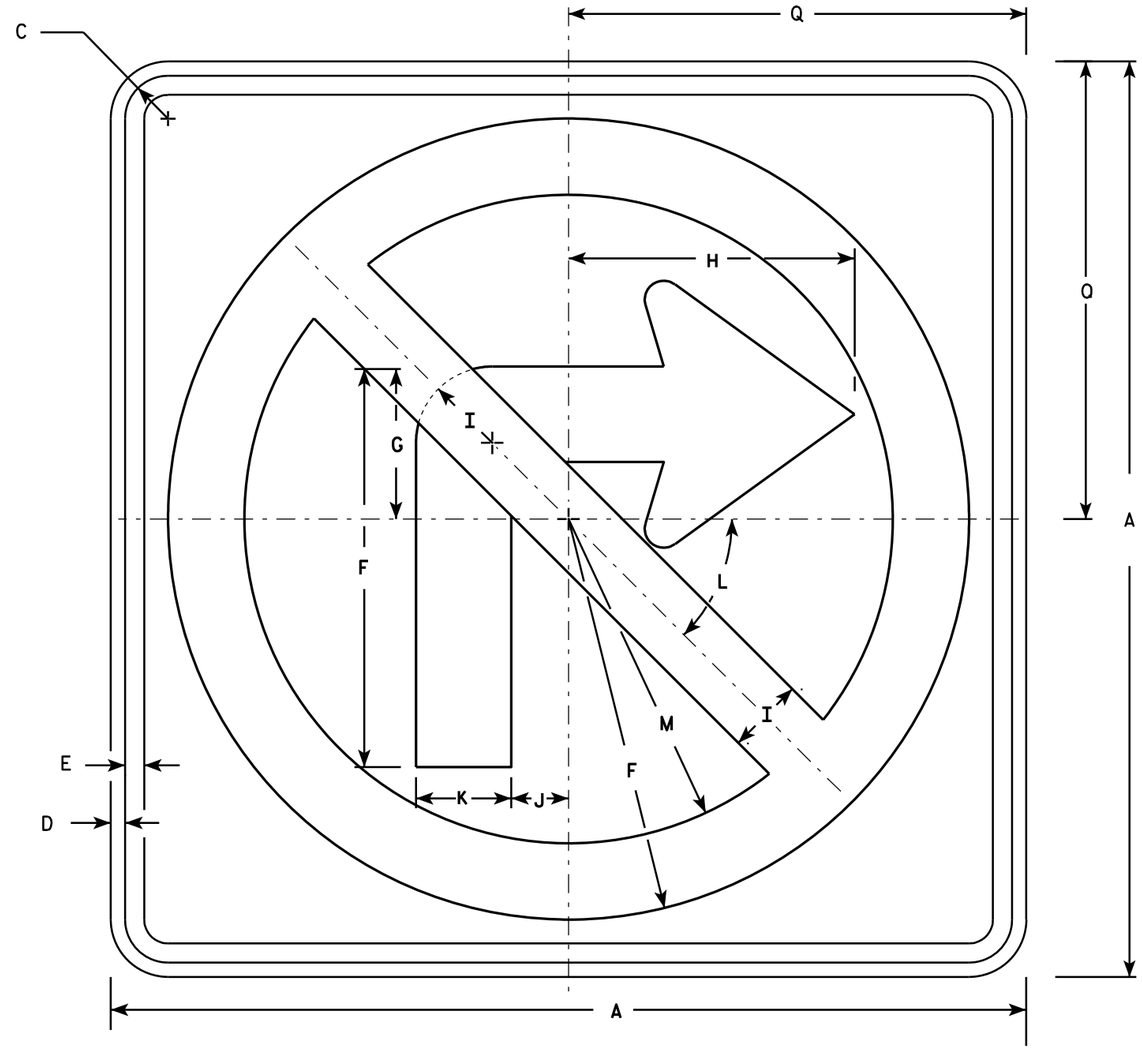
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

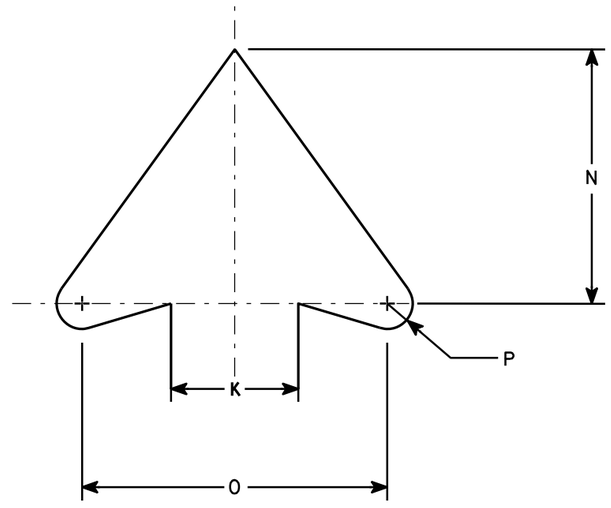
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 274 | E



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

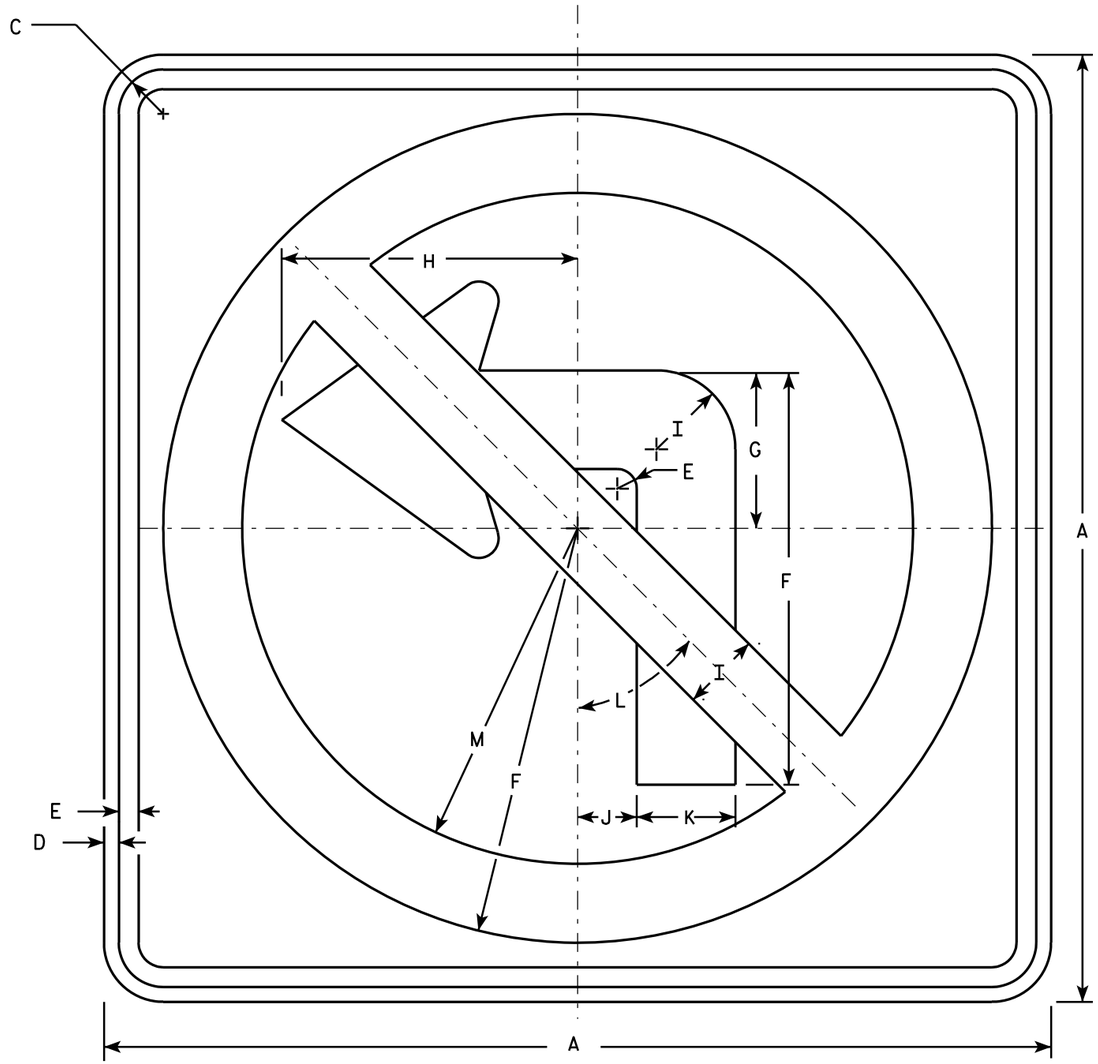
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

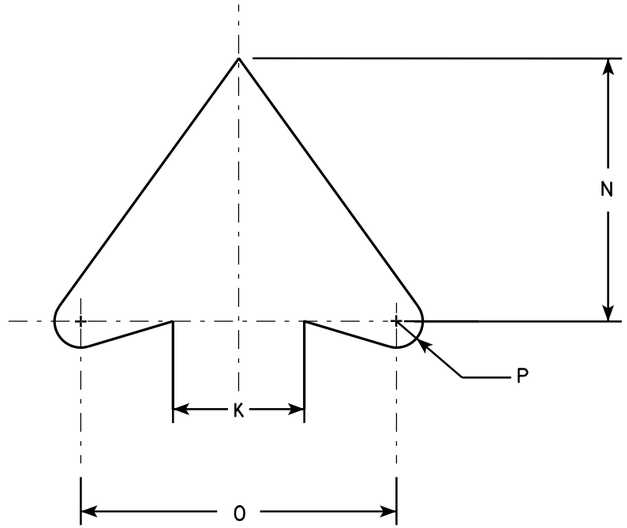
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 275	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

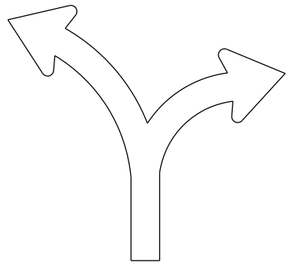
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 276	E

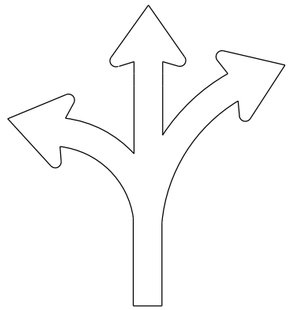


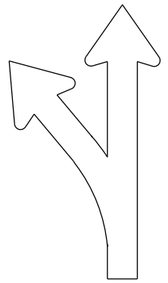
(A)

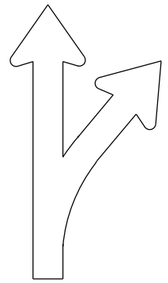


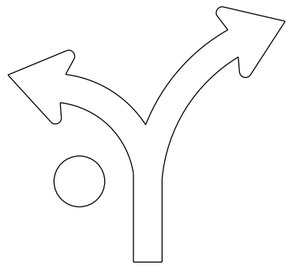
(B)

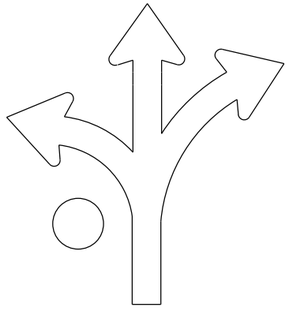

(C)

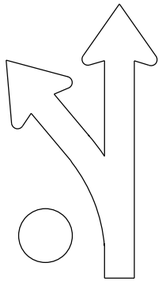

(D)


(E)


(F)

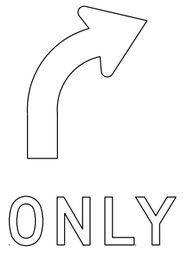

(G)


(H)

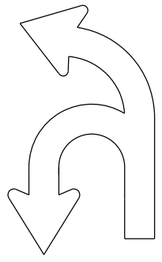

(I)



(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1	Letter =	3.75 sq ft for Size 2
		6.0 sq ft for Size 3
		10.0 sq ft for Size 4 or 5
2	Letters =	7.5 sq ft for Size 2
		12.0 sq ft for Size 3
		20.0 sq ft for Size 4 or 5
3	Letters =	11.25 sq ft for Size 2
		18.0 sq ft for Size 3
		30.0 sq ft for Size 4 or 5
4	Letters =	15.0 sq ft for Size 2
		24.0 sq ft for Size 3
		40.0 sq ft for Size 4 or 5
5	Letters =	18.75 sq ft for Size 2
		30.0 sq ft for Size 3
		50.0 sq ft for Size 4 or 5
6	Letters =	22.5 sq ft for Size 2
		36.0 sq ft for Size 3
		60.0 sq ft for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

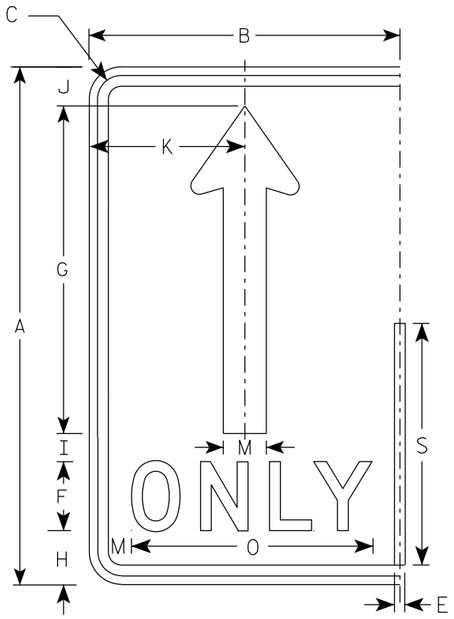
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

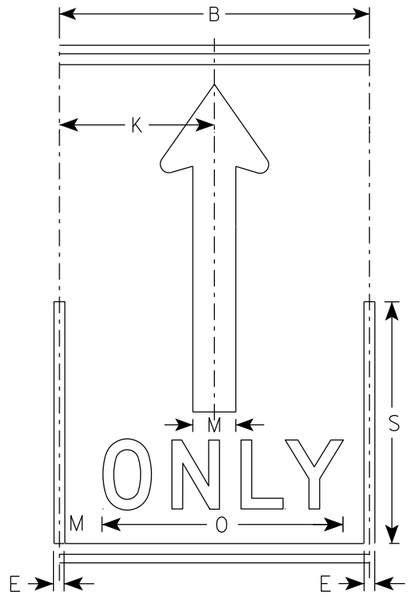
DATE 5/21/19 PLATE NO. R3-8.1

NOTES

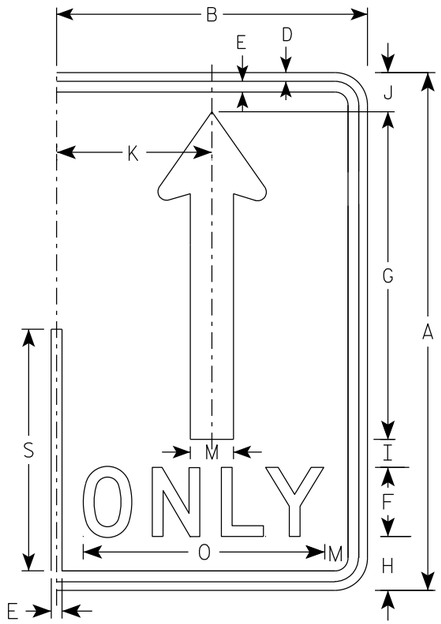
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



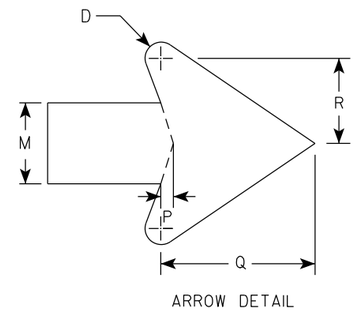
(A)



(A)



(A)



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	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

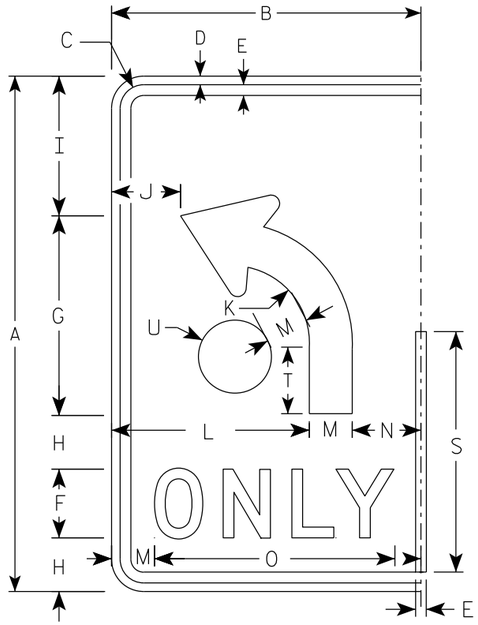
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

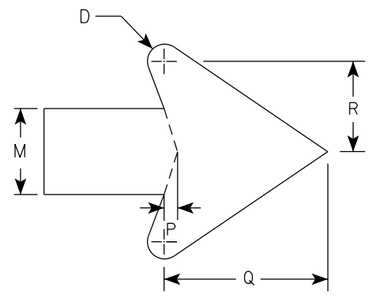
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 278 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



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	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

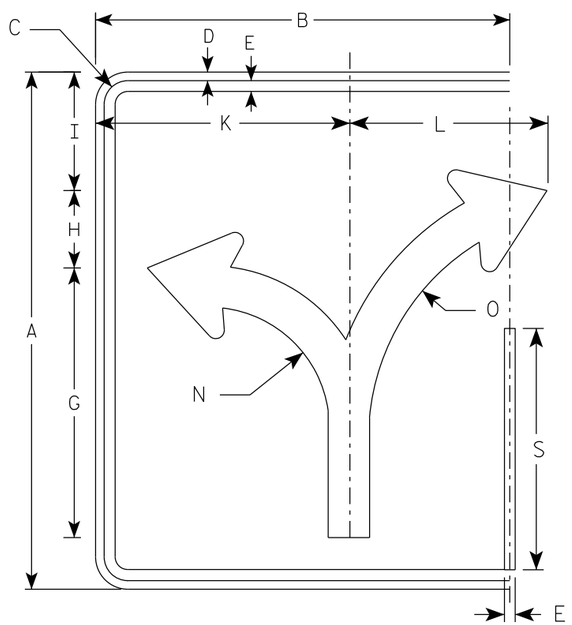
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

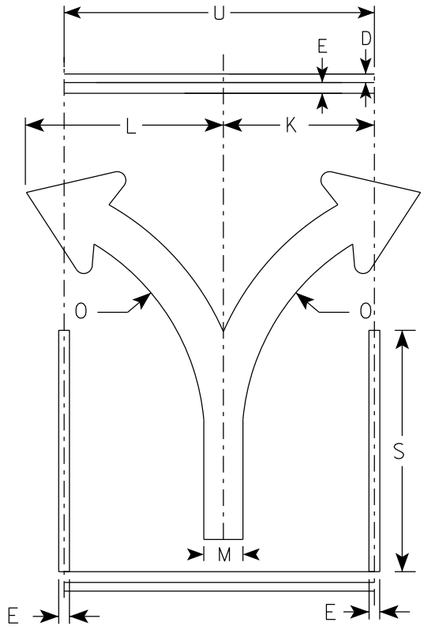
SHEET NO: 279 E

NOTES

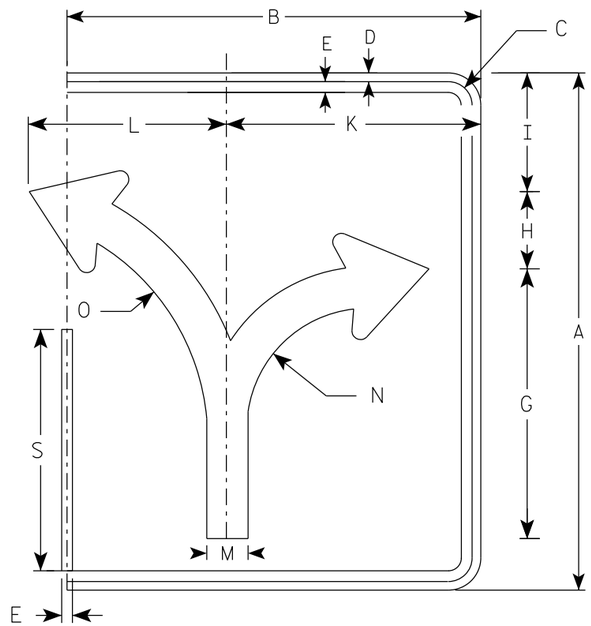
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



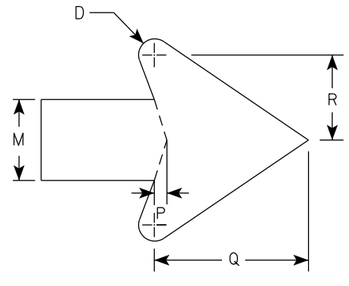
(C)



(C)



(C)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

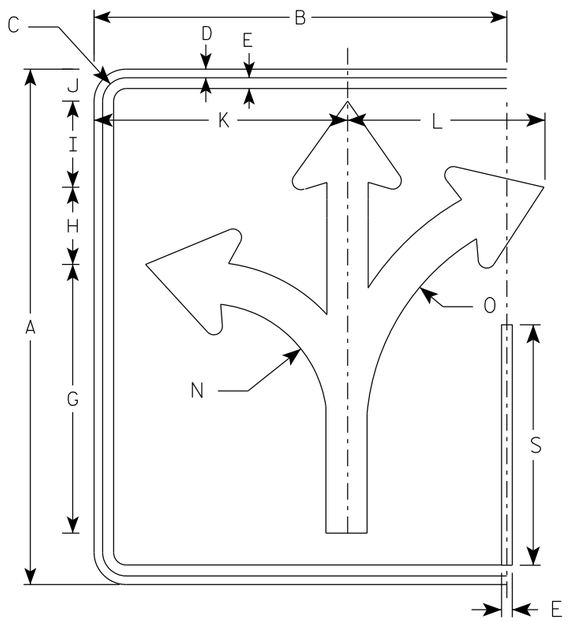
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 280 | E

7

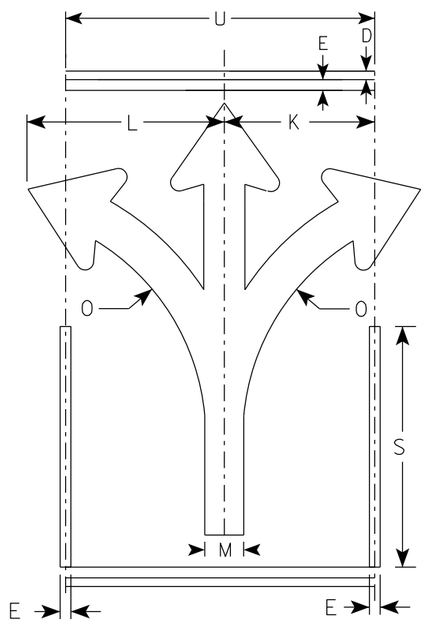
7

NOTES

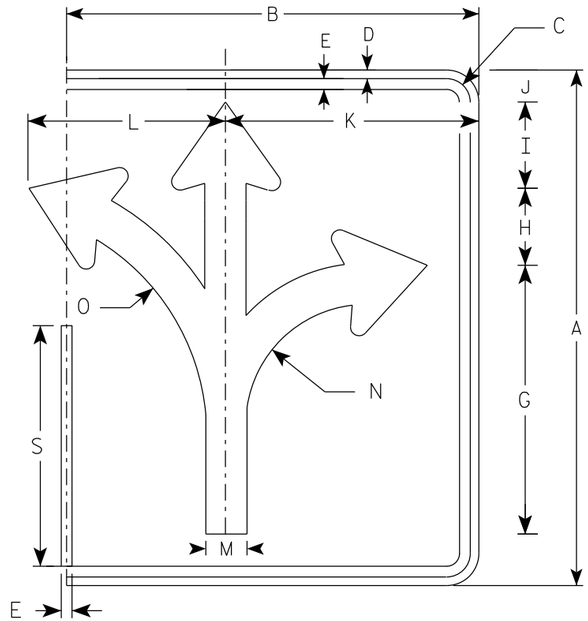
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



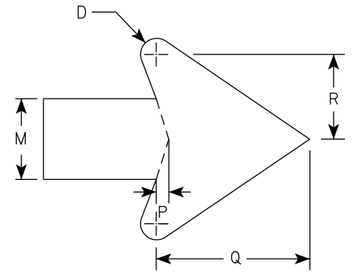
(D)



(D)



(D)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

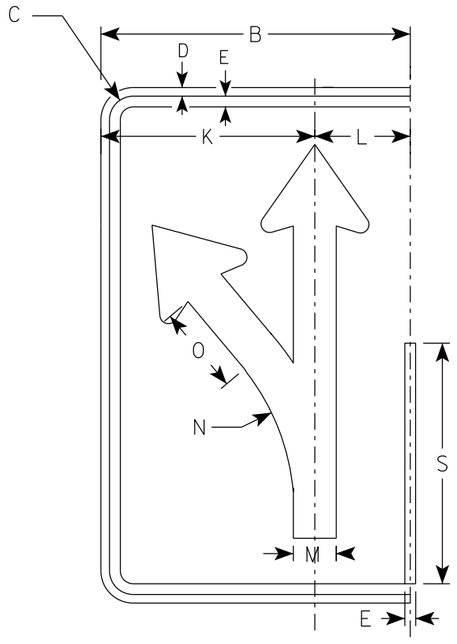
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 281 | E

7

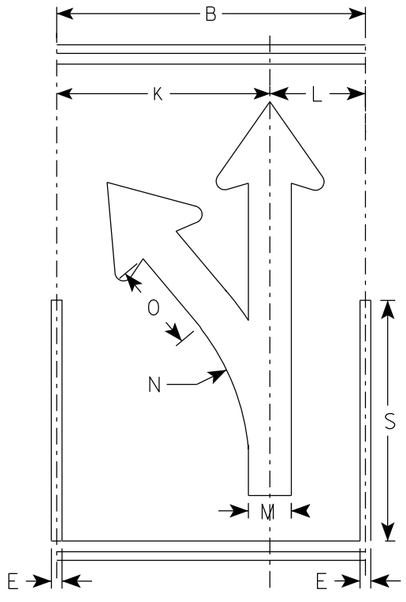
7

NOTES

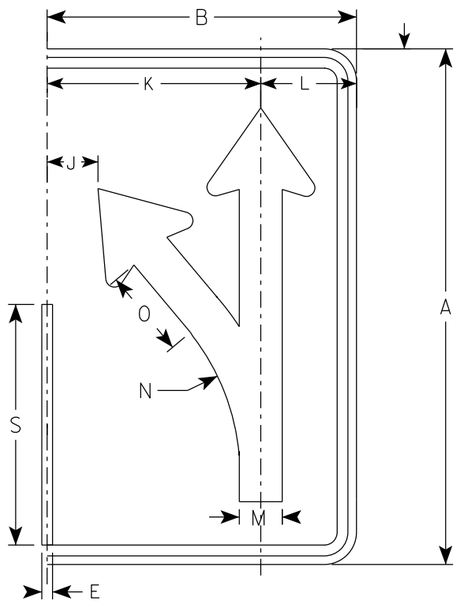
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



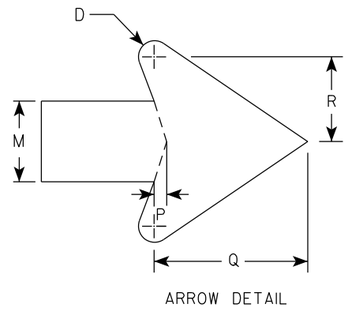
(E)



(E)



(E)



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	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

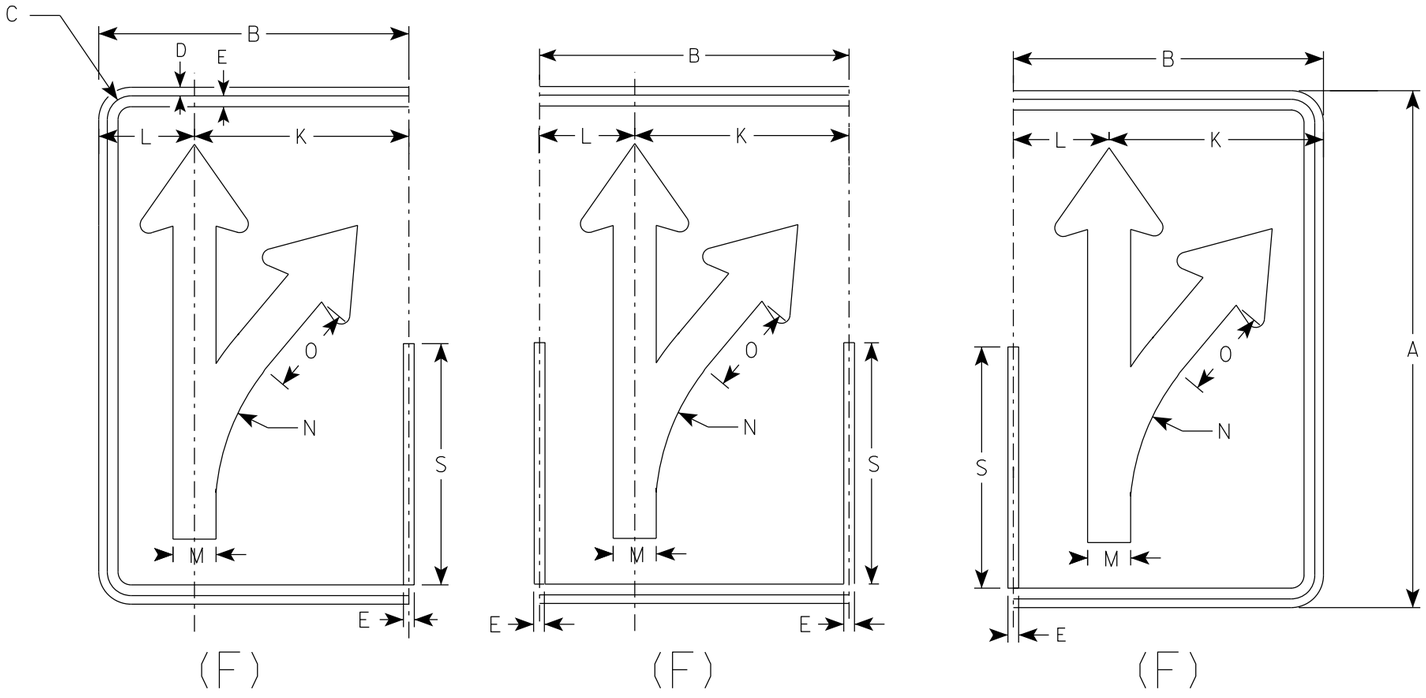
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

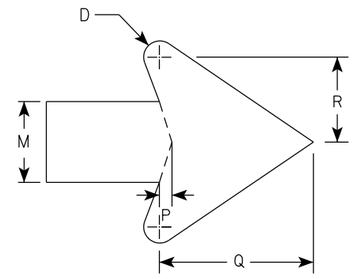
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 282 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(F) (F) (F)



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	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

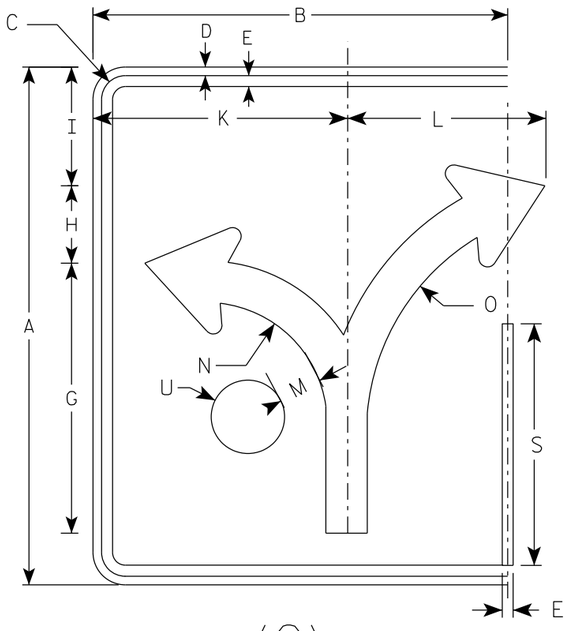
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

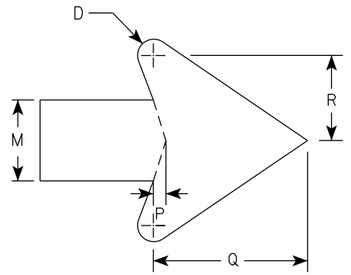
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 283 E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



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	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

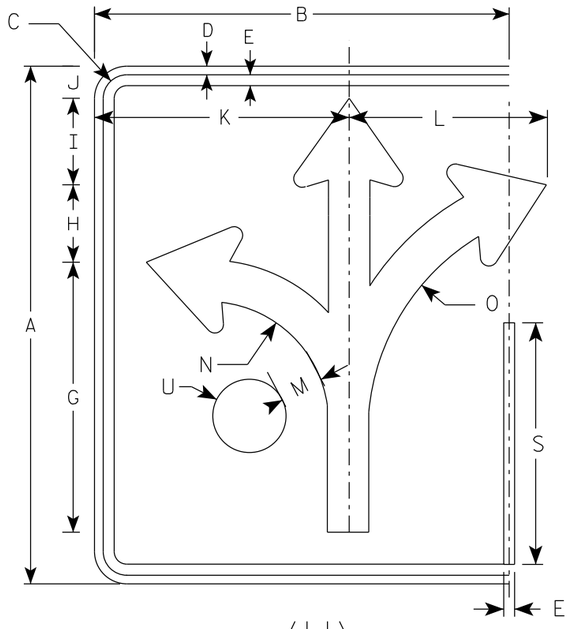
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 284 | E

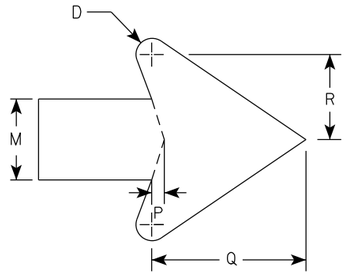
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:38 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



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	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

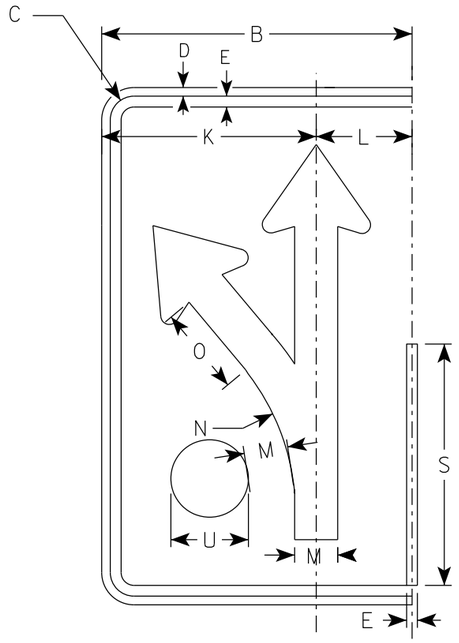
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

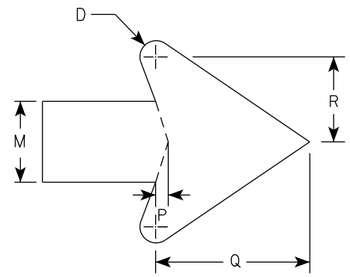
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 285	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



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	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

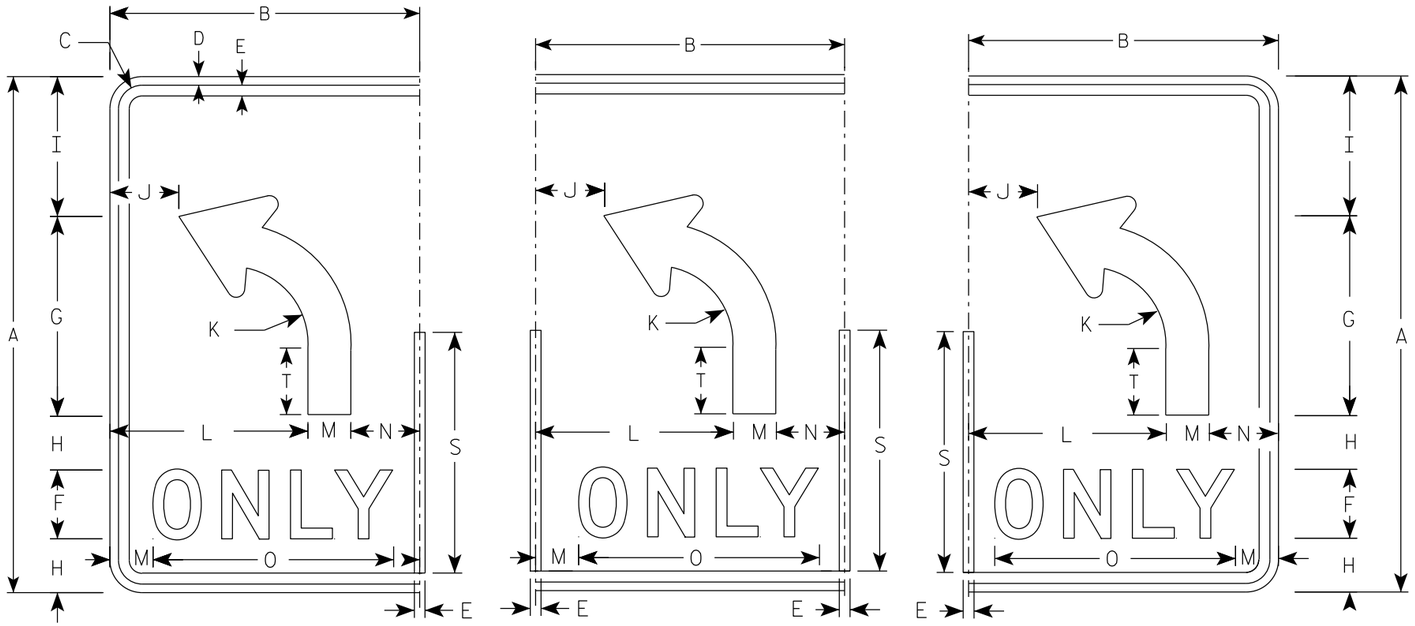
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

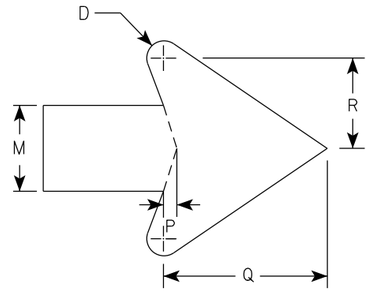
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 286 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



(L) (L) (L)



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	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

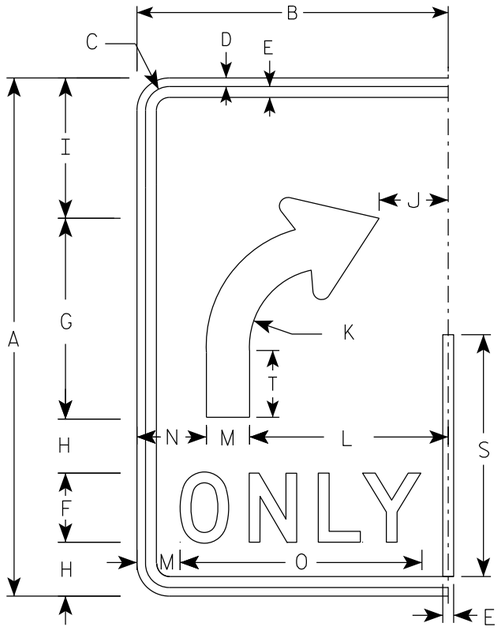
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

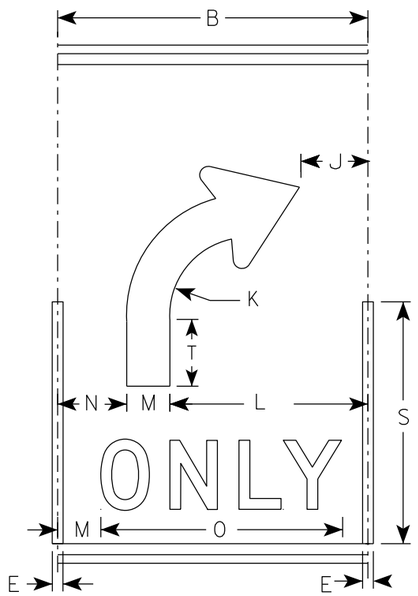
SHEET NO: 287 E

NOTES

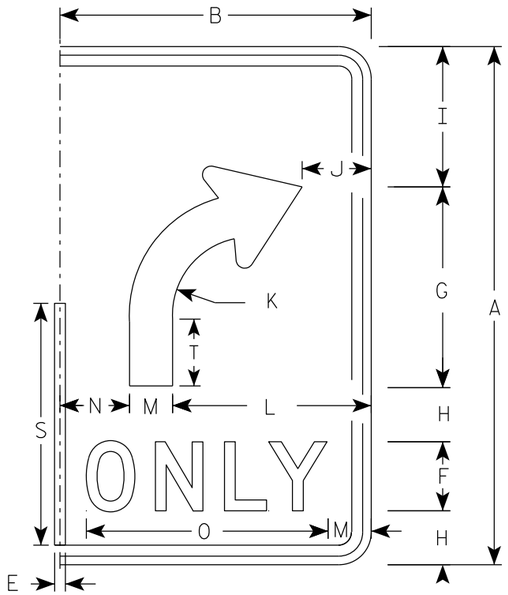
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



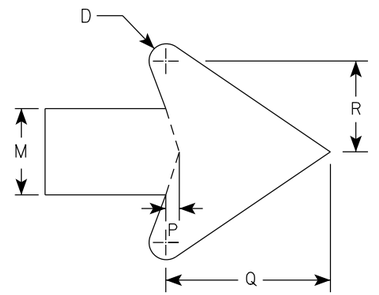
(R)



(R)



(R)



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	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

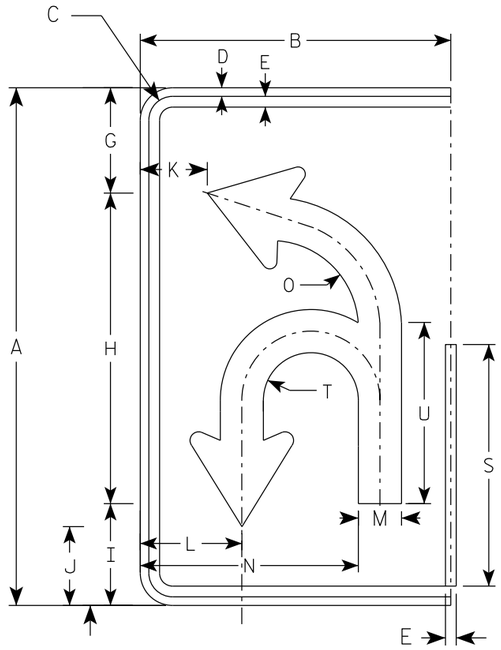
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

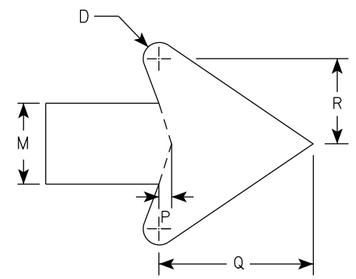
SHEET NO: 288 **E**

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



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	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

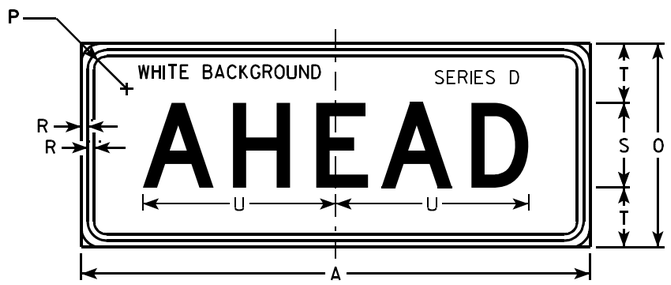
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 289 | E



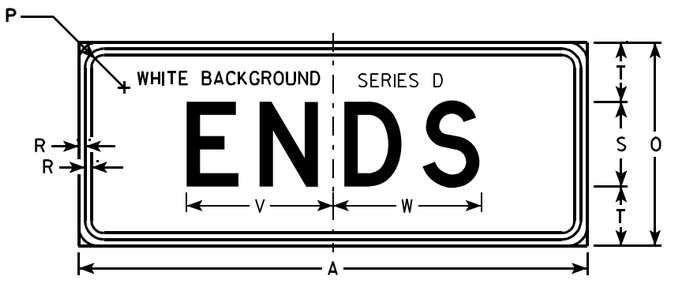
R3-17

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - AS SHOWN
   Message - BLACK
3. Message Series - C or as noted on the Signs.
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.



R3-17ap



R3-17bp

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	R3-17 Area sq. ft.	R3-17ap Area sq. ft.	R3-17bp Area sq. ft.
1																													
2S	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
2M	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
3																													
4																													
5																													

STANDARD SIGN
R3-17 & R3-17a&bp

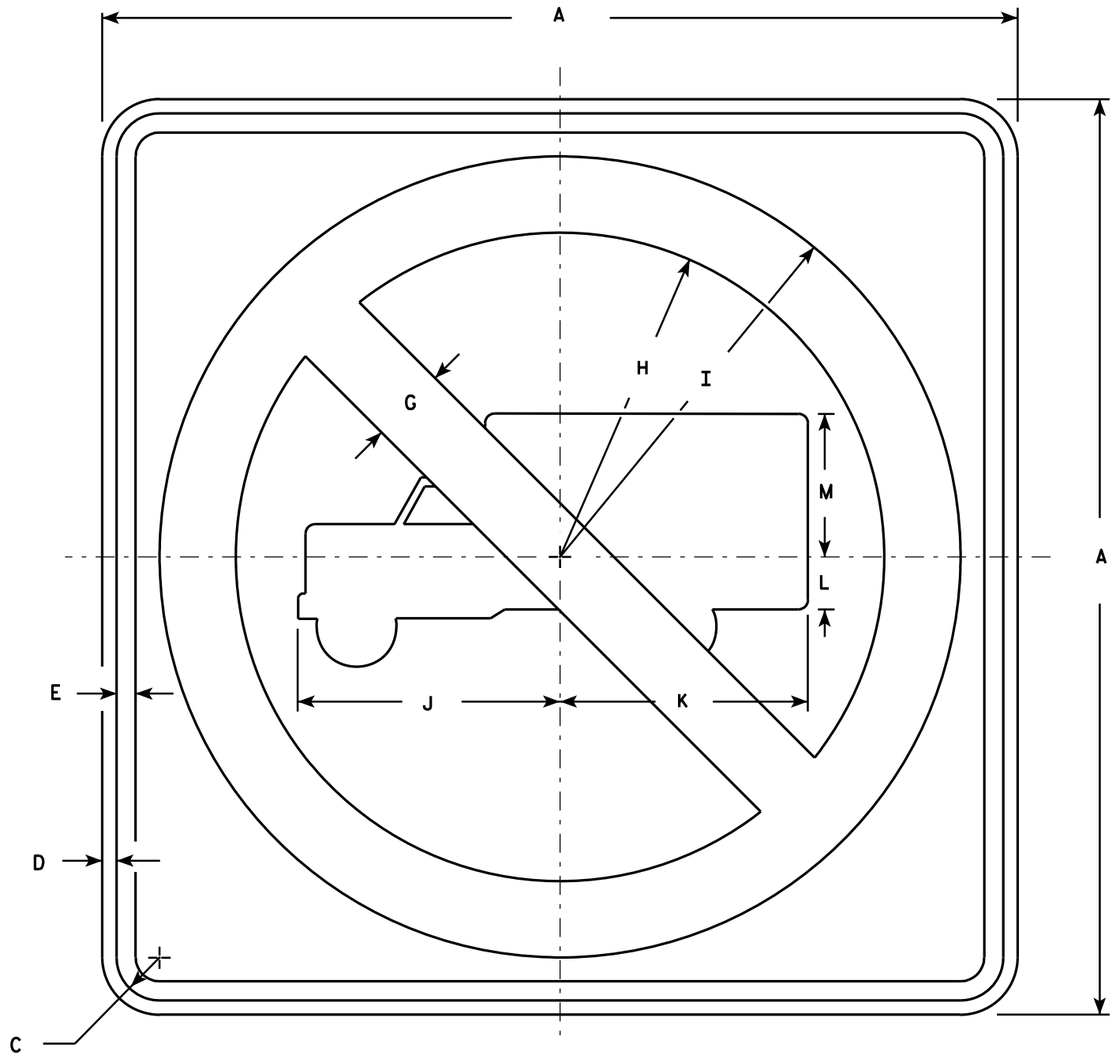
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

PROJECT NO:

SHEET NO: 290 E



R5-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Circle & Diagonal - Reflective red.
   Truck Symbol & Border - Non-reflective black.

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		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
2M	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
3	30		1 3/8	1/2	5/8		2 1/2	10 5/8	13 1/8	8 1/2	8 1/8	1 5/8	4 3/4														6.25
4	36		1 5/8	5/8	3/4		3	12 3/4	15 3/4	10 1/4	9 3/4	2	5 3/4														9.0
5	48		2 1/4	3/4	1		4	17	21	13 5/8	13	2 5/8	7 5/8														16.0

STANDARD SIGN
R5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-2.6

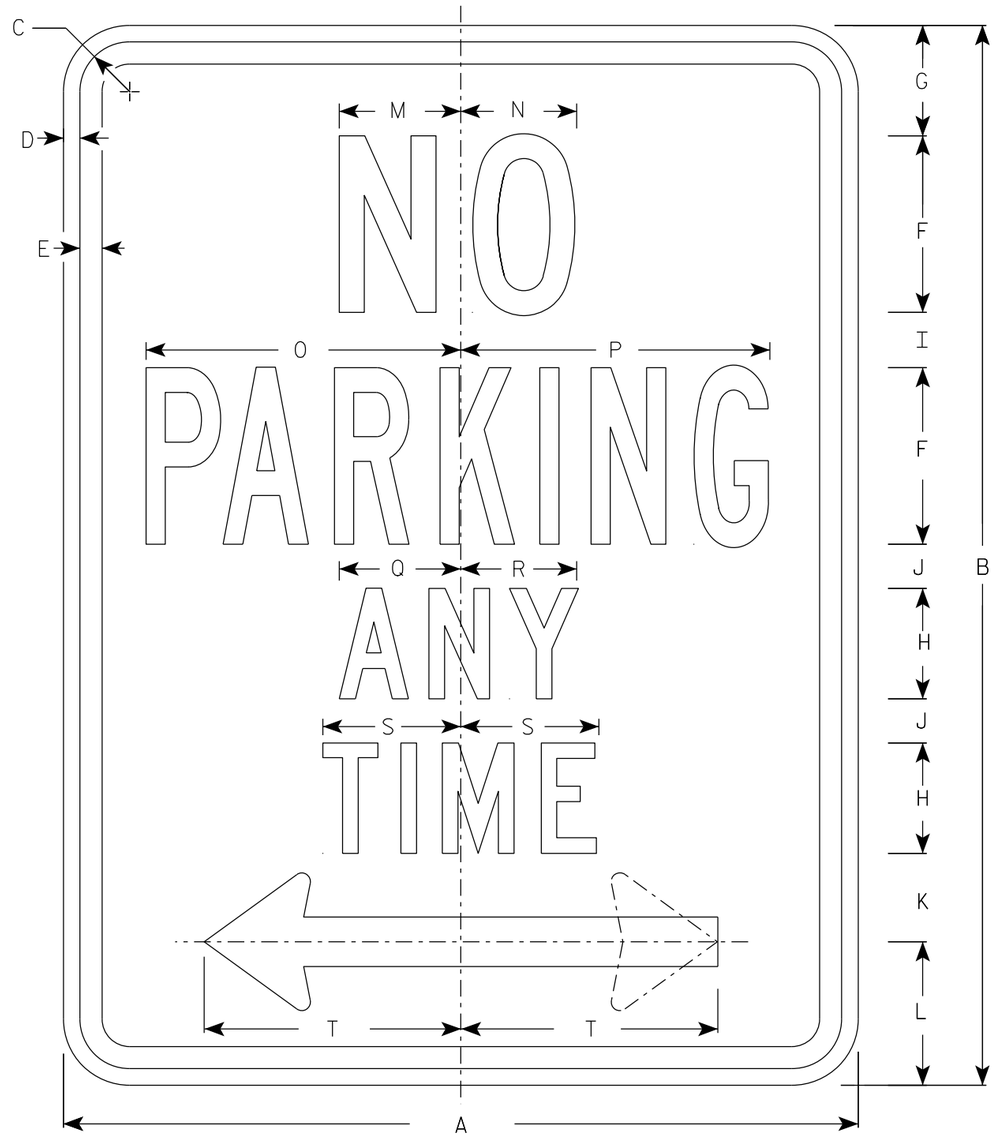
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 291 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R52.DGN PLOT DATE : 29-MAR-2011 11:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

7

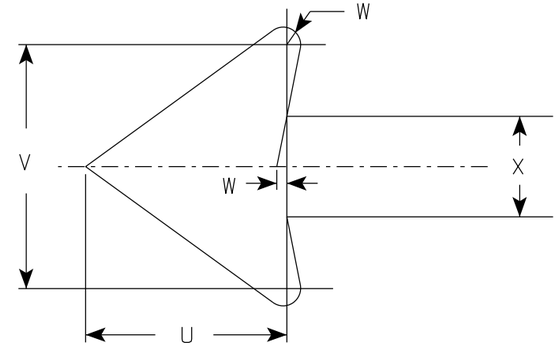
7



R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



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	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. R7-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 292 E

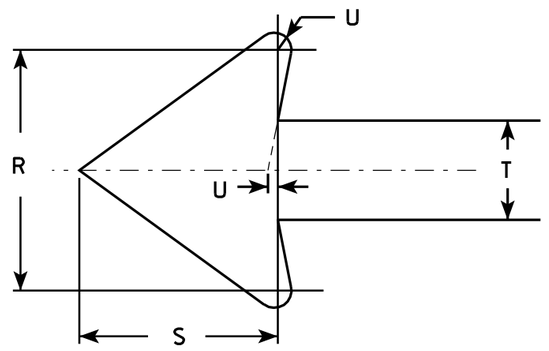


R7-2

*- See Note 5

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 7
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 numerals as required & adjust spacing to achieve proper balance.
6. R7-2D (double arrow)
   R7-2L (left arrow)
   R7-2R (right arrow)
7. Lines 1, 3 and 4 are series C, line 2 is series B.



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	12	18	1 1/8	3/8	3/8	3	1 7/8	1 1/2	7/8	7/8	2	2 1/2	2	2	4 7/8	4 7/8	3 7/8	1 3/4	1 1/2	3/4	1/8						1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 7/8	2 5/8	2 1/4	1 1/8	1/4						3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4						5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 3/4	3 1/2	3	1 1/2	1/4						5.0
4																											
5																											

STANDARD SIGN
R7-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-2.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 293 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R72.DGN PLOT DATE : 31-MAR-2011 09:29 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

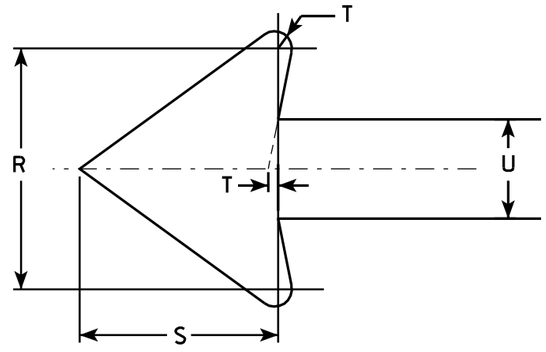
WISDOT/CADDS SHEET 42



R7-5

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Green
3. Message Series - See Note 7
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 numerals as required & adjust spacing to achieve proper balance.
6. R7-5D (double arrow)
   R7-5L (left arrow)
   R7-5R (right arrow)
7. Lines 1, 2 & 3 are series C Copy
   Line 4 Series B Copy.



* - See Note 5

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	12	18	1 1/8	3/8	3/8	2	2	2 1/4	1 1/4	4	2 1/2	2 1/8	2	2 7/8	4 5/8	4 1/2	3 7/8	1 3/4	1 1/2	1/8	3/4						1.5
2S	18	24	1 1/8	3/8	1/2	3	3	2 5/8	1 1/4	5 5/8	3 1/4	3 1/8	3 1/8	4 1/4	6 7/8	6 3/4	5 7/8	2 5/8	2 1/4	1/4	1 1/8						3.0
2M	24	30	1 1/8	3/8	1/2	4	3	3	2	6	3 1/2	4 1/4	4 1/8	5 3/4	9 1/8	9 1/8	7 3/4	3 1/2	3	1/4	1 1/2						5.0
3	24	30	1 1/8	3/8	1/2	4	3	3	2	6	3 1/2	4 1/4	4 1/8	5 3/4	9 1/8	9 1/8	7 3/4	3 1/2	3	1/4	1 1/2						5.0
4																											
5																											

STANDARD SIGN
R7-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/31/2011 PLATE NO. R7-5.8

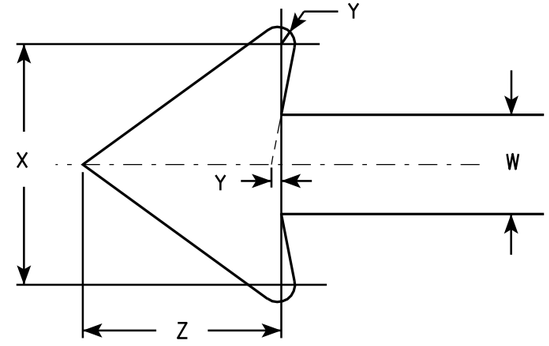
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 294	E



R7-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 6
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. R7-51D (double arrow)
   R7-51R (right arrow)
   R7-51L (left arrow)
6. Lines 1, 3 and 4 are Series C.
   Line 2 is Series B.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	4 7/8	5/8	1 3/4	2 1/2	4 3/8	3 7/8	3/4	1 3/4	1/8	1 1/2	1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 3/4	1 1/8	1 1/2	3 1/8	5 1/2	5 7/8	1 1/8	2 5/8	1/4	2 1/4	3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
4																											
5																											

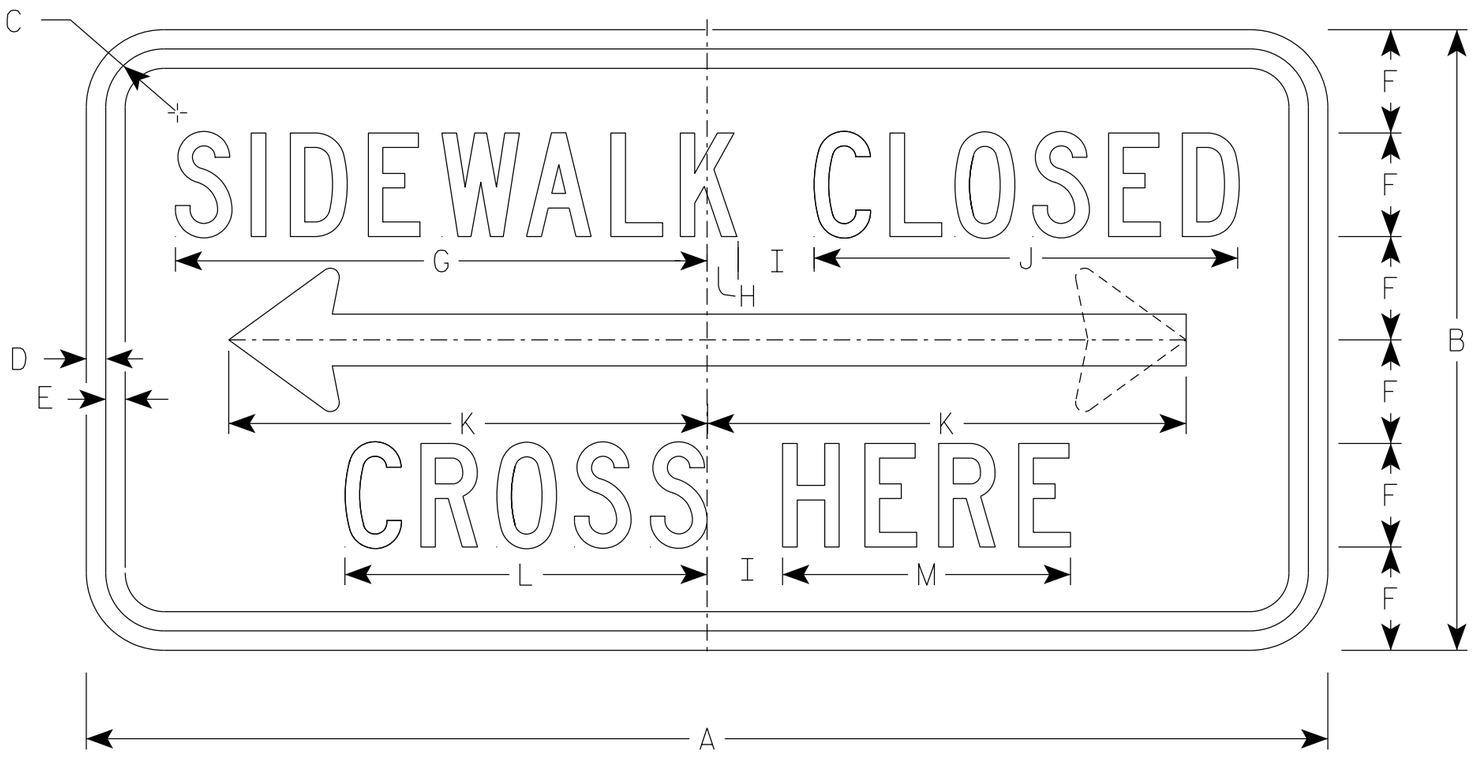
STANDARD SIGN
R7-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-51.6

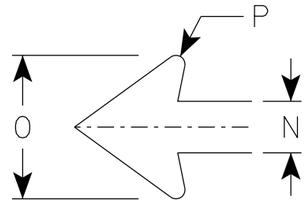
PROJECT NO:	HWY:	COUNTY:			SHEET NO: 295	E



R9-11A

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. Use Size 2 for Sidewalks. Use Size 3 for paths and Trails.
6. R9-11AD (double arrow)
   R9-11AL (left arrow)
   R9-11AR (right arrow)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	2	10 1/4	5/8	1 1/2	8 1/4	9 1/4	7	5 5/8	1	2 3/4	1/8											2.0
2M	24	12	1 1/8	3/8	3/8	2	10 1/4	5/8	1 1/2	8 1/4	9 1/4	7	5 5/8	1	2 3/4	1/8											2.0
3	30	15	1 1/8	3/8	1/2	2 1/2	12 3/4	1/2	2	10 1/4	12 3/8	8 5/8	6 3/4	1 1/4	3 5/8	1/4											3.125
4																											
5																											

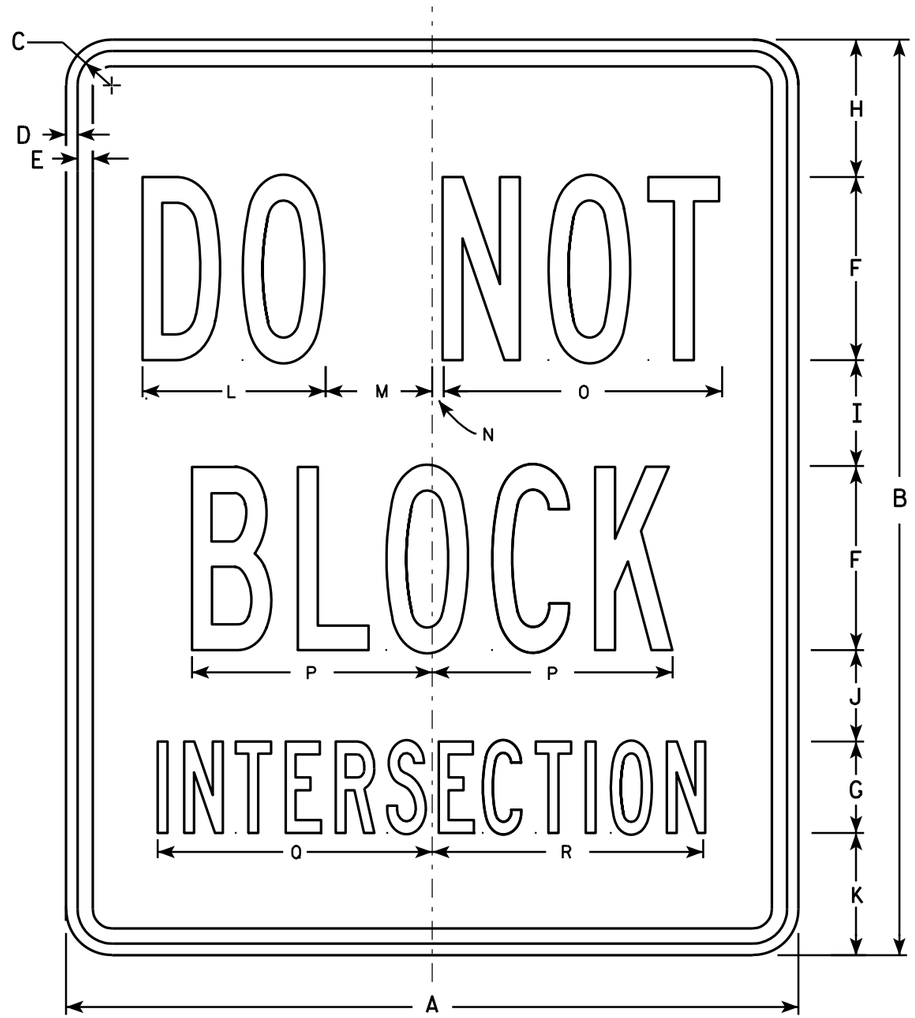
STANDARD SIGN
R9-11A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. R9-11A.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 296 | E



R10-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - 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																											
2S	24	30	1 1/8	3/8	1/2	6	3	4 1/2	3 1/2	3	4	6	3 1/2	3/8	9 1/8	7 7/8	9	8 7/8									5.0
2M	24	30	1 1/8	3/8	1/2	6	3	4 1/2	3 1/2	3	4	6	3 1/2	3/8	9 1/8	7 7/8	9	8 7/8									5.0
3	36	48	1 3/8	1/2	5/8	10	5	7	5 1/4	4 1/2	6 1/4	10	5 5/8	1/2	15 1/8	13 1/8	15	14 7/8									12.0
4																											
5																											

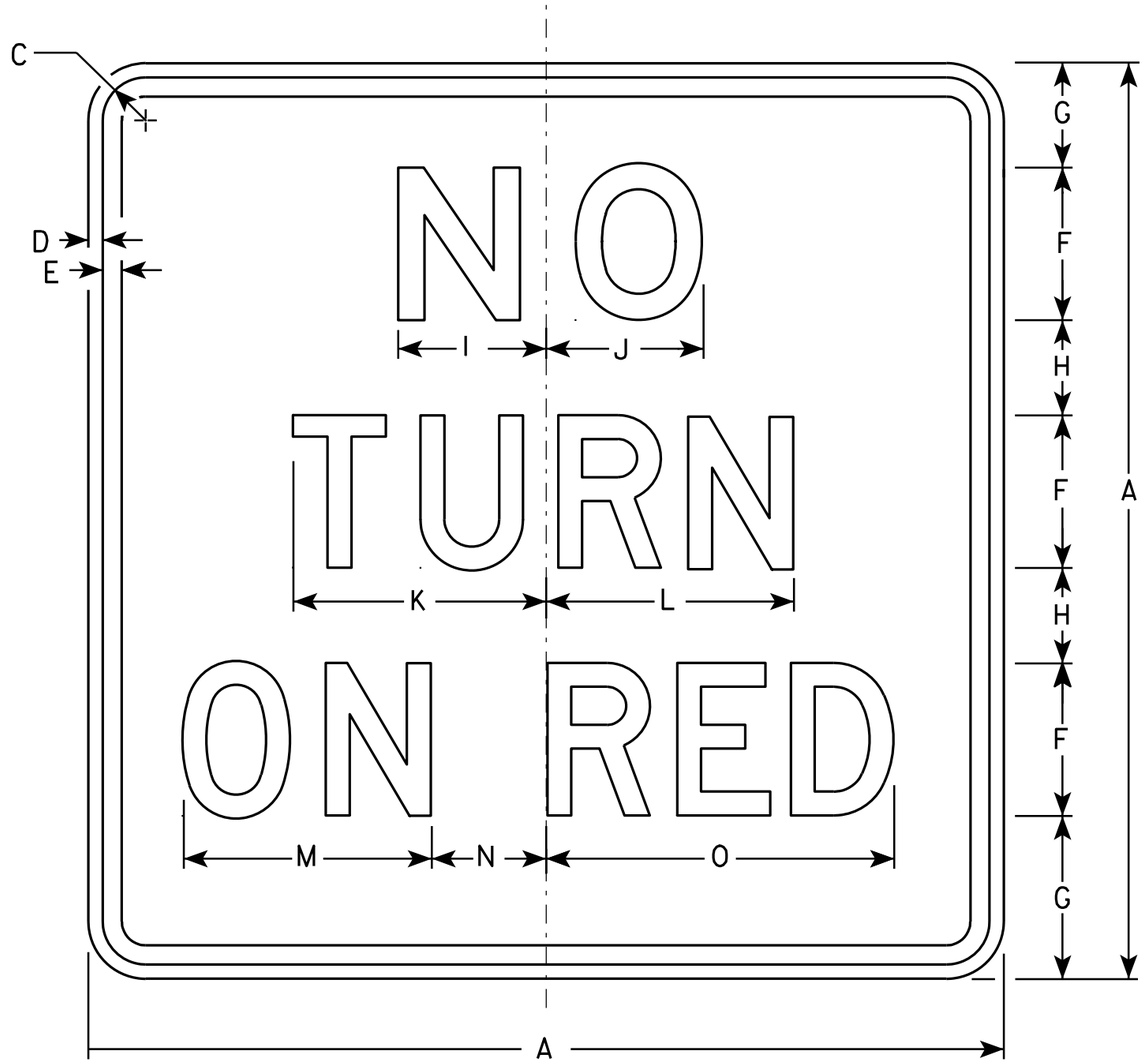
STANDARD SIGN
R10-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-7.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 297 | E



R10-11B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series E.
   Lines 2 and 3 are Series D.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3/8	3/8	3	2 3/4	1 3/4	3	3 1/8	5	4 7/8	5 1/4	1 7/8	7 1/8												2.25
2S	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0
2M	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0
3	30		1 3/8	1/2	5/8	5	4 1/2	3	4 7/8	5 1/4	8 1/4	8 1/8	7 3/4	4 1/8	11 7/8												6.25
4																											
5																											

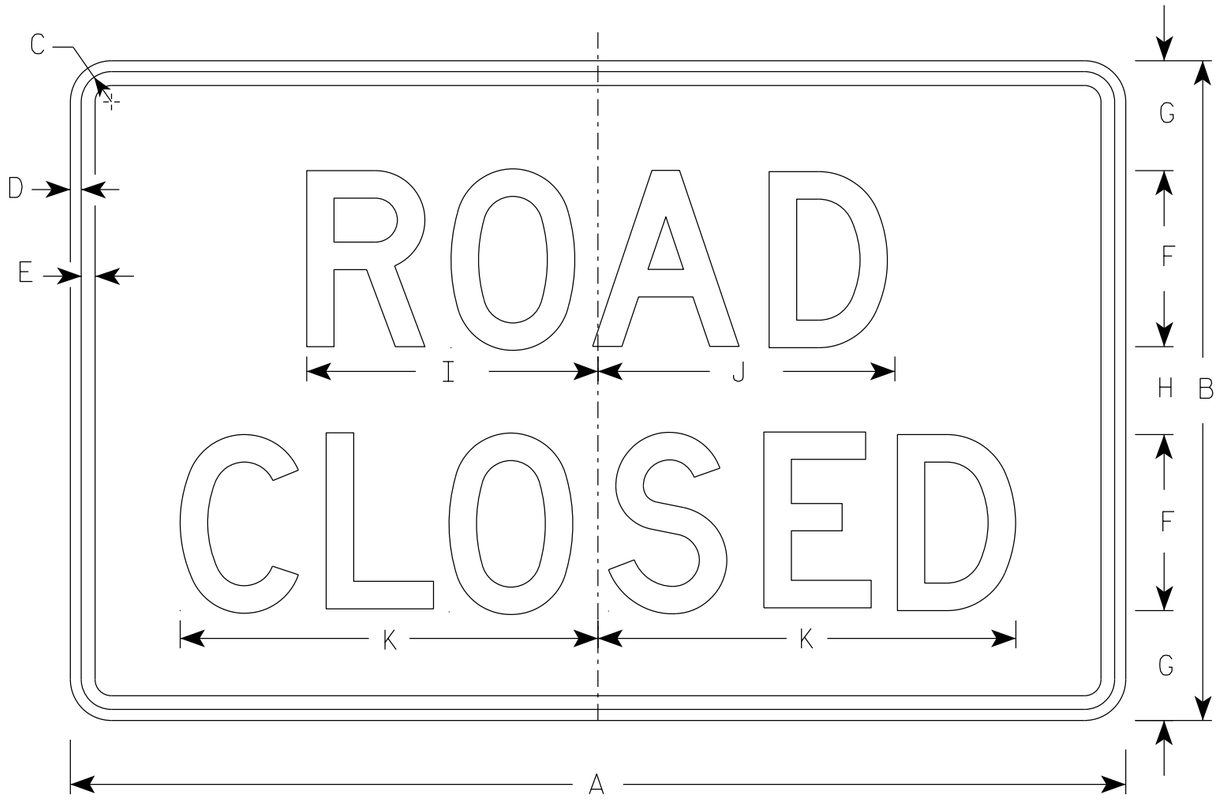
STANDARD SIGN
R10-11B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-11B.4

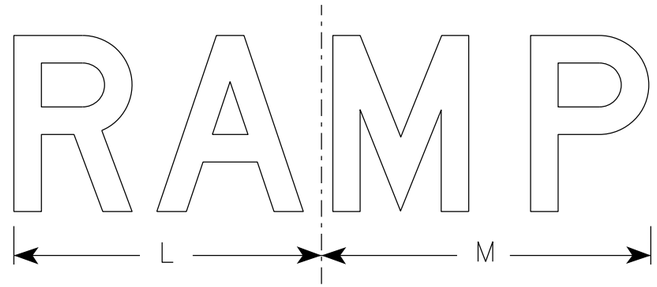
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 298 | E



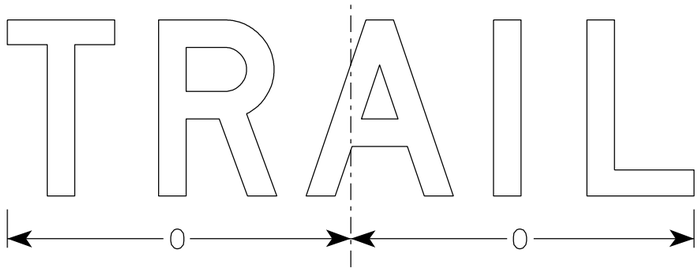
R11-2

NOTES

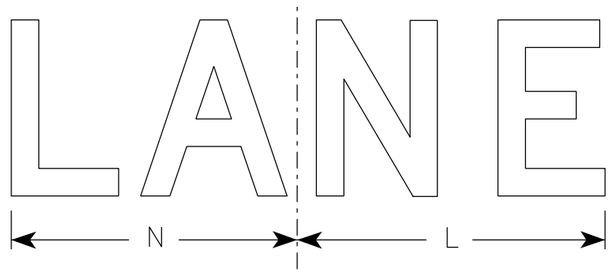
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

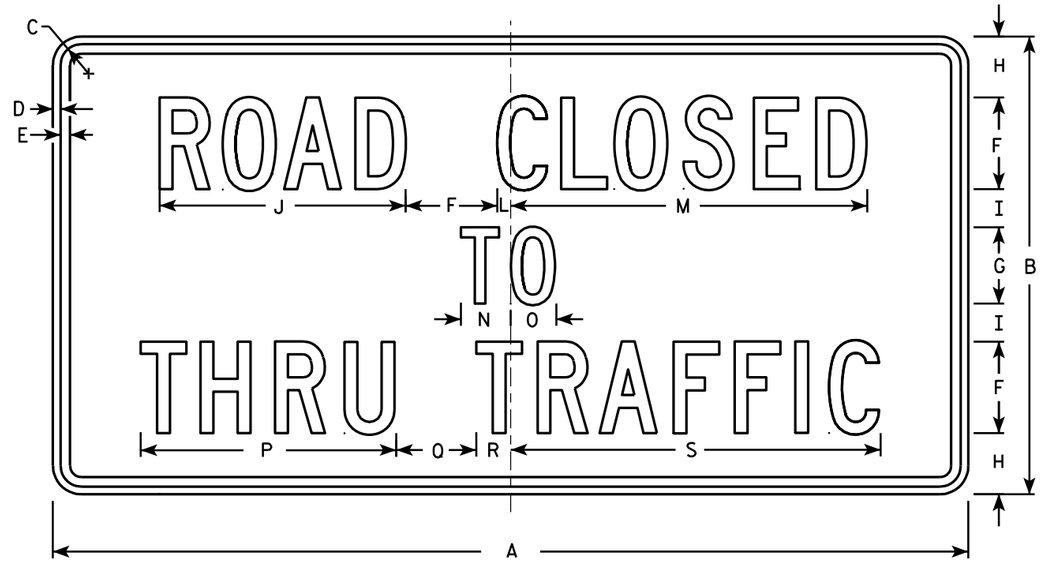
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 299 E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - 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 3/8	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 3/8	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																											

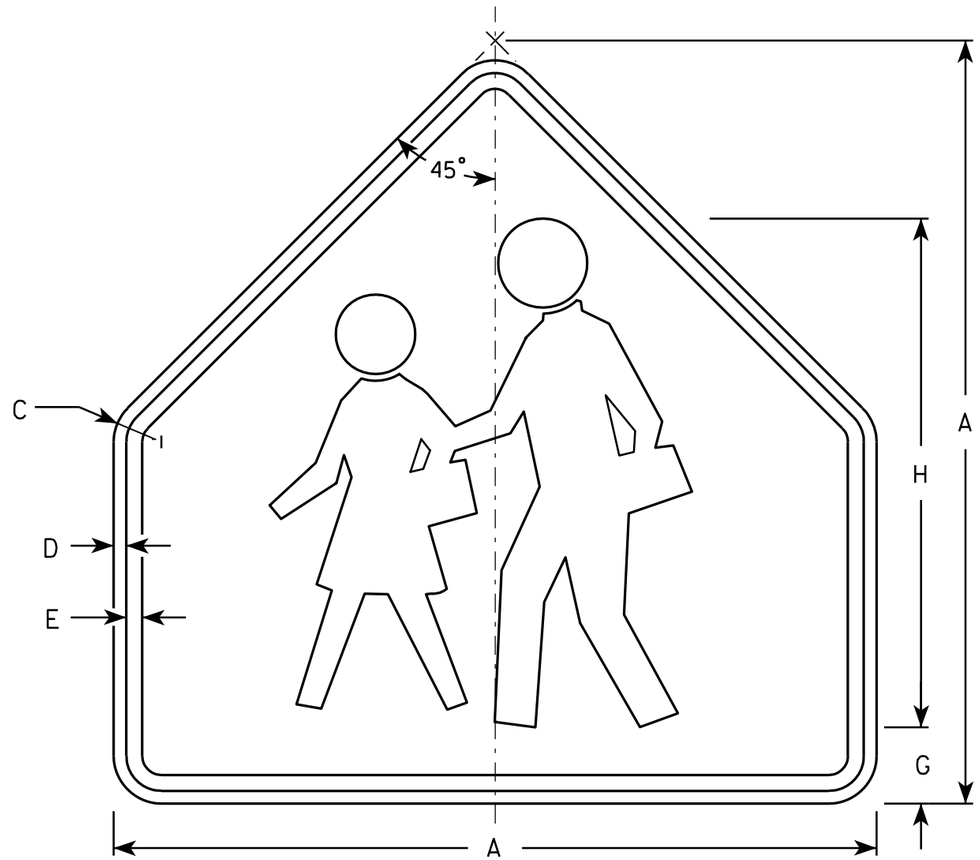
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 300	E



S1-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

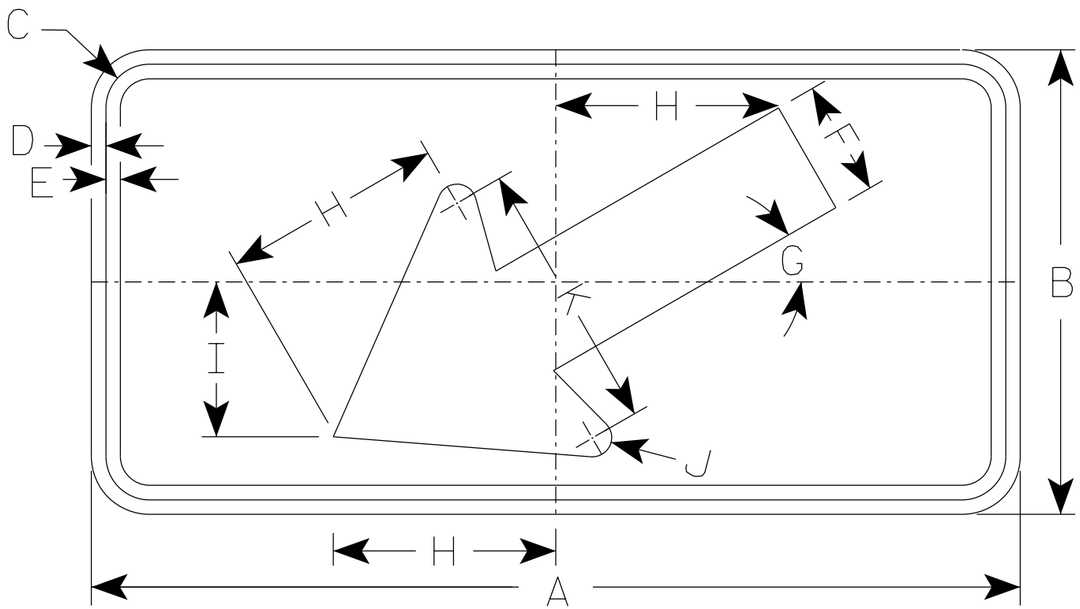
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 301	E



S16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow-Green
   Message - Black
3. S16-7R are the same as S16-7L 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	24	12	1 1/8	3/8	3/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5																											

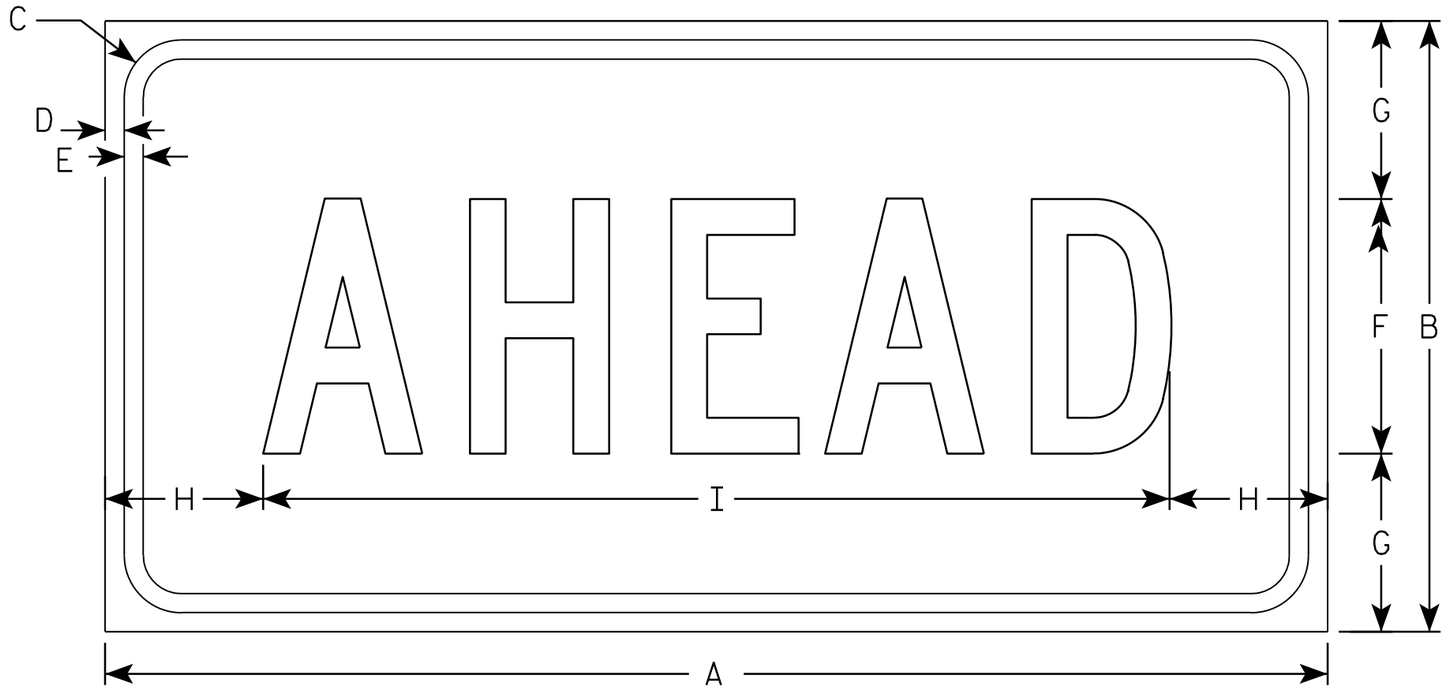
STANDARD SIGN
S16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/2021 PLATE NO. S16-7.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 302 E



S16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   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	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

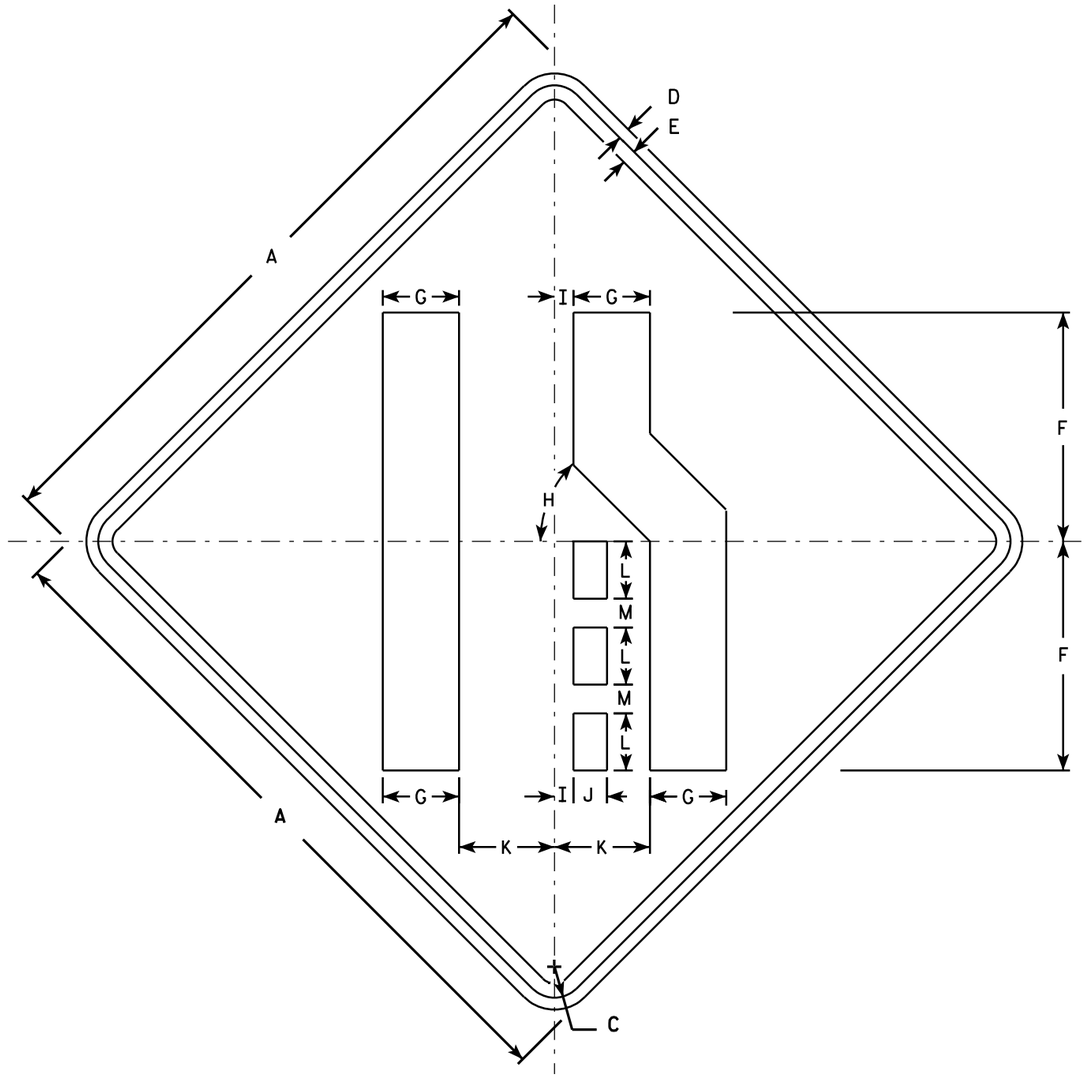
STANDARD SIGN
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 303 | E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

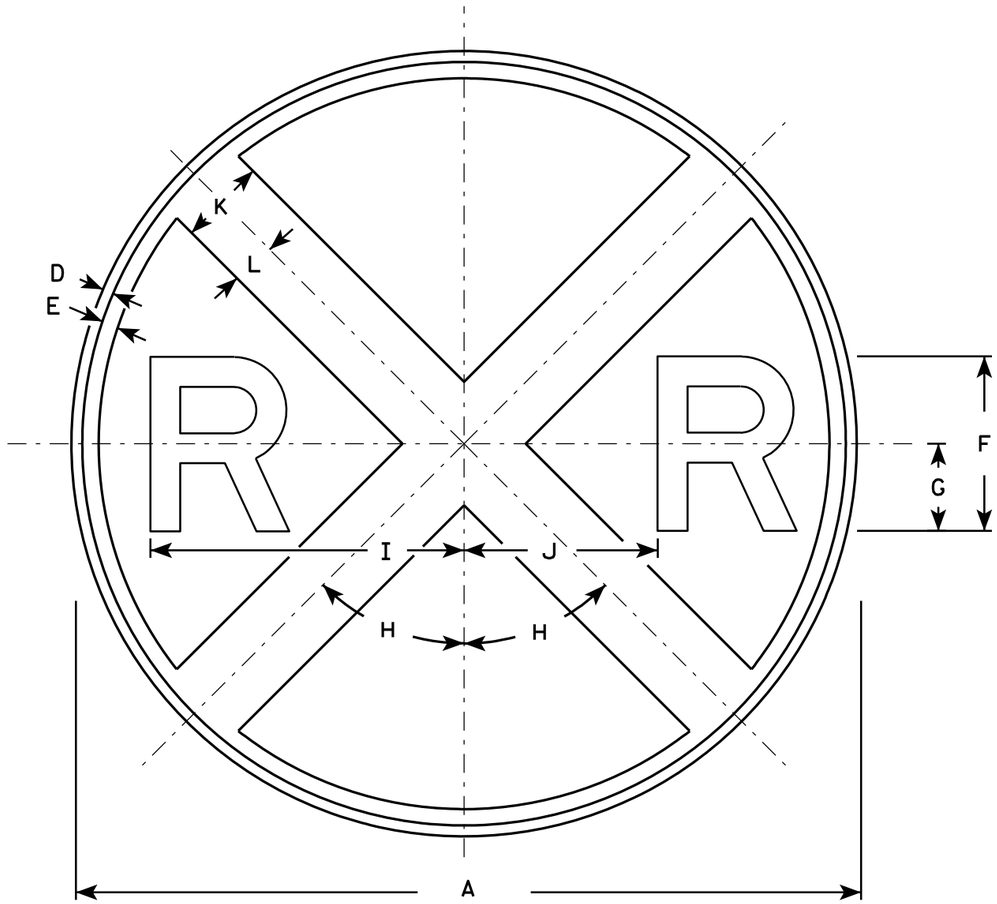
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 304 E



W10-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E

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			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3																											
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

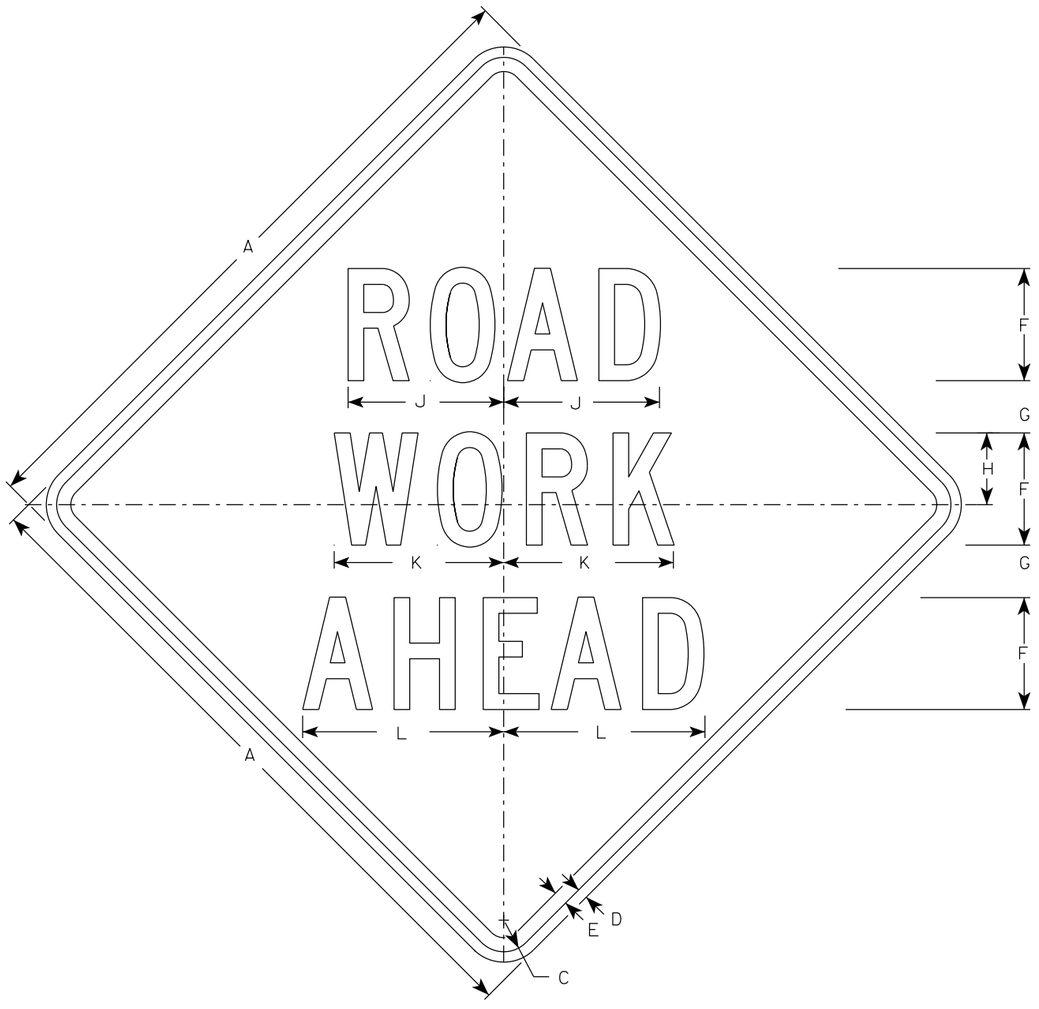
STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

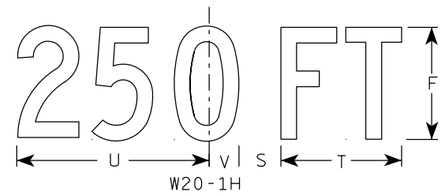
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-1.8

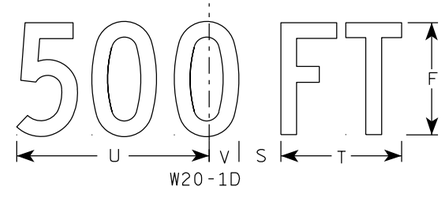
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 305	E



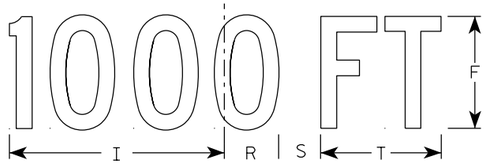
W20-1A



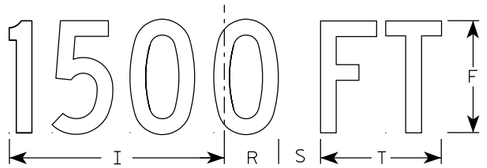
W20-1H



W20-1D



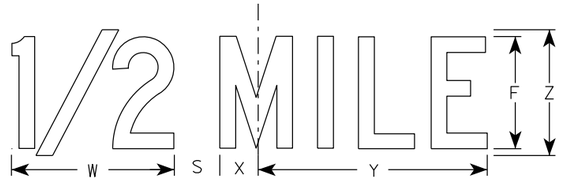
W20-1C



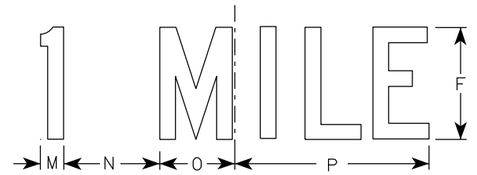
W20-1B

NOTES

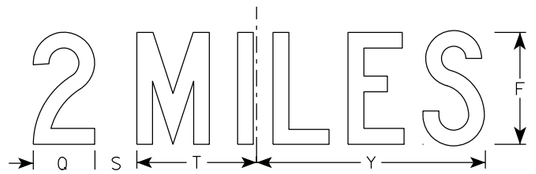
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

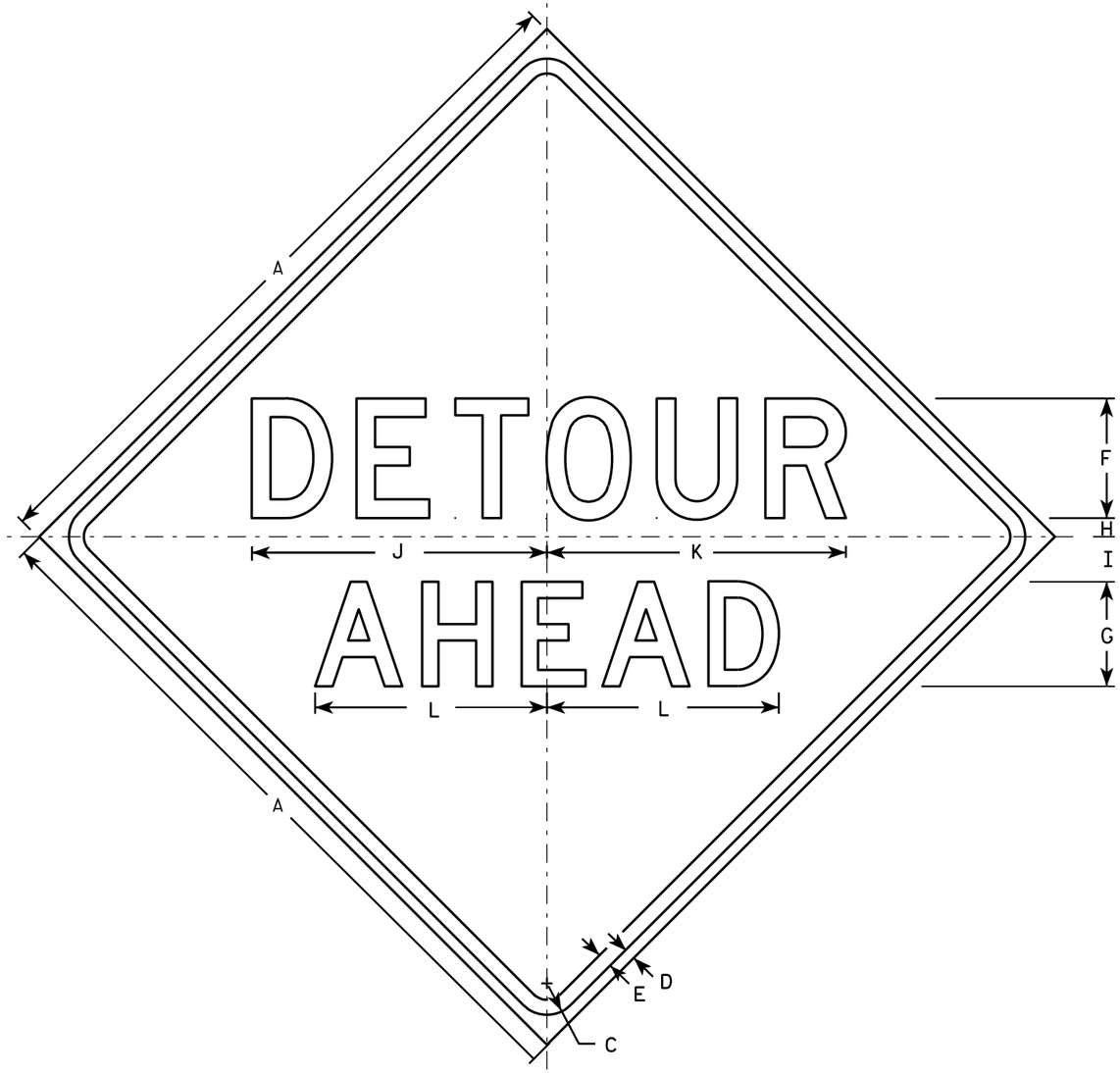
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

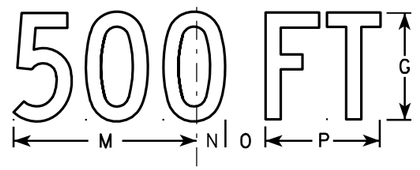
WISDOT/CADDS SHEET 42

7

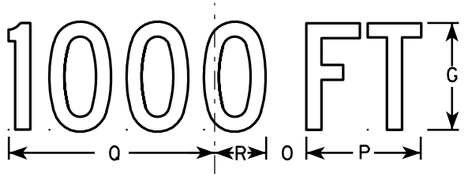
7



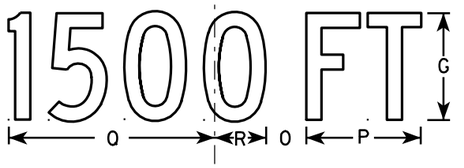
W20-2A



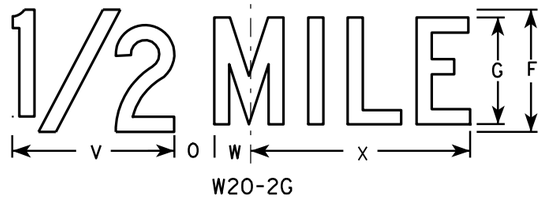
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. 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	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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

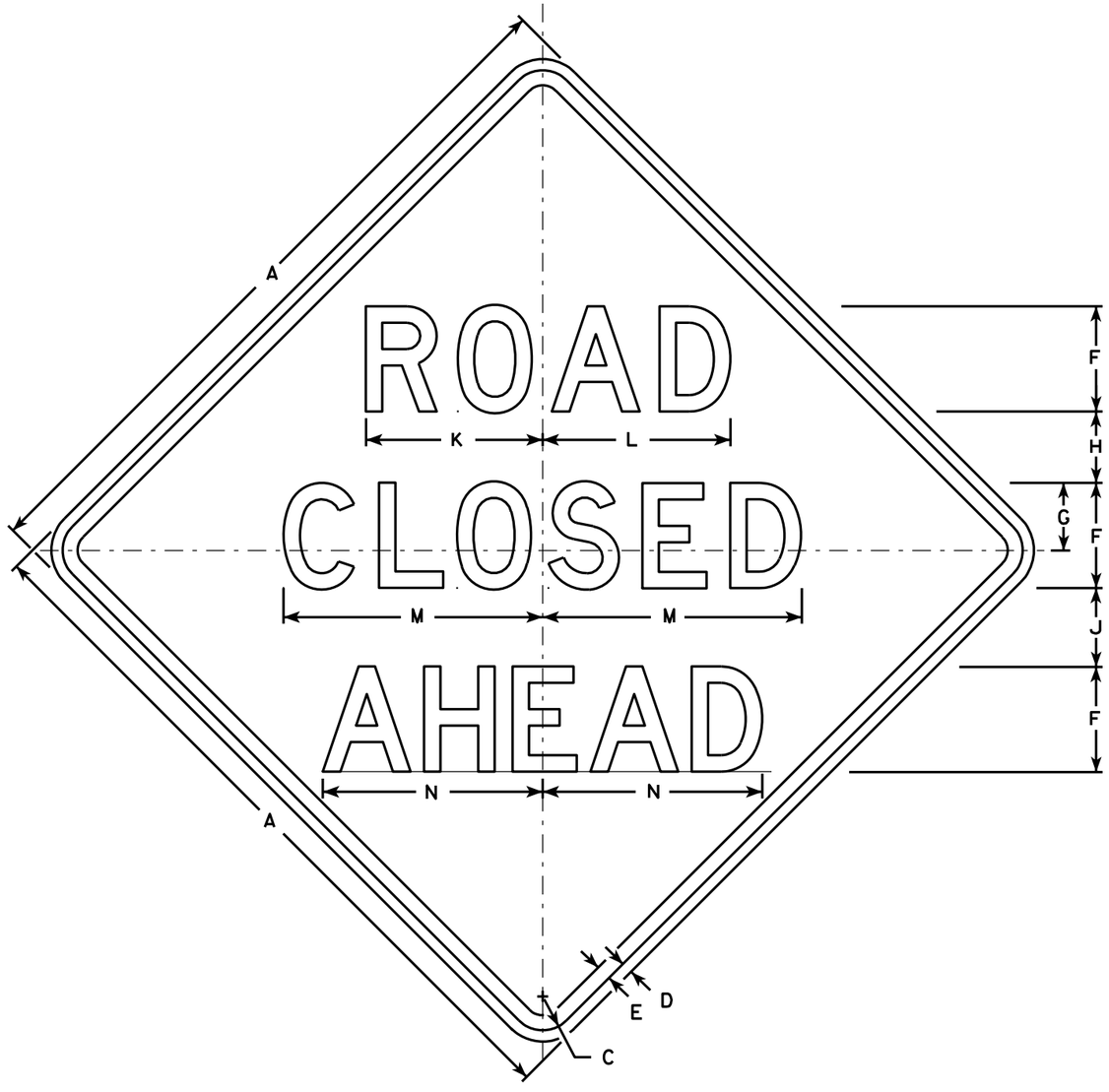
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

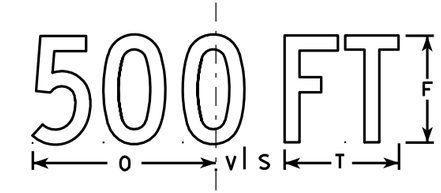
DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 307 | E

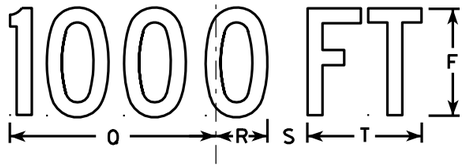
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN PLOT DATE : 18-MAR-2011 10:00 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



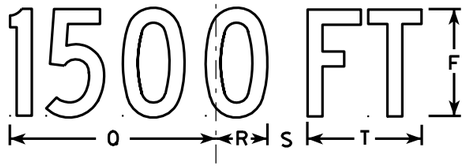
W20-3A



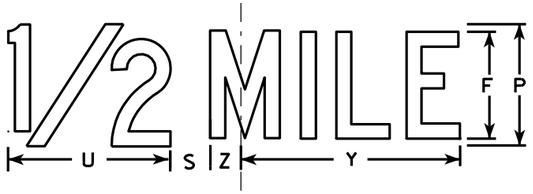
W20-3D



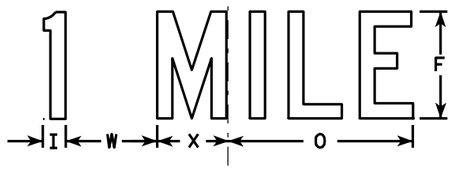
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. 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		1 5/8	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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		2 1/4	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

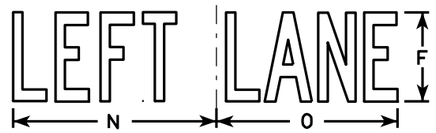
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

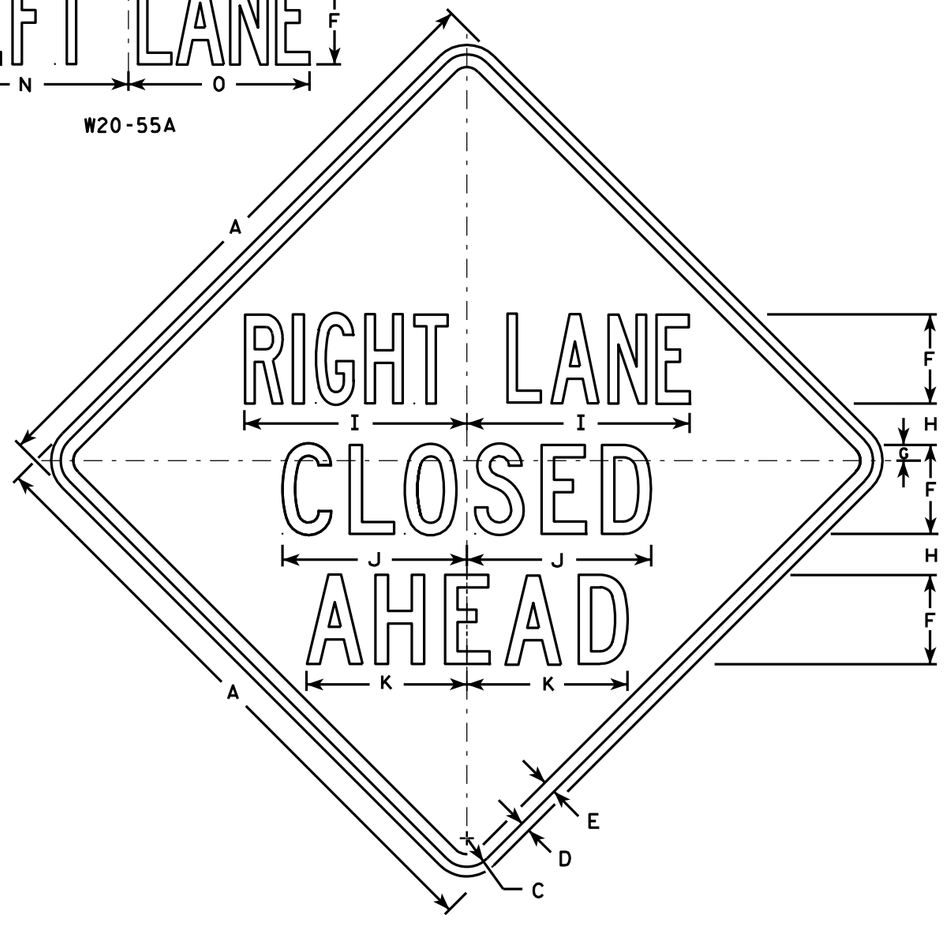
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 308 | E



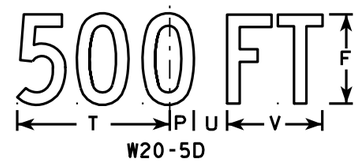
W20-56A



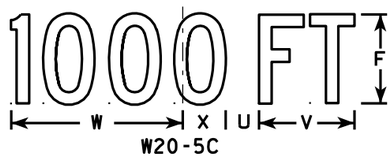
W20-55A



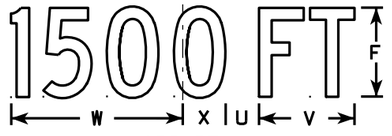
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

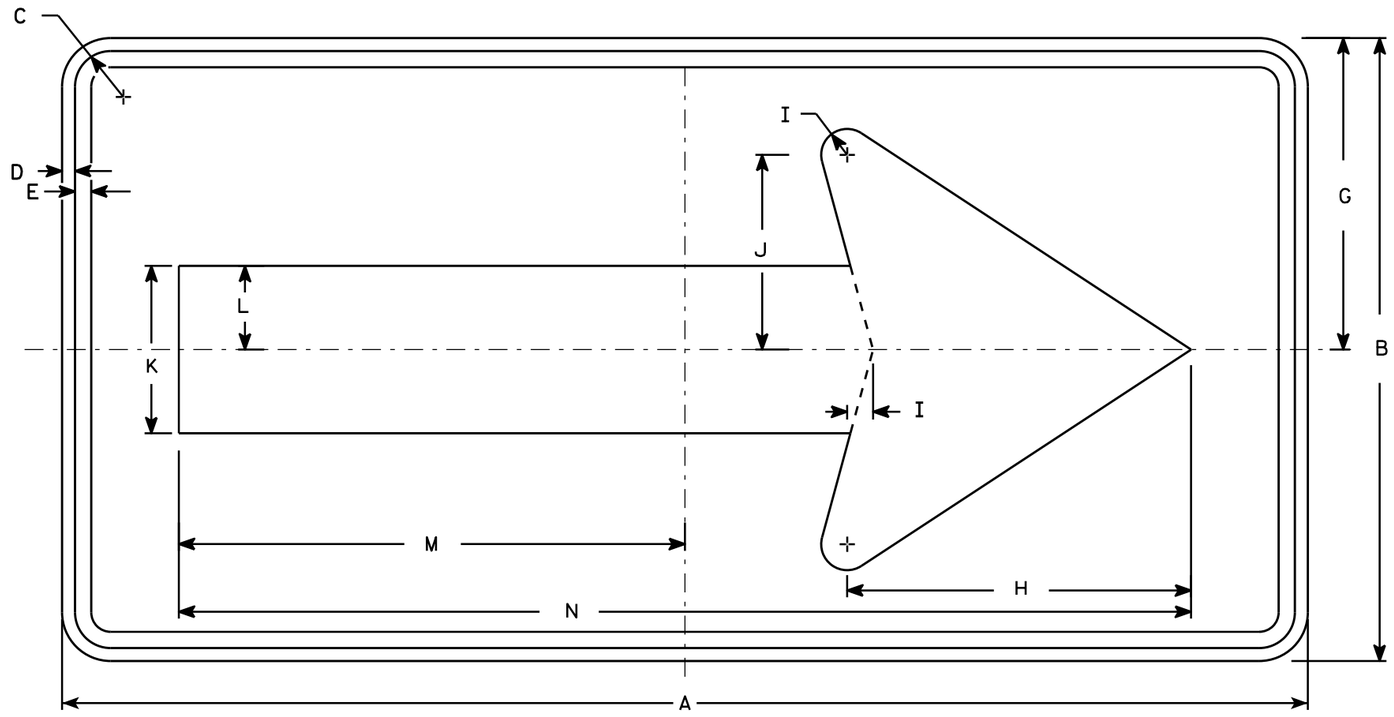
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 309	E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

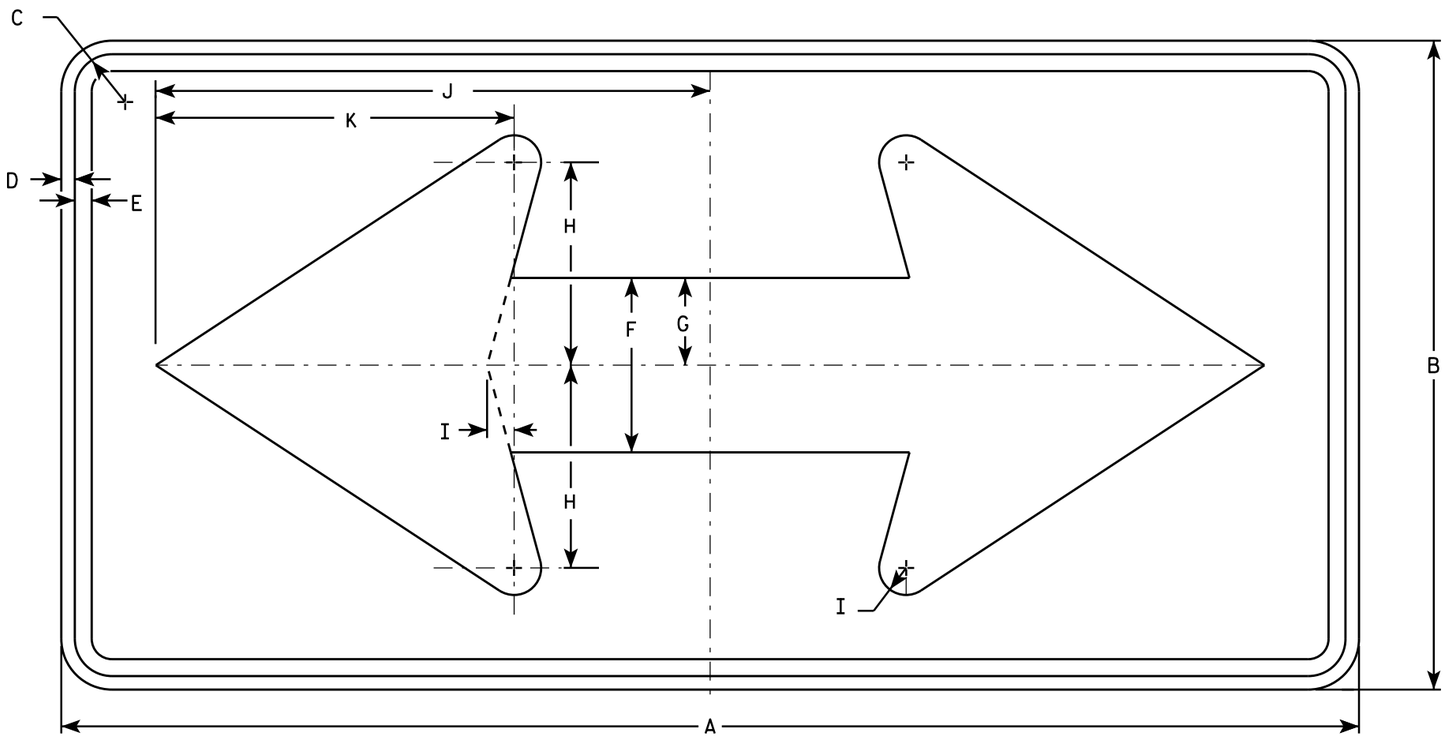
STANDARD SIGN
W01-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-6.1

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



W01-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5

STANDARD SIGN
W01-7

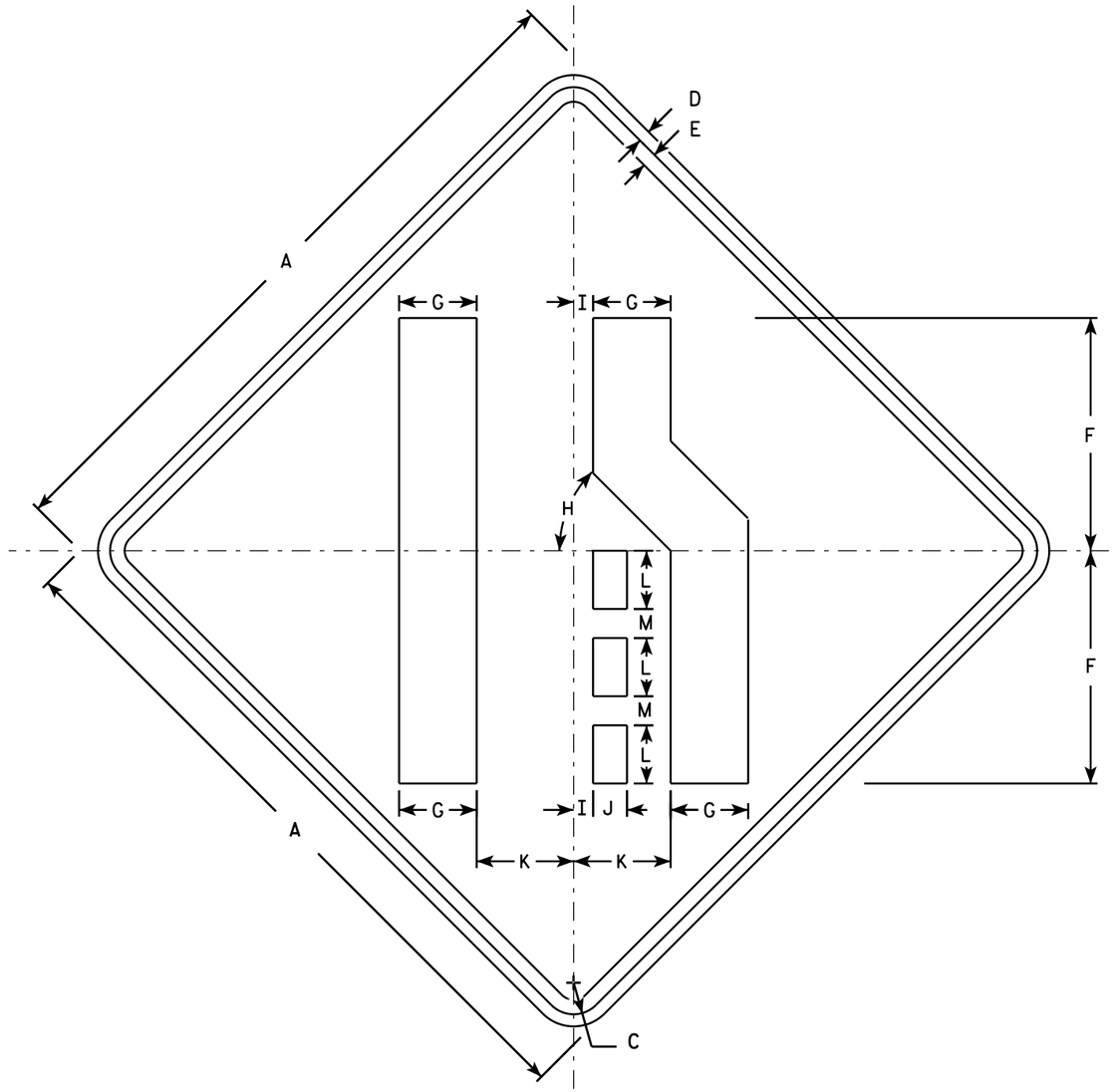
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE 1311 W01-7.1

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

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W017.DGN PLOT DATE : 20-NOV-2013 10:35 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.604022:1.000000
WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 312 W04-2.1

PROJECT NO:

SHEET NO: E

BELOIT ROAD

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.11	MASS ORDINATE
17+25.00	1725		20	18	0	0	0	0	0	0	0
17+50.00	1750	25	80	37	0	46	25	0	46	0	21
17+75.00	1775	25	121	56	0	93	43	0	139	0	71
18+00.00	1800	25	169	75	0	134	60	0	274	0	145
18+25.00	1825	25	128	50	11	138	58	5	411	6	219
18+50.00	1850	25	121	50	9	115	46	9	526	16	278
18+75.00	1875	25	201	77	0	149	58	4	675	21	364
19+00.00	1900	25	247	108	0	207	85	0	883	21	486
19+25.00	1925	25	164	62	8	190	79	4	1073	25	593
19+50.00	1950	25	131	49	0	137	52	4	1210	29	674
19+75.00	1975	25	131	49	0	121	46	0	1331	29	750
20+00.00	2000	25	122	49	0	117	46	0	1448	29	822
20+25.00	2025	25	132	49	0	118	46	0	1566	29	894
20+50.00	2050	25	123	49	0	118	46	0	1684	29	966
20+75.00	2075	25	125	49	0	115	46	0	1799	29	1036
21+00.00	2100	25	132	49	0	119	46	0	1918	29	1109
21+25.00	2125	25	130	49	0	121	46	0	2039	29	1185
21+50.00	2150	25	135	49	0	123	46	0	2162	29	1262
21+75.00	2175	25	123	49	0	119	46	0	2281	29	1336
22+00.00	2200	25	117	51	0	111	46	0	2392	29	1401
22+25.00	2225	25	217	94	1	155	67	0	2547	29	1487
22+50.00	2250	25	143	63	0	167	73	0	2713	30	1581
22+75.00	2275	25	106	43	0	115	49	0	2829	30	1647
23+00.00	2300	25	112	49	1	101	43	0	2930	30	1704
23+25.00	2325	25	128	49	0	111	46	0	3041	31	1769
23+39.31	2339	14	121	49	0	66	26	0	3107	31	1809
23+50.00	2350	11	124	49	0	49	19	0	3155	31	1838
23+75.00	2375	25	118	49	0	112	46	0	3267	31	1905
24+00.00	2400	25	130	49	0	115	46	0	3382	31	1974
24+25.00	2425	25	128	49	0	119	46	0	3502	31	2048
24+50.00	2450	25	137	49	0	123	46	0	3624	31	2125
24+64.17	2464	14	144	49	0	74	26	0	3698	31	2173
24+75.00	2475	11	127	49	0	54	20	0	3752	31	2208
25+00.00	2500	25	125	49	0	117	46	0	3869	31	2279
25+25.00	2525	25	121	49	0	114	46	0	3983	31	2347
25+50.00	2550	25	124	49	0	113	46	0	4096	31	2415
25+75.00	2575	25	125	49	0	115	46	0	4212	31	2485
26+00.00	2600	25	179	55	3	141	48	1	4352	32	2576
26+25.00	2625	25	234	93	0	191	69	1	4543	34	2697
26+50.00	2650	25	161	67	2	183	74	1	4726	35	2805
26+75.00	2675	25	164	68	6	150	62	4	4877	39	2889
27+00.00	2700	25	269	121	0	200	88	3	5077	42	2998

9

9

ALL CATEGORY 0010

PROJECT NO: 2525-03-71	HWY: W. BELOIT ROAD	COUNTY: MILWAUKEE	EARTHWORK DATA	SHEET: 313	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

BELOIT ROAD

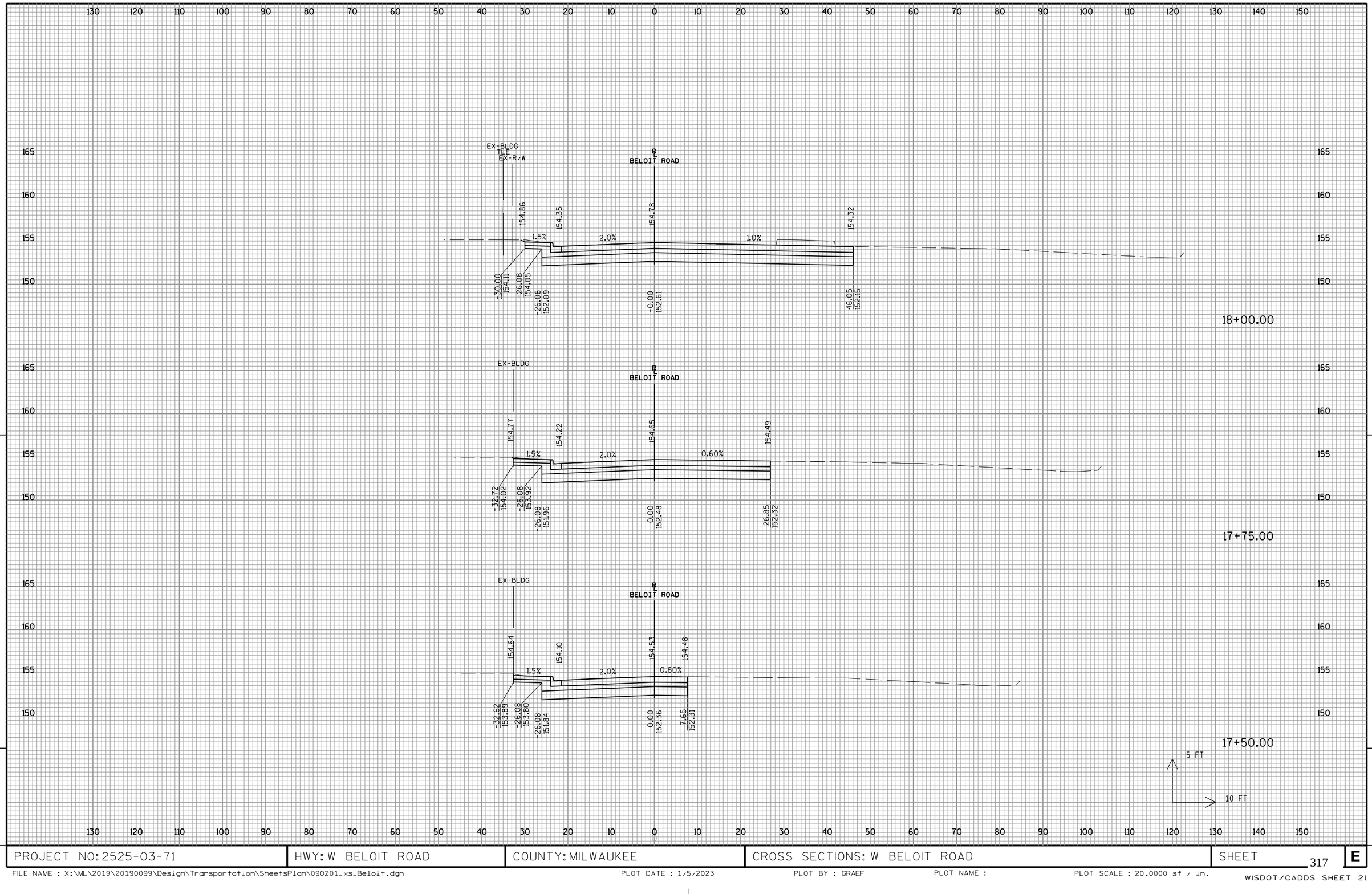
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.11	MASS ORDINATE
27+25.00	2725	25	209	49	15	221	79	7	5299	50	3133
27+50.00	2750	25	117	49	7	151	46	10	5450	61	3227
27+75.00	2775	25	113	49	6	106	46	6	5556	68	3281
28+00.00	2800	25	110	49	2	103	46	4	5659	72	3335
28+25.00	2825	25	143	49	0	117	46	1	5776	73	3406
28+50.00	2850	25	127	49	2	125	46	1	5901	74	3484
28+75.00	2875	25	126	49	6	117	46	4	6018	78	3552
29+00.00	2900	25	121	49	2	114	46	4	6133	82	3616
29+25.00	2925	25	125	49	0	114	46	1	6247	83	3684
29+50.00	2950	25	128	49	0	117	46	0	6364	83	3755
29+75.00	2975	25	123	49	0	116	46	0	6480	83	3826
30+00.00	3000	25	257	51	1	176	46	0	6656	84	3955
30+11.60	3012	12	277	113	0	115	35	0	6771	84	4034
30+25.00	3025	13	243	97	0	129	52	0	6900	84	4111
30+50.00	3050	25	167	64	1	190	74	0	7090	85	4226
30+75.00	3075	25	179	76	3	160	65	2	7250	87	4319
31+00.00	3100	25	265	110	0	206	86	1	7455	88	4437
31+25.00	3125	25	182	52	2	207	75	1	7662	89	4568
31+50.00	3150	25	126	49	0	143	47	1	7805	90	4663
31+75.00	3175	25	127	49	0	117	46	0	7922	90	4734
31+88.49	3188	13	133	49	0	65	25	0	7987	90	4775
32+00.00	3200	12	134	49	0	57	21	0	8044	90	4811
32+25.00	3225	25	131	49	0	123	46	0	8167	90	4888
32+50.00	3250	25	126	49	0	119	46	0	8285	90	4961
32+75.00	3275	25	123	49	0	115	46	0	8401	90	5031
33+00.00	3300	25	132	49	0	118	46	0	8519	90	5104
33+25.00	3325	25	128	49	0	120	46	0	8639	90	5178
33+50.00	3350	25	138	52	1	123	47	0	8762	91	5254
33+75.00	3375	25	240	104	0	175	72	0	8937	91	5357
34+00.00	3400	25	191	72	0	200	81	0	9137	91	5475
34+25.00	3425	25	123	49	0	145	56	0	9282	91	5565
34+50.00	3450	25	139	49	0	121	46	0	9404	91	5640
34+75.00	3475	25	134	49	0	126	46	0	9530	91	5721
35+00.00	3500	25	128	49	0	121	46	0	9651	91	5797
35+25.00	3525	25	133	49	0	121	46	0	9772	91	5872
35+50.00	3550	25	134	49	0	124	46	0	9896	91	5950
35+75.00	3575	25	129	49	0	122	46	0	10017	91	6027
36+00.00	3600	25	129	49	0	119	46	0	10137	91	6101
36+25.00	3625	25	130	49	0	120	46	0	10257	91	6175
36+50.00	3650	25	129	49	0	120	46	0	10377	91	6249
36+75.00	3675	25	127	49	0	119	46	0	10495	91	6322
37+00.00	3700	25	131	49	0	119	46	0	10615	91	6396

BELOIT ROAD

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.11	MASS ORDINATE
37+25.00	3725	25	121	51	5	117	46	2	10731	94	6464
37+50.00	3750	25	232	98	0	163	69	2	10895	96	6556
37+75.00	3775	25	180	71	0	191	79	0	11085	96	6668
38+00.00	3800	25	131	49	0	144	56	0	11229	96	6756
38+25.00	3825	25	129	49	0	120	45	0	11350	96	6831
38+50.00	3850	25	130	49	0	120	46	0	11470	96	6906
38+75.00	3875	25	136	49	0	123	46	0	11593	96	6983
39+00.00	3900	25	138	48	0	127	45	0	11720	96	7065
39+25.00	3925	25	116	48	1	118	45	0	11837	97	7137
39+50.00	3950	25	122	48	0	110	44	0	11948	97	7202
39+60.36	3960	10	129	49	1	48	19	0	11996	98	7232
39+75.00	3975	15	135	60	1	72	29	1	12067	98	7273
40+00.00	4000	25	218	95	0	163	72	0	12231	99	7364
40+25.00	4025	25	145	59	1	168	72	0	12399	99	7460
40+50.00	4050	25	121	49	0	123	50	0	12522	100	7533
40+75.00	4075	25	113	49	0	108	46	0	12630	100	7596
41+00.00	4100	25	98	48	9	98	45	4	12728	104	7644
41+25.00	4125	25	198	101	0	137	69	4	12865	109	7707
41+50.00	4150	25	208	84	0	188	86	0	13053	109	7809
41+75.00	4175	25	144	53	0	163	64	0	13216	109	7908
42+00.00	4200	25	132	49	0	128	48	0	13344	109	7989
42+14.43	4214	14	141	49	0	73	26	0	13417	109	8035
42+25.00	4225	11	141	49	0	55	19	0	13472	109	8071
42+50.00	4250	25	134	49	0	127	46	0	13599	109	8153
42+75.00	4275	25	144	49	0	129	46	0	13728	109	8236
42+86.93	4287	12	167	49	0	69	22	0	13797	109	8283
43+00.00	4300	13	151	49	0	77	24	0	13873	109	8336
43+25.00	4325	25	166	49	0	147	46	0	14020	109	8438
43+50.00	4350	25	148	49	0	145	46	0	14166	109	8538
43+75.00	4375	25	78	49	0	105	46	0	14270	109	8597

BELOIT ROAD

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.11	MASS ORDINATE
46+30.00	4630	0	86	49	0	0	0	0	14270	109	8597
46+50.00	4650	20	152	49	0	88	36	0	14358	109	8648
46+64.76	4665	15	155	49	0	84	27	0	14442	109	8705
46+75.00	4675	10	156	49	0	59	19	0	14501	109	8746
47+00.00	4700	25	130	49	1	132	46	0	14634	109	8832
47+25.00	4725	25	126	49	1	119	46	1	14752	111	8904
47+50.00	4750	25	140	49	0	123	46	0	14875	111	8981
47+75.00	4775	25	116	49	1	119	46	0	14994	112	9054
48+00.00	4800	25	128	49	1	113	46	1	15107	113	9120
48+25.00	4825	25	125	49	1	117	46	1	15224	114	9191
48+50.00	4850	25	145	49	0	125	46	0	15349	114	9270
48+75.00	4875	25	125	49	0	125	46	0	15474	114	9349
49+00.00	4900	25	128	49	0	117	46	0	15591	114	9421
49+25.00	4925	25	136	49	0	122	46	0	15713	114	9497
49+45.00	4950	25	124	49	0	120	46	0	15834	114	9572
						15834	6147	103			



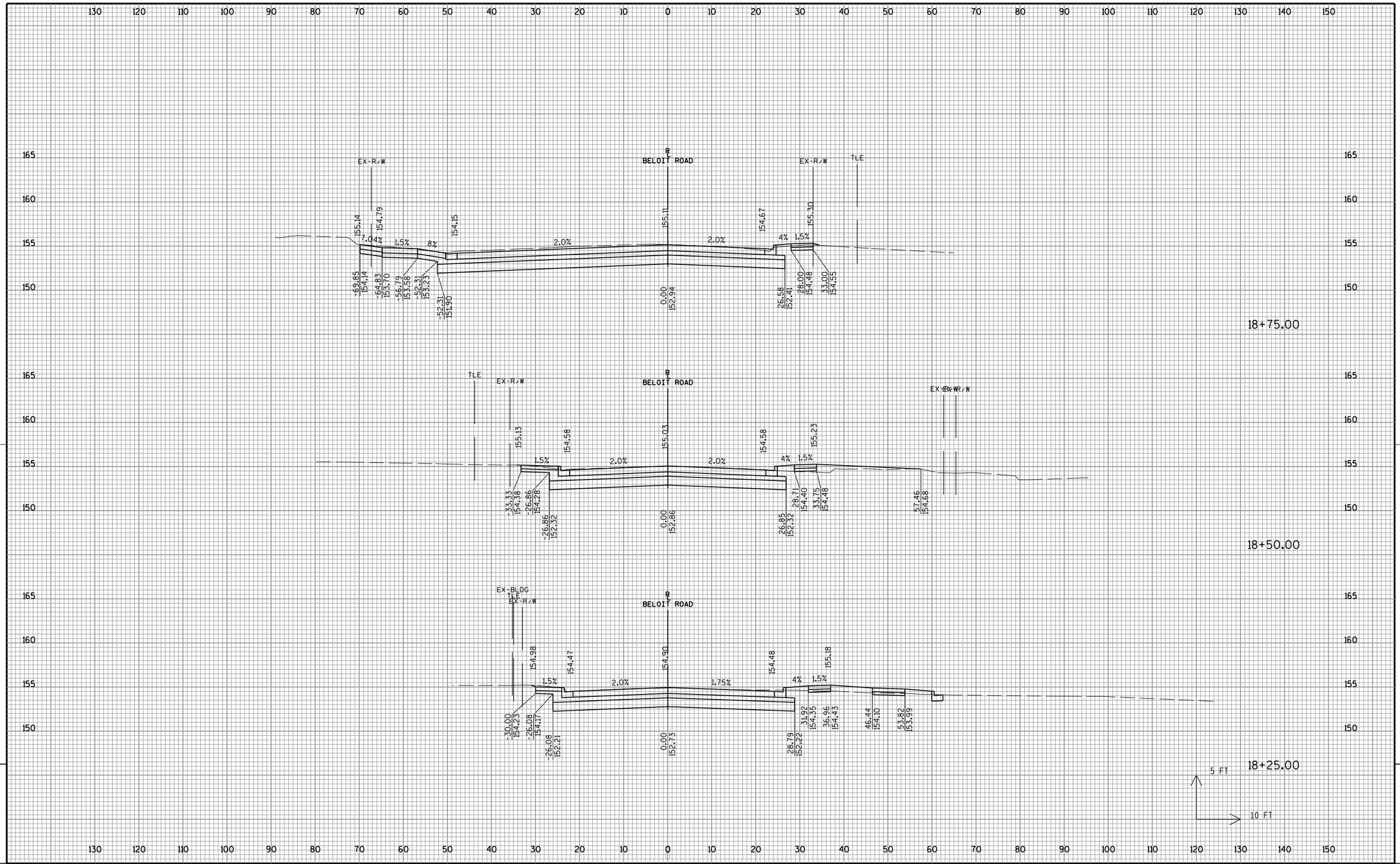
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PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 317	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



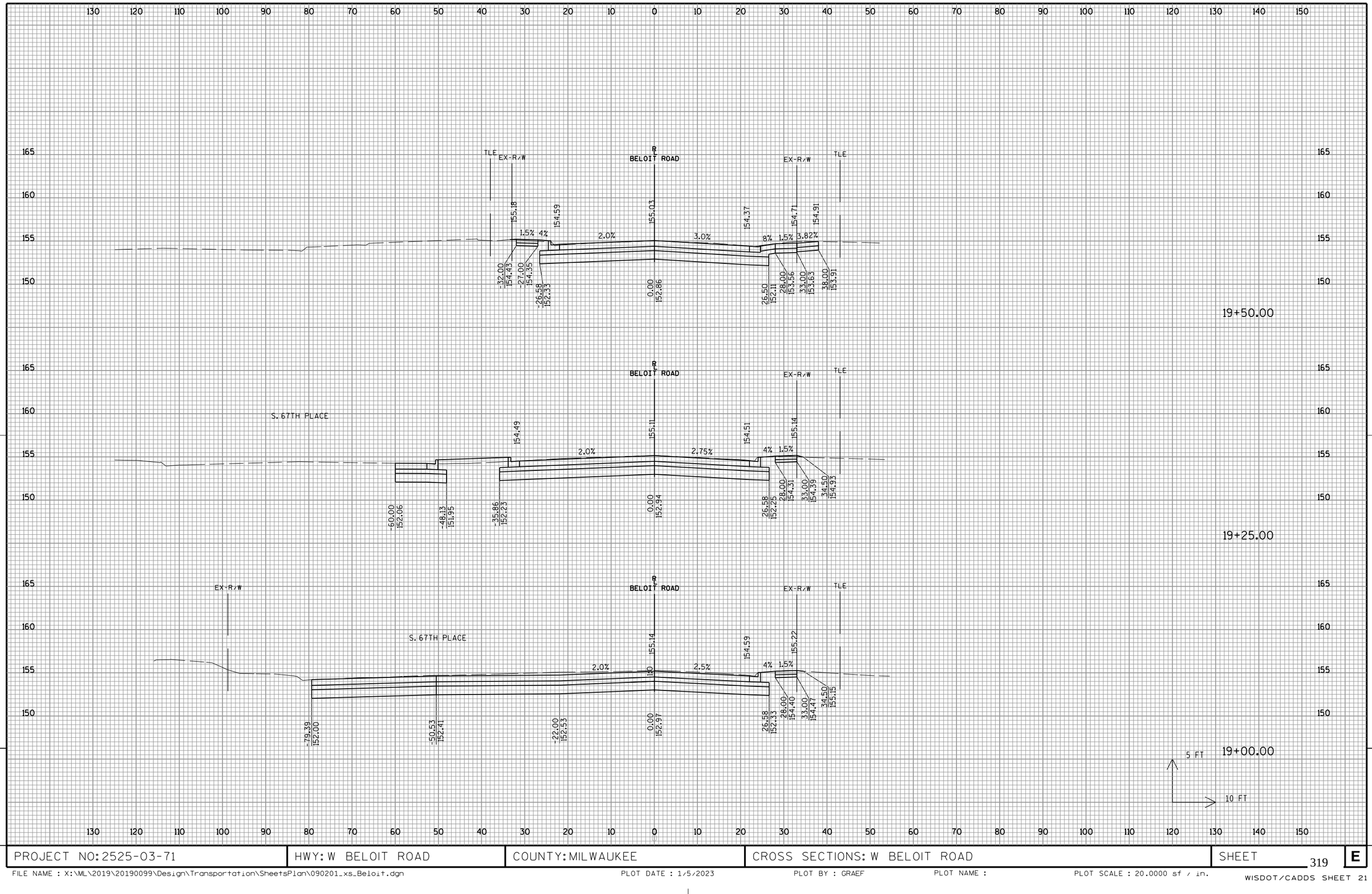
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PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 318	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



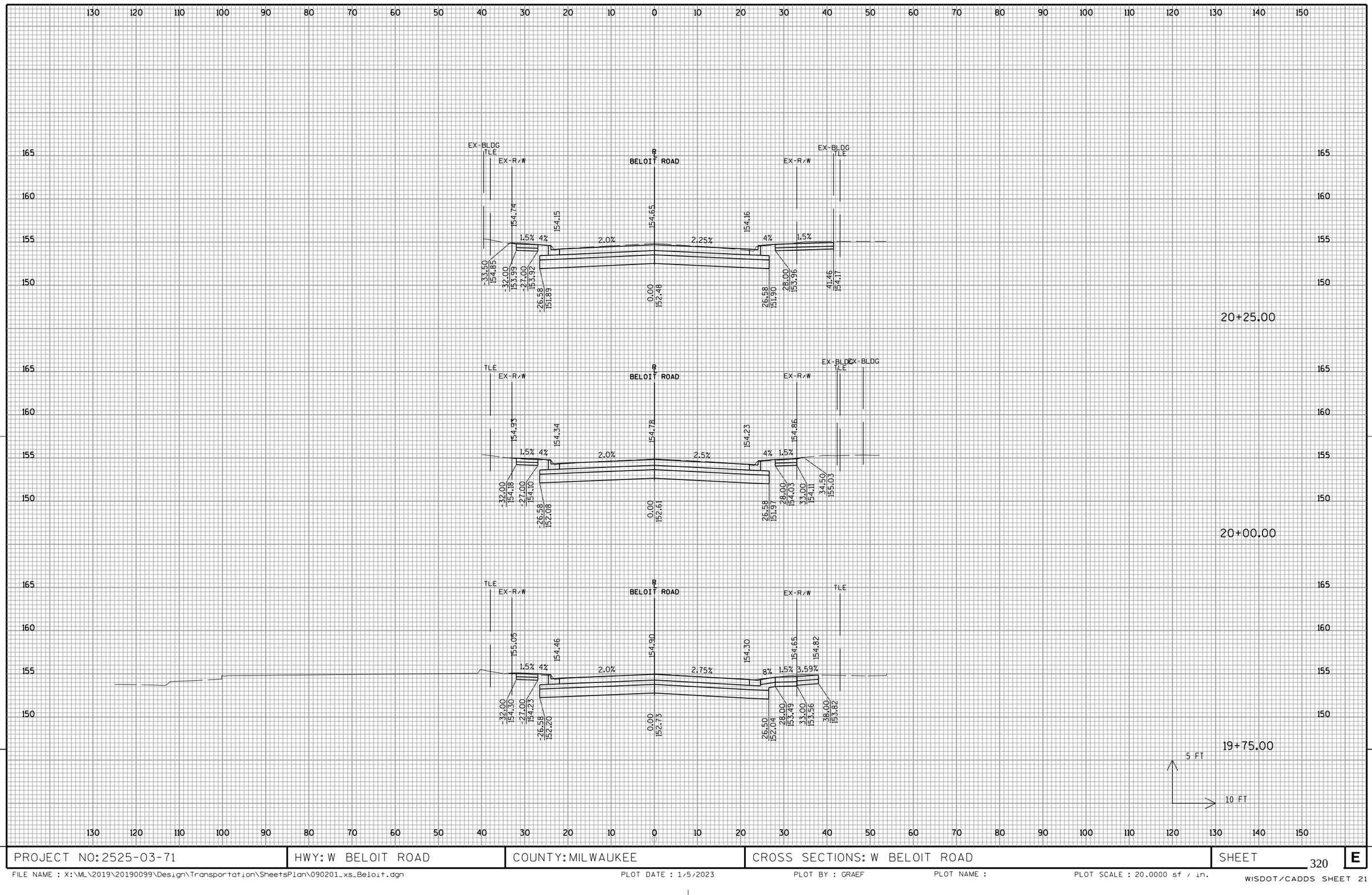
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PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 319	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



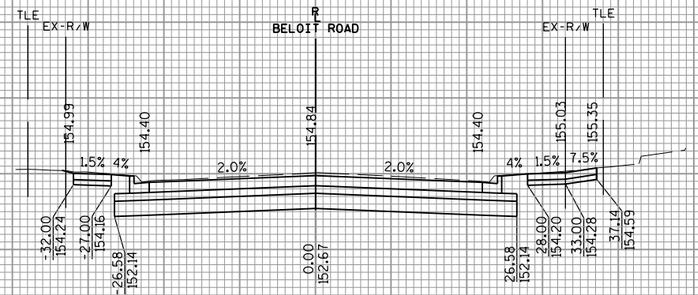
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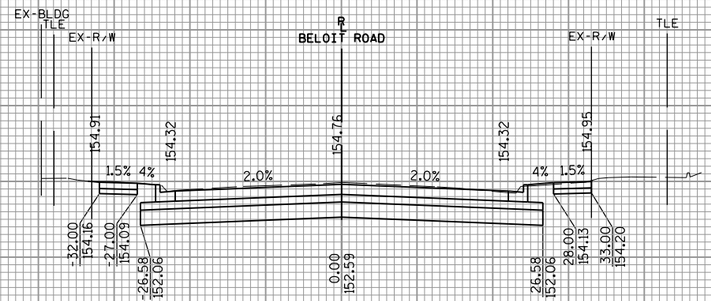
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 320	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

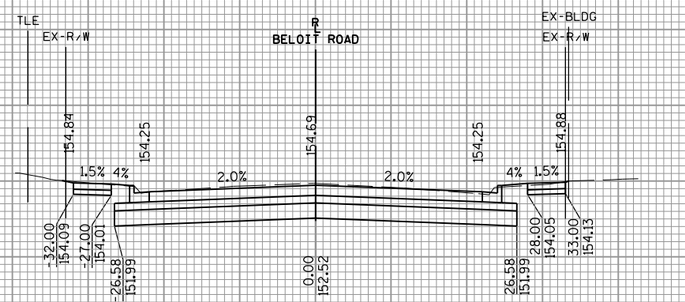
WISDOT/CADDS SHEET 21



21+00.00



20+75.00



20+50.00

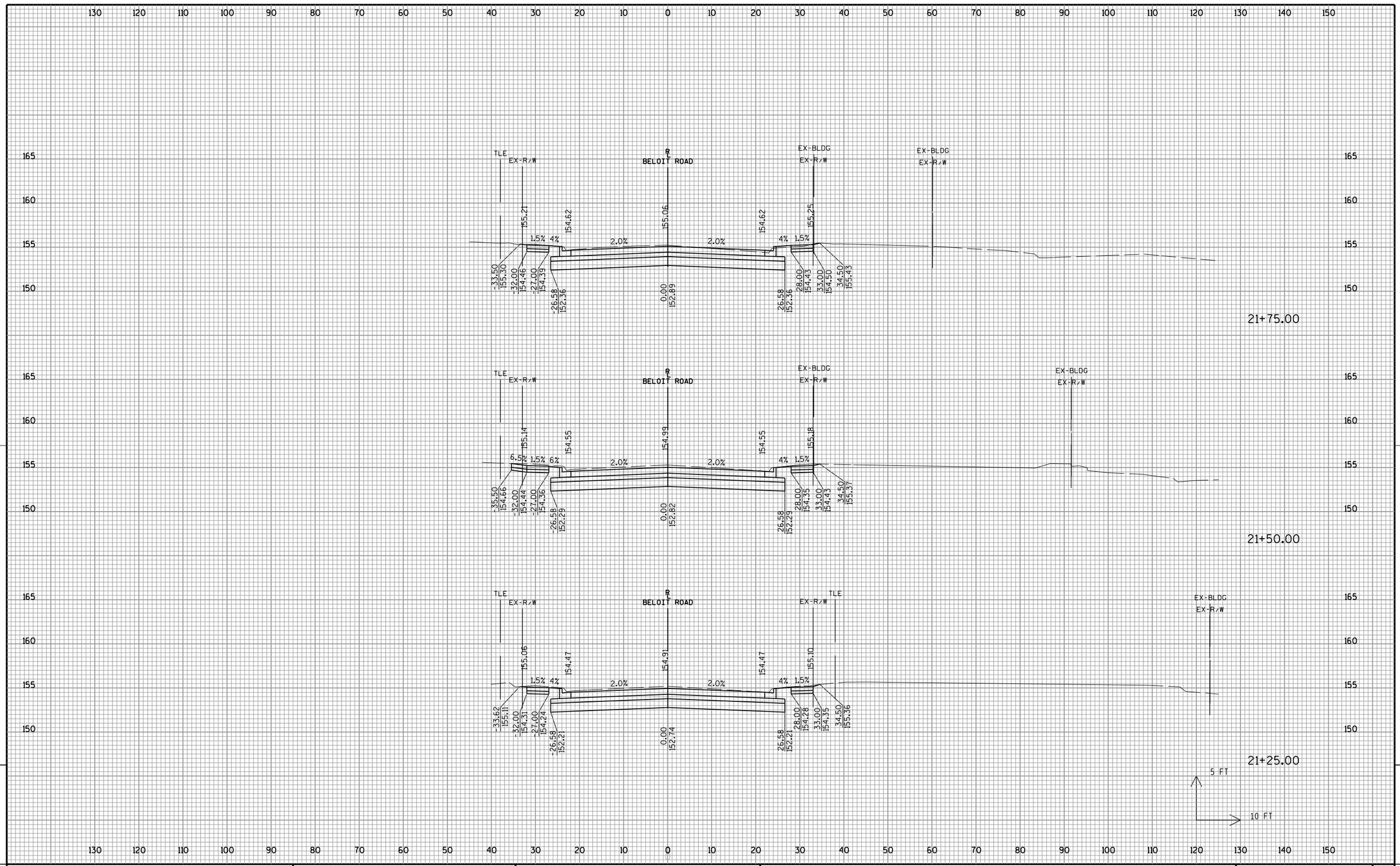
5 FT

10 FT

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 321	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



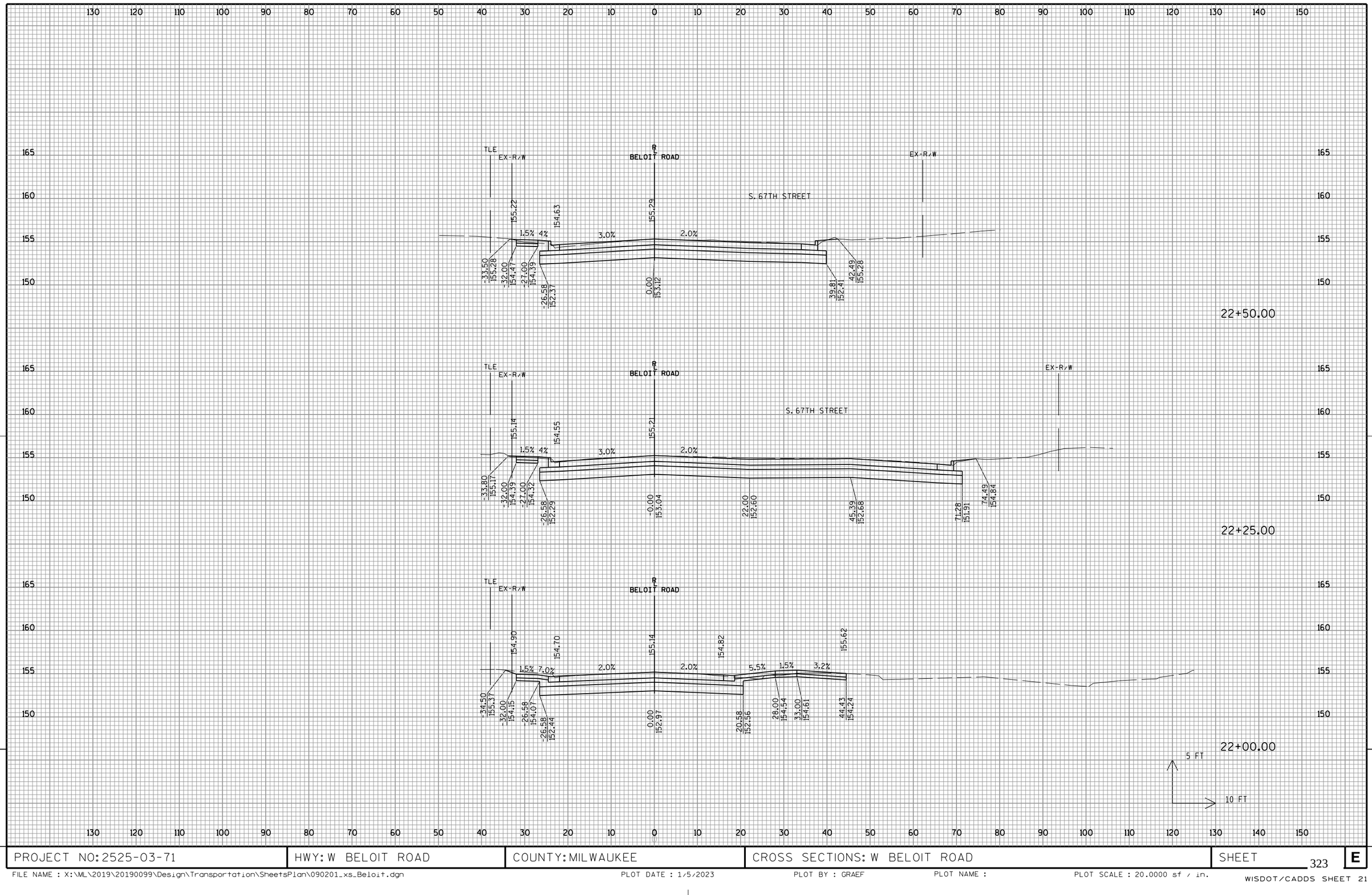
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PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 322	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



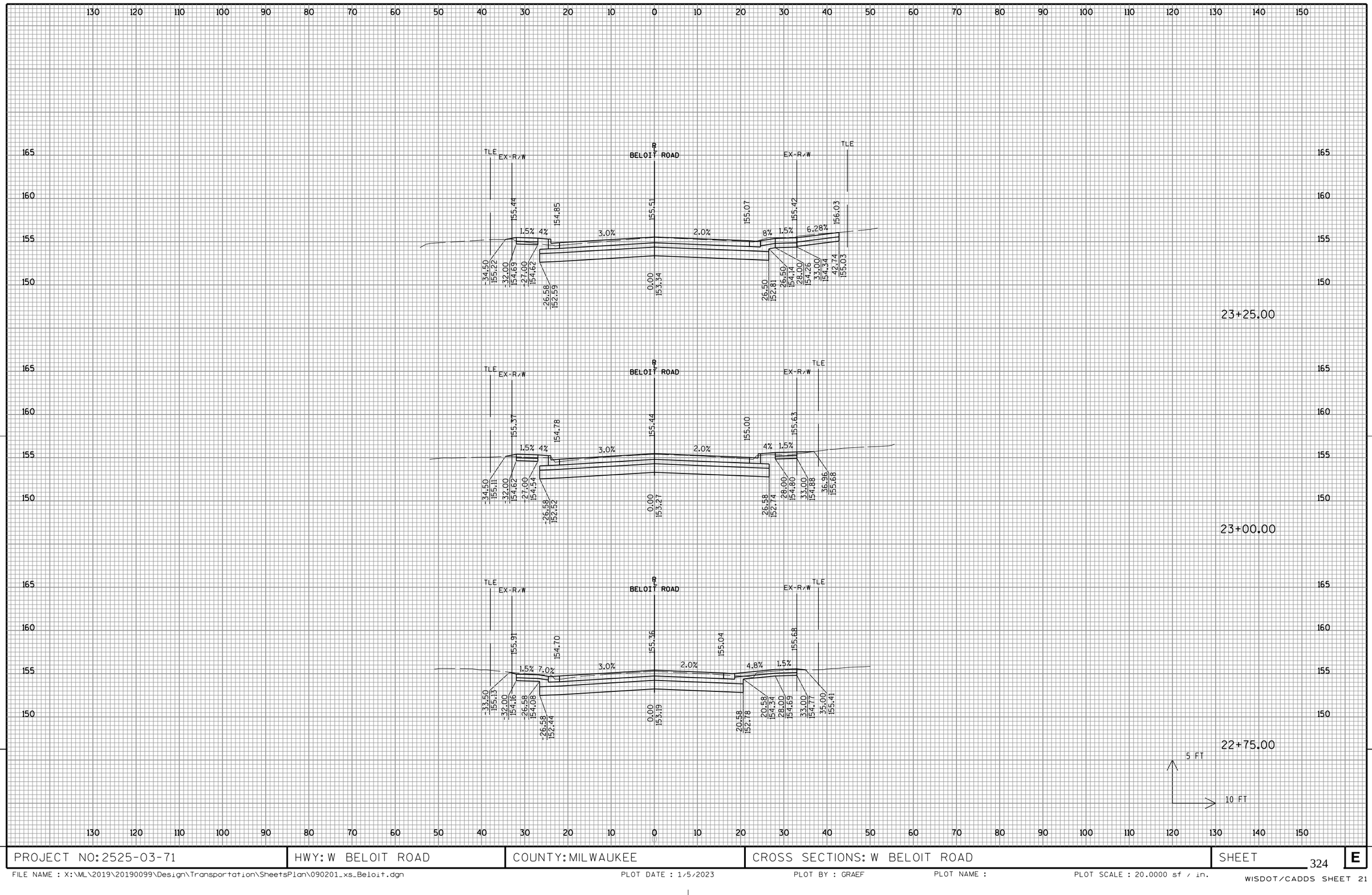
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PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 323	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

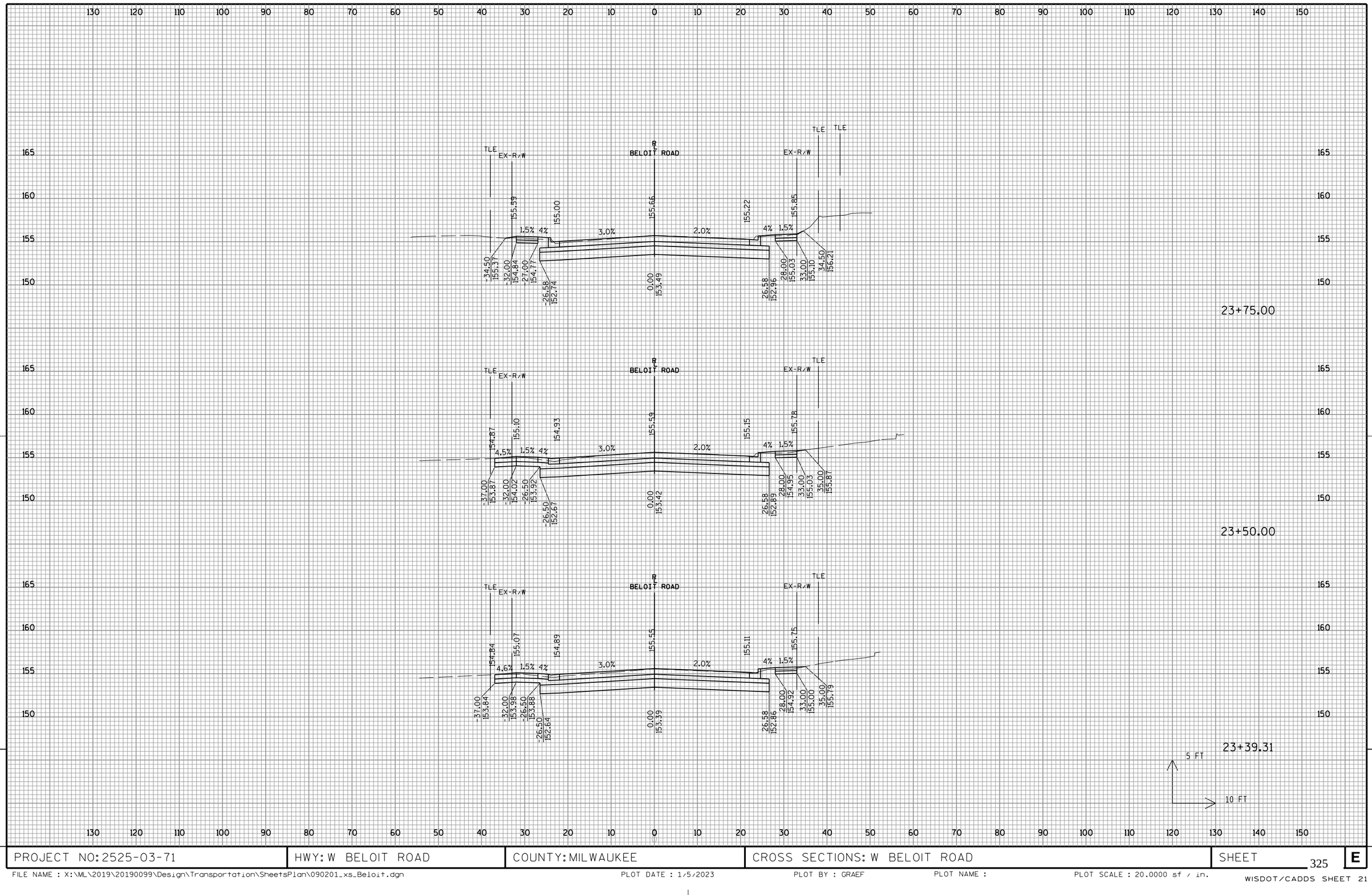
WISDOT/CADDS SHEET 21



9

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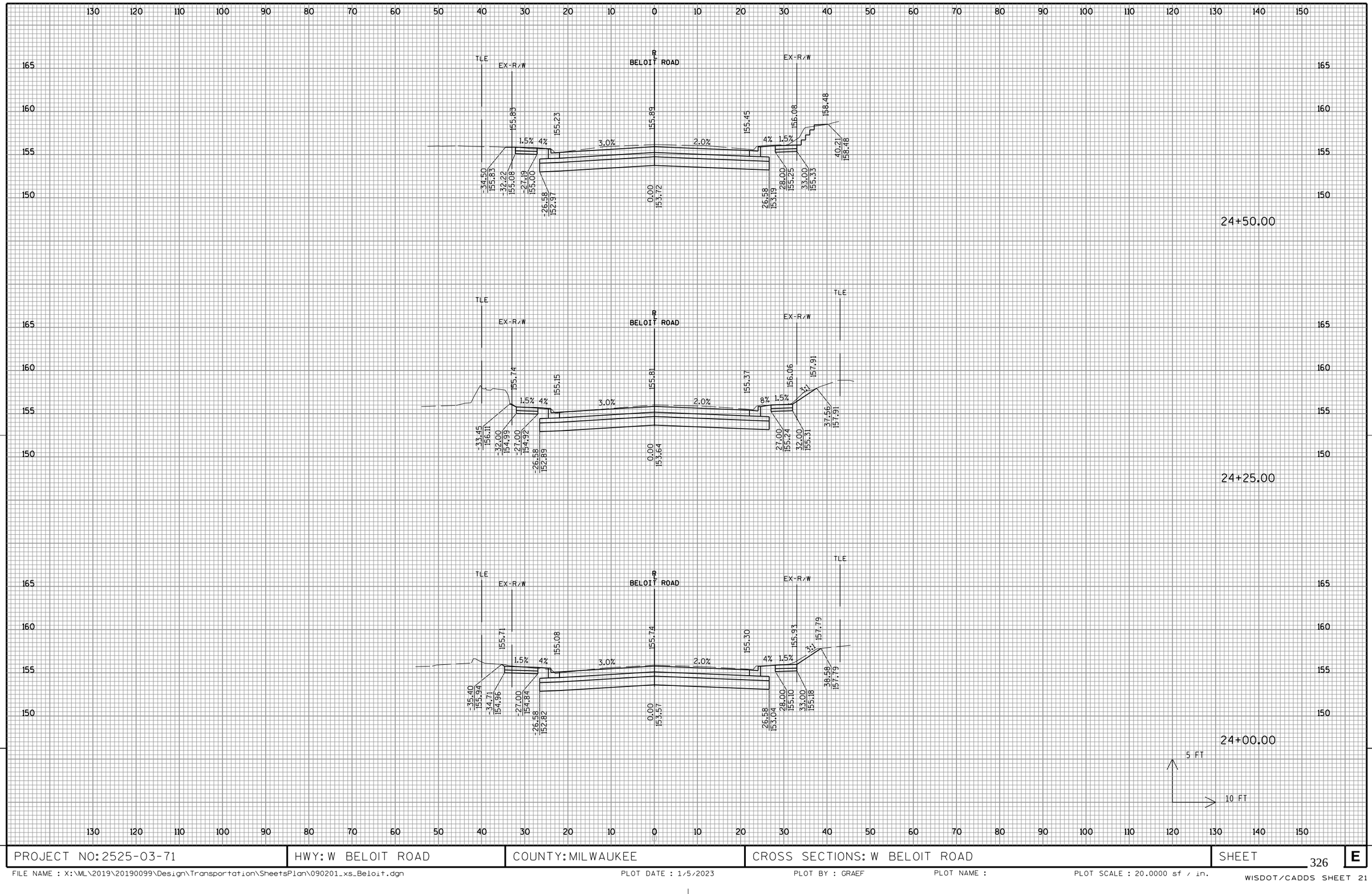
PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 324	E



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 325	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

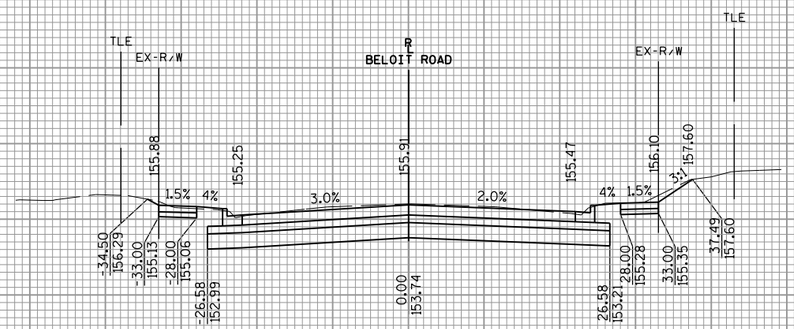
WISDOT/CADDS SHEET 21



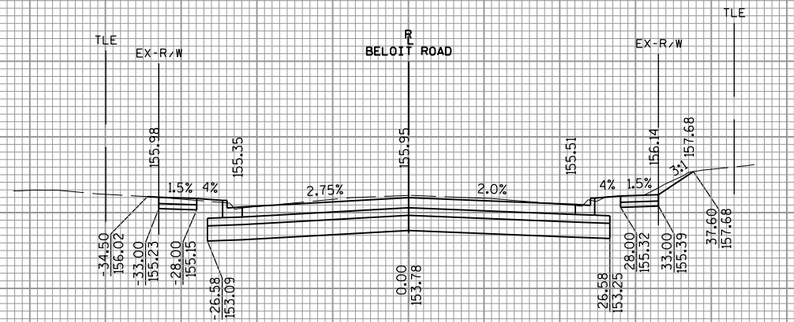
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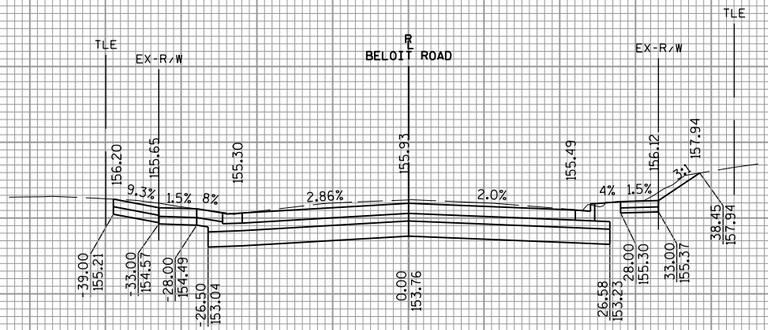
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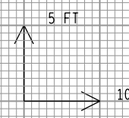
25+00.00



24+75.00



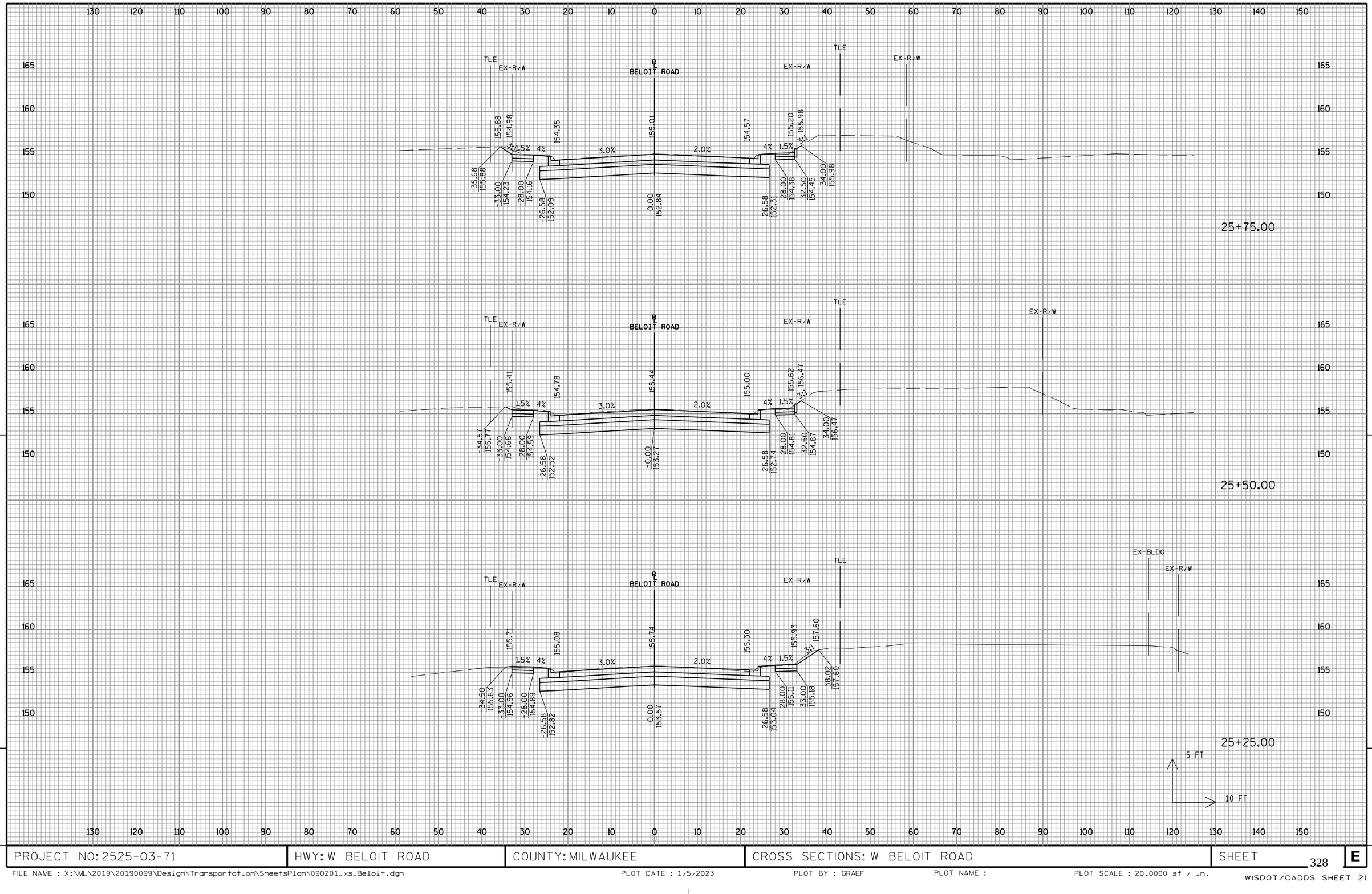
24+64.17



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 327	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21

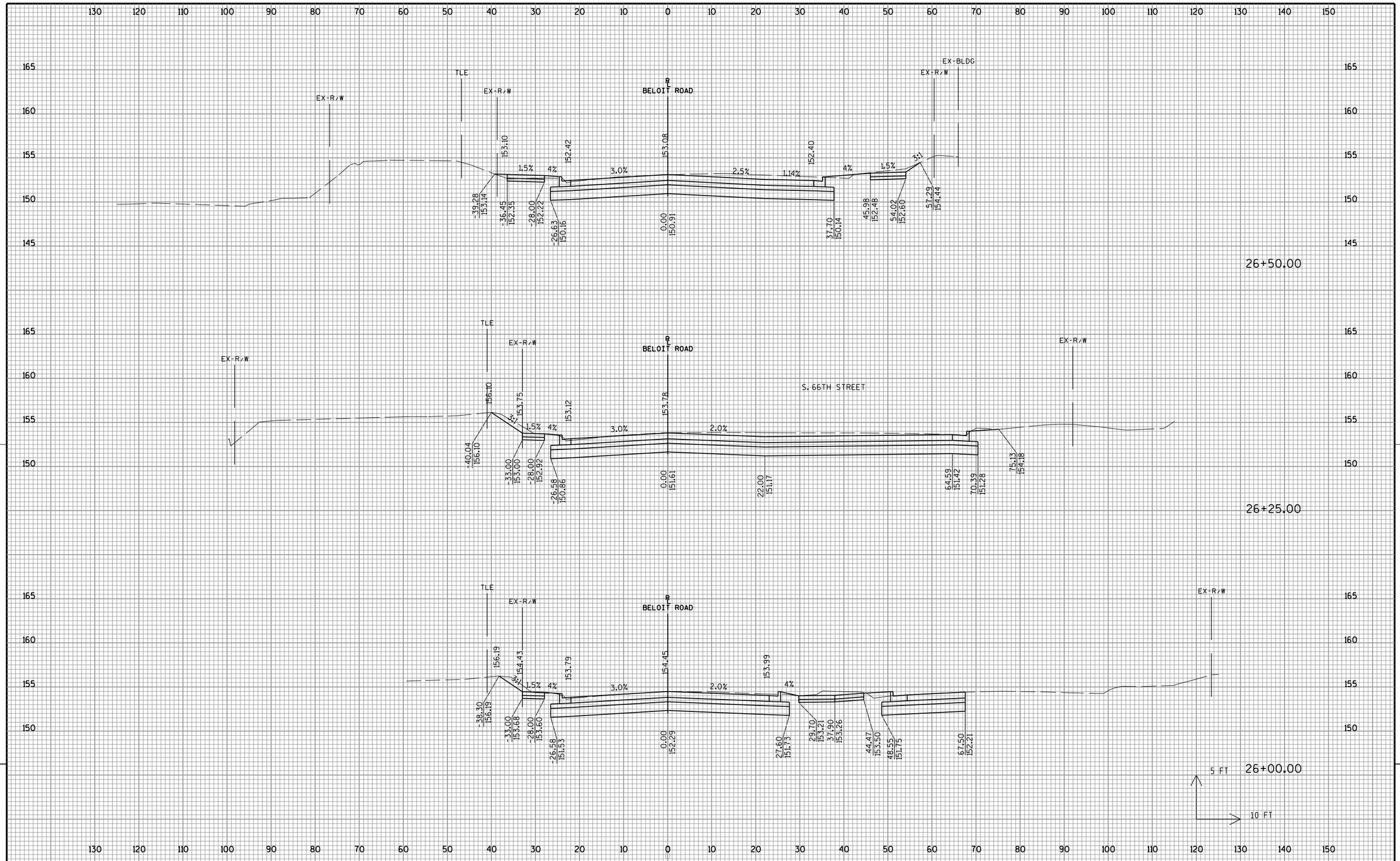


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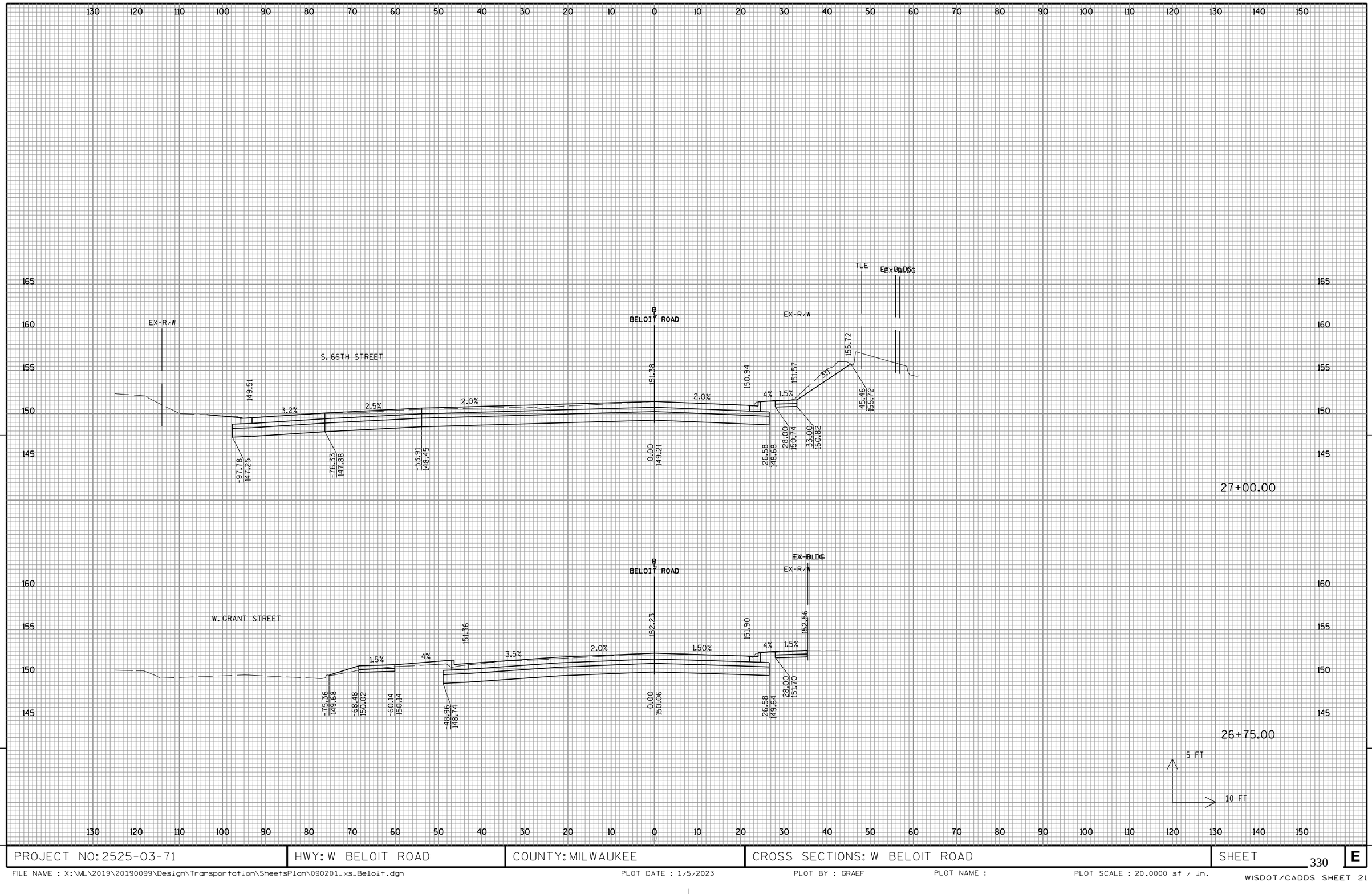
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 328	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn
PLOT DATE : 1/5/2023
PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 20.0000 sf / in.
WISDOT/CADDS SHEET 21



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 329	E

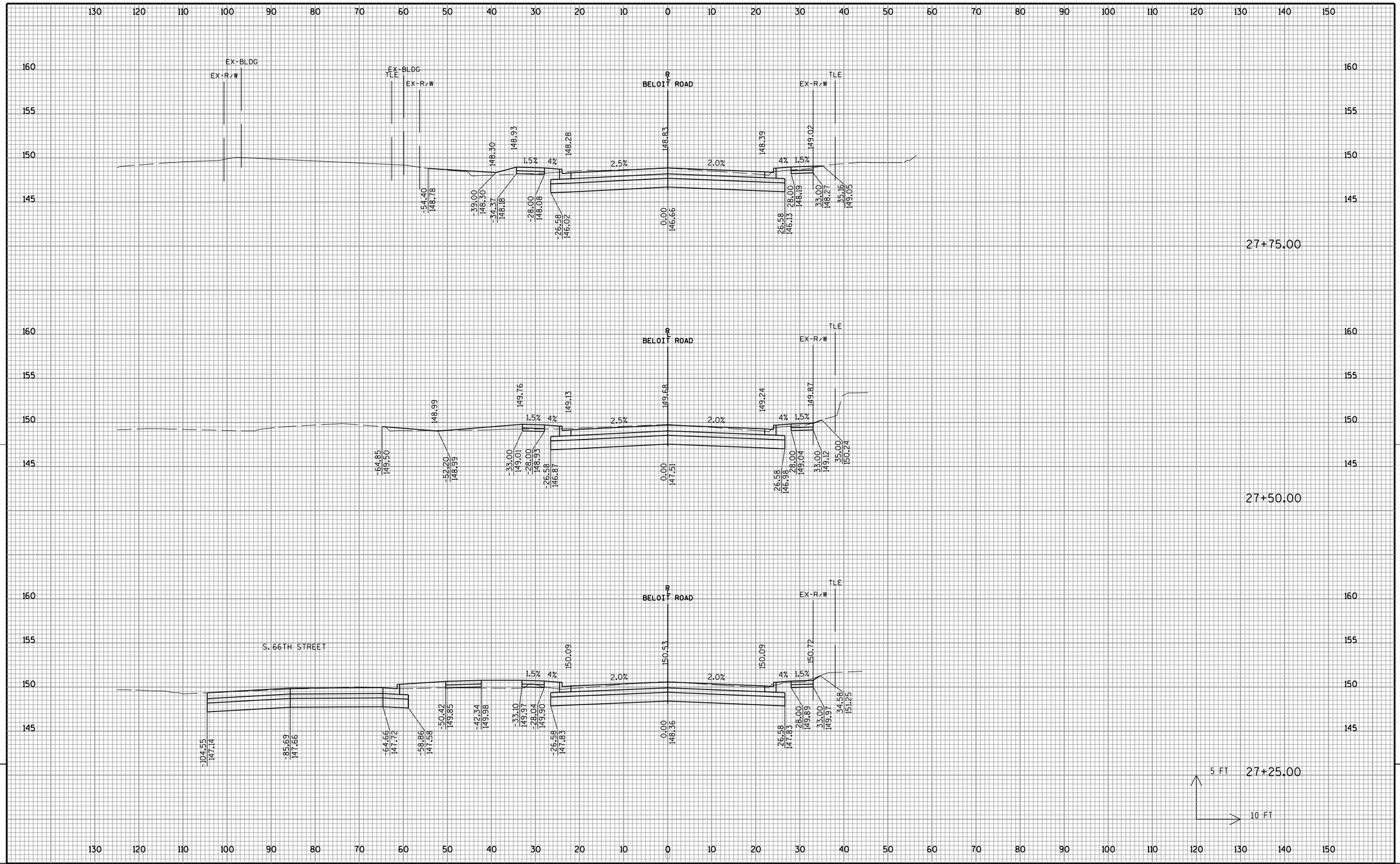
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PLOT DATE : 1/5/2023
PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 20.0000 sf / in.
WISDOT/CADDS SHEET 21



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 330	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



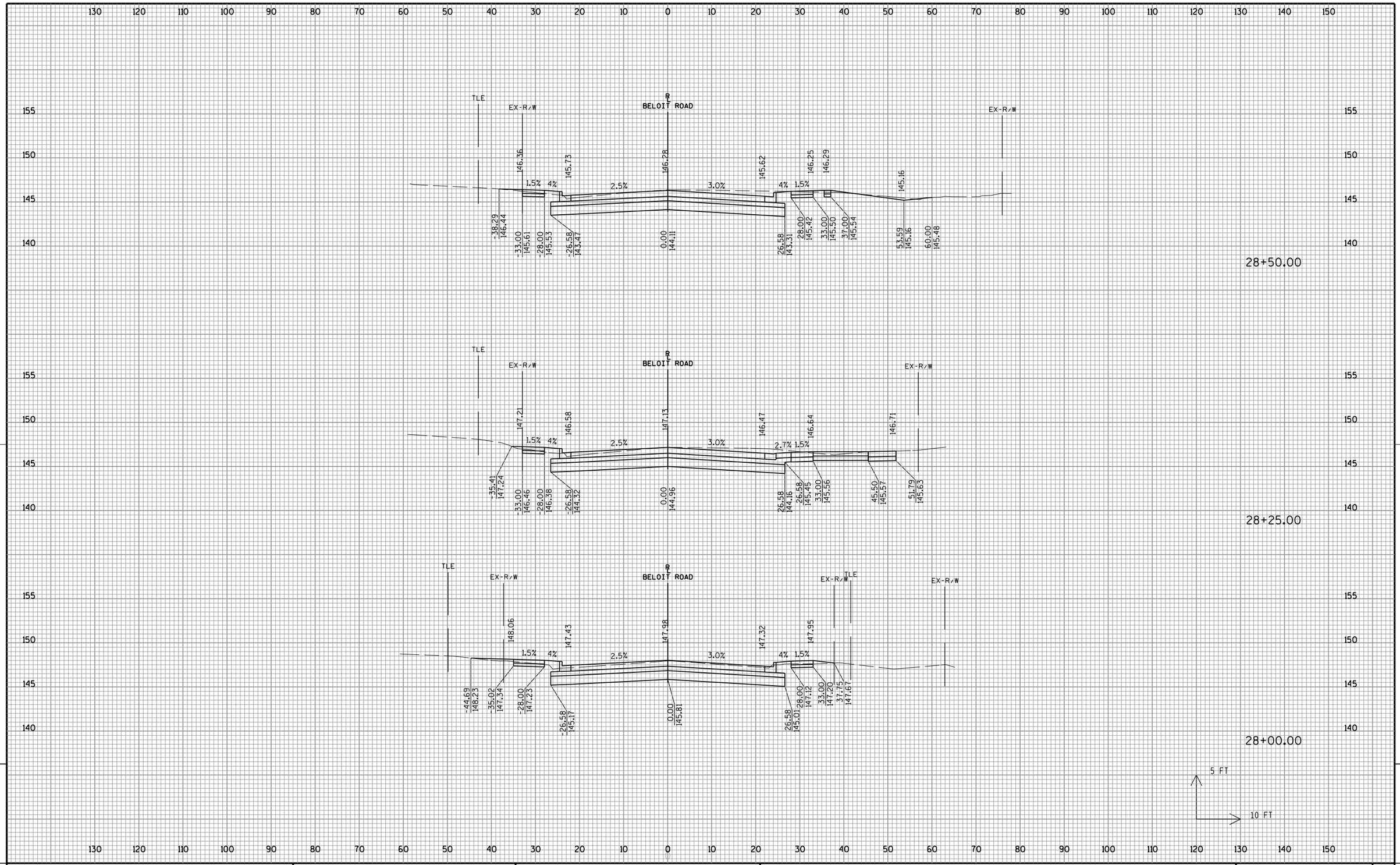
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PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 331	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

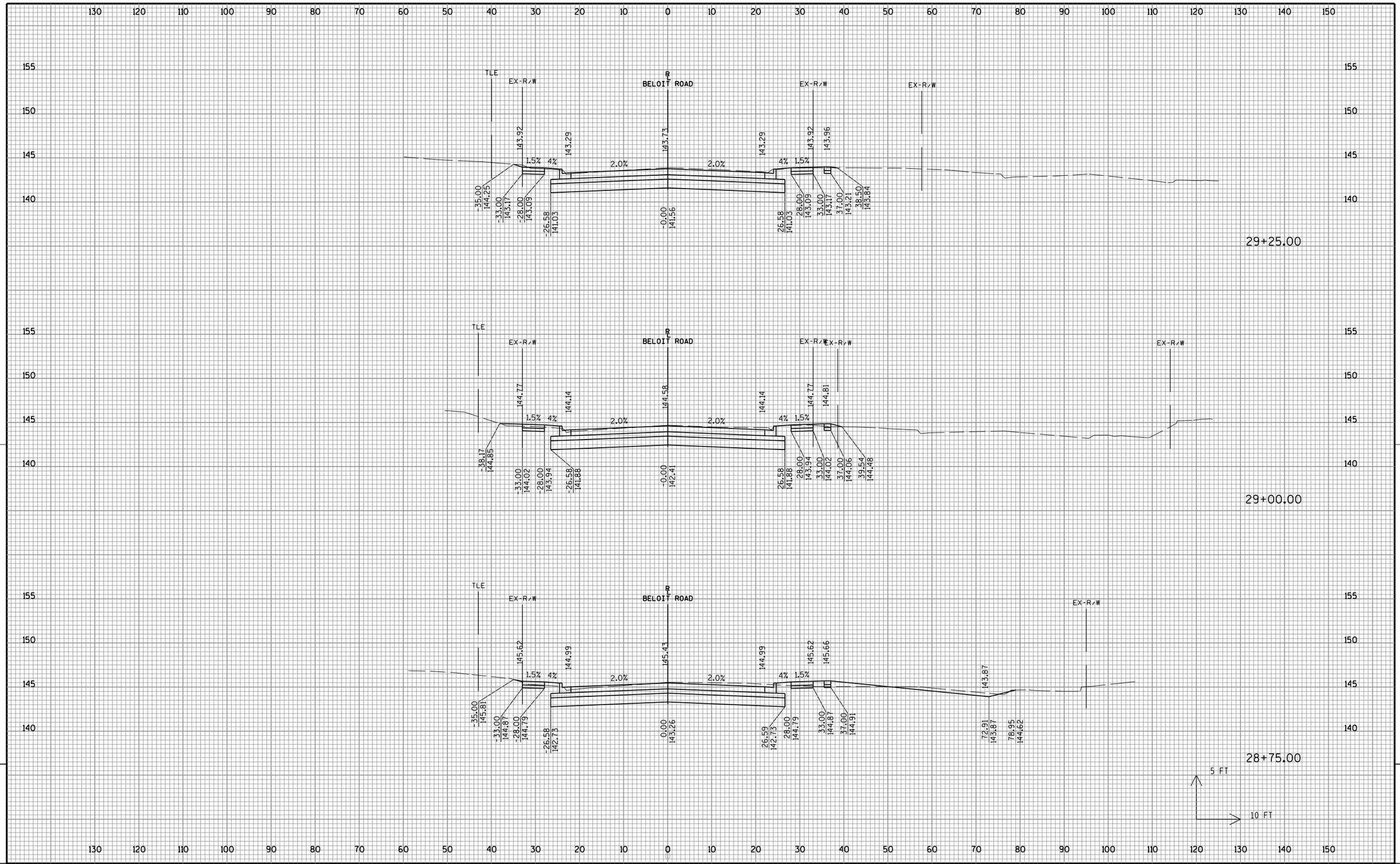
WISDOT/CADDS SHEET 21



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 332	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



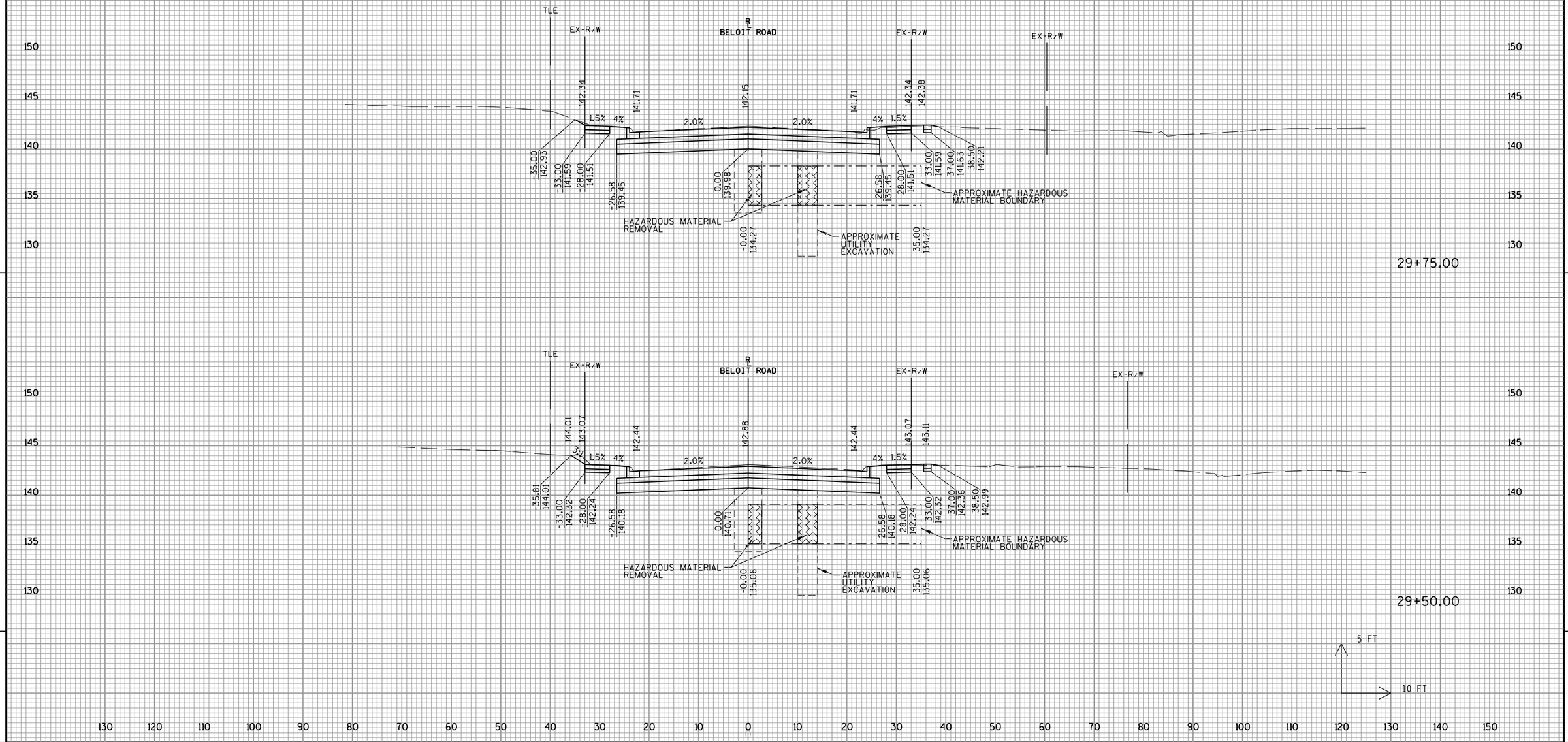
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PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 333	E

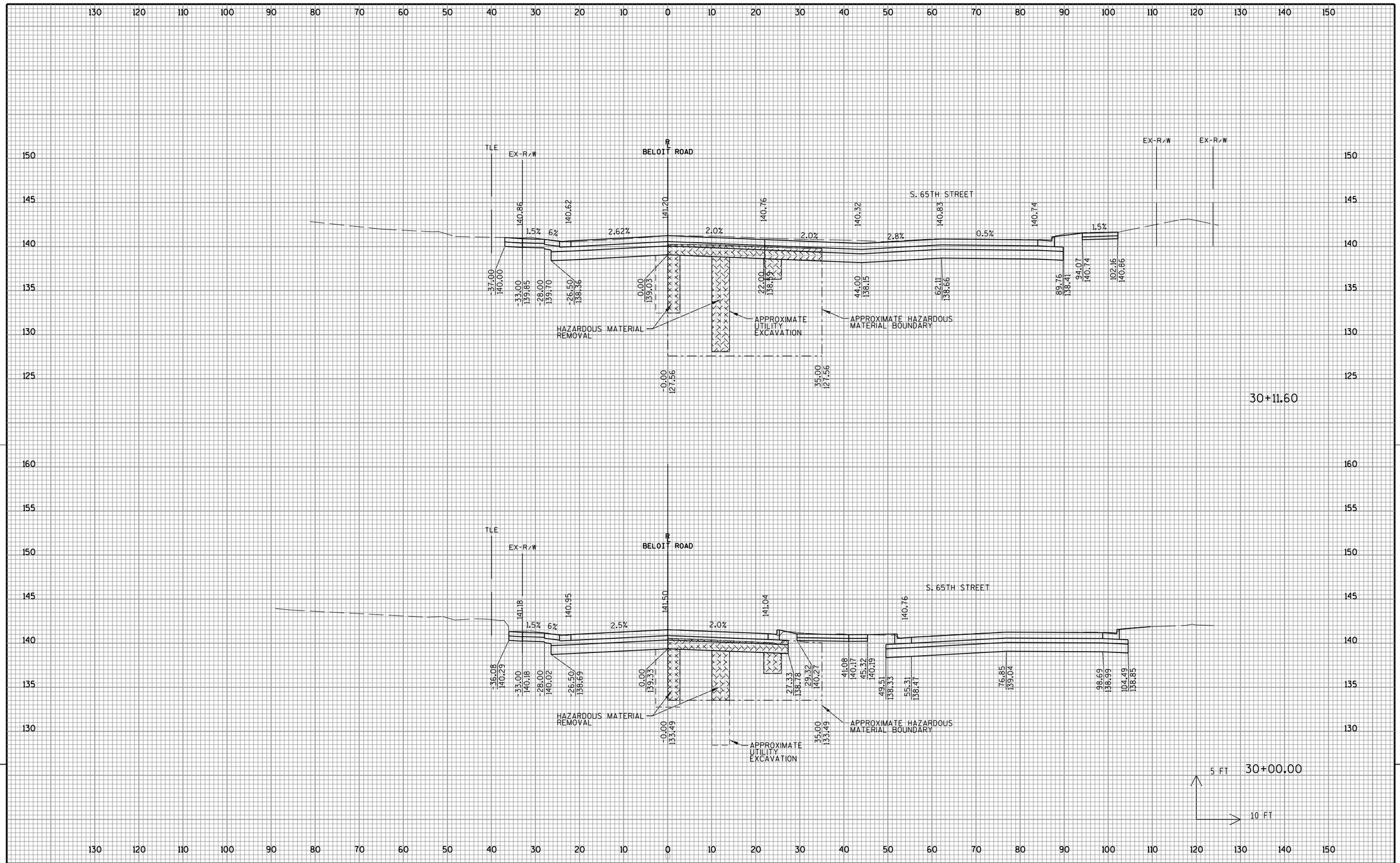
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WISDOT/CADDS SHEET 21



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 334	E

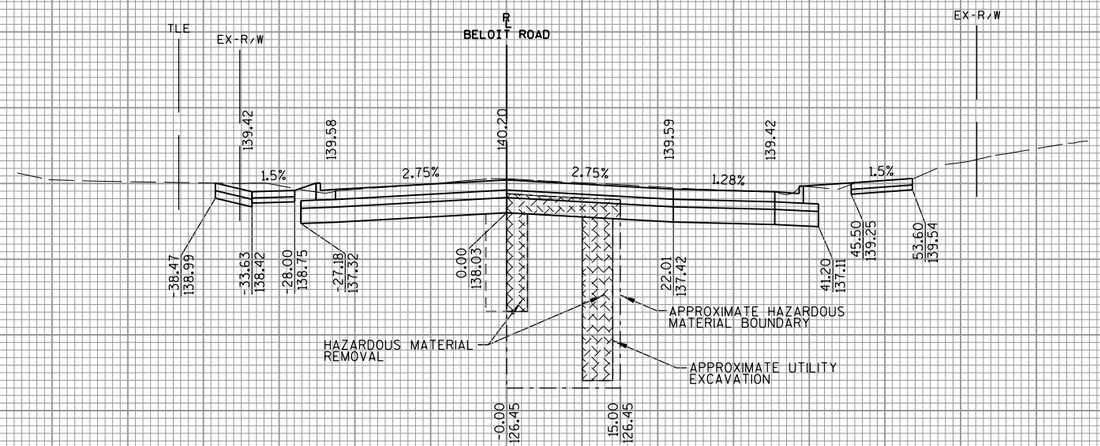
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WISDOT/CADDS SHEET 21

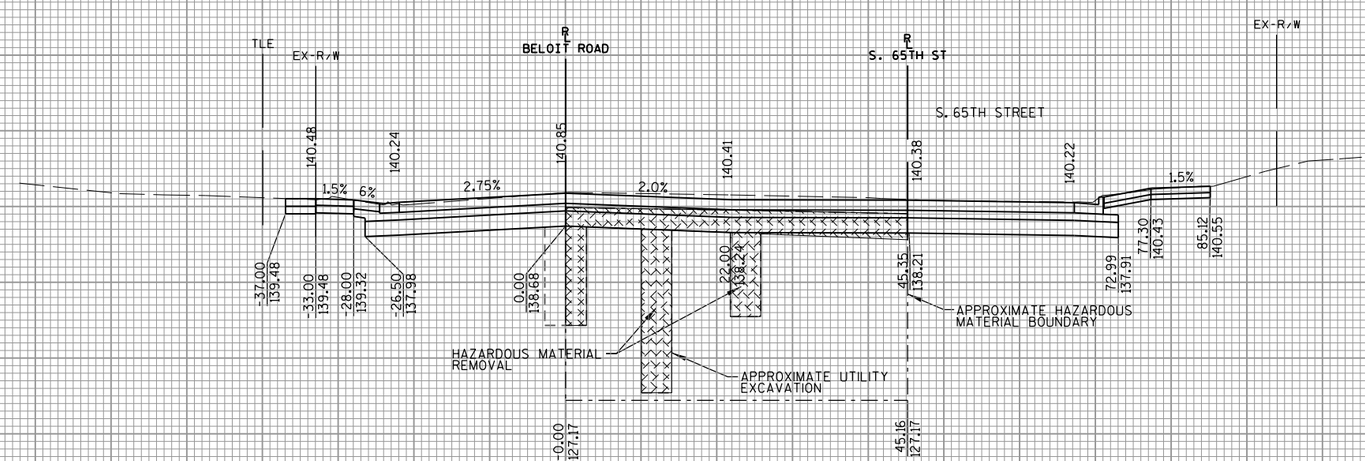


PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 335	E

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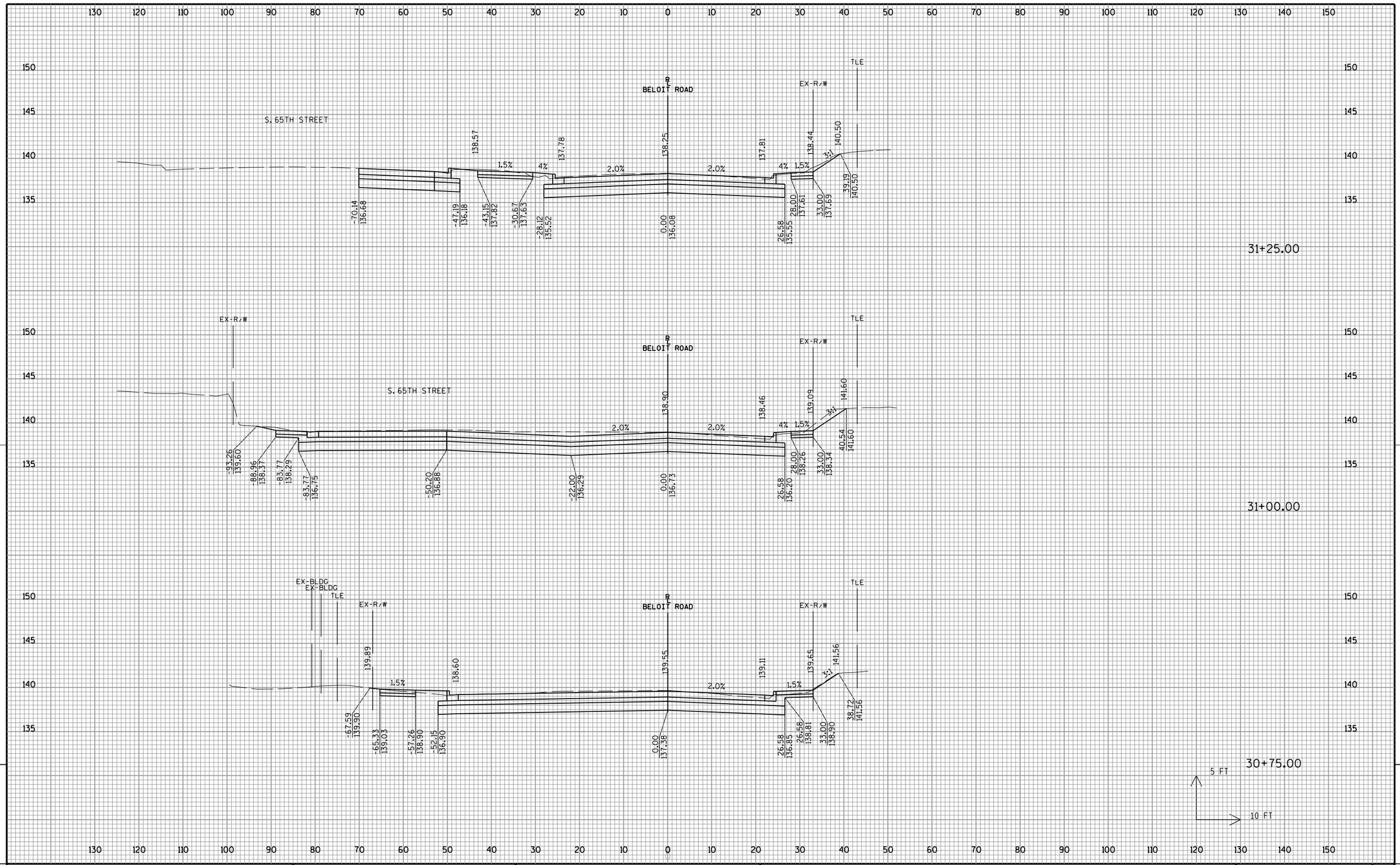
WISDOT/CADDS SHEET 21





PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 336	E

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PLOT NAME :
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WISDOT/CADDS SHEET 21

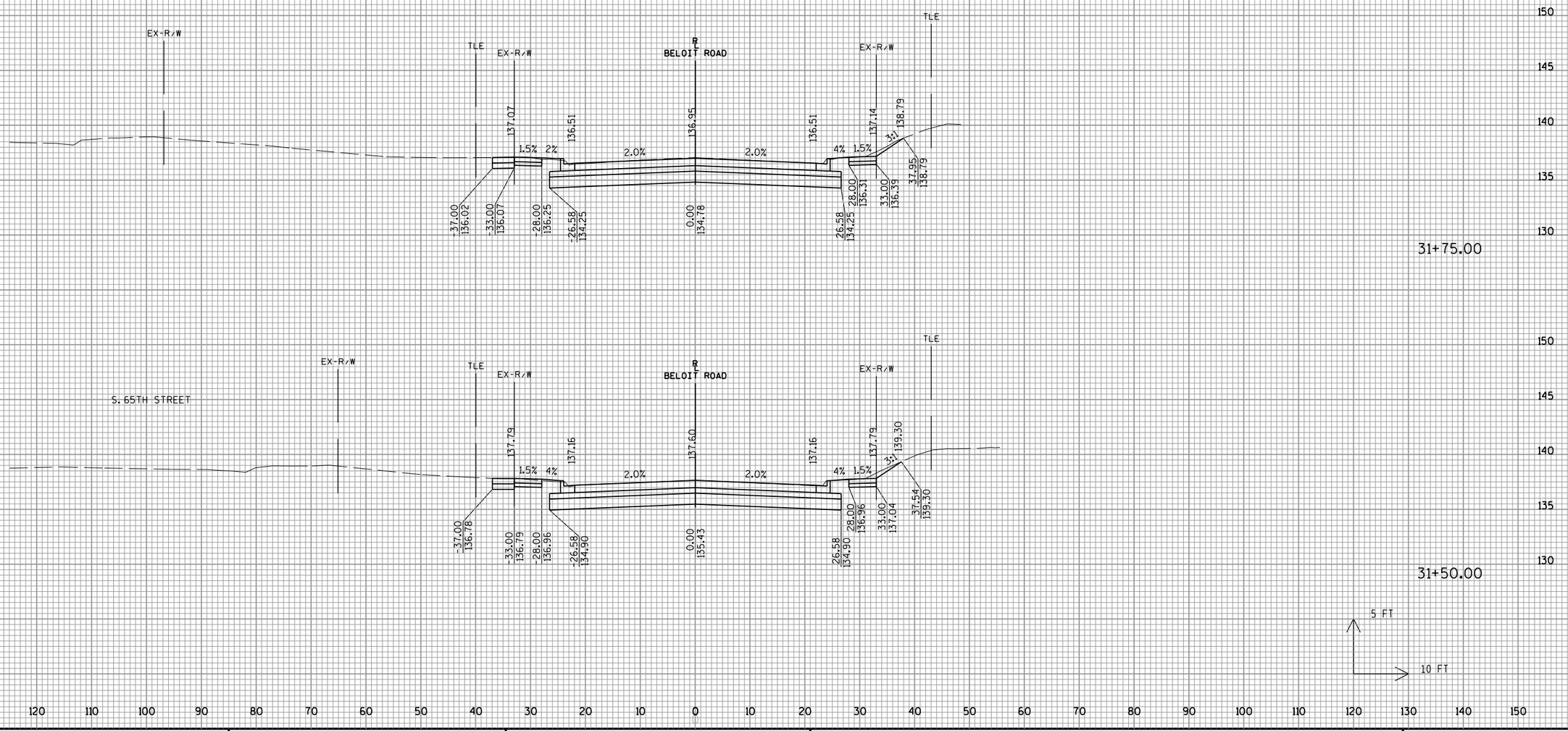


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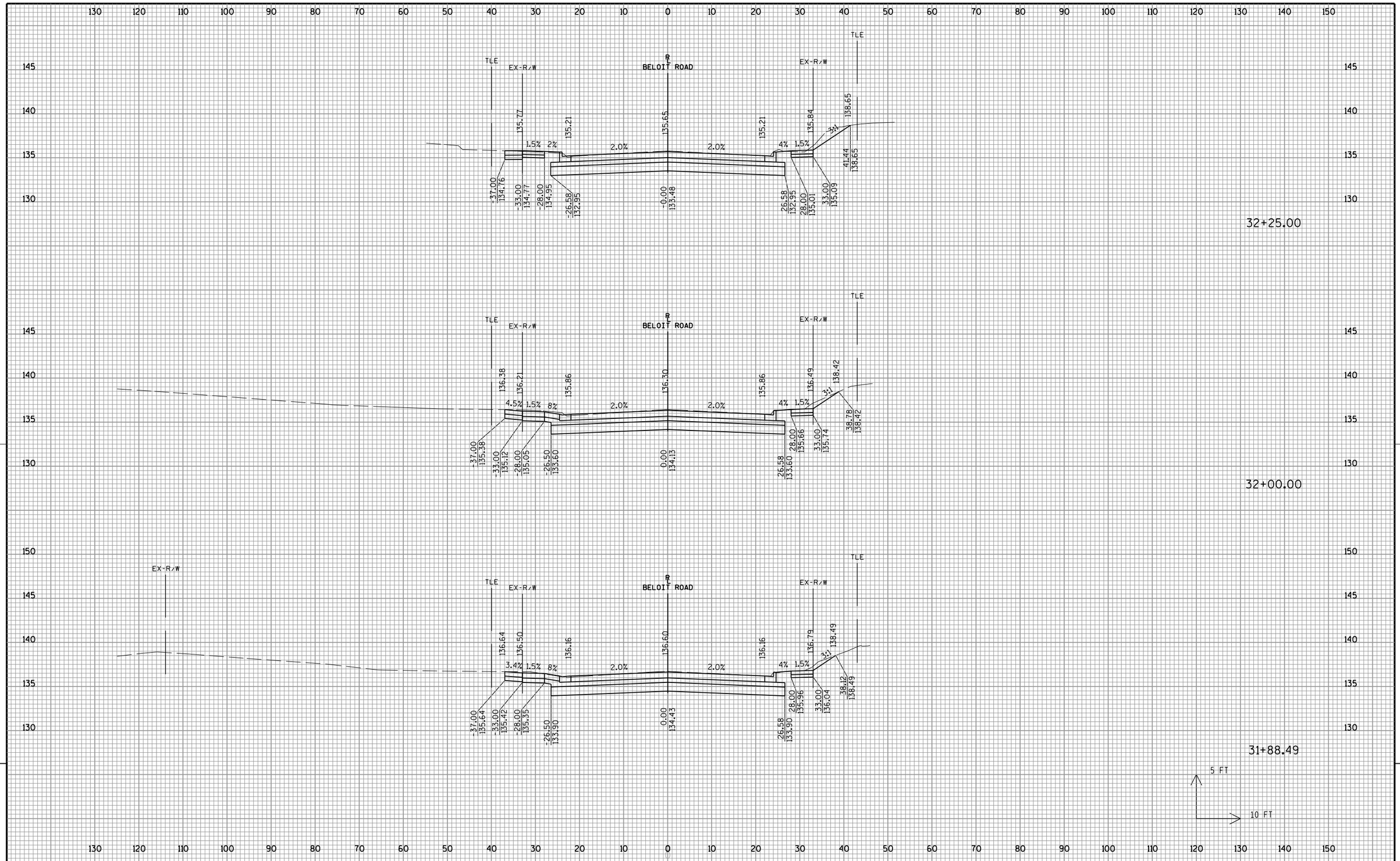
PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 337	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.
WISDOT/CADDS SHEET 21



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 338	E

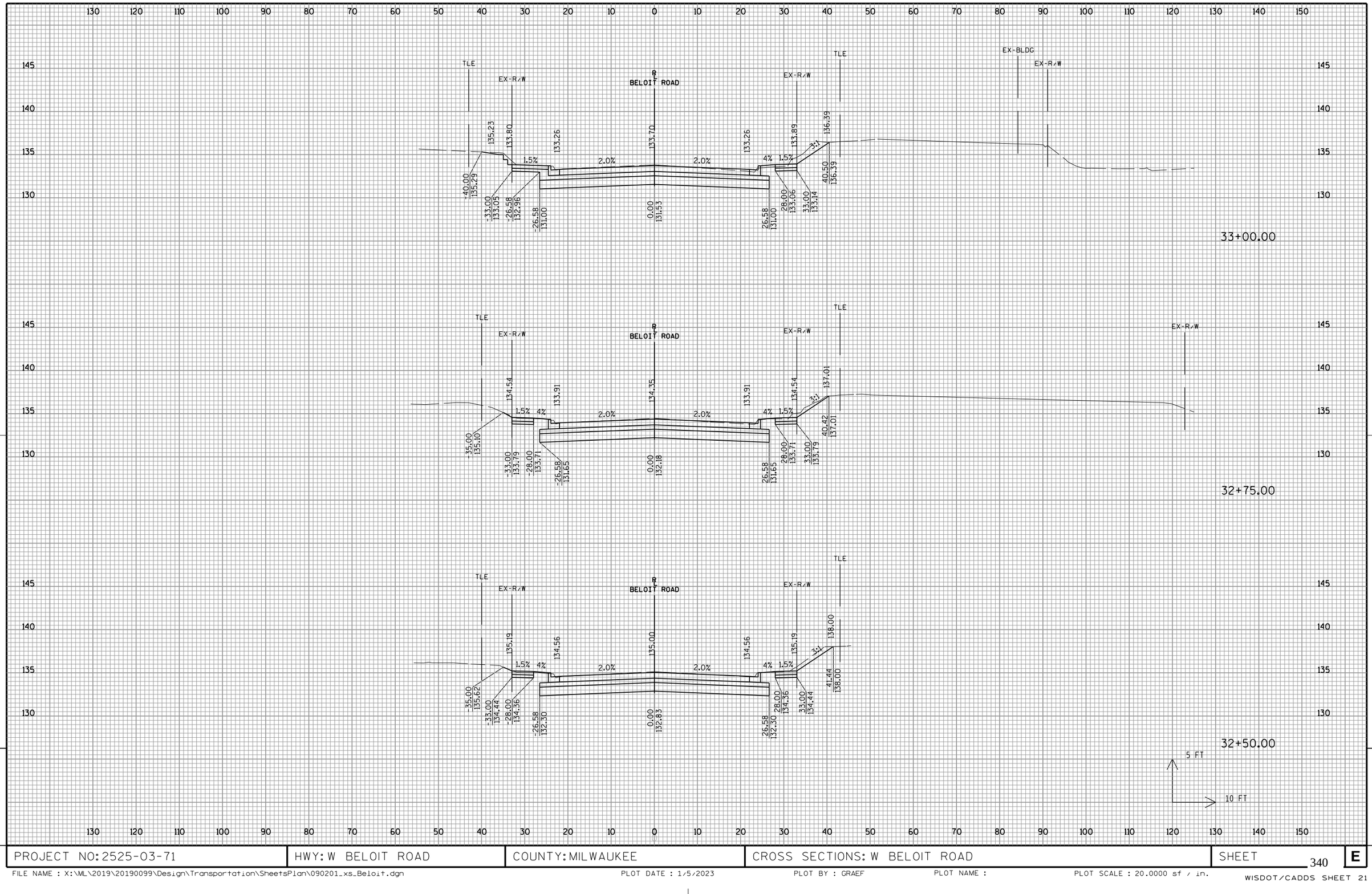
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PLOT DATE : 1/5/2023
PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 20.0000 sf / in.
WISDOT/CADDS SHEET 21



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 339	E

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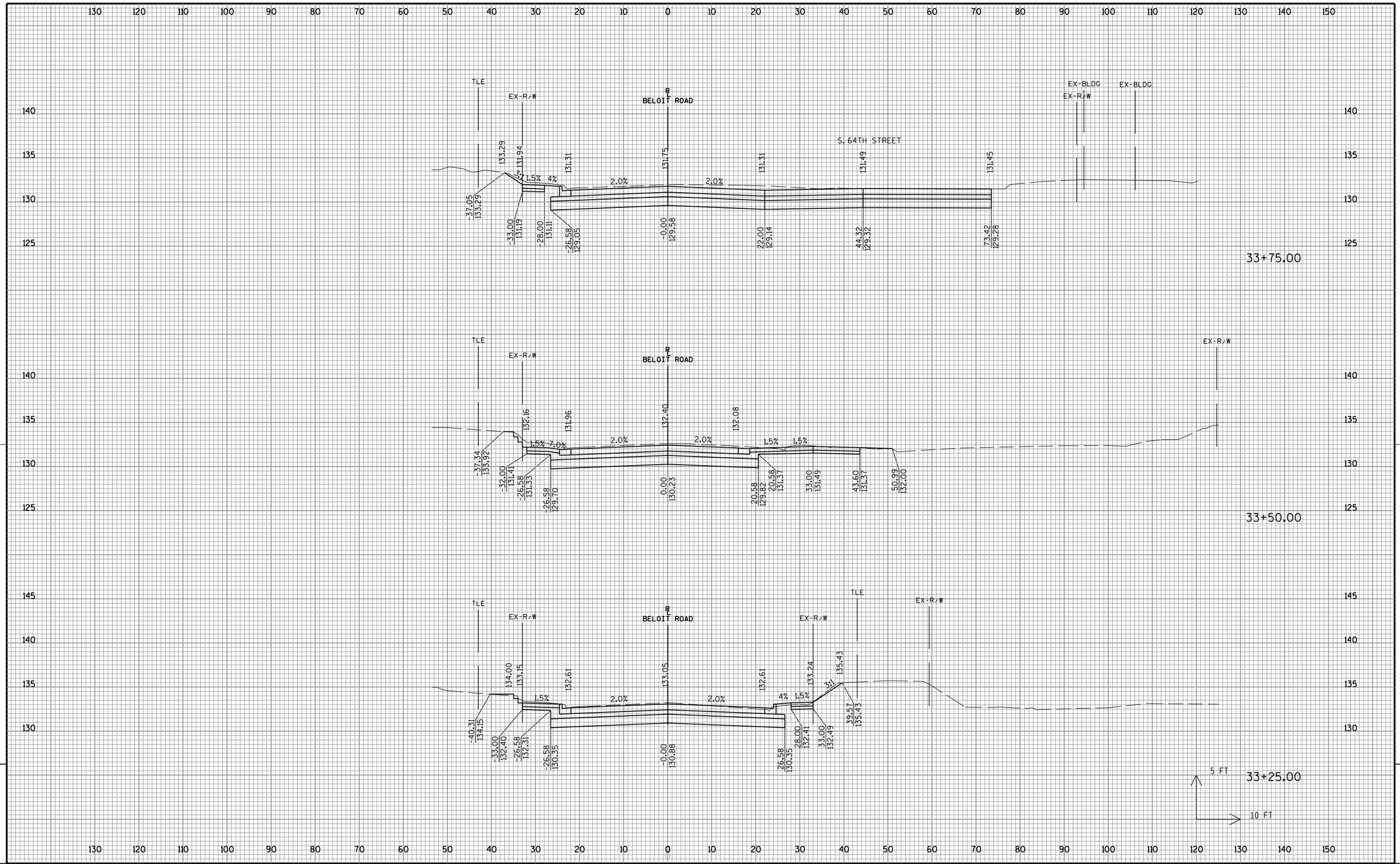
WISDOT/CADDS SHEET 21



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 340	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn | PLOT DATE : 1/5/2023 | PLOT BY : GRAEF | PLOT NAME : | PLOT SCALE : 20.0000 sf / in.

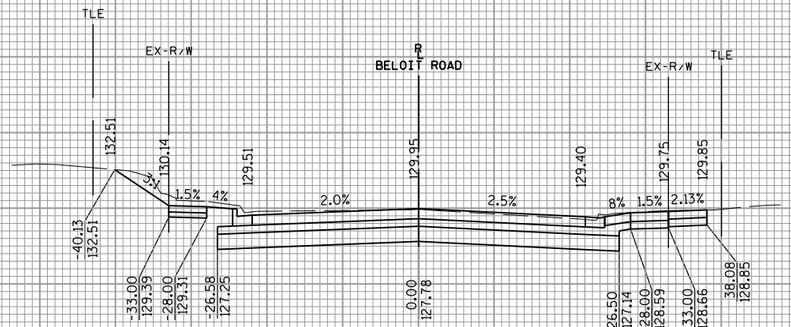
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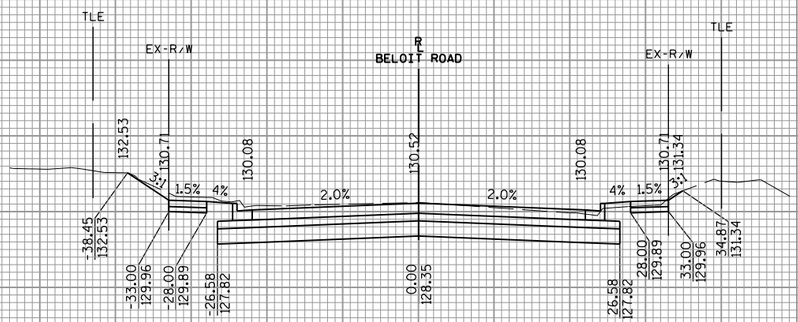
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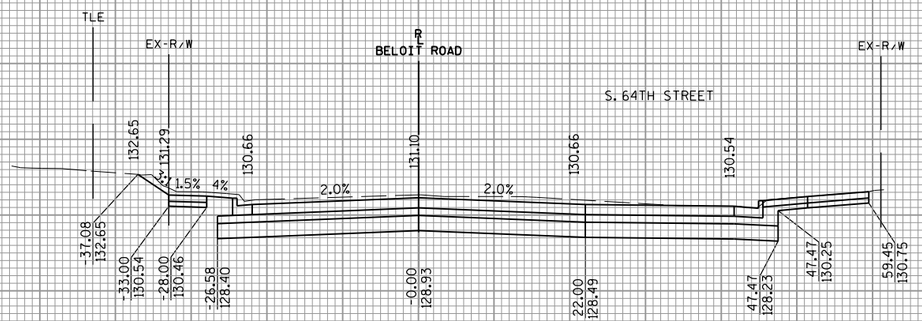
WISDOT/CADDS SHEET 21



34+50.00



34+25.00



34+00.00

5 FT

10 FT

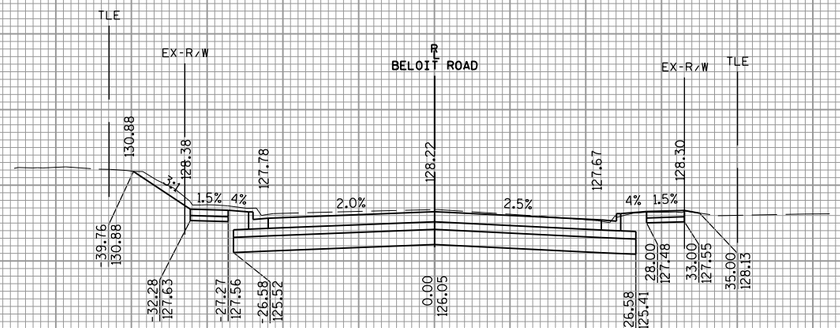
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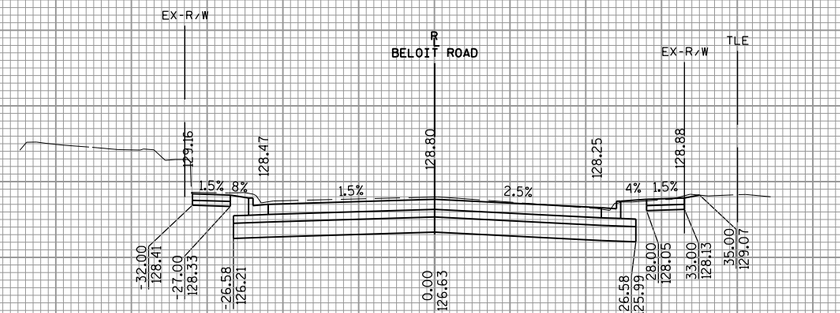
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 342	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

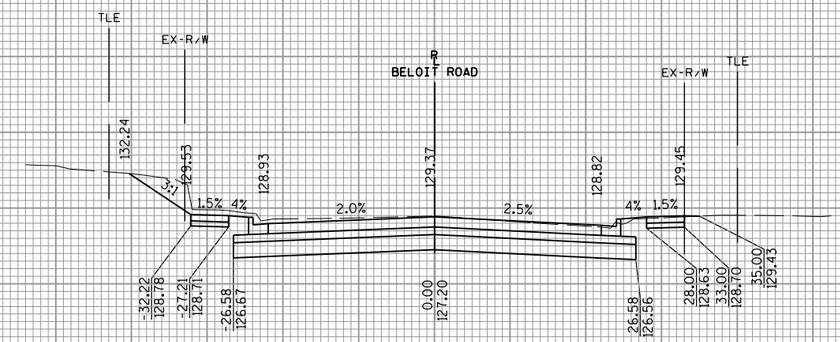
WISDOT/CADDS SHEET 21



35+25.00



35+00.00



34+75.00

5 FT

10 FT

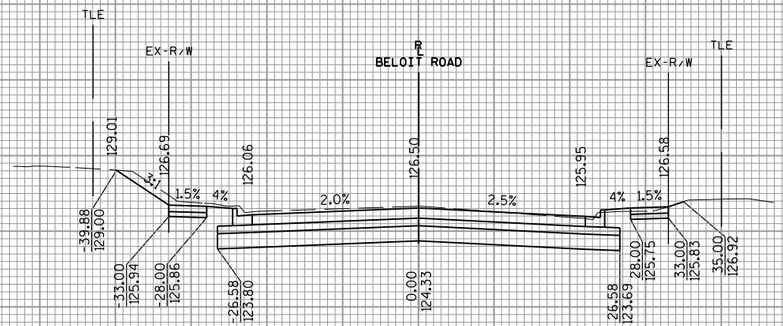
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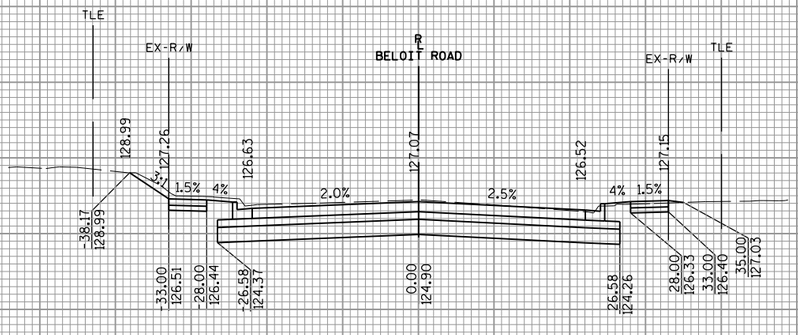
PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 343	E

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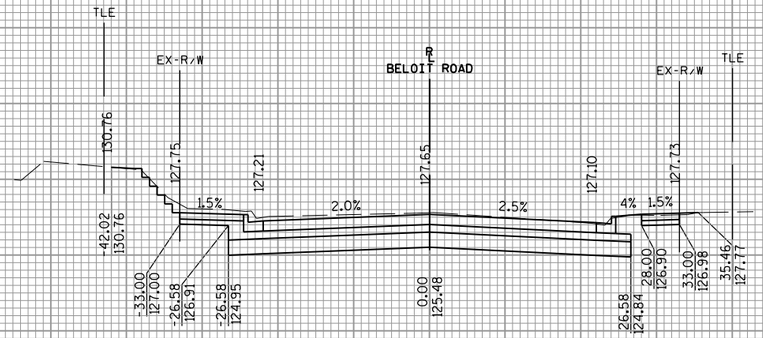
WISDOT/CADDS SHEET 21



36+00.00



35+75.00



35+50.00

5 FT

10 FT

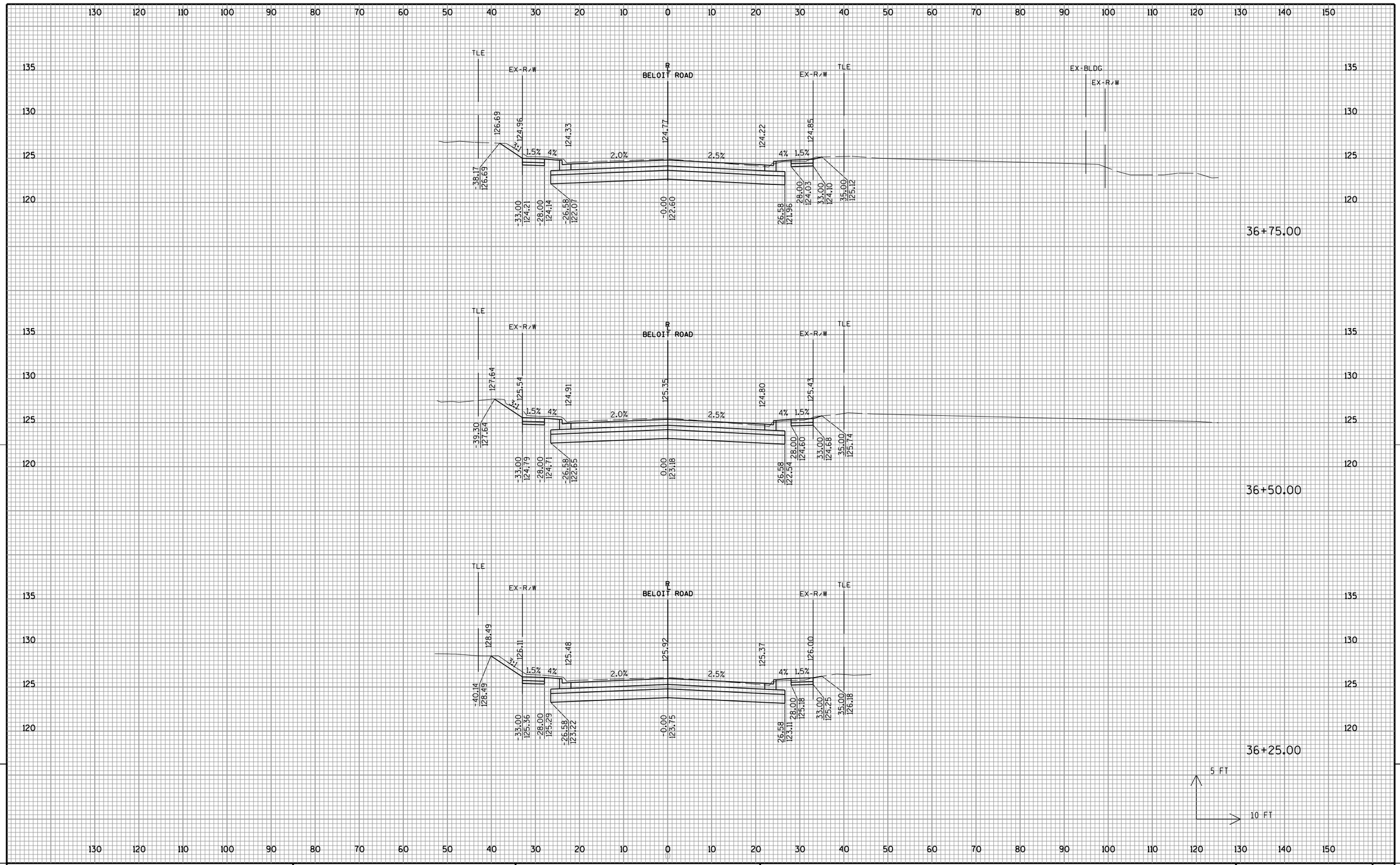
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PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 344	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn | PLOT DATE : 1/5/2023 | PLOT BY : GRAEF | PLOT NAME : | PLOT SCALE : 20.0000 sf / in.

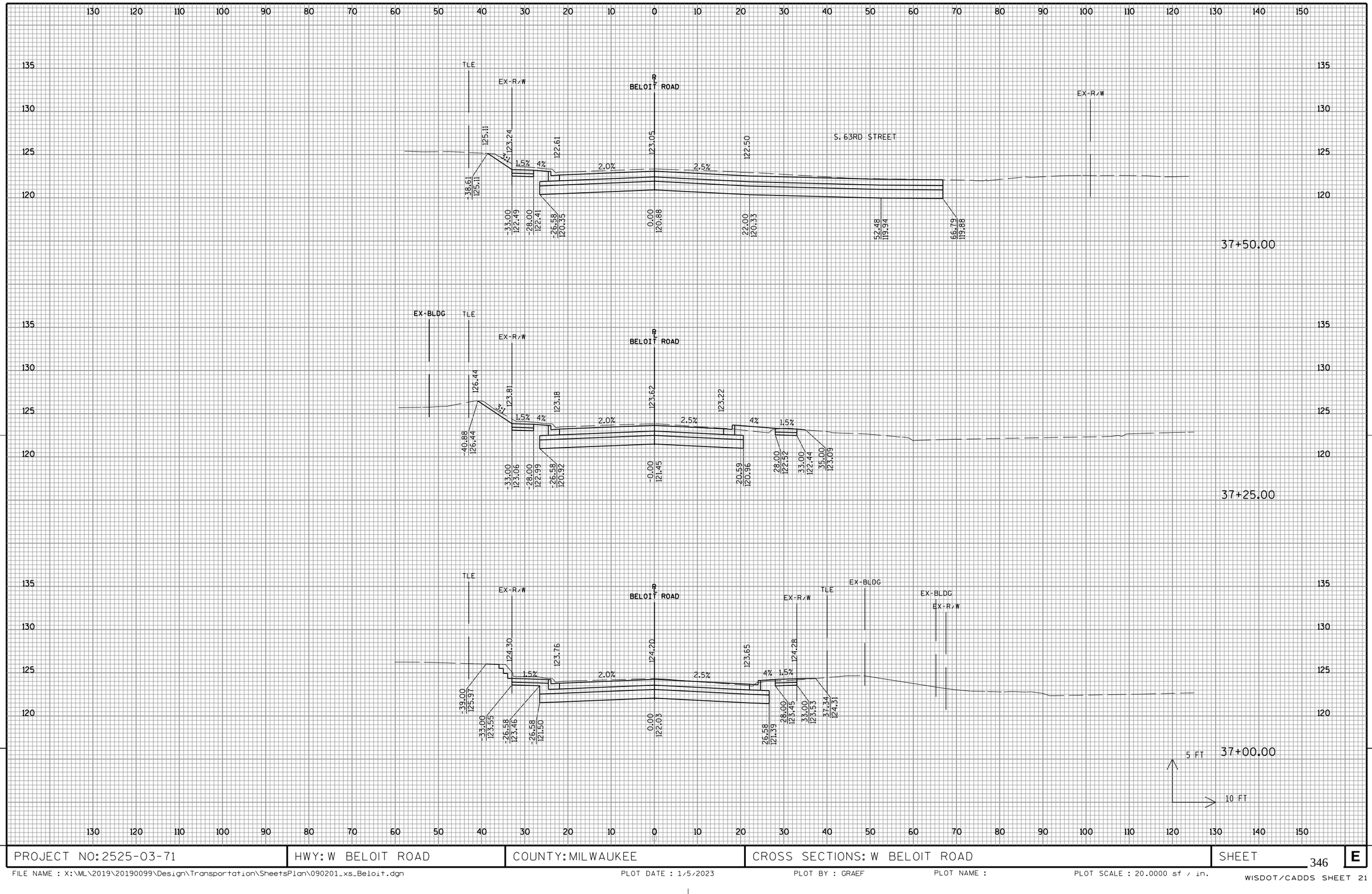
WISDOT/CADDS SHEET 21



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 345	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



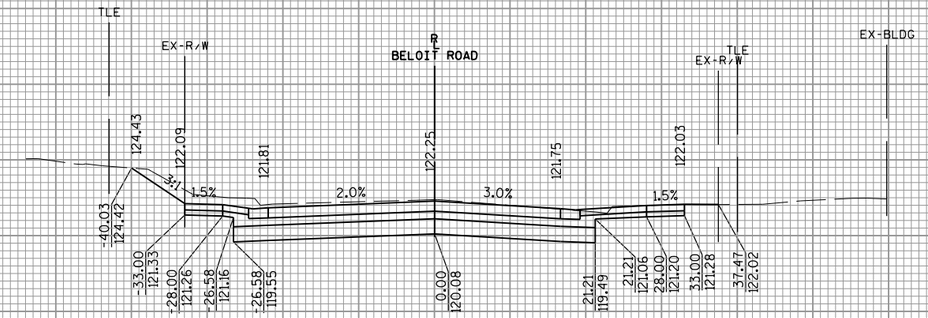
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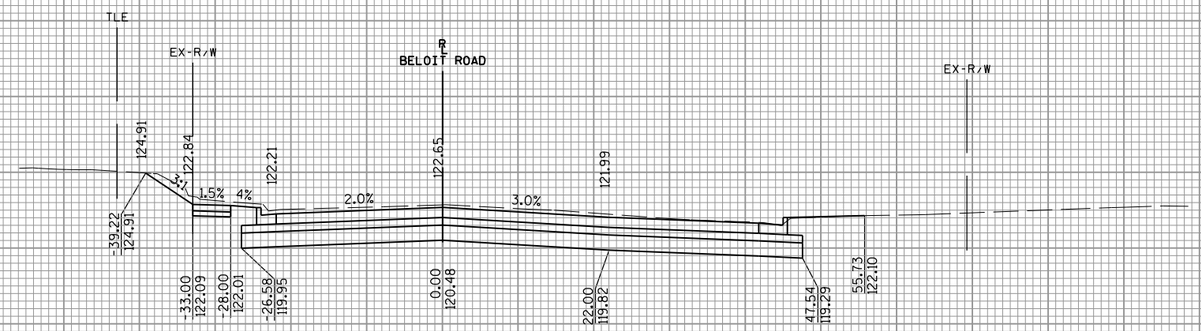
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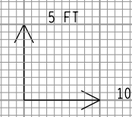
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 346	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



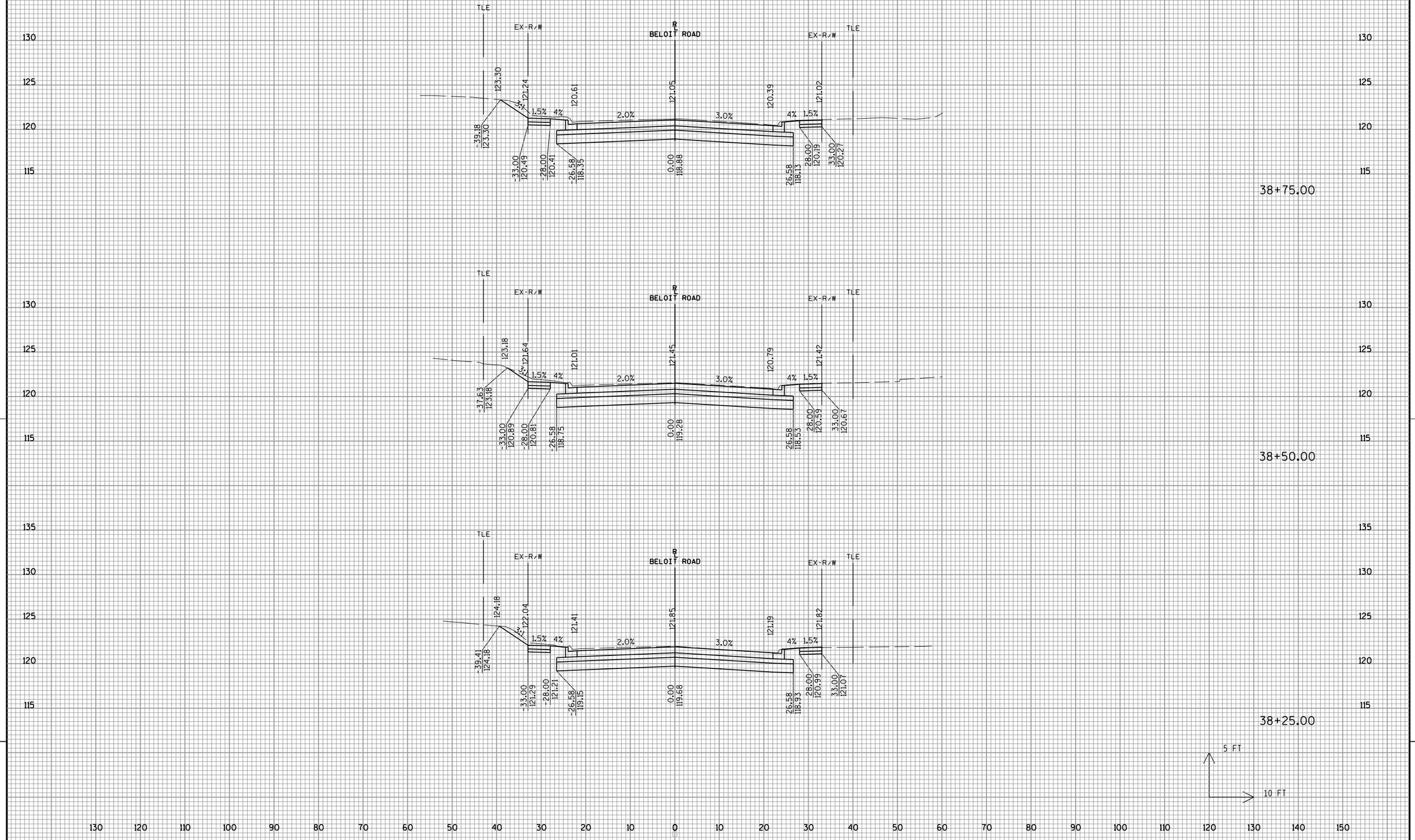




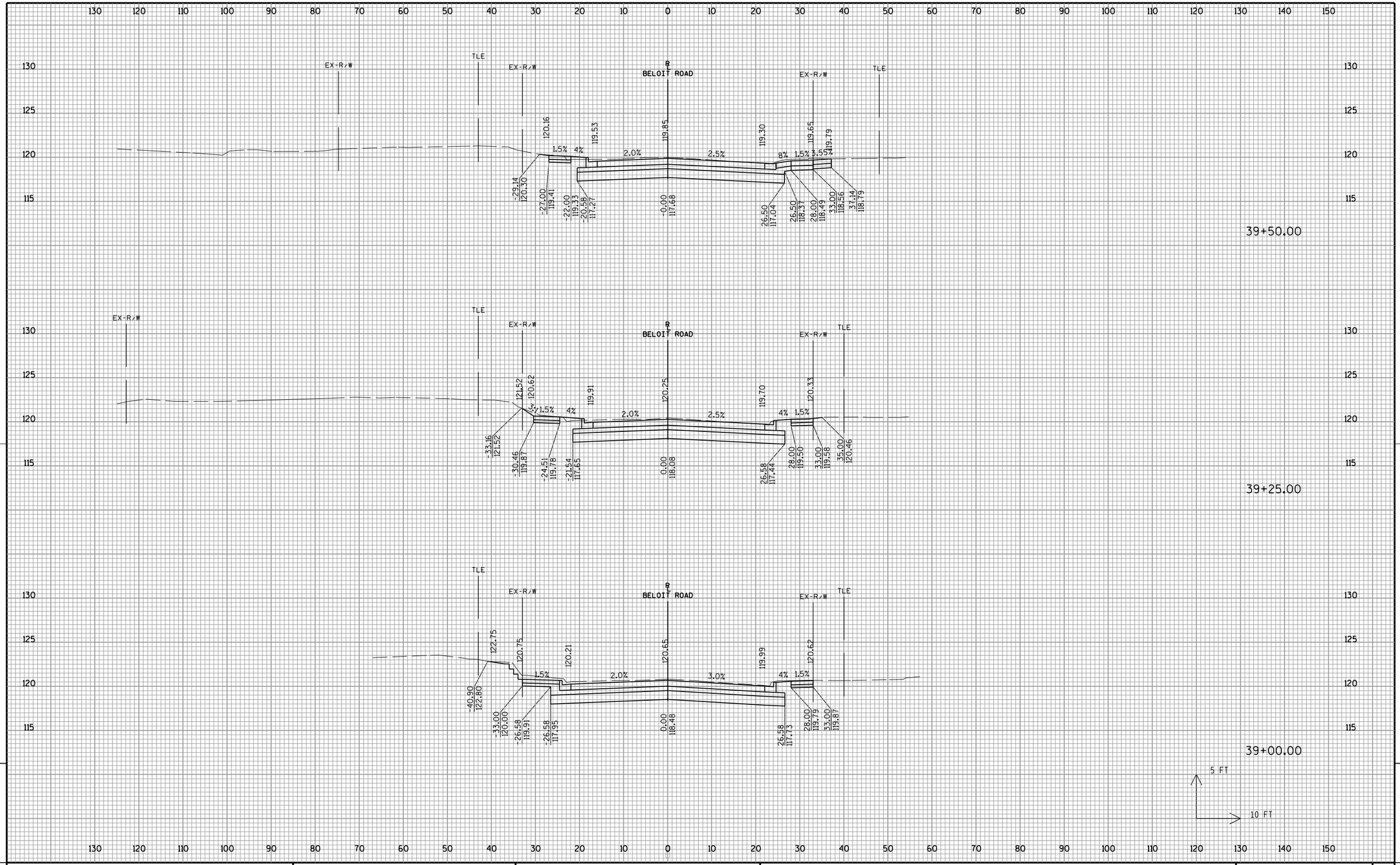
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FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 348	E



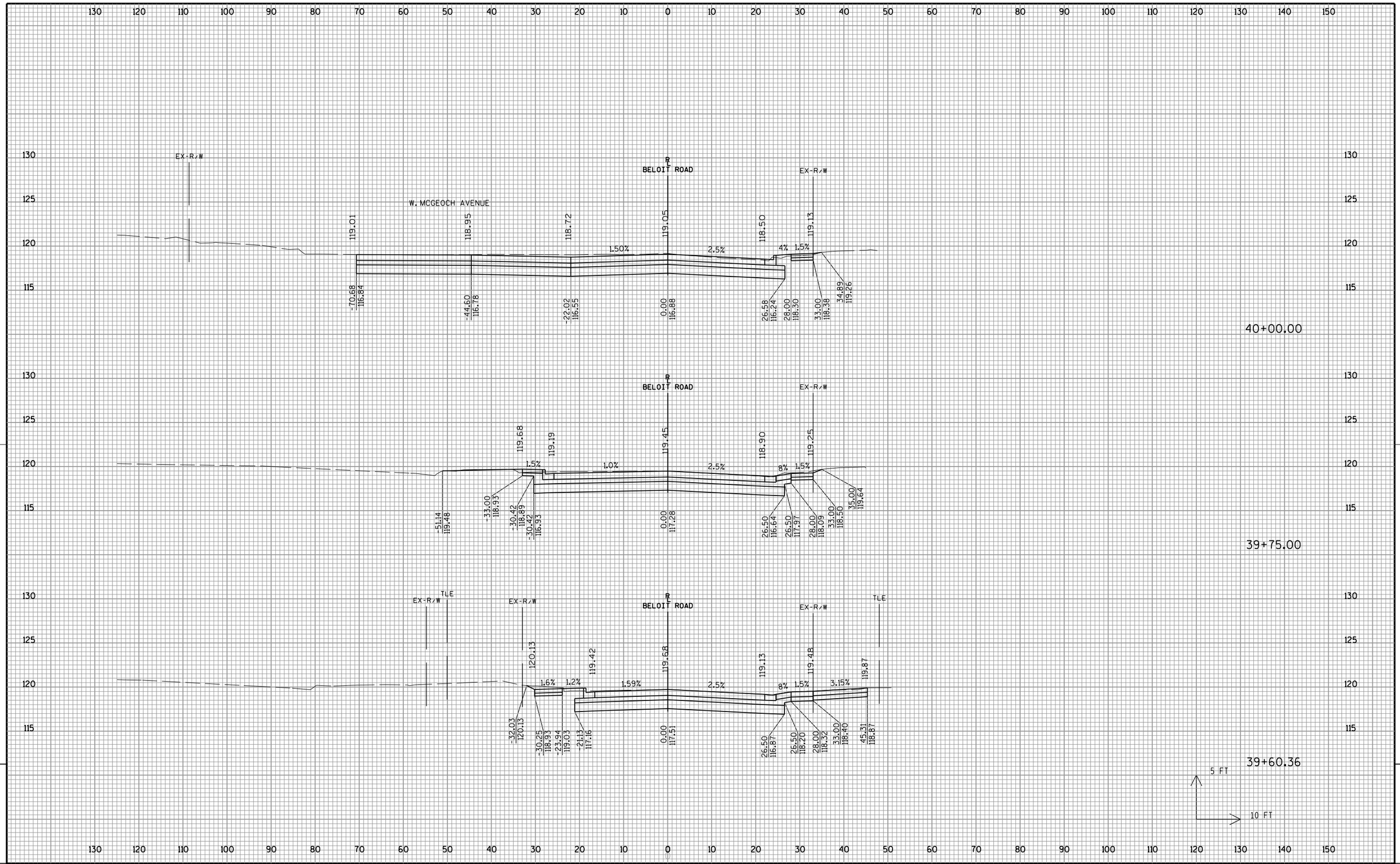
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PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 349	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

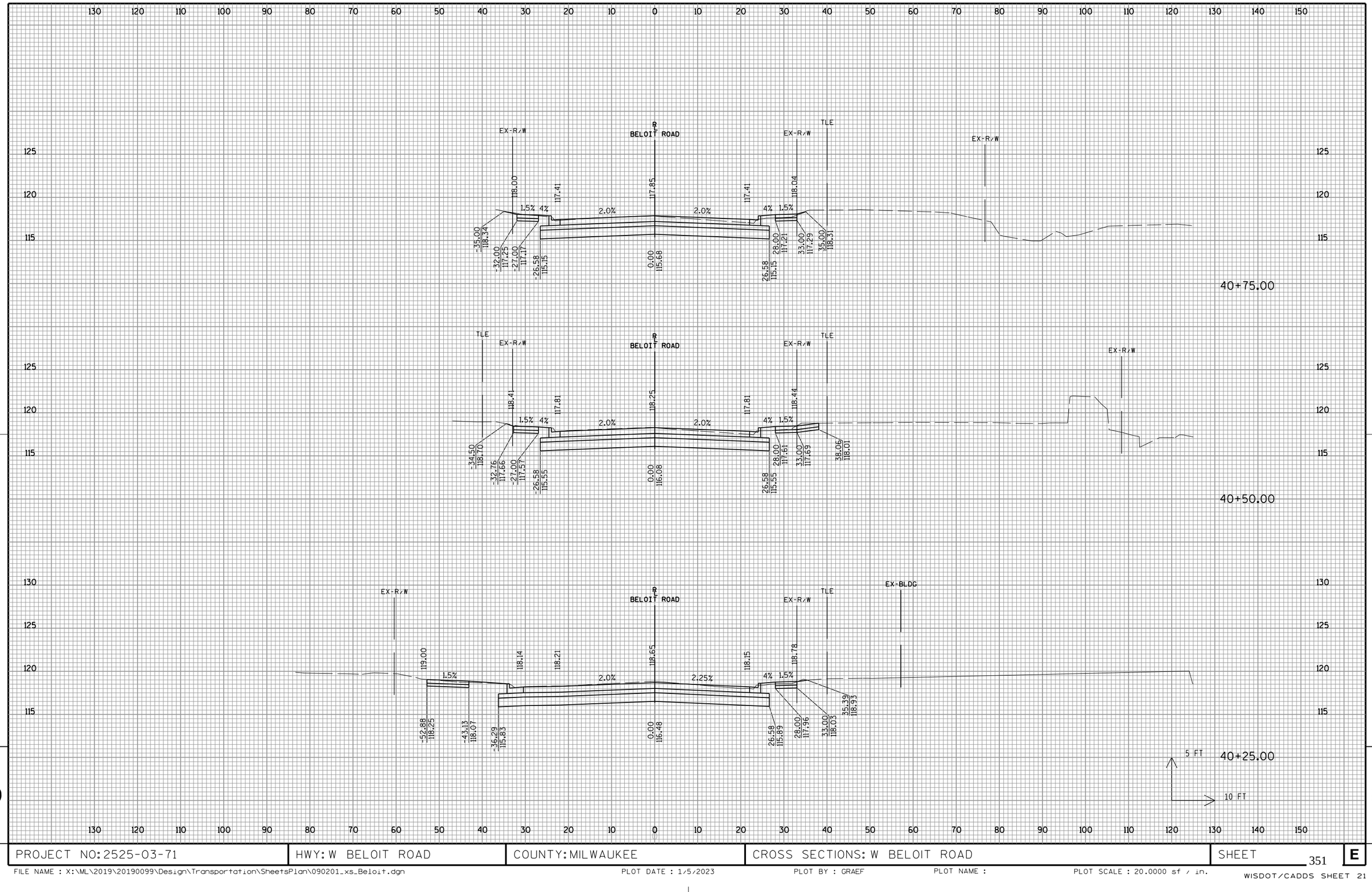
WISDOT/CADDS SHEET 21



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 350	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21



PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 351	E

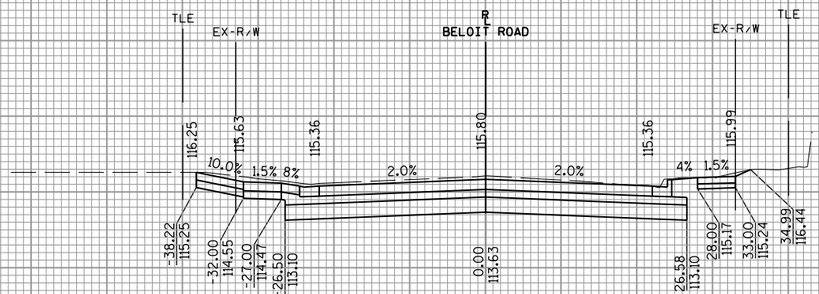
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WISDOT/CADDS SHEET 21

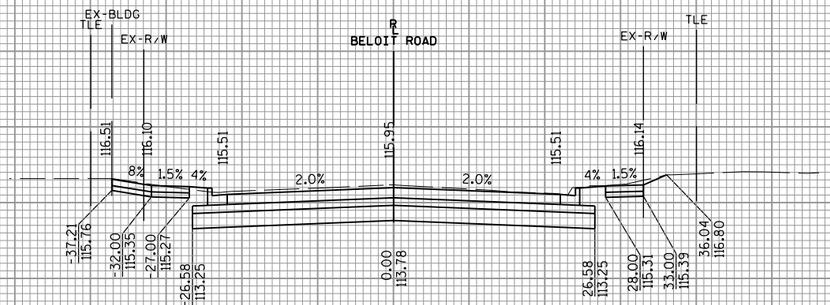
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 352	E

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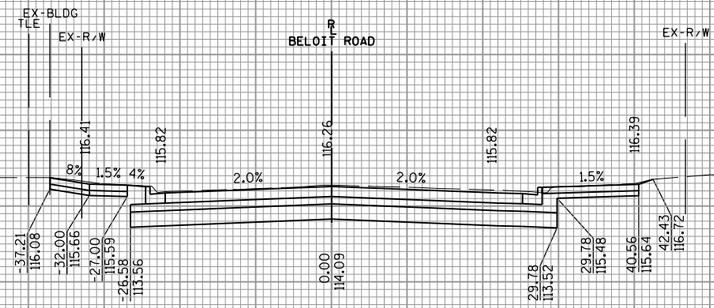
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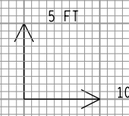
42+14.43



42+00.00



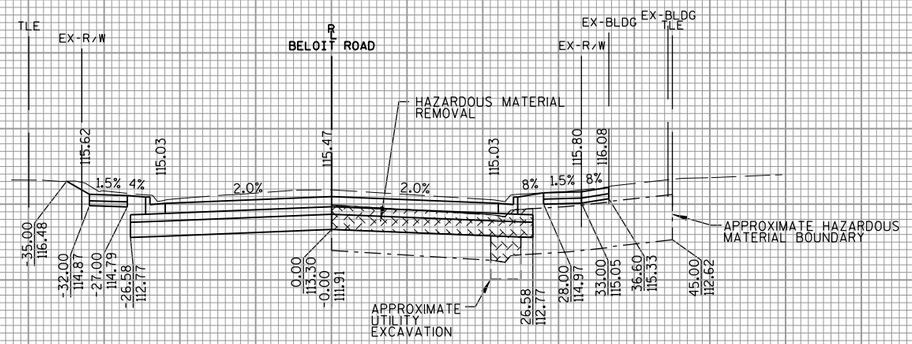
41+75.00



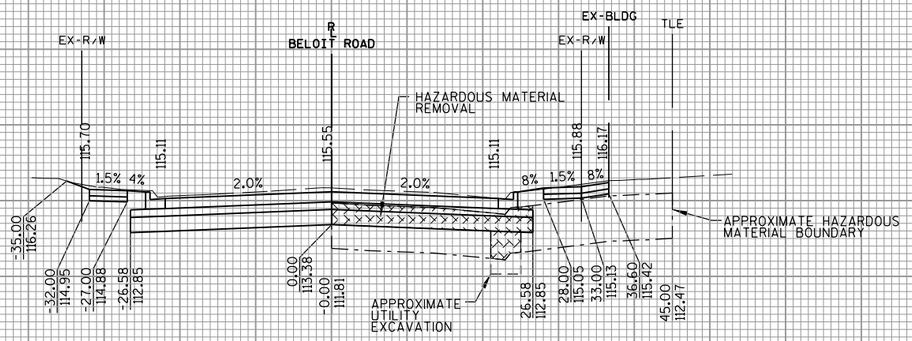
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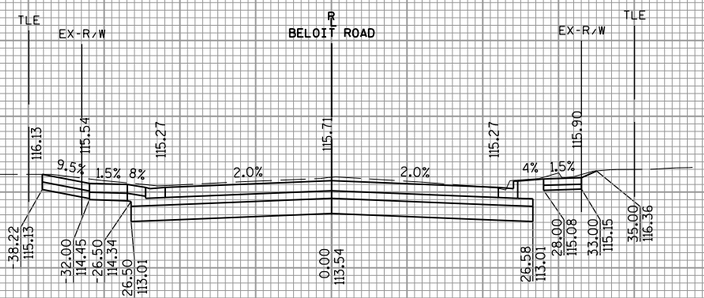
WISDOT/CADDS SHEET 21



42+75.00



42+50.00



42+25.00

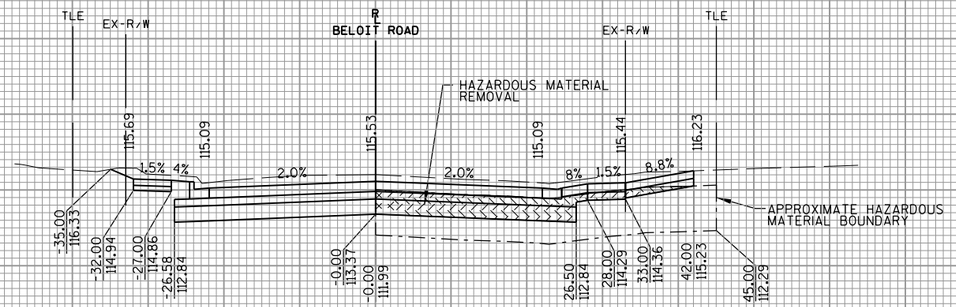
5 FT

10 FT

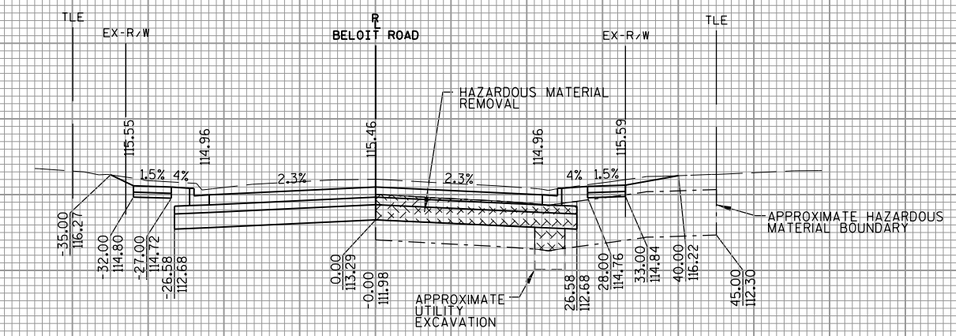
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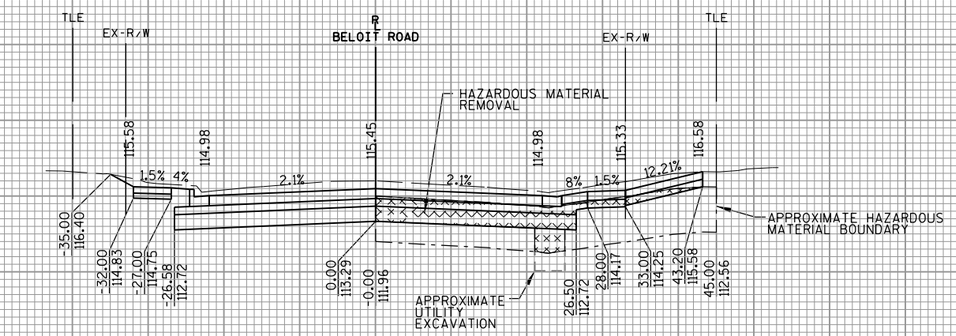
WISDOT/CADDS SHEET 21

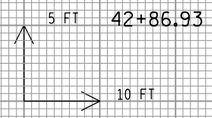


43+25.00



43+00.00





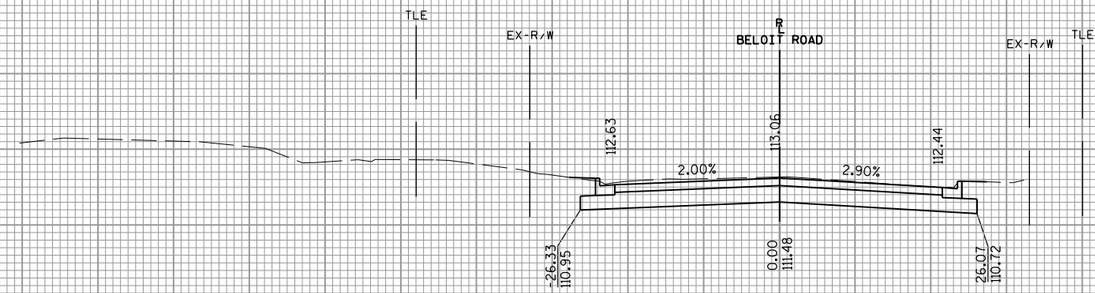
42+86.93

9

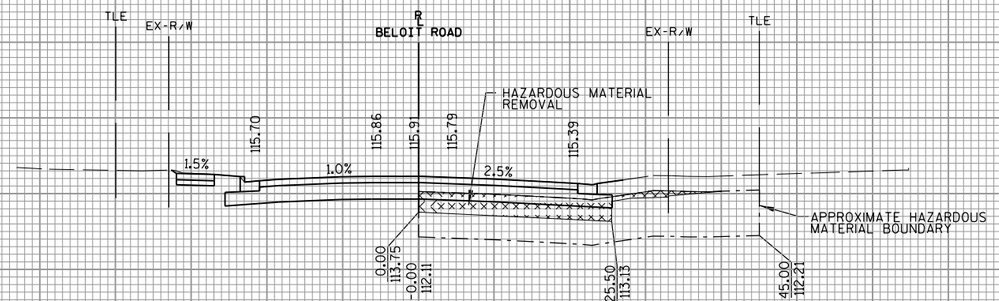
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PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 355	E

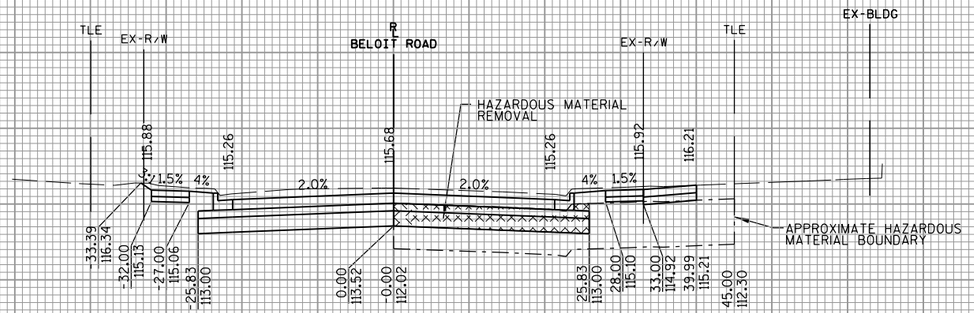
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PLOT DATE : 1/5/2023
PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 20.0000 sf / in.
WISDOT/CADDS SHEET 21



46+30.00



43+75.00



43+50.00

5 FT

10 FT

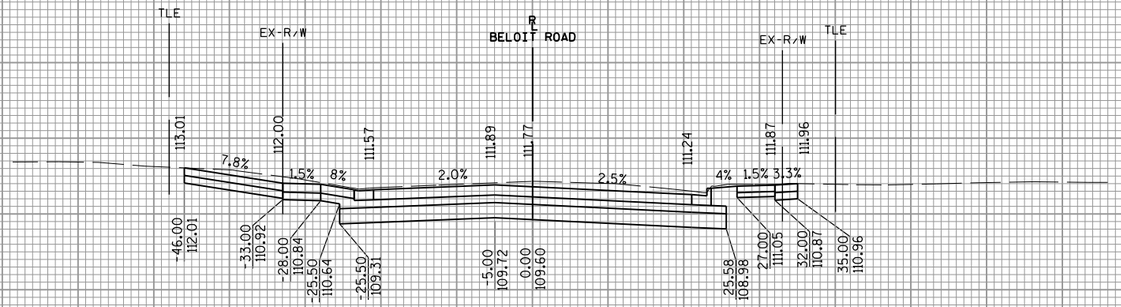
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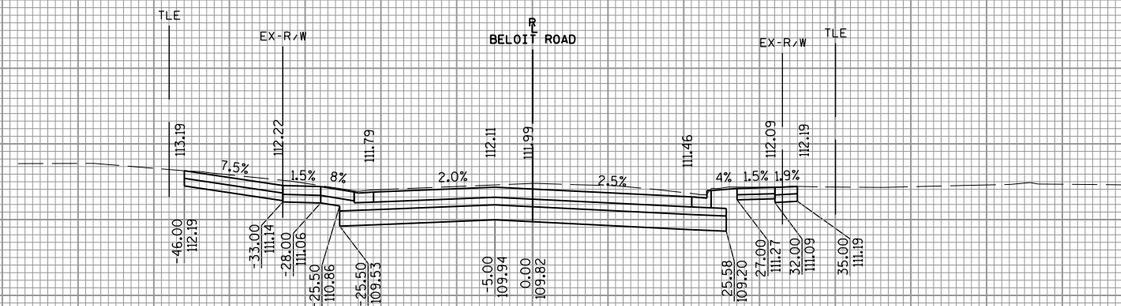
PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 356	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn | PLOT DATE : 1/5/2023 | PLOT BY : GRAEF | PLOT NAME : | PLOT SCALE : 20.0000 sf / in.

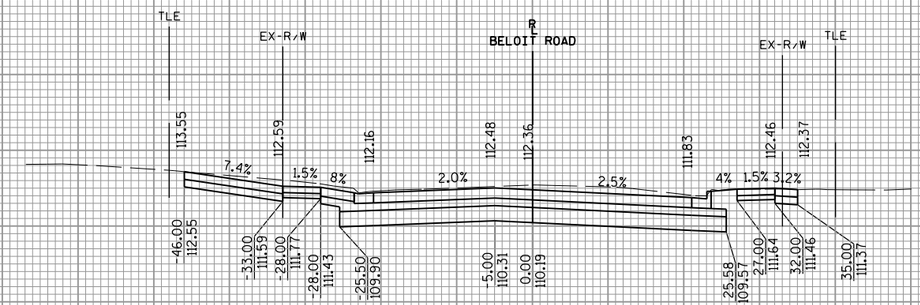
WISDOT/CADDS SHEET 21



46+75.00



46+64.76



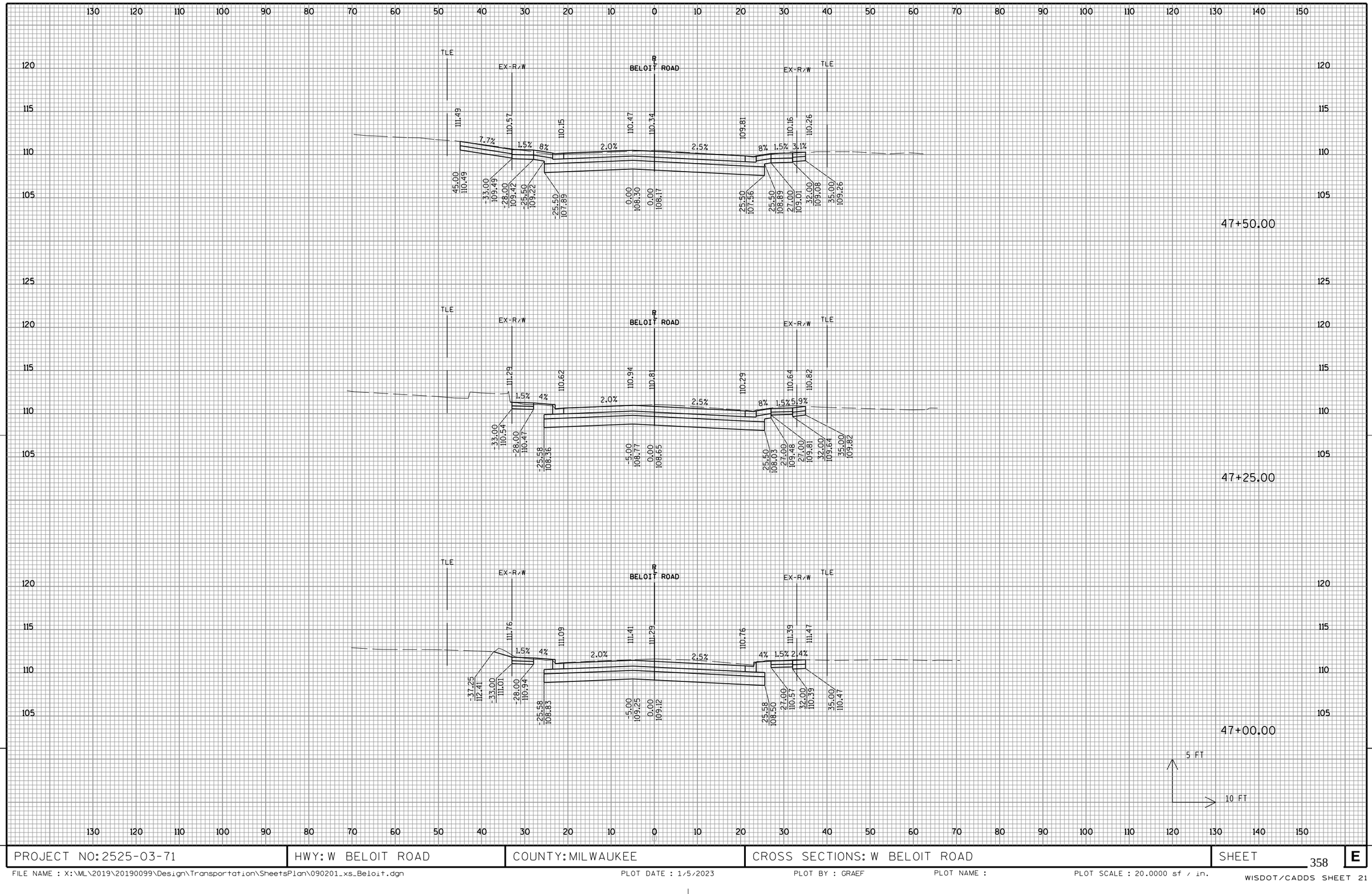
46+50.00

5 FT

10 FT

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 357	E

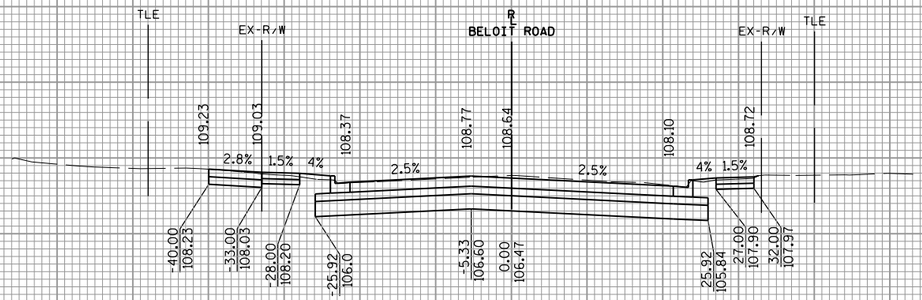
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PLOT DATE : 1/5/2023
PLOT BY : GRAEF
PLOT NAME :
PLOT SCALE : 20.0000 sf / in.
WISDOT/CADDS SHEET 21

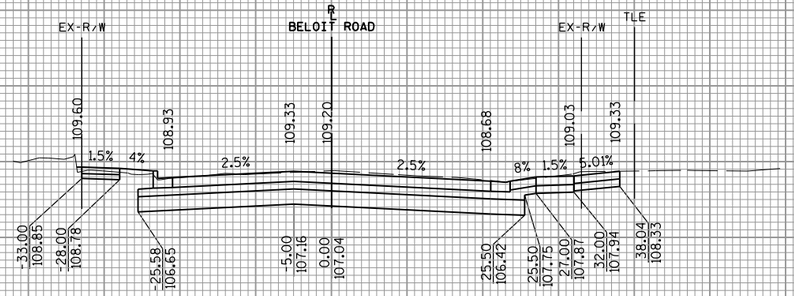


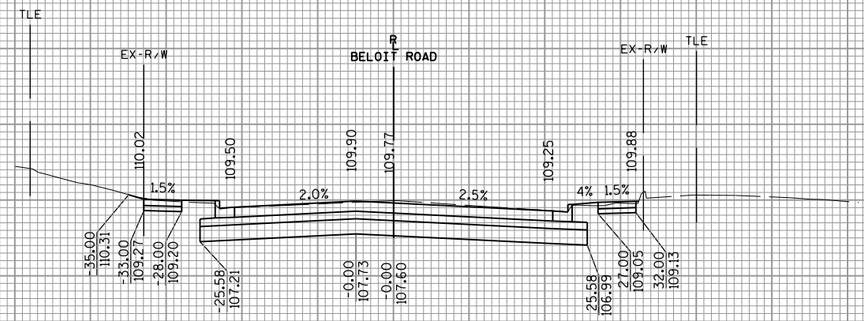
PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 358	E

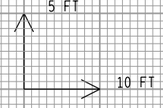
FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21





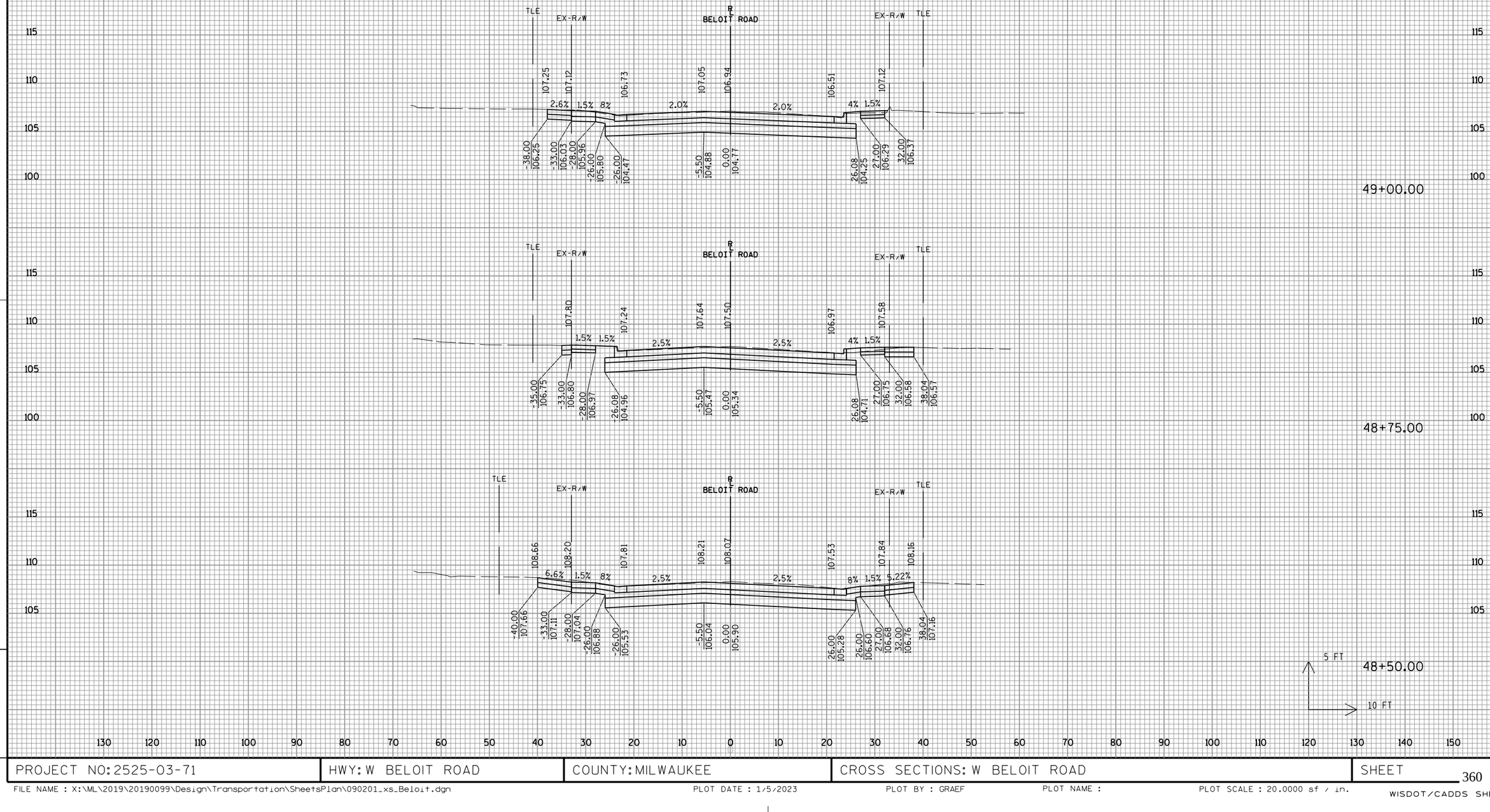




PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 359	E

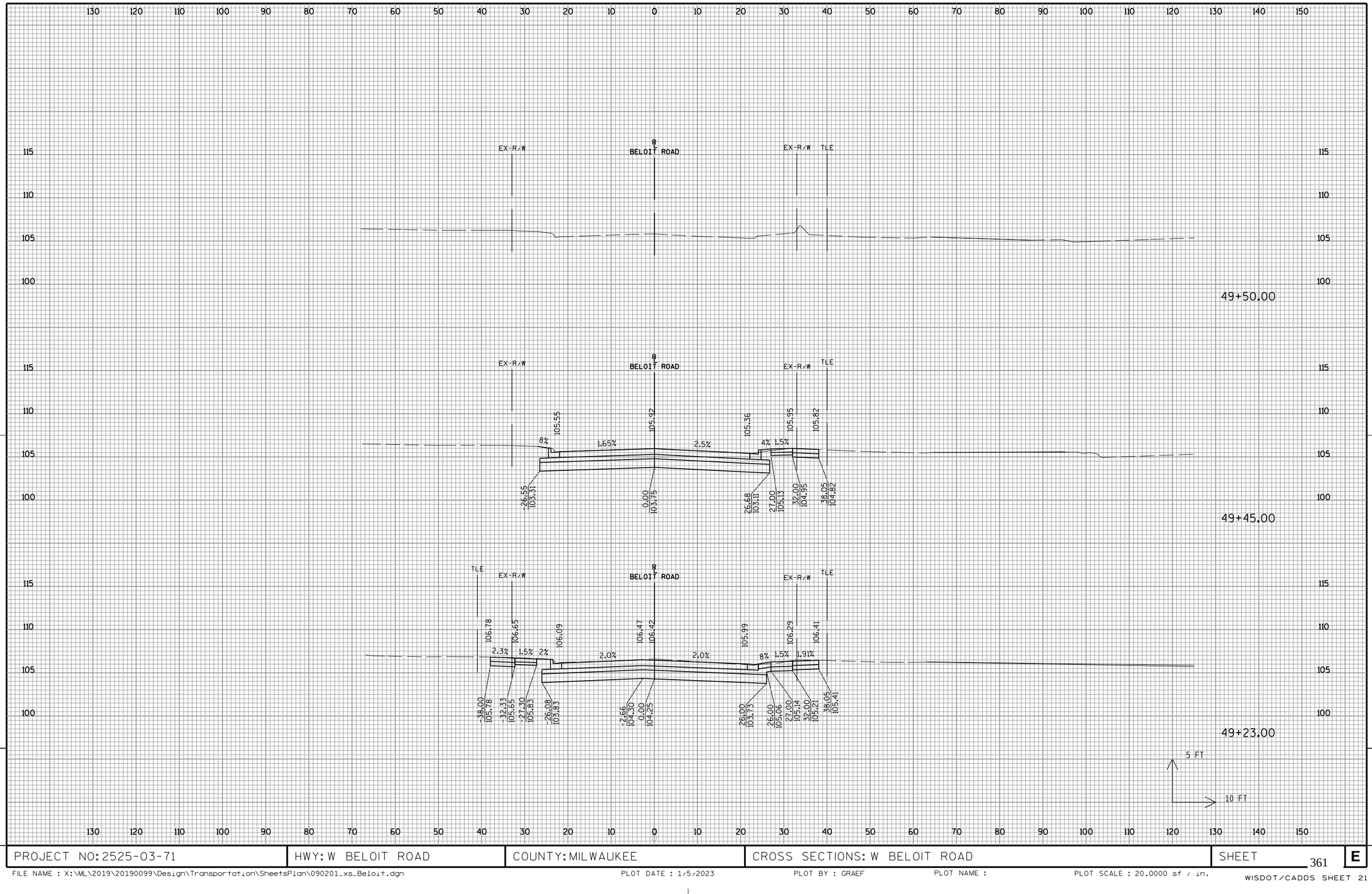
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WISDOT/CADDS SHEET 21



PROJECT NO:2525-03-71	HWY: W BELOIT ROAD	COUNTY:MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 360	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.
WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2525-03-71	HWY: W BELOIT ROAD	COUNTY: MILWAUKEE	CROSS SECTIONS: W BELOIT ROAD	SHEET 361	E

FILE NAME : X:\ML\2019\20190099\Design\Transportation\SheetsPlan\090201_xs_Beloit.dgn PLOT DATE : 1/5/2023 PLOT BY : GRAEF PLOT NAME : PLOT SCALE : 20.0000 sf / in.

WISDOT/CADDS SHEET 21

Wisconsin Department of Transportation

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