REFERENCE LINE

RAILROADS

PROFILE

GRADE LINE

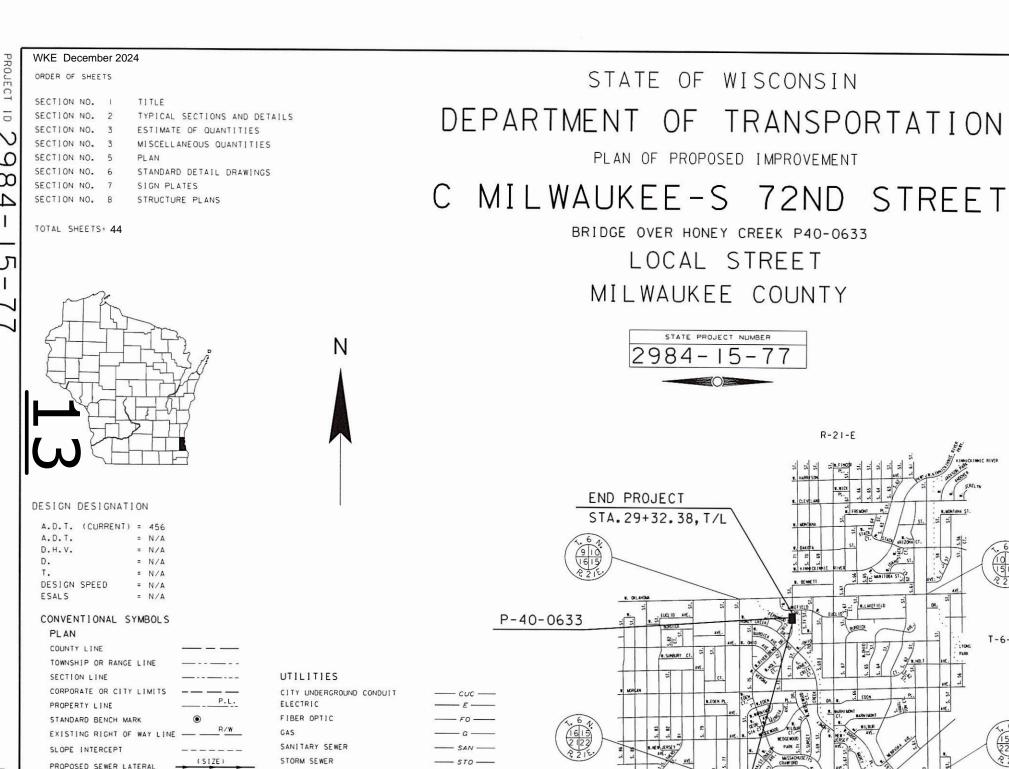
ORIGINAL GROUND

GRADE ELEVATION

FENCE

COMBUSTIBLE FLUIDS

CATCH BASIN OR INLET



TRAFFIC & ELECTRICAL SERVICES

MILWAUKEE METRO SEWERAGE DIST

TELEPHONE OR TELEGRAPH POLE

TRAFFIC SIGNAL CONTROL BOX

MANHOLES - SEWER O UTILITY (TYPE)

TREES - EXISTING TO BE REMOVED

GAS OR WATER GATE VALVE

FIRE & POLICE CALL BOX

LIGHT POLE

POWER POLE

HYDRANT

TRAFFIC SIGNAL

- TE&ES-

- MMSD -

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2025103 2984-15-77

Acgepted For

Original Plans Prepared By



T-6-N

POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN

COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MILWAUKEE COUNTY, NAD 83 (2011) IN US SURVEY FEET VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS,

AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE CITY OF MILWAUKEE DATUM.

TO CONVERT ELEVATIONS SHOWN ON THIS PLAN TO NATIONAL GEODEDIC VERTICAL DATUM OF 1929, ADD

580.603 TO ELEVATIONS SHOWN ON THIS PLAN.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY CITY OF MILWAUKEE Surveyor CITY OF MILWAUKEE Designer GREGORY HAFEMAN Project Manager Region Examiner BRIAN BOOTHBY Region Supervisor _

APPROVED FOR THE DEPARTMENT

07/02/2024 (Signature

+++++++++++

EXISTING I PROPOSED I

M

TOTAL NET LENGTH OF CENTERLINE = 0.006 MI. (URBAN)

LAYOUT

1/4 MI.

BEGIN PROJECT

Y. = 280,664.81

X. = 581, 185.20

STA. 28+99.38.T/L

UTILITY CONTACTS

CHARTER/ SPECTRUM

CHARLES BRASILE 1320 N. DR. MARTIN LUTHER KING JR. DR. MILWAUKEE, WI 53212 EMAIL: CHARLES. BRASILE@CHARTER. COM

841 N. BROADWAY, ROOM 409 MILWAUKEE, WI 53202 PHONE: 414-286-3640

CITY OF MILWAUKEE - SEWERS WE ENERGIES - GAS, ELECTRIC

ZAFAR YOUSUF 841 N. BROADWAY MILWAUKEE, WI 53202 PHONE: 414-286-2467 EMAIL: ZYOUSU@MILWAUKEE.GOV:

SYDNEY BATCHELOR 500 S 116TH ST WEST ALLIS 53214 PHONE: 414-221-2738 EMAIL: WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

CITY OF MILWAUKEE - WATER

EMAIL: JIWEN@MILWAUKEE.GOV

JOSHUA IWEN

OTHER CONTACTS

CITY OF MILWAUKEE - FORESTRY

JAMES KRINGER 841 N. BROADWAY MILWAUKEE, WI 53202 PHONE: 414-708-2428 EMAIL: JAMES. KRINGER@MILWAUKEE.GOV

CITY OF MILWAUKEE - STREET LIGHTS

LISA HICKMAN 841 N. BROADWAY MILWAUKEE, WI 53202 PHONE: 414-286-3270 EMAIL: LHICKM@MILWAUKEE.GOV

CITY OF MILWAUKEE- STRUCTURES SECTION

JONATHAN THOMAS, P.E. 841 N. BROADWAY, RM 902 MILWAUKEE, WI 53202 PHONE: 414-286-0463 EMAIL: JDTHOMA@MILWAUKEE.GOV CITY OF MILWAUKEE - UTILITY COORDINATION

AHMAD BAYOUD 841 N. BROADWAY, ROOM 710 MILWAUKEE, WI 53202 PHONE: 414-708-0645 EMAIL: ABAYOU@MILWAUKEE.GOV

SEWRPC CONTACT

ROB MERRY CHIEF SURVEYOR P.O. BOX 1607 WAUKESHA, WI 53187-1607 OFFICE: 262-953-4289 EMAIL: RMERRY@SEWRPC.ORG

ANDY TRAEGER CONSTRUCTION COORDINATOR P.O. BOX 1607 WAUKESHA, WI 53187-1607 OFFICE: 262-953-4296 EMAIL: ATRAEGER@SEWRPC.ORG

WISDNR REGION

DNR SOUTHEAST REGION 2300 N. DR. MARTIN LUTHER KING JR. DR. MILWAUKEE, WI 53212

RYAN PAPPAS

EMAIL: RYAN. PAPPAS@WISCONSIN. GOV



Dial [31] or (800) 242-8511

www.DiggersHotline.com

GENERAL NOTES

- ALL DISTURBED AREAS, NOT SURFACED, ARE TO BE COVERED WITH 4" TOPSOIL, SEEDED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 2. NO TREES OR SHRUBS SHALL BE REMOVED UNLESS DESIGNATED FOR REMOVAL BY THE ENGINEER.
- THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
- EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS "ECIP" AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGATATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.
- THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN JUNE OF 2023. CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING PERMIT SECTION AT (414) 286-2487 TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

ORDER OF SECTION 2 SHEETS GENERAL NOTES UTILITY CONTACTS PROJECT OVERVIEW TYPICAL SECTIONS EROSION CONTROL PAVMENT MARKING TRAFFIC CONTROL ALIGNMENT PLAN

STANDARD ABBREVIATIONS

- ASPHALT

BENCH MARK

CTR. - CENTER

CENTER LINE C/L

COMBINED COMB.

CONC. CONCRETE

CONCRETE WALK COR. CORNER

CURB

EAST BOUND

ELEVATION

ENTRANCE

EXIST. - EXISTING - FLANGE

GUTTER, OR GAS

HYD. HYDRANT

LT. - LEFT

MMSD MILWAUKEE METROPOLITAN SEWERAGE DISTRICT

PGL - PROFILE GRADE LINE

PROPERTY LINE

R OR RAD. RADIUS

RET. RETAINING

RT. RIGHT

R/W

TEL AMERITECH

TES TRAFFIC ENGINEERING,

RIGHT OF WAY

AND ELECTRICAL SERVICES T/L TRANSIT LINE

WEST BOUND

WISCONSIN ELECTRIC POWER

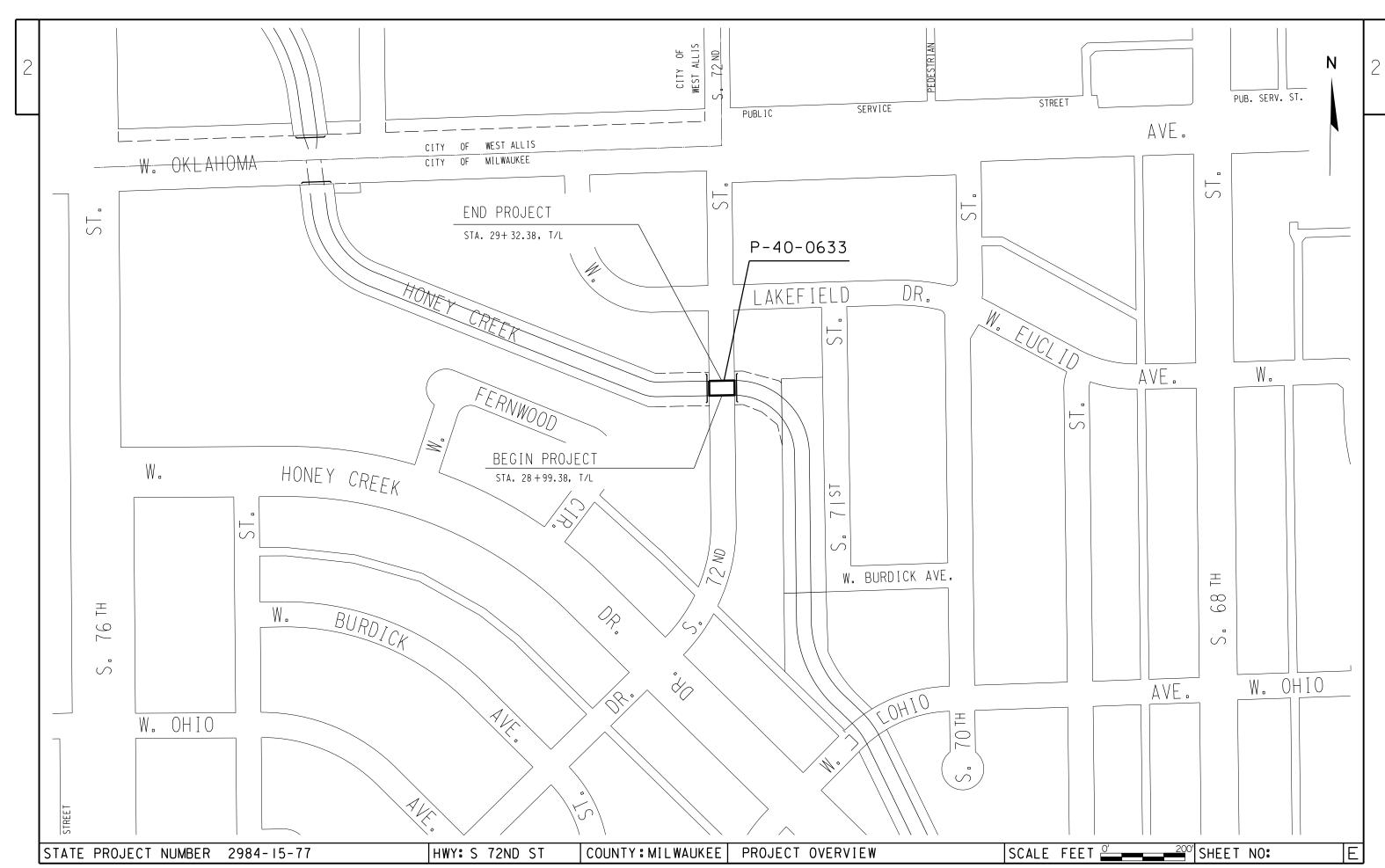
STATE PROJECT NUMBER 2984-15-77 |HWY:S 72ND ST

COUNTY: MIL WAUKEE

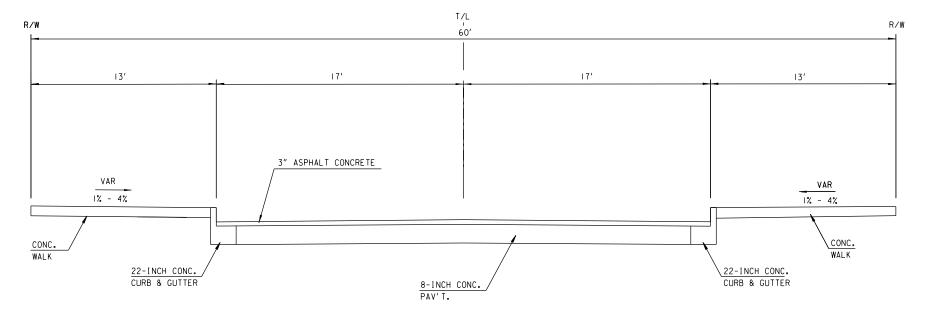
GENERAL NOTES

|SHEET NO:

FILENAME: W:\STR\B0604\2024 REHAB\ROADS\SHEETS\MISC\CONTACTS.DGN

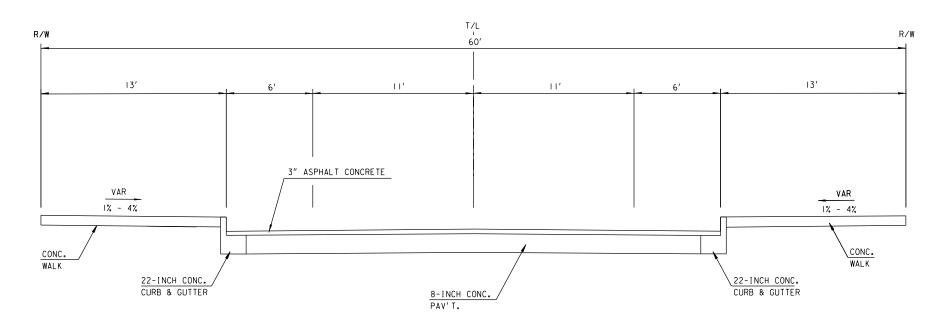






TYPICAL EXISTING SECTION S 72ND STREET

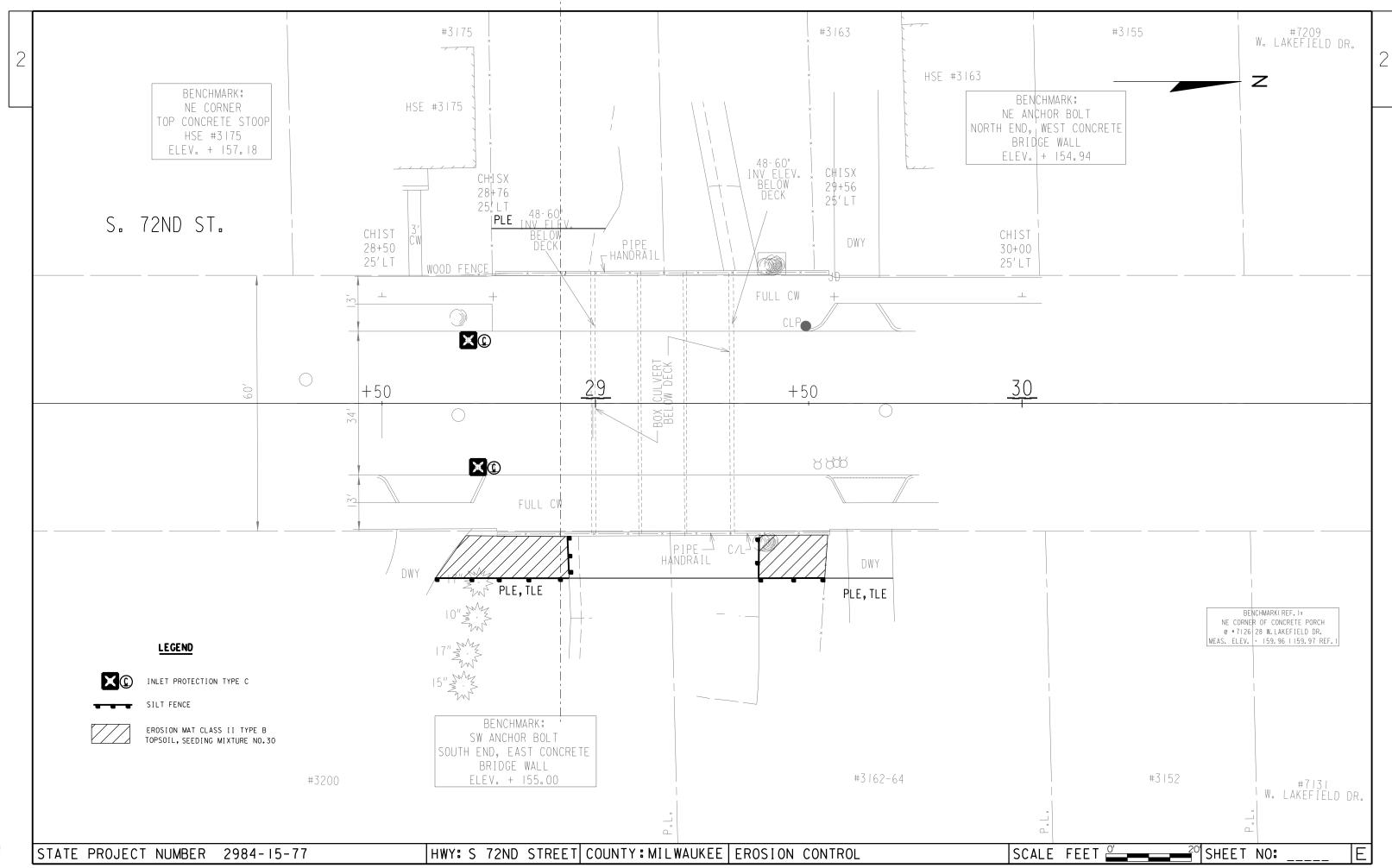
(LOOKING NORTH)

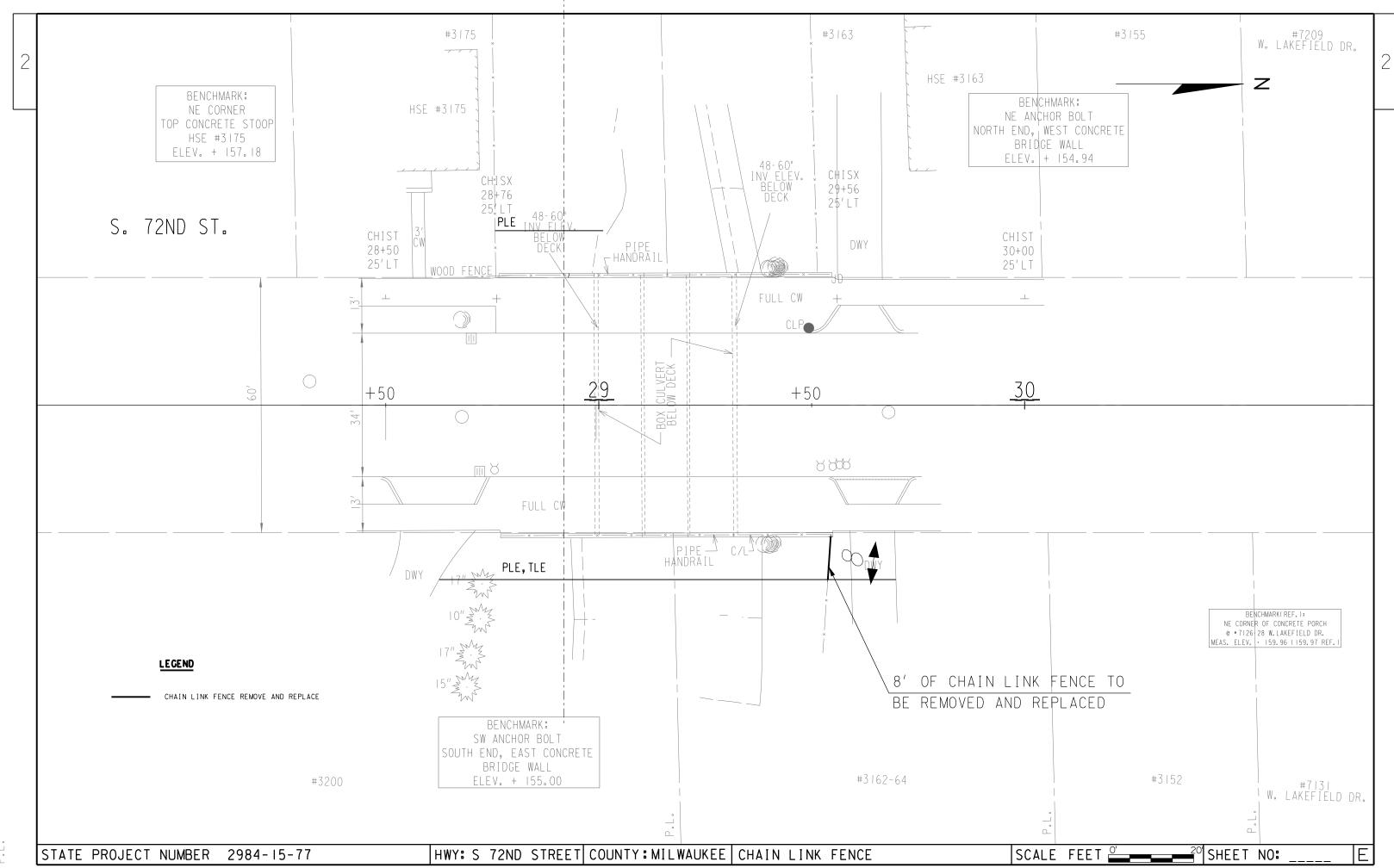


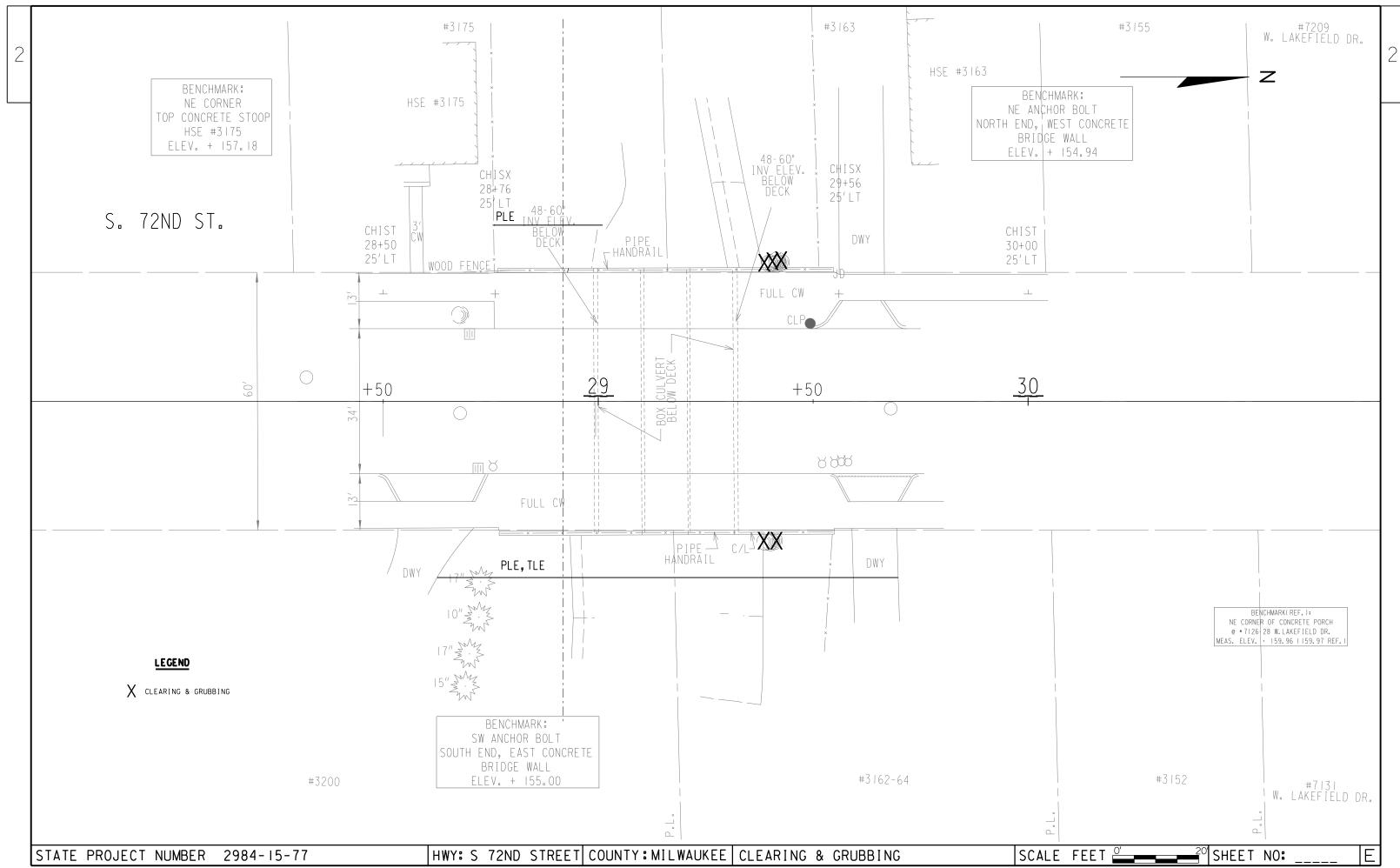
TYPICAL PROPOSED SECTION S 72ND STREET

(LOOKING NORTH)

STATE PROJECT NUMBER 2984-15-77 HWY: S 72ND ST COUNTY: MILWAUKEE TYPICAL SECTION SCALE FEET SHEET NO: E







COUNTY: MILWAUKEE UTILITIES

STATE PROJECT NUMBER

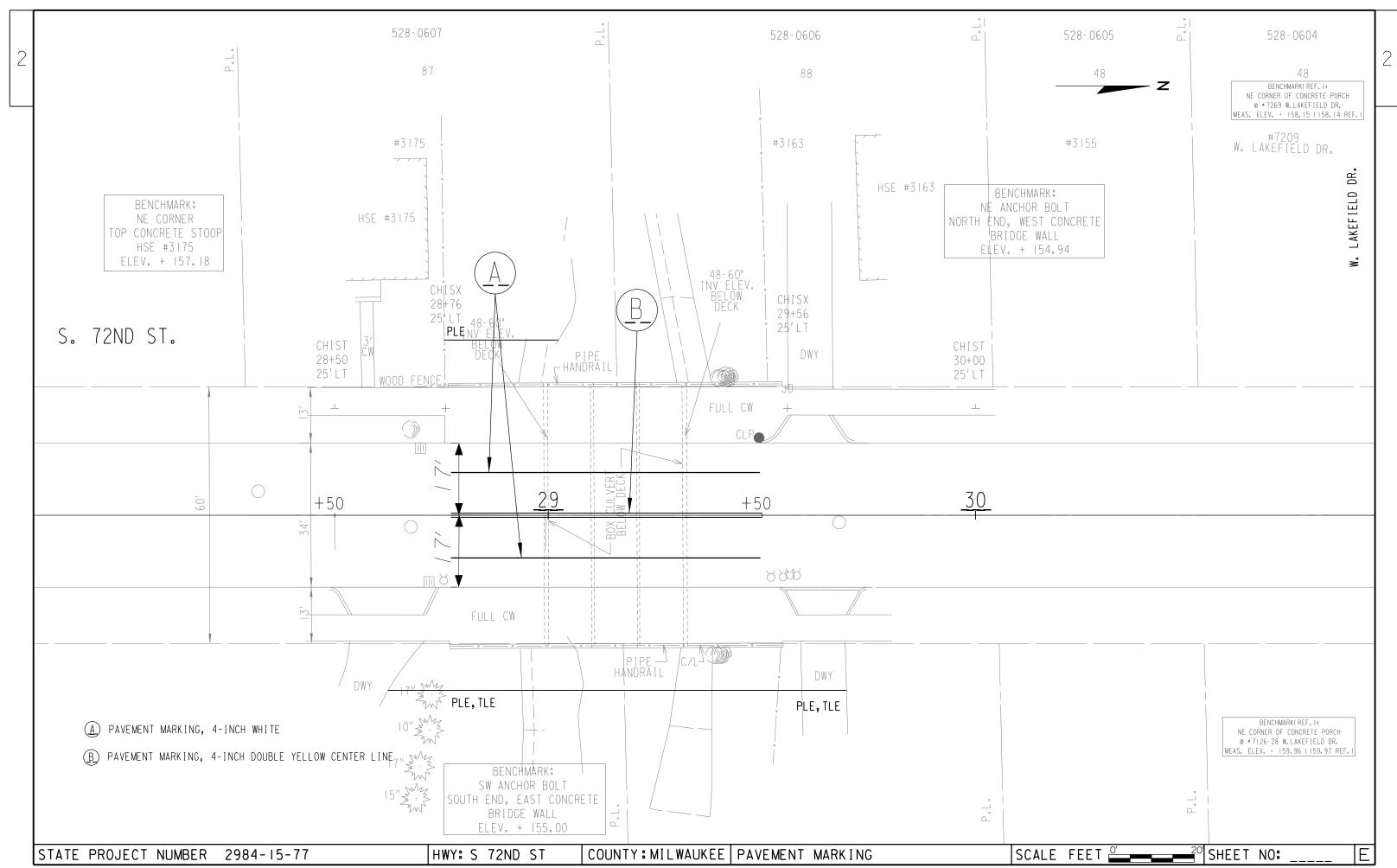
2984-15-77

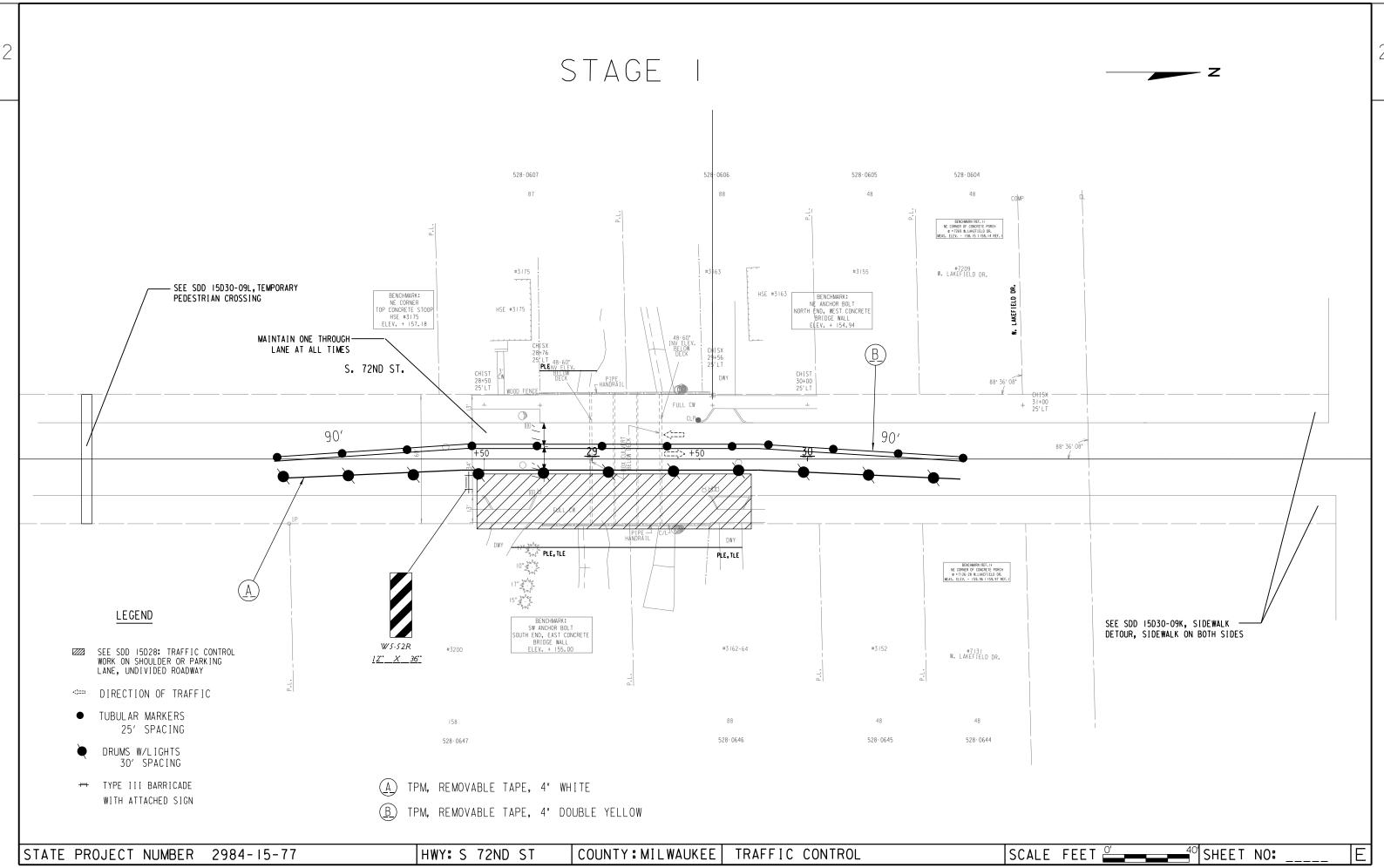
HWY: S 72ND ST

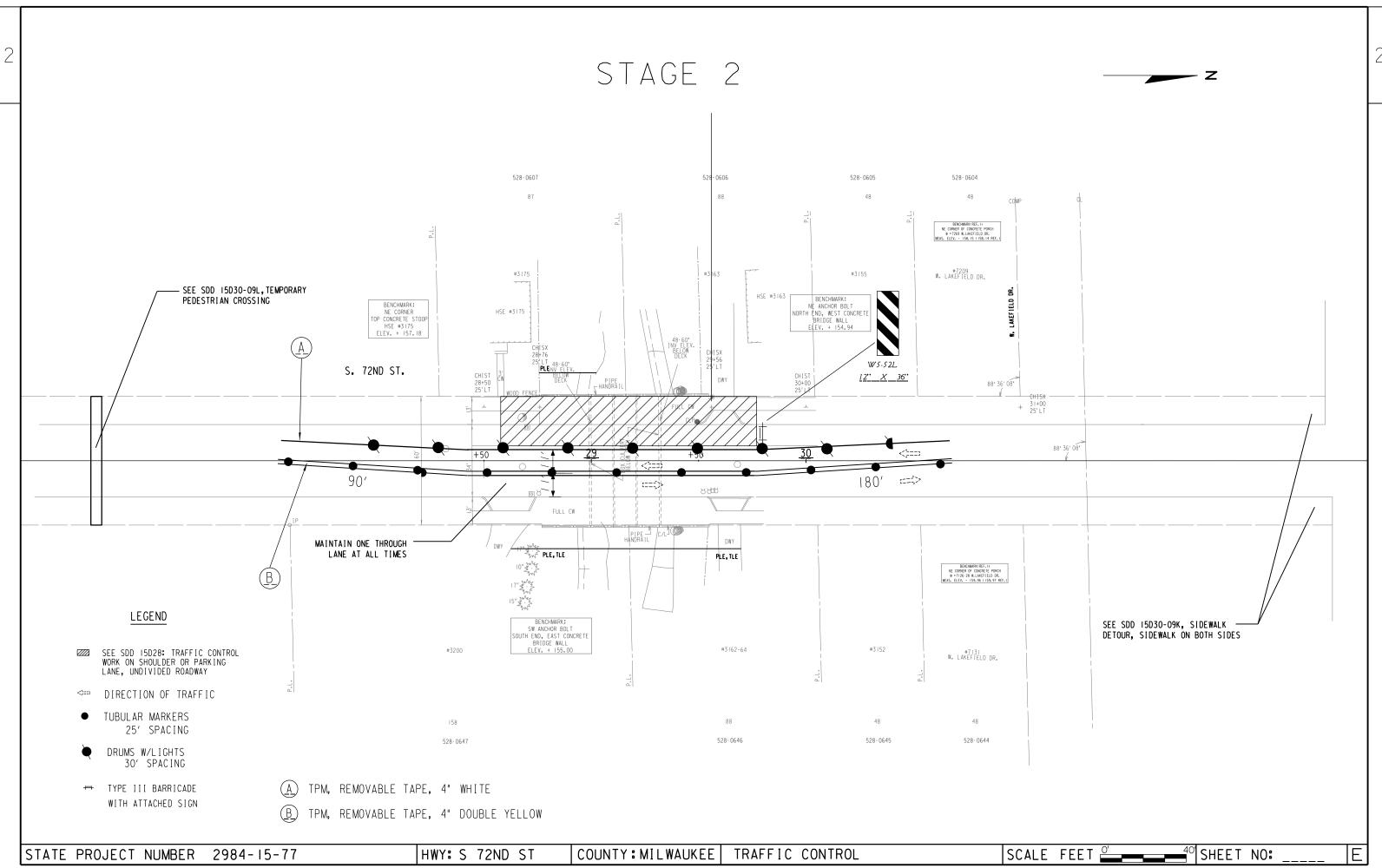
ĪΕ

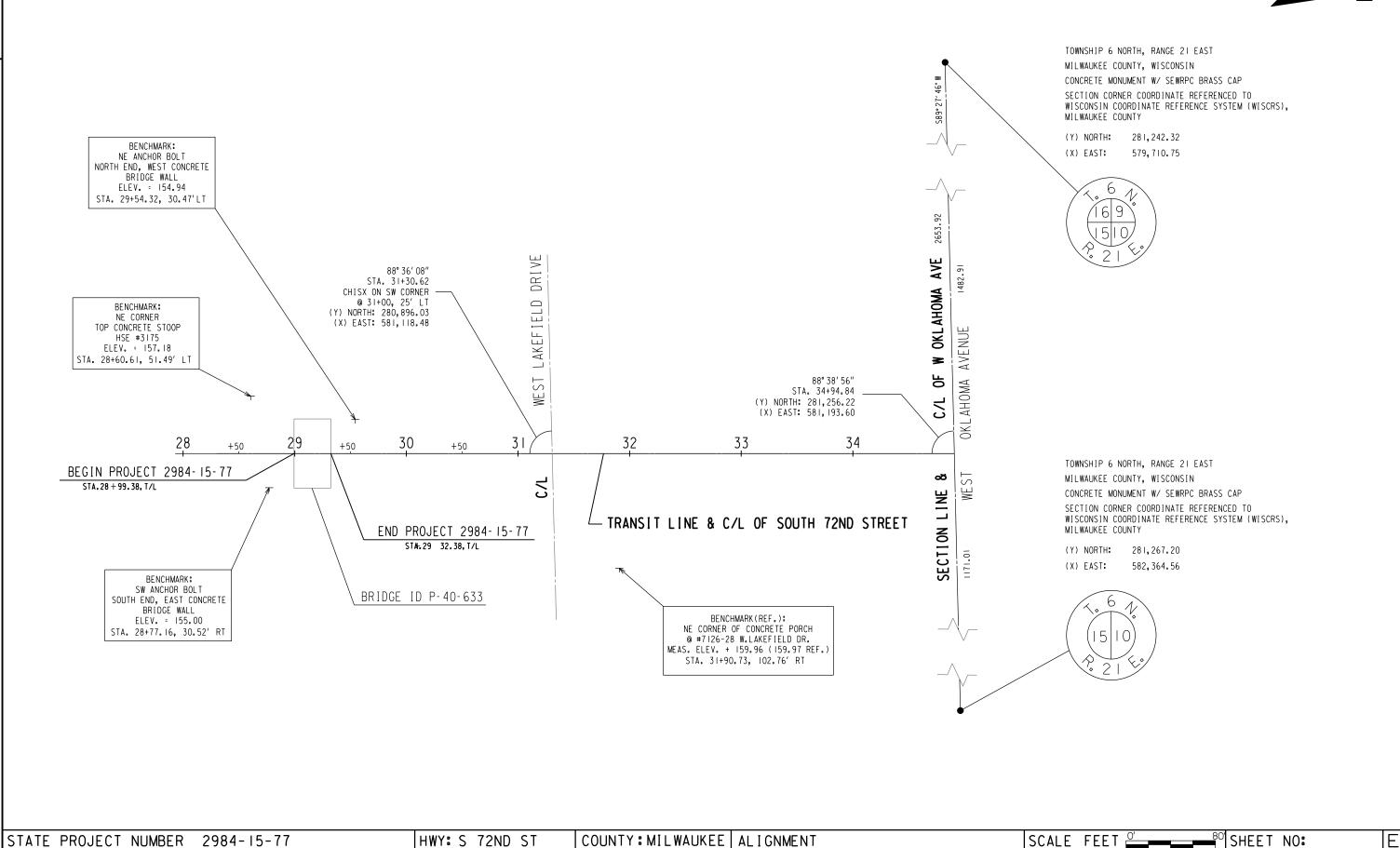
SHEET NO:

SCALE FEET









3 |

84-1	

					2304-13-11
Line	Item	Item Description	Unit	Total	Qty
0002	201.0110	Clearing	SY	65.000	65.000
0004	201.0210	Grubbing	SY	65.000	65.000
0006	204.0170	Removing Fence	LF	8.000	8.000
0008	205.0100	Excavation Common	CY	50.000	50.000
0010	509.1500	Concrete Surface Repair	SF	163.000	163.000
0012		•	LF	260.000	260.000
0014	509.9026.S		EACH	2.000	2.000
0016	616.0204	Fence Chain Link 4-FT	LF	8.000	8.000
0018	619.1000	Mobilization	EACH	1.000	1.000
0020	625.0100	Topsoil	SY	45.000	45.000
0022	628.1504	Silt Fence	LF	65.000	65.000
0024	628.1520	Silt Fence Maintenance	LF	65.000	65.000
0026	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0028	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0030	628.2023	Erosion Mat Class II Type B	SY	45.000	45.000
0032	628.6505	Soil Stabilizer Type A	ACRE	0.010	0.010
0034	628.7015	Inlet Protection Type C	EACH	2.000	2.000
0036	630.0130	Seeding Mixture No. 30	LB	1.000	1.000
0038	642.5201	Field Office Type C	EACH	1.000	1.000
0040	643.0300	Traffic Control Drums	DAY	1,800.000	1,800.000
0042	643.0420	Traffic Control Barricades Type III	DAY	576.000	576.000
0042	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	24.000	24.000
0044	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	24.000	24.000
0048	643.0715	Traffic Control Warning Lights Type C	DAY	1,800.000	1,800.000
0050	643.0900	Traffic Control Signs	DAY	1,728.000	1,728.000
0052	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	1,894.000	1,894.000
0052	643.3170	Temporary Marking Line Epoxy 6-Inch	LF	78.000	78.000
0056	643.5000	Traffic Control	EACH	1.000	1.000
0058	644.1410	Temporary Pedestrian Surface Asphalt	SF	90.000	90.000
0060	644.1430	Temporary Pedestrian Surface Plate	SF	90.000	90.000
0062	644.1601	Temporary Pedestrian Curb Ramp	DAY	144.000	144.000
0064	644.1605	Temporary Pedestrian Colib Kamp Temporary Pedestrian Detectable Warning Field	SF	20.000	20.000
0066	644.1810	Temporary Pedestrian Detectable Warning Field Temporary Pedestrian Barricade	LF	156.000	156.000
0068	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	900.000	900.000
0070	ASP.110A ASP.1T0G	On-the-Job Training Apprentice at \$5.00/HR On-the-Job Training Graduate at \$5.00/HR	HRS	450.000	450.000
		<u>-</u>	LF		160.000
0072	SPV.0090	Special 506. Remove, Repaint, and Reinstall Existing Bridge Railing	LF LF	160.000	
0074	SPV.0090	Special 570. Concrete Wall Repair	LF	26.000	26.000

3

EXCAVATION COMMON

CATEGORY 0020

205.0100
EXCAVATION
COMMON
CY

PROJECT 2984-15-77 50

TOTAL 50

CLEARING & GRUBBING

CATEGORY 0020

LOCATION

TOTAL

PROJECT 2984-15-77

201.0110 201.0210

CLEARING GRUBBING

SY SY

65 65

65

65

CHAIN LINK FENCE

CATEGORY 0020

| 204.0170 | 616.0204 | REMOVING | FENCE | FENCE | CHAIN LINK | 4-FT | LOCATION | LF | LF | | LF | | PROJECT 2984-15-77 | 8 | 8 | 8 |

8

8

TOTAL

MOBILIZATION EROSION CONTROL

CATEGORY 0010

EROSION CONTROL

	CAT. 0020 625.0100 TOPSOIL	CAT. 0020 628.1504 SILT FENCE	CAT. 0020 628.1520 SILT FENCE	CAT. 0020 628.2023 EROSION MAT CLASS II	CAT. 0010 628.7005 INLET PROTECTION	CAT. 0020 628.6505 SOIL STABILIZER	CAT. 0020 630.0130 SEEDING MIXTURE
LOCATION PROJECT 2984-15-77	SY 45	LF 65	MAINTENANCE LF 65	TYPE B SY 45	TYPE C EACH 2	TYPE A ACRE 0.01	No. 30 LB 1
TOTAL	45	65	65	45	2	0.01	1

PROJECT NO: 2984-15-77 HWY: S 72ND STREET COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E**

|LE NAME : ______ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

	CATEGORY 0020	CON (509.1500	CRETE REPAIR					
	CATEGORY 0020	509.1500						
	LOCATION	CONCRETE SURFACE REPAIR DETERRENT SYSTEM P-40-0633 SF	509.9025.S EPOXY INJECTION CRACK REPAIR P-40-0633 LF	509.9026.S CORED HOLES 2-INCH DIAMETER EACH	WALL REPAIR	SPV.0090.506 REMOVE, REPAINT, AND REINSTALL EXISTING BRIDGE RAILING LF		
	S 72ND STREET	163	260	2	26	160		
	TOTAL	163	260	2	26	160		
FIELD OF	FICE							
CATEGORY 0010	642.5201 FIELD OFFICE TYPE C				С	MOBILIZATI ATEGORY 0010	619.1000 MOBILIZATION	
LOCATION PROJECT 2984-15-77	EACH 1				PROJ	LOCATION ECT 2984-15-77	EACH 1	
TOTAL	1					TOTAL	1	

PLOT NAME : ____ PLOT SCALE : 1:1

TRAFFIC CONTROL ITEMS

CATEGORY 001	0													
		643.0	0300	643	.0420	643.0500	643.0600	643.0	0715	643.0	900	643.	3150	643.3170
						TRAFFIC	TRAFFIC	TRA	FFIC			TEMPO	DRARY	TEMPORARY
				TRA	AFFIC	CONTROL	CONTROL	CONT	TROL			MARKIN	IG LINE	MARKING LINE
		TRA	FFIC	CON	ITROL	FLEXIBLE	FLEXIBLE	WARI	NING	TRAF	FIC	REMO	VABLE	EPOXY
		CON	TROL	BARR	ICADES	TUBULAR	TUBULAR	LIGH	HTS	CONT	ROL	TAPE 4	4-INCH	6-INCH
		DRU	JMS	TYI	PE III	MARKER POSTS	MARKER BASES	TYP	EC	SIG	NS	(WHITE)	(YELLOW)	(WHITE)
LOCATION	DAYS	EACH	DAY	EACH	DAY	EACH	EACH	EACH	DAY	EACH	DAY	LF	LF	LF
STAGE 1	37	25	925	8	296	12	12	25	925	24	888	317	630	78
STAGE 2	35	25	875	8	280	12	12	25	875	24	840	317	630	0

24

1,800

PEDESTRIAN ACCOMODATION

1,728

1,894

78

TRAFFIC CONTROL

CATEGORY 0010

TOTAL

PROJECT TOTAL

643.5000
TRAFFIC
CONTROL
LOCATION
EACH

\$ 72nd Street

1

1

CATEGORY 0010

576

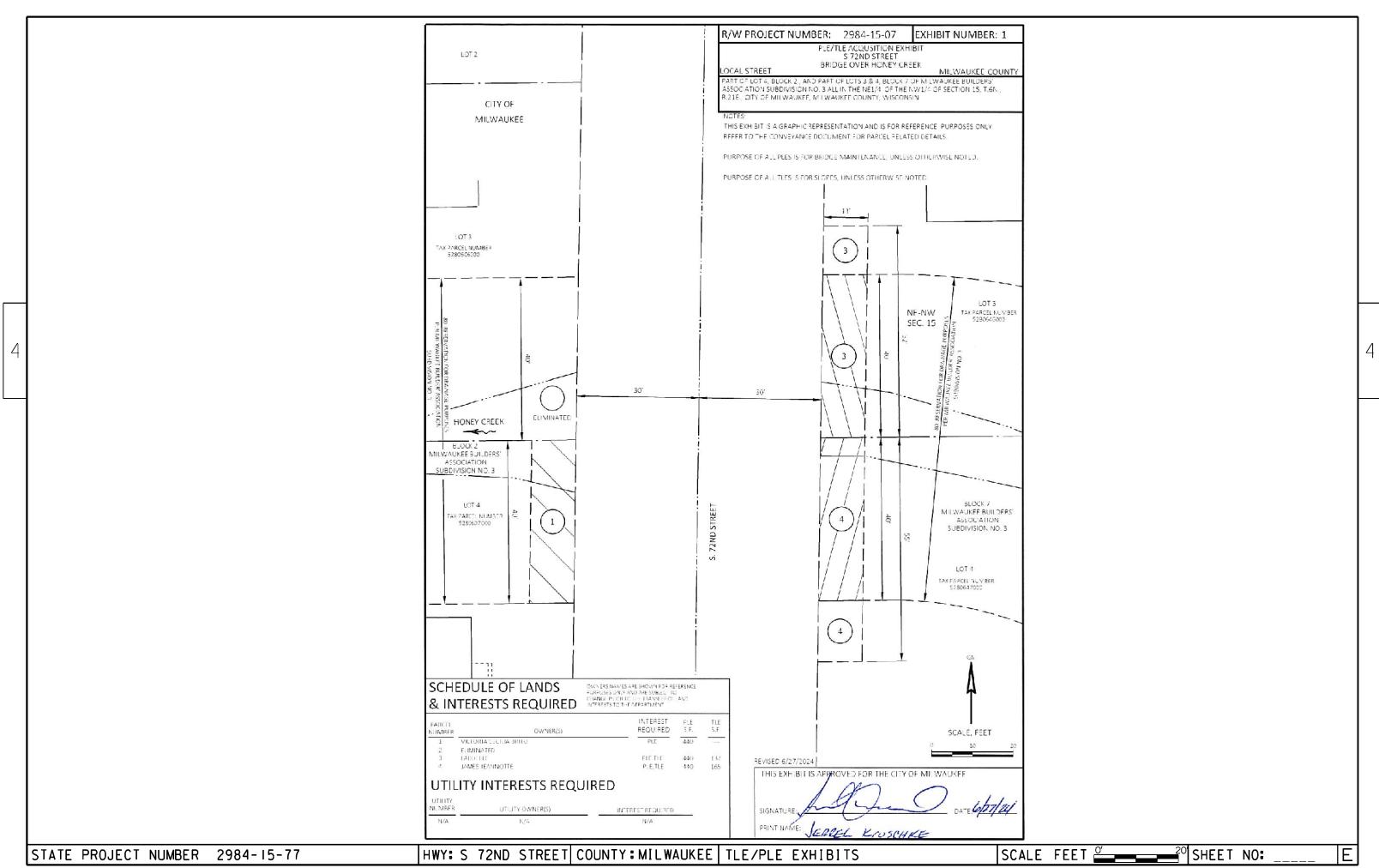
24

1,800

		644.1410	644.1430	644.1	1601	644.1605	644.1810	
		TEMPORARY	TEMPORARY	TEMPO	RARY	TEMPORARY	TEMPORARY	
		PEDESTRIAN	PEDESTRIAN	PEDES	TRIAN	PEDESTRIAN	PEDESTRIAN	
		SURFACE	SURFACE	CURB	RAMP	DETECTABLE	BARRICADE	
	_	ASPHALT	PLATE			WARNING FIELD		
LOCATION	DAYS	SF	SF	EACH	DAY	SF	LF	
STAGE 1	37	90	90	2	74	20	156	
STAGE 2	35	0	0	2	70	0	0	
PROJECT TOTAL	-	90	90		144	20	156	

PROJECT NO: 2984-15-77 HWY: S 72ND STREET COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E**

_E NAME : ______ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1



FILENAME: W:\STR\B0604\2024 REHAB\ROADS\SHEETS\MISC\EROSION CONTROL.DGN

Standard Detail Drawing List

08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-09K	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09L	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

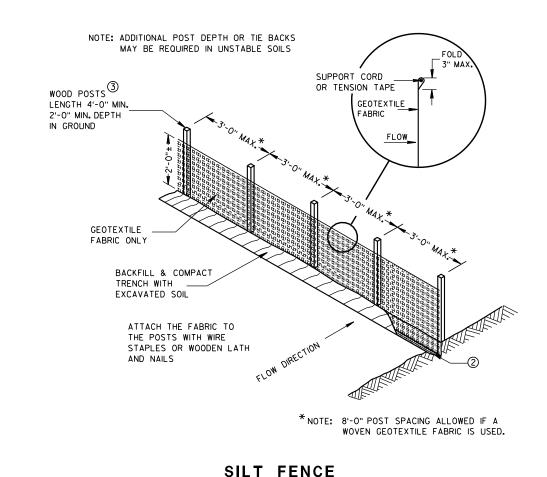
TYPICAL APPLICATION OF SILT FENCE

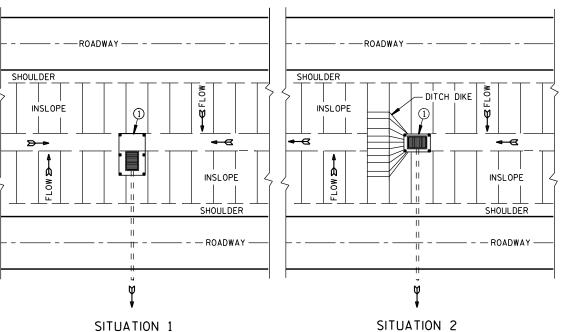
6

b

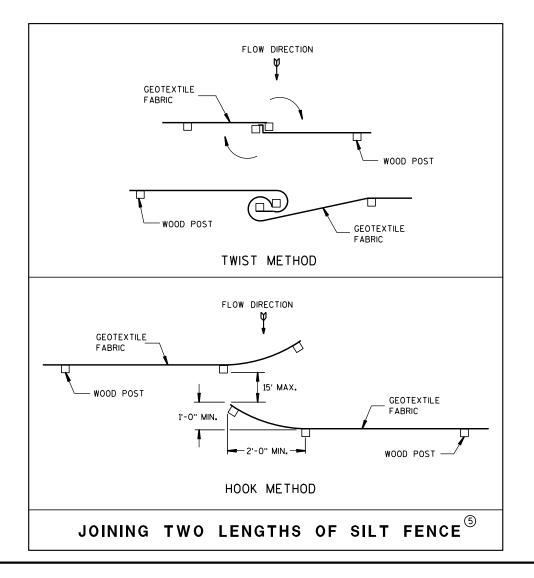
Ō

Ш





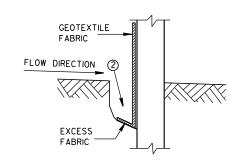
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



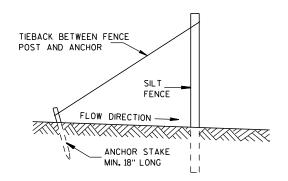
GENERAL NOTES

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 11/8" X 11/8" 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 TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

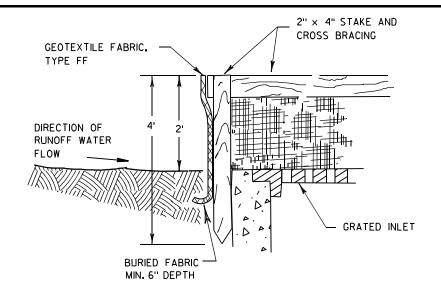
STATE OF WISCONSIN

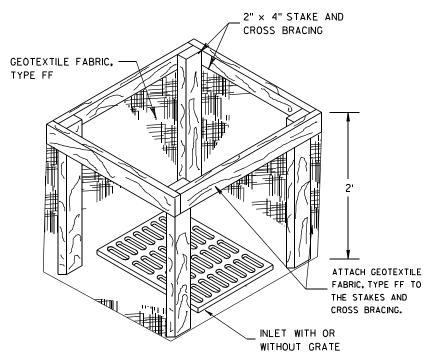
Ω

တ

 ∞

6





INLET PROTECTION, TYPE A

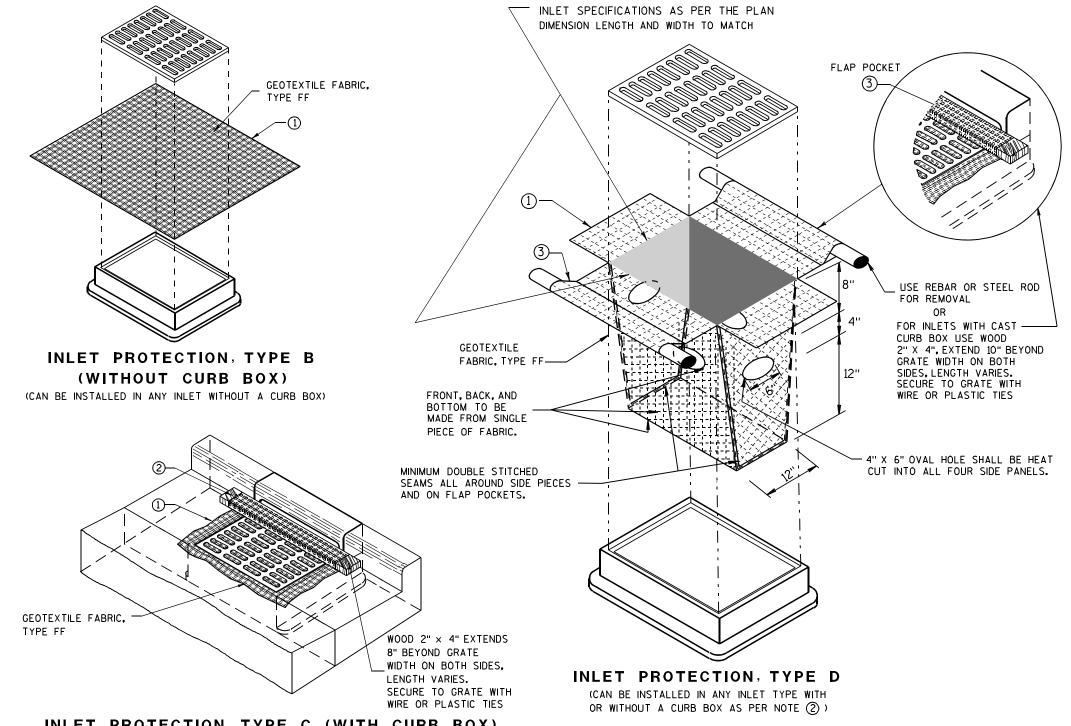
GENERAL NOTES

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

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.



INLET PROTECTION, TYPE C (WITH CURB BOX)

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 6

0

ш

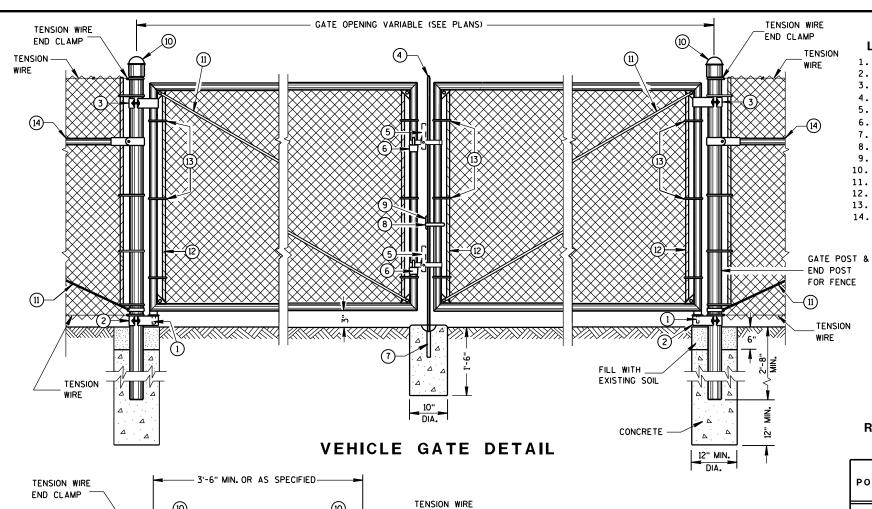
 ∞

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Beth Cannestra

10/16/02 CHIEF ROADWAY DEVELOPMENT ENGINEER



END CLAMP

EXISTING SOIL

PEDESTRIAN GATE DETAIL

CONCRETE

12" MIN.

CONCRETE

12" MIN.

TENSION

GATE POST &

END POST

FOR FENCE

TENSION -

GATE POST &

TENSION

END POST

FOR FENCE

6

D

Ö

 \Box

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL	LESS THAN OR EQUAL TO 6 FT.	SP3
POSTS **	GREATER THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EOUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
LINE POSTS	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE	TYPE
BRACE RAIL	SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

- LEGEND 1. STRAIGHT PLUG
- 2. BOTTOM HINGE
- TOP HINGE
- 4. PLUNGER ROD
- 5. FULCRUM LATCH
- 6. FORK CATCH *
- 7. PLUNGER ROD CATCH
- 8. LOCK KEEPER GUIDE
- 9. LOCK KEEPER
- 10. DOME TOPS
- 11. TRUSS RODS 12. TENSION BAR
- 13. TENSION BANDS 14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

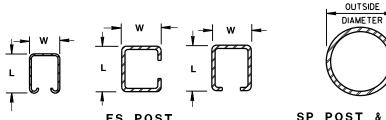
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W)	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT	
SP1	1.660	0.140	2.270	
SP2	1.900	0.145	2.720	
SP3	2.375	0.154	3.650	
SP4	2.875	0.203	5.800	
SP5	4.000	0.226	9.120	
SP6	6.625	0.280	18.990	
SP7	8.625	0.322	28.580	

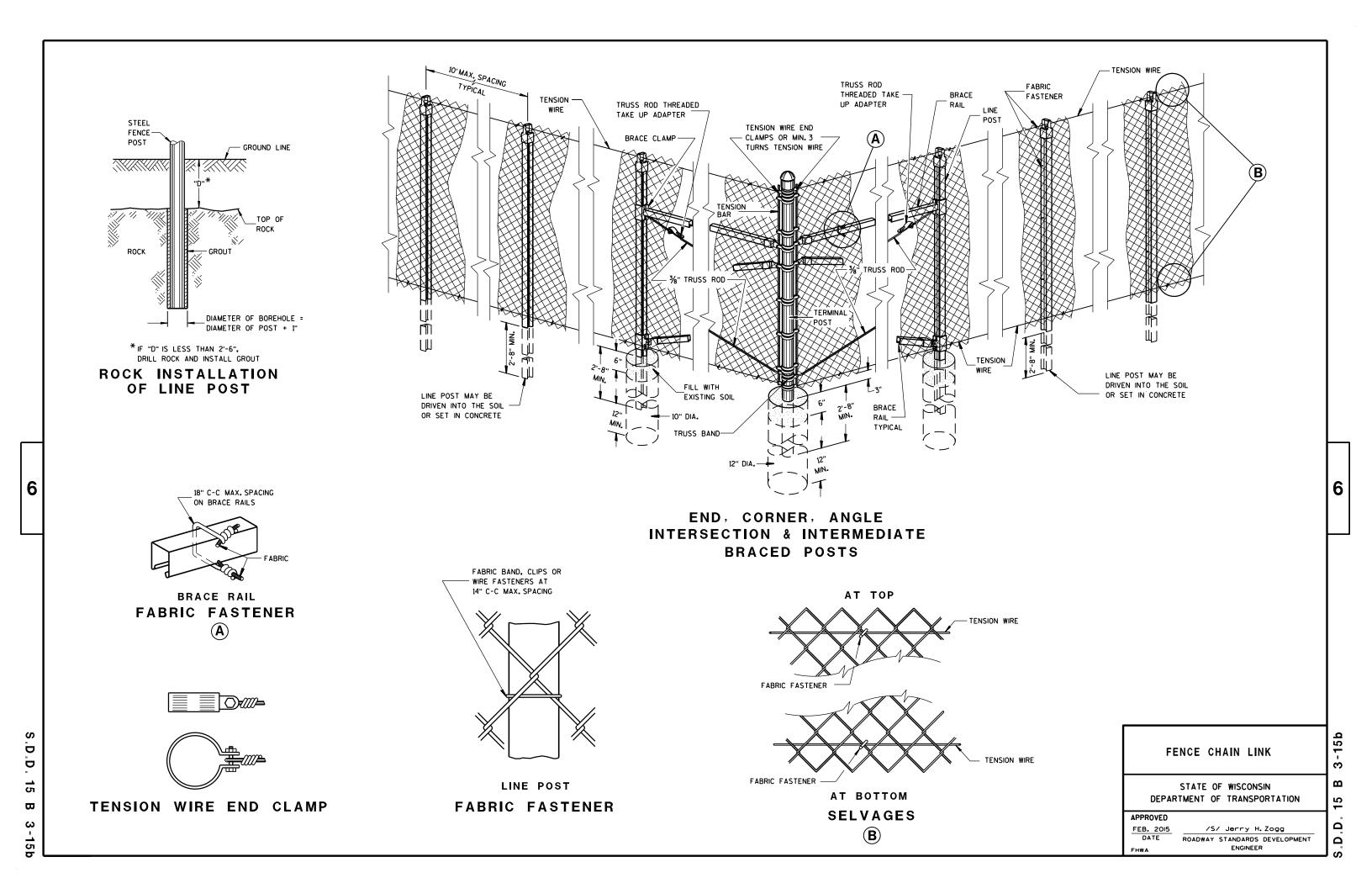
REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EOUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EOUAL TO 23 FT.	SP7

FENCE CHAIN LINK

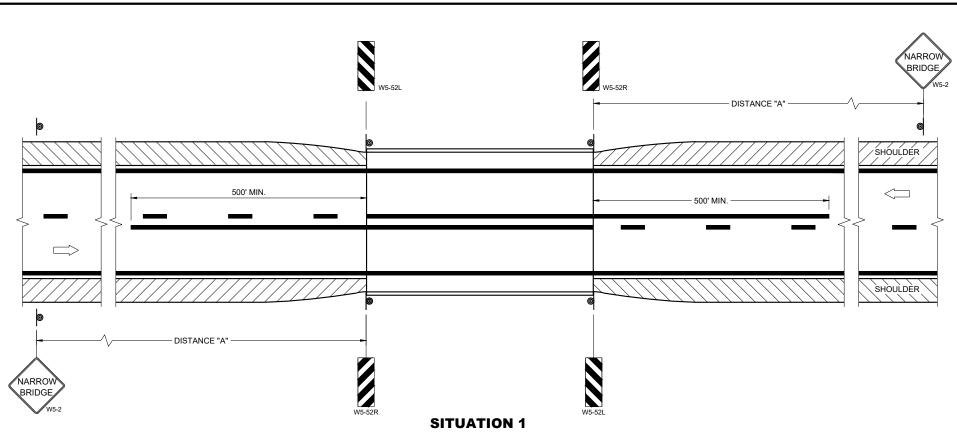
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION က

Ω





SDD 15C06-12



WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

OR SHOULDER SHOULDER WS-52R WS-52L

SITUATION 2

WARRANTING CRITERIA: 1. BRIDGE WIDTH IS AT LEAST 24 FEET <u>AND</u> 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

SDD

15C06-12

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

SIGNING AND MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2022 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER Ŋ

SDD

SDD 15C11

2" MAX.

4" MAX.

- WHITE 360° REBOUNDABLE
REFLECTIVE SHEETING

- FLEXIBLE ORANGE POST

FLUORESCENT ORANGE

The state of the state o

FLEXIBLE TUBULAR

FLEXIBLE TUBULAR

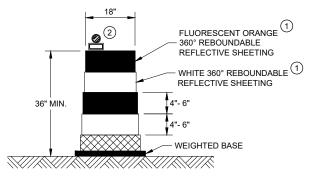
MARKER POST

WORK ZONE

SDD 15C11

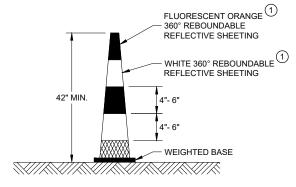
GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



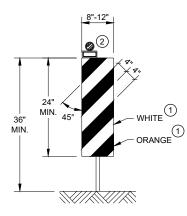
DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



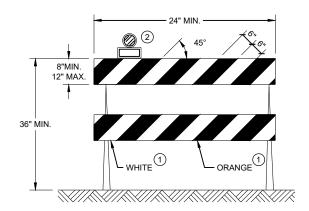
42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



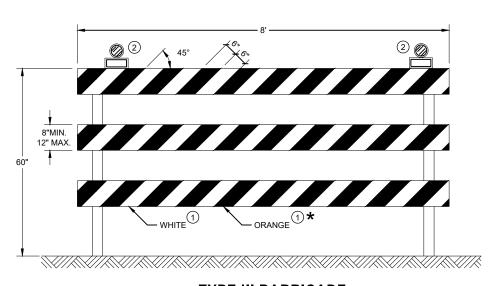
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

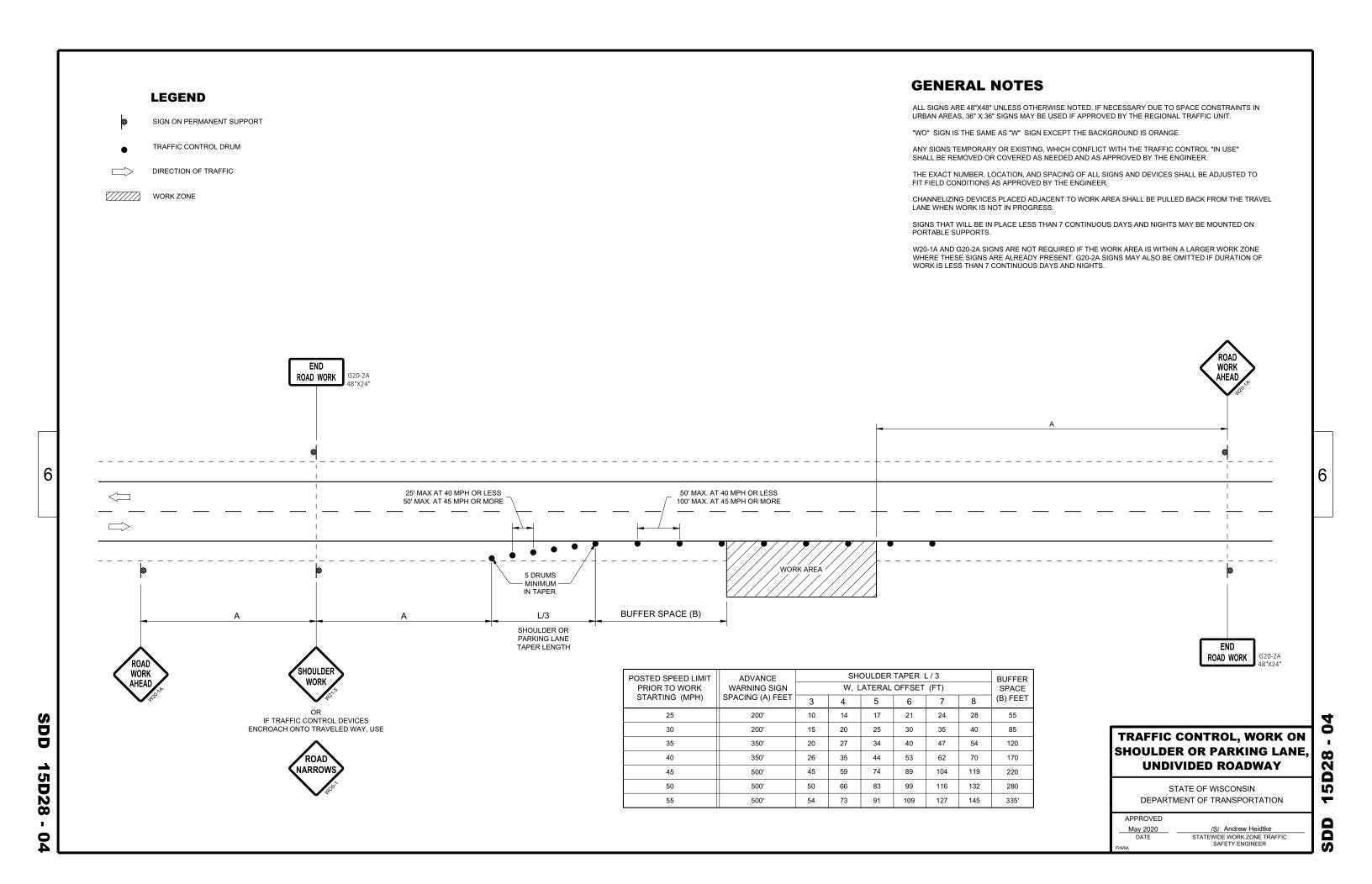
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

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



SDD 15D30

LEGEND

SIGN ON PERMANENT SUPPORT

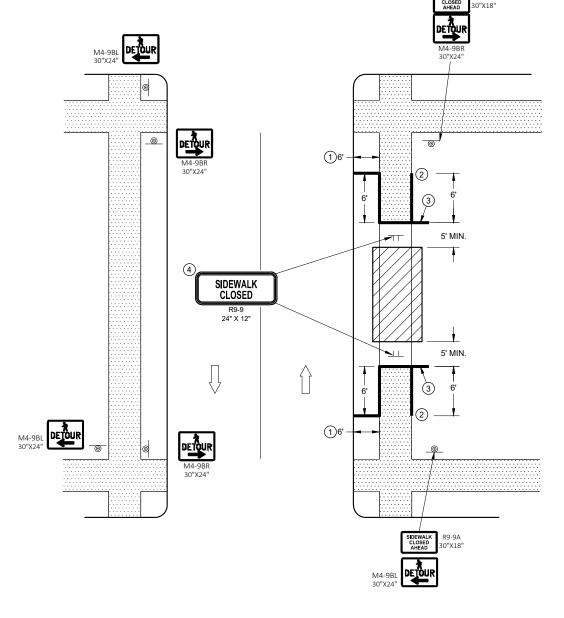
SIGN ON TEMPORARY SUPPORT

UNDER PEDESTRIAN TRAFFIC

WORK AREA

TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC



SIDEWALK DETOUR, SIDEWALK ON BOTH SIDES

GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

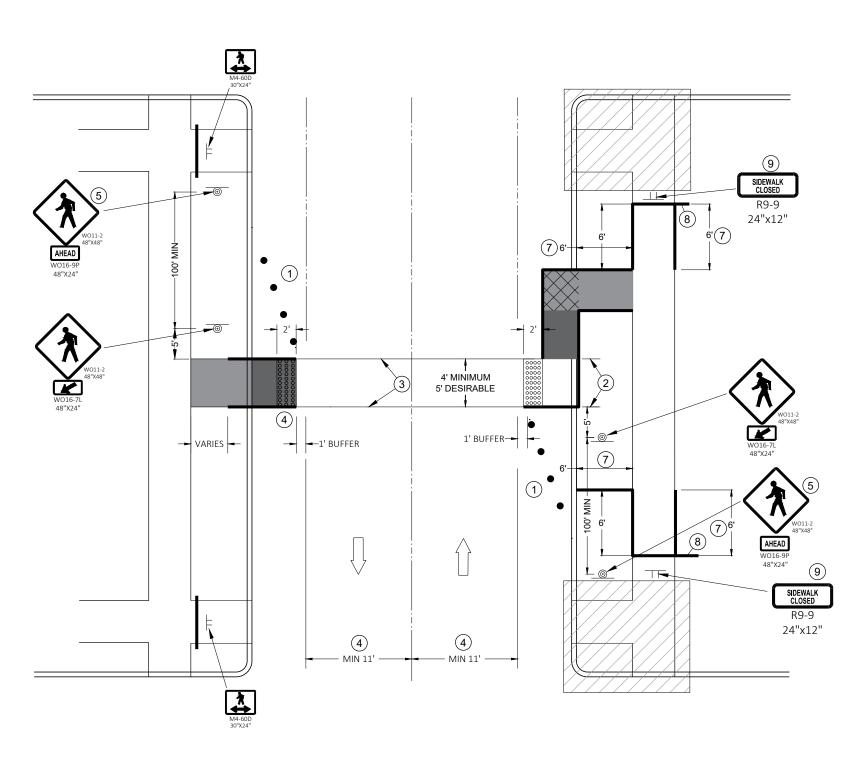
SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICT WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

- 1 IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
- (2) PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
- (3) IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
- 4 MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



TEMPORARY PEDESTRIAN CROSSING

SDD

15D30

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

SEE OTHER PEDESTRIAN ACCOMMODATION DETAILS FOR SIGNING AND DEVICES FOR DIFFERENT PEDESTRIAN FACILITIES CLOSURES.

- (1) SHOULDER OR LANE CLOSURE ADVANCED WARNING AND PROPER BUFFER SPACE REQUIRED.
- 2 4 FEET MINIMUM, 5 FEET DESIRABLE.
- (3) WHITE 6" TEMPORARY PAVEMENT MARKING.
- (4) IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, PERPENDICULAR CURB RAMPS MAY NEED TO BE UTILIZED.
- (5) IF MINIMUM 100' SPACING FROM THE MID-BLOCK CROSSING CANNOT BE ATTAINED BEFORE THE INTERSECTION, REMOVE THIS SIGN ASSEMBLY.
- 6 IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
- 7 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.
- (8) IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF THE EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
- (9) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF THE SIGN.

LEGEND

■ TRAFFIC CONTROL DRUM

SIGN ON TEMPORARY SUPPORT

TEMPORARY CURB RAMP

TEMPORARY DETECTABLE WARNING FIELD

TEMPORARY PEDESTRIAN SURFACE "A"

TEMPORARY PEDESTRIAN SURFACE "B"

WORK AREA

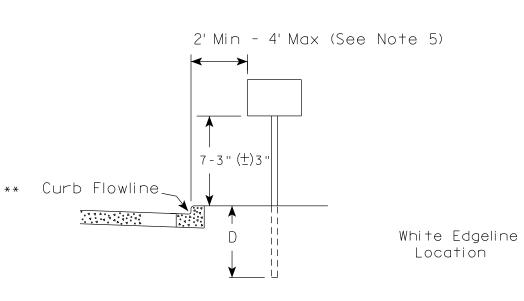
TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC

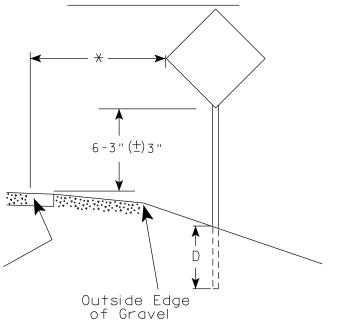
TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION





RURAL AREA (See Note 2)



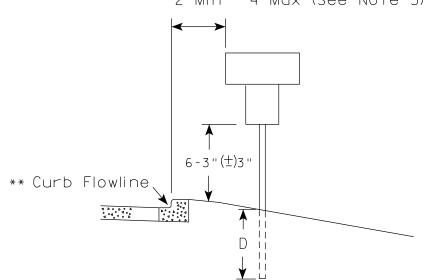
GENERAL NOTES

- 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" (\pm) 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" (\pm) 3".

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

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

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.

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. __A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



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



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

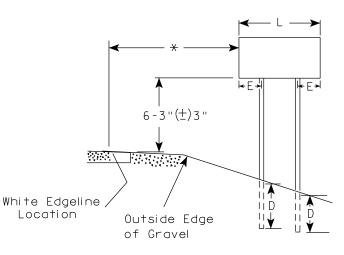
PLOT NAME :

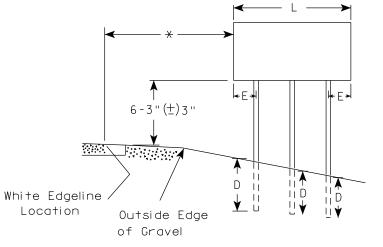
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

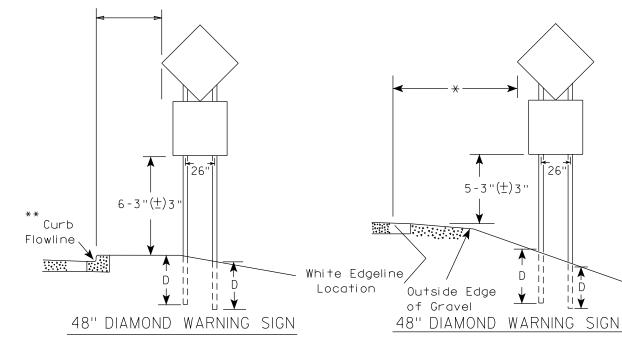
APPROVED

WISDOT/CADDS SHEET 42





2'Min - 4'Max (See Note 6)



	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E	
* * *	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

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" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\times \times \times$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CHEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr_stdplate\A44.dgn

PROJECT NO:

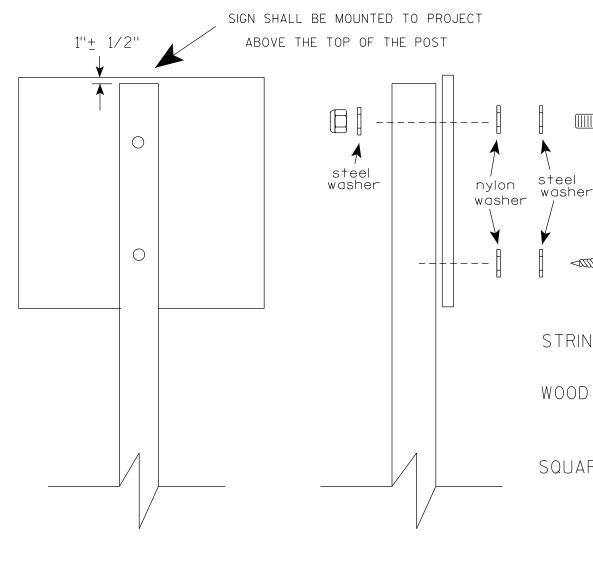
COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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 - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

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 - 1/32 " (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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " 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 Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

PROJECT NO:



PROJECT NO: HWY: COUNTY: SHEET NO: 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

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

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 $\frac{3}{4}$ " 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



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PROJECT NO:

VIEW FROM TOP

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, $\frac{3}{4}$ " 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 $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $\frac{2}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Manher R

APPROVED

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

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PROJECT NO:

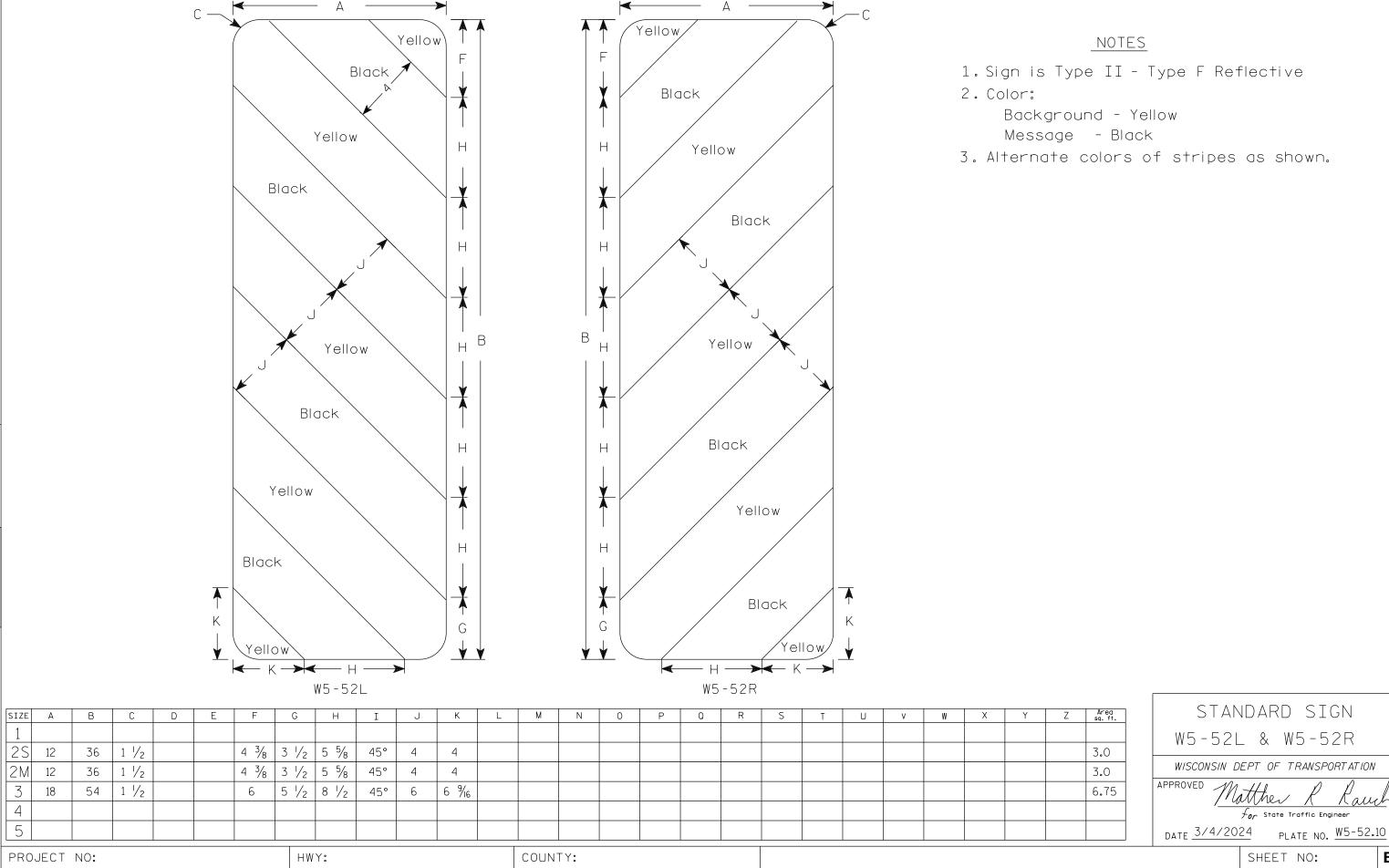
PLOT DATE: 19-APRIL 2022 11:55

SIGN

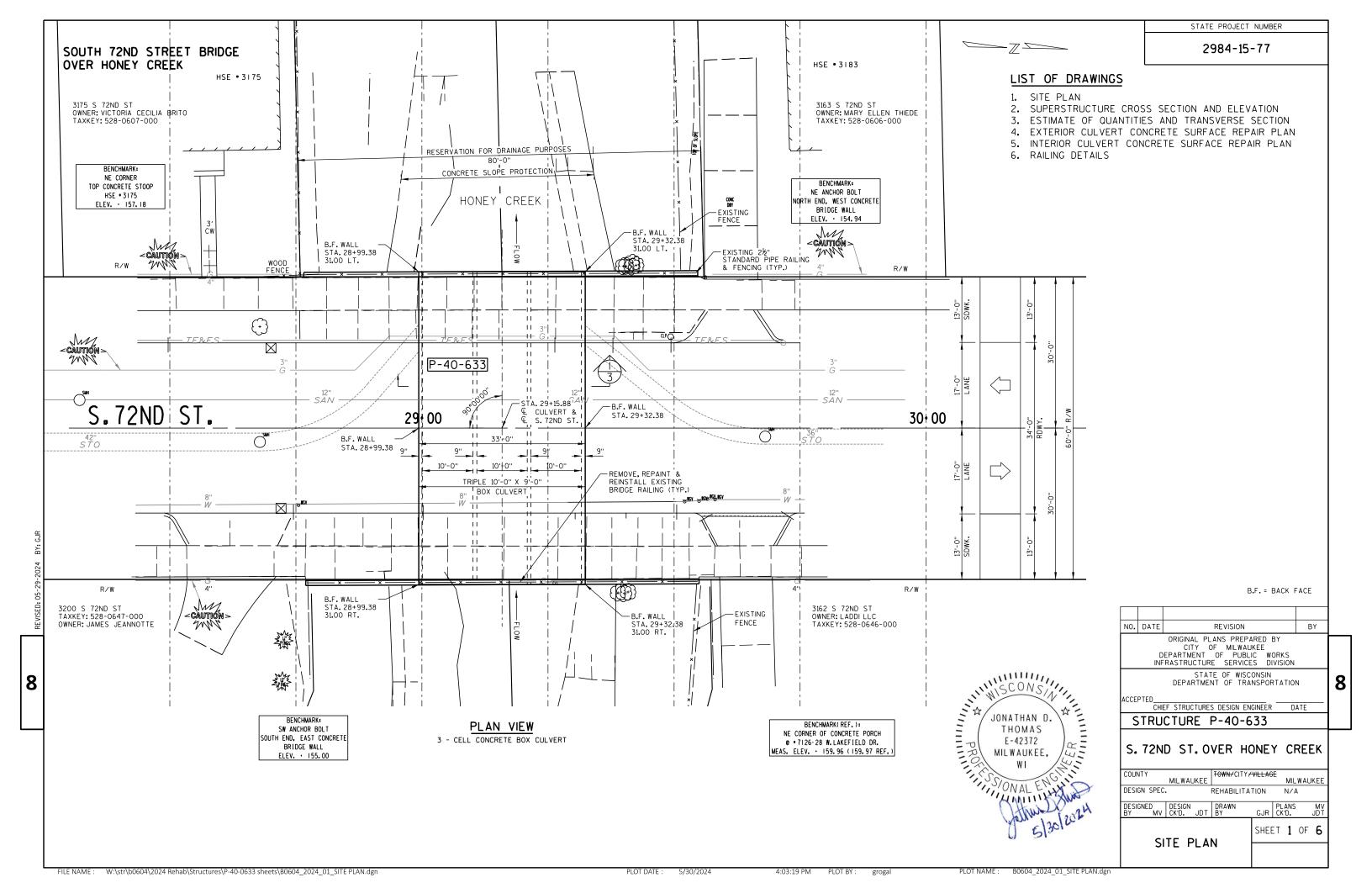
PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

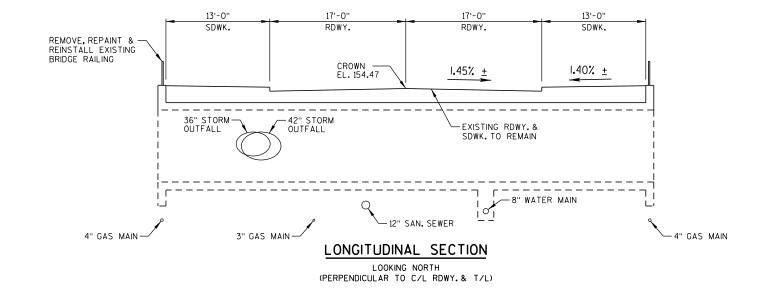


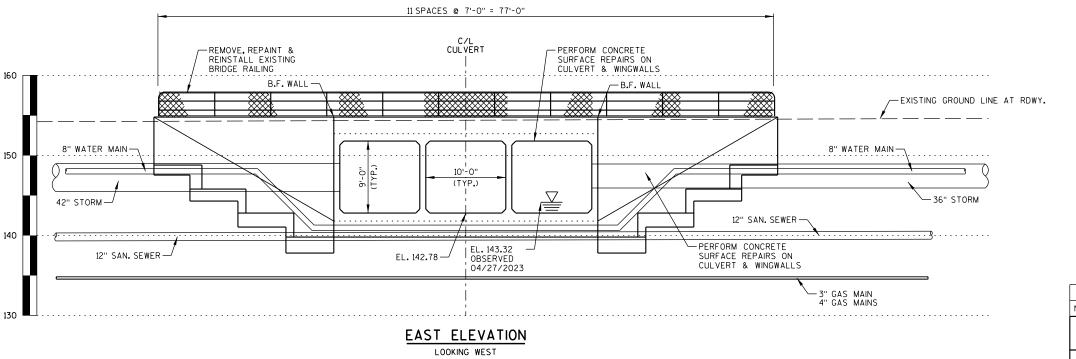
PLOT DATE: 4-MARCH 2024 11:57 PLOT NAME : PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42 PLOT BY : dotc4c



STATE PROJECT NUMBER

2984-15-77





NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-40-633

DRAWN
BY
GJR PLANS JMV
CK'D. JDT
SUPERSTRUCTURE
CROSS SECTION
AND ELEVATION

8

B.F. = BACK FACE

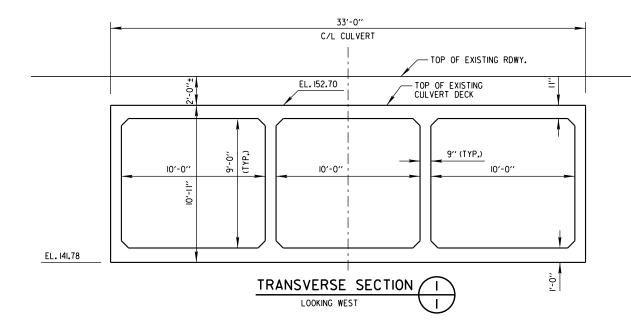
FILE NAME: W:\str\b0604\2024 Rehab\Structures\P-40-0633 sheets\B0604_2024_02_SUPERSTRUCTURE CROSS SECTION AND ELEVATION.dgn

8

PLOT DATE: 5/30/2024

3:32:17 PM PLOT BY: gros

PLOT NAME : B0604_2024_02_SUPERSTRUCTURE CROSS SECTION AND ELEVATION.d{



ESTIMATE OF QUANTITIES

ITEM NO.	BID ITEM	UNIT	CULVERT	TOTAL
205.0100	EXCAVATION COMMON	CY	50	50
509.1500	CONCRETE SURFACE REPAIR	SF	163	163
509.9025.S	EPOXY INJECTION CRACK REPAIR	LF	260	260
509.9026.5	CORED HOLES 2-INCH DIAMETER	EACH	2	2
SPV.0090.506	REMOVE, REPAINT, AND REINSTALL EXISTING BRIDGE RAILING	LF	160	160
SPV.0090.570	CONCRETE WALL REPAIR	LF	26	26
	NON-BID ITEMS			
	NAME PLATE		·	
	NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER			

DESIGN DATA

DEAD LOAD

CONCRETE = 150 LB/CF OVERBURDEN = 2'-0"

LIVE LOAD

TAKEN FROM HSI, 5/29/2024 INVENTORY RATING : HS-I2 OPERATING RATING: HS-20 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 170 KIPS

MATERIAL PROPERTIES

CONCRETE MASONRY CULVERTS f'c = 3,500 PSI

TRAFFIC VOLUME

ADT (2023) = 747 ADT (2035) = 1,260 R.D.S. = 25 MPH

PROJECT IMPROVEMENTS

- THE BRIDGE REHABILITATION PROJECT, AS PROPOSED, CONSISTS OF: - SURFACE REPAIRS TO THE CULVERT UNDERSIDE OF DECK, CELL WALLS AND WINGWALLS.
- EPOXY INJECTION OF UNDERSIDE OF DECK AND CELL WALLS. - REMOVAL, REPAINTING AND REINSTALLING EXISTING BRIDGE RAILING WITH NEW FENCE FABRIC.

GENERAL NOTES

ALL STATIONS & ELEVATIONS ARE IN FEET.

ELEVATIONS ARE REFERRED TO CITY OF MILWAUKEE DATUM. CITY OF MILWAUKEE DATUM = 580.60 NGVD.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

BEVEL EXPOSED CONCRETE EDGES $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

SEE ROADWAY PLANS FOR EXISTING AND PROPOSED UTILITY LOCATIONS.

LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

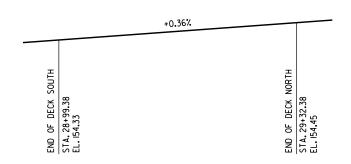
THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1-INCH DEEP SAWCUT, UNLESS SPECIFIED OTHERWISE.

PAINT FOR STEEL TO MATCH AMS STANDARD NO. 595A COLOR

THE CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION AND DETERMINATION OF ALL CONCRETE SURFACE AND CRACK REPAIR LOCATIONS WITH THE ENGINEER.

DO NOT INJECT CRACKS LESS THAN 0.05" WIDE.



PROFILE GRADE LINE OF SOUTH 72ND STREET

NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE P-40-633 ESTIMATE OF SHEET 3 OF 6 QUANTITIES AND TRANSVERSE SECTION

8

FILE NAME: W:\str\b0604\2024 Rehab\Structures\P-40-0633 sheets\B0604_2024_03_ESTIMATE OF QUANTITIES AND TRANSVERSE SECTION.dgn

PLOT DATE: 5/30/2024

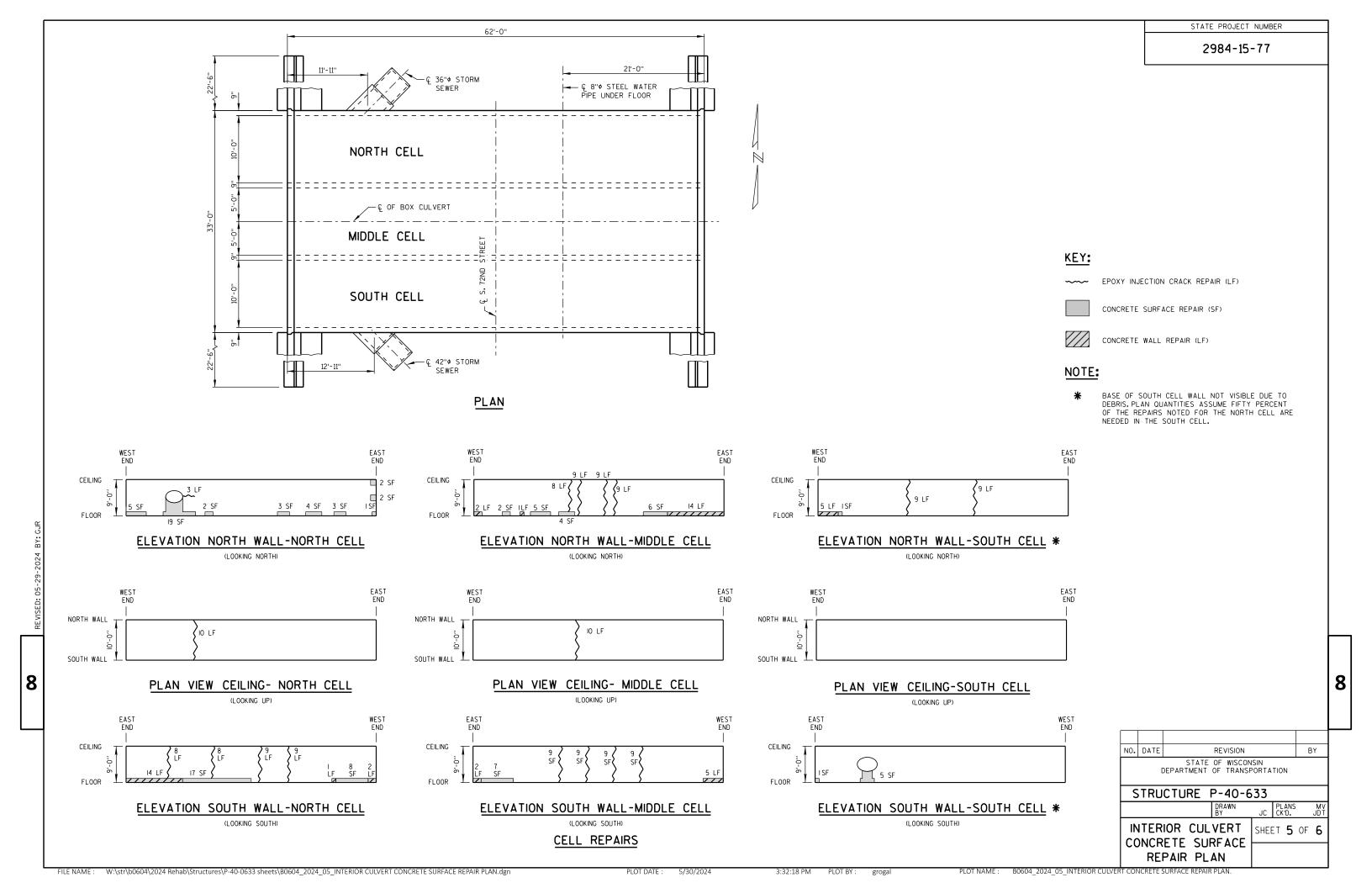
3:32:17 PM PLOT BY: grogal

STATE PROJECT NUMBER 2984-15-77 22'-6" 22'-6" 33'-0" — EXISTING GROUND LINE ─DEBRIS FILLED EAST ELEVATION LOOKING WEST 22'-6" 33'-0" 22'-6" — EXISTING GROUND LINE KEY: EPOXY INJECTION CRACK REPAIR (LF) IO SF CONCRETE SURFACE REPAIR (SF) CONCRETE WALL REPAIR (LF) 8 DEBRIS FILLED — WEST ELEVATION LOOKING EAST NO. DATE BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE P-40-633 EXTERIOR CULVERT CONCRETE SURFACE

FILE NAME: W:\str\b0604\2024 Rehab\Structures\P-40-0633 sheets\B0604_2024_04_EXTERIOR CULVERT CONCRETE SURFACE REPAIR PLAN.dgn PLOT DATE: 5/30/2024 3:32:17 PM PLOT BY: grogal PLOT NAME: B0604_2024_04_EXTERIOR CULVERT CONCRETE SURFACE REPAIR PLAN.dgn

REPAIR PLAN

8



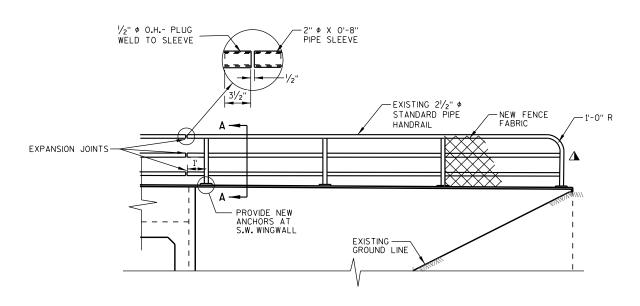
2984-15-77

11 SPACES @ 7'-0" = 77'-0" HANDRAIL POST SPACING REMOVE, REPAINT & -REINSTALL EXISTING BRIDGE RAILING EXPANSION JOINTS --EXPANSION JOINTS _-____

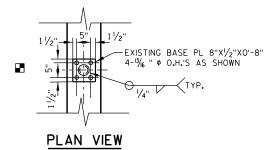
HANDRAIL DETAILS

ELEVATION

SEE ALSO "ELEVATION VIEW"



ELEVATION VIEW



SECTION A-A

GENERAL NOTES

POSTS ARE TO BE SET VERTICAL.

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL WITH A COLORED POLYMER COATING ON THE OUTSIDE.

FABRIC SHALL CONFORM TO ASTM F668, CLASS 2B, STEEL RAILS, POSTS, AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40). FITTING SHALL CONFORM TO ASTM F626. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.

PAINT FOR STEEL TO MATCH AMS STANDARD NO.595A COLOR NO.24062

THE BID ITEM SHALL BE "REMOVE, REPAINT, REINSTALL EXISTING BRIDGE RAILING". LF.

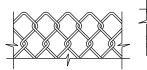
COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

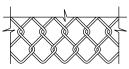
ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF THE POST.

- CAULK AROUND PERIMETER OF BASE PLATE AND FILL PORTION OF SLOTTED HOLE AROUND ANCHOR BOLT IN SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT
- ATTACH FABRIC TO RAILS, AND TO POSTS WITHOUT TENSION BANDS, WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT I'-O''.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.

ALTERNATE ANCHORAGE: CONCRETE ADHESIVE ANCHORS $\frac{1}{2}$ -INCH. EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.



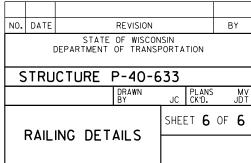


TOP DETAIL

BOTTOM DETAIL

FENCE FABRIC

FENCE FABRIC WOVEN OF 9-GAGE WIRE IN 2"
DIAMOND PATTERN MESH WITH BOTH THE TOP AND BOTTOM SELVAGES KNUCKLED.



FILE NAME: W:\str\b0604\2024 Rehab\Structures\P-40-0633 sheets\B0604_2024_06_RAILING DETAILS.dgn

-NEW FENCE FABRIC

-EXISTING BASE PL

8"X¹/₂"X0'-8"

-NEW LEAD PL 8"X¹/₈"X0'-8" -NEW 2-5/8" PX1'-0"

ANCHOR BOLTS

SET 11/2" ABOVE CONC.

EXISTING 21/2"\$ STANDARD PIPE

8

PLOT DATE : 5/30/2024 3:32:18 PM PLOT BY :

PLOT NAME : B0604_2024_06_RAILING DETAILS.dgn 8



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov