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30-26-9 030-06-6

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AUG 2016

ORDER OF SHEETS

Section No. 1 Section No. 2

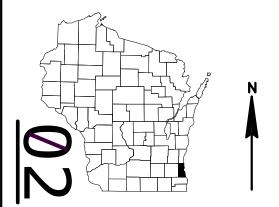
Typical Sections and Details Estimate of Quantities Section No. 3 Section No. 3 Miscellaneous Quantities

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 = 68



DESIGN DESIGNATION IH 94 AT LAYTON AVENUE

A.A.D.T. 2009 = 166,480 A.A.D.T. 2035 = 190,710 D-H-V-= 16,210 = 58 NB/42 SB = 14%

DESIGN SPEED = 60 MPH

= 50,530,600 RIGID DESIGN **ESALS**

CONVENTIONAL SYMBOLS

PROFILE PLAN CORPORATE LIMITS GRADE LINE ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE **ELECTRIC** EXISTING CULVERT OVERHEAD UTILITY PROPOSED CULVERT FIBER OPTIC GAS COMBUSTIBLE FLUIDS SANITARY SEWER STORM SEWER TELEPHONE MARSH AREA WATER UTILITY PEDESTAL Д

POWER POLE

TELEPHONE POLE

₫

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

N-S FREEWAY,

FRICTION TREATMENT

IH 94 NB & SB, 6TH ST TO HOWARD AVE

IH 43/94

MILWAUKEE COUNTY

STATE PROJECT NUMBER

1030-26-91

STRUCTURES

B-40-830 B-40-831

N-S FREEWAY, CITY OF MILWAUKEE

PLAINFIELD CURVE

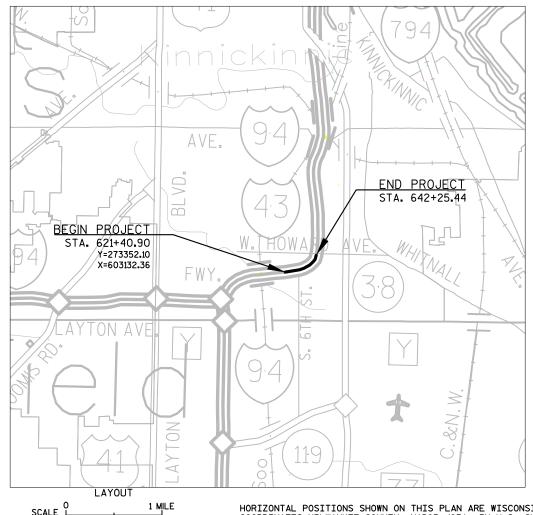
IH 43/94

MILWAUKEE COUNTY

STATE PROJECT NUMBER 1030-06-67

N-40-40

NOISE WALLS RETAINING WALLS R-40-398



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD83 (97), IN U.S. SURVEY FEET. VALUES 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 NORTH AMERICAN VERTICAL DATUM OF 1988 (91) (NAVD 88 (91)).

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY Surveyor Designer EYAD GHAN Project Manage WAFA ELQAQ APPROVED FOR THE DEPARTMENT DATE: <u>06/</u>01/16 Ε

FEDERAL PROJECT

CONTRACT

PROJECT

STATE PROJECT

1030-26-91

1030-06-67

TOTAL NET LENGTH OF CENTERLINE = 0.395 MI

PLOT DATE: 5/24/2016 12:36 PM

WOODED OR SHRUB AREA

UTILITY CONTACTS

AT&T LOCAL NETWORK - COMMUNICATION LINE

MS. CRYSTAL STRAIT 6070 N. FLINT ROAD GLENDALE, WI 53209 PHONE: (414) 459-3572 c.strait@northwindtech.com

AT&T WISCONSIN - COMMUNICATION LINE

MR. MARK EDER 2005 PEWAUKEE ROAD WAUKESHA, WI 53188-2443 PHONE: (262) 896-7434 me1754@att.com

CITY OF MILWAUKEE - ELECTRICITY

MR. JEFFREY POLENSKE ROOM 701 841 N. BROADWAY MILWAUKEE, WI 53202 PHONE: (414) 286-2400 jeffrey.polenske@Milwaukee.gov

LEVEL 3 COMMUNICATIONS, LLC - COMMUNICATION LINE

NETWORK RELOCATIONS 1025 ELDORADO BOULEVARD BROOMFIELD, CO 80021 level3.networkrelocation@Level3.com

McLEOD USA TELCOMMUNICATION SERVICES INC -

COMMUNICATION LINE MR. AARON GRODI

13935 BISHOPS DRIVE BROOKFIELD, WI 53005 PHONE: (608) 819-5014 aaron.grodi@windstream.com

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT - SEWER

MS. DEBRA JENSEN 260 W. SEEBOTH STREET MILWAUKEE, WI 53204-1446 PHONE: (414) 272-5100 djensen@mmsd.com

TDS METROCOM - COMMUNICATION LINE

MR. MATTHEW SCHULTE 16924 W. VICTOR ROAD NEW BERLIN, WI 53151 PHONE: (262) 754-3063 matt.schulte@tdstelecom.com

TIME WARNER CABLE – COMMUNICATION LINE

MR. STEVE CRAMER
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212-4002
PHONE: (414) 277-4045
wis.engineering@twcable.com

WE ENERGIES - ELECTRICITY

MR. LaTROY BRUMFIELD 333 W. EVERETT STREET – ROOM A299 MILWAUKEE, WI 53203 PHONE: (414) 221-5617 latroy.brumfield@we-energies.com

WE ENERGIES - GAS/PETROLEUM

MR. LaTROY BRUMFIELD 333 W. EVERETT STREET – ROOM A299 MILWAUKEE, WI 53203 PHONE: (414) 221-5617 latroy.brumfield@we-energies.com

<u>WISCONSIN DEPARTMENT OF TRANSPORTATION</u> – COMMUNICATION LINE

MR. JEFF MADSON SUITE 300 433 W. ST. PAUL AVENUE MILWAUKEE, WI 53203-3007 PHONE: (414) 225-3723 jeffrey.madson@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION

- STREET LIGHTING
MR. ERIC PEREA
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
PHONE: (262) 574-5422
eric.perea@dot.wi.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION

MR. EYAD GHANI - PROJECT MANAGER 141 NW BARSTOW ST. WAUKESHA, WI 53187-0798 PHONE: (262) 548-8756 eyad.ghani@dot.wi.gov

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

MS. KRISTINA BETZOLD - ENVIRONMENTAL SPECIALIST 2300 N. MARTIN LUTHER KING JR. DRIVE MILWAUKEE, WI 53212 PHONE: (414) 263-8517 CELL: (414) 507-4946 kristina.betzold@wisconsin.gov



GENERAL NOTES

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

CONTRACTOR SHALL PLACE TEMPORARY LANE LINE PAVEMENT MARKINGS FOLLOWING PLACEMENT OF THE HIGH FRICTION SURFACE TREATMENT.

TRAFFIC CONTROL ITEM 643.0100 INCLUDES ALL LANE CLOSURES.

ORDER OF SECTION 2 DETAIL SHEETS

UTILITY CONTACTS GENERAL NOTES PROJECT OVERVIEW TYPICAL SECTIONS CONSTRUCTION DETAILS PLAN DETAILS/EROSION CONTROL PERMANENT SIGNING PLAN PAVEMENT MARKING PLAN TRAFFIC CONTROL DETOUR PLAN ALIGNMENT LAYOUT

PLOT NAME:

STANDARD ABBREVIATIONS

AEW APRON END WALL AGG AGGREGATE BAD BASE AGGREGATE DENSE

BM **BENCH MARK** C&G **CURB AND GUTTER**

C/L OR CENTER OR CONSTUCTION LINE CMCP CULVERT PIPE CORRUGATED METAL

CONC CONCRETE CP CULVERT PIPE

CPRC CULVERT PIPE REINFORCED CONCRETE

CSD CONCRETE SURFACE DRAIN

CY **CUBIC-YARD** DEGREE OF CURVE D DELTA Λ DISCH DISCHARGE FIELD ENTRANCE FE HOT MIX ASPHALT HMA

INV INVERT LENGTH OF CURVE

LHF LEFT HAND FORWARD LT LEFT

MINIMUM MIN M/L MATCHLINE NORTHBOUND NB NC NORMAL CROWN **PAVT PAVEMENT** PC POINT OF CURVE

POINT OF COMPOUND CURVE PCC PΕ PRIVATE ENTRANCE Ы POINT OF INTERSECTION PLE PERMANENT LIMITED EASMENT

PT POINT OF TANGENT RADIUS OF CURVE R R/L REFERENCE LINE R/W RIGHT OF WAY RC REVERSE CROWN

RCAEW APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE

REQD REQUIRED

RIGHT HAND FORWARD RHF RO RUN OFF LENGTH RAILROAD SPIKE **RRSP** RT RIGHT SALV SALVAGED

SAPBC SALVAGED ASPHALTIC PAVEMENT BASE COARSE

SB SOUTHBOUND

SDD STANDARD DETAIL DRAWING

SE SUPER ELEVATION SF SQUARE FOOT STA STATION SY SQUARE YARD TANGENT LENGTH

TLE TEMPORARY LIMITED EASEMENT VCL VERTICAL CURVE LENGTH VPC POINT OF VERTICAL CURVE POINT OF VERTICAL INTERSECTION VPI **VPT** POINT OF VERTICAL TANGENT

PROJECT NO: 1030-26-91 & 1030-06-67

HWY: IH 43/94

COUNTY: MILWAUKEE

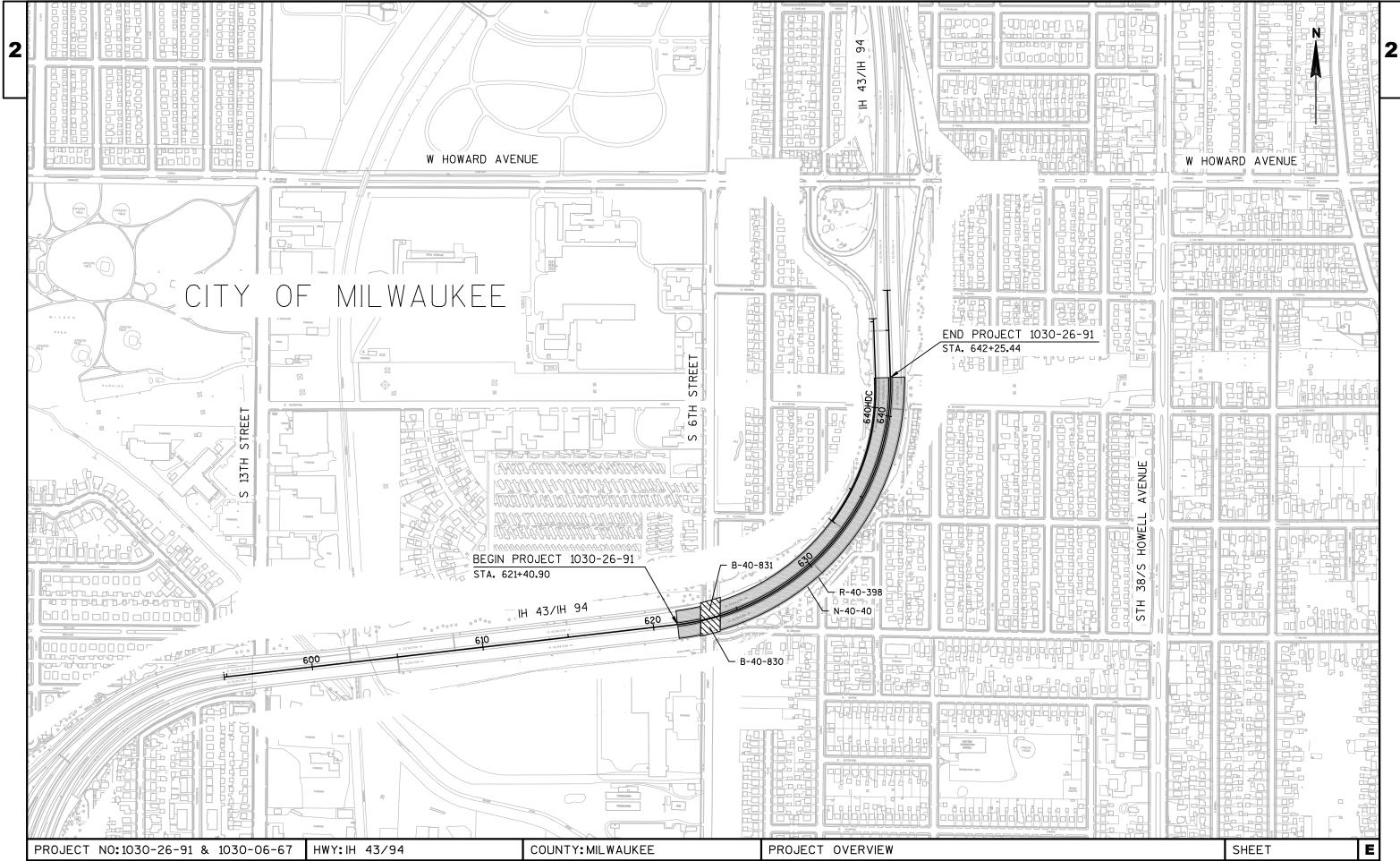
GENERAL NOTES PLOT BY:

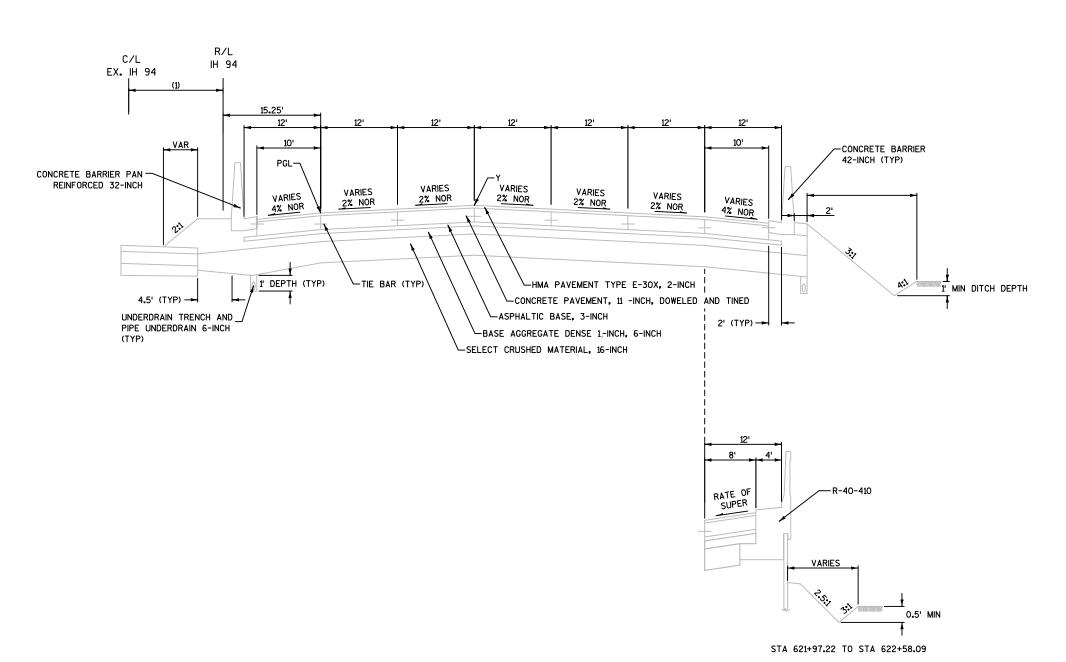
SHEET:

N:\PDS\C3D\10302630\SHEETSPLAN\020101_gn.pptx

PLOT DATE :

PLOT SCALE: 1:1





TYPICAL EXISTING SECTION

IH 94 NB

STA 621+40.90 TO STA 622+76.17

<u>NOTES</u>

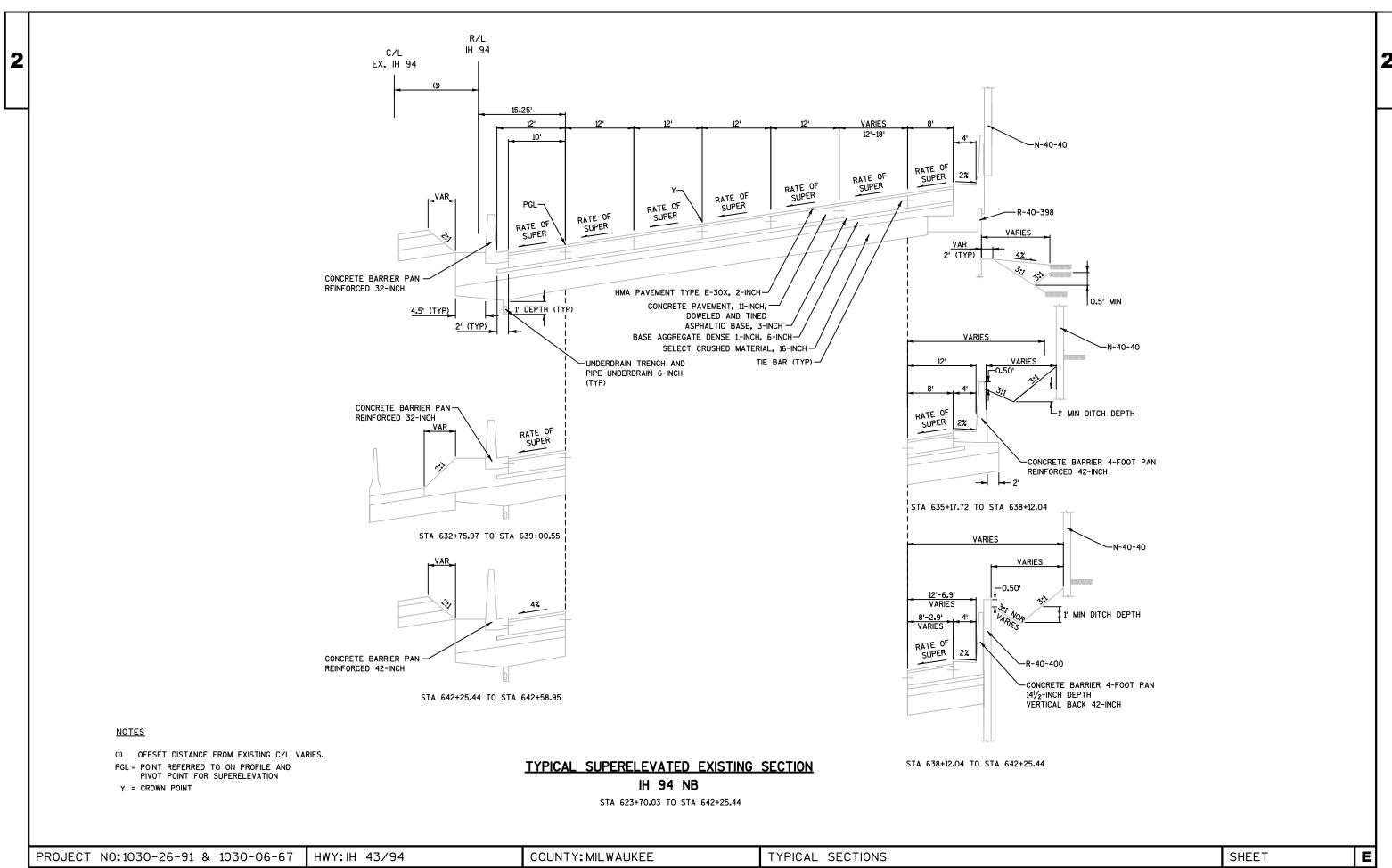
(1) OFFSET DISTANCE FROM EXISTING C/L VARIES.

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

Y = CROWN POINT

PROJECT NO:1030-26-91 & 1030-06-67 HWY:H 43/94 COUNTY:MILWAUKEE TYPICAL SECTIONS SHEET **E**

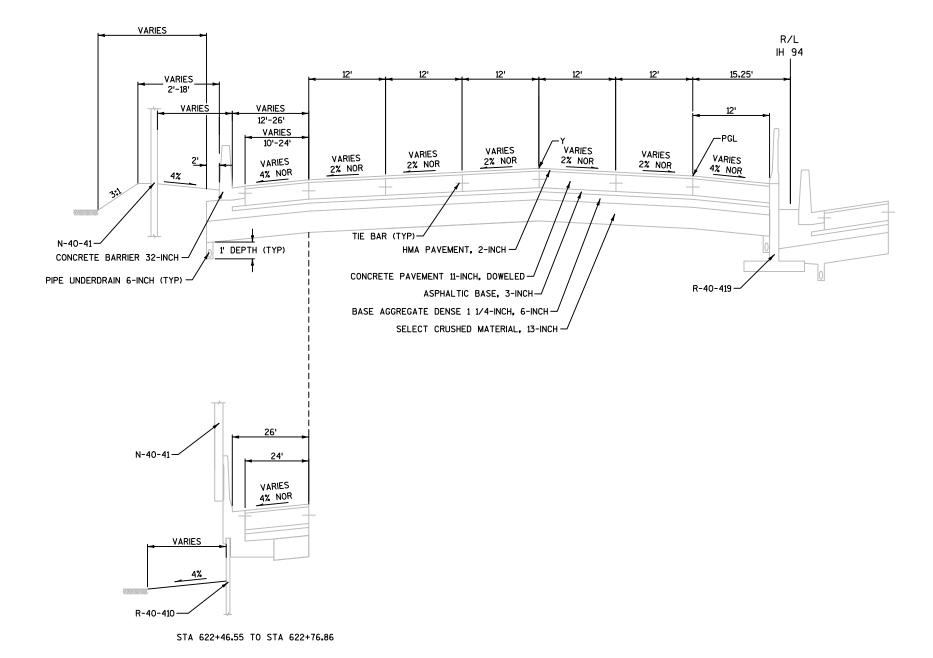
2



FILE NAME: N:\PDS\C3D\10302630\SHEETSPLAN\020301_TS.DWG PLOT BY: JOHANSEN, AMANDA A PLOT NAME: PLOT SCALE: 1 IN:20 FT AYOUT NAME - 020302

PLOT DATE: 5/24/2016 1:23 PM PLOT BY: JOHANSEN, AMANDA A PLOT NAME: PLOT SCALE: 1 IN:20 FT WISDOT/CADDS SHEET 42

2



TYPICAL EXISTING SECTION

IH 94 SB

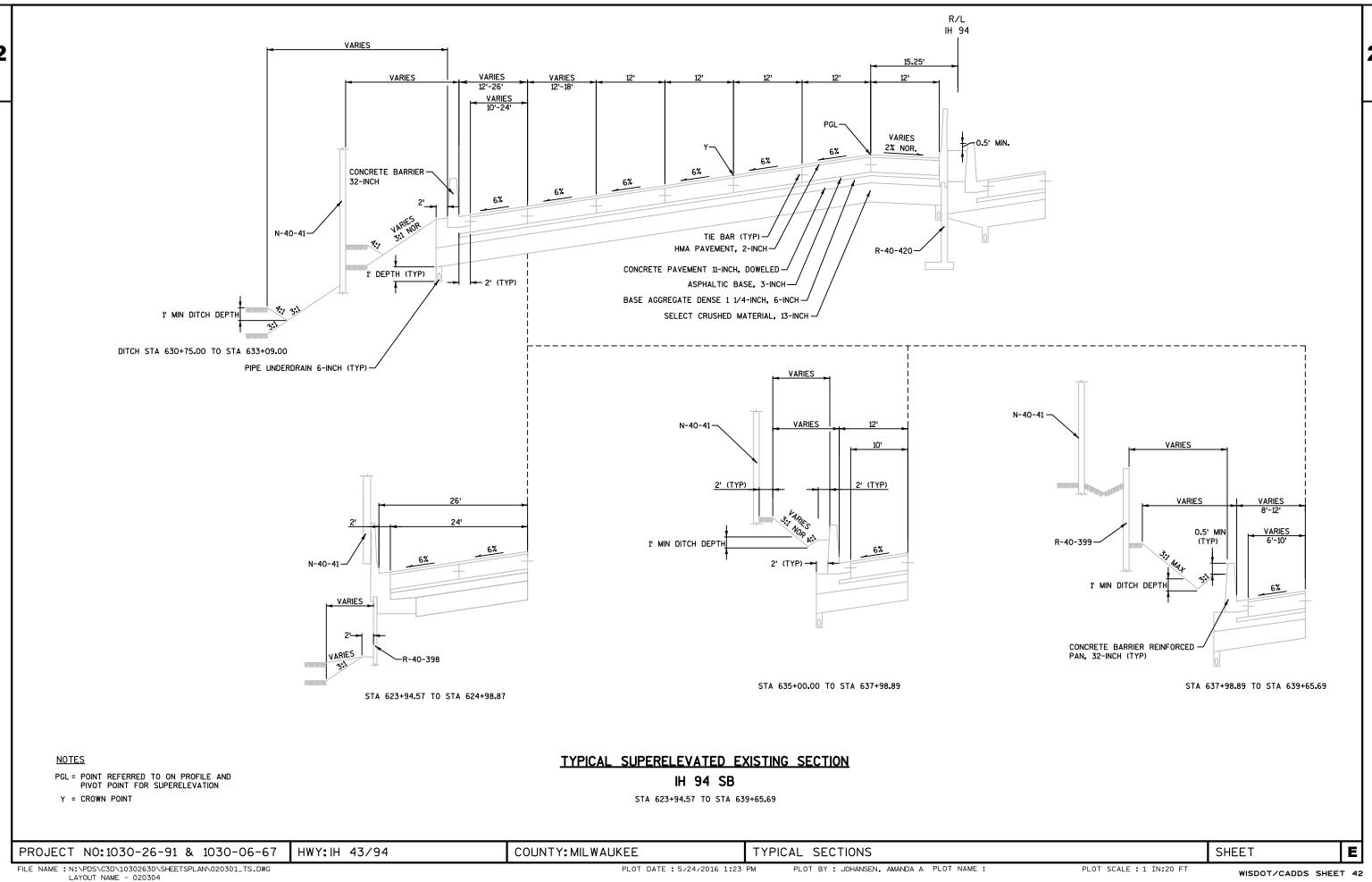
STA 621+40.90 TO STA 622+76.86

Y = CROWN POINT

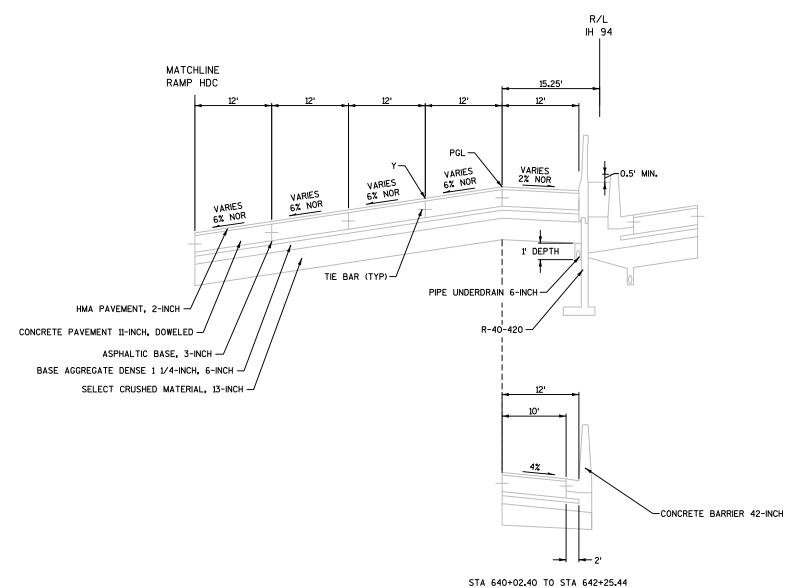
<u>NOTES</u>

PROJECT NO:1030-26-91 & 1030-06-67 HWY:H 43/94 COUNTY:MILWAUKEE TYPICAL SECTIONS SHEET **E**

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION



2



TYPICAL EXISTING SECTION

IH 94 SB

STA 639+65.69 TO STA 642+25.44

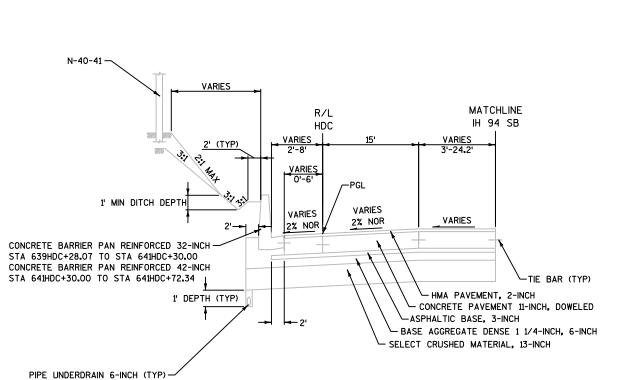
NOTES

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

ORONAL BOILT

Y = CROWN POINT

PROJECT NO:1030-26-91 & 1030-06-67 HWY: IH 43/94 COUNTY: MILWAUKEE TYPICAL SECTIONS SHEET



TYPICAL EXISTING SECTION RAMP HDC

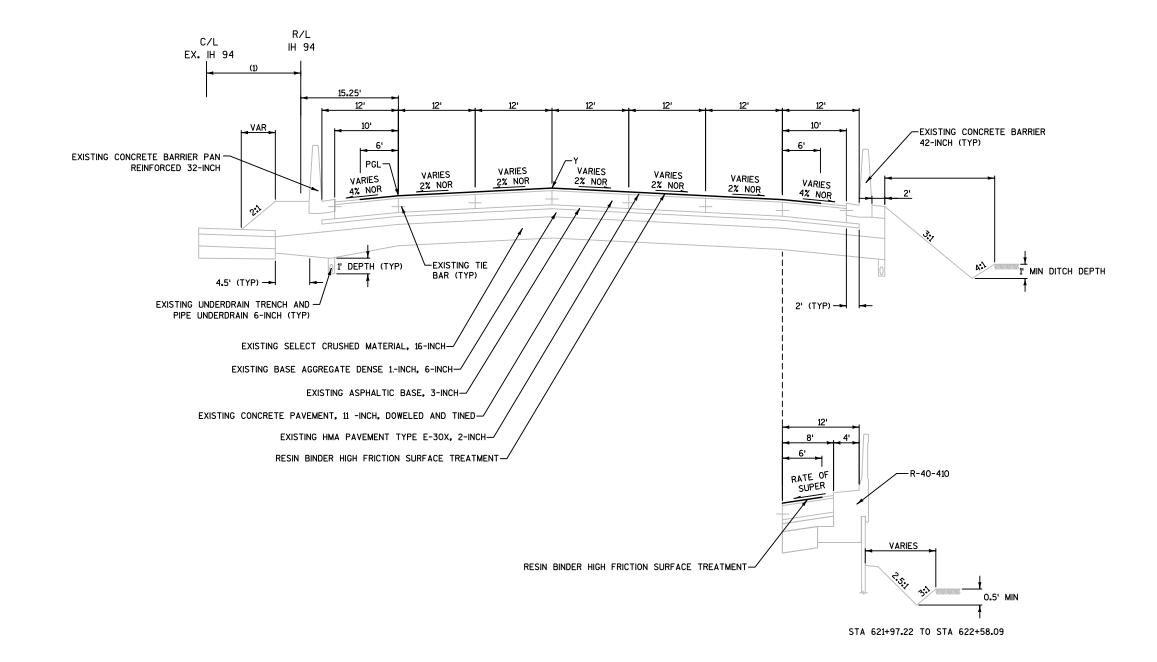
STA 639HDC+28.07 TO STA 641HDC+72.34

<u>NOTES</u>

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

PROJECT NO:1030-26-91 & 1030-06-67 COUNTY: MILWAUKEE SHEET E HWY: IH 43/94 TYPICAL SECTIONS

2



TYPICAL FINISHED SECTION

IH 94 NB

STA 621+40.90 TO STA 622+76.17

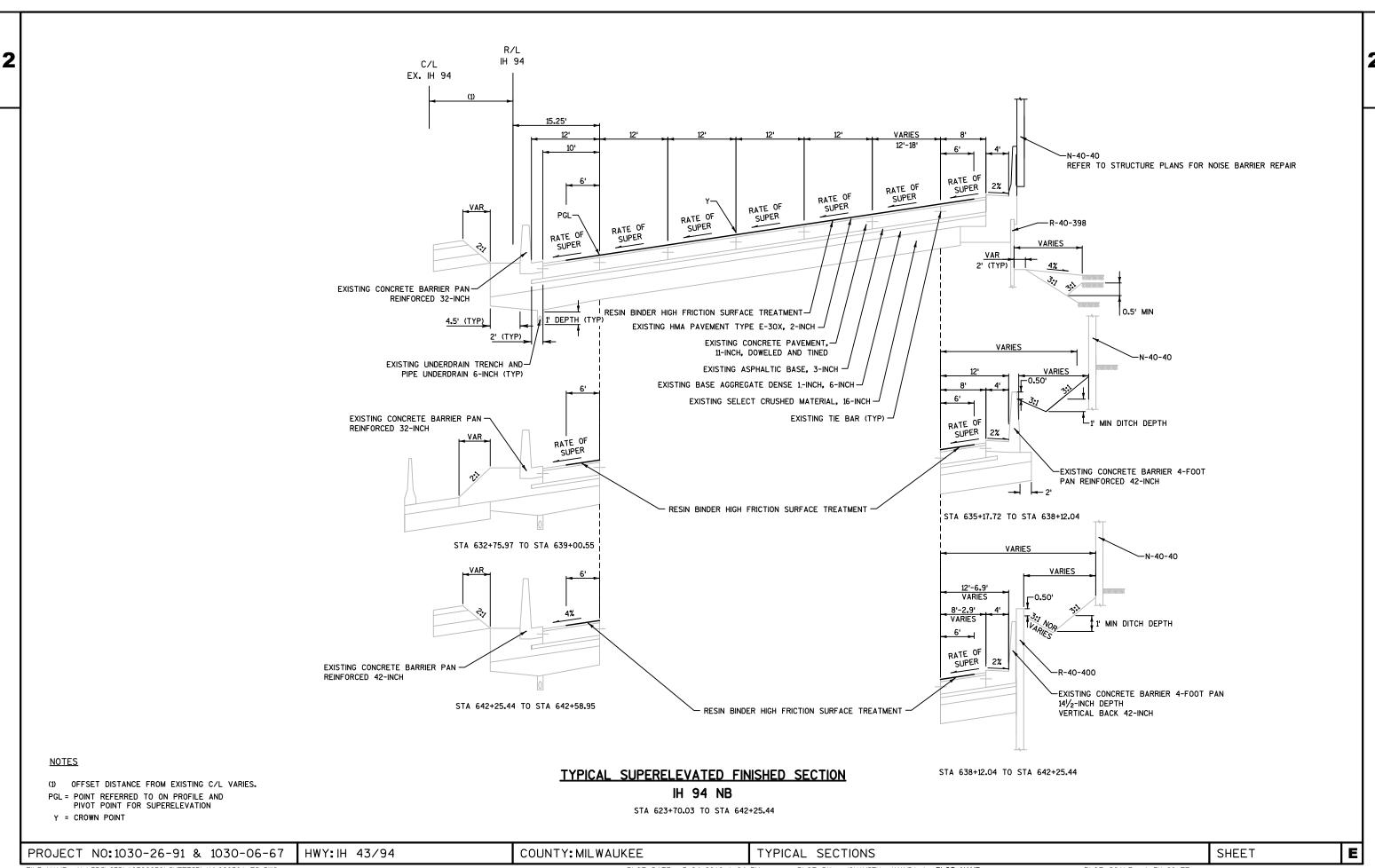
(1) OFFSET DISTANCE FROM EXISTING C/L VARIES.
PGL = POINT REFERRED TO ON PROFILE AND

PIVOT POINT FOR SUPERELEVATION

Y = CROWN POINT

<u>NOTES</u>

PROJECT NO:1030-26-91 & 1030-06-67 HWY: IH 43/94 COUNTY: MILWAUKEE TYPICAL SECTIONS SHEET **E**



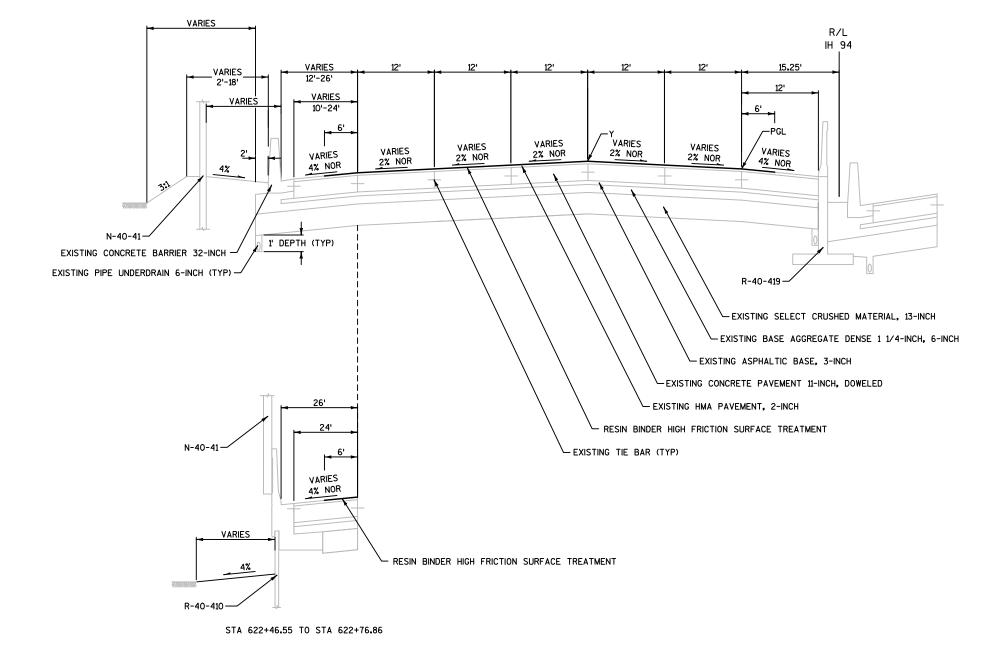
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PLOT DATE : 5/24/2016 1:24 PM

PLOT BY: JOHANSEN, AMANDA A PLOT NAME:

PLOT SCALE : 1 IN:20 FT

2



TYPICAL FINISHED SECTION

IH 94 SB

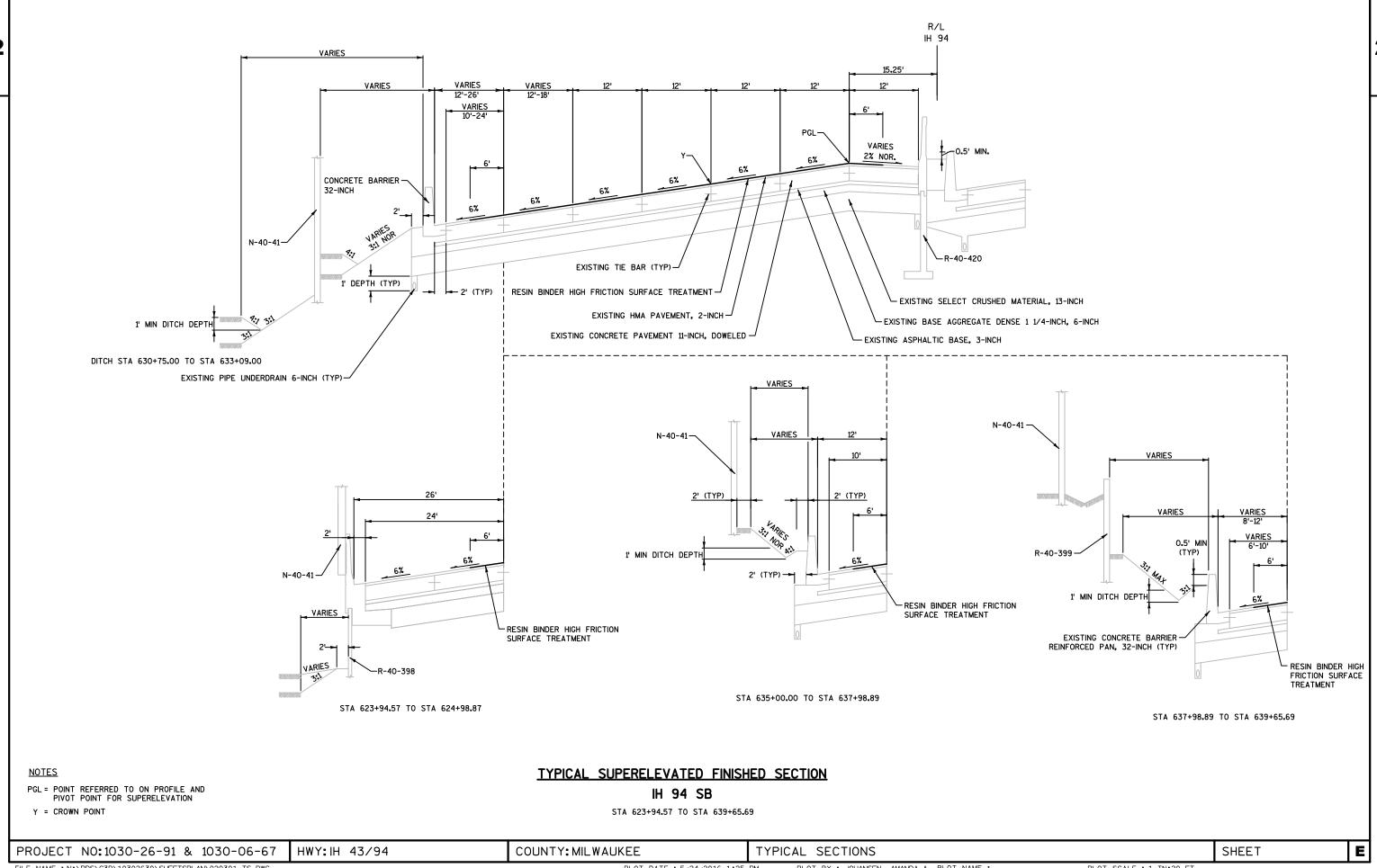
STA 621+40.90 TO STA 622+76.86

Y = CROWN POINT

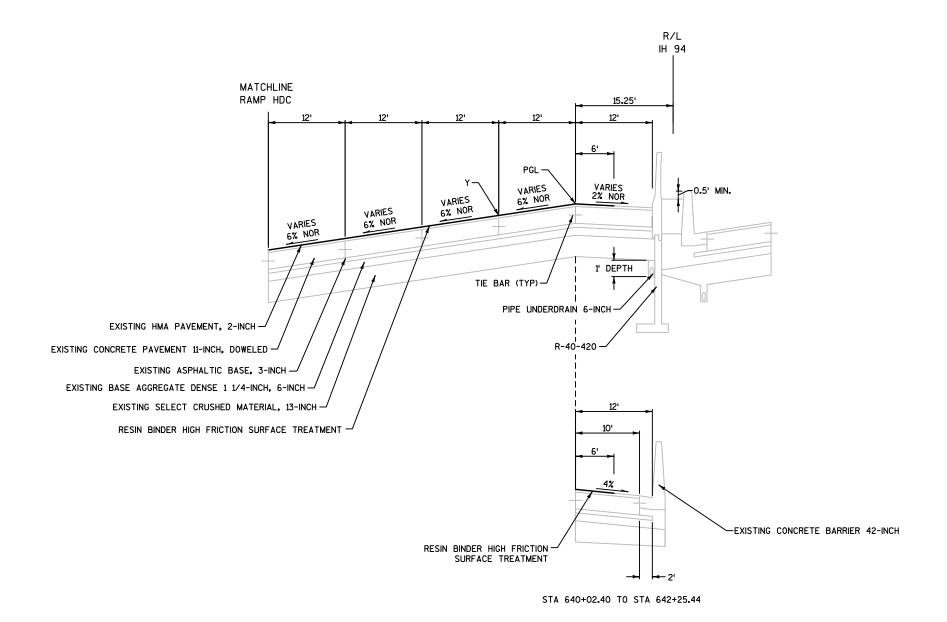
<u>NOTES</u>

PROJECT NO:1030-26-91 & 1030-06-67 HWY:H 43/94 COUNTY:MILWAUKEE TYPICAL SECTIONS SHEET **E**

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION







TYPICAL FINISHED SECTION

IH 94 SB

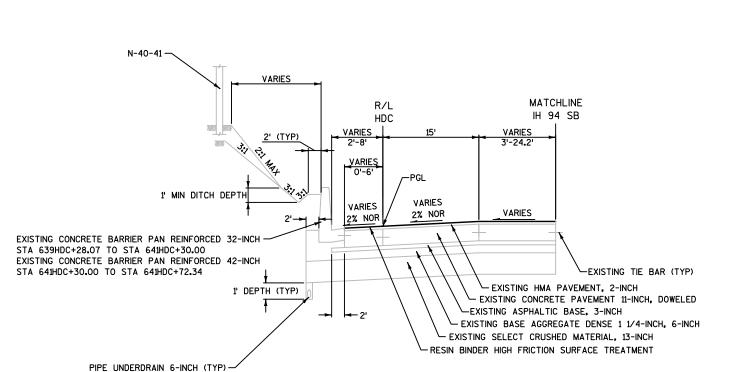
STA 639+65.69 TO STA 642+25.44

<u>NOTES</u>

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

Y = CROWN POINT

PROJECT NO:1030-26-91 & 1030-06-67 HWY: IH 43/94 COUNTY: MILWAUKEE TYPICAL SECTIONS SHEET **E**



TYPICAL FINISHED SECTION

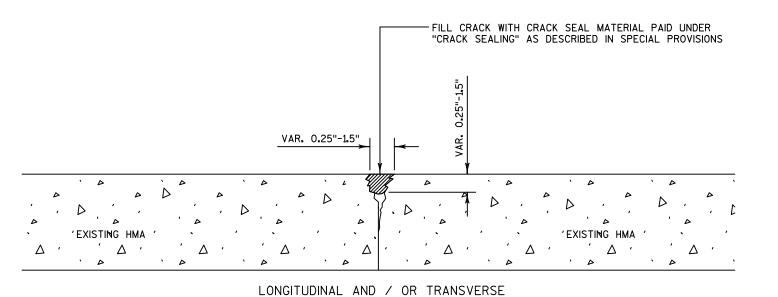
RAMP HDC

STA 639HDC+28.07 TO STA 641HDC+72.34

NOTES

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

PROJECT NO:1030-26-91 & 1030-06-67 HWY: IH 43/94 COUNTY: MILWAUKEE TYPICAL SECTIONS SHEET



CRACK SEALING - DETAIL

PROJECT NO:1030-26-91 & 1030-06-67

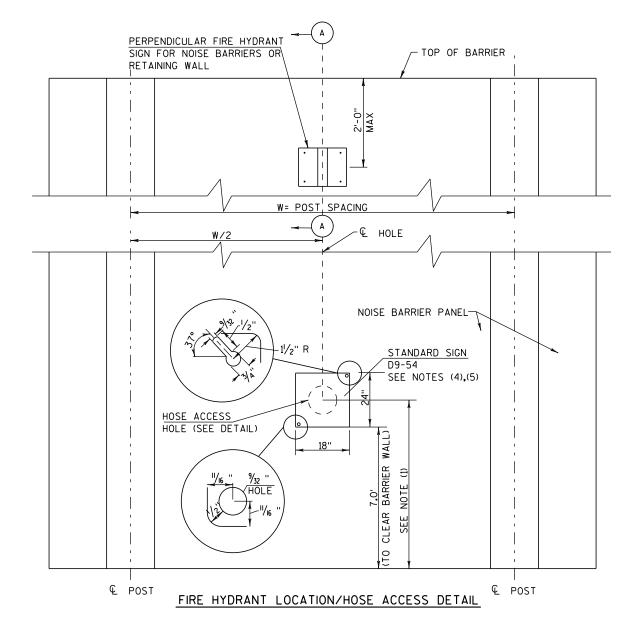
HWY: IH 43/94

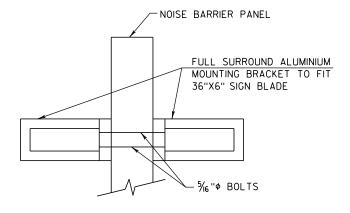
COUNTY: MILWAUKEE

CONSTRUCTION DETAILS

SHEET

E



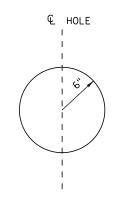


PERPENDICULAR FIRE HYDRANT SIGN FOR NOISE BARRIER OR RETAINING WALL

SECTION A-A

NOTE:

MOUNTING BOLTS, BRACKETS, ARE INCIDENTAL TO SIGN



HOSE ACCESS HOLE DETAIL

NOTES:

- 1. STANDARD SIGNS D9-54 WILL BE FURNISHED BY THE CONTRACTOR. SEE PLAN.
- 2. TWO STANDARD SIGNS D9-54 TO BE FURNISHED PER STATION. ONE SIGN SHALL BE INSTALLED ON EACH SIDE OF THE BARRIER.
- 3. FIRE HYDRANT SIGN BLADE SHALL BE ATTACHED TO THE NOISE BARRIER PANEL OR RETAINING WALL NEAR THE TOP OF THE BARRIER. SEE DETAIL ABOVE, PAID FOR UNDER FIRE HYDRANT SIGN MOUNTING SEE SPECIAL PROVISIONS.

NOTE:

CLIP FOR SIGN (D9-54) SIGN IS INCIDENTAL TO SIGN.

NOTE:

PLACE SIGNS ADJACENT TO OPENING WHERE SIGNING PLAN SHEETS SO INDICATE OTHERWISE, INSTALL PER THIS DETAIL.

PROJECT NO:1030-26-91 HWY:43/94/894 COUNTY:MILWAUKEE HYDRANT SIGN MOUNTING DETAIL SHEET **E**

FILE NAME: J:\projects\d2_10302694\021001_CD.dgn

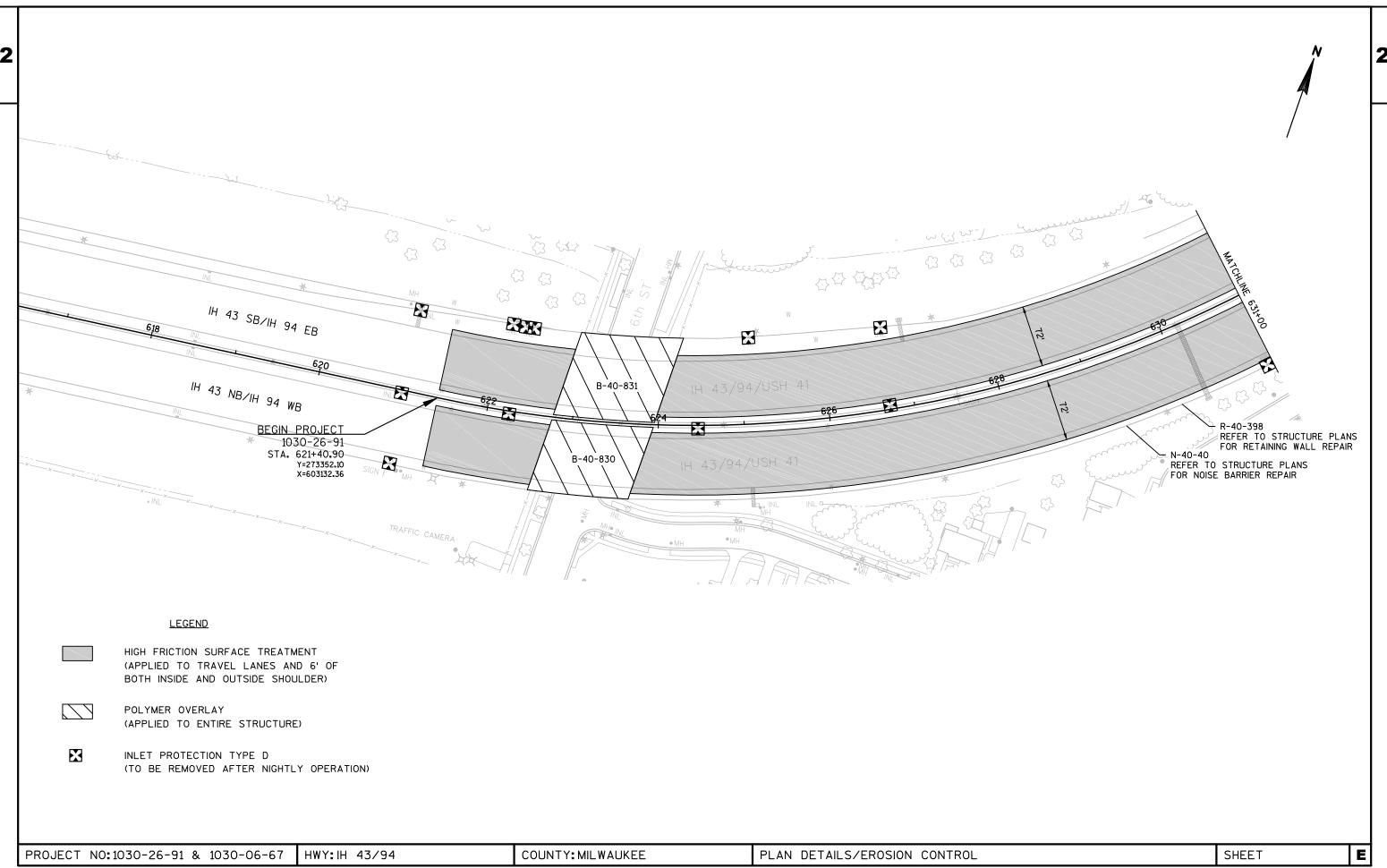
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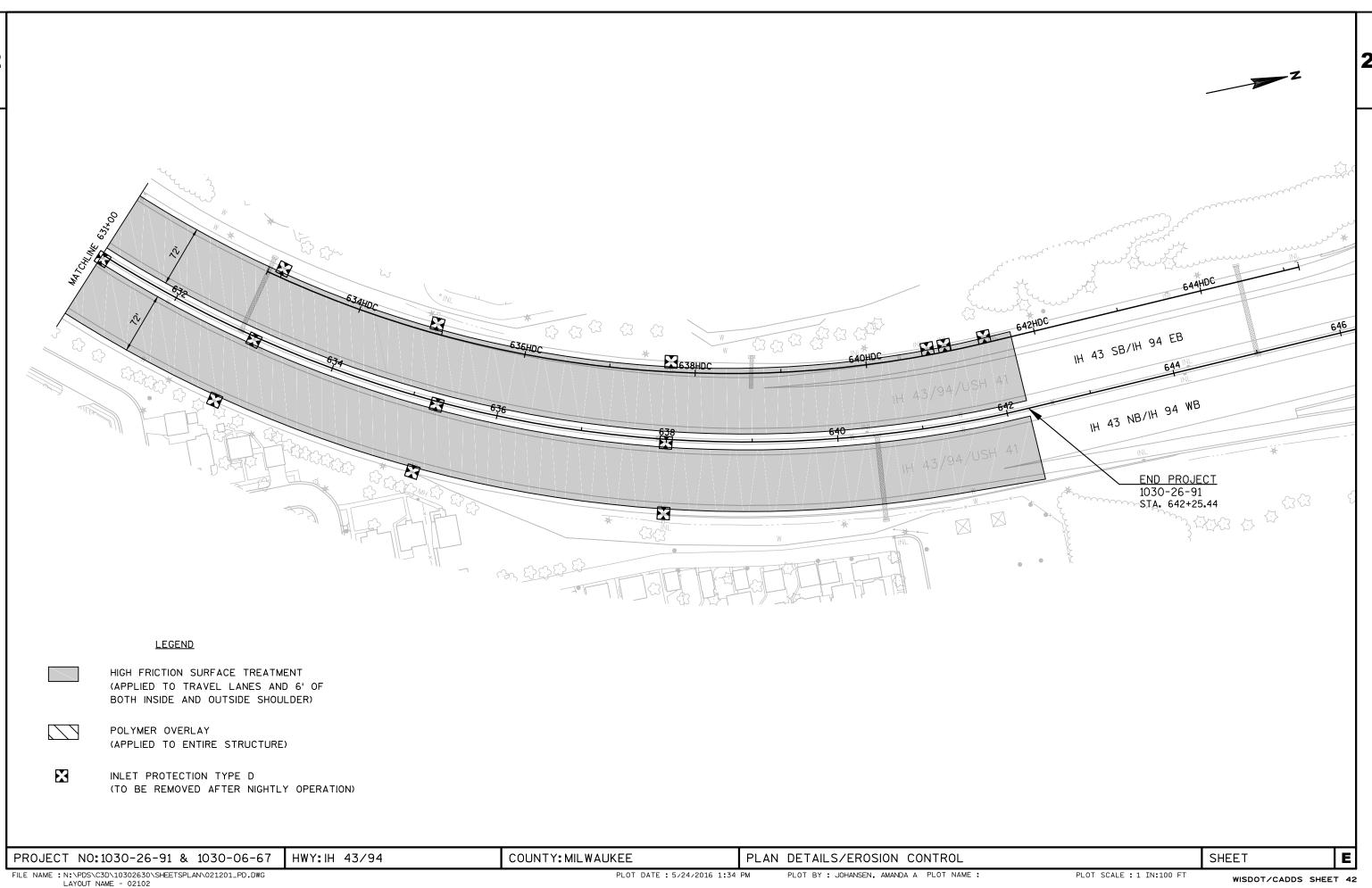
PLOT BY: dotcmv

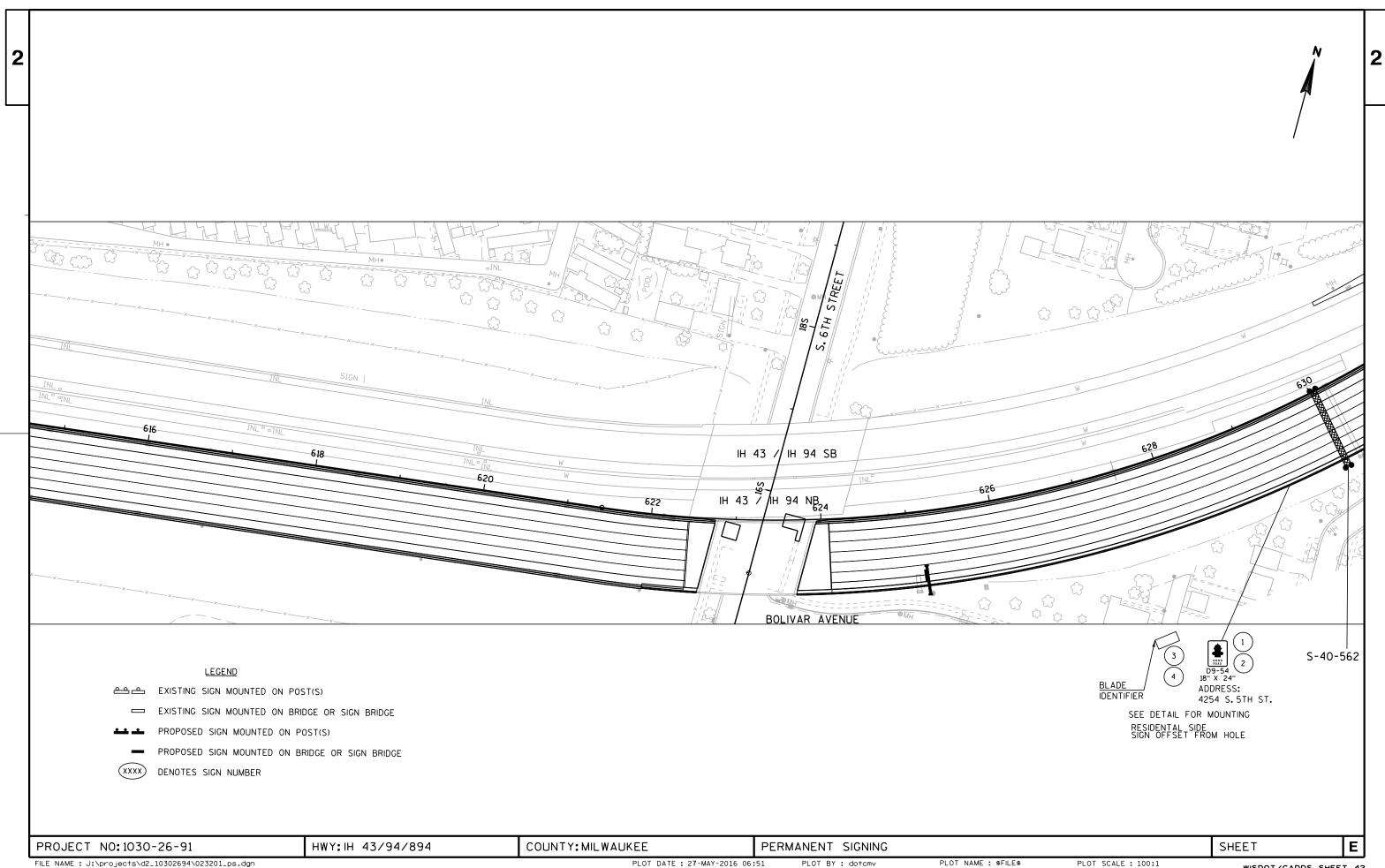
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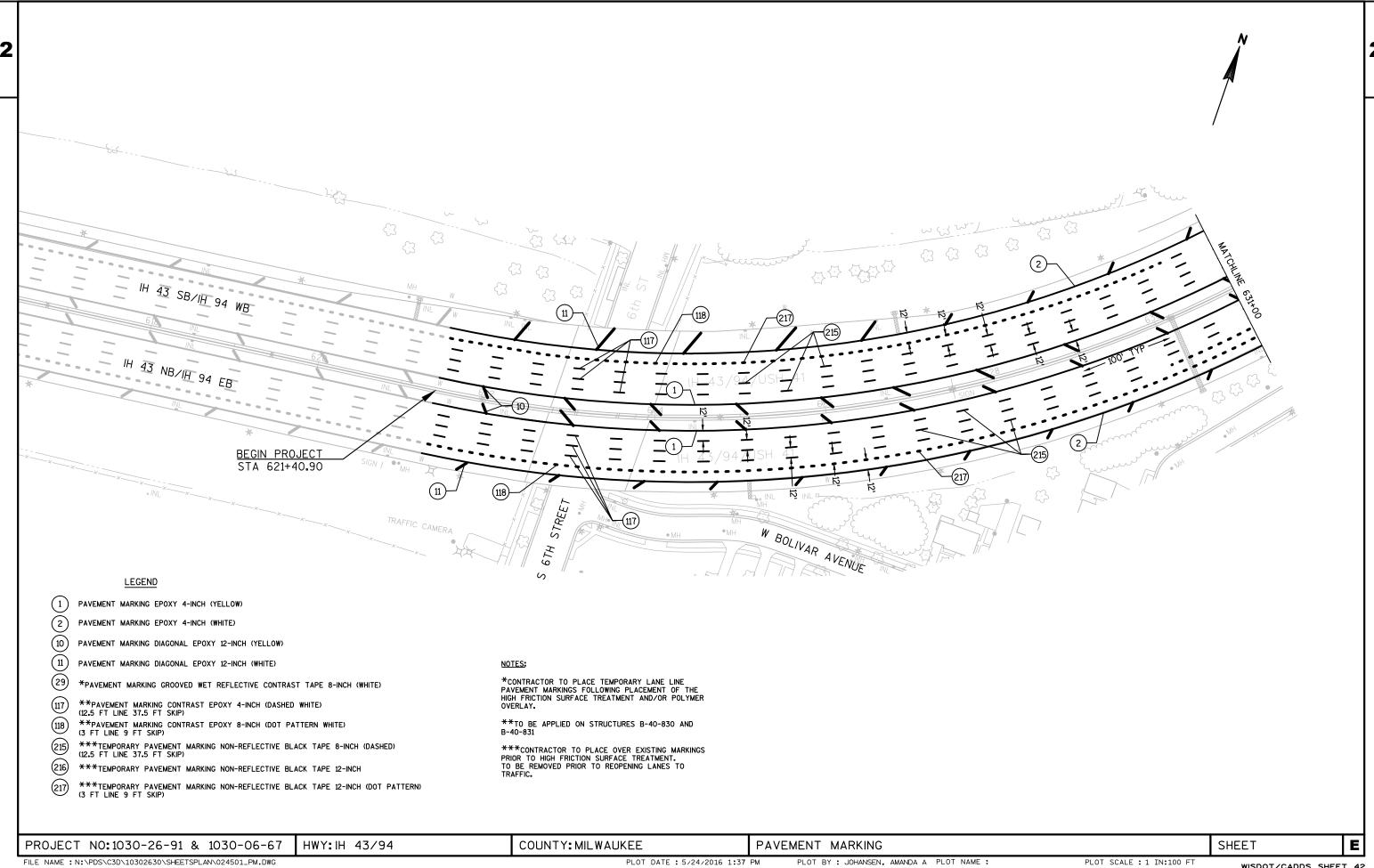
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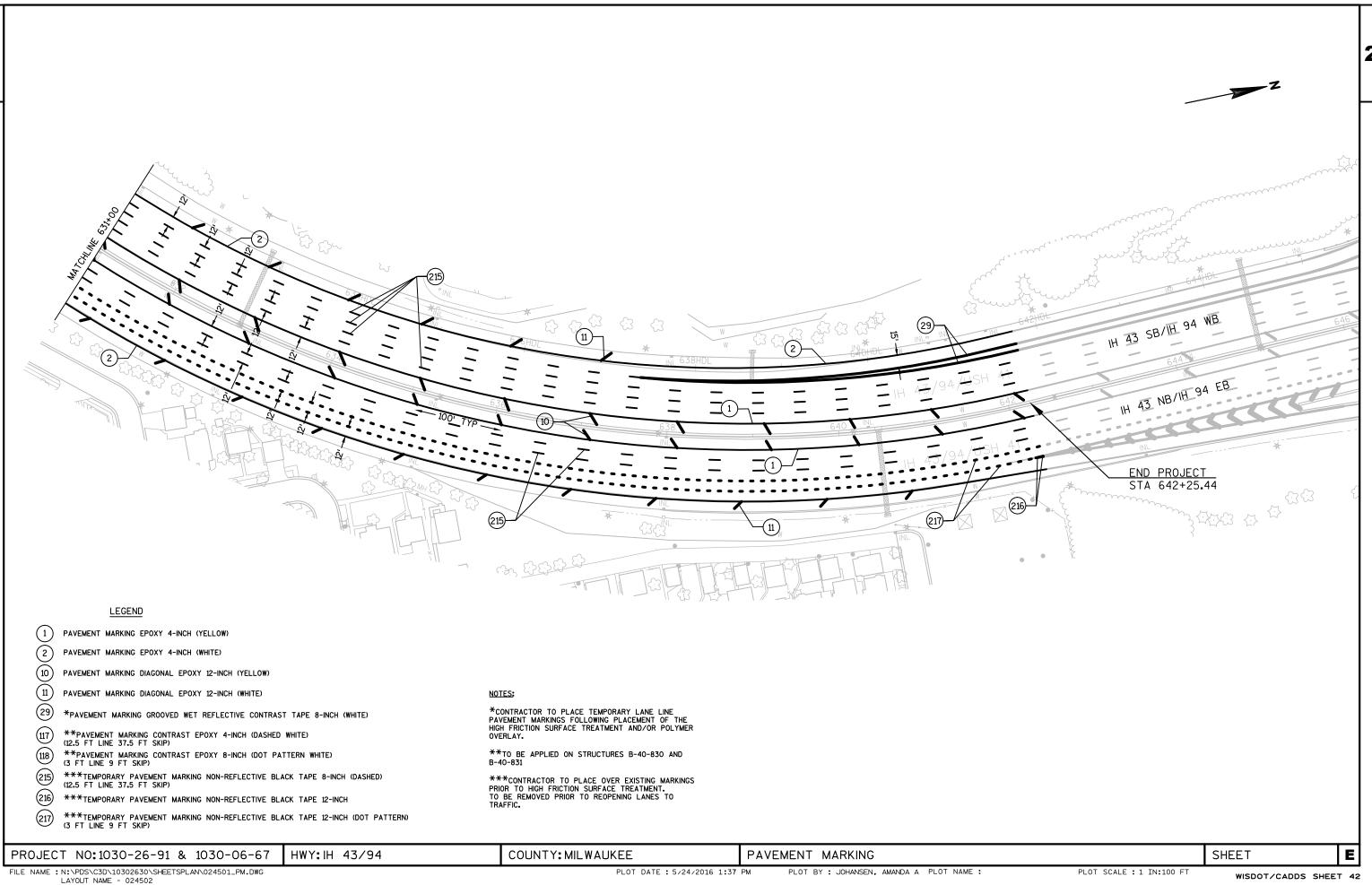
WISDOT/CADDS SHEET 42

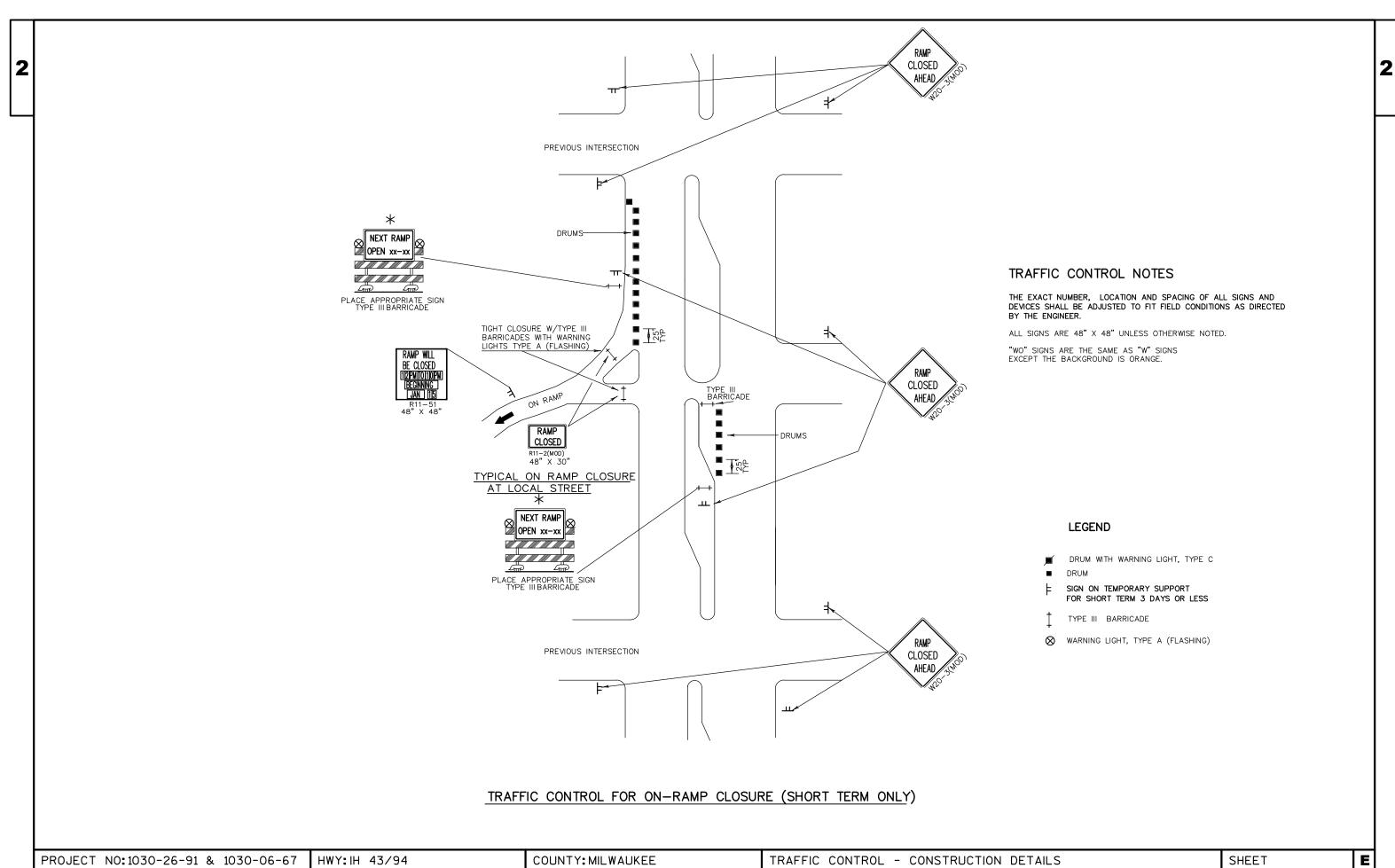












* ARROW BOARD. LOCATE APPROX. 500' IN ADVANCE OF LANE TAPER OR POSITION FOR OPTIMUM VISIBILITY.

TYPICAL ONE-LANE CLOSURE LESS THAN 7 DAYS

LEGEND

- DRUM
- | SIGN ON TEMPORARY SUPPORT
- ARROW BOARD
- DIRECTION OF TRAFFIC

///// WORK AREA

SPECIAL APPLICATION NOTES

THE TAPER SHOULD EXTEND ACROSS THE SHOULDER, UNLESS DOING SO WOULD GREATLY CONFLICT WITH THE WORK OPERATION.

ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL ARROWBOARDS AND DEVICES REMOVED BEYOND THE SHOULDER WHEN THE WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATION CONDITION.

GENERAL NOTES FOR TRAFFIC CONTROL

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

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

DURING HOURS OF DARKNESS, TYPE "C" (STEADY BURN) LIGHTS SHALL BE PROVIDED ON ALL CHANNELIZING DEVICES IN TAPERS, BARRICADES SHELDING AN ISOLATED HAZARD, SHALL BE EQUIPPED WITH TYPE "A" (LOW-INTENSITY FLASHING) LIGHTS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

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

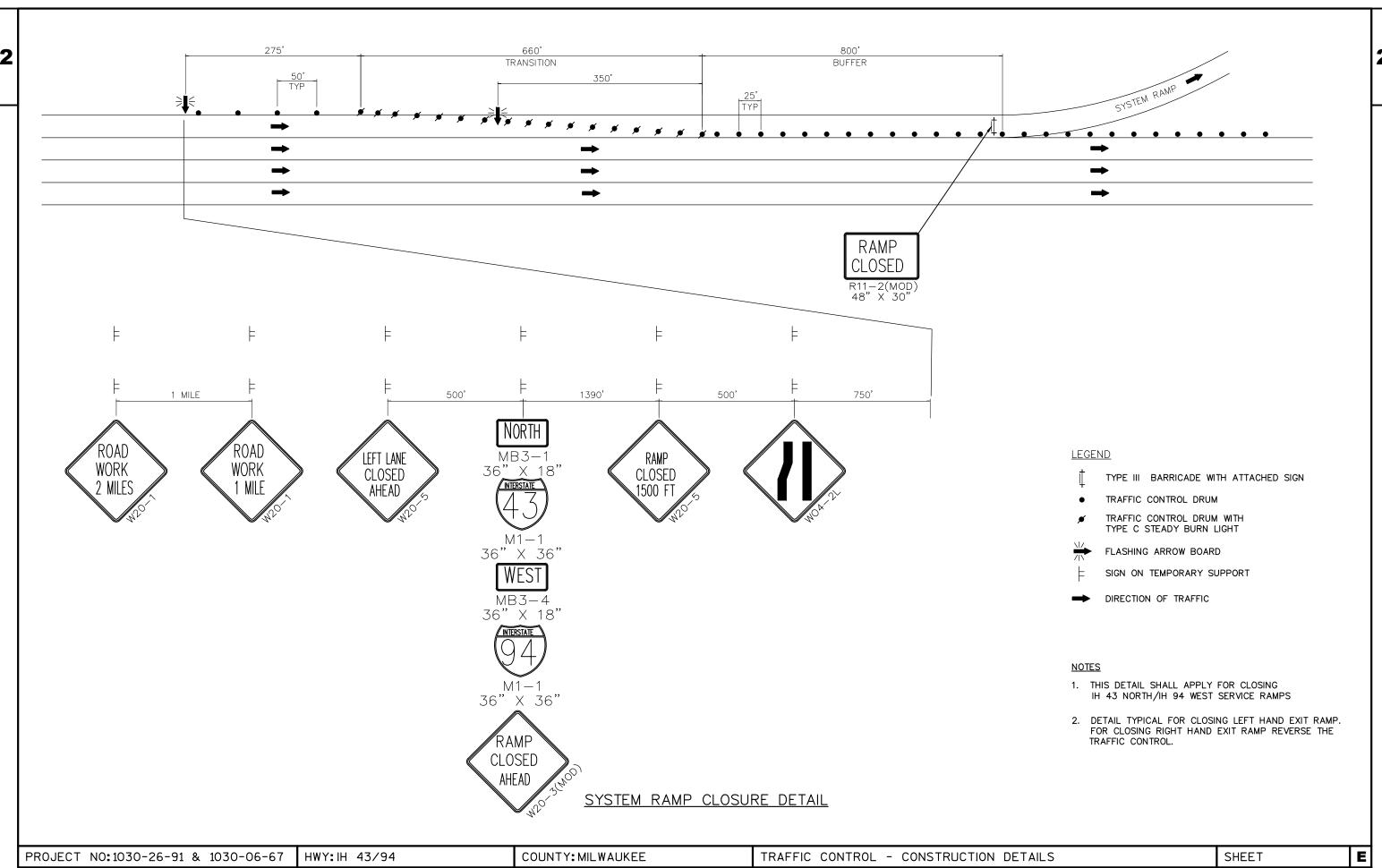
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

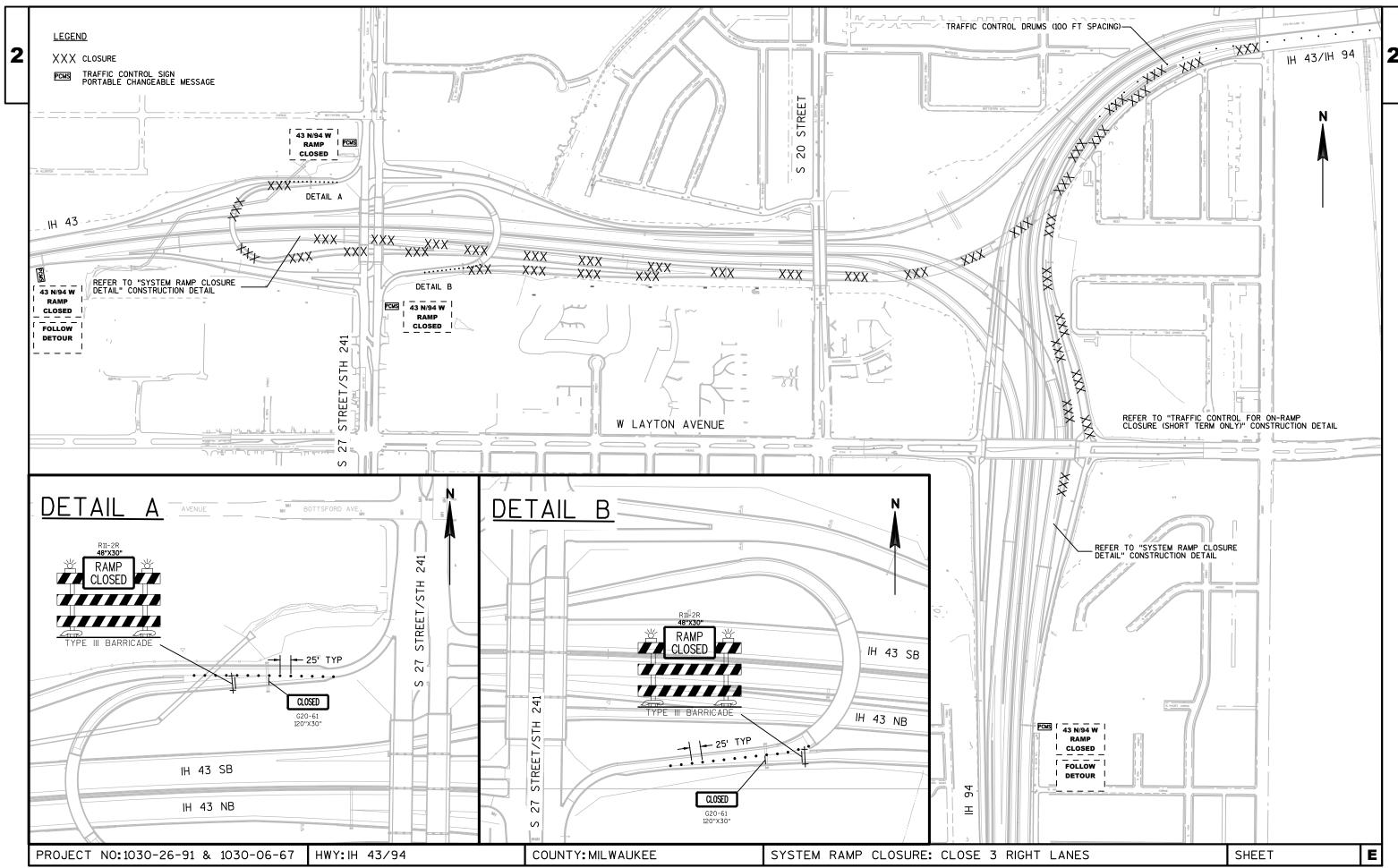
IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

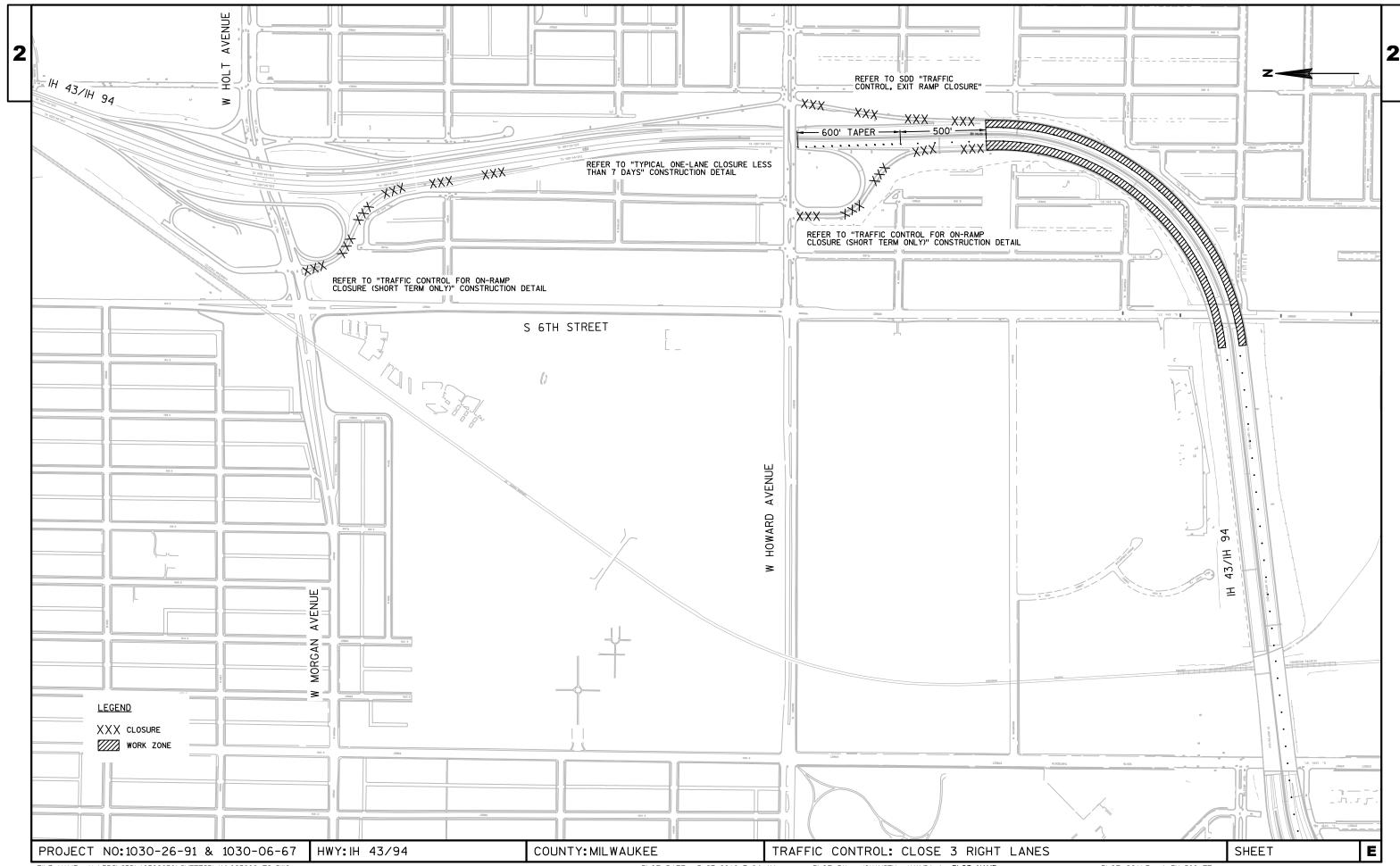
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500' IN FRONT OF DRUMS.

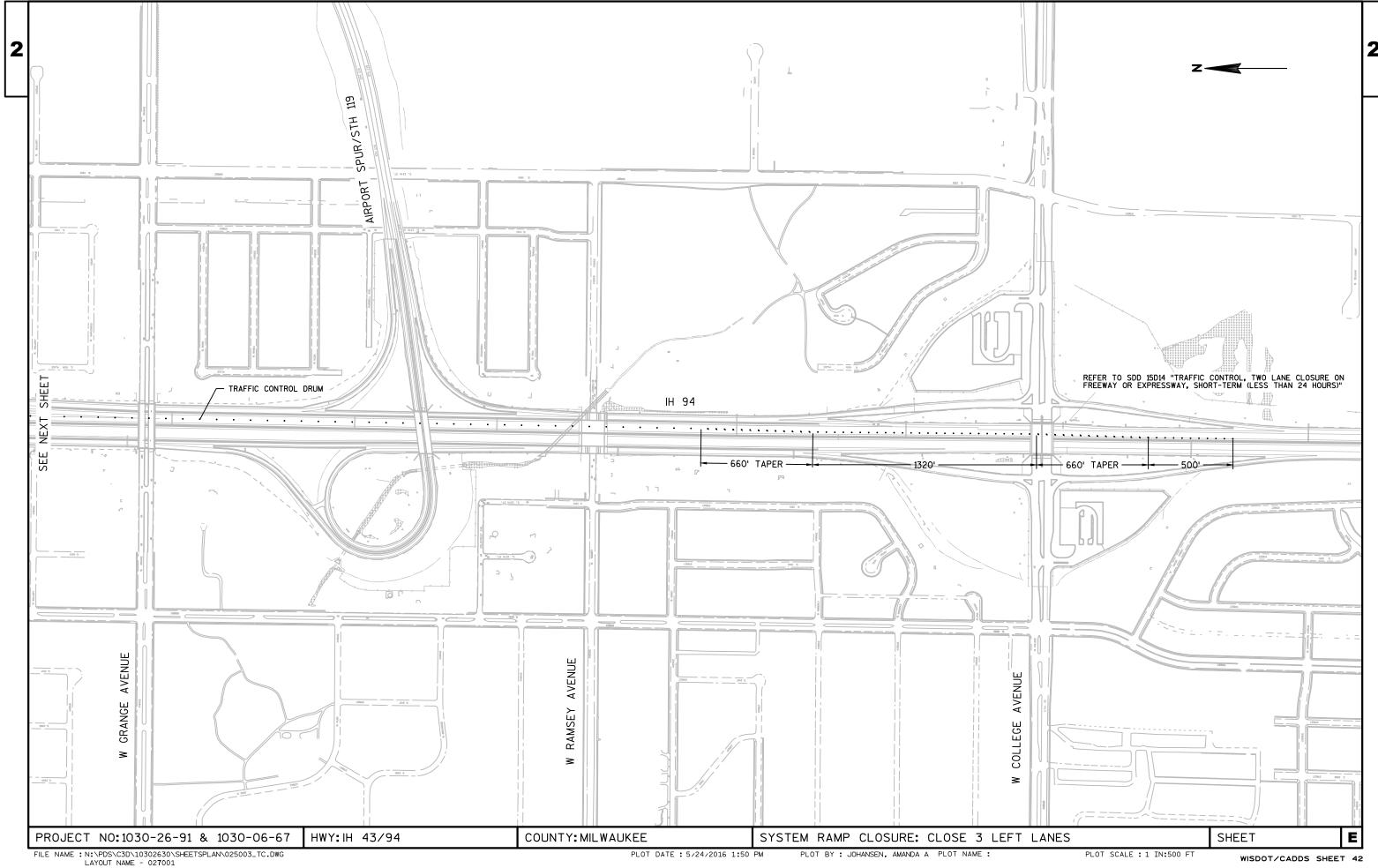
SPEEDS 45 MPH OR GREATER

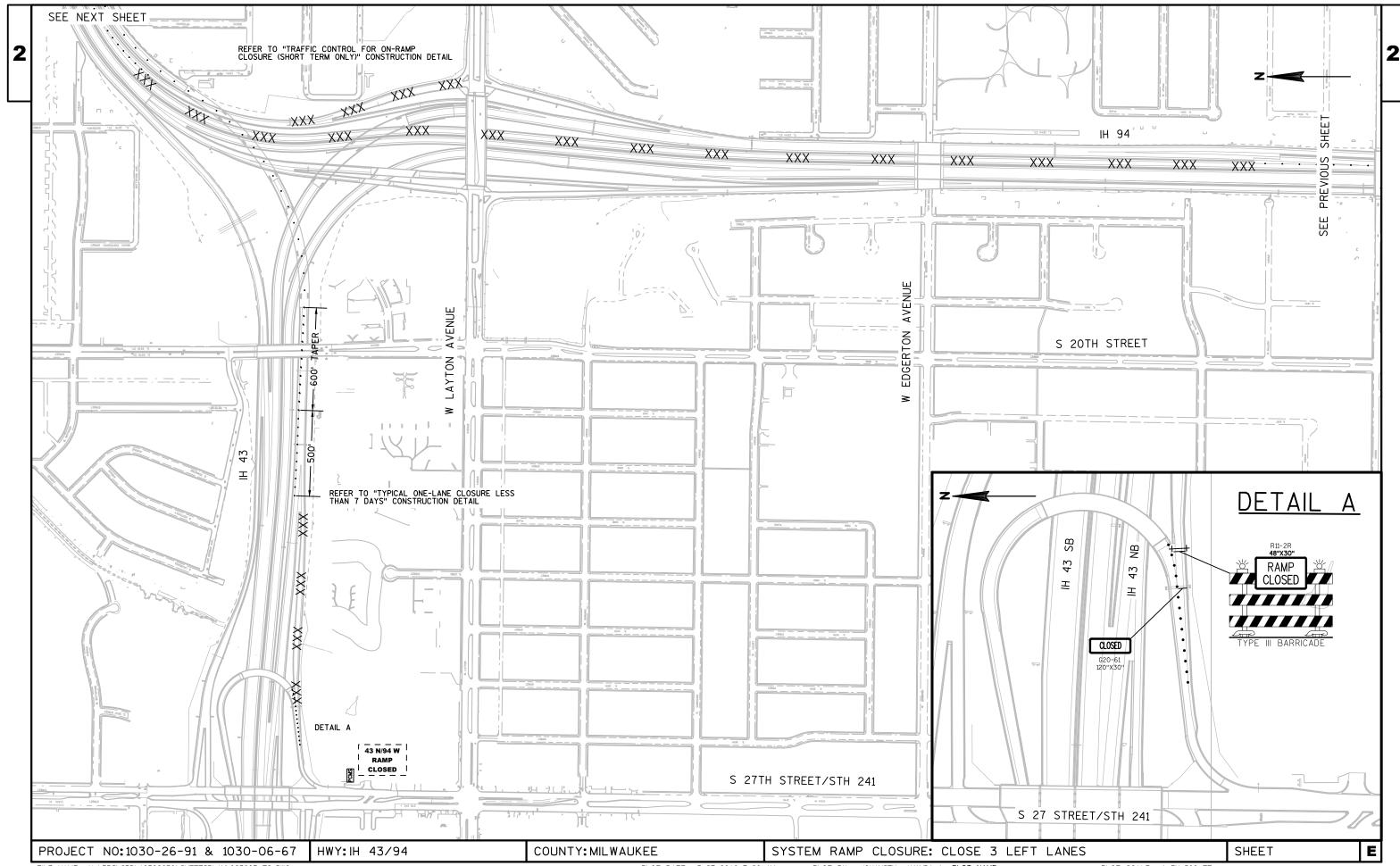
PROJECT NO:1030-26-91 & 1030-06-67 HWY: H 43/94 COUNTY: MILWAUKEE TRAFFIC CONTROL - CONSTRUCTION DETAILS SHEET E

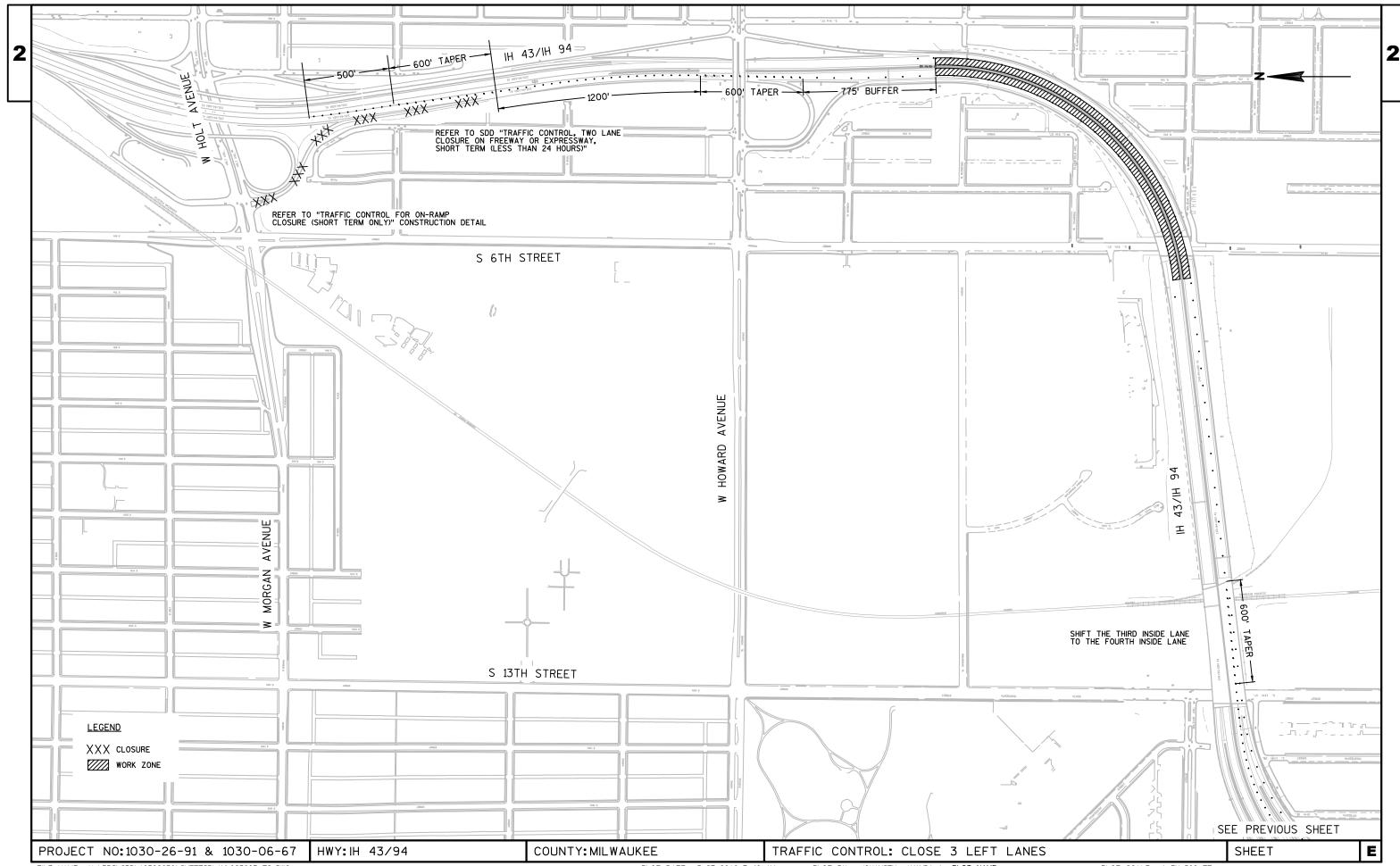


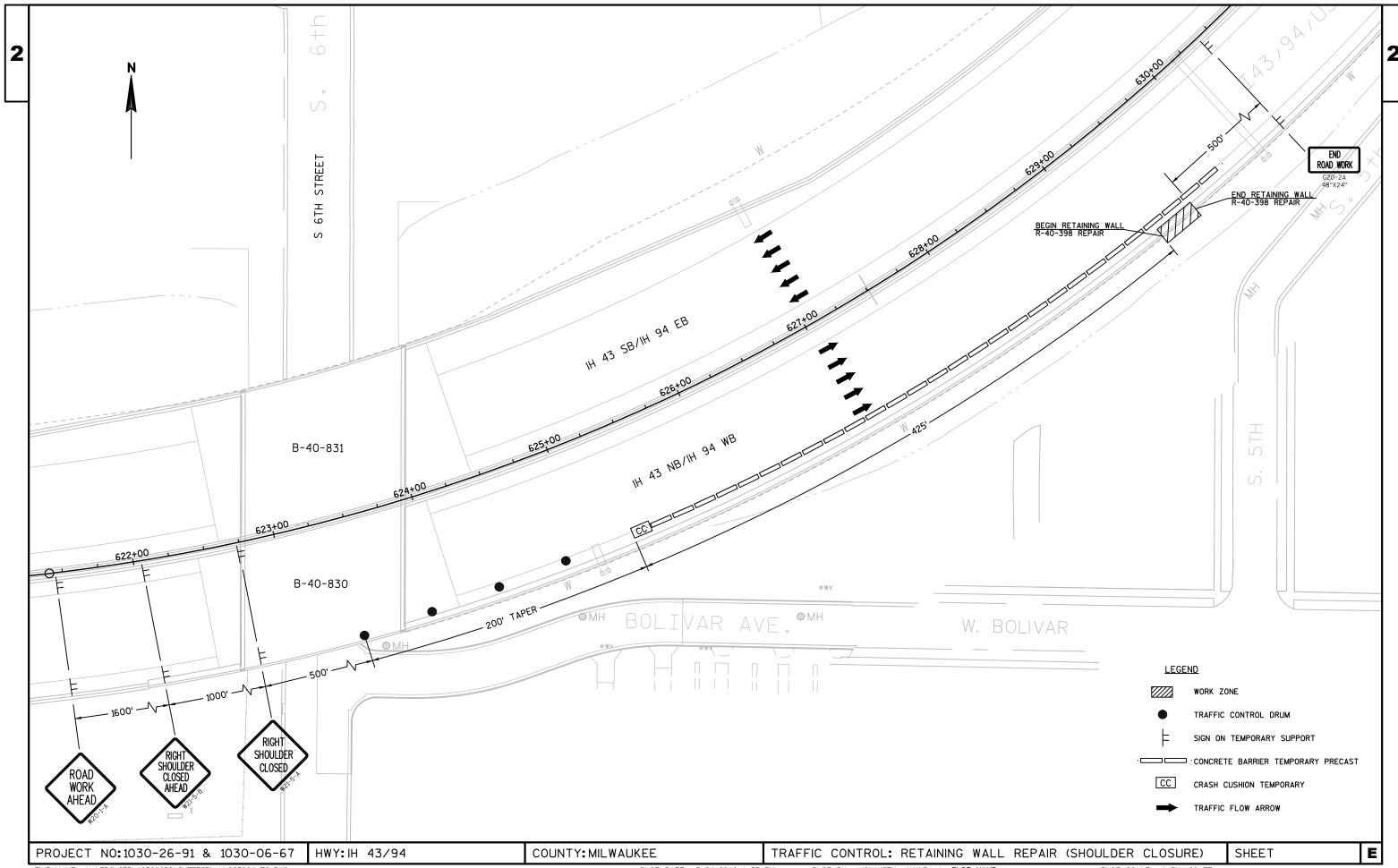


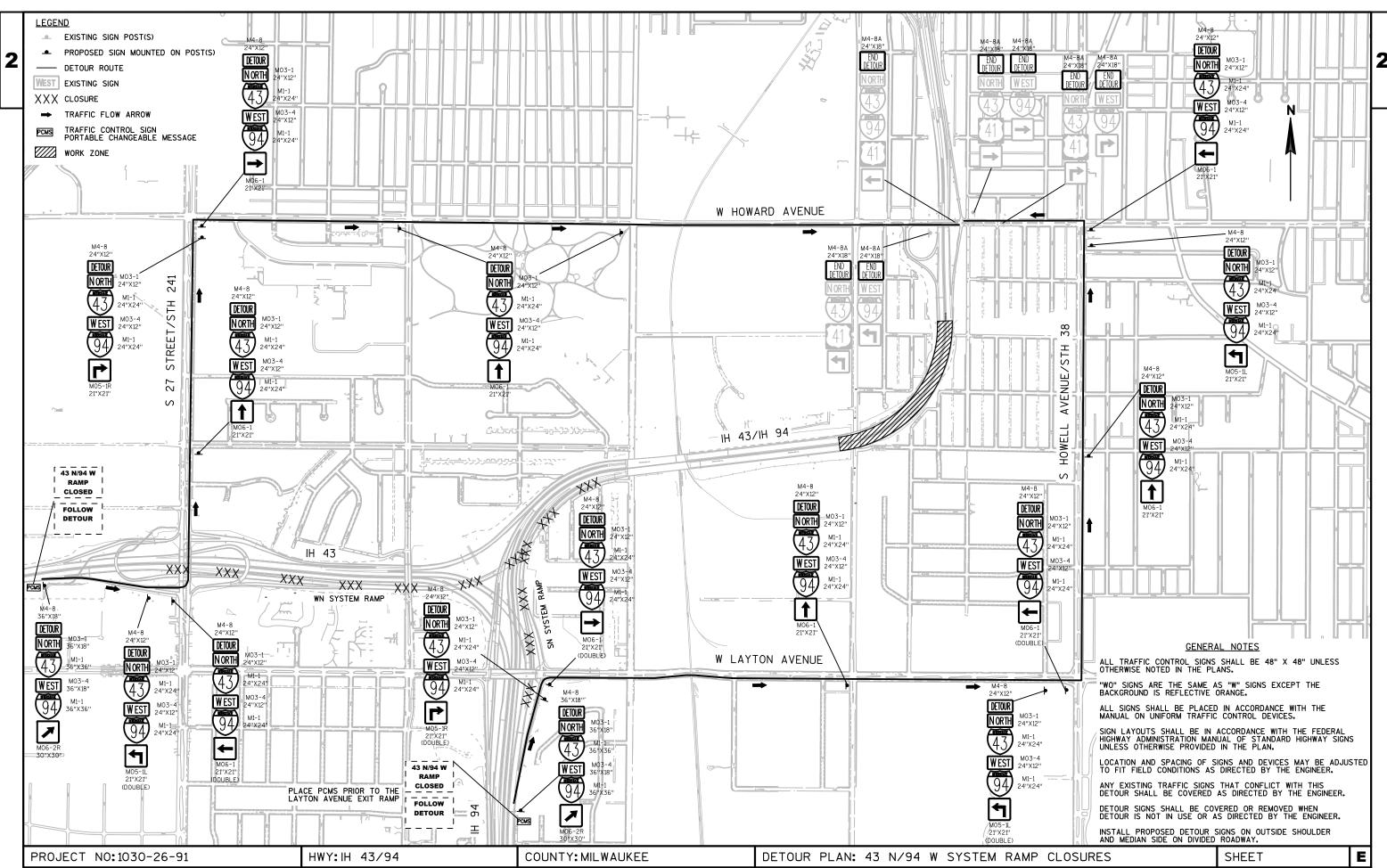


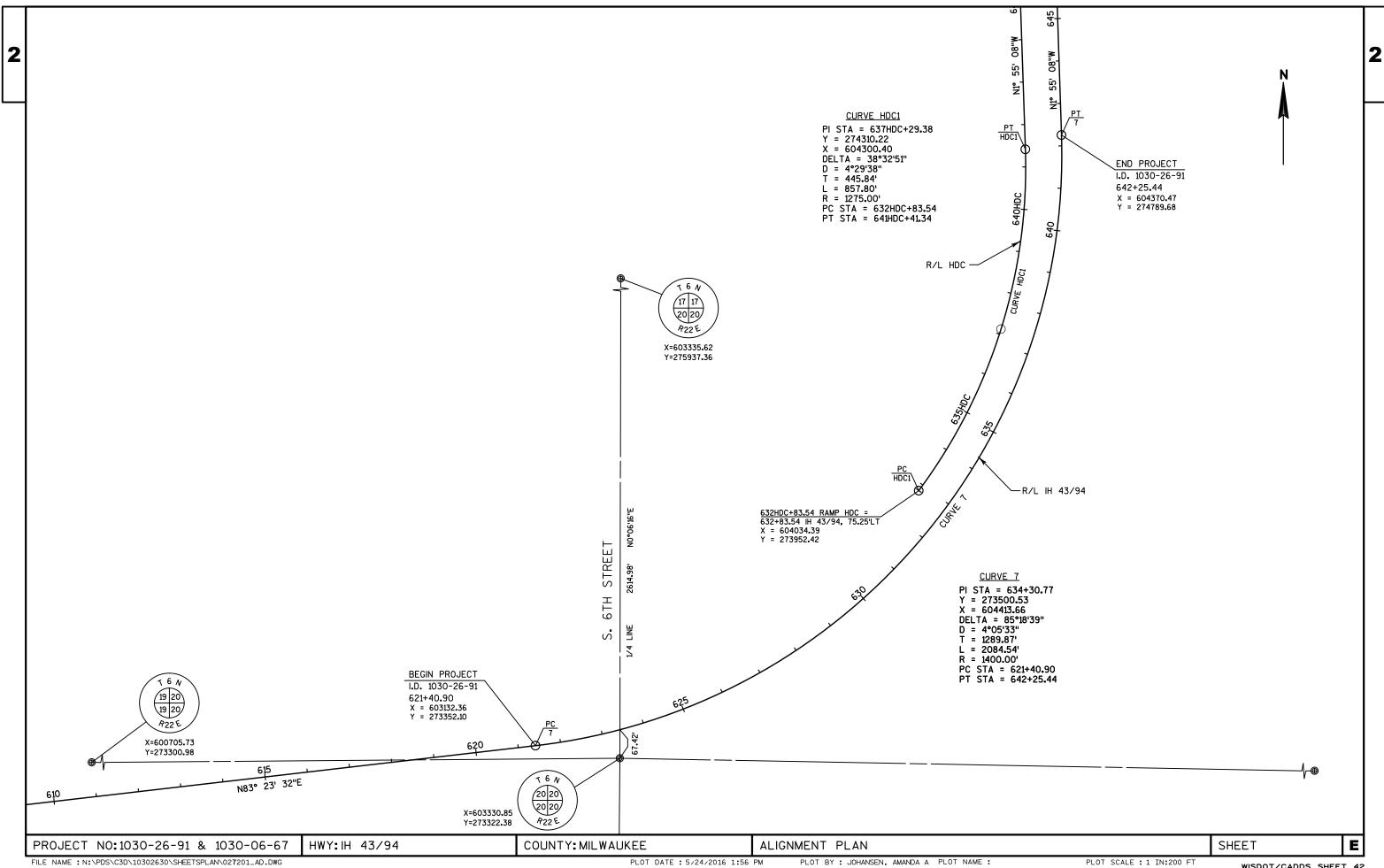












DATE 21 LINE	IJUN16	,	ESTIMATE	OF QUAN	T I T I E S 1030-06-67	1030-26-91	
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY	QUANTI TY	
0010	204. 0185	Removing Masonry	CY	2. 500	2. 500	20/	
0020	213. 0100	Finishing Roadway (project) 01.	EACH	1. 000	1. 000		
0030	213. 0100	Finishing Roadway (project) 02. 1030-26-91	EACH	1. 000		1. 000	
0040	465. 0110	Asphaltic Surface Patching	TON	40.000		40.000	
0050	502. 3200	Protective Surface Treatment	SY	10. 000	10. 000		
0060	504.0500	Concrete Masonry Retaining Walls	CY	2. 500	2. 500		
0070	505. 0600	Bar Steel Reinforcement HS Coated	LB	680. 000	680. 000		
0000	E00 E100 C	Structures	CV	2 200 000		2 200 000	
0080 0090		Polymer Overlay Epoxy Injection Crack Repair	SY LF	2, 390. 000 3. 000	3. 000	2, 390. 000	
0100		Cored Holes 2-Inch Diameter	EACH	1. 000	1. 000		
0100	309. 9020. 3	Cored nores 2-inch brameter	LACII	1.000	1.000		
0110	517. 1010. S	Concrete Staining (structure) 01. R-40-398	SF	70.000	70. 000		
0120	531. 0300. S	Noise Barriers Double-Sided Sound Absorptive (structure) 01. N-40-40	SF	380.000	380. 000		
0130	603. 8000	Concrete Barrier Temporary Precast Delivered	LF	470. 000	470. 000		
0140	603. 8125	Concrete Barrier Temporary Precast Installed	LF	470. 000	470. 000		
0150	614. 0905	Crash Cushions Temporary	EACH	1. 000	1. 000		
0160	619. 1000	Mobilizati on	EACH	1. 000	0. 050	0. 950	
0170	628. 1905	Mobilizations Erosion Control	EACH	2. 000		2.000	
0180	628. 1910	Mobilizations Emergency Erosion Cont		2. 000		2.000	
0190	628. 7020	Inlet Protection Type D	EACH	25. 000	0.000	25. 000	
0200	637. 2210	Signs Type II Reflective H	SF	9. 000	9. 000		
0210	643. 0100	Traffic Control (project) 01. 030-06	-67 EACH	1. 000	1. 000		
0220	643. 0100	Traffic Control (project) 02. 1030-20	6-91 EACH	1.000		1.000	
0230	643. 0300	Traffic Control Drums	DAY	3, 150. 000	1, 602. 000	1, 548. 000	
0240	643. 0420	Traffic Control Barricades Type III	DAY	102.000	45. 000	57. 000	
0250	643. 0705	Traffic Control Warning Lights Type <i>i</i>	A DAY	172. 000	80. 000	92.000	
0260	643. 0715	Traffic Control Warning Lights Type (C DAY	622. 000	319. 000	303.000	
0270	643. 0800	Traffic Control Arrow Boards	DAY	53. 000	26. 000	27. 000	
0280	643. 0900	Traffic Control Signs	DAY	956. 000	604. 000	352. 000	
0290	643. 0910	Traffic Control Covering Signs Type		3. 000		3. 000	
0300	643. 1050	Traffic Control Signs PCMS	DAY	40.000	20.000	20.000	
0310	643. 2000	Traffic Control Detour (project) 02. 1030-26-91	EACH	1. 000		1. 000	
0320	643. 3000	Traffic Control Detour Signs	DAY	1, 015. 000		1, 015. 000	
		Removing Pavement Markings					
0350	646. 0843. S	Pavement Marking Grooved Wet Reflecti Contrast Tape 8-Inch	ve LF	881.000		881.000	
0360	647, 0726	Pavement Marking Diagonal Froxy 12-Li	nch LF	1, 157, 000		1, 157, 000	
0370	649. 0801	Temporary Pavement Marking Removable		881. 000		881. 000	
0380	SPV. 0060	Special 40. Anchor Assemblies Noise	EACH	2.000	2. 000		
0390	SPV. 0060		FACH	2 000	2 000		
0400	SPV. 0085	Special 01. Crack Sealing	LB	1, 390. 000	2.000	1, 390. 000	
0410	SPV. 0090	Special O2. Pavement Marking Contrast	t LF	171. 000		171. 000	
0420	SPV. 0090	Special 03. Pavement Marking Contras	t LF	61. 000		61. 000	
0330 0340 0350 0360 0370 0380 0390 0400 0410	646. 0106 646. 0600 646. 0843. S 647. 0726 649. 0801 SPV. 0060 SPV. 0060 SPV. 0085 SPV. 0090	1030-26-91 Traffic Control Detour Signs Pavement Marking Epoxy 4-Inch Removing Pavement Markings Pavement Marking Grooved Wet Reflecti Contrast Tape 8-Inch Pavement Marking Diagonal Epoxy 12-In Temporary Pavement Marking Removable Tape 8-Inch Special 40. Anchor Assemblies Noise Barrier Structures Special 41. Strap Anchor Special 01. Crack Sealing Special 02. Pavement Marking Contrast Epoxy 4-Inch	LF LF LF nch LF LF EACH LB	8, 334. 000 1, 762. 000 881. 000 1, 157. 000 881. 000 2. 000 1, 390. 000 171. 000	2. 000 2. 000	8, 334. 000 1, 762. 000 881. 000 1, 157. 000 881. 000 1, 390. 000	_

DATE 21	JUN16	E S	TIMATE	OF QUANT	ITIES	
LINE					1030-06-67	1030-26-91
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY	QUANTI TY
0430	SPV. 0090	Special 04. Temporary Pavement Marking Non-Reflective Black Tape 8-Inch	LF	2, 855. 000		2, 855. 000
0440	SPV. 0090	Special 05. Temporary Pavement Marking Non-Reflective Black Tape 12-Inch	LF	1, 010. 000		1, 010. 000
0450	SPV. 0180	Special 01. Resin Binder High Friction Surface Treatment	SY	31, 847. 000		31, 847. 000

SPV.0085.01 CRACK

SEALING

LB

460

700

230

1390

614.0905

CRASH

CUSHIONS

TEMPORARY

EACH

1

Ε

PROJECT NO: 1030-26-91 & 1030-06-67

HWY: IH 43/94

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

SHEET:

INLET PROTECTION (1030-26-91)

REMOVING PAVEMENT MARKINGS (1030-26-91)

646.0600 REMOVING PAVEMENT MARKINGS

CATEGORY	LOCATION	STATION	TO STATION	LF
0010	IH 43/94 NB	621+40.90	642+25.44	0
	IH 43/94 SB	621+40.90	642+25.44	1762
	TOTAL:			1762

PAVEMENT MARKINGS (1030-26-91)

				646.0 PAVEMENT EPOXY	MARKING	647.0 PAVEMENT DIAGONAL EF	Γ MA RKING	646.0843.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE	649.0801 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE	SPV.0090.02 PAVEMENT CONTRAS	_	_	
				YELLOW	WHITE	YELLOW	WHITE	8-INCH WHITE	8-INCH WHITE	4-INCH WHITE	8-INCH WHITE	8-INCH	12-INCH
CATEGORY	LOCATION	STATION	TO STATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
0010	IH 43/94 NB IH 43/94 SB	621+40.90 621+40.90	642+25.44 642+25.44	2107 2061	2197 1969	290 329	245 293	0 881	0 881	75 96	30 31	1188 1667	816 194
_			SUBTOTAL:	4168	4166	619	538	881	881	171	61	2855	1010
			TOTAL:	8334		1157		881	881	171	61	2855	1010

DETOUR ITEMS

643.3000

			TRAF	FFIC
		STAGE	CONT	ROL
		DURATION	DETOUR	SIGNS
CATEGORY	LOCATION	DAYS	**EACH**	DAY
0010				
	LAYTON AVENUE TO HOWELL AVENUE/STH 38	7	82	574
	27TH STREET/STH 241 TO HOWARD	7	63	441
	TOTAL ·			1015

FOR INFORMATION ONLY

PROJECT NO: 1030-26-91 & 1030-06-67 HWY: IH 43/94	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET:	E
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TRAFFIC CONTROL (1030-26-91)

				STAGE DURATION	643.03 TRAF CONTF DRUM	FIC ROL MS	643.0 TRAF CONT BARRIC TYP	FFIC ROL CADES E III	643.0 TRAI CONT WARNING TYP	FFIC TROL 3 LIGHTS PE A	643.0 TRAF CONTI WARNING TYPE	FIC ROL LIGHTS E C	643.0 TRAI CONT ARROW E	FFIC FROL BOARDS	643.0 TRAF CONTI SIGN	FIC ROL NS	643.091 TRAFFIC CON COVERING S TYPE I NUMBER	NTROL SIGNS	643.1 TRAI CONT SIG PCI	FFIC TROL NS VIS	
_	CATEGORY	STAGE	LOCATION	DAYS	**EACH**	DAY	**EACH**	DAY	**EACH**	DAY	**EACH**	DAY	**EACH**	DAY	**EACH**	DAY	OF CYCLES	EACH	**EACH**	DAY	COMMENT
3	0010	1	IH 43/94 NB (CLOSE THREE RIGHT LANES)	1 1	319 273	319 273	13 9	13 9	20 16	20 16	56 56	56 56	4 4	4 4	74 62	74 62	1 0	3	4 4	4 4	HFST (HOWARD ON-RAMP CLOSED) POLYMER OVERLAY (HOWARD ON-RAMP OPEN)
		2	IH 43/94 NB (CLOSE THREE LEFT LANES)	2	260	520	0	0	0	0	52	104	5	10	28	56	0	0	0	0	HFST & POLYMER OVERLAY
		3	IH 43/94 SB (CLOSE THREE RIGHT LANES)	2	84	168	10	20	16	32	13	26	1	2	38	76	0	0	0	0	HFST & POLYMER OVERLAY
			IH 43/94 SB (CLOSE TWO RIGHT LANES) ON-RAMP CLOSURE (HOWARD AVE) 1-LANE CLOSURE	1 1	24 28	24 28	5 0	5 0	8 0	8 0	0 13	0 13	0 1	0 1	14 10	14 10	0 0	0 0	0 0	0 0	PA V EMENT MARKING PA V EMENT MARKING
		4	IH 43/94 SB (CLOSE THREE LEFT LANES) UNDISTRIBUTED	2	108	216 0	5	10 0	8	16 0	24	48 0	3	6	30	60	0	0	0	0 12	HFST & POLYMER OVERLAY
		TOTAL:				1548		57		92		303		27		352		3		20	

FOR INFORMATION ONLY

TRAFFIC CONTROL (1030-06-67)

			STAGE DURATION	643.0 TRAF CONT DRU	FIC ROL	643.0 TRAI CONT BARRIC TYP	FFIC TROL CADES	643.0 TRAF CONT WARNING TYPI	FIC ROL LIGHTS	CONT WARNING	FFIC ROL	643.0 TRA CONT ARROW I	FFIC TROL	643.09 TRAFF CONTR SIGN	FIC ROL	643.° TRA CON' SIG PC	FFIC TROL INS	
CATEGORY	STAGE	LOCATION	DAYS	**EACH**	DAY	**EACH**	DAY	**EACH**	DAY	**EACH**	DAY	**EACH**	DAY	**EACH**	DAY	**EACH**	DAY	COMMENT
0010	1	IH 43/94 NB CLOSE THREE RIGHT LANES (HOWARD ON-RAMP OPEN) CLOSE SHOULDER	5 33	273 4	1365 132	9 0	45 0	16 0	80 0	56 0	280 0	4 0	20 0	62 8	310 264	4 0	20 0	REMOVE AND REPLACE RETAINING WALL
	2	IH 43/94 NB CLOSE ONE RIGHT LANE	3	35	105	0	0	0	0	13	39	2	6	10	30	0	0	INSTALLING NOISE WALL
<u> </u>	TOTAL:				1602		45		80	·	319		26	-	604		20	

FOR INFORMATION ONLY

PROJECT NO: 1030-26-91 & 1030-06-67	HWY: IH 43/94	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIE	S		SHEET:	Е
FILE NAME: N:\PDS\C3D\10302630\SHEETSPLAN\030201_mq		PLOT DATE :	PLOT BY :	PLOT NAME :	PLOT SCALE : 1:1		

Т	YPE II PERMANENT SIGNING	- CATEGO	ORY 0010	Proje	ct 1030-26-91

				-			1.10,000.1000.2001
						637.2210	
						SIGNS	
	SIGN			SIGN		TYPE II	
SIGN	CODE	SIGN		SIZE		REFLECTIVE	
NO.	& SIZE	MESSAGE	W	Х	Н	Н	
			[IN.]	х	[IN.]	[SF]	REMARKS / NEW SIGN LOCATION
1	D9-54(2S)	4254 S. 5th St	18	Х	24	3.000	MOUNT ON WALL - SEE DETAIL
2	D9-54(2S)	4254 S. 5th St	18	Х	24	3.000	MOUNT ON WALL - SEE DETAIL
3	NONE	BLANK - IDENTIFIER BLADE	36	Х	6	1 1 500	BLUE BACKGROUND - MOUNT ON WALL
							BRACKETS INCIDENTAL BLUE BACKGROUND - MOUNT ON WALL
4	NONE	BLANK - IDENTIFIER BLADE	36	Χ	6	1 1 500	BRACKETS INCIDENTAL
TOTALS						9.000	

PROJECT NO: 1030-26-91 HWY: IH 43/94/894 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES – PERMANENT SIGNING SHEET: **E**

Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-01D	PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP
15D14-03	TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS)
15D16-03	TRAFFIC CONTROL, EXIT RAMP CLOSURE





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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

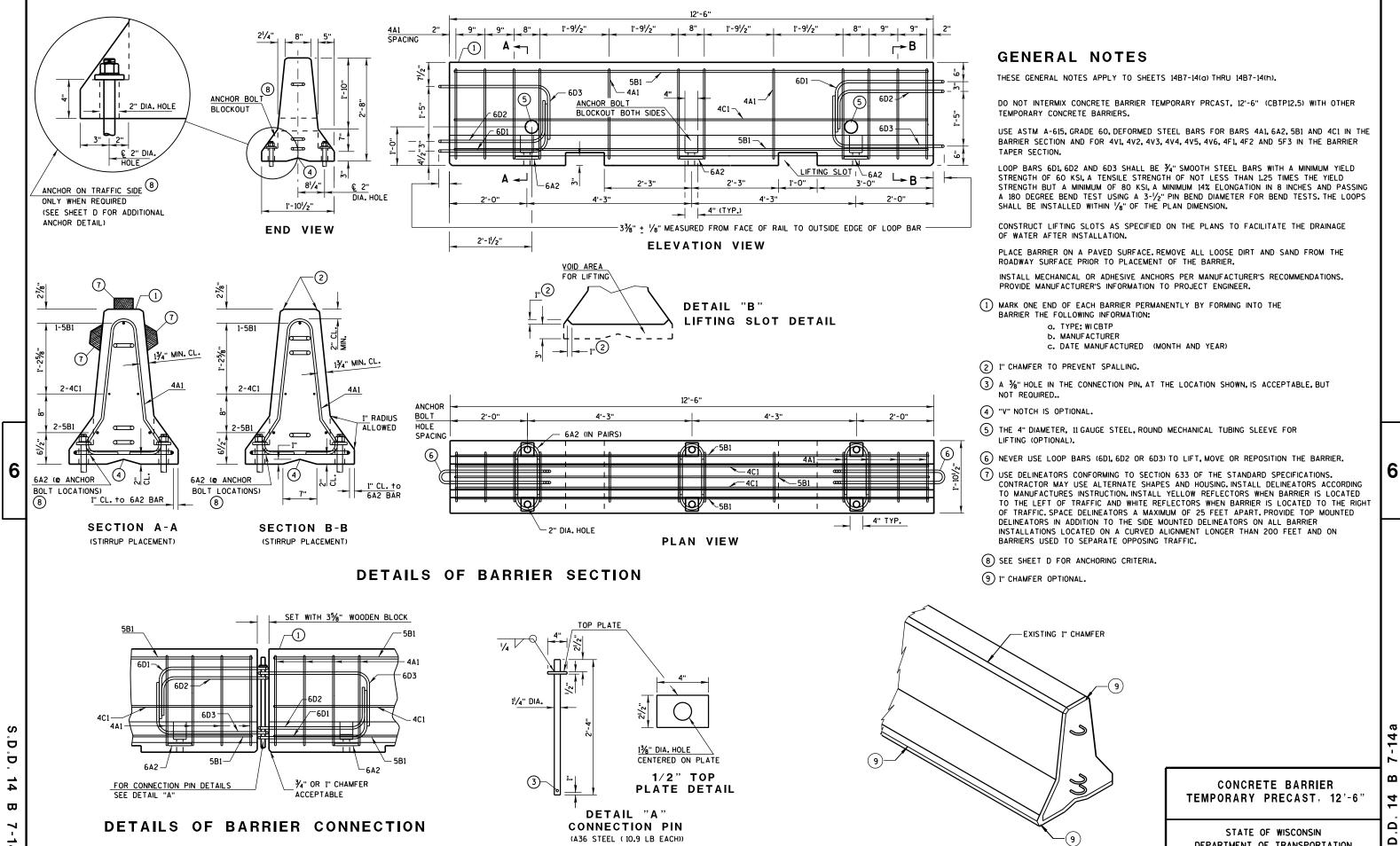
10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

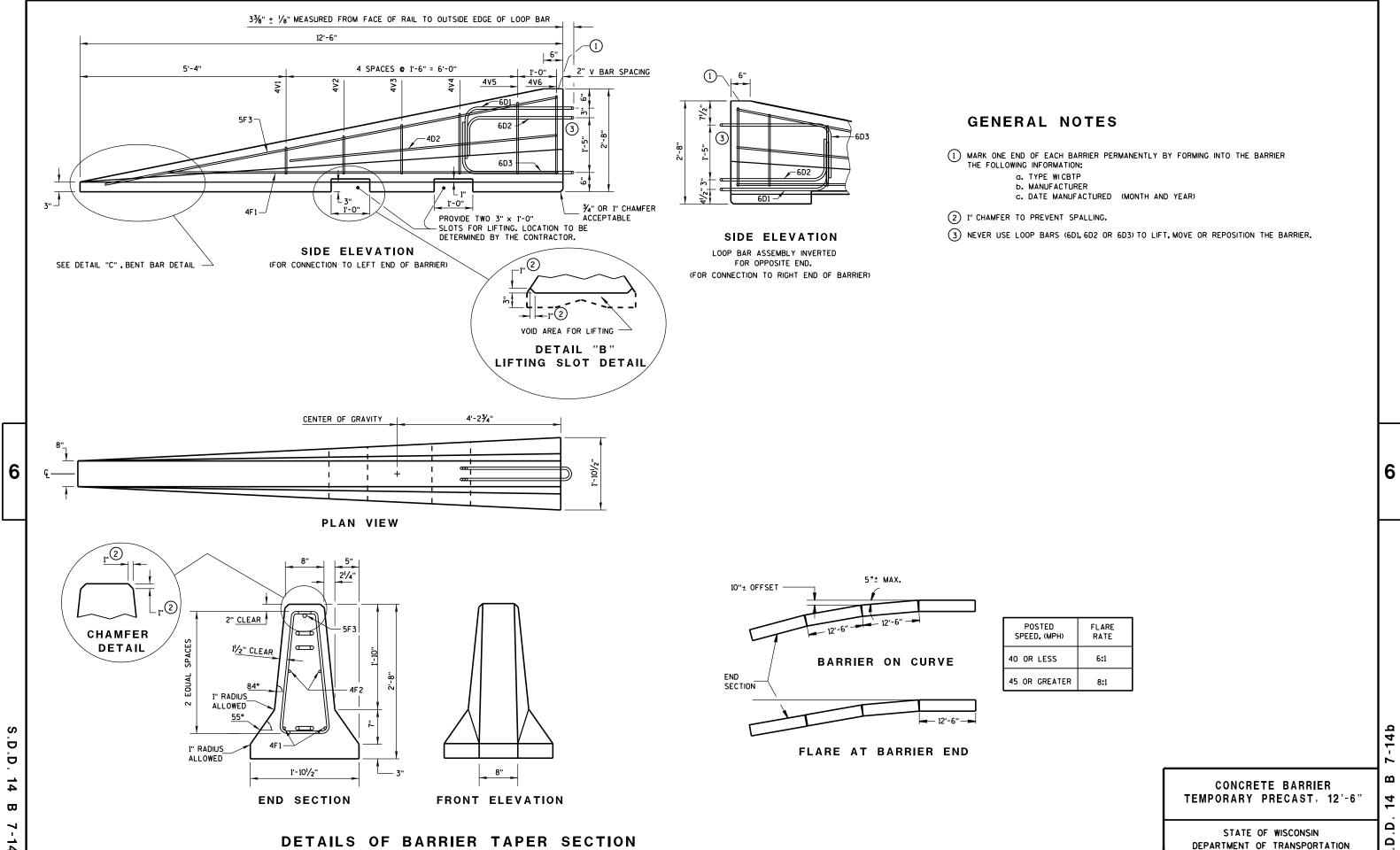
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DEPARTMENT OF TRANSPORTATION



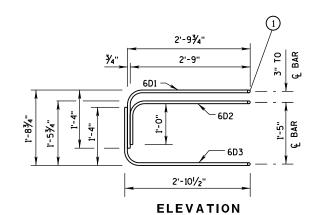
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1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

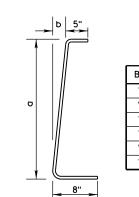
BARRIER TAPER SECTION BILL OF MATERIALS

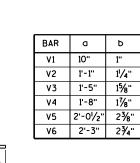
(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANNEN TATEN SECTION									
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.						
4V1	4	2	1'-11"						
4V2	4	2	2'-2"						
4٧3	4	2	2'-6"						
4V4	4	2	2'-9"						
4V5	4	2	3'-2"						
4V6	4	2	3'-4"						
4F1	4	2	12'-0"						
4F2	4	2	7'-6"						
5F3	5	1	11'-9"						
L	OOP AS	SSEMBL	Υ						
6D1	6	1	8'-5"						
6D2	6	1	7'-7"						
6D3	6	1	8'-6"						
		•	•						



LOOP BAR ASSEMBLY





DETAIL "C" BENT BAR DETAIL

2" MIN. CLEAR

2" MIN. CLEAR

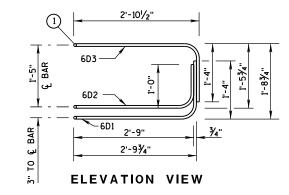
4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

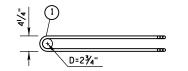
TAPER BARRIER SECTION

BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

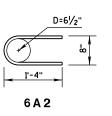
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

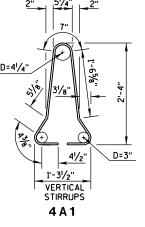




PLAN VIEW Loop bar assembly

(MARKED END SHOWN, INVERT FOR OTHER END)



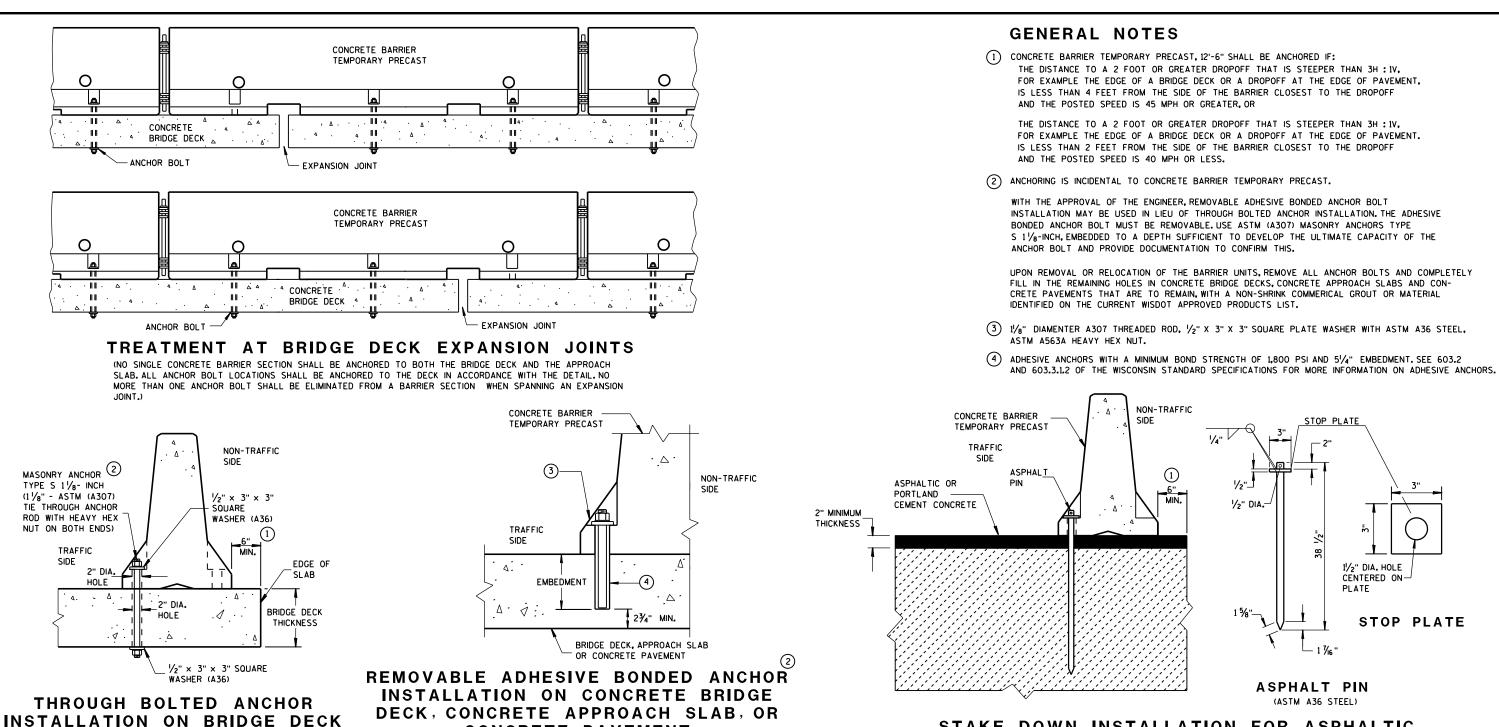


BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

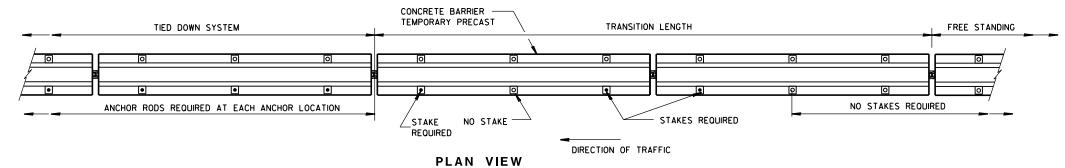
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

.D.D. 14 B 7-14c



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

6

D

 \Box

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

11/2" DIA. HOLE

CENTERED ON-

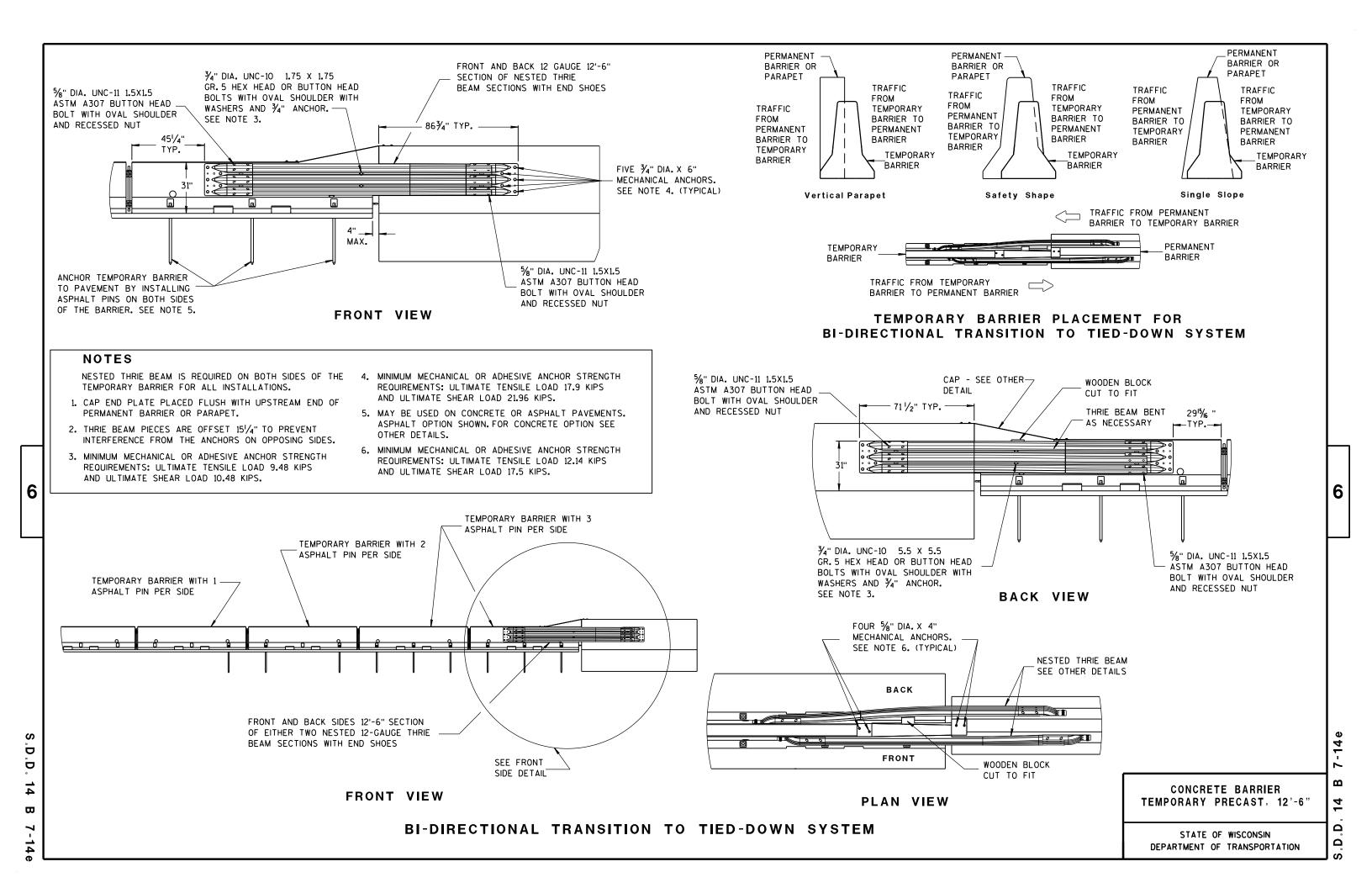
STOP PLATE

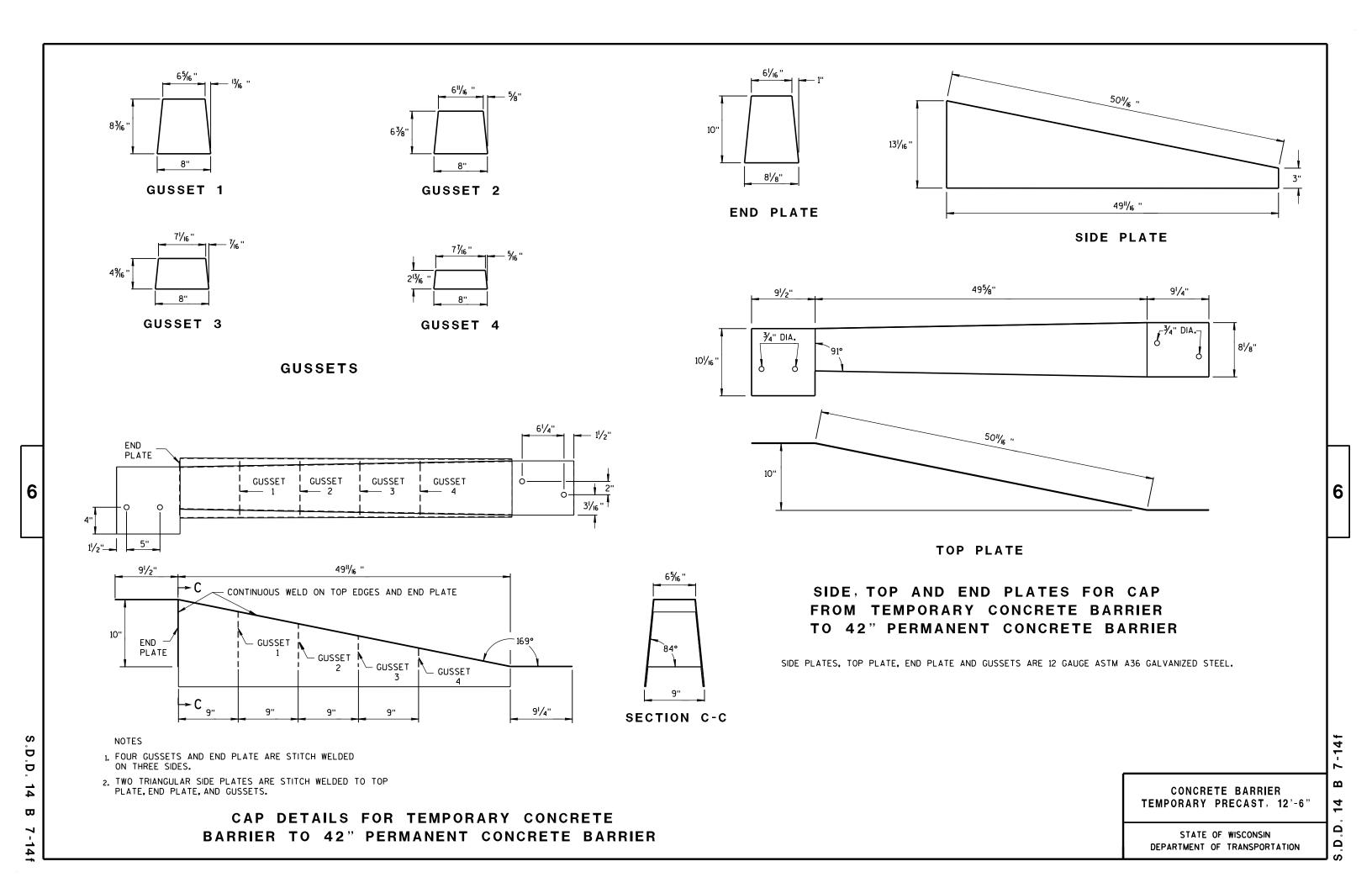
PLATE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

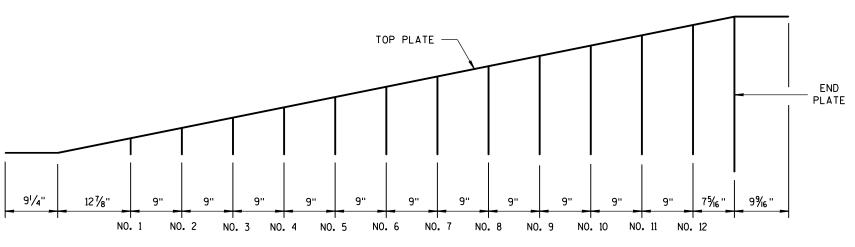
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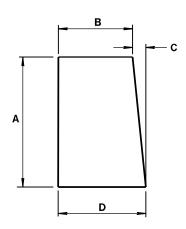
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GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS						
GUSSET No.	A	В	С	D		
1	21/8"	73/4"	1/4"	8		
2	4"/16 "	7% "	1/2"	8		
3	61/2"	73/8"	11/16 "	8½6"		
4	85%"	73/16"	⅓ "	81/16"		
5	101/8"	7"	1 1/16 "	81/16"		
6	11 ¹⁵ / ₁₆ ''	6 ¹³ // ₆ "	1 1/4"	81/16"		
7	13¾"	65/8"	1 1/6"	81/16 "		
8	15% "	6 ½ "	1 % "	81/16"		
9	173/8"	61/4"	1 13/16 ''	81/16"		
10	193/6"	6½ ₆ "	1 15/16 "	81/16 "		
11	21"	5 1/8"	23/6"	8½ ₆ "		
12	22 ¹³ / ₁₆ "	5 ¹¹ / ₁₆ "	25/6"	8½ ₆ "		

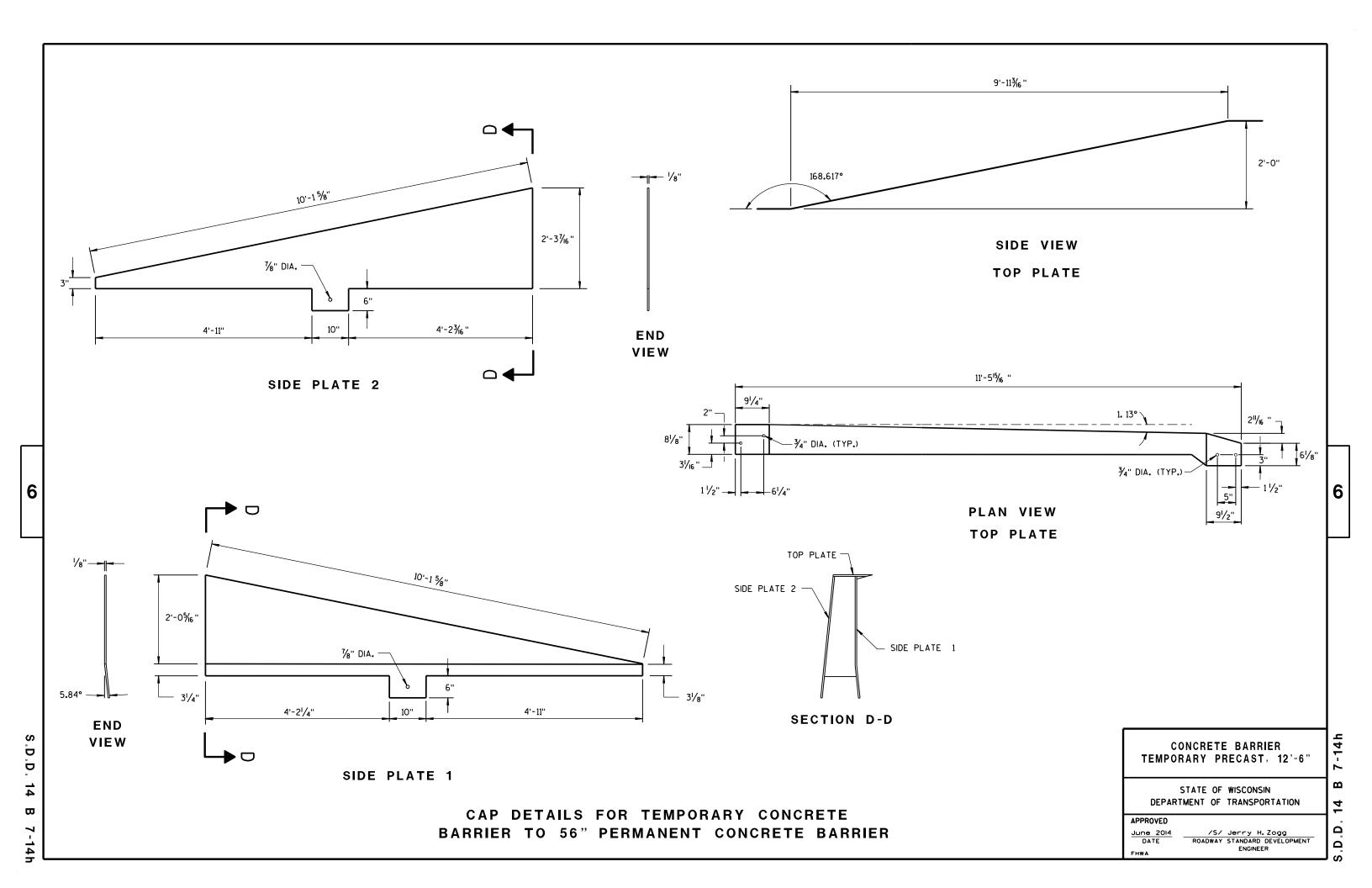
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

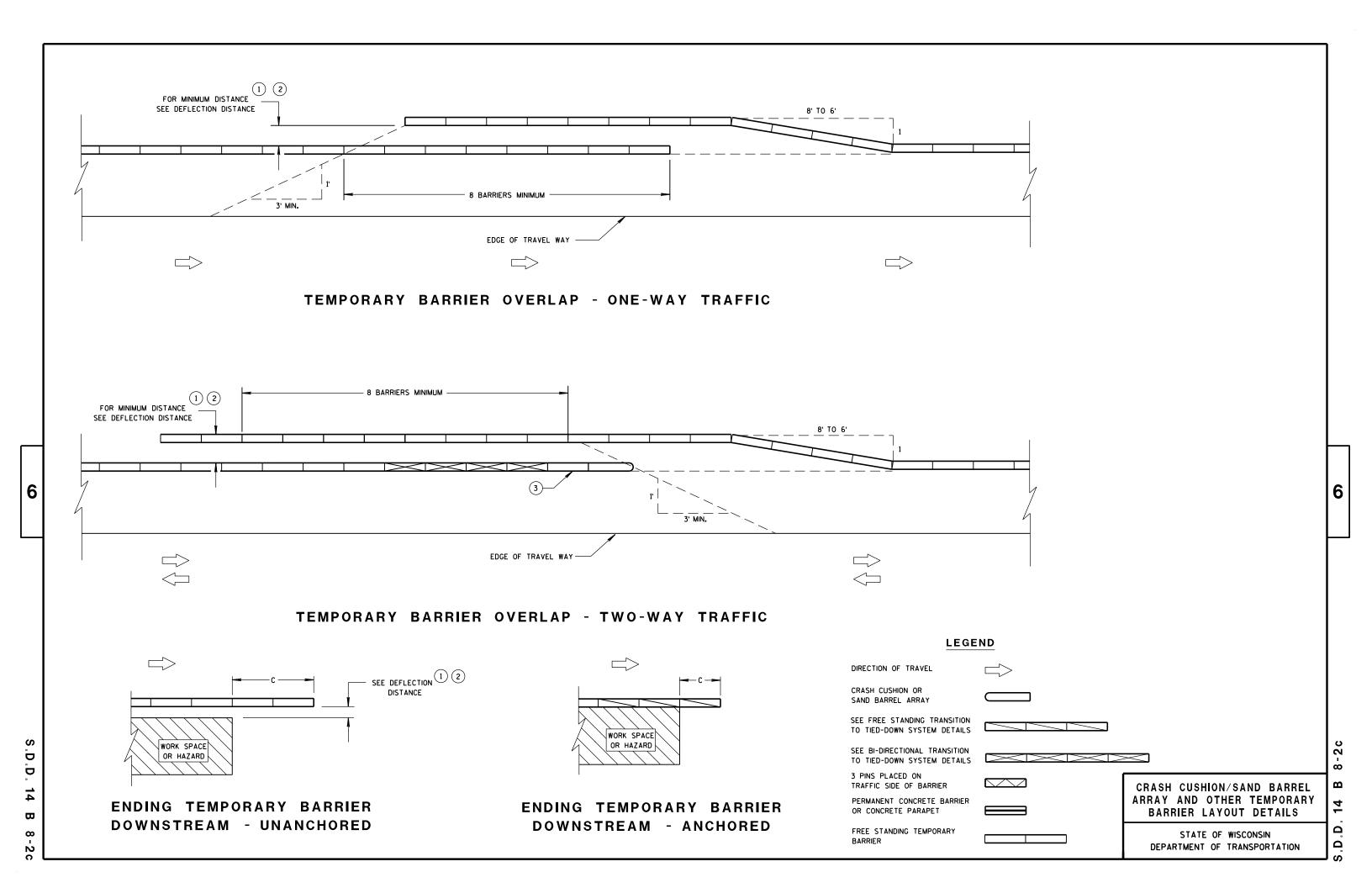
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

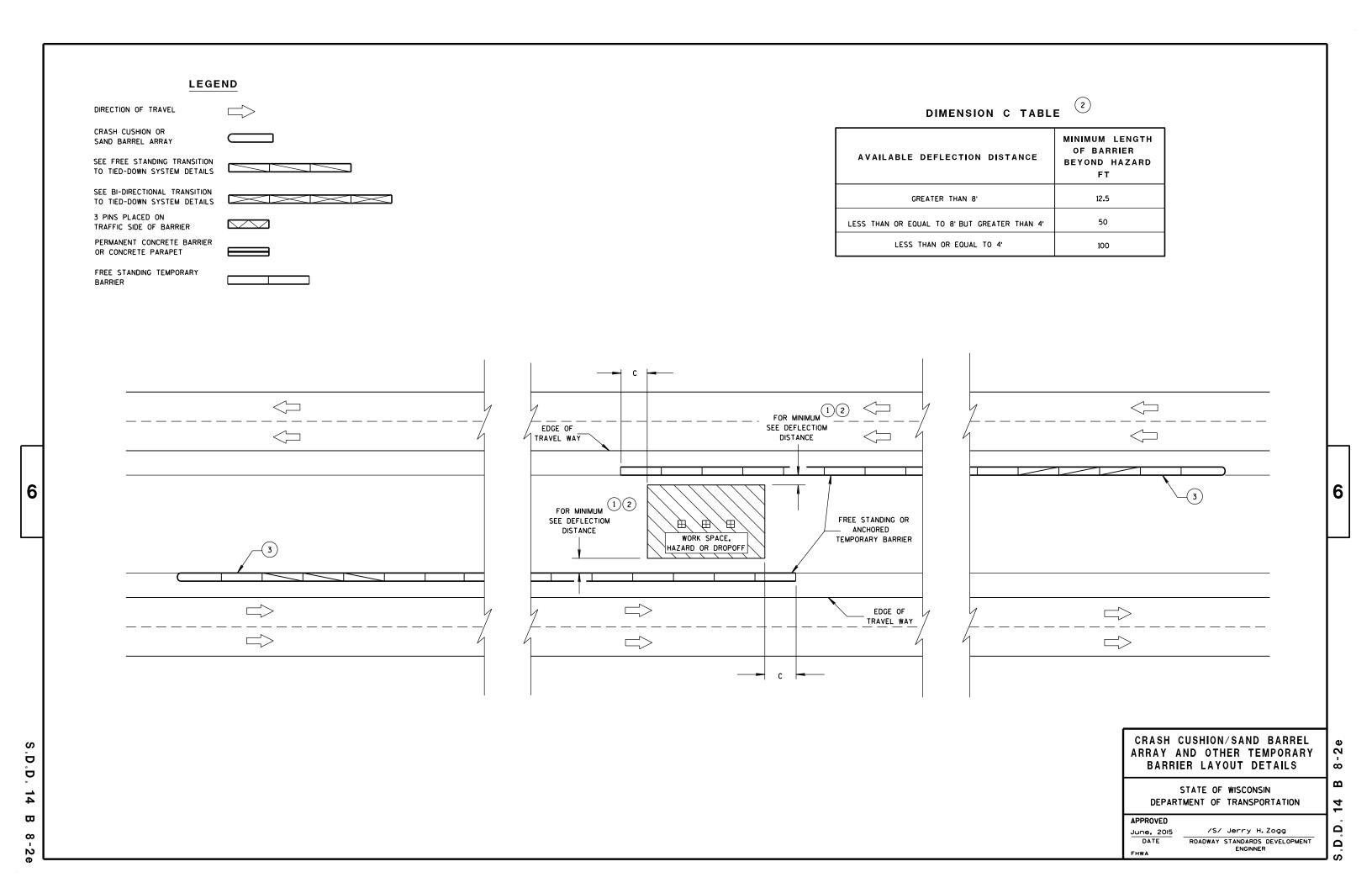
> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

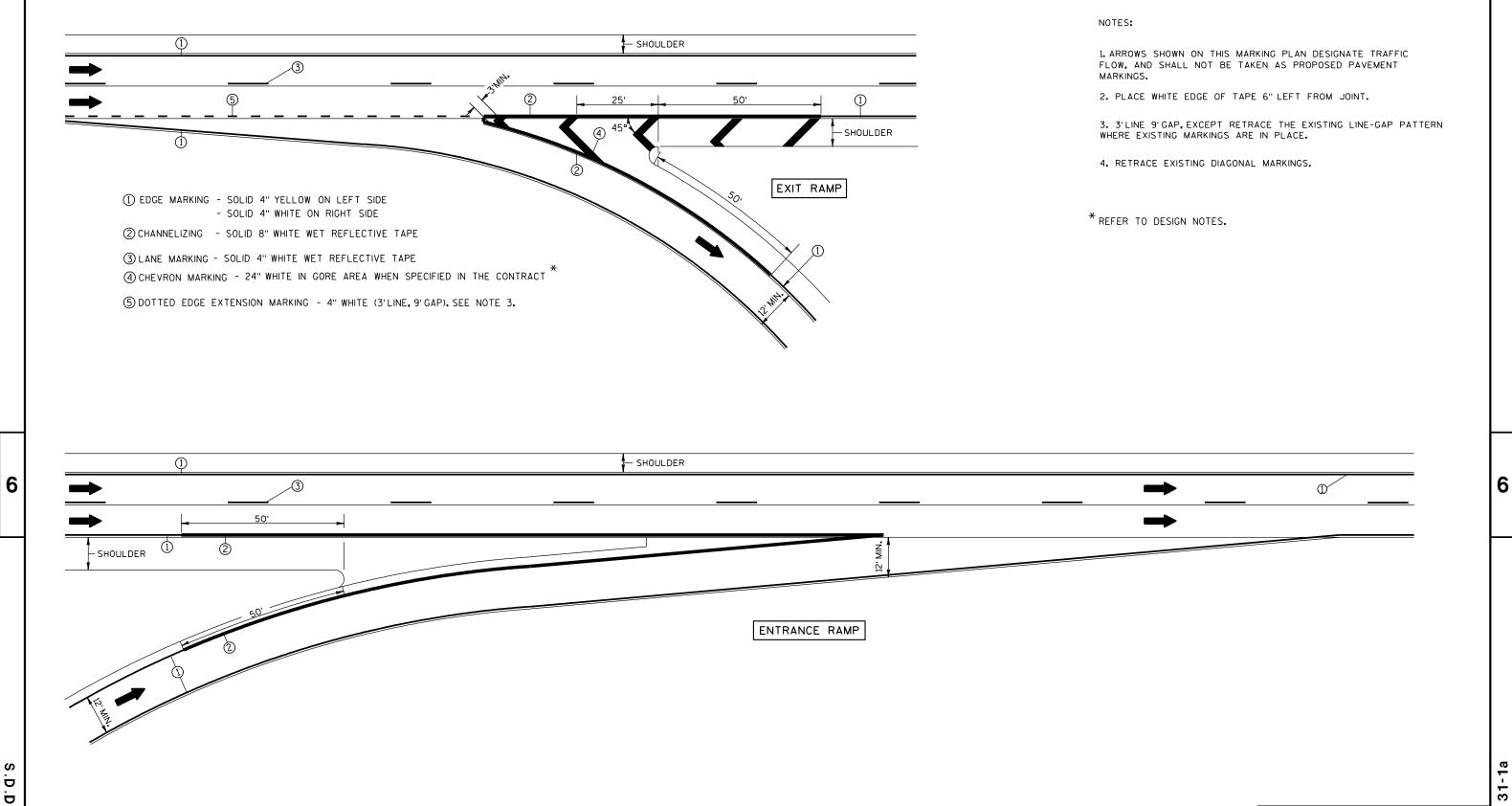
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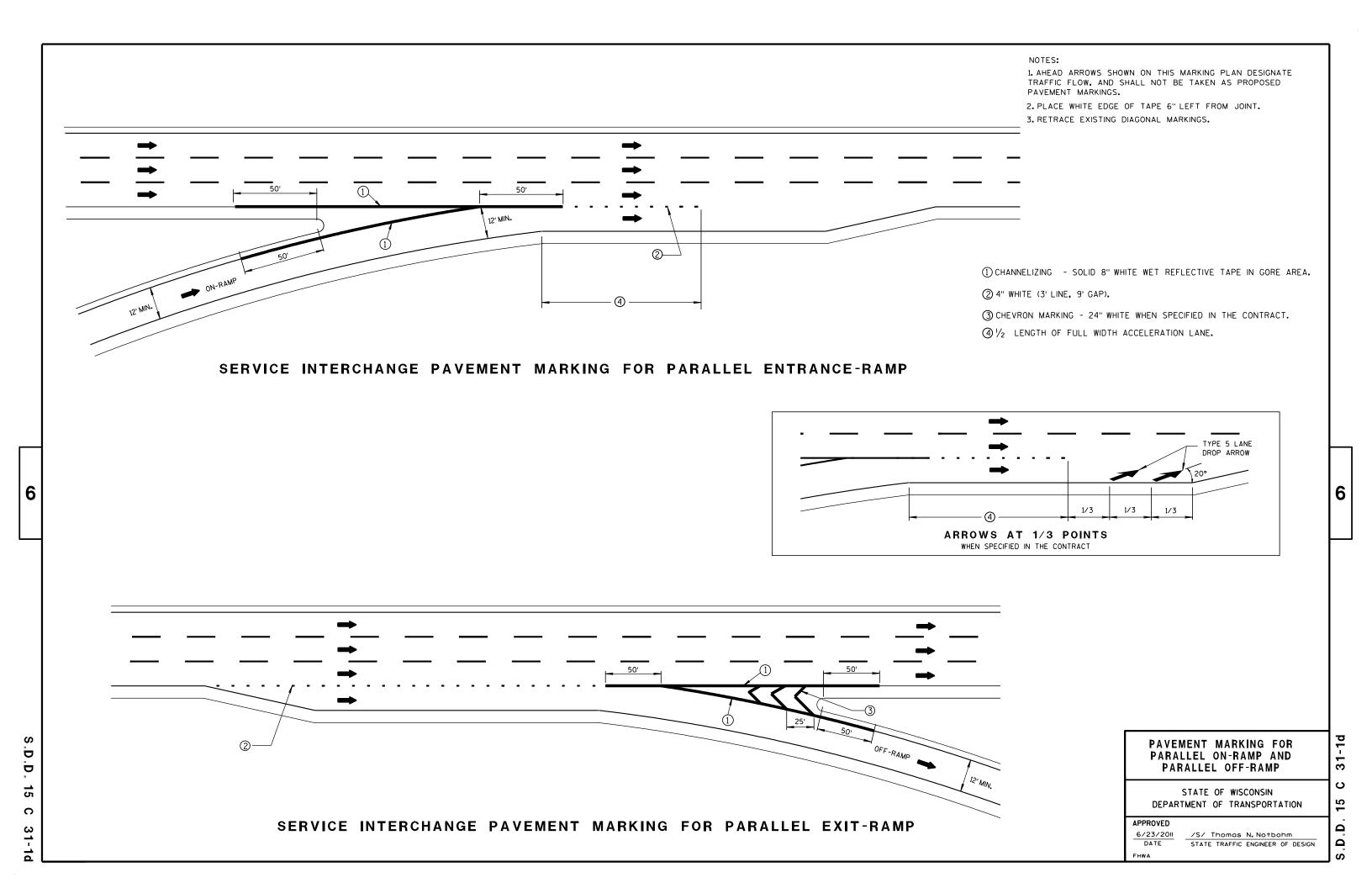


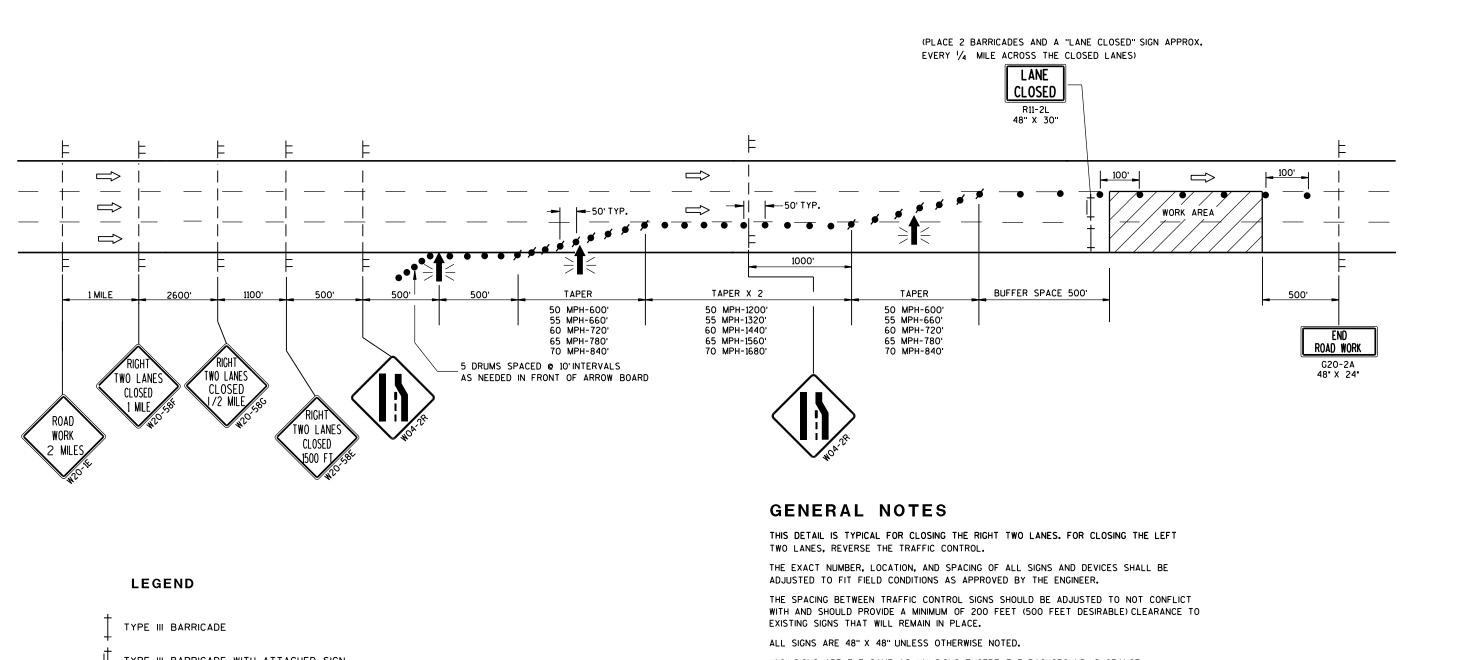
C

3.D.D. 15 C 31-1a

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (RAMPS AND GORES)





6

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TRAFFIC CONTROL DRUM

FLASHING ARROW BOARD

DIRECTION OF TRAFFIC

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

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

W20-IE AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

WHEN A RAMP OR SIDE ROAD INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

BARRICADES IN A CLOSED LANE 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.

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

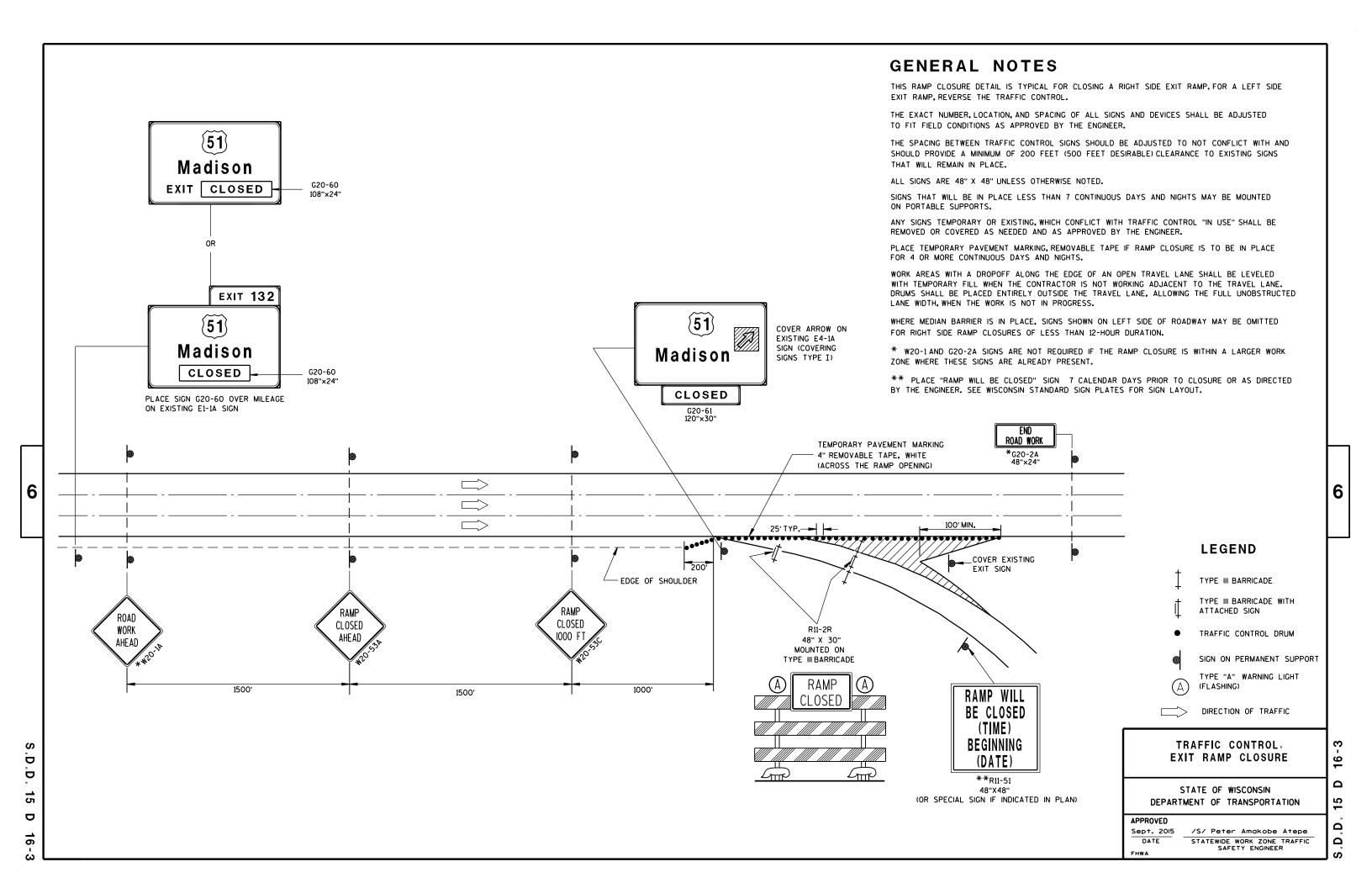
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM (LESS THAN 24 HOURS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

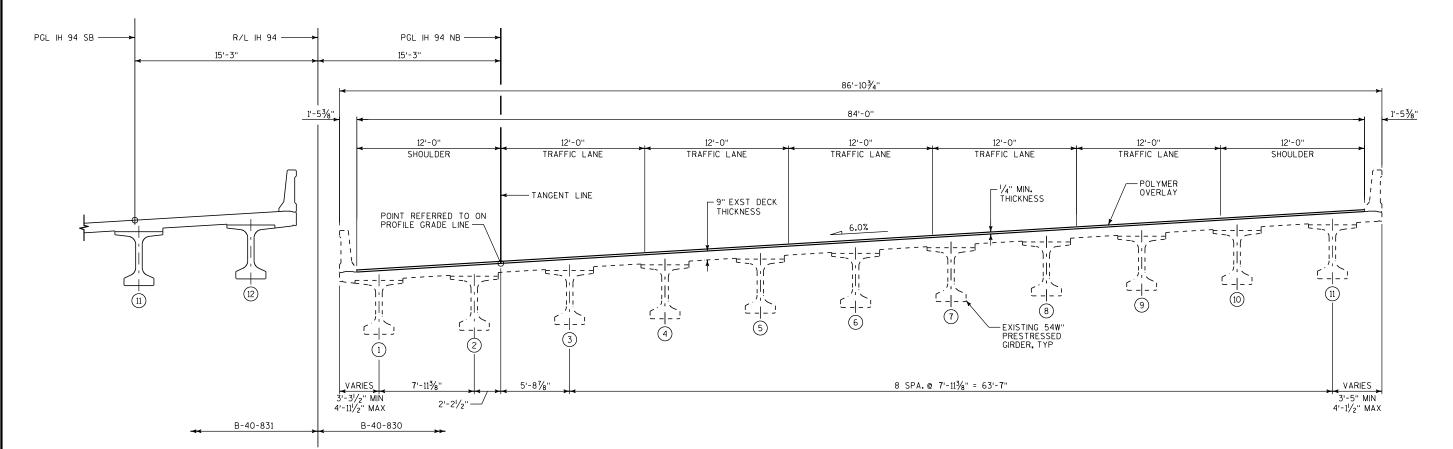
July 14, 2015 /S/ Peter Amakobe Atepe DATE STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

Ω



STATE PROJECT NUMBER 1030-26-91 -PGL IH 94 SB B-40-831 118'-93/4" BACK TO BACK OF ABUTMENTS -R-40-420 1'-113/4". 114'-101/4" -R/L IH 94 R-40-419 -C/L BRG TO C/L BRG ALONG TANGENT LINE 623 TRAFFIC DATA 6TH STREET A.D.T. = 11,600 (2035) A.D.T. = 156,900 (2035) R.D.S. = 30 MPH R.D.S. = 60 MPH END OF DECK STA 622+72.69 POINT OF TANGENCY C/L BEARING STA 623+88.64 C/L BEARING STA 622+74.65 15.25' RT STA 623+24.54, 15.25' RT - TANGENT LINE TO PGL IH 94 NB LIST OF DRAWINGS 15.25' RT STA 623+27.95, 15.25'RT END OF DECK STA 623+89.93 R/L IH 94 = STA 15S+48.88 1. GENERAL PLAN R/L 6TH STREET 2. TYPICAL SECTION 15.25' RT DESIGN DATA LIVE LOAD: B-40-830 DESIGN LOADING: HL-93 R/L 6TH STREET-INVENTORY RATING FACTOR: RF = 1.00 OPERATING RATING FACTOR: RF = 1.55 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS 5 15 STRUCTURES DESIGN CONTACTS -R-40-398 BRIDGE OFFICE: WILLIAM DREHER CONSULTANT: KARL SCHMID RETAINING WALL (608) 266-8489 R-40-410 (414) 272-2426 C/L BEARING C/L BEARING EAST ABUTMENT WEST ABUTMENT W BOLIVAR AVE NO. DATE REVISION ORIGINAL PLANS PREPARED BY Ch2m: PLAN MILWAUKEE, WISCONSIN (SINGLE SPAN - 54W" PRESTRESSED CONCRETE GIRDER) STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 8 6/8/16 William C. Drehen ACCEPTED _ CHIEF STRUCTURES DESIGN ENGINEER **SCHMID** DATE TOTAL ESTIMATED QUANTITES GENERAL NOTES E-30812 STRUCTURE B-40-830 DRAWINGS SHALL NOT BE SCALED. MILWAUKEE, IH 43 NB/IH 94 WB OVER 6TH STREET BID ITEMS ITEM NO. UNITS TOTAL TOWN/CITY/VILLAGE MILWAUKEE DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS. 509.5100.S POLYMER OVERLAY MILWAUKEE 1,100 SONAL ENG ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. DESIGN SPEC. REHABILITATION N/A ALL STATIONS AND ELEVATIONS ARE IN FEET. ALL ITEMS ARE CATEGORY 20 DESIGNED BY SGM CK'D. DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY". SHEET 1 OF 2 FOR LANE CLOSURES FOR POLYMER OVERLAY APPLICATION, SEE ROADWAY PLANS. GENERAL PLAN

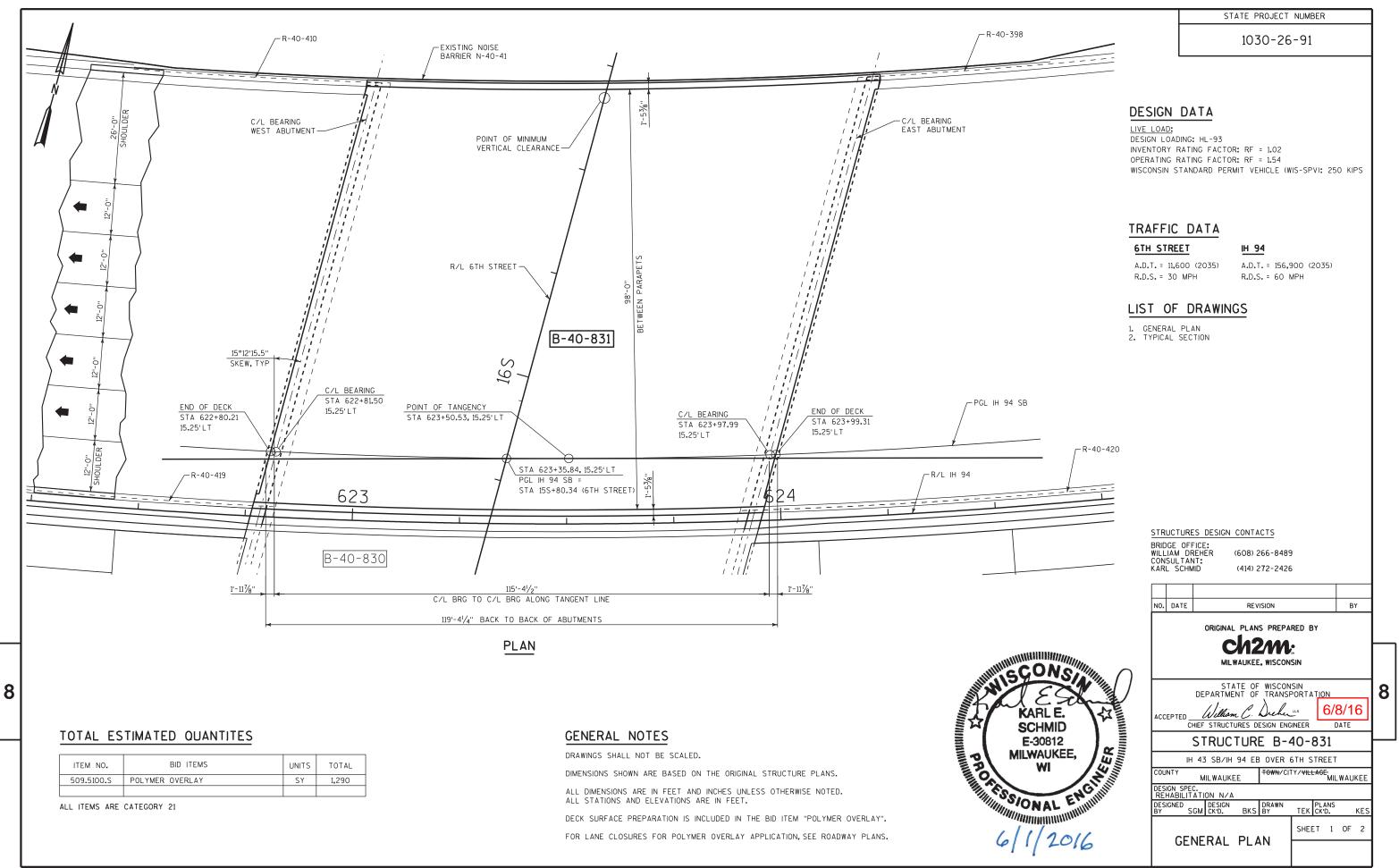
STATE PROJECT NUMBER 1030-26-91

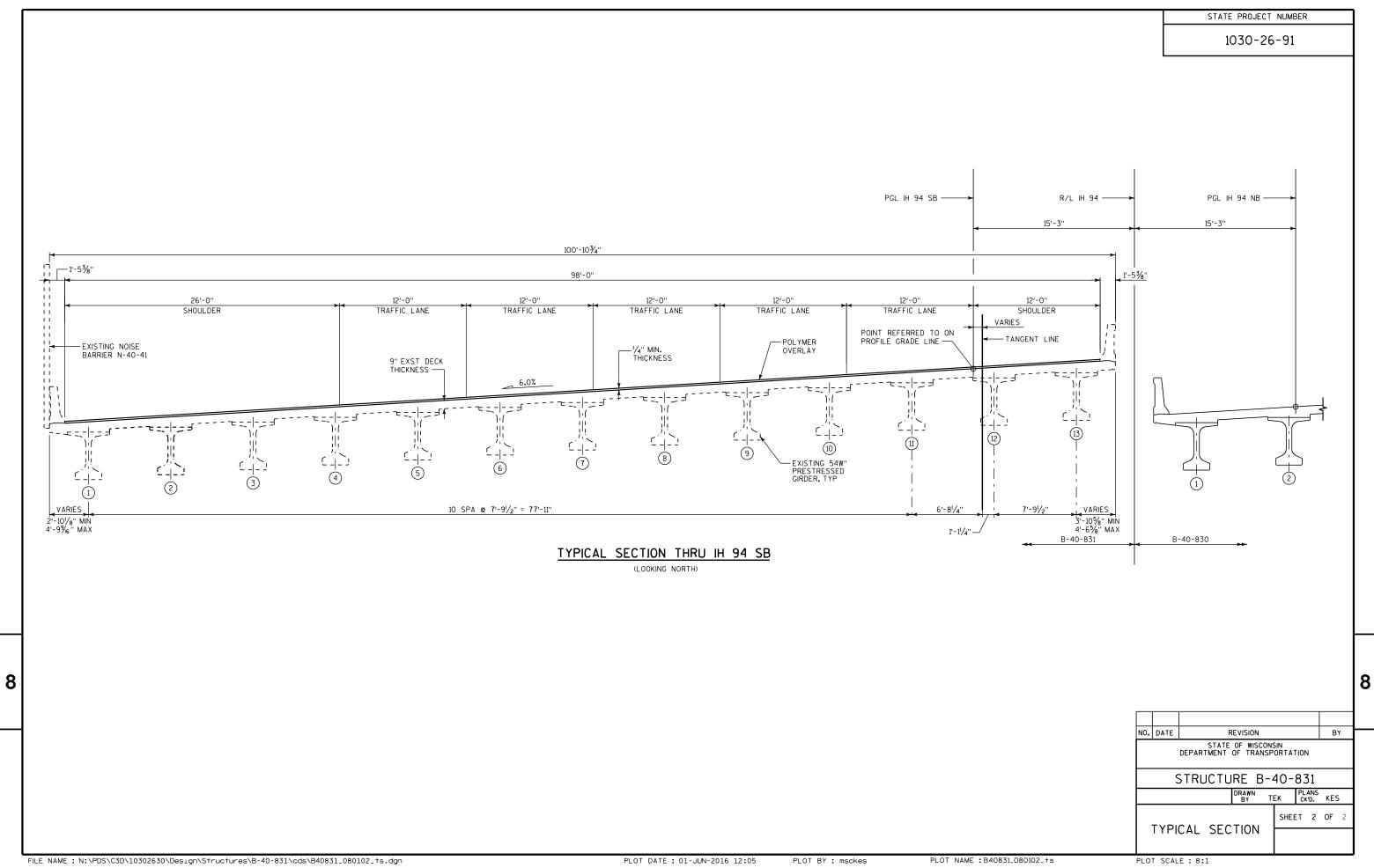


TYPICAL SECTION THRU IH 94 NB

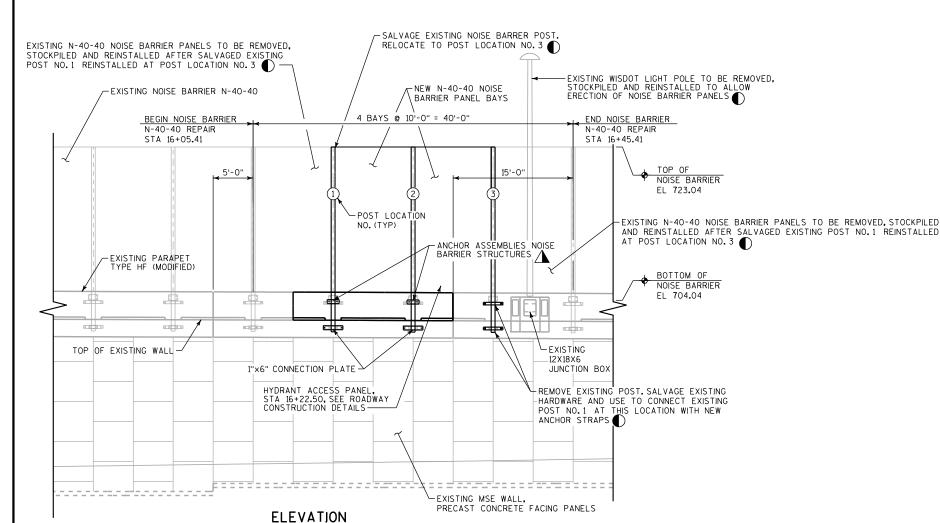
(LOOKING NORTH)

8 NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-40-830 DRAWN BY TEK CK'D. KES SHEET 2 OF 2 TYPICAL SECTION PLOT BY: msckes





1030-06-67



(LOOKING NORTHWEST AT OUTSIDE FACE OF NOISE BARRIER)

GENERAL NOTES

8

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ELEVATIONS ARE IN FEET, ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).

ALL DIMENSIONS ARE ALONG THE R/L FOR N-40-40 ALONG THE FRONT FACE OF NOISE BARRIER, UNLESS OTHERWISE SHOWN.

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE NOISE BARRIER IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE NOISE BARRIER MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCIDENTAL TO THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORDETIVE NEWSCORD." SOUND ABSORPTIVE N-40-40.

PLANS, ELEVATIONS AND DETAILS SHOWN ARE INTENDED TO INDICATE LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE NOISE BARRIER IS TO BE DESIGNED USING THE TOP OF NOISE BARRIER AND THE BOTTOM OF NOISE BARRIER ELEVATIONS ON THE ELEVATION VIEW.

THE TOP OF NOISE BARRIER ELEVATION IS THE TOP PAY LIMIT FOR THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-40-40. NOISE BARRIER PLACED ABOVE THE TOP OF NOISE BARRIER ELEVATION WILL NOT BE MEASURED FOR PAYMENT.

THE BOTTOM OF NOISE BARRIER ELEVATION IS THE BOTTOM PAY LIMIT FOR THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-40-40. NOISE BARRIER PLACED BELOW THE BOTTOM OF NOISE BARRIER ELEVATION WILL NOT BE MEASURED FOR PAYMENT.

ALL NOISE BARRIERS SHALL BE DESIGNED IN ACCORDANCE WITH THE 1989 GUIDE SPECIFICATIONS FOR STRUCTURAL DESIGN OF SOUND BARRIERS, INCLUDING THE 1992 AND 2002 INTERIM'S BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

THE FOLLOWING DESIGN PRESSURES SHALL BE USED IN ACCORDANCE WITH THE

SPECIAL PROVISIONS: 37.5 P.S.F. FOR STRUCTURE MOUNTED BARRIERS

REINFORCING STEEL IN THE CONCRETE CORE OF THE NOISE BARRIER PANELS SHALL HAVE A MINIMUM CLEARANCE OF 1 INCH. THE CONCRETE CORE SHALL BE DESIGNED TO RESIST THE LOADS WITHOUT CONSIDERING ANY COMPOSITE ACTION FROM OTHER MATERIAL IN THE PANEL.

BOTTOM NOISE BARRIER PANELS SHALL BE DESIGNED TO SUPPORT THE DEAD LOAD (WEIGHT) OF THE PANELS DIRECTLY ABOVE IT AND ITS OWN DEAD LOAD. THE DEAD LOAD SHALL BE DISTRIBUTED UNIFORMLY ASSUMING SIMPLE BEAM ACTION WITH SUPPORTS AT THE POSTS. BOTTOM PANELS SHALL HAVE A MINIMUM AMOUNT OF PERIMETER REINFORCMENT OF A #4 BAR WHICH SHALL BE CONTINUOUS

FOR CONSTRUCTION SEQUENCE, SEE RETAINING WALL R-40-398 PLANS.

A COMPRESSIBLE BEARING PAD OF '/A" THICK SHALL BE PROVIDED BETWEEN THE FOUNDATION AND THE BOTTOM PANELS, THE BEARING PADS SHALL BE PREFORMED EPDM RUBBER CONFORMING TO ASTM D-2000, GRADE 2, TYPE A, CLASS A WITH A MINIMUM DUROMETER HARDNESS OF 80. BEARING PADS SHALL BE INCIDENTAL TO THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-40-40.

INCLUDE THE COST OF THE STONE PATTERN SURFACE TREATMENT, REVEALS, COATING OF STEEL POSTS AND CONNECTIONS, AND COLORING/STAINING THE PANELS, UNDER THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-40-40.

LOCATE HYDRANT ACCESS HOLES IN NOISE BARRIERS WITH COVER SIGNS AT LOCATIONS SHOWN ON THE ELEVATION VIEW. PROVIDING HYDRANT ACCESS HOLES IS INCIDENTAL TO THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-40-40.

LIST OF DRAWINGS

- ELEVATION, GENERAL NOTES & QUANTITIES
- NOISE BARRIER POST CONNECTION DETAILS
- ARCHITECTURAL DETAILS

LEGEND

INCLUDED IN RETAINING WALL R-40-398 BID ITEM "REMOVING MASONRY"

NOT A NOISE BARRIER BID ITEM

TOTAL ESTIMATED QUANTITIES

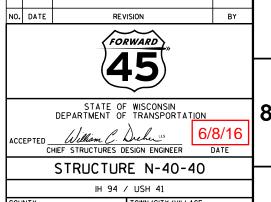
ITEM NO	BID - ITEM	UNIT	TOTAL
531 . 0300 . S	NOSIE BARRIERS DOUBLE-SIDED SOUND ABSORPTIVE N-40-40	SF	380

ALL ITEMS ARE CATEGORY 90

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER CONSULTANT: KARL SCHMID

(608) 266-8489 (414) 272-2426



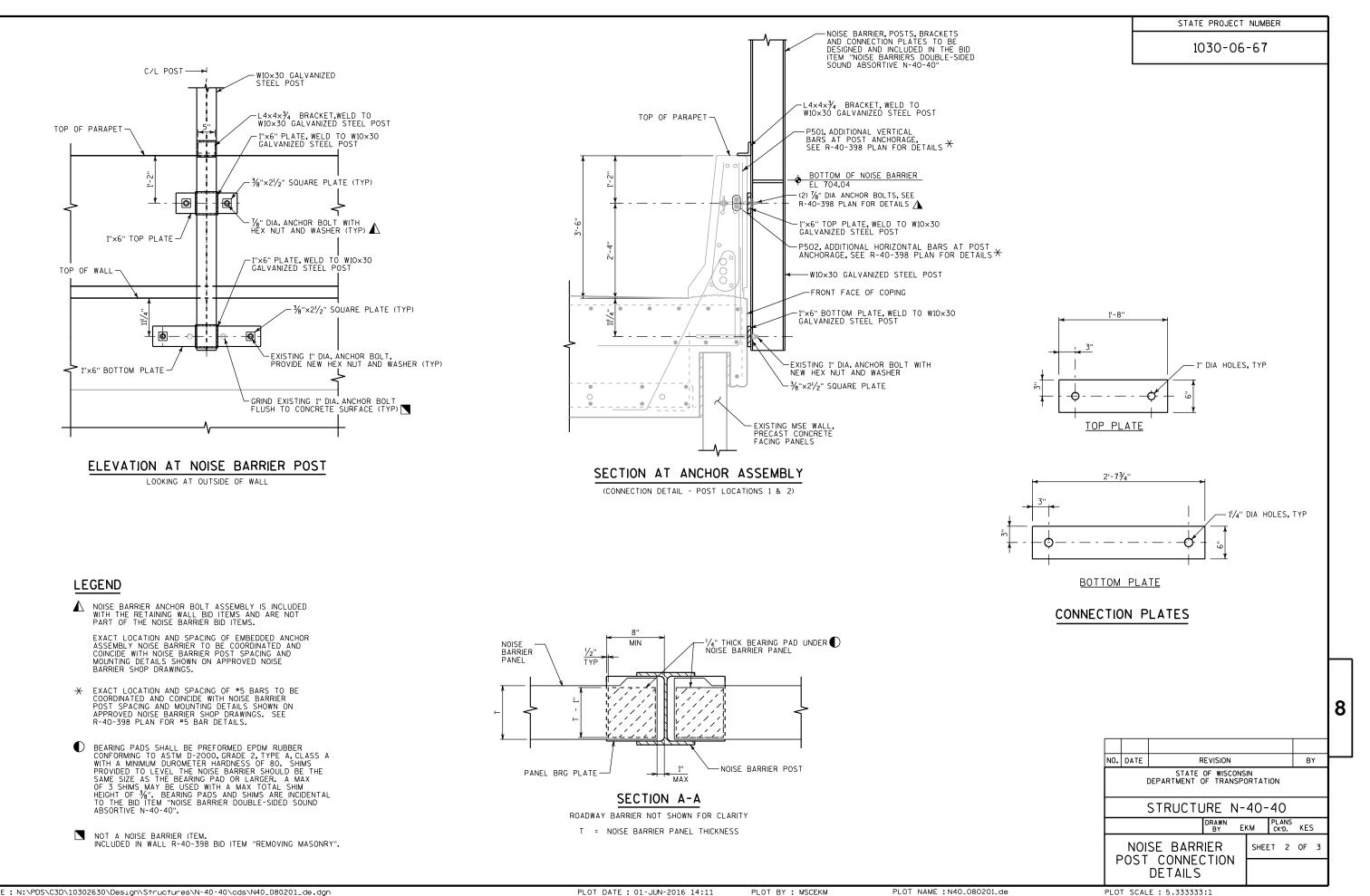
TOWN/CITY/VILLAGE MILWAUKEE COUNTY MILWAUKEE

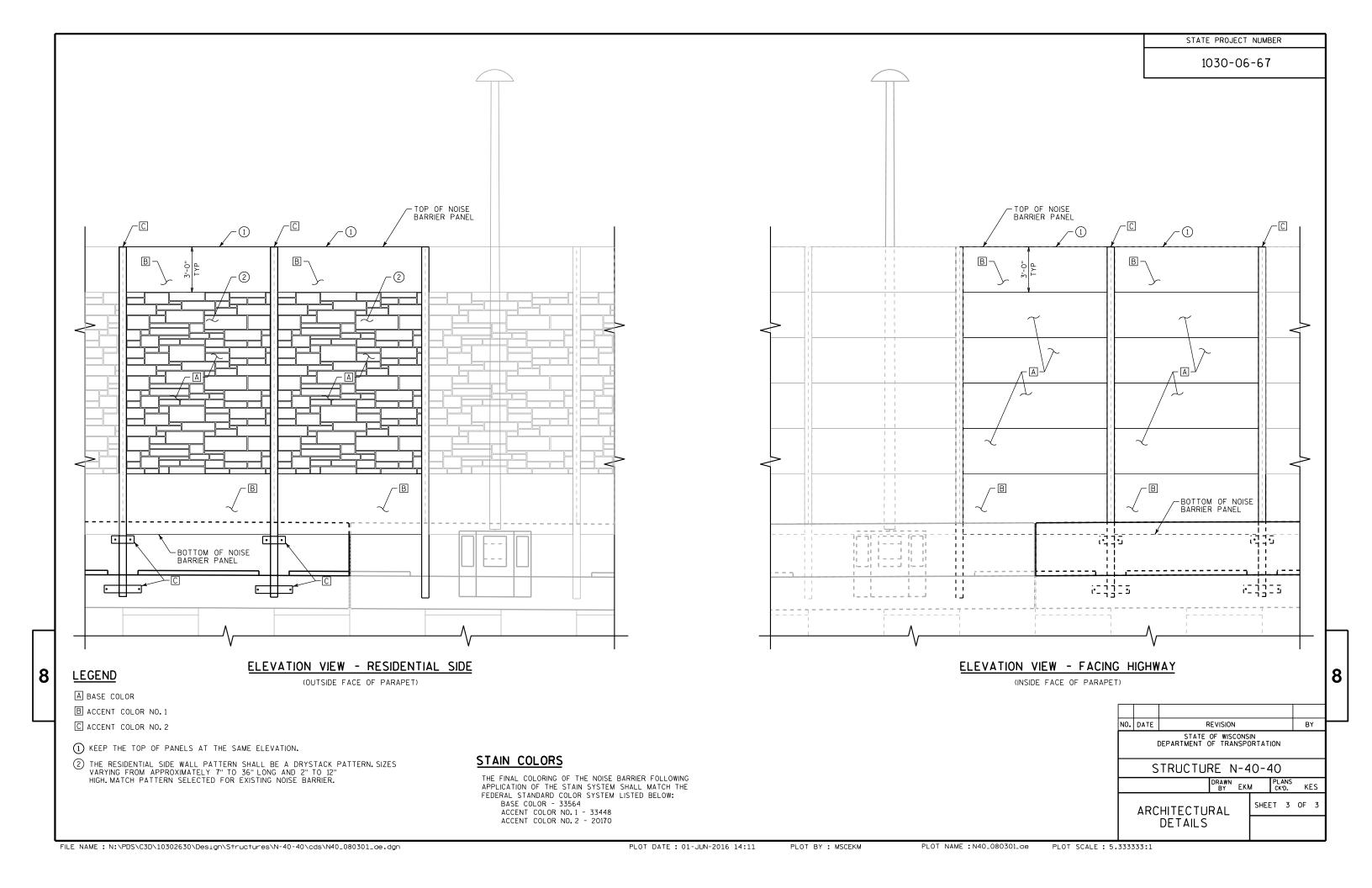
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS DESIGNED DESIGN EKM CK'D. PLANS EKM CK'D.

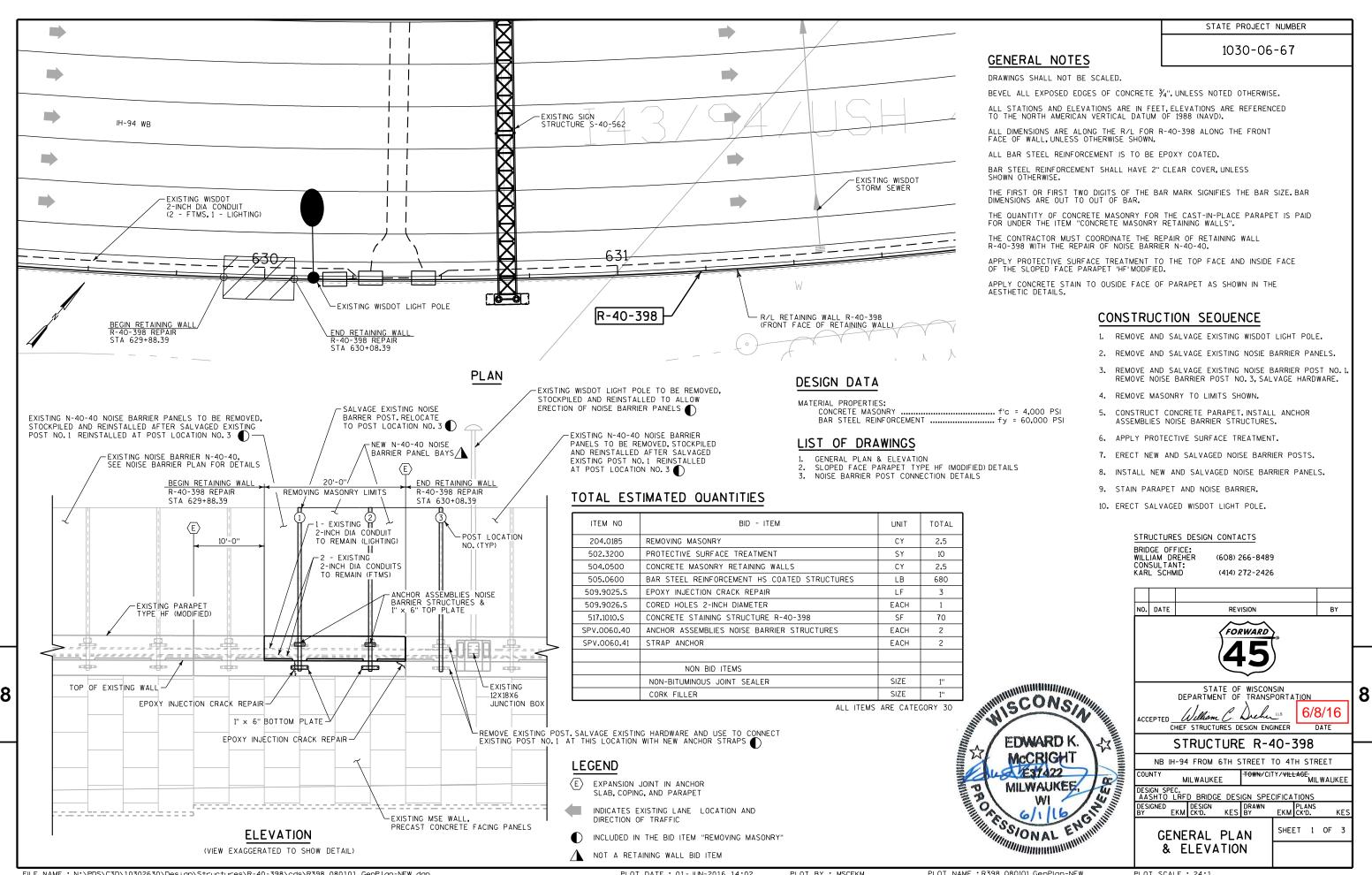
ELEVATION. GENERAL NOTES & QUANTITIES

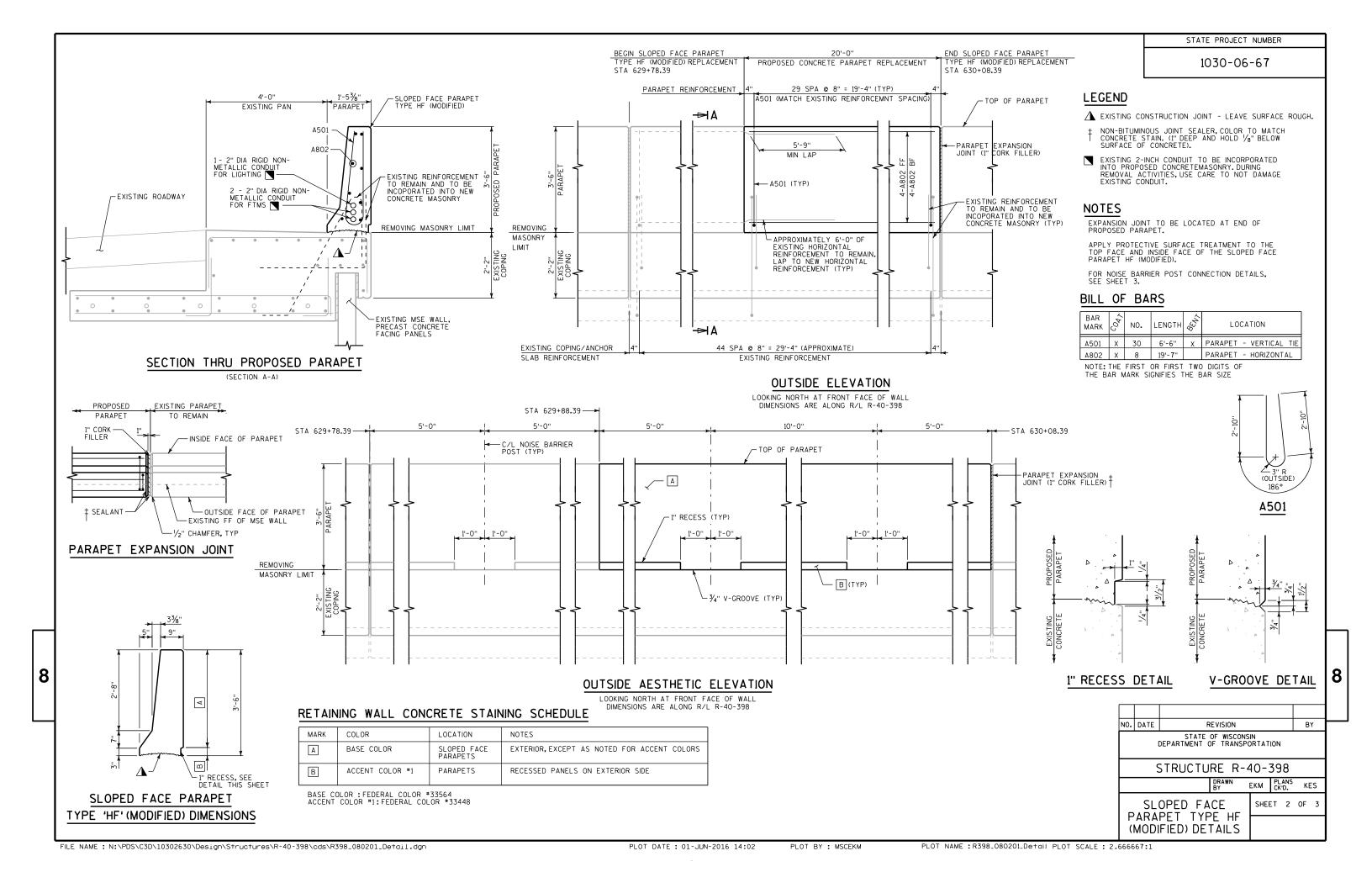
SHEET 1 OF 3

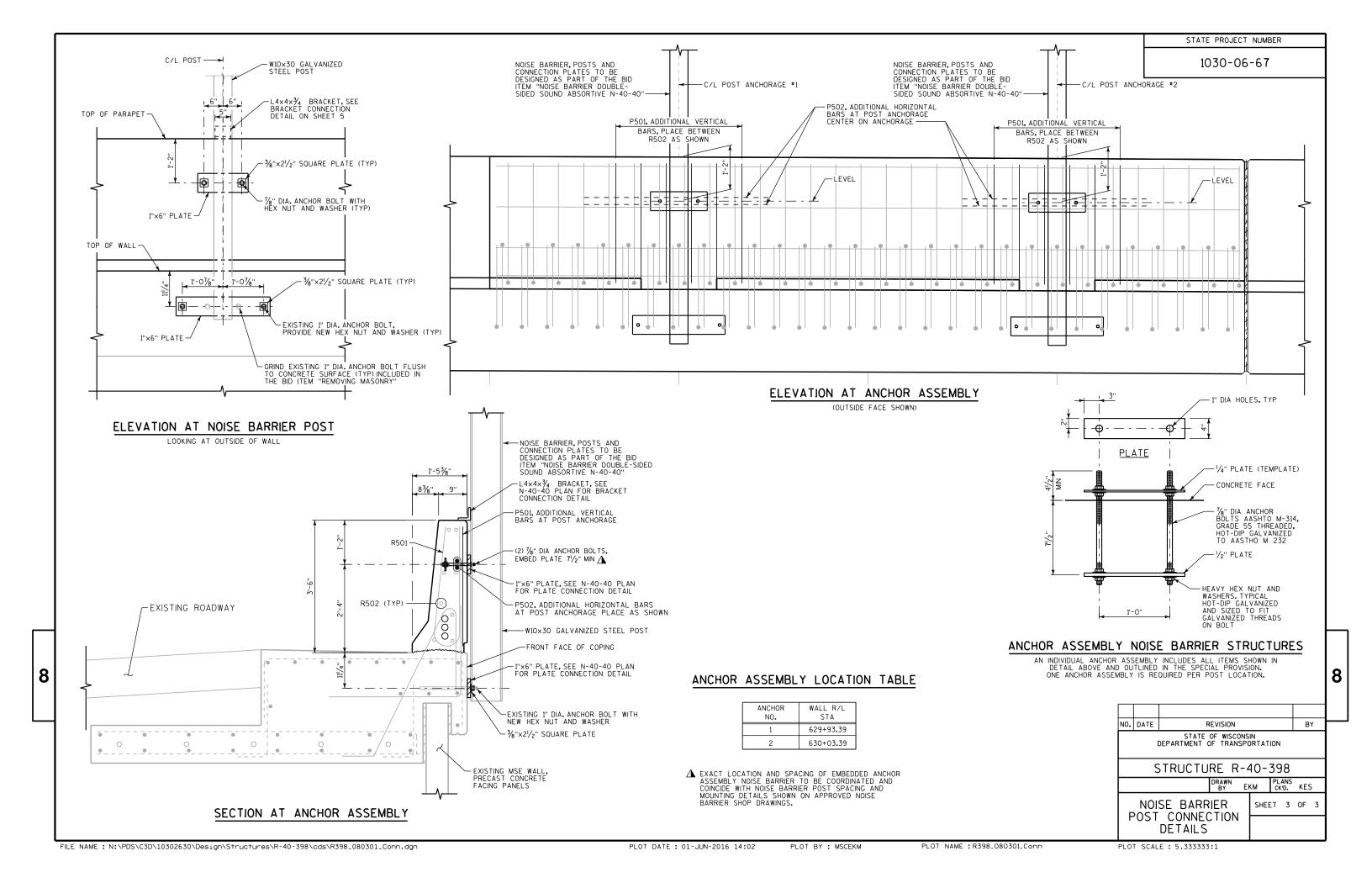
CONSINHIM WISCONSIN E37422 MILWAUKEE. TO GALLEN 155/ONAL ENGINE













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