

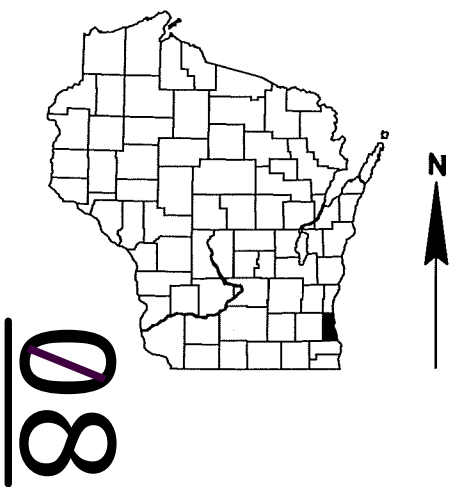
WKE
PROJECT ID: 1060-34-88
WITH: N/A

COUNTY: MILWAUKEE

AUGUST 2017
ORDER OF SHEETS

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

TOTAL SHEETS = 46

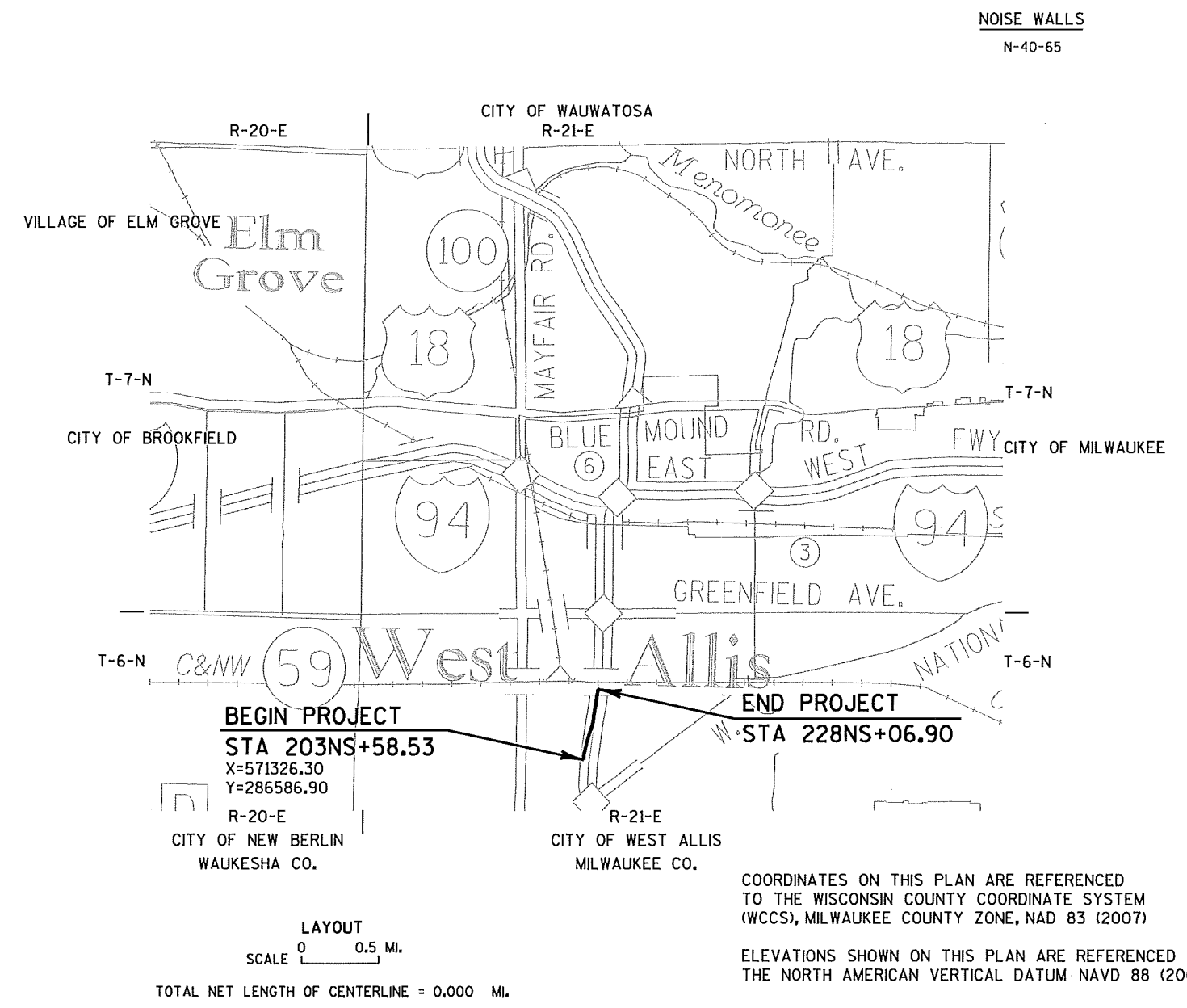


CONVENTIONAL SYMBOLS	
PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
SURVEY CONTROL POINT	
COMBUSTIBLE FLUIDS	
HIGH VOLTAGE	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
OVERHEAD ELECTRIC	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	
TRANSMISSION TOWER	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
ZOO IC, IH 894 SB NOISE WALL
UPRR BRIDGE TO LINCOLN AVENUE
IH 894
MILWAUKEE COUNTY
STATE PROJECT NUMBER
1060-34-88

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1060-34-88		



COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MILWAUKEE COUNTY ZONE, NAD 83 (2007)
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007)

ORIGINAL PLANS PREPARED BY
MILWAUKEE, WISCONSIN

4/13/17 (Date)
Julie A. Ferguson (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	FORWARD 45
Designer	FORWARD 45
Project Manager	JOSH LEVEQUE, P.E.
Regional Examiner	
Regional Supervisor	WILLIAM S. MOHR, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 4/13/17 (Date)
Julie A. Ferguson (Signature)

E

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OTHER AGENCIES

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mlewis@westalliswi.gov

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND
FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK
DAYS NOTICE BEFORE YOU EXCAVATE.



GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE 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.

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

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED.

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

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

FERTILIZER SHALL NOT BE USED WITHIN 100' OF NAVIGABLE WATERWAYS OR WETLANDS.

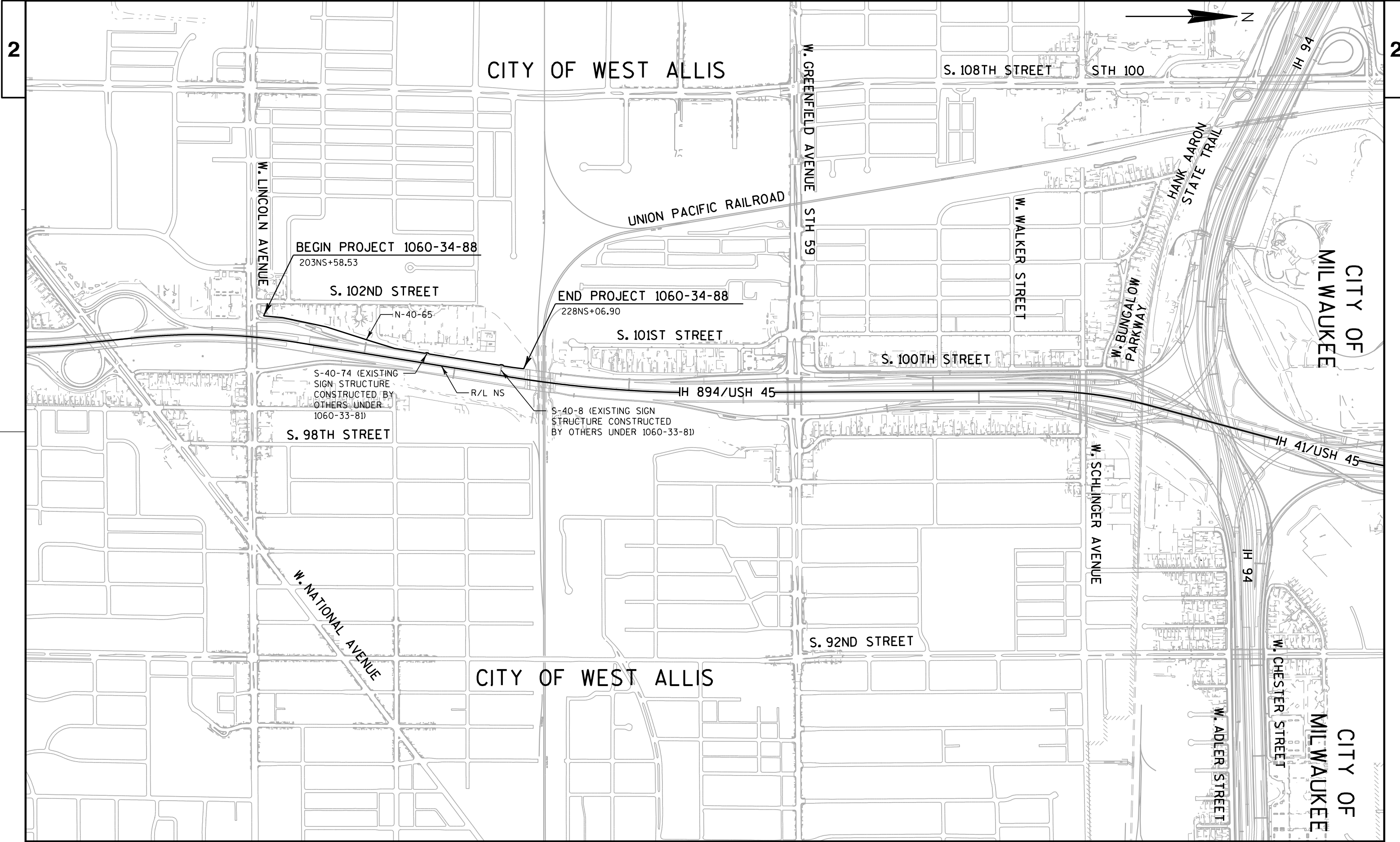
TRAFFIC CONTROL DEVICES TO BE PLACED UNDER CONTRACT 1060-33-81. COORDINATE WITH CONTRACTOR FOR 1060-33-81 FOR ACCESS TO WORK ZONE.

ORDER OF SECTION 2 DETAIL SHEETS

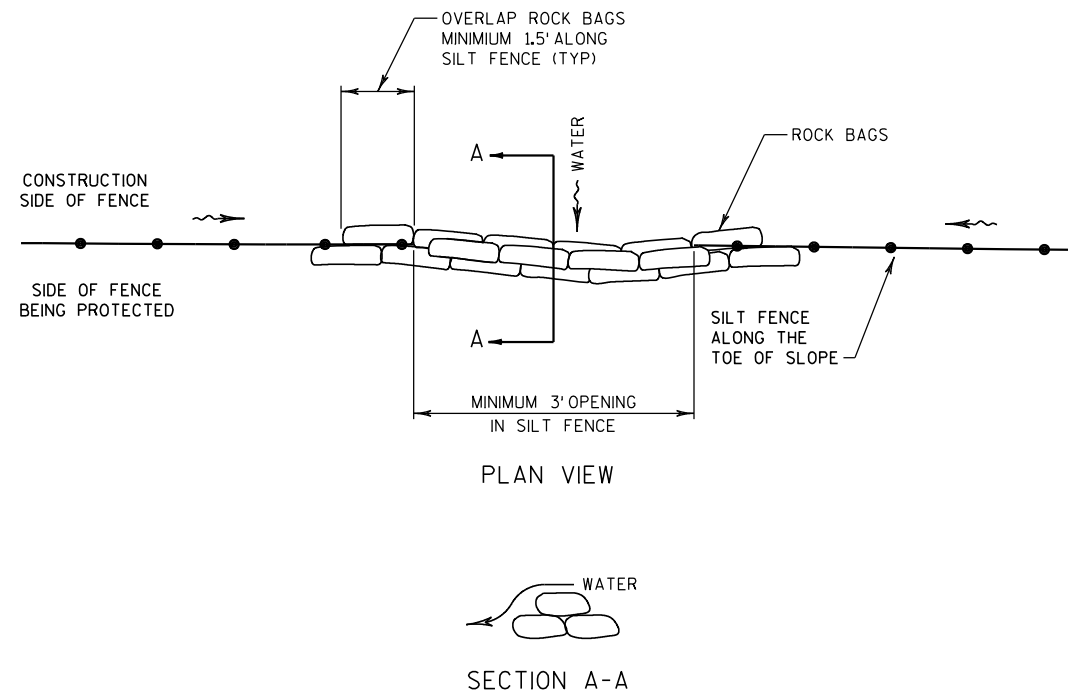
- GENERAL NOTES
- PROJECT OVERVIEW
- CONSTRUCTION DETAILS
- REMOVAL PLANS
- EROSION CONTROL
- EXISTING UTILITY PLANS
- PERMANENT SIGNING
- EXISTING TRAFFIC CONTROL
- FENCING
- ALIGNMENT LAYOUT

STANDARD ABBREVIATIONS

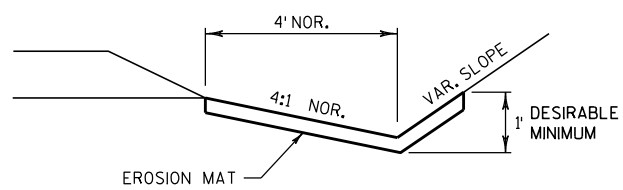
AEW	APRON END WALL
AGG	AGGREGATE
ASPH	ASPHALTIC
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CMCP	CULVERT PIPE CORRUGATED METAL
CONC	CONCRETE
CP	CULVERT PIPE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
EB	EASTBOUND
ENB	EXISTING NOISE BARRIER
FE	FIELD ENTRANCE
FL	FLOW LINE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LP	LOW POINT
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PGL	PROFILE GRADE LINE
PLE	PERMANENT LIMITED EASEMENT
PNB	PROPOSED NOISE BARRIER
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RRSP	RAILROAD SPIKE
RT	RIGHT
SALV	SALVAGED
SAPBC	SALVAGED ASPHALTIC PAVEMENT BASE COARSE
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WB	WESTBOUND



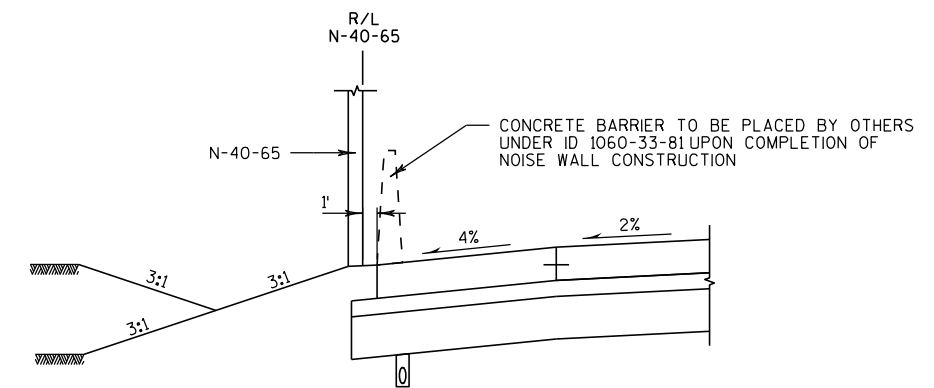
PROJECT NO: 1060-34-88	HWY: IH 894	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET	E
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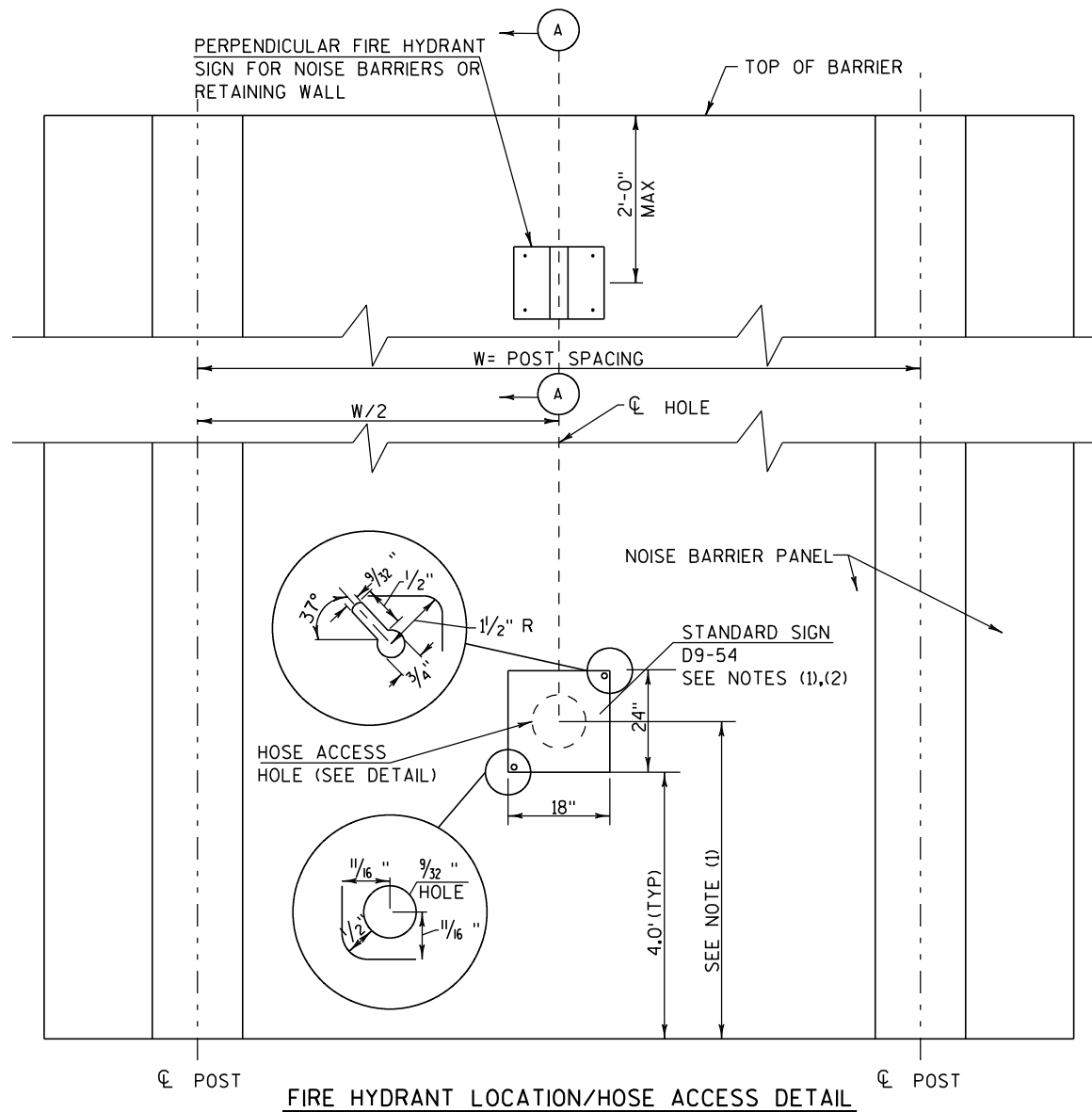
SILT FENCE DRAINAGE OUTLET, ROCK BAGS



EROSION MAT DETAIL FOR DITCHES



EXISTING ROADWAY ADJACENT TO NOISE WALL

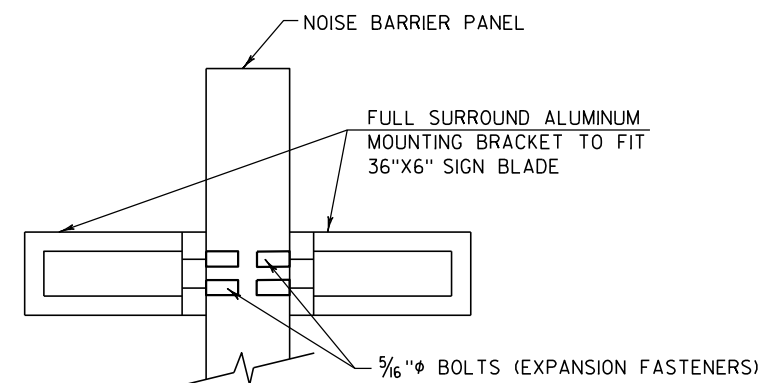


NOTES:

1. STANDARD SIGNS D9-54 SHALL 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:

EXPANSION FASTENERS FOR SIGN (D9-54) SIGN ARE INCIDENTAL TO SIGN.

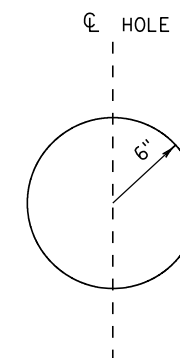


SECTION A-A

PERPENDICULAR FIRE HYDRANT
SIGN FOR NOISE BARRIER OR RETAINING WALL

NOTE:

MOUNTING BOLTS, BRACKETS, ARE INCIDENTAL TO SIGN



HOSE ACCESS HOLE DETAIL

NOTE:

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

[illegible]

PROJECT NO: 1060-34-88

HWY: IH 894

COUNTY:MILWAUKEE

REMOVAL PLANS	
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SHEET

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FILE NAME : W:\Cadd\Final\10603488-NW\Roads\cbs\021101.rm.dgn PLOT DATE : 12-APR-2017 21:42 PLOT BY : msedyb PLOT NAME : 021101.rm PLOT SCALE : 100:1

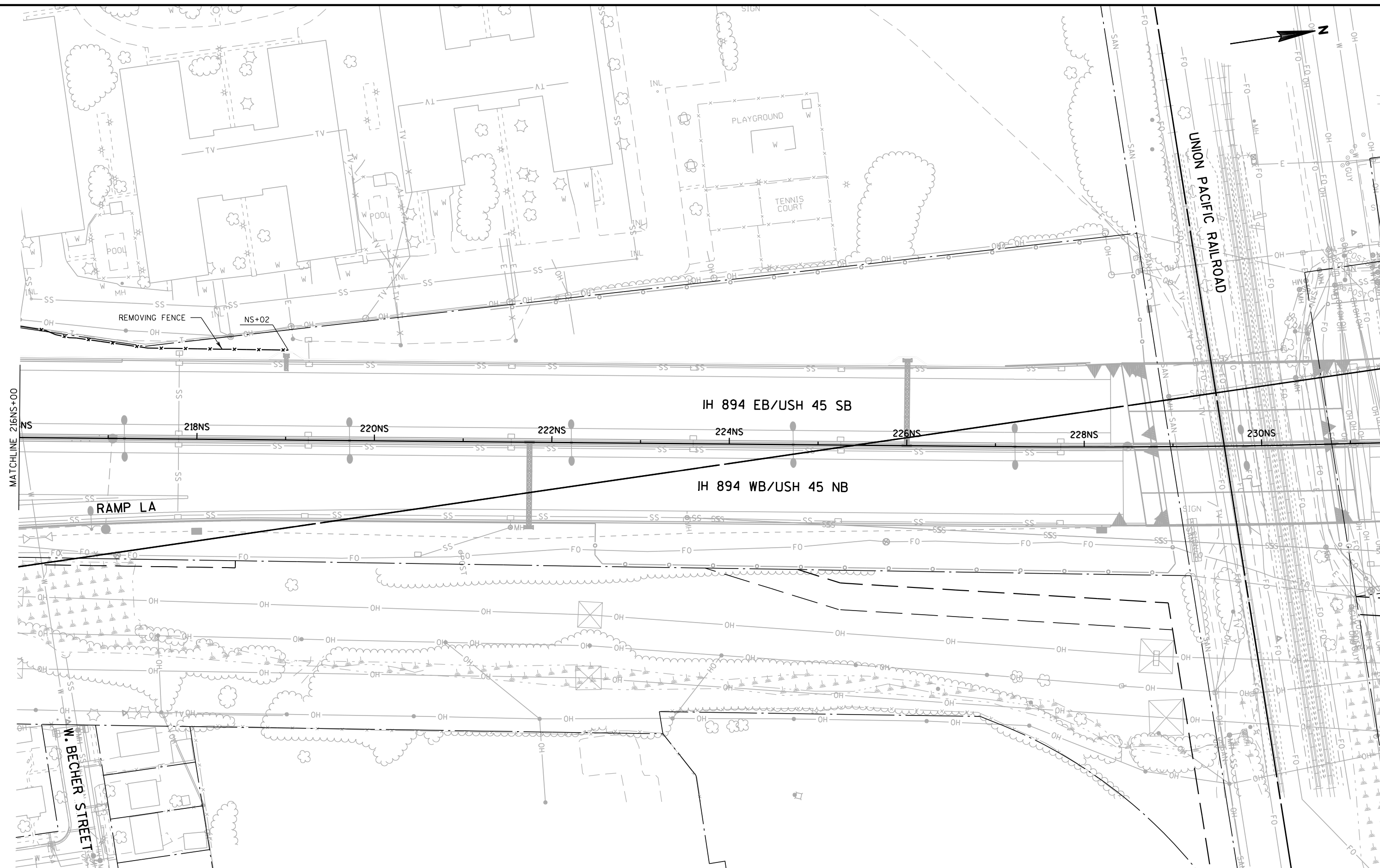
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PLOT BY : mscdyb PLOT NAME : 021101_rm

PLOT NAME : 021101_rm PLOT SCALE : 100:1

PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42



PROJECT NO:1060-34-88

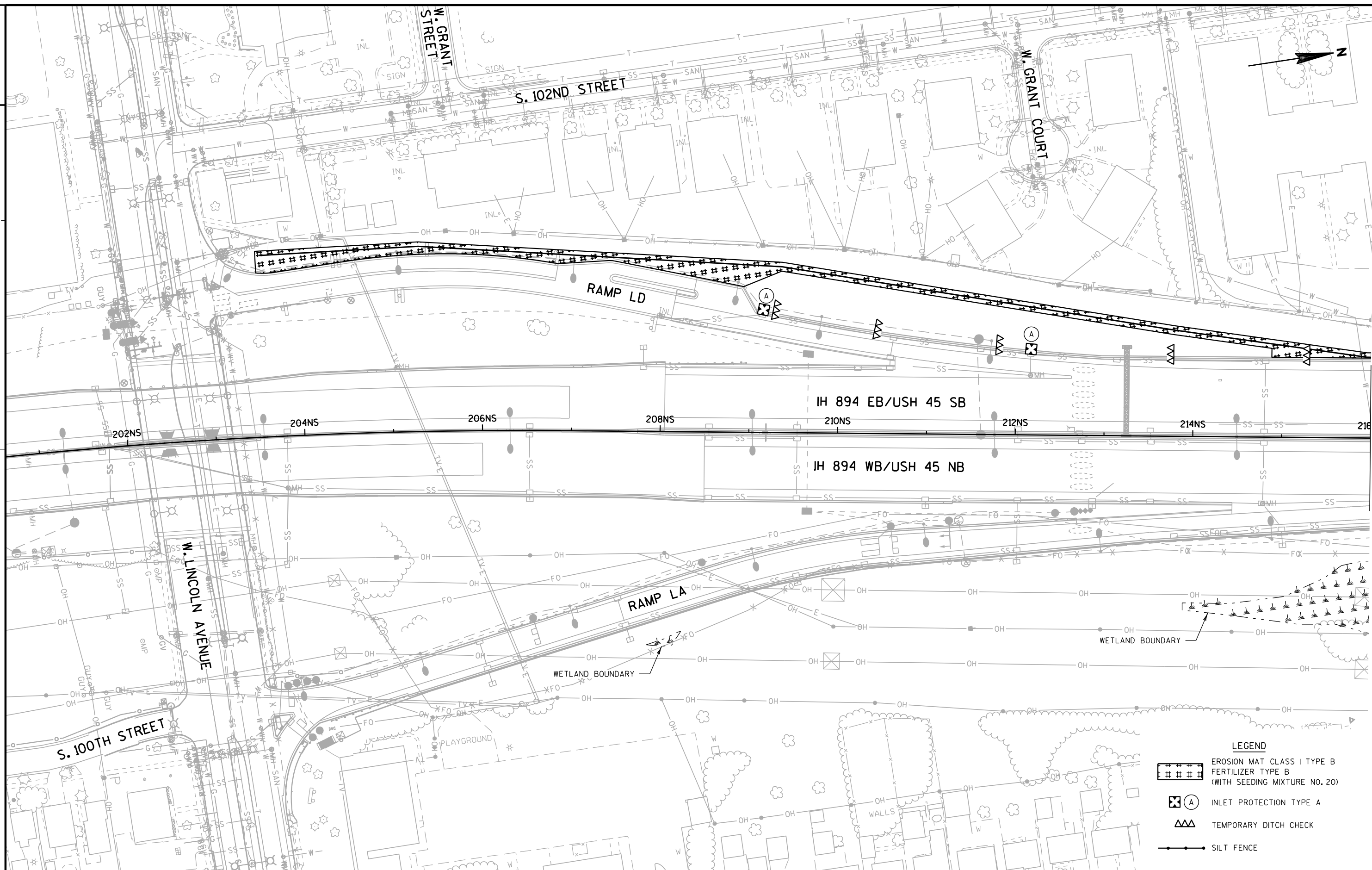
HWY: IH 894

COUNTY: MILWAUKEE

REMOVAL PLANS

SHEET

E



PROJECT NO:1060-34-88

HWY: IH 894

COUNTY: MILWAUKEE

EROSION CONTROL

SHEET

E

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PLOT BY : mscdyb

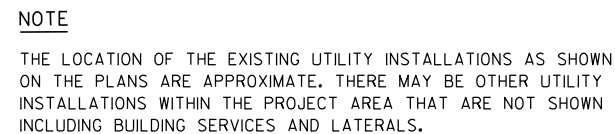
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PLOT SCALE : 100:1

WISDOT/CADDs SHEET 42

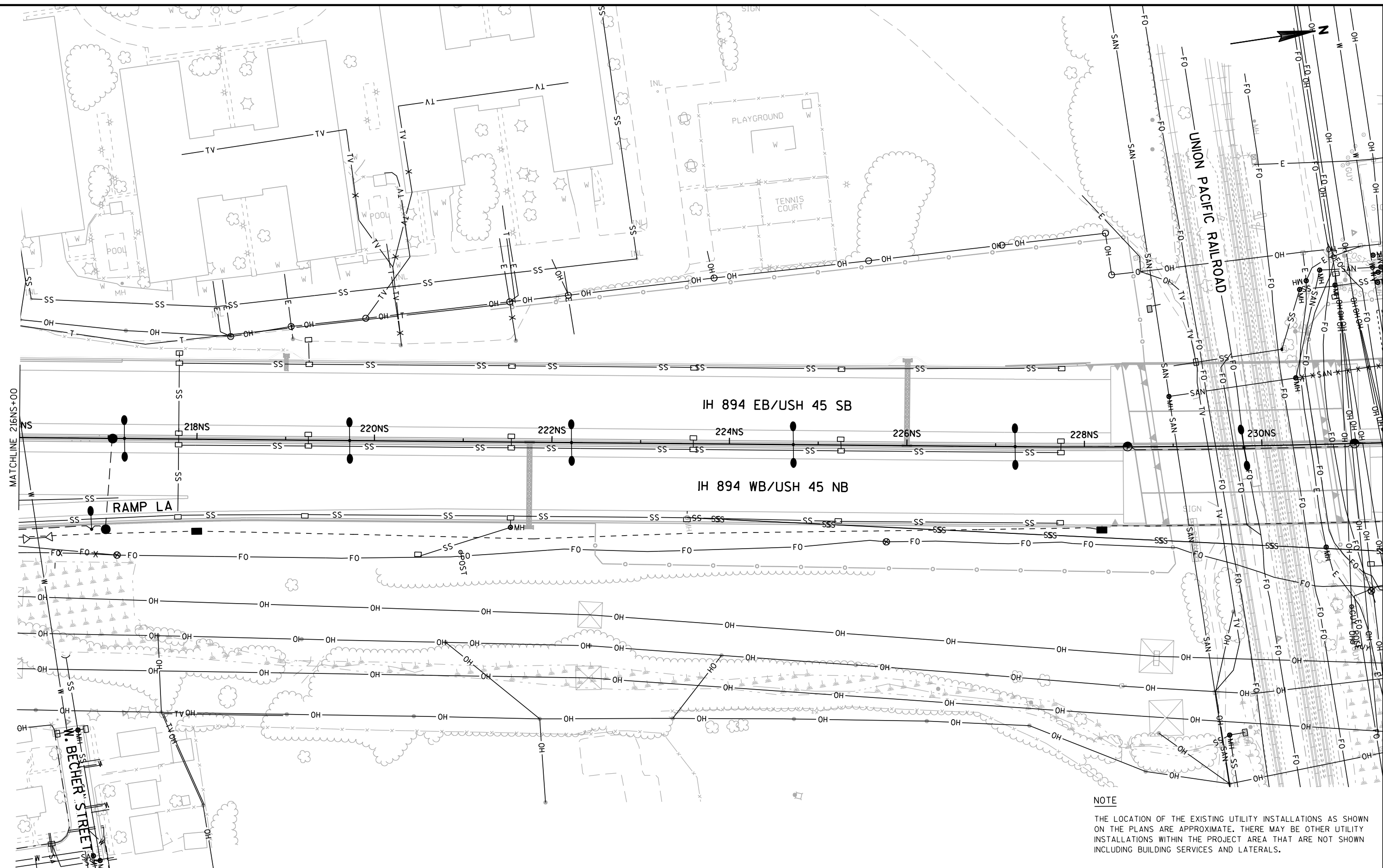
2





2

2



NOTE

THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN INCLUDING BUILDING SERVICES AND LATERALS.

LEGEND

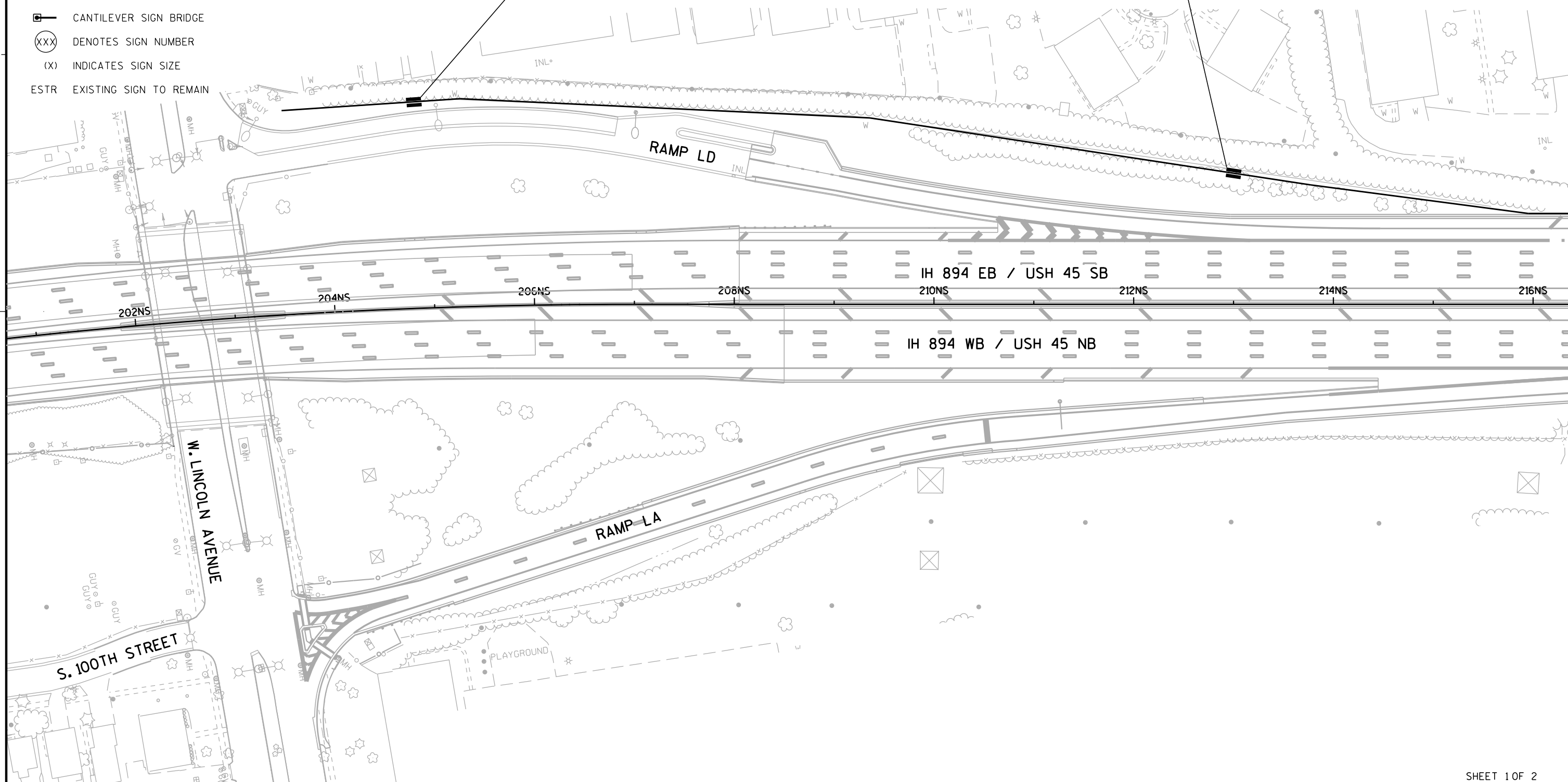
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-  PROPOSED SIGN MOUNTED ON POST(S)
-  PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
-  VARIABLE MESSAGE SIGN
-  EXISTING LIGHT OR SIGNAL POLE
-  SIGN BRIDGE
-  CANTILEVER SIGN BRIDGE
-  DENOTES SIGN NUMBER
-  INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

 1 1A
BLANK IDENTIFIER
BLADES
SEE DETAIL

 2 2A
D9-54 (2S)
S. 102nd ST. @
W. GRANT ST.
ON WALL

 3 3A
BLANK IDENTIFIER
BLADES
(SEE DETAIL)

 4 4A
D9-54 (2S)
10119 W.
GRANT CT.
ON WALL



SHEET 1 OF 2

PROJECT NO: 1060-34-88

HWY: IH 894

COUNTY: MILWAUKEE

PERMANENT SIGNING

SHEET

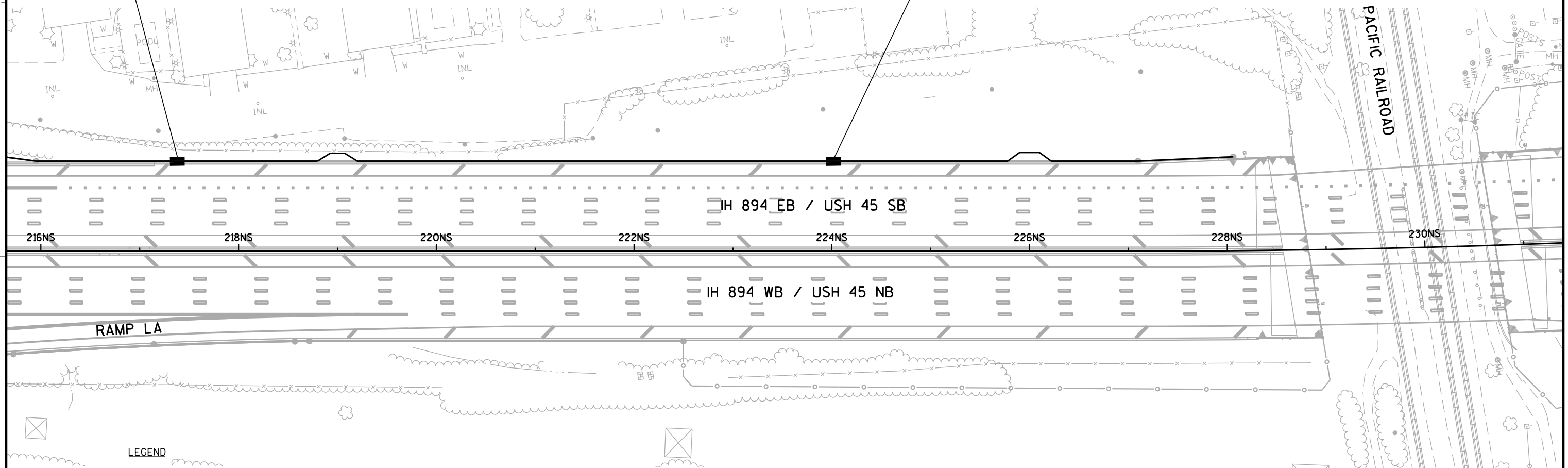
E

5A 5 
BLANK IDENTIFIER
BLADES
(SEE DETAIL)

6A 6 
D9-54 (2S)
2054 S. 102nd ST.
ON WALL

7A 7 
BLANK IDENTIFIER
BLADES
(SEE DETAIL)

8A 8 
D9-54 (2S)
W. ROGERS ST.
@ S. 102nd ST.
ON WALL



LEGEND

-  EXISTING SIGN MOUNTED ON POST(S)
-  EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
-  PROPOSED SIGN MOUNTED ON POST(S)
-  PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
-  VARIABLE MESSAGE SIGN
-  EXISTING LIGHT OR SIGNAL POLE
-  SIGN BRIDGE
-  CANTILEVER SIGN BRIDGE
-  DENOTES SIGN NUMBER
-  INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 2 OF 2

PROJECT NO:1060-34-88

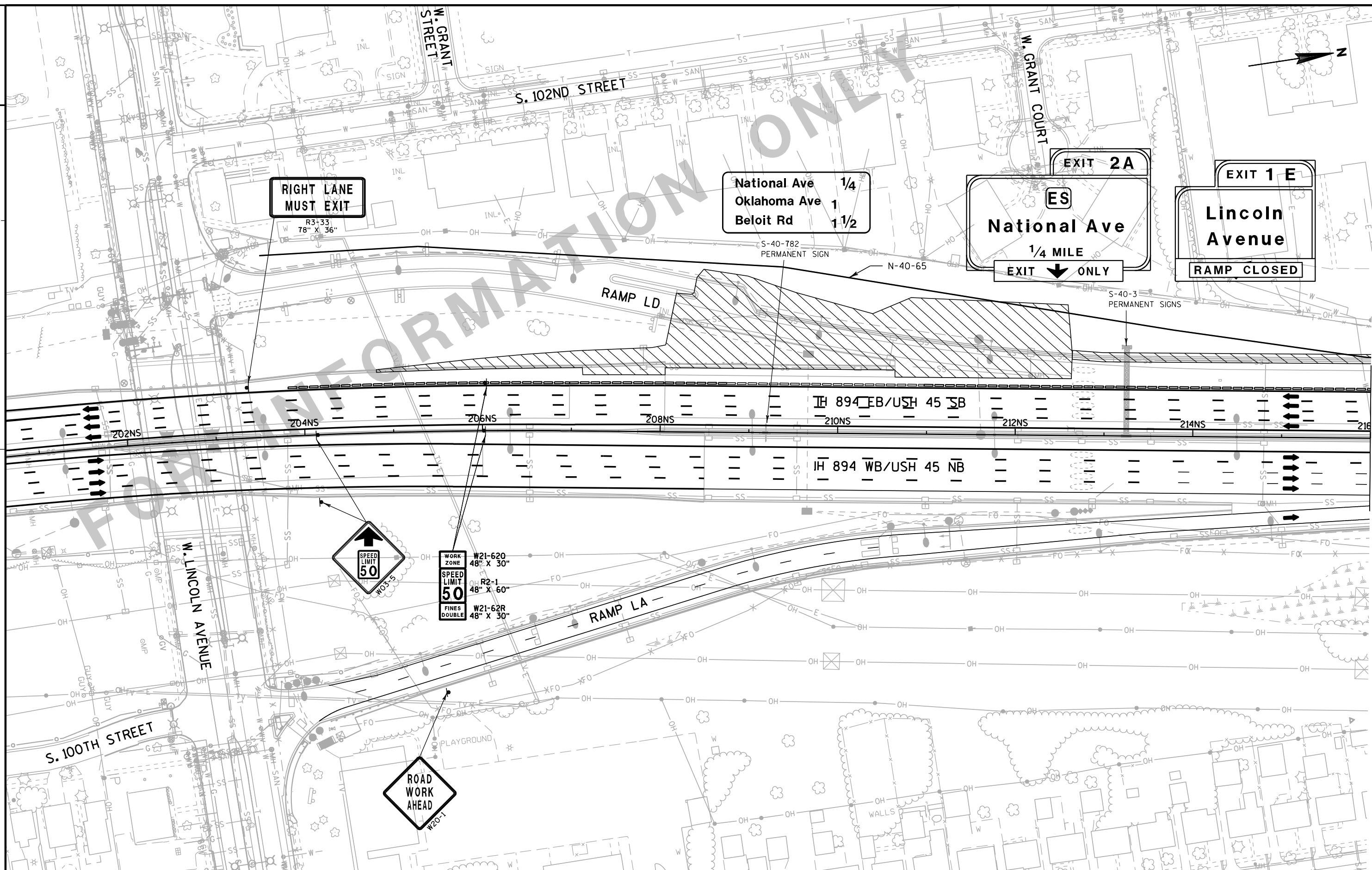
HWY: IH 894

COUNTY: MILWAUKEE

PERMANENT SIGNING

SHEET

E



PROJECT NO: 1060-34-88

HWY: IH 894

COUNTY: MILWAUKEE

EXISTING TRAFFIC CONTROL

SHEET

E

FILE NAME : W:\Cadd\Final\10603488_NW\Roads\cds\025101-1.dgn

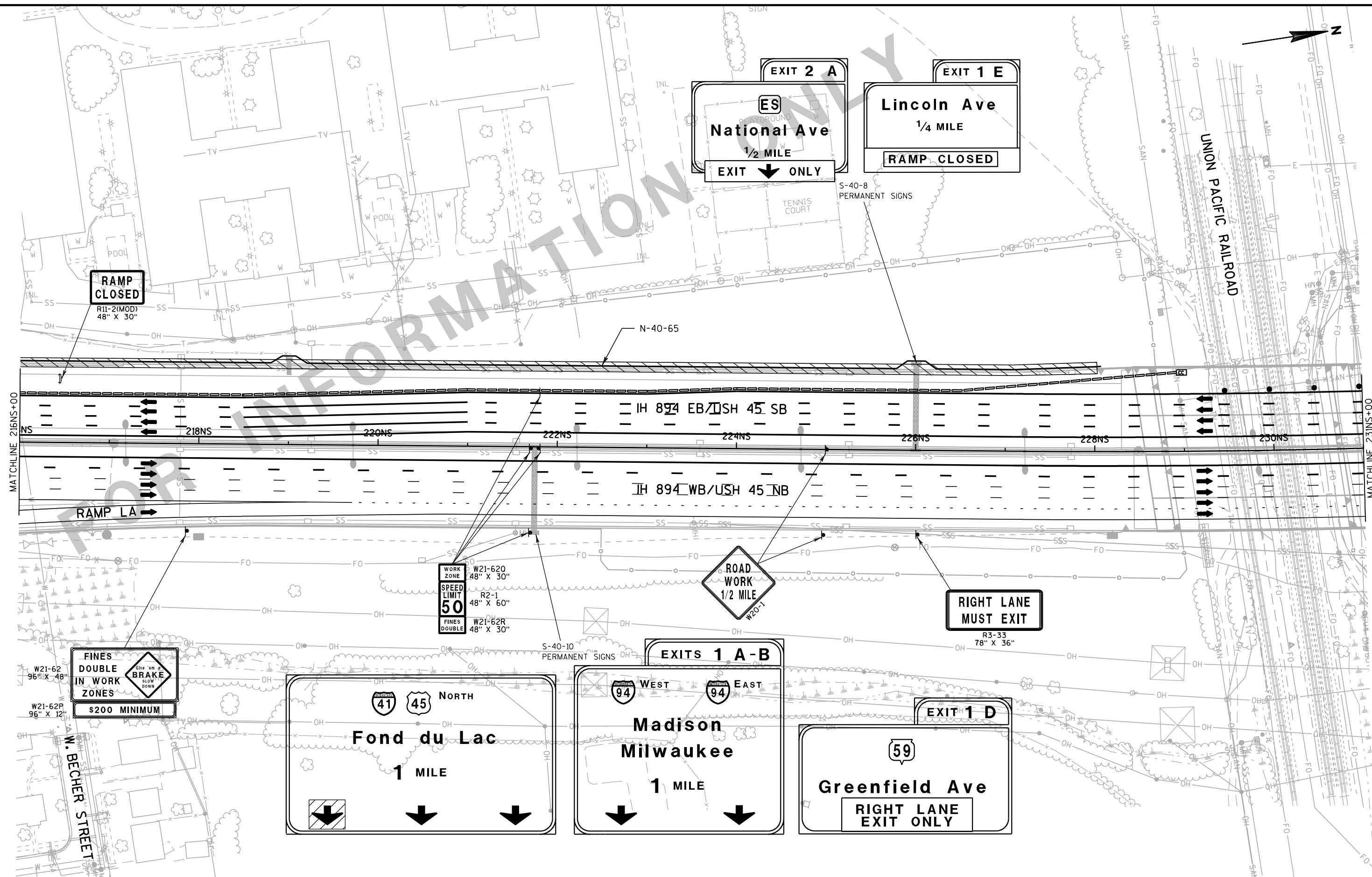
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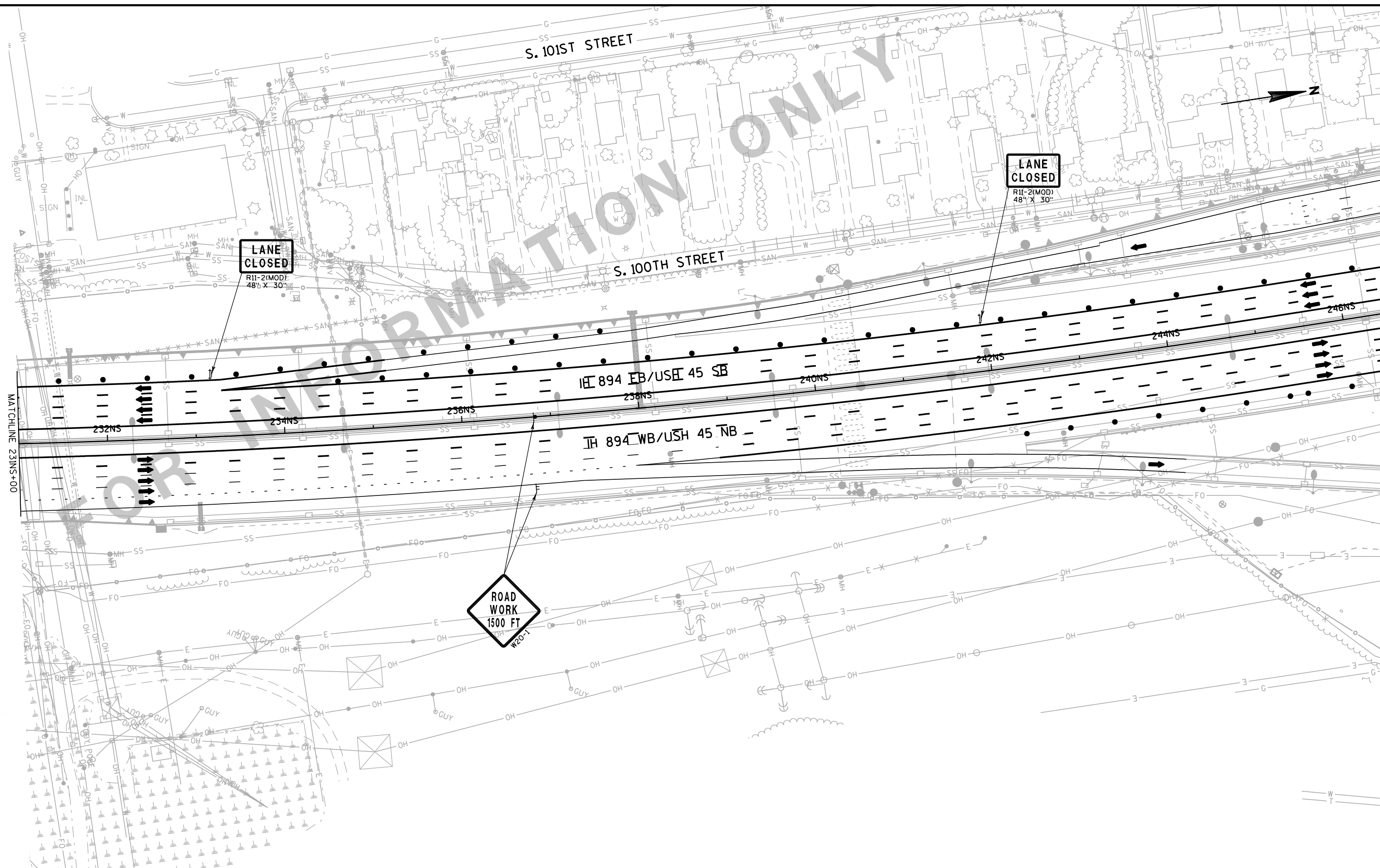
PLOT BY : mscdyb

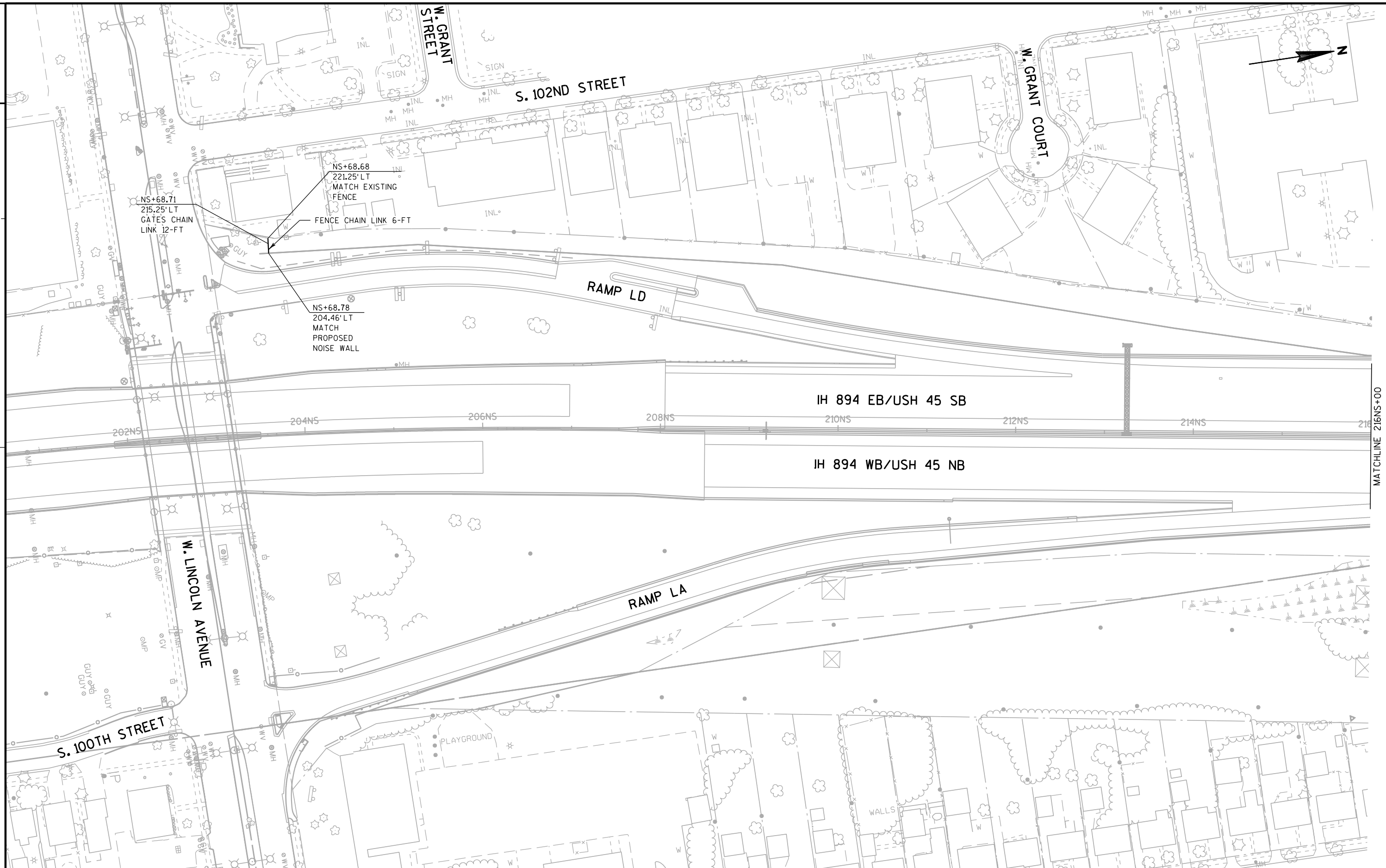
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PLOT SCALE : 100:1

WISDOT/CADDs SHEET 42







PROJECT NO:1060-34-88

HWY: IH 894

COUNTY: MILWAUKEE

FENCING

SHEET

E

FILE NAME : W:\Cadd\Final\10603488_NW\Roads\cads\027101_fn.dgn

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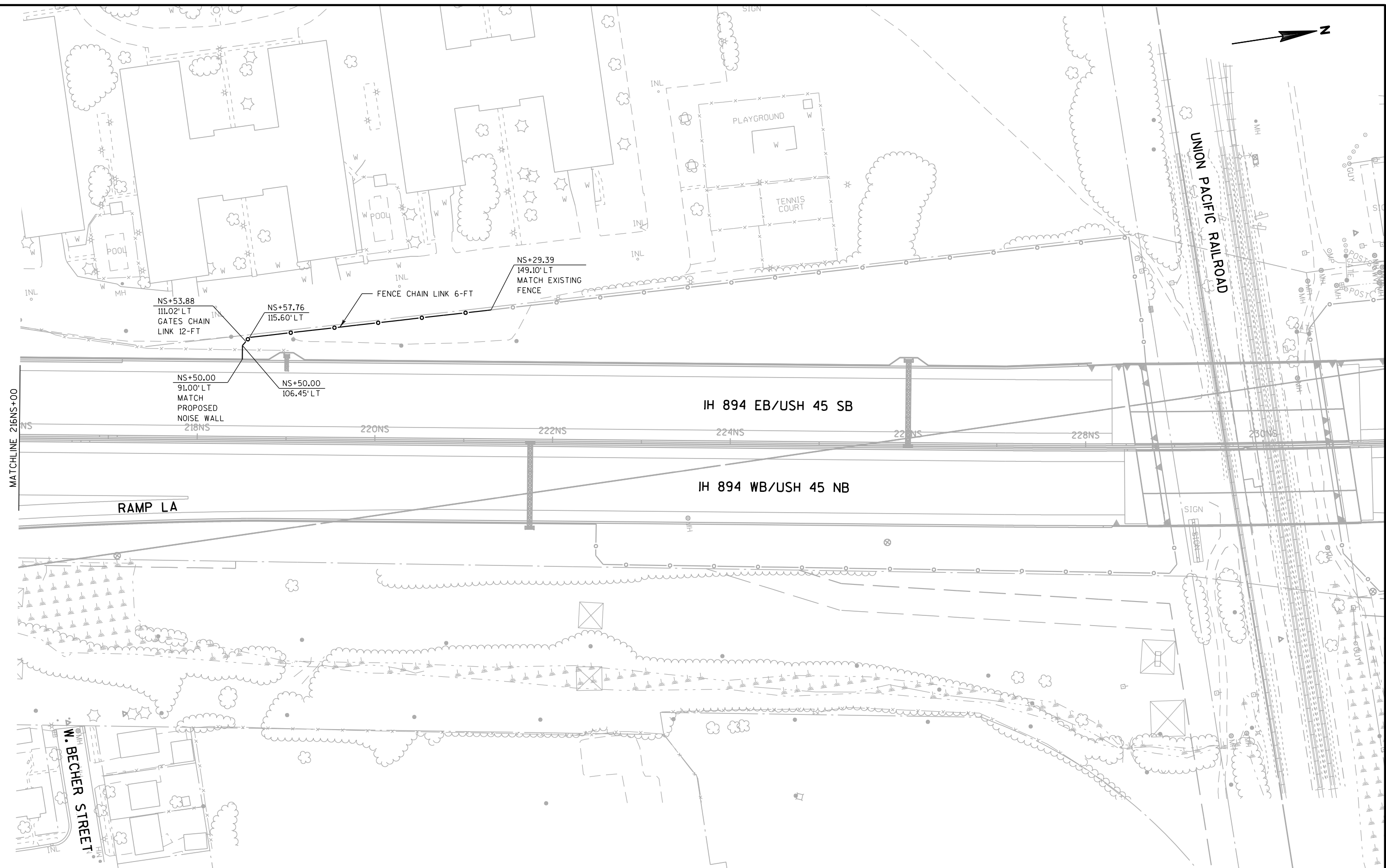
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PLOT SCALE : 100:1

WISDOT/CADDs SHEET 42

2

2



PROJECT NO:1060-34-88

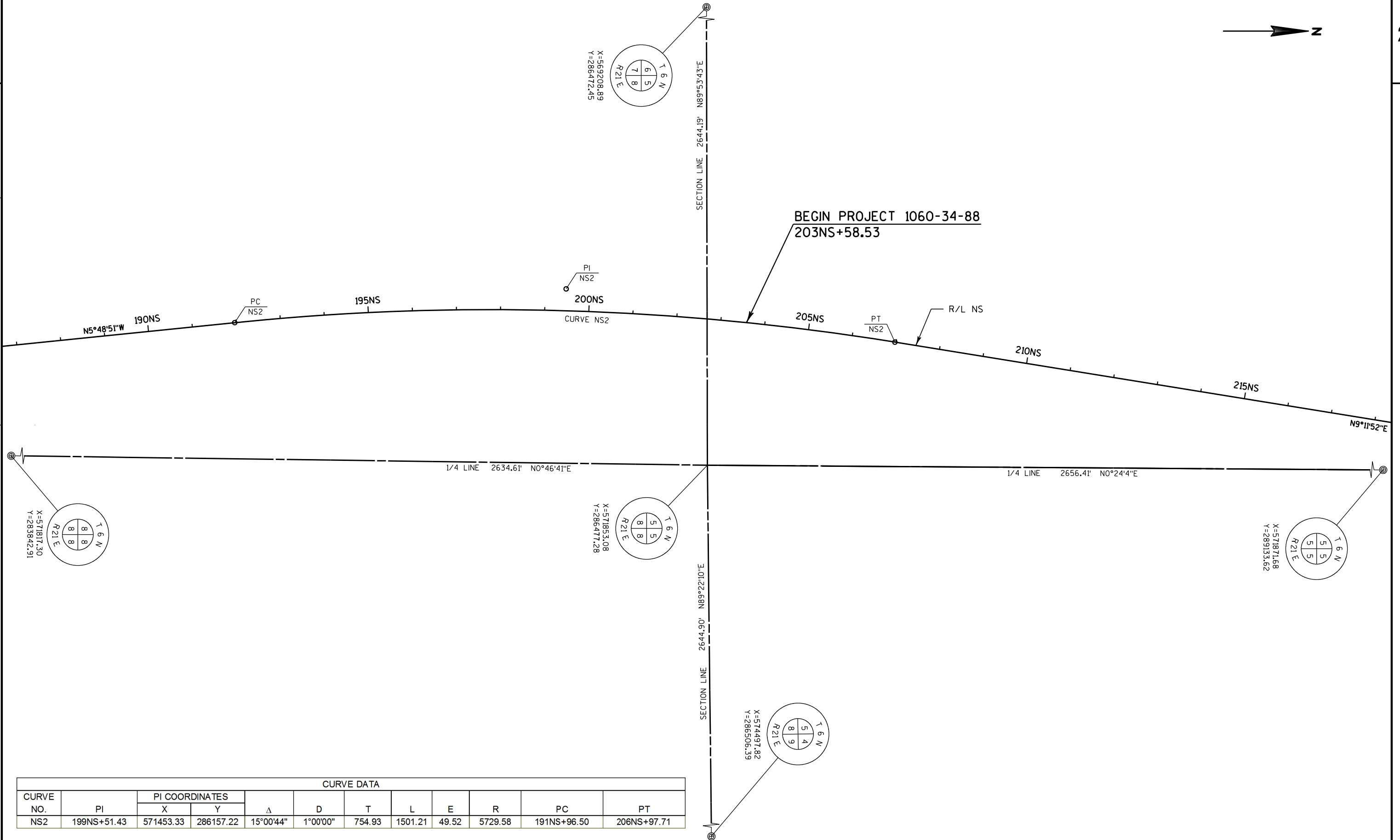
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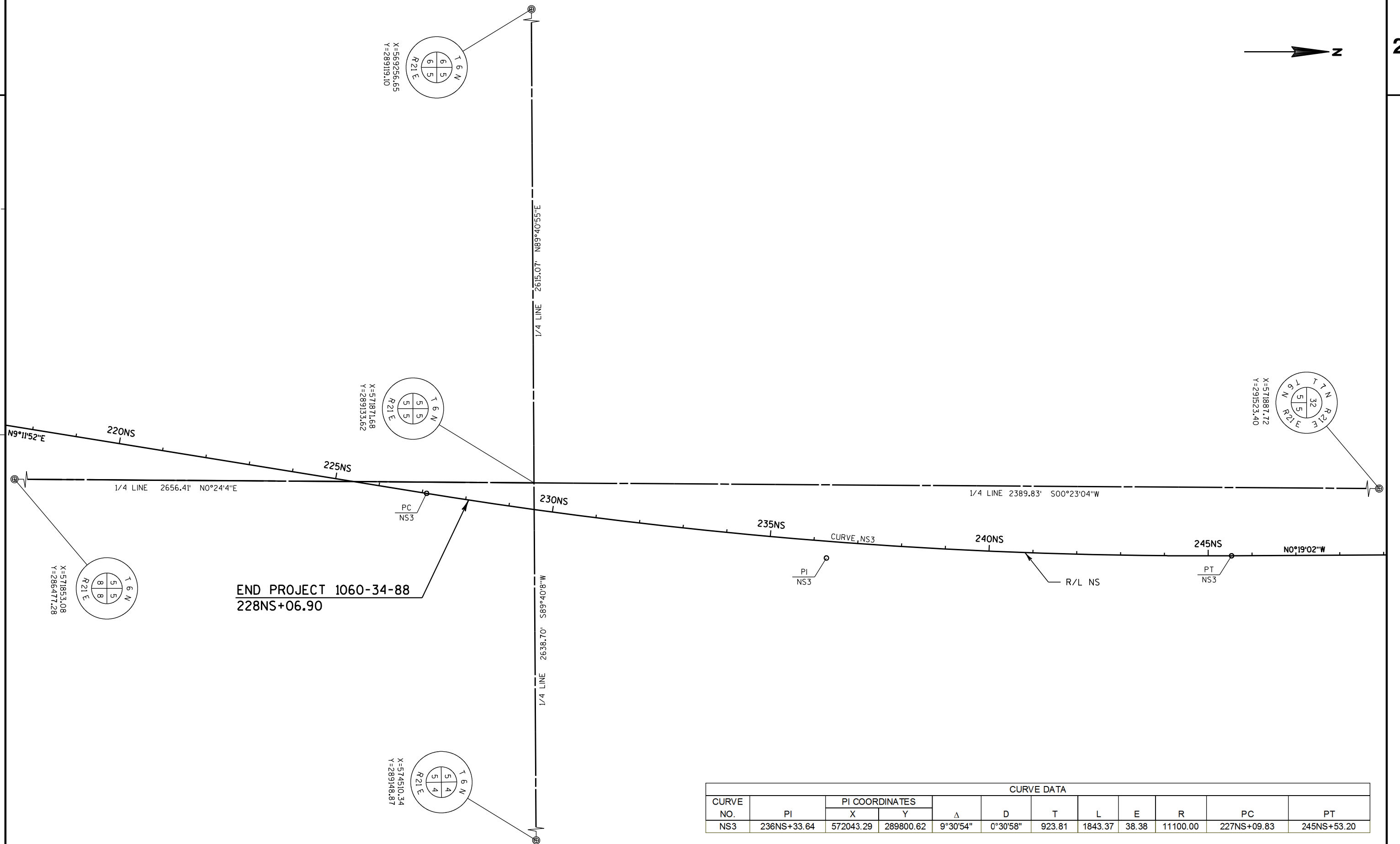
COUNTY: MILWAUKEE

FENCING

SHEET

E





PROJECT NO:1060-34-88

HWY: IH 894

COUNTY: MILWAUKEE

ALIGNMENT LAYOUT

SHEET

E

Estimate Of Quantities

1060-34-88					
Line	Item	Item Description	Unit	Total	Qty
0010	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0020	204.0170	Removing Fence	LF	1,120.000	1,120.000
0030	213.0100	Finishing Roadway (project) 0001. 1060-34-88	EACH	1.000	1.000
0040	531.0300.S	Noise Barriers Double-Sided Sound Absorptive (structure) 0001. N-40-65	SF	53,860.000	53,860.000
0050	616.0206	Fence Chain Link 6-FT	LF	294.000	294.000
0060	616.0329	Gates Chain Link (width) 0001. 12-FT	EACH	2.000	2.000
0070	619.1000	Mobilization	EACH	1.000	1.000
0080	628.1504	Silt Fence	LF	1,352.000	1,352.000
0090	628.1520	Silt Fence Maintenance	LF	1,352.000	1,352.000
0100	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0110	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0120	628.2004	Erosion Mat Class I Type B	SY	3,415.000	3,415.000
0130	628.7005	Inlet Protection Type A	EACH	5.000	5.000
0140	628.7504	Temporary Ditch Checks	LF	105.000	105.000
0150	628.7560	Tracking Pads	EACH	1.000	1.000
0160	628.7570	Rock Bags	EACH	50.000	50.000
0170	629.0210	Fertilizer Type B	CWT	2.200	2.200
0180	630.0120	Seeding Mixture No. 20	LB	93.000	93.000
0190	630.0200	Seeding Temporary	LB	47.000	47.000
0200	637.2210	Signs Type II Reflective H	SF	36.000	36.000
0210	SPV.0075	Special 0001. Pavement Cleanup Project 1060-34-88	HRS	25.000	25.000
0220	SPV.0105	Special 0001. Survey Project 1060-34-88	LS	1.000	1.000
0230	SPV.0180	Special 0200. Topsoil Special	SY	3,415.000	3,415.000

3

CPM PROGRESS SCHEDULE 108.4400 CPM PROGRESS SCHEDULE EACH <table><tr><th>CATEGORY</th><th>LOCATION</th><th></th></tr><tr><td>1000</td><td>PROJECT</td><td>1</td></tr><tr><td colspan="2">TOTAL</td><td>1</td></tr></table>			CATEGORY	LOCATION		1000	PROJECT	1	TOTAL		1	REMOVING FENCE 204.0170 REMOVING FENCE LF <table><tr><th>CATEGORY</th><th>LOCATION</th><th>FROM STATION</th><th>OFFSET</th><th>TO STATION</th><th>OFFSET</th><th></th></tr><tr><td>1000</td><td>IH 894/USH 45 SB</td><td>207NS+91</td><td>214' LT</td><td>219NS+02</td><td>101' LT</td><td>1,120</td></tr><tr><td colspan="6">TOTAL</td><td>1,120</td></tr></table>							CATEGORY	LOCATION	FROM STATION	OFFSET	TO STATION	OFFSET		1000	IH 894/USH 45 SB	207NS+91	214' LT	219NS+02	101' LT	1,120	TOTAL						1,120	FINISHING ROADWAY 213.0100.0001 FINISHING ROADWAY PROJECT 1060-34-88 EACH <table><tr><td>1000</td><td>PROJECT</td><td>1</td></tr><tr><td colspan="2">TOTAL</td><td>1</td></tr></table>			1000	PROJECT	1	TOTAL		1	MOBILIZATION 619.1000 MOBILIZATION EACH <table><tr><td>1000</td><td>PROJECT</td><td>1</td></tr><tr><td colspan="2">TOTAL</td><td>1</td></tr></table>			1000	PROJECT	1	TOTAL		1
CATEGORY	LOCATION																																																								
1000	PROJECT	1																																																							
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3

FENCING ITEMS						
CATEGORY	LOCATION	STATION	TO	STATION	616.0206 FENCE CHAIN LINK 6-FT LF	616.0329.0001 GATES CHAIN LINK 12-FT EACH
1000	<u>IH 894/USH 45 SB</u>					
		203NS+69	-	203NS+69	5	1
		218NS+50	-	221NS+29	289	1
TOTALS					294	2

EROSION CONTROL ITEMS														
CATEGORY	LOCATION	STATION	TO	STATION	OFFSET	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7560 TRACKING PADS EACH	628.7570 ROCK BAGS EACH
1000	<u>IH 894/USH 45 SB</u>													
				203NS+54	- 228NS+61 LT	1,081	1,081	--	--	2,732	4	84	--	--
	<u>UNDISTRIBUTED</u>					271	271	1	1	683	1	21	1	50
TOTALS						1,352	1,352	1	1	3,415	5	105	1	50

RESTORATION ITEMS 629.0210 630.0120 630.0200 SPV.0180.0200 SEEDING SEEDING TOPSOIL FERTILIZER MIXTURE SEEDING SPECIAL TYPE B NO. 20 TEMPORARY SY CWT LB LB <table><tr><th>CATEGORY</th><th>LOCATION</th><th>STATION</th><th>TO</th><th>STATION</th><th>OFFSET</th><th></th><th></th><th></th></tr><tr><td>1000</td><td>IH 894/USH 45 SB</td><td>203NS+54</td><td>-</td><td>228NS+61</td><td>LT</td><td>1.7</td><td>74</td><td>37</td></tr><tr><td colspan="6">UNDISTRIBUTED</td><td>.5</td><td>19</td><td>10</td></tr><tr><td colspan="6">TOTALS</td><td>2.2</td><td>93</td><td>47</td></tr></table>										CATEGORY	LOCATION	STATION	TO	STATION	OFFSET				1000	IH 894/USH 45 SB	203NS+54	-	228NS+61	LT	1.7	74	37	UNDISTRIBUTED						.5	19	10	TOTALS						2.2	93	47	PAVEMENT CLEANUP SPV.0075.0001 PAVEMENT CLEANUP PROJECT 1060-34-88 HRS <table><tr><td>1000</td><td>PROJECT</td><td>25</td></tr><tr><td colspan="2">TOTAL</td><td>25</td></tr></table>			1000	PROJECT	25	TOTAL		25	SURVEY PROJECT SPV.0105.0001 SURVEY PROJECT PROJECT 1060-34-88 LS <table><tr><td>1000</td><td>PROJECT</td><td>1</td></tr><tr><td colspan="2">TOTAL</td><td>1</td></tr></table>			1000	PROJECT	1	TOTAL		1
CATEGORY	LOCATION	STATION	TO	STATION	OFFSET																																																										
1000	IH 894/USH 45 SB	203NS+54	-	228NS+61	LT	1.7	74	37																																																							
UNDISTRIBUTED						.5	19	10																																																							
TOTALS						2.2	93	47																																																							
1000	PROJECT	25																																																													
TOTAL		25																																																													
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TOTAL		1																																																													

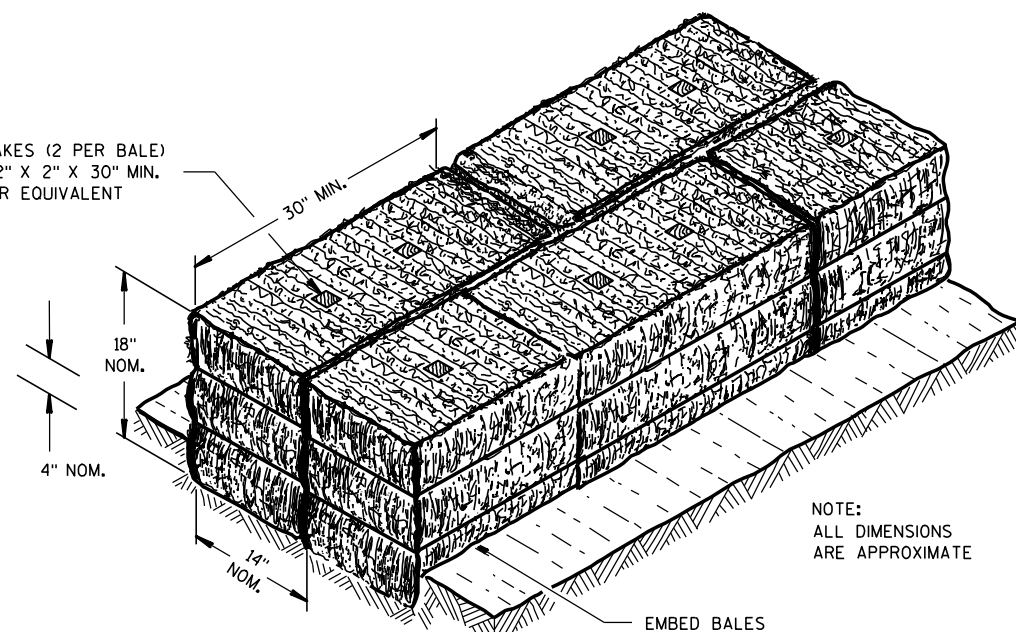
PROJECT NO: 1060-34-88	HWY: IH 894	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET:	E
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TYPE II PERMANENT SIGNING -			CATEGORY 1000			Project 1060-34-88	
SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE			637.2210	REMARKS / NEW SIGN LOCATION
			W [IN.]	x x	H [IN.]	SIGNS TYPE II REFLECTIVE H [SF]	
1	NONE	BLANK - IDENTIFIER BLADE	36	X	6	1.500	BLUE BACKGROUND - MOUNT ON WALL BRACKETS INCIDENTAL BLUE BACKGROUND - MOUNT ON WALL BRACKETS INCIDENTAL MOUNT ON WALL - SEE DETAIL MOUNT ON WALL - SEE DETAIL
1A	NONE	BLANK - IDENTIFIER BLADE	36	X	6	1.500	
2	D9-54(2S)	S. 102ND ST AT W. GRANT ST	18	X	24	3.000	
2A	D9-54(2S)	S. 102ND ST AT W. GRANT ST	18	X	24	3.000	
3	NONE	BLANK - IDENTIFIER BLADE	36	X	6	1.500	BLUE BACKGROUND - MOUNT ON WALL BRACKETS INCIDENTAL BLUE BACKGROUND - MOUNT ON WALL BRACKETS INCIDENTAL MOUNT ON WALL - SEE DETAIL MOUNT ON WALL - SEE DETAIL
3A	NONE	BLANK - IDENTIFIER BLADE	36	X	6	1.500	
4	D9-54(2S)	10119 W. GRANT CT	18	X	24	3.000	
4A	D9-54(2S)	10119 W. GRANT CT	18	X	24	3.000	
5	NONE	BLANK - IDENTIFIER BLADE	36	X	6	1.500	BLUE BACKGROUND - MOUNT ON WALL BRACKETS INCIDENTAL BLUE BACKGROUND - MOUNT ON WALL BRACKETS INCIDENTAL MOUNT ON WALL - SEE DETAIL MOUNT ON WALL - SEE DETAIL
5A	NONE	BLANK - IDENTIFIER BLADE	36	X	6	1.500	
6	D9-54(2S)	2054 S. 102ND ST	18	X	24	3.000	
6A	D9-54(2S)	2054 S. 102ND ST	18	X	24	3.000	
7	NONE	BLANK - IDENTIFIER BLADE	36	X	6	1.500	BLUE BACKGROUND - MOUNT ON WALL BRACKETS INCIDENTAL BLUE BACKGROUND - MOUNT ON WALL BRACKETS INCIDENTAL MOUNT ON WALL - SEE DETAIL MOUNT ON WALL - SEE DETAIL
7A	NONE	BLANK - IDENTIFIER BLADE	36	X	6	1.500	
8	D9-54(2S)	W. ROGERS ST AT S. 102ND ST	18	X	24	3.000	
8A	D9-54(2S)	W. ROGERS ST AT S. 102ND ST	18	X	24	3.000	
TOTALS						36.000	

Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
12A03-10	NAME PLATE (STRUCTURES)
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK

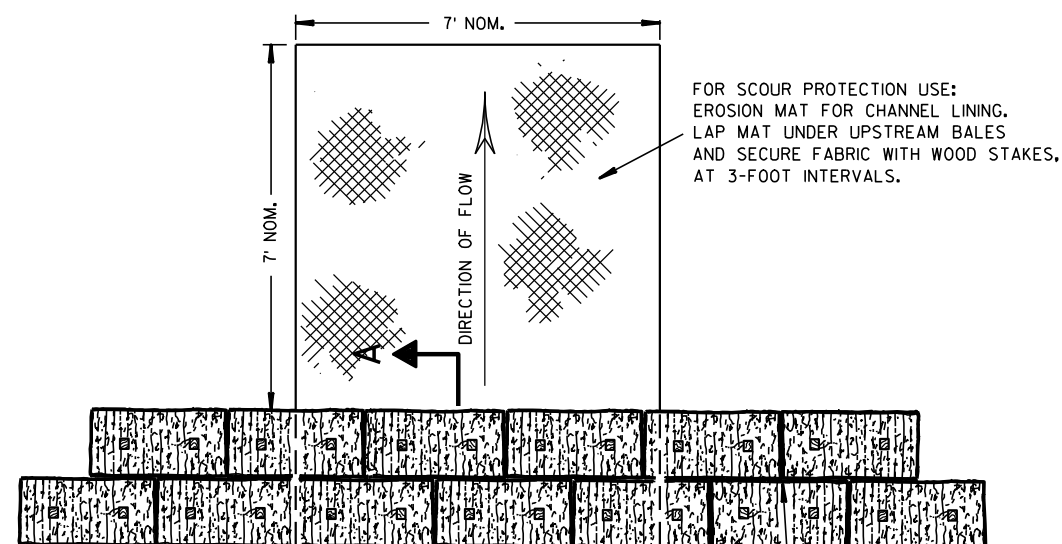
WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



NOTE:
ALL DIMENSIONS
ARE APPROXIMATE

EMBED BALES

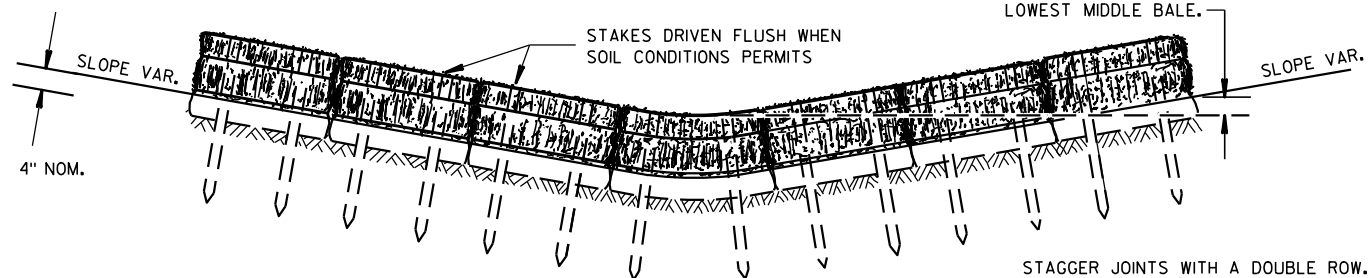
SECTION A-A



PLAN VIEW

STAGGER JOINTS BETWEEN ADJACENT
ROWS OF BALES.

BOTTOM ELEVATION OF END BALE SHALL
BE EQUAL TO OR GREATER THAN TOP OF
LOWEST MIDDLE BALE.



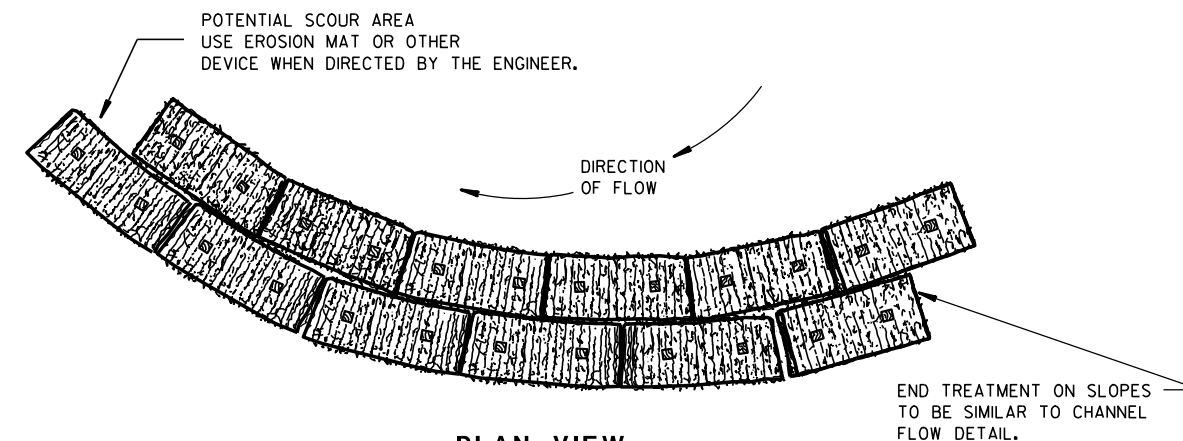
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

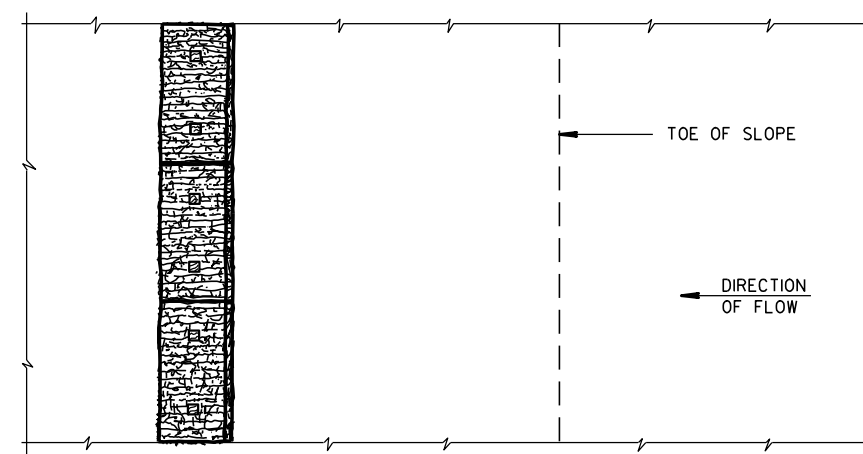
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

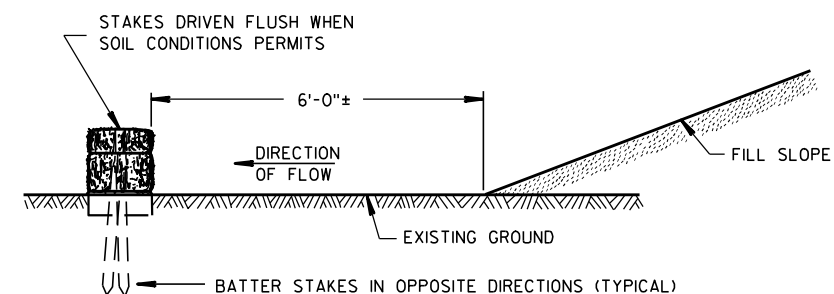


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

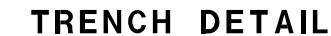
6/04/02
DATE

/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

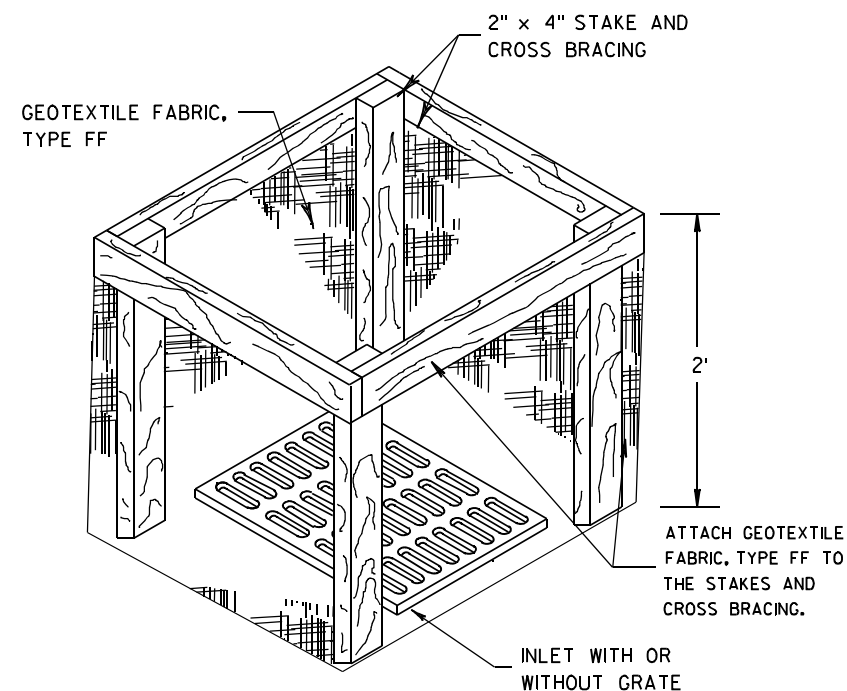
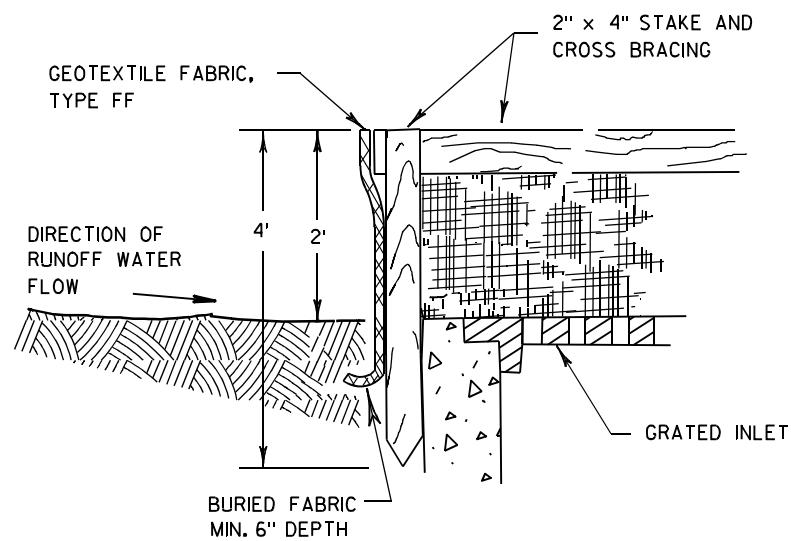
FHWA



- 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 1½" X 1½" 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.



SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED <u>4-29-05</u> DATE	<u>/S/ Beth Canestra</u> CHIEF ROADWAY DEVELOPMENT ENGINEER



INLET PROTECTION, TYPE A

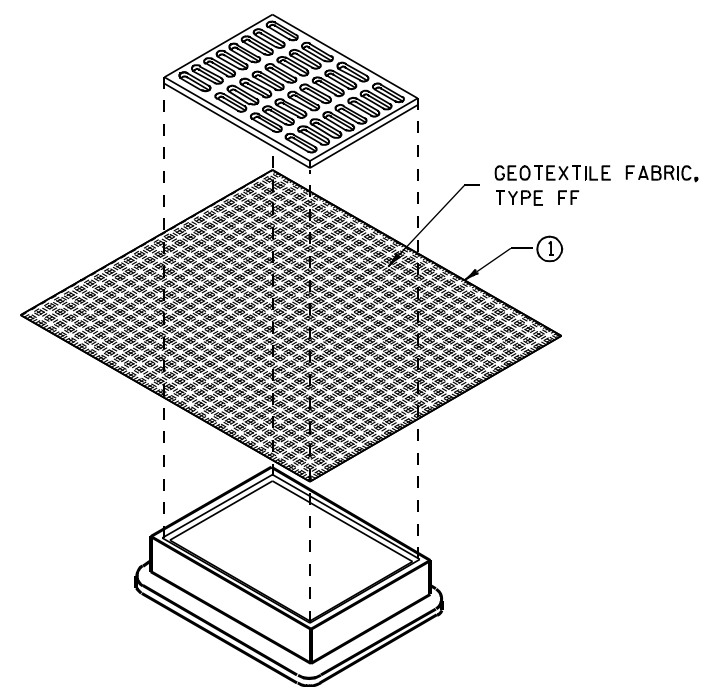
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

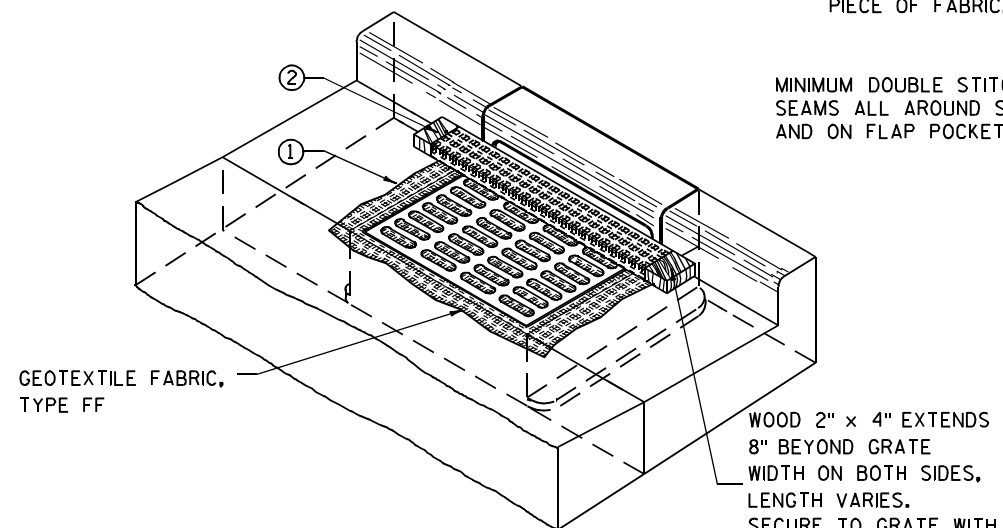
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



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.

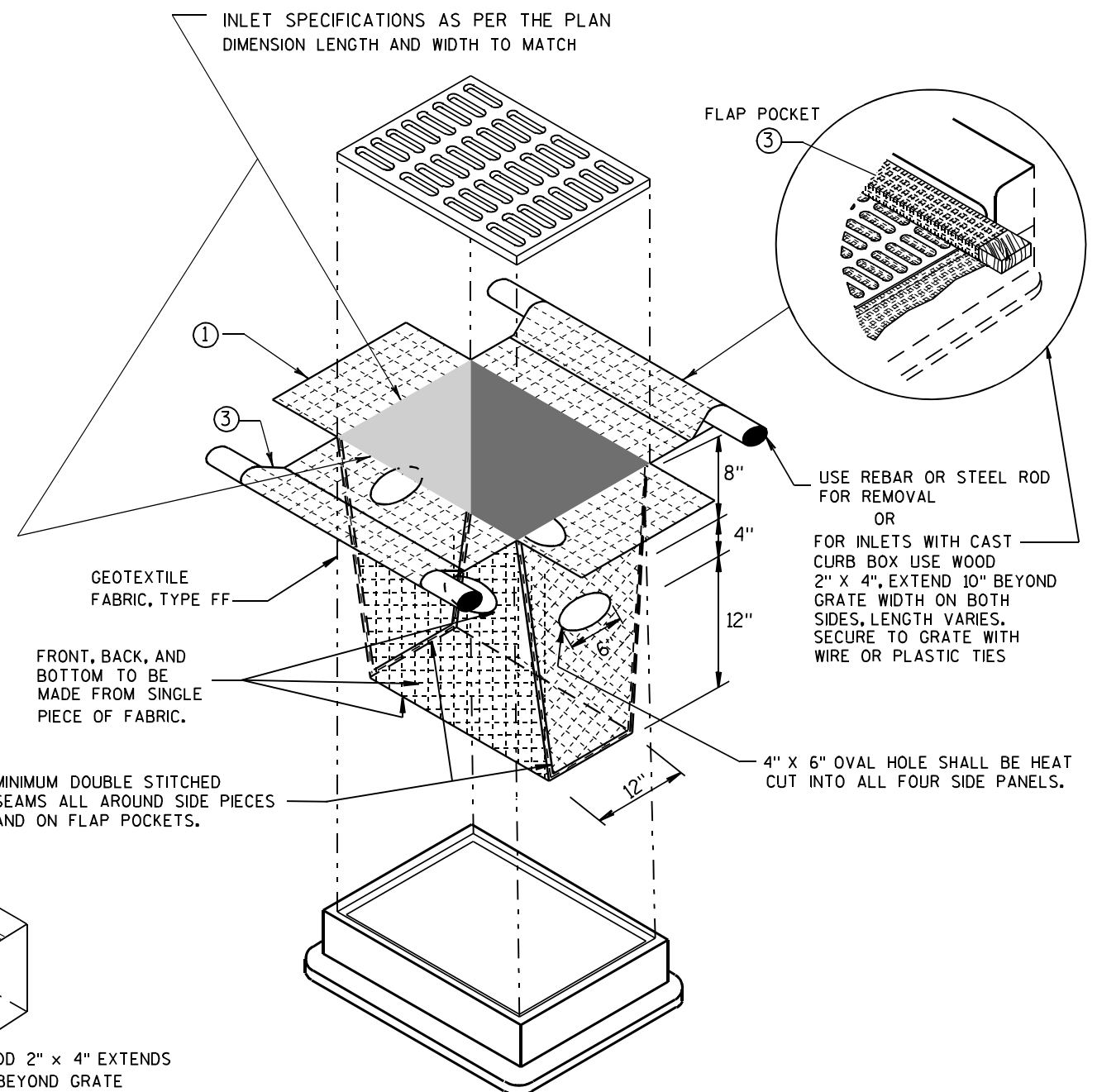
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

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.



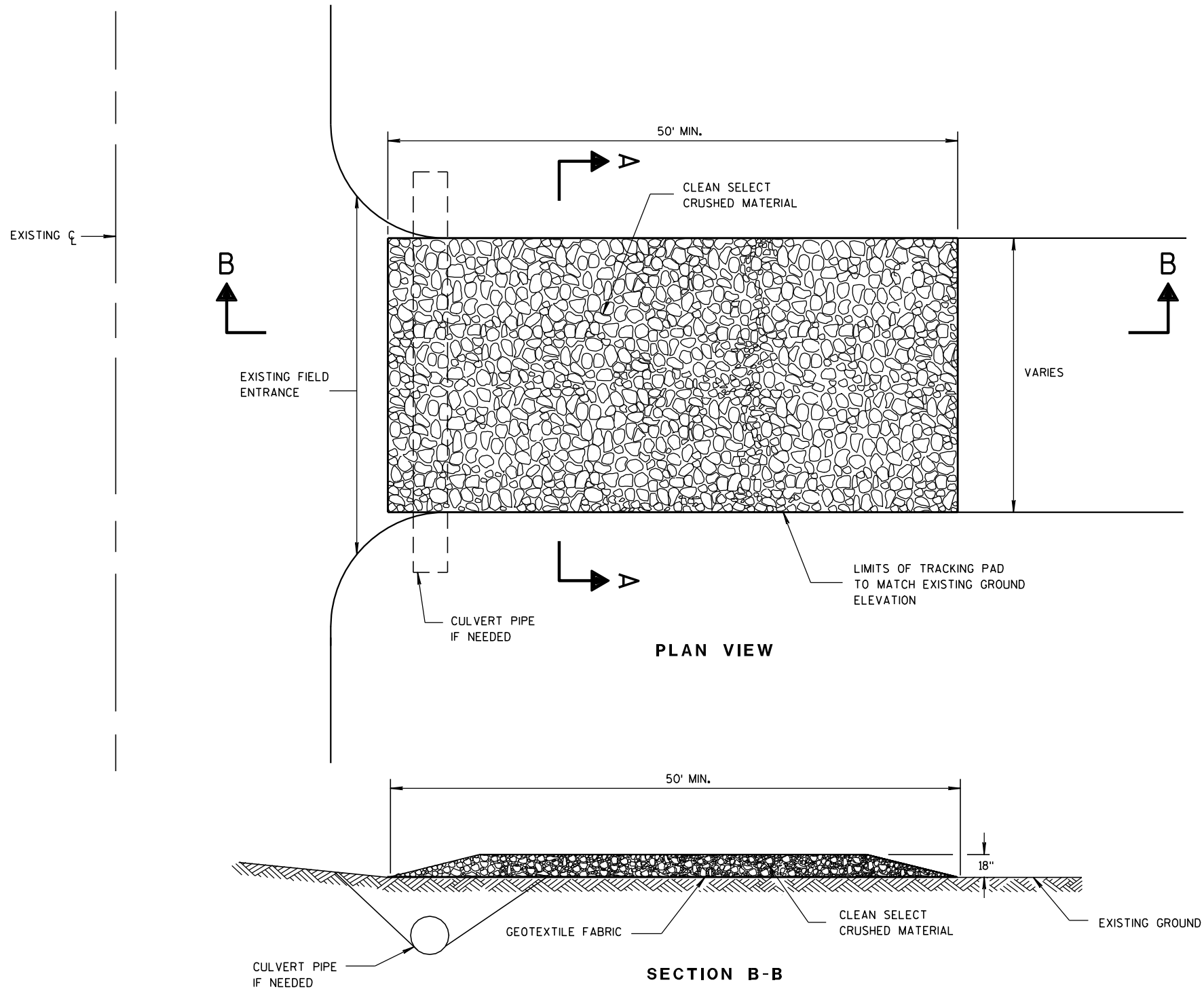
INLET PROTECTION, TYPE D

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

**INLET PROTECTION
TYPE A, B, C, AND D**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



TRACKING PAD

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

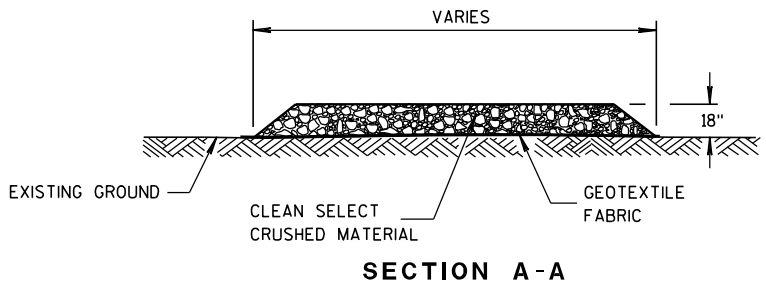
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

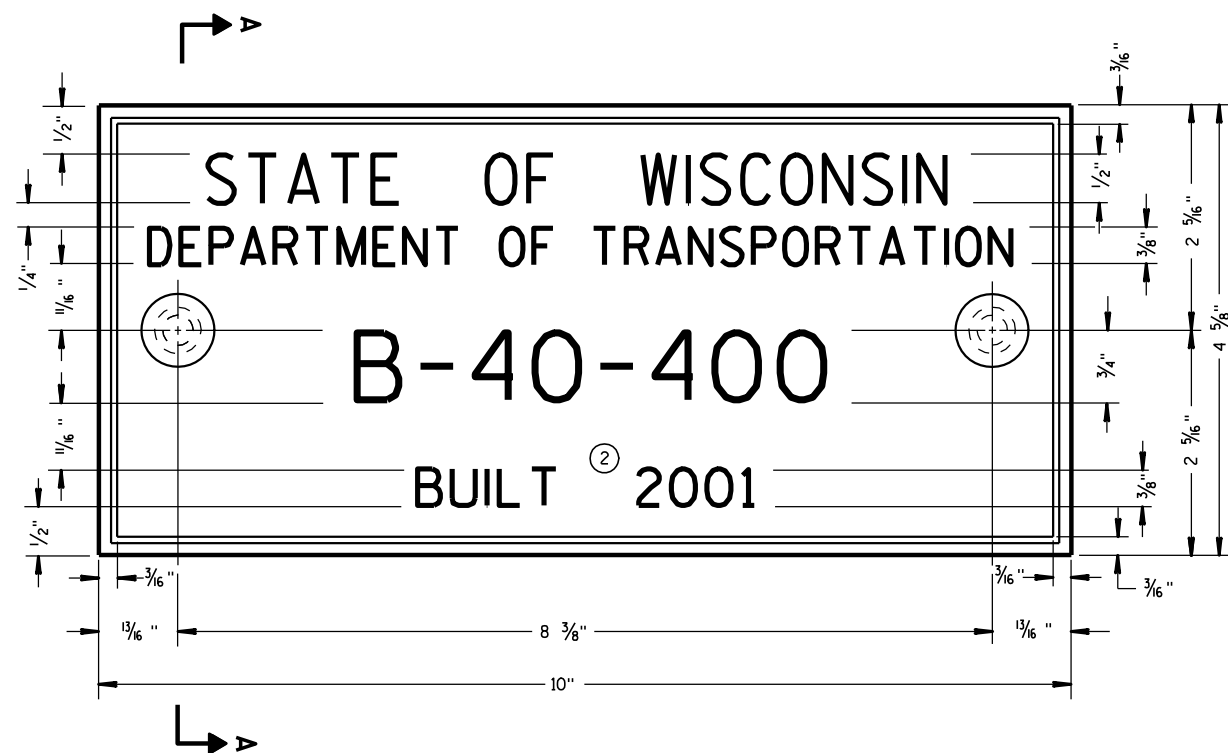
THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



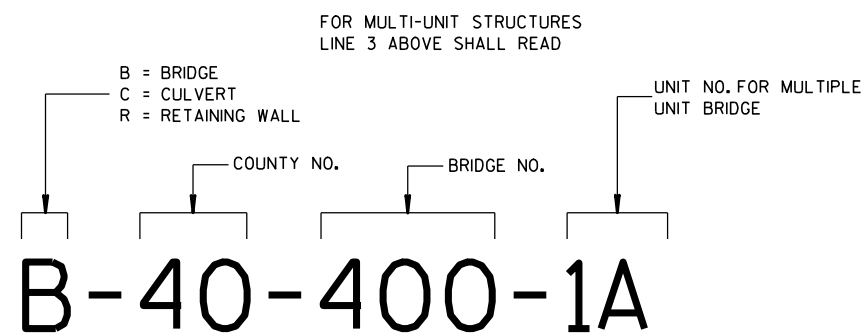
TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)



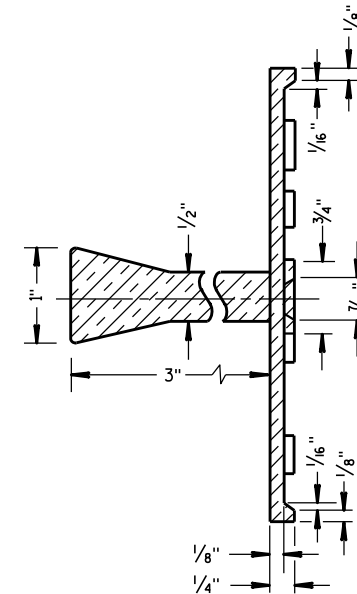
**NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES**

GENERAL NOTES

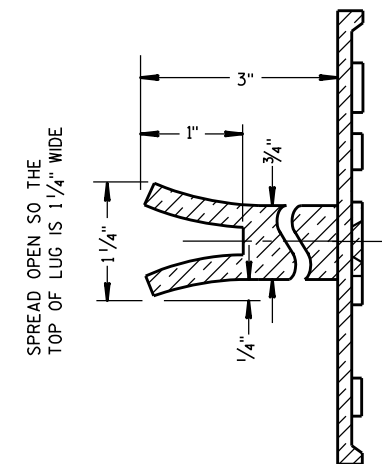
NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- ① EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ② REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.

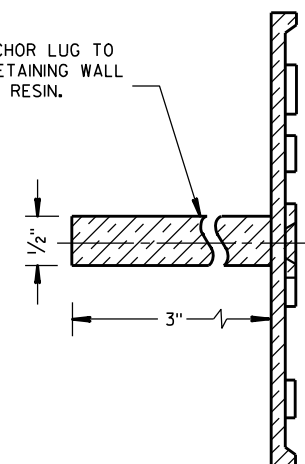


SECTION A-A



ALTERNATE LUG

- ① ADHERE ANCHOR LUG TO PRECAST RETAINING WALL WITH EPOXY RESIN.



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

**NAME PLATE
(STRUCTURES)**

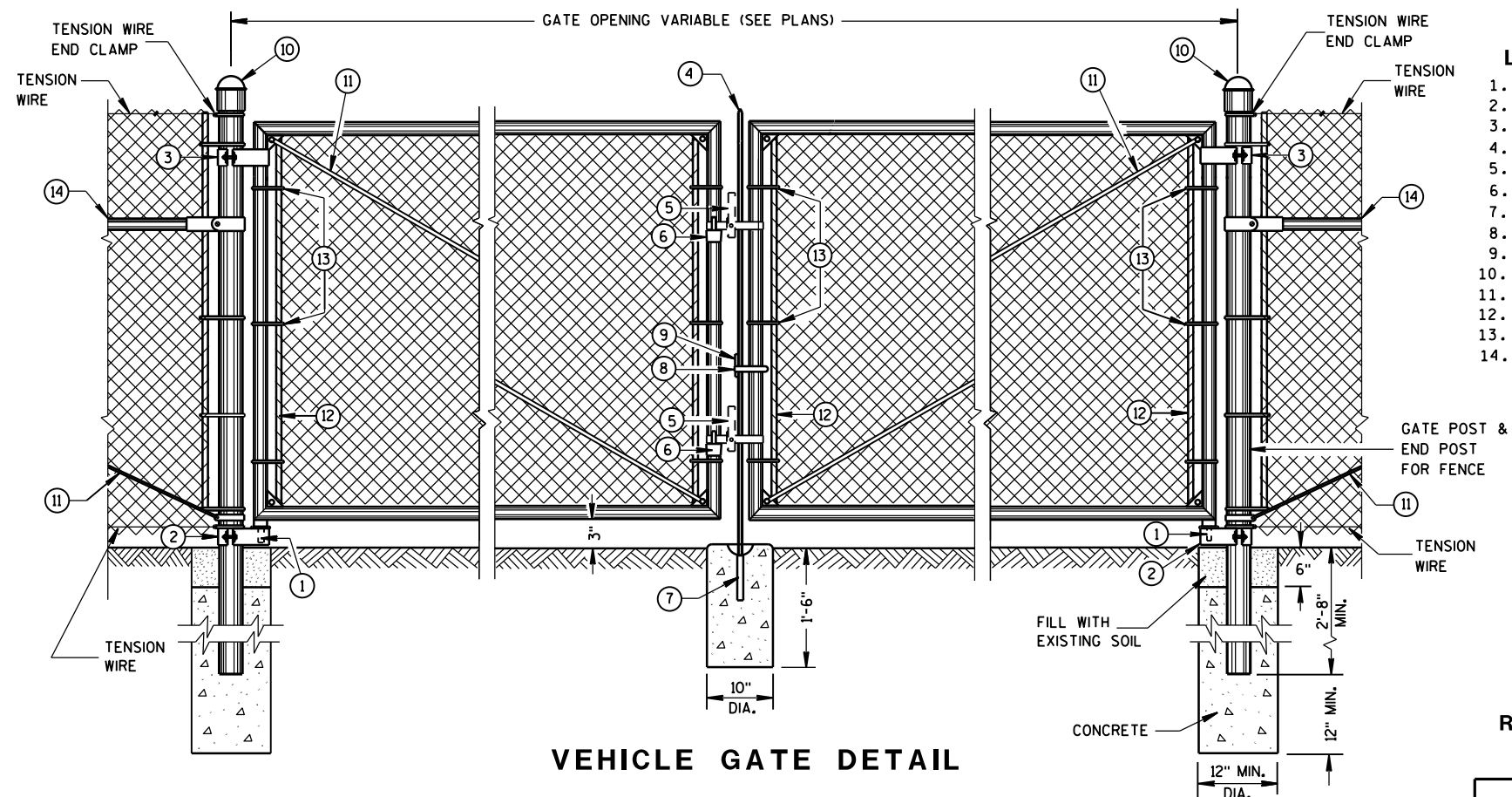
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

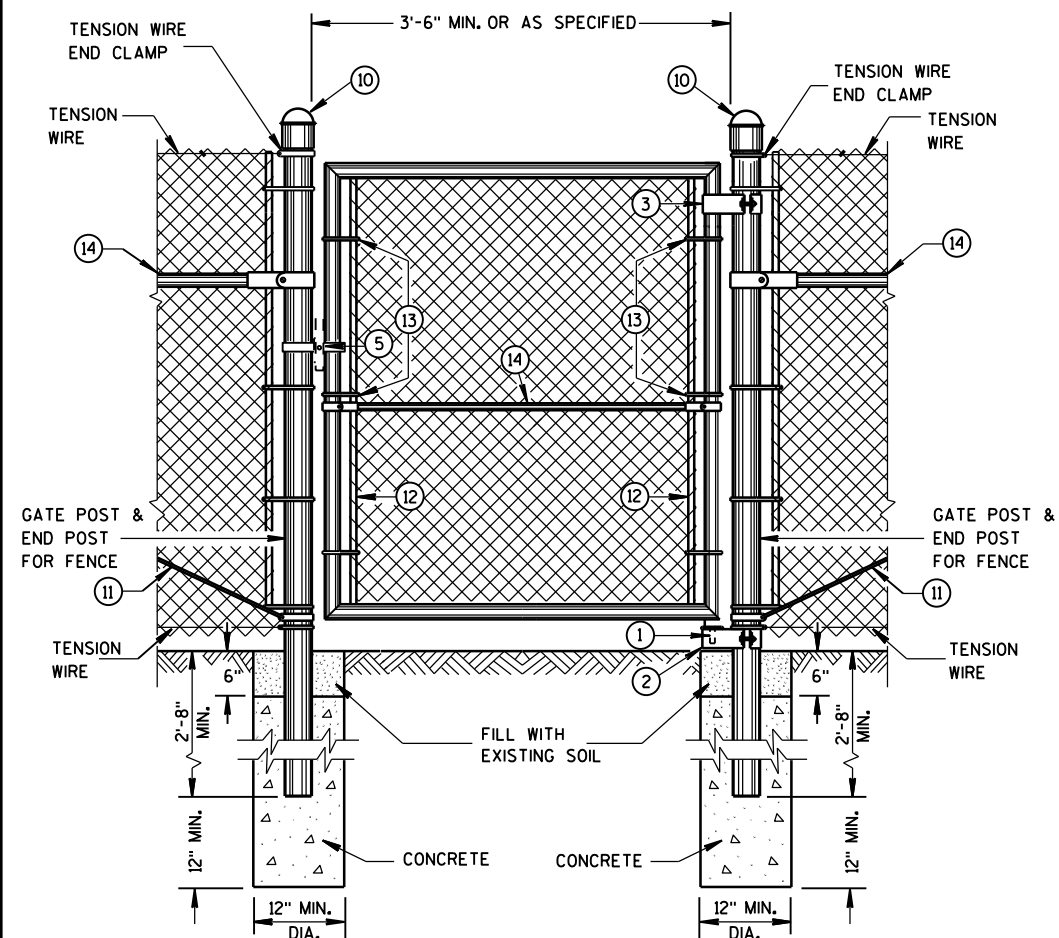
3/26/10
DATE

FHWA

/S/ Scot Becker
CHIEF STRUCTURAL DEVELOPMENT ENGINEER



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

- ## LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. 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.

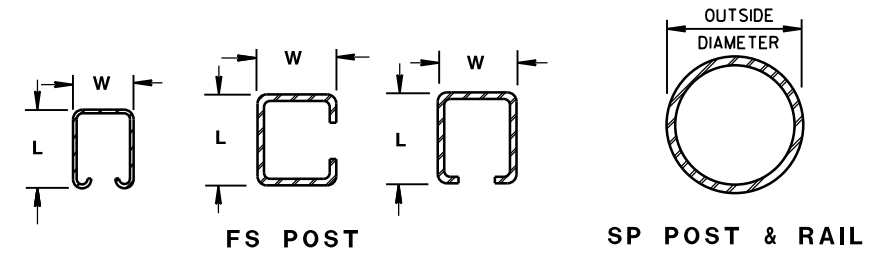
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

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.



CROSS SECTIONS OF POSTS AND RAILS

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

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	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 EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

REQUIRED FENCE POST SIZES

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

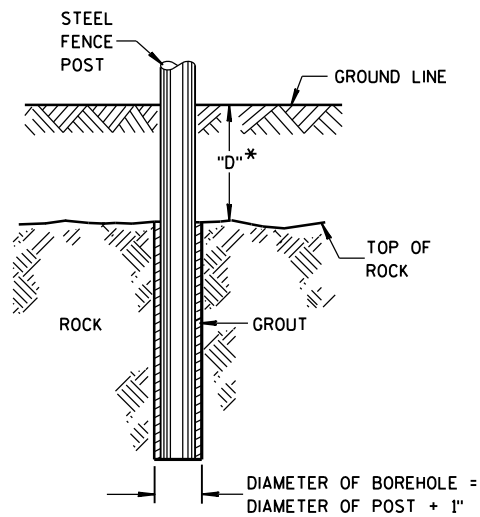
BRACE RAIL TYPES

USE		TYPE
BRACE RAIL	X	SP1 OR FS1

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

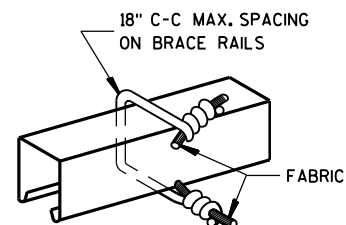
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



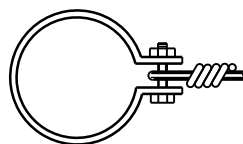
* IF "D" IS LESS THAN 2'-6",
DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST

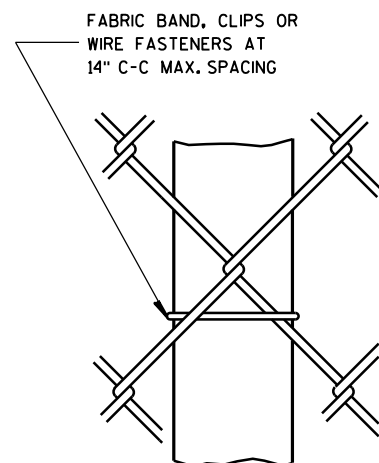


BRACE RAIL FABRIC FASTENER

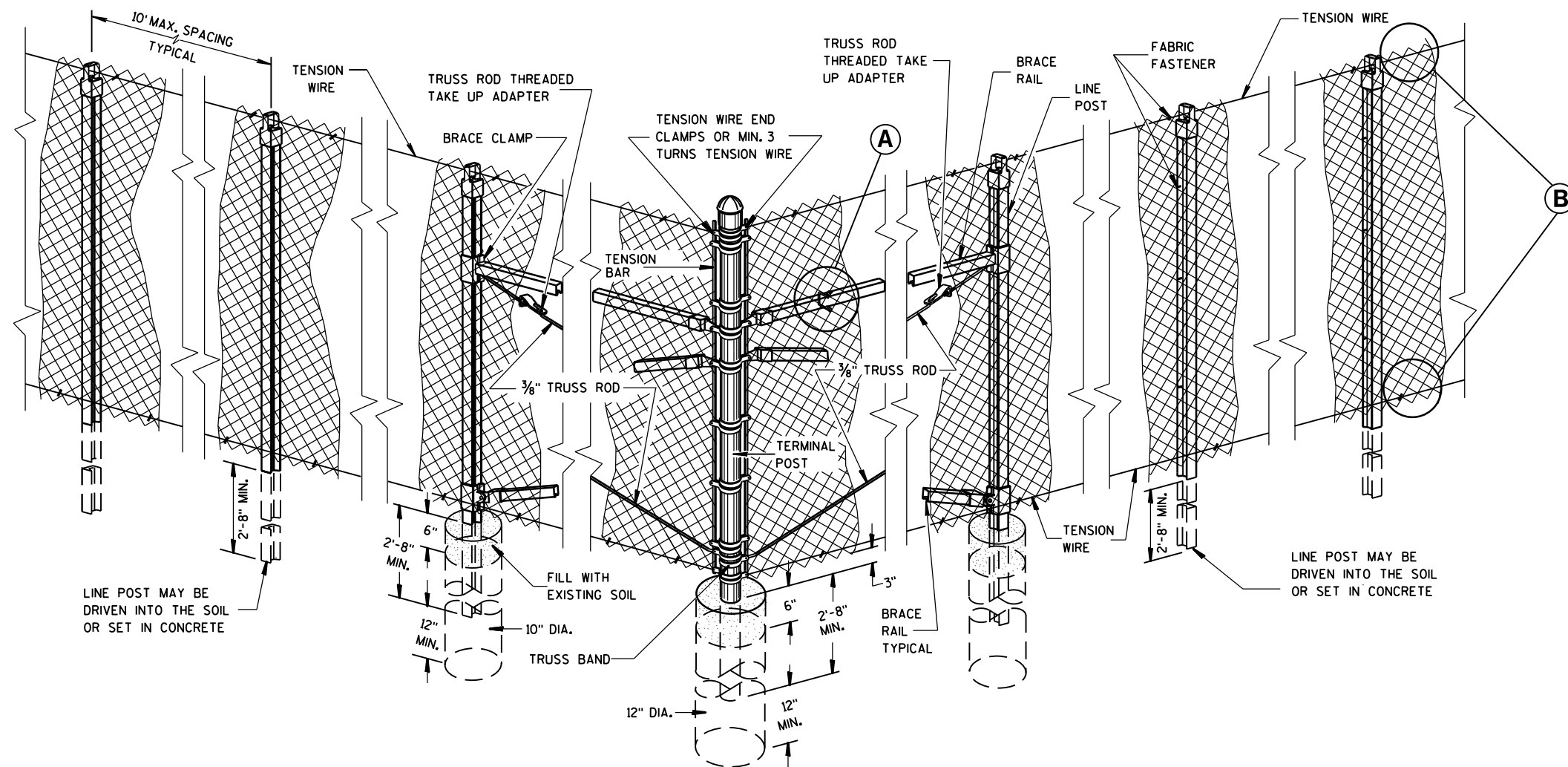
(A)



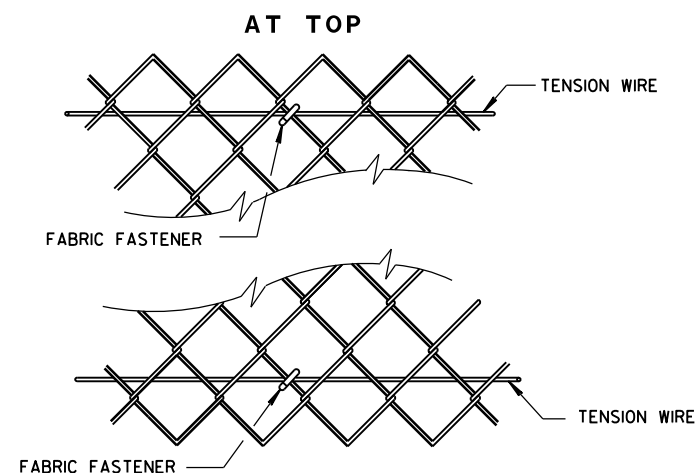
TENSION WIRE END CLAMP



LINE POST FABRIC FASTENER



END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS

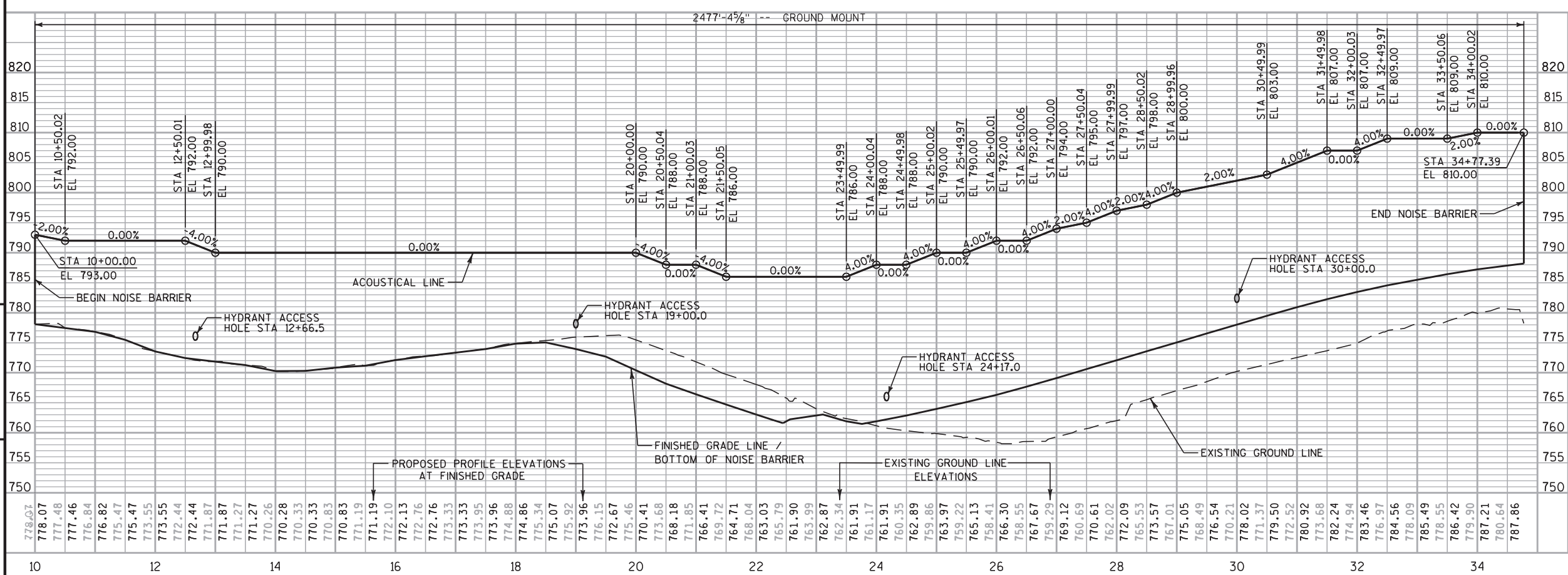
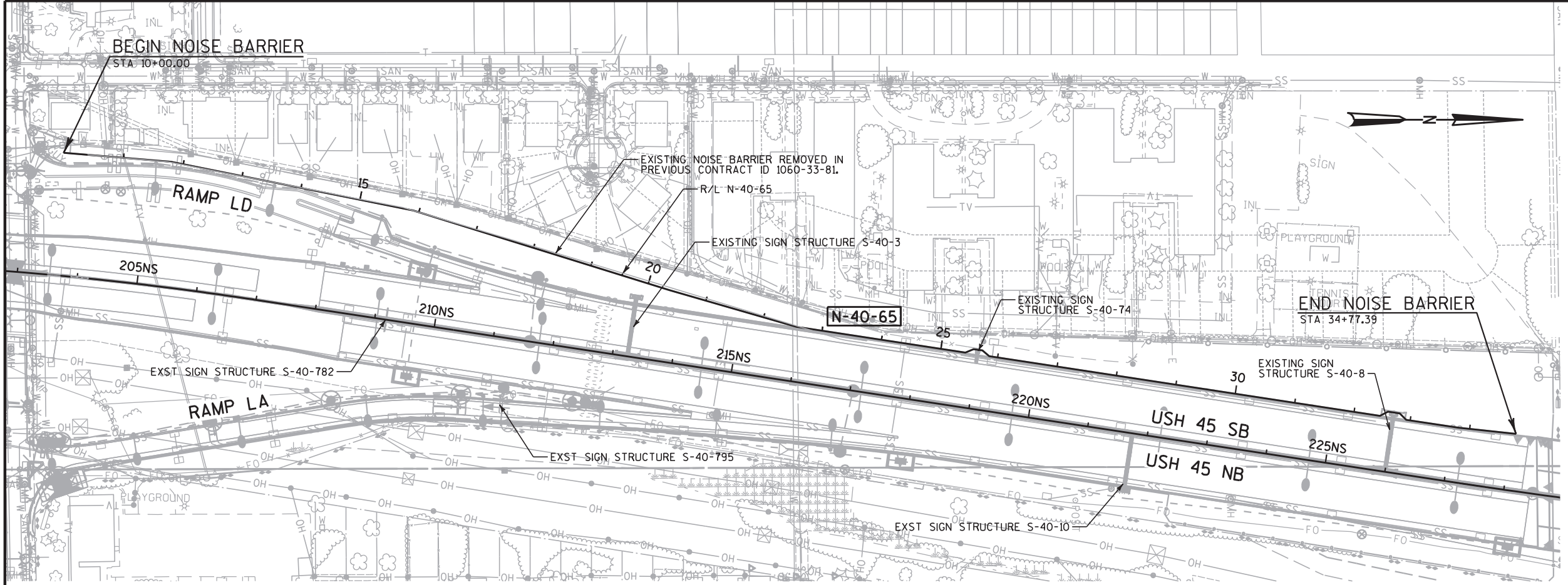


(B)

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEB. 2015
DATE /S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA



PLAN & PROFILE: NOISE BARRIER N-40-65

STATE PROJECT NUMBER

1060-34-88

NOTES

FOR UTILITY INFORMATION, SEE SHEETS 2 - 6.
LOCATE THE BOTTOM OF THE HYDRANT ACCESS HOLES 4.0' ABOVE THE BOTTOM OF NOISE BARRIER.

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. UTILITY PLAN (1 OF 5)
3. UTILITY PLAN (2 OF 5)
4. UTILITY PLAN (3 OF 5)
5. UTILITY PLAN (4 OF 5)
6. UTILITY PLAN (5 OF 5)
7. ALIGNMENT PLAN
8. QUANTITIES & CONSTRUCTION DETAILS
9. AESTHETIC WALL TREATMENT DETAILS RESIDENTIAL SIDE
10. AESTHETIC WALL TREATMENT DETAILS FREEWAY SIDE
11. SUBSURFACE EXPLORATION (1 OF 3)
12. SUBSURFACE EXPLORATION (2 OF 3)
13. SUBSURFACE EXPLORATION (3 OF 3)



4/19/2017

STRUCTURES DESIGN CONTACTS

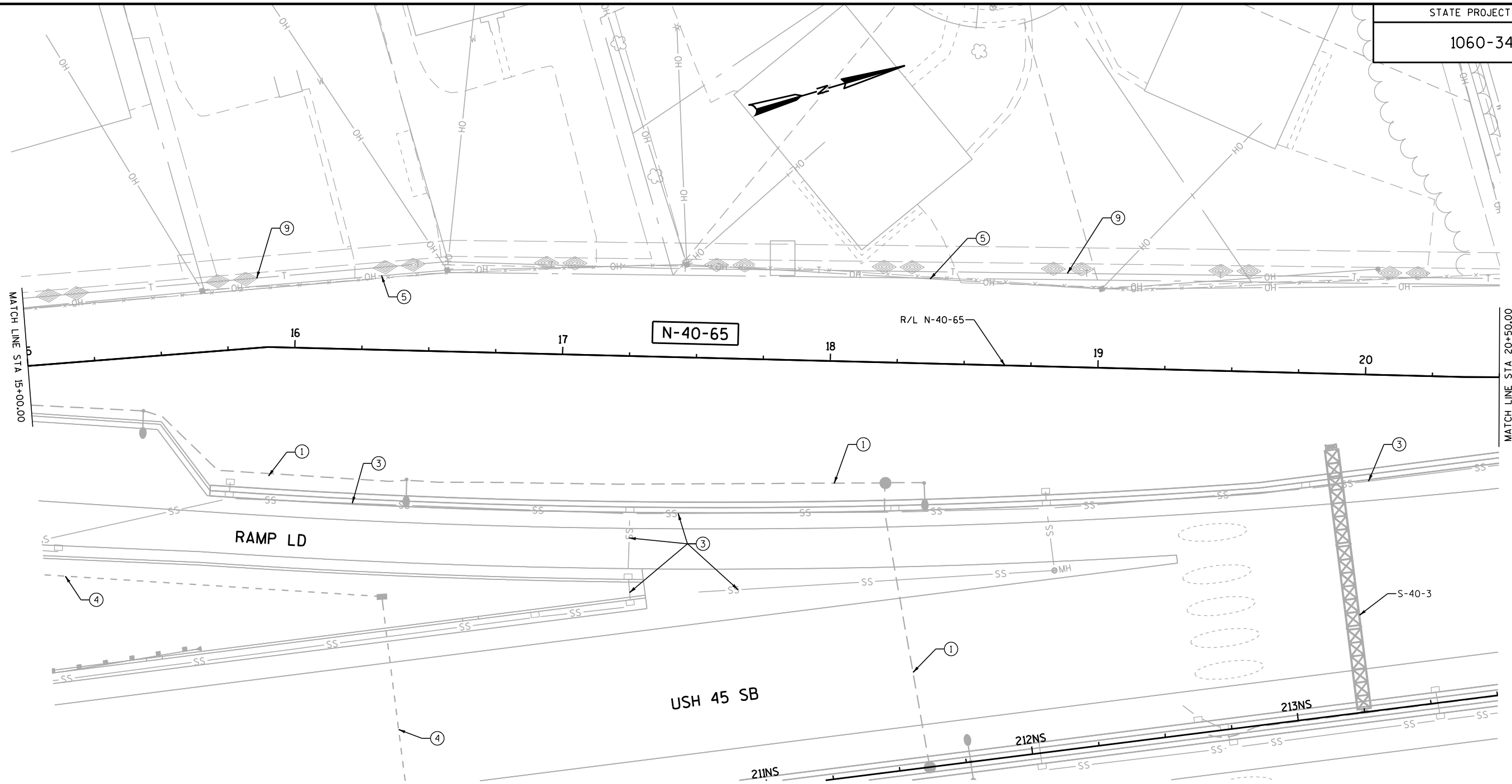
BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
ED MCCRIGHT (414) 272-2426

NO.	DATE	REVISION	BY
			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED <i>William C. Dreher</i> SDR		05/11/17	
CHIEF STRUCTURES DESIGN ENGINEER		DATE	
STRUCTURE N-40-65			
NOISE BARRIER N OF LINCOLN/WEST OF USH 45 SB			
COUNTY	MILWAUKEE	TOWN/CITY/VILLAGE	WEST ALLIS
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS			
DESIGNED BY	KES	DESIGN CK'D.	EKM
DRAWN BY	GLM	PLANS CK'D.	KES
GENERAL PLAN & ELEVATION			SHEET 1 OF 13



- ① EXISTING WISDOT LIGHTING TO REMAIN
- ② EXISTING CHARTER COMMUNICATIONS TV TO REMAIN
- ③ EXISTING WISDOT STORM SEWER TO REMAIN
- ④ EXISTING WISDOT FTMS TO REMAIN
- ⑤ EXISTING WE ENERGIES OH ELECTRIC TO REMAIN
- ⑥ EXISTING WE ENERGIES ELECTRIC TO REMAIN
- ⑦ EXISTING WISDOT SIGNALS TO REMAIN
- ⑧ EXISTING CITY OF WEST ALLIS WATER LINE TO REMAIN
- ⑨ EXISTING AT&T WISCONSIN TELEPHONE LINE TO REMAIN

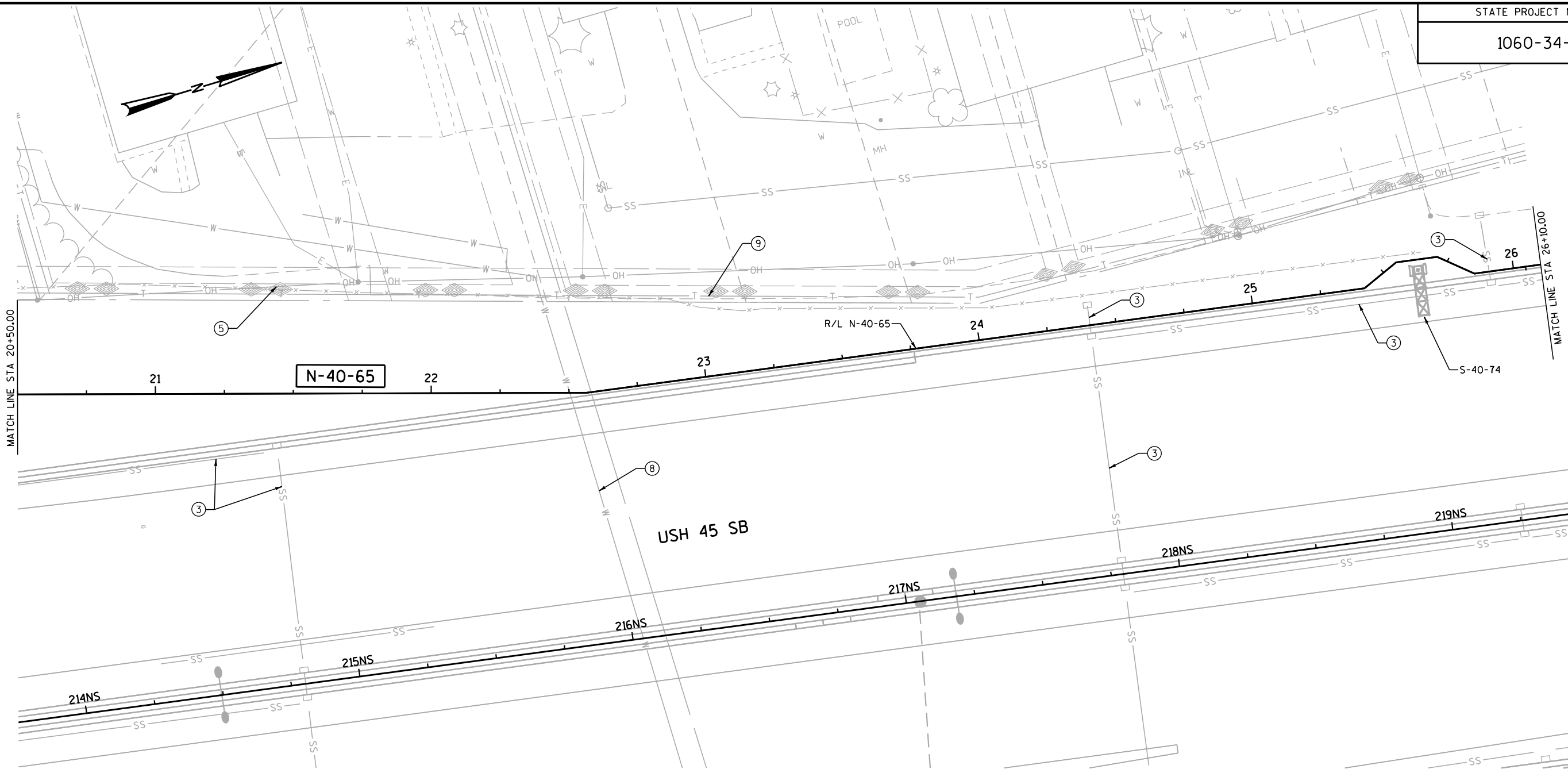
PLOT SCALE : 40:1



UTILITY LEGEND

- ① EXISTING WISDOT LIGHTING TO REMAIN
- ② EXISTING CHARTER COMMUNICATIONS TV TO REMAIN
- ③ EXISTING WISDOT STORM SEWER TO REMAIN
- ④ EXISTING WISDOT FTMS TO REMAIN
- ⑤ EXISTING WE ENERGIES OH ELECTRIC TO REMAIN
- ⑥ EXISTING WE ENERGIES ELECTRIC TO REMAIN
- ⑦ EXISTING WISDOT SIGNALS TO REMAIN
- ⑧ EXISTING CITY OF WEST ALLIS WATER LINE TO REMAIN
- ⑨ EXISTING AT&T WISCONSIN TELEPHONE LINE TO REMAIN

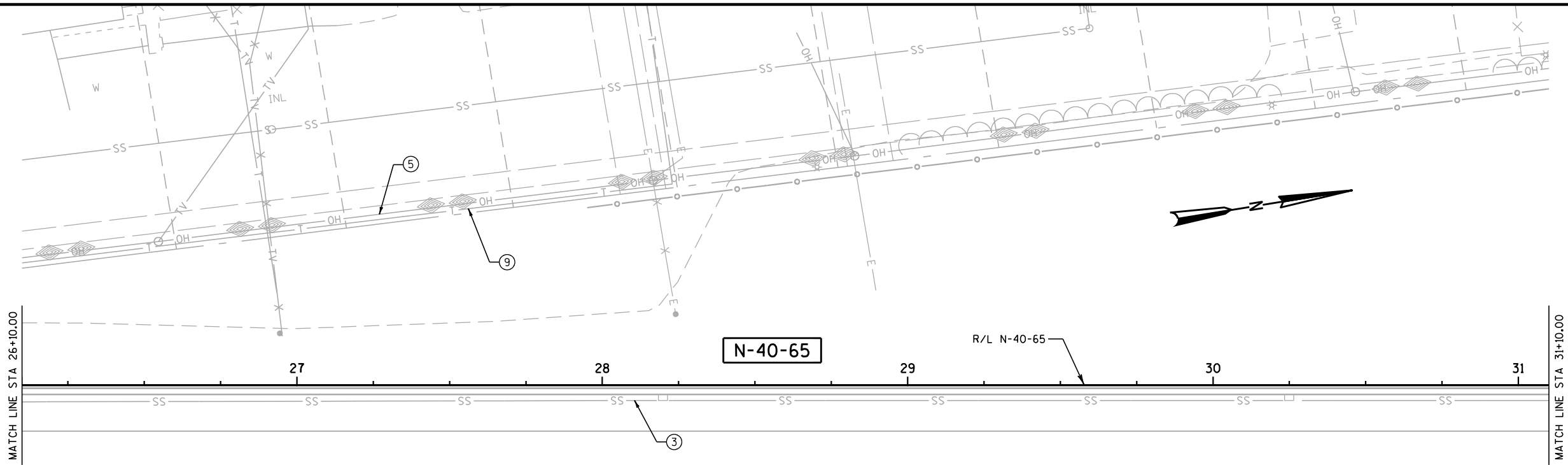
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE N-40-65			
DRAWN BY		GLM	PLANS CK'D. KES
UTILITY PLAN (2 OF 5)			SHEET 3 OF 13



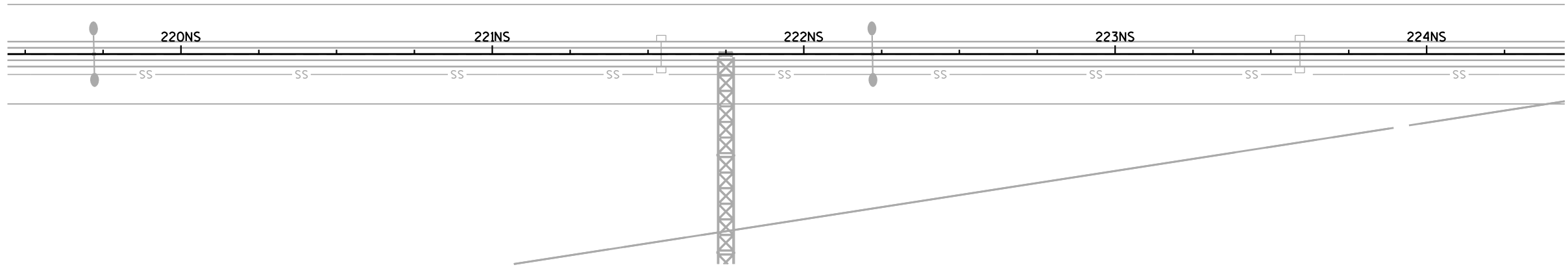
UTILITY LEGEND

- ① EXISTING WISDOT LIGHTING TO REMAIN
- ② EXISTING CHARTER COMMUNICATIONS TV TO REMAIN
- ③ EXISTING WISDOT STORM SEWER TO REMAIN
- ④ EXISTING WISDOT FTMS TO REMAIN
- ⑤ EXISTING WE ENERGIES OH ELECTRIC TO REMAIN
- ⑥ EXISTING WE ENERGIES ELECTRIC TO REMAIN
- ⑦ EXISTING WISDOT SIGNALS TO REMAIN
- ⑧ EXISTING CITY OF WEST ALLIS WATER LINE TO REMAIN
- ⑨ EXISTING AT&T WISCONSIN TELEPHONE LINE TO REMAIN

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE N-40-65			
DRAWN BY		GLM	PLANS CK'D. KES
UTILITY PLAN (3 OF 5)			SHEET 4 OF 13



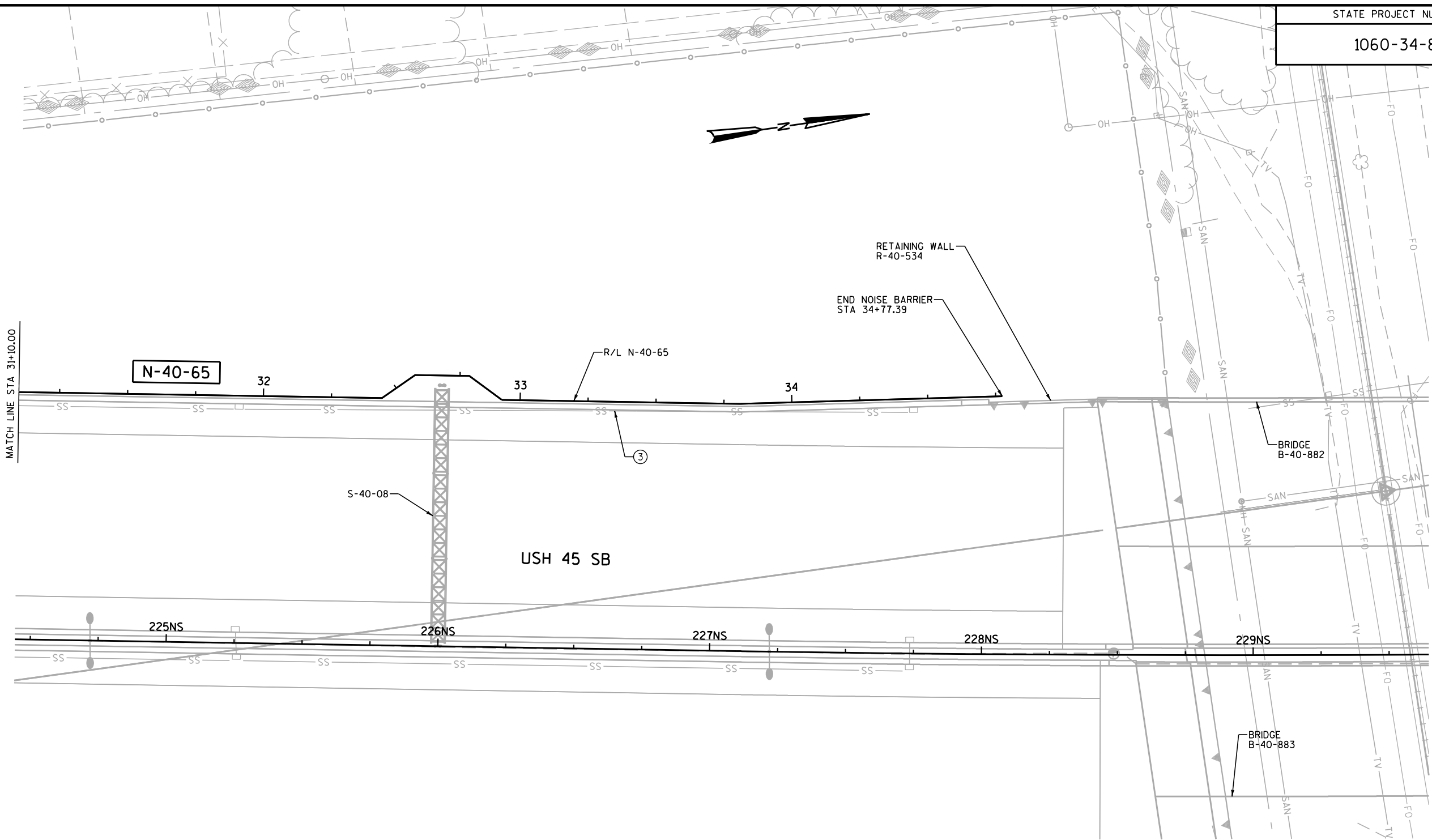
USH 45 SB



UTILITY LEGEND

- ① EXISTING WISDOT LIGHTING TO REMAIN
- ② EXISTING CHARTER COMMUNICATIONS TV TO REMAIN
- ③ EXISTING WISDOT STORM SEWER TO REMAIN
- ④ EXISTING WISDOT FTMS TO REMAIN
- ⑤ EXISTING WE ENERGIES OH ELECTRIC TO REMAIN
- ⑥ EXISTING WE ENERGIES ELECTRIC TO REMAIN
- ⑦ EXISTING WISDOT SIGNALS TO REMAIN
- ⑧ EXISTING CITY OF WEST ALLIS WATER LINE TO REMAIN
- ⑨ EXISTING AT&T WISCONSIN TELEPHONE LINE TO REMAIN

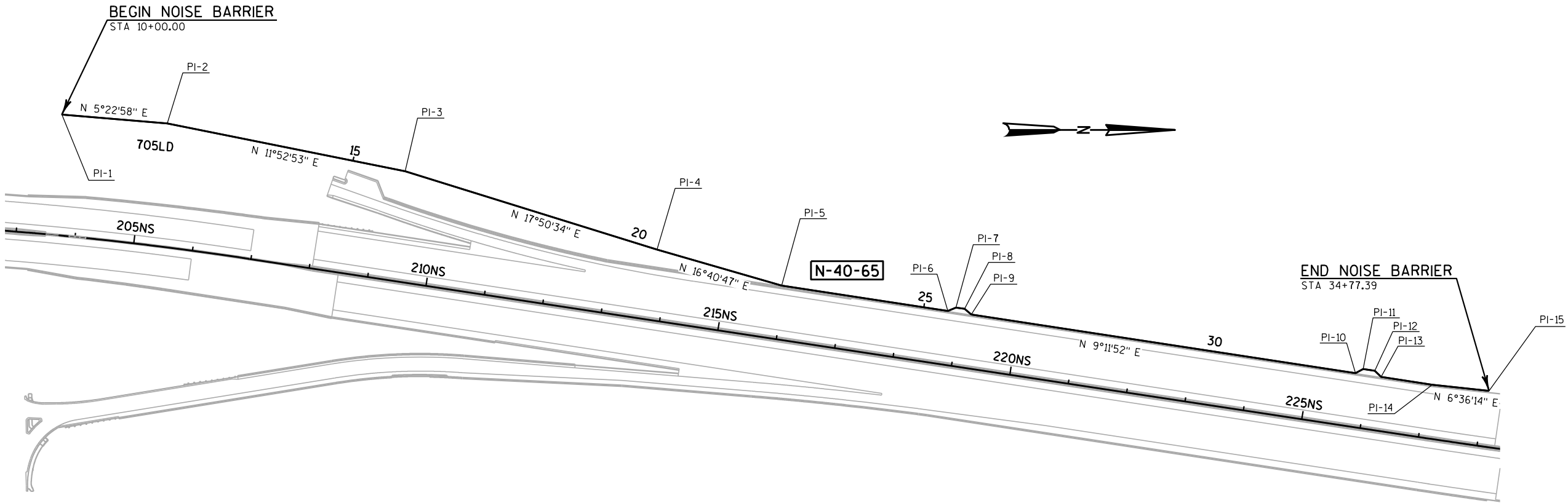
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE N-40-65			
		DRAWN BY	GLM PLANS CK'D. KES
UTILITY PLAN (4 OF 5)		SHEET 5 OF 13	



UTILITY LEGEND

- ① EXISTING WISDOT LIGHTING TO REMAIN
- ② EXISTING CHARTER COMMUNICATIONS TV TO REMAIN
- ③ EXISTING WISDOT STORM SEWER TO REMAIN
- ④ EXISTING WISDOT FTMS TO REMAIN
- ⑤ EXISTING WE ENERGIES OH ELECTRIC TO REMAIN
- ⑥ EXISTING WE ENERGIES ELECTRIC TO REMAIN
- ⑦ EXISTING WISDOT SIGNALS TO REMAIN
- ⑧ EXISTING CITY OF WEST ALLIS WATER LINE TO REMAIN
- ⑨ EXISTING AT&T WISCONSIN TELEPHONE LINE TO REMAIN

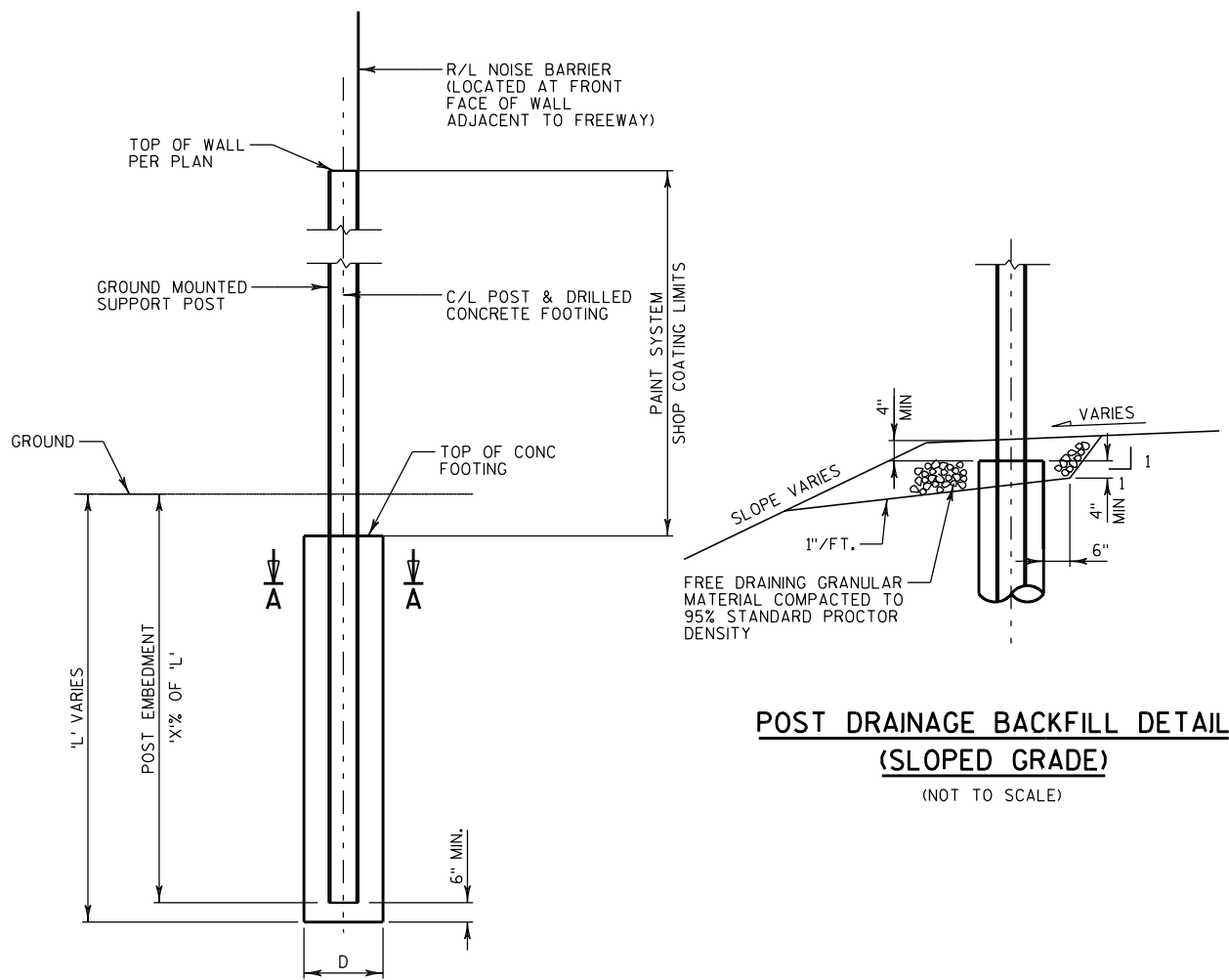
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE N-40-65			
DRAWN BY		GLM	PLANS CK'D. KES
UTILITY PLAN (5 OF 5)			SHEET 6 OF 13



ALIGNMENT DATA

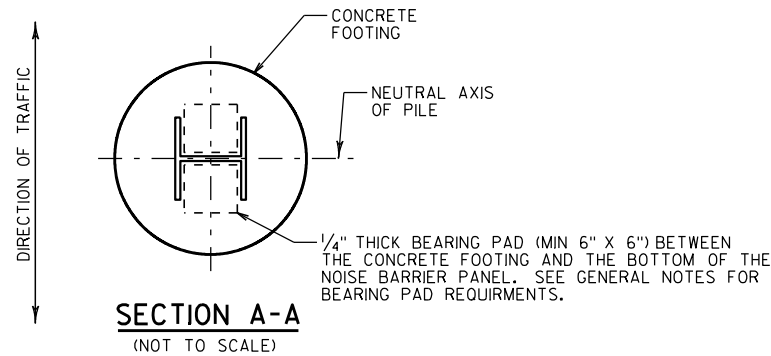
PI NO	STATION	X	Y
PI-1	10+00.00	571326.30	286586.90
PI-2	11+79.09	571343.10	286765.20
PI-3	15+89.99	571427.70	287167.30
PI-4	20+36.78	571564.60	287592.60
PI-5	22+56.37	571627.63	287802.94
PI-6	25+41.07	571673.13	288083.99
PI-7	25+55.90	571667.41	288097.67
PI-8	25+70.90	571669.81	288112.48
PI-9	25+85.74	571679.56	288123.66
PI-10	32+43.60	571784.71	288773.06
PI-11	32+58.43	571778.08	288786.33
PI-12	32+78.43	571781.28	288806.08
PI-13	32+93.26	571791.76	288816.57
PI-14	33+80.99	571805.78	288903.17
PI-15	34+77.39	571816.87	288998.97

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE N-40-65			
DRAWN BY		GLM	PLANS CK'D. KES
ALIGNMENT PLAN			SHEET 7 OF 13



SECTION THRU GROUND MOUNTED
POST & DRILLED CONC FOOTING

TYPICAL AT EACH POST LOCATION
(NOT TO SCALE)
('D', 'L' AND 'X' TO BE DETERMINED BY SUPPLIER)

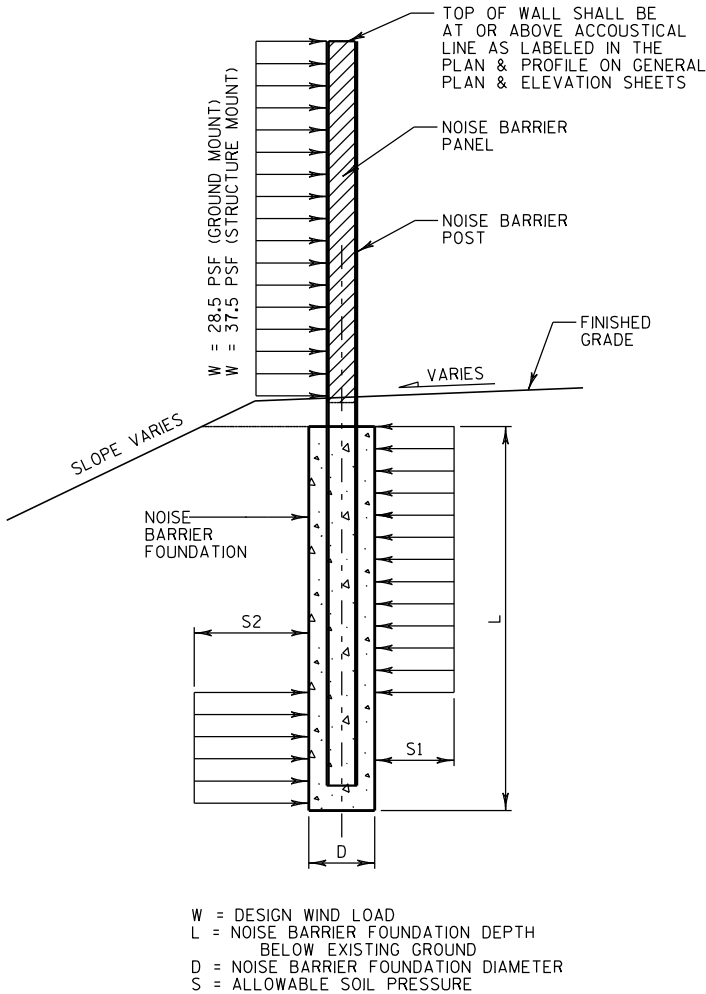


TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
531.0300.S.0001	NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-40-65	SF	53,860

ALL ITEMS ARE CATEGORY ID 9000

POST DRAINAGE BACKFILL DETAIL
(SLOPED GRADE)
(NOT TO SCALE)



NOISE BARRIER LOADING DIAGRAM
(NOT TO SCALE)

W = DESIGN WIND LOAD
L = NOISE BARRIER FOUNDATION DEPTH
BELOW EXISTING GROUND
D = NOISE BARRIER FOUNDATION DIAMETER
S = ALLOWABLE SOIL PRESSURE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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 ABSORPTIVE N-40-65".

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 FINISHED GRADE LINE AND THE ACCOUSTICAL LINE SHOWN ON THE GENERAL PLAN AND ELEVATION SHEETS.

THE ACCOUSTICAL LINE IS THE TOP PAY LIMIT FOR THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-40-65". NOISE BARRIER PLACED ABOVE THE ACCOUSTICAL LINE WILL NOT BE MEASURED FOR PAYMENT.

THE FINISHED GRADE LINE IS THE BOTTOM PAY LIMIT FOR THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-40-65". NOISE BARRIER PLACED BELOW THE FINISHED GRADE LINE WILL NOT BE MEASURED FOR PAYMENT.

EXISTING BORING LOGS AND LAB DATA IN THE VICINITY OF THE PROPOSED NOISE BARRIERS HAVE BEEN COMPILED AND INCLUDED IN THE DOCUMENT "CORE 2 CONTRACT NOISE BARRIER GEOTECHNICAL DATA REPORT", DATED DEC 12, 2014. CONTACT JOSH LEVEQUE - WISDOT, (414) 750-1468, 141 NW BARSTOW STREET, P.O. BOX 798, WAUKESHA, WI 53188 TO OBTAIN A COPY. THE CONTRACTORS ARE RESPONSIBLE TO REVIEW THE DATA IN THIS REPORT TO HELP ASSESS FIELD DRILLING CONDITIONS AND TO SUPPORT DEVELOPMENT OF SOIL DESIGN PARAMETERS FOR THE NOISE BARRIER FOUNDATION DESIGN.

THE STRUCTURAL AND FOUNDATION DESIGN OF THE NOISE BARRIER SYSTEM SHALL CONFORM TO THE 7TH EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

THE FOLLOWING DESIGN PRESSURES SHALL BE USED IN ACCORDANCE WITH THE SPECIAL PROVISIONS:
28.5 P.S.F. FOR GROUND MOUNTED BARRIERS
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 REINFORCEMENT OF A #4 BAR WHICH SHALL BE CONTINUOUS AROUND THE CORNERS.

A COMPRESSIBLE BEARING PAD OF 1/4" 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-40-65".

PRECAST CONCRETE PEDESTALS PLACED BETWEEN THE FOUNDATION AND BOTTOM PANELS SHALL BE REINFORCED IF OVER 1'-0" HIGH.

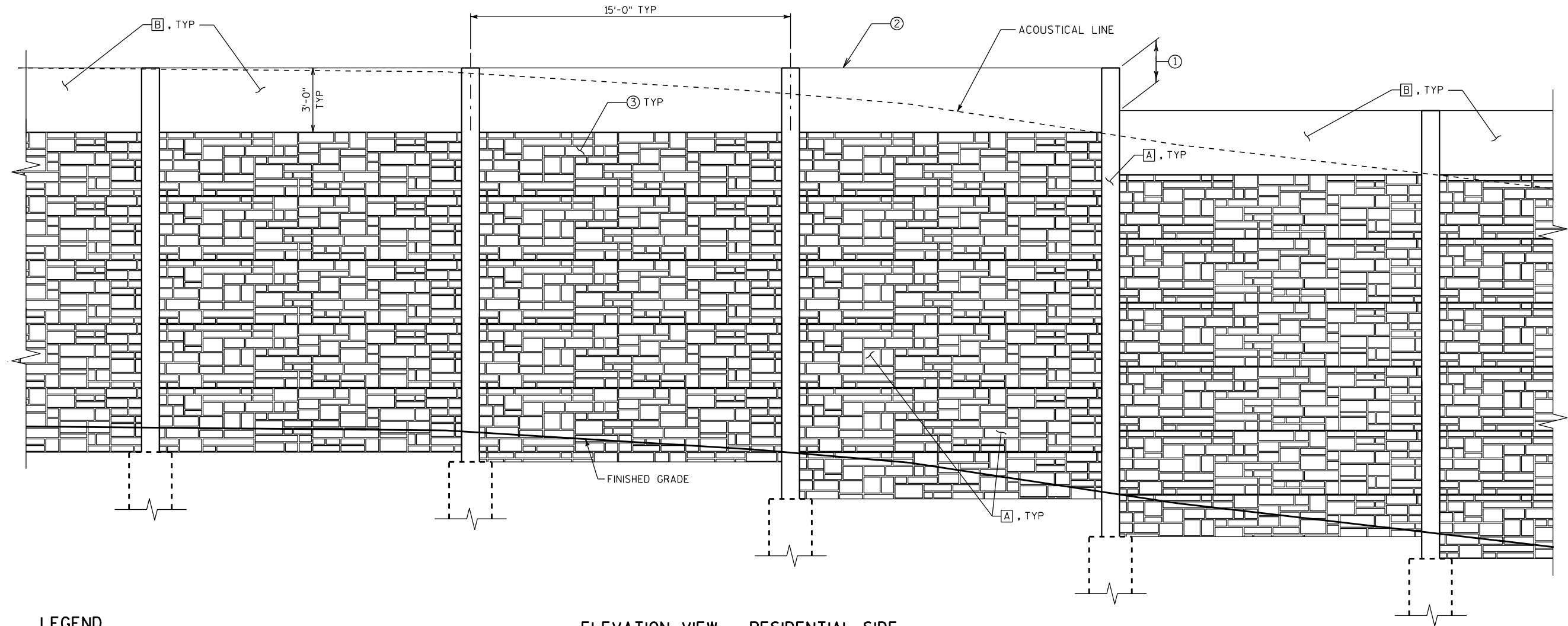
INCLUDE THE COST OF THE STONE PATTERN SURFACE TREATMENT, REVEALS, COATING OF STEEL POSTS AND CONNECTIONS, AND COLORING/STAINING THE PANELS, UNDER THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-40-65".

LOCATE HYDRANT ACCESS HOLES IN NOISE BARRIERS WITH COVER SIGNS AT LOCATIONS SHOWN ON THE GENERAL PLAN & ELEVATION SHEETS. PROVIDING HYDRANT ACCESS HOLES IS INCIDENTAL TO THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-40-65".

INSTALL FREE DRAINING GRANULAR MATERIAL AT THE BOTTOM OF NOISE BARRIERS AS SHOWN IN THE NOISE BARRIER PLANS. FREE DRAINING GRANULAR MATERIAL IS INCIDENTAL TO THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-40-65".

ALL CONCRETE MASONRY FOR NOISE BARRIER FOUNDATIONS IS SUBJECT TO THE OMP REQUIREMENTS FOR CLASS II ANCILLARY CONCRETE. PERFORM OMP TESTING OF CONCRETE MASONRY FOR NOISE BARRIER FOUNDATIONS IN ACCORDANCE WITH SECTION 716 OF THE STANDARD SPECIFICATIONS FOR CLASS II ANCILLARY CONCRETE. OMP TESTING IS INCIDENTAL TO THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-40-65".

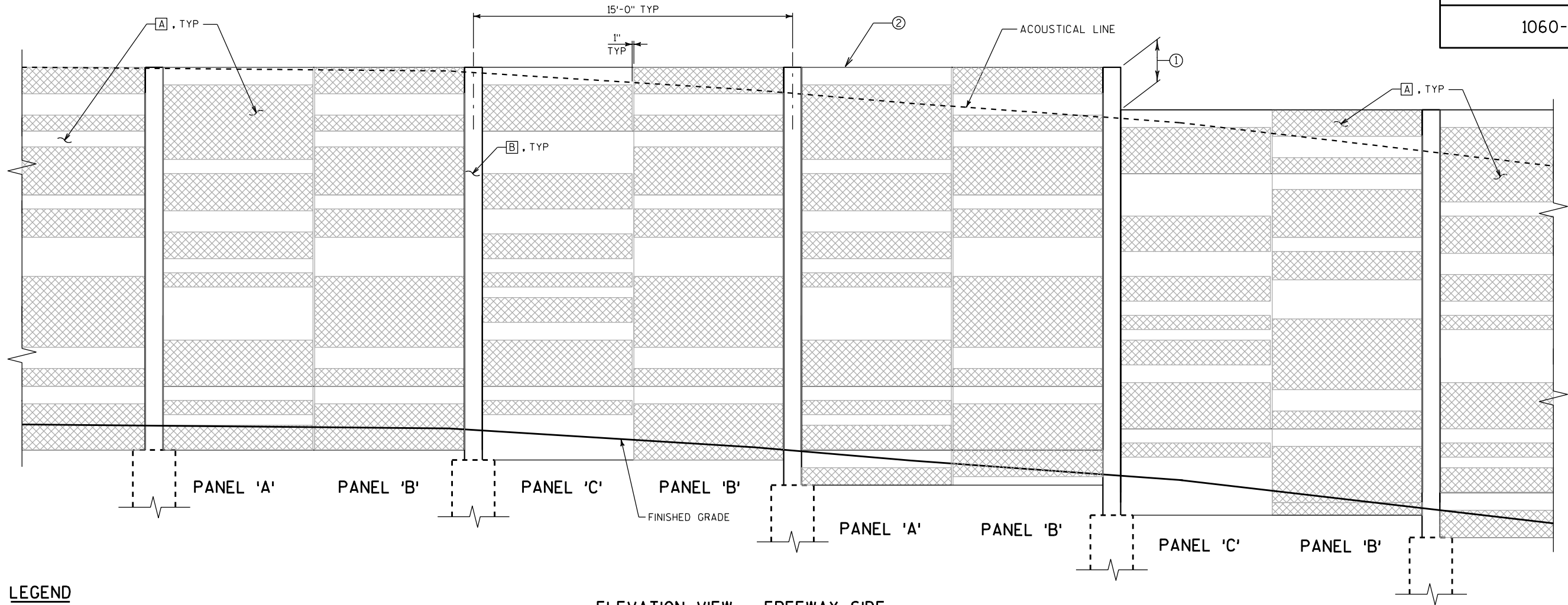
STATE PROJECT NUMBER			
1060-34-88			
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE N-40-65			
DRAWN BY		GLM	PLANS CK'D. KES
QUANTITIES & CONSTRUCTION DETAILS			SHEET 8 OF 13



ELEVATION VIEW - RESIDENTIAL SIDE

- THE FINAL COLORING OF THE NOISE BARRIER FOLLOWING APPLICATION OF THE STAIN SYSTEM SHALL MATCH THE FEDERAL STANDARD COLOR SYSTEM LISTED BELOW:
BASE COLOR - 33564
ACCENT COLOR NO.1 - 33448

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE N-40-65			
DRAWN BY		GLM	PLANS CK'D. KES
AESTHETIC WALL TREATMENT DETAILS RESIDENTIAL SIDE		SHEET 9 OF 13	



LEGEND

[A] BASE COLOR

[B] ACCENT COLOR NO. 1

① STEP PANELS IN INCREMENTS OF 2'-0". STEP INCREMENTS LESS THAN 2'-0" SHALL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.

② ADJUST VERTICAL PLACEMENT OF PANELS TO MAXIMIZE HORIZONTAL RUNS, KEEPING THE TOP OF PANELS AT THE SAME ELEVATION.

③ 0.5 X (POST SPA - POST FLANGE WIDTH - 1")

[] PANEL THICKNESS + 0"

[] PANEL THICKNESS - 3/4" MIN, 1" MAX

STAIN COLORS

THE FINAL COLORING OF THE NOISE BARRIER FOLLOWING APPLICATION OF THE STAIN SYSTEM SHALL MATCH THE FEDERAL STANDARD COLOR SYSTEM LISTED BELOW:

BASE COLOR - 33564

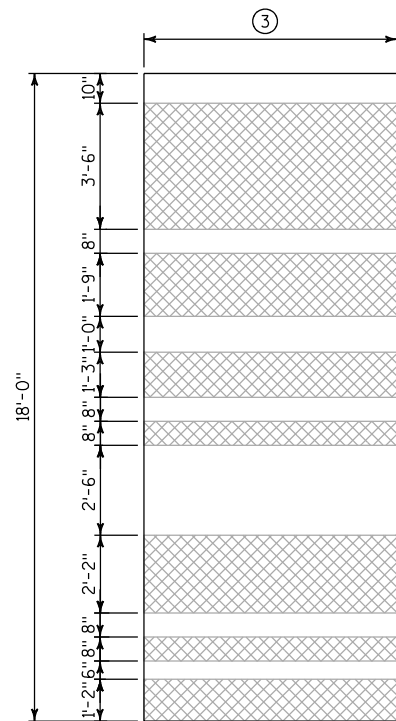
ACCENT COLOR NO. 1 - 33448

NOTES

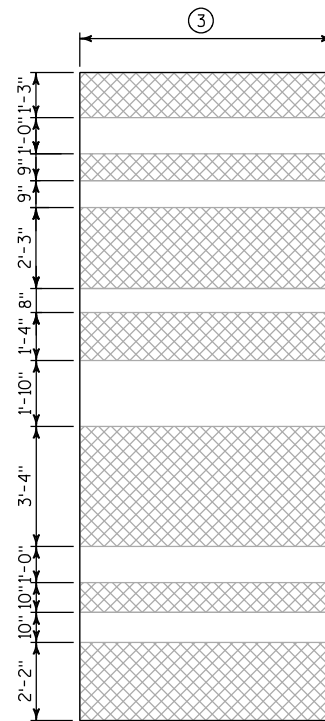
ALTERNATE PANEL PATTERNS AS SHOWN. DO NOT PLACE SAME PATTERN HORIZONTALLY ADJACENT TO EACH OTHER.

THE PATTERNS SHALL REPEAT VERTICALLY STARTING FROM THE TOP OF WALL AND WORKING DOWNWARD IF WALL HEIGHT GREATER 18'-0" IS REQUIRED.

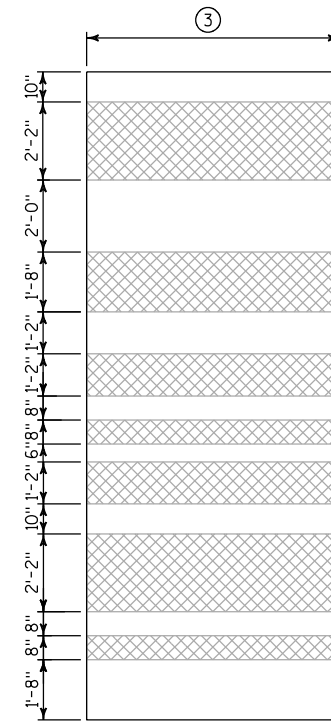
ELEVATION VIEW - FREEWAY SIDE



PANEL 'A' PATTERN

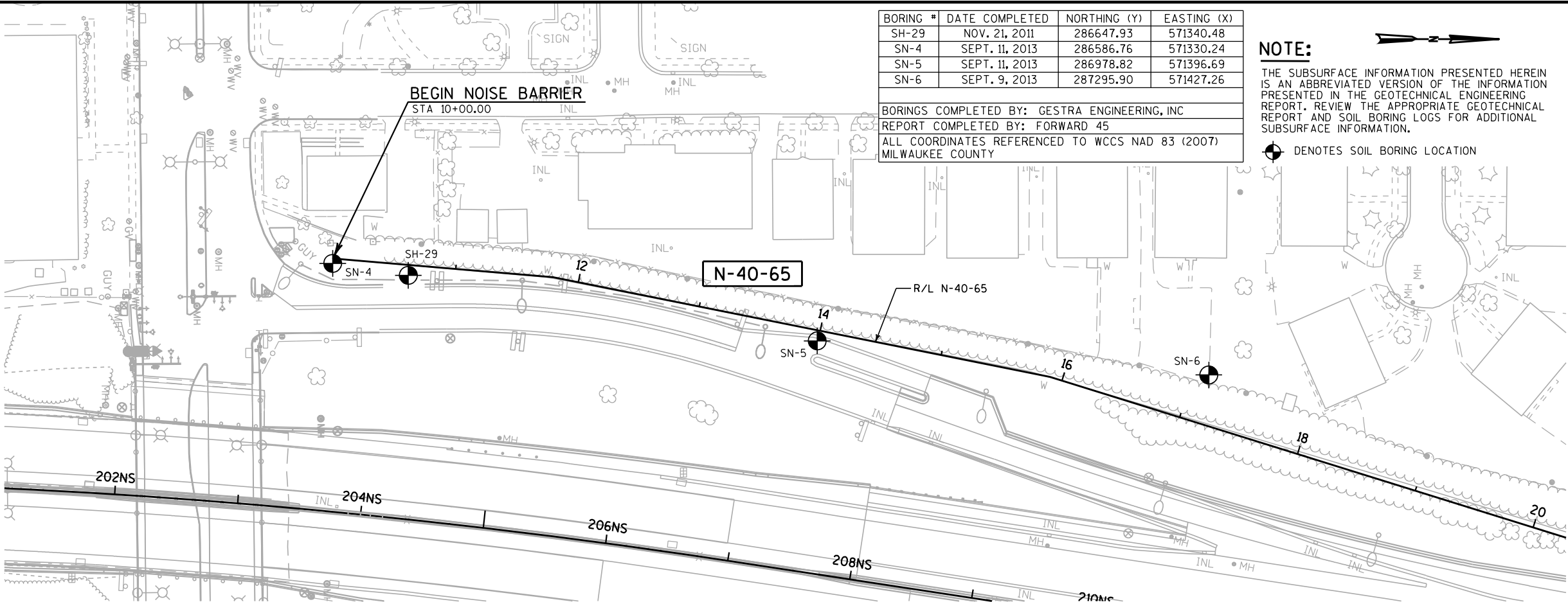


PANEL 'B' PATTERN



PANEL 'C' PATTERN

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE N-40-65			
DRAWN BY		GLM	PLANS CK'D. KES
AESTHETIC WALL TREATMENT DETAILS FREEWAY SIDE			SHEET 10 OF 13



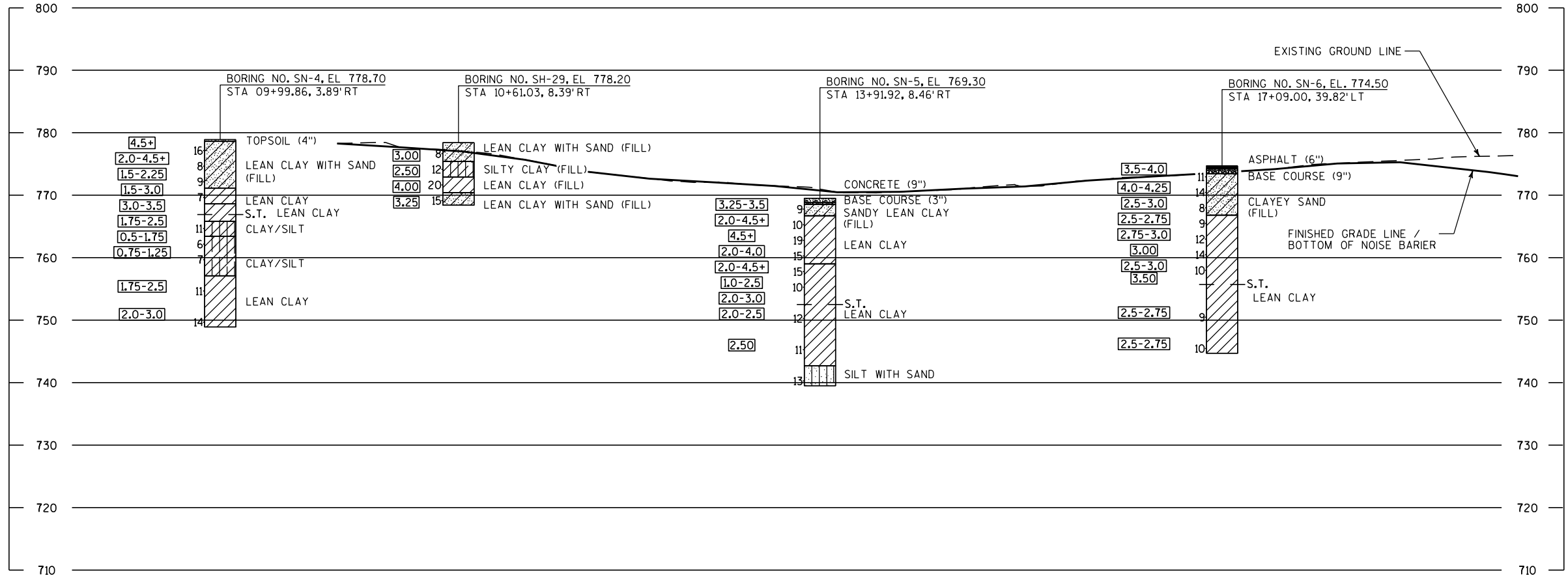
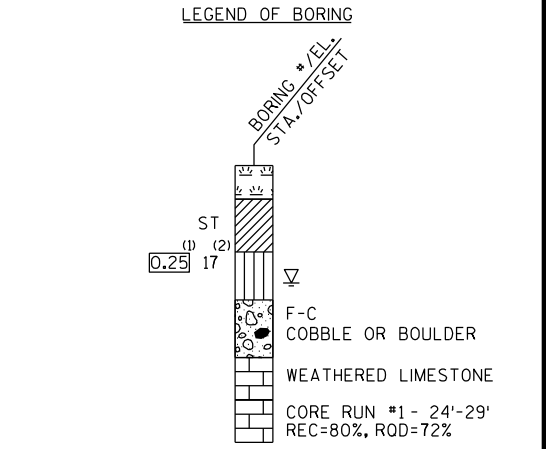
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
SH-29	NOV. 21, 2011	286647.93	571340.48
SN-4	SEPT. 11, 2013	286586.76	571330.24
SN-5	SEPT. 11, 2013	286978.82	571396.69
SN-6	SEPT. 9, 2013	287295.90	571427.26

BORINGS COMPLETED BY: GESTRA ENGINEERING, INC
REPORT COMPLETED BY: FORWARD 45
ALL COORDINATES REFERENCED TO WCCS NAD 83 (2007)
MILWAUKEE COUNTY

NOTE:
THE SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORT. REVIEW THE APPROPRIATE GEOTECHNICAL REPORT AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.

● DENOTES SOIL BORING LOCATION

STATE PROJECT NUMBER		
1060-34-88		
MATERIAL SYMBOLS		
ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/META



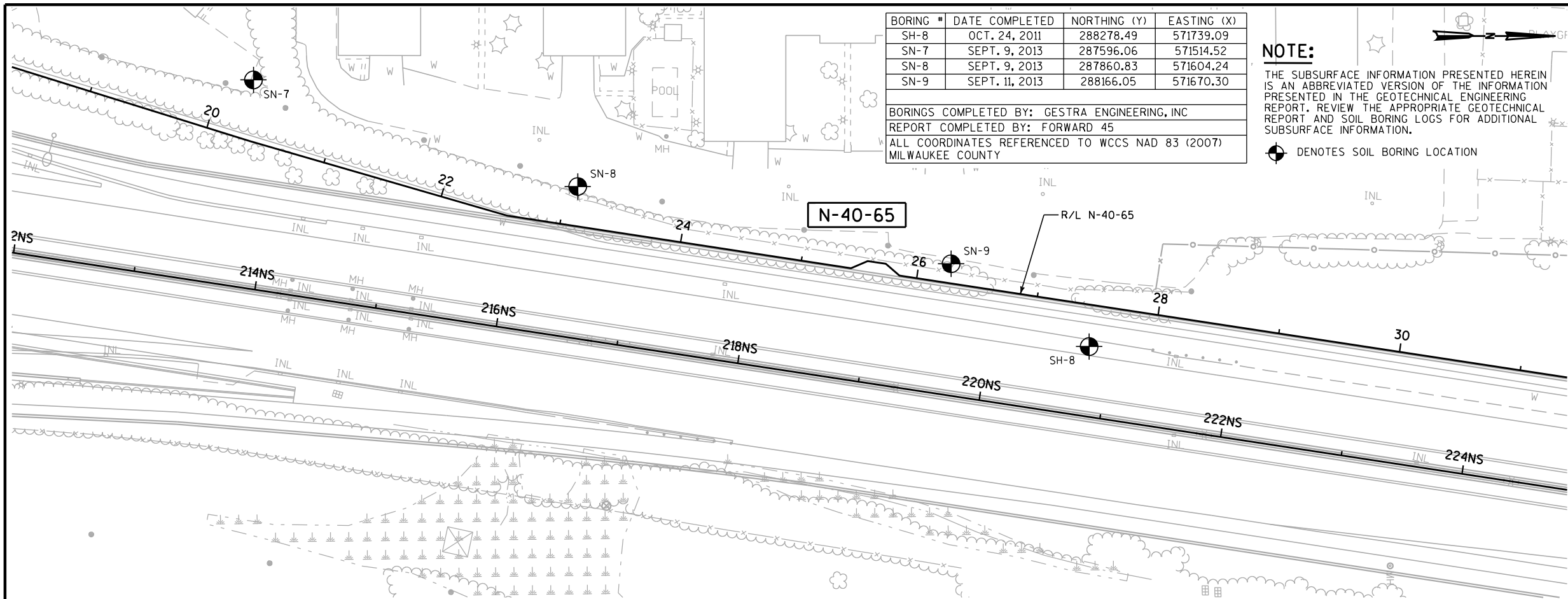
- (1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)
(2) UNLESS OTHERWISE SPECIFIED, THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION			
▽	AT TIME OF DRILLING		
▽	END OF DRILLING		
▽	AFTER DRILLING		
ABBREVIATIONS			
F-FINE	M-MEDIUM	C-COARSE	ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE N-40-65			
DRAWN BY		EKM	PLANS CK'D. KES
SUBSURFACE EXPLORATION (1 OF 3)		SHEET 11 OF 13	



BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
SH-8	OCT. 24, 2011	288278.49	571739.09
SN-7	SEPT. 9, 2013	287596.06	571514.52
SN-8	SEPT. 9, 2013	287860.83	571604.24
SN-9	SEPT. 11, 2013	288166.05	571670.30

BORINGS COMPLETED BY: GESTRA ENGINEERING, INC
REPORT COMPLETED BY: FORWARD 45
ALL COORDINATES REFERENCED TO WCCS NAD 83 (2007)
MILWAUKEE COUNTY

NOTE:

THE SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORT. REVIEW THE APPROPRIATE GEOTECHNICAL REPORT AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.

⊙ DENOTES SOIL BORING LOCATION

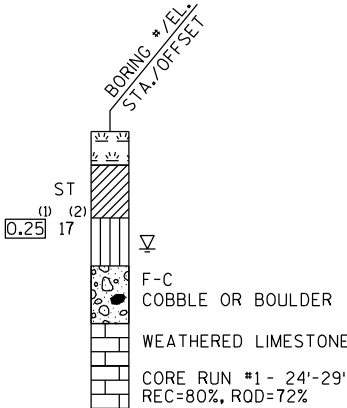
STATE PROJECT NUMBER

1060-34-88

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▽ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

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NO.	DATE	REVISION	BY
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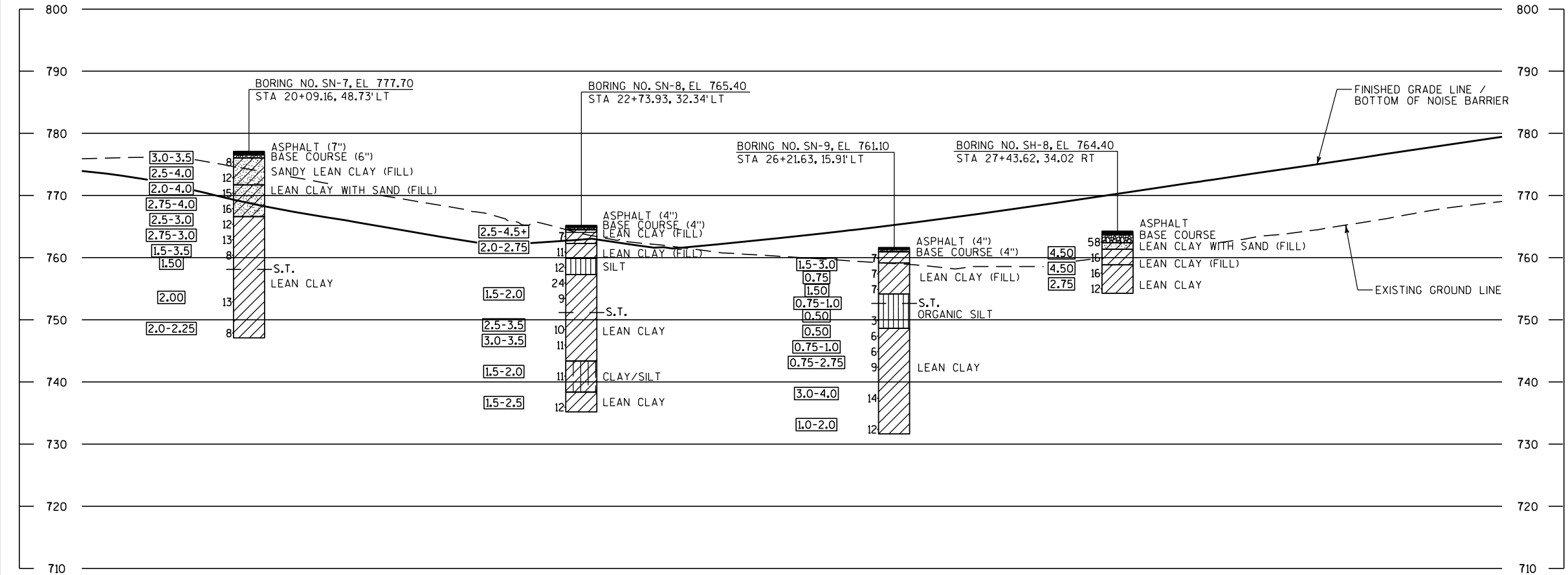
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

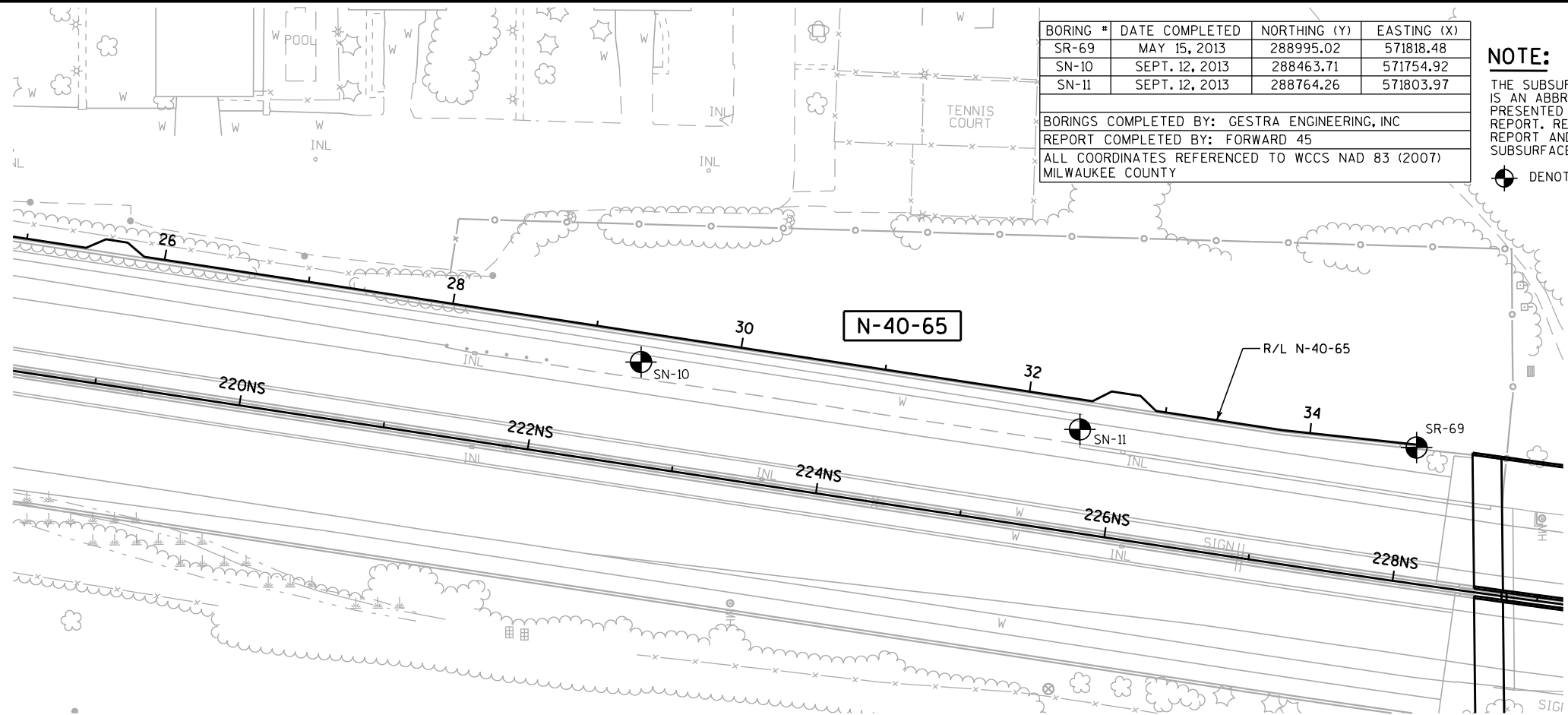
STRUCTURE N-40-65

DRAWN BY EKM PLANS CK'D. KES

SUBSURFACE
EXPLORATION
(2 OF 3)

SHEET 12 OF 13





BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
SR-69	MAY 15, 2013	288995.02	571818.48
SN-10	SEPT. 12, 2013	288463.71	571754.92
SN-11	SEPT. 12, 2013	288764.26	571803.97

BORINGS COMPLETED BY: GESTRA ENGINEERING, INC
REPORT COMPLETED BY: FORWARD 45
ALL COORDINATES REFERENCED TO WCCS NAD 83 (2007)
MILWAUKEE COUNTY

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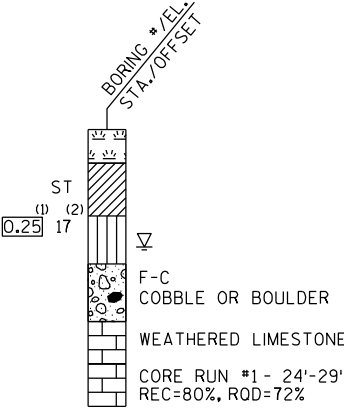
STATE PROJECT NUMBER

1060-34-88

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LEGEND OF BORING



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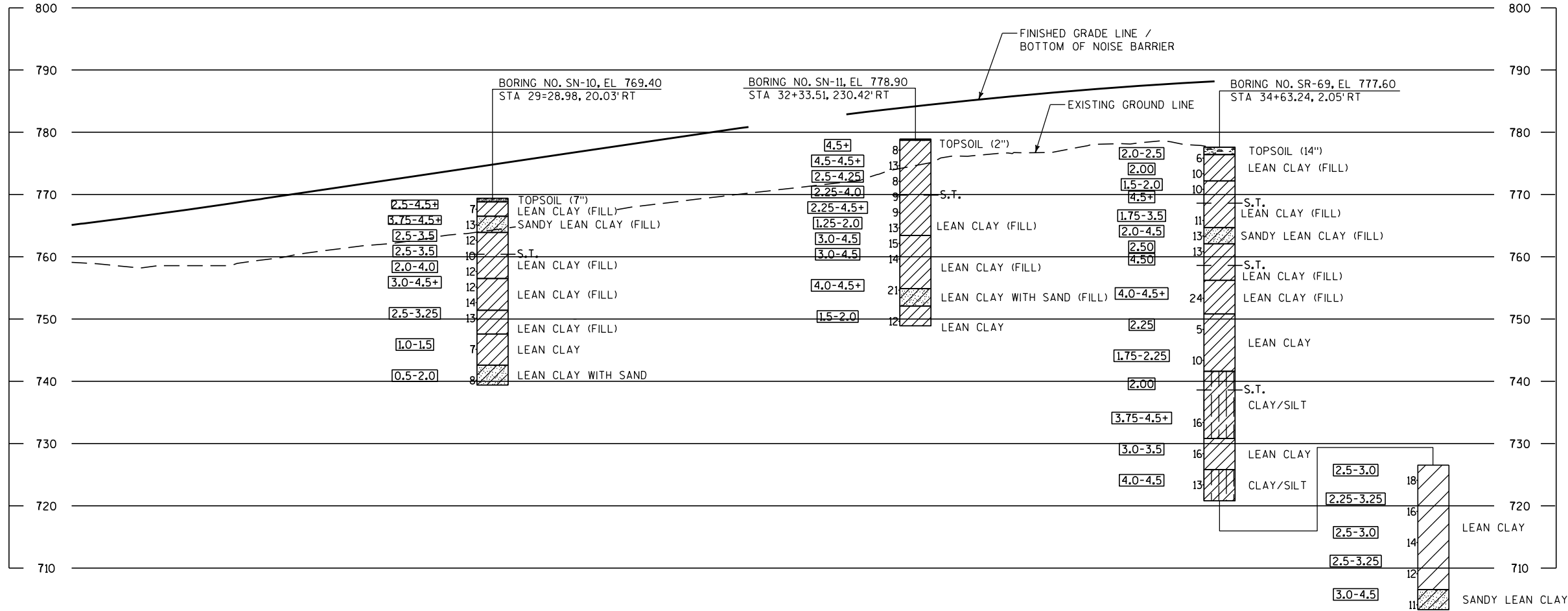
ABBREVIATIONS

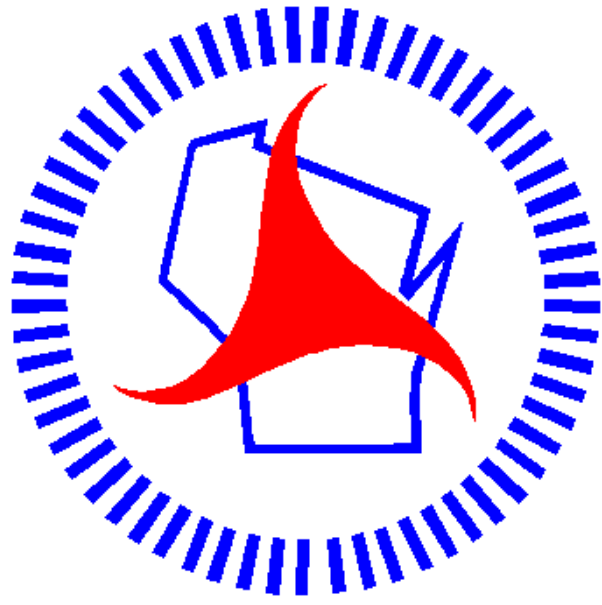
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE N-40-65			
DRAWN BY		EKM	PLANS CK'D. KES
SUBSURFACE EXPLORATION (3 OF 3)		SHEET 13 OF 13	





Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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