

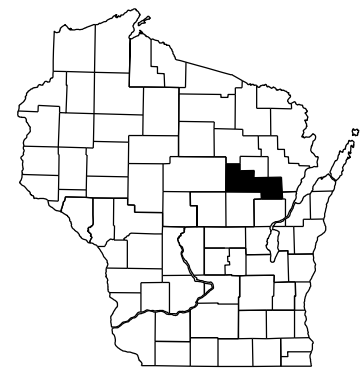
PROJECT ID: 6580-11-60
WITH: 1058-25-70

COUNTY: SHAWANO

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details (Inc. Erosion Contrl)
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 =



DESIGN DESIGNATION

A.A.D.T.	(2017) =	1,800
A.A.D.T.	(2037) =	1,900
D.H.V.	(2037) =	245
D.D.	(2037) =	60/40
T.	(2037) =	9.6%
DESIGN SPEED	=	55 MPH
ESALS	=	N/A

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)	
COMBUSTIBLE FLUIDS	
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	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

BEGIN PROJECT
STA 1+50.00
Y=206,213.94
X=934,222.93



LAYOUT
SCALE 0 1 MI.
TOTAL NET LENGTH OF CENTERLINE = 3,693 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), SHAWANO COUNTY, (NAD 83), 1991 ADJUSTMENT
ALL ELEVATIONS ON THIS PROJECT ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
CLINTONVILLE - HOWARD
STH 55 - STH 29
STH 156
SHAWANO COUNTY

STATE PROJECT NUMBER
6580-11-60

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6580-11-60		

PRELIMINARY

ORIGINAL PLANS PREPARED BY

emcs, inc.

500 North 17th Avenue
Wausau, WI 54401
715.845.1081 Fax 715.845.1099

WISCONSIN
STEPHANIE G. CHRISTENSEN
E35808
WAUSAU, WI
PROFESSIONAL ENGINEER

Stephanie G. Christensen
11-28-2016

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	EMCS, INC.
Designer	EMCS, INC.
Project Manager	JIM VOLKMANN
Regional Examiner	CHERYL SIMON
Regional Supervisor	MIKE WENDT

APPROVED FOR THE DEPARTMENT

DATE: 11/30/2016 *[Signature]*
(Signature)

E

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.

AS-BUILTS USED FOR PLAN DEVELOPMENT

PROJECT NO. 6167-01-71, CONSTRUCTION YEAR 1986

PROJECT NO. 6580-10-70, CONSTRUCTION YEAR 2012

ORDER OF SECTION 2 SHEETS

- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- EROSION CONTROL
- PERMANENT SIGNING
- TRAFFIC CONTROL
- DETOUR

UTILITIES

ATC MANAGEMENT, INC.
(ELECTRIC TRANSMISSION)
GERALD RHODE
801 OKEEFE ROAD
DE PERE, WI 54115
(920) 338-6523
GHRODE@ATCLLC.COM

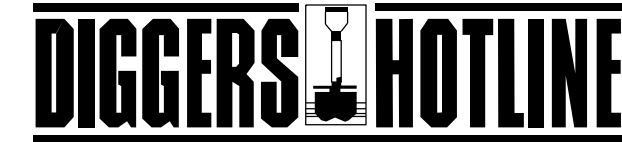
NORTHEAST TELEPHONE COMPANY, LLC
(COMMUNICATIONS)
DENNIS BAER
5475 GLENDALE AVE
GREEN BAY, WI 54313
(920) 865-3162
DENNIS.BAER@NSIGHT.COM

WE ENERGIES
(ELECTRIC DISTRIBUTION)
TOM BRAUN
800 SOUTH LYNDAL DRIVE
APPLETON, WI 54911
(920) 380-3452
(920) 428-3114 (MOBILE)
TOM-B.BRAUN@WE-ENERGIES.COM

CENTURYLINK
(COMMUNICATIONS)
RICK KLUSSENDORF
PO BOX 260
WAUSAUKEE, WI 54177
(715) 856-0051
RICK.KLUSSENDORF@CENTURYLINK.COM

**CENTURYLINK COMMUNICATIONS LLC
FKA QWEST COMMUNICATIONS**
(COMMUNICATIONS)
BOB SAMPSON
1310 EAST MARY STREET
OTTUMWA, IA 52501
(636) 887-5367 (MOBILE)
ROBERT.SAMPSON@CENTURYLINK.COM

WISCONSIN PUBLIC SERVICE CORPORATION
(GAS)
DAVID CZARNECKI
2850 SOUTH ASHLAND AVENUE
PO BOX 19001
GREEN BAY, WI 54304
(920) 617-5132
DFCZARNECKI@WISCONSINPUBLICSERVICE.COM



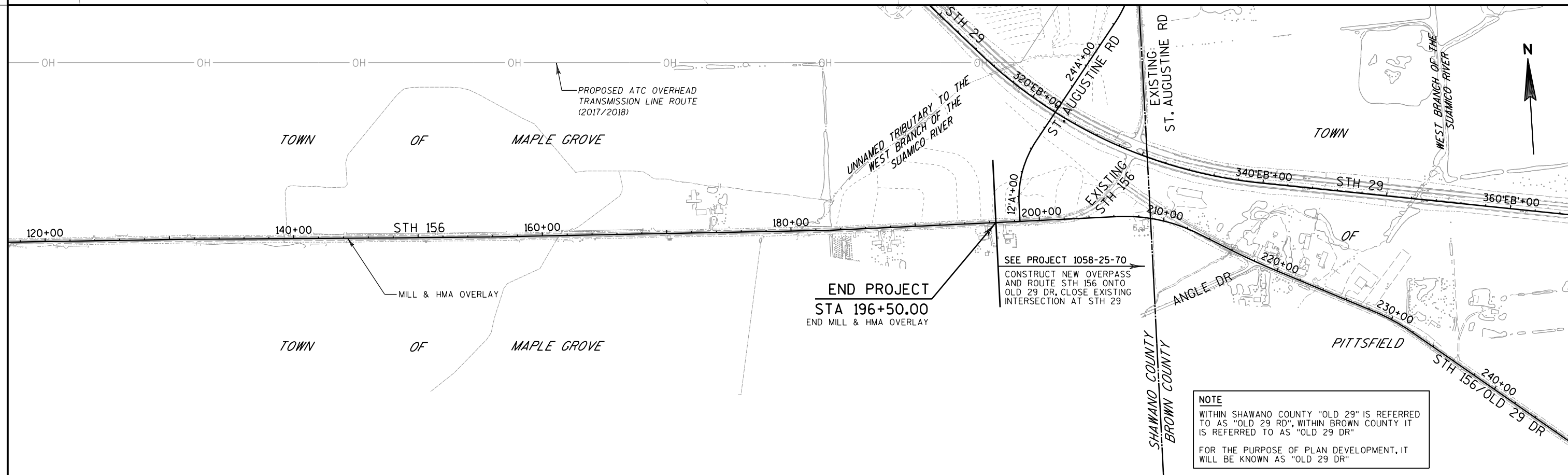
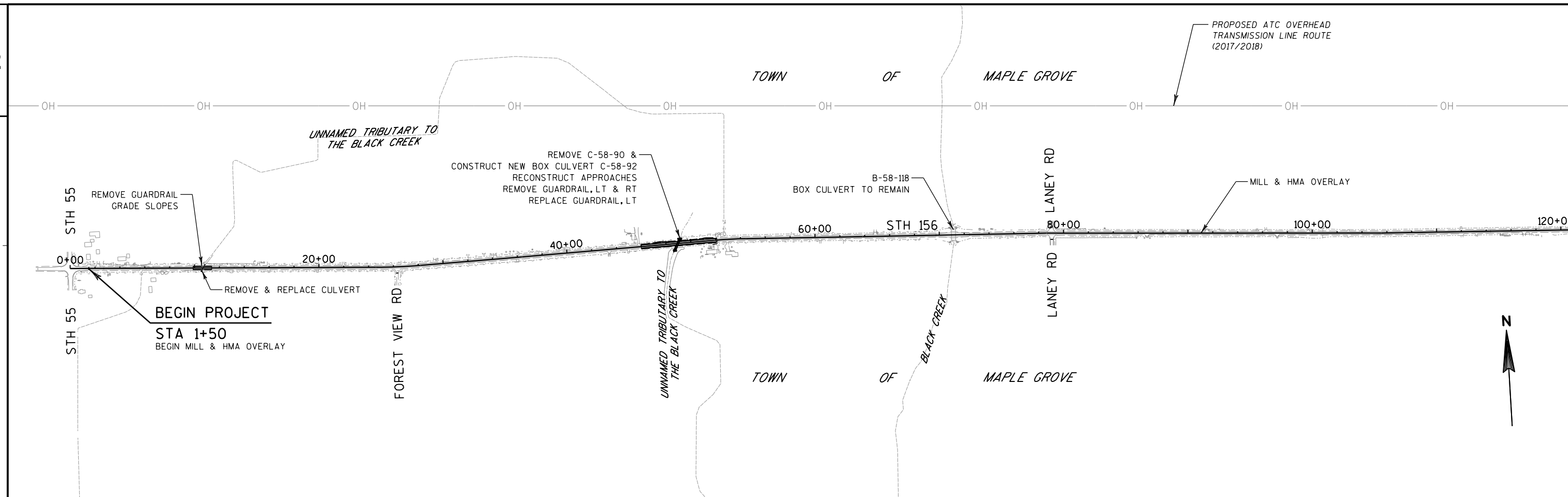
Dial **811** or (800) 242-8511

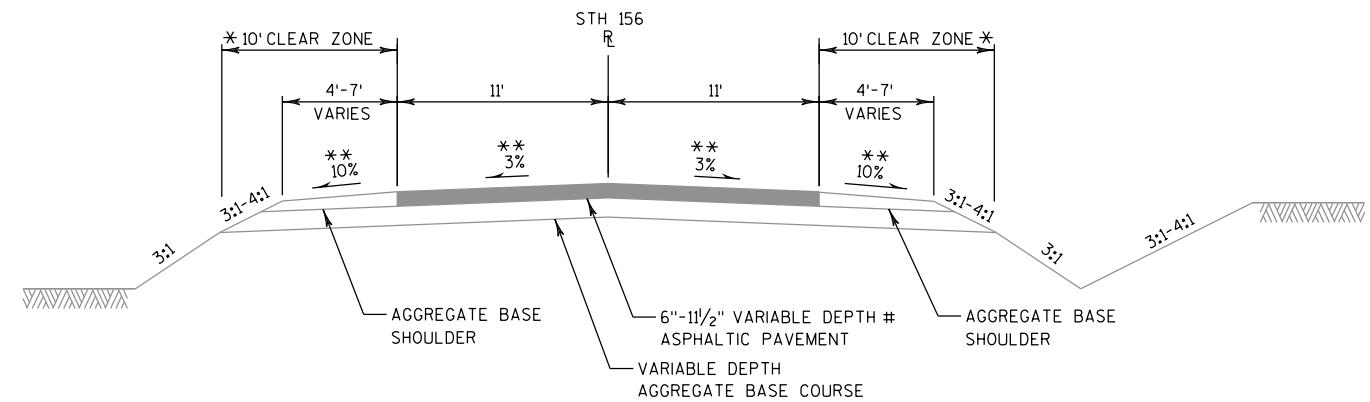
www.DiggersHotline.com

OTHER CONTACTS

DNR LIAISON
JAMES DOPERALSKI JR
2984 SHAWANO AVE
P.O. BOX 10448
GREEN BAY, WI 54307-0448
(920) 662-5119
JAMES.DOPERALSKI@WISCONSIN.GOV

U.S. ARMY CORPS OF ENGINEERS
RYAN HUBER
211 NORTH BROADWAY, SUITE 221
GREEN BAY, WI 54303
(651) 290-5859
RYAN.J.HUBER@USACE.ARMY.MIL

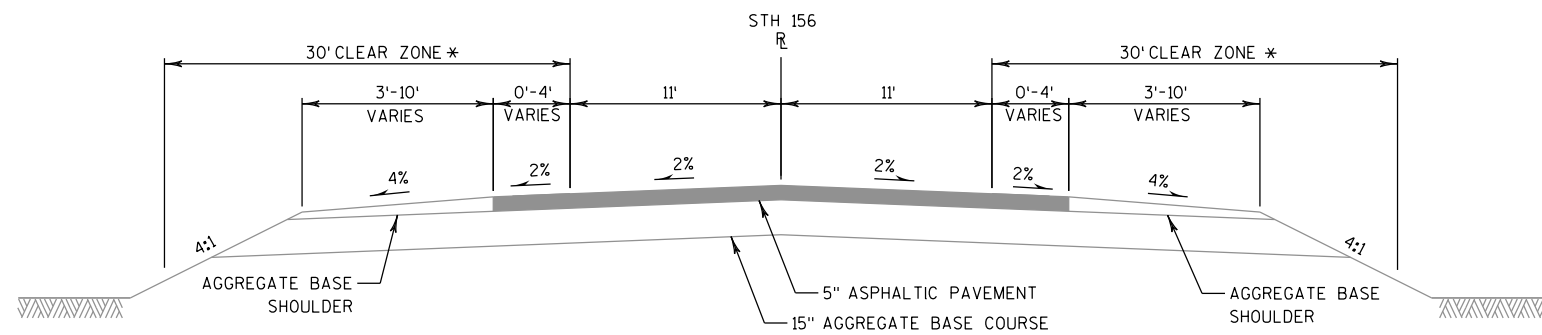




TYPICAL EXISTING SECTION
STH 156
STA 1+50 - STA 69+74
STA 72+44 - STA 196+50

PAVEMENT CORES (2004)

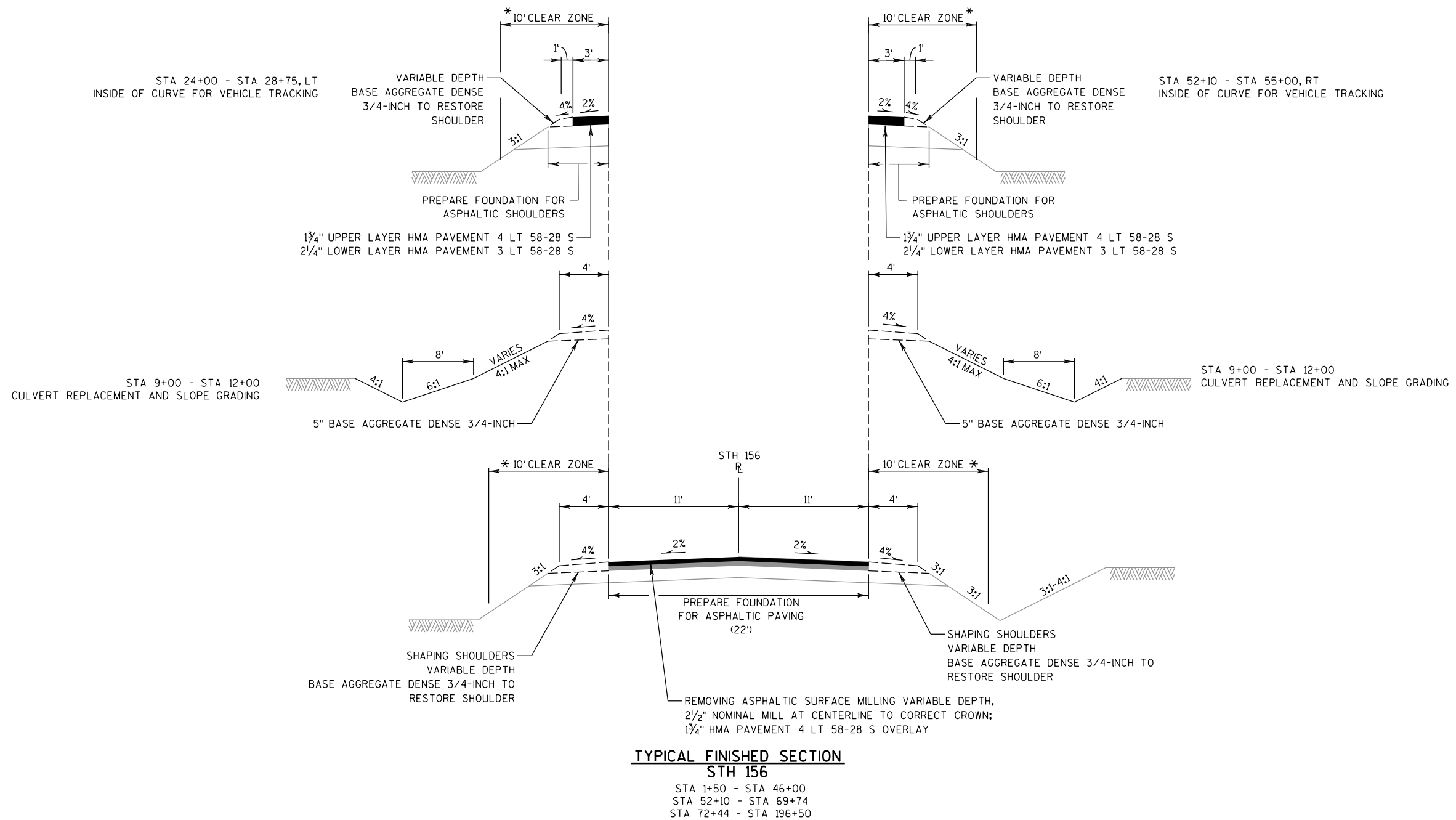
CORE NO.	STATION	LOCATION	ASPH. DEPTH
31	10+56	3' RT	8.5"
32	21+12	3' LT	8.5"
33	31+68	5' RT	9"
34	42+24	5' LT	9"
35	52+80	7' RT	8"
36	63+36	7' LT	6.5"
37	73+92	9' RT	6"
38	84+48	9' LT	8.5"
39	95+04	11' RT	7"
40	105+60	11' LT	6.5"
41	116+16	3' RT	7.5"
42	126+72	3' LT	11"
43	137+28	5' RT	11.5"
44	147+84	5' LT	10.5"
45	158+40	7' RT	9.5"
46	168+96	7' LT	10"
47	179+52	9' RT	10"
48	190+08	9' LT	9.5"



TYPICAL EXISTING SECTION
STH 156
STA 69+74 - STA 72+44

NOTES

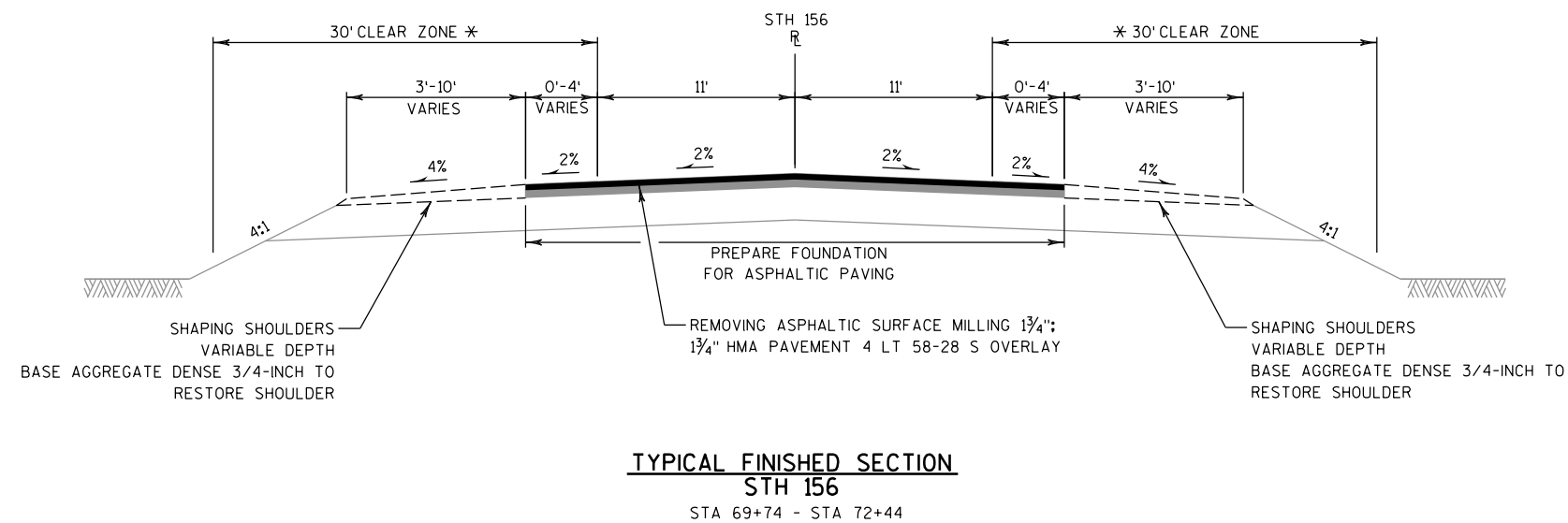
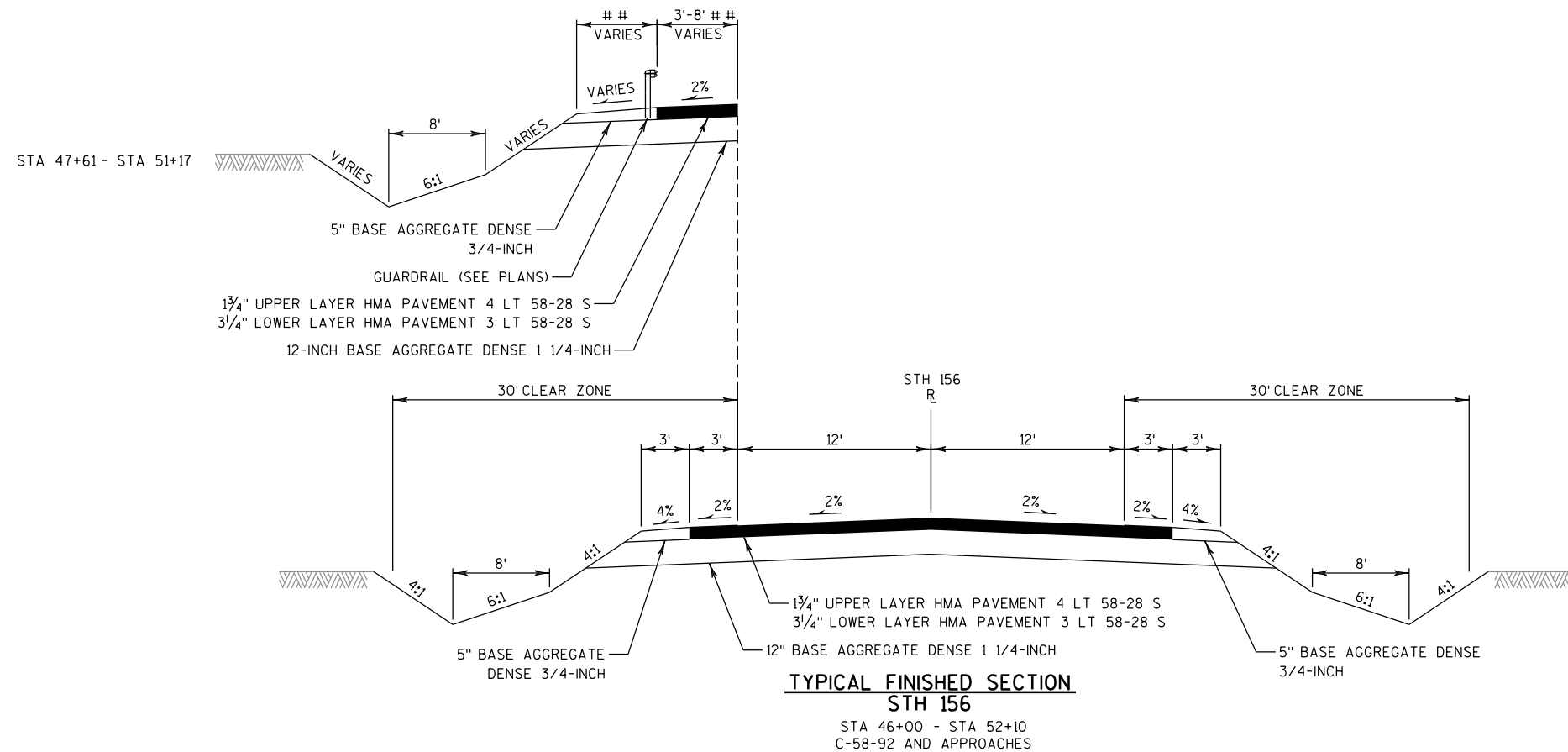
- * CLEAR ZONE AS PREVIOUSLY CONSTRUCTED PER AS BUILTS
- ** CROSS SLOPE VARIES THROUGHOUT PROJECT; AVERAGE CROSS SLOPES SHOWN

**NOTES**

STA 23+56 - STA 29+30, RT AND STA 52+10 - STA 55+63, LT
COMPLETE VARIABLE DEPTH ASPHALTIC WEDGING TO CORRECT
SUPERELEVATIONS AS SHOWN ON SECTION 5 SHEETS

* CLEAR ZONE AS PREVIOUSLY CONSTRUCTED PER AS BUILTS

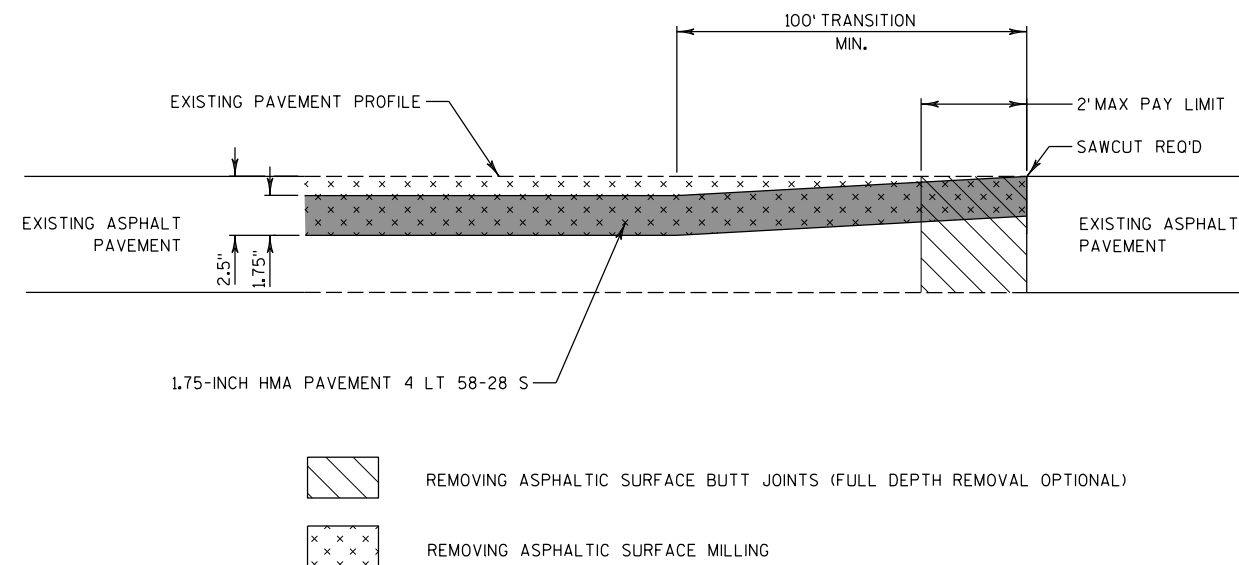
INSTALL SAFETY EDGE PER STANDARD DETAIL DRAWING



NOTES

- * CLEAR ZONE AS PREVIOUSLY CONSTRUCTED PER AS BUILT
- ## SHOULDER VARIES AT GUARDRAIL; SEE SDDS, CONSTRUCTION DETAILS, AND CROSS SECTIONS
- INSTALL SAFETY EDGE PER STANDARD DETAIL DRAWING

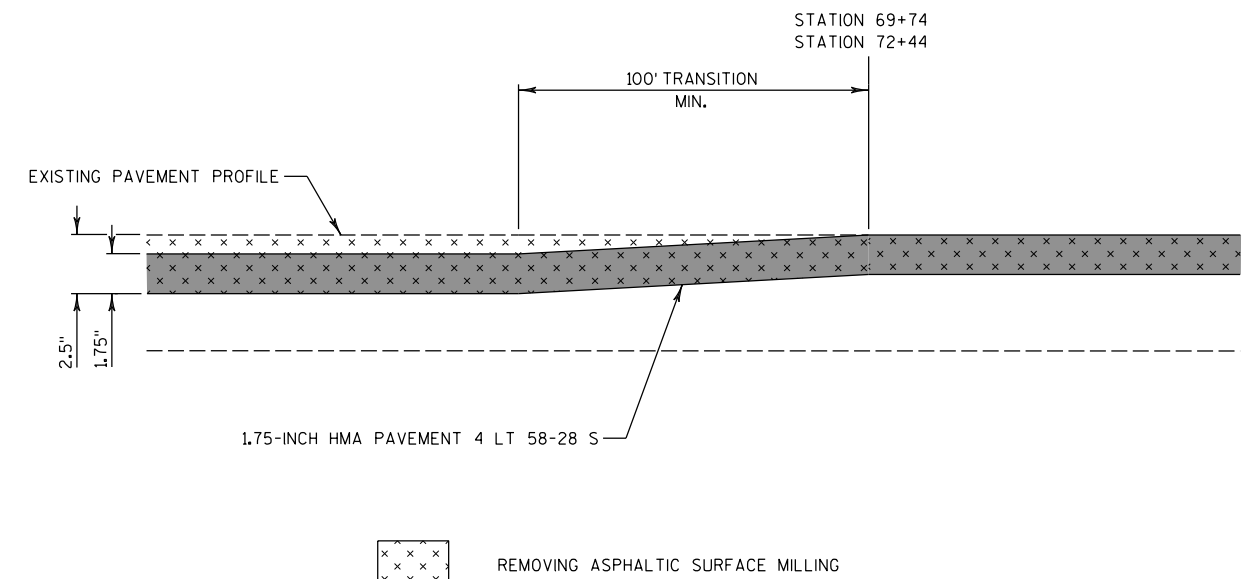
2



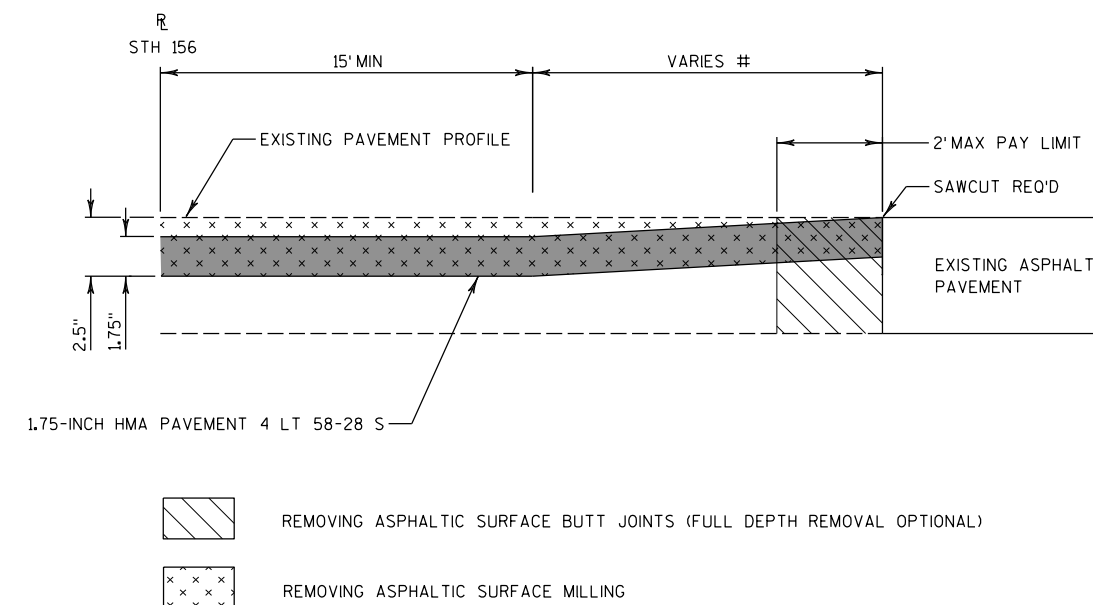
DETAIL OF ASPHALTIC SURFACE BUTT JOINT ON MAINLINE

STATION 1+50

2

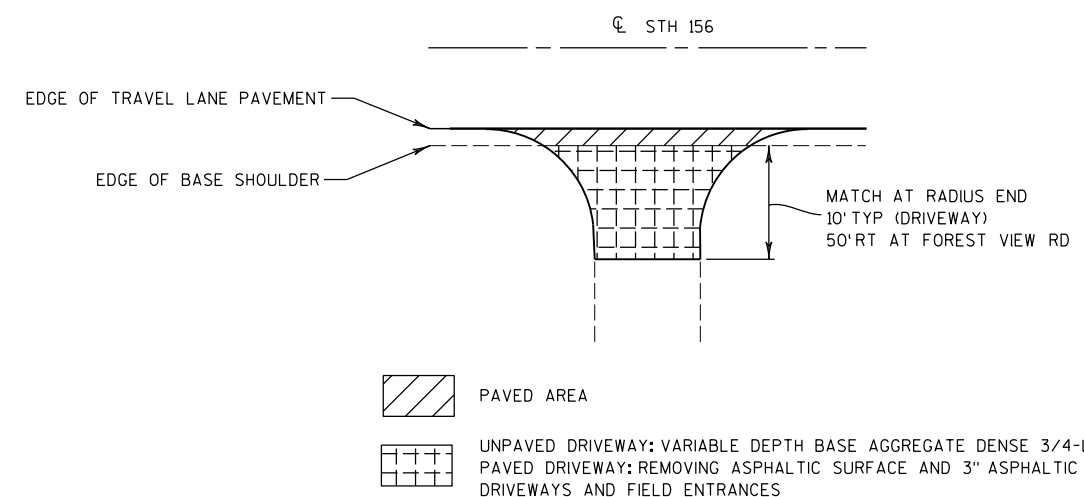


DETAIL OF MAINLINE PROFILE TRANSITION

STATION 69+74
STATION 72+44

ASPHALTIC SURFACE BUTT JOINT DETAIL AT PAVED INTERSECTIONS

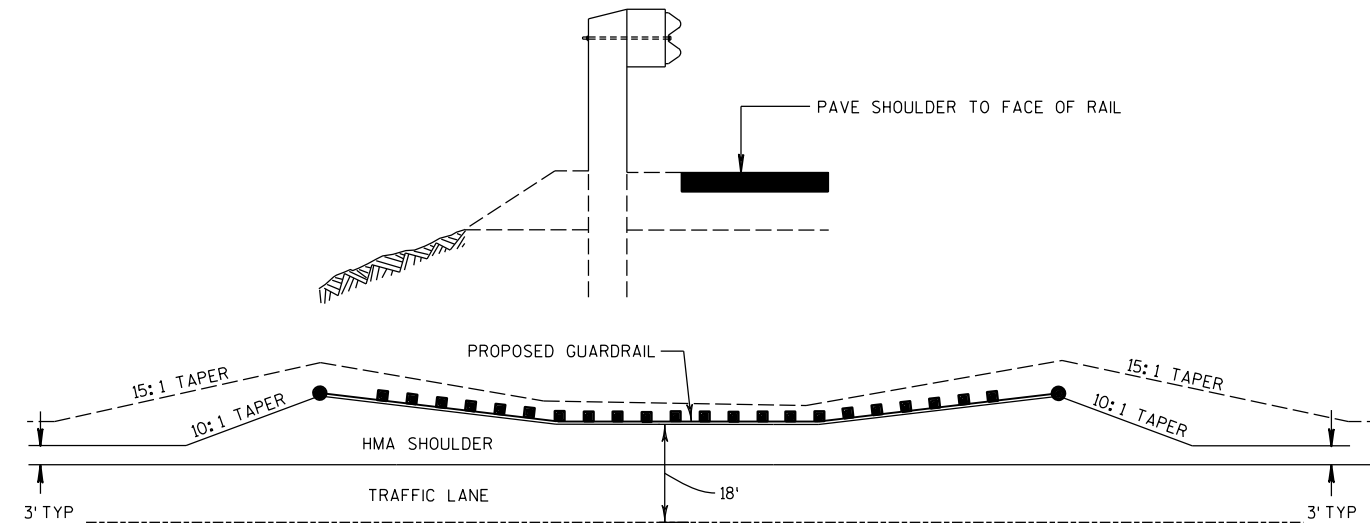
LANEY RD - 50' LT AND 50' RT



MATCH LIMITS AT UNPAVED INTERSECTIONS & UNPAVED AND PAVED DRIVEWAYS DETAIL

FOREST VIEW RD
STH 156 DRIVEWAYS AND FIELD ENTRANCES

2



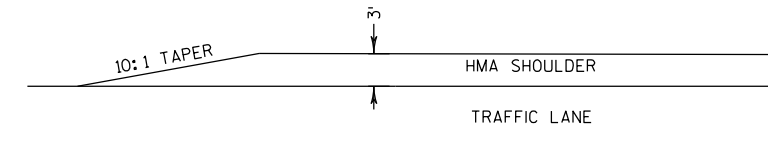
DETAIL FOR ASPHALTIC SHOULDER AT GUARDRAIL

STA 46+00 - STA 52+10, LT
C-58-92 RECONSTRUCTION LIMITS

NOTE

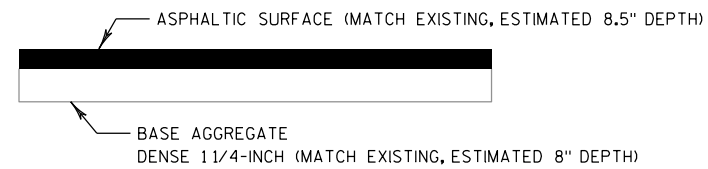
SEE GUARDRAIL SDDS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION

2 |



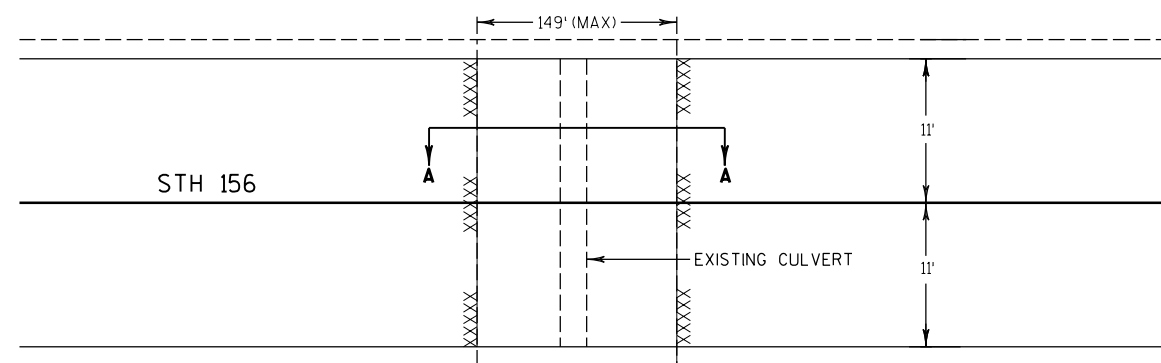
PAVED SHOULDER WIDTH TRANSITION DETAIL

STA 46+00
STA 52+10
STA 69+74
STA 72+44



PAVEMENT STRUCTURE SECTION

XXXXXX = SAWCUT REQ'D

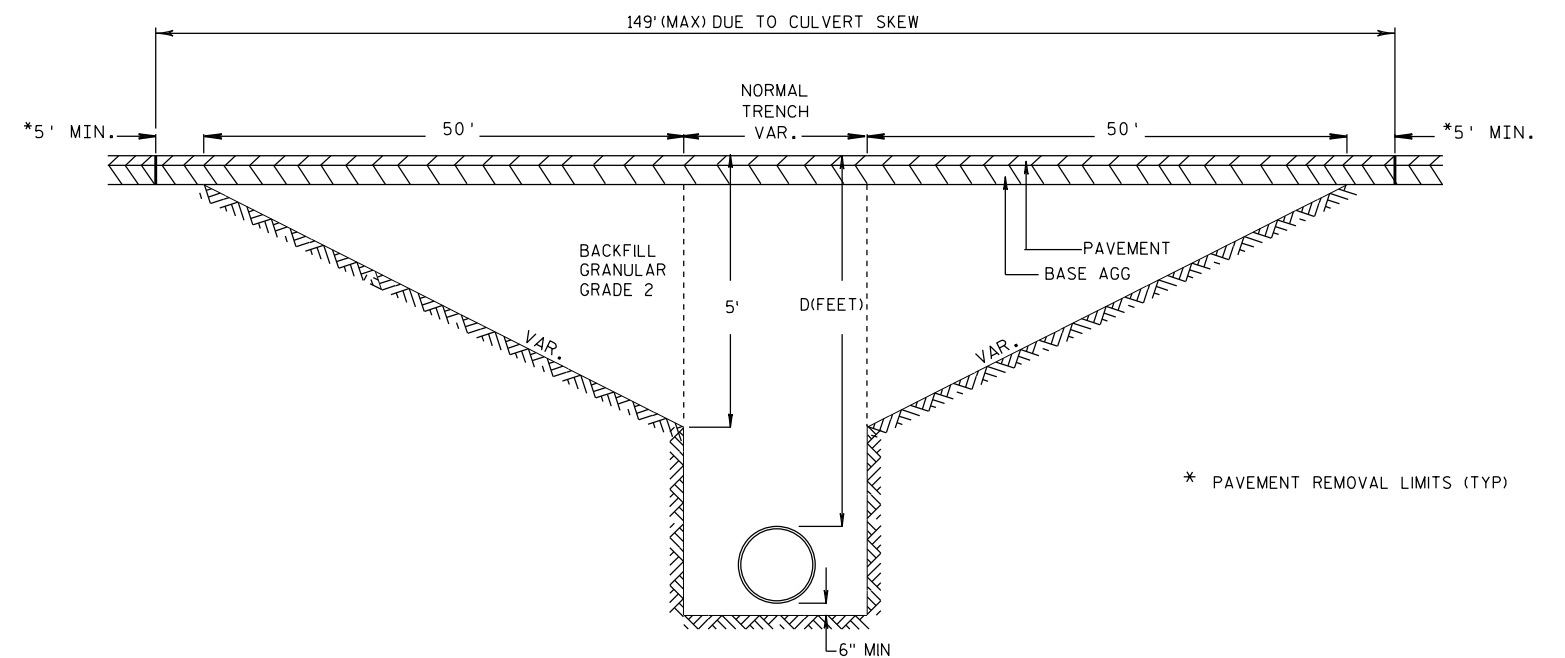


PLAN

PAVEMENT PATCH DETAIL AT CULVERT REPLACEMENT

STA 10+68

REPLACE CULVERT & PATCH PAVEMENT PRIOR TO MAINLINE MILL AND OVERLAY



SECTION A-A

* PAVEMENT REMOVAL LIMITS (TYP)

PROJECT NO: 6580-11-60

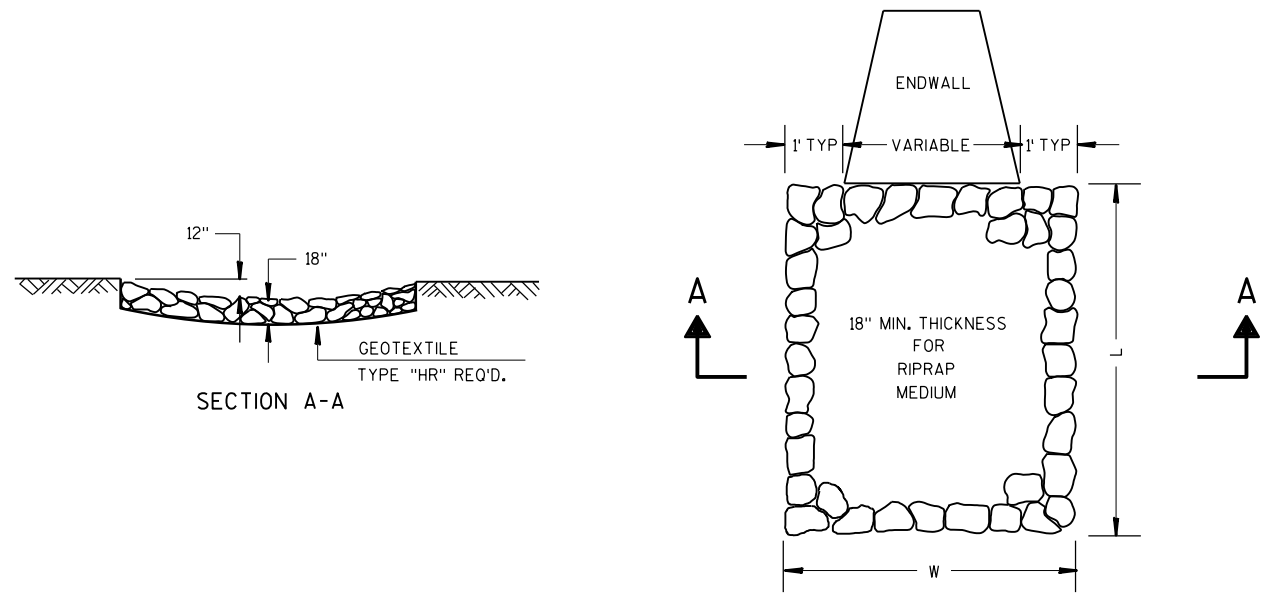
HWY: STH 156

COUNTY: SHAWANO

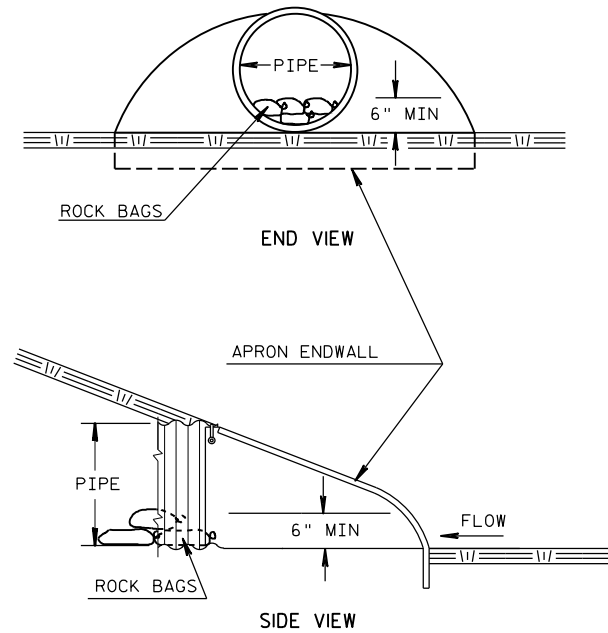
CONSTRUCTION DETAILS

SHEET

E

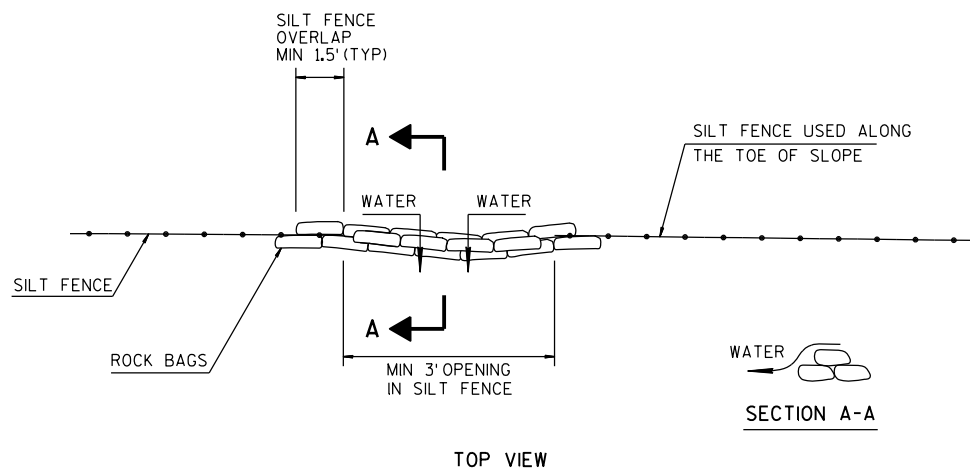


RIPRAP MEDIUM TREATMENT AT CULVERTS
STA 10+85, LT (9'x15')



NOTE
SEE EROSION CONTROL PLANS FOR
ADDITIONAL INFORMATION

CULVERT PIPE CHECKS
INSTALL ON INLET END



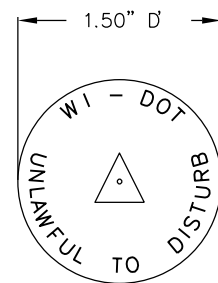
ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL
PAID AS ROCK BAGS

NOTE
SEE EROSION CONTROL PLANS FOR
ADDITIONAL INFORMATION

RUNOFF COEFFICIENT TABLE

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

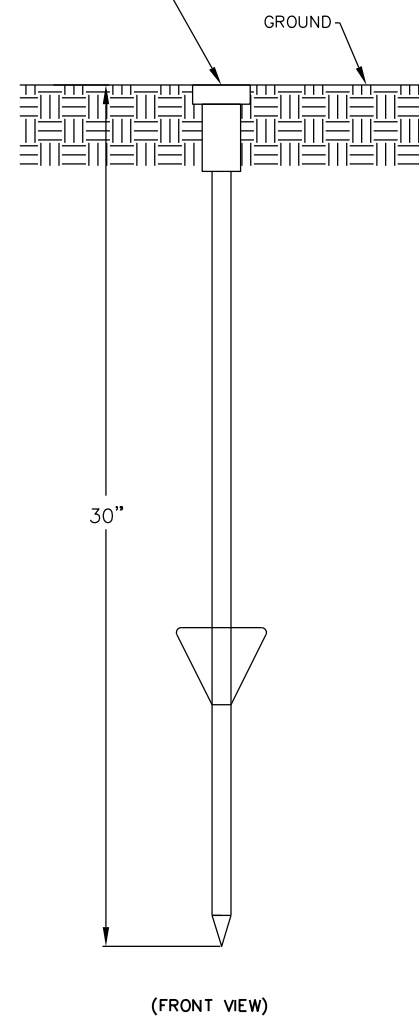
TOTAL PROJECT AREA = 33 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 2 ACRES (GRADING AREA)



② WIS DOT MONUMENT CAP MARKER LOGO (SSDR130)

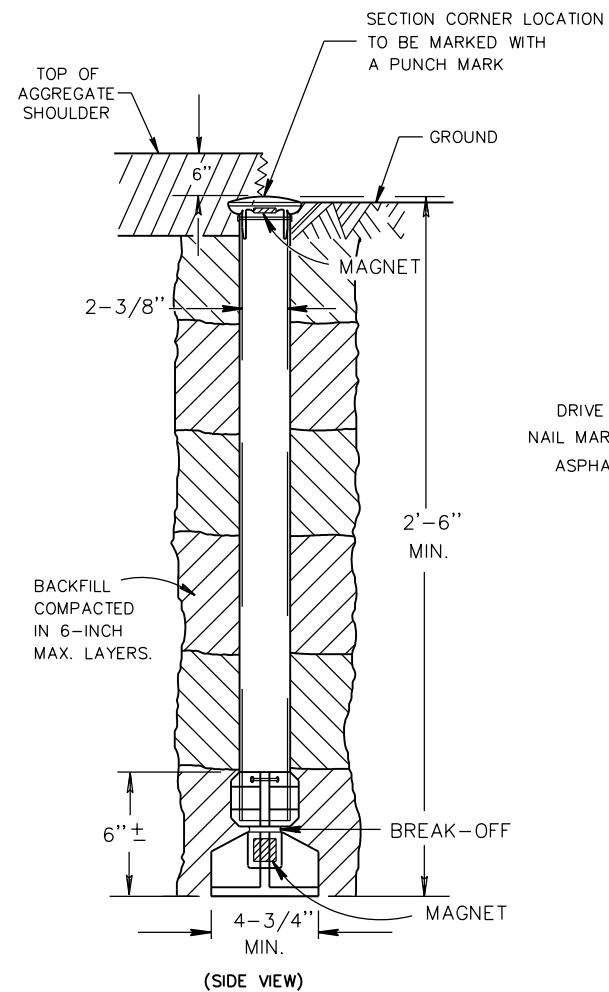
CONTRACTOR TO ORDER LANDMARK REFERENCE MONUMENTS WITH THE ABOVE STAMPING

② MONUMENT MARKER FURNISHED BY CONTRACTOR TO BE FLUSH WITH GROUND SURFACE OR DEPRESSED IN PAVED SURFACE.



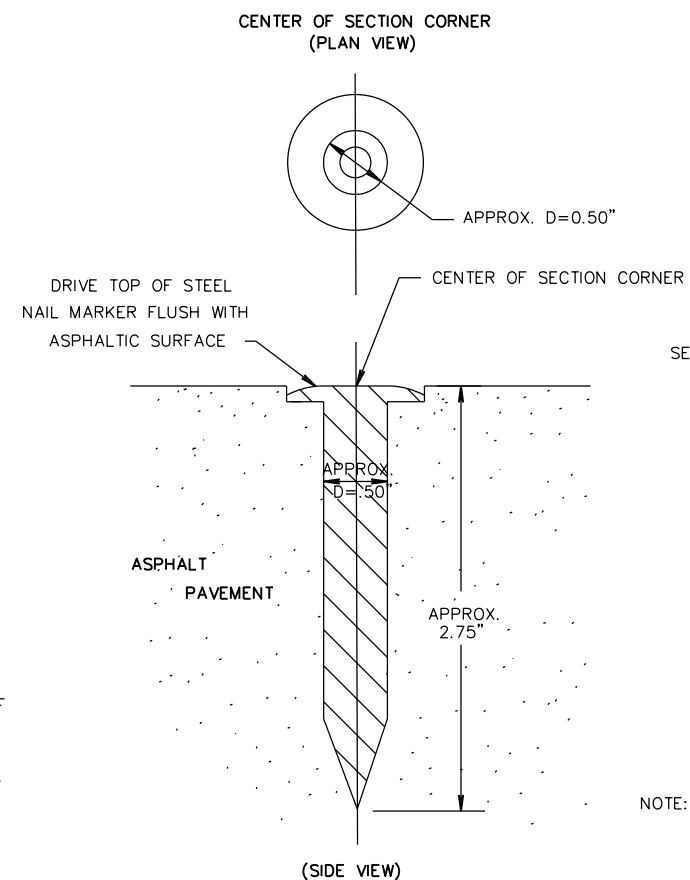
BERNSTEN DRIVABLE MONUMENT SSDR130

LANDMARK REFERENCE MONUMENT (TIES ONLY)



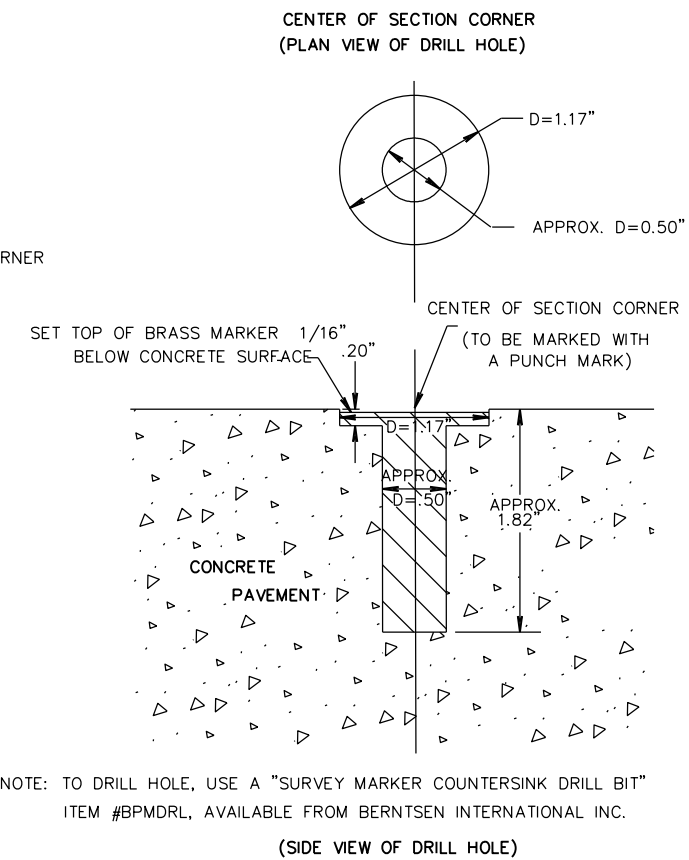
OUTSIDE OF PAVEMENT

① BERNTSEN A1BR30 ALUMINUM BREAK-OFF MONUMENT



IN ASPHALTIC PAVEMENT

① BERNTSEN SNM1 STEEL NAIL MARKER



IN CONCRETE PAVEMENT

① BERNTSEN BP - 1 BRASS MARKER WITH ANCHOR PLUG

NOTE: TO DRILL HOLE, USE A "SURVEY MARKER COUNTERSINK DRILL BIT" ITEM #BPMRDL, AVAILABLE FROM BERNTSEN INTERNATIONAL INC.

SECTION CORNER MONUMENTS

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

LOCATE LANDMARK REFERENCE MONUMENTS OUTSIDE THE CONSTRUCTION LIMITS AND WITHIN WISDOT RIGHT OF WAY, LOCATION TO BE APPROVED BY THE ENGINEER

BACKFILL MAY BE NATIVE MATERIAL, PROPERLY COMPACTED.

① THE REGIONAL SURVEY COORDINATOR WILL SUPPLY

② CONTRACTOR WILL SUPPLY

SECTION CORNER MONUMENT AND LANDMARK REFERENCE MONUMENT DETAIL

NOTES

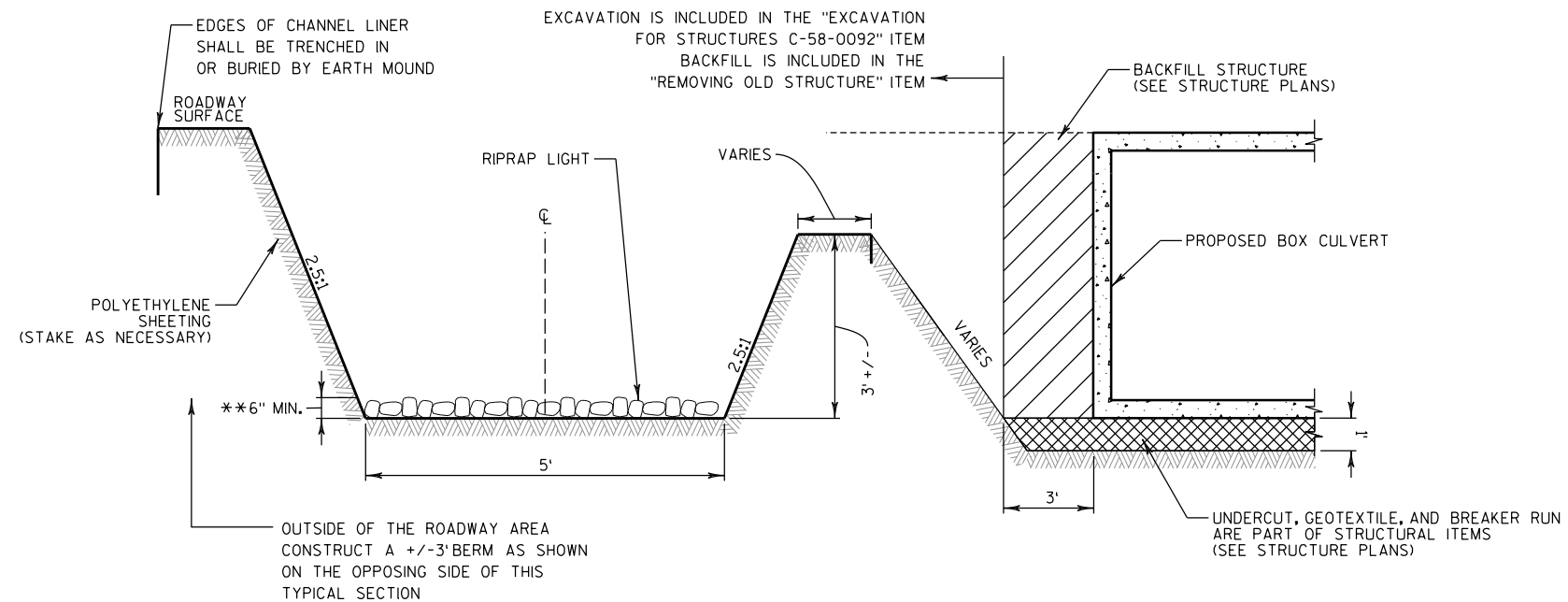
TEMPORARY DIVERSION CHANNEL SHOULD BE CAPABLE OF CARRYING THE Q2 FLOW, WITH A FREEBOARD OF APPROXIMATELY 9 TO 12-INCHES DURING THE CONSTRUCTION PERIOD AND MAINTAIN A SUITABLE DEPTH AND VELOCITY TO ALLOW THE PASSAGE OF MIGRATING FISH AND AQUATIC SPECIES. FISH THAT BECOME STRANDED IN DEWATERED AREAS OR TEMPORARY CHANNELS SHOULD BE CAPTURED AND RETURNED TO THE ACTIVE CHANNEL.

IF PERMANENT RIPRAP CONFLICTS WITH TEMPORARY DIVERSION CHANNEL, PLACE RIPRAP AFTER FLOW HAS BEEN DIVERTED TO NEW CULVERT AND TEMPORARY DIVERSION CHANNEL HAS BEEN BACKFILLED. TEMPORARY SANDBAGS AND STAGING OF RIPRAP PLACEMENT MAY BE REQUIRED.

WORK FOR TEMPORARY DIVERSION CHANNEL AND ANY TEMPORARY SANDBAGS USED AT THE BOX CULVERT OR OTHER DIVERSION TECHNIQUES IMPLEMENTED WILL BE PAID UNDER THE FOLLOWING BID ITEMS:
 - ROADWAY BID ITEMS: "RIPRAP LIGHT" AND "POLYETHYLENE SHEETING".
 - STRUCTURE BID ITEMS: EXCAVATION OF DIVERSION CHANNEL AND TEMPORARY SANDBAGS OR OTHER DIVERSION TECHNIQUES ARE PAID UNDER "EXCAVATION FOR STRUCTURES CULVERTS C-58-0092". BACKFILL OF THE DIVERSION CHANNEL IS PAID UNDER STRUCTURAL BID ITEM "REMOVING OLD STRUCTURE". BACKFILL NEXT TO NEW CULVERT IS PAID UNDER "BACKFILL STRUCTURE". SEE STRUCTURE PLANS FOR ADDITIONAL DETAILS.

C-58-92
 Q2 = 62 CFS
 Q2 ELEVATION = 852.42 AT BOX CULVERT
 Q2 DEPTH = 1.8-FEET (AVG)
 ESTIMATED EXCAVATION VOLUME FOR TEMPORARY DIVERSION CHANNEL = 500 CY (FOR INFORMATION ONLY)

USE AVAILABLE EROSION CONTROL ITEMS IN THE CONTRACT TO IMPLEMENT ANY ADDITIONAL EROSION CONTROL ITEMS NECESSARY TO STABILIZE THE SITE DURING CONSTRUCTION OF THE BOX CULVERT.



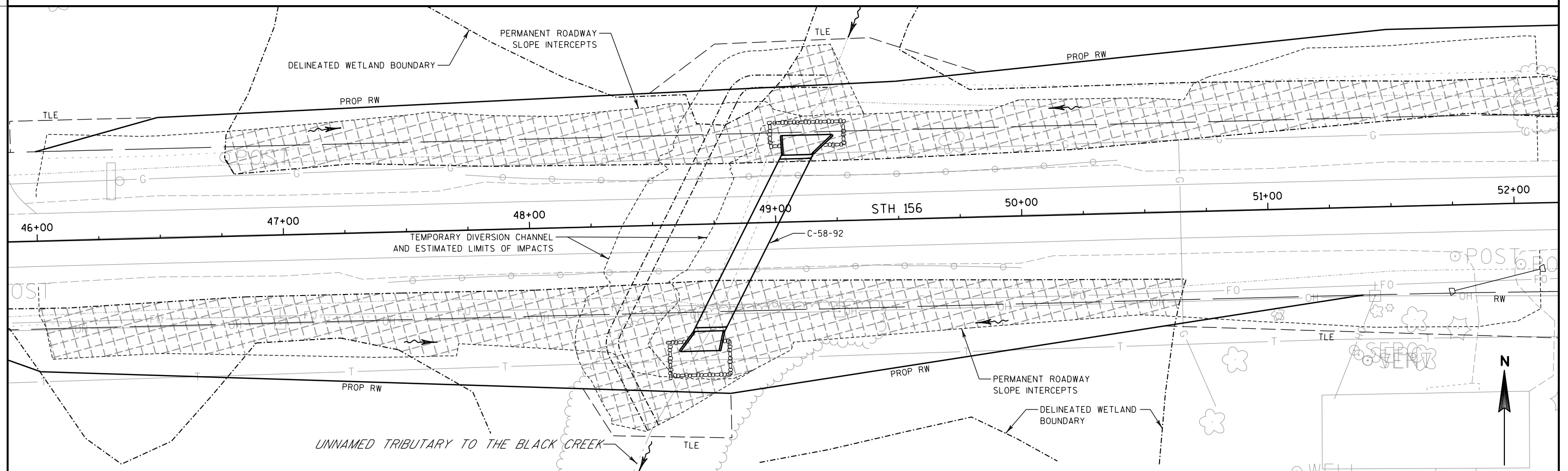
TYPICAL SECTION OF TEMPORARY DIVERSION CHANNEL

C-58-92



PERMITTED WETLAND IMPACTS

** INCREASE HEIGHT OF LIGHT RIPRAP UP SIDES OF CHANNEL ON TIGHT CORNERS, AS REQUIRED, TO MINIMIZE EROSION AND STABILIZE POLYETHYLENE SHEETING



PROJECT NO: 6580-11-60

HWY: STH 156

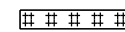
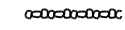
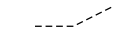
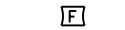
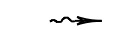
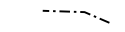
COUNTY: SHAWANO

CONSTRUCTION DETAILS-TEMPORARY DIVERSION (C-58-92)

SHEET

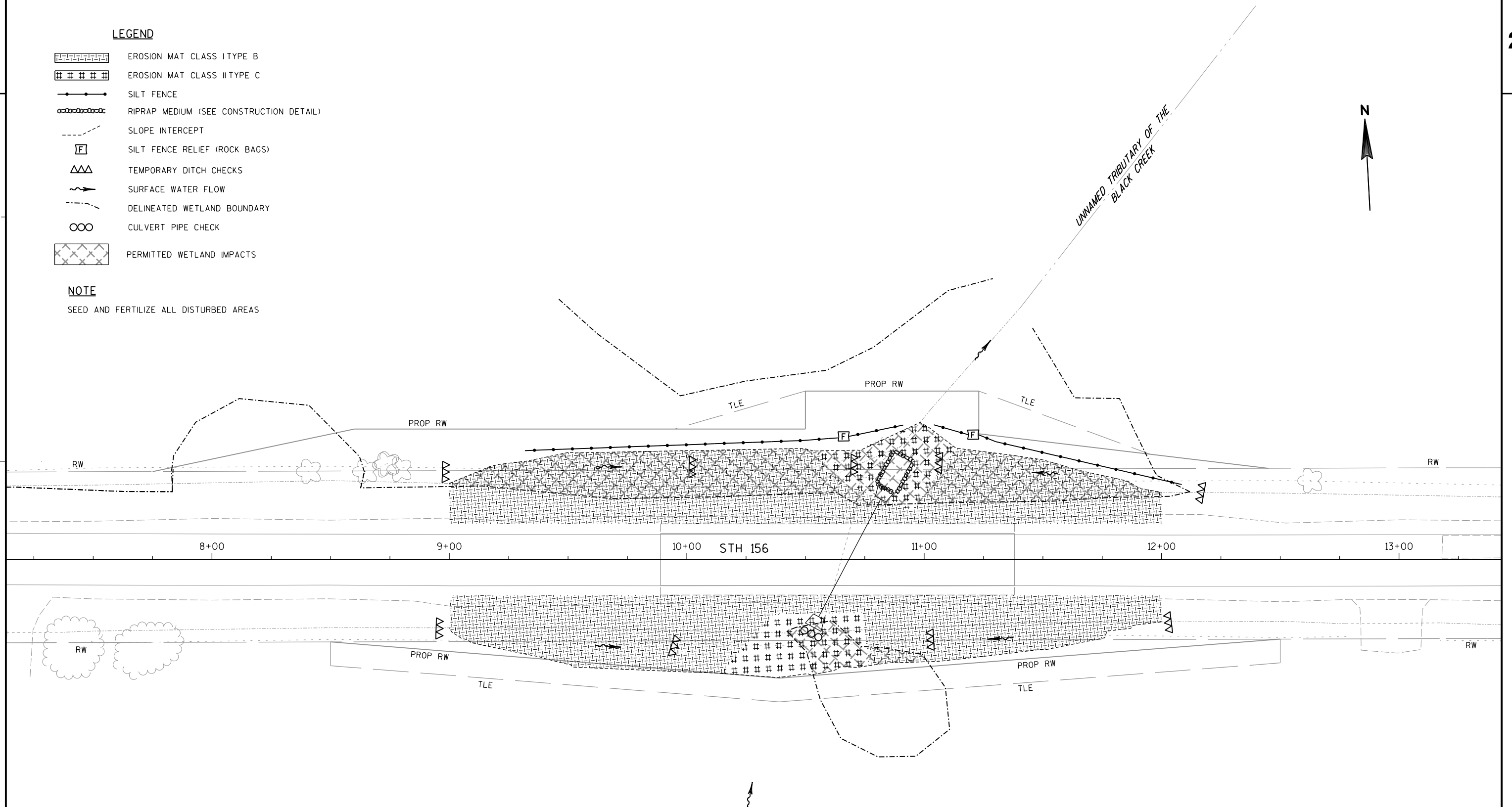
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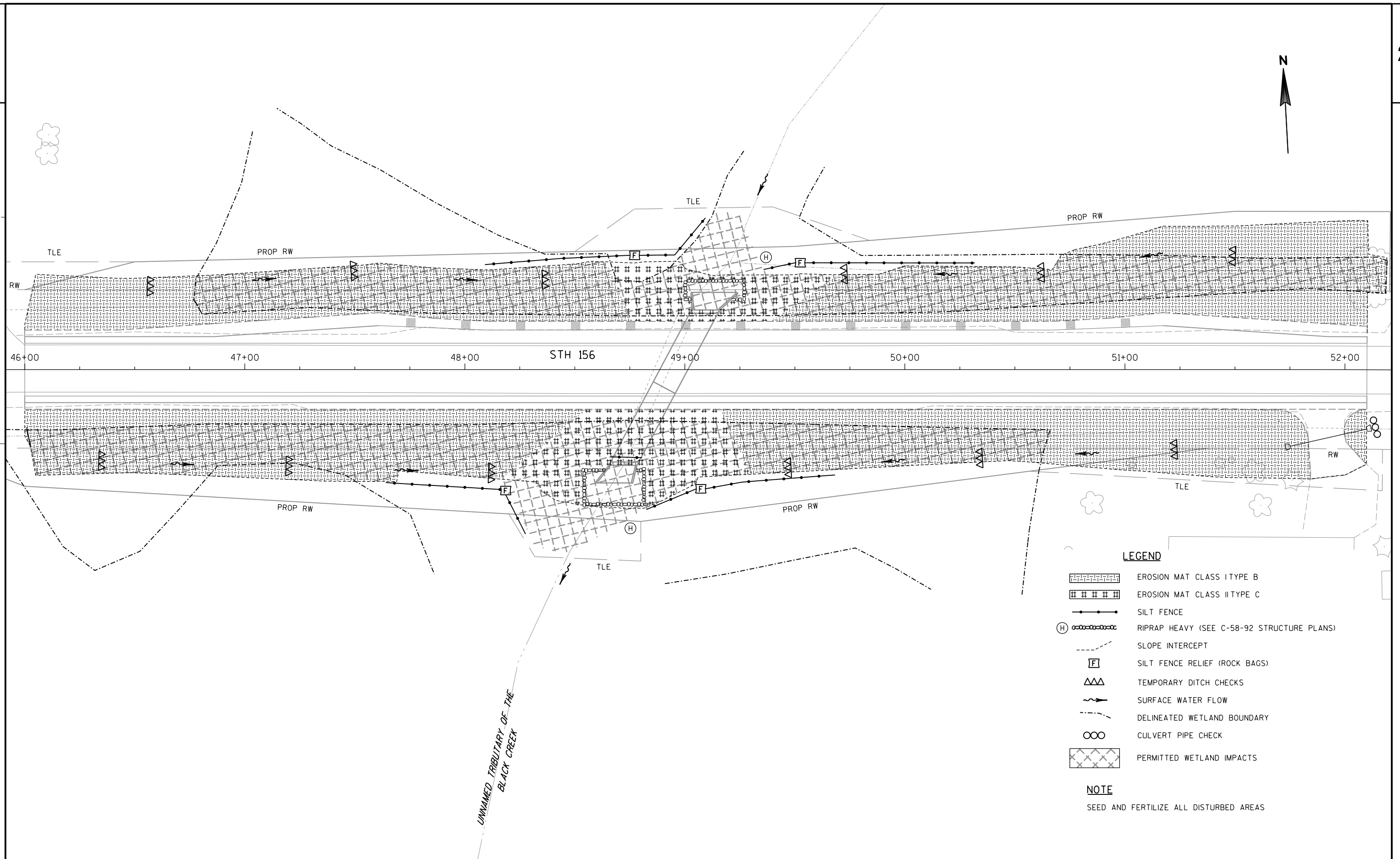
LEGEND

	EROSION MAT CLASS I TYPE B
	EROSION MAT CLASS II TYPE C
	SILT FENCE
	RIPRAP MEDIUM (SEE CONSTRUCTION DETAIL)
	SLOPE INTERCEPT
	SILT FENCE RELIEF (ROCK BAGS)
	TEMPORARY DITCH CHECKS
	SURFACE WATER FLOW
	DELINEATED WETLAND BOUNDARY
	CULVERT PIPE CHECK
	PERMITTED WETLAND IMPACTS

NOTE

SEED AND FERTILIZE ALL DISTURBED AREAS





LEGEND

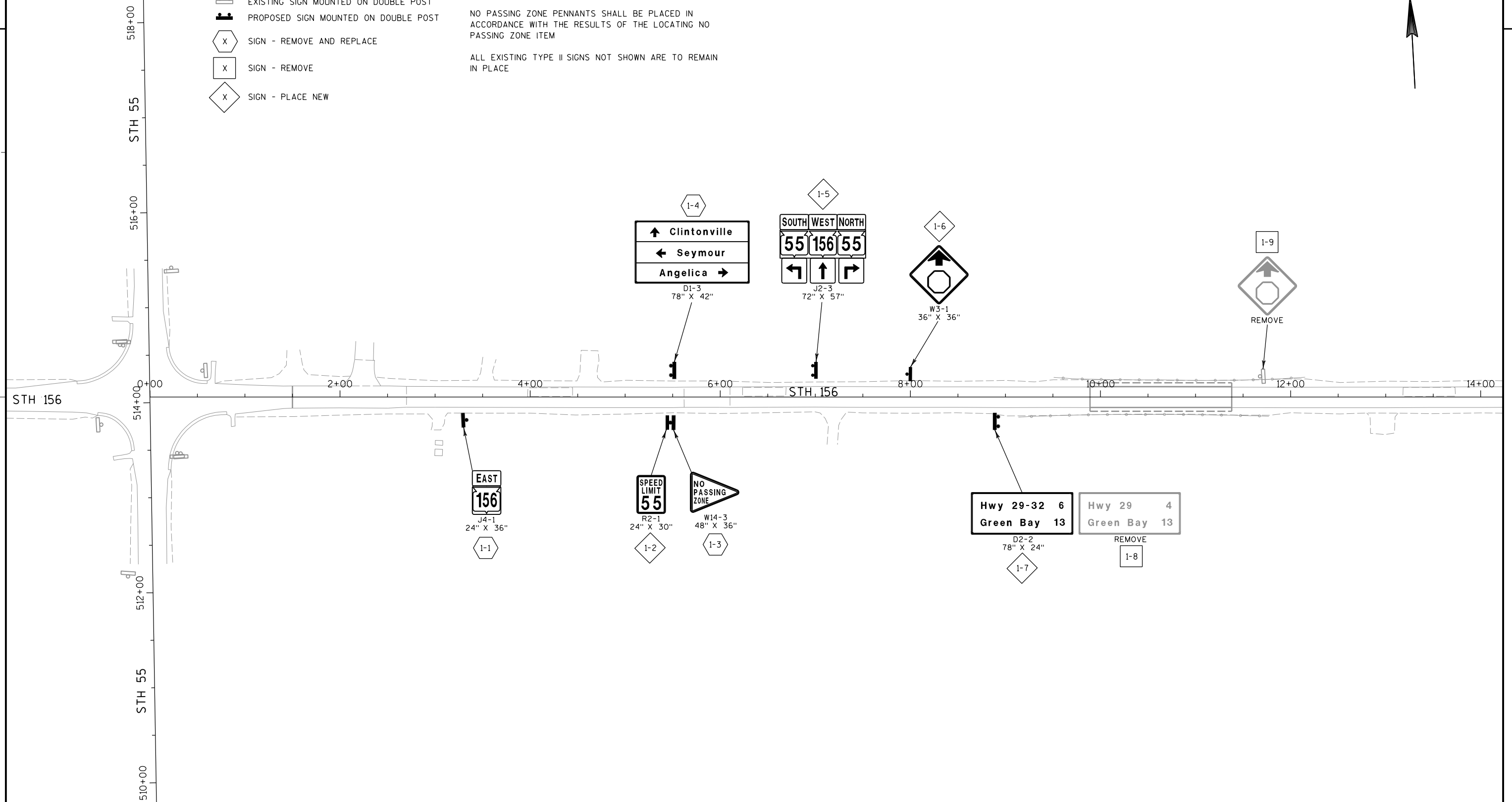
-  EXISTING SIGN MOUNTED ON SINGLE POST
 PROPOSED SIGN MOUNTED ON SINGLE POST
 EXISTING SIGN MOUNTED ON DOUBLE POST
 PROPOSED SIGN MOUNTED ON DOUBLE POST
 SIGN - REMOVE AND REPLACE
 SIGN - REMOVE
 SIGN - PLACE NEW

NOTES

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE PLACED IN ACCORDANCE TO DETAILS AND THE MUTCD

NO PASSING ZONE PENNANTS SHALL BE PLACED IN ACCORDANCE WITH THE RESULTS OF THE LOCATING NO PASSING ZONE ITEM

ALL EXISTING TYPE II SIGNS NOT SHOWN ARE TO REMAIN IN PLACE



LEGEND

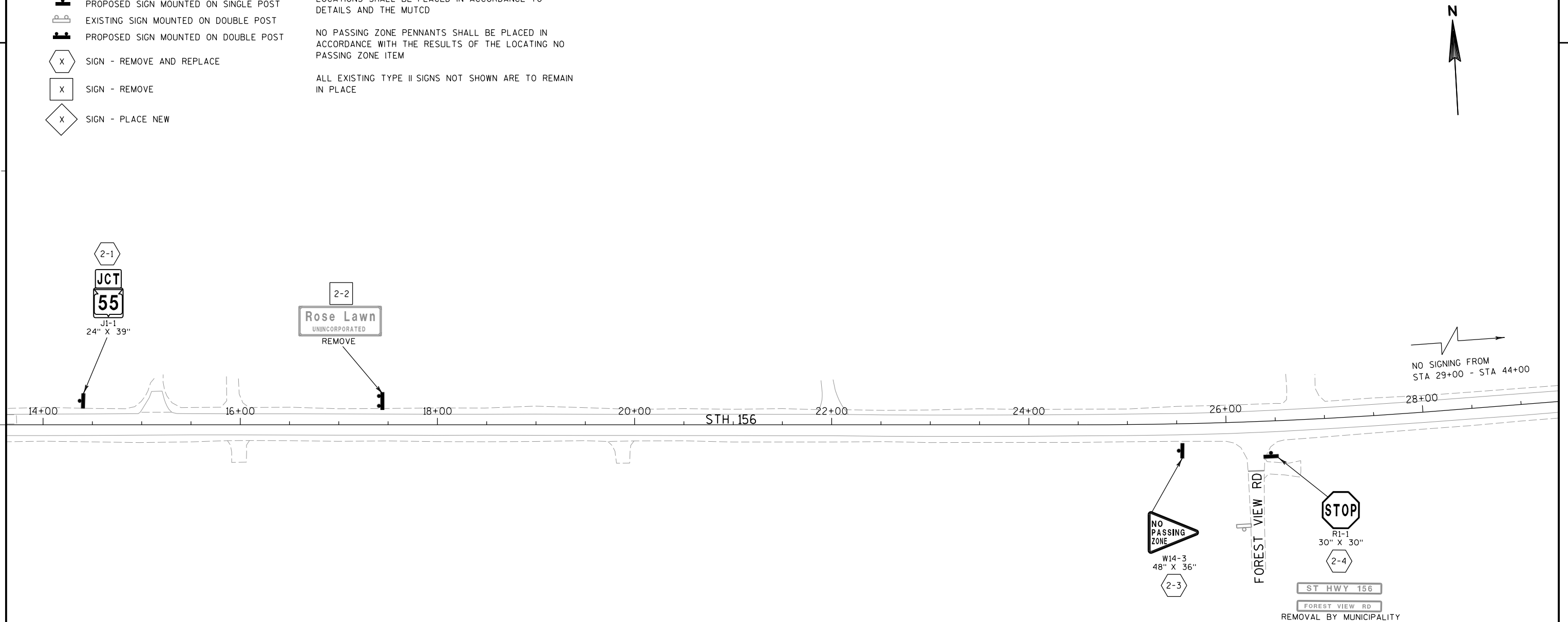
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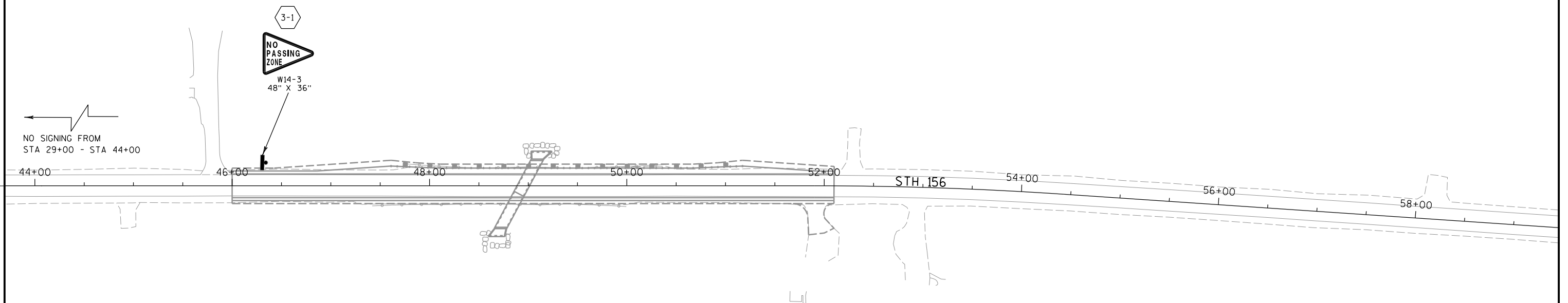
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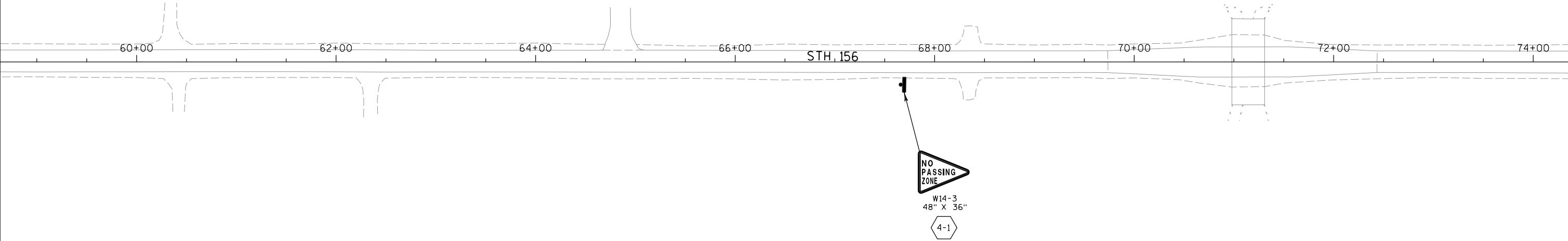
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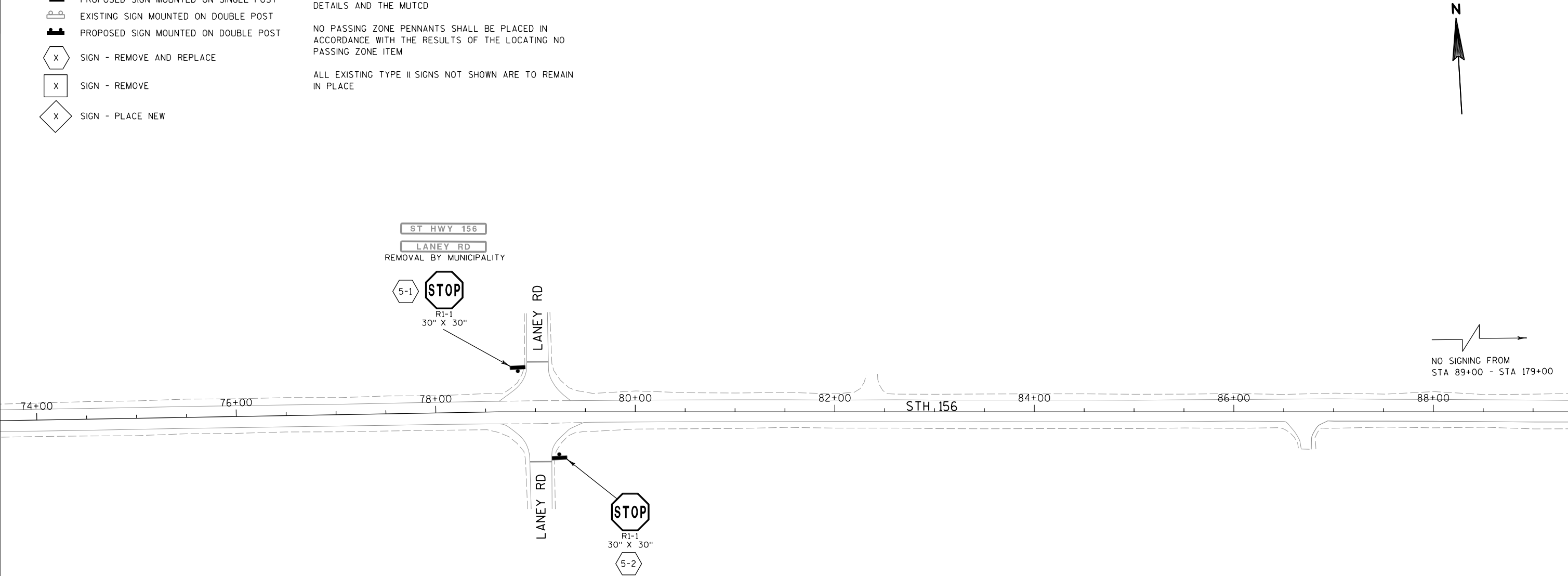
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N

NO SIGNING FROM
STA 89+00 - STA 179+00

180+00

182+00

184+00

186+00

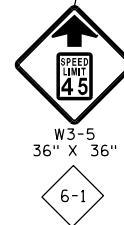
STH 156

188+00

190+00

192+00

194+00



LEGEND

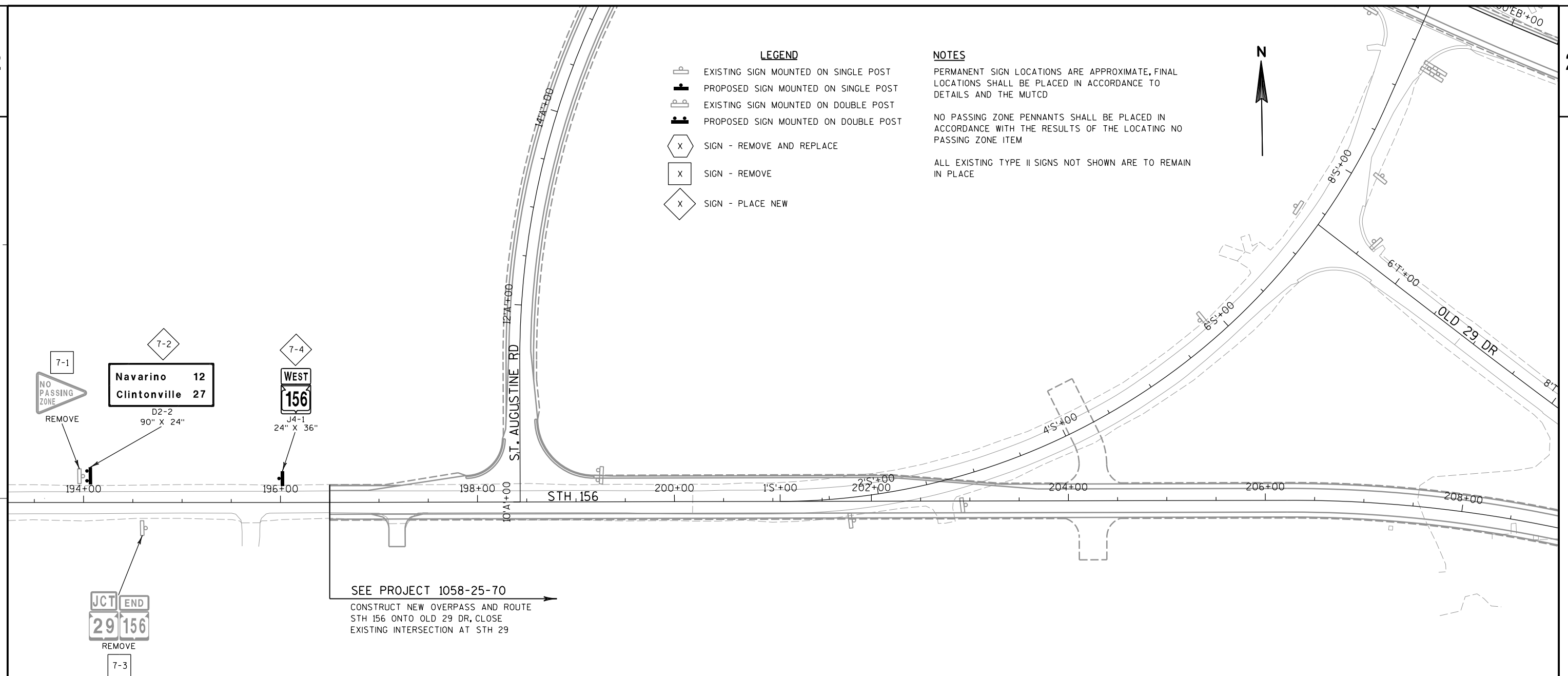
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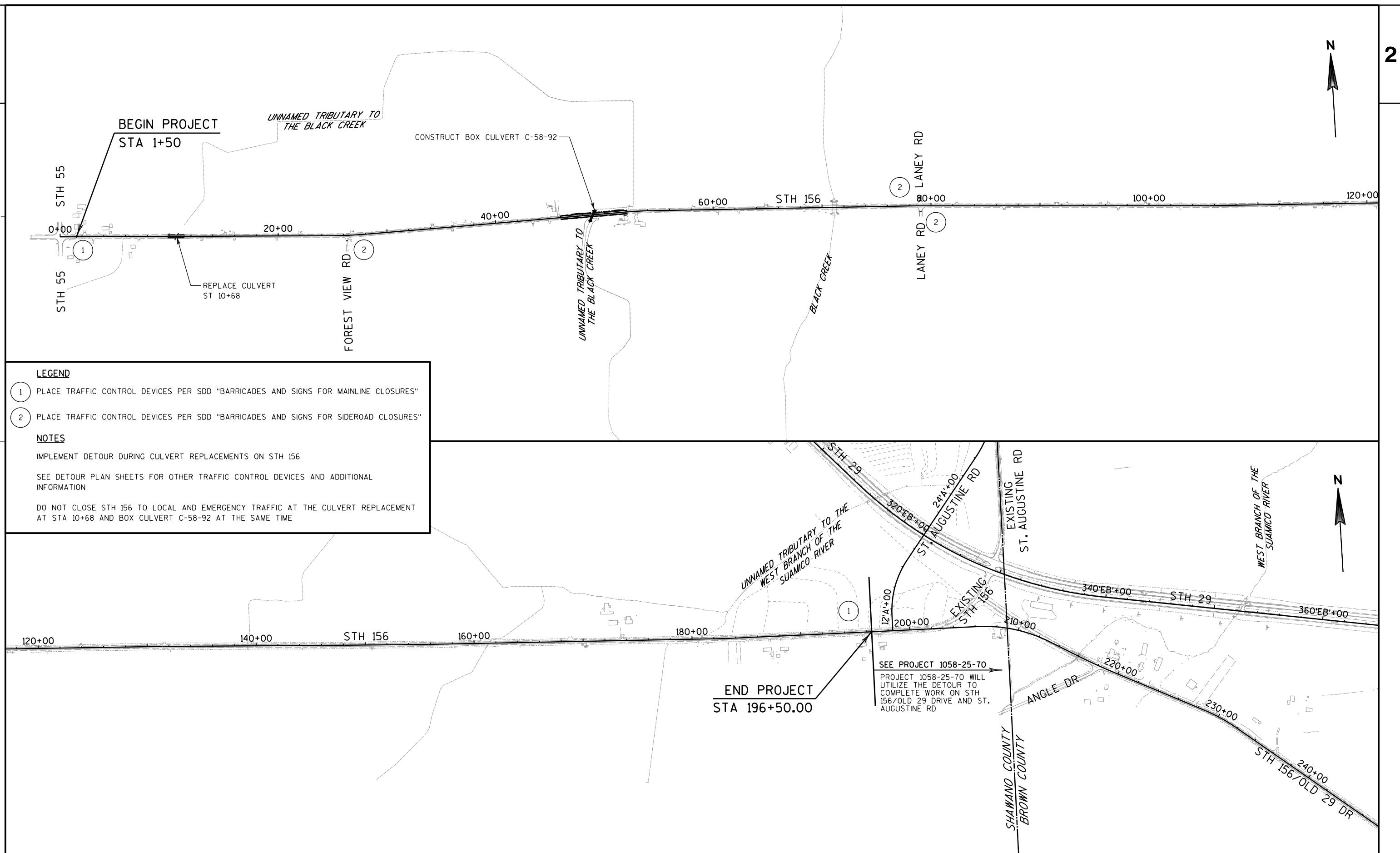
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PROJECT NO:6580-11-60

HWY:STH 156

COUNTY:SHAWANO

TRAFFIC CONTROL - OVERVIEW

SHEET

E

GENERAL NOTES FOR TRAFFIC CONTROL AND DETOUR

- 1) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 2) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- 3) "WO" SIGNS ARE THE SAME A "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- 4) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED. EQUIP WITH TYPE "A" (LOW INTENSITY FLASHING) LIGHTS PER SDDS.
- 5) MAINTAIN ALL EXISTING STOP SIGNS AT ALL TIMES.
- 6) FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A TYPE C WARNING LIGHT.
- 7) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- 8) MAINTAIN LOCAL AND EMERGENCY TRAFFIC ON STH 156. COMPLETE CLOSURE OF STH 156 TO LOCAL AND EMERGENCY TRAFFIC AT THE CROSS CULVERT AND BOX CULVERT C-58-92 SHALL NOT OCCUR AT THE SAME TIME.

NOTES

ADJUST TRAFFIC CONTROL PCMS MESSAGE AS NEEDED BASED ON WORK ZONE AREAS AND CONSTRUCTION SCHEDULE.

CONSIDER GEOMETRICS WHEN LOCATING MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE BOARD FOR A MINIMUM OF 1000 FEET IN FRONT OF THE MESSAGE BOARD.

PLACE MESSAGE BOARDS AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. IN ADVANCE OF FREEWAY CONSTRUCTION PROJECTS THE SIGNS SHOULD BE PLACED ON THE BACKSLOPE BEYOND THE DITCH. THE LOCATION SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ELEVATION OF THE ROADWAY. FOR INTERMITTENT WORK SUCH AS FREEWAY LANE CLOSURE, OR WHERE SITE CONDITIONS DO NOT ALLOW OTHERWISE, THE SIGNS MAY BE PLACED ON THE SHOULDER. THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY AND MAINTENANCE CONSIDERATIONS. A TAPER OF REFLECTORIZED DRUMS OR BARRICADES SHOULD BE PLACED AHEAD OF PCMS PLACED ON THE SHOULDER IF IT IS NOT SHIELDED BY A BARRIER.

PLACE TRAFFIC CONTROL SIGNS PCMS THAT DISPLAY THE "PRIOR TO CONSTRUCTION" MESSAGE 7 DAYS PRIOR TO THE EXPECTED START OF THE PROPOSED WORK THAT WILL REQUIRE THE DETOUR.

TRAFFIC CONTROL SIGNS PCMS MESSAGES			
	PRIOR TO CONSTRUCTION		
	PCMS SIGN LOCATION	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)
#	STH 156 WEST OF STH 55	HWY 156 CLOSING DATE	FROM HWY 55 - HWY 29
#	STH 156 WEST OF OLD 29 DRIVE	HWY 156 CLOSING DATE	FROM HWY 29 - HWY 55

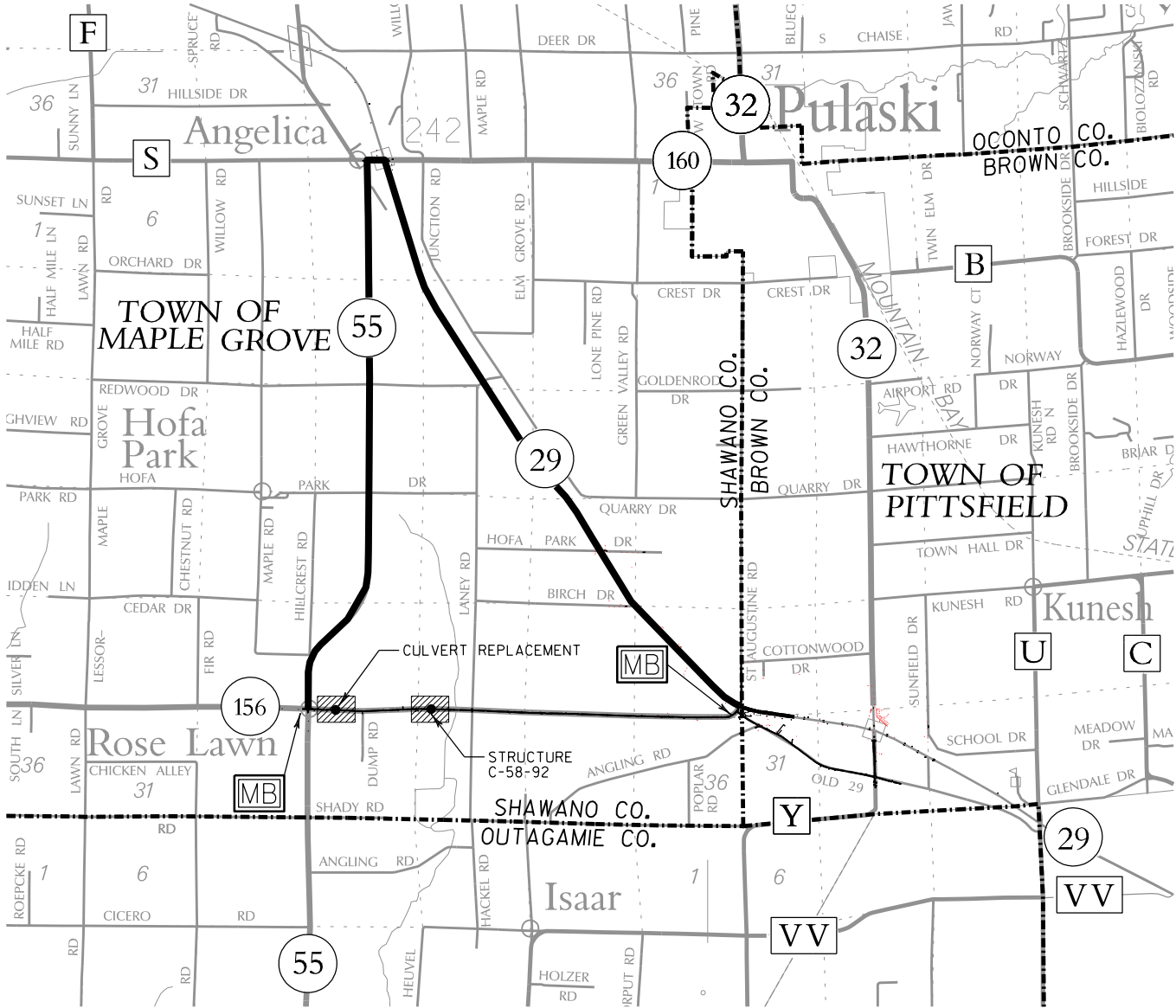
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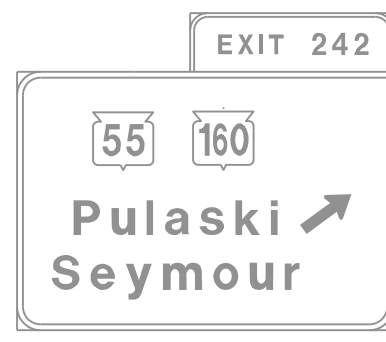
FULL CLOSURE LOCATION

DETOUR ROUTE

MB

TRAFFIC CONTROL SIGNS PCMS



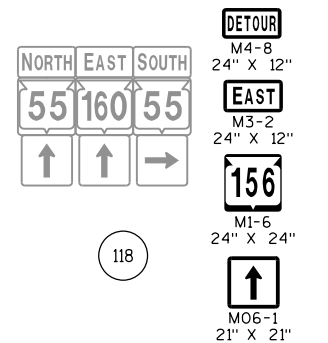
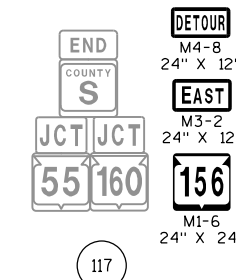
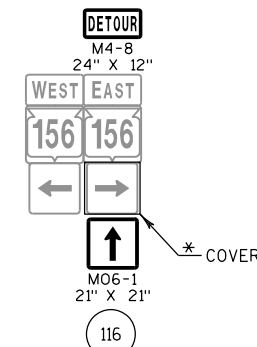
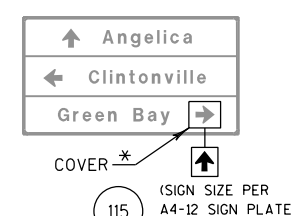
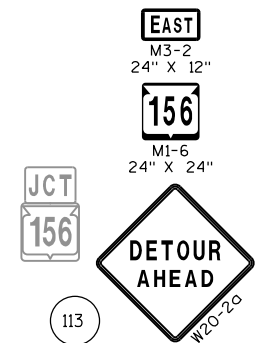
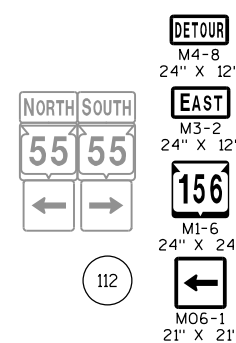
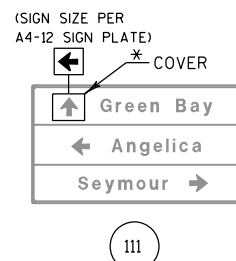
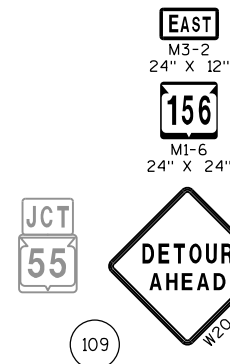
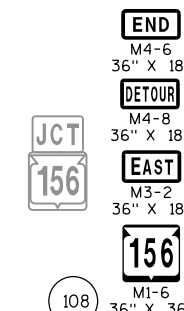
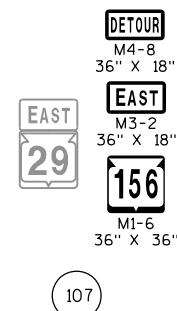
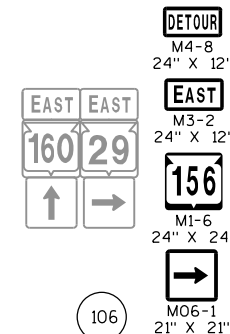
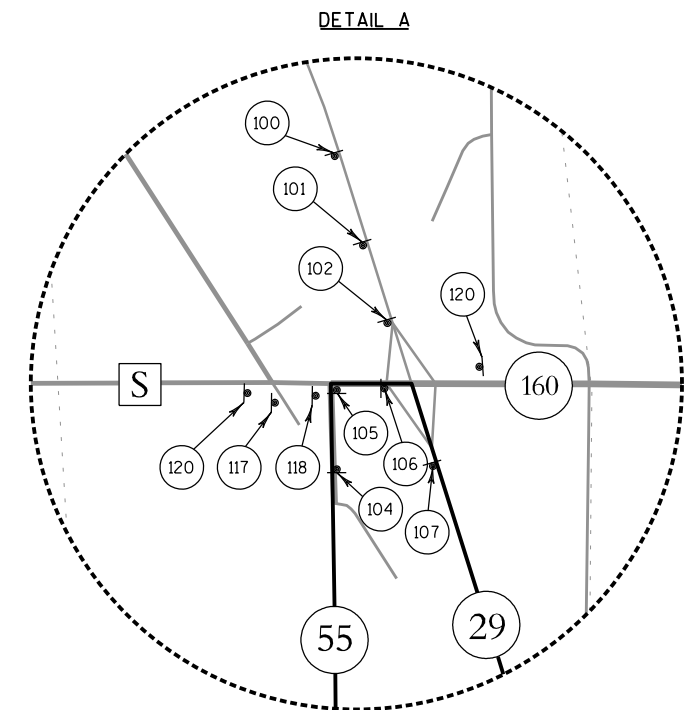
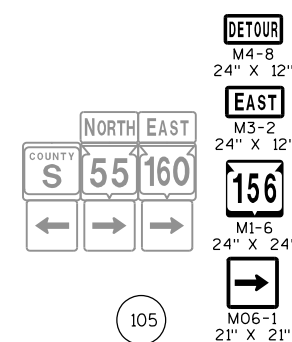
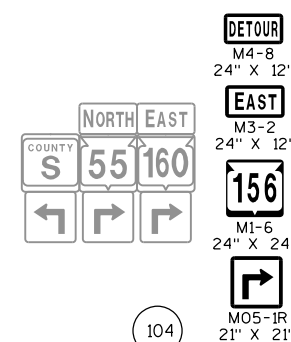
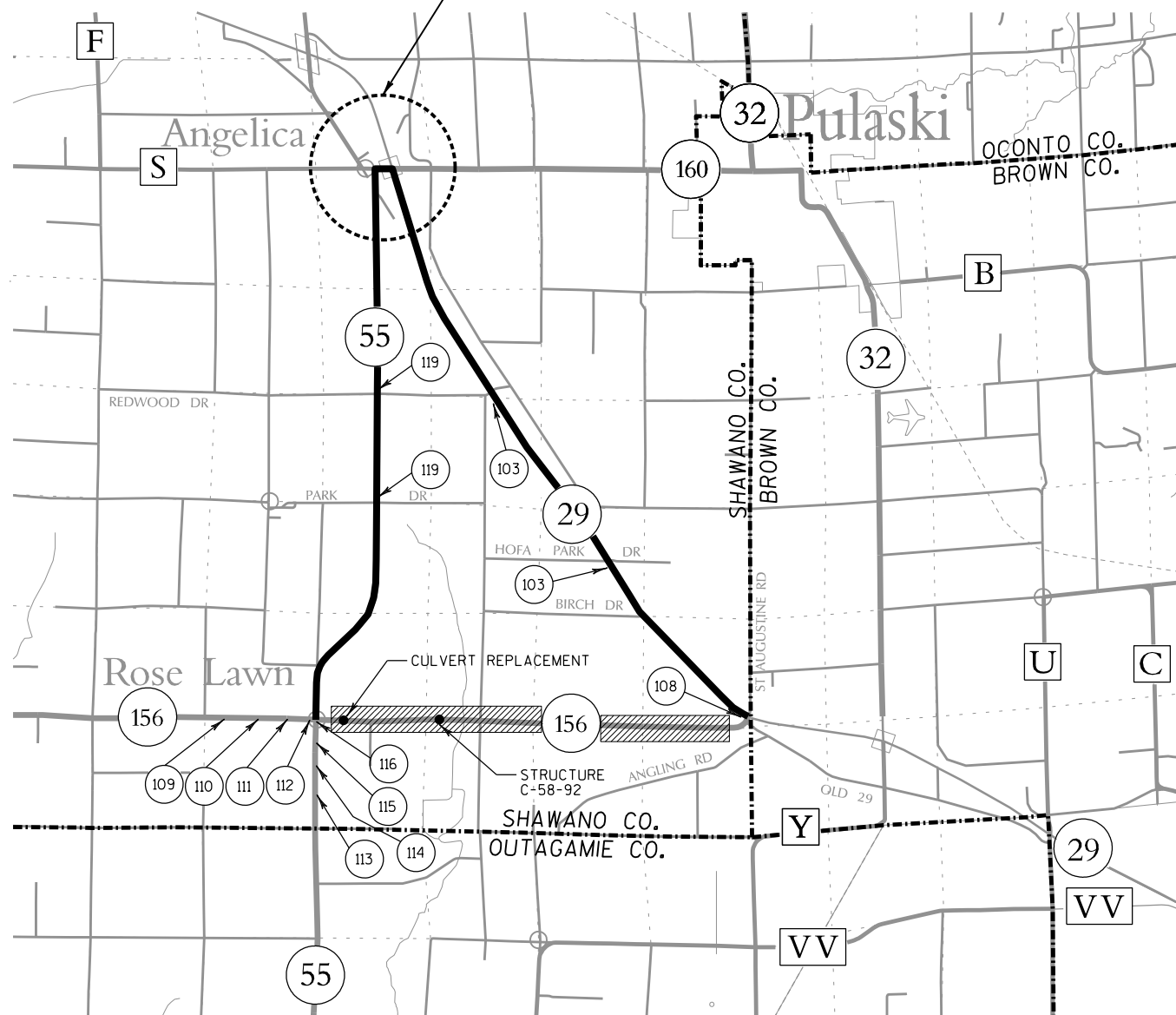


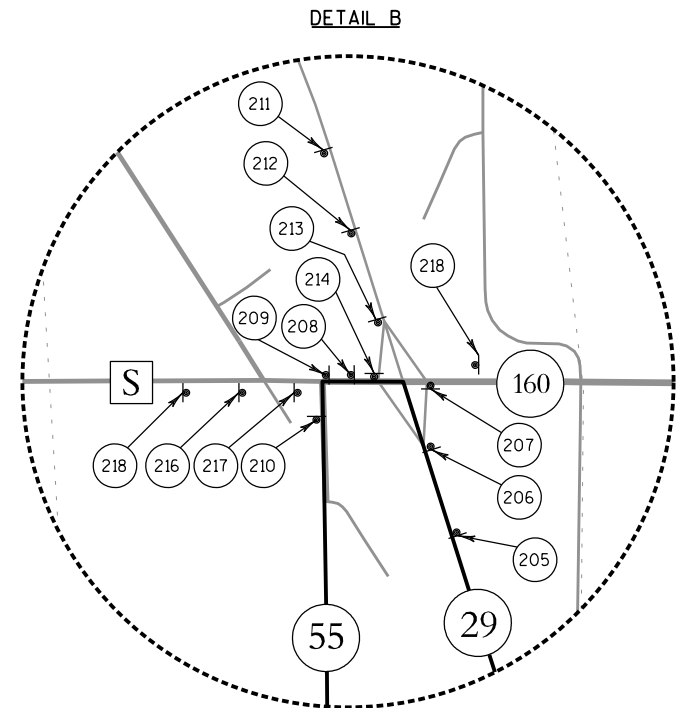
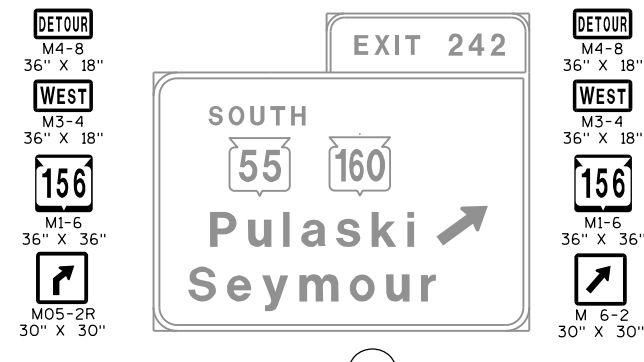
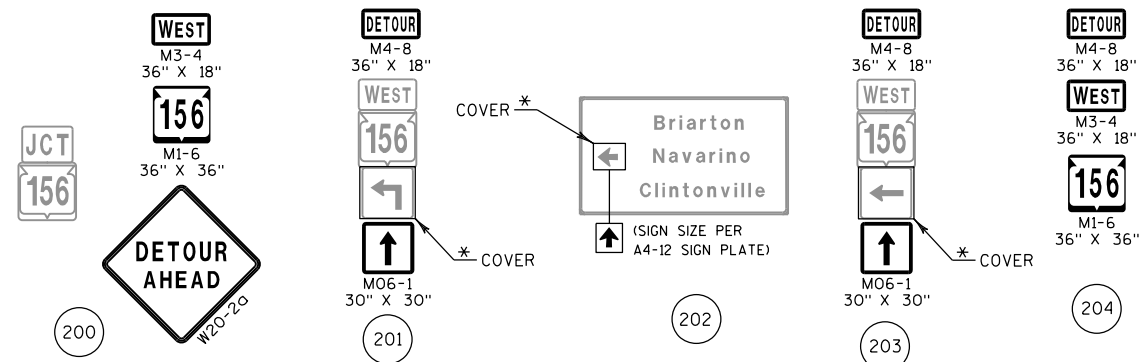
NOTES

* PAID FOR AS TRAFFIC CONTROL DETOUR SIGN

WORK ZONE

SEE DETAIL A

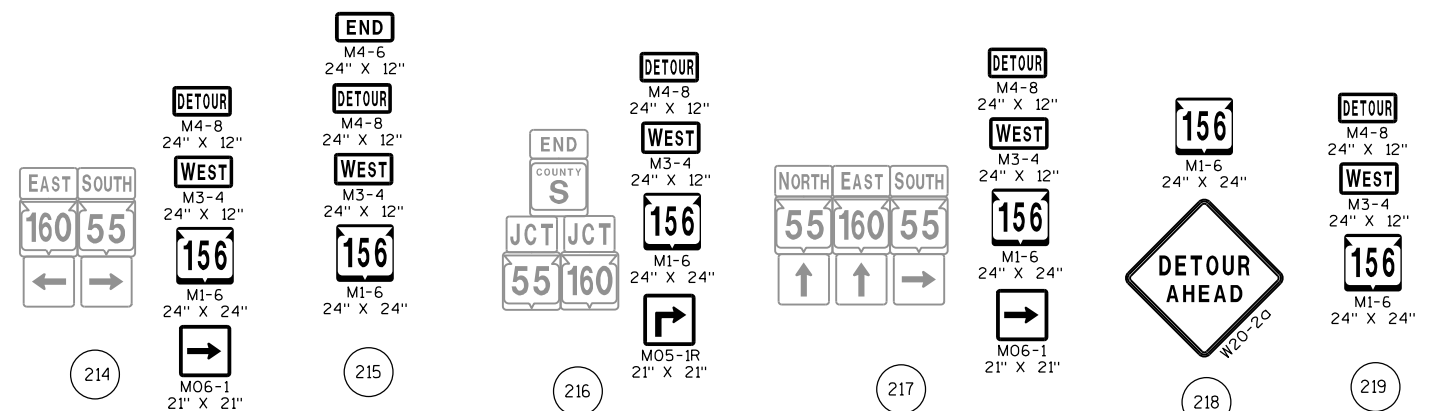
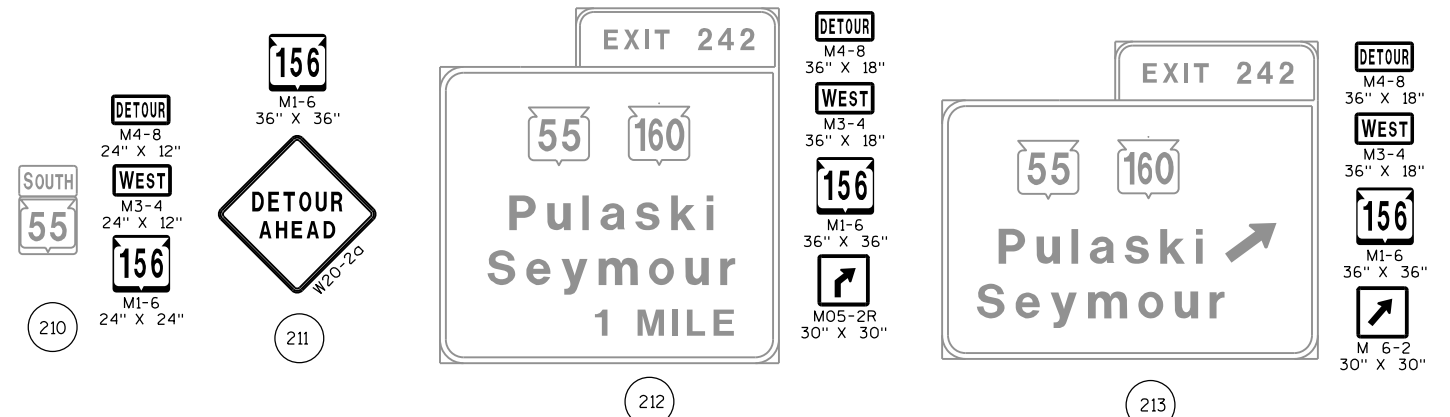
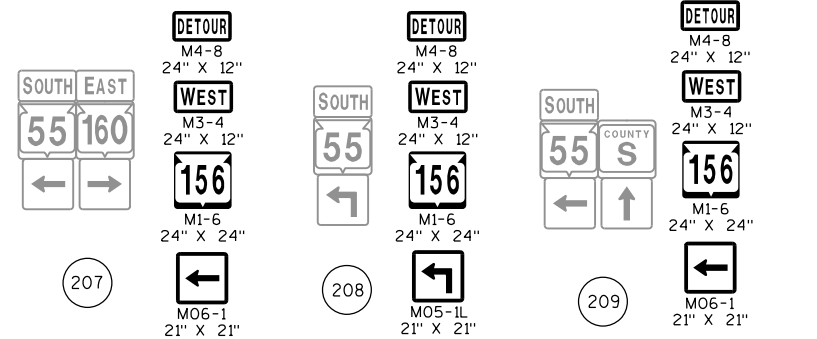




NOTES

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WORK ZONE



CLEARING AND GRUBBING ITEMS

		201.0105 CLEARING	201.0205 GRUBBING
STATION - STATION	LOCATION	STA	STA
CAT 0010			
48+00 - 53+00	LT & RT	5	5
TOTALS		5	5

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH	FOR INFORMATION ONLY		LENGTH FT	COMMENTS
			SIZE INCH	MATERIAL		
CAT 0010						
10+68	LT & RT	1	48	STEEL	56	
51+89	RT	1	18	STEEL	32	
TOTAL		2				

REMOVING ASPHALTIC SURFACE ITEMS

		204.0110	204.0115	204.0125
STATION - STATION	LOCATION	SY	BUTT JOINTS SY	MILLING TON
CAT 0010				
1+50 - 46+00	LT & RT	--	5	1,125
52+10 - 196+50	LT & RT	--	--	3,650
LANEY RD	LT & RT	--	10	40
DRIVEWAYS	LT & RT	1,300	--	--
TOTALS		1,300	15	4,815

EARTHWORK SUMMARY

DIVISION	FROM/TO STATION	LOCATION	EXCAVATION COMMON (NOTE 1) (ITEM 205.0100)	SALVAGED / UNUSEABLE PAVEMENT MATERIAL (NOTE 3)	AVAILABLE MATERIAL (NOTE 4)	UNEXPANDED FILL (NOTE 5)	EXPANDED FILL (NOTE 6)	MASS ORDINATE +/- (NOTE 7)	BORROW (ITEM 208.0100)
			CUT (NOTE 2)				FACTOR 1.25		
ID 6580-11-60									
1	9+00 - 12+00	STH 156 (CULVERT AT STA 10+68)	354	163	191	72	91	100	0
1	46+00 - 52+10	STH 156 (C-58-92 CULVERT AT STA 48+95)	1,357	331	1,026	992	1,240	-214	214
TOTALS			1,711	494	1,217	1,064	1,331	-114	114

1) NO EBS IS ANTICIPATED. IF EBS IS REQUIRED IT WILL BE PAID AS EXCAVATION COMMON. ITEM NUMBER 205.0100
2) SALVAGED/UNSUAABLE PAVEMENT MATERIAL IS INCLUDED IN CUT
3) SALVAGED/UNUSABLE PAVEMENT MATERIAL EQUALS AREA OF PROJECT PAVEMENT REMOVAL * TYPICAL EXISTING PAVEMENT DEPTH
4) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUAABLE PAVEMENT MATERIAL
5) UNEXPANDED FILL IS A SUM OF CROSS SECTION AREAS FROM EACH DIVISIONAL SHEET
6) EXPANDED FILL FACTOR = 1.25, EXPANDED FILL = (UNEXPANDED FILL) * FILL FACTOR
7) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

BACKFILL GRANULAR

		209.2100 GRADE 2	
STATION	LOCATION	CY	COMMENTS
CAT 0010			
10+68	LT & RT	450	CULVERT REPLACEMENT
TOTAL		450	

PREPARE FOUNDATION ITEMS

		211.0100.02 ASPHALTIC PAVING (6580-11-60)	211.0400 ASPHALTIC SHOULDERS
STATION - STATION	LOCATION	LS	STA
CAT 0010			
1+50 - 196+50	PROJECT	1	--
24+00 - 28+75	LT	--	5
52+10 - 55+00	RT	--	3
TOTALS		1	8

3

BASE AGGREGATE DENSE ITEMS

			305.0110	305.0120
			3/4-INCH	1 1/4-INCH
STATION - STATION	LOCATION		TON	TON
CAT 0010				
1+50 - 46+00	LT & RT		840	265
46+00 - 52+10	LT & RT		160	2,160
52+10 - 196+50	LT & RT		2,610	--
SIDE ROADS	LT & RT		30	--
DRIVEWAYS	LT & RT		160	--
TOTALS			3,800	2,425

CULVERT PIPE AND APRON ENDWALL ITEMS

		521.0118	521.1518	522.0336	522.1036	612.0700	**PIPE
		CULVERT PIPE	APRON ENDWALLS	CULVERT PIPE	APRON ENDWALLS	DRAIN TILE	JOINT TIES
		MIN. CORRUGATED	FOR CULVERT PIPE	REINFORCED CONCRETE	FOR CULVERT PIPE	EXPLORATION	**PIPE
		STEEL	SLOPED SIDE DRAINS	CLASS IV	REINFORCED CONCRETE		
		THICKNESS	STEEL	36-INCH	36-INCH		
		INCH	18-INCH	LF	EACH	LF	EACH
STATION	LOCATION		LF				
CAT 0010							
10+68	LT & RT	--	--	56	2	30	12
51+92	RT	0.064	36	--	--	--	--
TOTALS			36	56	2	30	12

**NON BID ITEM, FOR INFORMATION ONLY. TIE LAST THREE JOINTS AT EACH END

3

SHAPING SHOULDERS

STATION - STATION	LOCATION	305.0500
CAT 0010		
1+50 - 46+00	LT	37
1+50 - 46+01	RT	42
52+10 - 196+50	LT	145
52+10 - 196+50	RT	142
TOTAL		366

NOTE:
NOT INCLUDED IN PREPARE FOUNDATION FOR ASPHALTIC
SHOULDERS AREAS AND RECONSTRUCTION AREAS

HMA AND ASPHALTIC ITEMS

		455.0605	460.5223	460.5224	465.0105	465.0120	
		TACK	HMA PAVEMENT	HMA PAVEMENT	ASPHALTIC	ASPHALTIC SURFACE	
		COAT	3 LT 58-28 S	4 LT 58-28 S	SURFACE	DRIVEWAYS AND	
		GAL	TON	TON	TON	FIELD ENTRANCES	COMMENTS
CAT 0010							
1+50 - 46+00	LT & RT	747	20	1,020	175	--	
46+00 - 52+10	LT & RT	225	400	230	--	--	
52+10 - 196+50	LT & RT	2,510	15	3,530	--	--	
LANEY RD	LT & RT	25	--	30	--	--	
DRIVEWAYS	LT & RT	--	--	--	--	215	
PROJECT	LT & RT	58	150	--	--	--	LEVELING AND WEDGING IN SUPERELEVATION AREAS
TOTALS		3,565	585	4,810	175	215	

3

TEMPORARY DIVERSION CHANNEL ITEMS

	606.0100 RIPRAP LIGHT CY	628.5505 POLYETHYLENE SHEETING SY
CAT 0010		
LOCATION		
STRUCTURE C-58-92	30	900
TOTALS	30	900

NOTE:
ESTIMATED EXCAVATION IS SHOWN ON THE ROADWAY PLANS AND IS INCIDENTAL
TO THE ITEM "EXCAVATION FOR STRUCTURES" (SEE STRUCTURE PLANS)

3

RIPRAP AND GEOTEXTILE ITEMS

		606.0200 RIPRAP MEDIUM CY	645.0120* GEOTEXTILE TYPE HR SY
CAT 0010	STATION	LOCATION	
	10+85	LT	8 25
TOTAL			8 25

*ADDITIONAL QUANTITIES SHOWN ON STRUCTURE PLANS

GUARDRAIL ITEMS

		614.0920 SALVAGED RAIL LF	614.0925 SALVAGED GUARDRAIL END TREATMENTS EACH	614.2300 MGS GUARDRAIL 3 LF	614.2340 MGS GUARDRAIL 3 L LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
CAT 0010	STATION - STATION	LOCATION				
	9+14 - 11+77	RT	265	2	--	--
	9+50 - 12+15	LT	265	2	--	--
	47+42 - 50+00	RT	260	2	--	--
	47+61 - 51+17	LT	265	2	137.5	112.5 2
TOTALS			1,055	8	137.5	112.5 2

FENCE SAFETY

		616.0700.S LF	COMMENTS
CAT 0010	STATION - STATION	LOCATION	
	51+00 - 51+85	RT	85 FENCE TO PROTECT SEPTIC TANK
TOTAL			85

MONUMENT ITEMS

LOCATION	621.0100 LANDMARK REFERENCE MONUMENTS EACH	SPV.0060.01 REESTABLISH SECTION CORNER MONUMENTS EACH	SPV.0105.02 VERIFY AND REPLACE EXISTING PROPERTY MONUMENTS PROJECT 6580-11-60 LS	SPV.0105.04 RESEARCH AND LOCATE EXISTING PROPERTY MONUMENTS PROJECT 6580-11-60 LS
CAT 0010				
N 1/4 OF SEC 33, T25N, R18E	4	1	--	--
NE OF SEC 33, T25N, R18E	4	1	--	--
N 1/4 OF SEC 34, T25N, R18E	4	1	--	--
NE OF SEC 34, T25N, R18E	4	1	--	--
N 1/4 OF SEC 35, T25N, R18E	4	1	--	--
NE OF SEC 35, T25N, R18E	4	1	--	--
N 1/4 OF SEC 36, T25N, R18E	4	1	--	--
PROJECT	--	--	1	1
TOTALS	28	7	1	1

WATER

LOCATION	624.0100 MGAL
CAT 0010	
PROJECT	90
TOTAL	90
NOTE: WATER IS FOR BASE AGGREGATE COMPACTION	

MOBILIZATIONS EROSION CONTROL

LOCATION	628.1905 EACH	628.1910 EMERGENCY EACH
CAT 0010		
PROJECT	3	3
TOTALS	3	3

EROSION CONTROL ITEMS

STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2004 EROSION MAT CLASS I TYPE B SY	628.2027 EROSION MAT CLASS II TYPE C SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH
CAT 0010								
9+00 - 12+00	LT & RT	260	260	1,590	245	110	10	30
46+00 - 52+10	LT & RT	440	440	3,225	530	145	10	60
UNDISTRIBUTED	--	175	175	1,200	200	65	5	25
TOTALS		875	875	6,015	975	320	25	115

3

FINISHING ITEMS

STATION - STATION		LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	631.0300 SOD WATER MGAL	SPV.0030.01 FERTILIZER FOR LAWN TYPE TURF CWT	SPV. 0180.01 PREPARING TOPSOIL FOR LAWN TYPE TURF SY
CAT 0010										
8+00 - 12+50		LT & RT	1,860	--	1.2	35	--	--	--	--
46+00 - 52+10		LT & RT	3,835	--	2.0	69	12	14	0.4	635
UNDISTRIBUTED		--	1,425	1,500	0.8	26	3	11	0.1	165
TOTALS			7,120	1,500	4.0	130	15	25	0.5	800

NOTE:
SOD WATER IS FOR ESTABLISHING LAWN TYPE AREAS, TEMPORARY DIVERSION CHANNEL, OR OTHER AREAS AS DIRECTED BY THE ENGINEER

MARKERS ITEMS

		633.5100	633.5200
STATION	LOCATION	ROW	CULVERT END
CAT	0010	EACH	EACH
5+87	LT & RT	--	2
10+68	LT & RT	--	2
32+06	LT & RT	--	2
48+95	LT & RT	--	2
71+15	LT & RT	--	2
100+85	LT & RT	--	2
139+25	LT & RT	--	2
161+38	LT & RT	--	2
180+75	LT & RT	--	2
--	PROJECT	20	--
TOTALS		20	18

3

TYPE II SIGNS AND SUPPORTS

					637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
SIGN NO.	SIGN CODE	W	X	H								
CAT 0010												
1-1	J4-1	24	X	36	6.00	--	--	1	--	1	1	MOUNT ON SAME POST AS 1-2
1-2	R2-1	24	X	30	5.00	--	--	1	--	--	--	
1-3	W14-3	48	X	36	--	6.00	--	--	--	1	1	
1-4	D1-3	78	X	42	22.75	--	--	--	2	1	2	
1-5	J2-3	72	X	57	28.50	--	--	--	2	--	--	
1-6	W3-1	36	X	36	--	9.00	--	1	--	--	--	RD NAME SIGN REMOVAL BY MUNICIPALITY
1-7	D2-2	78	X	24	13.00	--	1	1	--	--	--	
1-8	--	--	X	--	--	--	--	--	--	1	2	
1-9	--	--	X	--	--	--	--	--	--	1	1	
2-1	J1-1	24	X	39	6.50	--	--	1	--	1	1	
2-2	--	--	X	--	--	--	--	--	--	1	2	ROSE LAWN UNINCORPORATED SIGN
2-3	W14-3	48	X	36	--	6.00	--	1	--	1	1	RD NAME SIGN REMOVAL BY MUNICIPALITY
2-4	R1-1	30	X	30	5.18	--	1	--	--	1	1	
3-1	W14-3	48	X	36	--	6.00	--	1	--	1	1	
4-1	W14-3	48	X	36	--	6.00	--	1	--	1	1	RD NAME SIGN REMOVAL BY MUNICIPALITY
5-1	R1-1	30	X	30	5.18	--	1	--	--	1	1	
5-2	R1-1	30	X	30	5.18	--	1	--	--	1	1	
6-1	W3-5	36	X	36	--	9.00	--	1	--	--	--	
6-2	R2-1	24	X	30	5.00	--	1	--	--	1	1	
6-3	R2-1	24	X	30	5.00	--	1	--	--	--	--	RD NAME SIGN REMOVAL BY MUNICIPALITY
6-4	W14-3	48	X	36	--	6.00	--	1	--	--	--	
7-1	--	--	X	--	--	--	--	--	--	1	1	
7-2	D2-2	90	X	24	15.00	--	1	1	--	--	--	
7-3	--	--	X	--	--	--	--	--	--	1	1	
7-4	J4-1	24	X	36	6.00	--	--	1	--	--	--	
TOTALS					128.29	48.00	7	12	4	16	19	

PROJECT NO:6580-11-60

HWY:STH 156

COUNTY:SHAWANO

MISCELLANEOUS QUANTITIES

SHEET

E

3

TRAFFIC CONTROL ITEMS																	
		643.0100.02 (6580-11-60)		643.0300 DRUMS		643.0420 BARRICADES TYPE III		643.0705 WARNING LIGHTS TYPE A		643.0900 SIGNS		643.1050 SIGNS PCMS		643.2000.01 DETOUR (6580-11-60)		643.3000 DETOUR SIGNS	
LOCATION	DAYS	EACH	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	EACH	NO.	DAYS
CAT 0010																	
PROJECT	60	1	--	--	24	1,440	48	2,880	21	1,260	2	14	--	--	--	--	--
DETOUR	140	--	--	--	--	--	--	--	--	--	--	--	--	1	150	21,000	
UNDISTRIBUTED	10	--	30	300	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTALS		1		300		1,440		2,880		1,260		14		1		21,000	

3

PAVEMENT MARKING ITEMS			
STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH (YELLOW CENTERLINE)	646.2304.S GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE EDGE LINE)
		LF	LF
CAT 0010			
1+50 - 196+50	LT & RT	9,975	38,860
TOTALS		9,975	38,860

LOCATING NO-PASSING ZONES

LOCATION	648.0100 MI
CAT 0010	
PROJECT	3.70
TOTAL	3.70

CONSTRUCTION STAKING ITEMS

STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.6000 PIPE CULVERTS EACH	650.6500.04 STRUCTURE LAYOUT (C-58-0092) LS	650.8000 RESURFACING REFERENCE LF	650.9910.02 SUPPLEMENTAL CONTROL (6580-11-60) LS	650.9920 SLOPE STAKES LF
		LF	LF	EACH	LS	LF	LS	LF
CAT 0010								
1+50 - 196+50	LT & RT	--	--	--	--	19,500	--	--
9+00 - 12+00	LT & RT	300	--	1	--	--	--	300
46+00 - 52+10	LT & RT	610	610	--	1	--	--	610
PROJECT	LT & RT	--	--	--	--	--	1	--
TOTALS		910	610	1	1	19,500	1	910

SAWING ASPHALT

STATION - STATION	LOCATION	690.0150 LF
CAT 0010		
1+50	LT & RT	22
9+89 - 11+38	LT & RT	44
46+00 - 52+10	LT & RT	44
LANEY RD	LT & RT	45
DRIVEWAYS	LT & RT	360
TOTAL		515

TRANSPORTATION PROJECT PLAT NO: 6580-11-20 - 4.01

AMENDMENT NO. 1

AMENDS PARCEL 3 OF TRANSPORTATION PROJECT PLAT 6580-11-20-4.01 RECORDED AS DOCUMENT NO: 713018.
THAT PART OF LOT 2 OF CSM 3310 RECORDED IN V. 14, P. 71, AS DOC. 621669 IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 33 AND ALSO THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 28, ALL BEING LOCATED IN TOWNSHIP 25 NORTH, RANGE 18 EAST, TOWN OF MAPLE GROVE, SHAWANO COUNTY, WISCONSIN

RELOCATION ORDER STH 156 (STH 55 - STH 29) SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

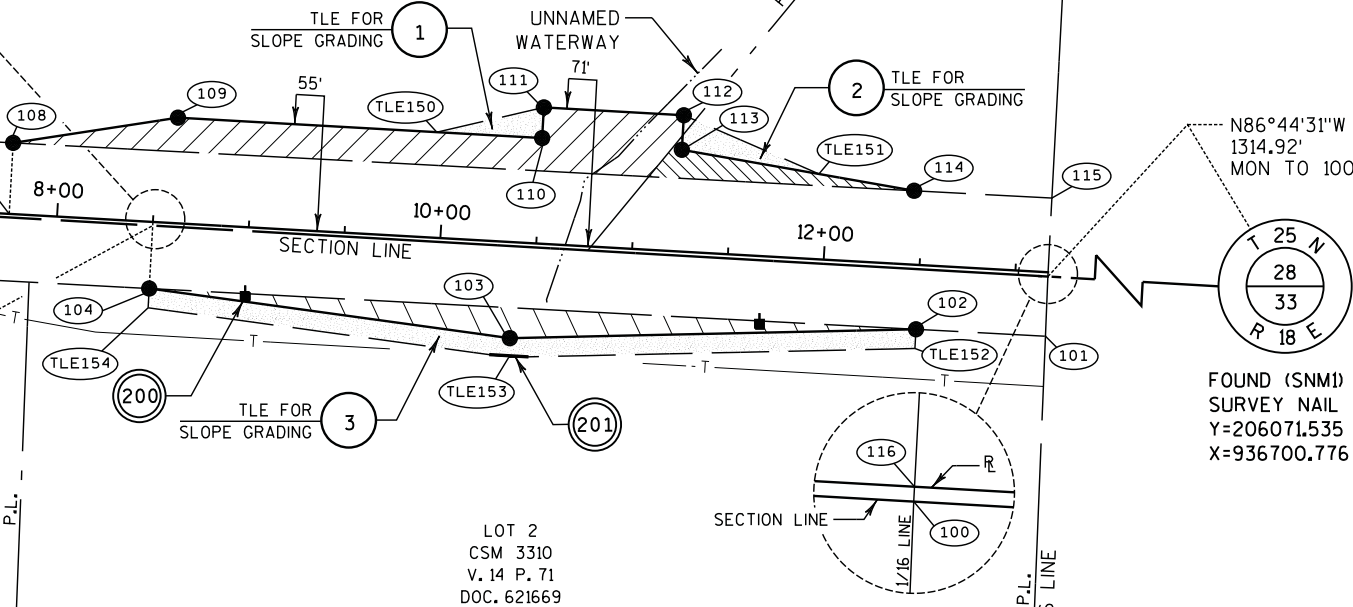
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS Laid OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC # 715376
Recorded
May 23, 2016 11:00 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: \$30.00
Slide 8 page 311

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6580-11-20-4.01
AMENDMENT NO: 1

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS
201	CENTURYTEL OF CENTRAL WISCONSIN, LLC D/B/A CENTURYLINK	RELEASE OF RIGHTS

- SW/SW
- (200) WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC)
DOC. 233055 - PAR. 3
- (201) CENTURYTEL OF CENTRAL WISCONSIN, LLC D/B/A CENTURYLINK
DOC. 307743 - PAR. 3
DOC. 415802 - PAR. 3



NW/NW

MAPLE GROVE

NE/NW

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE150	9+95.00	-55.00'
TLE151	11+95.00	-44.41'
TLE152	12+50.00	43.57'
TLE153	10+39.00	60.00'
TLE154	8+50.00	44.76'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
100	13+17.02	2.27'
101	13+17.51	33.34'
102	12+50.00	33.54'
103	10+39.00	50.00'
104	8+50.00	34.72'
105	8+50.00	1.90'
106	8+50.00	0.00'
107	7+75.00	0.00'
108	7+75.00	-37.05'
109	8+60.00	-55.00'
110	10+50.00	-55.00'
111	10+50.00	-71.00'
112	11+23.00	-71.00'
113	11+23.00	-53.00'
114	12+45.00	-38.44'
115	13+16.86	-38.65'
116	13+17.01	0.00'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 150	206324.994	934119.341	1.25" OD IP
IP 151	206267.910	934171.066	1.25" OD IP
IP 152	206156.935	934322.482	1.25" OD IP
IP 153	206159.952	934162.951	1.25" OD IP
IP 154	206120.011	934118.864	1.25" OD IP

COURSE TABLE		
COURSE	BEARING	DISTANCE
100-101	S 2°18'07" W	31.08'
101-102	N 86°57'23" W	67.51'
102-103	S 88°45'11" W	211.64'
103-104	N 82°10'00" W	189.62'
104-105	N 3°12'46" E	32.82'
105-106	N 3°12'46" E	1.90'
106-107	N 86°47'14" W	75.00'
107-108	N 3°12'46" E	37.05'
108-109	N 81°17'28" E	86.87'
109-110	S 86°47'14" E	190.00'
110-111	N 3°12'46" E	16.00'
111-112	S 86°47'14" E	73.00'
112-113	S 3°12'46" W	18.00'
113-114	S 79°58'57" E	122.87'
114-115	S 86°57'23" E	71.86'
115-116	S 2°59'25" W	38.65'
116-100	S 2°59'25" W	2.27'

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W NEW	ACRES EXISTING	ACRES TOTAL	TLE ACRES
1	STEVE VUE AND XIA YANG VUE	FEE/TLE	0.144	0.405	0.549	0.011
2	CLAYTON NOOYEN, SR. AND PAULINE NOOYEN	FEE/TLE	0.025	0.828	0.853	0.014
3	DALE R. KROPP AND KATHRYN P. KROPP	FEE/TLE	0.073	0.602	0.675	0.092

CONVENTIONAL SYMBOLS

- FOUND IRON PIPE/PIVOT (IF UNLESS NOTED)
- R/W MONUMENT
- R/W STANDARD
- SIGN
- SECTION CORNER MONUMENT
- SECTION CORNER SYMBOL
- FEE (HATCH VARIES)
- TEMPORARY LIMITED EASEMENT
- PERMANENT LIMITED EASEMENT
- R/W BOUNDARY POINT
- PARCEL NUMBER
- UTILITY NUMBER
- SIGN NUMBER (OFF PREMISE)
- BUILDING
- PROPOSED R/W LINE
- EXISTING H.E. LINE
- PROPERTY LINE
- LOT & TIE LINES
- SLOPE INTERCEPTS
- CORPORATE LIMITS
- RESTRICTED ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
- RESTRICTED ACCESS (BY ACQUISITION)
- NO ACCESS (BY STATUTORY AUTHORITY)
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- EXISTING CENTERLINE
- PROPOSED REFERENCE LINE
- PARALLEL OFFSET

CONVENTIONAL ABBREVIATIONS

- ACCESS POINT/ DRIVEWAY CONNECTION
- ACCESS RIGHTS
- ACRES
- AND OTHERS
- CENTERLINE
- CERTIFIED SURVEY MAP
- CORNER
- DOCUMENT
- EASEMENT
- HIGHWAY EASEMENT
- LAND CONTRACT
- MONUMENT
- PAGE
- PERMANENT LIMITED EASEMENT
- PROPERTY LINE
- RECORDED AS
- AP
- AR
- AC.
- ET AL.
- C/L
- CSM
- COR.
- DOC.
- EASE.
- H.E.
- LC
- MON.
- P.
- PLE
- PL
- (100')
- REFERENCE LINE
- RELEASE OF RIGHTS
- REMAINING
- RIGHT-OF-WAY
- SECTION
- STATION
- TEMPORARY LIMITED EASEMENT
- VOLUME
- CURVE DATA
- LONG CHORD
- LONG CHORD BEARING
- RADIUS
- DEGREE OF CURVE
- CENTRAL ANGLE OR DELTA
- LENGTH OF CURVE
- TANGENT

CONVENTIONAL UTILITY SYMBOLS

- WATER
- GAS
- TELEPHONE
- OVERHEAD
- TRANSMISSION LINES
- ELECTRIC
- CABLE TELEVISION
- FIBER OPTIC
- SANITARY SEWER
- STORM SEWER
- NON COMPENSABLE
- COMPENSABLE
- POWER POLE
- TELEPHONE POLE
- TELEPHONE PEDESTAL
- ELECTRIC TOWER

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, SHAWANO COUNTY, NAD 83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 156 ESTABLISHED FROM PREVIOUS PROJECT S0114(2), CSM 3310, AND EXISTING CENTERLINE.

EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 55 ESTABLISHED FROM PREVIOUS PROJECT 6524-01-21, S0114(2), AND EXISTING CENTERLINE.

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

PREVIOUS ACCESS CONTROL ESTABLISHED FROM PREVIOUS RW PROJECT 6524-01-21.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

REFERENCE LINE IS NOT COINCIDENT WITH SECTION LINE.

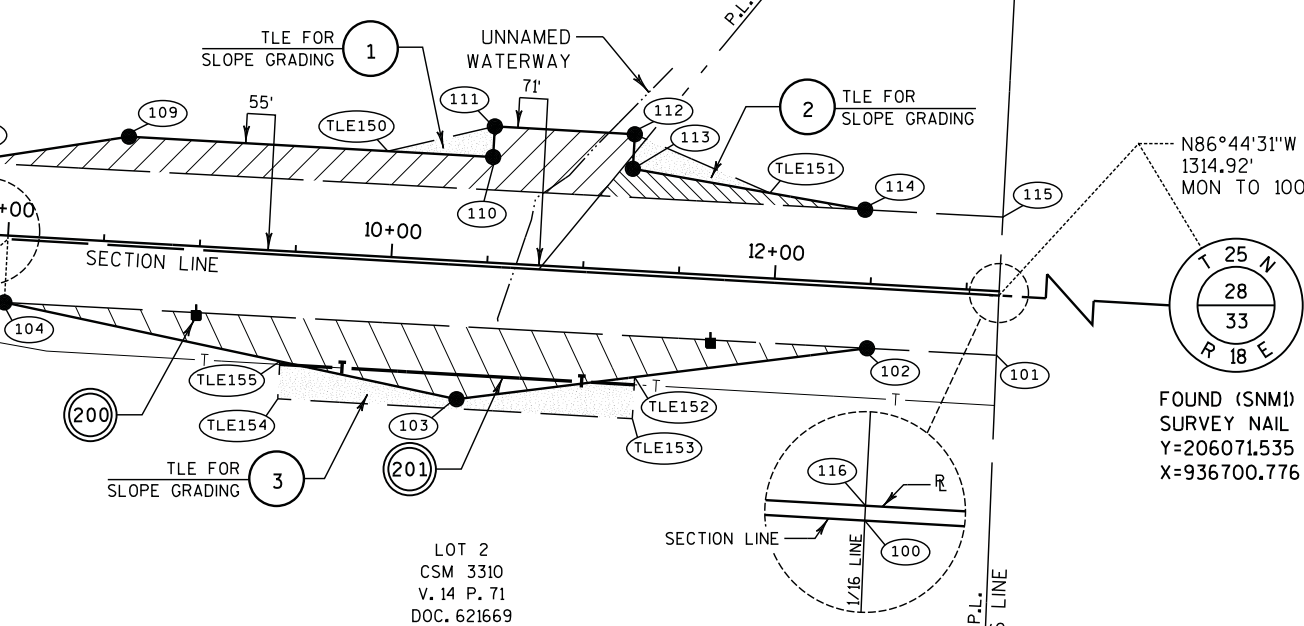
TRANSPORTATION PROJECT PLAT NO: 6580-11-20 - 4.01

THAT PART OF LOT 2 OF CSM 3310 RECORDED IN V.14, P.71, AS DOC. 621669 IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 33 AND ALSO THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 28, ALL BEING LOCATED IN TOWNSHIP 25 NORTH, RANGE 18 EAST, TOWN OF MAPLE GROVE, SHAWANO COUNTY, WISCONSIN
RELOCATION ORDER STH 156 (STH 55 - STH 29) SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
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UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC) DOC. 233055 - PAR. 3	RELEASE OF RIGHTS
201	CENTURYTEL OF CENTRAL WISCONSIN, LLC D/B/A CENTURYLINK DOC. 307743 - PAR. 3 DOC. 415802 - PAR. 3	RELEASE OF RIGHTS

- (200) WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC)
DOC. 233055 - PAR. 3
- (201) CENTURYTEL OF CENTRAL WISCONSIN, LLC D/B/A CENTURYLINK
DOC. 307743 - PAR. 3
DOC. 415802 - PAR. 3



NW/NW

MAPLE GROVE

NE/NW

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE150	9+95.00	-55.00'
TLE151	11+95.00	-44.41'
TLE152	11+30.00	55.31'
TLE153	11+30.00	77.00'
TLE154	9+45.00	77.00'
TLE155	9+45.00	57.49'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
100	13+17.02	2.27'
101	13+17.51	33.34'
102	12+50.00	33.54'
103	10+38.00	72.00'
104	8+00.00	34.87'
105	8+00.00	1.86'
106	8+00.00	0.00'
107	7+75.00	0.00'
108	7+75.00	-37.05'
109	8+60.00	-55.00'
110	10+50.00	-55.00'
111	10+50.00	-71.00'
112	11+23.00	-71.00'
113	11+23.00	-53.00'
114	12+45.00	-38.44'
115	13+16.86	-38.65'
116	13+17.01	0.00'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 150	206324.994	934119.341	1.25" OD IP
IP 151	206267.910	934171.066	1.25" OD IP
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COURSE TABLE		
COURSE	BEARING	DISTANCE
100-101	S 02°18'07" W	31.08'
101-102	N 86°57'23" W	67.51'
102-103	S 82°55'52" W	215.46'
103-104	N 77°55'15" W	240.88'
104-105	N 03°12'46" E	33.01'
105-106	N 03°12'46" E	1.86'
106-107	N 86°47'14" W	25.00'
107-108	N 03°12'46" E	37.05'
108-109	N 81°17'28" E	86.87'
109-110	S 86°47'14" E	190.00'
110-111	N 03°12'46" E	16.00'
111-112	S 86°47'14" E	73.00'
112-113	S 03°12'46" W	18.00'
113-114	S 79°58'57" E	122.87'
114-115	S 86°57'23" E	71.86'
115-116	S 02°59'25" W	38.65'
116-100	S 02°59'25" W	2.27'

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W NEW	ACRES EXISTING	ACRES TOTAL	TLE ACRES
1	STEVE VUE AND XIA YANG VUE	FEE/TLE	0.144	0.405	0.549	0.011
2	CLAYTON NOOYEN, SR. AND PAULINE NOOYEN	FEE/TLE	0.025	0.828	0.853	0.014
3	DALE R. KROPP AND KATHRYN P. KROPP	FEE/TLE	0.195	0.602	0.797	0.054

CONVENTIONAL SYMBOLS

- FOUND IRON PIPE/PIVOT (IF UNLESS NOTED)
- R/W MONUMENT
- R/W STANDARD
- SIGN
- SECTION CORNER MONUMENT
- SECTION CORNER SYMBOL
- FEE (HATCH VARIES)
- TEMPORARY LIMITED EASEMENT
- PERMANENT LIMITED EASEMENT
- R/W BOUNDARY POINT
- PARCEL NUMBER
- UTILITY NUMBER
- SIGN NUMBER (OFF PREMISE)
- BUILDING
- PROPOSED R/W LINE
- EXISTING H.E. LINE
- PROPERTY LINE
- LOT & TIE LINES
- SLOPE INTERCEPTS
- CORPORATE LIMITS
- RESTRICTED ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
- RESTRICTED ACCESS (BY ACQUISITION)
- NO ACCESS (BY STATUTORY AUTHORITY)
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- EXISTING CENTERLINE
- PROPOSED REFERENCE LINE
- PARALLEL OFFSET

CONVENTIONAL ABBREVIATIONS

- ACCESS POINT/ DRIVEWAY CONNECTION
- ACCESS RIGHTS
- ACRES
- AND OTHERS
- CENTERLINE
- CERTIFIED SURVEY MAP
- CORNER
- DOCUMENT
- EASEMENT
- HIGHWAY EASEMENT
- LAND CONTRACT
- MONUMENT
- PAGE
- PERMANENT LIMITED EASEMENT
- PROPERTY LINE
- RECORDED AS
- AP
- REFERENCE LINE
- RELEASE OF RIGHTS
- REMAINING
- RIGHT-OF-WAY
- SECTION
- C/L
- STATION
- TEMPORARY LIMITED EASEMENT
- VOLUME
- CURVE DATA
- LONG CHORD
- LONG CHORD BEARING
- RADIUS
- DEGREE OF CURVE
- CENTRAL ANGLE OR DELTA
- LENGTH OF CURVE
- TANGENT
- R/L
- ROR
- REM.
- R/W
- SEC.
- STA.
- TLE
- V.
- LCH
- LCH
- R
- D
- DELTA
- L
- TAN

CONVENTIONAL UTILITY SYMBOLS

- WATER
- GAS
- TELEPHONE
- OVERHEAD
- TRANSMISSION LINES
- ELECTRIC
- CABLE TELEVISION
- FIBER OPTIC
- SANITARY SEWER
- STORM SEWER
- NON COMPENSABLE
- COMPENSABLE
- POWER POLE
- TELEPHONE POLE
- TELEPHONE PEDESTAL
- ELECTRIC TOWER

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, SHAWANO COUNTY, NAD 83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" x 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 156 ESTABLISHED FROM PREVIOUS PROJECT 50114(2), CSM 3310, AND EXISTING CENTERLINE. EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 55 ESTABLISHED FROM PREVIOUS PROJECT 6524-01-21, 50114(2), AND EXISTING CENTERLINE.

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

PREVIOUS ACCESS CONTROL ESTABLISHED FROM PREVIOUS RW PROJECT 6524-01-21.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

REFERENCE LINE IS NOT COINCIDENT WITH SECTION LINE.

DOC # 713818
Recorded
January 25, 2016 12:42 PM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: \$25.00
Slide B-311

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6580-11-20-4.01
AMENDMENT NO:

emcs

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 6580-11-20-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
Brent L. Stella
(SIGNATURE)
(PRINTED NAME) Brent L. Stella
DATE: 1-13-2016
DATE: 1-14-16

FOUND IRON PIPE/PIN
R/W MONUMENT
R/W STANDARD
SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED
EASEMENT
PERMANENT LIMITED
EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY NUMBER
SIGN NUMBER
(OFF PREMISE)
BUILDING

CONVENTIONAL SYMBOLS

(IF UNLESS NOTED)
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
RESTRICTED ACCESS
(BY PREVIOUS ACQUISITION/CONTROL)
RESTRICTED ACCESS
(BY ACQUISITION)
NO ACCESS
(BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/
DRIVEWAY CONNECTION
ACCESS RIGHTS
ACRES
AND OTHERS
CENTERLINE
CERTIFIED SURVEY MAP
CORNER
DOCUMENT
EASEMENT
HIGHWAY EASEMENT
LAND CONTRACT
MONUMENT
PAGE
PERMANENT LIMITED EASEMENT
PROPERTY LINE
RECORDED AS
AP
AR
AC.
ET. AL.
C/L
CSM
COR.
DOC.
EASE.
H.E.
LC
MON.
P.
PL
PL
PL
(100')

CURVE DATA

LONG CHORD
LONG CHORD BEARING
RADIUS
DEGREE OF CURVE
CENTRAL ANGLE OR DELTA
LENGTH OF CURVE
TANGENT

CONVENTIONAL UTILITY SYMBOLS

WATER
GAS
TELEPHONE
OVERHEAD
TRANSMISSION LINES
ELECTRIC
CABLE TELEVISION
FIBER OPTIC
SANITARY SEWER
STORM SEWER
NON
COMPENSABLE
COMPENSABLE
POWER POLE
TELEPHONE POLE
TELEPHONE PEDESTAL
ELECTRIC TOWER

TRANSPORTATION PROJECT PLAT NO: 6580-11-20 - 4.02

THAT PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 28 AND ALSO THE
NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 33, ALL BEING LOCATED IN TOWNSHIP 25
NORTH, RANGE 18 EAST, TOWN OF MAPLE GROVE, SHAWANO COUNTY, WISCONSIN

RELOCATION ORDER STH 156 (STH 55 - STH 29) SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE,
THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND
INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION
HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS Laid OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN
THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC # 713019
Recorded
January 25, 2016 12:42 PM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: \$25.00
Slide 3-311

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6580-11-20-4.02
AMENDMENT NO:

TOWN

COURSE	BEARING	DISTANCE
SE SEC. 28-201	S 02°00'37" W	0.98'
201-202	S 02°00'37" W	36.43'
202-203	SEE CURVE DATA ON SHEET	
203-204	S 81°09'55" W	260.10'
204-205	N 88°12'05" W	280.46'
205-206	N 70°24'13" W	48.22'
206-207	N 01°28'19" W	35.66'
207-208	N 01°28'19" W	0.34'
208-209	N 01°28'19" W	36.00'
209-210	N 88°31'42" E	45.00'
210-211	N 74°18'52" E	51.58'
211-212	N 87°11'29" E	300.08'
212-213	N 83°57'54" E	200.64'
213-214	N 88°35'40" E	70.65'
214-215	S 00°57'05" E	36.19'
215-216	SEE CURVE DATA ON SHEET	
216-SE SEC 28	S 02°35'59" W	34.66'

SE/SE

NE/NE

POINT NO.	STATION	OFFSET
SE OF 28	52+59.86	-0.98'
201	52+59.82	0.00'
202	52+58.27	36.40'
203	51+37.96	35.67'
204	48+80.00	69.00'
205	46+00.00	53.00'
206	45+55.00	35.66'
207	45+55.00	0.00'
208	45+55.00	-0.34'
209	45+55.00	-36.34'
210	46+00.00	-36.34'
211	46+50.00	-49.00'
212	49+50.00	-56.00'
213	51+50.00	-71.96'
214	52+20.04	-72.00'
215	52+20.04	-35.81'
216	52+61.66	-35.59'

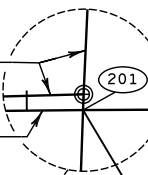
POINT NO.	STATION	OFFSET
TLE250	52+17.32	36.17'
TLE251	52+17.30	55.00'
TLE252	50+56.68	46.17'
TLE253	48+80.00	87.03'
TLE254	48+31.79	85.00'
TLE255	48+20.00	65.57'
TLE256	45+90.00	-36.34'
TLE257	45+90.00	-49.00'
TLE258	48+50.00	-53.67'
TLE259	48+77.00	-73.00'
TLE260	49+40.00	-74.00'
TLE261	49+84.00	-58.71'

STH 156

CURVE 1 DATA

PI = 53+16.83
Y = 206140.172
X = 939385.222
T = 126.46
L = 252.83
R = 3742.89
DELTA = 03°52'13" RT
D = 01°31'51"
LCH = 252.78
LCB = S89°32'12"E
PT = 54+43.20
DA = S87°36'06"E

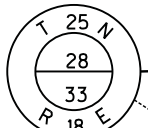
215-216
L = 42.02
LCH = 42.02
LCB = N89°35'38"E
R = 5765.65
DELTA = 00°25'03" RT



STA 52+59.82
Y=206138.063
X=939328.234



FOUND (SNM)
SURVEY NAIL
Y=206139.042
X=939328.278



FOUND (SNM)
SURVEY NAIL
Y=206071.535
X=936700.776

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, SHAWANO COUNTY,
NAD 83 (1999) IN SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS,
AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" x 24" REBAR) AND WILL BE
PLACED PRIOR TO THE COMPLETION OF THE PROJECT.
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 156 ESTABLISHED FROM PREVIOUS PROJECT S014(3) AND EXISTING
CENTERLINE.

NO PREVIOUS ACCESS CONTROL EXISTS.

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

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION
OFFICE IN RHINELANDER.

REFERENCE LINE IS NOT COINCIDENT WITH SECTION LINE.

POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP 250	206141.461	938016.506	1.0" OD IP

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS
201	CENTURYTEL OF CENTRAL WISCONSIN, LLC D/B/A CENTURYLINK	RELEASE OF RIGHTS

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W NEW	ACRES EXISTING	ACRES TOTAL	TLE ACRES
4	DEAN ALLEN FEMLING, MARK ANTHONY FEMLING, JOSEPH RAE FEMLING, PAUL THOMAS FEMLING, NORMAN JOHN FEMLING, ANN MARGARET CUMBERS, AND WILLIAM JOSEPH FEMLING	FEE/TLE	0.023	0.622	0.645	0.010
6	RUEDEN'S EDEN FARMS & APARTMENTS LLC	FEE/TLE	0.542	1.049	1.591	0.065
7	DANIEL J. RYNISH AND KIM M. RYNISH	FEE/TLE	0.010	0.167	0.177	0.045

- (200) WISCONSIN ELECTRIC POWER COMPANY D/B/A WE ENERGIES (ELECTRIC)
DOC. 233058 - PAR. 6, 7
DOC. 186261 - PAR. 6, 7
- (201) CENTURYTEL OF CENTRAL WISCONSIN, LLC D/B/A CENTURYLINK
DOC. 307843 - PAR. 6, 7

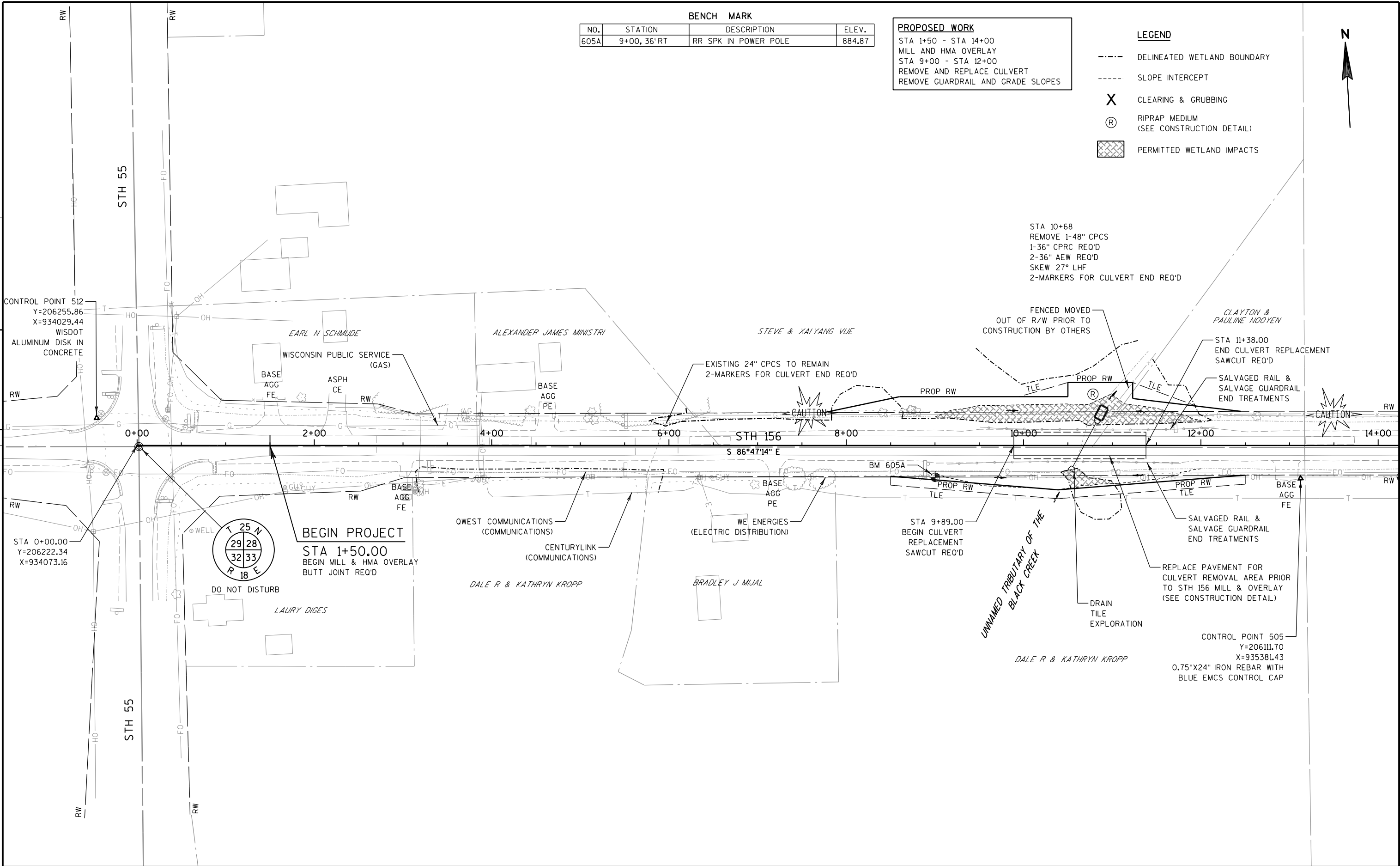
GN

0 50 100
SCALE, FEET

emcs

I, KEVIN C. BOYER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL
COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES
AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED
TRANSPORTATION PROJECT PLAT 6580-11-20-4.02 AND THAT SUCH PLAT
CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer
PROFESSIONAL LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE
APPROVED FOR THE WISCONSIN DEPARTMENT
OF TRANSPORTATION
(SIGNATURE) Brent L. Stalla DATE: 1-13-16
(PRINTED NAME) Brent L. Stalla



PROPOSED WORK

STA 14+00 - STA 29+00
MILL AND HMA OVERLAY

LEGEND

----- DELINEATED WETLAND BOUNDARY

BENCH MARK

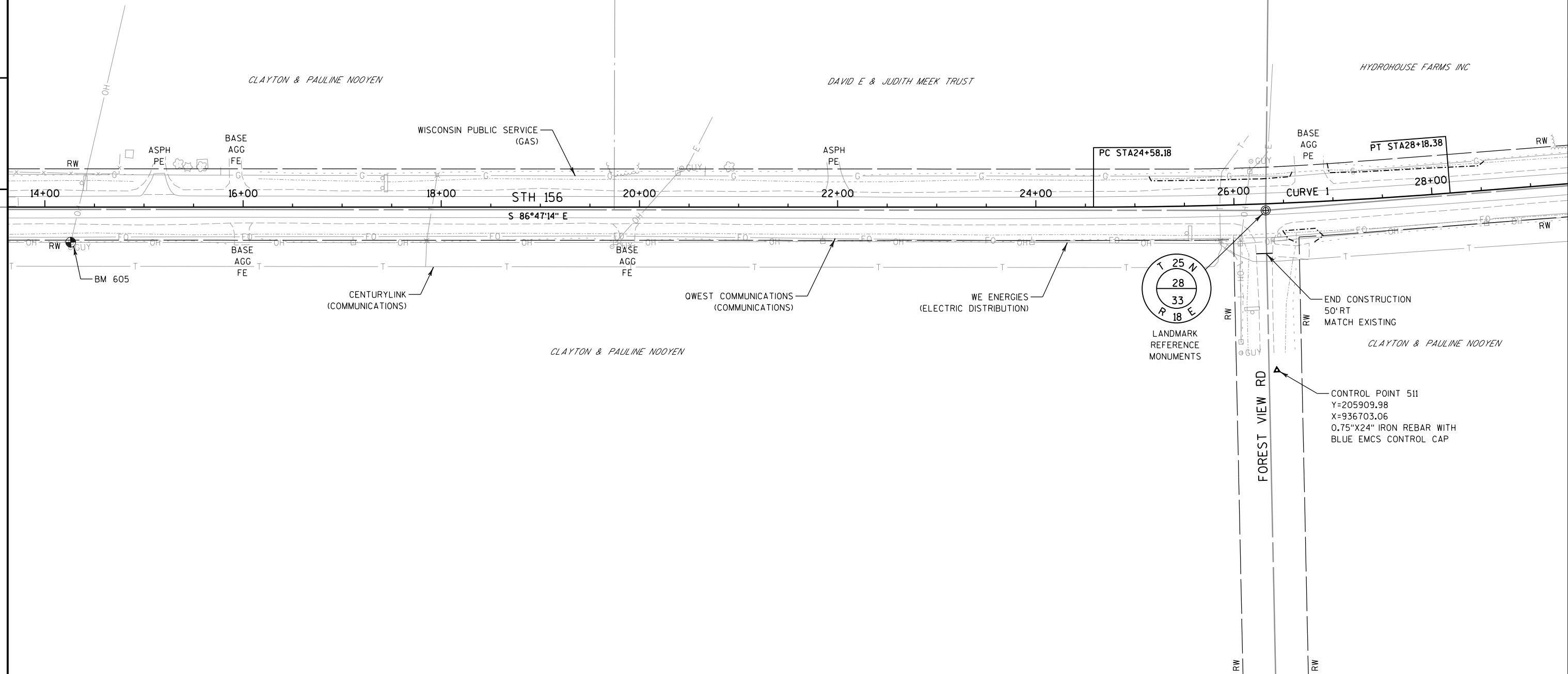
NO.	STATION	DESCRIPTION	ELEV.
605	14+26, 36' RT	RR SPK IN POWER POLE	885.55

CURVE 1

PI = STA 26+38.28
Y = 206074.48
X = 936707.39
PC = STA 24+58.18
Y = 206084.58
X = 936527.48
PT = STA 28+18.38
Y = 206078.55
X = 936887.54
DELTA = 04°30'21" LT
T = 180.19'
L = 360.20'
R = 4580.37'
EXISTING SE = LT -3% RT -2%
PROPOSED SE = 3.3%
SE TRANSITION (T) = 141'
RO (RUNOFF) = 88'



5



5

PROJECT NO: 6580-11-60

HWY: STH 156

COUNTY: SHAWANO

PLAN

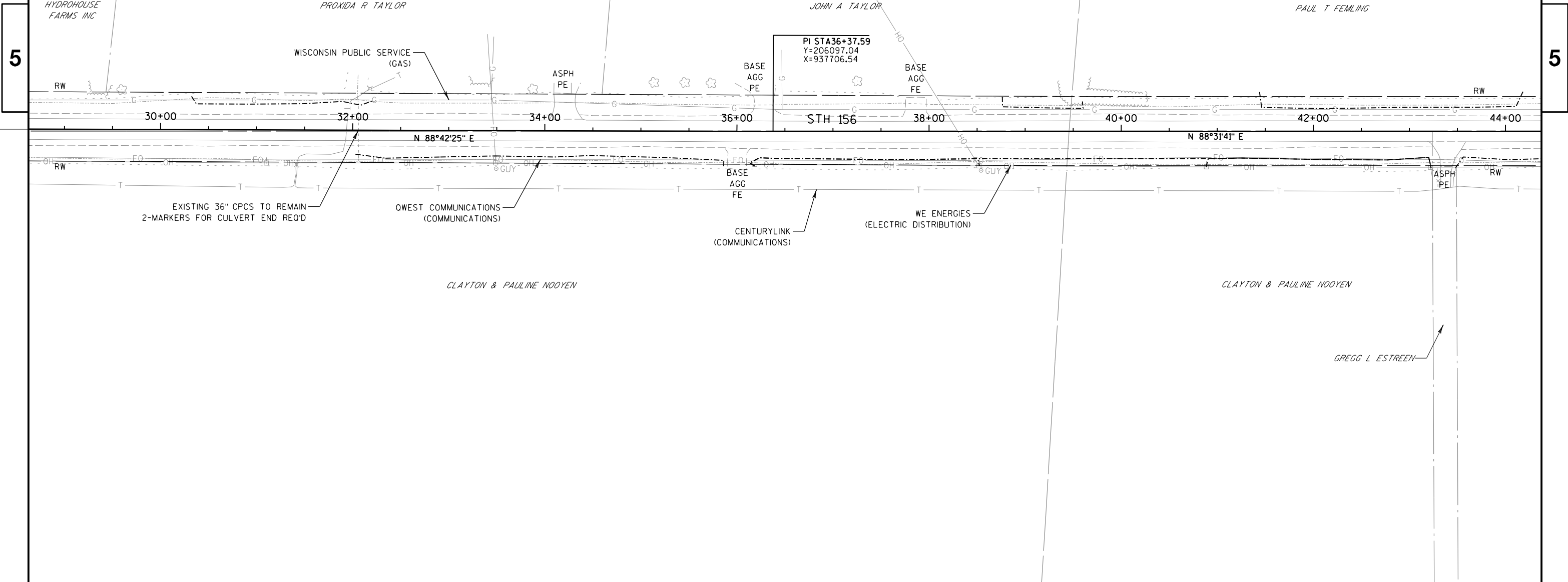
SHEET

E

PROPOSED WORK
STA 29+00 - STA 44+00
MILL AND HMA OVERLAY

LEGEND

--- DELINEATED WETLAND BOUNDARY



PROJECT NO: 6580-11-60

HWY: STH 156

COUNTY: SHAWANO

PLAN

SHEET

5

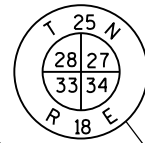
PROPOSED WORK
STA 44+00 - STA 46+00
STA 52+10 - STA 59+00
MILL AND HMA OVERLAY
STA 46+00 - STA 52+10
REMOVE CULVERTS
REMOVE GUARDRAIL
CONSTRUCT NEW BOX CULVERT C-58-92
RECONSTRUCT ROADWAY APPROACHES

STA 47+61 - STA 51+17, LT
MGS GUARDRAIL 3 L
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
(SEE STANDARD DETAIL DRAWINGS)

STA 49+00
REMOVING OLD STRUCTURE C-58-90
1-36" CPCS AND 1-72"x45" PACS

STA 48+95
STRUCTURE C-58-92 REQ'D
1 CELL 4'x10' BOX CULVERT
SKEW 28° LHF
2-MARKERS FOR CULVERT END REQ'D

LANDMARK
REFERENCE
MONUMENTS

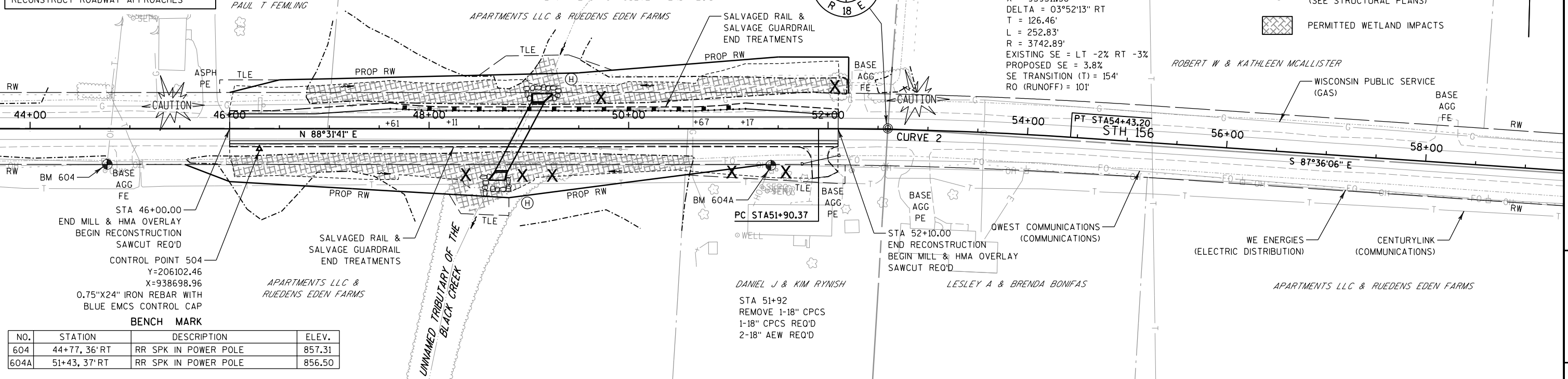


CURVE 2

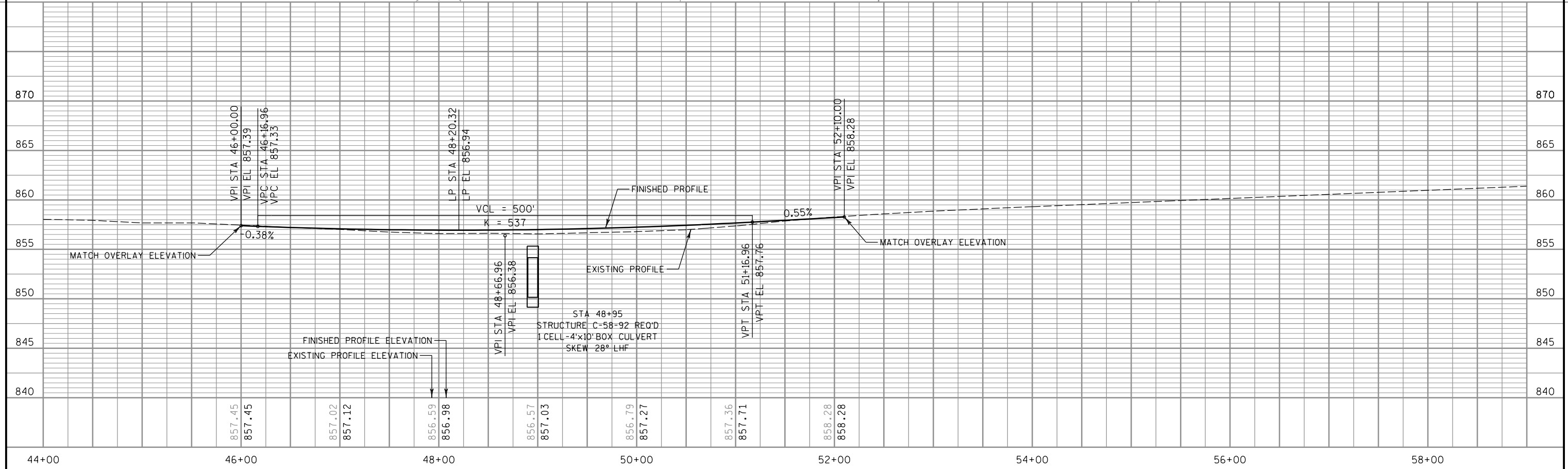
PI = STA 53+16.83
Y = 206140.17
X = 939385.22
PC = STA 51+09.37
Y = 206136.92
X = 939258.80
PT = STA 54+43.20
Y = 206134.88
X = 939511.58
DELTA = 03°52'13" RT
T = 126.46'
L = 252.83'
R = 3742.89'
EXISTING SE = LT -2% RT -3%
PROPOSED SE = 3.8%
SE TRANSITION (T) = 154'
RO (RUNOFF) = 101'

LEGEND

- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT
- X CLEARING & GRUBBING
- (H) RIPRAP HEAVY (SEE STRUCTURAL PLANS)
- [Hatched Box] PERMITTED WETLAND IMPACTS



NO.	STATION	DESCRIPTION	ELEV.
604	44+77, 36' RT	RR SPK IN POWER POLE	857.31
604A	51+43, 37' RT	RR SPK IN POWER POLE	856.50



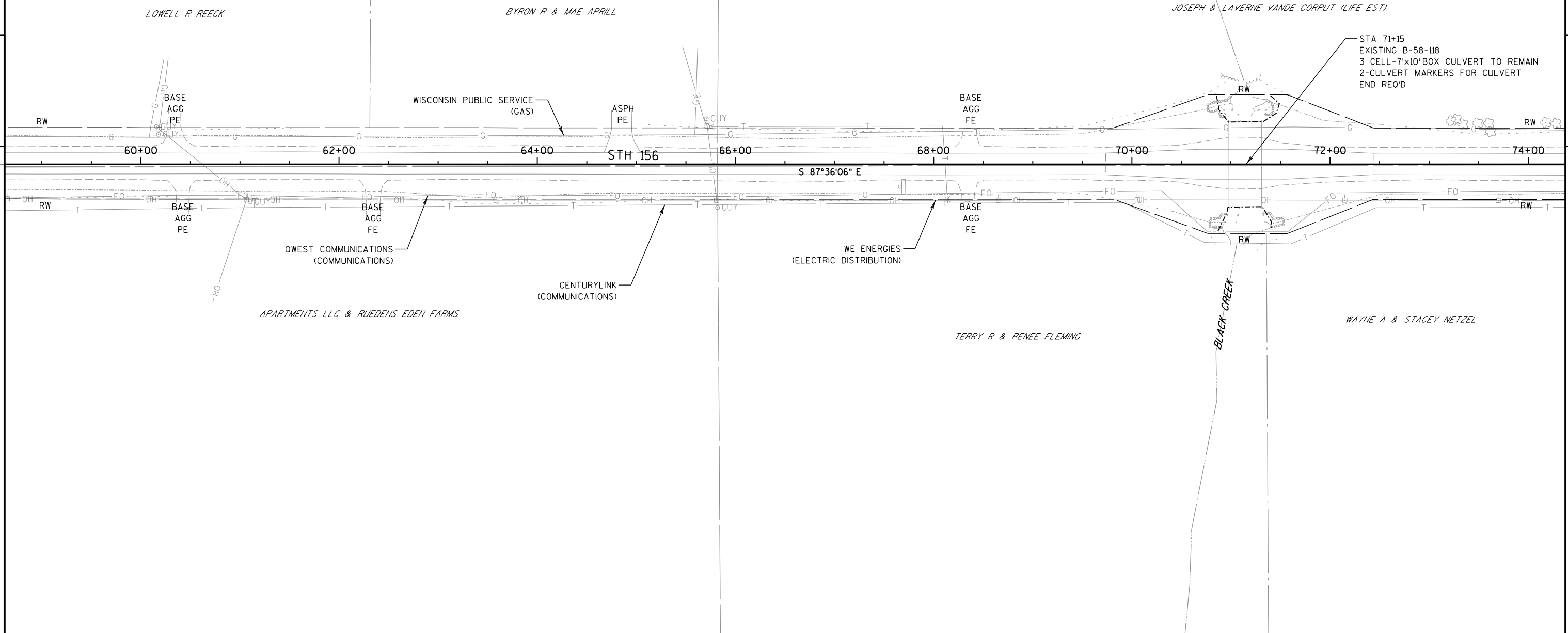
PROPOSED WORK
STA 59+00 - STA 74+00
MILL AND HMA OVERLAY

LEGEND
- - - - - DELINEATED WETLAND BOUNDARY



5

5



PROJECT NO: 6580-11-60	HWY: STH 156	COUNTY: SHAWANO	PLAN	SHEET	E
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PROPOSED WORK

STA 74+00 - STA 89+00
MILL AND HMA OVERLAY

LEGEND

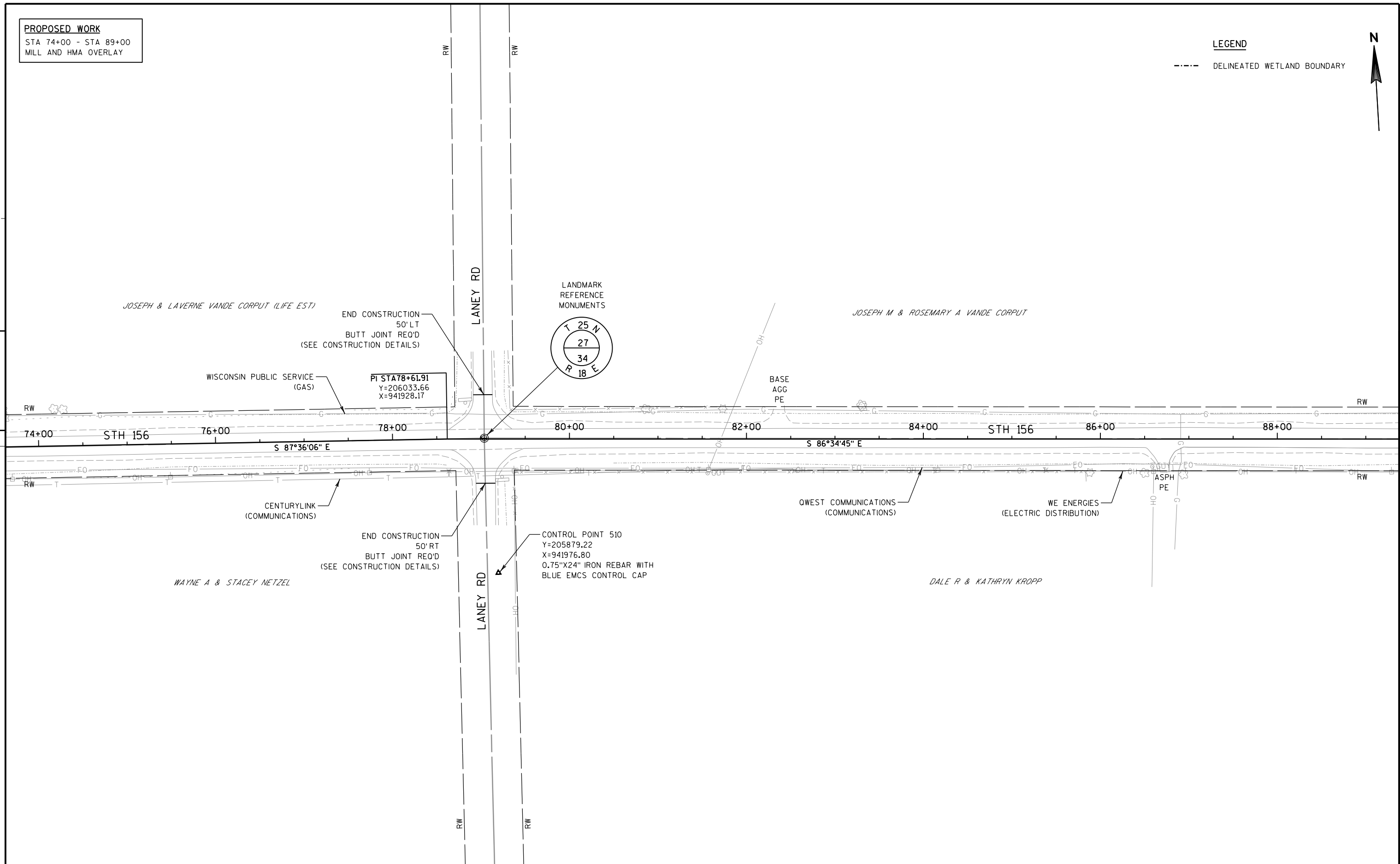
----- DELINEATED WETLAND BOUNDARY

N



5

5



PROJECT NO: 6580-11-60

HWY: STH 156

COUNTY: SHAWANO

PLAN

SHEET

E

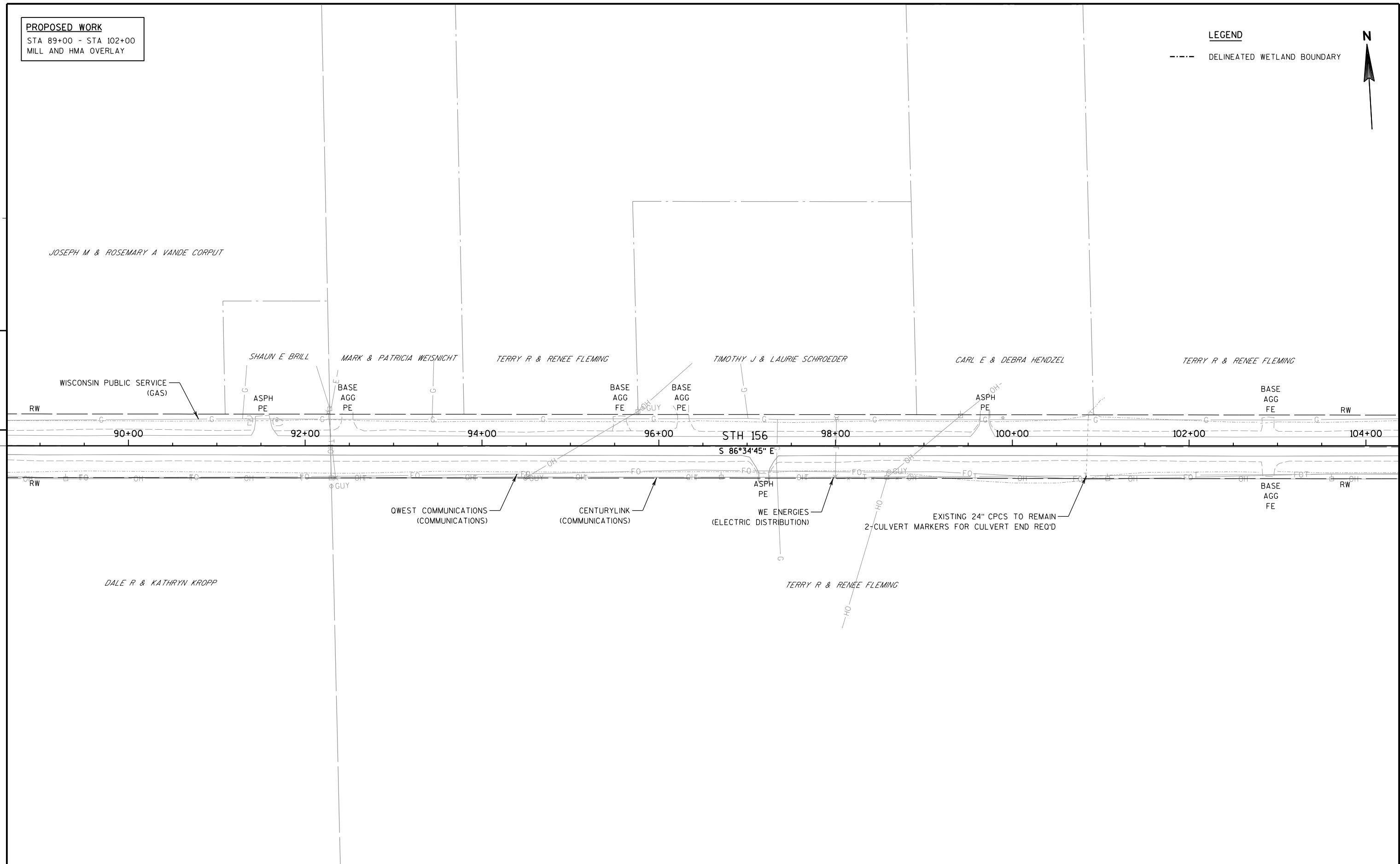
PROPOSED WORK
STA 89+00 - STA 102+00
MILL AND HMA OVERLAY

LEGEND
- - - - - DELINEATED WETLAND BOUNDARY



5

5



PROJECT NO: 6580-11-60	HWY: STH 156	COUNTY: SHAWANO	PLAN	SHEET	E
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PROPOSED WORK
STA 102+00 - STA 119+00
MILL AND HMA OVERLAY

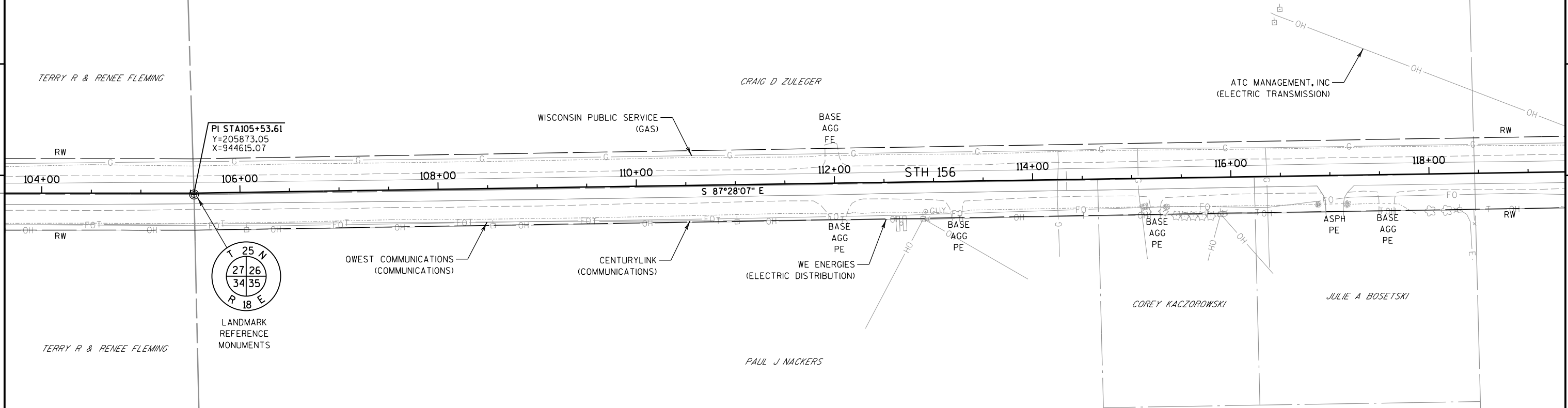
LEGEND

----- DELINEATED WETLAND BOUNDARY



5

5



PROJECT NO: 6580-11-60

HWY: STH 156

COUNTY: SHAWANO

PLAN

SHEET

E

PROPOSED WORK
STA 119+00 - STA 134+00
MILL AND HMA OVERLAY

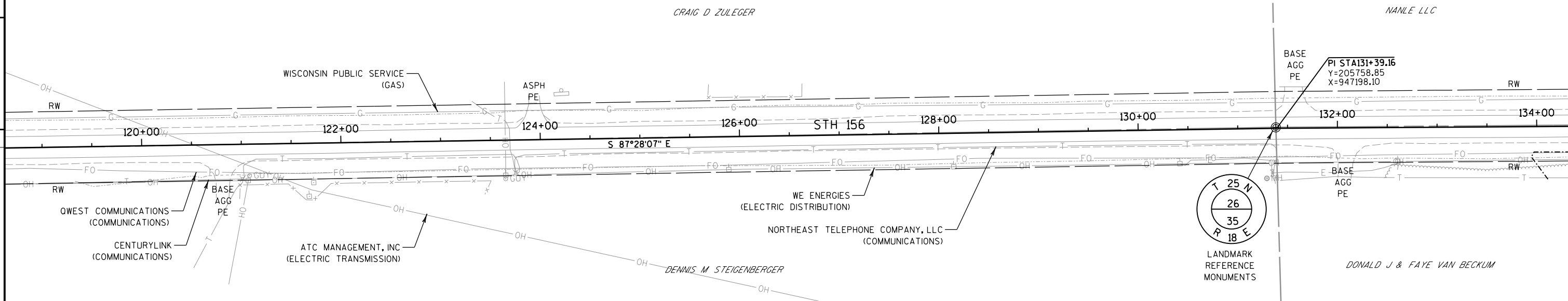
LEGEND

----- DELINEATED WETLAND BOUNDARY



5

5



PROJECT NO: 6580-11-60

HWY: STH 156

COUNTY: SHAWANO

PLAN

SHEET

E

FILE NAME : P:\48xx\4801-4802-DP.13.STH156-STH29.SHA\CADDs\Plan\4801-STH 156\050209_pn.dgn

PLOT DATE : 11/29/2016

PLOT BY : sgc

PLOT NAME :

PLOT SCALE : 1:100

WISDOT/CADDs SHEET 44

PROPOSED WORK
STA 134+00 - STA 149+00
MILL AND HMA OVERLAY

LEGEND

----- DELINEATED WETLAND BOUNDARY

N

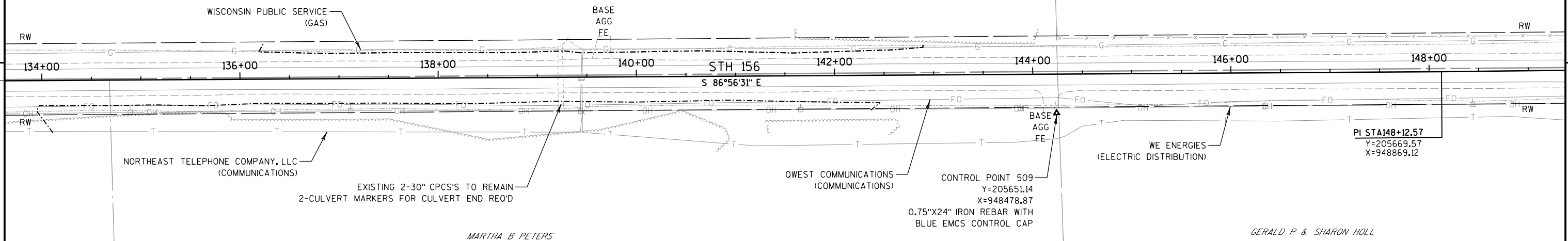


5

5

NANLE LLC

NANLE LLC



PROPOSED WORK

STA 149+00 - STA 164+00
MILL AND HMA OVERLAY

LEGEND

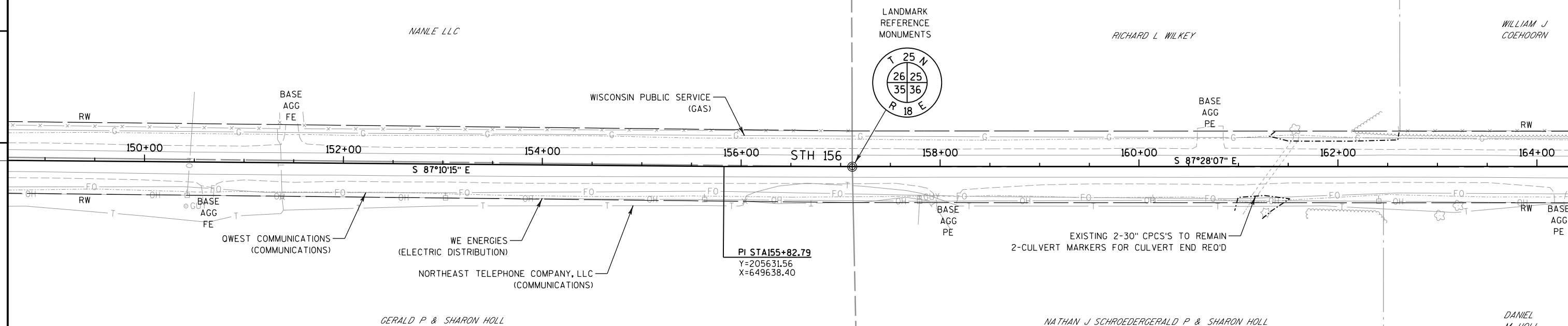
--- DELINEATED WETLAND BOUNDARY

N



5

5



PROJECT NO: 6580-11-60

HWY: STH 156

COUNTY: SHAWANO

PLAN

SHEET

E

FILE NAME : P:\48xx\4801-4802-DP.13.STH156-STH29.SHA\CADD\PIan\4801-STH 156\050211-pr.dgn

PLOT DATE : 11/29/2016

PLOT BY : sgc

PLOT NAME :

PLOT SCALE : 1:100

WISDOT/CADDs SHEET 44

PROPOSED WORK
STA 164+00 - STA 179+00
MILL AND HMA OVERLAY

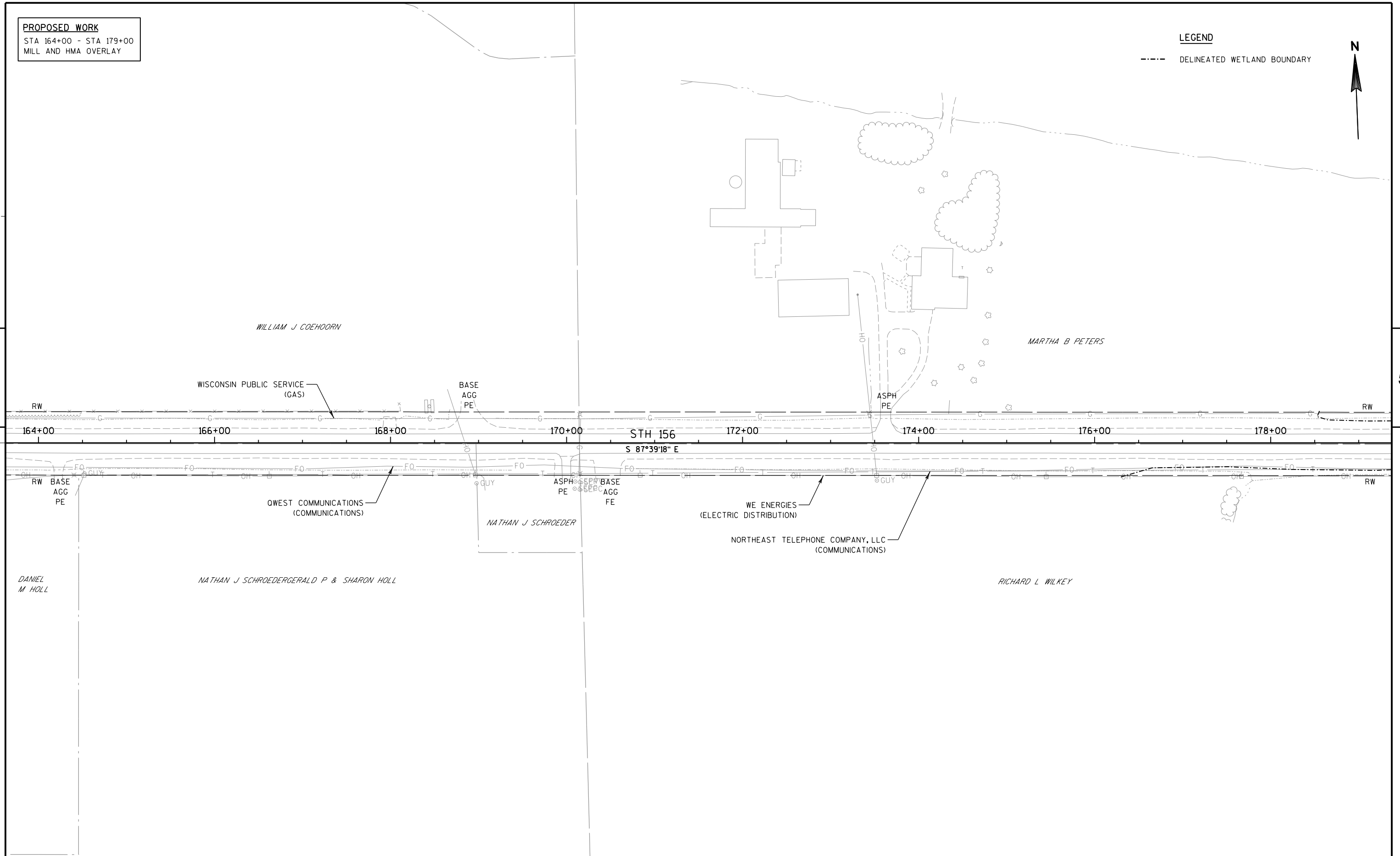
LEGEND

--- DELINEATED WETLAND BOUNDARY



5

5



PROJECT NO:6580-11-60	HWY:STH 156	COUNTY:SHAWANO	PLAN	SHEET	E
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PROPOSED WORK
STA 179+00 - STA 194+00
MILL AND HMA OVERLAY

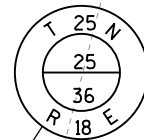
LEGEND

--- DELINEATED WETLAND BOUNDARY



UNNAMED TRIBUTARY OF WEST BRANCH OF
THE SUAMCO RIVER

LANDMARK
REFERENCE
MONUMENTS



EXISTING 2-30" CPCS'S TO REMAIN
2-CULVERT MARKERS FOR
CULVERT END REQ'D

PI STA 183+07.41
Y=205520.07
X=952360.74

WISCONSIN PUBLIC SERVICE
(GAS)

BASE
AGG
FE

STH 156

S 89°13'55" E

QWEST COMMUNICATIONS
(COMMUNICATIONS)

MH

BASE
AGG
FE

WE ENERGIES
(ELECTRIC DISTRIBUTION)

ASPH
PE

ASPH
PE

BASE
AGG
FE

NORTHEAST TELEPHONE COMPANY, LLC
(COMMUNICATIONS)

RICHARD L. WILKEY

NANCY M. VAN DYKE

RICHARD J. &
OTHERS
MISKOWIAK

BAUMGART MARITAL TRUST

PROJECT NO: 6580-11-60

HWY: STH 156

COUNTY: SHAWANO

PLAN

SHEET

E

PROPOSED WORK
STA 194+00 - STA 196+50
MILL AND HMA OVERLAY

LEGEND

--- DELINEATED WETLAND BOUNDARY



BENCH MARK			
NO.	STATION	DESCRIPTION	ELEV.
603	199+44, 36' RT	RR SPK IN POWER POLE	812.51
603A	194+79, 36' RT	RR SPK IN POWER POLE	813.03

5

5

ST. AUGUSTINE RD 14' A+00

STH 29 EB

EXISTING OLD 29 DR

EXISTING STH 156

PC STA206+22.22

208+00

STH 156

204+00

202+00

200+00

198+00

196+00

194+00

END PROJECT
STA 196+50.00
END MILL & HMA OVERLAY
MATCH PROJECT 1058-25-70

S 89°13'55" E

S 89°21'38" E

PI STA196+04.26
Y=205502.69
X=953657.48

CONTROL POINT 503
Y=205464.79
X=953944.45
0.75"X24" IRON REBAR WITH
BLUE EMCS CONTROL CAP

SEE PROJECT 1058-25-70

CONSTRUCT NEW OVERPASS AND ROUTE
STH 156 ONTO OLD 29 DR, CLOSE
EXISTING INTERSECTION AT STH 29

SHAWANO COUNTY
BROWN COUNTY

PROJECT NO: 6580-11-60

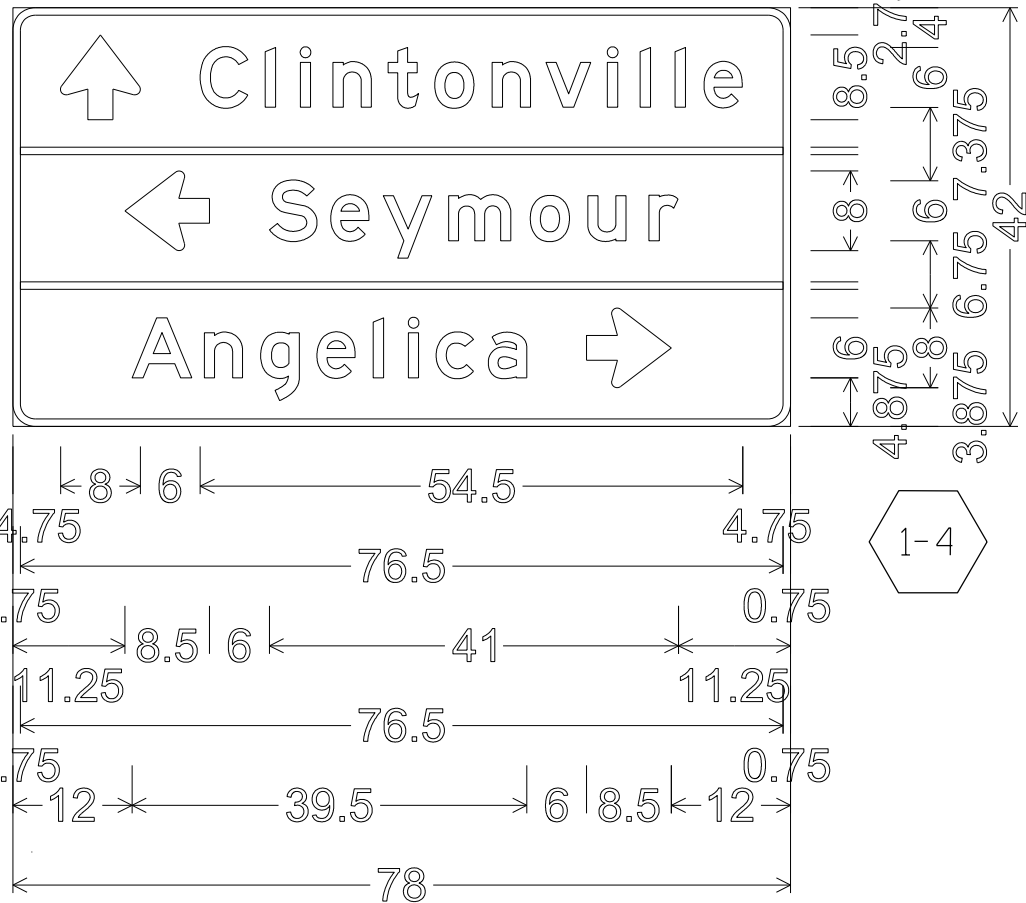
HWY: STH 156

COUNTY: SHAWANO

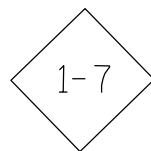
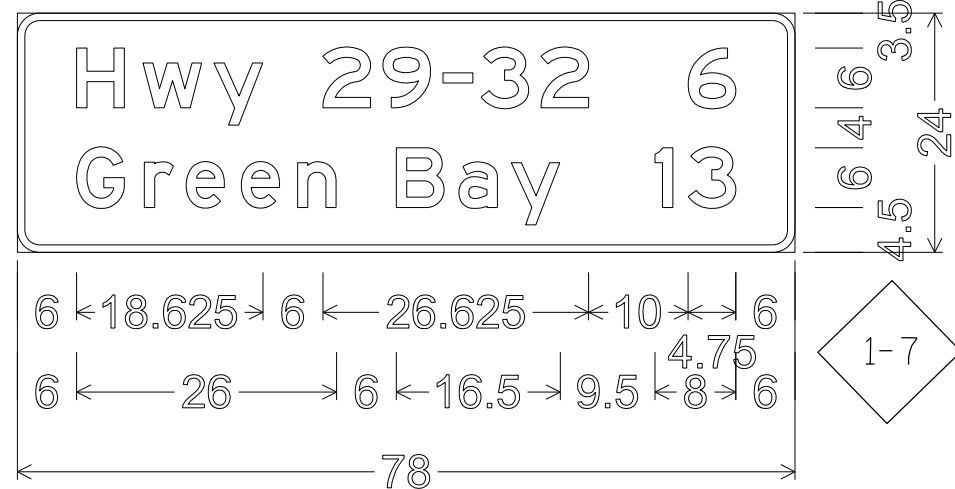
PLAN

SHEET

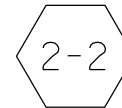
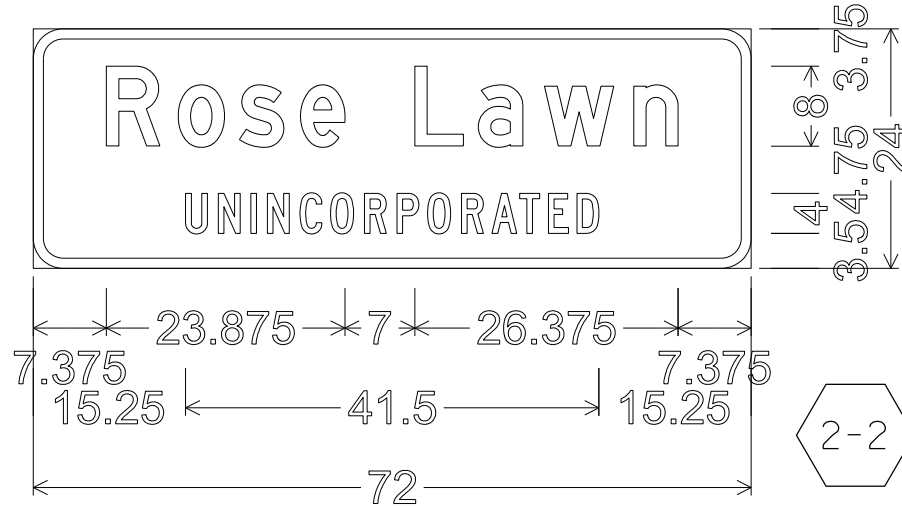
E



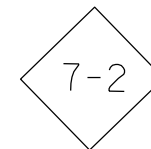
D1-3;
2.250" Radius, 0.750" Border



D2-2;
2.250" Radius, 0.750" Border



I2-3U;
3.000" Radius, 1.000" Border,
"Rose" D; "Lawn" D; "UNINCORPORATED" C



D2-2;
2.250" Radius, 0.750" Border,

NOTES

1. Signs are Type II- Type H Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E except as noted

DESIGN DATA

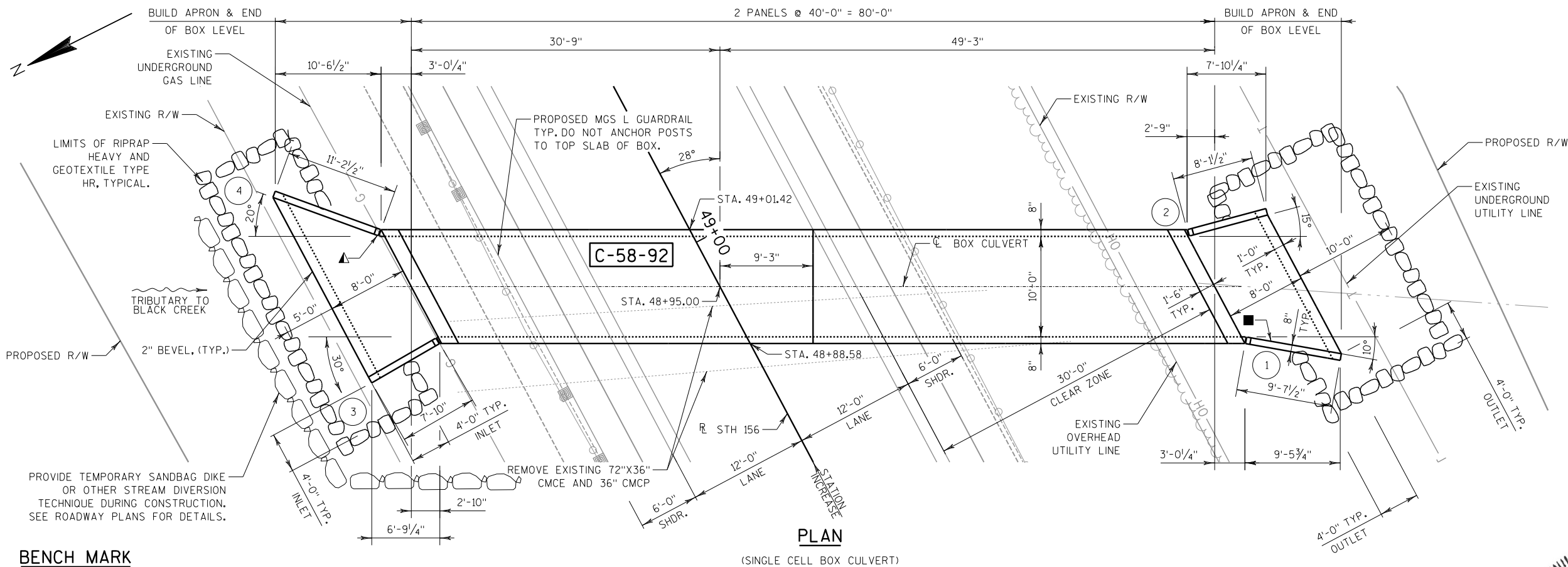
LIVE LOAD: HL-93
INV. RF: 1.05
OPER. RF: 1.35
WIS. STD. PER. VEHICLE = 255 KIPS
EARTH LOAD: DESIGNED FOR FILL
HEIGHT RANGE OF 1 TO 2 FEET.
MATERIAL PROPERTIES:
CONCRETE MASONRY _____ f'c = 3.5 K.S.I.
HIGH STRENGTH BAR STEEL
REINFORCEMENT, GRADE 60 _____ fy = 60 K.S.I.

HYDRAULIC DATA

Q(100) = 280 C.F.S.
VELOCITY - THROUGH STRUCTURE = 9.66 F.P.S.
HIGH WATER ELEVATION, Q(100) = 855.22
WATERWAY AREA = 29.0 SQ. FT.
DRAINAGE AREA = 1.5 SQ. MI.
ROADWAY OVERTOPPING FREQUENCY = N/A
SCOUR CRITICAL CODE = 5
Q(2) = 62 C.F.S.
HIGH WATER EL, Q(2) = 852.42

TRAFFIC DATA

ADT (2017) = 1,800
ADT (2037) = 1,900
RDS = 60 M.P.H.

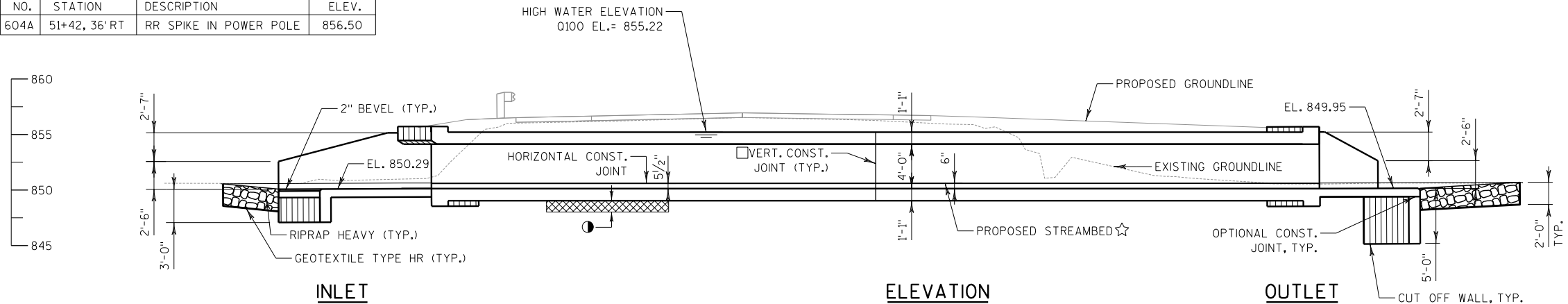


PLAN

(SINGLE CELL BOX CULVERT)

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
604A	51+42, 36' RT	RR SPIKE IN POWER POLE	856.50



INLET

ELEVATION

OUTLET



STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER (608) 266-8489
CONSULTANT: MICHAEL D. RADTKE (414) 347-1607

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

THE CONCRETE IN THE CUT OFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE EXISTING STRUCTURE C-58-90 IS A 72"X36" CMCE AND A 36" CMCP. APPROXIMATELY 50' AND 62' IN LENGTH, RESPECTIVELY.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE PRECAST DETAILS IN CHAPTER 36 OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

SEE ROADWAY PLANS FOR TEMPORARY DIVERSION CHANNEL DETAILS. WORK TO BE PAID FOR UNDER ROADWAY BID ITEMS EXCEPT EXCAVATION FOR TEMPORARY BYPASS CHANNEL WILL BE INCLUDED IN BID ITEM "EXCAVATION FOR STRUCTURES CULVERTS C-58-92".

LEGEND

- (X) INDICATES WING NUMBER
- ▲ FOR CORNER DETAILS, SEE "APRON DETAILS" SHEETS
- FOR NAME PLATE LOCATION, SEE "BOX CULVERT DETAIL" SHEET
- UNDERCUT 1'-0" (INCLUDED IN EXCAVATION FOR STRUCTURES), PLACE GEOTEXTILE TYPE 'C', AND BACKFILL WITH 'BREAKER RUN'. EXTEND 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT.
- PLACE AN 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.
- ☆ THE CULVERT INVERTS WILL BE SET 6" BELOW FINAL STREAM BED IN ORDER TO NOT CAUSE FRAGMENTATION.

LIST OF DRAWINGS

- GENERAL PLAN & ELEVATION
- BOX CULVERT DETAILS 1
- APRON DETAILS 1
- APRON DETAILS 2
- SUBSURFACE EXPLORATION

NO.	DATE	REVISION	BY
emcs^{INC} 1300 W. Canal Street, Suite 200 Milwaukee, WI 53233 414.347.1607 Fax 414.347.1347			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED _____		_____ DATE _____	
CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE C-58-92			
STH 156 OVER TRIBUTARY TO BLACK CREEK			
COUNTY	SHAWANO	TOWN	MAPLE GROVE
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS			
DESIGNED BY	AJC	DESIGN CK'D.	MDR
DRAWN BY	AJC	PLANS CK'D.	MDR
GENERAL PLAN & ELEVATION		SHEET 1 OF 5	

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	INLET	BARREL	OUTLET	TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 49+00	LS	-	-	-	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-58-0092	LS	-	-	-	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	20	220	19	259
311.0110	BREAKER RUN	TON	14	103	12	129
504.0100	CONCRETE MASONRY CULVERTS	CY	8	90	8	106
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	290	12670	290	13250
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	440	-	420	860
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	5	4	5	14
606.0300	RIPRAP HEAVY	CY	15	-	25	40
645.0105	GEOTEXTILE TYPE C	SY	-	205	-	205
645.0120	GEOTEXTILE TYPE HR	SY	21	-	32	53
	NON-BID ITEMS					
	FILLER	SIZE	3/4"			

BILL OF BARS FOR BARREL

BAR MARK	NO.	LENGTH	BENT	BAR SERIES	LOCATION
B601	200	11'-0"			TOP & BOT. SLAB TRANS.
B602	24	6'-0"			TOP & BOT. SLAB TRANS.
B403	48	39'-7"			TOP/BOT. SLAB LONG.
B604	432	7'-10"	X		CORNER BARS
B405	162	4'-3"			WALL VERT.
B406	162	3'-0"			WALL DOWEL
B407	14	36'-6"			WALL HORZ.
B408	14	42'-4"			WALL HORZ.
B509	32	4'-0"			CONST. JT. DOWEL
B810	24	12'-6"			HEADER HORIZ.
B311	18	4'-4"	X		INLET HEADER TOP VERT. TIES
B312	18	4'-7"	X		OUTLET HEADER TOP. VERT. TIES
B313	36	4'-7"	X		HEADERS BOT. VERT. TIES
B414	4	41'-0"			TOP AND BOT. SLAB LONG.
B415	4	38'-6"			TOP AND BOT. SLAB LONG.

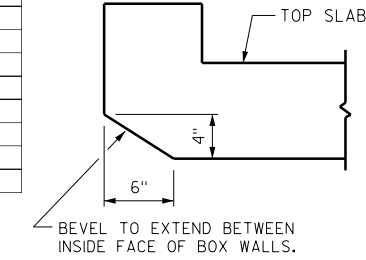
▲ SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

ALL BARS IN BARREL ARE UNCOATED.

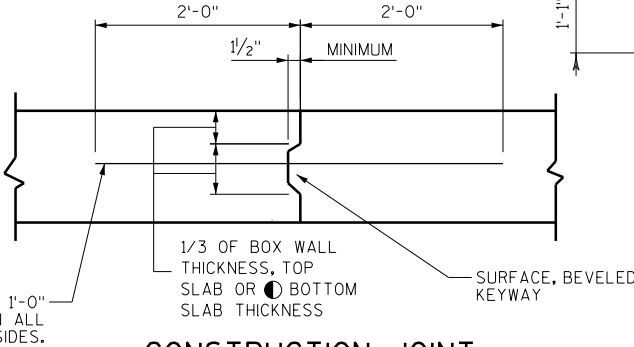
BAR SERIES TABLE

BAR MARK	NO. REQUIRED			LENGTH		
B602	4	SERIES OF	6	2'-6"	TO	9'-6"
B403	4	SERIES OF	12	36'-8"	TO	42'-6"

OPTIONAL CONSTRUCTION JOINT
OMIT 1" FILLET IF OPTIONAL
CONST. JOINT IS USED.

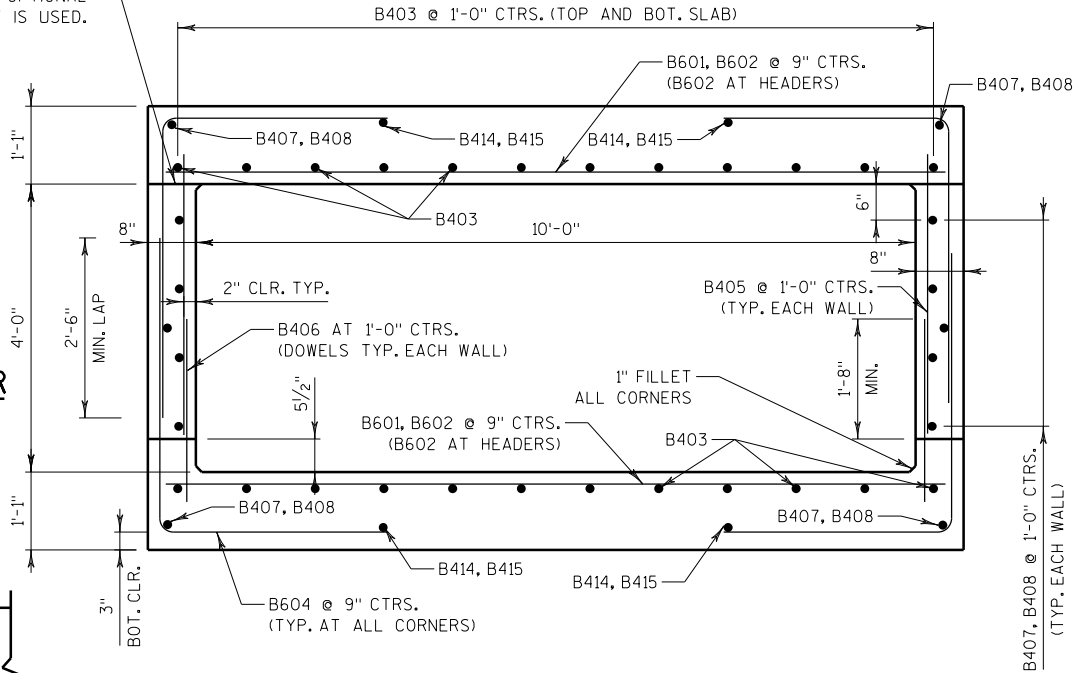


SECTION THRU INLET HEADER

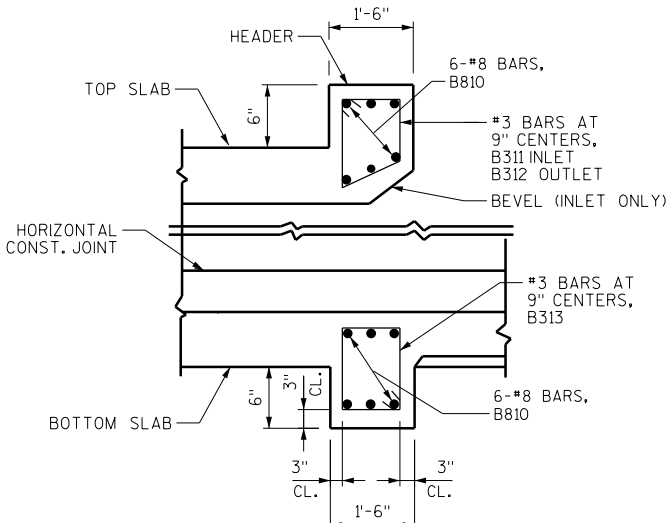


CONSTRUCTION JOINT

● IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.



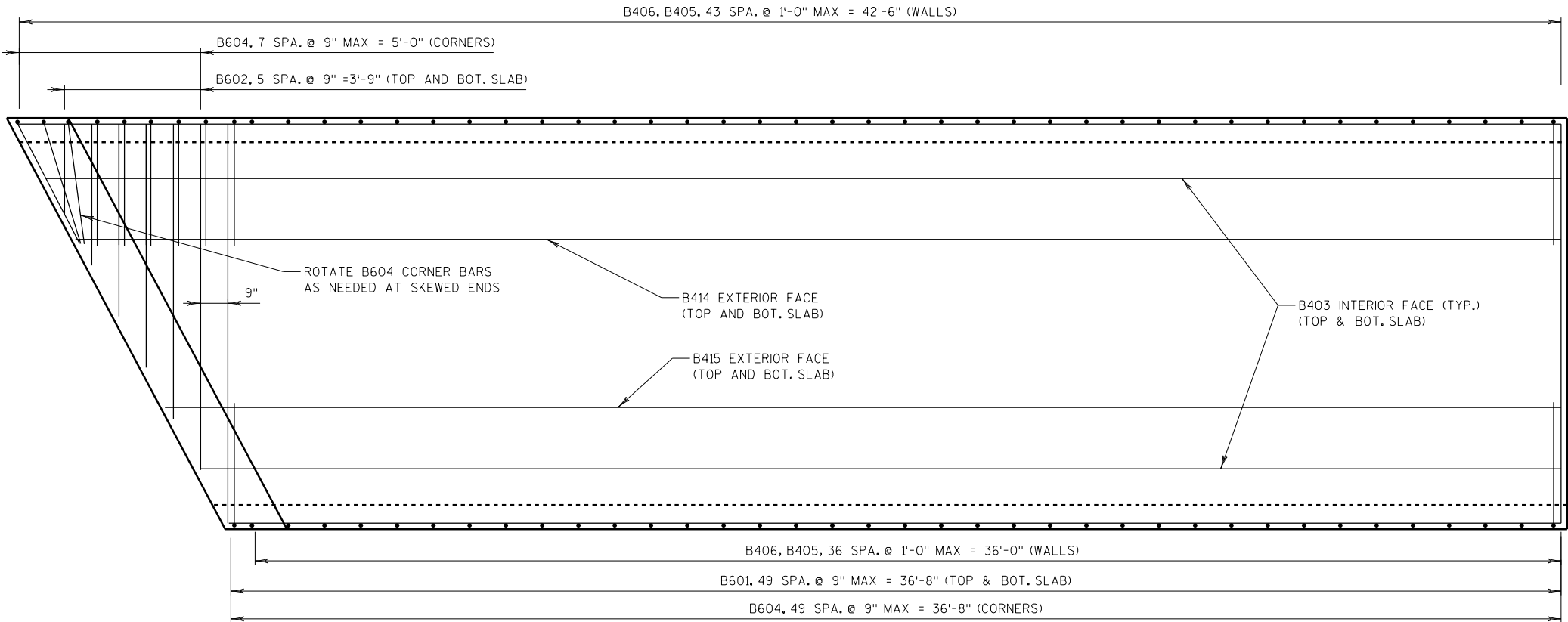
SECTION THRU BOX

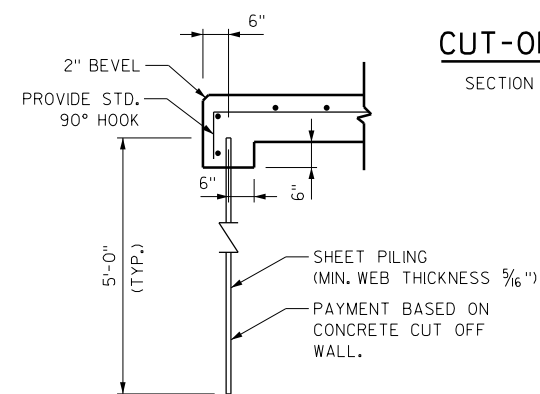
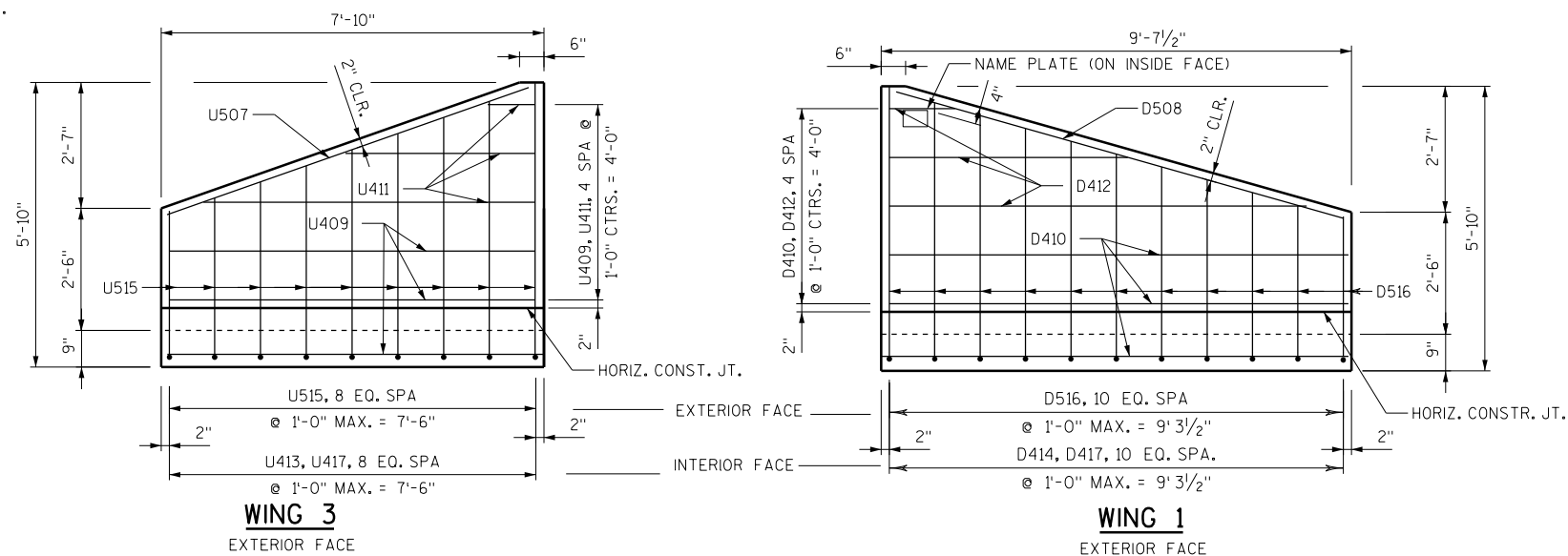
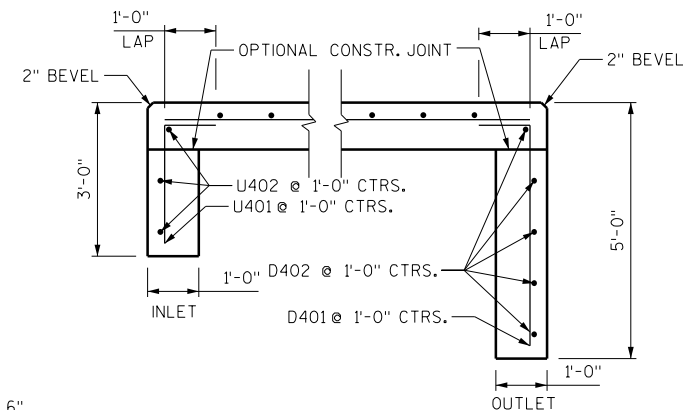
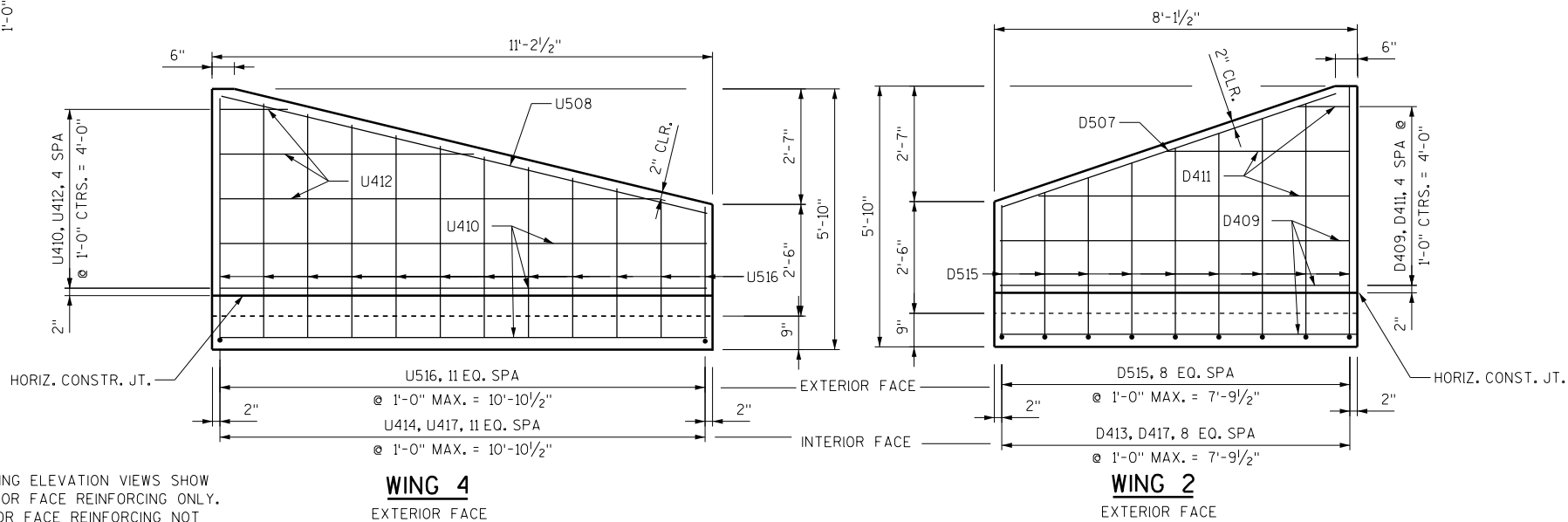
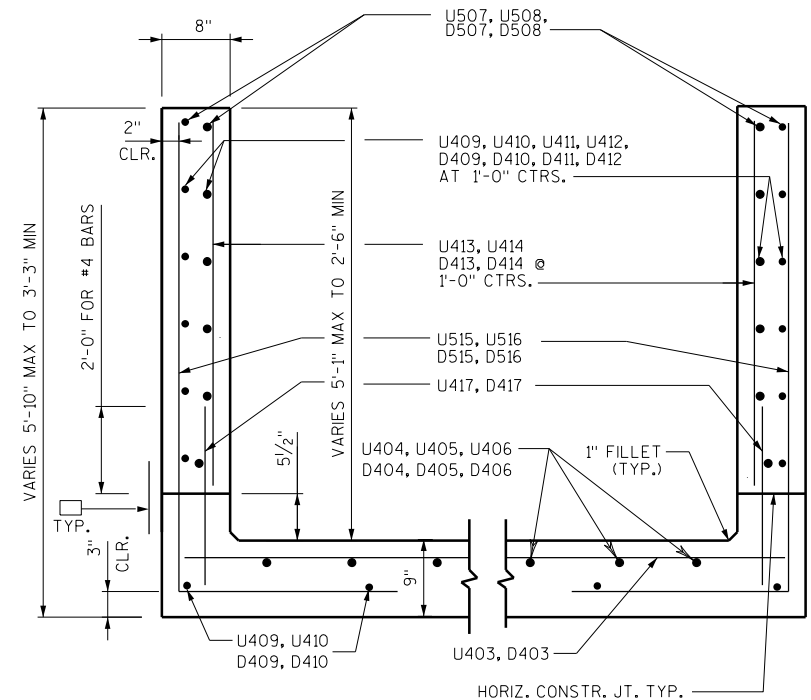
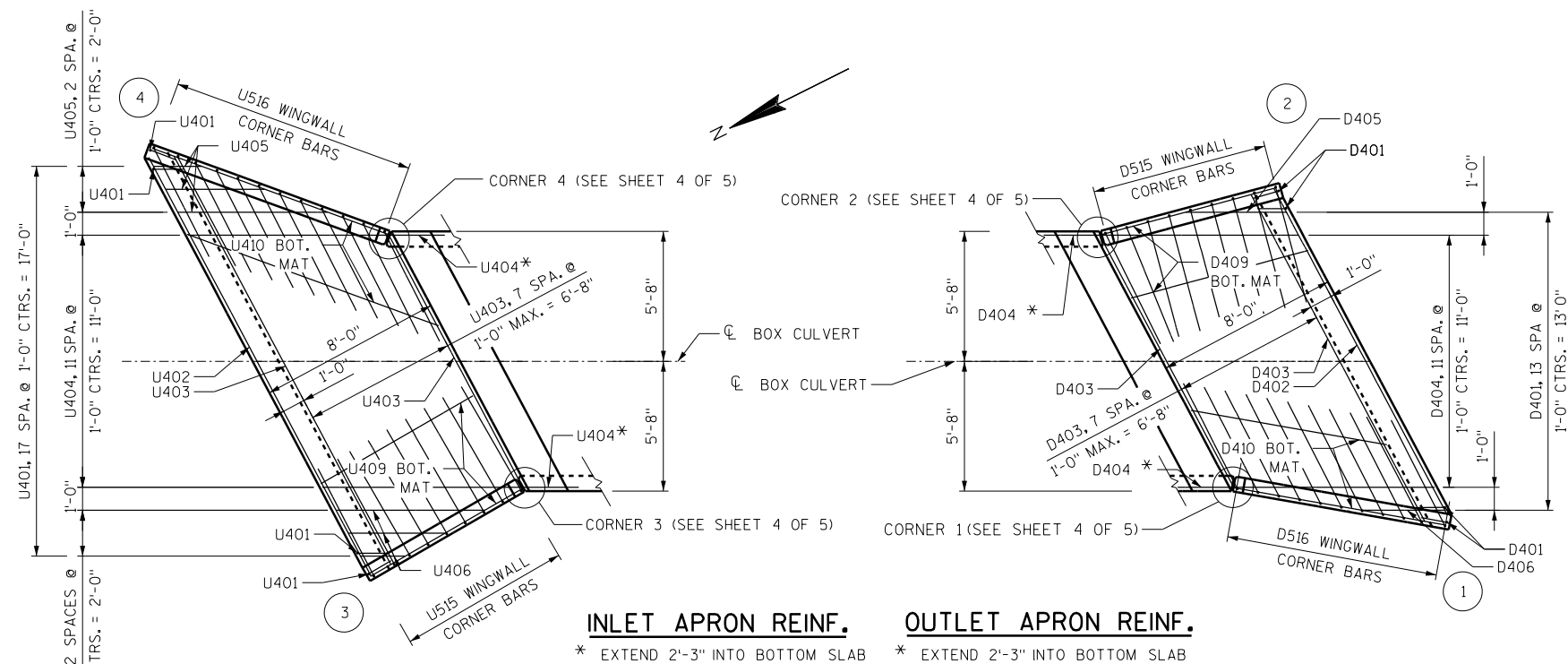


TYPICAL SECTION THRU
CULVERT HEADERS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE C-58-92			
DRAWN BY MDR		PLANS CK'D. AJC	
BOX CULVERT DETAILS 1			SHEET 2 OF 5

PLAN VIEW TYPICAL PANEL





NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE C-58-92			
DRAWN BY PLR		PLANS CK'D. AJC	
APRON DETAILS 1			SHEET 3 OF 5

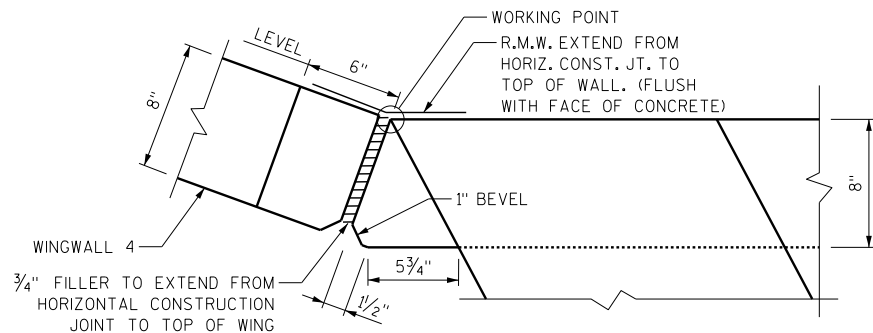
BILL OF BARS FOR INLET APRON

BAR MARK	NO. REQ'D	LENGTH	COAT	BENT	BAR SERIES	LOCATION
U401	20	3'-6"		X		INLET CUTOFF WALL VERT.
U402	3	20'-8"				INLET CUTOFF WALL HORIZ.
U403	8	16'-3"			▲	INLET APRON TRANSVERSE
U404	12	11'-2"				INLET APRON LONG.
U405	3	4'-3"			▲	INLET APRON LONG. AT WING 4
U406	3	4'-3"			▲	INLET APRON LONG. AT WING 3
U507	2	7'-10"	X			INLET WINGWALL 3 TOP DIAG.
U508	2	11'-1"	X			INLET WINGWALL 4 TOP DIAG.
U409	6	7'-6"	X			INLET WINGWALL 3 HORIZ. BOTTOM
U410	6	10'-10"	X			INLET WINGWALL 4 HORIZ. BOTTOM
U411	6	4'-0"	X		▲	INLET WINGWALL 3 HORIZ. TOP
U412	6	5'-8"	X		▲	INLET WINGWALL 4 HORIZ. TOP
U413	9	3'-1"	X		▲	INLET WINGWALL 3 VERT. I.F.
U414	12	3'-1"	X		▲	INLET WINGWALL 4 VERT. I.F.
U515	9	9'-3"	X	X	▲	INLET WINGWALL 3 CORNER BAR
U516	12	9'-3"	X	X	▲	INLET WINGWALL 4 CORNER BAR
U417	21	3'-0"	X			INLET WINGWALL 3 & 4 I.F. DOWEL

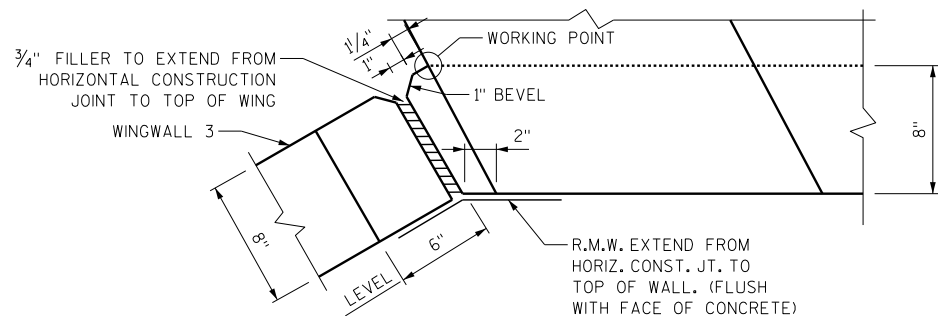
▲ SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U403	1 SERIES OF 8	12'-6" TO 20'-0"
U405	1 SERIES OF 3	2'-0" TO 6'-6"
U406	1 SERIES OF 3	2'-0" TO 6'-6"
U411	2 SERIES OF 3	1'-3" TO 6'-9"
U412	2 SERIES OF 3	1'-6" TO 9'-10"
U413	1 SERIES OF 9	1'-10" TO 4'-4"
U414	1 SERIES OF 12	1'-10" TO 4'-4"
U515	1 SERIES OF 9	7'-11" TO 10'-7"
U516	1 SERIES OF 12	7'-11" TO 10'-7"



CORNER 4



CORNER 3

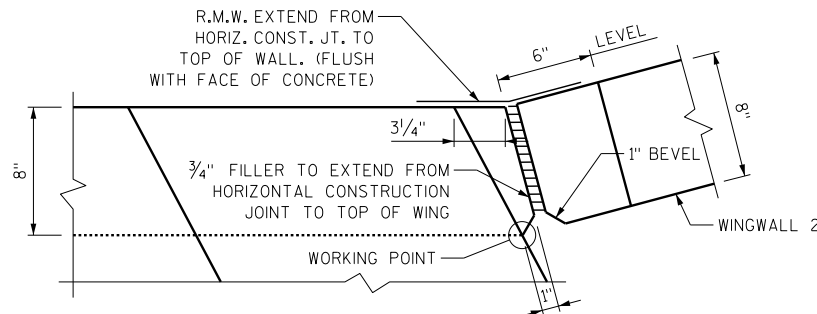
BILL OF BARS FOR OUTLET APRON

BAR MARK	NO. REQ'D	LENGTH	COAT	BENT	BAR SERIES	LOCATION
D401	16	5'-6"		X		OUTLET CUTOFF WALL VERT.
D402	5	16'-1"				OUTLET CUTOFF WALL HORIZ.
D403	8	14'-3"			▲	OUTLET APRON TRANSVERSE
D404	12	11'-2"				OUTLET APRON LONG.
D405	1	4'-5"				OUTLET APRON LONG. AT CORNER
D406	1	3'-8"				OUTLET APRON LONG. AT CORNER
D507	2	8'-2"	X			OUTLET WINGWALL 2 TOP DIAG.
D508	2	9'-7"	X			OUTLET WINGWALL 1 TOP DIAG.
D409	6	7'-9"	X			OUTLET WINGWALL 2 HORIZ. BOTTOM
D410	6	9'-3"	X			OUTLET WINGWALL 1 HORIZ. BOTTOM
D411	6	4'-0"	X		▲	OUTLET WINGWALL 2 HORIZ. TOP
D412	6	4'-11"	X		▲	OUTLET WINGWALL 1 HORIZ. TOP
D413	9	3'-1"	X		▲	OUTLET WINGWALL 2 VERT. I.F.
D414	11	3'-1"	X		▲	OUTLET WINGWALL 1 VERT. I.F.
D515	9	9'-3"	X	X	▲	OUTLET WINGWALL 2 CORNER BAR
D516	11	9'-3"	X	X	▲	OUTLET WINGWALL 1 CORNER BAR
D417	20	3'-0"	X			OUTLET WINGWALL 1 & 2 I.F. DOWEL

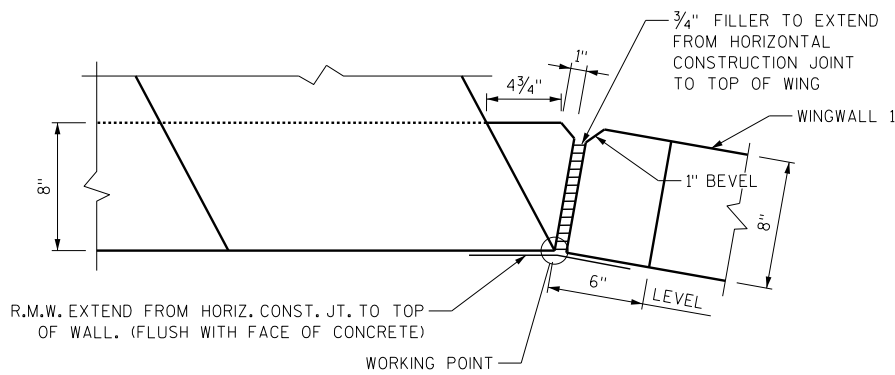
▲ SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

BAR SERIES TABLE

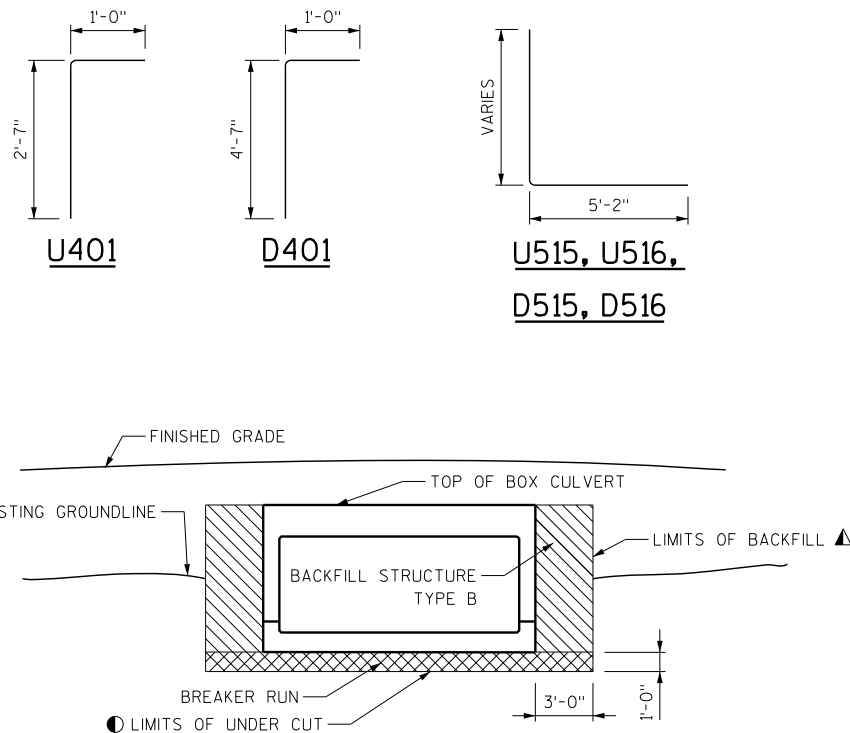
BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
D403	1 SERIES OF 8	12'-5" TO 16'-1"
D411	2 SERIES OF 3	1'-2" TO 6'-10"
D412	2 SERIES OF 3	1'-4" TO 8'-6"
D413	1 SERIES OF 9	1'-10" TO 4'-4"
D414	1 SERIES OF 11	1'-10" TO 4'-4"
D515	1 SERIES OF 9	7'-11" TO 10'-7"
D516	1 SERIES OF 11	7'-11" TO 10'-7"



CORNER 2



CORNER 1



TYPICAL SECTION THRU BOX CULVERT

NOTES

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CU THE EXISTING GROUND LINE.

▲ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS IS CONSIDERED INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

BACKFILL WITH "BACKFILL STRUCTURE TYPE B" ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND WILL NOT OCCUPIED BY THE NEW STRUCTURE. BACKFILL WITHIN THE LENGTH OF THE BOX INCLUDING THE APRON WING WALLS

● UNDER CUT 1'-0". INCLUDE THE EXCAVATION FOR UNDER CUT IN "EXCAVATION FOR STRUCTURES CULVERTS C-58-92". PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

PLACE ALL PRECAST BOX SECTIONS ON A BEDDING OF "STRUCTURE BACKFILL TYPE B" OF 6" MINIMUM DEPTH.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE C-58-92			
DRAWN BY		PLR	PLANS CK'D. AJC
APRON DETAILS 2			SHEET 4 OF 5

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1-13	AUG. 12, 2013	206119.09	938941.22
2-13	AUG. 12, 2013	206139.08	938977.72
2A-13	AUG. 12, 2013	206138.35	938982.02
BORINGS COMPLETED BY: RIVER VALLEY TESTING CORP.			
REPORT COMPLETED BY: RIVER VALLEY TESTING CORP.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91)			

⊕ DENOTES SOIL BORING LOCATION

PROPOSED R/W

TRIBUTARY TO
BLACK CREEK

STATION
INCREASE

R/L STH 156

PROPOSED R/W



BORING 2A-13

BORING 2-13

BORING 1-13

C-58-92

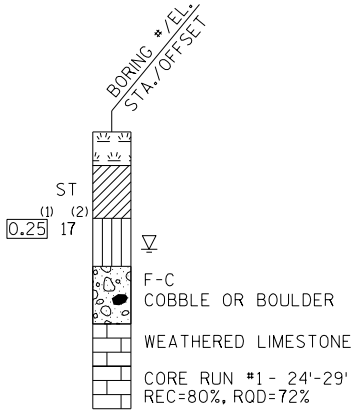
STATE PROJECT NUMBER

6580-11-60

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

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 C-58-92			
DRAWN BY		AJC	PLANS CK'D. MDR
SUBSURFACE EXPLORATION		SHEET 5 OF 5	

STH 156 (CULVERT AT STA 10+68)
STA 9+00 - STA 12+00

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	SALVAGED UNUSABLE PAVEMENT MATERIAL	EXPANDED FILL 1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 4	NOTE 5
9+00		4	15	1	0	0	0	0	0	0	0
9+50	50	40	15	6	41	27	7	41	27	9	5
10+00	50	46	15	9	79	27	14	120	54	26	40
10+50	50	41	15	12	80	27	19	200	81	50	69
11+00	50	32	15	4	67	27	15	268	109	69	90
11+50	50	27	15	7	55	27	10	323	136	82	104
12+00	50	6	15	0	31	27	6	354	163	91	100
COLUMN TOTALS					354	163	72				

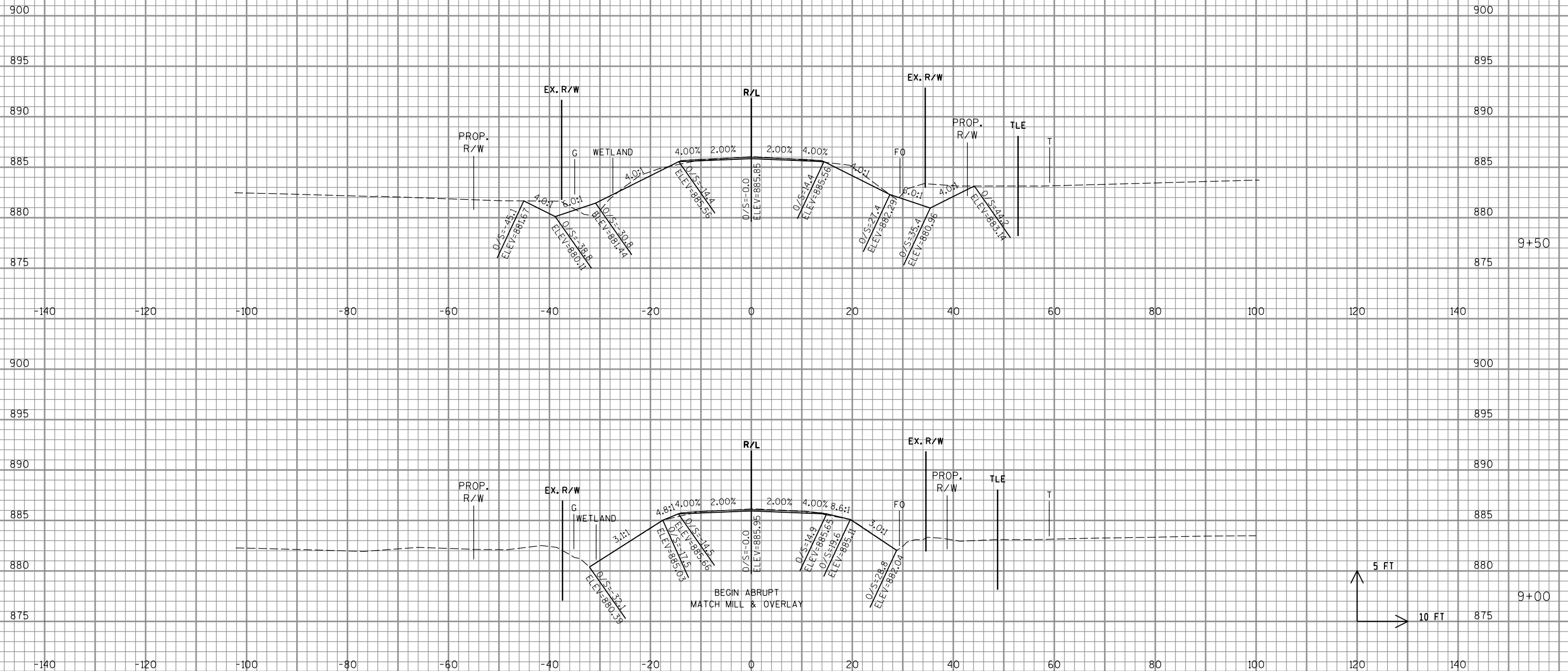
STH 156 (C-58-0092 CULVERT AT STA 48+95)
STA 46+00 - STA 52+10

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			MASS ORDINATE
		CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	SALVAGED UNUSABLE PAVEMENT MATERIAL	EXPANDED FILL 1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1	NOTE 2	NOTE 4	NOTE 5
46+00		52	15	0	0	0	0	0	0	0	0
46+42	42	73	15	25	97	23	20	97	23	25	50
46+50	8	69	15	24	21	4	7	118	27	34	58
47+00	50	62	15	43	122	27	62	240	54	111	75
47+50	50	59	15	59	112	27	95	353	81	229	42
47+61	11	51	15	65	22	6	25	375	87	261	27
47+86	25	47	15	50	45	14	53	420	101	327	-8
48+00	14	50	15	44	25	8	24	445	109	357	-20
48+11	11	54	15	40	21	6	17	467	115	378	-27
48+50	39	62	15	49	84	21	64	550	136	458	-44
49+00	50	48	15	57	102	27	98	653	163	581	-91
49+50	50	47	15	30	88	27	81	741	190	681	-131
50+00	50	37	15	36	78	27	61	819	217	758	-156
50+50	50	36	15	28	68	27	60	888	244	832	-189
50+67	17	39	15	32	24	9	19	911	254	856	-198
50+92	25	49	15	46	41	14	36	952	267	901	-216
51+00	8	55	15	54	15	4	15	968	272	919	-223
51+17	17	69	15	70	39	9	39	1,006	281	968	-243
51+50	33	93	15	67	99	18	84	1,105	299	1,073	-266
51+92	42	136	15	63	178	23	101	1,283	322	1,199	-238
52+00	8	134	15	63	40	4	19	1,323	326	1,223	-226
52+10	10	51	15	12	34	5	14	1,357	331	1,240	-214
COLUMN TOTALS					1,357	331	992				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT INBOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES BOTH CONCRETE AND ASPHALTIC PAVEMENTS
3 - FILL	INCLUDES BACKFILL OF SALVAGED/UNUSABLE PAVEMENT MATERIAL EXCAVATION AREAS TO BE REMOVED BELOW THE ULTIMATE SUBGRADE IN FILL SECTIONS
4 - EXPANDED FILL	(UNEXPANDED FILL * FILL FACTOR)
5 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORAGE OF MATERIAL

NOTE

FULL DEPTH PAVEMENT PATCH AT CULVERT
SHOWN ON CONSTRUCTION DETAILS



PROJECT NO: 6580-11-60

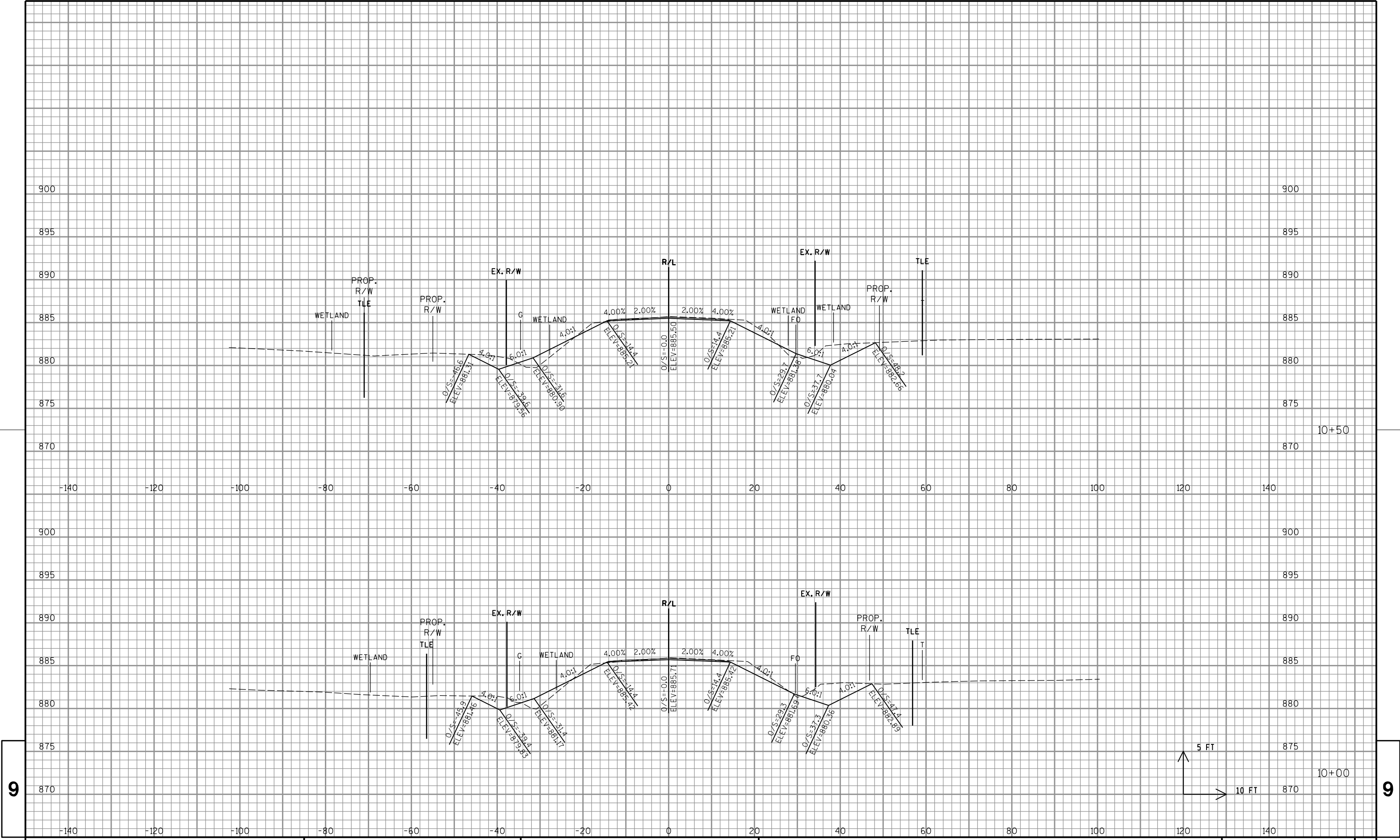
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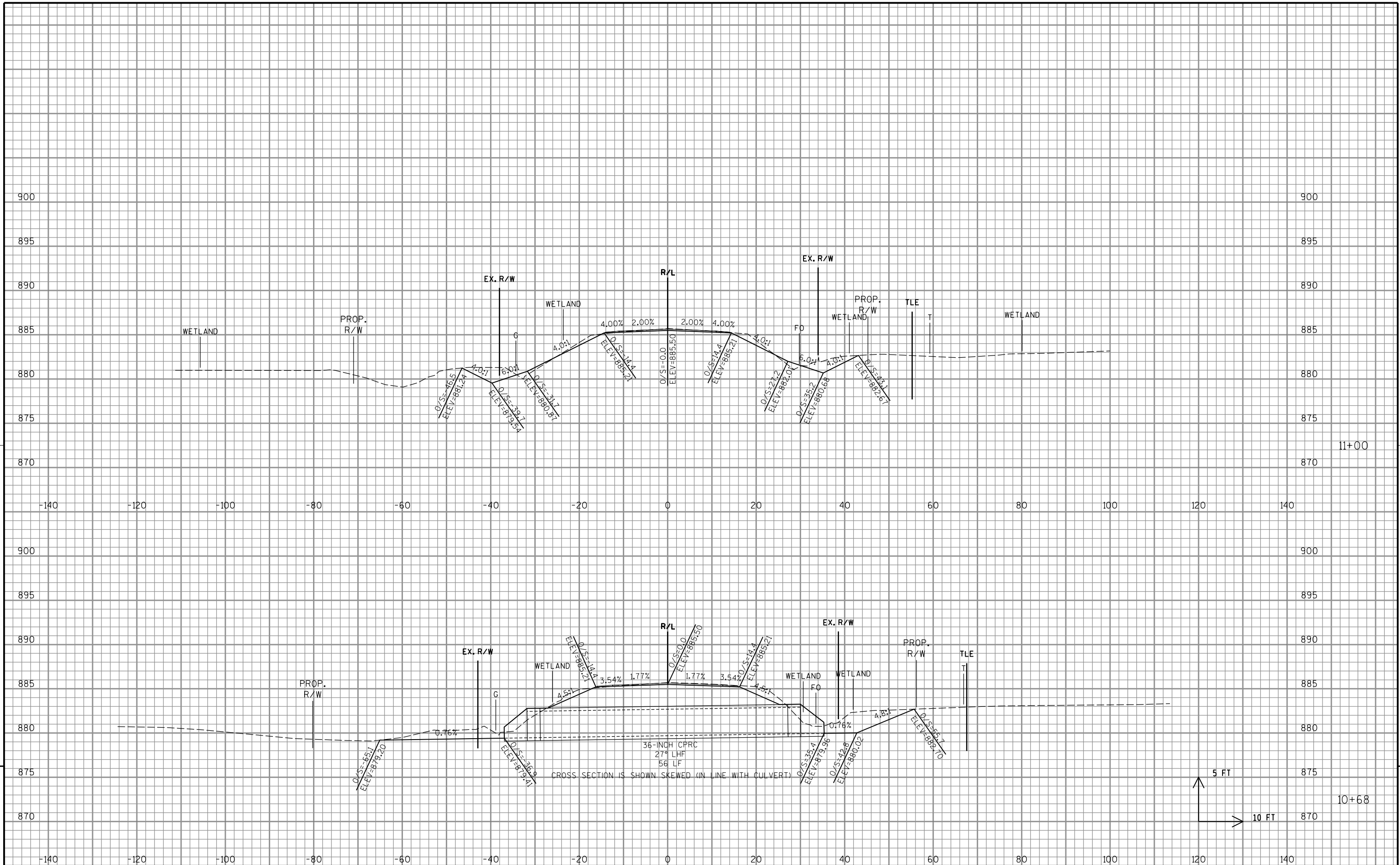
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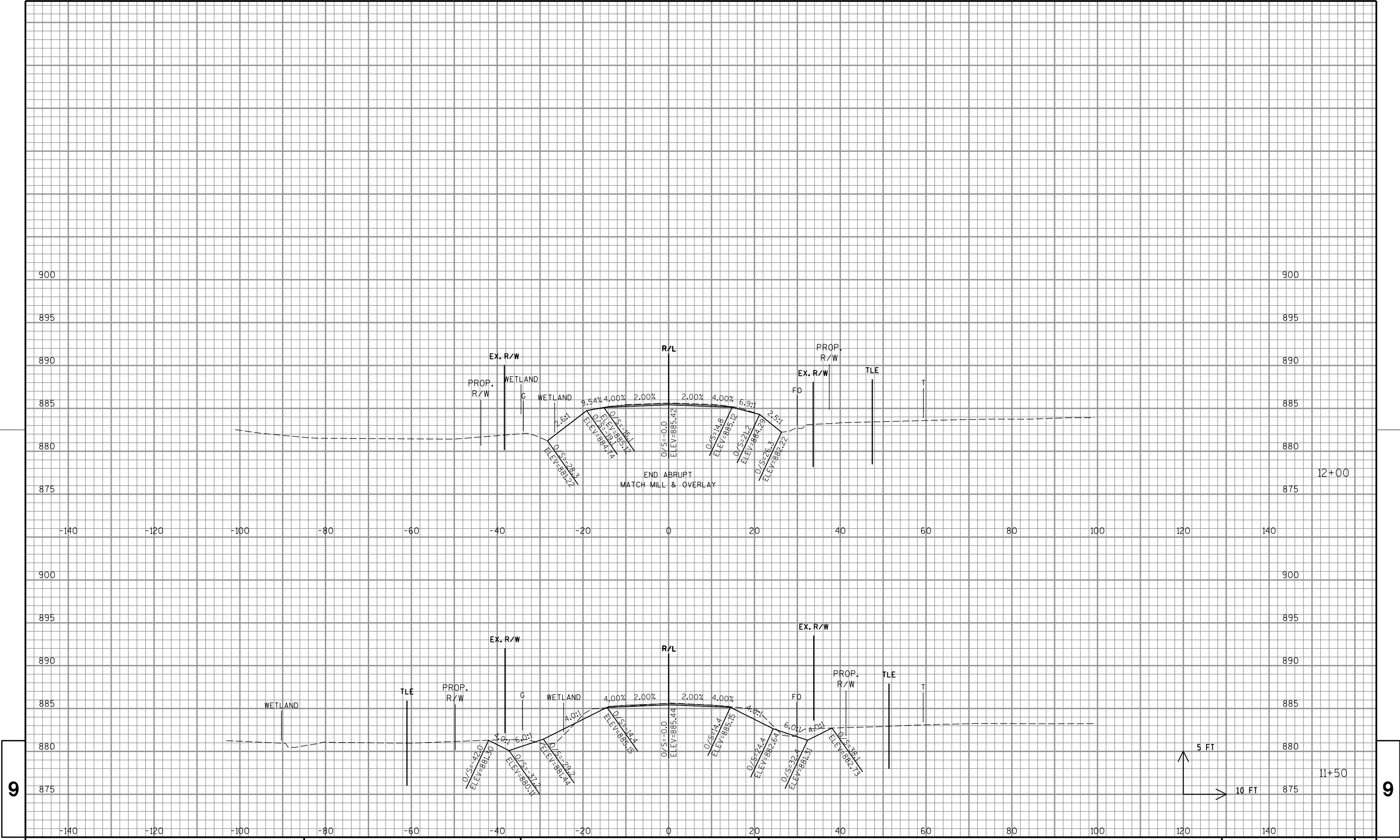
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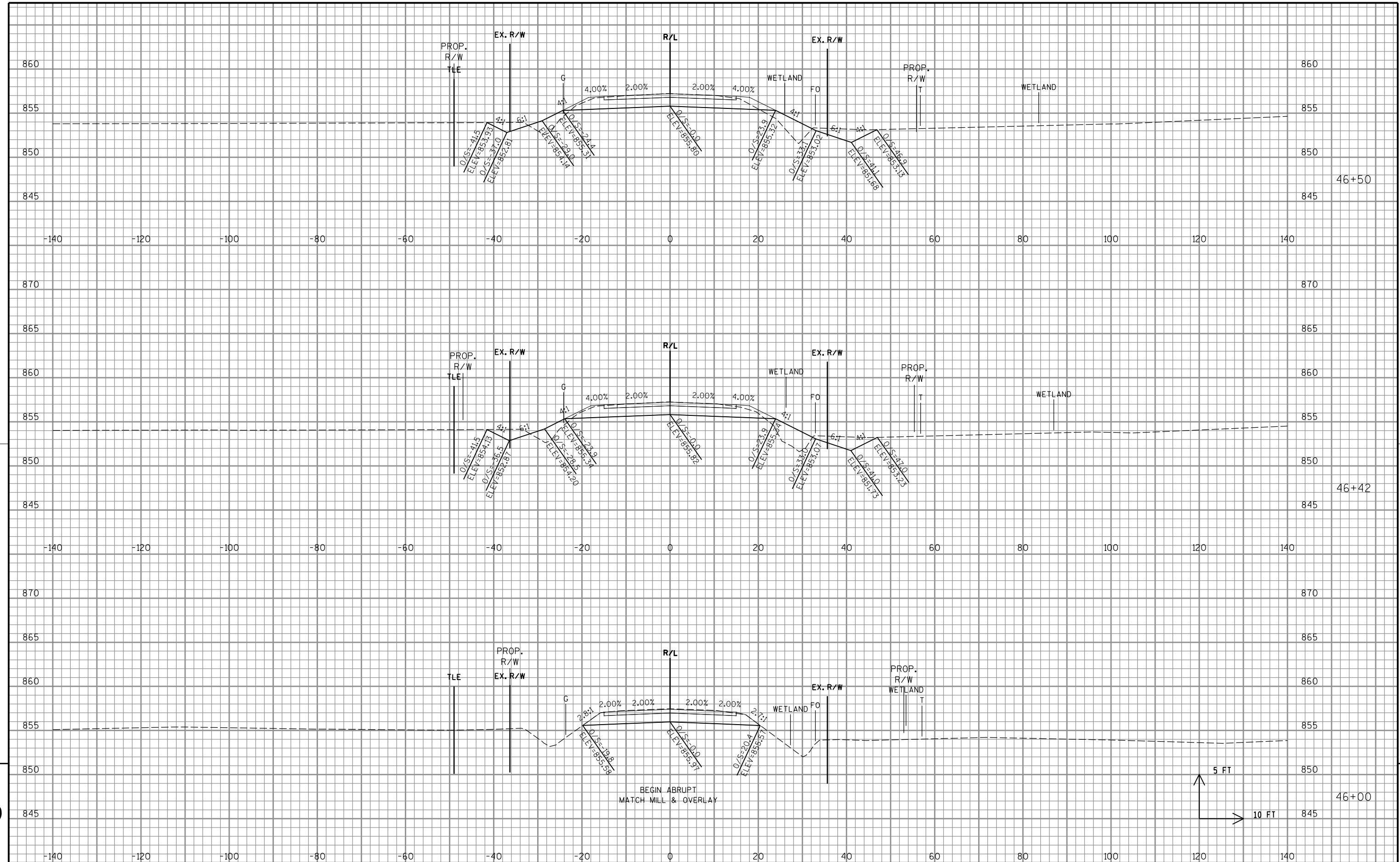
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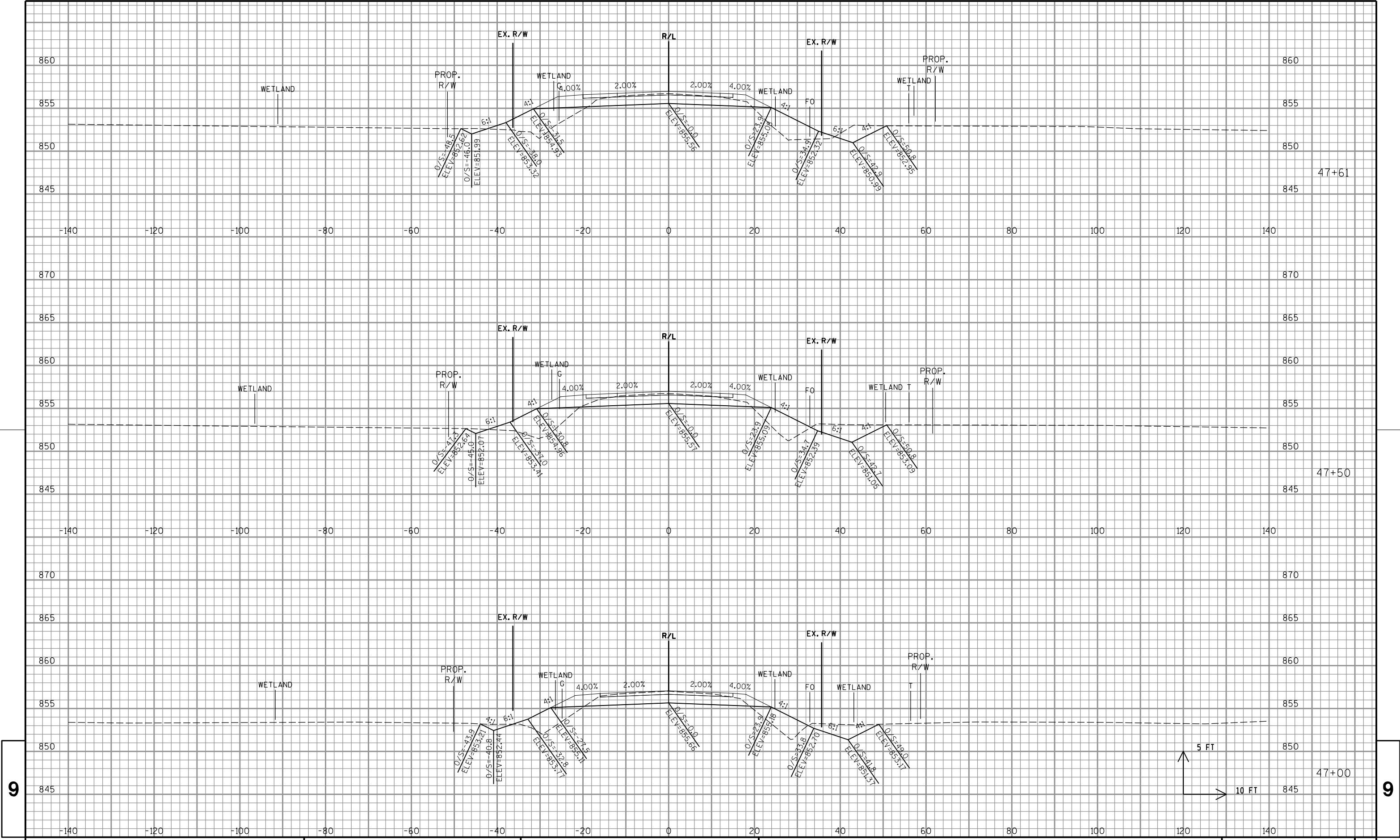
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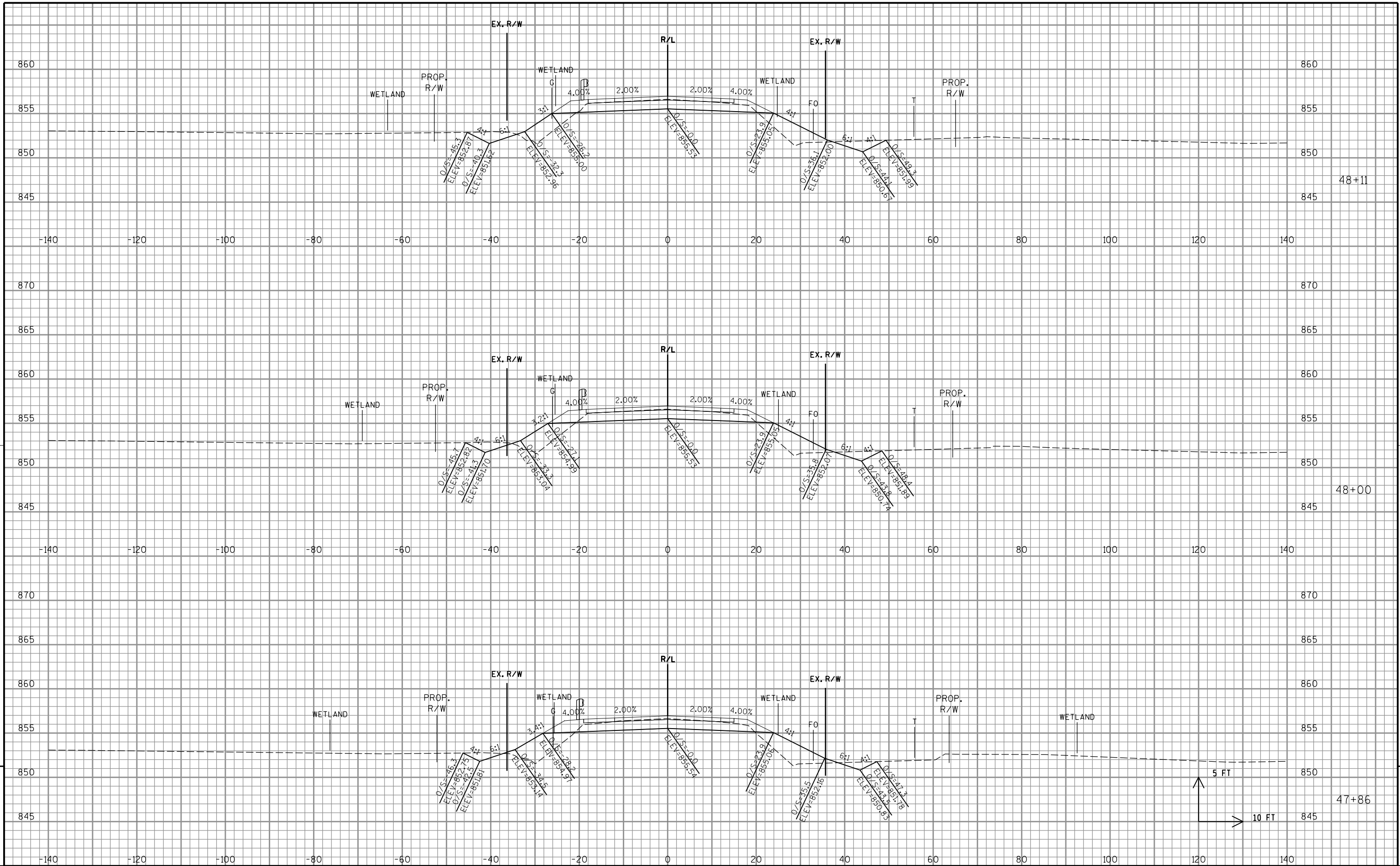


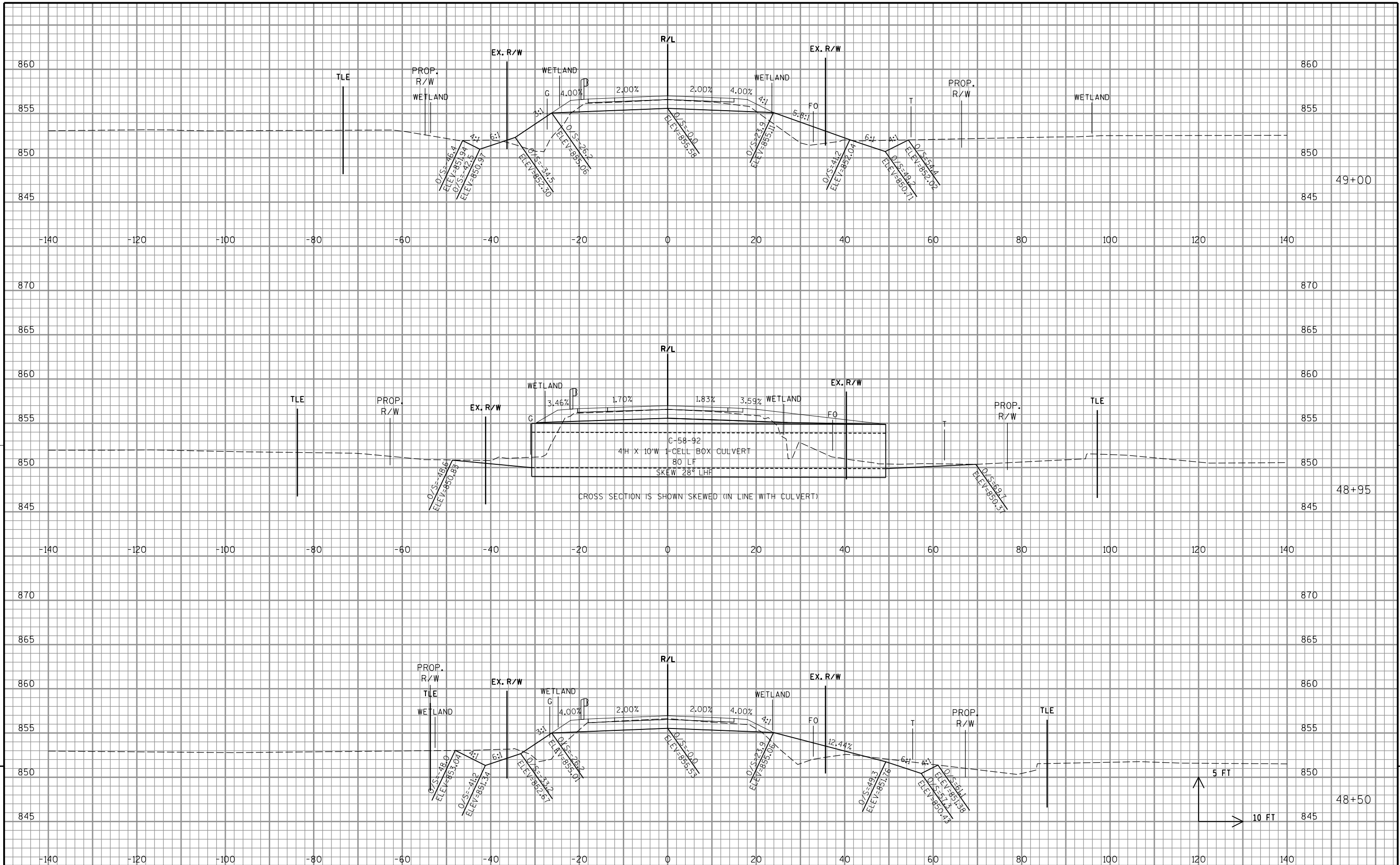


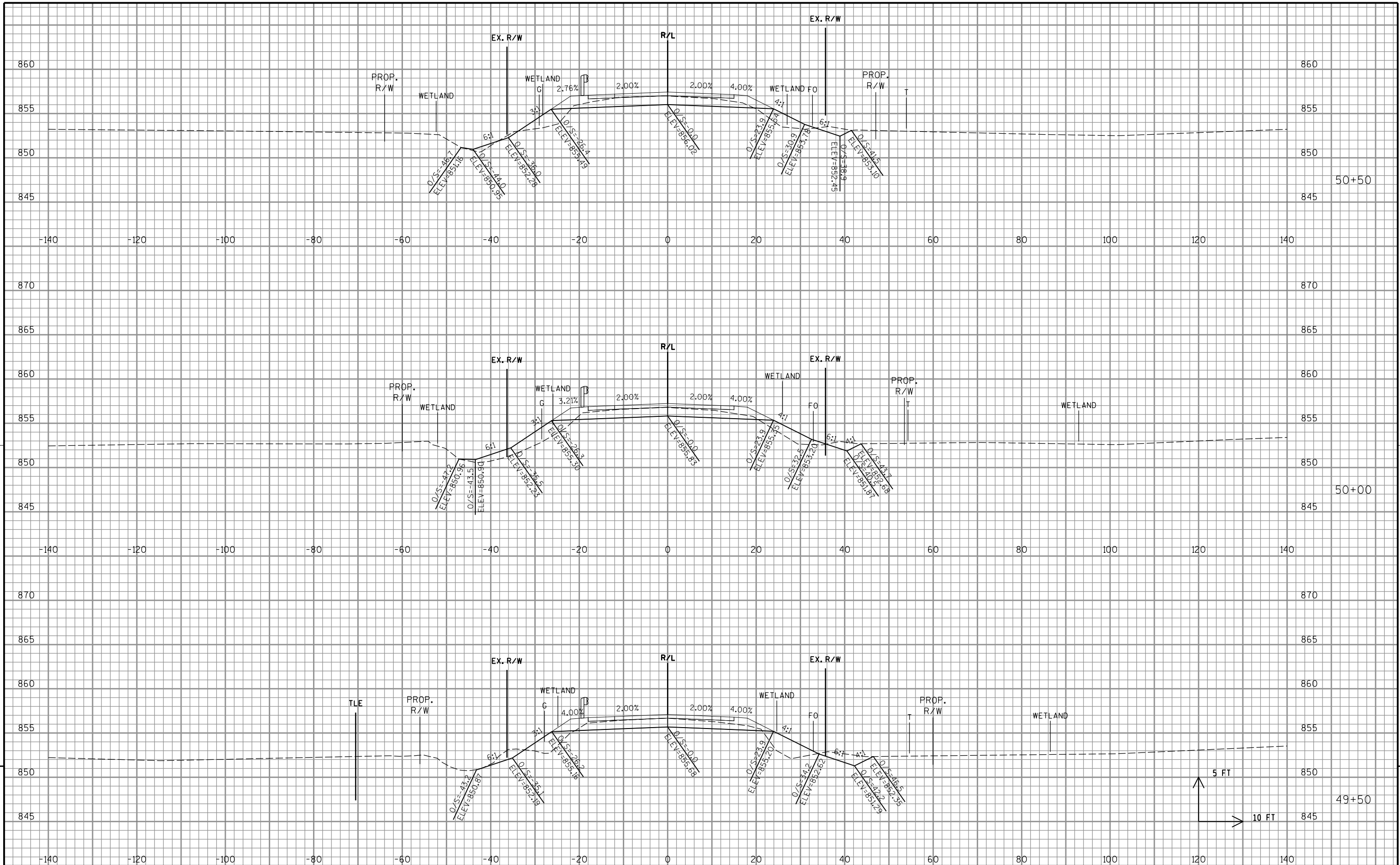


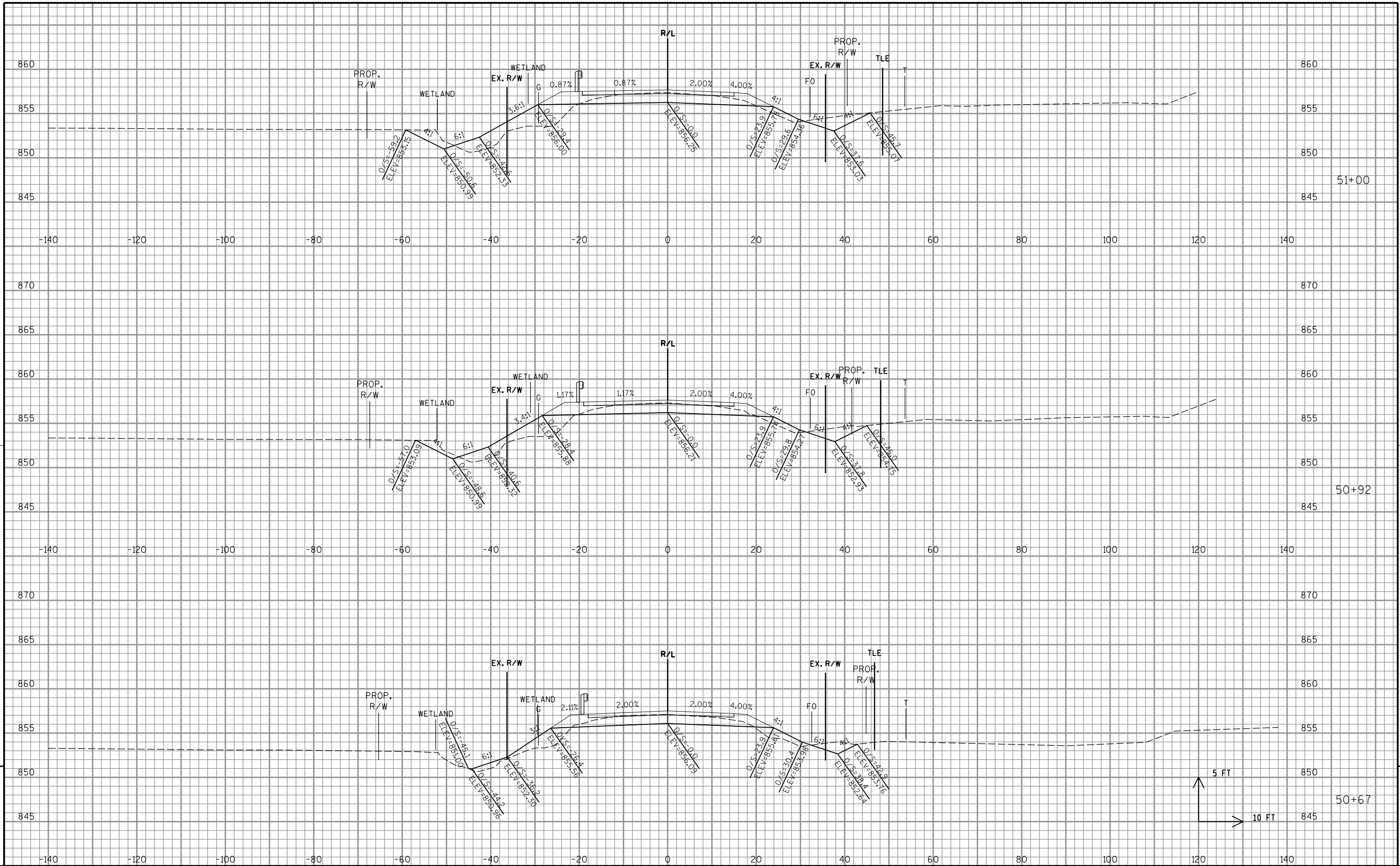


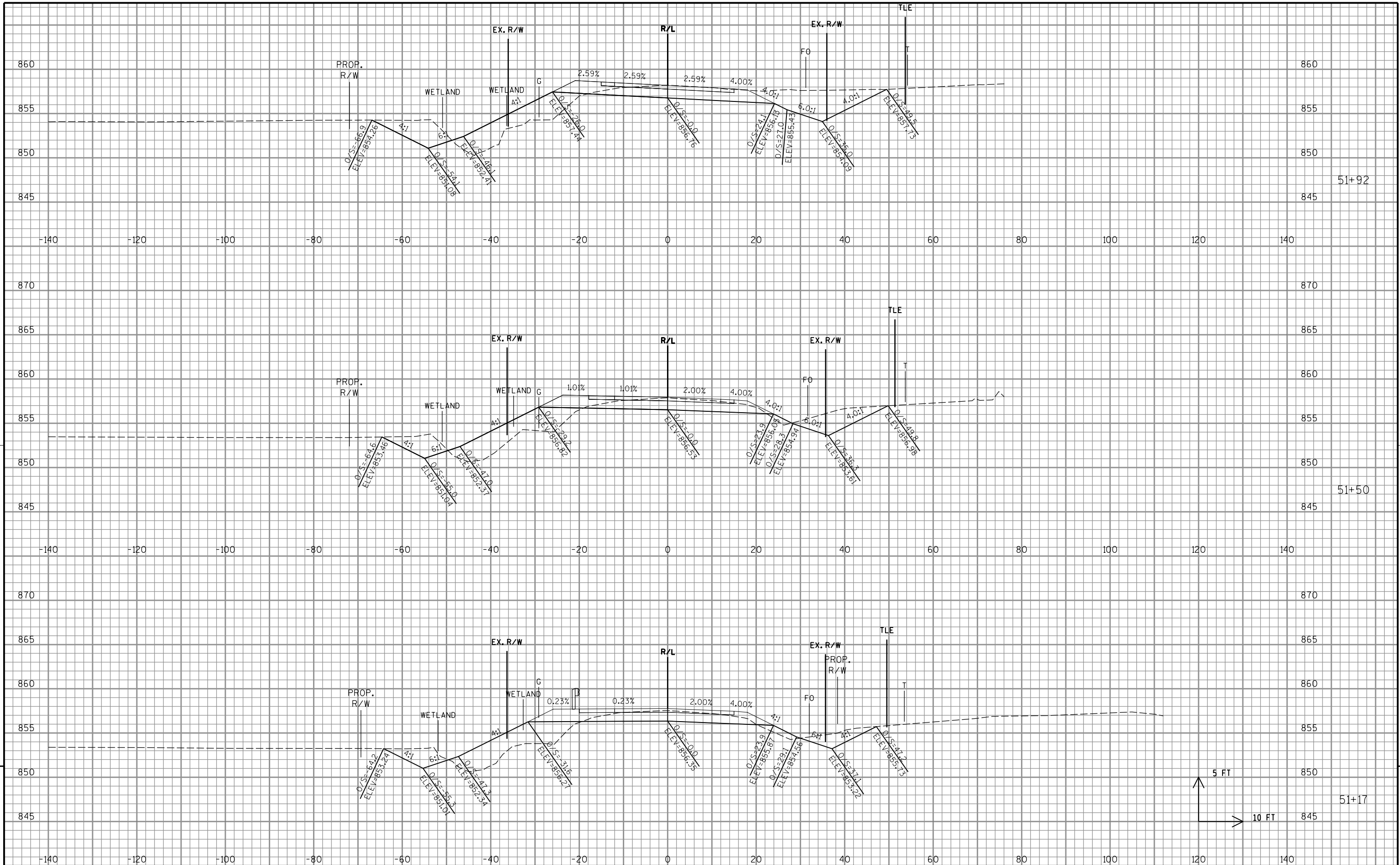


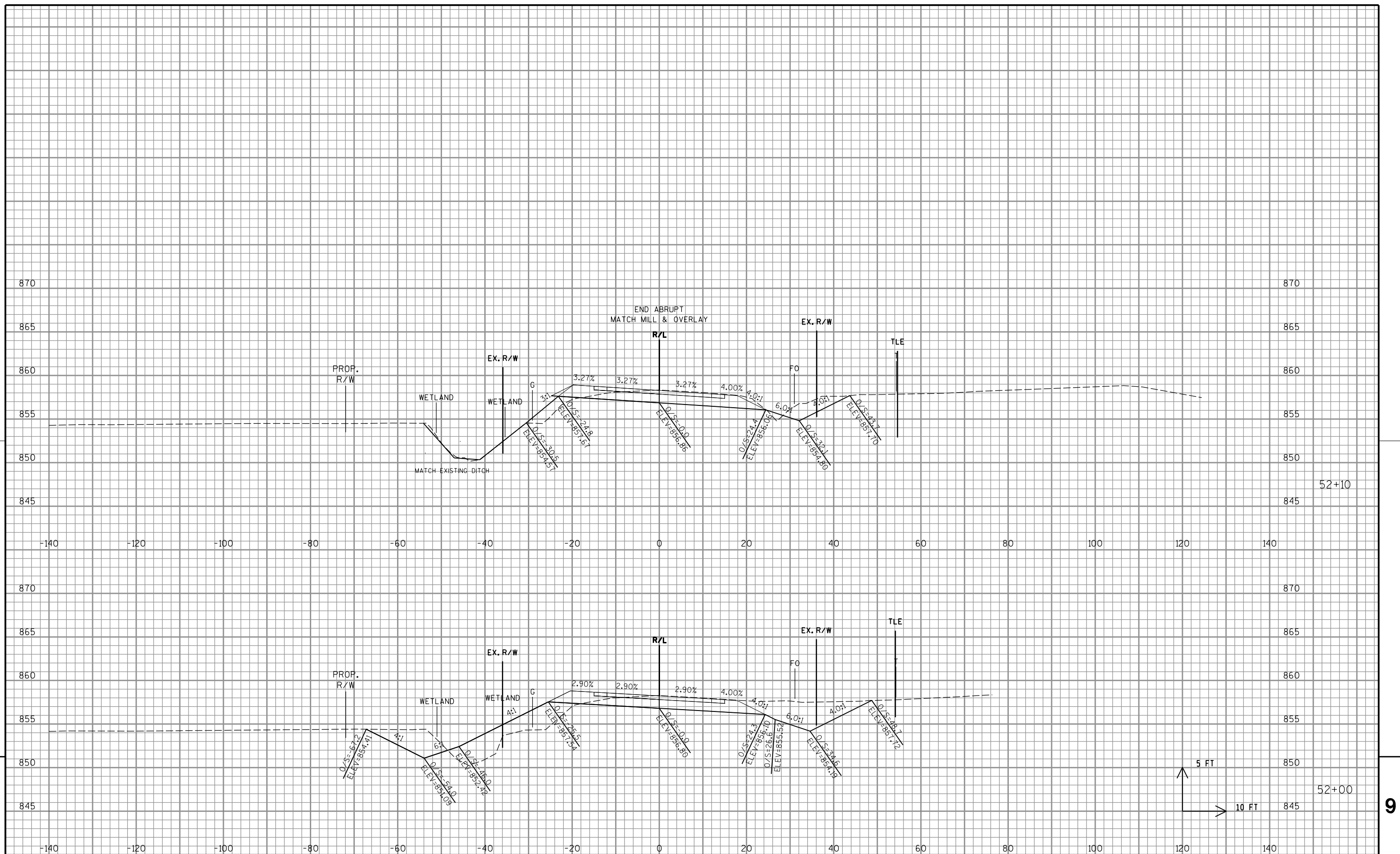
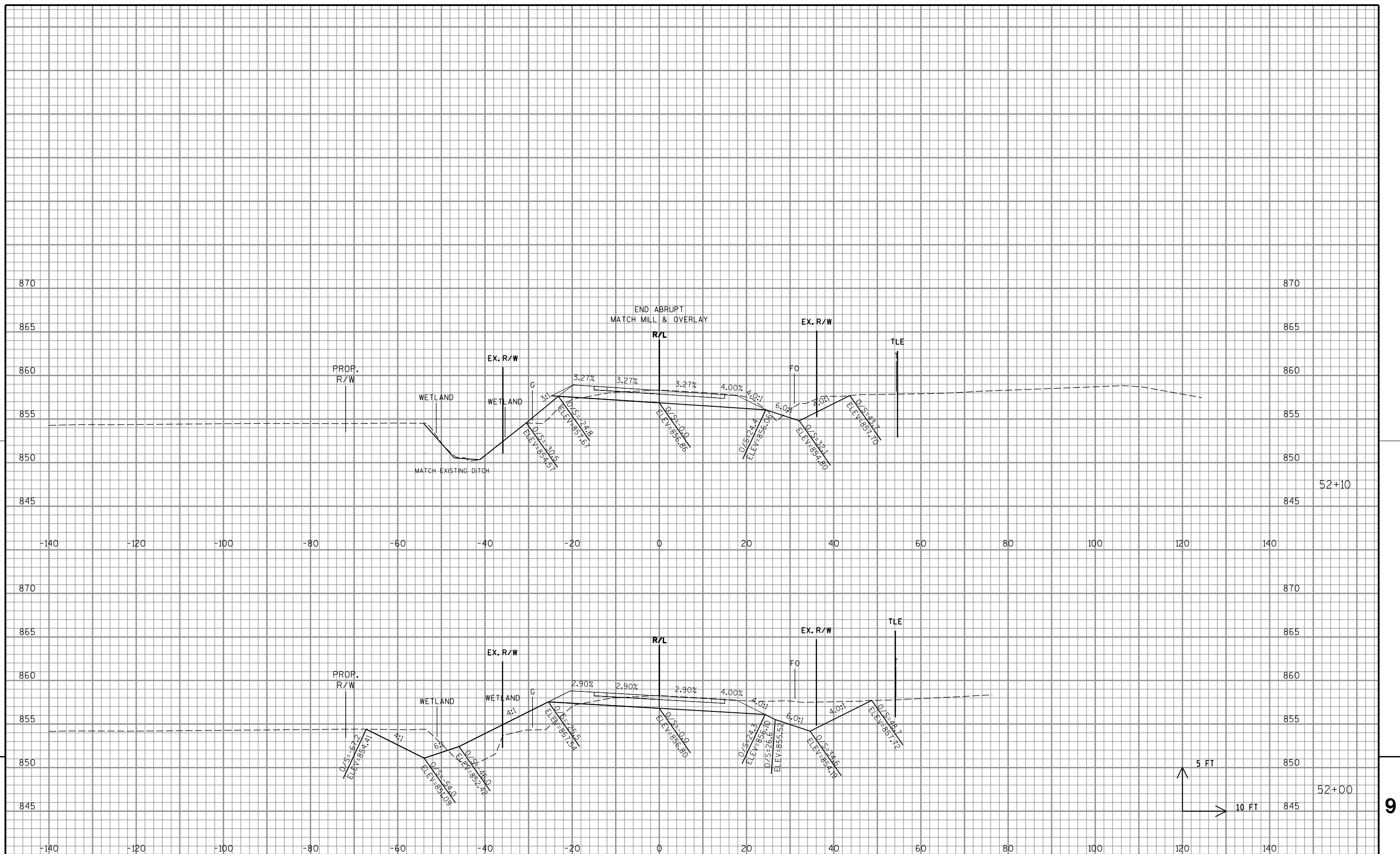












PROJECT NO: 6580-11-60	HWY: STH 156	COUNTY: SHAWANO	CROSS SECTIONS: STH 156 - C-58-92	SHEET	E
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