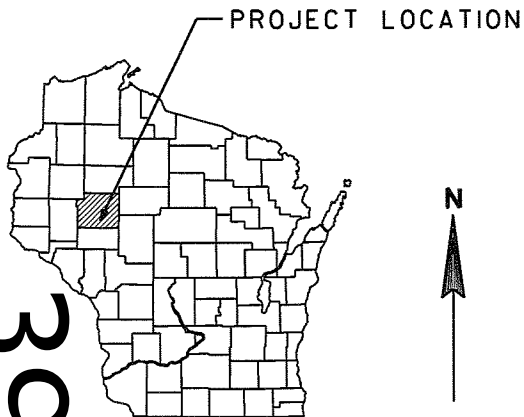


ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 5	Plan
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates

TOTAL SHEETS = 132



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY REHABILITATION-MAINTENANCE PROJECT
CHIPPEWA FALLS - CADOTT
STILLSON CREEK TO STH 27 (WB)
STH 29
CHIPPEWA COUNTY

STATE PROJECT NUMBER
1050-01-63

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1050-01-63	WISC 2011170	1

ASBUILT PLAN

PROJECT LEADER: NICOLE PASSUELLO
PRIME CONTRACTOR: C.P.R., INC.
CONTRACT MOD #S: 1 THROUGH 3
CONTRACT ID: 20110308039

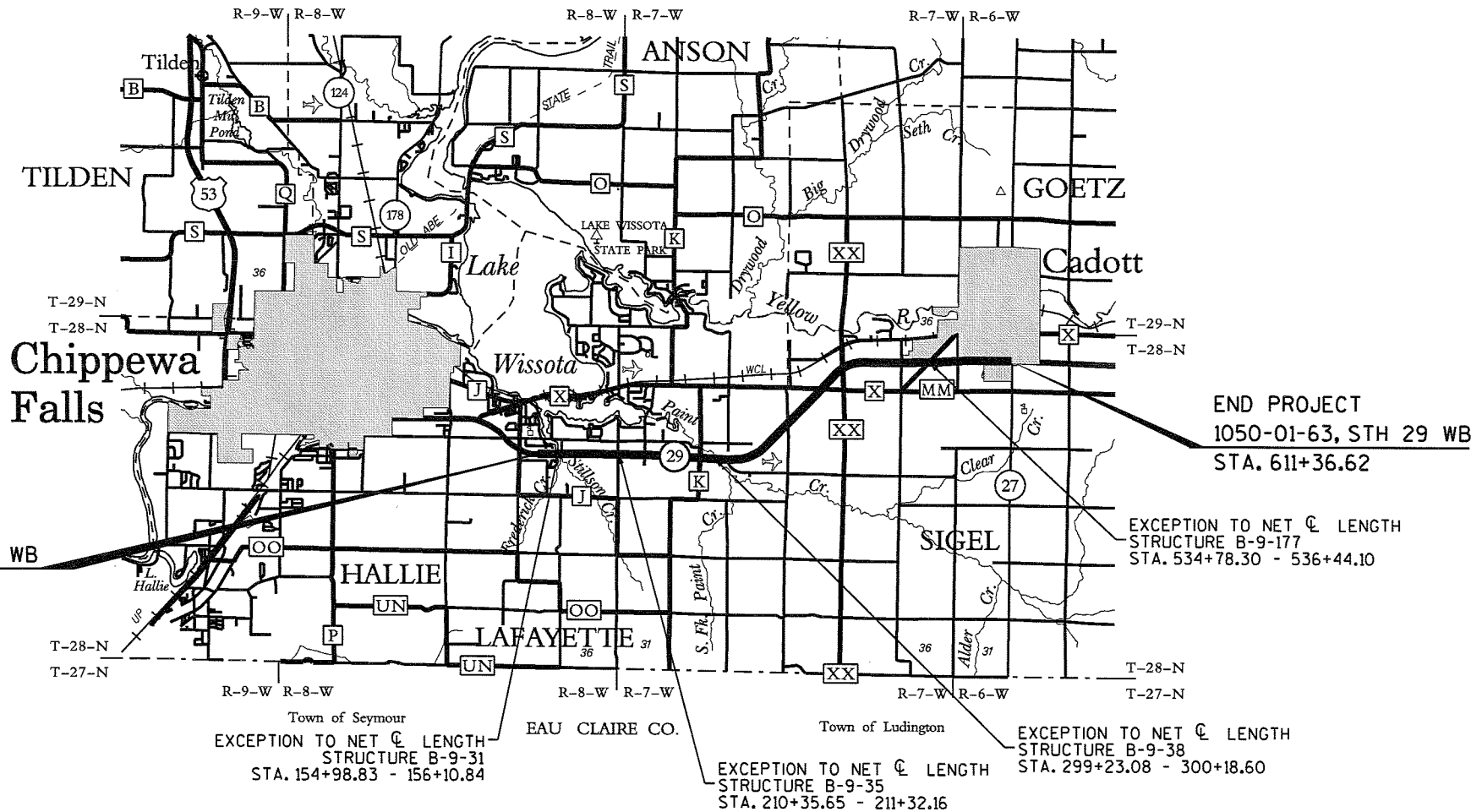
DESIGN DESIGNATION

A.A.D.T. 2010	= 15,300
A.A.D.T. 2030	= 21,000
D.H.V.	= 13.6%
D.D.	= 60/40
T.	= 16.2%
DESIGN SPEED	= 70 MPH
ESALS	= N/A

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
REFERENCE LINE	
COMBUSTIBLE FLUIDS	
UTILITIES	
ELECTRIC	E
FIBER OPTIC	FO
GAS	G
SANITARY SEWER	SAN
STORM SEWER	SS
TELEPHONE	T
WATER	W
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

BEGIN PROJECT
1050-01-63, STH 29 WB
STA. 135+89.57
Y = 120544.285
X = 191507.521



LAYOUT
SCALE 0 2.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 8.916 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN
COUNTY COORDINATE SYSTEM (WCCS), CHIPPEWA COUNTY.

ORIGINAL PLANS PREPARED BY

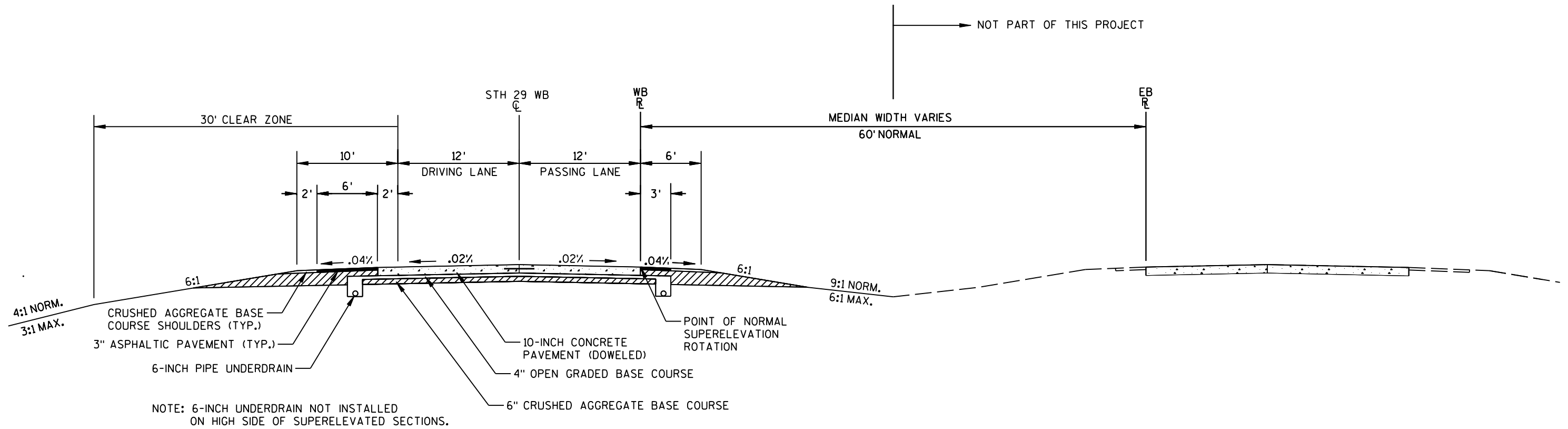


10/20/10 DATE
Heather Harrington SIGNATURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

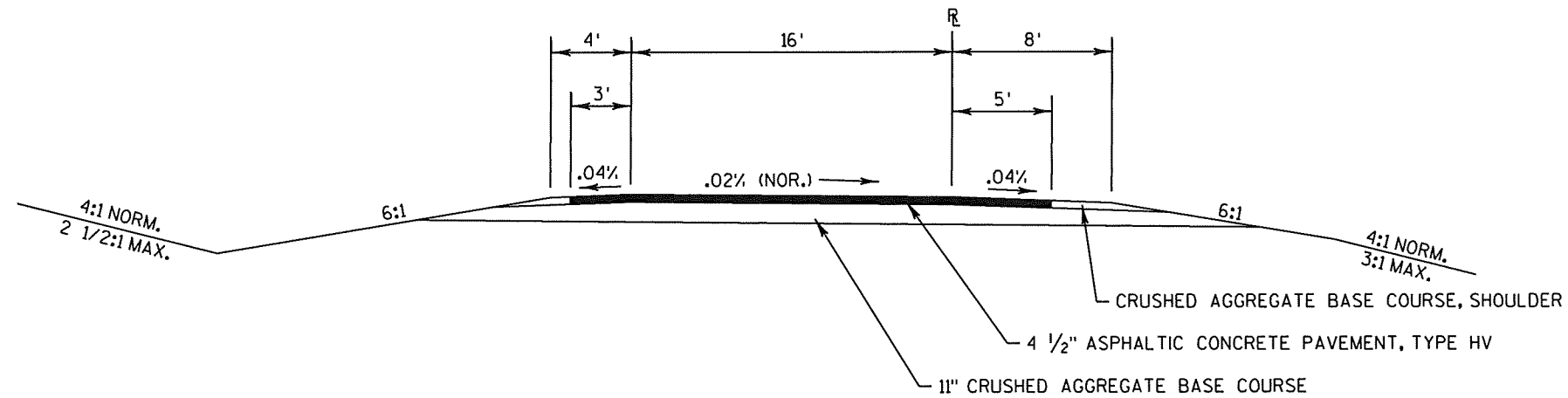
PREPARED BY	
Surveyor	SEH, Inc.
Designer	NWBE, Inc.
Project Manager	CHAD M. HINES
Regional Examiner	DANIEL OJIBWAY
Regional Supervisor	RICHARD SHERMO
C.O. Examiner	JANE ENGBRETSSEN

APPROVED FOR THE DEPARTMENT
DATE: 10/22/10 [Signature] SIGNATURE



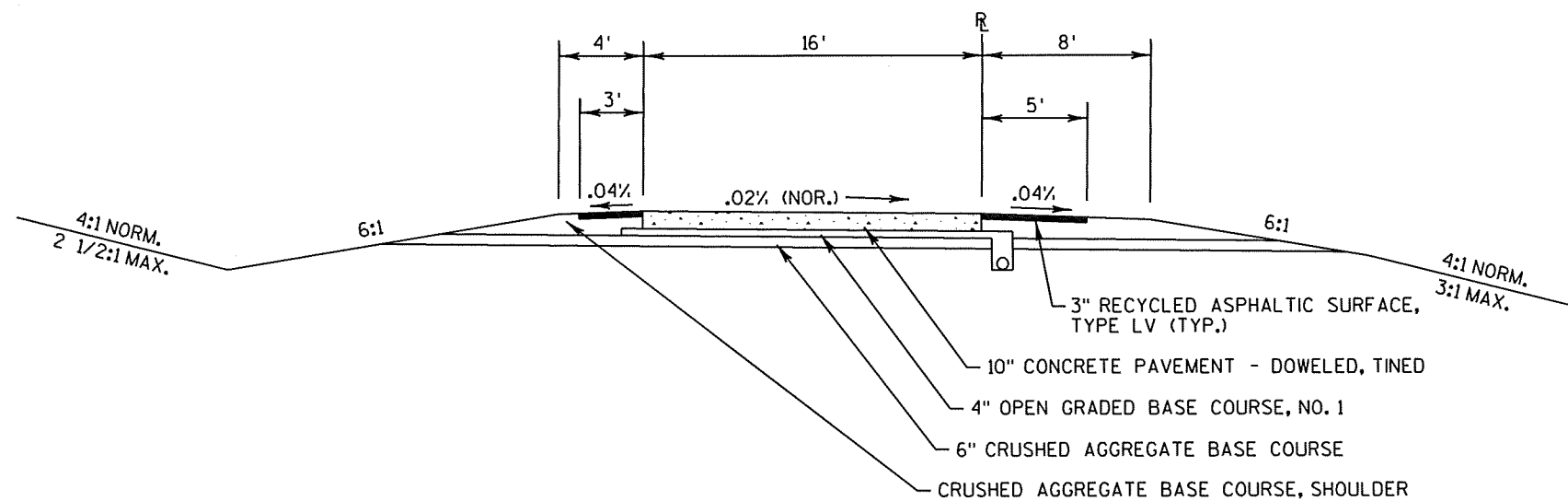
TYPICAL EXISTING SECTION - STH 29

STA 135'WB'+89.57 - STA 443'WB'+71



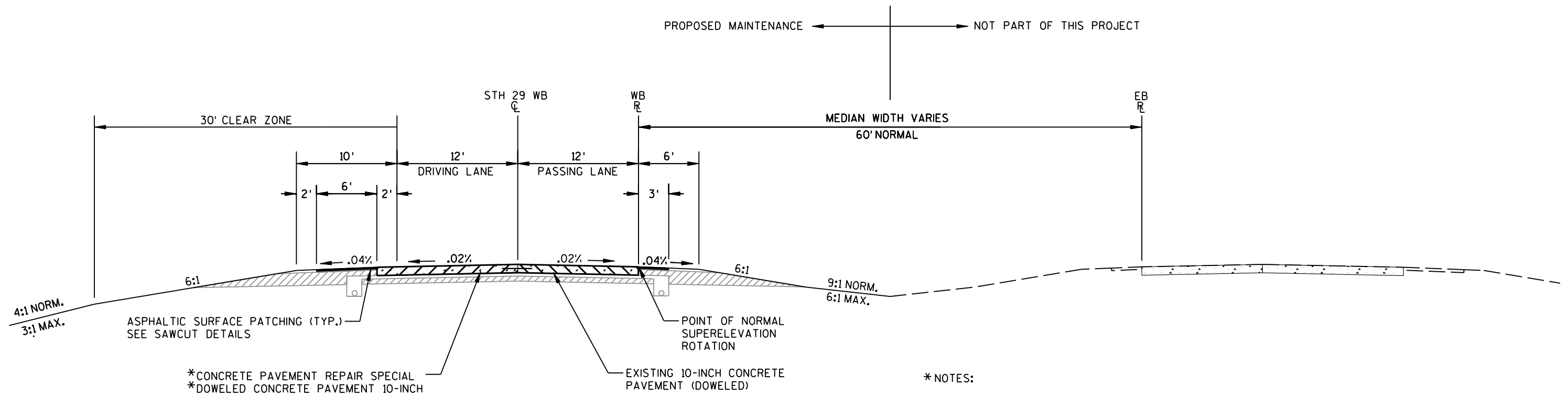
TYPICAL EXISTING SECTION - RAMP

STA 422'F'+41.3 - STA 429'F'+88
 STA 416'G'+35 - STA 421'G'+95.2
 STA 611'N'+09.65 - STA 619'N'+12
 STA 604'P'+15 - STA 610'P'+37



TYPICAL EXISTING SECTION - RAMP

STA 429'F'+88 - STA 434'F'+75.7
 STA 410'G'+40.5 - STA 416'G'+35
 STA 619'N'+12 - STA 622'N'+75
 STA 602'P'+40.20 - STA 604'P'+15



TYPICAL FINISHED SECTION - STH 29

STA 135'WB'+89.57 - STA 443'WB'+71

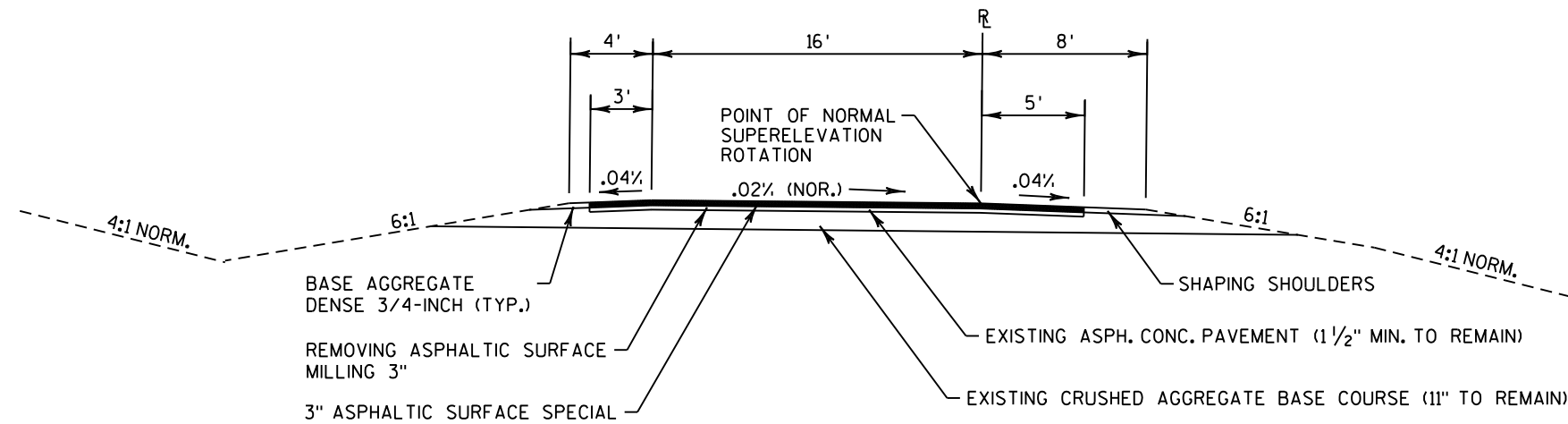
*NOTES:

SEE MISCELLANEOUS QUANTITIES FOR APPROXIMATE STATIONING OF:
 -CONCRETE PAVEMENT REPAIR SPECIAL
 -DOWELED CONCRETE PAVEMENT 10-INCH

BID ITEMS INCLUDE 2 FOOT CONCRETE SHOULDER.

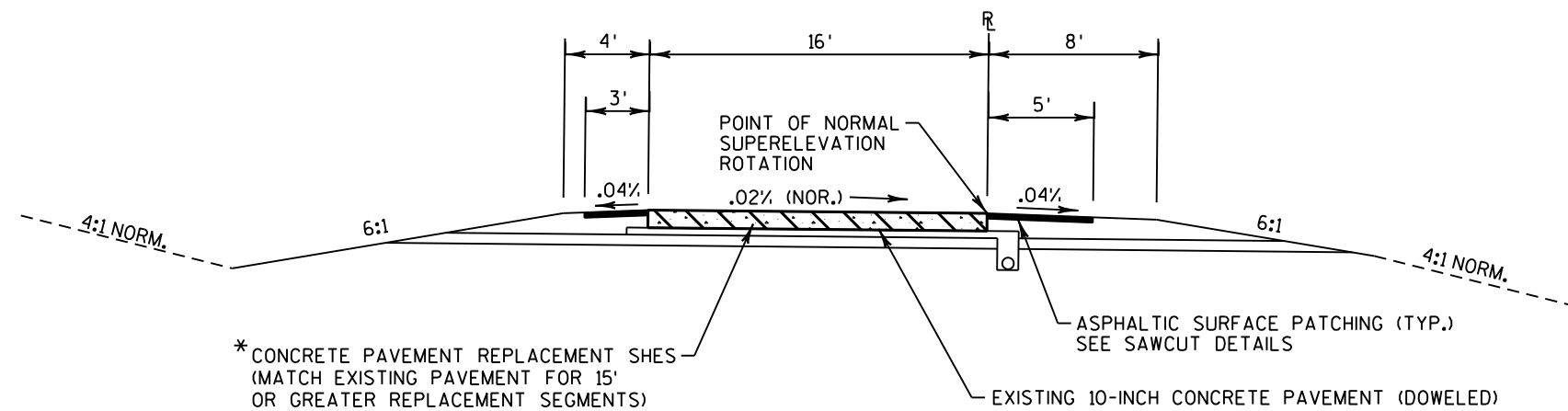
EXACT LOCATIONS TO BE DETERMINED IN THE FIELD
 BY THE ENGINEER.

SEE CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.



TYPICAL FINISHED SECTION - RAMP

STA 426'F'+50 - STA 429'F'+88
 STA 416'G'+35 - STA 421'G'+00
 STA 613'N'+00 - STA 619'N'+12
 STA 604'P'+15 - STA 608'P'+80



TYPICAL FINISHED SECTION - RAMP

STA 429'F'+88 - STA 434'F'+75.7
 STA 410'G'+40.5 - STA 416'G'+35
 STA 619'N'+12 - STA 622'N'+75
 STA 602'P'+40.20 - STA 604'P'+15

*NOTES:

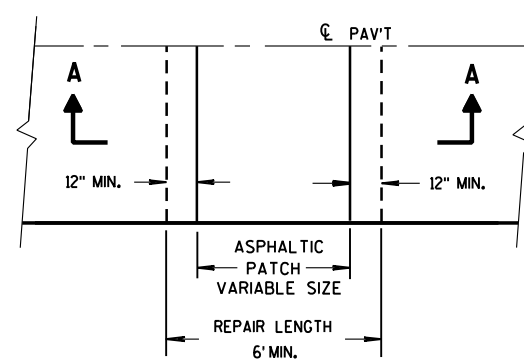
SEE MISC. QUANTITIES FOR APPROXIMATE STATIONING OF:
 -CONCRETE PAVEMENT REPAIR SHES
 -CONCRETE PAVEMENT REPLACEMENT SHES

EXACT LOCATIONS TO BE DETERMINED
 IN THE FIELD BY THE ENGINEER.

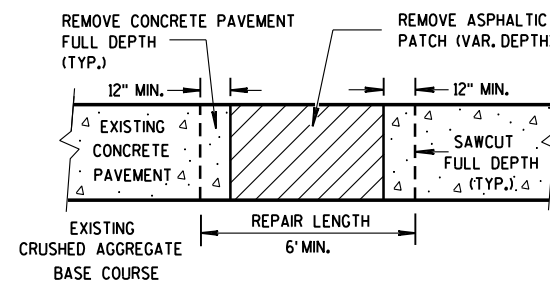
SEE CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

GENERAL NOTES

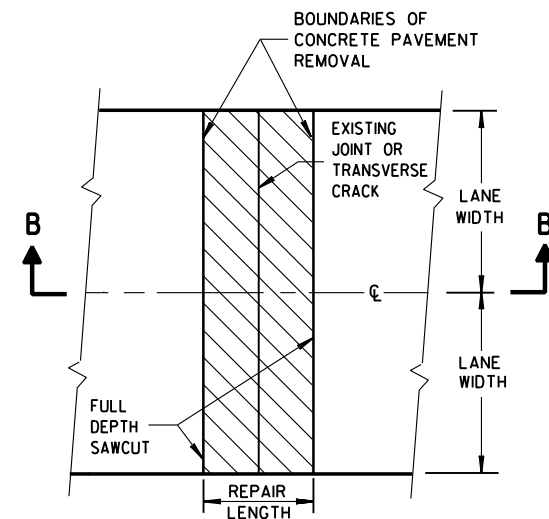
DRILL AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES. ADDITIONAL SAW CUTS ARE INCIDENTAL TO THE WORK AND ARE NOT MEASURED FOR PAYMENT. PROVIDE 6-FOOT MINIMUM BOUNDARIES FROM CONCRETE PAVEMENT REPAIR AREAS TO REMAINING TRANSVERSE JOINT OR CRACK.



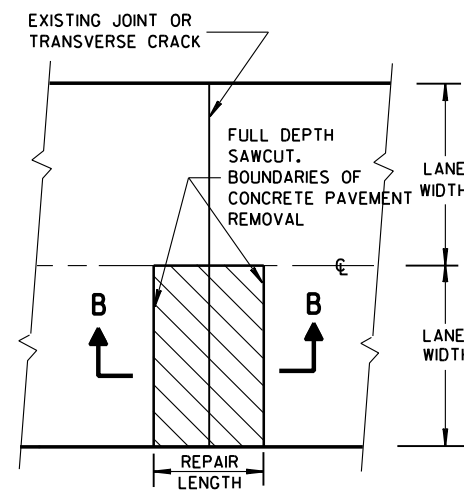
PLAN VIEW



**SECTION A-A
PATCH REMOVAL**



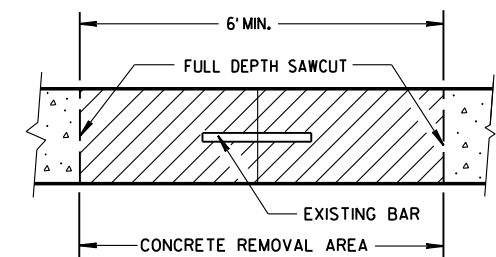
**PLAN VIEW
(DOUBLE LANE REPAIR)**



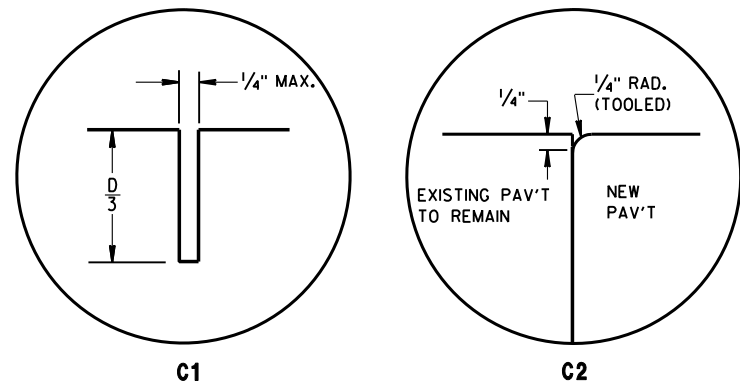
**PLAN VIEW
(SINGLE LANE REPAIR)**

FULL DEPTH CONCRETE PAVEMENT REMOVAL

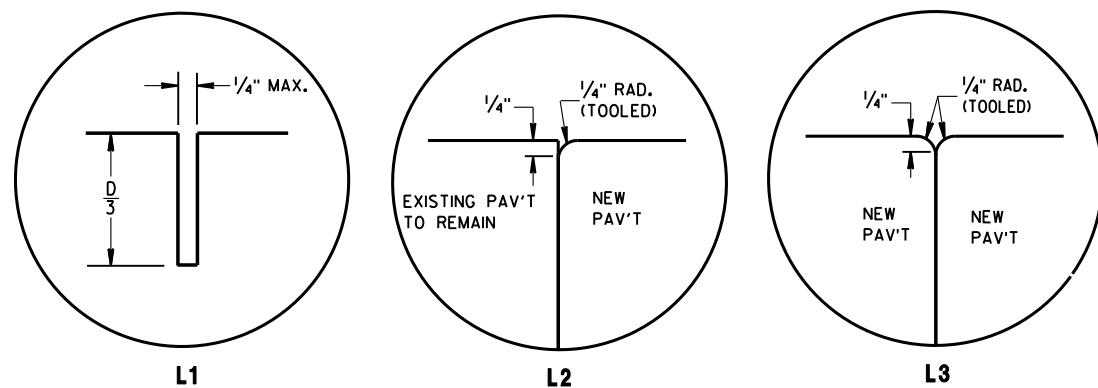
(SEE NOTE)



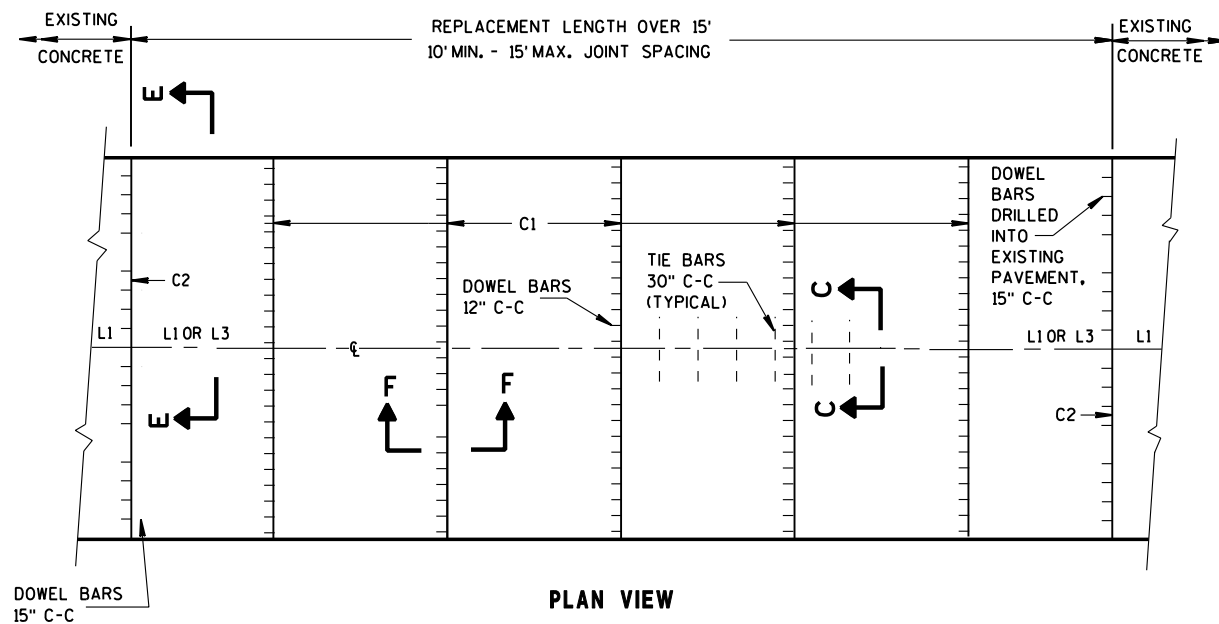
SECTION B-B



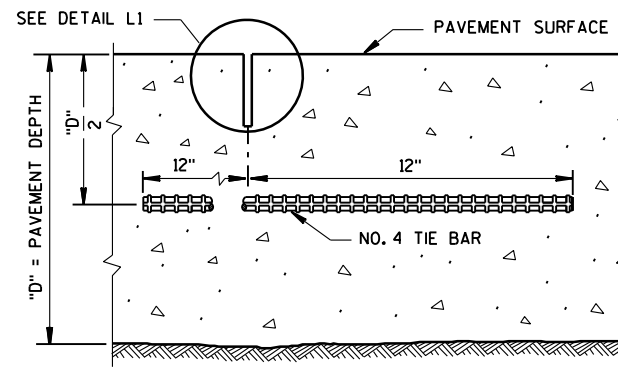
TRANSVERSE JOINTS



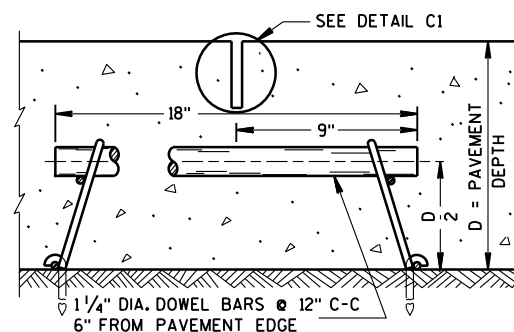
LONGITUDINAL JOINTS



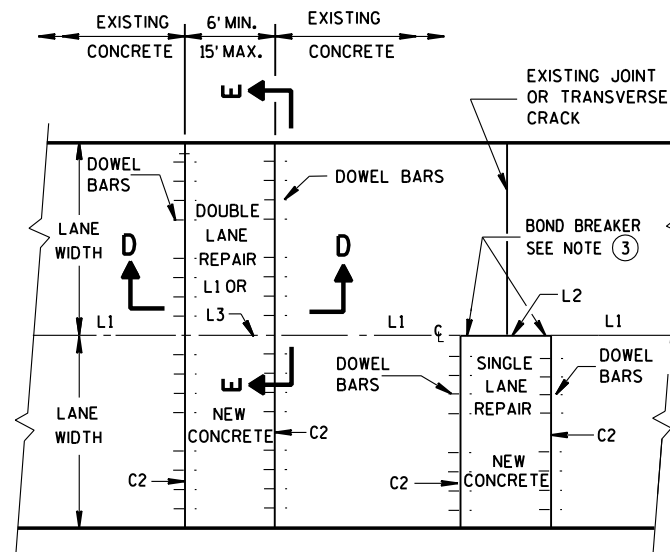
MULTI-LANE DOWELED CONCRETE PAVEMENT 10-INCH



SAWED LONGITUDINAL JOINT



CONTRACTION JOINT



CONCRETE PAVEMENT REPAIR SPECIAL

GENERAL NOTES

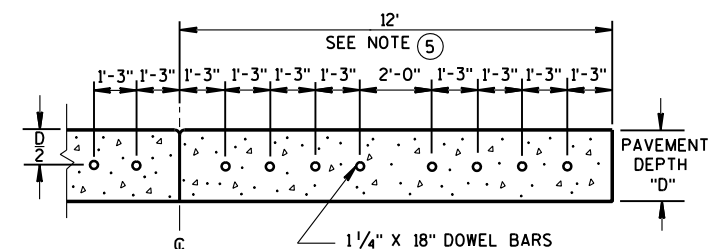
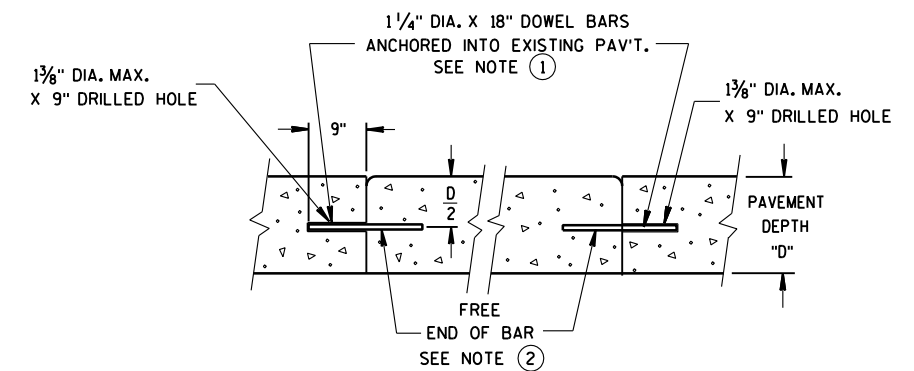
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE PAVEMENT REPAIRS OF EXISTING NON-DOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

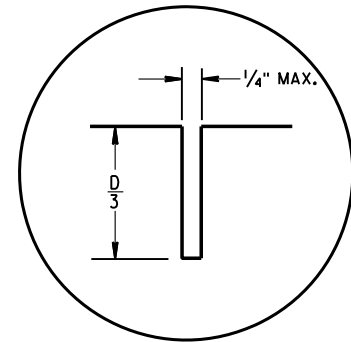
DO NOT SEAL OR FILL JOINTS.

NEW JOINTS MUST MATCH ADJACENT JOINT ORIENTATION IN DOWELED CONCRETE PAVEMENT SECTIONS (JOINT MUST BE SKEWED IF ADJACENT TO SKEWED JOINT).

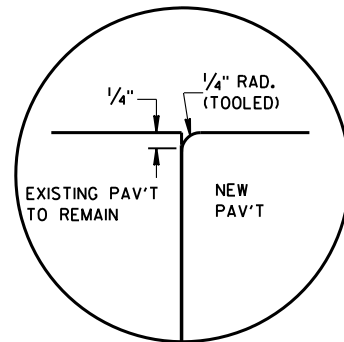
- ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.
- APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.
- USE AN ENGINEER-APPROVED BOND BREAKER FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
- CONCRETE PAVEMENT REPAIRS LESS THAN 15 FEET IN LENGTH ARE CONSIDERED CONCRETE PAVEMENT REPAIR SPECIAL. CONCRETE PAVEMENT REPLACEMENTS OVER 15 FEET IN LENGTH ARE CONSIDERED DOWELED CONCRETE PAVEMENT 10-INCH.
- FOR 14-FOOT LANE WIDTH USE SAME DOWEL LAYOUT AS 12-FOOT LANE (FROM CENTERLINE). FOR 16-FOOT LANE WIDTH REDUCE CENTER SPACE TO 1'-0", AND ADD FOUR DOWEL BARS FOR A TOTAL OF 12. USE THE SAME 1'-3" SPACING FOR ADDITIONAL DOWEL BARS.



SPACING OF DOWEL BARS DRILLED INTO EXISTING PAVEMENT

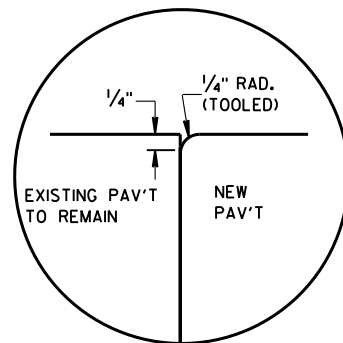


C1



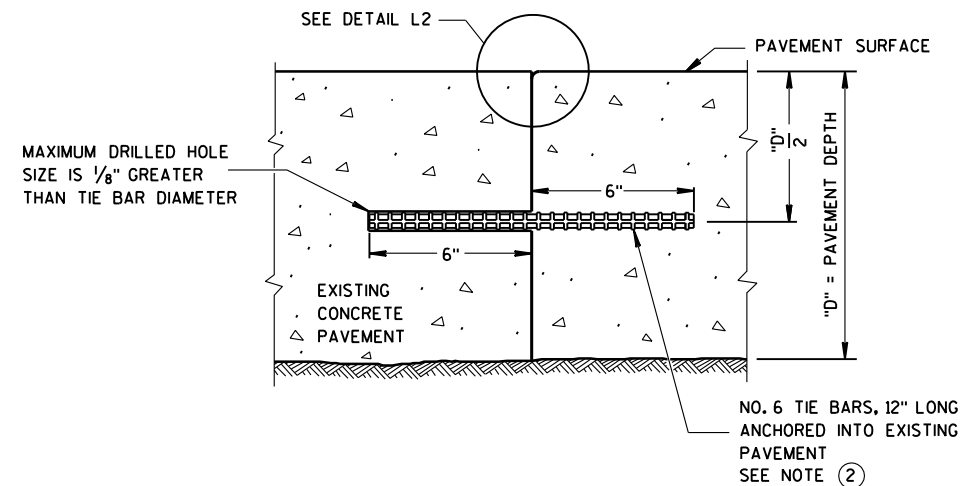
C2

TRANSVERSE JOINTS

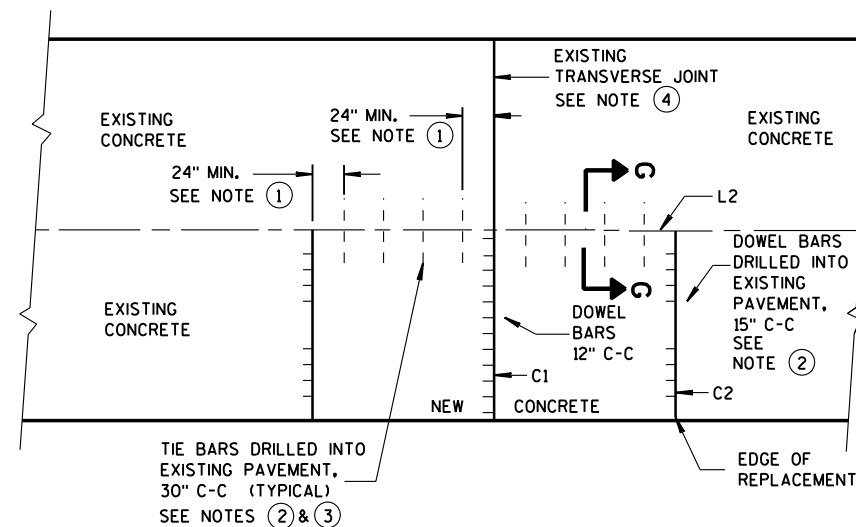


L2

LONGITUDINAL JOINT



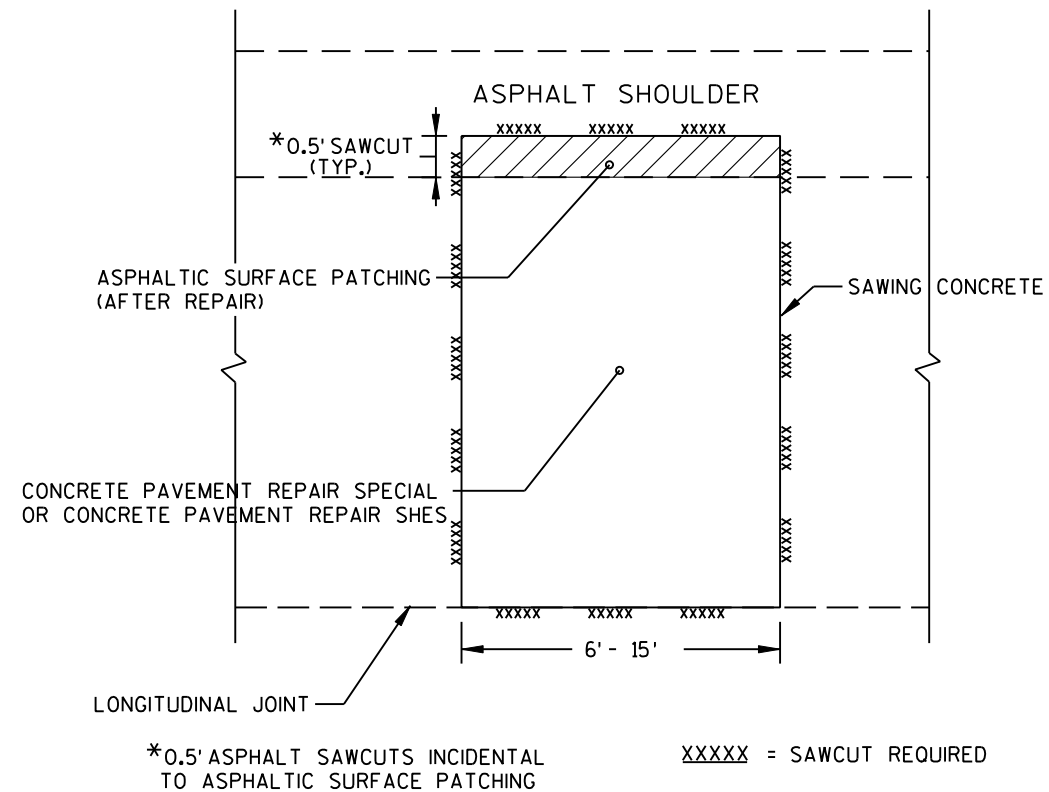
SECTION G-G
TIE BARS DRILLED
INTO EXISTING PAVEMENT



PLAN VIEW
SINGLE LANE
DOWELED CONCRETE PAVEMENT 10-INCH

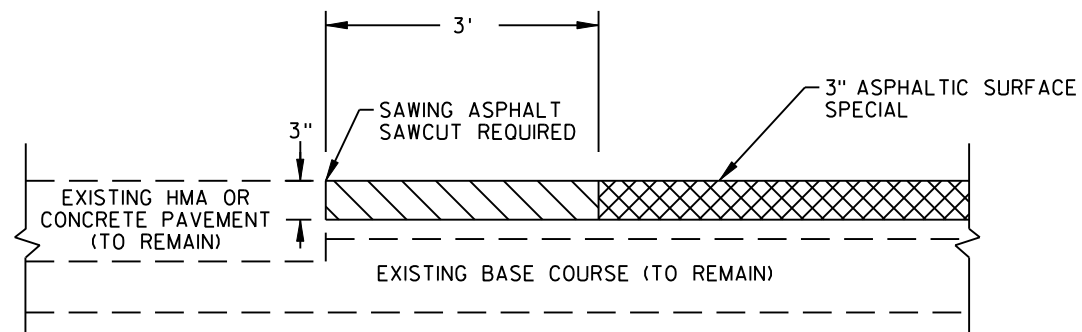
GENERAL NOTES

- ① PROVIDE A MINIMUM DISTANCE OF 24 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE, EXCEPT IF THE EXISTING JOINT OR EDGE ANGLE IS LESS THAN 90° TO THE REPLACEMENT AREA, THEN PROVIDE A DISTANCE OF 36 INCHES.
- ② ANCHOR TIE BARS AND DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.
- ③ WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES AND TO SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- ④ NEW JOINT MUST MATCH ORIENTATION OF ADJACENT JOINT. (JOINT MUST BE SKEWED IF ADJACENT TO SKEWED JOINT).

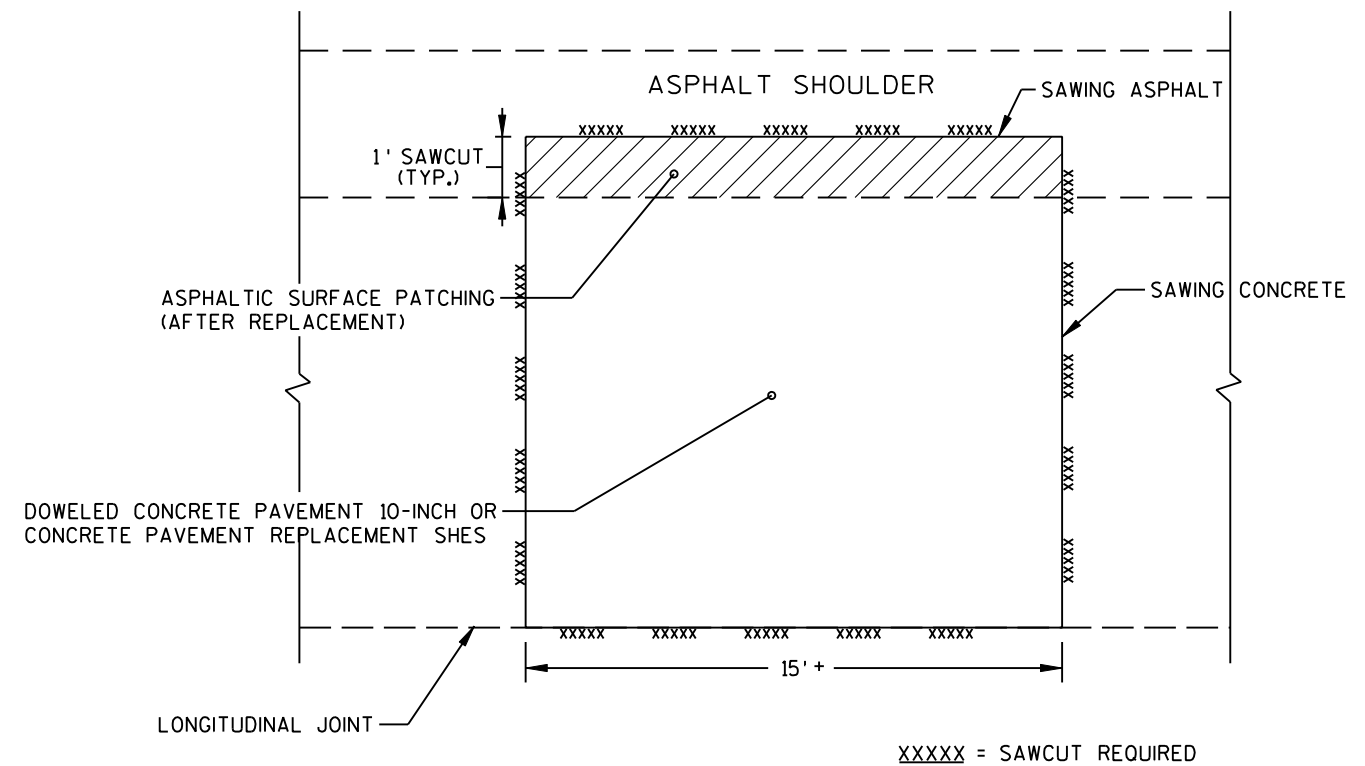


CONCRETE PAVEMENT REPAIR SAWCUT DETAIL

- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- REMOVING ASPHALTIC SURFACE MILLING

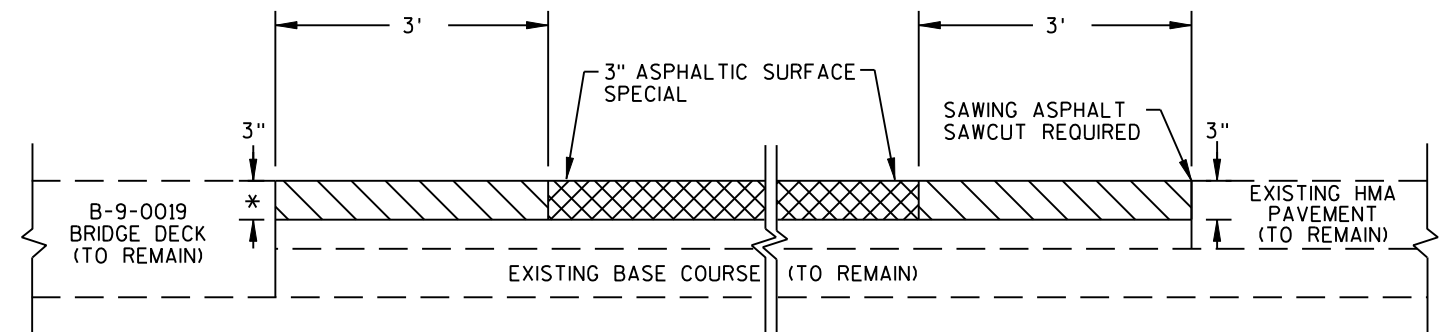


BUTT JOINT DETAIL

STH 27 RAMPs
CTH X RAMPs

CONCRETE PAVEMENT REPLACEMENT SAWCUT DETAIL

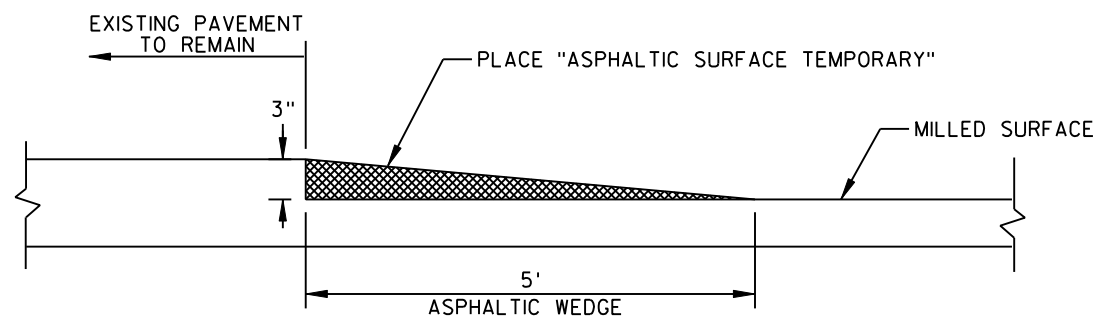
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- REMOVING ASPHALTIC SURFACE MILLING



BUTT JOINT DETAIL

CTH X OVERPASS

*HAND WORK TO REMOVE ASPHALT ALONG BRIDGE DECK IS
INCIDENTAL TO REMOVING ASPHALTIC SURFACE BUTT JOINTS



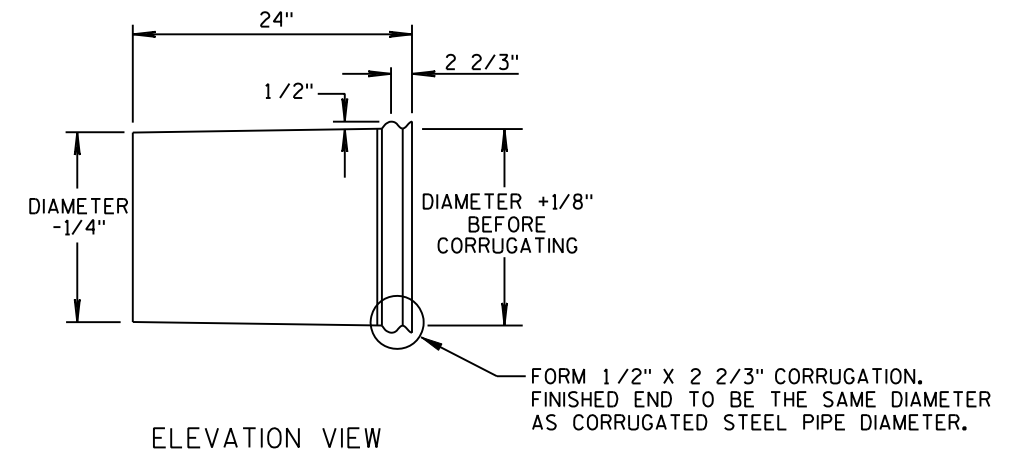
NOTES:

PROVIDE ASPHALTIC WEDGE PRIOR TO OPENING LANE TO TRAFFIC.

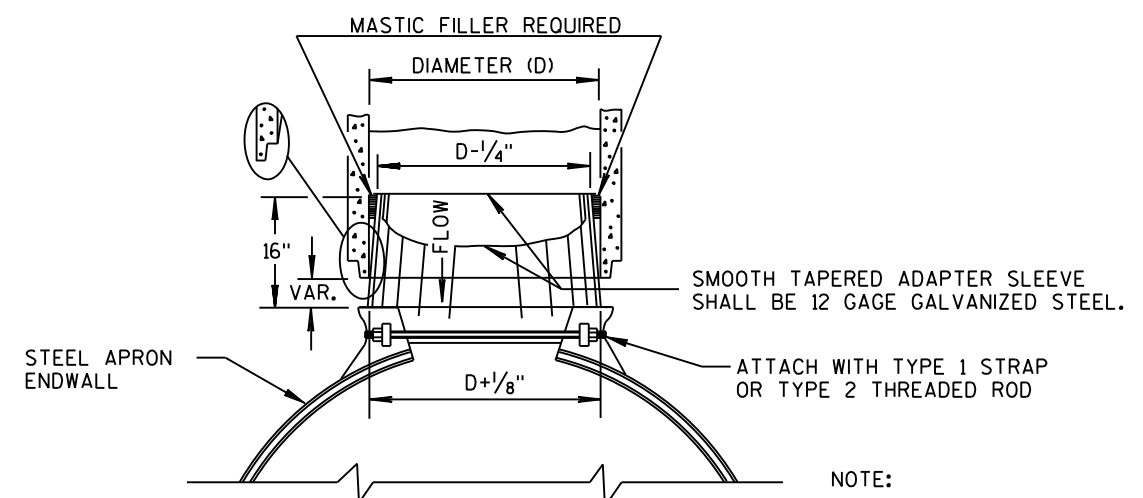
REMOVAL OF ASPHALTIC WEDGES WILL BE PAID FOR AS "REMOVING ASPHALTIC SURFACE BUTT JOINTS".

TEMPORARY WEDGE DETAIL

CTH X
CTH X RAMPS
STH 27 RAMPS



ELEVATION VIEW



PLAN VIEW

STEEL ADAPTER SLEEVE DETAIL

NOTE:
STEEL END SECTION SHALL BE FIRMLY WEDGED INTO CONCRETE PIPE END BEFORE BACKFILLING.

3

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.			REMOVING GUARDRAIL			FINISHING ROADWAY PROJECT 1050-01-64		
			204.0165			213.0100		
			STATION - STATION			LOCATION		
			156+04 - 157+88			STH 29 LT		
			156+21 - 158+05			STH 29 RT		
			211+71 - 213+23			STH 29 RT		
			212+73 - 213+23			STH 29 LT		
			234+87 - 236+54			STH 29 MEDIAN		
			235+95 - 236+65			STH 29 LT		
			286+00 - 287+67			STH 29 MEDIAN		
			287+08 - 287+80			STH 29 LT		
			300+27 - 302+11			STH 29 RT		
			303+05 - 303+56			STH 29 LT		
			379+62 - 381+28			STH 29 MEDIAN		
			381+72 - 382+27			STH 29 LT		
			422+96 - 424+63			STH 29 MEDIAN		
			423+84 - 424+24			STH 29 LT		
			451+80 - 453+59			STH 29 MEDIAN		
			532+48 - 534+98			STH 29 LT		
			538+26 - 538+64			STH 29 LT		
			536+45 - 538+29			STH 29 RT		
			610+38 - 612+28			STH 29 MEDIAN		
			610+91 - 612+44			STH 29 LT		
			97'X'+01 - 97'X'+94			CTH X RT		
			97'X'+58 - 98'X'+28			CTH X LT		
			TOTAL:			3979		
			REMOVING DELINEATORS AND MARKERS			204.0180		
			RAMP			LOCATION		
			CTH X ON-RAMP			RT & LT		
			CTH X OFF-RAMP			RT & LT		
			STH 27 ON-RAMP			RT & LT		
			STH 27 OFF-RAMP			RT & LT		
			TOTAL:			31		
			REMOVING FLUMES			204.9060.S		
			STATION			LOCATION		
			610'N'+90 LT			STH 27 OFF-RAMP		
			TOTAL:			1		
			REMOVING RAISED PAVEMENT MARKERS			646.0790.S		
			STATION			LOCATION		
			UNDISTRIBUTED			CTH X OFF-RAMP		
			TOTAL:			8		
			PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS			211.0400		
			STATION - STATION			LOCATION		
			PROJECT			6' OUTSIDE SHOULDER		
			PROJECT			3' INSIDE SHOULDER		
			UNDISTRIBUTED			PROJECT SHOULDERS		
			TOTAL:			313		
			REMOVING CURB & GUTTER			204.0150		
			STATION - STATION			LOCATION		
			609'P'+82 - 610'P'+18			RT, STH 27 ON-RAMP		
			609'P'+98 - 610'P'+18			LT, STH 27 ON-RAMP		
			610'N'+91 - 611'N'+36			LT, STH 27 OFF-RAMP		
			TOTAL:			166		

3

3

RAMP CONCRETE ITEMS

STATION - STATION	LOCATION	416.0620 DRILLED DOWEL BARS EACH	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	416.1725 CONCRETE PAVEMENT REPLACEMENT SHES SY	690.0250 SAWING CONCRETE LF
405'G'+39 - 405'G'+45	CTH X ON-RAMP	---	3	---	15
412'G'+06 - 412'G'+12	CTH X ON-RAMP	24	10	---	38
601'P'+14 - 601'P'+20	STH 27 ON-RAMP	24	11	---	38
602'P'+52 - 602'P'+62	STH 27 ON-RAMP	24	18	---	42
602'P'+95 - 603'P'+01	STH 27 ON-RAMP	24	11	---	38
603'P'+33 - 603'P'+39	STH 27 ON-RAMP	24	11	---	38
619'N'+83 - 619'N'+89	STH 27 OFF-RAMP	24	11	---	38
621'N'+12 - 621'N'+18	STH 27 OFF-RAMP	24	11	---	38
622'N'+43 - 622'N'+49	STH 27 OFF-RAMP	24	11	---	38
622'N'+85 - 622'N'+93	STH 27 OFF-RAMP	24	14	---	40
623'N'+97 - 624'N'+03	STH 27 OFF-RAMP	---	6	---	25
624'N'+19 - 624'N'+25	STH 27 OFF-RAMP	---	5	---	21
UNDISTRIBUTED	PROJECT RAMPS	48	18	40	32
TOTALS:		264 *	140	40	441 *

*SUB-TOTAL - SEE ITEM SUMMARY ON LAST MISCELLANEOUS QUANTITIES SHEET FOR TOTAL.

ASPHALT ITEMS

STATION - STATION	LOCATION	455.0605 TACK COAT GAL.	465.0105 ASPHALTIC SURFACE TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0125 ASPHALTIC SURFACE TEMP. TON	SPV.0195.01 ASPHALTIC SURFACE SPECIAL TON	465.0400 ASPH. SHOULDER RUMBLE STRIP LF
416'G'+88 - 421'G'+94	CTH X ON-RAMP	38	---	---	---	255	---
409+98 - 415+80	CTH X ON-RAMP GORE	---	74	---	---	---	---
422'F'+56 - 430'F'+80	CTH X OFF-RAMP	54	---	---	---	365	---
430+90 - 433+83	CTH X OFF-RAMP GORE	---	64	---	---	---	---
603'P'+83 - 610'P'+33	STH 27 ON-RAMP	47	---	---	---	319	---
610'P'+28 - 610'P'+33	STH 27 ON-RAMP	---	---	---	2.5	---	---
611'N'+05 - 619'N'+23	STH 27 OFF-RAMP	63	---	---	---	422	---
611'N'+05 - 611'N'+10	STH 27 OFF-RAMP	---	---	---	2.5	---	---
95'X'+10 - 98'X'+19	CTH X	35	---	---	---	237	---
95'X'+10 - 95'X'+15	CTH X	---	---	---	1.5	---	---
98'X'+14 - 98'X'+19	CTH X	---	---	---	1.5	---	---
PROJECT	6' OUTSIDE SHOULDER	---	248	---	---	---	2232
PROJECT	3' INSIDE SHOULDER	---	1542	---	---	---	27535
CONCRETE REPLACEMENT	DRIVING LANE SHOULDER	---	---	62	---	---	---
CONCRETE REPLACEMENT	PASSING LANE SHOULDER	---	---	28	---	---	---
CONCRETE REPAIR	DRIVING LANE SHOULDER	---	---	14	---	---	---
CONCRETE REPAIR	PASSING LANE SHOULDER	---	---	14	---	---	---
UNDISTRIBUTED	PROJECT SHOULDERS	---	112	30	7	---	1500
TOTALS:		237	2040	148	15	1598	31267

ASPHALTIC FLUMES

STATION	LOCATION	465.0310 SY
610'N'+90 LT	STH 27 OFF-RAMP	6
TOTAL:		6

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

3

3

CULVERT PIPE ITEMS

STATION	LOCATION	521.1018	522.1024	520.7000	SPV.0060.01	633.5200	SPV.0090.01	REMARKS
		APRON ENDWALL CULVERT PIPE STEEL 18-INCH EACH	APRON ENDWALL C.P. REINFORCED CONCRETE 24-INCH EACH	CLEANING CULVERT PIPES EACH	RESETTING PIPE ENDS EACH	MARKERS CULVERT END EACH	REGRADE DITCH LF	
141+99	LT	---	---	1	---	1	---	
189+94	LT	---	---	1	---	---	100	REGRADE DITCH TO DRAIN WEST
189+94	RT	---	---	---	---	1	---	
204+53	LT	---	---	1	---	---	50	REGRADE DITCH TO DRAIN WEST
214+50	LT	---	1	---	---	---	---	
219+50	LT	---	---	---	---	1	---	
235+10	LT	---	---	1	---	1	25	REGRADE DITCH TO DRAIN EAST
283+53	RT & LT	2	---	1	---	---	---	
286+32	LT	---	---	1	---	---	25	REGRADE DITCH TO DRAIN EAST
293+50	LT	---	---	---	---	---	50	REGRADE DITCH 25' EAST, 25' WEST
300+56	LT	---	---	1	---	---	75	REGRADE DITCH TO DRAIN WEST
300+56	RT	---	---	---	---	1	---	
335+50	LT	---	---	1	---	---	25	REGRADE DITCH TO DRAIN EAST
338+52	RT & LT	---	---	1	---	---	---	
352+02	LT	1	---	---	---	---	---	
352+02	RT	1 *	---	---	---	---	---	
371+85	LT	---	---	---	1	1	---	
375+95	LT	1	---	---	---	---	100	REGRADE DITCH TO DRAIN WEST
375+95	RT	1	---	---	---	---	---	
384+83	LT	---	---	---	1	1	---	
395+00	LT	---	---	1	---	1	50	REGRADE DITCH TO DRAIN EAST
395+00	RT	1	---	---	---	---	---	
404+66	RT	---	---	---	---	1	---	
409+01	LT	---	---	1	---	1	---	
412+95	LT	---	---	---	---	1	---	
421+80	LT	---	---	---	---	---	25	REGRADE DITCH TO NORTH
426+70	LT	---	---	1	---	---	20	REGRADE DITCH TO NORTH
434+70	LT	---	---	1	---	---	25	REGRADE DITCH TO NORTH
436+70	LT	---	---	1	---	---	25	REGRADE DITCH TO NORTH
446+00	RT	1 *	---	---	---	---	---	
456+02	LT	---	---	1	---	---	25	REGRADE DITCH TO NORTH
463+51	LT	---	---	1	---	---	50	REGRADE DITCH 25' EAST, 25' WEST
473+28	RT & LT	---	---	1	---	---	---	
482+50	RT	1 *	---	---	---	---	---	
490+53	LT	---	---	1	---	1	25	REGRADE DITCH TO DRAIN WEST
490+53	RT	---	---	---	---	1	---	
506+52	LT	---	---	---	---	---	50	REGRADE DITCH TO DRAIN EAST
513+50	LT	---	---	1	---	---	50	REGRADE DITCH TO DRAIN EAST
518+50	LT	---	---	1	---	---	50	REGRADE DITCH TO DRAIN EAST
518+50	RT	---	---	---	---	---	50	REGRADE DITCH 25' EAST, 25' WEST
528+50	RT & LT	---	---	1	---	---	---	
536+95	LT	---	---	---	---	1	---	
544+46	LT	---	---	---	---	---	25	REGRADE DITCH TO DRAIN EAST
553+46	LT	1	---	---	---	---	---	
562+48	LT	---	---	1	---	---	50	REGRADE DITCH TO DRAIN EAST
562+48	RT	---	---	---	---	---	50	REGRADE DITCH 25' EAST, 25' WEST
572+48	LT	---	---	1	---	---	50	REGRADE DITCH TO DRAIN WEST
578+48	LT	---	---	1	---	---	25	REGRADE DITCH TO DRAIN WEST
584+48	LT	---	---	1	---	1	25	REGRADE DITCH TO DRAIN WEST
590+46	LT	---	---	1	---	1	50	REGRADE DITCH TO DRAIN WEST
596+53	LT	---	---	1	---	---	50	REGRADE DITCH TO DRAIN EAST
603+74	LT	---	---	1	---	1	100	REGRADE DITCH TO DRAIN WEST
608+51	LT	---	---	1	---	1	150	REGRADE DITCH TO DRAIN WEST
608+51	RT	---	---	---	---	1	---	
UNDISTRIBUTED	PROJECT	---	---	---	1	3	100	ADDITIONAL WORK TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
TOTALS:		10	1	29	3	22	1570	

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE
ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

* A MINIMUM OF THREE APRON ENDWALLS REQUIRE THE USE OF SMOOTH STEEL ADAPTER SLEEVES (SEE CONSTRUCTION DETAIL).
ALL ADAPTER SLEEVES ARE INCIDENTAL TO ENDWALL INSTALLATION. SEE SPECIAL PROVISION FOR APRON ENDWALLS STEEL.

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NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.			BEAM GUARD ITEMS								
			614.0105	614.0115	614.0200	614.0220	614.0230	614.0305	614.0345	614.0370	614.0390
			ANCHORAGES FOR STEEL PLATE BEAM GUARD	ANCHORAGES FOR STEEL PLATE BG TYPE 2	STEEL THRIE BEAM STRUCTURE APPROACH	STEEL THRIE BEAM BULLNOSE TERMINAL	STEEL THRIE BEAM	STEEL PLATE BEAM GUARD CLASS A	STEEL PLATE BEAM GUARD SHORT RADIUS	STEEL PLATE BEAM GUARD E.A. TERMINAL	STEEL PLATE BEAM GUARD S.R. TERMINAL
STATION -	STATION	LOCATION	EACH	EACH	LF	EACH	LF	LF	LF	EACH	EACH
152+83.5		STH 29 LT	---	1	---	---	---	---	---	---	---
152+83.5 -	153+46	STH 29 LT	---	---	---	---	---	62.5	---	---	---
156+03.5 -	156+24	STH 29 LT	---	---	21	---	---	---	---	---	---
156+24 -	158+36.5	STH 29 LT	---	---	---	---	---	212.5	---	---	---
158+86.5		STH 29 LT	---	---	---	---	---	---	---	1	---
156+21.5 -	156+42	STH 29 RT	---	---	21	---	---	---	---	---	---
156+42 -	158+54.5	STH 29 RT	---	---	---	---	---	212.5	---	---	---
159+04.5		STH 29 RT	---	---	---	---	---	---	---	1	---
207+50 -	210+20	STH 29 LT	---	---	---	---	---	---	---	---	---
212+73 -	214+85.5	STH 29 LT	---	---	---	---	---	212.5	---	---	---
215+35.5		STH 29 LT	---	---	---	---	---	---	---	1	---
211+71.5 -	213+09	STH 29 RT	---	---	---	---	---	137.5	---	---	---
213+59		STH 29 RT	---	---	---	---	---	---	---	1	---
234+58.5 -	235+12	MEDIAN RT	---	---	---	1	---	---	---	---	---
235+12 -	236+24.5	MEDIAN RT	---	---	---	---	225	---	---	---	---
236+24.5 -	236+78	MEDIAN RT	---	---	---	1	---	---	---	---	---
235+95 -	236+15.5	STH 29 LT	---	---	21	---	---	---	---	---	---
236+15.5 -	238+03	STH 29 LT	---	---	---	---	---	187.5	---	---	---
238+53		STH 29 LT	---	---	---	---	---	---	---	1	---
285+67.5 -	286+21	MEDIAN RT	---	---	---	1	---	---	---	---	---
286+21 -	287+46	MEDIAN RT	---	---	---	---	250	---	---	---	---
287+46 -	287+99	MEDIAN RT	---	---	---	1	---	---	---	---	---
287+09.5 -	287+30.5	STH 29 LT	---	---	21	---	---	---	---	---	---
287+30.5 -	289+18	STH 29 LT	---	---	---	---	---	187.5	---	---	---
289+68		STH 29 LT	---	---	---	---	---	---	---	1	---
298+15 -	299+00	STH 29 LT	---	---	---	---	---	---	---	---	---
303+05 -	304+67.5	STH 29 LT	---	---	---	---	---	162.5	---	---	---
305+17.5		STH 29 LT	---	---	---	---	---	---	---	1	---
300+27 -	300+47.5	STH 29 RT	---	---	21	---	---	---	---	---	---
300+47.5 -	302+47.5	STH 29 RT	---	---	---	---	---	200	---	---	---
302+97.5		STH 29 RT	---	---	---	---	---	---	---	1	---
379+31.5 -	379+85	MEDIAN RT	---	---	---	1	---	---	---	---	---
379+85 -	381+10	MEDIAN RT	---	---	---	---	250	---	---	---	---
381+10 -	381+63	MEDIAN RT	---	---	---	1	---	---	---	---	---
381+72 -	383+84.5	STH 29 LT	---	---	---	---	---	212.5	---	---	---
384+34.5		STH 29 LT	---	---	---	---	---	---	---	1	---
424+34		STH 29 LT	---	---	---	---	---	---	---	1	---
422+60.5 -	423+14	MEDIAN RT	---	---	---	1	---	---	---	---	---
423+14 -	424+51.5	MEDIAN RT	---	---	---	---	275	---	---	---	---
424+51.5 -	425+05	MEDIAN RT	---	---	---	1	---	---	---	---	---
451+48.5 -	452+02	MEDIAN RT	---	---	---	1	---	---	---	---	---
452+02 -	453+39.5	MEDIAN RT	---	---	---	---	275	---	---	---	---
453+39.5 -	453+93	MEDIAN RT	---	---	---	1	---	---	---	---	---
452+50		STH 29 LT	---	1	---	---	---	---	---	---	---
45250 -	455+75	STH 29 LT	---	---	---	---	---	325	---	---	---
456+25		STH 29 LT	---	---	---	---	---	---	---	1	---
534+60		STH 29 LT	---	1	---	---	---	---	---	---	---
534+60 -	534+97.5	STH 29 LT	---	---	---	---	---	37.5	---	---	---
538+26 -	539+01	STH 29 LT	---	---	---	---	---	75	---	---	---
539+51		STH 29 LT	---	---	---	---	---	---	---	1	---
536+45 -	536+65.5	STH 29 RT	---	---	21	---	---	---	---	---	---
536+65.5 -	537+90.5	STH 29 RT	---	---	---	---	---	125	---	---	---
538+40.50		STH 29 RT	---	---	---	---	---	---	---	1	---
610+02 -	610+55.5	MEDIAN RT	---	---	---	1	---	---	---	---	---
610+55.5 -	612+18	MEDIAN RT	---	---	---	---	325	---	---	---	---
612+18 -	612+71.5	MEDIAN RT	---	---	---	1	---	---	---	---	---
610+17		STH 29 LT	---	1	---	---	---	---	---	---	---
610+17 -	613+67	STH 29 LT	---	---	---	---	---	350	---	---	---
614+17		STH 29 LT	---	---	---	---	---	---	---	1	---
90'X'+50 -		CTH X SW Quad, RT	---	---	---	---	---	---	---	1	---
91'X'+00 -	94'X'+87.5	CTH X SW Quad, RT	---	---	---	---	---	387.5	---	---	---
95'X'+37.5		CTH X SW Quad, RT	---	---	---	---	---	---	---	1	---
96'X'+13		CTH X SW Quad, RT	---	---	---	---	---	---	---	---	1
96'X'+13 -	96'X'+37.5	CTH X SW Quad, RT	---	---	---	---	---	---	50	---	---
96'X'+37.5 -	97'X'+75	CTH X SW Quad, RT	---	---	---	---	---	137.5	---	---	---
97'X'+75 -	97'X'+94	CTH X SW Quad, RT	---	---	19	---	---	---	---	---	---
90'X'+25		CTH X NW Quad, LT	---	---	---	---	---	---	---	1	---
90'X'+75 -	94'X'+87.5	CTH X NW Quad, LT	---	---	---	---	---	412.5	---	---	---
95'X'+37.5		CTH X NW Quad, LT	---	---	---	---	---	---	---	1	---
97'X'+48		CTH X NW Quad, LT	---	---	---	---	---	---	---	---	---
97'X'+48 -	97'X'+71	CTH X NW Quad, LT	---	---	---	---	---	---	75	---	---
97'X'+71 -	98'X'+09	CTH X NW Quad, LT	---	---	---	---	---	37.5	---	---	---
98'X'+09 -	98'X'+28	CTH X NW Quad, LT	---	---	19	---	---	---	---	---	---
423'F'+88	- 424'F'+53	OFF-RAMP RT	---	---	---	---	---	65	---	---	---
424'F'+53		OFF-RAMP RT	1	---	---	---	---	---	---	---	---
TOTALS:			1	4	164	12	1600	3740	125	18	---

PROJECT NO: 1050-01-63

HWY: STH 29 WB

COUNTY: CHIPPEWA

MISCELLANEOUS QUANTITIES

SHEET

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GRADING SHAPING & FINISHING FOR BARRIER TERMINALS

STATION LOCATION POST #1	* EXCAVATION COMMON CY	* BORROW (FILL)	* FERTILIZER TYPE B CWT	* SEEDING LB	* MULCHING SY	ITEM 205.9006.S EACH
158+86.5 LT	9	---	0.02	0.7	25	1
159+04.5 RT	8	---	---	---	---	1
215+35.5 LT	8	---	0.04	1.5	50	1
213+56 RT	10	---	---	---	---	1
234+58.5 RT	---	---	0.3	13	475	1
236+78 RT	---	---	0.3	13	475	1
238+53 LT	8	---	0.03	1	35	1
285+67.5 RT	---	---	0.3	13	475	1
287+99 RT	---	---	0.3	13	475	1
289+68 LT	6.5	---	0.06	2.5	95	1
302+97.5 RT	6.5	---	0.1	4.5	155	1
305+17.5 LT	5	---	0.05	2	80	1
379+31.5 RT	---	---	0.3	13	475	1
381+63 RT	---	---	0.3	13	475	1
384+34.5 LT	9	---	0.07	2.5	100	1
424+34 LT	5	---	0.05	2	80	1
422+60.5 RT	---	---	0.3	13	475	1
425+05 RT	---	---	0.3	13	475	1
451+48.5 RT	---	---	0.3	13	475	1
453+93 RT	---	---	0.3	13	475	1
456+25 LT	6.5	---	0.06	2.5	95	1
539+51 LT	6.5	---	0.06	2.5	95	1
538+40.5 RT	5	---	0.05	2	80	1
610+02 RT	---	---	0.3	13	475	1
612+71.5 RT	---	---	0.3	13	475	1
614+17 LT	9	---	0.07	2.5	100	1
90'X'+50 RT	5	---	0.07	2.5	100	1
95'X'+37.5 RT	5	---	0.1	4.5	155	1
90'X'+25 LT	5	---	0.07	2.5	100	1
95'X'+37.5 LT	5	---	0.1	4.5	155	1
96'X'+13 RT	5	---	0.05	2	80	1
424'F'+53 RT	5	---	0.1	4.5	155	1
TOTALS:	132	**	4.75	203	7435	32

* ITEMS AND QUANTITIES LISTED FOR BID INFORMATION ONLY. SEEDING QUANTITIES ARE FOR BOTH MIXTURE NO. 20 AND TEMPORARY **SEE BAD 1 1/4-INCH ITEM FOR FILL QUANTITIES

CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D CONSTRUCTION STAKING CURB & GUTTER

STATION - STATION	LOCATION	601.0557 CONCRETE CURB & GUTTER LF	650.5500 STAKING CURB & GUTTER LF
609'P'+82 - 610'P'+18	RT, STH 27 ON-RAMP	47	47
609'P'+98 - 610'P'+18	LT, STH 27 ON-RAMP	63	63
610'N'+91 - 611'N'+36	LT, STH 27 OFF-RAMP	56	56
TOTALS:		166	166

PIPE UNDERDRAIN ITEMS

LOCATION	612.0106 6-INCH LF	612.0206 UNPERFORATED 6-INCH LF	612.0806 APRON ENDWALL REINF. CONCRETE EACH	645.0111 GEOTEXTILE FABRIC TYPE DF SY
UNDISTRIBUTED	200	40	2	110

LANDSCAPE ITEMS

LOCATION	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIX. NO. 20 LB	630.0200 SEEDING TEMPORARY LB
MEDIAN BULLNOSE APPROACHES	5120	3.23	138	138
UNDISTRIBUTED	445	0.27	12	12
TOTALS:	5565	3.5	150	150

MAINTENANCE AND REPAIR OF HAUL ROADS PROJECT 1050-01-63

LOCATION PROJECT	618.0100 EACH
TOTAL:	1

MOBILIZATION

LOCATION PROJECT	619.1000 EACH
TOTAL:	1

MOBILIZATIONS EROSION CONTROL

LOCATION PROJECT	STAGE	628.1905 EACH
PROJECT	1	1
PROJECT	2	1
TOTAL:		2

MOBILIZATIONS EMERGENCY EROSION CONTROL

LOCATION PROJECT	STAGE	628.1910 EACH
PROJECT	1	1
PROJECT	2	1
TOTAL:		2

FIELD OFFICE TYPE C

LOCATION PROJECT	642.5201 EACH
TOTAL:	1

REPLACING GUARDRAIL POSTS AND BLOCKS REPLACING GUARDRAIL RAIL AND HARDWARE

STATION - STATION	LOCATION	614.0950 REPLACING GUARDRAIL POSTS AND BLOCKS EACH	614.0951 REPLACING GUARDRAIL RAIL AND HARDWARE LF
153+46 - 154+70	LT	---	50
207+50 - 210+20	LT	---	50
211+70 - 212+73	LT	---	50
298+15 - 299+00	LT	---	25
300+55 - 303+05	LT	---	50
UNDISTRIBUTED	RT & LT	36	25
TOTALS:		36	250

EROSION CONTROL ITEMS

LOCATION	628.1504 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTEN. LF	628.2004 E-MAT CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH
STILLSON CREEK LT	---	440	440	---	---
STILLSON CREEK RT	---	315	315	---	---
PAINT CREEK LT	---	260	260	---	---
PAINT CREEK RT	---	300	300	---	---
STA 409+01 PIPE LT	---	50	50	---	---
UNDISTRIBUTED	20	100	100	1000	4
TOTALS:	20	1465	1465	1000	4

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

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APPROX. STATION / LOCATION	SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE W X H (INCHES)	637.0202 SIGNS TYPE II REFLECTIVE SF	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	635.0300 SIGN SUPPORTS REPLACING BASE CONNECT. BOLTS EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
169+08 LT	6	I-55-56	ADOPT-A-HIGHWAY IBM EAU CLAIRE	30 X 36	7.50	1	---	---	---	1	1	REMOVE EXISTING 2 SIGNS WITH SAME MESSAGE
170+65 RT	10	R3-4B	NO U TURN MAINTENANCE CROSSOVER VEHICLES	36 X 48	12.00	---	---	---	---	2	1	
172+10 LT	14	D10-2	MILE 83	12 X 36	3.00	1	---	---	---	1	1	
187+45 LT	---	---	EXIT 81 J Lake Wissota 1 MILE	---	---	---	---	2	---	---	---	REPLACE EACH BASE BOLT ON EXIST. TYPE 1 SIGN SUPPORTS
224+85 LT	18	D10-2	MILE 84	12 X 36	3.00	1	---	---	---	1	1	REMOVE EXISTING 2 SIGNS WITH SAME MESSAGE
274+65 RT	22	R3-4B	NO U TURN MAINTENANCE CROSSOVER VEHICLES	36 X 48	12.00	---	1	---	---	2	1	
277+55 LT	24	D10-2	MILE 85	12 X 36	3.00	1	---	---	---	1	1	
287+20 LT	26	M1-94	HWY K	54 X 21	7.88	2	---	---	---	1	2	
330+09 LT	30	D10-2	MILE 86	12 X 36	3.00	1	---	---	---	1	1	
372+03 LT	---	---	Chippewa Falls 10 I-94 31	---	---	---	---	2	---	---	---	
382+12 LT	34	D10-2	MILE 87	12 X 36	3.00	1	---	---	---	1	1	REPLACE EACH BASE BOLT ON EXIST. TYPE 1 SIGN SUPPORTS
387+06 LT	36	R2-1	SPEED LIMIT 65	48 X 60	20.00	---	2	---	---	1	2	
395+90 RT	38	R3-4B	NO U TURN MAINTENANCE CROSSOVER VEHICLES	36 X 48	12.00	---	1	---	---	2	1	
397+20 LT	40	J4-1	WEST	36 X 51	12.75	---	1	---	---	2	1	
			29 (State Route Marker)			---	---	---	---	---	---	
419'G'+75	42	R5-57	PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC...	36 X 36	9.00	1	---	---	---	1	1	
89'X'+68 RT	44	J1-1	JCT	24 X 39	6.50	---	1	---	---	2	1	
			29 (State Route Marker)			---	---	---	---	---	---	
94'X'+00 LT	46	J4-1	WEST	24 X 36	6.00	---	1	---	---	2	1	
			X (County Route Marker)			---	---	---	---	---	---	INSTALL SIGN ASSEMBLY FACING EB CTH X TRAFFIC
95'X'+16 RT	48	J3-1	WEST	24 X 57	9.50	---	1	---	---	3	1	
			29 (State Route Marker)			---	---	---	---	---	---	
			Directional Arrow (RIGHT)			---	---	---	---	---	---	INSTALL SIGN ASSEMBLY FACING WB TRAFFIC ON SAME POST OPPOSITE SIGN NO. 48
95'X'+16 RT	50	J3-1	WEST	24 X 57	9.50	---	---	---	---	3	---	
			29 (State Route Marker)			---	---	---	---	---	---	
			Directional Arrow (LEFT)			---	---	---	---	---	---	
95'X'+17 RT	52	R3-2	NO LEFT TURN	24 X 24	4.00	1	---	---	---	1	1	
422'F'+65 LT	54	R1-1	STOP	36 X 36	7.46	---	1	---	---	1	1	
423'F'+22 RT	56	R1-1	STOP	36 X 36	7.46	1	---	---	---	1	1	
423'F'+76 LT	58	R5-1	DO NOT ENTER	36 X 36	9.00	---	1	---	---	1	1	
			X (County Route Marker)			---	---	---	---	---	---	
423'F'+76 LT	60	J13-1	Directional Arrow (RIGHT & LEFT)	24 X 45	7.50	---	---	---	---	2	---	INSTALL SIGN ASSEMBLY FACING RAMP TRAFFIC ON SAME POST OPPOSITE SIGN NO. 58
423'F'+86 LT	62	R5-1	DO NOT ENTER	36 X 36	9.00	---	1	---	---	1	1	
97'X'+67 LT	64	R3-1	NO RIGHT TURN	24 X 24	4.00	1	---	---	---	1	1	
97'X'+67 LT	66	R3-2	NO LEFT TURN	24 X 24	4.00	---	---	---	---	1	---	
			WEST			---	---	---	---	---	---	INSTALL SIGN ON SAME POST OPPOSITE SIGN NO. 64
97'X'+80 LT	68	J3-1	29 (State Route Marker)	24 X 57	9.50	---	1	---	---	3	1	
			Directional Arrow (LEFT)			---	---	---	---	---	---	
97'X'+83 RT	70	D1-1	Wausau left arrow	60 X 15	6.25	2	---	---	---	1	2	
98'X'+02 RT	72	W5-52R	Clearance Marker Right	12 X 36	3.00	1	---	---	---	1	1	
98'X'+30 LT	74	W5-52L	Clearance Marker Left	12 X 36	3.00	1	---	---	---	1	1	
423+80 LT	76	W4-1	Merging Right	48 x 48	16.00	---	2	---	---	1	2	
425'F'+90 RT	78	R5-1A	WRONG WAY	42 X 30	8.75	---	1	---	---	1	1	
425'F'+90 LT	80	R5-1A	WRONG WAY	42 X 30	8.75	---	---	---	---	1	---	
425'F'+90 LT	82	D1-1	Cadott (Left arrow)	54 X 15	5.63	---	2	---	---	1	2	INSTALL SIGN ON SAME POSTS BELOW SIGN NO. 82
425'F'+90 LT	84	D7-53R	Lake Wissota State Park (Right arrow)	60 X 36	15.00	---	---	---	---	1	---	
428'F'+00 LT	86	M1-85	HERITAGE Wisconsin logo	24 X 24	4.00	---	1	---	---	1	1	
428'F'+00 LT	88	M1-85D	CABIN RIDGE RIDES #247 (Right arrow)	24 X 12	2.00	---	---	---	---	1	---	INSTALL SIGN ON SAME POST BELOW SIGN NO. 86
429+52 LT	90	E5-1A	EXIT 87 Right arrow	72 X 60	30.00	---	2	---	---	1	2	
430'F'+64 LT	92	W3-1	Stop Ahead symbol	48 x 48	16.00	---	2	---	---	1	1	
435+85 LT	---	---	EXIT 87 X Lake Wissota State Park diagonal arrow	---	---	---	---	2	---	---	---	
												NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.
SHEET TOTALS					319.93	16	23	6	0	51	38	

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APPROX. STATION / LOCATION	SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE W X H (INCHES)	637.0202 SIGNS TYPE II REFLECTIVE S.F.	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	635.0300 SIGN SUPPORTS REPLACING BASE CONNECT. BOLTS EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
443+15 LT	94	D10-2	MILE 88	12 X 36	3.00	1	---	---	---	1	1	
453+63 LT	96	M1-94	Hwy XX	60 X 21	8.75	---	2	---	---	1	1	
462+66 RT	98	R3-4B	NO U TURN MAINTENANCE CROSSOVER VEHICLES	36 X 48	12.00	---	1	---	---	1	1	
484+46 LT	---	---	EXIT 87 X Lake Wissota State Park 1 MILE	---	---	---	---	2	---	---	---	REPLACE EACH BASE BOLT ON EXIST. TYPE 1 SIGN SUPPORTS
487+10 LT	100	D10-2	MILE 89	12 X 36	3.00	1	---	---	---	1	1	
532+70 LT	104	R8-7	EMERGENCY STOPPING ONLY	48 X 36	12.00	---	2	---	---	1	1	
537+10 LT	106	M1-94	Hwy X	54 X 21	7.88	---	2	---	---	1	2	
541+24 LT	108	D10-2	MILE 90	12 X 36	3.00	1	---	---	---	1	1	
555+45 RT	110	R4-3	SLOWER TRAFFIC KEEP RIGHT	48 X 60	20.00	---	2	---	---	1	2	
571+49 LT	---	---	Chippewa Falls 13	---	---	---	---	2	---	---	---	REPLACE EACH BASE BOLT ON EXIST. TYPE 1 SIGN SUPPORTS
577+61 LT	112	R2-1	SPEED LIMIT 65	48 X 60	20.00	---	2	---	---	1	2	
585+65 LT	114	J4-1	WEST 29 (State Route Marker)	36 X 51	12.75	---	1	---	---	2	1	
590+43 RT	116	R3-4B	NO U TURN MAINTENANCE CROSSOVER VEHICLES	36 X 48	12.00	---	1	---	---	1	1	
591+86 LT	118	D10-2	MILE 91	12 X 36	3.00	1	---	---	---	1	1	
607'P+35 LT	120	R5-57	PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC...	36 X 36	9.00	1	---	---	---	1	1	
609'P+45 LT	122	---	PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC...	---	---	---	---	---	---	1	---	REMOVE SIGN ONLY
		---	NO PARKING ON RAMP	---	---	---	---	---	1	---	---	MOVE BOTTOM SIGN TO TOP OF EXISTING POST
			SOUTH			---	---	---	---	1		
612'N+05 LT	124	J2-2	27 (State Route Marker)			---	---	---	---	1		
			Directional Arrow (LEFT)	48 X 57	19.00	---		---	---	1		
			NORTH			---	2	---	---	1	2	
			27 (State Route Marker)			---	---	---	---	1		
			Directional Arrow (RIGHT)			---	---	---	---	1		
613+20 LT	126	W4-1	Merging Right	48 x 48	16.00	---	2	---	---	1	2	
614'N+97 RT	128	R5-1A	WRONG WAY	42 X 30	8.75	---	---	---	---	1	---	INSTALL SIGN ON SAME POSTS OPPOSITE SIGN NO. 130
614'N+97 RT	130	D1-2	Wis Vets Tribute (Left arrow)	66 X 24	11.00	---	2	---	---	1	2	
614'N+97 LT	132	R5-1A	WRONG WAY	42 X 30	8.75	---	---	---	---	1	---	INSTALL SIGN ON SAME POSTS OPPOSITE SIGN NO. 134
614'N+97 LT	134	D1-3	Augusta (Left arrow) Cadott Cornell (Right arrow)	66 X 36	16.50	---	2	---	---	1	2	
617'N+31 LT	136	W3-1	Stop Ahead symbol	48 x 48	16.00	---	2	---	---	1	1	
619+20 LT	138	E5-1A	EXIT 91 Right arrow	72 X 60	30.00	---	2	---	---	1	2	
619'N+53 LT	140	---	NO PARKING ON RAMP	---	---	1	---	---	1	---	1	
SHEET TOTALS					252.38	6	25	4	2	28	28	
												NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.
PERMANENT SIGNING ITEMS TOTALS:					572.31	22	48	10	2	79	66	

TRAFFIC CONTROL ITEMS

		643.0200	643.0300	643.0420	643.0705	643.0715	643.0800	643.0900	643.0905.S	646.0600	649.0400	649.0801	SPV.0045.01
		SURVEILLANCE AND MAINTENANCE	DRUMS	BARRICADES TYPE III	WARNING LIGHTS TYPE A	WARNING LIGHTS TYPE C	ARROW BOARDS	SIGNS	COVERING SIGNS	REMOVING PAVEMENT MARKINGS	TEMP. P/MT. MARKING REMOVABLE TAPE 4-INCH	TEMP. P/MT. MARKING REMOVABLE TAPE 8-INCH	PORTABLE CMS REMOTE CONTROL
STATION - STATION	STAGE/LOCATION	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	DAYS	EACH	LF	LF	LF	DAYS
289+80 - 443+71	STAGE 1 PASSING LANE WORK ZONE	25	6000	400	---	625	50	1275	1	250	800	---	25
135+89 - 289+80	STAGE 1A PASSING LANE WORK ZONE	25	4350	325	---	500	50	1025	---	---	800	---	25
289+80 - 443+71	STAGE 2 DRIVING LANE WORK ZONE	30	6150	480	---	630	60	1320	---	250	800	---	30
135+89 - 289+80	STAGE 2A DRIVING LANE WORK ZONE	25	3250	250	---	375	50	775	---	---	800	---	25
612'N+00 - 625'N+24	STH 27 OFF-RAMP	---	400	5	---	100	---	20	1	650	870	600	---
593'P+39 - 610'P+33	STH 27 ON-RAMP	---	335	5	---	100	---	20	---	550	680	400	---
422'F+55 - 436'F+62	CTH X OFF-RAMP & LANE CLOSURE	---	405	10	---	100	---	20	1	100	300	400	---
402'G+94 - 421'G+93	CTH X ON-RAMP & LANE CLOSURE	---	505	15	---	100	---	45	---	200	450	400	---
89'X+00 - 99'X+00	CTH X OVERPASS	---	50	---	---	---	---	10	---	---	---	---	---
	UNDISTRIBUTED	---	800	100	100	100	---	200	2	150	500	200	---
TOTALS:		105	22245	1590	100	2630	210	4710	5	2150	6000	2000	105

PROJECT NO: 1050-01-63	HWY: STH 29 WB	COUNTY: CHIPPEWA	MISCELLANEOUS QUANTITIES	SHEET	E
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PAVEMENT MARKING ITEMS

STATION - STATION	LOCATION	646.0106 4-INCH EPOXY		646.0126	646.0805.S	647.0566	647.0803
		(YELLOW)	(WHITE)	8-INCH EPOXY	OUTFALL	STOP LINE EPOXY	AERIAL ENFORC. BARS
		<u>LF</u>	<u>LF</u>	<u>LF</u>	<u>EACH</u>	<u>LF</u>	<u>LF</u>
409+24 - 416+32	STH 29 LT @ CTH X	---	---	708	---	---	---
409'G'+66 416'G'+70	CTH X ON-RAMP RT	---	---	704	---	---	---
416'G'+70 422'G'+00	CTH X ON-RAMP RT	530	---	---	---	---	---
410'G'+40 422'G'+00	CTH X ON-RAMP LT	---	1160	---	---	---	---
422'F'+72	CTH X OFF-RAMP RT	---	---	---	---	34	---
423'F'+26	CTH X OFF-RAMP LT	---	---	---	---	29	---
423'F'+31 - 423'F'+44	CTH X OFF-RAMP ISLAND	---	---	26	---	---	---
423'F'+50 - 431'F'+40	CTH X OFF-RAMP RT	790	---	---	---	---	---
422'F'+25 - 436'F'+62	CTH X OFF-RAMP LT	---	1437	---	---	---	---
431'F'+40 - 434'F'+90	CTH X OFF-RAMP RT	---	---	350	---	---	---
430+45 - 433+96	STH 29 LT @ CTH X	---	---	351	---	---	---
603'P'+84 - 610'P'+20	STH 27 ON-RAMP RT	636	---	---	---	---	---
595'P'+49 - 610'P'+20	STH 27 ON-RAMP LT	---	1471	---	---	---	---
598'P'+20 - 603'P'+84	STH 27 ON-RAMP RT	---	---	564	---	---	---
611'N'+22 - 619'N'+94	STH 27 OFF-RAMP RT	872	---	---	---	---	---
611'N'+29 - 625'N'+24	STH 27 OFF-RAMP LT	---	1395	---	---	---	---
619'N'+94 - 623'N'+35	STH 27 OFF-RAMP RT	---	---	341	---	---	---
611'N'+10	STH 27 OFF-RAMP RT	---	---	---	---	19	---
611'N'+10	STH 27 OFF-RAMP LT	---	---	---	---	29	---
611'N'+37 - 611'N'+82	STH 27 OFF-RAMP ISLAND	---	---	90	---	---	---
95'X'+00 - 99'X'+58	CTH X CENTERLINE (DOUBLE)	916	---	---	---	---	---
95'X'+00 - 95'X'+92	CTH X LT	---	92	---	---	---	---
97'X'+08 - 99'X'+58	CTH X LT	---	250	---	---	---	---
95'X'+00 - 95'X'+40	CTH X RT	---	40	---	---	---	---
96'X'+30 - 99'X'+58	CTH X RT	---	328	---	---	---	---
135+89 - 443+80	STH 29 RT EDGELINE	30791	---	---	---	---	---
135+89 - 443+80	STH 29 LT EDGELINE	---	30791	---	---	---	---
135+89 - 443+80	LANE LINE SKIPS	---	7698	---	---	---	---
433+83 - 435+69	EDGE EXTENSION SKIPS	---	37	---	---	---	---
623+56 - 625+46	EDGE EXTENSION SKIPS	---	38	---	---	---	---
UNDISTRIBUTED	STH 29	---	---	---	2	---	30 *
SUB-TOTALS:		34535	44737				
TOTALS:			79272	3134	2	111	30

*RE-MARK EXISTING AERIAL ENFORCEMENT BARS NEAR CTH K

DELINEATOR POSTS STEEL
DELINEATOR REFLECTORS

RAMP	LOCATION	633.0100	633.0500
		POSTS <u>EACH</u>	REFLECTORS <u>EACH</u>
CTH X ON-RAMP	RT & LT	9	9
CTH X OFF-RAMP	RT & LT	13	13
STH 27 ON-RAMP	RT & LT	10	10
STH 27 OFF-RAMP	RT & LT	9	9
TOTALS:		41	41

CONCRETE CURB AND GUTTER CURE AND SEAL TREATMENT

STATION - STATION	LOCATION	SPV.0090.02
		<u>LF</u>
609'P'+82 - 610'P'+18	RT, STH 27 ON-RAMP	47
609'P'+98 - 610'P'+18	LT, STH 27 ON-RAMP	63
610'N'+91 - 611'N'+36	LT, STH 27 OFF-RAMP	56
TOTAL:		166

CONSTRUCTION STAKING RESURFACING REFERENCE
CONSTRUCTION STAKING SUPPLEMENTAL CONTROL PROJECT 1050-01-63

STATION - STATION	LOCATION	650.8000	650.9910
		RESURFACING REFERENCE <u>LF</u>	SUPPLEMENTAL CONTROL <u>LS</u>
135+89 - 611+37	STH 29	47077	---
416'G'+88 - 421'G'+94	CTH X ON-RAMP	506	---
422'F'+56 - 430'F'+80	CTH X OFF-RAMP	824	---
603'P'+83 - 610'P'+33	STH 27 ON-RAMP	650	---
611'N'+05 - 619'N'+23	STH 27 OFF-RAMP	818	---
95'X'+10 - 98'X'+19	CTH X	309	---
	PROJECT	---	1
TOTALS:		50184	1

PREPARE FOUNDATION FOR ASPHALTIC PAVING SPECIAL

LOCATION	SPV.0105.01
PROJECT RAMPS	<u>LS</u>
	1
TOTAL:	<u>1</u>

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET
ARE ENGINEER ESTIMATE CATEGORY 0010,
UNLESS OTHERWISE NOTED.

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NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE
ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

CONCRETE PAVEMENT REPAIR ITEMS

* SUB-TOTAL ONLY - FOR ADDITIONAL ITEM QUANTITIES
SEE NEXT SHEET AND CONCRETE PAVEMENT REPLACEMENT SHEET

SPV.0035.01					
CONC. PAVEMENT REPAIR SPECIAL (DRIVING LANE)		416.0610 DRILLED TIE BARS	416.0620 DRILLED DOWELS	690.0150 SAWING ASPHALT	690.0250 SAWING CONCRETE
STATION	CY	EACH	EACH	LF	LF
136+05	2.7	1	20	6	34
136+22	2.7	1	20	6	34
136+41	2.7	1	20	6	34
137+30	2.7	1	20	6	34
138+02	2.7	1	20	6	34
138+40	2.7	1	20	6	34
138+77	2.7	1	20	6	34
138+94	2.7	1	20	6	34
139+14	2.7	1	20	6	34
139+32	2.7	1	20	6	34
139+49	2.7	1	20	6	34
139+85	2.7	1	20	6	34
140+22	2.7	1	20	6	34
144+67	2.7	1	20	6	34
144+96	2.7	1	20	6	34
146+22	2.7	1	20	6	34
146+79	2.7	1	20	6	34
148+38	2.7	1	20	6	34
148+58	2.7	1	20	6	34
147+51	2.7	1	20	6	34
149+84	2.7	1	20	6	34
150+03	2.7	1	20	6	34
150+59	2.7	1	20	6	34
150+76	2.7	1	20	6	34
151+47	2.7	1	20	6	34
151+84	2.7	1	20	6	34
151+89	2.7	1	20	6	34
152+01	2.7	1	20	6	34
153+14	2.7	1	20	6	34
153+48	2.7	1	20	6	34
153+69	2.7	1	20	6	34
153+85	2.7	1	20	6	34
154+01	2.7	1	20	6	34
154+55	2.7	1	20	6	34
157+23	2.7	1	20	6	34
157+44	2.7	1	20	6	34
158+69	2.7	1	20	6	34
159+93	2.7	1	20	6	34
160+82	2.7	1	20	6	34
161+00	2.7	1	20	6	34
161+39	2.7	1	20	6	34
161+55	2.7	1	20	6	34
162+66	2.7	1	20	6	34
163+37	5.7	4	20	13	41
164+30	2.7	1	20	6	34
165+55	2.7	1	20	6	34
166+45	2.7	1	20	6	34
166+99	2.7	1	20	6	34
168+72	2.7	1	20	6	34
169+00	2.7	1	20	6	34
169+27	2.7	1	20	6	34
169+63	2.7	1	20	6	34
169+82	5.3	4	20	12	40
171+20	2.7	1	20	6	34
171+39	2.7	1	20	6	34
171+94	2.7	1	20	6	34
172+31	2.7	1	20	6	34
172+48	2.7	1	20	6	34
172+68	2.7	1	20	6	34

SUB-TOTALS: 165.6 * 65 * 1180 * 367 * 2019

SPV.0035.01					
CONC. PAVEMENT REPAIR SPECIAL (DRIVING LANE)		416.0610 DRILLED TIE BARS	416.0620 DRILLED DOWELS	690.0150 SAWING ASPHALT	690.0250 SAWING CONCRETE
STATION	CY	EACH	EACH	LF	LF
175+93	2.7	1	20	6	34
178+49	2.7	1	20	6	34
179+38	2.7	1	20	6	34
179+57	2.7	1	20	6	34
180+11	2.7	1	20	6	34
181+01	2.7	1	20	6	34
181+27	2.7	1	20	6	34
181+74	2.7	1	20	6	34
182+72	2.7	1	20	6	34
182+81	4.0	3	20	9	37
183+01	2.7	1	20	6	34
183+55	2.7	1	20	6	34
183+92	2.7	1	20	6	34
184+47	2.7	1	20	6	34
186+49	2.7	1	20	6	34
187+60	2.7	1	20	6	34
187+92	5.7	4	20	13	41
188+22	2.7	1	20	6	34
188+57	2.7	1	20	6	34
189+03	2.7	1	20	6	34
189+41	2.7	1	20	6	34
189+62	2.7	1	20	6	34
189+82	2.7	1	20	6	34
190+16	2.7	1	20	6	34
190+89	2.7	1	20	6	34
191+60	2.7	1	20	6	34
192+32	2.7	1	20	6	34
193+07	2.7	1	20	6	34
193+79	2.7	1	20	6	34
194+16	2.7	1	20	6	34
194+88	3.6	2	20	8	36
195+06	2.7	1	20	6	34
195+63	2.7	1	20	6	34
195+77	2.7	1	20	6	34
195+99	2.7	1	20	6	34
196+35	2.7	1	20	6	34
196+95	2.7	1	20	6	34
197+10	2.7	1	20	6	34
197+60	2.7	1	20	6	34
197+79	2.7	1	20	6	34
198+71	2.7	1	20	6	34
199+07	2.7	1	20	6	34
199+24	2.7	1	20	6	34
199+96	2.7	1	20	6	34
200+34	2.7	1	20	6	34
200+71	2.7	1	20	6	34
201+51	2.7	1	20	6	34
201+79	2.7	1	20	6	34
202+78	2.7	1	20	6	34
202+91	2.7	1	20	6	34
203+14	2.7	1	20	6	34
203+99	2.7	1	20	6	34
204+19	2.7	1	20	6	34
204+71	2.7	1	20	6	34
205+09	2.7	1	20	6	34
205+45	2.7	1	20	6	34
206+41	5.3	4	20	12	40
207+42	2.7	1	20	6	34
207+62	2.7	1	20	6	34

SUB-TOTALS: 167.7 * 68 * 1180 * 372 * 2024

SPV.0035.01					
CONC. PAVEMENT REPAIR SPECIAL (DRIVING LANE)		416.0610 DRILLED TIE BARS	416.0620 DRILLED DOWELS	690.0150 SAWING ASPHALT	690.0250 SAWING CONCRETE
STATION	CY	EACH	EACH	LF	LF
208+44	2.7	1	20	6	34
208+62	2.7	1	20	6	34
208+98	2.7	1	20	6	34
209+55	2.7	1	20	6	34
209+72	2.7	1	20	6	34
211+93	2.7	1	20	6	34
214+87	2.7	1	20	6	34
217+05	2.7	1	20	6	34
217+40	2.7	1	20	6	34
217+78	2.7	1	20	6	34
218+88	2.7	1	20	6	34
219+27	2.7	1	20	6	34
219+49	6.2	5	20	14	42
220+00	2.7	1	20	6	34
220+17	2.7	1	20	6	34
221+50	2.7	1	20	6	34
221+83	2.7	1	20	6	34
224+04	2.7	1	20	6	34
224+44	2.7	1	20	6	34
224+80	2.7	1	20	6	34
224+99	2.7	1	20	6	34
225+18	2.7	1	20	6	34
225+35	2.7	1	20	6	34
225+53	2.7	1	20	6	34
225+73	2.7	1	20	6	34
225+90	2.7	1	20	6	34
226+29	2.7	1	20	6	34
226+66	2.7	1	20	6	34
226+85	2.7	1	20	6	34
227+02	2.7	1	20	6	34
228+68	2.7	1	20	6	34
229+21	2.7	1	20	6	34
229+62	2.7	1	20	6	34
229+97	2.7	1	20	6	34
230+43	2.7	1	20	6	34
232+19	2.7	1	20	6	34
232+93	2.7	1	20	6	34
233+11	2.7	1	20	6	34
233+84	2.7	1	20	6	34
234+05	2.7	1	20	6	34
234+24	2.7	1	20	6	34
236+06	2.7	1	20	6	34
236+26	2.7	1	20	6	34
239+05	2.7	1	20	6	34
239+42	2.7	1	20	6	34
239+57	2.7	1	20	6	34
239+96	2.7	1	20	6	34
241+22	2.7	1	20	6	34
241+43	2.7	1	20	6	34
241+97	2.7	1	20	6	34
242+16	2.7	1	20	6	34
242+52	2.7	1	20	6	34
242+91	2.7	1	20	6	34
243+65	2.7	1	20	6	34
244+73	2.7	1	20	6	34
244+92	2.7	1	20	6	34
245+50	2.7	1	20	6	34
245+86	2.7	1	20	6	34
246+41	2.7	1	20	6	34

SUB-TOTALS: 163.4 * 63 * 1180 * 362 * 2014

PROJECT NO: 1050-01-63

HWY: STH 29 WB

COUNTY: CHIPPEWA

MISCELLANEOUS QUANTITIES

SHEET

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NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE
ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

CONCRETE PAVEMENT REPAIR ITEMS

* SUB-TOTAL ONLY - FOR ADDITIONAL ITEM QUANTITIES
SEE NEXT SHEET AND CONCRETE PAVEMENT REPLACEMENT SHEET

SPV.0035.01					
CONC. PAVEMENT REPAIR SPECIAL (DRIVING LANE)		416.0610	416.0620	690.0150	690.0250
		DRILLED TIE BARS	DRILLED DOWELS	SAWING ASPHALT	SAWING CONCRETE
STATION	CY	EACH	EACH	LF	LF
247+16	2.7	1	20	6	34
248+43	2.7	1	20	6	34
248+82	2.7	1	20	6	34
249+18	2.7	1	20	6	34
250+30	2.7	1	20	6	34
250+68	2.7	1	20	6	34
251+04	2.7	1	20	6	34
251+23	2.7	1	20	6	34
251+78	2.7	1	20	6	34
252+17	2.7	1	20	6	34
252+30	2.7	1	20	6	34
252+53	2.7	1	20	6	34
253+27	2.7	1	20	6	34
253+59	2.7	1	20	6	34
253+98	2.7	1	20	6	34
254+37	2.7	1	20	6	34
254+73	2.7	1	20	6	34
255+28	2.7	1	20	6	34
256+22	2.7	1	20	6	34
256+57	2.7	1	20	6	34
256+97	2.7	1	20	6	34
257+31	2.7	1	20	6	34
258+05	2.7	1	20	6	34
258+62	2.7	1	20	6	34
259+53	2.7	1	20	6	34
259+71	2.7	1	20	6	34
259+90	2.7	1	20	6	34
261+95	2.7	1	20	6	34
262+49	2.7	1	20	6	34
264+17	2.7	1	20	6	34
265+07	2.7	1	20	6	34
265+25	2.7	1	20	6	34
265+62	2.7	1	20	6	34
266+94	2.7	1	20	6	34
267+13	2.7	1	20	6	34
267+68	2.7	1	20	6	34
267+90	2.7	1	20	6	34
269+34	2.7	1	20	6	34
270+04	4.9	3	20	11	39
270+66	2.7	1	20	6	34
270+85	2.7	1	20	6	34
271+38	2.7	1	20	6	34
272+31	2.7	1	20	6	34
274+32	2.7	1	20	6	34
274+89	2.7	1	20	6	34
276+33	2.7	1	20	6	34
277+46	2.7	1	20	6	34
277+66	2.7	1	20	6	34
279+13	4.0	3	20	9	37
279+32	2.7	1	20	6	34
279+71	2.7	1	20	6	34
280+26	2.7	1	20	6	34
280+44	2.7	1	20	6	34
283+40	2.7	1	20	6	34
283+84	2.7	1	20	6	34
285+22	2.7	1	20	6	34
286+05	2.7	1	20	6	34
286+17	2.7	1	20	6	34
287+10	2.7	1	20	6	34
288+51	2.7	1	20	6	34

SUB-TOTALS: 166.1 * 64 * 1200 * 368 * 2048

SPV.0035.01					
CONC. PAVEMENT REPAIR SPECIAL (DRIVING LANE)		416.0610	416.0620	690.0150	690.0250
		DRILLED TIE BARS	DRILLED DOWELS	SAWING ASPHALT	SAWING CONCRETE
STATION	CY	EACH	EACH	LF	LF
289+13	2.7	1	20	6	34
289+27	2.7	1	20	6	34
291+72	2.7	1	20	6	34
292+30	5.3	4	20	12	40
292+45	2.7	1	20	6	34
293+73	2.7	1	20	6	34
294+49	2.7	1	20	6	34
295+04	2.7	1	20	6	34
295+59	2.7	1	20	6	34
296+33	2.7	1	20	6	34
296+72	2.7	1	20	6	34
298+39	2.7	1	20	6	34
298+61	2.7	1	20	6	34
298+84	5.7	4	20	13	41
300+69	2.7	1	20	6	34
301+62	2.7	1	20	6	34
302+01	2.7	1	20	6	34
302+19	2.7	1	20	6	34
304+59	2.7	1	20	6	34
304+95	2.7	1	20	6	34
305+12	6.2	5	20	14	42
305+33	2.7	1	20	6	34
305+70	2.7	1	20	6	34
306+82	2.7	1	20	6	34
307+00	2.7	1	20	6	34
308+84	2.7	1	20	6	34
309+76	2.7	1	20	6	34
310+14	2.7	1	20	6	34
310+70	2.7	1	20	6	34
311+07	2.7	1	20	6	34
311+43	2.7	1	20	6	34
311+64	2.7	1	20	6	34
314+23	2.7	1	20	6	34
314+75	2.7	1	20	6	34
314+83	5.7	4	20	13	41
315+14	2.7	1	20	6	34
315+88	2.7	1	20	6	34
316+61	2.7	1	20	6	34
319+17	2.7	1	20	6	34
321+24	2.7	1	20	6	34
322+02	2.7	1	20	6	34
322+96	2.7	1	20	6	34
323+42	2.7	1	20	6	34
325+30	2.7	1	20	6	34
326+94	2.7	1	20	6	34
327+31	2.7	1	20	6	34
327+70	2.7	1	20	6	34
327+89	2.7	1	20	6	34
331+41	2.7	1	20	6	34
331+58	2.7	1	20	6	34
332+70	2.7	1	20	6	34
333+26	2.7	1	20	6	34
333+62	2.7	1	20	6	34
334+23	2.7	1	20	6	34
335+47	2.7	1	20	6	34
338+43	5.3	4	20	12	40
343+55	2.7	1	20	6	34
343+73	2.7	1	20	6	34
344+98	2.7	1	20	6	34

SUB-TOTALS: 174.6 * 75 * 1180 * 388 * 2040

SPV.0035.01					
CONC. PAVEMENT REPAIR SPECIAL (DRIVING LANE)		416.0610	416.0620	690.0150	690.0250
		DRILLED TIE BARS	DRILLED DOWELS	SAWING ASPHALT	SAWING CONCRETE
STATION	CY	EACH	EACH	LF	LF
345+87	2.7	1	20	6	34
347+75	2.7	1	20	6	34
348+23	4.0	3	20	9	37
348+90	2.7	1	20	6	34
349+65	2.7	1	20	6	34
352+66	2.7	1	20	6	34
353+24	2.7	1	20	6	34
355+49	2.7	1	20	6	34
355+88	2.7	1	20	6	34
358+55	2.7	1	20	6	34
359+50	2.7	1	20	6	34
359+72	2.7	1	20	6	34
360+45	2.7	1	20	6	34
361+61	2.7	1	20	6	34
362+36	2.7	1	20	6	34
362+55	2.7	1	20	6	34
363+13	2.7	1	20	6	34
363+30	2.7	1	20	6	34
363+53	2.7	1	20	6	34
363+90	2.7	1	20	6	34
366+18	2.7	1	20	6	34
366+96	2.7	1	20	6	34
367+34	2.7	1	20	6	34
367+72	2.7	1	20	6	34
368+10	2.7	1	20	6	34
368+58	2.7	1	20	6	34
369+29	2.7	1	20	6	34
370+62	2.7	1	20	6	34
371+87	2.7	1	20	6	34
372+41	2.7	1	20	6	34
373+07	3.1	2	20	7	35
373+40	2.7	1	20	6	34
375+92	2.7	1	20	6	34
376+04	2.7	1	20	6	34
377+22	2.7	1	20	6	34
378+25	2.7	1	20	6	34
378+35	2.7	1	20	6	34
379+02	2.7	1	20	6	34
379+41	2.7	1	20	6	34
380+17	2.7	1	20	6	34
381+69	2.7	1	20	6	34
382+34	2.7	1	20	6	34
382+45	4.9	3	20	11	39
383+86	2.7	1	20	6	34
384+02	2.7	1	20	6	34
384+33	2.7	1	20	6	34
384+53	2.7	1	20	6	34
385+76	2.7	1	20	6	34
386+11	2.7	1	20	6	34
386+48	2.7	1	20	6	34
388+81	2.7	1	20	6	34
391+11	2.7	1	20	6	34
391+47	2.7	1	20	6	34
393+38	2.7	1	20	6	34
394+15	2.7	1	20	6	34
398+96	2.7	1	20	6	34
399+71	2.7	1	20	6	34
400+18	2.7	1	20	6	34
400+84	2.7	1	20	6	34

SUB-TOTALS: 163.8 * 64 * 1180 * 363 * 2015

PROJECT NO: 1050-01-63

HWY: STH 29 WB

COUNTY: CHIPPEWA

MISCELLANEOUS QUANTITIES

SHEET

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NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE
ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

CONCRETE PAVEMENT REPAIR ITEMS

* SUB-TOTAL ONLY - FOR ADDITIONAL ITEM QUANTITIES
SEE NEXT SHEET AND CONCRETE PAVEMENT REPLACEMENT SHEET

SPV.0035.01					
CONC. PAVEMENT REPAIR SPECIAL (DRIVING LANE)		416.0610	416.0620	690.0150	690.0250
		DRILLED TIE BARS	DRILLED DOWELS	SAWING ASPHALT	SAWING CONCRETE
STATION	CY	EACH	EACH	LF	LF
402+00	2.7	1	20	6	34
402+65	2.7	1	20	6	34
402+79	2.7	1	20	6	34
405+00	2.7	1	20	6	34
405+88	4.4	3	20	10	38
407+64	2.7	1	20	6	34
408+14	2.7	1	20	6	34
408+53	2.7	1	20	6	34
410+53	2.7	1	20	6	34
411+25	2.7	1	20	6	34
412+45	2.7	1	20	6	34
412+99	2.7	1	20	6	34
414+25	2.7	1	20	6	34
415+01	2.7	1	20	6	34
415+78	2.7	1	20	6	34
416+54	2.7	1	20	6	34
417+56	2.7	1	20	6	34
420+84	2.7	1	20	6	34
421+60	5.3	4	20	12	40
424+24	2.7	1	20	6	34
425+65	2.7	1	20	6	34
427+11	2.7	1	20	6	34
427+67	2.7	1	20	6	34
429+01	2.7	1	20	6	34
429+57	2.7	1	20	6	34
434+32	2.7	1	20	6	34
435+20	2.7	1	20	6	34
435+96	2.7	1	20	6	34
440+07	2.7	1	20	6	34
441+03	2.7	1	20	6	34
441+79	2.7	1	20	6	34
441+98	2.7	1	20	6	34
442+56	2.7	1	20	6	34
443+71	2.7	1	20	6	34
SUB-TOTALS:	96.5	* 39	* 680	* 214	* 1166
UNDISTRIBUT.	110	44	770	240	1322
TOTALS FOR DRIVING LANE	1208	* 482	* 8550	* 2674	* 14648

SPV.0035.01					
CONC. PAVEMENT REPAIR SPECIAL (PASSING LANE)		416.0610	416.0620	690.0150	690.0250
		DRILLED TIE BARS	DRILLED DOWELS	SAWING ASPHALT	SAWING CONCRETE
STATION	CY	EACH	EACH	LF	LF
136+07	2.3	1	16	6	30
136+23	2.3	1	16	6	30
136+42	2.3	1	16	6	30
138+05	2.3	1	16	6	30
138+40	2.3	1	16	6	30
138+71	2.3	1	16	6	30
139+80	2.3	1	16	6	30
140+22	2.3	1	16	6	30
140+89	2.3	1	16	6	30
143+50	2.3	1	16	6	30
144+25	2.3	1	16	6	30
147+52	2.3	1	16	6	30
148+34	2.3	1	16	6	30
148+58	2.3	1	16	6	30
150+75	2.3	1	16	6	30
151+47	2.3	1	16	6	30
151+87	2.3	1	16	6	30
152+23	2.3	1	16	6	30
153+43	2.3	1	16	6	30
154+53	2.3	1	16	6	30
156+92	2.3	1	16	6	30
159+58	2.3	1	16	6	30
164+29	2.3	1	16	6	30
166+46	2.3	1	16	6	30
169+01	2.3	1	16	6	30
171+20	2.3	1	16	6	30
171+94	2.3	1	16	6	30
173+33	2.3	1	16	6	30
173+78	2.3	1	16	6	30
174+97	2.3	1	16	6	30
180+12	2.3	1	16	6	30
180+68	2.3	1	16	6	30
181+78	2.3	1	16	6	30
183+58	2.3	1	16	6	30
183+94	2.3	1	16	6	30
184+45	2.3	1	16	6	30
187+60	2.3	1	16	6	30
190+18	2.3	1	16	6	30
194+91	2.3	1	16	6	30
195+62	2.3	1	16	6	30
200+35	2.3	1	16	6	30
202+93	2.3	1	16	6	30
203+98	2.3	1	16	6	30
205+79	2.3	1	16	6	30
214+13	2.3	1	16	6	30
215+22	2.3	1	16	6	30
222+89	2.3	1	16	6	30
225+19	2.3	1	16	6	30
225+35	2.3	1	16	6	30
225+55	2.3	1	16	6	30
226+28	2.3	1	16	6	30
227+77	2.3	1	16	6	30
228+69	2.3	1	16	6	30
229+62	2.3	1	16	6	30
230+53	2.3	1	16	6	30
231+11	2.3	1	16	6	30
231+47	2.3	1	16	6	30
231+65	2.3	1	16	6	30
231+77	2.3	1	16	6	30
232+19	2.3	1	16	6	30
232+92	2.3	1	16	6	30
SUB-TOTALS:	141.8	* 61	* 976	* 366	* 1830

SPV.0035.01					
CONC. PAVEMENT REPAIR SPECIAL (PASSING LANE)		416.0610	416.0620	690.0150	690.0250
		DRILLED TIE BARS	DRILLED DOWELS	SAWING ASPHALT	SAWING CONCRETE
STATION	CY	EACH	EACH	LF	LF
233+14	2.3	1	16	6	30
233+32	2.3	1	16	6	30
233+84	2.3	1	16	6	30
234+23	2.3	1	16	6	30
234+41	2.3	1	16	6	30
234+80	2.3	1	16	6	30
235+16	2.3	1	16	6	30
236+27	2.3	1	16	6	30
238+48	2.3	1	16	6	30
240+14	2.3	1	16	6	30
242+16	2.3	1	16	6	30
242+52	2.3	1	16	6	30
244+38	2.3	1	16	6	30
245+86	2.3	1	16	6	30
247+38	2.3	1	16	6	30
247+51	2.3	1	16	6	30
248+46	2.3	1	16	6	30
248+83	2.3	1	16	6	30
249+37	2.3	1	16	6	30
251+04	2.3	1	16	6	30
251+25	3.4	3	16	9	33
251+40	2.3	1	16	6	30
251+62	2.3	1	16	6	30
254+36	2.3	1	16	6	30
256+96	2.3	1	16	6	30
257+31	2.3	1	16	6	30
259+55	2.3	1	16	6	30
260+97	2.3	1	16	6	30
261+95	2.3	1	16	6	30
263+23	2.3	1	16	6	30
263+42	2.3	1	16	6	30
264+90	2.3	1	16	6	30
266+01	2.3	1	16	6	30
266+19	2.3	1	16	6	30
266+31	2.3	1	16	6	30
266+95	2.3	1	16	6	30
267+13	2.3	1	16	6	30
267+66	2.3	1	16	6	30
267+90	2.3	1	16	6	30
269+19	2.3	1	16	6	30
270+11	2.3	1	16	6	30
270+65	2.3	1	16	6	30
270+80	2.3	1	16	6	30
271+01	2.3	1	16	6	30
271+40	2.3	1	16	6	30
271+76	2.3	1	16	6	30
272+31	2.3	1	16	6	30
273+97	2.3	1	16	6	30
274+88	2.3	1	16	6	30
278+71	2.3	1	16	6	30
279+33	2.3	1	16	6	30
279+91	2.3	1	16	6	30
280+03	2.3	1	16	6	30
281+93	2.3	1	16	6	30
282+13	3.8	3	16	10	34
282+70	2.3	1	16	6	30
284+13	2.3	1	16	6	30
284+52	2.3	1	16	6	30
285+25	2.3	1	16	6	30
285+41	2.3	1	16	6	30
287+12	2.3	1	16	6	30
SUB-TOTALS:	144.3	* 65	* 976	* 373	* 1837

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PROJECT NO: 1050-01-63

HWY: STH 29 WB

COUNTY: CHIPPEWA

MISCELLANEOUS QUANTITIES

SHEET

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NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE
ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

CONCRETE PAVEMENT REPAIR ITEMS

* SUB-TOTAL ONLY - FOR ADDITIONAL ITEM QUANTITIES
SEE CONCRETE PAVEMENT REPLACEMENT SHEETS

SPV.0035.01					
CONC. PAVEMENT REPAIR SPECIAL (PASSING LANE)					
STATION	CY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWELS EACH	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
287+24	2.3	1	16	6	30
291+02	2.3	1	16	6	30
291+08	4.5	4	16	12	36
293+75	2.3	1	16	6	30
294+14	2.3	1	16	6	30
297+38	2.3	1	16	6	30
298+84	2.3	1	16	6	30
305+16	2.3	1	16	6	30
305+44	2.3	1	16	6	30
305+59	3.4	3	16	9	33
306+80	2.3	1	16	6	30
322+03	2.3	1	16	6	30
323+20	2.3	1	16	6	30
323+42	2.3	1	16	6	30
323+94	2.3	1	16	6	30
324+11	2.3	1	16	6	30
324+69	2.3	1	16	6	30
325+22	2.3	1	16	6	30
326+91	2.3	1	16	6	30
327+53	2.3	1	16	6	30
327+64	2.3	1	16	6	30
328+75	2.3	1	16	6	30
331+97	2.3	1	16	6	30
342+01	2.3	1	16	6	30
343+09	2.7	2	16	7	31
343+60	2.3	1	16	6	30
345+87	2.3	1	16	6	30
347+74	2.3	1	16	6	30
349+66	2.3	1	16	6	30
352+64	2.3	1	16	6	30
353+25	2.3	1	16	6	30
355+87	2.3	1	16	6	30
359+53	2.3	1	16	6	30
360+36	3.4	3	16	9	33
362+76	2.3	1	16	6	30
363+54	2.3	1	16	6	30
363+90	2.3	1	16	6	30
364+64	2.3	1	16	6	30
365+83	2.3	1	16	6	30
368+11	2.3	1	16	6	30
368+86	2.3	1	16	6	30
370+61	2.3	1	16	6	30
372+33	3.4	3	16	9	33
373+21	2.3	1	16	6	30
375+88	3.8	3	16	10	34
376+06	2.3	1	16	6	30
376+23	2.3	1	16	6	30
377+81	2.3	1	16	6	30
379+42	2.3	1	16	6	30
381+60	3.4	3	16	9	33
383+21	2.3	1	16	6	30
384+01	2.3	1	16	6	30
385+76	2.3	1	16	6	30
386+04	3.1	2	16	8	32
386+50	2.3	1	16	6	30
388+05	2.3	1	16	6	30
388+80	2.3	1	16	6	30
391+09	2.3	1	16	6	30

SUB-TOTALS: 144.0 * 73 * 928 * 373 * 1765

SPV.0035.01					
CONC. PAVEMENT REPAIR SPECIAL (PASSING LANE)					
STATION	CY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWELS EACH	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
391+46	2.3	1	16	6	30
392+22	2.3	1	16	6	30
393+36	2.3	1	16	6	30
394+15	2.3	1	16	6	30
397+41	2.3	1	16	6	30
400+84	2.3	1	16	6	30
402+03	2.3	1	16	6	30
402+78	2.3	1	16	6	30
403+56	2.3	1	16	6	30
405+87	2.3	1	16	6	30
408+52	2.3	1	16	6	30
410+48	2.3	1	16	6	30
411+25	2.3	1	16	6	30
414+26	2.3	1	16	6	30
415+02	2.3	1	16	6	30
424+24	2.3	1	16	6	30
438+59	2.3	1	16	6	30

SUB-TOTALS: 39.5 * 17 * 272 * 102 * 510

UNDISTRIBUT. 48 22 324 124 608

TOTALS FOR PASSING LANE 518 * 238 * 3476 * 1338 * 6550

TOTALS FOR DRIVING LANE 1208 * 482 * 8550 * 2674 * 14648

ITEM TOTAL - CONCRETE PAVEMENT REPAIR SPECIAL 1726 * 720 * 12026 * 4012 * 21198

3

CONCRETE PAVEMENT REPLACEMENT ITEMS

				204.0100	416.0610	416.0620	690.0150	690.0250	SPV.0180.01
				REMOVING	DRILLED	DRILLED	SAWING	SAWING	DOWELED
				PAVEMENT	TIE BARS	DOWEL BARS	ASPHALT	CONCRETE	CONCRETE
STATION	TO	STATION	LANE	SY	EACH	EACH	LF	LF	PAVEMENT
									10-INCH
									SY
146+30	-	146+49	DRIVING	29	7	20	21	47	29
152+17	-	152+96	DRIVING	123	31	20	81	107	123
159+44	-	159+66	DRIVING	34	8	20	24	50	34
163+32	-	163+55	PASSING	31	1	16	25	47	31
174+25	-	174+50	DRIVING	39	8	20	27	53	39
175+70	-	176+07	PASSING	49	13	16	39	61	49
185+49	-	185+70	PASSING	28	7	16	23	45	28
203+56	-	203+72	DRIVING	25	4	20	20	44	25
214+13	-	214+38	DRIVING	39	9	20	27	53	39
220+52	-	221+18	DRIVING	104	26	20	68	94	104
222+02	-	222+23	DRIVING	32	8	20	23	49	32
223+89	-	225+90	DRIVING	313	80	20	203	229	313
227+64	-	227+94	DRIVING	46	11	20	32	58	46
231+10	-	231+82	DRIVING	112	28	20	74	100	112
234+67	-	235+18	DRIVING	79	20	20	53	79	79
235+41	-	235+97	DRIVING	87	22	20	58	84	87
237+36	-	237+58	DRIVING	33	8	20	23	49	33
238+36	-	238+74	DRIVING	59	15	20	40	66	59
240+13	-	240+30	DRIVING	26	6	20	18	44	26
244+28	-	244+64	DRIVING	57	14	20	39	65	57
247+31	-	247+59	DRIVING	43	10	20	29	55	43
252+14	-	252+30	PASSING	21	5	16	18	40	21
258+14	-	258+45	DRIVING	47	11	20	32	58	47
262+58	-	264+00	DRIVING	220	56	20	144	170	220
263+90	-	264+18	PASSING	36	6	16	29	51	36
264+24	-	264+87	DRIVING	99	25	20	66	92	99
265+89	-	266+74	DRIVING	132	33	20	87	113	132
271+58	-	272+16	DRIVING	91	23	20	61	87	91
273+86	-	274+19	DRIVING	51	13	20	35	61	51
276+83	-	277+37	DRIVING	84	21	20	56	82	84
278+46	-	279+05	DRIVING	92	23	20	61	87	92
279+88	-	280+16	DRIVING	43	10	20	29	55	43
281+04	-	281+62	DRIVING	90	23	20	60	86	90
281+15	-	281+68	PASSING	70	2	16	54	76	70
281+89	-	282+53	DRIVING	100	25	20	66	92	100
284+84	-	285+05	DRIVING	32	8	20	22	48	32
285+32	-	285+70	DRIVING	60	15	20	40	66	60
285+90	-	286+19	PASSING	39	10	16	31	53	39
289+04	-	289+35	PASSING	40	11	16	32	54	40
290+33	-	290+56	PASSING	30	7	16	24	46	30
295+96	-	296+16	PASSING	27	7	16	22	44	27
334+33	-	334+51	BOTH	52	7	36	40	70	52
338+43	-	338+59	PASSING	22	2	16	18	40	22
342+71	-	342+99	PASSING	37	---	16	30	52	37
342+69	-	343+26	DRIVING	89	22	20	59	85	89
354+32	-	354+63	DRIVING	49	12	20	33	59	49
395+16	-	395+65	DRIVING	76	19	20	51	77	76
397+37	-	397+60	DRIVING	36	9	20	25	51	36
397+63	-	397+81	PASSING	25	---	16	21	43	25
397+60	-	397+90	DRIVING	46	9	20	32	58	46
403+02	-	403+81	DRIVING	122	31	20	80	106	122
407+08	-	407+47	DRIVING	61	15	20	41	67	61
409+01	-	409+44	PASSING	57	16	16	45	67	57
411+49	-	411+87	DRIVING	59	15	20	40	66	59
429+90	-	430+07	DRIVING	26	6	20	19	45	26
436+52	-	436+87	DRIVING	55	14	20	38	64	55
UNDISTRIBUTED		BOTH		300	38	40	232	425	300
TOTALS:				3905	* 885	* 1120	* 2723	* 4318	3905

DRILLED TIE BARS (SUMMARY)

	416.0610
LOCATION	EACH
CONCRETE PAVEMENT REPAIR	720
CONCRETE PAVEMENT REPLACEMENT	885
CONCRETE PAVEMENT REPAIR SHES	---
TOTAL:	1605

DRILLED DOWEL BARS (SUMMARY)

	416.0620
LOCATION	EACH
CONCRETE PAVEMENT REPAIR	12026
CONCRETE PAVEMENT REPLACEMENT	1120
CONCRETE PAVEMENT REPAIR SHES	264
TOTAL:	13410

SAWING ASPHALT (SUMMARY)

		690.0150
<u>STATION</u>	<u>LOCATION</u>	<u>LF</u>
416'G'+88	CTH X ON-RAMP	24
430'F'+77	CTH X OFF-RAMP	24
603'P'+83	STH 27 ON-RAMP	24
610'P'+33	STH 27 ON-RAMP	101
611'N'+05	STH 27 OFF-RAMP	97
619'N'+23	STH 27 OFF-RAMP	24
95'X'+10	CTH X WEST	41
CONCRETE PAVEMENT REPAIR		4012
CONCRETE PAVEMENT REPLACEMENT		2723
UNDISTRIBUTED		125
TOTAL:		7195

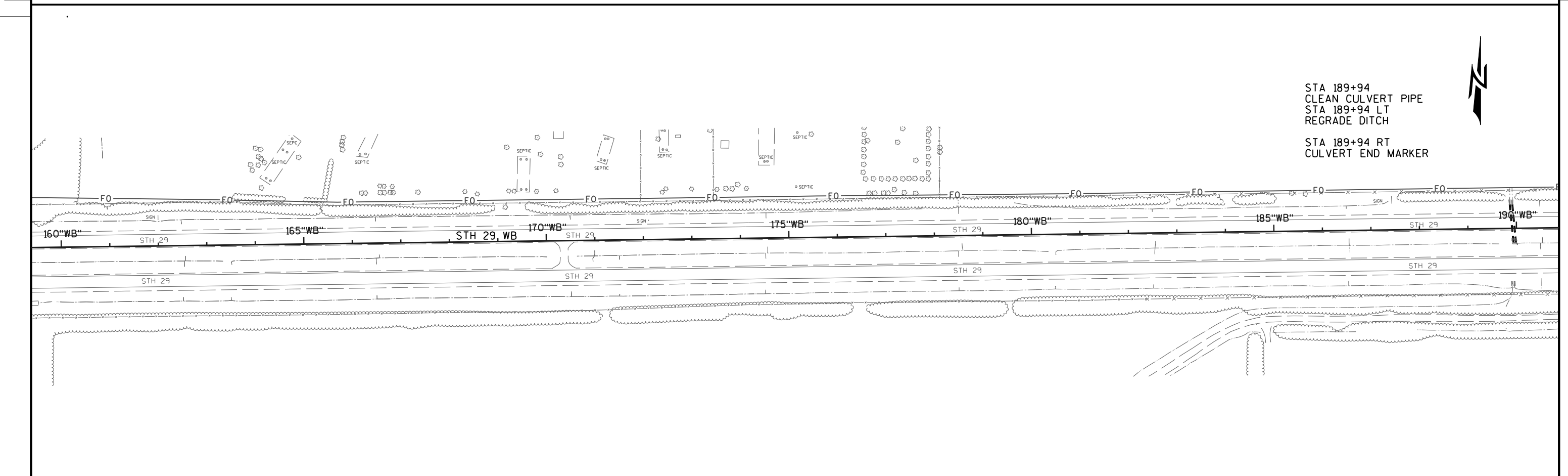
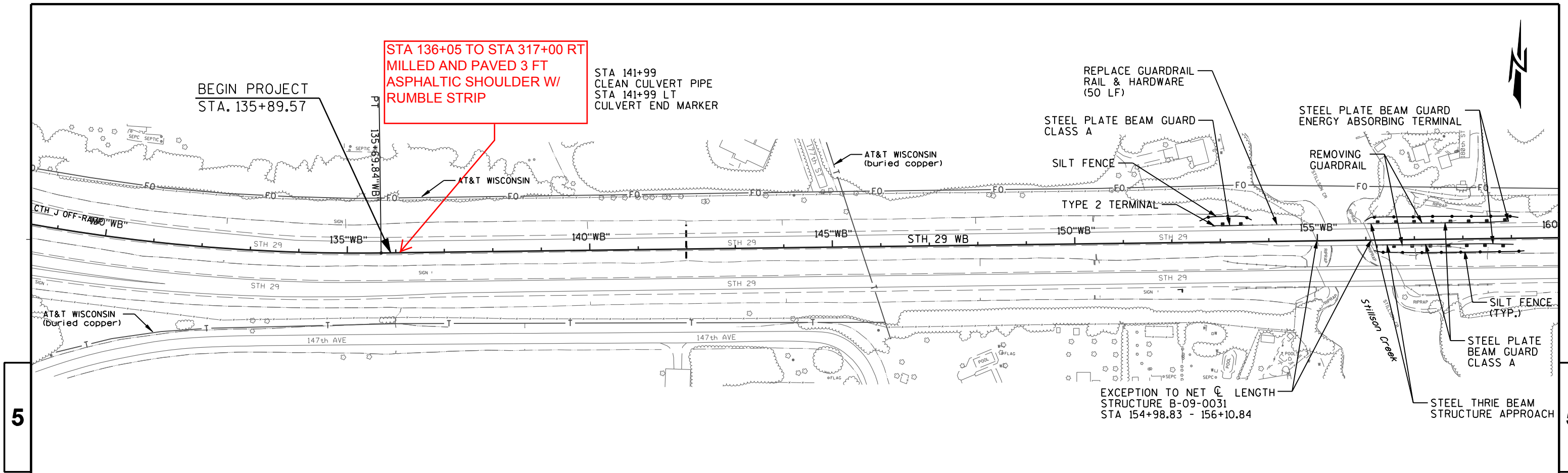
SAWING CONCRETE (SUMMARY)

	690.0250
LOCATION	LF
CONCRETE PAVEMENT SHES	441
CONCRETE PAVEMENT REPAIR	21198
CONCRETE PAVEMENT REPLACEMENT	4318
TOTAL:	25957

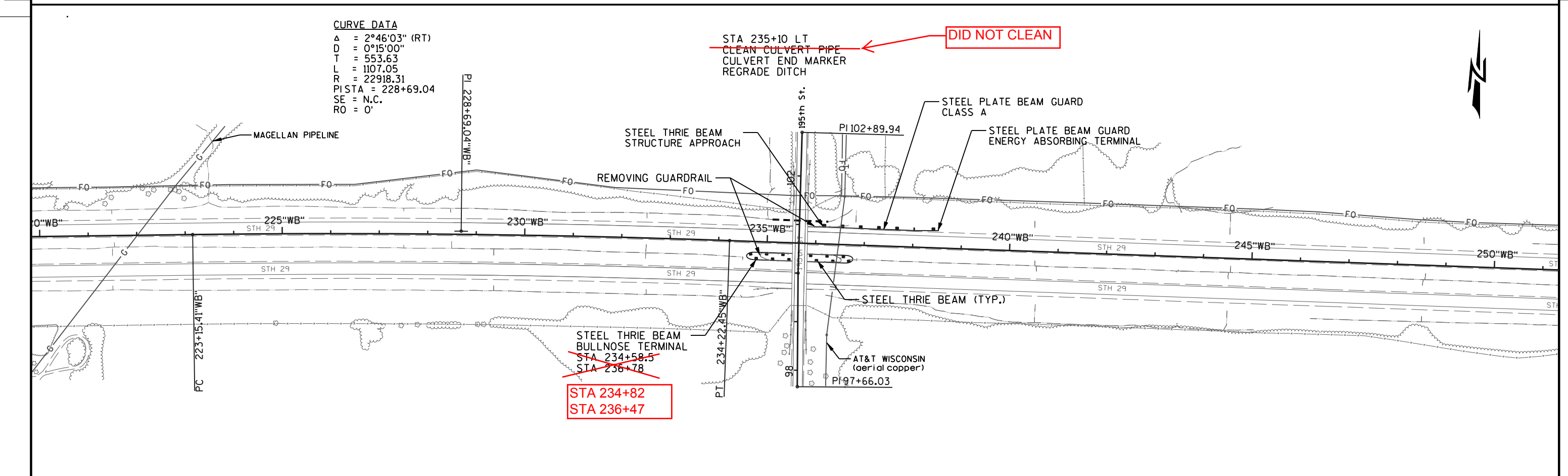
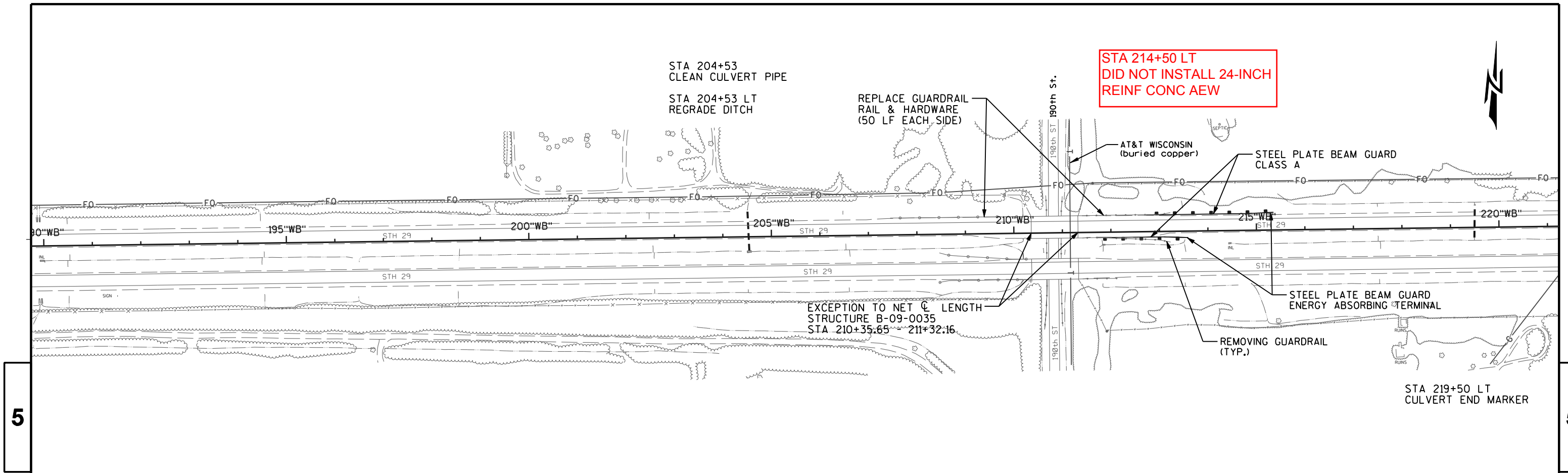
NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET
ARE ENGINEER ESTIMATE CATEGORY 0010,
UNLESS OTHERWISE NOTED.

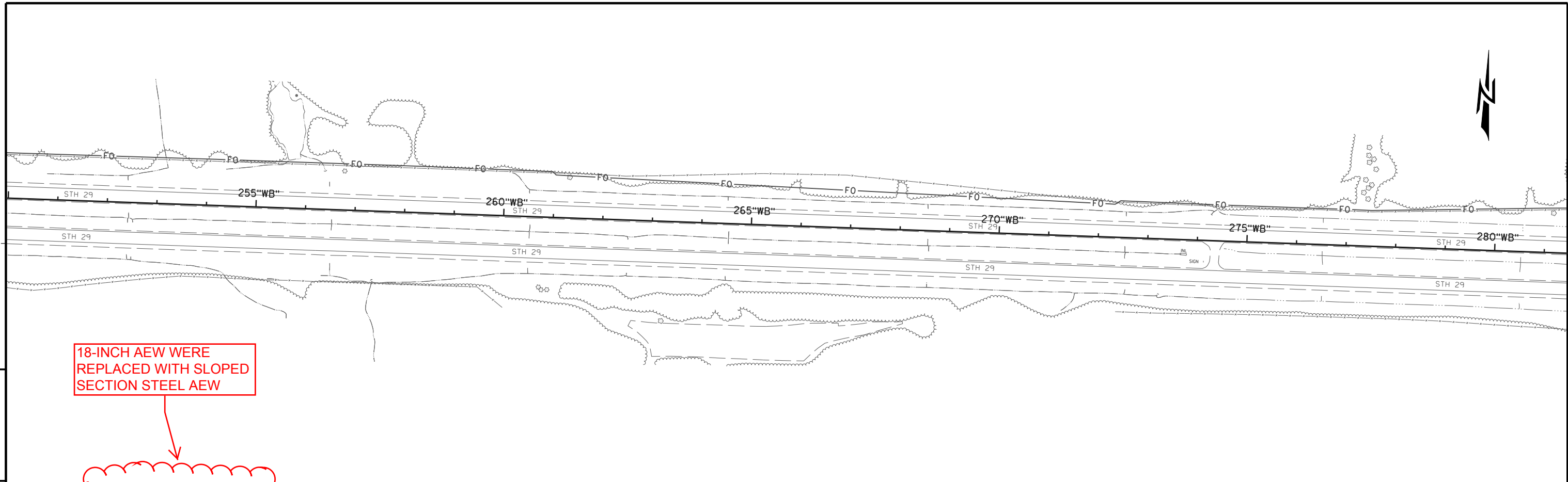
* SUB-TOTAL ONLY, FOR ADDITIONAL ITEM QUANTITIES:
- SEE CONCRETE PAVEMENT REPAIR SHEETS.
- SEE ITEM SUMMARY FOR TOTAL.

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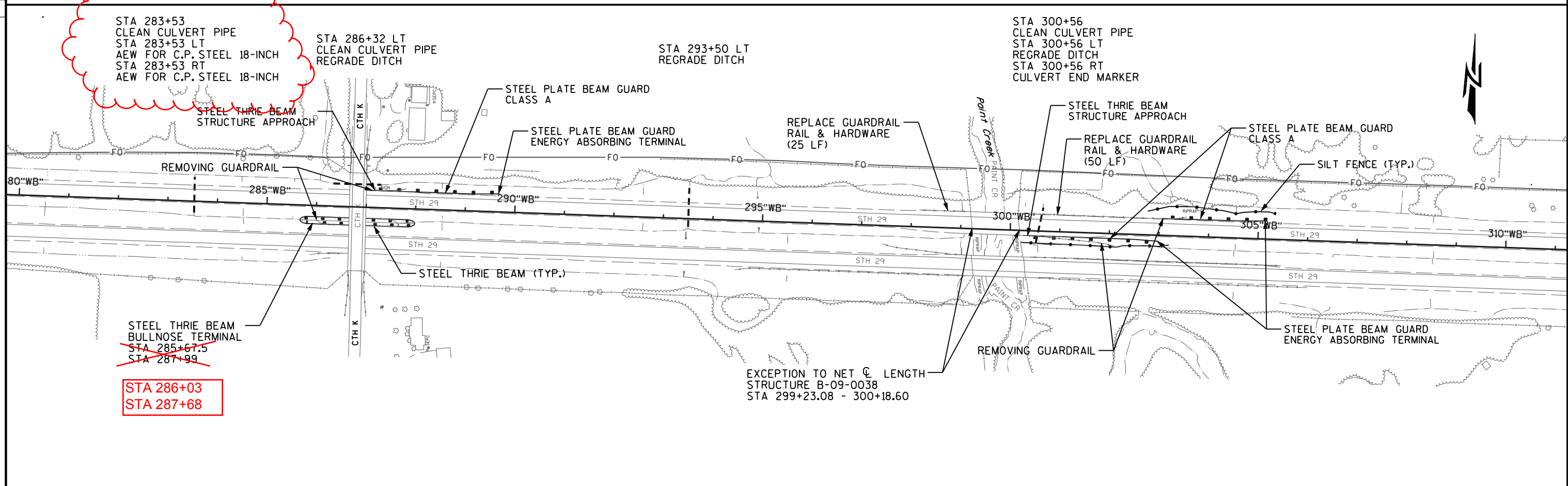
PROJECT NO: 1050-01-63	HWY: STH 29 WB	COUNTY: CHIPPEWA	PLAN STATION 135+89.57 - STATION 190+00	SHEET	E
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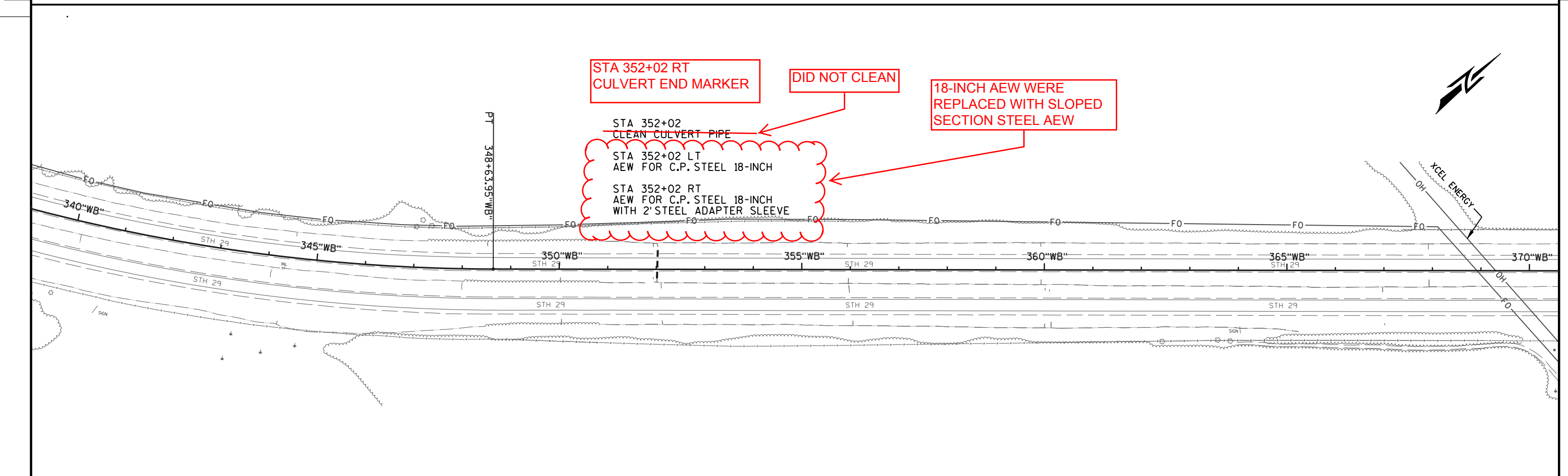
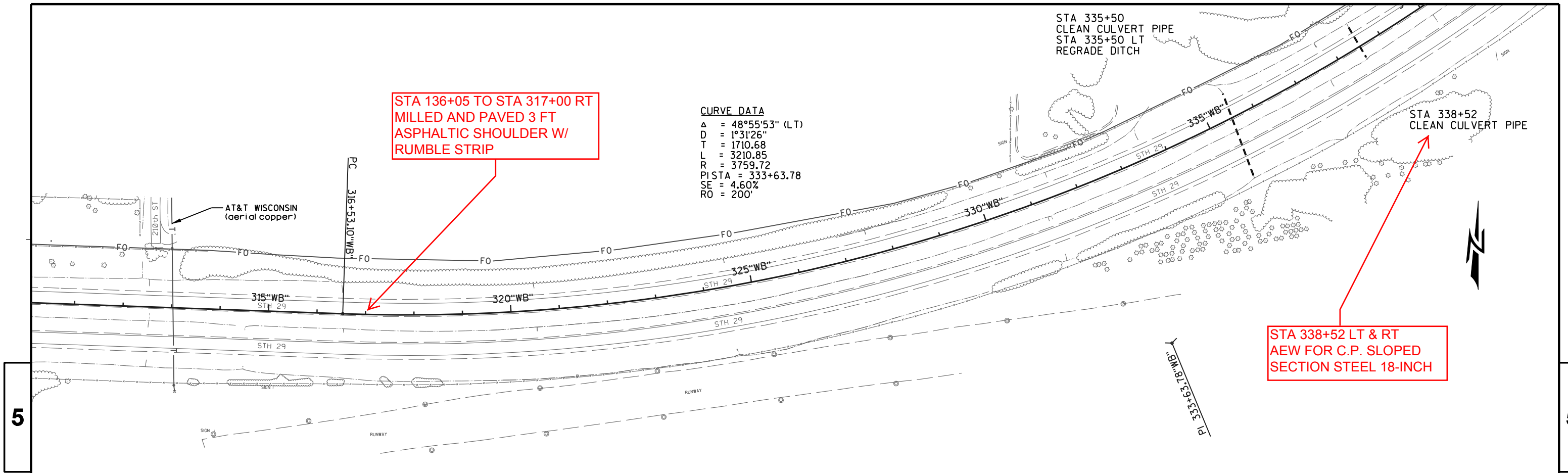


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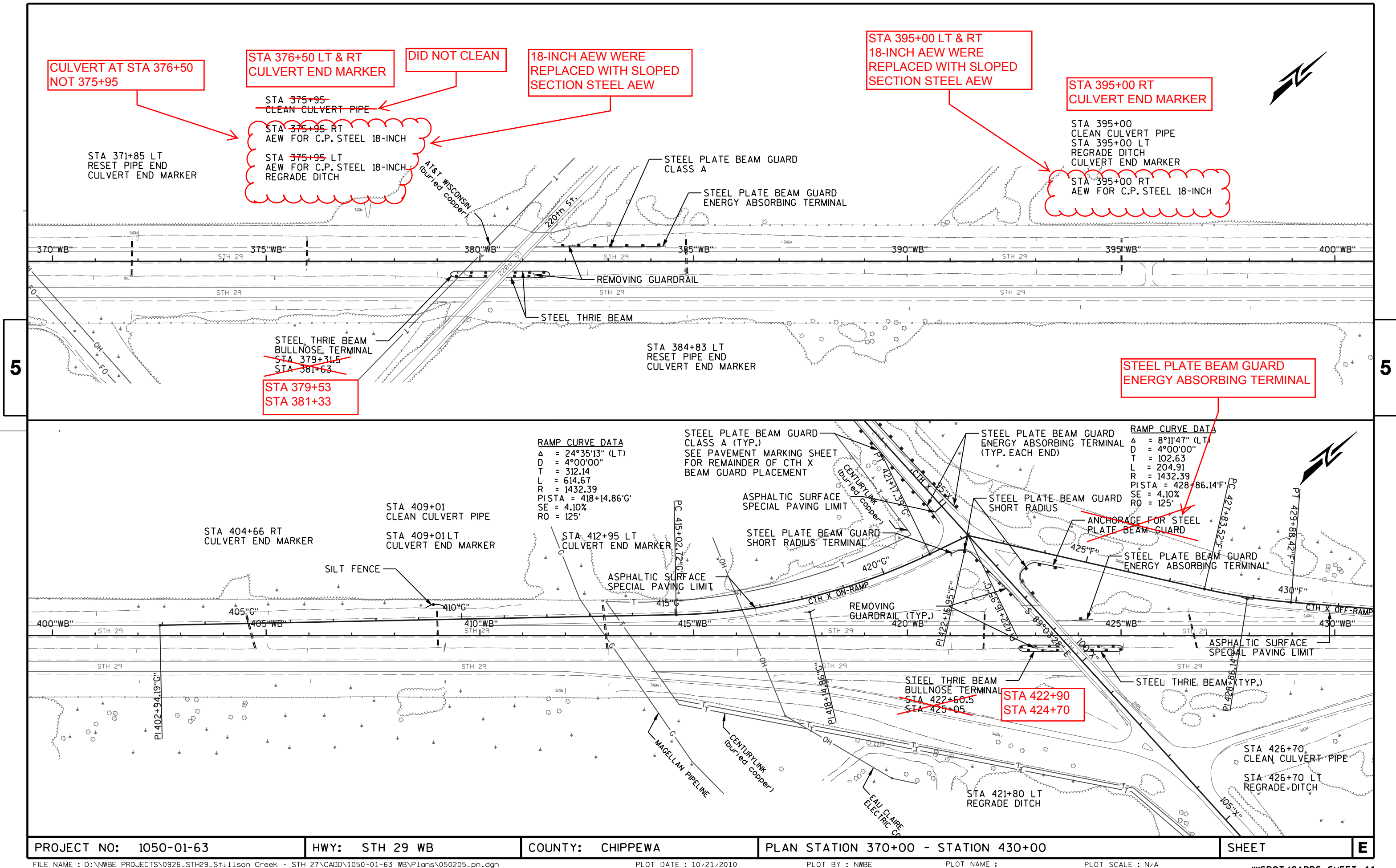
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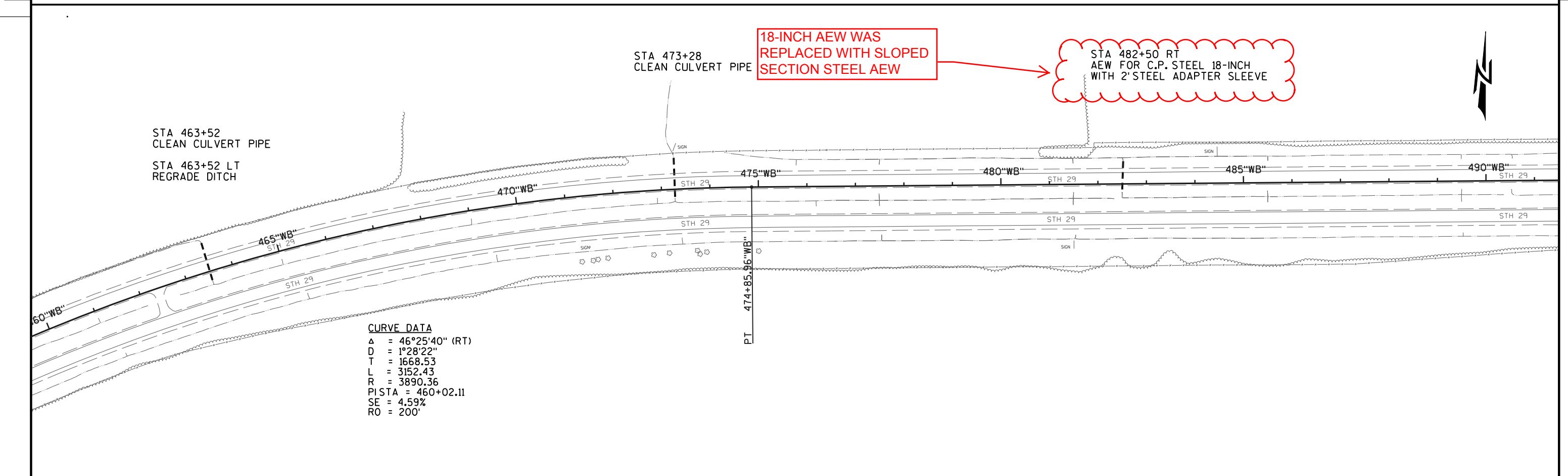
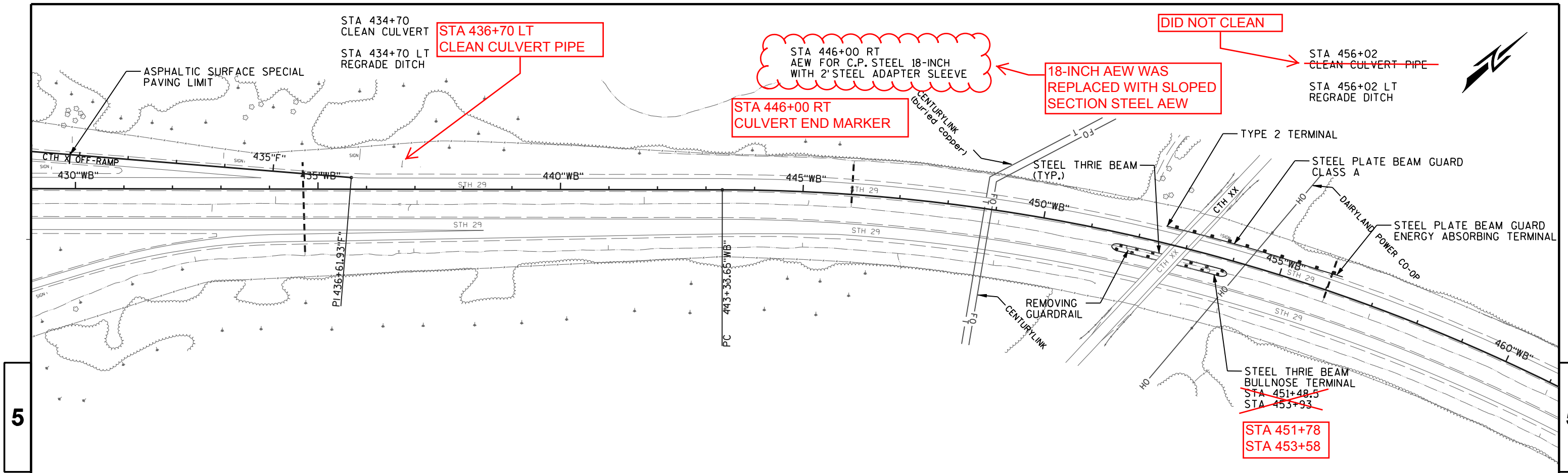


PROJECT NO: 1050-01-63	HWY: STH 29 WB	COUNTY: CHIPPEWA	PLAN STATION 250+00 - STATION 310+00	SHEET	E
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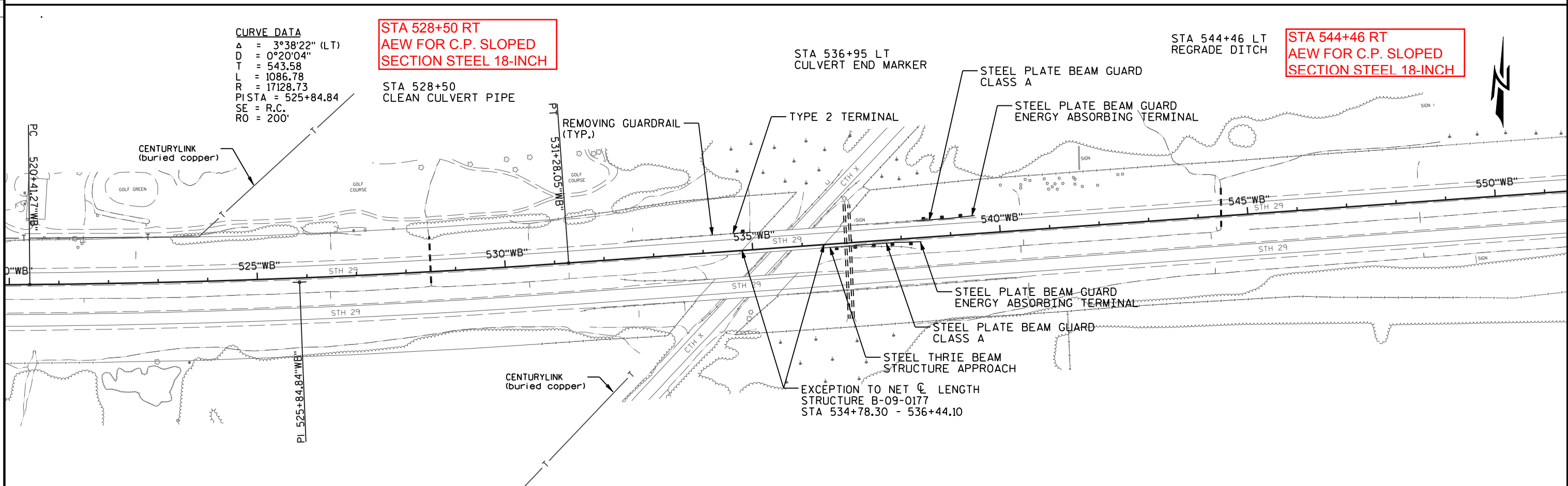
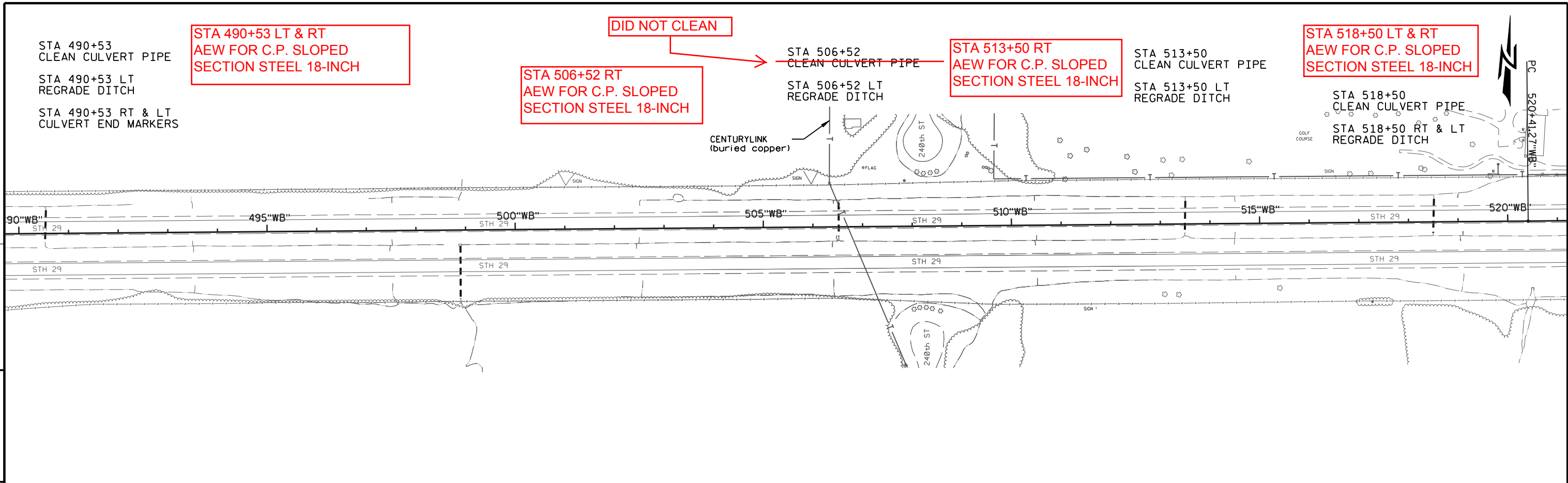


PROJECT NO: 1050-01-63	HWY: STH 29 WB	COUNTY: CHIPPEWA	PLAN STATION 310+00 - STATION 370+00	SHEET	E
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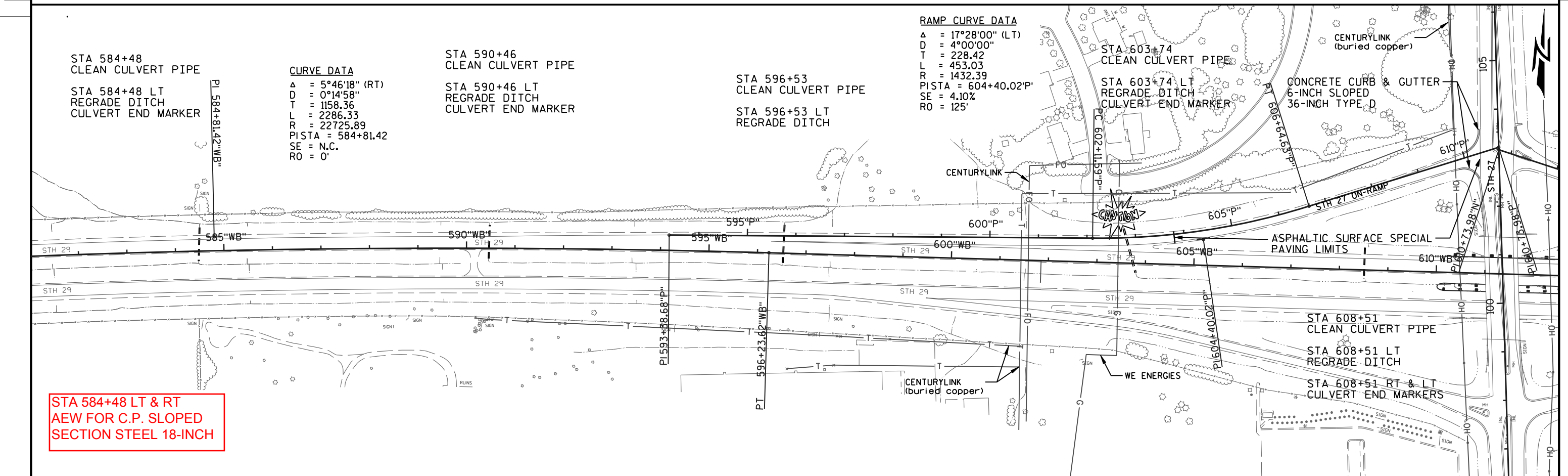
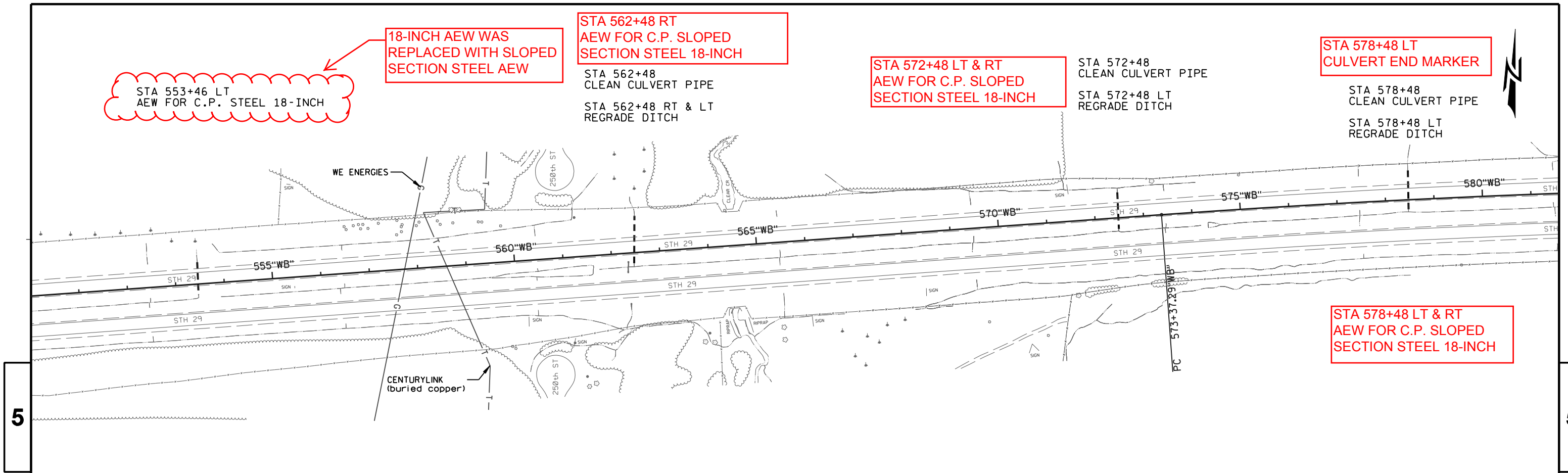




CURVE DATA
 Δ = 46°25'40" (RT)
 D = 1°28'22"
 T = 1668.53
 L = 3152.43
 R = 3890.36
 PISTA = 460+02.11
 SE = 4.59%
 RO = 200'



PROJECT NO: 1050-01-63	HWY: STH 29 WB	COUNTY: CHIPPEWA	PLAN STATION 490+00 - STATION 550+00	SHEET	E
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END PROJECT
STA. 611+36.62