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2B AND 2T (SKT) SPECIAL DETAIL R-62-H

As-Built  
Plans  
06-2016

**CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS**

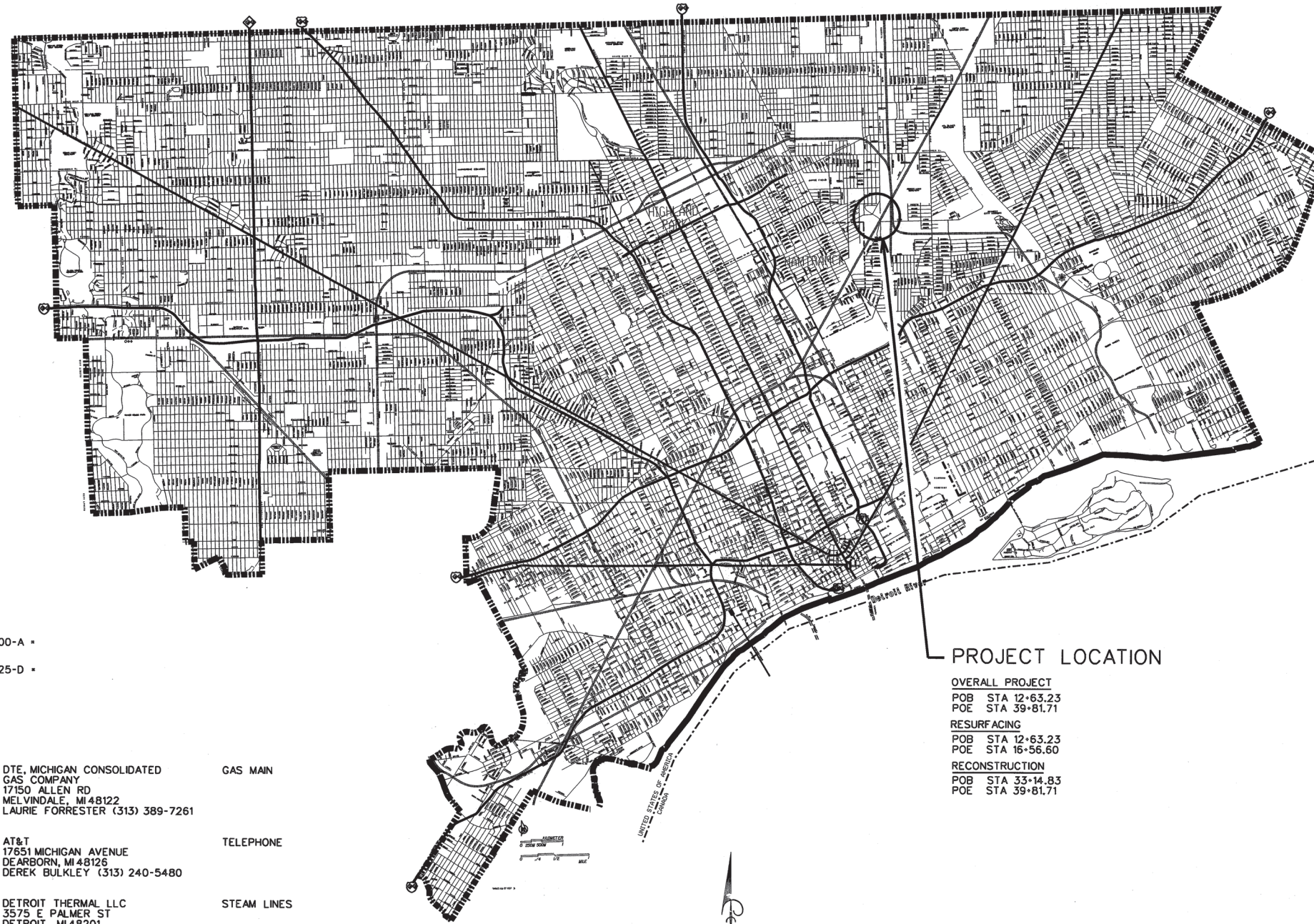
IN CO-OPERATION WITH

MICHIGAN DEPARTMENT OF TRANSPORTATION

CONTROL SECTION NO. MCS 82022  
JOB NO. 118543A  
STRUCTURE NO. 12345

PLANS FOR PROPOSED

**MT. ELLIOTT - MOUND ROAD OVER CN RAILROAD & CANIFF AVENUE  
BRIDGE CAPITAL PREVENTATIVE MAINTENANCE**

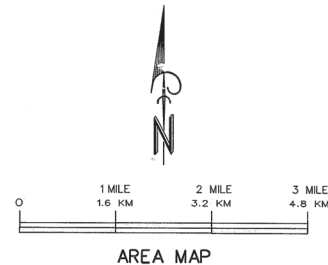


**PROJECT LOCATION**

**OVERALL PROJECT**  
POB STA 12+63.23  
POE STA 39+81.71

**RESURFACING**  
POB STA 12+63.23  
POE STA 16+56.60

**RECONSTRUCTION**  
POB STA 33+14.83  
POE STA 39+81.71



**MDOT STANDARD PLANS (NOT TO BE PRINTED)**

TITLE	PLAN NO.
CORRUGATED CONCRETE DIVIDER	R-38-C
TRANSVERSE PAVEMENT JOINTS (PLAIN CONCRETE PAVEMENT)	R-39-I
LOAD TRANSFER ASSEMBLIES FOR TRANSVERSE JOINTS	R-40-H
LONGITUDINAL PAVEMENT JOINTS	R-41-H
TYPICAL JOINT LAYOUTS FOR CONCRETE PAVEMENT	R-42-F
LOCATION OF TRANSVERSE JOINTS IN PLAIN CONCRETE PAVEMENT	R-43-I
CONCRETE PAVEMENT REPAIR	R-44-F
GUARDRAIL TYPES A, B, BD, T, AND TD	R-60-I
GUARDRAIL APPROACH TERMINAL TYPES 2B & 2T (SKT)	R-62-H
GUARDRAIL DEPARTING TERMINAL TYPES B & T	R-66-D
GUARDRAIL ANCHORAGE, BRIDGE, DETAILS	R-67-F
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E
MOLDING, BEVEL, LIGHT STANDARD ANCHOR BOLT ASSEMBLY AND NAME PLATE DETAILS	B-103-E

SPECIAL DETAILS - INCLUDED IN PLANS

**TRAFFIC AND SAFETY STANDARD PLANS**

WHEN THE FOLLOWING ITEMS ARE CALLED FOR IN THE PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLANS GIVEN BELOW OPPOSITE EACH ITEM, UNLESS OTHERWISE INDICATED.

- GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS WZD-100-A
- TEMPORARY TRAFFIC CONTROL DEVICES WZD-125-D

**UTILITY CONTACT INFORMATION**

<b>PUBLIC LIGHTING AUTHORITY</b> OF DETROIT 65 CADILLAC SQUARE SUITE 3100 DETROIT, MI 48226 MUKESH PATEL (313) 324-8290	<b>STREET LIGHTING</b>	<b>DTE, MICHIGAN CONSOLIDATED GAS COMPANY</b> 17150 ALLEN RD MELVINDALE, MI 48122 LAURIE FORRESTER (313) 389-7261	<b>GAS MAIN</b>
<b>CITY OF DETROIT</b> DWS J MADISON BLDG. 1420 WASHINGTON BLVD. DETROIT, MI 48226 GILBERT LEE (313) 964-9226	<b>WATER MAINS &amp; SEWERS</b>	<b>AT&amp;T</b> 17651 MICHIGAN AVENUE DEARBORN, MI 48126 DEREK BULKLEY (313) 240-5480	<b>TELEPHONE</b>
<b>CITY OF DETROIT</b> TRAFFIC ENGINEERING, D.P.W. 2633 MICHIGAN AVENUE DETROIT, MI 48207 ASHOK PATEL (313) 224-1610	<b>PAVEMENT MARKINGS, SIGNS &amp; TRAFFIC SIGNALS</b>	<b>DETROIT THERMAL LLC</b> 3575 E PALMER ST DETROIT, MI 48201 ED LAROSA (313) 921-1922	<b>STEAM LINES</b>
<b>DTE, DETROIT EDISON ONE ENERGY PLAZA</b> IGS GROUP, 518SB DETROIT, MI 48226 CHANELLE BARNEY (313) 235-4427	<b>ELECTRIC POWER</b>	<b>COMCAST CABLEVISION</b> 25626 TELEGRAPH RD SOUTHFIELD, MI 48034 GLEN YOUNGLOVE (248) 809-2712	<b>TV CABLE</b>

**GENERAL NOTES**

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE ACCORDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2012 EDITION.

THE WORK COVERED BY THESE PLANS INCLUDES CONCRETE RAILING, REPAIR, SUBSTRUCTURE PATCHING, ROCKER RE-ALIGNMENT AND DOWNSPOUT REPLACEMENT. ROAD REHABILITATION PLANS ARE INCLUDED AS A LOG PROJECT. SEE PROPOSAL FOR EXTENT OF ROAD WORK AND MAINTENANCE OF TRAFFIC.

ESTIMATED TRAFFIC DISTRIBUTION

AVERAGE DAILY TRAFFIC	2600
FUTURE ADT (2035)	2600
DESIGN HOURLY VOLUME	COMMERCIAL (3%)
POSTED SPEED	30 MPH
DESIGN SPEED	35 MPH

THE DESIGN OF THE STRUCTURAL MEMBERS IS BASED ON THE MATERIAL OF THE FOLLOWING GRADES AND STRESSES:

CONCRETE, GRADE D	f'c = 4,000 psi
STEEL REINFORCEMENT	f's = 60,000 psi

SYSTEMS FOR ANCHORING HORIZONTAL OR VERTICAL REINFORCEMENT IN EXISTING CONCRETE SHALL BE CHOSEN FROM THE QUALIFIED PRODUCTS LIST IN THE CURRENT MDOT MATERIALS SOURCE GUIDE.


ALL EXPOSED CONCRETE CORNERS SHOWN SQUARE ON THE PLANS SHALL BE BEVELED WITH 1/2" TRIANGULAR MOLDINGS EXCEPT AS OTHERWISE NOTED.

BIDDERS WILL BE FURNISHED WITH SCANNED IMAGES OF PLAN SHEETS OF THE EXISTING STRUCTURE IF REQUESTED. CONTACT THE WADE TRIM PROJECT MANAGER, ROBERT BREEN, PE (734) 947-9700.

UNLESS OTHERWISE SHOWN ON THE PLANS PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT ACCORDING TO THE FOLLOWING:  
CONCRETE CAST AGAINST EARTH: 3 IN  
ALL OTHER UNLESS SHOWN ON PLANS: 2 IN

CONTRACT FOR CAPITAL PREVENTIVE MAINTENANCE (CPM) WORK AT BRIDGE & ROADWAY REHABILITATION

LOCAL AUTHORITY APPROVAL  
CITY OF DETROIT  
CITY ENGINEERING DIVISION  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY  10-15  
CITY ENGINEER DATE

PREPARED UNDER THE SUPERVISION OF:



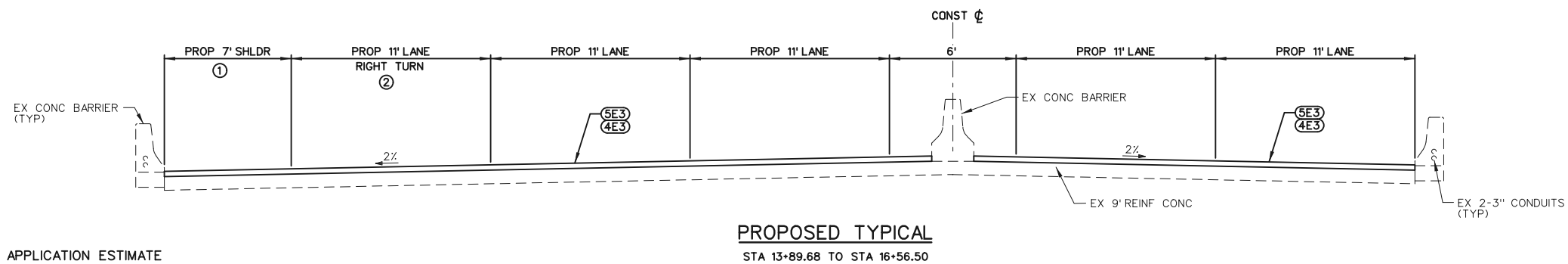
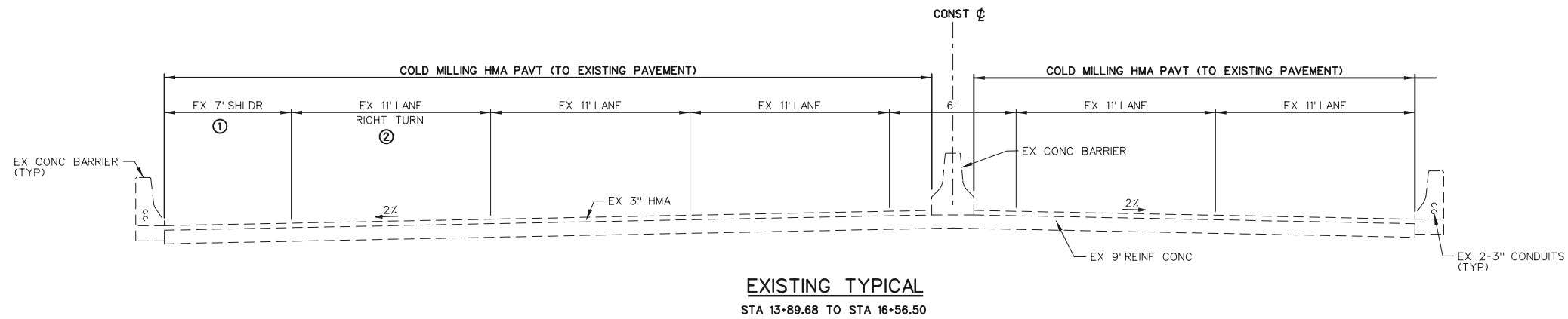
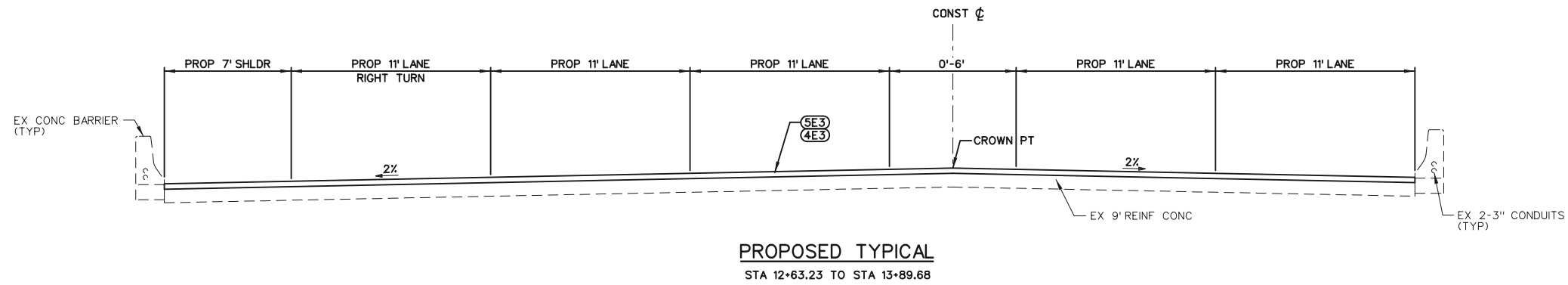
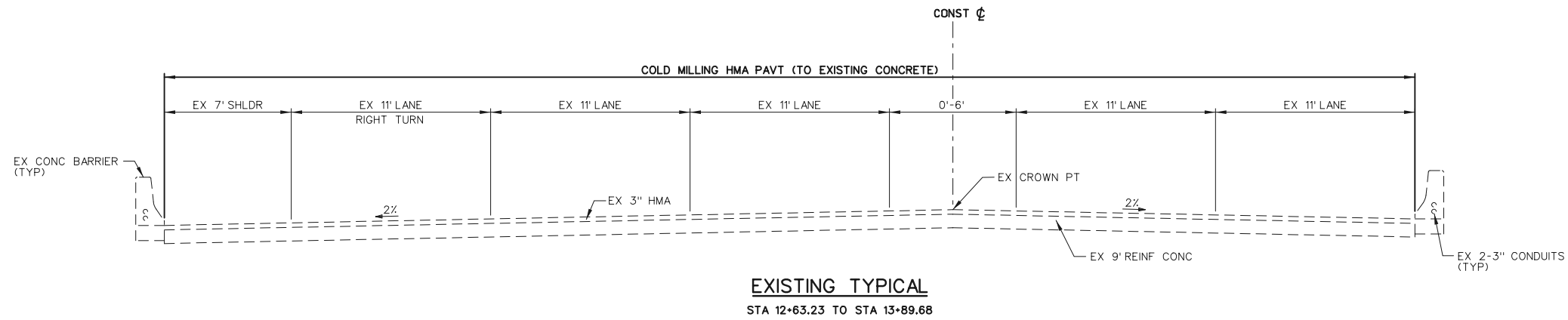
 28033 10/1/15  
ROBERT R. BREEN, PE LICENSE # DATE

**WADETRIM**  
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313.961.3650  
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JOB NO. DTE 2025-18T

SHEET 1 OF 27



- ① 7' STA 12+63.23 TO STA 15+13.23  
VARIES 7'-0" STA 15+13.23 TO STA 16+13.23
- ② VARIES 11'-0" STA 15+13.23 TO STA 16+13.23  
0' STA 16+13.23 TO STA 16+56.50

**HMA APPLICATION ESTIMATE**

IDENT NO.	PAY ITEM	RATE (LB/SYD)	PERFORMANCE GRADE	DEPTH	REMARKS
5E3	HMA, 5E3	165	64-22	1.5"	TOP COURSE, AWI-220
4E3	HMA, 4E3	220	64-22	2"	LEVELING COURSE
APP	HMA APPROACH	385	64-22	3.5"	5E3 & 4E3
	* BOND COAT	0.05-0.15 GAL			

\*FOR INFORMATION ONLY

	BY
	DATE
	DESCRIPTION

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Troy, MI 48063  
313.981.3850  
FAX: 313.981.0888  
www.wadetrिम.com

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**DEPARTMENT OF PUBLIC WORKS**  
**CITY ENGINEERING DIVISION**  
**MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF**

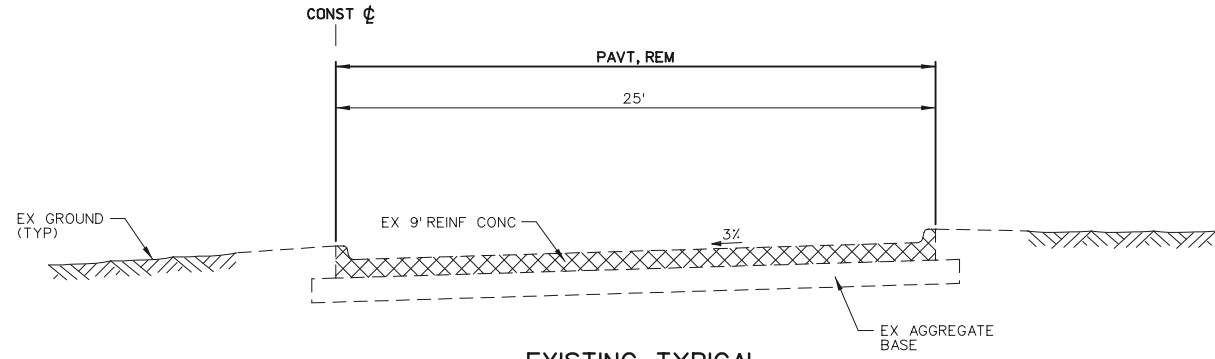
  

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LETTING	9/15 RRB	

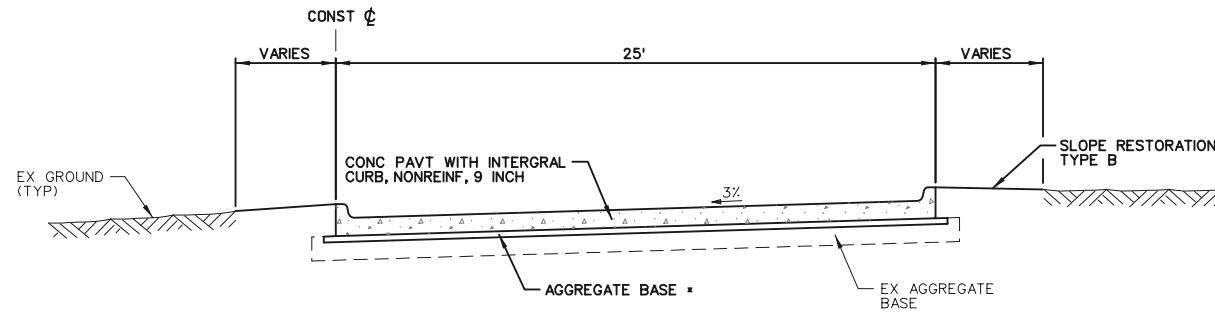
  

JOB NO. DTE 2025-18T	
SHEET	2

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**EXISTING TYPICAL**  
 STA 10+87.18 TO STA 13+53.34



\* PLACE AGGREGATE BASE AS NECESSARY TO ACHIVE FINAL PAVEMENT GRADES

**PROPOSED TYPICAL**  
 STA 10+87.18 TO STA 13+53.34

REV	DATE	DESCRIPTION	BY

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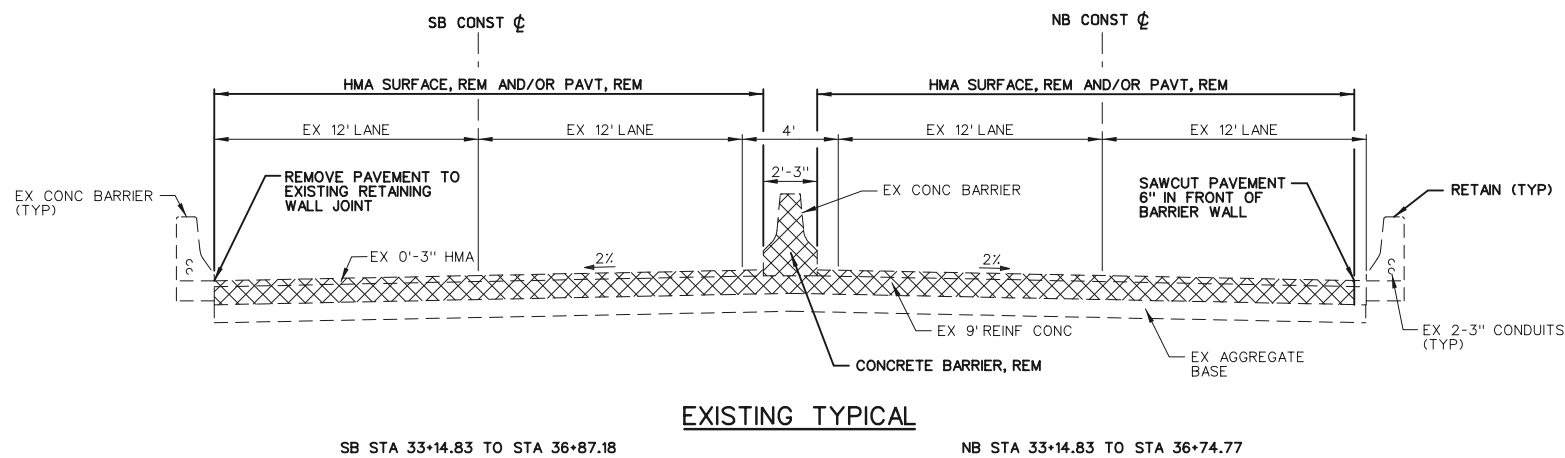
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SHEET  
**4**

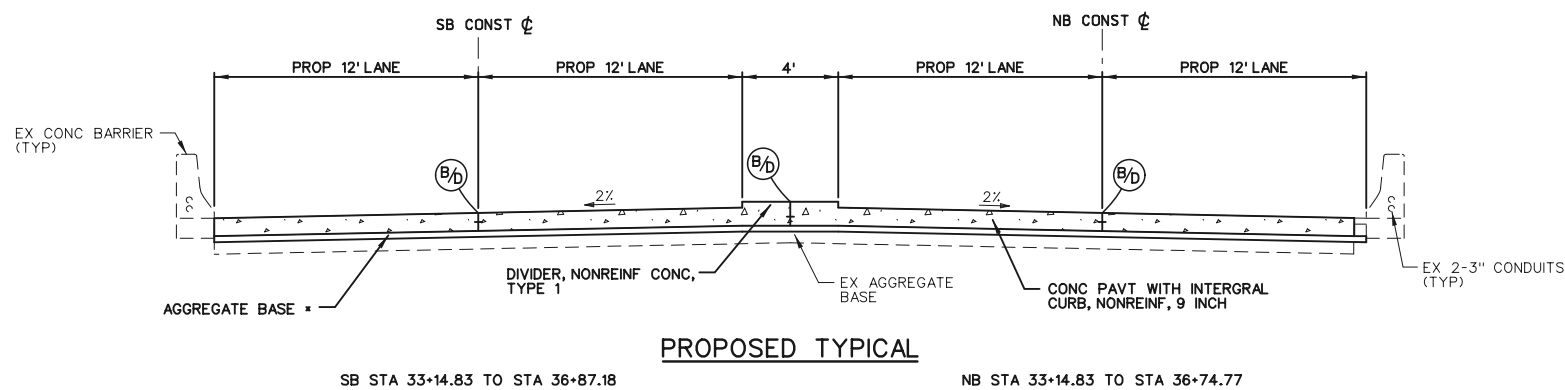
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PROJECT MANAGER: C:\pwworking\micolls\00586288\C3-PL15-CrossSection3.dgn



SB STA 33+14.83 TO STA 36+87.18

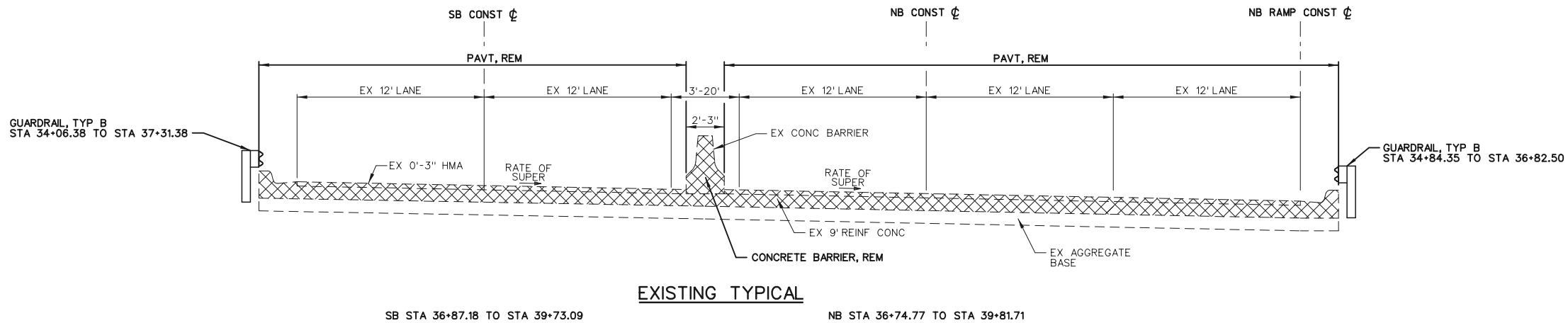
NB STA 33+14.83 TO STA 36+74.77



SB STA 33+14.83 TO STA 36+87.18

NB STA 33+14.83 TO STA 36+74.77

PLACE AGGREGATE BASE AS NECESSARY TO ACHIEVE FINAL PAVEMENT GRADES

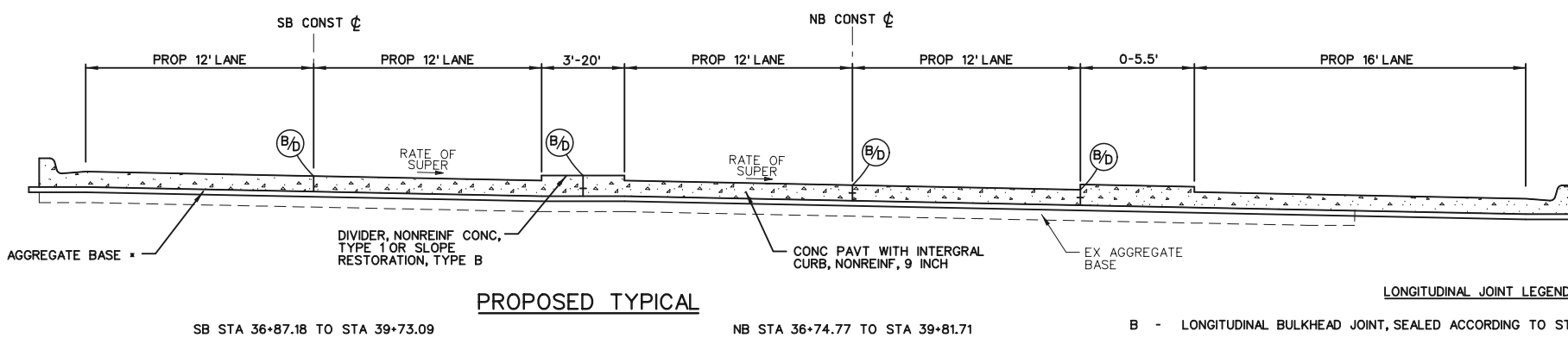


SB STA 36+87.18 TO STA 39+73.09

NB STA 36+74.77 TO STA 39+81.71

GUARDRAIL, TYP B  
STA 34+06.38 TO STA 37+31.38

GUARDRAIL, TYP B  
STA 34+84.35 TO STA 36+82.50



SB STA 36+87.18 TO STA 39+73.09

NB STA 36+74.77 TO STA 39+81.71

PLACE AGGREGATE BASE AS NECESSARY TO ACHIEVE FINAL PAVEMENT GRADES

LONGITUDINAL JOINT LEGEND

- B - LONGITUDINAL BULKHEAD JOINT, SEALED ACCORDING TO STANDARD PLAN R-41 SERIES, SYMBOL (B)
- D - LONGITUDINAL LANE TIE JOINT WITH TIE BARS, SEALED ACCORDING TO STANDARD PLAN R-41 SERIES, SYMBOL (D).

REV	DATE	DESCRIPTION	BY

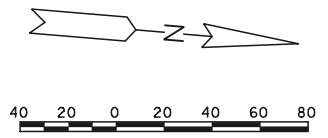
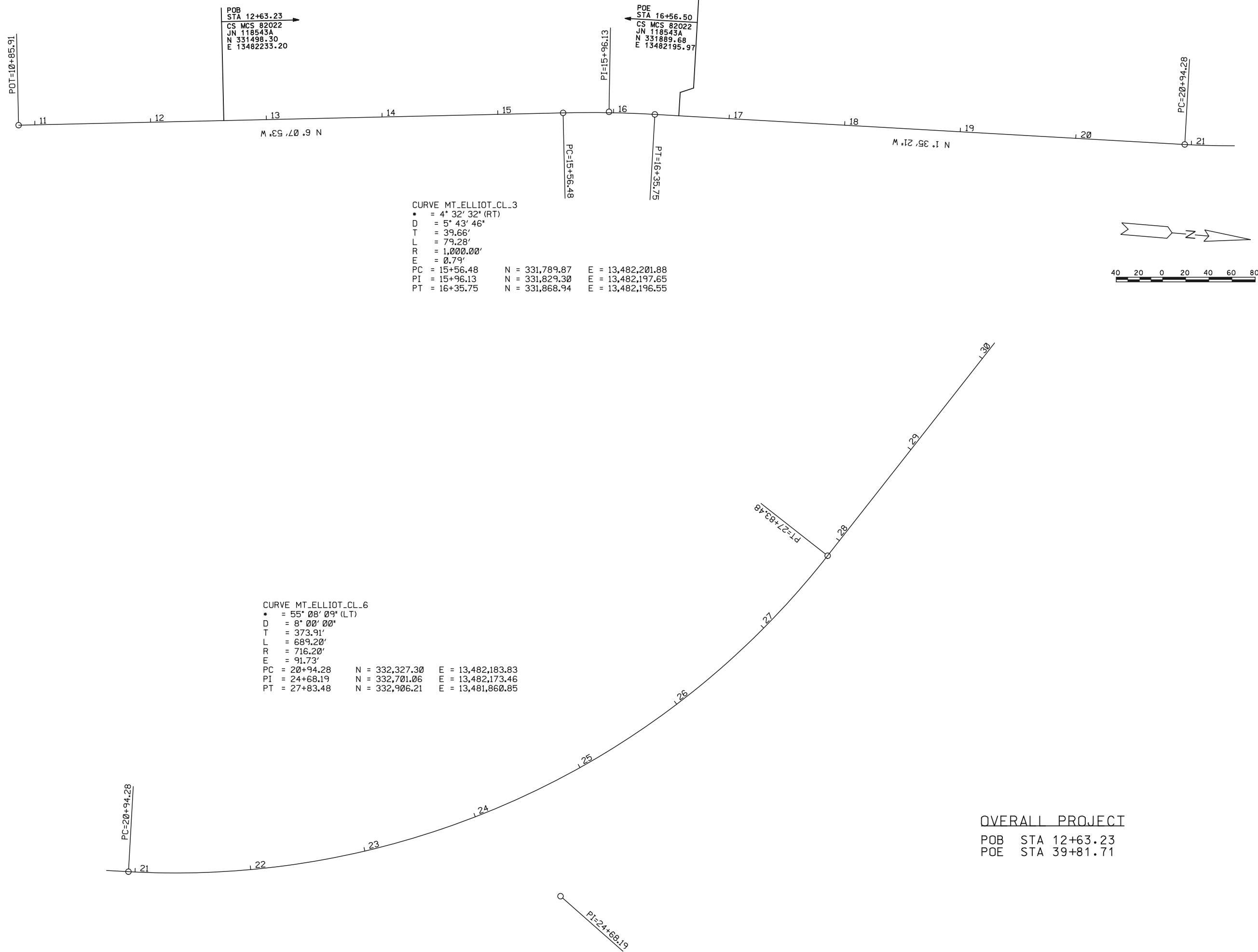
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 MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF

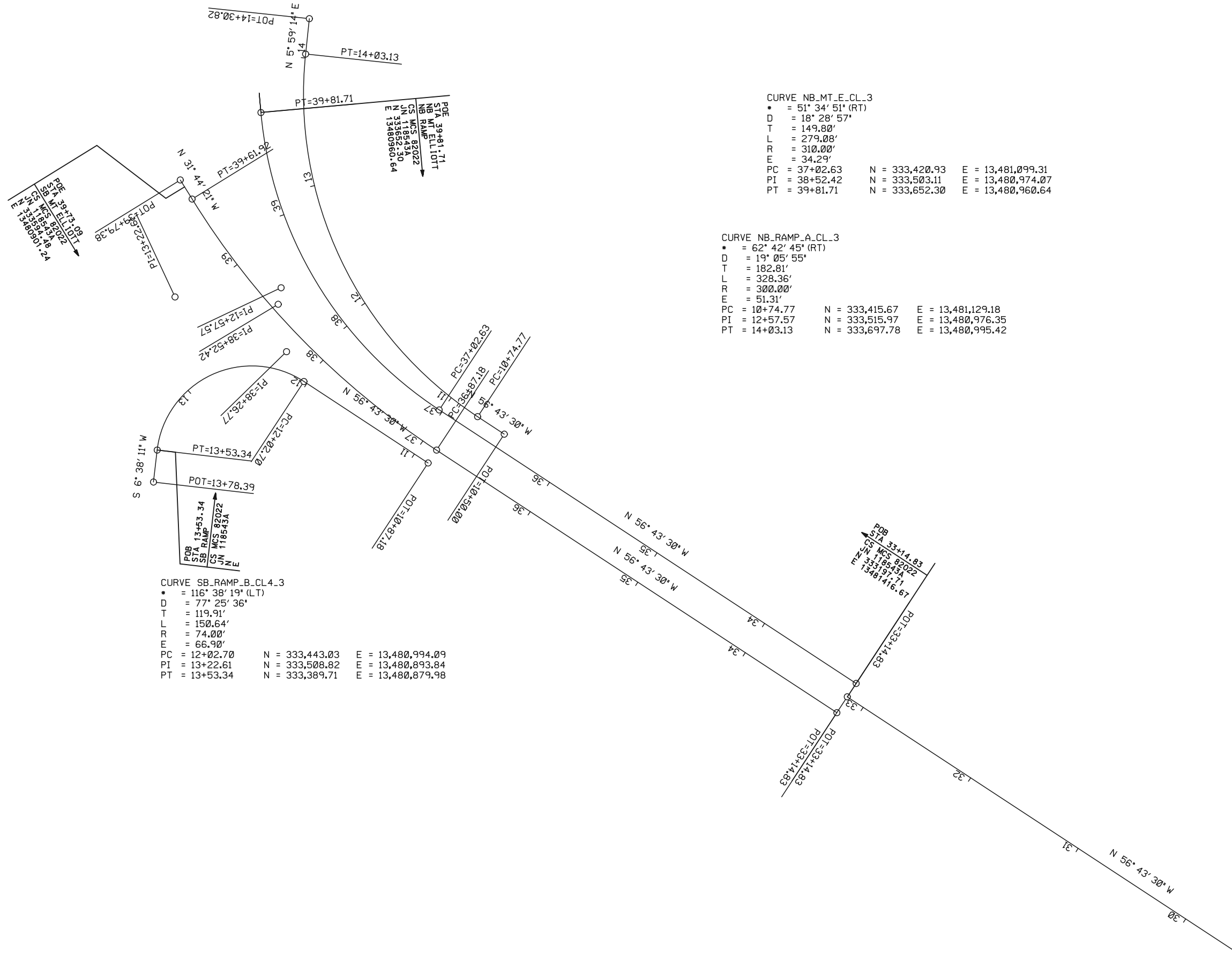
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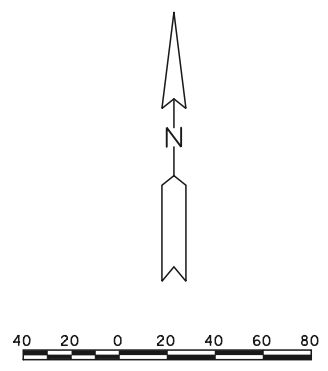
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SHEET	DESCRIPTION
5	REV. DATE



CURVE SB\_RAMP\_B.CL4-3  
• = 116° 38' 19" (LT)  
D = 77' 25' 36"  
T = 119.91'  
L = 150.64'  
R = 74.00'  
E = 66.90'  
PC = 12+02.70 N = 333,443.03 E = 13,480,994.09  
PI = 13+22.61 N = 333,508.82 E = 13,480,893.84  
PT = 13+53.34 N = 333,389.71 E = 13,480,879.98

CURVE NB\_RAMP\_A.CL-3  
• = 62° 42' 45" (RT)  
D = 19° 05' 55"  
T = 182.81'  
L = 328.36'  
R = 300.00'  
E = 51.31'  
PC = 10+74.77 N = 333,415.67 E = 13,481,129.18  
PI = 12+57.57 N = 333,515.97 E = 13,480,976.35  
PT = 14+03.13 N = 333,697.78 E = 13,480,995.42

CURVE NB\_MT\_E.CL-3  
• = 51° 34' 51" (RT)  
D = 18° 28' 57"  
T = 149.80'  
L = 279.08'  
R = 310.00'  
E = 34.29'  
PC = 37+02.63 N = 333,420.93 E = 13,481,099.31  
PI = 38+52.42 N = 333,503.11 E = 13,480,974.07  
PT = 39+81.71 N = 333,652.30 E = 13,480,960.64



OVERALL PROJECT  
POB STA 12+63.23  
POE STA 39+81.71

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SHEET  
6

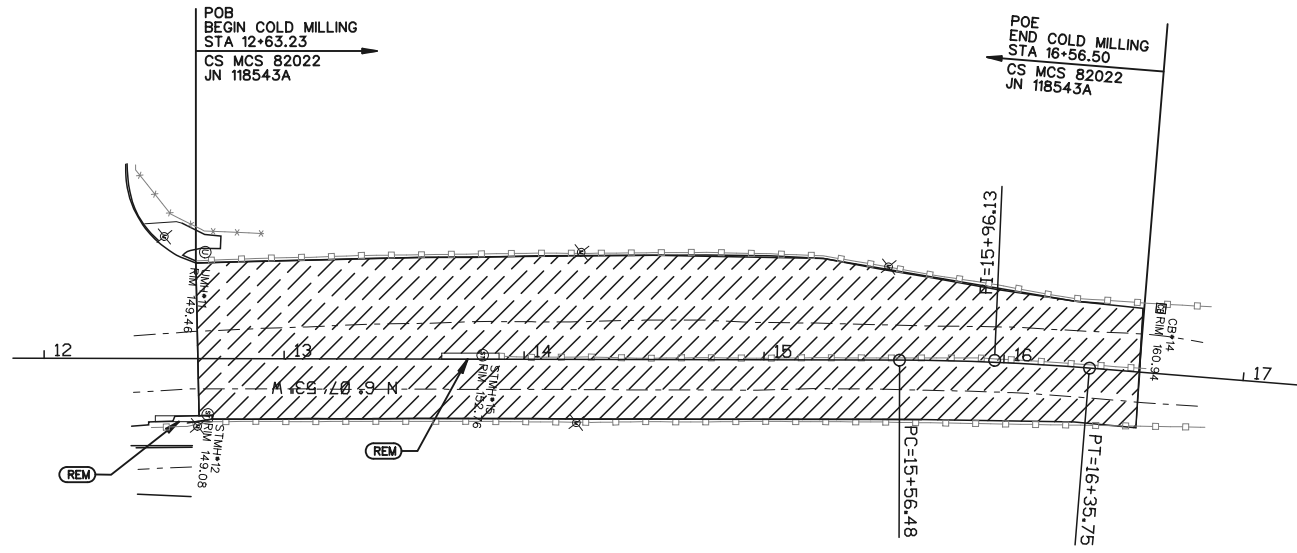
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REV	DATE	DESCRIPTION	BY

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E=13482232.07

▲ Trk 2  
N=33720.73  
E=13482231.04

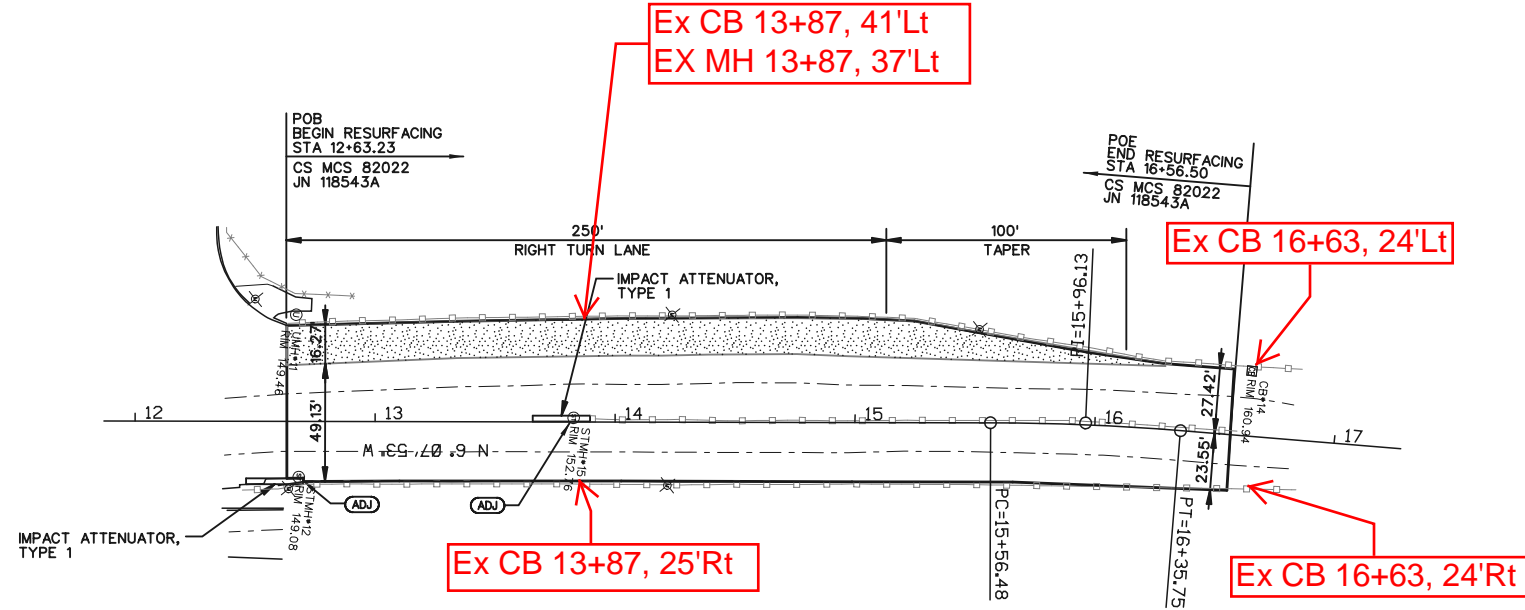


REMOVAL QUANTITIES THIS SHEET

3100	Ft	Pavt Joint and Crack Repr, Det 7
550	Ft	Pavt Joint and Crack Repr, Det 8
2800	Syd	Cold Milling HMA Surface
2	Ea	Impact Attenuator, Removal and Disposal

▲ Trk 4  
N=33720.43  
E=13482232.07

▲ Trk 2  
N=33720.73  
E=13482231.04



CONSTRUCTION QUANTITIES THIS SHEET

260	Ton	HMA, 4E3
195	Ton	HMA, 5E3
115	Ton	HMA Approach
210	Ton	Hand Patching
10000	Dir	Impact Attenuator, Type 1
2	Ea	Impact Attenuator Installation
2	Ea	Dr Structure Cover, Adj, Case 1

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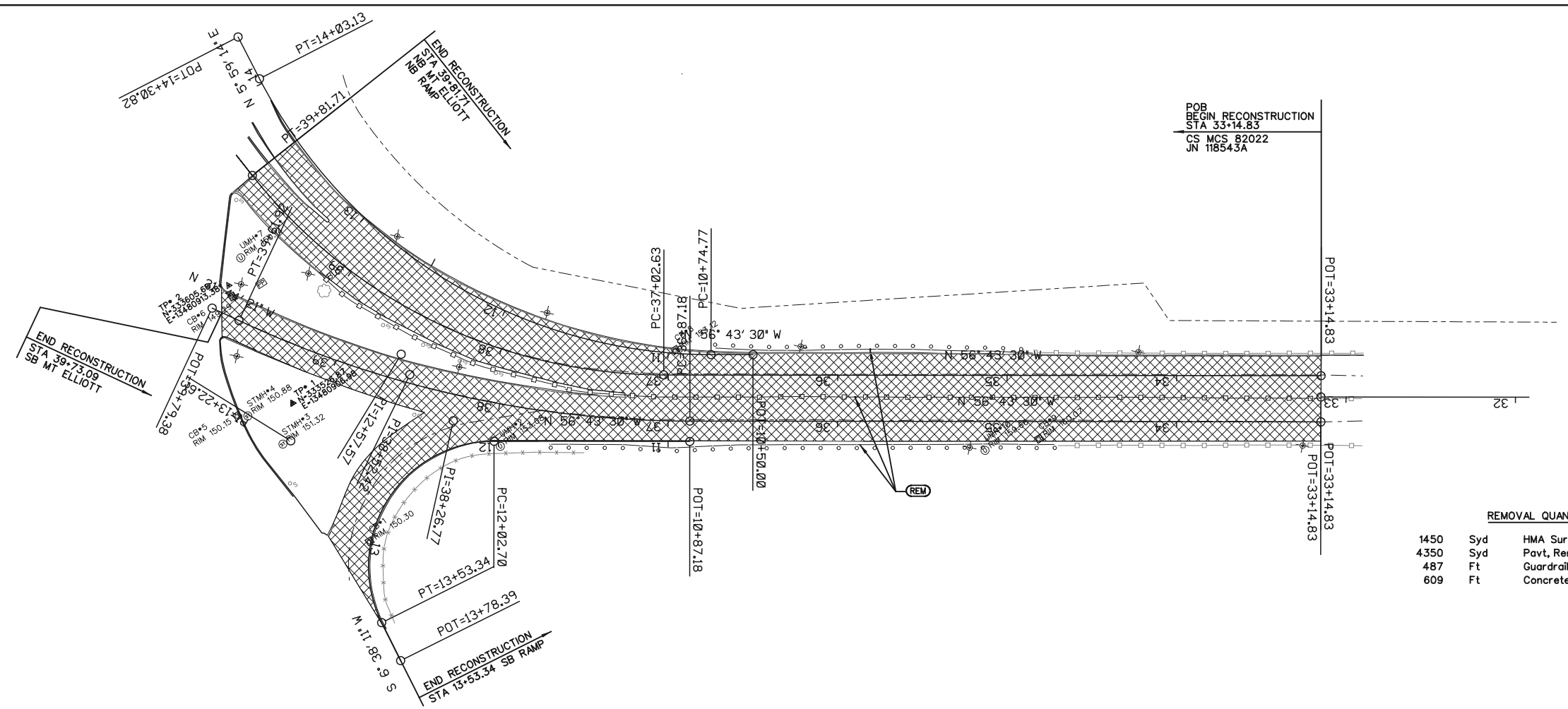


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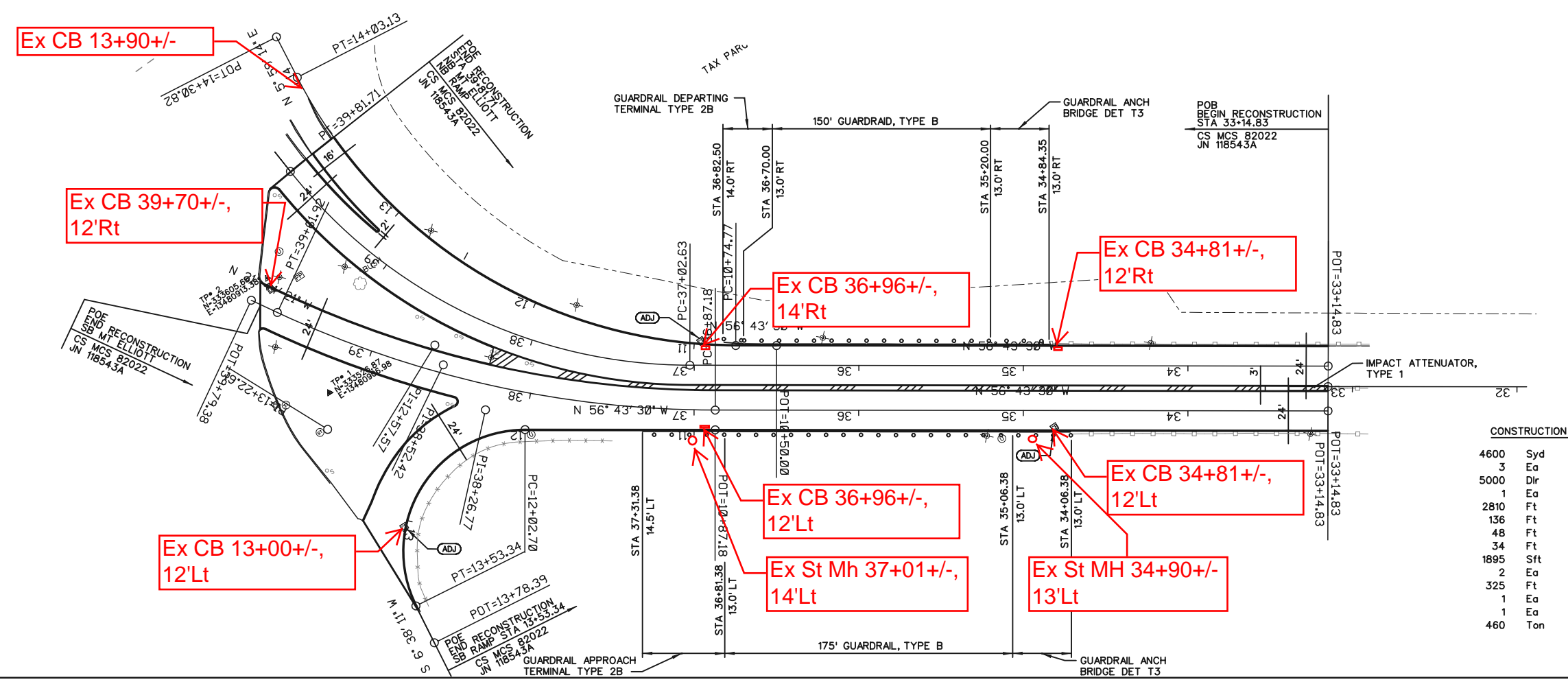
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SHEET 7



**REMOVAL QUANTITIES THIS SHEET**

1450	Syd	HMA Surface, Rem
4350	Syd	Pavt, Rem
487	Ft	Guardrail, Rem
609	Ft	Concrete Barrier, Rem



**CONSTRUCTION QUANTITIES THIS SHEET**

4600	Syd	Conc Pavt with Integral Curb, Nonreinf, 9 inch
3	Ea	Dr Structure Cover, Adj, Case 1
5000	Dlr	Impact Attenuator, Type 1
1	Ea	Impact Attenuator Installation
2810	Ft	Joint, Contraction, Cp
136	Ft	Joint, Expansion, E2
48	Ft	Joint, Expansion, E3
34	Ft	Curb and Gutter, Bridge Approach
1895	Sft	Divider, Nonreinf Conc, Type 1
2	Ea	Guardrail Anch, Bridge, Det T3
325	Ft	Guardrail, Type B
1	Ea	Guardrail Approach Terminal, Type 2B
1	Ea	Guardrail Departing Terminal, Type B
460	Ton	Aggregate Base

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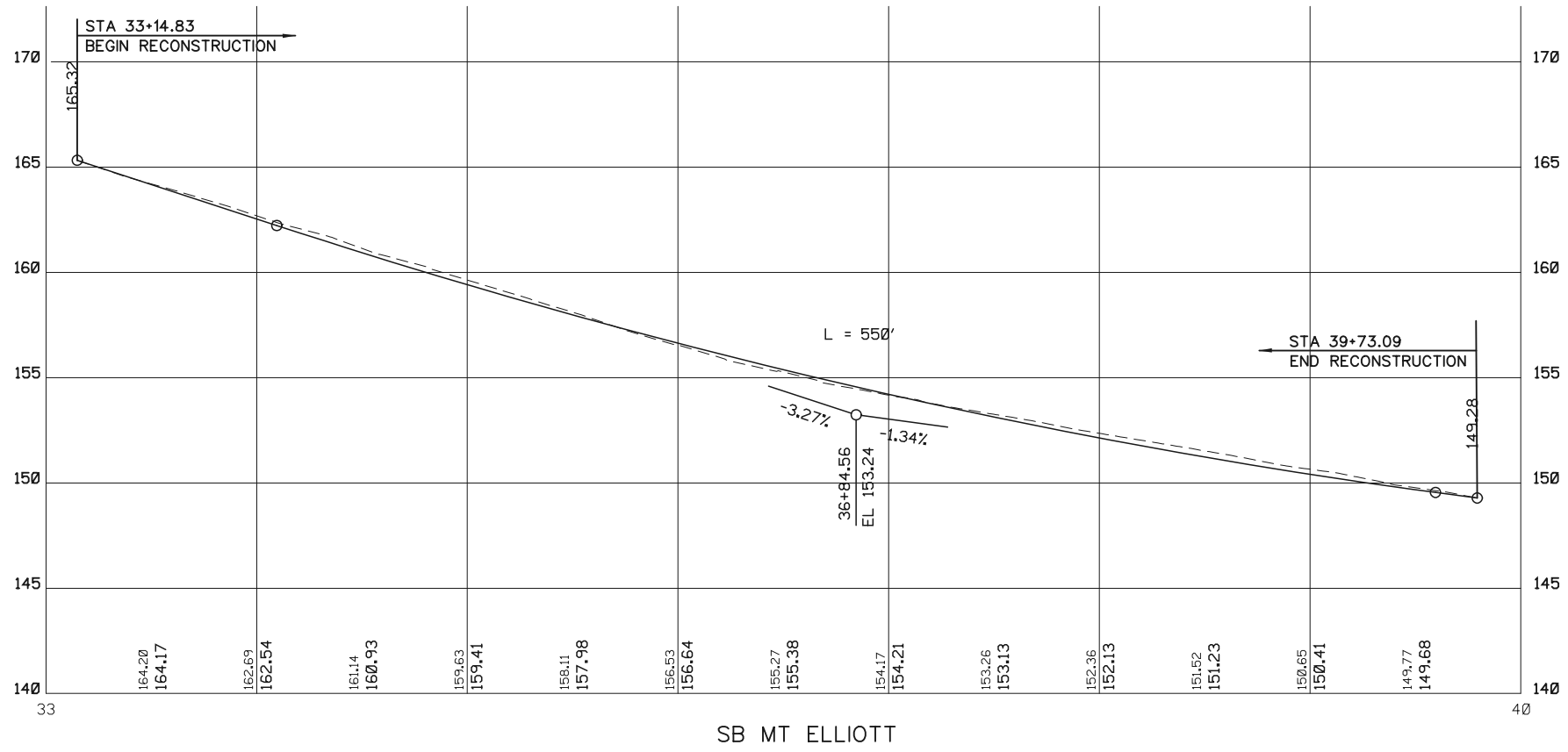
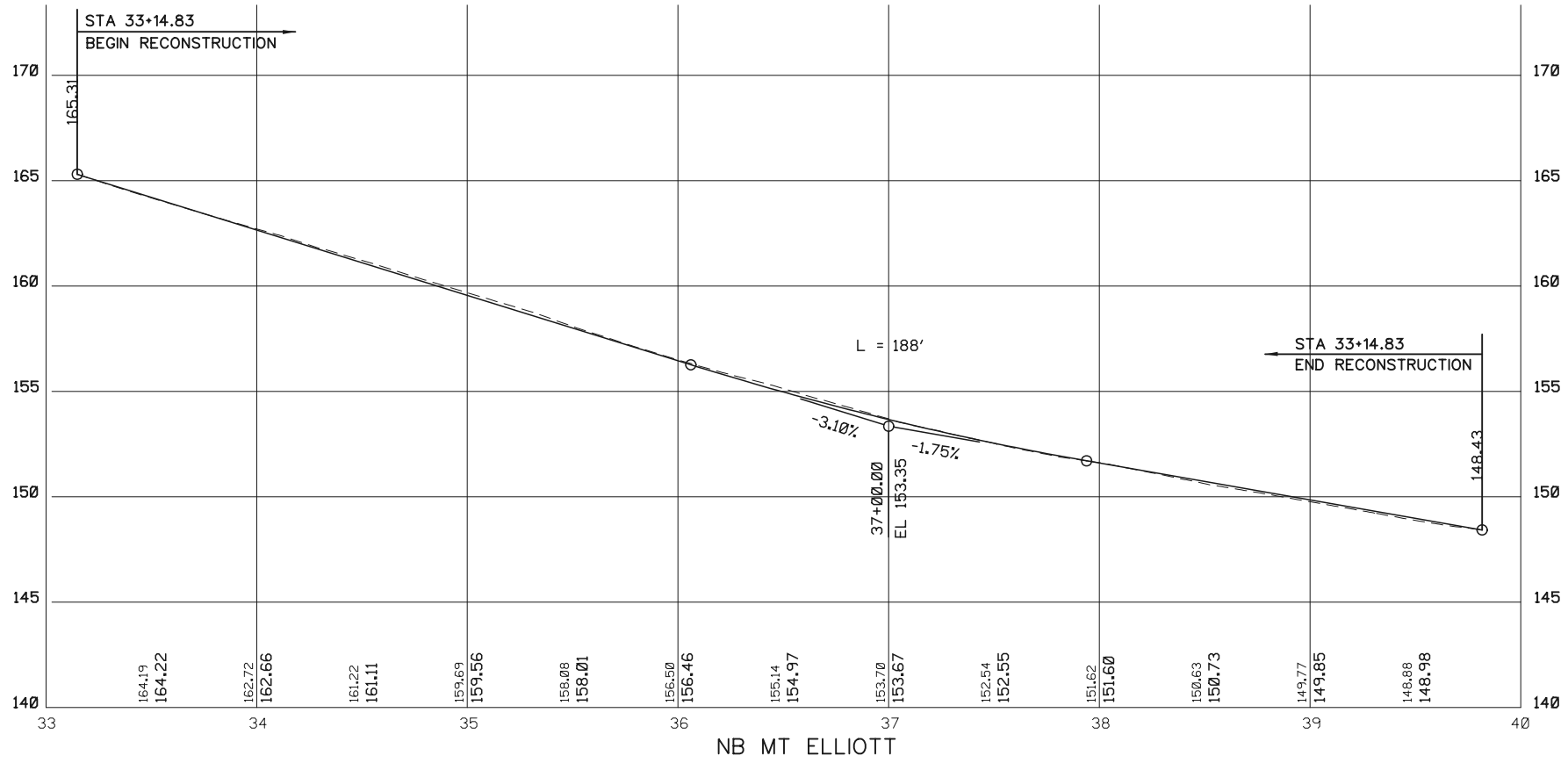
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 MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF**

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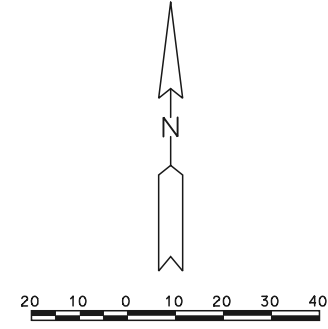
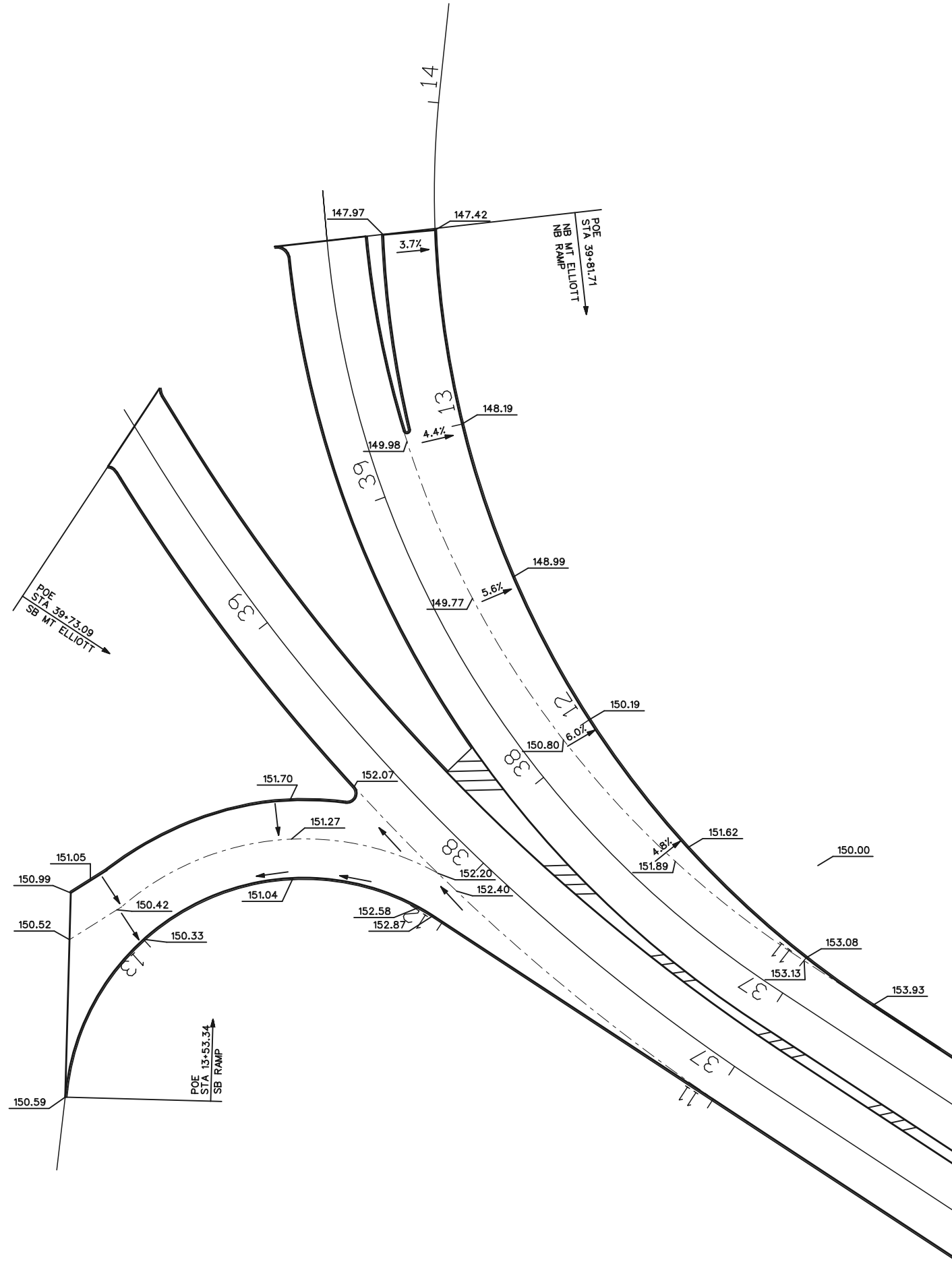
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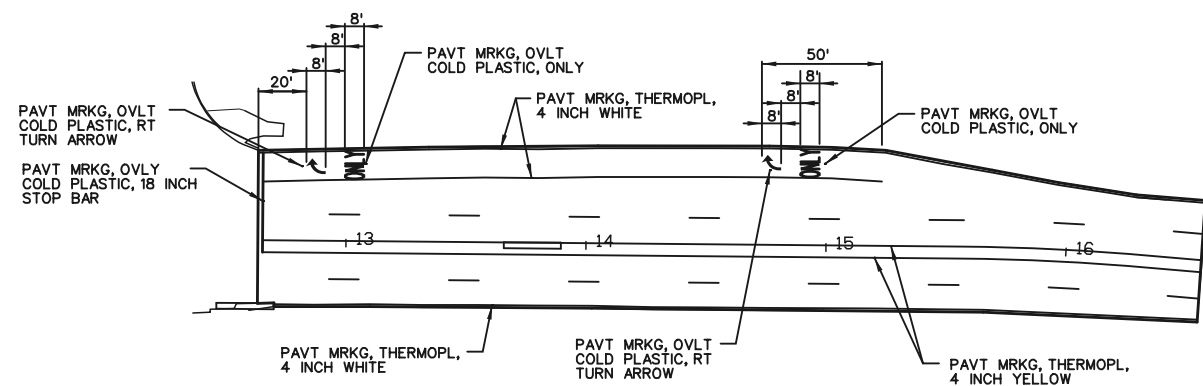
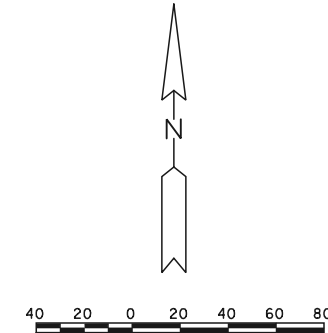
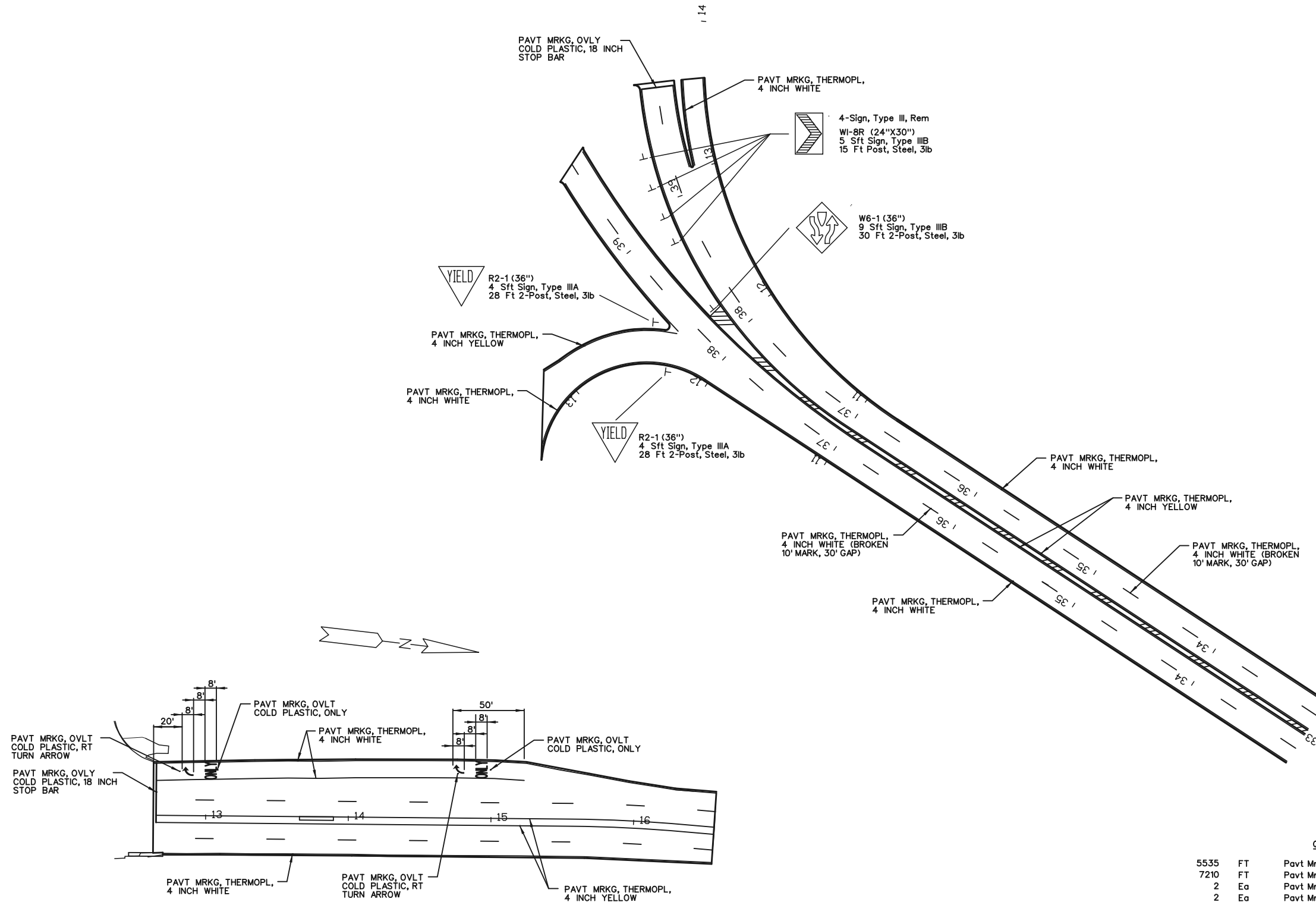


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<p>JOB NO.                  DT# 2025-18T</p>	<p>REV. DATE DESCRIPTION</p>
<p>SHEET                  9</p>	<p>WADETRIM                  500 Griswold, Suite 2500                  Detroit, MI 48226                  313.961.3650                  FAX: 313.961.0888                  www.wadetrिम.com</p>

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<p>JOB NO.                  DTE 2025-18T</p>	<p>REV. DATE DESCRIPTION</p>
<p>SHEET                  10</p>	<p>BY</p>



QUANTITIES		
5535	FT	Pavt Mrkg, Thermopl, 4 inch, Yellow
7210	FT	Pavt Mrkg, Thermopl, 4 inch, White
2	Ea	Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym
2	Ea	Pavt Mrkg, Ovly Cold Plastic, Only
60	FT	Pavt Mrkg, Ovly Cold Plastic, 18 inch, Stop Bar
6	Ea	Sign, Type III, Rem
8	Sft	Sign, Type IIIA
29	Sft	Sign, Type IIIB
146	Ft	Post, Steel, 3 lb

REV	DATE	DESCRIPTION	BY

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

**WADETRIM**  
 500 Griswold, Suite 2500  
 Detroit, MI 48226  
 313.961.3850  
 FAX: 313.961.0888  
 www.wadetrिम.com

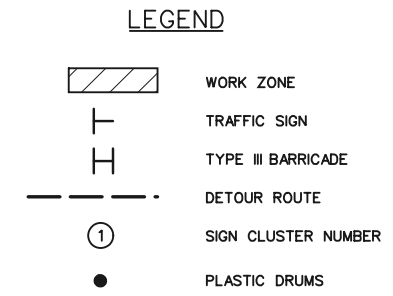
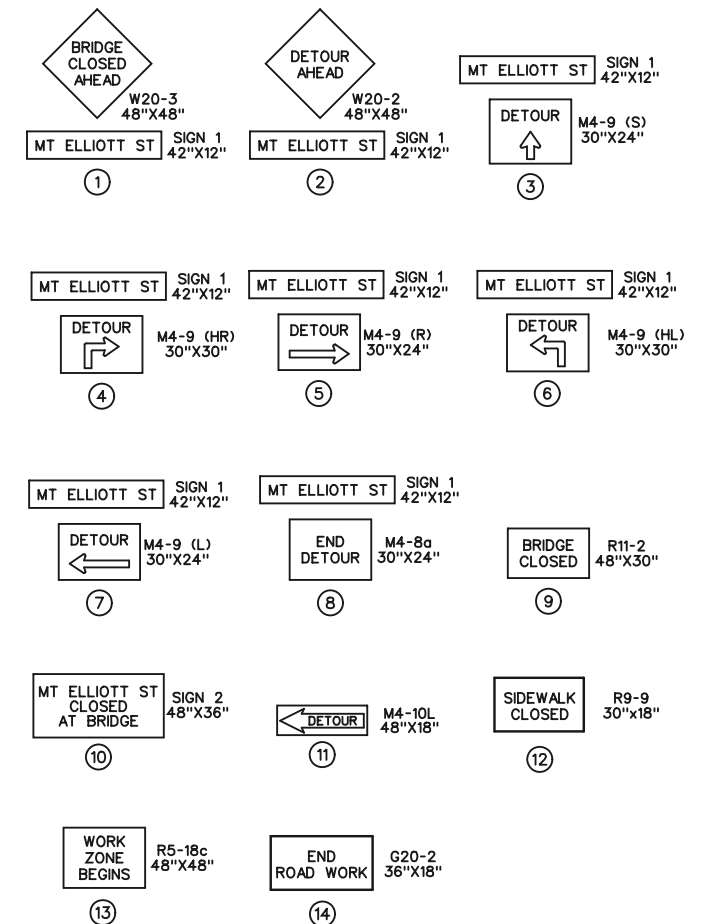
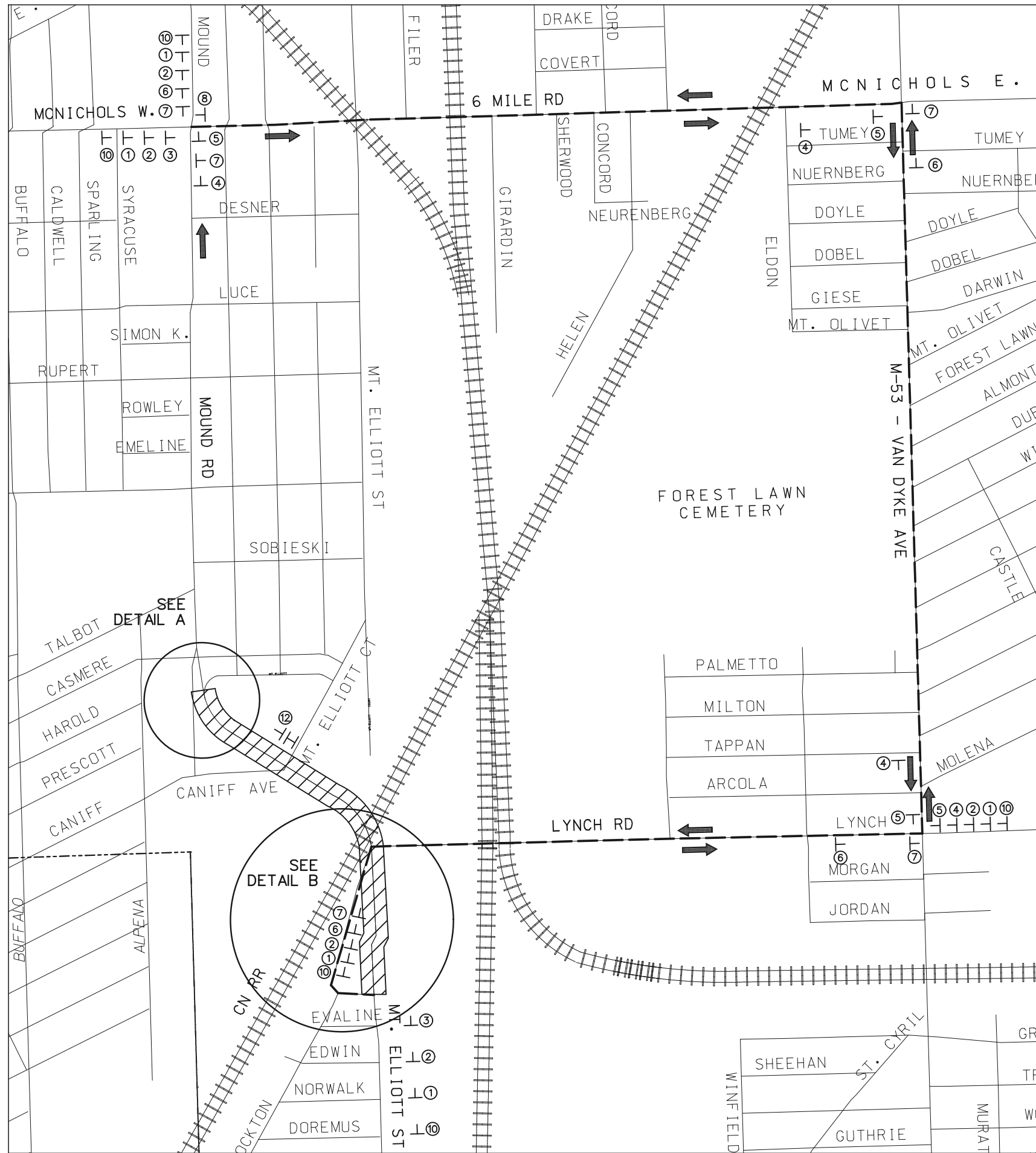
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CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERING DIVISION  
 MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF

ISSUED FOR: DATE: BY:  
 LETTING 9/15 RRB

JOB NO.  
 DTE 2025-18T

SHEET



NOTE: ON NORTHBOUND MT. ELLIOTT AT CANIFF, ADD SIGN CLUSTERS 1 & 10

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Detroit, MI 48226  
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FAX: 313.961.0888  
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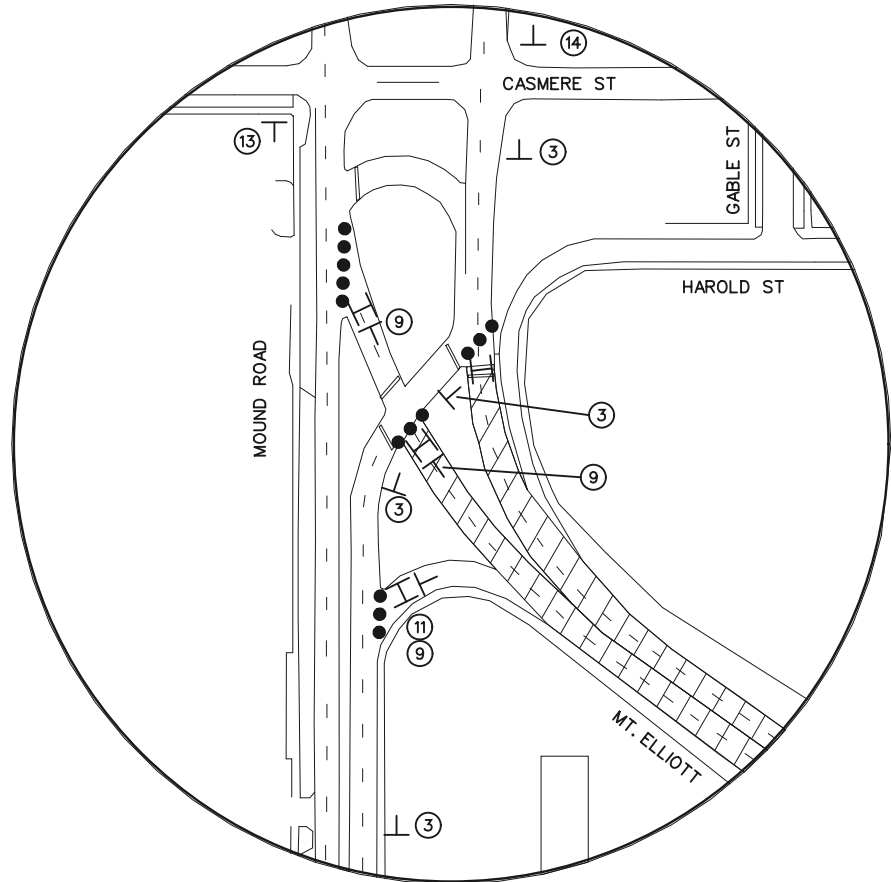
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CITY ENGINEERING DIVISION  
MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF  
TRAFFIC DETOUR PLAN

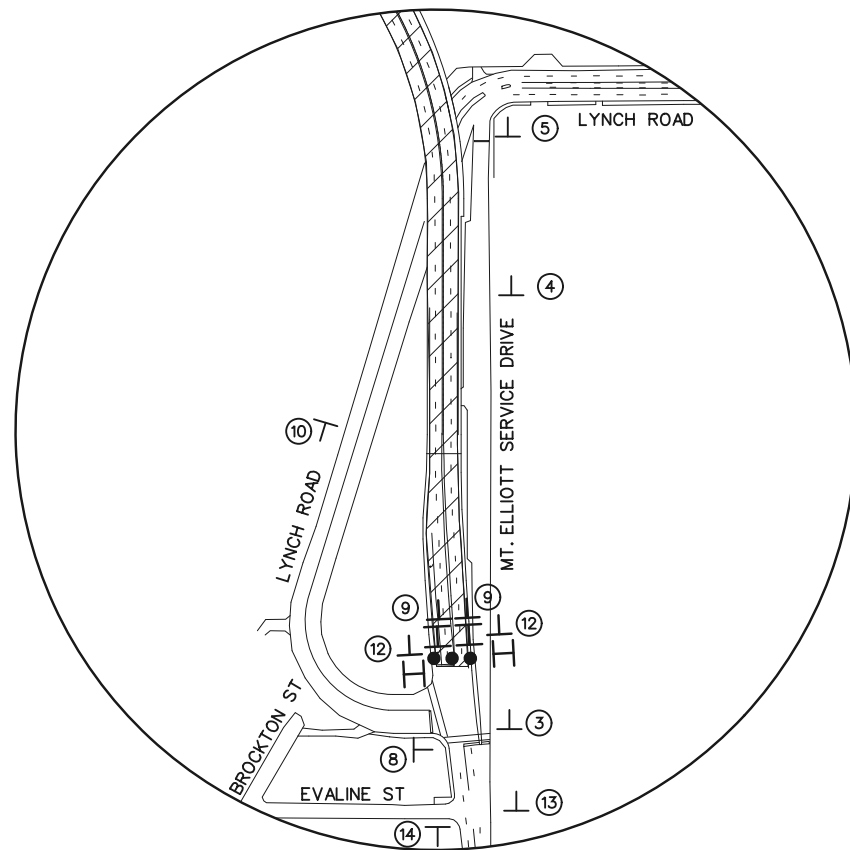
ISSUED FOR:	DATE:	BY:
LETTING	9/15	RRB

JOB NO.	DATE	BY
DTE 2025-18T		

SHEET 12



DETAIL A



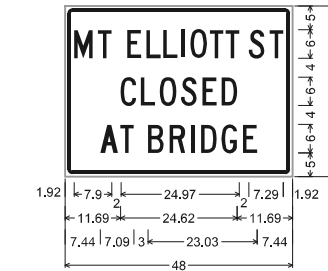
DETAIL B



D3-1:  
 1.50" Radius, 0.75" Border, 0.50" Indent, Black on Orange:  
 [MT] C 50% spacing;  
 [ELLIOTT] C 50% spacing;  
 [ST] C 50% spacing;  
 Table of widths and spaces.

2.86	M	3.25	0.42	T	2.50														
3.00	E	2.50	0.42	L	2.50	0.42	L	2.50	0.43	I	0.70	O	2.90	0.42	T	2.50	0.14	T	2.50
3.00	S	2.73	0.43	T	2.50	2.86													

SIGN 1 - DETAIL  
D3-1



1.50" Radius, 0.75" Border, 0.50" Indent, Black on Orange:  
 [MT] C; [ELLIOTT] C; [ST] C;  
 [CLOSED] C; [AT] C;  
 [BRIDGE] C;  
 Table of widths and spaces.

1.92	M	3.89	1.01	T	3.00															
2.00	E	3.00	1.01	L	3.00	1.02	L	3.00	1.01	0.84	1.27	3.47	1.01	3.00	0.34	T	3.00			
2.00	S	3.28	1.01	T	3.00	1.92														
11.69	C	3.28	L	3.00	1.01	3.47	1.02	S	3.28	1.26	E	3.00	1.01	D	3.28	11.69				
7.44	A	3.75	0.34	T	3.00															
3.00	B	3.28	1.26	R	3.28	1.27	I	0.84	1.26	D	3.28	1.02	G	3.28	1.26	E	7.44			

SIGN DETAIL 2

NOTES:

- ALL TEMPORARY CONSTRUCTION TRAFFIC APPURTENANCES, SUCH AS BARRICADES NECESSARY FOR CONSTRUCTION SHALL CONFORM TO THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ALL TEMPORARY CONSTRUCTION APPURTENANCES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. EXISTING SIGNS IN CONFLICTS WITH THE COVERED OR TEMPORARILY RESET OR REMOVED AND STOCKPILED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF DETROIT POLICE AND FIRE DEPARTMENTS IN WRITING A MINIMUM OF TEN WORKING DAYS PRIOR TO THE START OF CONSTRUCTION OR ANY ROAD CLOSURES.
- LOCAL STREETS ADJACENT TO THE CONSTRUCTION AREA SHALL NOT BE USED BY THE CONTRACTOR FOR EQUIPMENT AND MATERIAL STORAGE.
- PLACE ALL CONSTRUCTION SIGNS USED AT TYPE III BARRICADES ON THEIR OWN SUPPORT AND BEHIND AND ABOVE THE BARRICADES.
- ALL D3-1 SIGNS SHOULD BE FABRICATED ON ORANGE REFLECTIVE BACKGROUND WITH BLACK NON-REFLECTIVE LEGEND AND BORDER.
- THE CONTRACTOR SHALL NOTIFY RESIDENTS IN WRITING A MINIMUM OF TEN WORKING DAYS PRIOR TO PAVEMENT REMOVAL OR ANY PLANNED CONSTRUCTION THAT MAY LIMIT OR TEMPORARILY ELIMINATE ACCESS TO RESIDENTIAL PROPERTY.
- ALL CONSTRUCTION ACTIVITIES SHALL TAKE PLACE BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM MONDAY THROUGH SATURDAY. NO CONSTRUCTION ACTIVITIES, INCLUDING PAVEMENT SAW CUTTING WILL BE ALLOWED ON SUNDAYS AND MONDAY THROUGH SATURDAY BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. THE CONTRACTOR MAY REQUEST AN EXTENSION OF WORK HOURS. ANY EXTENSION OF WORK HOURS IS AT THE DISCRETION OF THE CITY OF DETROIT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE CITY OF DETROIT TO ALLOW RUBBISH COLLECTION DURING CONSTRUCTION ACTIVITIES.

QUANTITIES:

- 475 Sft Sign, Type B, Temp, Prismatic, Furn
- 475 Sft Sign, Type B, Temp, Prismatic, Oper
- 17 Ea Barricade, Type III, High Intensity, Lighted, Furn
- 17 Ea Barricade, Type III, High Intensity, Lighted, Oper
- 209 Sft Sign, Type B, Temp, Prismatic, Special, Furn
- 209 Sft Sign, Type B, Temp, Prismatic, Special, Oper
- 25 Ea Plastic Drum, High Intensity, Furn
- 25 Ea Plastic Drum, High Intensity, Oper
- 4 Ea Sign Cover

REV	DATE	DESCRIPTION	BY

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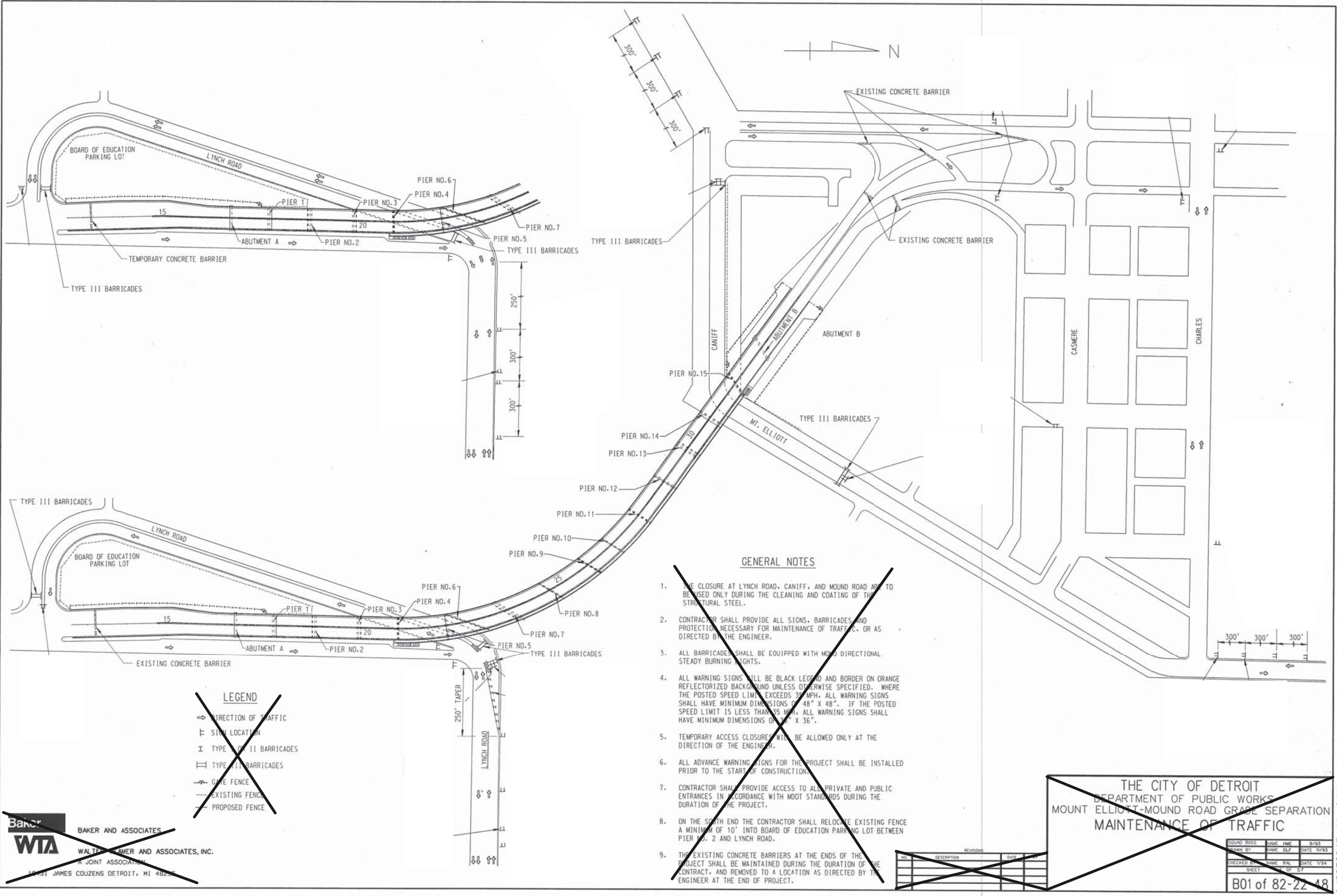
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 500 Griswold, Suite 2000  
 Detroit, MI 48226  
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CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERING DIVISION  
 MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF  
 TRAFFIC DETOUR SIGN DETAILS & NOTES

ISSUED FOR:	DATE:	BY:
LETTING	9/15	RRB
JOB NO.	DTE 2025-18T	
SHEET	13	

SHEET NO. 3  
JOB NO. 822248  
CONTROL SECTION B01 OF 822248



GENERAL NOTES

1. THE CLOSURE AT LYNCH ROAD, CANIFF, AND MOUND ROAD ARE TO BE USED ONLY DURING THE CLEANING AND COATING OF THE STRUCTURAL STEEL.
2. CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES AND PROTECTION NECESSARY FOR MAINTENANCE OF TRAFFIC, OR AS DIRECTED BY THE ENGINEER.
3. ALL BARRICADES SHALL BE EQUIPPED WITH MOUNTED DIRECTIONAL STEADY BURNING LIGHTS.
4. ALL WARNING SIGNS SHALL BE BLACK LETTER AND BORDER ON ORANGE REFLECTORIZED BACKGROUND UNLESS OTHERWISE SPECIFIED. WHERE THE POSTED SPEED LIMIT EXCEEDS 35 MPH, ALL WARNING SIGNS SHALL HAVE MINIMUM DIMENSIONS OF 48" X 48". IF THE POSTED SPEED LIMIT IS LESS THAN 35 MPH, ALL WARNING SIGNS SHALL HAVE MINIMUM DIMENSIONS OF 36" X 36".
5. TEMPORARY ACCESS CLOSURES WILL BE ALLOWED ONLY AT THE DIRECTION OF THE ENGINEER.
6. ALL ADVANCE WARNING SIGNS FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
7. CONTRACTOR SHALL PROVIDE ACCESS TO ALL PRIVATE AND PUBLIC ENTRANCES IN ACCORDANCE WITH MDOT STANDARDS DURING THE DURATION OF THE PROJECT.
8. ON THE SOUTH END THE CONTRACTOR SHALL RELOCATE EXISTING FENCE A MINIMUM OF 10' INTO BOARD OF EDUCATION PARKING LOT BETWEEN PIER NO. 2 AND LYNCH ROAD.
9. THE EXISTING CONCRETE BARRIERS AT THE ENDS OF THE PROJECT SHALL BE MAINTAINED DURING THE DURATION OF THE CONTRACT, AND REMOVED TO A LOCATION AS DIRECTED BY THE ENGINEER AT THE END OF PROJECT.

~~LEGEND~~

~~➔ DIRECTION OF TRAFFIC~~

~~⊥ SIGN LOCATION~~

~~I TYPE III BARRICADES~~

~~⊥ TYPE III BARRICADES~~

~~⊥ GATE FENCE~~

~~--- EXISTING FENCE~~

~~--- PROPOSED FENCE~~

**Baker**  
**WTA** BAKER AND ASSOCIATES  
WALTER J. BAKER AND ASSOCIATES, INC.  
A JOINT ASSOCIATION  
1631 JAMES COUZENS DETROIT, MI 48226

THE CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
MAINTENANCE OF TRAFFIC

DESIGNED BY	DATE	9/93
DRAWN BY	DATE	10/93
CHECKED BY	DATE	1/94
SHEET	OF	57
B01 of 82-22-48		

FOR INFORMATION ONLY  
DO NOT WORK FROM THIS SHEET. THE  
INFORMATION SHOWN IS FOR REFERENCE  
ONLY. NO PAY ITEMS ARE SHOWN.

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**WADETRIM**  
500 Griswold, Suite 2500  
Detroit, MI 48226  
313.961.3820  
FAX: 313.961.1088  
www.wadetrिम.com

CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERING DIVISION  
MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF  
EXISTING PLAN (FOR INFORMATION ONLY)

ISSUED FOR:	DATE:	BY:
LETTING	9/15	RRB

JOB NO. DTE 2025-18T  
SHEET 14

© Wade Trim Group, Inc. MT. ELLIOTT/MOUND BRIDGE (CPM)

REVISION	DATE

REV	DATE	DESCRIPTION	BY



CONTROL SECTION B01 OF 822248 JOB NO. 8

**BENCHMARKS**

PBM 51-253 MONUMENTS C MOUND AND N.P CANIFF.	ELEV. 152.13
PBM * MONUMENT LOCATED ON EAST SIDEWALK ON BRIDGE AT ABUTMENT A.	ELEV.
PBM * MONUMENT LOCATED ON WEST SIDEWALK ON BRIDGE AT ABUTMENT B.	ELEV.

\*NOT AVAILABLE TO BE REMOVED DURING CONSTRUCTION

**CURVE DATA C3**

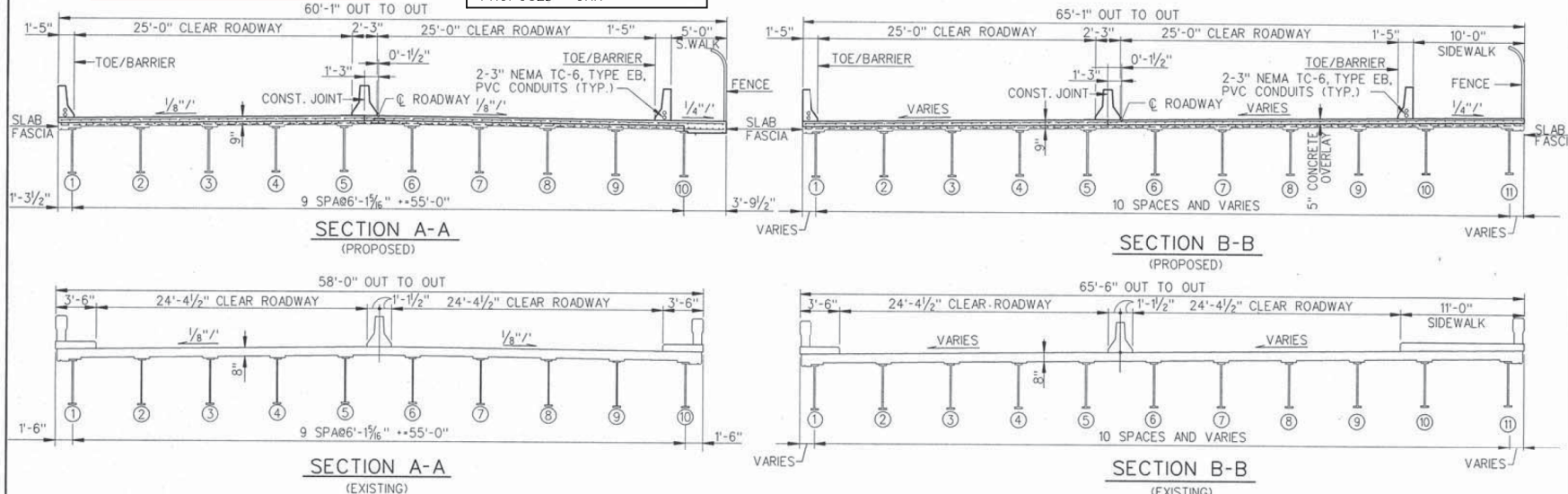
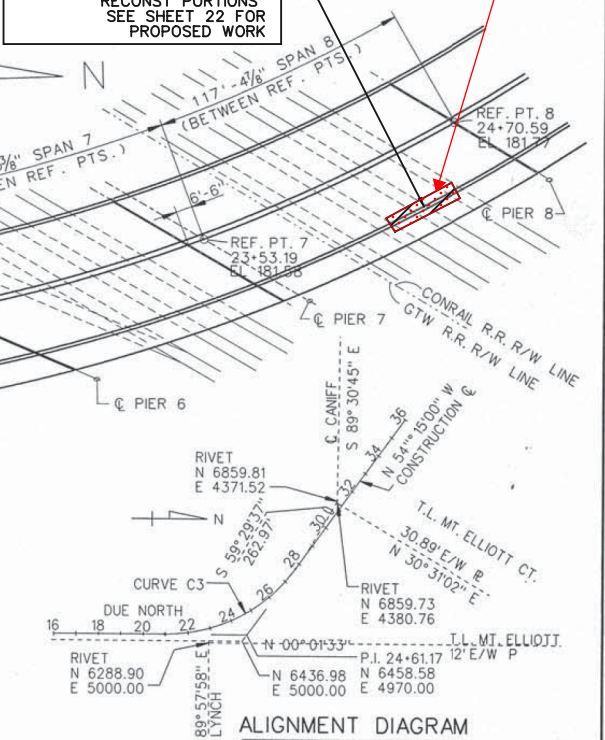
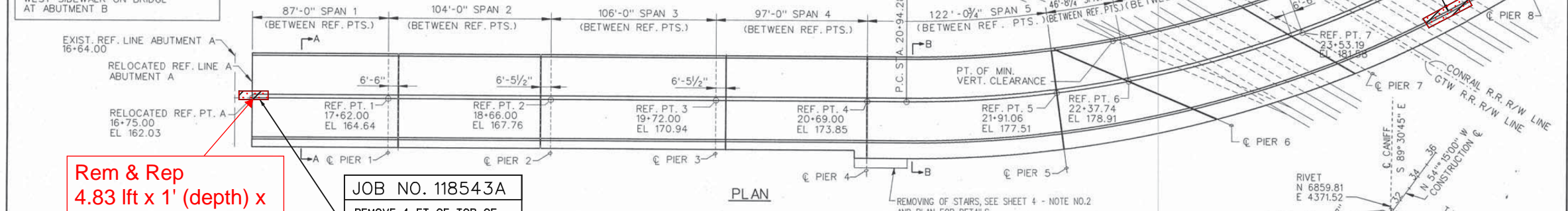
PI STA 24+61.17
Δ 54°15'00"
D 8°00'
R 716.20'
L 678.12'
T 366.89'
E 88.51'

Rem & Rep  
4.83 lft x 1' (depth) x  
0.94' (avg. width)  
16+73 to 16+77.83

JOB NO. 118543A  
REMOVE 25 FT OF BARRIER RAILING, TYPE 5. PAID FOR AS "BRIDGE BARRIER RAILING, RECONST PORTIONS" SEE SHEET 22 FOR PROPOSED WORK

Rem & Rep  
23 lft of existing Bridge Railing  
24+37.69 to 24+60.69

JOB NO. 118543A  
REMOVE 4 FT OF TOP OF BRIDGE MEDIAN BARRIER, PAID FOR AS "HAND CHIPPING, OTHER THAN DECK" SEE SHEET 22 FOR PROPOSED WORK



**NOTES:**

- FOR SECTION AT DECK JOINTS, SEE SHEETS 38 & 44 OF 57.
- FOR BARRIER DETAIL, SEE SHEETS 38 & 44 OF 57.
- CLEANING AND COATING OF ALL STRUCTURAL STEEL.
- THE TRAIN MOVEMENT AND SPEED INFORMATION SHOWN IN THE PROPOSAL DOES NOT REPRESENT A COMMITMENT BY THE GRAND TRUNK RAILROAD AND CONRAIL RAILROAD AND IS SUBJECT TO CHANGE WITHOUT NOTICE.
- THE DESIGN OF THIS STRUCTURE REHABILITATION IS BASED ON CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES HS20 AND ALTERNATE MILITARY LOADING. LIVE LOAD PLUS IMPACT DEFLECTION DOES NOT EXCEED 1/1000 OF SPAN LENGTH AND 1/375 OF CANTILEVER ARM. THE LOAD FACTOR METHOD OF DESIGN WAS USED FOR THIS STRUCTURE.
- THE TOP OF ROADWAY SLAB AND TOPS OF BARRIER WALLS ARE PARALLEL TO THE VERTICAL CURVE AND TANGENTS EXCEPT AS MODIFIED BY SUPER-ELEVATION TRANSITION.
- THIS STRUCTURE IS PARTLY ON A HORIZONTAL CURVE. THE FASCIA LINES, BARRIER LINES, MEDIAN, AND LONGITUDINAL CONSTRUCTION JOINT ARE PARALLEL TO THE CURVE AND TANGENT.
- THE MAXIMUM FOUNDATION PRESSURES ARE CALCULATED TO BE:  
AVG. D.L. ONLY CASE      AVG. D.L.-L.L. CASE  
ABUTMENTS      3000 PSF      3500 PSF
- ANY FORMING, FINISHING, AND CURING OF SUPERSTRUCTURE CONCRETE OTHER THAN SPAN 16, WILL BE INCLUDED IN THE COST FOR SPAN 16.

**NOTES:**  
THE WORK COVERED BY THESE PLANS INCLUDES REMOVAL OF EXISTING BARRIER WALLS, MEDIAN, DECK, LIGHTING, DECK JOINTS, AND HYDRODEMOLISHING THE DECK SLAB A DEPTH OF 1" ± BELOW THE BOTTOM OF THE TOP MAT OF STEEL. REMOVAL OF TOP MAT OF REINFORCEMENT; REMOVAL OF CONCRETE SLAB IN SPAN 16; REMOVAL OF STAIRWAYS; PLACEMENT OF NEW DECK JOINTS, 5" ± CONCRETE OVERLAY WITH EPOXY-COATED REINFORCEMENT FOR A FINAL SLAB THICKNESS OF 9"; TYPE 5 BARRIER WALLS AND MEDIAN; CLEANING AND COATING OF ALL STRUCTURAL STEEL; REPAIRS TO PIERS 1 TO 15 AND ABUTMENTS AT EACH END OF THE BRIDGE.  
REMOVAL OF BUILDINGS IS NOT A PART OF THIS CONTRACT.  
THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.  
DATUM REFERS TO DETROIT CITY DATUM.  
FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL DIAL 800-482-7171 A MINIMUM 3 WORKING DAYS PRIOR TO EXCAVATION IN THE VICINITY OF UTILITIES LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.  
CARE SHALL BE TAKEN SO THAT REMOVED MATERIAL DOES NOT FALL FROM THE STRUCTURE.  
ALL WORK DONE WITHIN THE RAILROAD R.O.W. MUST BE COORDINATED WITH THE RAILROAD.  
FOR 2" ± HIGH PRESSURE GAS MAIN SEE SHEET 4.  
AT LOCATION OF TYPE 5 BARRIER WALLS, AND MEDIAN BARRIER WALL THE DEPTH OF HYDRODEMOLISHING SHALL BE 4" ± FROM EXISTING TOP OF SLAB.

THE CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
GENERAL PLAN OF STRUCTURE

NO.	REVISIONS	DATE

DR	NAME	DATE	10/93
CHECKED BY		DATE	10/93
SHEET			57

**BAKER AND ASSOCIATES**  
**WTA** WALTER TANNER AND ASSOCIATES, INC.  
A JOINT ASSOCIATION  
18431 JAMES COUZENS DETROIT, MI 48235

JOB NO. 118543A  
ONLY THE HATCHED AREAS, AND NOTES IN BOXES INDICATING REMOVALS, ARE TO BE USED FOR BIDDING PURPOSES.

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**WADETRIM**  
500 Griswold, Suite 2000  
Detroit, MI 48226  
313.981.3850  
FAX: 313.981.0888  
www.wadetrिम.com

CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERING DIVISION  
MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF  
EXISTING PLAN 1 (REM)

ISSUED FOR: DATE: BY:  
LETTING 9/15 RRB

JOB NO.  
DTE 2025-18T

SHEET  
16

JOB NO. 118543A  
DATE

DESCRIPTION

BY

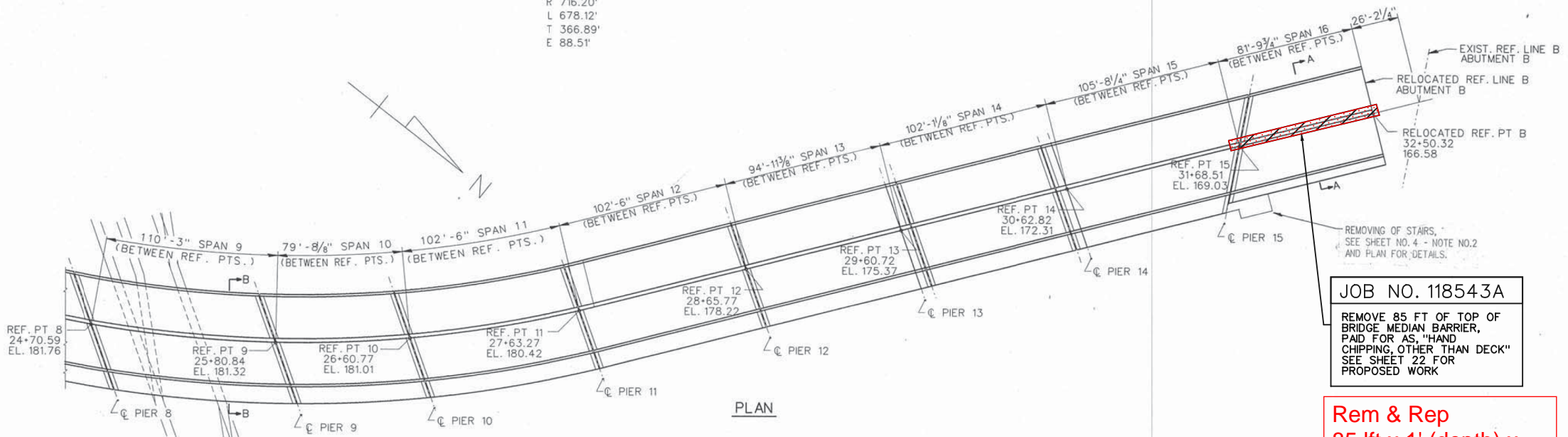
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**CURVE DATA C3**

PI STA 24+61.17  
 Δ 54° 15' 00"  
 D 8° 00"  
 R 716.20'  
 L 678.12'  
 T 366.89'  
 E 88.51'

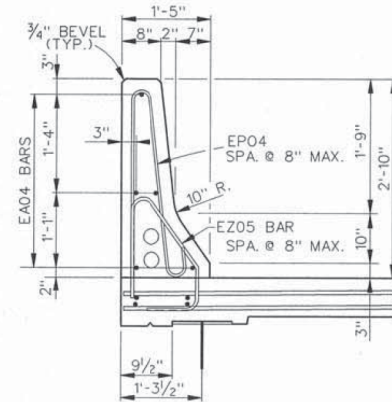
CONTROL SECTION B01 OF 822248 JOB NO. 9



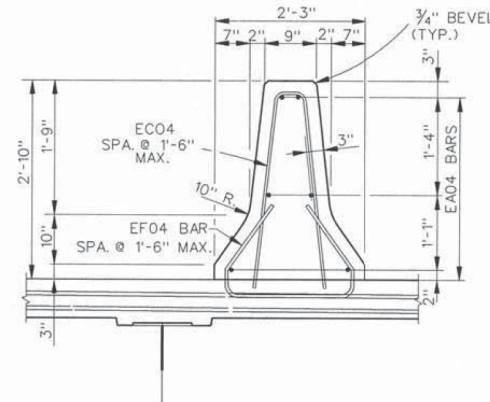
PLAN

**JOB NO. 118543A**  
 REMOVE 85 FT OF TOP OF  
 BRIDGE MEDIAN BARRIER,  
 PAID FOR AS "HAND  
 CHIPPING, OTHER THAN DECK"  
 SEE SHEET 22 FOR  
 PROPOSED WORK

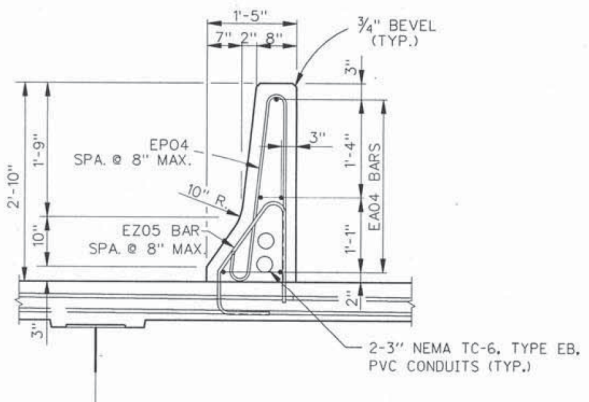
**Rem & Rep**  
 85 ft x 1' (depth) x  
 0.94' (avg. width)



TYPICAL BARRIER SECTION



TYPICAL MEDIAN BARRIER SECTION



TYPICAL BARRIER SECTION  
 AT SIDEWALK

~~NOTES:  
 FOR SECTIONS A-A AND B-B, SEE SHEET 8.~~

~~BAKER AND ASSOCIATES  
 WIA  
 WALKER, STEAMER AND ASSOCIATES, INC.  
 A JOINT ASSOCIATION  
 1431 JAMES COUZENS DETROIT, MI 48206~~

THE CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
 GENERAL PLAN OF STRUCTURE

NO.	DESCRIPTION	REVISIONS	DATE

NO.	DATE	BY

**JOB NO. 118543A**  
 ONLY THE HATCHED AREAS, AND NOTES  
 IN BOXES INDICATING REMOVALS, ARE  
 TO BE USED FOR BIDDING PURPOSES.

NO.	DATE	REV.	DESCRIPTION	BY

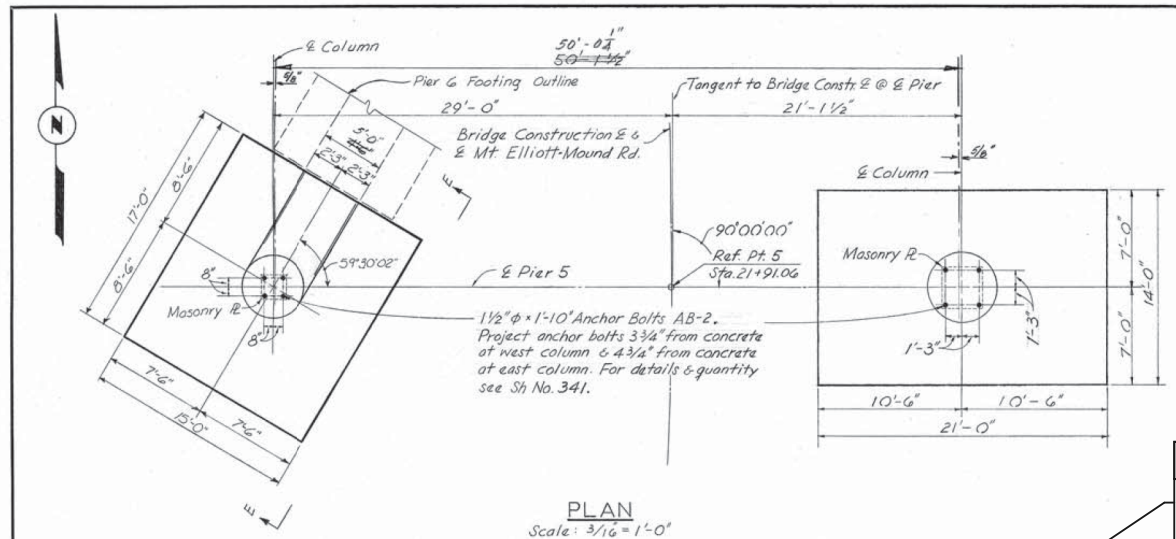
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 Detroit, MI 48226  
 313.961.3850  
 FAX: 313.961.0888  
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 CITY ENGINEERING DIVISION  
 MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF  
 EXISTING PLAN 2 (REM)

ISSUED FOR: DATE: BY:  
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JOB NO.  
 DTE 2025-18T

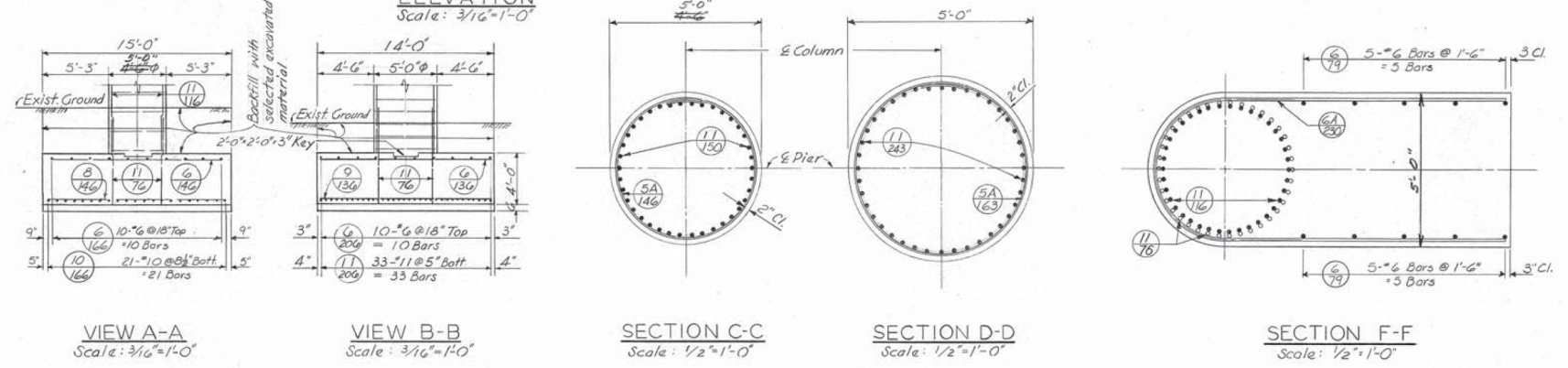
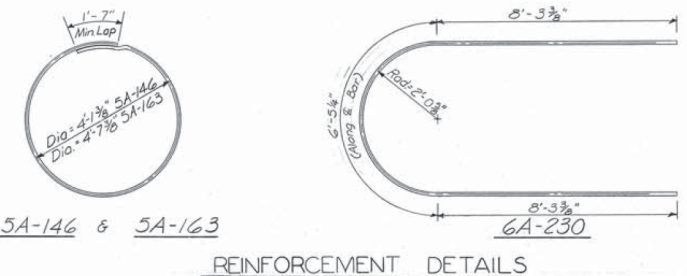
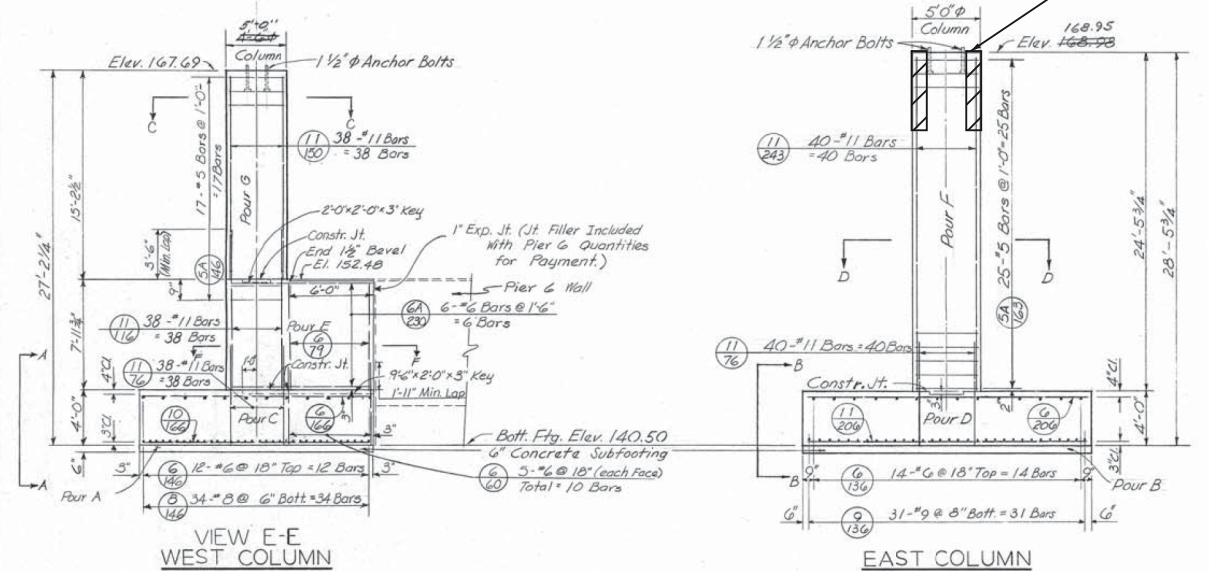
SHEET  
 17



MARK	SIZE	LENGTH	NO. OF BARS	REMARKS
5A-146	#5	14'-6"	17	Bent
5A-163	#5	16'-3"	25	Bent
6-60	#6	6'-0"	10	Str.
6-79	#6	7'-9"	10	Str.
6-136	#6	13'-6"	12	Str.
6-146	#6	14'-6"	14	Str.
6-166	#6	16'-6"	10	Str.
6-206	#6	20'-6"	10	Str.
6A-230	#6	8'-3 1/2"	6	Bent
8-146	#8	14'-6"	34	Str.
9-136	#9	13'-6"	31	Str.
10-166	#10	16'-6"	8	Str.
11-76	#11	7'-6"	78	Str.
11-116	#11	11'-6"	38	Str.
11-136	#11	15'-0"	38	Str.
11-206	#11	20'-6"	33	Str.
11-243	#11	24'-3"	40	Str.

POUR	LOCATION	CU. YD.
A	Subfooting	4.7
B	Subfooting	5.4
C	Footings	37.8
D	Footings	43.5
E	Column & Wall	13.7
F	Column	7.8
G	Column	9.1

ITEM	TOTAL	UNITS
Grade A (10 B Gravel or 10 B Slag) Concrete-Substructure	131.9	Cu. Yds.
Steel Reinforcement	23,632	Lbs.
Rubbed Surface Finish	724	Sq. Ft.
Heating & Housing Substructure Concrete	161.8	Cu. Yds.
Protective Sealant Coating for Structural Concrete	36	Sq. Ft.



NOTES  
For General Notes on Reinforced Concrete see Sh. No. 308.

As Built 9-16-71 E.M.B./LTM

REVISIONS

WAYNE COUNTY ROAD COMMISSIONERS

BOARD OF DETROIT, MICHIGAN

HAZLET & ERDAL CONSULTING ENGINEERS

MOUNT ELLIOTT-MOUND RD. GRADE SEPARATION PIER 5

STATE PROJECT ROAD

STATE PROJECT COUNTY

ISSUE NO. 1 SHEET NO. 317

DATE 5-13-68 H & E FILE NO. 665

JOB NO. 118543A

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CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERING DIVISION  
MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF  
EXISTING PLAN 3 (REM)

ISSUED FOR: DATE: BY:  
LETTING 9/15 RRB

JOB NO. DTE 2025-18T

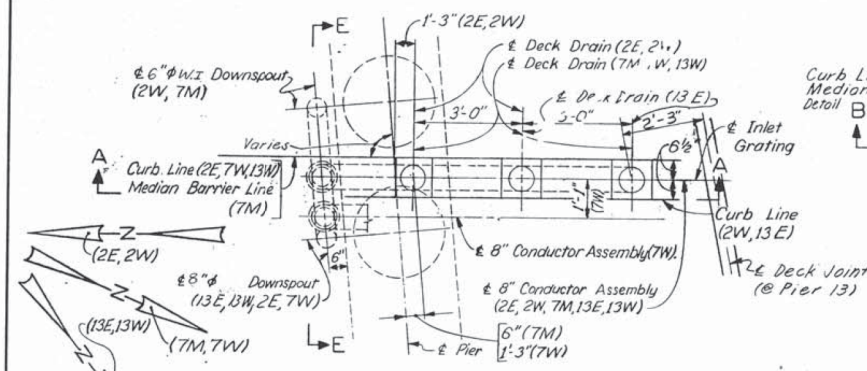
SHEET 18

PROJECT MANAGER: RBREEN  
FIELD BOOK INFORMATION: -  
C:\pwworking\mhc018\0556288\CSP-PL 13-Exp\form3.dgn

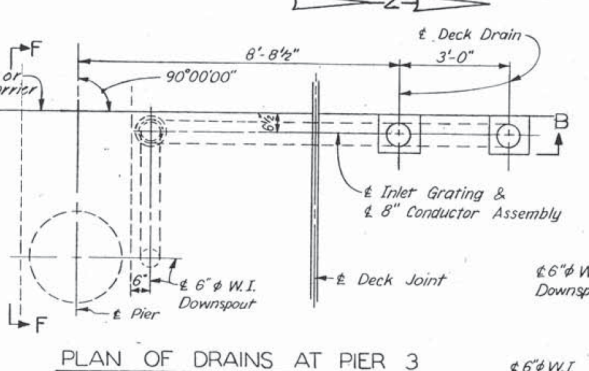
PLOTTED 9/29/2015 11:26:15 AM BY: Mincalls

PROJECT MANAGER: RBREEN  
 FIELD BOOK INFORMATION: C:\pwworking\mnic018\30555283\CSP-PL13-Explanatory.dgn  
 PLOTTED 9/29/2015 11:25:24 AM BY: Mnic018

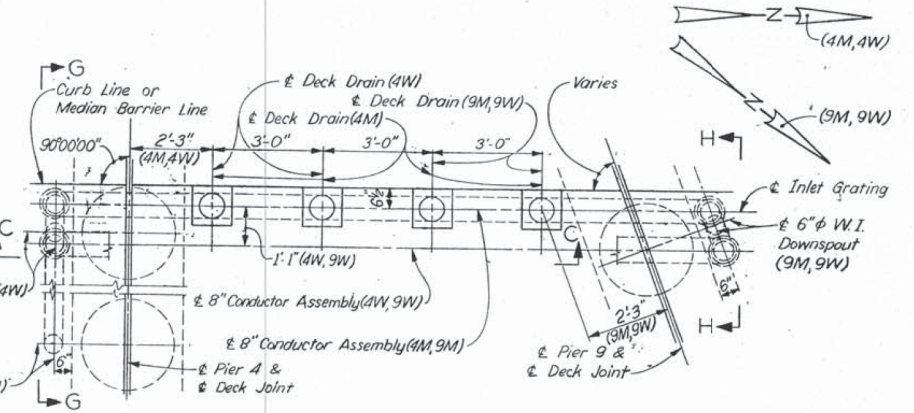
CONTRACT SECTION B01 OF 822248  
 SHEET NO. 26



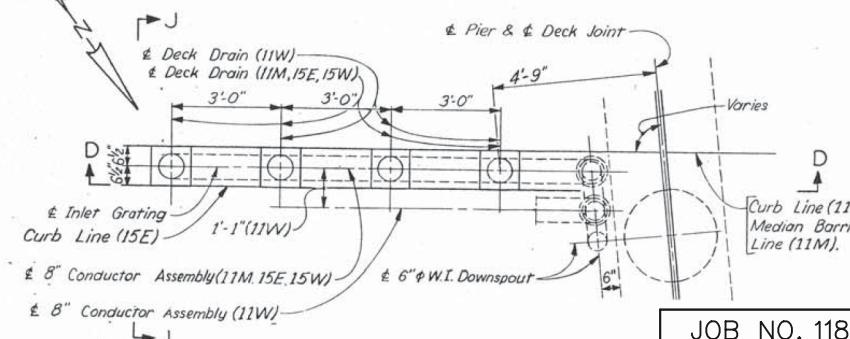
PLAN OF DRAINS AT PIERS 2, 7, & 13



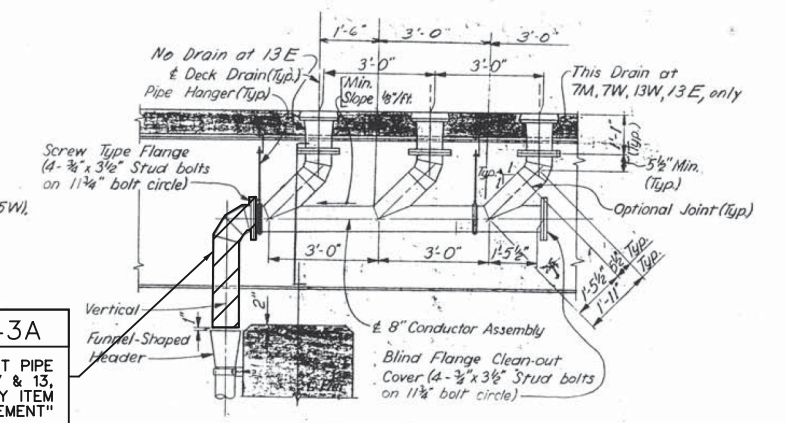
PLAN OF DRAINS AT PIER 3



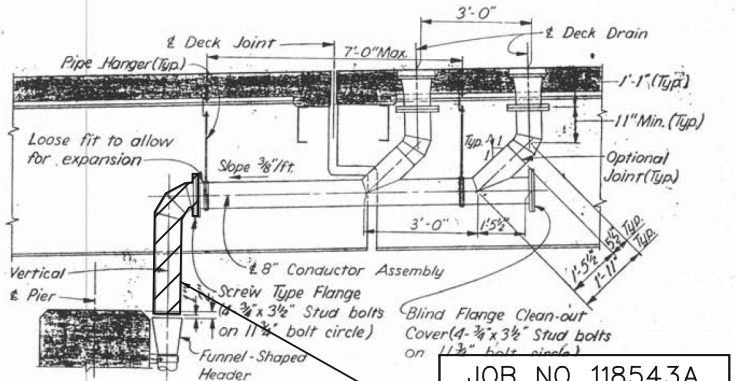
PLAN OF DRAINS AT PIERS 4 & 9



PLAN OF DRAINS AT PIERS 11 & 15



SECTION A-A  
(Shown for Pier 7)

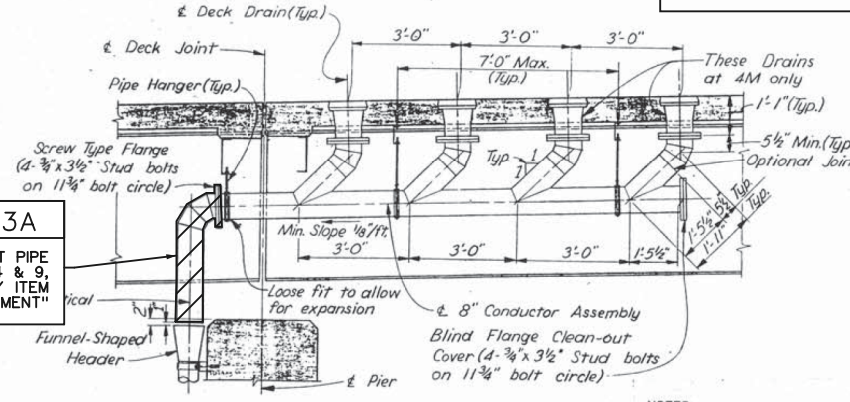


SECTION B-B

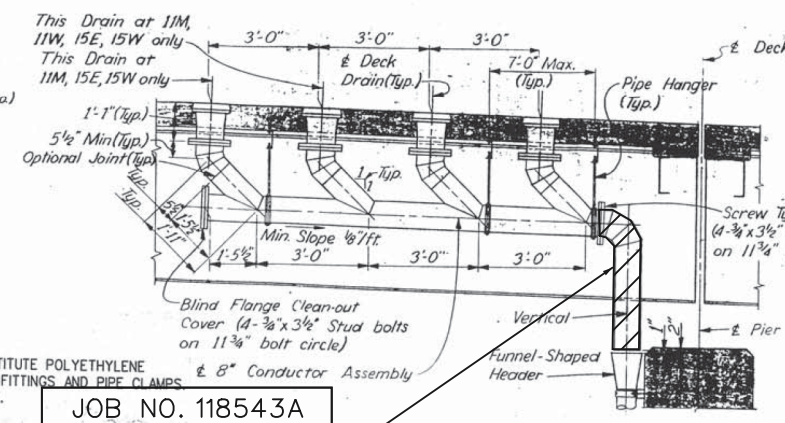
**JOB NO. 118543A**  
 REMOVE DOWNSPOUT PIPE AT PIERS 4 & 9, INCLUDED IN PAY ITEM "DOWNSPOUT REPLACEMENT"

**JOB NO. 118543A**  
 REMOVE DOWNSPOUT PIPE AT PIER 2, 7 & 13, INCLUDED IN PAY ITEM "DOWNSPOUT REPLACEMENT"

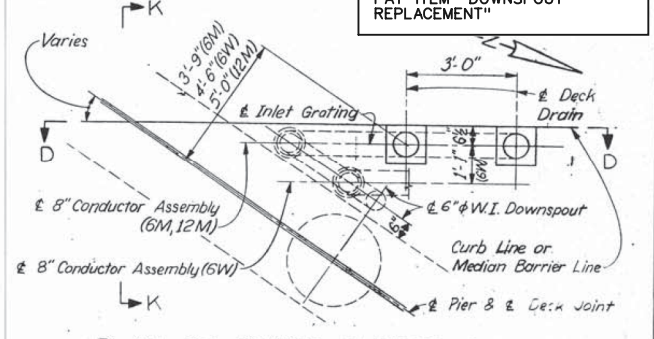
**JOB NO. 118543A**  
 REMOVE DOWNSPOUT PIPE AT PIER 3, INCLUDED IN PAY ITEM "DOWNSPOUT REPLACEMENT"



SECTION C-C  
(Shown for Pier 4)



SECTION D-D



PLAN OF DRAINS AT PIERS 6 & 12

**Baker**  
**WTA**  
 BAKER AND ASSOCIATES  
 WALTER T. WEAVER AND ASSOCIATES, INC.  
 A JOINT ASSOCIATION  
 18431 JAMES COUZENS DETROIT, MI 48235

NOTES:  
 WROUGHT IRON PIPE SHOWN, SUBSTITUTE POLYETHYLENE (SCHEDULE 40) PLASTIC PIPE AND FITTINGS AND PIPE CLAMPS.  
 WORK THIS SHEET WITH SHEET 27.

**JOB NO. 118543A**  
 REMOVE DOWNSPOUT PIPE AT PIERS, 11 & 15, INCLUDED IN PAY ITEM "DOWNSPOUT REPLACEMENT"

THE CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
 DRAIN DETAILS

NO.	DESCRIPTION	DATE

NO.	DATE	BY

B01 of 82-22-48

**JOB NO. 118543A**  
 ONLY THE HATCHED AREAS, AND NOTES IN BOXES INDICATING REMOVALS, ARE TO BE USED FOR BIDDING PURPOSES.

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 Detroit, MI 48226  
 313.961.3850  
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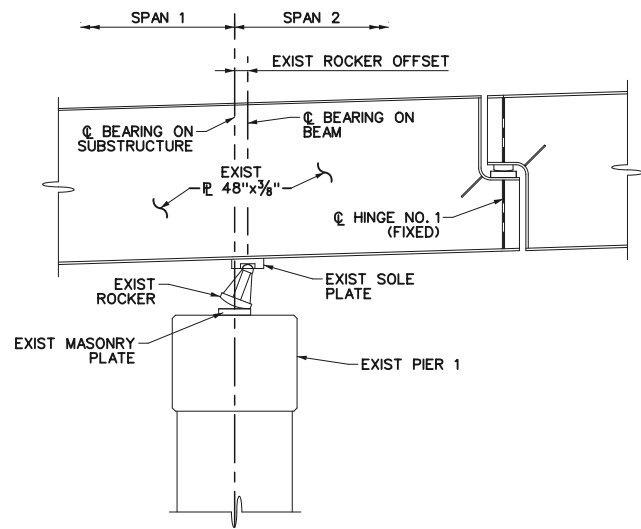
CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERING DIVISION  
 MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF  
 EXISTING PLAN 4 (REM)

ISSUED FOR: DATE: BY:  
 LETTING 9/15 RRB

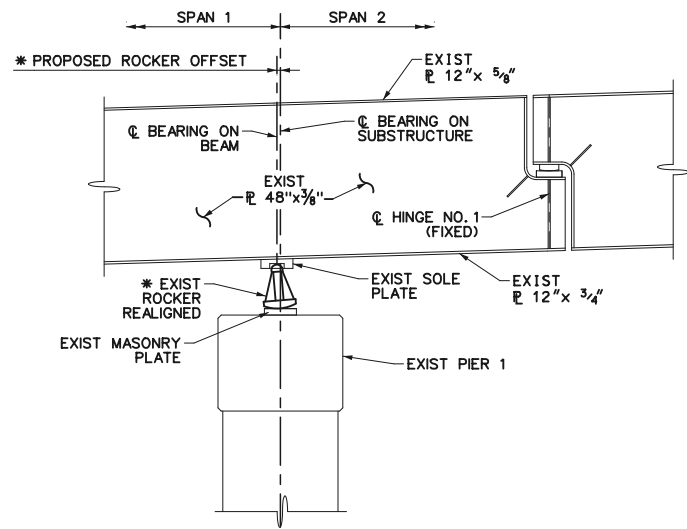
JOB NO. DTE 2025-18T  
 SHEET 19

MT. ELLIOTT/MOUND BRIDGE (CPM)

PROJECT MANAGER: RBREEN FIELD BOOK INFORMATION: C:\pwwork\mnicoll\3055528\CDP-PL13-RockerRealign.dgn PLOTTED 9/29/2015 11:25:35 AM BY: Mnicoll



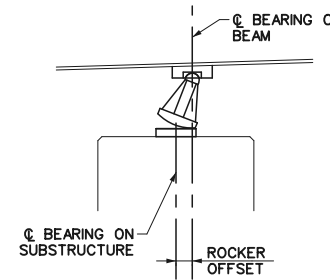
**EXISTING ELEVATION**  
(SHOWING EXISTING ROCKER TILT)



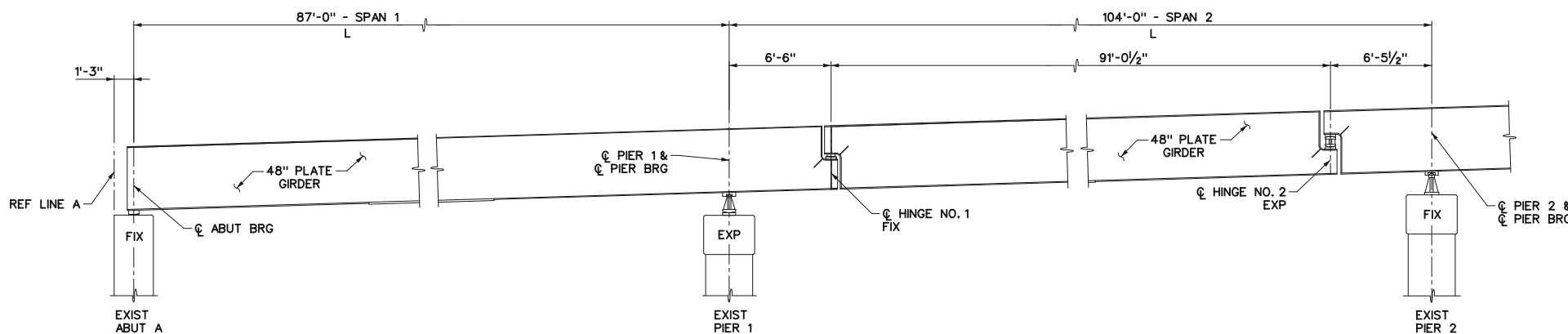
**PROPOSED ELEVATION**

\* THE CONTRACTOR SHALL DETERMINE THE CORRECT ROCKER OFFSET USING THE ROCKER TILT TABLE PROVIDED, INCLUDED IN THE PAY ITEM "ROCKER, REALIGN".

ROCKER TILT TABLE		L - DISTANCE TO FIXED BEARINGS				
		400'	300'	200'	100'	
N - TOP OF ROCKER TILTED TOWARD FIXED BEARING.	55° or 65°					
	50° or 70°					
	45° or 75°					
	40° or 80°					
	35° or 85°					
	30° or 90°					
	25° or 95°					
	20° or 100°					
	P - TOP OF ROCKER TILTED AWAY FIXED BEARING.	55° or 65°				
		50° or 70°				
45° or 75°						
40° or 80°						
35° or 85°						
30° or 90°						
25° or 95°						
20° or 100°						
		OFFSETS (TYP.)				
		1"	3/8"	3/4"	1/2"	



THE SPAN LENGTH DIMENSIONS SHOWN ON THE PLANS ASSUME A TEMPERATURE OF 60°F WHEN BEAMS ARE ERECTED. THE BEAMS WILL BE LONGER IF THE TEMPERATURE IS HIGHER, AND SHORTER IF COLDER, WITH THE ROCKERS TILTED AT THE TIME OF ERECTION. IT MAY BE NECESSARY TO ADJUST THE MASONRY PLATE TO ACHIEVE THE PROPER OFFSETS.



**OFFSET DIMENSIONS FOR ROCKER TILT**

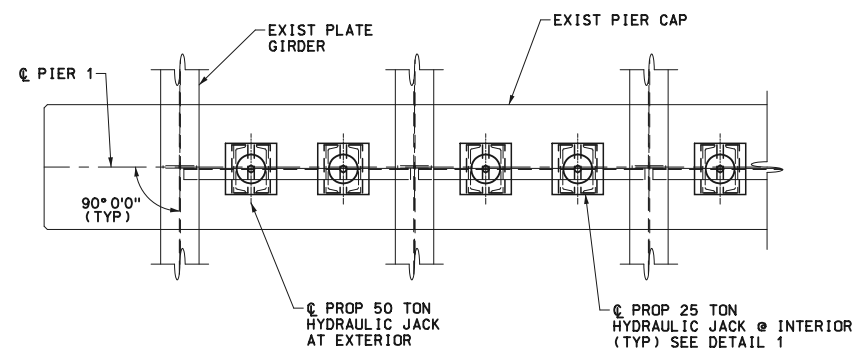
MISCELLANEOUS QUANTITIES	
10 EA	ROCKER REALIGN

**NOTES:**

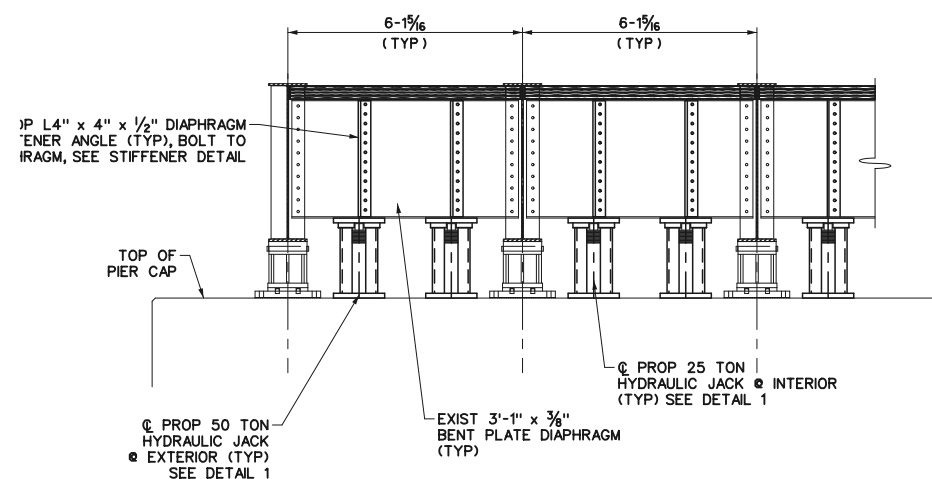
- THE ENGINEER WILL DETERMINE WHICH ROCKERS TO BE REALIGNED ON PIER 1 AT THE TIME OF CONSTRUCTION.
- WELDING ON EXISTING BEAMS WILL NOT BE PERMITTED (EXCEPT AS NOTED).
- THE ROCKER BEARINGS SHALL NOT BE STRAIGHTENED WHILE SUPPORTING ANY TRAFFIC LOADING.
- THE CONTRACTOR SHALL STAGE HIS WORK SUCH THAT THEY WORK ON EVERY OTHER ROCKER BEARING.
- ALTERNATE DESIGNS OF THE TEMPORARY SUPPORTS SHALL BE BASED ON THE FOLLOWING LOADS: 25 TON VERTICAL LOAD (DL ONLY)
- SEE TEMPORARY SUPPORT DETAILS FOR JACKING DETAILS.

ISSUED FOR: LETTING	DATE: 9/15	BY: RRB
JOB NO. DTE 2025-18T	SHEET 20	
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<p>CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION MT. ELLIOTT/MOUND RD OVER CN RR &amp; CANIFF ROCKER REALIGNMENT DETAILS</p>		
<p>NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED: <b>WADE TRIM</b> 500 Griswold - Suite 2500 Detroit, MI 48226 PHONE: 313.961.3850 FAX: 313.961.0888 www.wadetrिम.com</p>		
REV #	DATE	DESCRIPTION

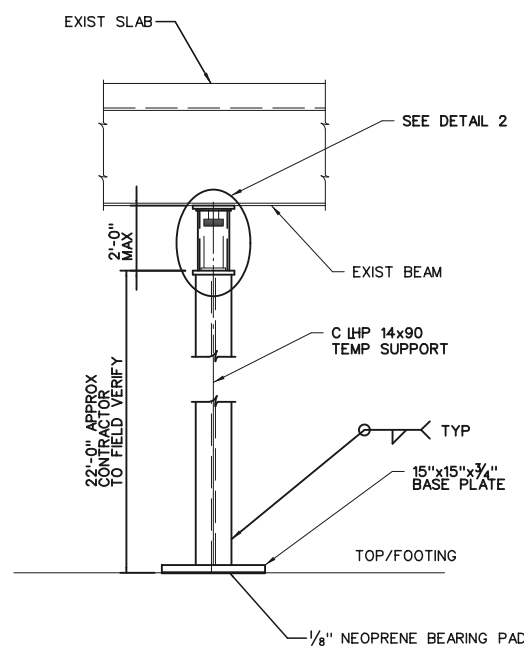
PROJECT MANAGER: RBREEN  
 FIELD BOOK INFORMATION: -  
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 PLOTTED 9/29/2015 11:25:36 AM BY: Micolis



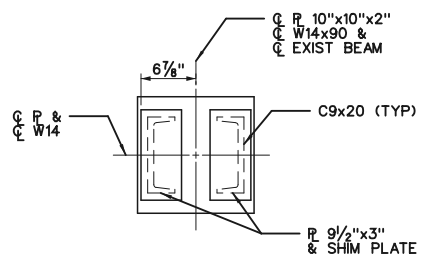
TEMPORARY SUPPORT PLAN  
AT PIER 1



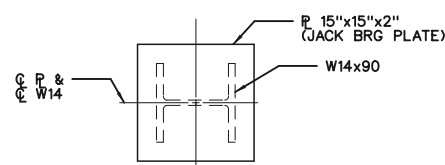
TEMPORARY SUPPORT ELEVATION  
AT PIER 1



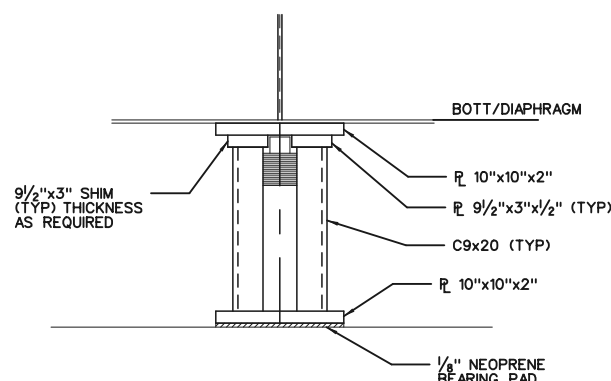
TEMPORARY COLUMN SUPPORT  
(TYP FOR 2 @ PIER 5)



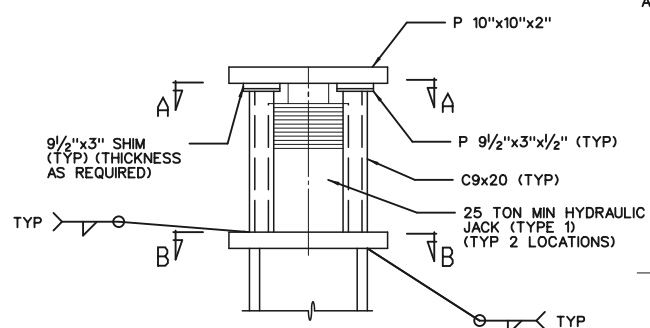
SECTION A-A



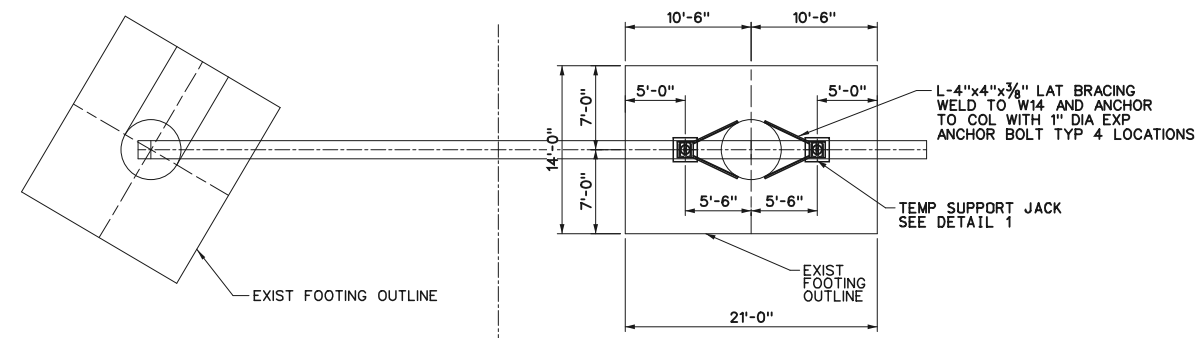
SECTION B-B



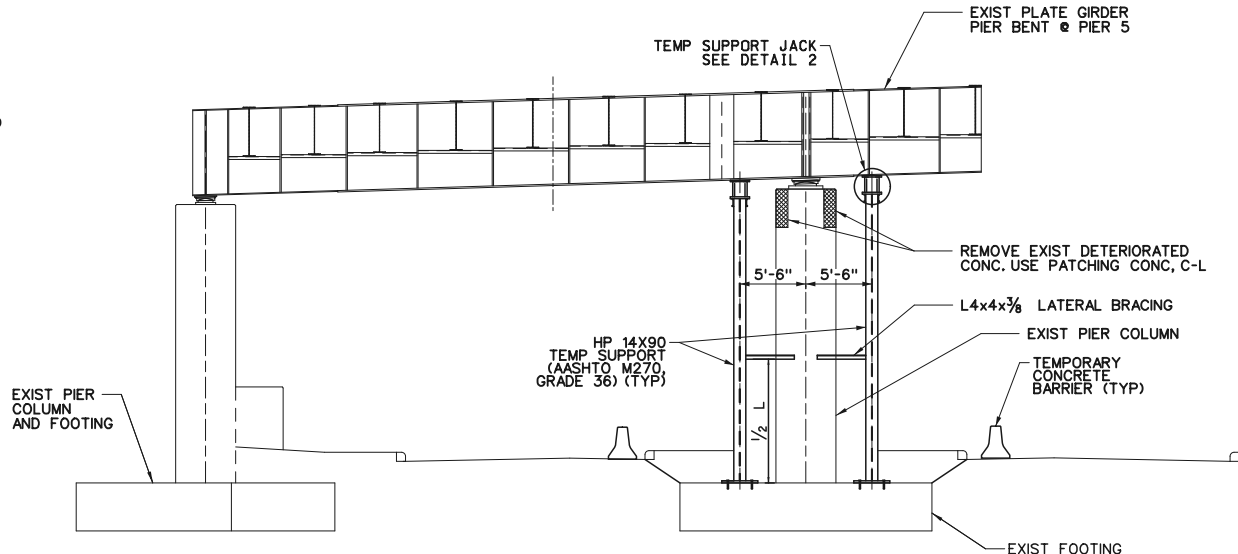
DETAIL 1



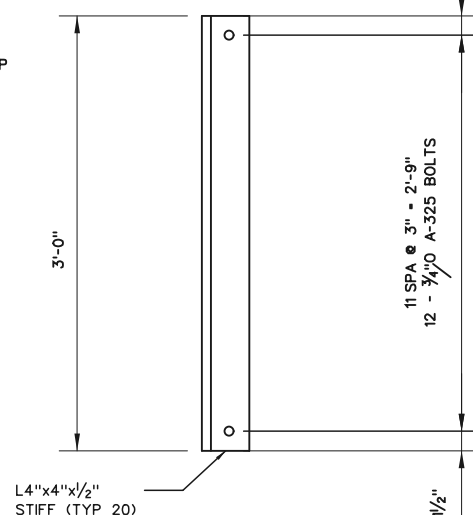
DETAIL 2



TEMPORARY SUPPORT PLAN  
AT PIER 5



TEMPORARY SUPPORT ELEVATION  
AT PIER 5



STIFFENER DETAIL

(INCLUDED IN PAY ITEM "SUPPORT, DIAPHRAGM, TEMP")

MISCELLANEOUS QUANTITIES		
20	EA	SUPPORT, DIAPHRAGM, TEMP
2	EA	SUPPORT, COLUMN, TEMP
100	FT	CONC BARRIER, TEMP, FURN
100	FT	CONC BARRIER, TEMP, OPER
15	CYD	PATCHING CONC, C-L
25	CFT	HAND CHIPPING, OTHER THAN DECK
50	SFT	PATCH, FORMING

REV	DATE	DESCRIPTION	BY

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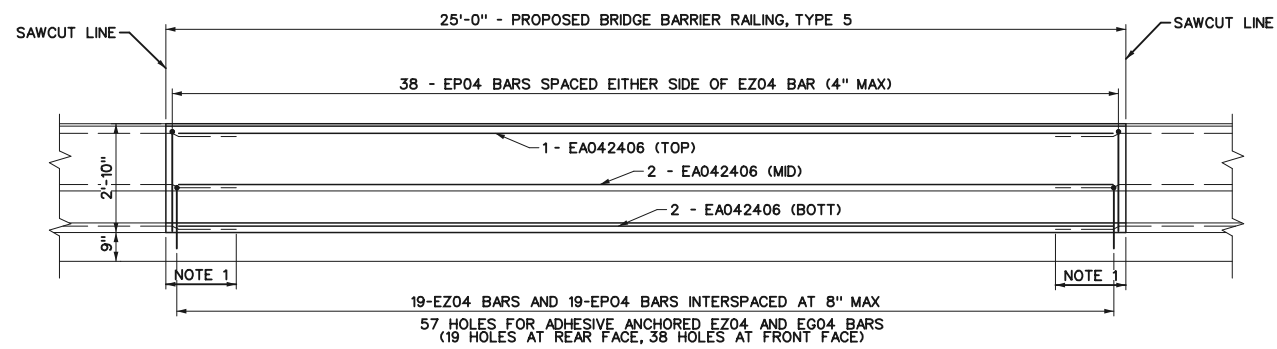
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 CITY ENGINEERING DIVISION  
 MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF  
 TEMPORARY SUPPORT DETAILS

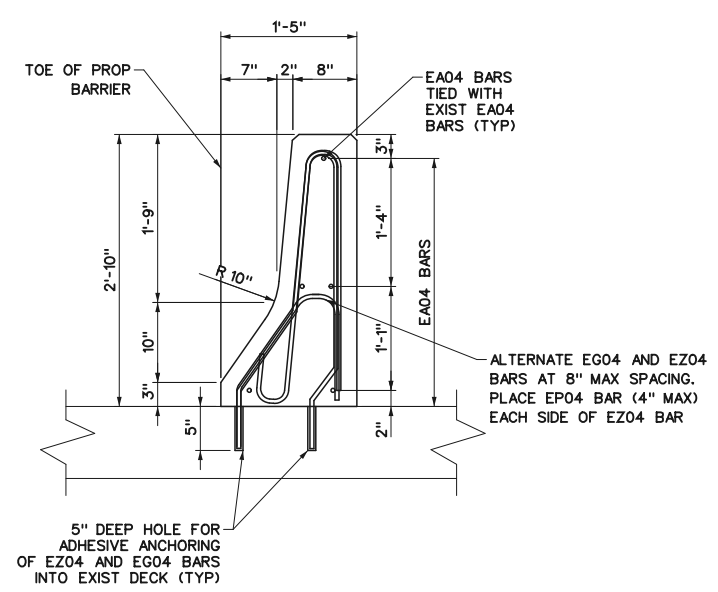
ISSUED FOR: LETTING	DATE: 9/15	BY: RRB
JOB NO. DTE 2025-18T	SHEET	
21		

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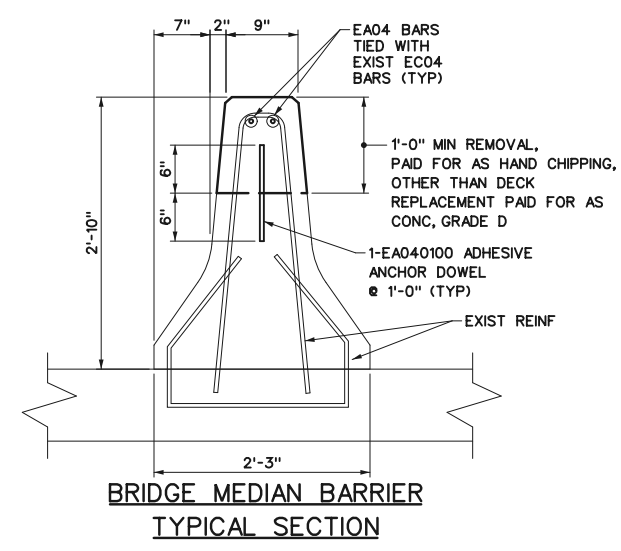
PROJECT MANAGER: RBREEN FIELD BOOK INFORMATION: - PLOTTED 9/29/2015 11:25:37 AM BY: Mincolla



**PROPOSED ELEVATION  
BRIDGE BARRIER RAILING, TYPE 5**  
SPAN 8 - EAST RAILING ONLY



**TYPICAL BARRIER SECTION  
BRIDGE BARRIER RAILING, TYPE 5**



**BRIDGE MEDIAN BARRIER  
TYPICAL SECTION**

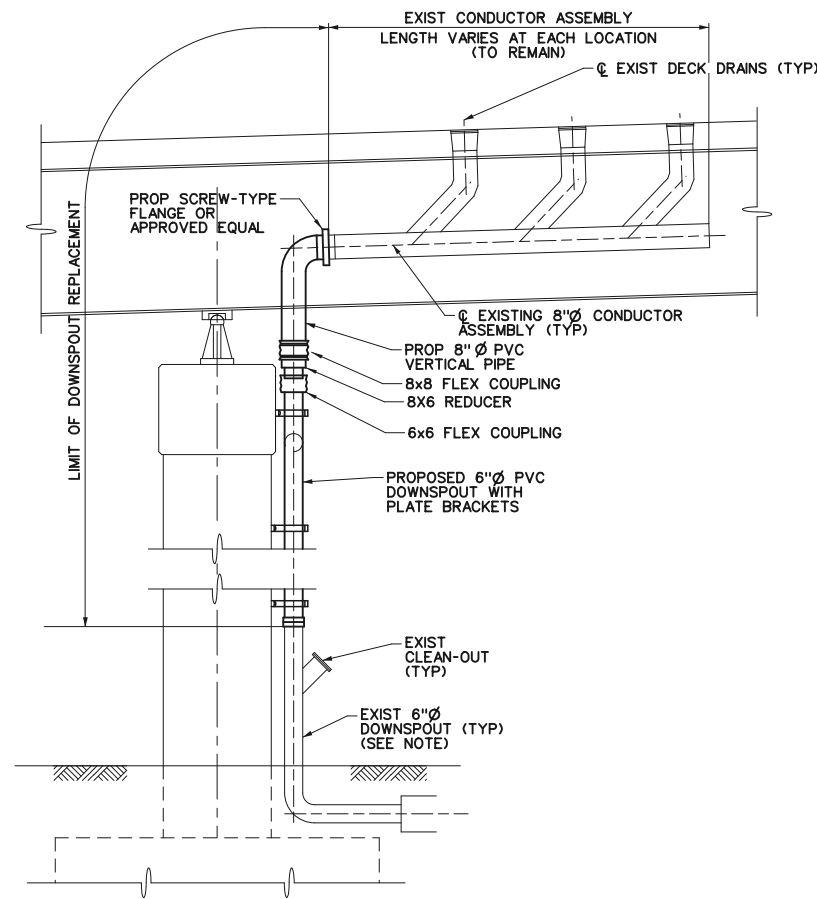
SEE SHEETS 16 & 17 FOR LIMITS OF REMOVAL AT SPANS 1 & 16

- NOTES**
- EXTEND EXIST. STEEL REINFORCEMENT MIN 2 FEET INTO BARRIER AND LAP W/ EA04 HORIZONTALS. IF EXIST. REINFORCEMENT IS DETERIORATED CUT FLUSH AND EPOXY ANCHOR 5-EA060300 EA END. ANCHOR INTO EXISTING MIN 1'-0".

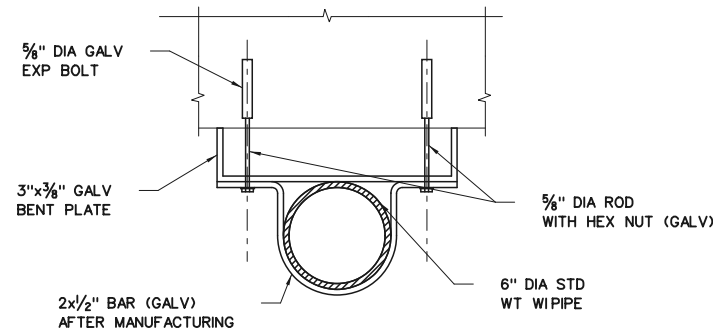
MISCELLANEOUS QUANTITIES		
25	FT	BRIDGE BARRIER RAILING, RECONST PORTIONS
146	EA	ADHESIVE ANCHORING OF VERTICAL BAR, 1/2 INCH
10	EA	ADHESIVE ANCHORING OF HORIZONTAL BAR, 3/4 INCH
20	CYD	CONC, GRADE D
80	CFT	HAND CHIPPING OTHER THAN DECK
175	SFT	PATCH, FORMING

WORK THIS SHEET W/ SHEETS 16 & 17

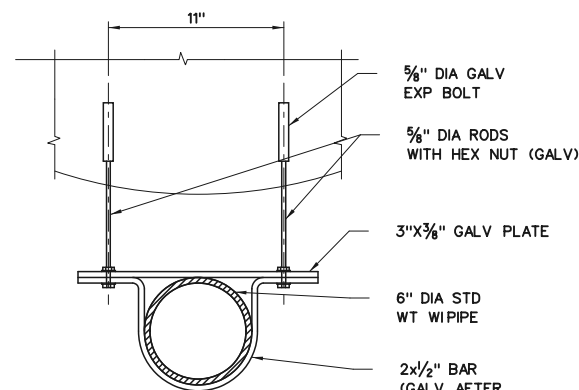
NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:		DESCRIPTION	BY
 500 Griswold, Suite 2500 Detroit, MI 48226 313.961.3826 FAX: 313.961.0888 www.wadetrिम.com Building relationships on a foundation of excellence		DATE	
CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF BARRIER REPAIR DETAILS		REV	
ISSUED FOR: DATE: BY: LETTING 9/15 RRB		JOB NO. DTE 2025-18T	
SHEET 22		© Wade Trim Group, Inc. MT. ELLIOTT/MOUND BRIDGE CPM	



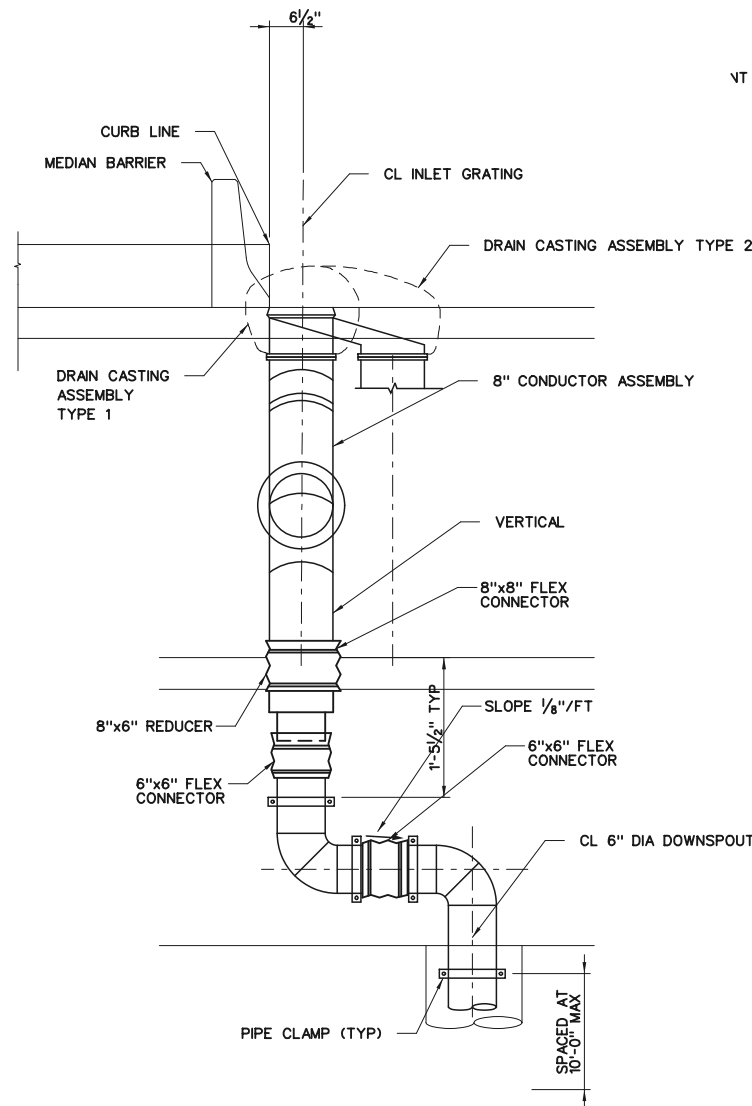
TYPICAL DOWNSPOUT ELEVATION  
AT PIER



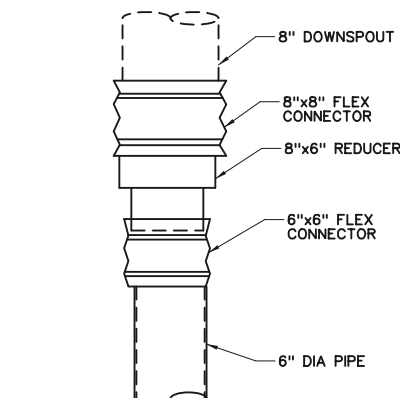
PIPE CLAMP ON PIER CAP



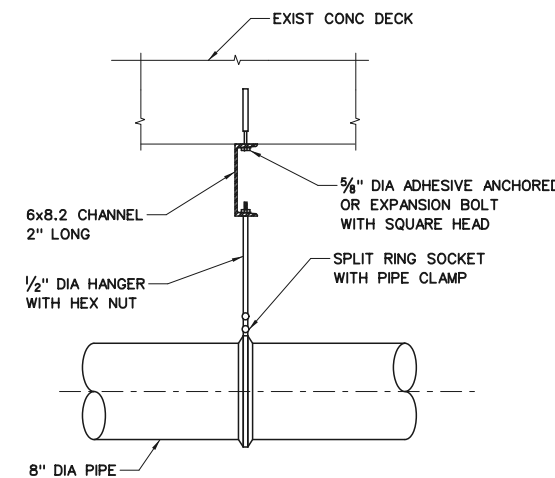
PIPE CLAMP ON PIER COLUMN



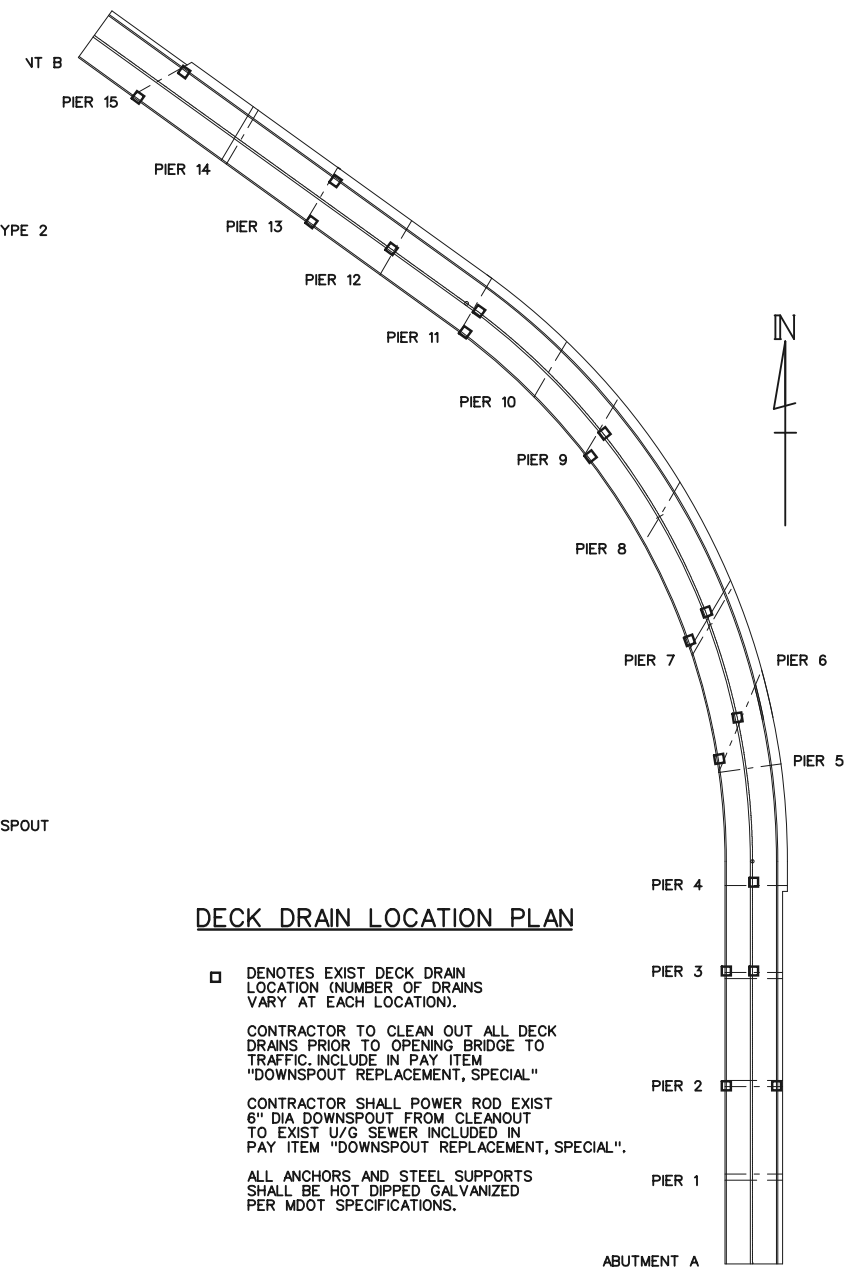
MEDIAN SECTION



FLEXIBLE COUPLING DETAIL



PIPE HANGER



DECK DRAIN LOCATION PLAN

- DENOTES EXIST DECK DRAIN LOCATION (NUMBER OF DRAINS VARY AT EACH LOCATION).
- CONTRACTOR TO CLEAN OUT ALL DECK DRAINS PRIOR TO OPENING BRIDGE TO TRAFFIC. INCLUDE IN PAY ITEM "DOWNSPOUT REPLACEMENT, SPECIAL"
- CONTRACTOR SHALL POWER ROD EXIST 6" DIA DOWNSPOUT FROM CLEANOUT TO EXIST U/G SEWER INCLUDED IN PAY ITEM "DOWNSPOUT REPLACEMENT, SPECIAL".
- ALL ANCHORS AND STEEL SUPPORTS SHALL BE HOT DIPPED GALVANIZED PER MDOT SPECIFICATIONS.

MISCELLANEOUS QUANTITIES

18 EA DOWNSPOUT REPLACEMENT, SPECIAL

NO.	DATE	REV.	DESCRIPTION	BY

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DECK DRAIN DETAILS

ISSUED FOR: DATE: BY:  
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DTE 2025-18T

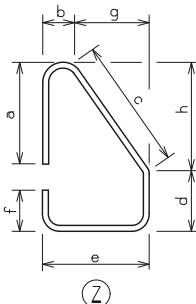
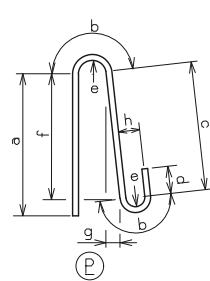
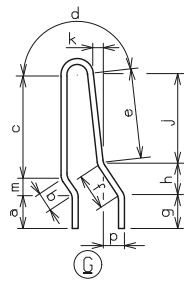
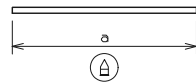
SHEET  
23

PROJECT MANAGER: RBREEN  
FIELD BOOK INFORMATION: -  
C:\pwworking\mimic01a\30556283\CDP-FLIS-DeckDrains.dgn  
PLOTTED 9/29/2015 11:25:39 AM BY: Mmic01a

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STEEL REINFORCING SCHEDULE

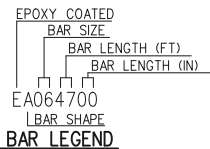
BAR	DIMENSIONS									NO. REQD	TOTAL WT.	
	a	b	c	d	e	f	g	h	j			
EA040100	1'-0"										89	59
EA040306	3'-6"										2	5
EA042406	24'-6"										5	82
EA044300	43'-0"										4	115
EA060300	3'-0"										10	45
EG040608	6"	5"	2'-1"	6 1/2"	1'-6"	1'-1/4"	7 1/4"	10"	1'-5 7/8"		19	85
EP040602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3'-0"			38	157
EZ040306	1'-3 1/4"	3 3/4"	1'-3 3/4"	7 1/4"	0	0	9 1/4"	1'-1"			19	44
TOTAL =											591	



STEEL REINFORCEMENT NOTES:

REINFORCEMENT SHALL BE BUNDLED AND TAGGED AS TO THE LOCATION AS SHOWN ON THIS SHEET.

MISC STEEL REINFORCEMENT SHALL BE USED AS NEEDED OR AS DIRECTED BY THE ENGINEER. STEEL REINFORCEMENT MAY BE CUT AS NECESSARY. ALL CUT ENDS SHALL BE TOUCHED UP IN FIELD PER MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 706.03.E.8 (PAGE 391).



MISCELLANEOUS QUANTITIES	
591 Lb	REINFORCEMENT, STEEL, EPOXY COATED

BILL OF MATERIALS

ITEM NUMBER	ITEM DESCRIPTION	TOTAL PLAN QUANTITY	ITEM UNIT
1500001	Mobilization, Max	1	LS
2040010	Concrete Barrier, Rem	609	Ft
2040035	Guardrail, Rem	487	Ft
2040050	Pavt, Rem	4350	Syd
3020001	Aggregate Base	460	Ton
4030005	Dr Structure Cover, Adj, Case 1	5	Ea
5010002	Cold Milling HMA Surface	2800	Syd
5010005	HMA Surface, Rem	1450	Syd
5010020	Pavt Joint and Crack Repr, Det 7	3100	Ft
5010021	Pavt Joint and Crack Repr, Det 8	550	Ft
5010025	Hand Patcing	210	Ton
5010051	HMA, 4E3	260	Ton
5010057	HMA, 5E3	195	Ton
5010061	HMA Approach	115	Ton
6020166	Conc Pavt with Integral Curb, Nonreinf, 9 inch	4600	Syd
6020200	Joint, Contraction, Cp	2810	Ft
6020207	Joint, Expansion, E2	136	Ft
6020208	Joint, Expansion, E3	48	Ft
8020010	Curb and Gutter, Bridge Approach	34	Ft
8020066	Divider, Nonreinf Conc, Type 1	1895	Sft
8070000	Guardrail, Type B	325	Ft
8070024	Guardrail Anch, Bridge, Det T3	2	Ea
8070042	Guardrail Approach Terminal, Type 2B	1	Ea
8070050	Guardrail Departing Terminal, Type B	1	Ea
8100371	Post, Steel, 3 lb	146	Ft
8100403	Sign, Type III, Rem	6	Ea
8100404	Sign, Type IIIA	8	Sft
8100405	Sign, Type IIIB	29	Sft
8110044	Pavt Mrkg, Ovly Cold Plastic, 18 inch, Stop Bar	60	Ft
8110068	Pavt Mrkg, Ovly Cold Plastic, Only	2	Ea
8110071	Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym	2	Ea
8110195	Pavt Mrkg, Thermopl, 4 inch, White	7210	Ft
8110196	Pavt Mrkg, Thermopl, 4 inch, Yellow	5535	Ft
8120022	Barricade, Type III, High Intensity, Lighted, Furn	17	Ea
8120023	Barricade, Type III, High Intensity, Lighted, Oper	17	Ea
8120170	Minor Traf Devices	1	LS
8120250	Plastic Drum, High Intensity, Furn	25	Ea
8120251	Plastic Drum, High Intensity, Oper	25	Ea
8120320	Sign Cover	4	Ea
8120350	Sign, Type B, Temp, Prismatic, Furn	475	Sft
8120351	Sign, Type B, Temp, Prismatic, Oper	475	Sft
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	209	Sft
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	209	Sft
8507050	Impact Attenuator Installation	3	Ea
8507050	Impact Attenuator, Removal and Disposal	2	Ea
8507060	Impact Attenuator, Type 1	15000	Dir
1027051	Right-of-Entry Permit, Conrail Railroad	1	LS
7060010	Conc, Grade D	20	Cyd
7060092	Reinforcement, Steel, Epoxy Coated	591	Lb
7117001	Bridge Barrier Railing, Reconst Portions	25	Ft
7120007	Hand Chipping, Other Than Deck	105	Cft
7120017	Patch, Forming	225	Sft
7120028	Adhesive Anchoring of Horizontal Bar, 3/4 inch	10	Ea
7120032	Adhesive Anchoring of Vertical Bar, 1/2 inch	146	Ea
7120112	Patching Conc, C-L	15	Cyd
7130050	Rocker, Realign	10	Ea
7130080	Support, Column, Temp	2	Ea
7130081	Support, Diaphragm, Temp	20	Ea
7177050	Downspout Replacement, Special	18	Ea
8120081	Conc Barrier, Temp, Furn	100	Ft
8120082	Conc Barrier, Temp, Oper	100	Ft
8507042	Flagging, CN Railroad	15	Wday
8507042	Flagging, Conrail Railroad	15	Wday

Cat 01 - Road Items

Cat 02 - Bridge Items

PROJECT MANAGER: RBREEN FIELD BOOK INFORMATION: C:\pwworknet\rbreen\0356289\CSP-PLTS-MTE00L-Schedule.dgn PLOTTED 10/23/2015 10:15:03 AM BY: rbreen

REV	DATE	DESCRIPTION	BY

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

**WADETRIM**

500 Griswold, Suite 2000  
 Detroit, MI 48226  
 313.961.3850  
 FAX: 313.961.0888  
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 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERING DIVISION  
 MT. ELLIOTT/MOUND RD OVER CN RR & CANIFF  
 BILL OF MATERIALS/STEEL REINFORCING SCHEDULE

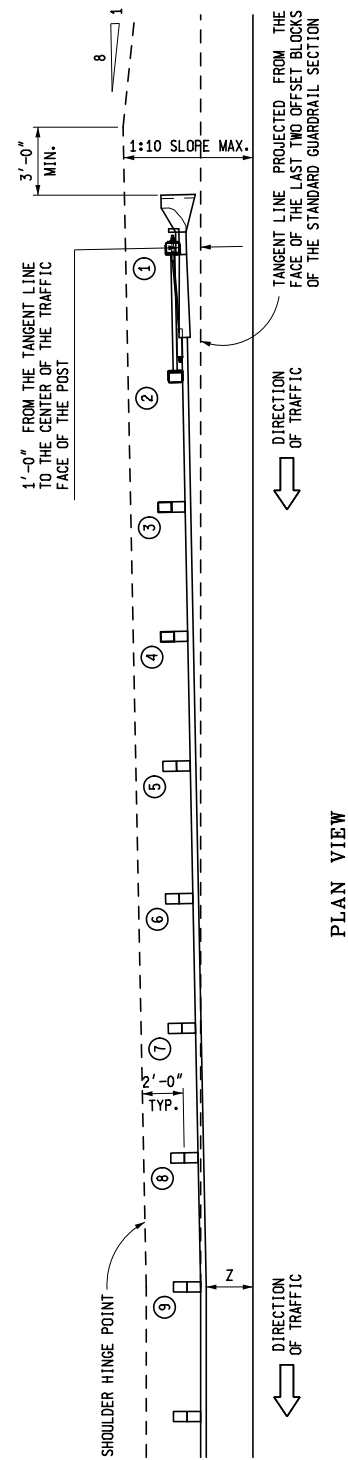
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 LETTING 9/15 RRB

JOB NO.  
 DTE 2025-18T

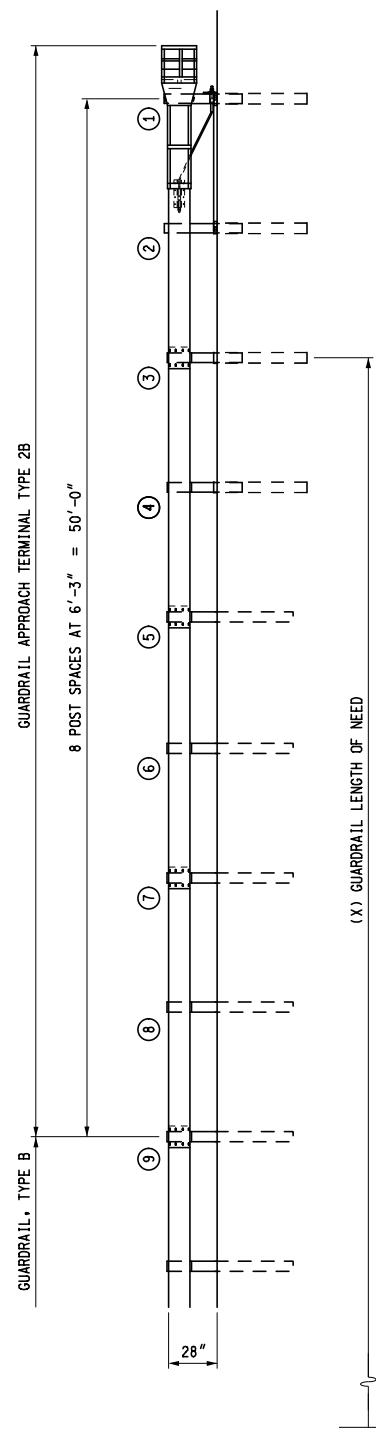
SHEET  
 24

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PLAN VIEW



ELEVATION

GUARDRAIL APPROACH TERMINAL TYPE 2B

**MDOT**  
Michigan Department of Transportation

PREPARED BY  
DESIGN DIVISION

DRAWN BY: B.L.T.

CHECKED BY: W.K.P.

DEPARTMENT DIRECTOR  
Kirk T. Stuedle

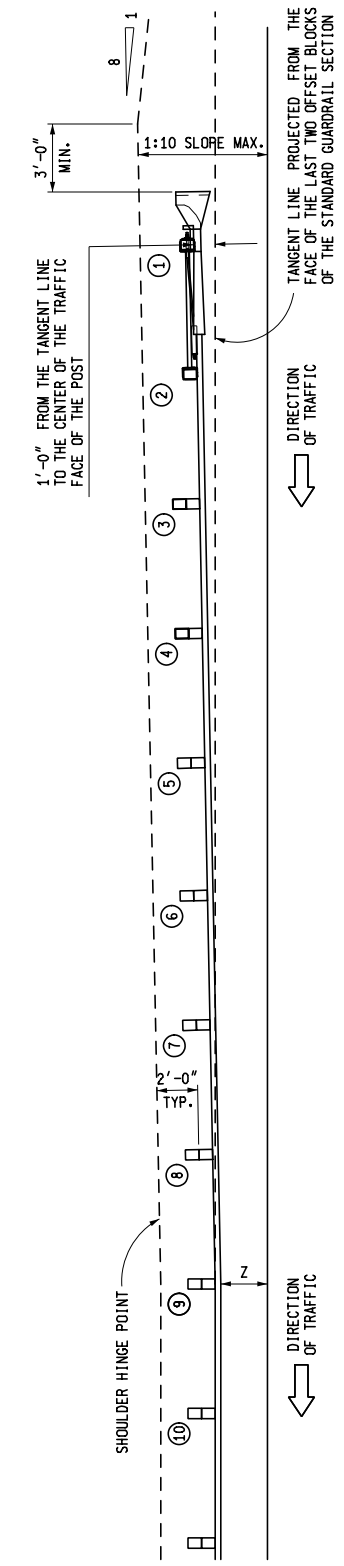
APPROVED BY: \_\_\_\_\_  
DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: \_\_\_\_\_  
DIRECTOR, BUREAU OF HIGHWAY DEVELOPMENT

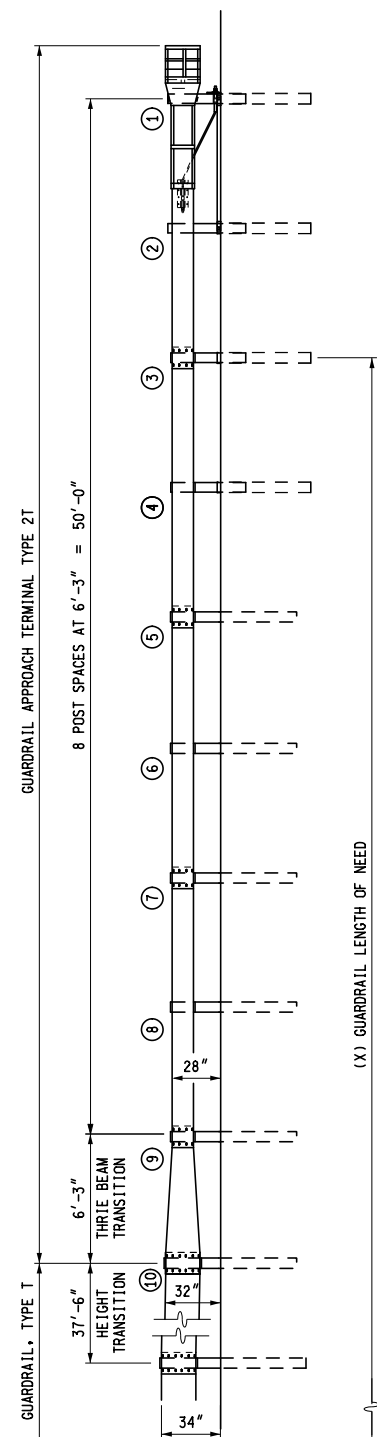
MICHIGAN DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

**GUARDRAIL APPROACH  
TERMINAL TYPES 2B & 2T  
(SKT)**

F.H.W.A. APPROVAL      10-28-2014      R-62-H      SHEET 1 OF 5  
PLAN DATE



PLAN VIEW



ELEVATION

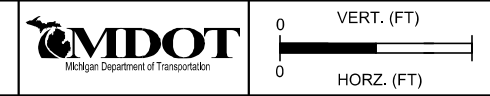
GUARDRAIL APPROACH TERMINAL TYPE 2T

MICHIGAN DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

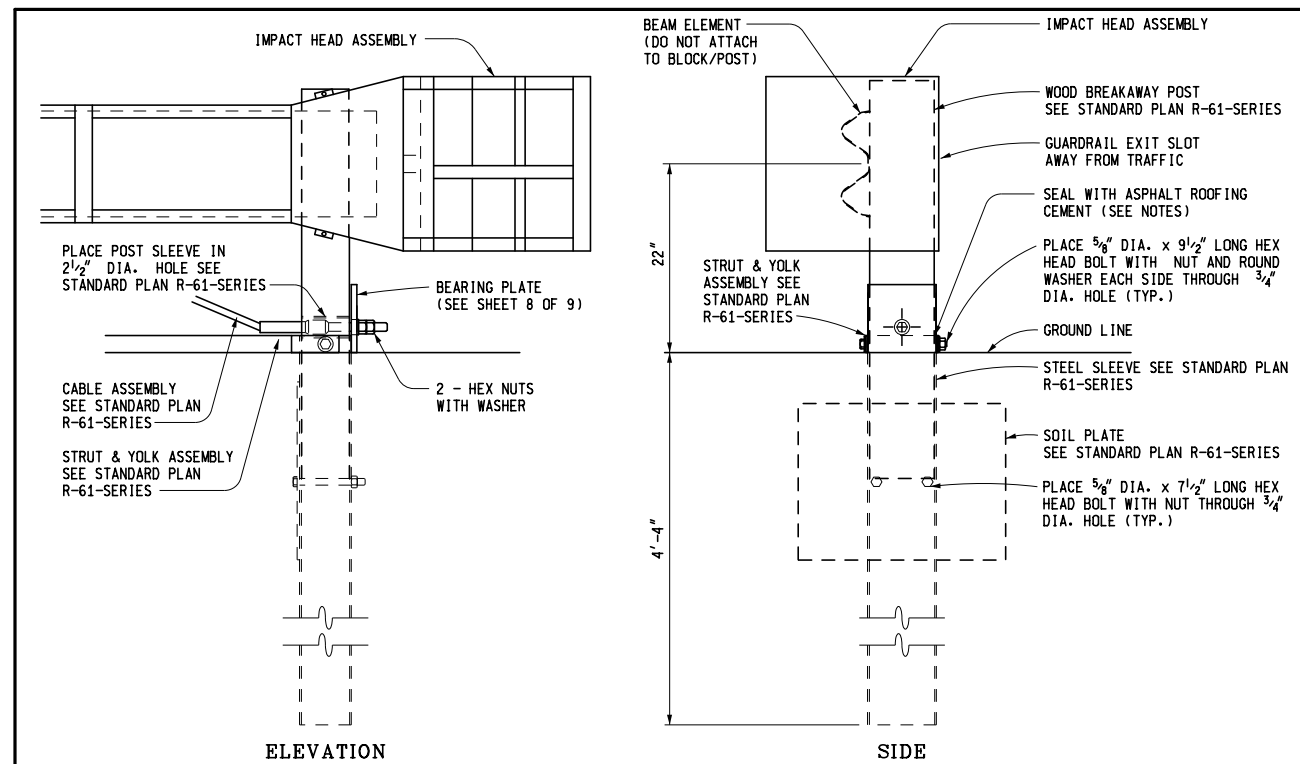
**GUARDRAIL APPROACH  
TERMINAL TYPES 2B & 2T  
(SKT)**

F.H.W.A. APPROVAL      10-28-2014      R-62-H      SHEET 2 OF 5  
PLAN DATE

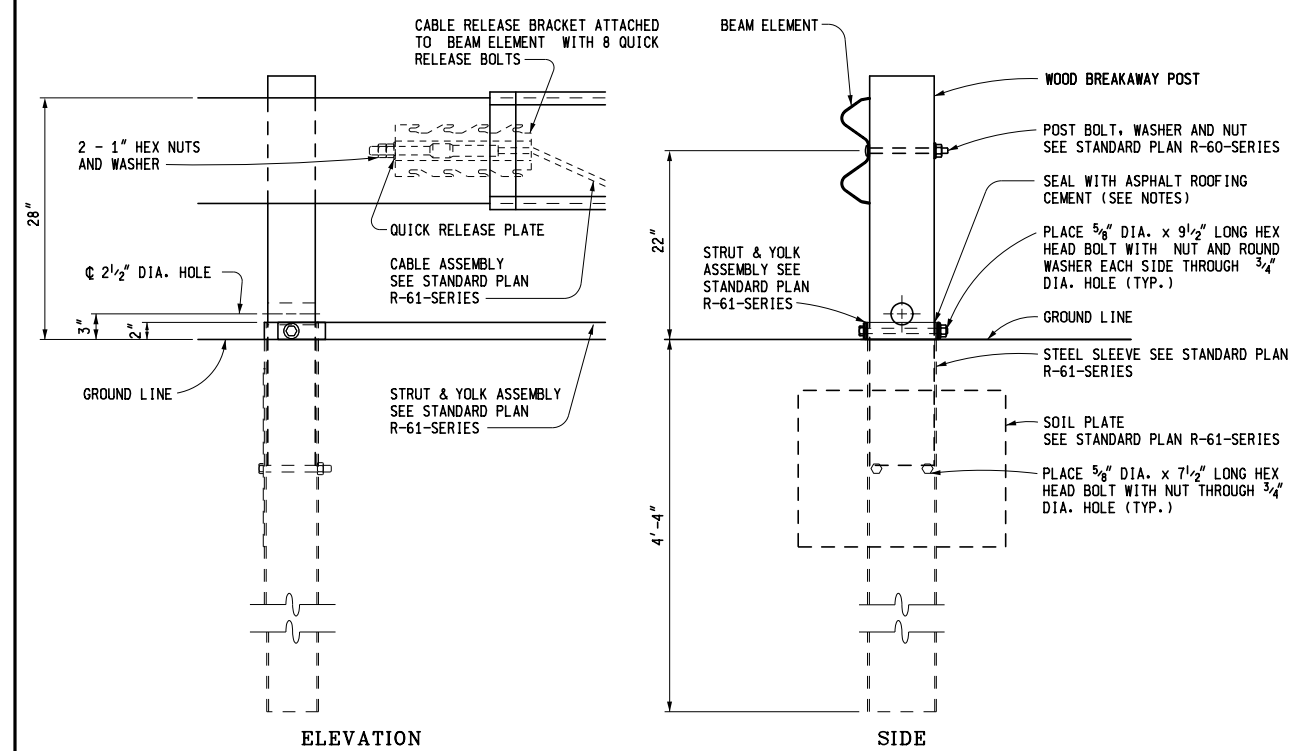
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NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



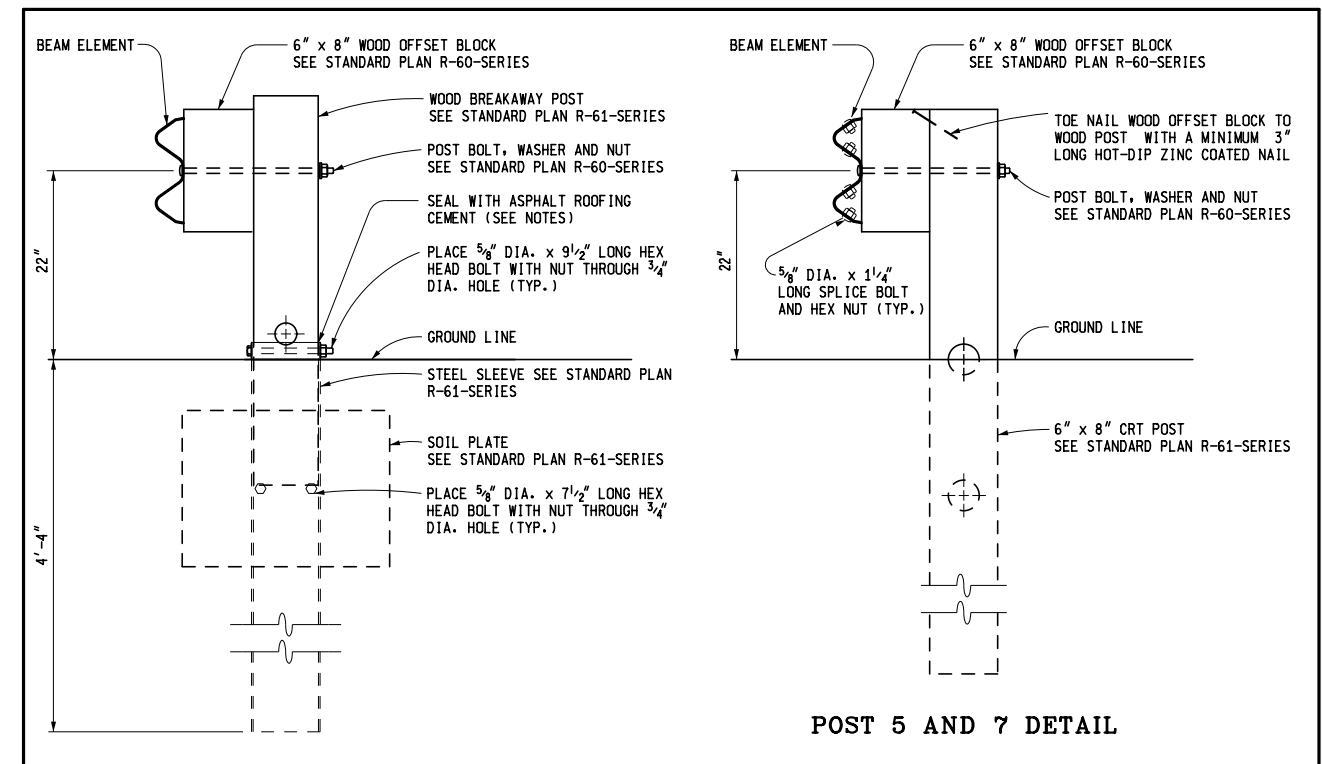
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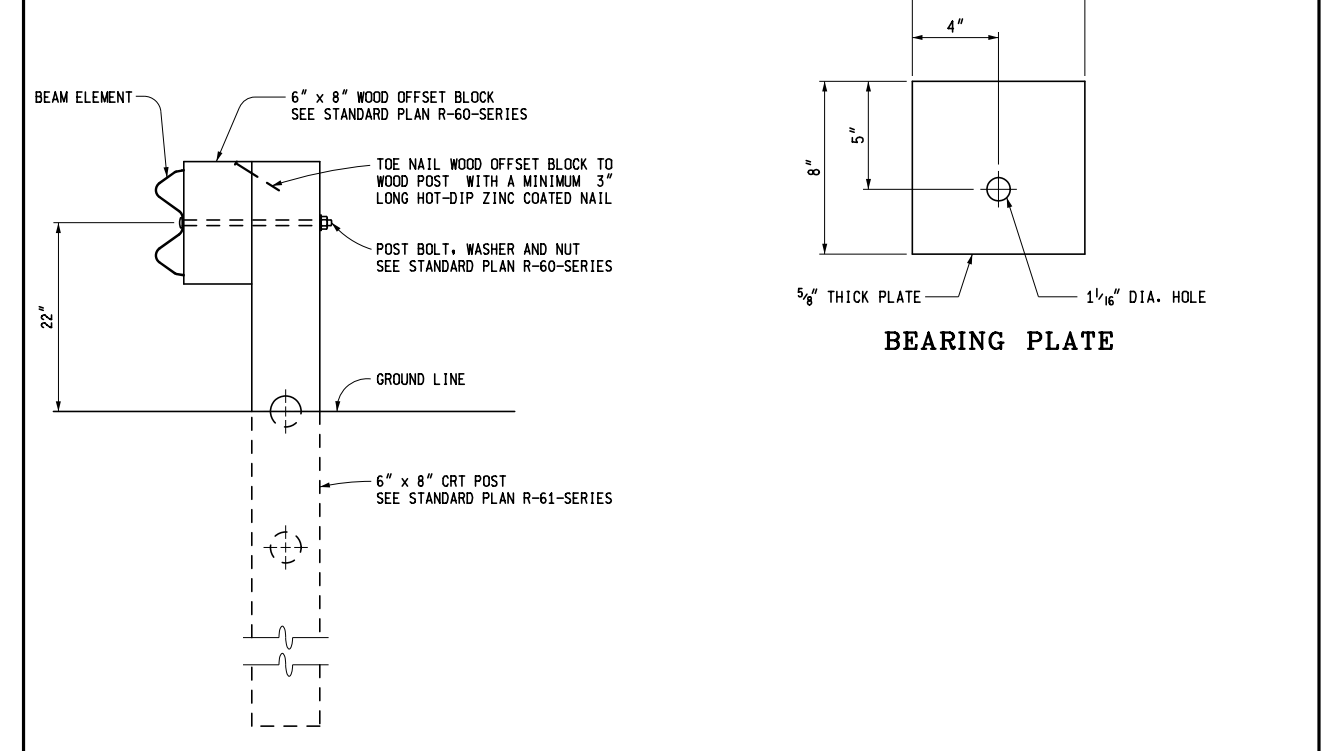
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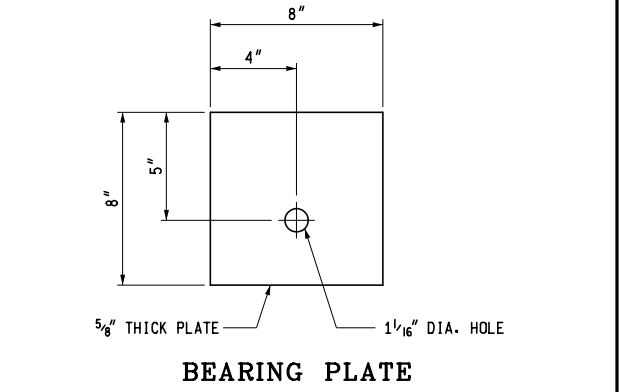
POST 2 DETAIL



POST 3 AND 4 DETAIL



POST 6 AND 8 DETAIL



BEARING PLATE

MICHIGAN DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

**GUARDRAIL APPROACH  
TERMINAL TYPES 2B & 2T  
(SKT)**

F.H.W.A. APPROVAL	10-28-2014 PLAN DATE	R-62-H	SHEET 3 OF 5
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MICHIGAN DEPARTMENT OF TRANSPORTATION  
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

**GUARDRAIL APPROACH  
TERMINAL TYPES 2B & 2T  
(SKT)**

F.H.W.A. APPROVAL	10-28-2014 PLAN DATE	R-62-H	SHEET 4 OF 5
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AS-LET PLAN REVISIONS							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

**MDOT**  
Michigan Department of Transportation

0 VERT. (FT)  
0 HORZ. (FT)

DATE:	CS:	DRAWING	SHEET
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TSC:			
FILE:			

