

# CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS

IN CO-OPERATION WITH  
MICHIGAN DEPARTMENT OF TRANSPORTATION  
AND  
FEDERAL HIGHWAY ADMINISTRATION

CONTROL SECTION NO. -----  
JOB NO. -----  
FEDERAL PROJECT NO. -----  
FEDERAL ITEM NO. -----

PLANS FOR PROPOSED

## DIVISION ST OVER ABANDONED GTW RR (DEQUINDRE CUT) BRIDGE REPLACEMENT

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

WHERE THE FOLLOWING ITEMS ARE CALLED FOR IN THE PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLANS GIVEN BELOW.

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BRIDGE RAILING, AESTHETIC PARAPET TUBE	B-25-G
MOLDING, BEVEL, LIGHT STANDARD ANCHOR BOLT ASSEMBLY & NAMEPLATE DETAILS	B-103-E
FENCING FOR BRIDGE RAILING, AESTHETIC PARAPET TUBE	B-41-C

### TRAFFIC AND SAFETY STANDARD PLANS

WHERE 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

• DESIGNATES SPECIAL DETAILS

### UTILITY CONTACT INFORMATION

CITY OF DETROIT STREET LIGHTING  
PLD  
9449 GRINNELL  
DETROIT, MI 48213  
MICHAEL LASKOWSKI (313) 267-7306

CITY OF DETROIT WATER MAINS & SEWERS  
DWSD  
735 RANDOLPH ST.  
DETROIT, MI 48226  
GANG SONG (313) 967-1508

CITY OF DETROIT TRAFFIC SIGNALS  
TRAFFIC ENGINEERING, D.P.W.  
2633 MICHIGAN AVENUE  
DETROIT, MI 48207  
ASHOK PATEL (313) 224-1610

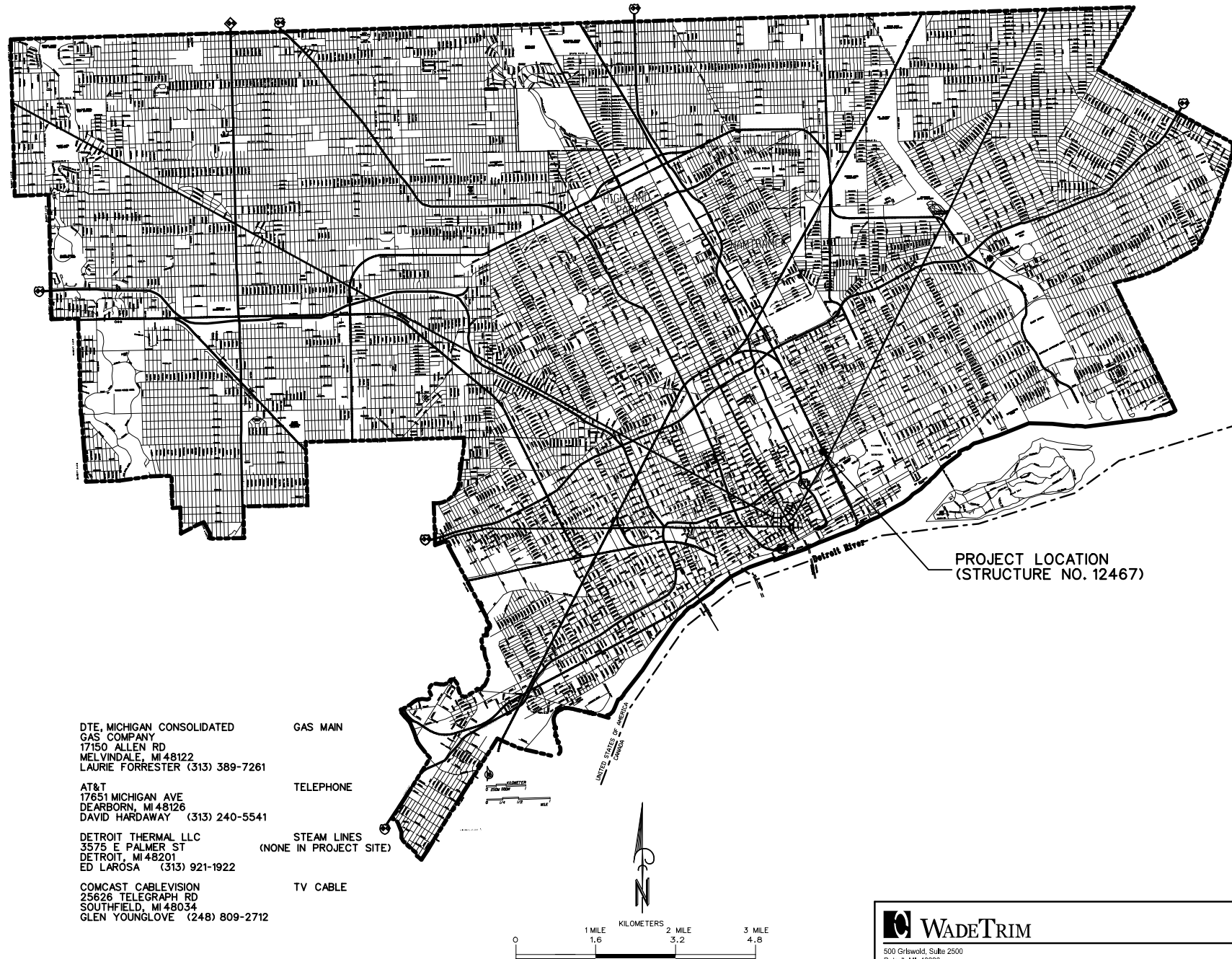
DTE, DETROIT EDISON ELECTRIC POWER  
ONE ENERGY PLAZA  
IGS GROUP 5185A  
DETROIT, MI 48226  
CHANELLE BARNES (313) 235-5632

DTE, MICHIGAN CONSOLIDATED GAS MAIN  
GAS COMPANY  
17150 ALLEN RD  
MELVINDALE, MI 48122  
LAURIE FORRESTER (313) 389-7261

AT&T TELEPHONE  
17651 MICHIGAN AVE  
DEARBORN, MI 48126  
DAVID HARDAWAY (313) 240-5541

DETROIT THERMAL LLC STEAM LINES  
3575 E PALMER ST  
DETROIT, MI 48201  
ED LAROSA (313) 921-1922  
(NONE IN PROJECT SITE)

COMCAST CABLEVISION TV CABLE  
25626 TELEGRAPH RD  
SOUTHFIELD, MI 48034  
GLEN YOUNGLOVE (248) 809-2712



PROJECT LOCATION  
(STRUCTURE NO. 12467)

### GENERAL NOTES

THE RECONSTRUCTION DESIGN IS BASED ON 1.2 TIMES THE CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATION HL-93 LOADING WITH THE EXCEPTION THAT THE DESIGN TANDEM PORTION OF THE HL-93 LOAD DEFINITION SHALL BE REPLACED BY THE SINGLE 60 KIP AXLE LOAD BEFORE APPLICATION OF THIS 1.2 FACTOR. THE RESULTING LOAD IS DESIGNATED HL-93 MOD. LIVE LOAD PLUS DYNAMIC LOAD ALLOWANCE DEFLECTION DOES NOT EXCEED 1/1000 OF SPAN LENGTH.

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

CONCRETE: GRADE S2 FC-3,000 PSI  
CONCRETE: GRADE D FC-4,000 PSI  
STEEL REINFORCEMENT FY-60,000 PSI

ESTIMATED TRAFFIC DISTRIBUTION  
AVERAGE DAILY TRAFFIC 335  
DESIGN HOURLY VOLUME  
COMMERCIAL 10%  
POSTED SPEED NONE  
DESIGN SPEED 30 MPH

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.

THE DESIGN OF THE FOUNDATION PILING IS BASED ON MATERIAL OF THE FOLLOWING GRADES AND STRESSES (AND LOSSES):  
FOUNDATION PILING (STEEL H-PILING):  
AASHTO M270 3 IN  
GRADE 50 FY-50,000 PSI

UNLESS OTHERWISE SHOWN ON THE PLANS PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT ACCORDING TO THE FOLLOWING:  
CONCRETE CAST AGAINST EARTH: 3 IN  
PRECAST CONCRETE: 1 IN  
ALL OTHER UNLESS SHOWN ON PLANS: 2 IN

THE BRIDGE DECK SURFACE HAS AN HMA OVERLAY, HMA CAP OR HMA PATCHES. REMOVAL OF HMA AS A RESULT OF REMOVAL OF OTHER SUPERSTRUCTURE ITEMS SHALL BE INCLUDED IN THE REMOVAL OF THOSE ITEMS.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

Drawn		Date:
Checked		CEA File Name
Approved		
		File No.
		Job No.
Approved		
		File No.
Approved		

CONTRACT FOR	BRIDGE REPLACEMENT
LOCAL AUTHORITY APPROVAL CITY OF DETROIT CITY ENGINEERING DEPARTMENT DEPARTMENT OF PUBLIC WORKS	
APPROVED BY	HEAD ENGINEER _____ DATE _____
APPROVED BY	CITY ENGINEER _____ DATE _____

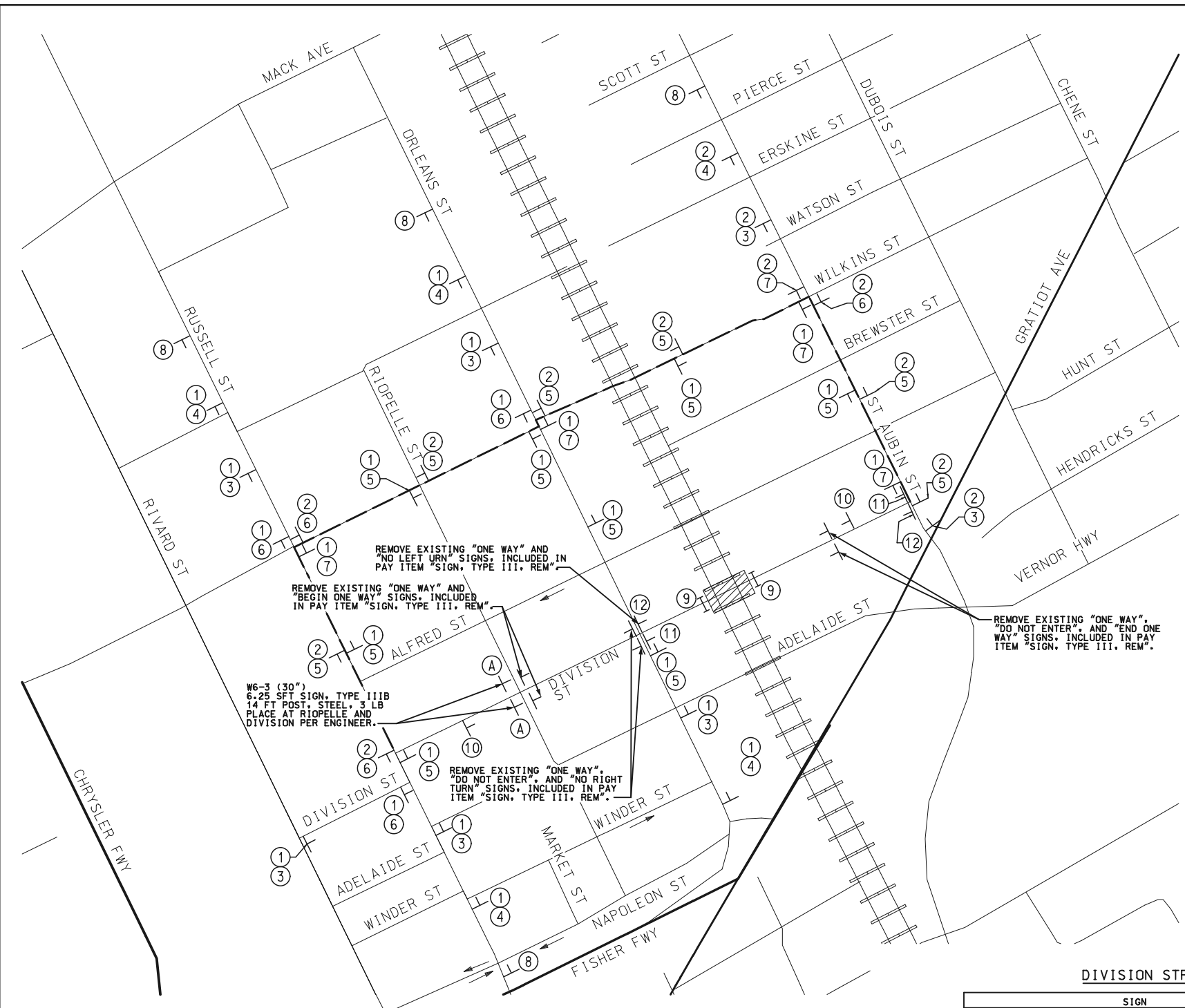
PREPARED UNDER THE SUPERVISION OF	
ROBERT R. BREEN, PE	28033 LICENSE • DATE

**WADETRIM**  
500 Griswold, Suite 2500  
Detroit, MI 48226  
313.961.3650  
FAX: 313.961.0898  
www.wadetrtrim.com

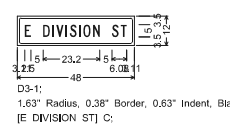
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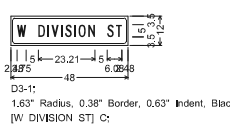
PROJECT MANAGER: [Name] FIELD BOOK INFORMATION: - PLOTTED 4/23/2013 1:37:54 PM BY: Agronowski  
 C:\pwworkspace\10326909\DIVISION DETOUR.dwg



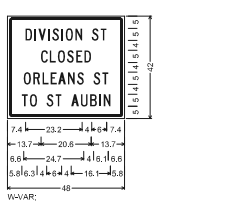
PLAN



SPECIAL SIGN #1 DETAIL

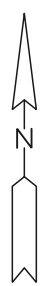


SPECIAL SIGN #2 DETAIL



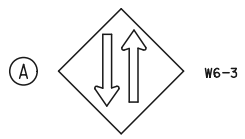
SPECIAL SIGN #3 DETAIL

- LEGEND**
- DETOUR ROUTE
  - ① SIGN CLUSTER NUMBER
  - TYPE III BARRICADE
  - ▨ WORK ZONE
  - ← ONE-WAY STREET (FLOW OF TRAFFIC)



- |   |                   |                 |   |   |                 |
|---|-------------------|-----------------|---|---|-----------------|
| ① | E DIVISION ST     | SPECIAL SIGN #1 | ⑦ | DETOUR                                    | M4-9(R)         |
| ② | W DIVISION ST     | SPECIAL SIGN #2 | ⑧ | DIVISION ST CLOSED ORLEANS ST TO ST AUBIN | SPECIAL SIGN #3 |
| ③ | DETOUR AHEAD      | W20-2           | ⑨ | ROAD CLOSED                               | R11-2           |
|   |                   |                 |   | 4-TYPE III BARRICADES                     |                 |
| ④ | ROAD CLOSED AHEAD | W20-3           | ⑩ | END DETOUR                                | M4-8a           |
| ⑤ | DETOUR            | M4-9a           | ⑪ | SIDEWALK CLOSED AHEAD CROSS HERE          | R9-11(L)        |
|   |                   |                 |   | 1-TYPE III BARRICADE                      |                 |
| ⑥ | DETOUR            | M4-9(L)         | ⑫ | SIDEWALK CLOSED AHEAD CROSS HERE          | R9-11(R)        |
|   |                   |                 |   | 1-TYPE III BARRICADE                      |                 |

PERMANENT SIGNING



MISCELLANEOUS QUANTITIES	
13 SFT	SIGN, TYPE IIIB
28 FT	POST, STEEL, 3LB
2 EA	POST HOLE THROUGH CONC FOR STEEL POST
22 EA	SIGN, TYPE III, REM

DIVISION STREET DETOUR SIGNING QUANTITIES

DESCRIPTION	CODE	TYPE	SIZE (In x In)			AREA	TOTAL QTY	TOTAL AREA
			IN	IN	SQ FT			
E DIVISION ST	SPECIAL SIGN #1	B	48	12	4.0	24	96	
W DIVISION ST	SPECIAL SIGN #2	B	48	12	4.0	13	52	
DETOUR AHEAD	W20-2	B	48	48	16.0	7	112	
ROAD CLOSED AHEAD	W20-3	B	48	48	16.0	5	80	
DETOUR (STRAIGHT)	M4-9a	B	30	24	5.0	14	70	
DETOUR (LEFT)	M4-9(L)	B	30	24	5.0	6	30	
DETOUR (RIGHT)	M4-9(R)	B	30	24	5.0	5	25	
DIVISION ST CLOSED ORLEANS ST TO ST AUBIN	SPECIAL SIGN #3	B	48	42	14.0	4	56	
ROAD CLOSED	R11-2	B	48	30	10.0	2	20	
END DETOUR	M4-8a	B	30	24	5.0	2	10	
SIDEWALK CLOSED AHEAD CROSS HERE (LEFT)	R9-11(L)	B	24	12	2.0	2	4	
SIDEWALK CLOSED AHEAD CROSS HERE (RIGHT)	R9-11(R)	B	24	12	2.0	2	4	
SIGN, TYPE B, TEMP, PRISMATIC, FURN						45	391	
SIGN, TYPE B, TEMP, PRISMATIC, OPER							355	
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, FURN						41	224	
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, OPER							204	

		QTY
BARRICADE, TYPE III, HIGH INTENSITY, FURN	EA	12
BARRICADE, TYPE III, HIGH INTENSITY, OPER	EA	12
MINOR TRAF DEVICES	LS	1

MAINTAINING TRAFFIC NOTES

- ALL TEMPORARY CONSTRUCTION TRAFFIC APPURTENANCES, SUCH AS BARRICADES NECESSARY FOR CONSTRUCTION SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ALL CONSTRUCTION APPURTENANCES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. EXISTING SIGNS IN CONFLICT WITH THE TEMPORARY CONSTRUCTION TRAFFIC SIGNS SHALL BE 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 ON ANY ROAD CLOSURES.
- LOCAL STREETS ADJACENT TO THE CONSTRUCTION AREA SHALL NOT BE USED BY THE CONTRACTOR FOR EQUIPMENT AND MATERIAL STORAGE.
- THE CONTRACTOR SHALL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL, FOR TRUCK OR HAUL ROUTES TO BE USED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY ADJACENT BUSINESSES IN WRITING A MINIMUM OF TEN WORKING DAYS PRIOR TO PAVEMENT REMOVAL OR ANY PLANNED CONSTRUCTION THAT MAY LIMIT OR TEMPORARILY ELIMINATE ACCESS TO THEIR PROPERTY.
- ALL CONSTRUCTION ACTIVITIES SHALL TAKE PLACE BETWEEN THE HOURS OF 7:00 A.M. AND 7:00 P.M. 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 P.M. AND 7:00 A.M. THE CONTRACTOR MAY REQUEST AN EXTENSION OF WORK HOURS. ANY EXTENSION OF WORK HOURS IS AT THE DISCRETION OF THE CITY OF DETROIT, CITY ENGINEERS OFFICE.

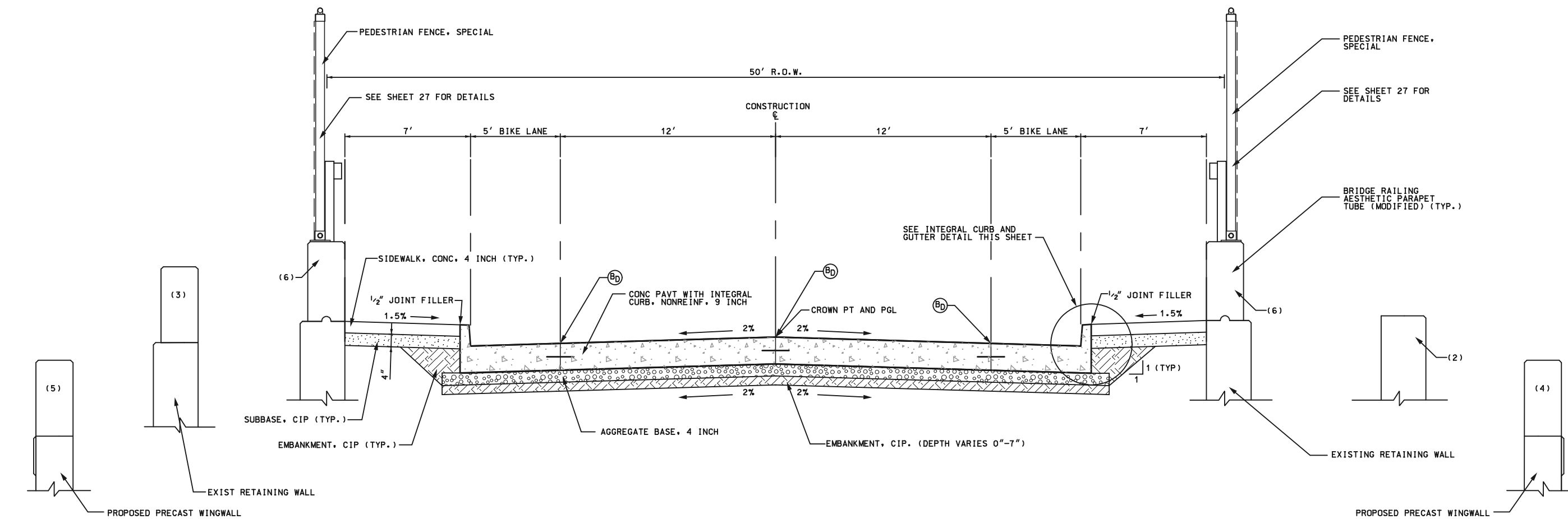
CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERING DIVISION  
 DIVISION ST. OVER DEQUINDRE CUT  
 DETOUR PLAN

NO.	DATE	DESCRIPTION	BY

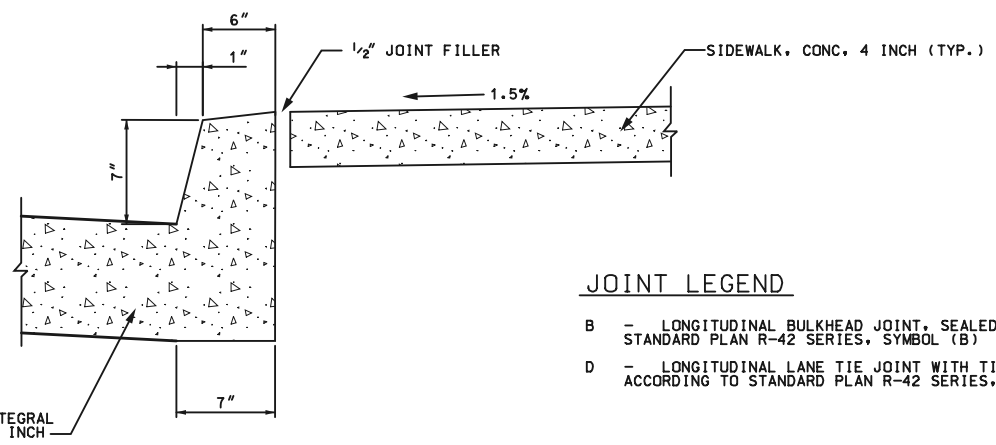
MUST MAINT. FOR CONSTRUCTION UNLESS SIGNED AND DATED:  
**WADETRIM**  
 500 Griswold, Suite 2500  
 Detroit, MI 48226  
 313.961.3850  
 FAX: 313.961.0888  
 www.wadetrिम.com  
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 JOB NO. DTE 2025-10T  
 SHEET 2





**PROPOSED TYPICAL PAVEMENT SECTION**  
 STA 3+35.00 TO STA 5+08.94  
 NOT TO SCALE



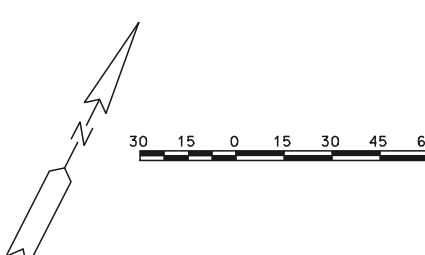
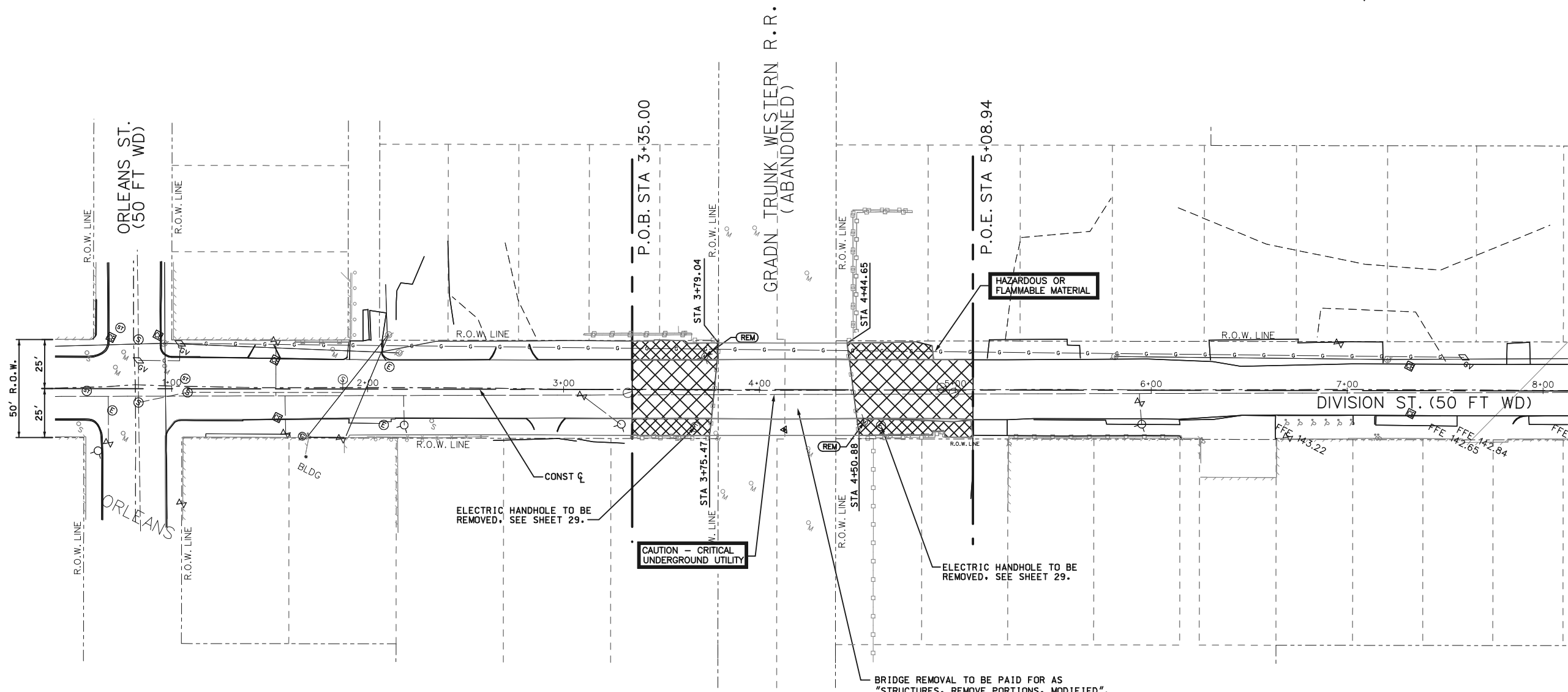
**JOINT LEGEND**

B - LONGITUDINAL BULKHEAD JOINT, SEALED ACCORDING TO STANDARD PLAN R-42 SERIES, SYMBOL (B)

D - LONGITUDINAL LANE TIE JOINT WITH TIE BARS, SEALED ACCORDING TO STANDARD PLAN R-42 SERIES, SYMBOL (D)

- NOTES:**
- (1) NO BARRIER, FLUSH WITH GRADE STA 3+35.00 TO STA 3+49.16 AND STA 4+51.58 TO STA 5+08.94
  - (2) NO BARRIER, FLUSH WITH GRADE STA 3+35.00 TO STA 3+64.03 AND STA 4+58.25 TO STA 5+08.94
  - (3) EXIST RETAINING WALL W/ 3'-8 1/2" BARRIER STA 3+49.16 TO STA 3+63.25
  - (4) PRECAST WALL W/ 3'-8 1/2" BARRIER STA 3+64.03 TO STA 3+74.75 AND STA 4+43.25 TO STA 4+58.25
  - (5) PRECAST WALL W/ 3'-8 1/2" BARRIER STA 3+63.25 TO STA 3+74.75 AND STA 4+43.25 TO STA 4+51.58
  - (6) @ BRIDGE - AESTHETIC PARAPET TUBE W/ PEDESTRIAN FENCE STA 3+74.75 TO STA 4+43.25

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION DIVISION ST OVER ABANDONED GTWRR TYPICAL PAVEMENT SECTION	
WADETRIM 500 Gibraltar, Suite 2000 Detroit, MI 48226 313.961.3850 FAX: 313.961.1888 www.wadetrिम.com	BUILDING MATERIALS on a foundation of excellence
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SHEET 4	REV. DATE DESCRIPTION



BRIDGE REMOVAL TO BE PAID FOR AS "STRUCTURES, REMOVE PORTIONS, MODIFIED". SEE BRIDGE REMOVAL SHEETS FOR LIMITS. EXIST PLD CONDUITS IN BRIDGE TO BE ABANDONED AND REMOVED WITH BRIDGE REMOVAL. INCLUDED IN PAY ITEM "STRUCTURE, REM PORTIONS, MODIFIED".

**NOTES:**

THE EXISTING CONCRETE PAVEMENT SHALL BE SAWED FULL DEPTH AND REMOVED IN A MANNER AS TO NOT DISRUPT OR DAMAGE EXISTING BUILDINGS. NO IMPACT TYPE EQUIPMENT SHALL BE USED.

SEE SHEET 29 FOR WATER MAIN REMOVAL AND REPLACEMENT.

**REMOVAL QUANTITIES THIS SHEET**

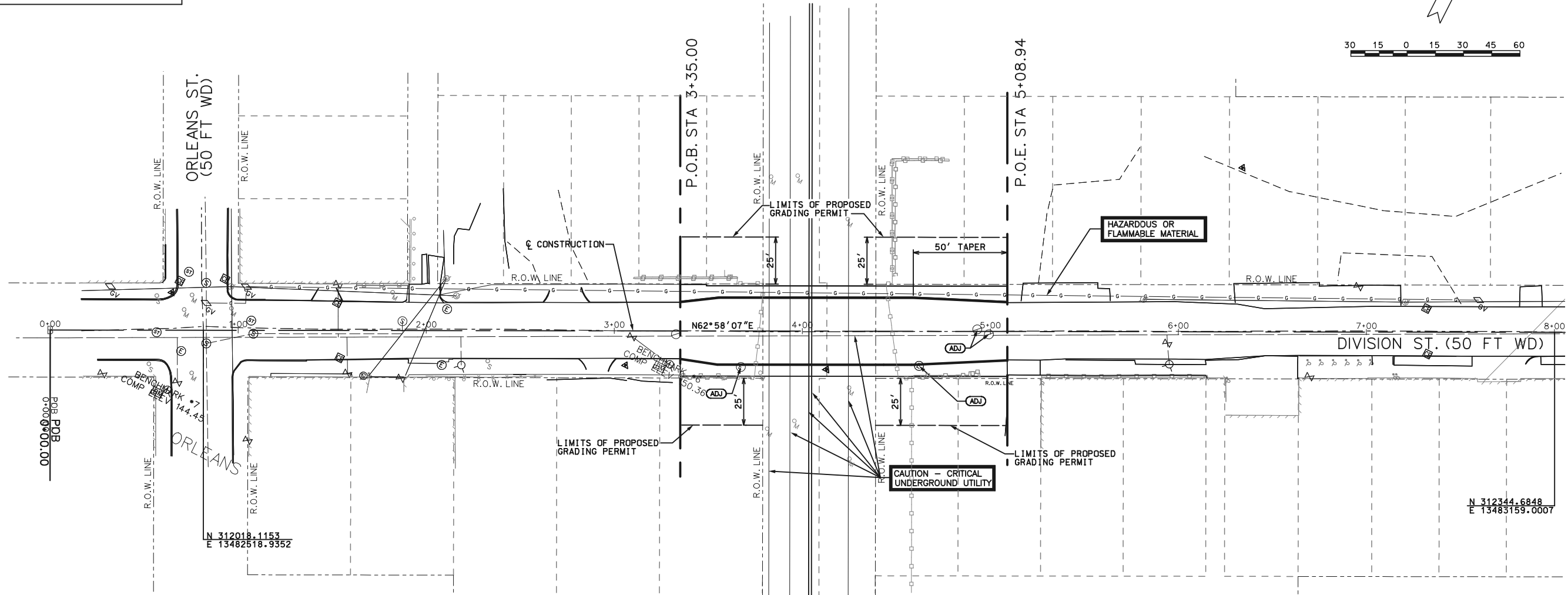
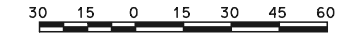
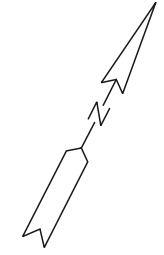
345	SYD	PAVT., REM
180	SYD	SIDEWALK, REM
345	SYD	HMA SURFACE, REM
439	CYD	EXCAVATION, EARTH

	SIDEWALK, REM
	HMA SURFACE, REM AND PAVT., REM

<b>WadeTrim</b> 500 Griswold, Suite 2500 Detroit, MI 48226 313.981.3820 FAX: 313.981.0888 www.wadetrिम.com		Building relationships on a foundation of excellence.
<b>CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION DIVISION ST OVER ABANDONED GTWRR ROAD REMOVAL PLAN</b>		DIVISION STREET BRIDGE
ISSUED FOR:	DATE:	BY:
JOB NO. <b>DTE 2025-10T</b>		
SHEET <b>5</b>		
REV #	DATE	DESCRIPTION

**BENCHMARKS**

- BM\*6: ARROW ON FIRST FIRE HYDRANT ON SOUTH SIDE OF DIVISION WEST OF BRIDGE  
EL. 150.36
- BM\*7: ARROW ON FIRE HYDRANT AT SOUTH WEST CORNER OF DIVISION AND ORLEANS  
EL. 144.45
- BM\*12: STREET SIGN ON EAST SIDE OF ST. AUBIN STREET ACROSS FROM SOUTH WEST CORNER OF DIVISION  
EL. 142.79



N 312344.6848  
E 13483159.0007

**CONSTRUCTION QUANTITIES THIS SHEET**

266	CYD	EMBANKMENT, CIP
30	CYD	SUBBASE, CIP
230	SYD	AGGREGATE BASE, 4 INCH
230	SYD	CONC PAVT WITH INTEGRAL CURB, NONREINF, 9 INCH
470	FT	JOINT CONTRACTION, CP
2415	SFT	SIDEWALK, CONC, 4 INCH
2	EA	GATE BOX, ADJ, CASE 1
2	EA	HH, ADJ
2	STA	MACHINE GRADING

PLOTTED 4/22/2013 10:59:16 AM BY Agronowski

PROJECT MANAGER: Agronowski, 0326909\CPP-PL15-RoadConstructionPlan.dgn



REV	DATE	DESCRIPTION	BY

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

**WADETRIM**  
500 Griswold, Suite 2500  
313.491.3226  
313.491.3650  
FAX: 313.981.0888  
www.wadetrtrim.com

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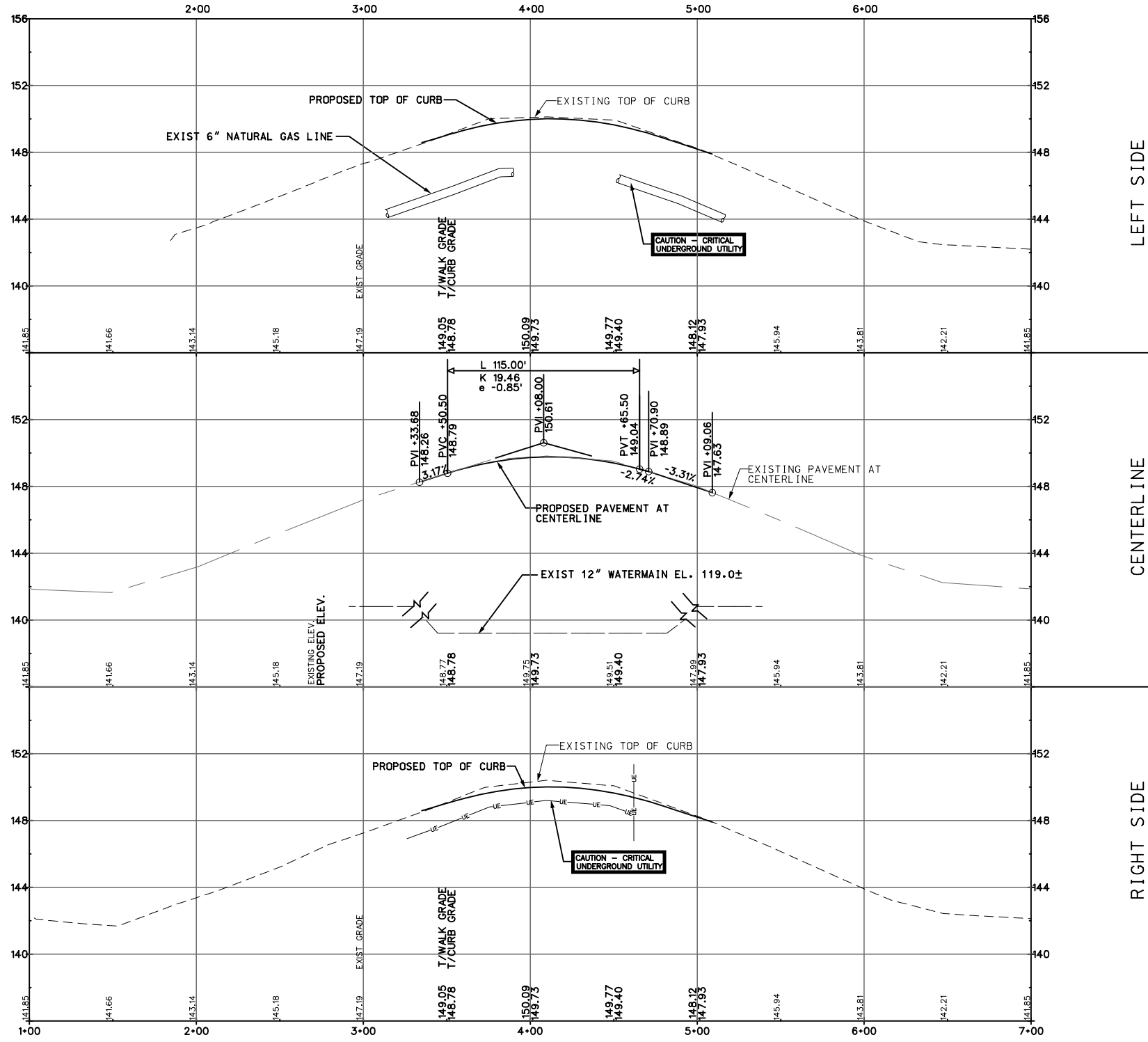
**CITY OF DETROIT**  
**DEPARTMENT OF PUBLIC WORKS**  
**CITY ENGINEERING DIVISION**  
**DIVISION ST OVER ABANDONED GTWRR**  
**ROAD CONSTRUCTION PLAN**

ISSUED FOR: DATE: BY:

JOB NO.  
**DTE 2025-10T**

SHEET  
**6**

© Wade Trim Group, Inc. DIVISION STREET BRIDGE



LEFT SIDE

CENTERLINE

RIGHT SIDE

SCALE  
 1" = 4' VERT  
 1" = 40' HORIZ

REV.	DATE	DESCRIPTION	BY

DO NOT MAKE FOR CONSTRUCTION UNLESS SIGNED AND DATED.

**WADETRIM**  
 500 Griswold, Suite 2000  
 Detroit, MI 48226  
 313.961.3620  
 FAX: 313.961.0888  
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CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERING DIVISION  
 DIVISION ST OVER ABANDONED GTWRR  
 ROAD PROFILE PLAN

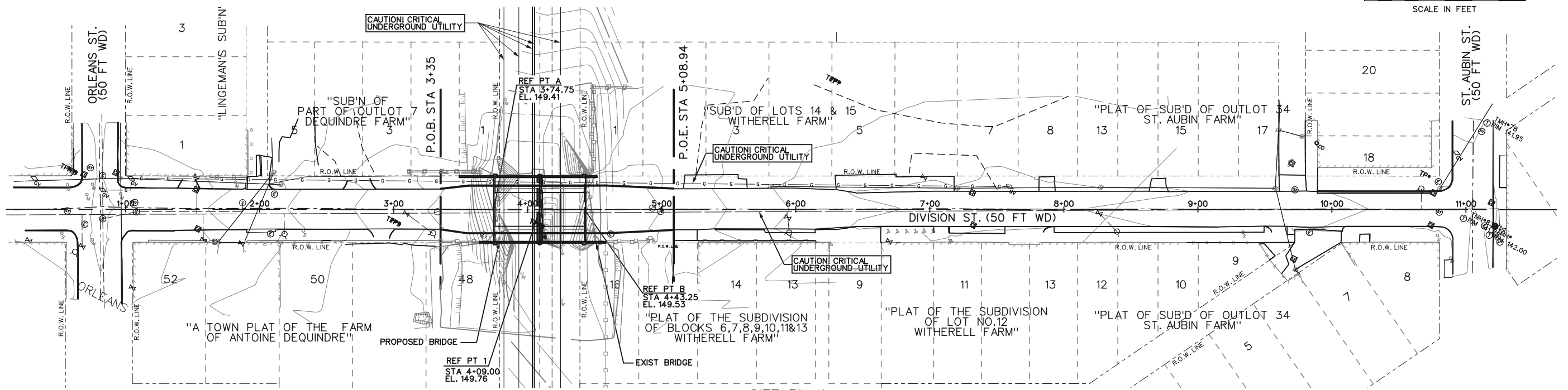
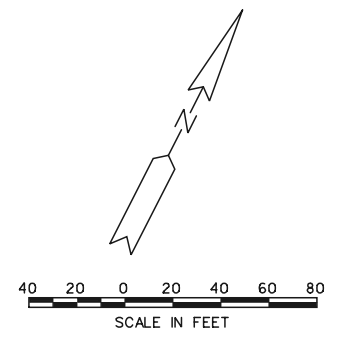
ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-10T
SHEET 7

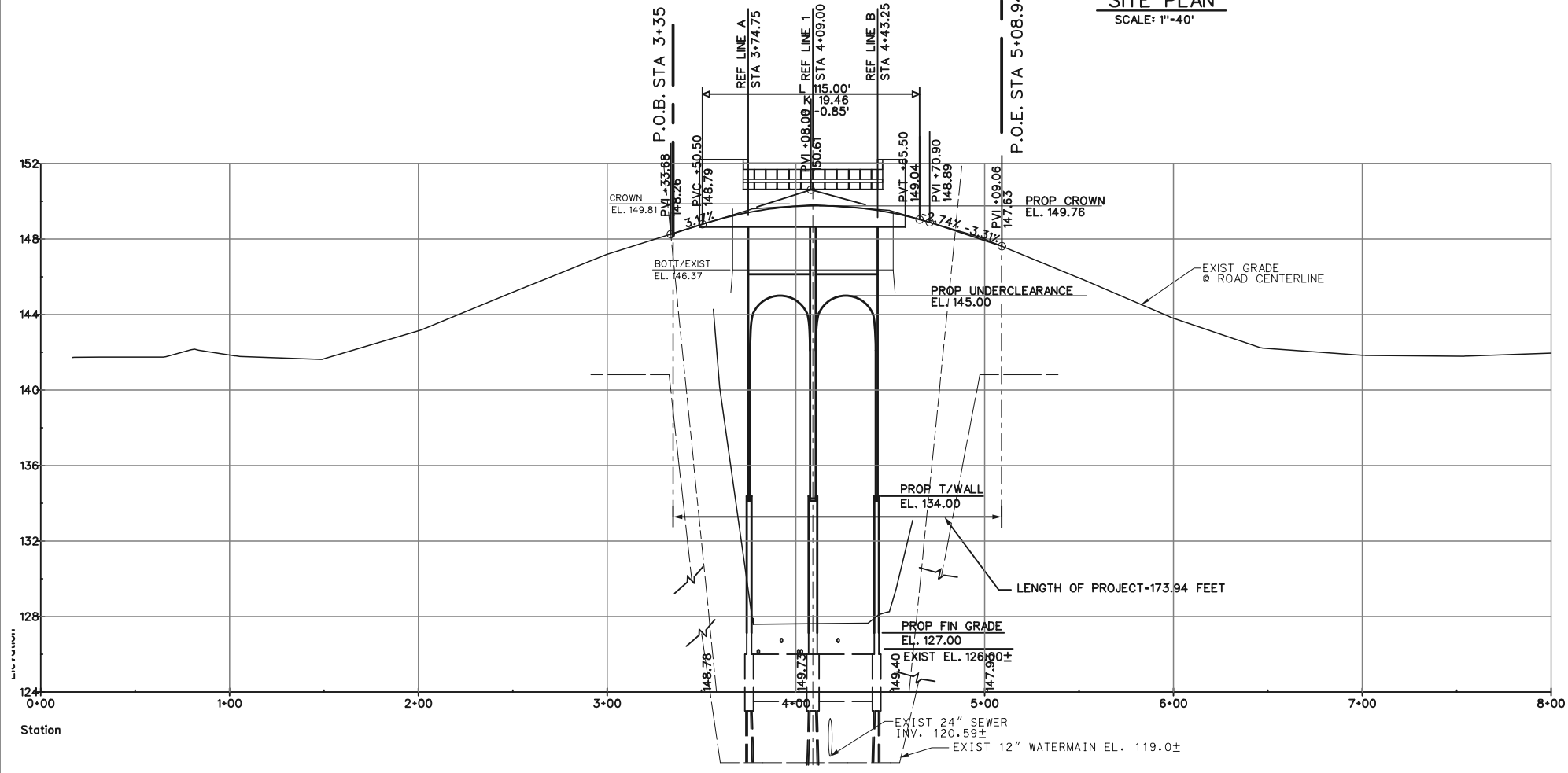
PROJECT MANAGER: Agronowski FIELD BOOK INFORMATION: C:\New Work\Agronowski\0326909\GSP-PLT\Site-Plan.dgn PLOTTED 4/22/2013 10:01:16 AM BY: Agronowski

**BENCHMARKS**  
 BM\*6: ARROW ON FIRST FIRE HYDRANT ON SOUTH SIDE OF DIVISION WEST OF BRIDGE  
 EL. 150.36  
 BM\*7: ARROW ON FIRE HYDRANT AT SOUTH WEST CORNER OF DIVISION AND ORLEANS  
 EL. 144.45  
 BM\*12: STREET SIGN ON EAST SIDE OF ST. AUBIN STREET ACROSS FROM SOUTH WEST CORNER OF DIVISION  
 EL. 142.79

**EXISTING STRUCTURE**  
 EXISTING BRIDGE IS A 2-SPAN, CONCRETE ENCASED STEEL BEAM WITH CONCRETE DECK, CINDER FILL AND CONCRETE SURFACE AND HMA OVERLAY. THERE ARE CONCRETE PIERS AND ABUTMENTS ON ASSUMED SPREAD FOOTINGS. THE ORIGINAL BRIDGE WAS CONSTRUCTED APPROXIMATELY 1930.



**SITE PLAN**  
 SCALE: 1"=40'



**PROFILE**  
 SCALE: VERT 1"=4'  
 HORZ 1"=40'

**NOTES**

- THE WORK COVERED BY THESE PLANS INCLUDES REMOVAL OF EXISTING BRIDGE, MAINTAINING TRAFFIC, CONSTRUCTION OF THE PROPOSED BRIDGE AND APPROACHES TO THE LIMITS SHOWN.
- 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.
- DIVISION ST. TRAFFIC IS TO BE DETOURED OVER OTHER EXISTING ROADS.
- PLAN ELEVATIONS REFER TO CITY OF DETROIT DATUM.

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION DIVISION ST. OVER DEQUINDRE CUT PLAN OF SITE	
ISSUED FOR: _____	DATE: _____
JOB NO. DTE 2025-10T	BY: _____
SHEET 8	DESCRIPTION

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PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED 4/22/2013 11:02:09 AM BY: Agronowski  
 c:\new\_work\Agronowski\10366909\CSB-PL13-SolBoring.dwg

TEST BORING NO. B-01  
 GROUND SURFACE EL. 150 FT DCD  
 (ESTIMATED FROM EXISTING DRAWINGS)


TEST BORING NO. B-01 (CONTINUED)

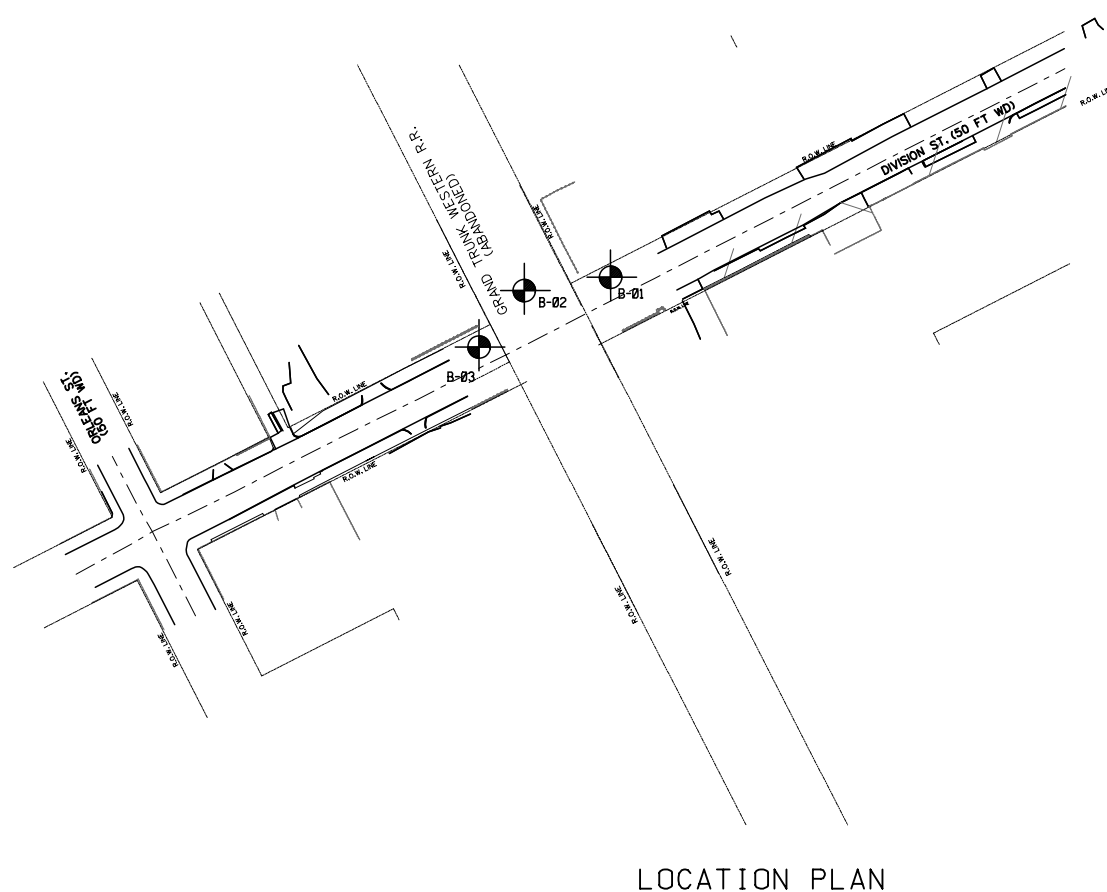
150.0	3	7	16.4	3500*PP	4 inches of ASPHALTIC CEMENT CONCRETE 9 inches of PORTLAND CEMENT CONCRETE	
149.6	2	2	19.5	2000*PP	FILL - Stiff silty clay, some sand, trace to SOME gravel and cinders, brown/dark brown/black (CL)	
148.8	2	3	5	3		
146.5	1	2	143.5	2	FILL - Loose to very loose gravelly medium to coarse sand, trace to some silt, brown, moist (SPG)	
144.0	1	2	141.5	2		
137.0	5	11	136.5	18	12.8 9000+*PP	Hard to very stiff SILTY CLAY, trace to some sand, trace gravel, occasional silty fine sand seams, brown (CL)
131.5	7	12	130.0	24	16.1 6500*PP	
126.5	3	6	122.5	6	15.6 3320	STIFF TO SOFT SILTY CLAY, trace sand and gravel, gray (CL)
121.5	2	4	116.5	3	17.4 1400#TV	
116.5	2	3	111.5	3	17.3 1200#TV	BOTTLING/FOOTING ABUTMENT (B/EAST) EL. 123.0
111.5	1	2	106.5	3	17.7 600#TV	
106.5	0	2	101.5	3	17.5 800#TV	
101.5	1	2	96.5	3	17.5 1000#TV	17.5 1000#TV
96.5	1	2	91.5	3	21.6 4000#TV	
91.5	2	4	86.5	3	18.8 800#TV	18.8 800#TV
86.5	1	3	81.5	3	17.8 1000#TV	
81.5	1	3	76.5	4	18.2 1400#TV	18.2 1400#TV
76.5	2	3	71.5	4	18.1 1400#TV	
71.5	2	4		5	18.6 800#TV	18.6 800#TV

66.5	1	3	21.7	1200#TV	Stiff to soft SILTY CLAY, trace sand and gravel, gray (CL)
61.5	1	4	38.2	560	
56.5	3	3	25.7	800#TV	Hard SILTY SANDY CLAY, trace gravel occasional clayey silt seams below 155 ft, gray (CL)
51.5	0	2	21.2	800#TV	
46.5	0	5	22.1	1200#TV	22.1 1200#TV
41.5	0	5	21.6	1200#TV	
36.5	2	4	20.9	1000#TV	20.9 1000#TV
31.5	4	2	22.1	1200#TV	
26.5	3	8	21.2	1400#TV	21.2 1400#TV
21.5	2	5	23.9	1200#TV	
16.5	2	5	26.1	1200#TV	26.1 1200#TV
11.5	3	7	24.4	1400#TV	
6.5	6	4	26.3	1000#TV	26.3 1000#TV
4.0	62	00	9.3	9000+*PP	
1.5	73	00	11.0	9000+*PP	Hard SILTY SANDY CLAY, trace gravel occasional clayey silt seams below 155 ft, gray (CL)
-3.5	18	30	14.3	8000*PP	
-8.5					BORING TERMINATED AT A DEPTH OF 163.5 FEET BELOW EXISTING GRADE (EL. MINUS 13.5 FEET DCD). BORING TERMINATED ON POSSIBLE BEDROCK.
-13.5					

NOTES:

NO GROUNDWATER ENCOUNTERED DURING DRILLING DRILL RIG: CME 55/CME 75 (AUTOMATIC HAMMER)  
 DRILL METHOD: 2 1/4 INCH HSA/WR  
 GROUNDWATER WAS NOT REPORTED UPON COMPLETION OF DRILLING DUE TO WASH ROTARY DRILLING METHODS BACKFILLED WITH GROUT & PATCH  
 BORING TERMINATED AT A DEPTH OF 163.5 FEET BELOW EXISTING GRADE (EL. MINUS 13.5 FEET DCD). BORING TERMINATED ON POSSIBLE BEDROCK. DATE STARTED: 03-12-13  
 DATE COMPLETED: 03-13-13  
 ENGINEER ON RIG: S.SWAMINATHAN/K.BROWN

LEGEND:  
 APPROXIMATE SOIL BORING LOCATION



IST 6 inch 13 % MC  
 2ND 6 inch 16 UCS (PSF)  
 3RD 6 inch 14 UCS (PSF)

NUMBERS IN CIRCLES DENOTE NUMBER OF BLOWS REQUIRED TO DRIVE A 2 inch O.D. (1 1/2 inch I.D.) SPLIT SPOON SAMPLER 3 SUCCESSIVE 6 inch INCREMENTS USING A 140 LB HAMMER FALLING 2.5 ft.

LABORATORY AND FIELD TEST RESULTS SHOWN INDICATE:  
 MC - MOISTURE CONTENT (PERCENT)  
 UCS - UNCONFINED COMPRESSIVE STRENGTH LABORATORY DETERMINED POUNDS/SQ.FT (PSF)  
 \*PP UNCONFINED COMPRESSIVE STRENGTH USING POCKET PENETROMETER POUNDS/SQ.FT (PSF)  
 \*TV UNCONFINED COMPRESSIVE STRENGTH USING TORVANE TEST POUNDS/SQ.FT (PSF)  
 < > DISTURBED SAMPLE

NR NO RECOVERY

37/0 WHERE THE SAMPLER IS DRIVEN DISTANCES OTHER THAN 18 INCHES, THE DISTANCE IS SHOWN IN THE CIRCLE WITH THE NUMBER OF BLOWS IN THE FORM OF A FRACTION. (DISTANCE IS IN INCHES).

CONSISTENCY WAS DETERMINED BY INSPECTION OF SAMPLES AND SUBSTANTIATED BY SOIL RESISTANCE TO DRILLING TOOLS (CASING OR AUGER). UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) GROUP SYMBOL DETERMINED PER ASTM VISUAL-MANUAL PROCEDURES.

GROUNDWATER LEVELS REPRESENT THE CONDITIONS AT THE TIME THE MEASUREMENTS WERE OBTAINED AND SHOULD BE EXPECTED TO FLUCTUATE THROUGHOUT THE YEAR. GROUNDWATER LEVELS MAY ALSO BE INFLUENCED BY RESIDUAL BORING WATER.

THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT THE SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.

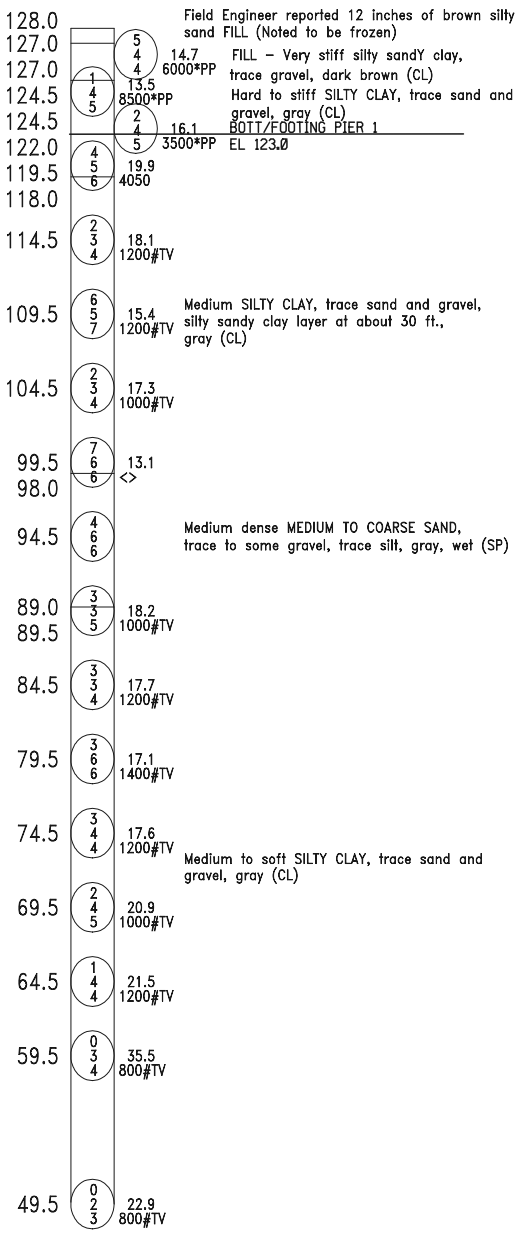
ISSUED FOR:	DATE:	BY:
<p>CITY OF DETROIT                  DEPARTMENT OF PUBLIC WORKS                  CITY ENGINEERING DIVISION                  DIVISION ST. OVER DEQUINDRE CUT                  LOG OF BORING</p>		
<p>JOB NO.                  DTE 2025-10T</p>		<p>DESCRIPTION</p>
<p>SHEET</p>		<p>REV. DATE</p>
<p>9</p>		<p>BY</p>

**SE Somat Engineering**  
 INCORPORATED

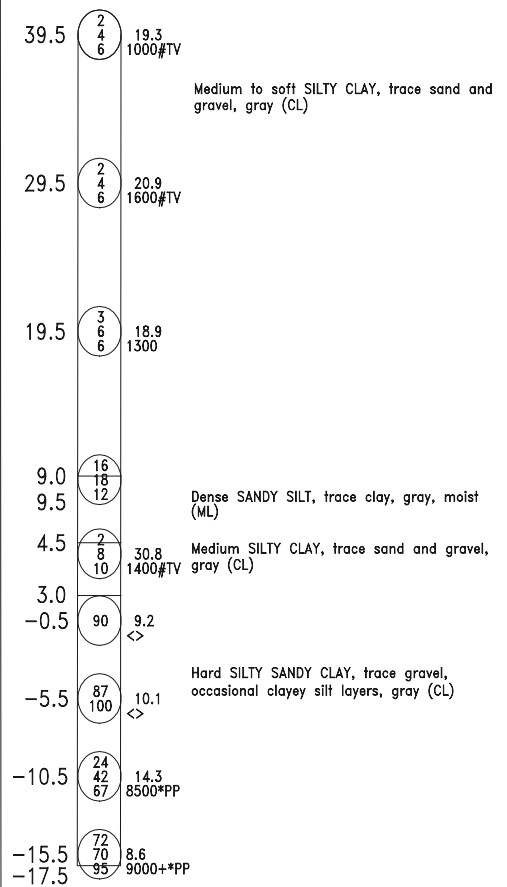
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PROJECT MANAGER: - FIELD BOOK INFORMATION: - PLOTTED 4/22/2013 11:02:37 AM BY: Agronowski  
 c:\new\_work\Agronowski\10366909\CSB-PLT\SolBoringLog2.dgn

TEST BORING NO. B-02  
 GROUND SURFACE EL. 128 FT DCD  
 (ESTIMATED FROM EXISTING DRAWINGS)



TEST BORING NO. B-02 (CONTINUED)



NOTES:  
 GROUNDWATER ENCOUNTERED AT DEPTH 30 FT DURING DRILLING  
 GROUNDWATER WAS NOT REPORTED UPON COMPLETION OF DRILLING DUE TO WASH ROTARY DRILLING METHODS  
 BORING TERMINATED AT A DEPTH OF 145.7 FEET BELOW EXISTING GRADE (EL. MINUS 17.7 FEET DCD). BORING TERMINATED ON POSSIBLE BEDROCK.

DRILL RIG: CME 55 (AUTOMATIC HAMMER)  
 DRILL METHOD: 2 1/4 INCH HSA/WR  
 BACKFILLED WITH: GROUT & PATCH  
 DATE STARTED: 03-05-13  
 DATE COMPLETED: 03-05-13  
 ENGINEER ON RIG: S.SWAMINATHAN

1ST 6 inch 13 % MC  
 2ND 6 inch 16 UCS (PSF)  
 3RD 6 inch 14 UCS (PSF)

NUMBERS IN CIRCLES DENOTE NUMBER OF BLOWS REQUIRED TO DRIVE A 2 inch O.D. (1 1/2 inch I.D.) SPLIT SPOON SAMPLER 3 SUCCESSIVE 6 inch INCREMENTS USING A 140 LB HAMMER FALLING 2.5 ft.

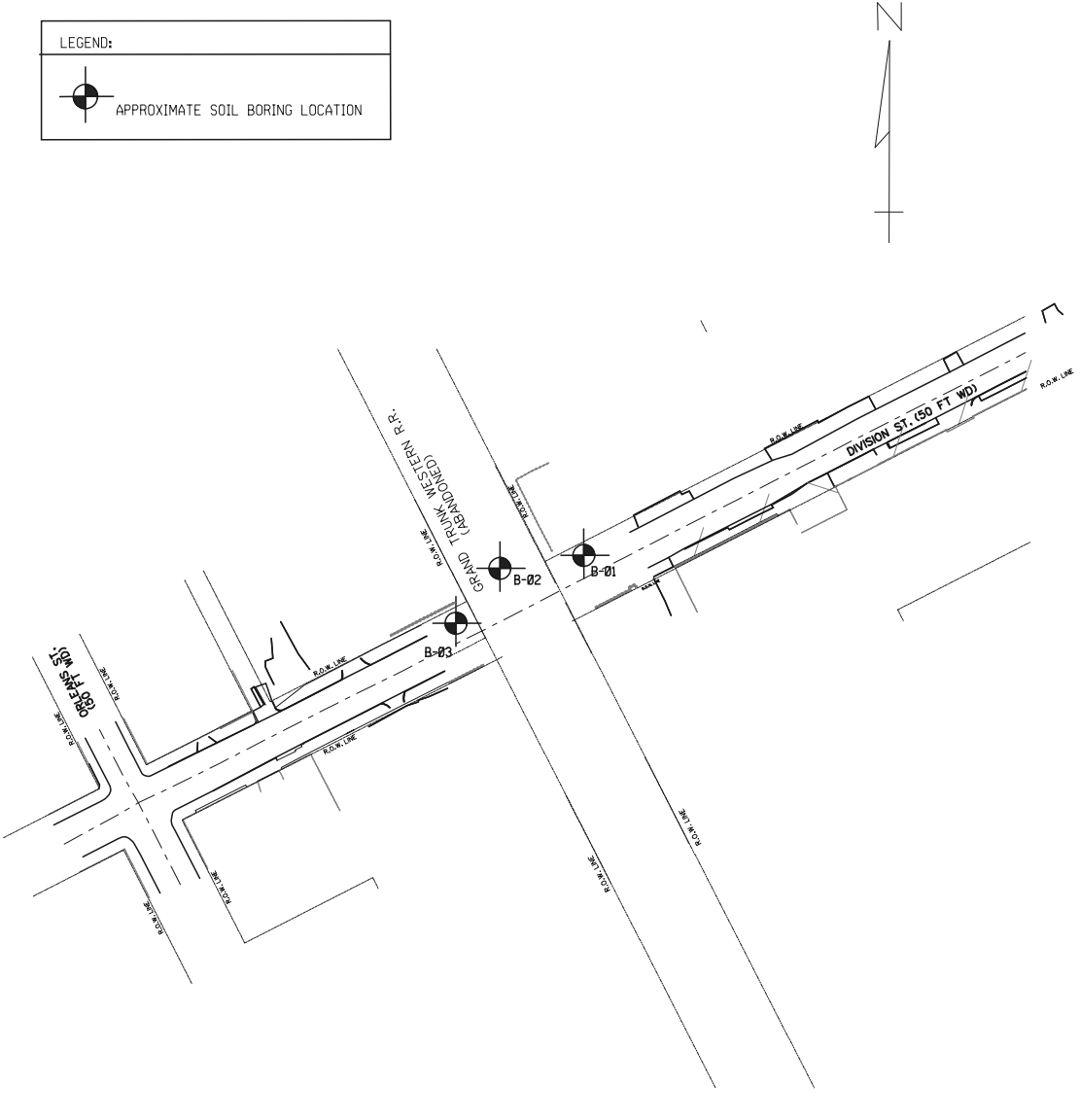
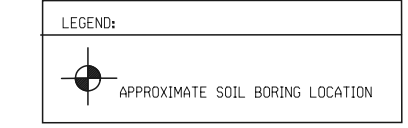
LABORATORY AND FIELD TEST RESULTS SHOWN INDICATE:  
 MC - MOISTURE CONTENT (PERCENT)  
 UCS - UNCONFINED COMPRESSIVE STRENGTH LABORATORY DETERMINED POUNDS/SQ.FT (PSF)  
 \*PP UNCONFINED COMPRESSIVE STRENGTH USING POCKET PENETROMETER POUNDS/SQ.FT (PSF)  
 \*TV UNCONFINED COMPRESSIVE STRENGTH USING TORVANE TEST POUNDS/SQ.FT (PSF)  
 < > DISTURBED SAMPLE

NR NO RECOVERY  
 37/0 WHERE THE SAMPLER IS DRIVEN DISTANCES OTHER THAN 18 inches, THE DISTANCE IS SHOWN IN THE CIRCLE WITH THE NUMBER OF BLOWS IN THE FORM OF A FRACTION. (DISTANCE IS IN INCHES).

CONSISTENCY WAS DETERMINED BY INSPECTION OF SAMPLES AND SUBSTANTIATED BY SOIL RESISTANCE TO DRILLING TOOLS (CASING OR AUGER). UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) GROUP SYMBOL DETERMINED PER ASTM VISUAL-MANUAL PROCEDURES.

THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT THE SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.

GROUNDWATER LEVELS REPRESENT THE CONDITIONS AT THE TIME THE MEASUREMENTS WERE OBTAINED AND SHOULD BE EXPECTED TO FLUCTUATE THROUGHOUT THE YEAR. GROUNDWATER LEVELS MAY ALSO BE INFLUENCED BY RESIDUAL BORING WATER.



REV	DATE	DESCRIPTION

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 CITY ENGINEERING DIVISION  
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 LOG OF BORING

ISSUED FOR:	DATE:	BY:
JOB NO.	DTE 2025-10T	
SHEET	10	



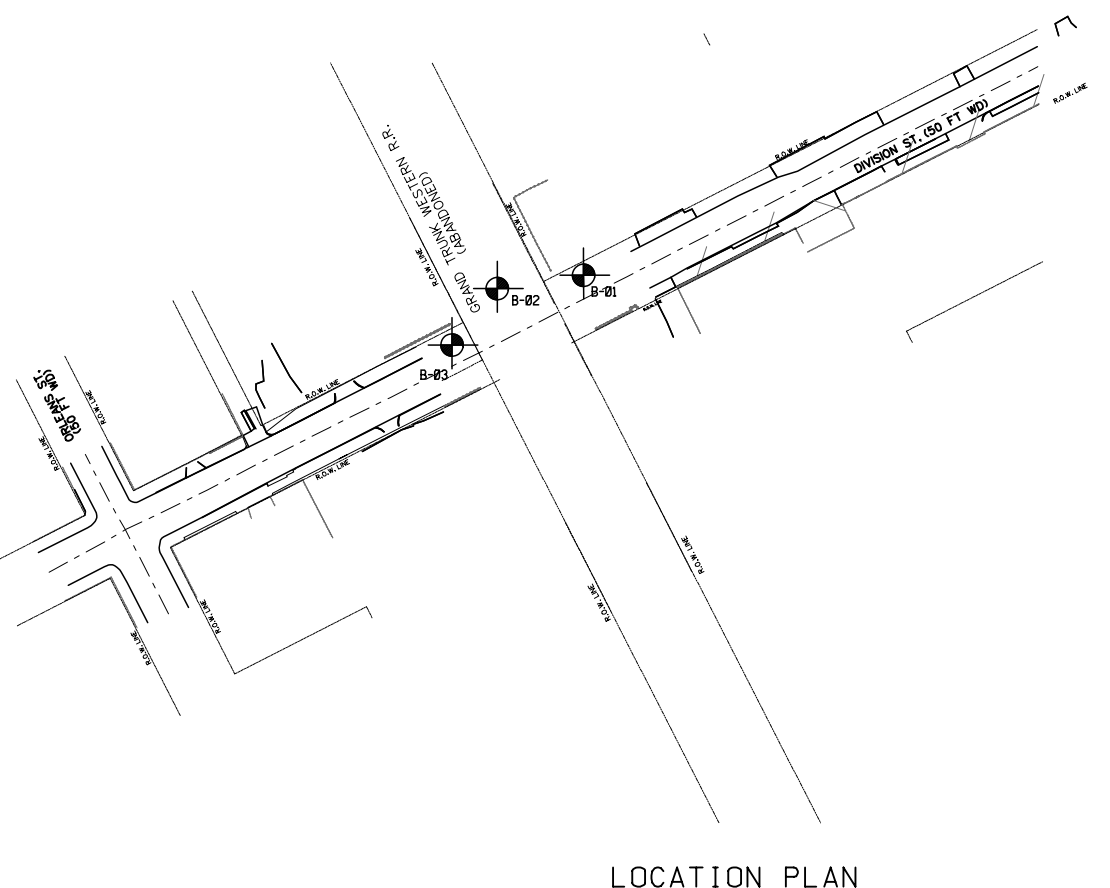
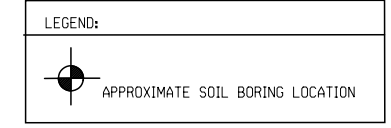
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TEST BORING NO. B-03  
GROUND SURFACE EL. 150 FT DCD  
(ESTIMATED FROM EXISTING DRAWINGS)

TEST BORING NO. B-03(CONTINUED)

150.0	6 inches of ASPHALTIC CEMENT CONCRETE	
149.5	11 inches of PORTLAND CEMENT concrete	
149.1	7 10 12	
149.0	FILL - Medium dense medium to coarse sand, trace to some silt, clay and gravel, trace brick pieces, brown, moist (SP/SM)	
146.5	8 9	
146.5	20.9	
144.5	2 2	
144.3	20.5	
141.5	FILL - Silty clay, trace to some sand, sand, trace gravel, occasional cinder pockets, mottled brown and gray to brown (CL)	
138.0	1 2 1	
136.5	24.3	
131.5	5 9 7	
129.0	22.3	
126.5	Very stiff SILTY CLAY, trace sand and gravel, 5-inch gravel layer at 12.9 ft, brown (CL)	
121.5	8 11 20	
116.5	15.4 7000*PP	
111.5	4 9	
106.5	15.0 3560	
101.5	<b>BOTT/FOOTING ABUTMENT</b>	
96.5	2 4 5	
91.5	16.6 2000*PP	
90.0	EL 123.0	
86.5	0 9 3	
81.5	17.4 1200*TV	
76.5	0 5 5	
71.5	16.4 1000*TV	
71.5	Alternating layers of stiff to soft SILTY CLAY and SILTY SANDY CLAY, trace gravel, occasional silt fine sand seams, gray (CL)	
71.5	3 3 6	
71.5	13.6 2500*PP	
71.5	2 2 2	
71.5	12.5 800*TV	
71.5	6 2 3	
71.5	19.8 800*TV	
71.5	2 4 4	
71.5	20.8 1000*TV	
71.5	4 3 4	
71.5	16.0	
71.5	7 4 4	
71.5	13.9 1000*TV	
71.5	LOOSE SILTY CLAYEY FINE SAND, trace gravel, gray, wet (SC/SM)	
71.5	3 9 15	
71.5	76.5	
71.5	19.1 1280	

66.5	1 3 5	20.5 1000*TV
61.5	0 2 3	31.2 600*TV
56.5	0 1 4	23.9 1000*TV
51.5	1 4 4	23.1 800*TV
46.5	0 3 6	20.2 1600*TV
41.5	0 2 4	21.6 1200*TV
36.5	0 3 5	20.4 1600*TV
31.5	2 4 5	21.5 800*TV
26.5	2 5 5	21.4 1000*TV
21.5	4 6 8	21.8 800*TV
16.5	2 4 6	25.7 1000*TV
11.5	3 5 7	23.6 800*TV
6.5	15 22 15	21.0
3.0	73 100	9.6 9000+*PP
1.5	76 100	9.6 9000+*PP
-3.5	24 50 50	25.8 5500*PP
-8.5	60	11.1 9000+*PP
-13.5		



NOTES:  
GROUNDWATER ENCOUNTERED AT DEPTH 60 FT DURING DRILLING  
DRILL RIG: CME 75 (AUTOMATIC HAMMER)  
DRILL METHOD: 2 1/4 INCH HSA/WR  
BACKFILLED WITH GROUT & PATCH  
DATE STARTED: 03-06-13  
DATE COMPLETED: 03-11-13  
ENGINEER ON RIG: S.SWAMINATHAN/C.WEIRAUCH

GROUNDWATER WAS NOT REPORTED UPON COMPLETION OF DRILLING  
DUE TO WASH ROTARY DRILLING METHODS

BORING TERMINATED AT A DEPTH OF 164.0 FEET BELOW EXISTING GRADE (EL. MINUS 14.0 FEET DCD).

IST 6 inch 13 % MC  
2ND 6 inch 16 UCS (PSF)  
3RD 6 inch 14 UCS (PSF)

NUMBERS IN CIRCLES DENOTE NUMBER OF BLOWS REQUIRED TO DRIVE A 2 inch O.D. (1 1/2 inch I.D.) SPLIT SPOON SAMPLER 3 SUCCESSIVE 6 inch INCREMENTS USING A 140 LB HAMMER FALLING 2.5 ft.

LABORATORY AND FIELD TEST RESULTS SHOWN INDICATE:

MC - MOISTURE CONTENT (PERCENT)  
UCS - UNCONFINED COMPRESSIVE STRENGTH LABORATORY DETERMINED POUNDS/SQ.FT (PSF)  
\*PP - UNCONFINED COMPRESSIVE STRENGTH USING POCKET PENETROMETER POUNDS/SQ.FT (PSF)  
\*TV - UNCONFINED COMPRESSIVE STRENGTH USING TORVANE TEST POUNDS/SQ.FT (PSF)  
< > DISTURBED SAMPLE

NR NO RECOVERY

37/0 WHERE THE SAMPLER IS DRIVEN DISTANCES OTHER THAN 18 INCHES, THE DISTANCE IS SHOWN IN THE CIRCLE WITH THE NUMBER OF BLOWS IN THE FORM OF A FRACTION. (DISTANCE IS IN INCHES).

CONSISTENCY WAS DETERMINED BY INSPECTION OF SAMPLES AND SUBSTANTIATED BY SOIL RESISTANCE TO DRILLING TOOLS (CASING OR AUGER), UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) GROUP SYMBOL DETERMINED PER ASTM VISUAL-MANUAL PROCEDURES.

THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT THE SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.

GROUNDWATER LEVELS REPRESENT THE CONDITIONS AT THE TIME THE MEASUREMENTS WERE OBTAINED AND SHOULD BE EXPECTED TO FLUCTUATE THROUGHOUT THE YEAR. GROUNDWATER LEVELS MAY ALSO BE INFLUENCED BY RESIDUAL BORING WATER.

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED 4/22/2013 11:03:33 AM BY: Agronowski

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-10T

SHEET 11

CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERING DIVISION  
DIVISION ST. OVER DEQUINDRE CUT  
LOG OF BORING

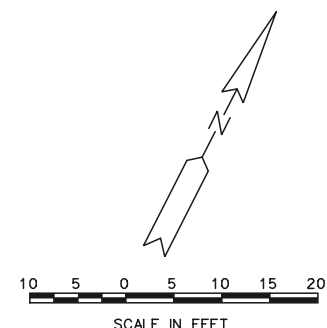
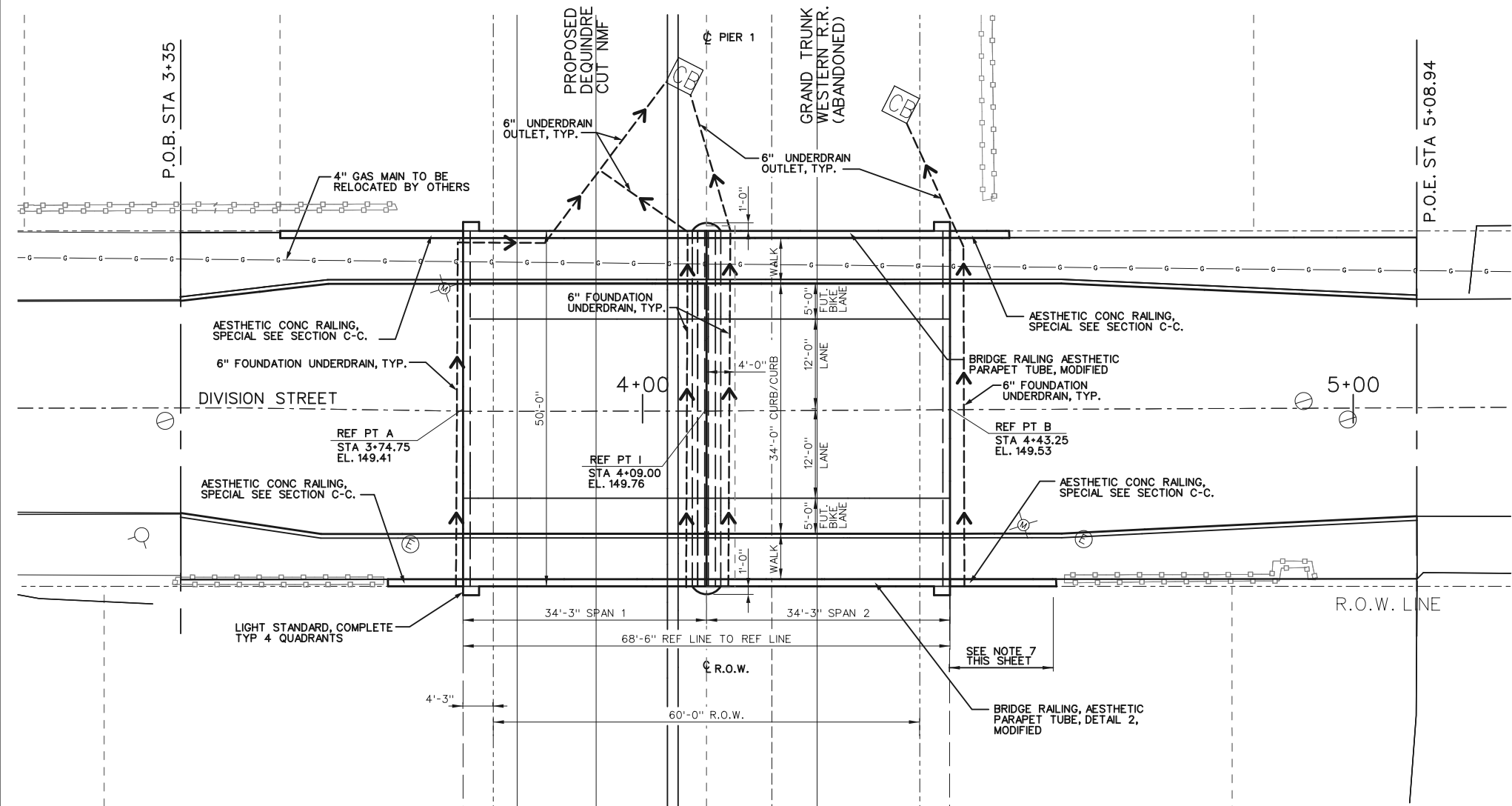
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DESCRIPTION  
DATE  
REV.  
BY



PROJECT MANAGER: Agronowski, J. DATE: 4/19/2013 8:49:00 AM BY: Agronowski



**NOTES:**

THE DESIGN OF THIS STRUCTURE IS BASED ON 1.2 TIMES THE CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATION HL-93 LOADING WITH THE EXCEPTION THAT THE DESIGN TANDEM PORTION OF THE HL-93 LOAD DEFINITION SHALL BE REPLACED BY A SINGLE 60 KP AXLE LOAD BEFORE APPLICATION OF THIS 1.2 FACTOR. THE RESULTING LOAD IS DESIGNATED HL-93 MOD. LIVE LOAD PLUS DYNAMIC LOAD ALLOWANCE DEFLECTION DOES NOT EXCEED 1/1000 OF SPAN LENGTH.

CONCRETE SURFACE COATING SHALL BE APPLIED TO EXPOSED FACES OF RAILING, ARCH FASCIAS AND PIER FASCIA, EXPOSED RETAINING WALLS AND BRIDGE RAILING SHALL ALSO BE COATED. SEE DETAIL SHEETS FOR LIMITS OF COVERAGE.

EXISTING BRIDGE NAMEPLATES ARE TO BE SALVAGED ON SITE AND SHALL BE GIVEN TO THE ENGINEER AND BECOME THE PROPERTY OF THE CITY OF DETROIT.

SEE REMOVAL SHEETS FOR LIMIT OF EXISTING STRUCTURE REMOVALS.

REMOVAL OF BRIDGE SUPERSTRUCTURE, CONCRETE PIERS AND CONCRETE ABUTMENTS SHALL BE PAID FOR AS "STRUCTURE, REM PORTIONS, MODIFIED"

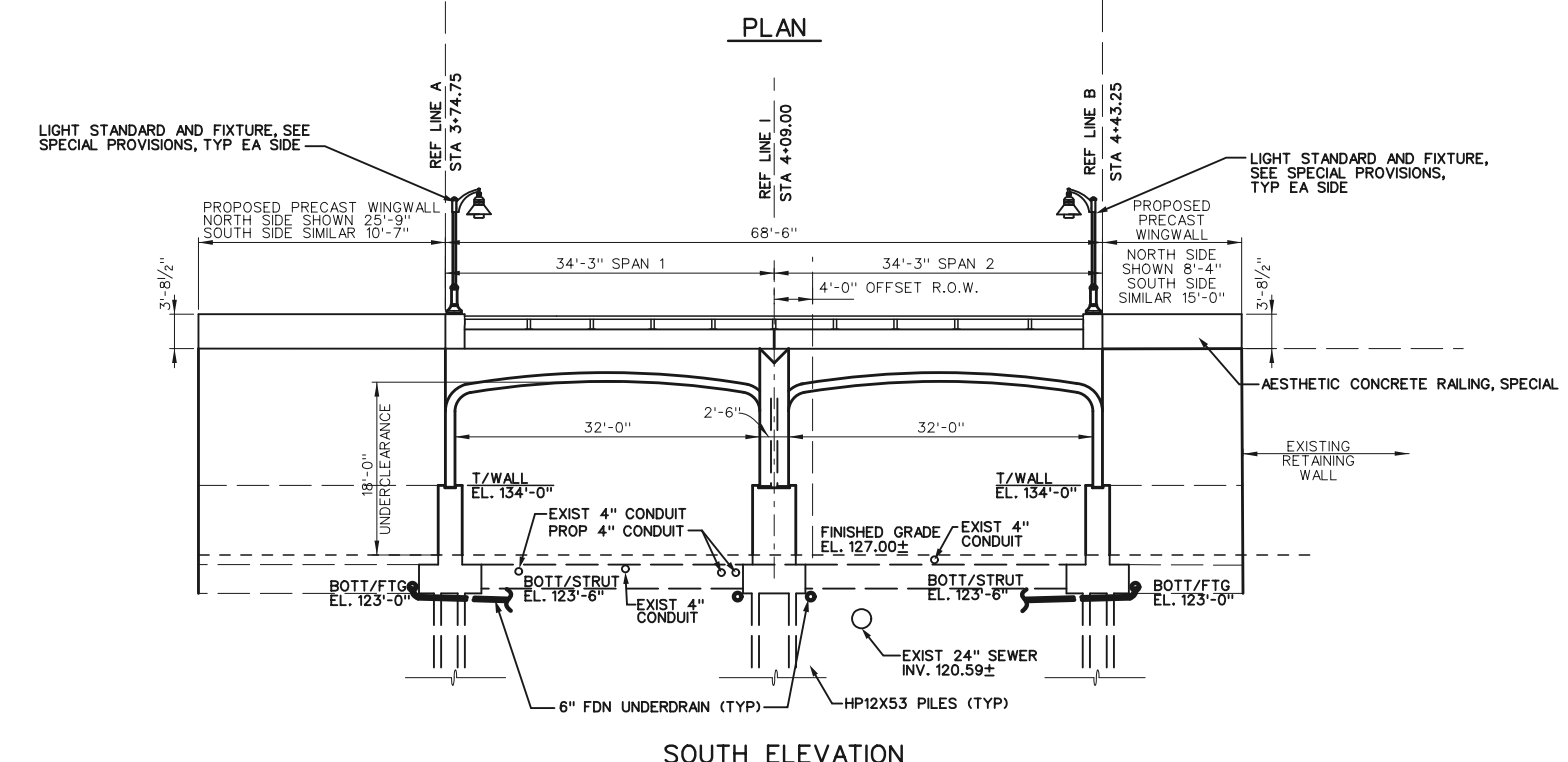
REMOVAL OF PORTIONS OF CONCRETE RETAINING WALL SHALL BE PAID FOR AS "STRUCTURE, REM PORTIONS, MODIFIED".

1929 PLANS INDICATE EXISTING BLDG FDN ADJACENT TO BRIDGE. IT IS UNKNOWN IF BLDG FOUNDATIONS HAVE PREVIOUSLY BEEN REMOVED. IF FOUNDATIONS ARE ENCOUNTERED, CONTRACTOR SHALL REMOVE WITH CAUTION-WITHIN LIMITS OF GRADING EASEMENT. BACKFILL WITH STRUCTURE BACKFILL AND COMPACT, PER STD. SPECIFICATIONS. REMOVAL SHALL BE INCLUDED IN PAY ITEM "STRUCTURES, REM PORTIONS, MODIFIED"

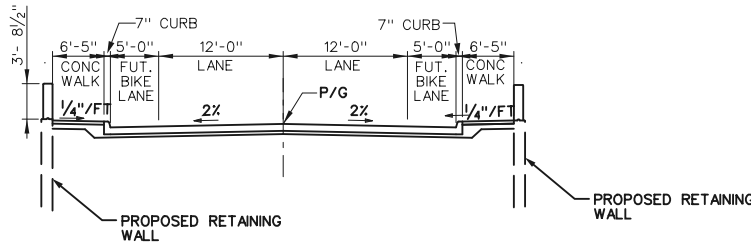
EXISTING PLANS DO NOT INDICATE TIMBER PILES. IF EXISTING TIMBER PILES ARE LOCATED WITHIN THE PROPOSED FOOTINGS, THE CONTRACTOR SHALL DO THE FOLLOWING WORK:

- IF THE EXISTING PILE IS IN CONFLICT WITH PROPOSED PILING, IT SHALL BE REMOVED.
- IF EXISTING PILE IS NOT IN CONFLICT WITH PROPOSED, THE EXISTING PILE SHALL BE CUT DOWN 1'-6" BELOW BOTTOM OF PROPOSED FOOTING.

THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "STRUCTURES, REM PORTIONS, MODIFIED".



MISCELLANEOUS QUANTITIES		
1	LS	MOBILIZATION
1	LS	AUDIO-VISUAL FILMING
1	LS	PROJECT CLEANUP
1	LS	STRUCTURES, REM PORTIONS, MODIFIED
1186	CYD	BACKFILL, STRUCTURE, CIP
1144	CYD	EXCAVATION, FDN
3	EA	EROSION CONTROL, INLET PROTECTION, FABRIC DROP
550	FT	EROSION CONTROL, SILT FENCE
13	SYD	SLOPE RESTORATION, TYPE A
210	FT	UNDERDRAIN, FDN, 6 INCH
85	FT	UNDERDRAIN OUTLET, 6 INCH
3	EA	DR STRUCTURE TAP, 6 INCH



ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-10T

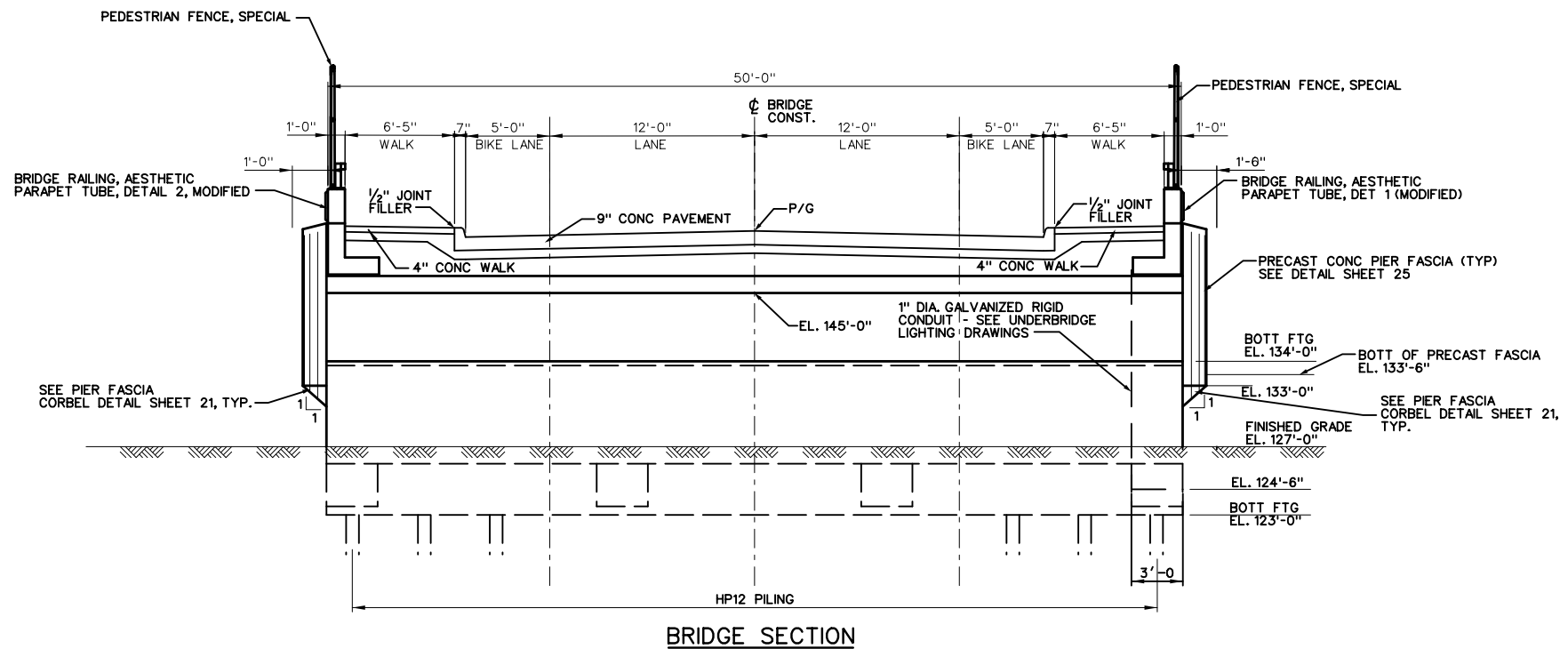
SHEET 12

DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERING DIVISION  
DIVISION ST. OVER DEQUINDRE CUT  
GENERAL PLAN OF STRUCTURE

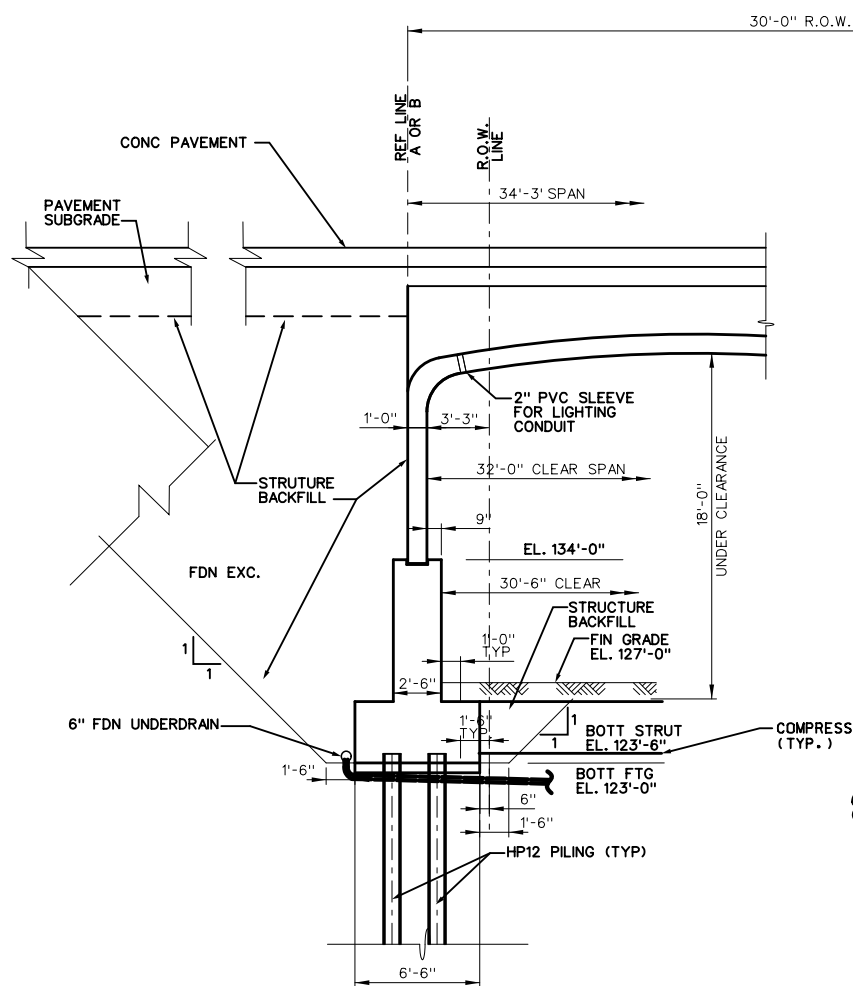
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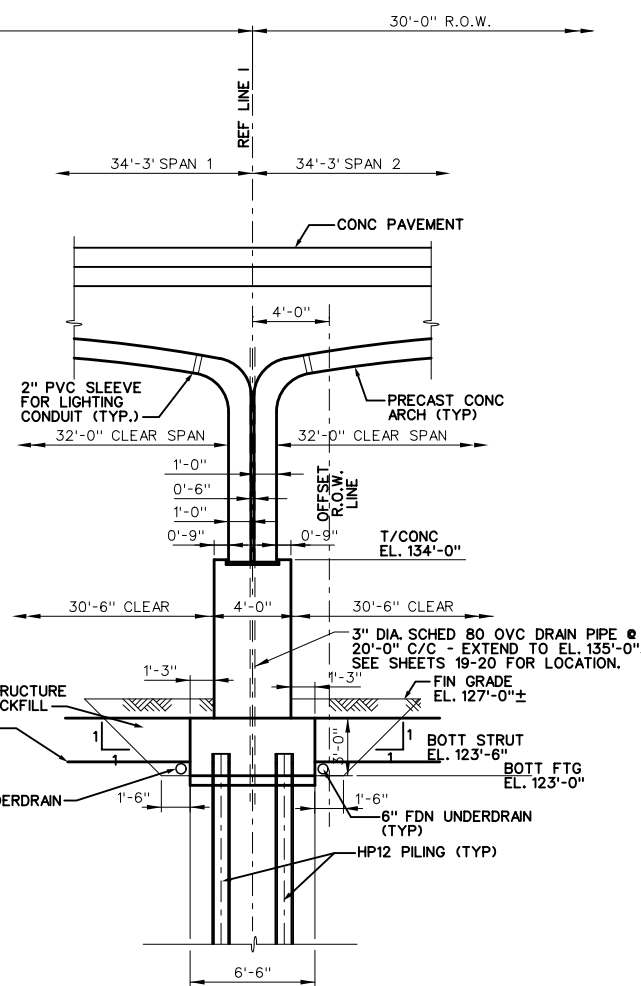
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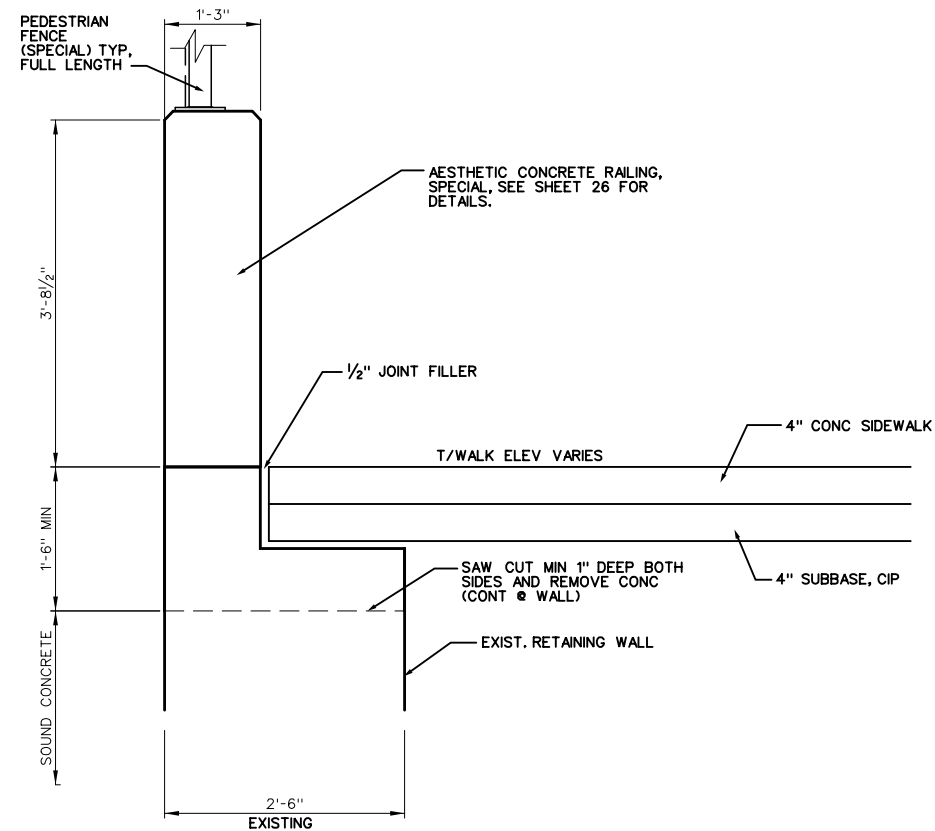
**BRIDGE SECTION**



**TYPICAL ABUTMENT SECTION**



**TYPICAL PIER SECTION**



**SECTION C-C**  
NO SCALE

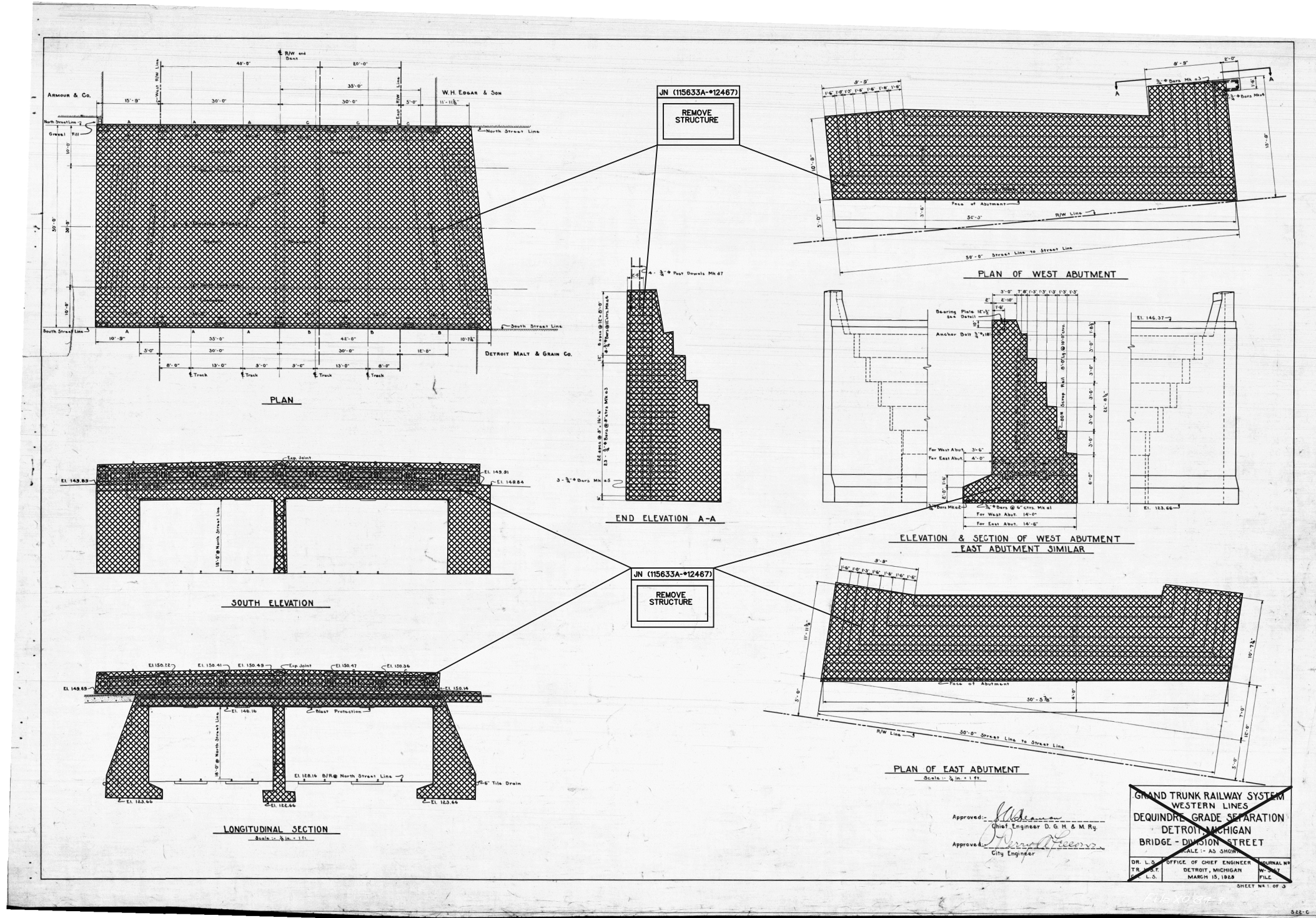
NO.	DATE	DESCRIPTION	BY

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 500 Griswold, Suite 2500  
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 FAX: 313.961.0888  
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CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERING DIVISION  
 DIVISION ST. OVER DEQUINDRE CUT  
 PLAN OF STRUCTURE DETAILS

ISSUED FOR:	DATE:	BY:
JOB NO.	DTE 2025-10T	
SHEET	13	

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**REMOVAL NOTE**

JOB NO. (115633A-#12467)

DURING BRIDGE REMOVAL OPERATIONS, CARE SHALL BE TAKEN BY THE CONTRACTOR TO AVOID DAMAGING THE ADJACENT BUILDINGS THAT ARE TO REMAIN. DAMAGE TO THE BUILDINGS CAUSED BY CONTRACTOR REMOVAL OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE.

**REMOVAL SHEET**

JOB NO. (115633A-#12467)

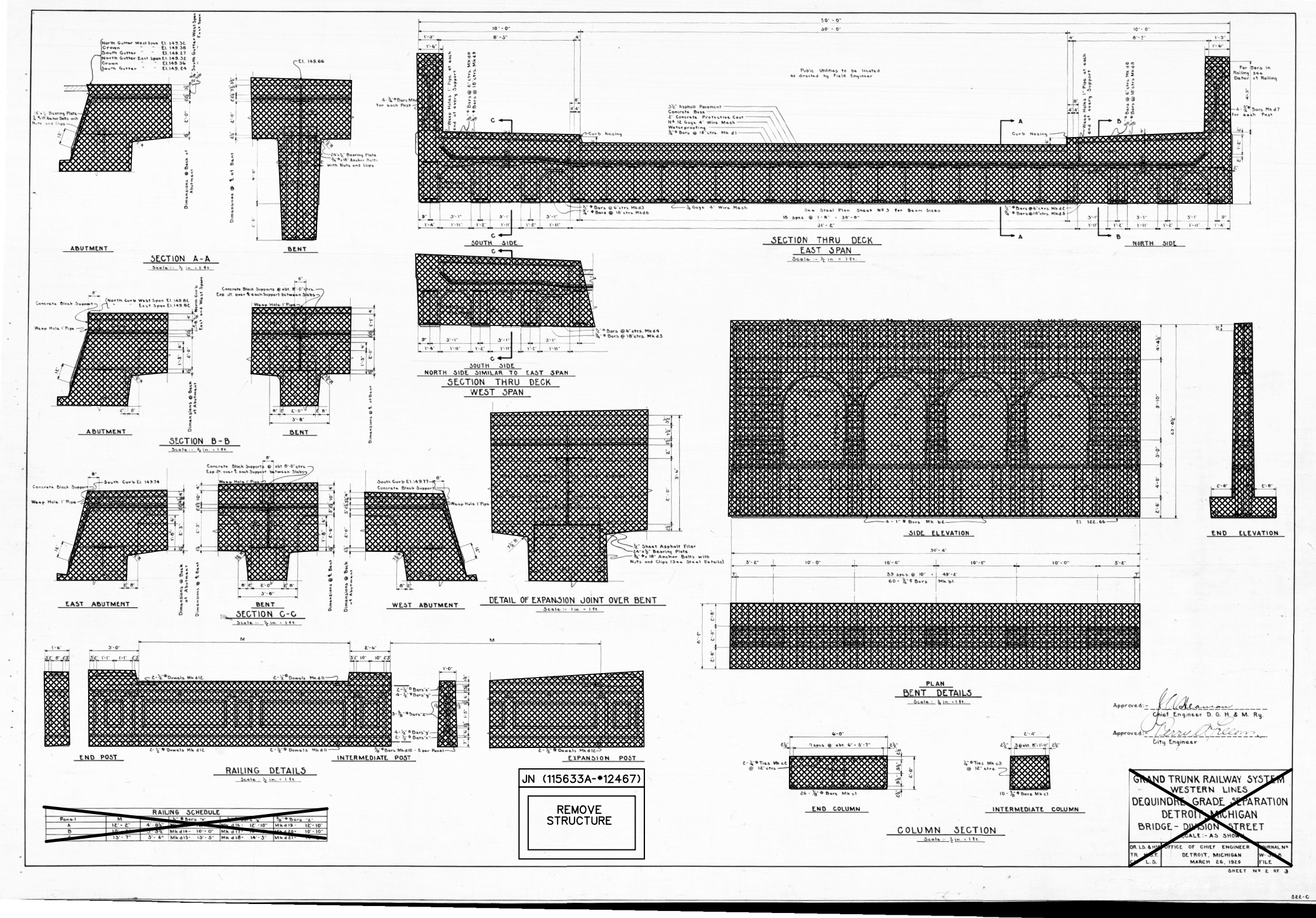
THE ONLY ITEMS OF WORK TO BE DONE FROM THIS SHEET ARE IDENTIFIED BY USING THE LEGEND BELOW, LABELED WITH THIS PROJECT'S JOB NUMBER.

PROPOSED WORK  
 DENOTES REMOVAL PORTIONS

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION DIVISION ST. OVER DEQUINDRE CUT EXISTING BRIDGE PLANS REMOVAL SHEET	
NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:	WADETRIM 500 Griswold, Suite 2500 Detroit, Michigan 48226 313.961.3850 FAX: 313.961.1888 www.wadetrिम.com
ISSUED FOR:	DATE: BY:
JOB NO. DTE 2025-10T	
SHEET	14
REV. DATE	DESCRIPTION

PROJECT MANAGER: FIELD BOOK INFORMATION: CD:\work\agrowowski\0326909\SDP-PLTS-REMOVAL.rvt

PLOTTED 4/2/2013 11:03:18 AM BY: Agrowowski



GRAND TRUNK RAILWAY SYSTEM  
WESTERN LINES  
DEQUINDRE GRADE SEPARATION  
DETROIT, MICHIGAN  
BRIDGE - DIVISION STREET  
SCALE - AS SHOWN

APPROVED: [Signature] Chief Engineer D. G. H. & M. Ry.  
APPROVED: [Signature] City Engineer

DR. L. A. & SONS, INC. OFFICE OF CHIEF ENGINEER  
175 W. WOODWARD AVE. DETROIT, MICHIGAN 48226  
L.S. MARCH 26, 1929 FILE  
SHEET NO. 2 OF 3

### REMOVAL NOTE

JOB NO. (115633A-12467)

DURING BRIDGE REMOVAL OPERATIONS, CARE SHALL BE TAKEN BY THE CONTRACTOR TO AVOID DAMAGING THE ADJACENT BUILDINGS THAT ARE TO REMAIN. DAMAGE TO THE BUILDINGS CAUSED BY CONTRACTOR REMOVAL OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE.

### REMOVAL SHEET

JOB NO. (115633A-12467)

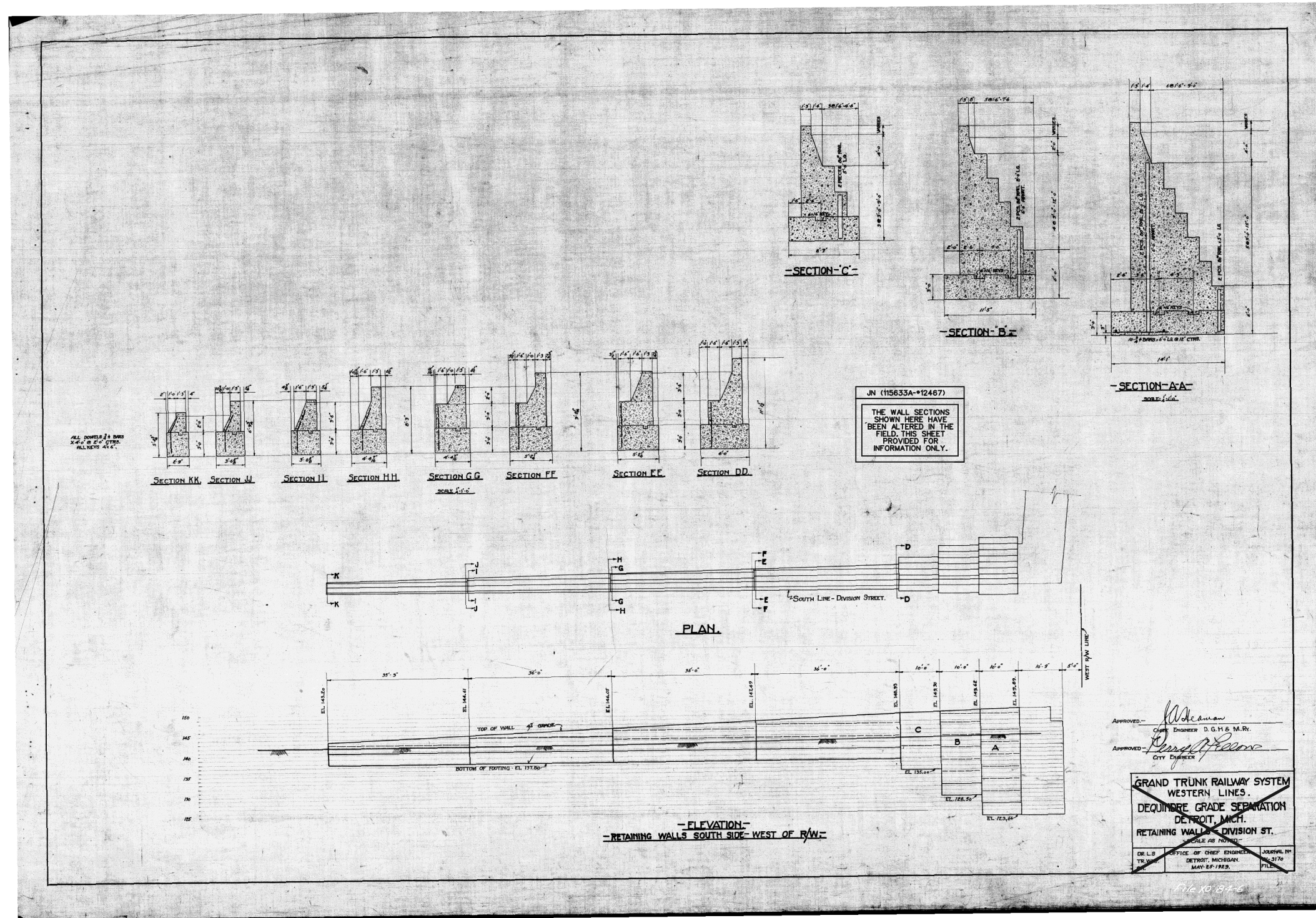
THE ONLY ITEMS OF WORK TO BE DONE FROM THIS SHEET ARE IDENTIFIED BY USING THE LEGEND BELOW, LABELED WITH THIS PROJECT'S JOB NUMBER.

PROPOSED WORK  
DENOTES REMOVAL PORTIONS

**CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERING DIVISION  
DIVISION ST. OVER DEQUINDRE CUT  
EXISTING BRIDGE PLANS  
REMOVAL SHEET**

ISSUED FOR:	DATE:	BY:
JOB NO. DTE 2025-10T		
SHEET		

REV.	DATE	DESCRIPTION	BY



APPROVED: *[Signature]*  
 Chief Engineer D. G. H. S. M. R.  
 APPROVED: *[Signature]*  
 City Engineer

~~GRAND TRUNK RAILWAY SYSTEM  
 WESTERN LINES.  
 DEQUINDRE GRADE SEPARATION  
 DETROIT, MICH.  
 RETAINING WALL - DIVISION ST.  
 SCALE AS NOTED~~

DR. L. B. TRACY, OFFICE OF CHIEF ENGINEER, DETROIT, MICHIGAN, MAY 27, 1925, JOURNAL NO. 10,379

EXISTING

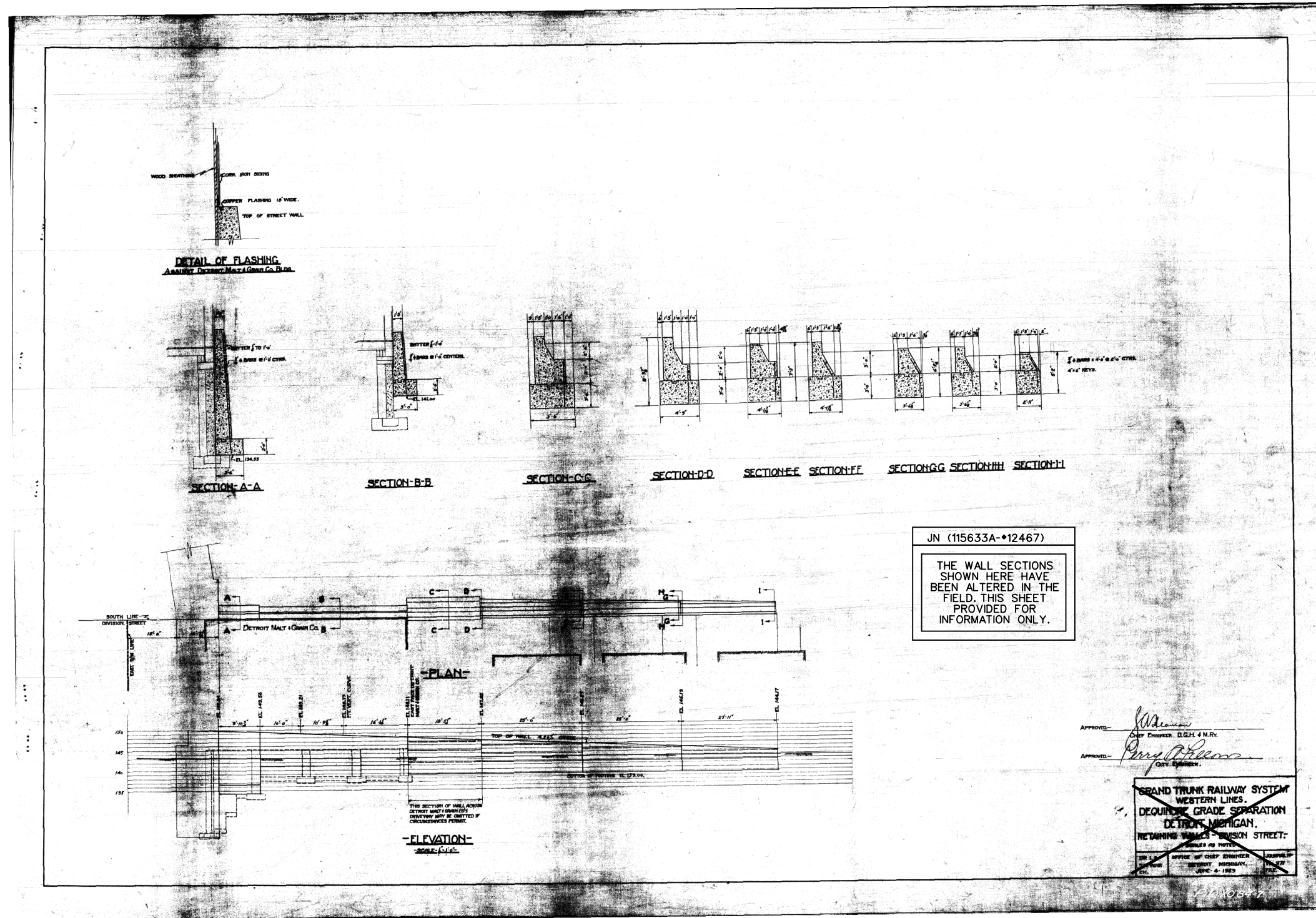
JOB NO. (115633A-#12467)  
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JOB NO. DTE 2025-10T  
 SHEET

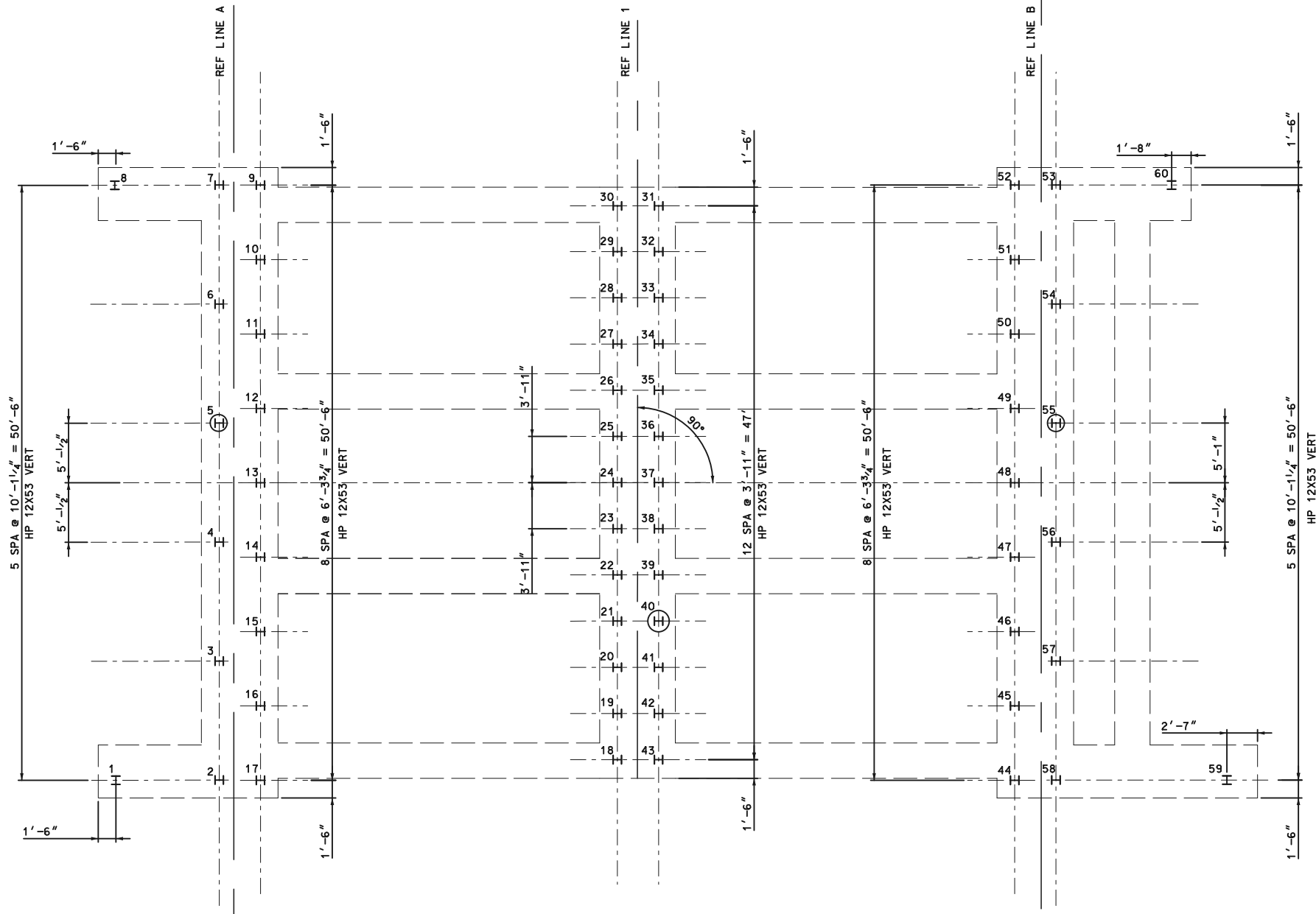
CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION DIVISION ST. OVER DEQUINDRE CUT EXISTING BRIDGE PLANS REMOVAL SHEET		NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED: <b>WADETRIM</b> 500 Griswold, Suite 2500 Detroit, MI 48226 313.961.3850 FAX: 313.961.0888 www.wadetrिम.com Building relationships on a foundation of excellence.
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SHEET	REV.	DATE
16		





EXISTING	
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SHEET	17
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WADETRIM 500 Griswold, Suite 2500 Detroit, MI 48226 313.961.3850 FAX: 313.961.1888 www.wadetrिम.com Building relationships on a foundation of excellence.	MUST HAVE PER CONSTRUCTION UNLESS SIGNED AND DATED: DATE REV. DESCRIPTION BY



PILE PLAN

--DENOTES VERTICAL PILES.  
 --DENOTES VERTICAL TEST PILES.

MISCELLANEOUS QUANTITIES		
1020	FT	PREBORE, FDN PILING
1	LS	PILE DRIVING EQUIPMENT, FURN
7480	FT	PILE, STEEL FURN AND DRIVEN, 12 INCH
3	EA	TEST PILE, STEEL, 12 INCH
60	EA	PILE POINT, STEEL
1	EA	TEST PILE, FURN DYNAMIC ANALYSIS EQUIPMENT
3	EA	TEST PILE, DYNAMIC ANALYSIS
1	LS	MONITORING VIBRATIONS
67	CYD	FLOWABLE FILL
187	EA	PILE, STEEL, SPLICE

NOTES:

DRIVE ALL PILES TO A NOMINAL PILE DRIVING RESISTANCE NOT LESS THAN OF 350 KIPS, NEGLECTING DOWNDRAGE (270 KIPS INCLUDING DOWNDRAGE). DETERMINE NOMINAL PILE DRIVING RESISTANCE (R<sub>ndr</sub>) USING DYNAMIC TEST WITH SIGNAL MATCHING (P.D.A. TESTING).  
 THE ESTIMATED PILE LENGTH IS BASED ON THE STATIC ANALYSIS.  
 STEEL PILES SHALL BE HP 12X53.  
 PILES ARE TO BE DRIVEN TO SUCH ACCURACY THAT THE ENDS OF THE PILES TO BE EMBEDDED IN THE CONCRETE ARE WITHIN 3" OF THE LOCATION SHOWN ON THE PLANS.  
 USE STEEL FOR H-PILES THAT HAVE A YIELD STRENGTH NOT LESS THAN 50,000 PSI.  
 THE ESTIMATED FACTORED DOWNDRAGE AFTER PILE DRIVING IS 80 KIPS. THE REDUCED FACTORED RESISTANCE (R<sub>stgt</sub>) INCLUDING POTENTIAL FOR DOWNDRAGE WITH PDA VERIFICATION IS 175 KIPS  
 ALL PILES SHALL BE PREBORED TO EL. 106'-0" OR MINIMUM TEN FEET BELOW WATERMAIN INVERT, WHICHEVER IS GREATER. FILL PREBORE WITH FLOWABLE FILL AFTER PILE INSTALLATION.  
 ALL PILES SHALL BE DRIVEN WITH PROTECTIVE CAST STEEL PILE POINTS. SEE SPECIAL PROVISION FOR DETAILS.  
 ESTIMATED PILE TIP ELEVATIONS:  
 -ABUTMENT A = EL. 2.00 FT  
 -PIER 1 = EL. -3.00 FT  
 -ABUTMENT B = EL. 2.00 FT

STEEL H-PILES: HP 12X53							
LOCATION	PILE TYPE	NUMBER OF PILES	ESTIMATED LENGTH FURNISHED & DRIVEN		PILE POINTS (EACH)	SPLICES (EACH)	CUT-OFF ELEV.
			EACH LFT	TOTAL LFT			
ABUT A	TEST	1	132	132	1		123'-6"
	VERTICAL	16	122	1952	16		123'-6"
PIER 1	TEST	1	137	137	1		123'-6"
	VERTICAL	25	127	3175	25		123'-6"
ABUT B	TEST	1	132	132	1		123'-6"
	VERTICAL	16	122	1952	16		123'-6"
TOTAL				7480	60	187	

REV #	DATE	DESCRIPTION	BY

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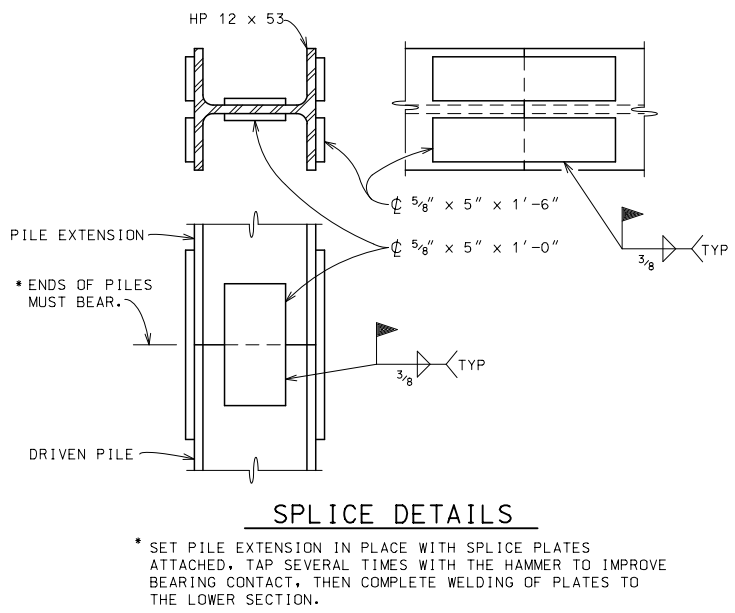
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 313.961.3650  
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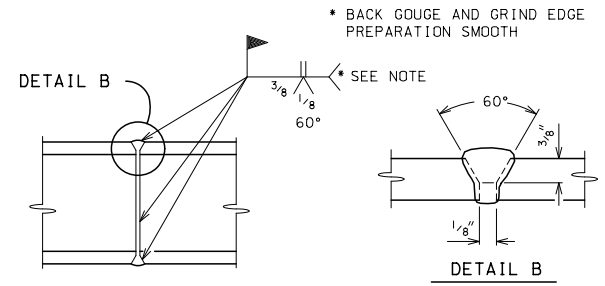
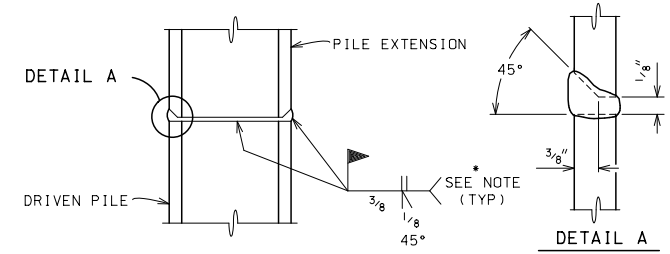
CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERING DIVISION  
 DIVISION ST. OVER DEQUINDRE CUT  
 PILE PLAN

ISSUED FOR: DATE: BY:
JOB NO. DTE 2025-10T
SHEET 18

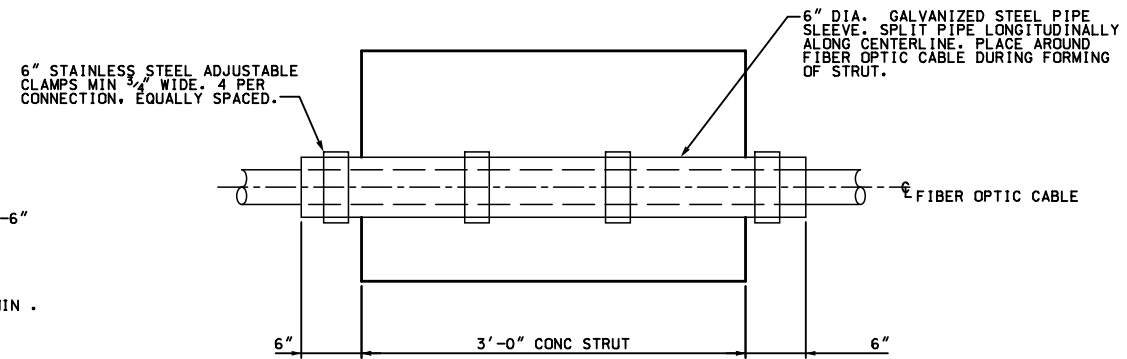
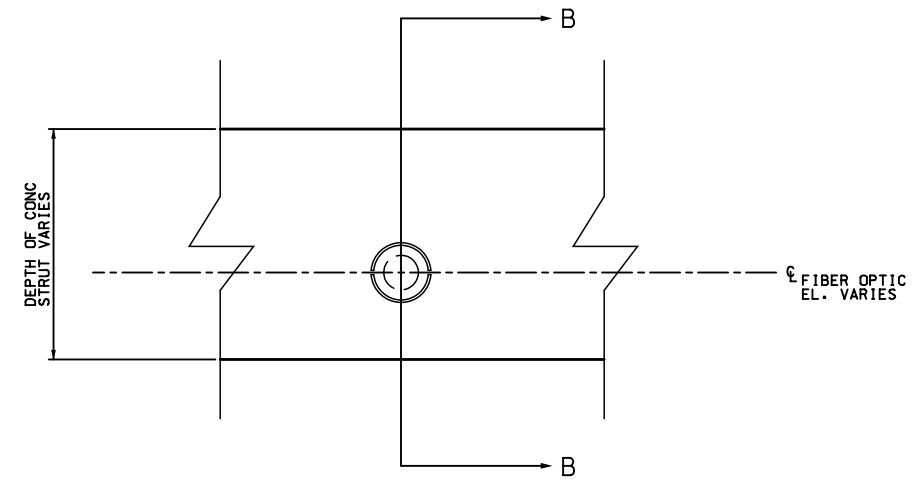
PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED: 4/22/2013 11:17:22 AM BY: Agronowski



**WELDED PILE SPLICE - SPLICE PLATES**

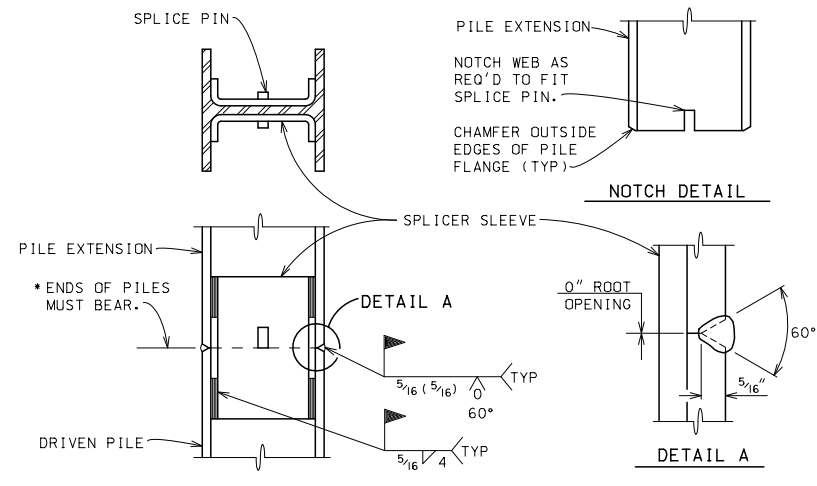


**WELDED PILE SPLICE - BUTT JOINT**

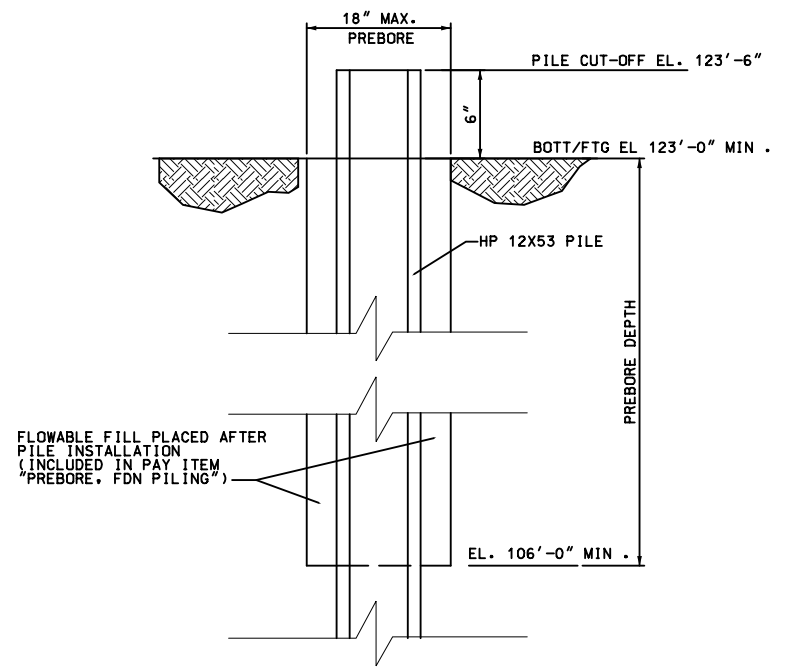


**FIBER OPTIC CONDUIT DETAIL**

**CONTRACTOR NOTE:**  
 SEE SPECIAL PROVISION ON FIBER OPTIC COORDINATION AND PROTECTION.



\* SET PILE EXTENSION IN PLACE WITH SPLICE PLATES ATTACHED. TAP SEVERAL TIMES WITH THE HAMMER TO IMPROVE BEARING CONTACT. THEN COMPLETE WELDING OF PLATES TO THE LOWER SECTION.



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 DIVISION ST. OVER DEQUINDRE CUT

PILE DETAILS

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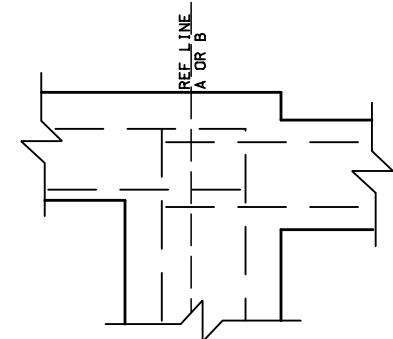
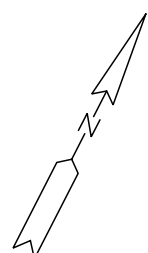
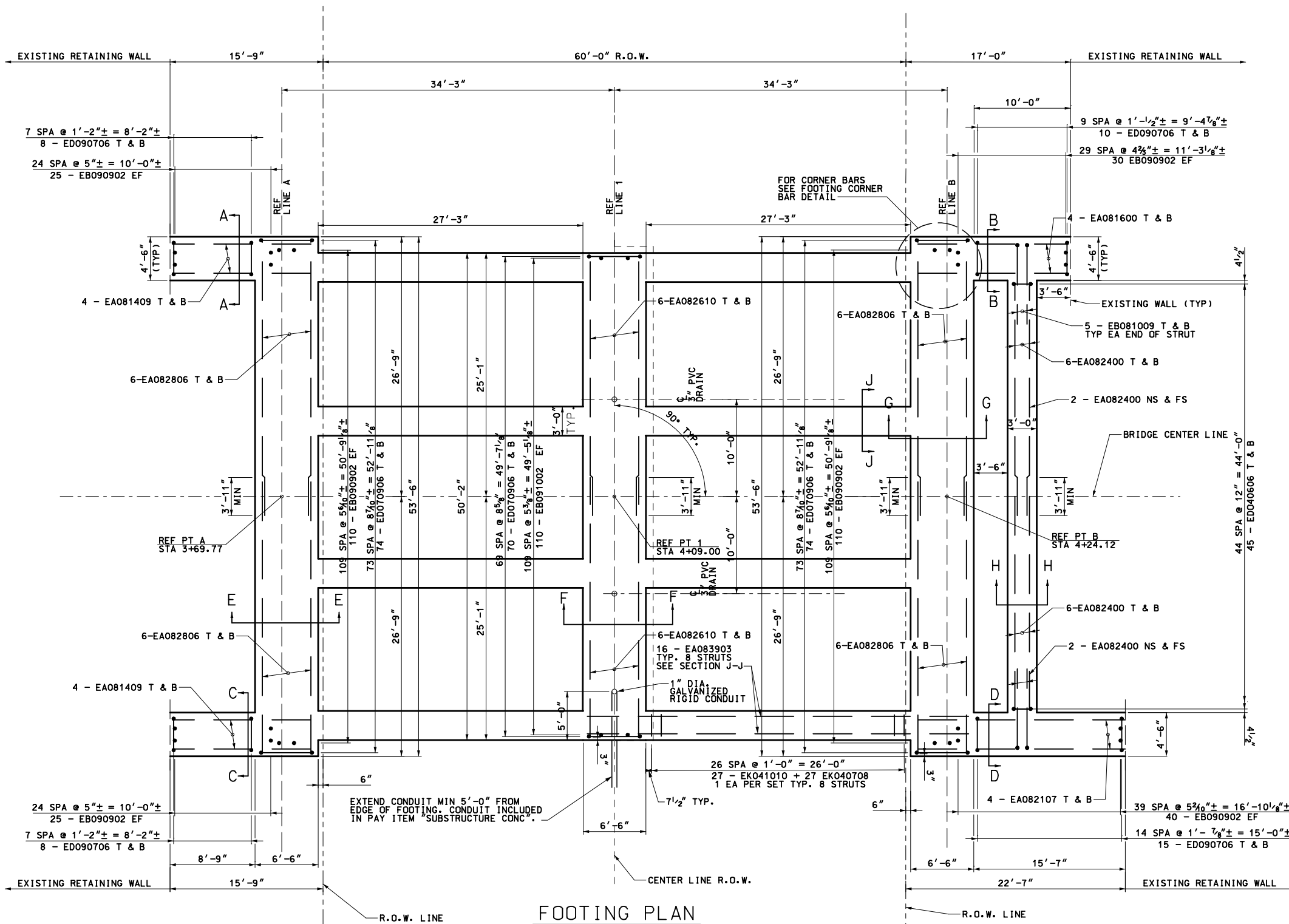
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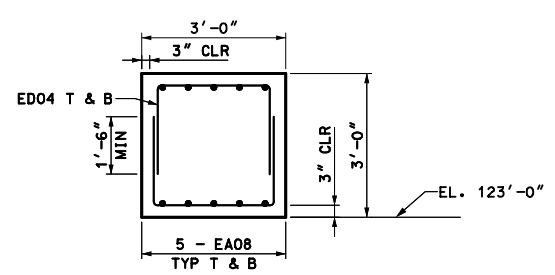
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DIVISION STREET BRIDGE

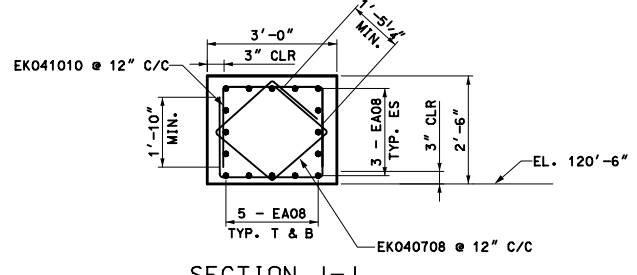
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FOOTING PLAN @ CORNER



SECTION H-H



SECTION J-J

FOOTING CONC QUANTITIES SUBSTRUCTURE CONC		
LOCATION	QUANTITY	UNIT
ABUT A	80	CYD
PIER 1	37	CYD
ABUT B	100	CYD

NOTES:

- CONSTRUCTION JOINTS IN FOOTINGS ARE OPTIONAL.
- THE MATERIAL PROPERTIES OF CONCRETE, GRADE S2, SUBFOOTING SHALL BE THOSE OF CONCRETE GRADE S2.
- OUTLINE OF WALLS NOT SHOWN FOR CLARITY.
- CONCRETE QUANTITIES FOR ABUT A AND ABUT B INCLUDE CONCRETE QUANTITIES FOR TENSION & COMPRESSION STRUTS.

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SHEET 20

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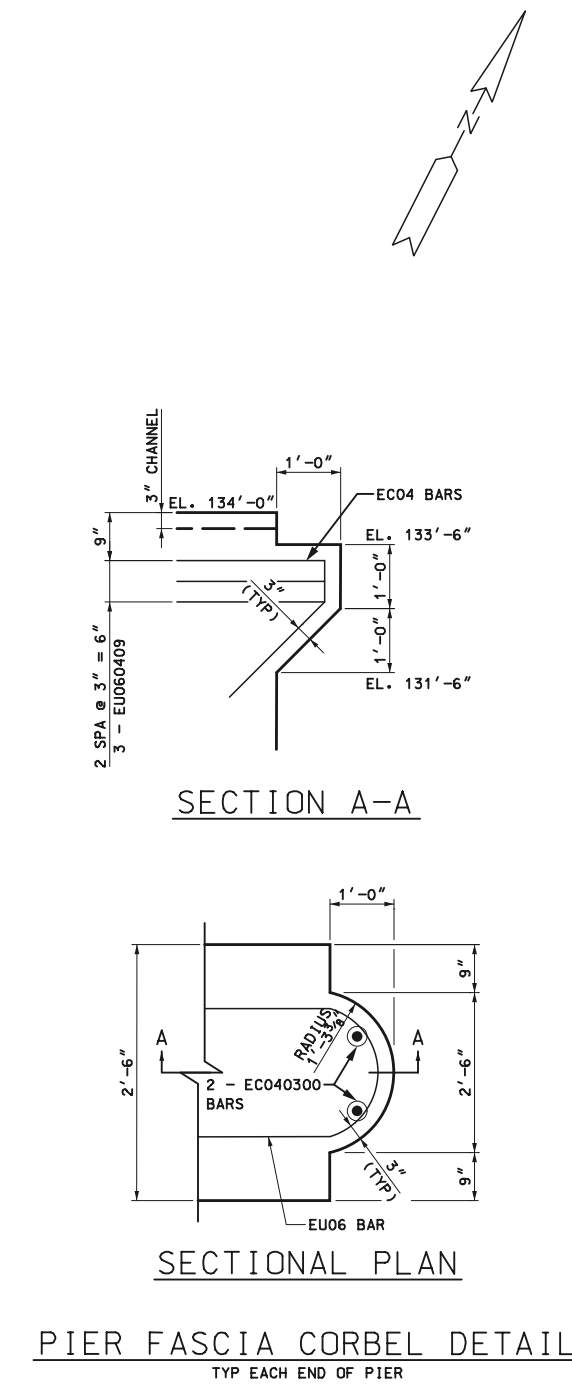
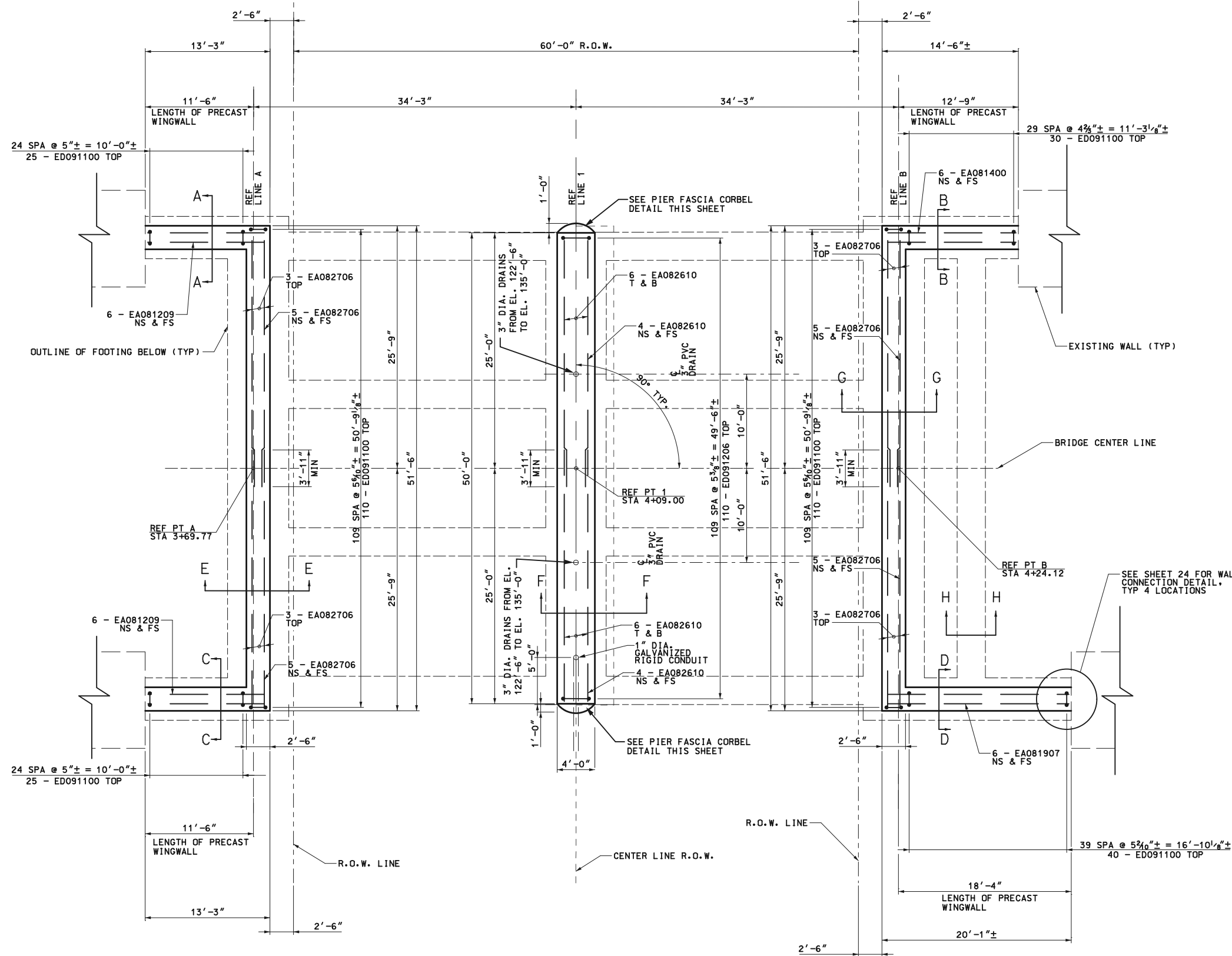
CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERING DIVISION  
 DIVISION ST. OVER DEQUINDRE CUT  
 FOOTING PLAN

DESCRIPTION

DATE

REV

BY



SILL WALL CONC QUANTITIES		
SUBSTRUCTURE CONC		
LOCATION	QUANTITY	UNIT
ABUT A	55	CYD
PIER 1	60	CYD
ABUT B	61	CYD

**NOTES:**

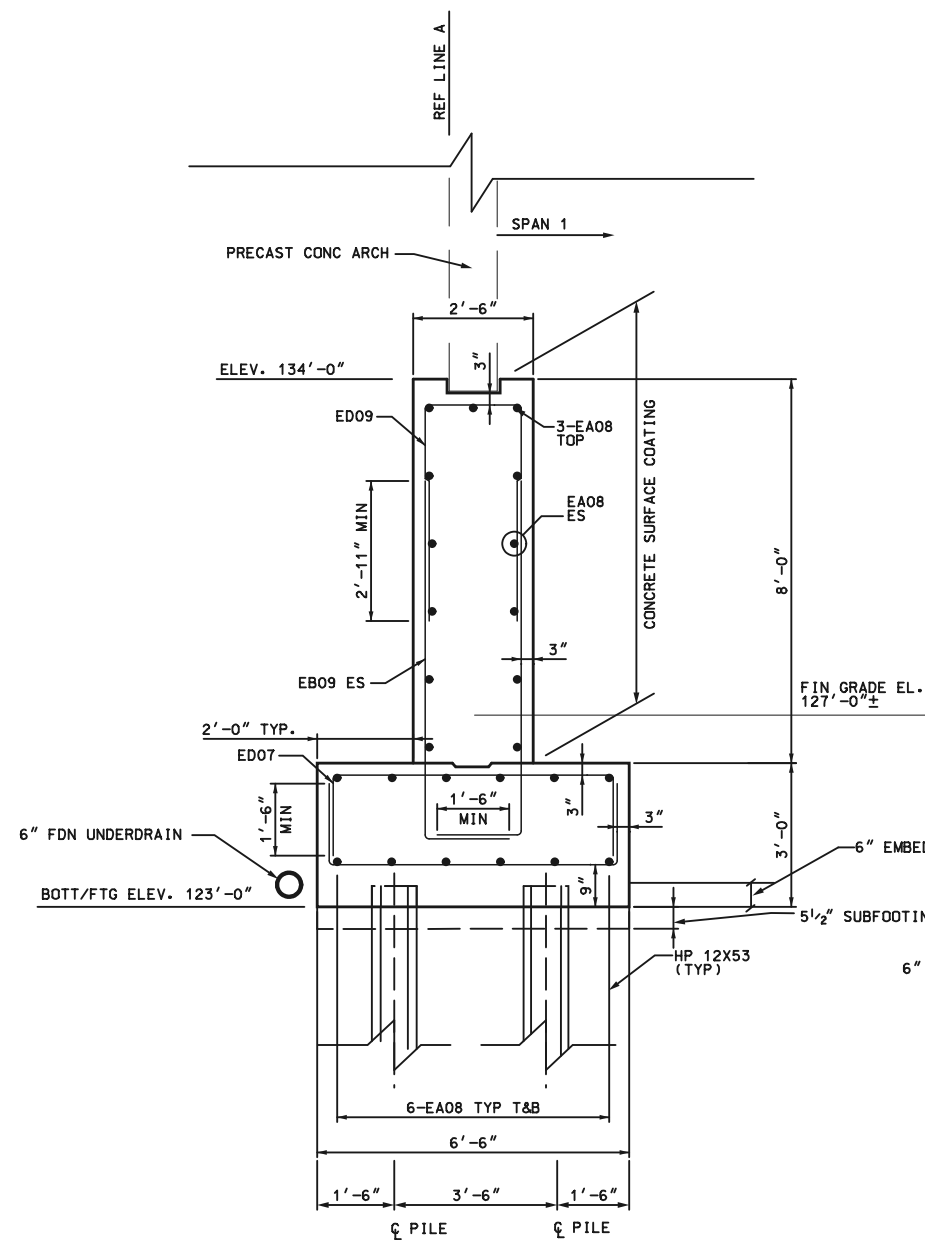
EXTENT OF EXISTING RETURN WALLS UNKNOWN. WALLS SHOWN IN PLAN ARE BASED ON EXISTING 1929 PLANS. CONTRACTOR TO FIELD VERIFY.

CONCRETE SURFACE COATING SHALL BE APPLIED TO THE ENTIRE EXPOSED SURFACES OF THE C.I.P. CONC SILL WALLS. SEE WALL DETAILS FOR EXTENT.

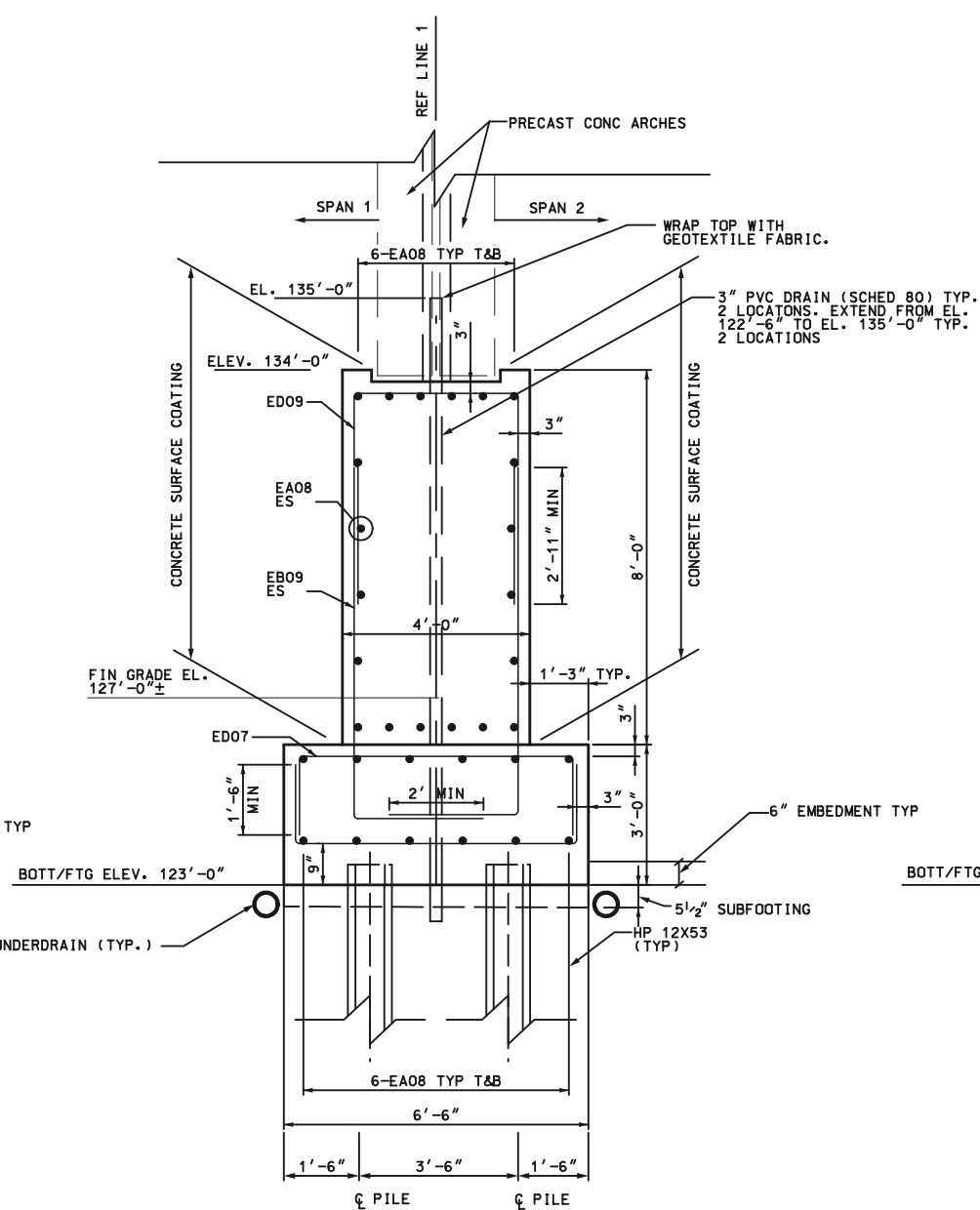
AT NO TIME PRIOR TO ERECTING ARCHES, SHALL THE HEIGHT OF THE BACKFILL ON THE BACKSIDE OF THE ABUTMENTS BE HIGHER THAN THE BACKFILL ON THE FRONT SIDE.

FOR VERTICAL BARS FROM FOOTING INTO SILL WALLS, SEE FOOTING PLAN.

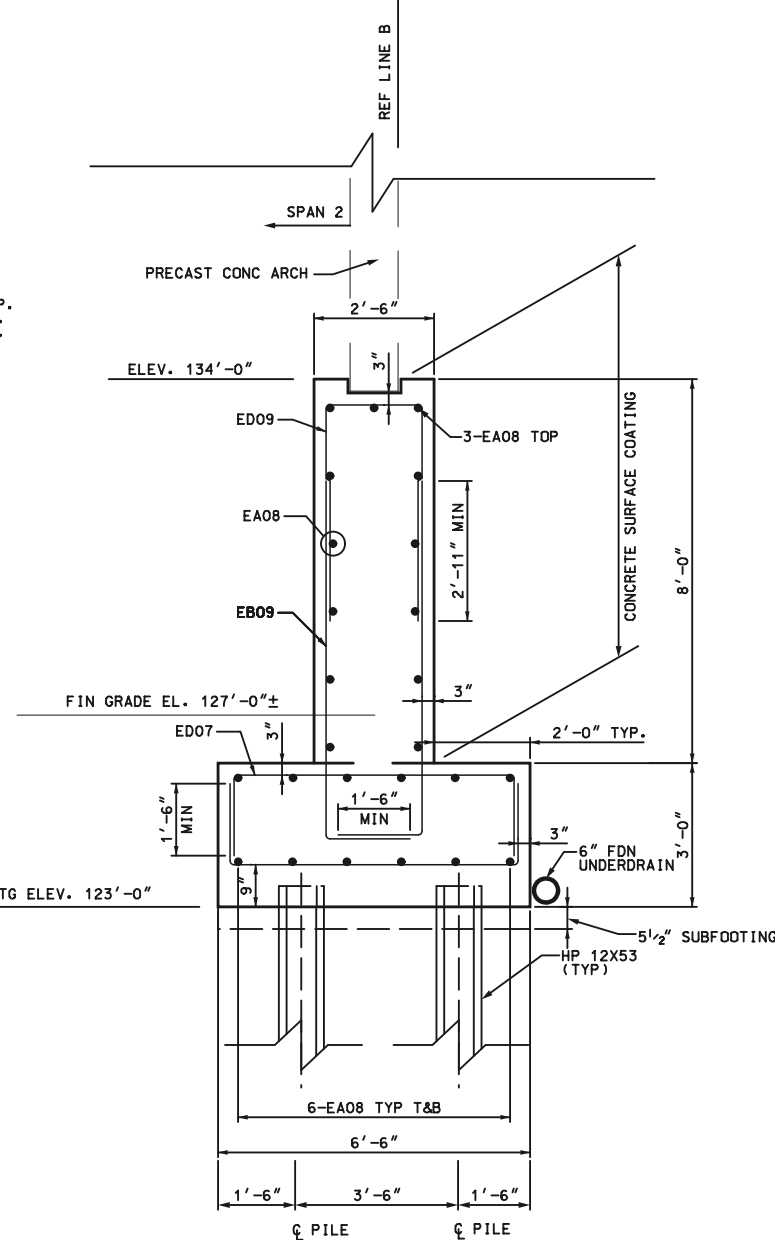
 WADETRIM 500 Griswold, Suite 2500 Detroit, MI 48226 313.981.3850 FAX: 313.981.1888 www.wadetrिम.com	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION DIVISION ST. OVER DEQUINDRE CUT SILL WALL PLAN			
DIVISION STREET BRIDGE				
ISSUED FOR: DATE: BY:	JOB NO. DTE 2025-10T			
SHEET	21			
REVISIONS	DATE	DESCRIPTION	BY	



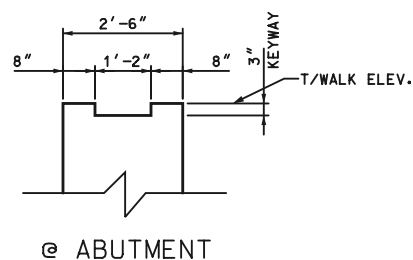
SECTION E-E  
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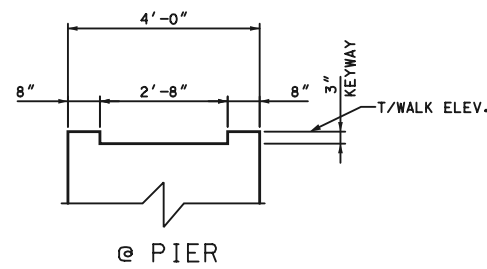
SECTION F-F  
 SCALE: 1/2" = 1'



SECTION G-G  
 SCALE: 1/2" = 1'



@ ABUTMENT



@ PIER

KEYWAY DETAILS  
 NO SCALE

MISCELLANEOUS QUANTITIES		
26	CYD	CONC. GRADE S2, SUBFOOTING
393	CYD	SUBSTRUCTURE CONC
505	SYD	CONC SURFACE COATING
750	SFT	STEEL SHEET PILING, TEMP, LEFT-IN-PLACE
416	SYD	CONC. LOW TEMPERATURE PROTECTION

NOTES:

- SEE DETAILS, SHEETS 19 & 20 FOR LIMITS OF TEMPORARY SHEETING.
- SEE SPECIAL PROVISION FOR CONC SURFACE COATING
- JWP DENOTES JOINT WATERPROOFING.
- NS DENOTES NEAR SIDE.
- FS DENOTES FAR SIDE.
- ES DENOTES EACH SIDE.
- FOR BEVEL AND MOLDING DETAILS, SEE STANDARD PLAN B-103-SERIES.
- FOR PILE QUANTITIES, LAYOUT, AND NOTES, SEE SHEET 15.
- LOW TEMPERATURE PROTECTION OF CONCRETE SHALL BE APPLIED ACCORDING TO SECTION 706.03 J. OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. LOW TEMPERATURE PROTECTION OF CONCRETE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE BID ITEM "SUBSTRUCTURE CONC."

CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERING DIVISION  
 DIVISION ST. OVER DEQUINDRE CUT  
 SILL WALL DETAILS

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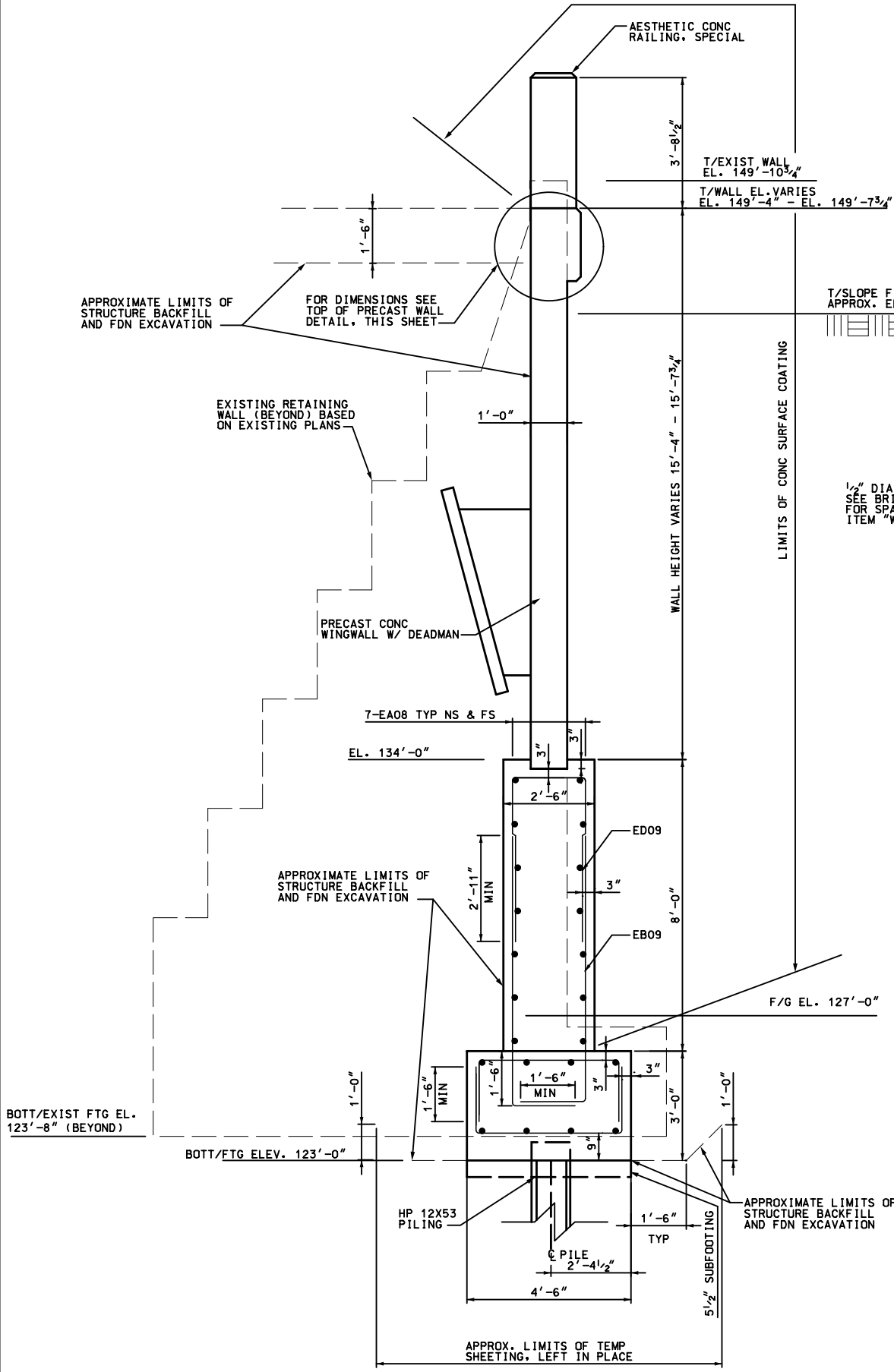
SHEET  
 22

DIVISION STREET BRIDGE

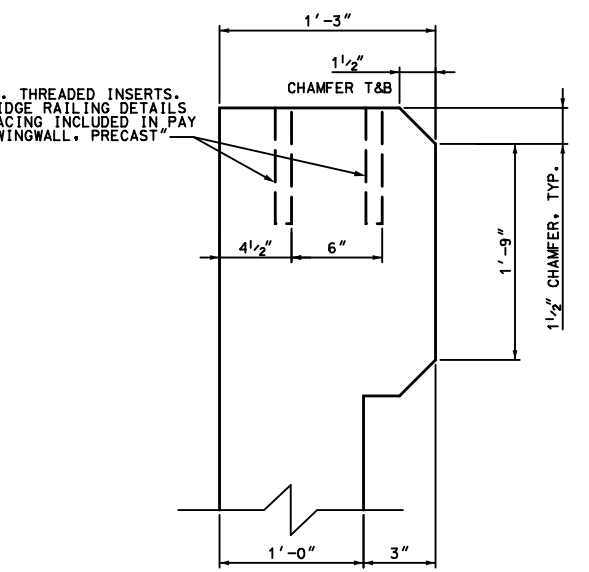
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**NOTES**

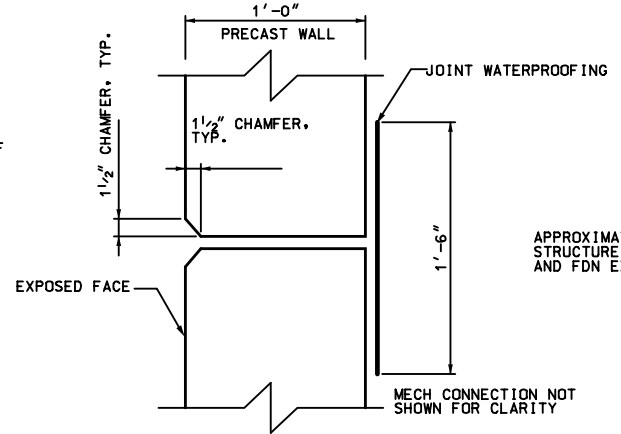
FOR DETAILS OF TEXTURING CONCRETE @ BRIDGE RAILINGS, SEE SHEETS 26-28.  
 A RUBBED SURFACE FINISH ON THE VERTICAL OUTSIDE SURFACES OF THE PRECAST WALLS IS REQUIRED FOR THIS STRUCTURE.  
 SEE SPECIAL PROVISIONS FOR CONCRETE SURFACE COATING.



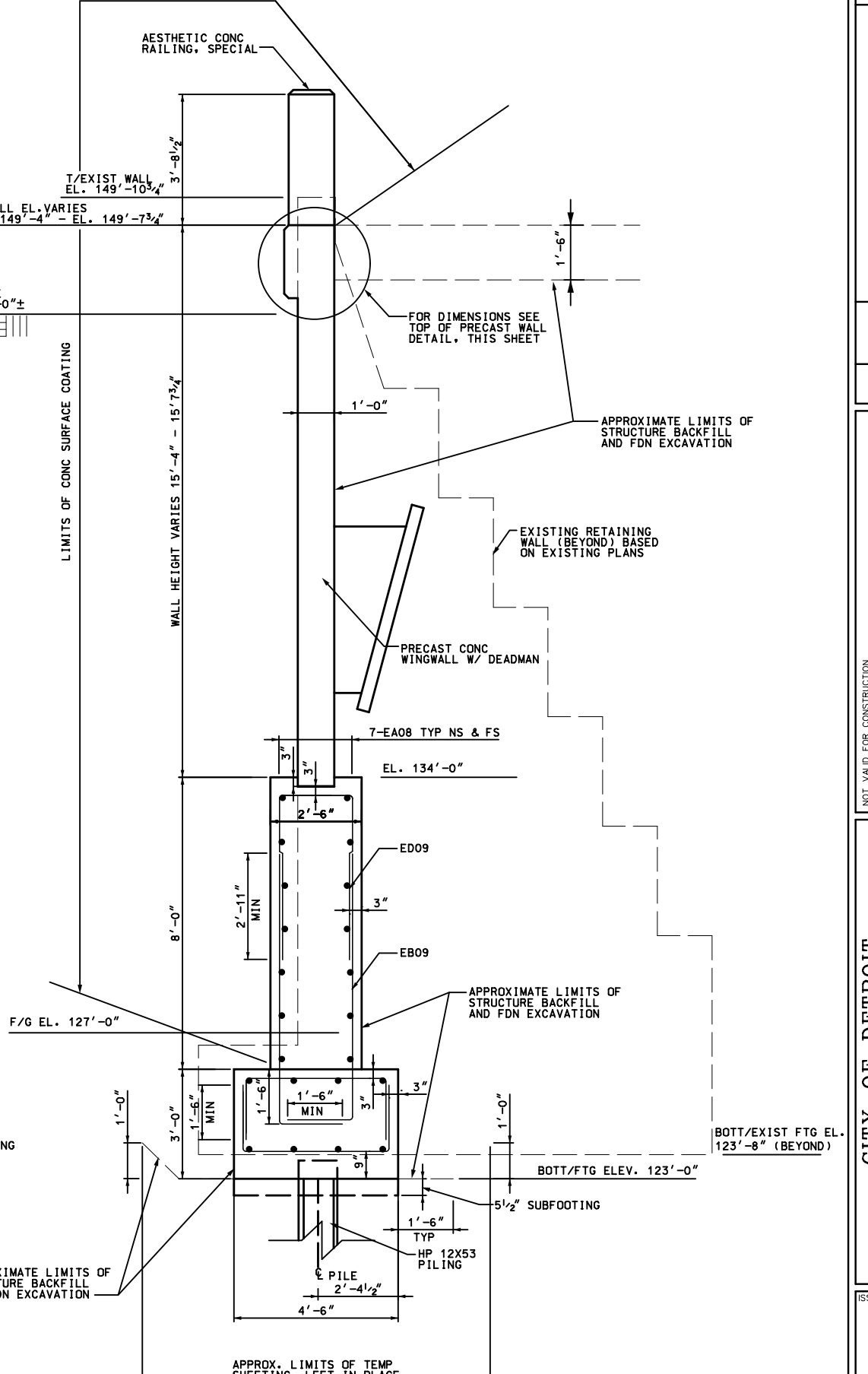
**SECTION A-A**  
 SCALE: 1/2" = 1'



**TOP OF PRECAST WALL DETAIL**



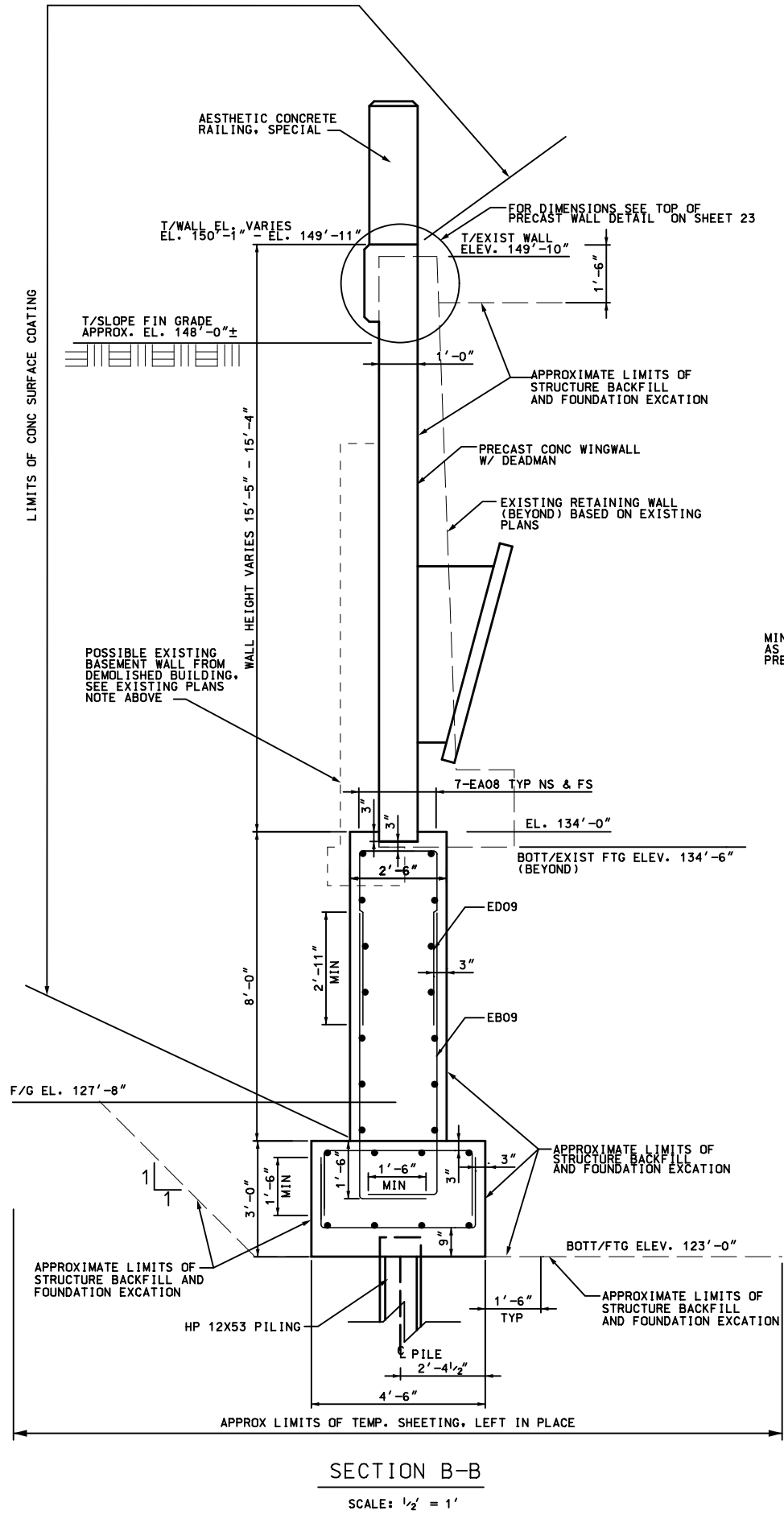
**VERTICAL WALL JOINT DETAIL**



**SECTION C-C**  
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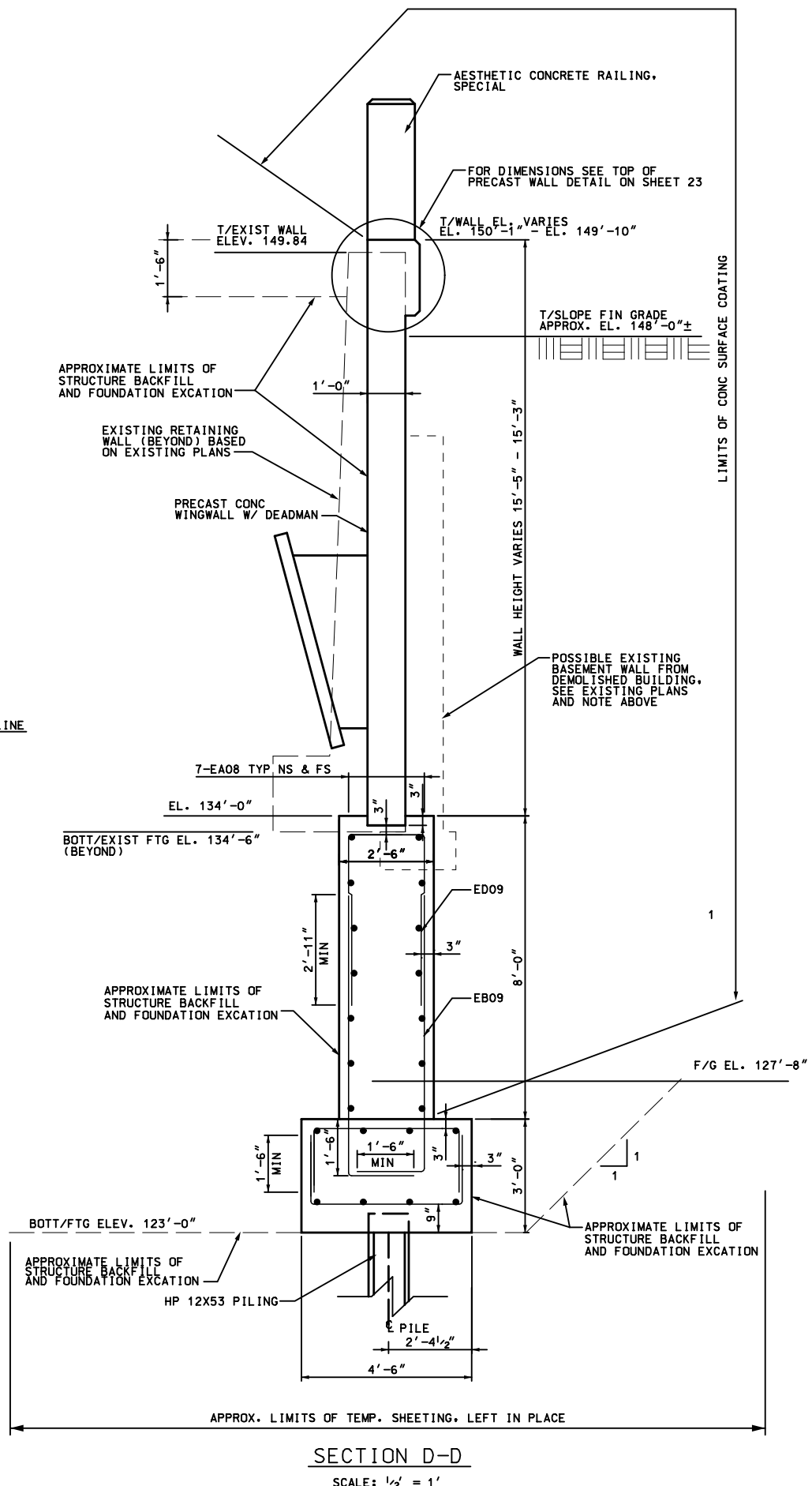
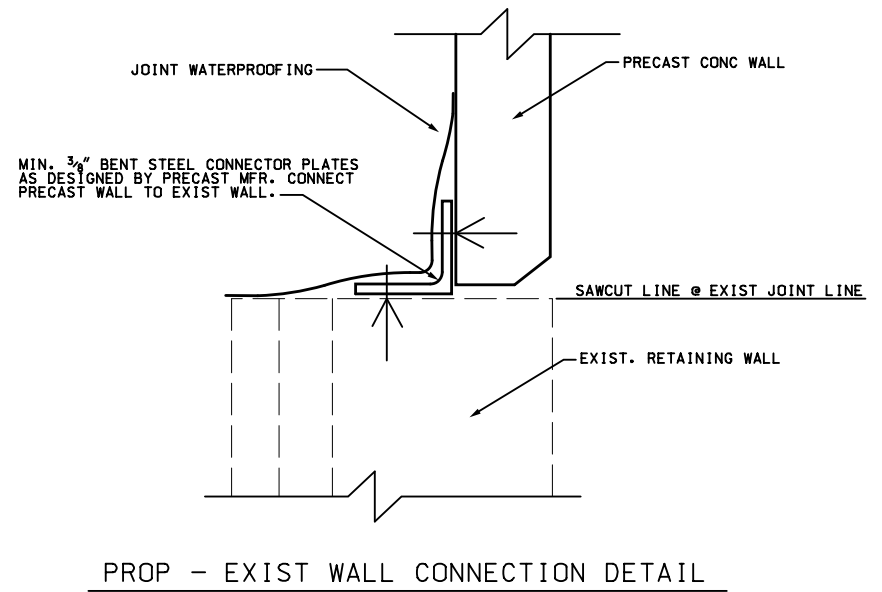
CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION DIVISION ST. OVER DEQUINDRE CUT WINGWALL DETAILS	
PROJECT MANAGER: Agronowski, A. DATE: 4/22/2013 11:21:06 AM BY: Agronowski	JOB NO. <b>DTE 2025-10T</b>
SHEET <b>23</b>	ISSUED FOR: DATE: BY:
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 C:\pwworkspace\10326909\DWG\PL15-WallDetail.dwg



**NOTES**

FOR DETAILS OF TEXTURING CONCRETE @ BRIDGE RAILINGS, SEE SHEETS 26-28.  
 A RUBBED SURFACE FINISH ON THE VERTICAL OUTSIDE SURFACES OF THE PRECAST WALLS IS REQUIRED FOR THIS STRUCTURE.  
 SEE SPECIAL PROVISIONS FOR CONCRETE SURFACE COATING.  
 EXISTING 1929 PLANS INDICATE BLDG FDN THIS AREA. IT IS UNKNOWN IF BLDG FOUNDATIONS HAVE PREVIOUSLY BEEN REMOVED. IF FOUNDATIONS ARE ENCOUNTERED, CONTRACTOR SHALL REMOVE WITH CAUTION WITHIN LIMITS OF GRADING EASEMENT. BACKFILL WITH STRUCTURE BACKFILL AND COMPACT. PER STD. SPECIFICATIONS. REMOVAL SHALL BE INCLUDED IN PAY ITEM "STRUCTURES, REM PORTIONS, MODIFIED"



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**DIVISION ST. OVER DEQUINDE CUT**  
**WINGWALL DETAILS**

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SHEET		
24		

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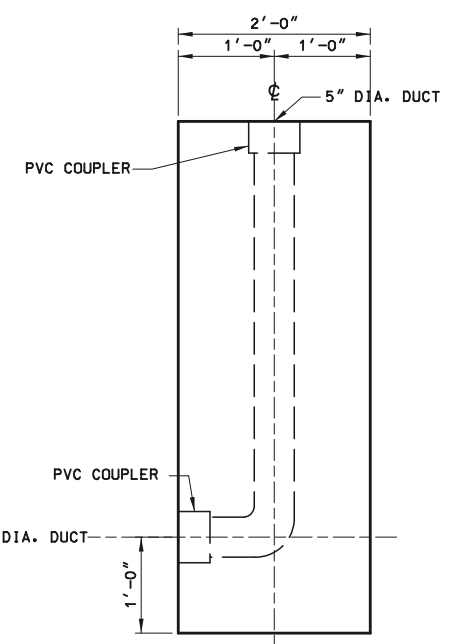
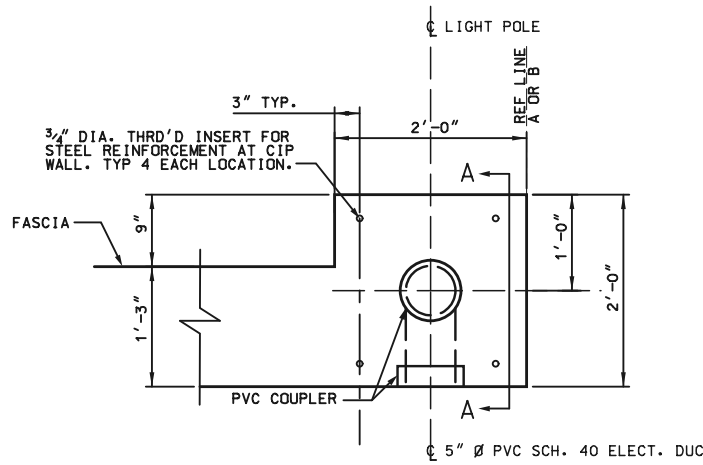
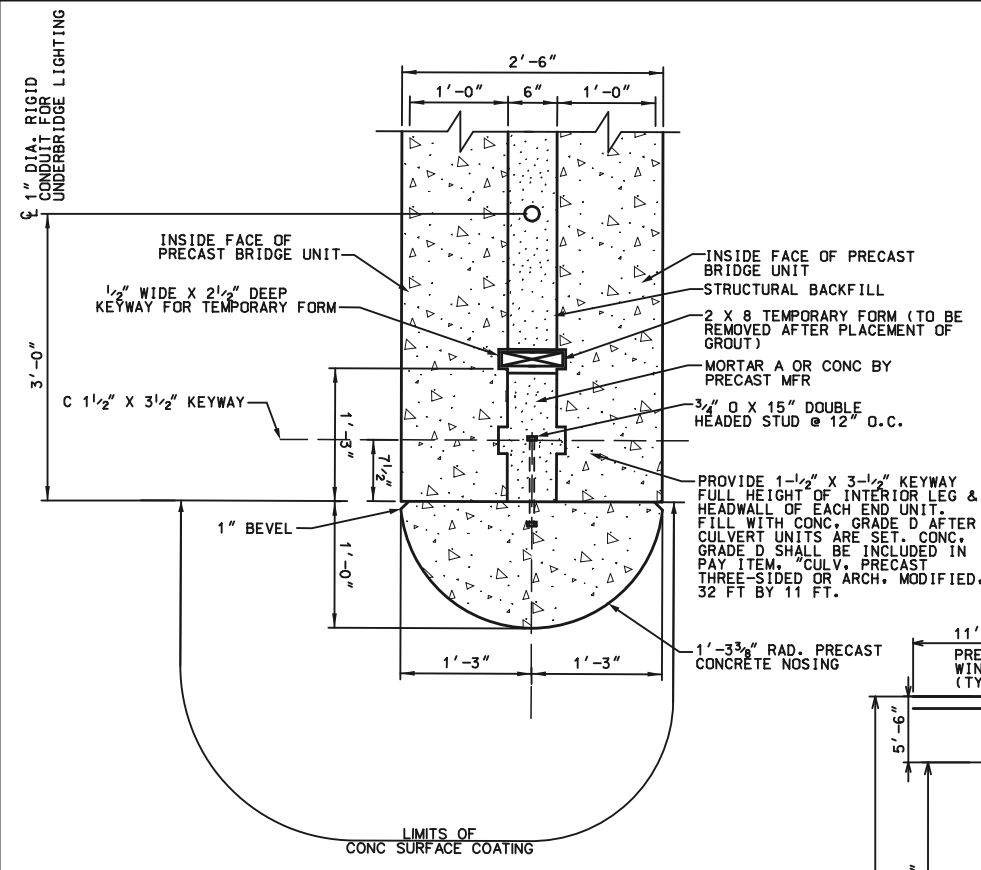


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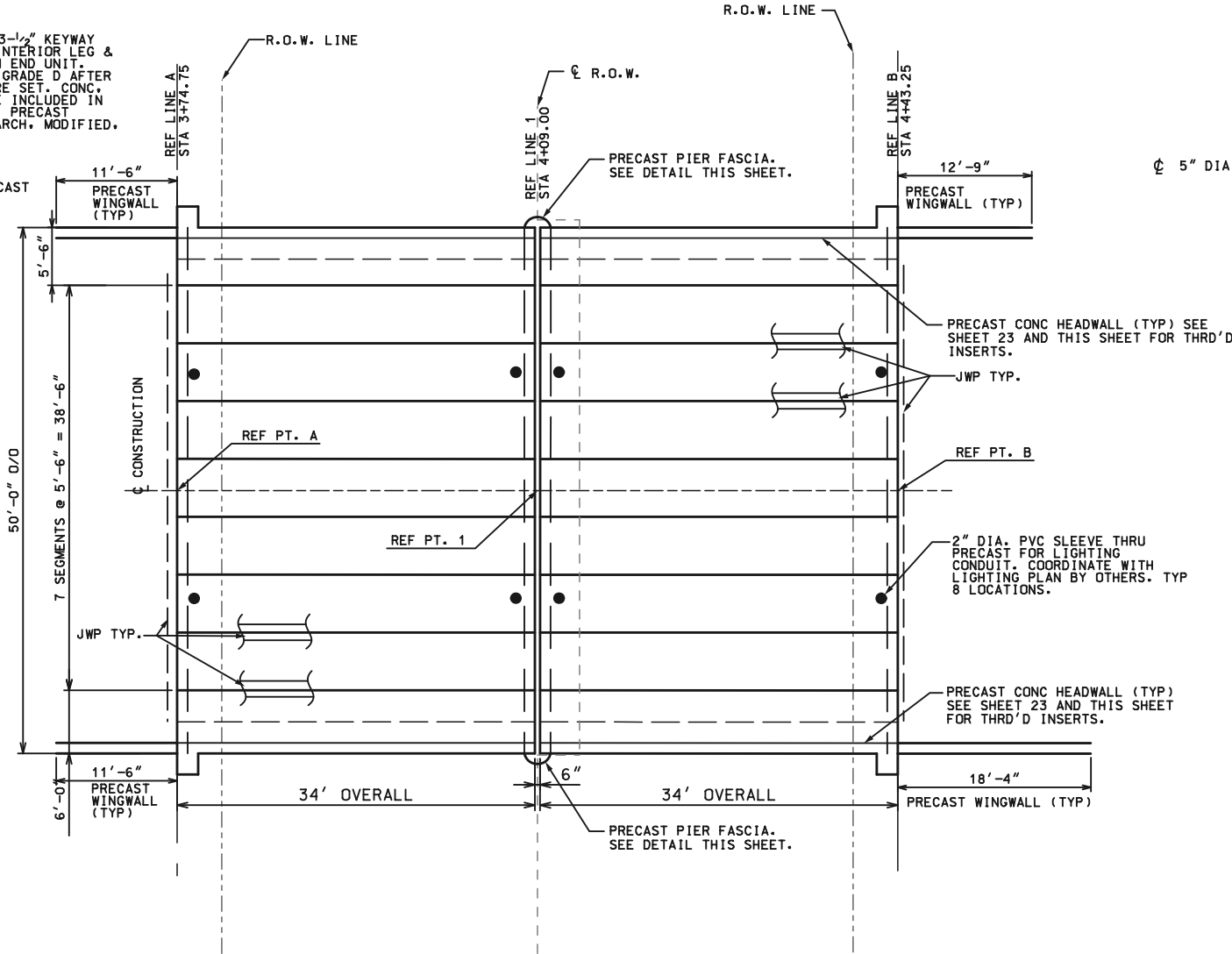
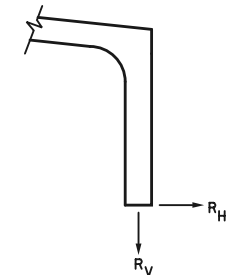
**NOTES:**

JWP DENOTES JOINT WATERPROOFING  
 FOR DETAILS OF NAME PLATES, MOLDINGS AND BEVELS, SEE STD PLAN B-103 SERIES.  
 FOR NAME PLATE LOCATION, SEE GENERAL PLAN OF STRUCTURE SHEET.  
 A RUBBED SURFACE FINISH ON THE VERTICAL OUTSIDE SURFACE OF THE PRECAST CONC HEADWALLS IS REQUIRED ON THIS STRUCTURE.  
 COORDINATE LOCATION OF 4" DIA. PVC CONDUIT @ HEADWALLS WITH RAILING DETAILS ON SHEET 26.  
 PRECAST PIER FASCIA IS INCLUDED IN PAY ITEM "CULV, PRECAST THREE-SIDED OR ARCH, MODIFIED, 32 FT BY 11 FT".  
 PRECAST CONC HEADWALL IS INCLUDED IN THE PAY ITEM "CULV, PRECAST THREE-SIDED OR ARCH, MODIFIED, 32 FT BY 11 FT". ESTIMATED TOTAL LENGTH = 100 FT.

8 6 4 2 0 4 8 12 16



DESCRIPTION	DEAD LOAD	LIVE LOAD	TOTAL LOAD
RH (HORIZ)	2.9 K/FT	2.7 K/FT	5.6 K/FT
RV (VERT)	17.1 K/FT	6.4 K/FT	23.5 K/FT



TOP/HEADWALL ELEVATIONS		
LOCATION	REF LINE	ELEV (DCD)
NORTH HEADWALL	'A'	149.73
	'1'	150.09
SOUTH HEADWALL	'A'	149.73
	'1'	150.09
	'B'	149.85
	'B'	149.85

MISCELLANEOUS QUANTITIES			
100	FT	CULV, PRECAST THREE-SIDED OR ARCH, MODIFIED	32 FOOT BY 11 FOOT
840	SFT	WINGWALL, PRECAST	
1080	SFT	JOINT WATERPROOFING	
70	SYD	CONC SURFACE COATING	

**REACTION NOTES:**

REACTIONS SHOWN ARE UNFACTORED LOADS.  
 LIVE LOAD REACTIONS SHOWN ARE MAXIMUM REACTION BASED ON VARYING AXLE LOAD POSITIONS.  
 IMPACT IS NOT INCLUDED.  
 DEAD LOAD REACTIONS INCLUDE PRECAST UNIT AND WEIGHT OF SOIL AT A UNIT WEIGHT OF 120 PCF.  
 PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE ENGINEER WITH REACTIONS FROM PRECAST MANUFACTURER FOR PROJECT. THE REACTIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO PRECAST FABRICATION.

CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERING DIVISION  
 DIVISION ST. OVER DEQUINDRE CUT  
 PRECAST CONCRETE PLAN & DETAILS

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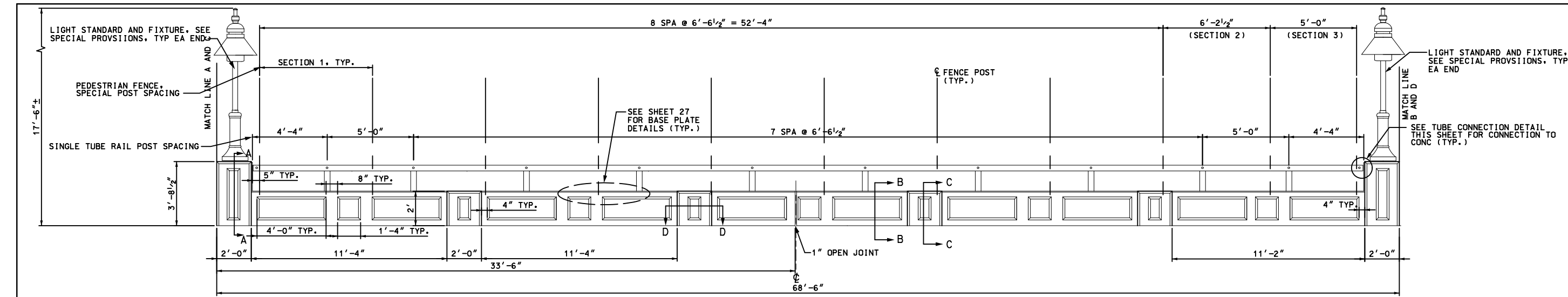
DIVISION STREET BRIDGE

NO.	DATE	DESCRIPTION	BY

ISSUED FOR: DATE: BY:

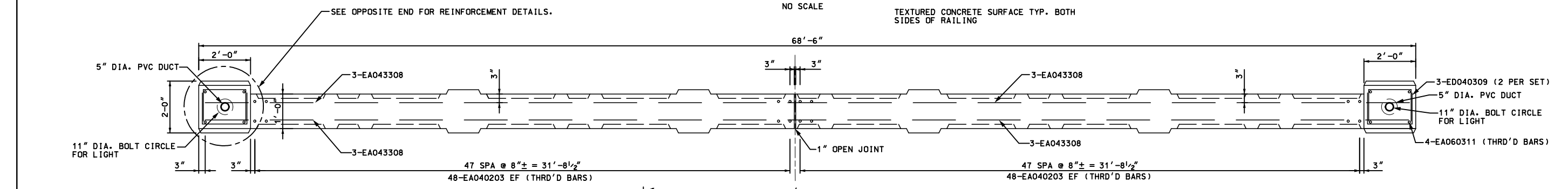
JOB NO. DTE 2025-10T

SHEET 25



**ELEVATION VIEW**  
NO SCALE

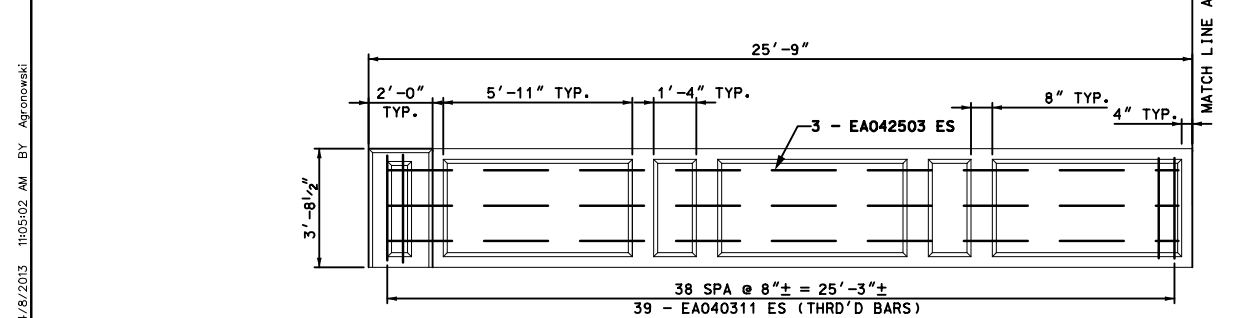
NOTE:  
VIEW FROM CENTERLINE OF ROAD LOOKING AT  
INNER FACE OF RAILING.  
TEXTURED CONCRETE SURFACE TYP. BOTH  
SIDES OF RAILING



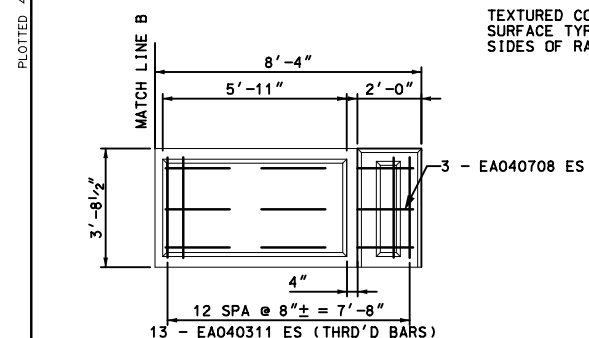
**PLAN VIEW**  
NO SCALE

NOTE:  
AESTHETIC PARAPET TUBE NOT SHOWN FOR CLARITY

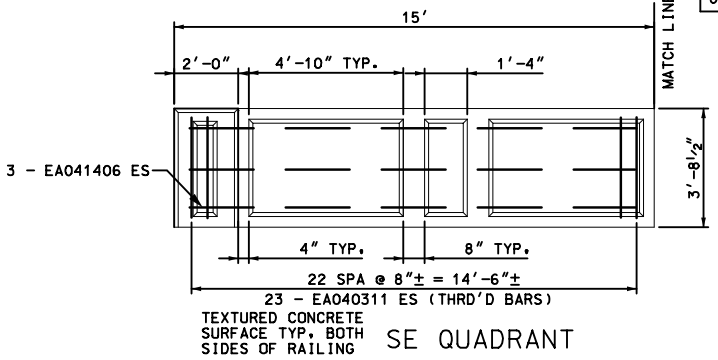
MISCELLANEOUS QUANTITIES	
137 FT	BRIDGE RAILING, AESTHETIC PARAPET TUBE, DETAIL 2, MODIFIED
61 FT	AESTHETIC CONCRETE RAIL, SPECIAL
115 SYD	TEXTURING CONC
822 SFT	PEDESTRIAN FENCE, SPECIAL



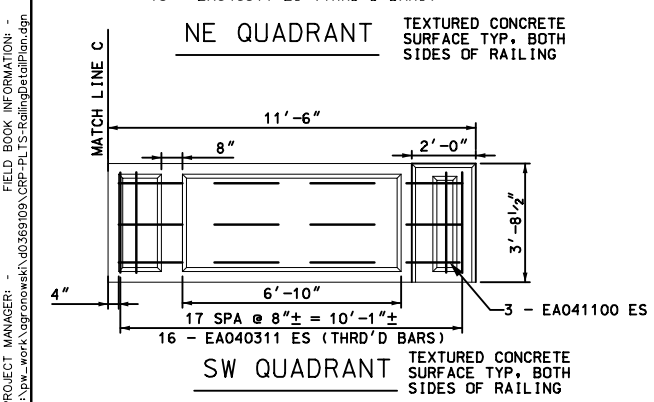
**NW QUADRANT**  
TEXTURED CONCRETE SURFACE TYP. BOTH SIDES OF RAILING



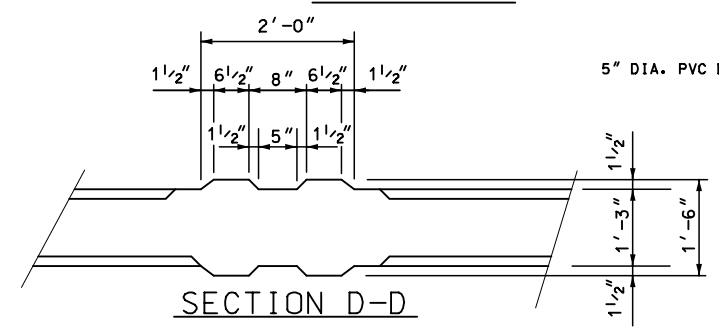
**NE QUADRANT**  
TEXTURED CONCRETE SURFACE TYP. BOTH SIDES OF RAILING



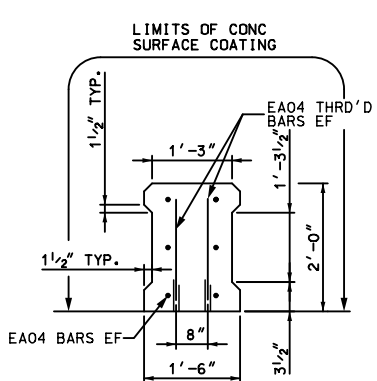
**SE QUADRANT**  
TEXTURED CONCRETE SURFACE TYP. BOTH SIDES OF RAILING



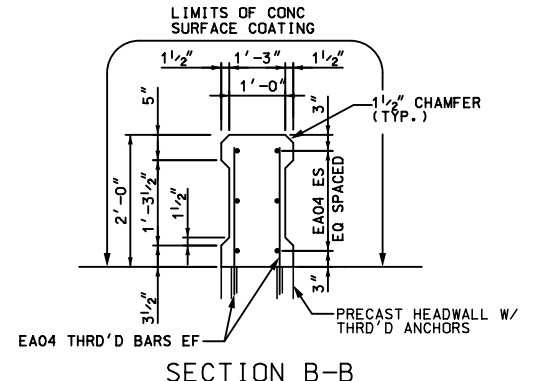
**SW QUADRANT**  
TEXTURED CONCRETE SURFACE TYP. BOTH SIDES OF RAILING



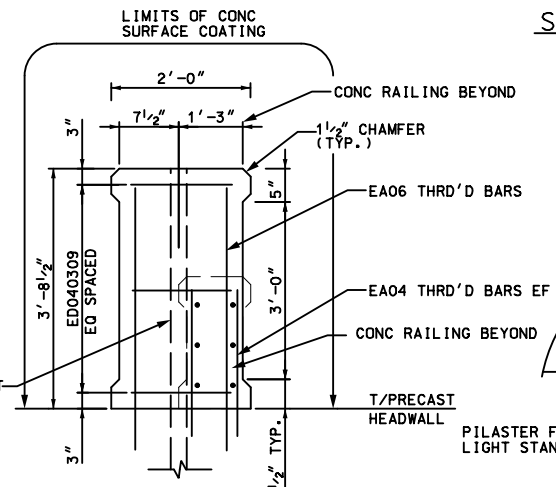
**SECTION D-D**



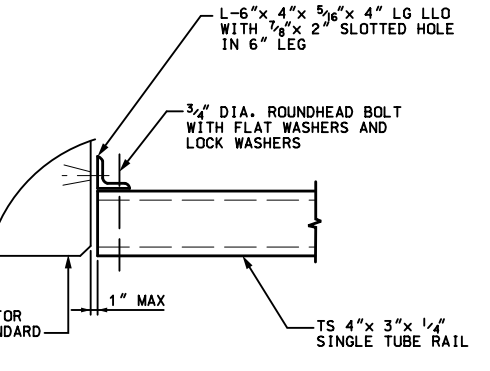
**SECTION C-C**



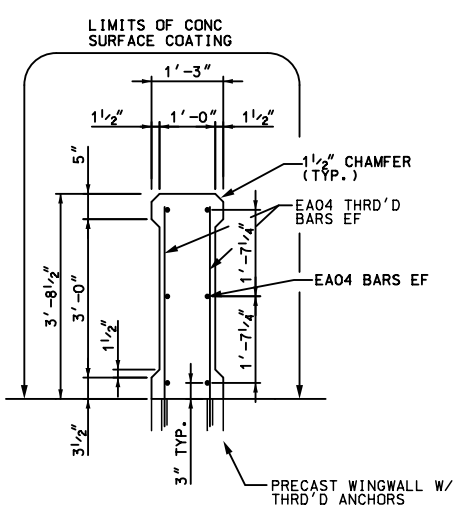
**SECTION B-B**



**SECTION A-A**



**TUBE CONNECTION DETAIL**



**AESTHETIC CONC RAILING, SPECIAL - DETAIL**

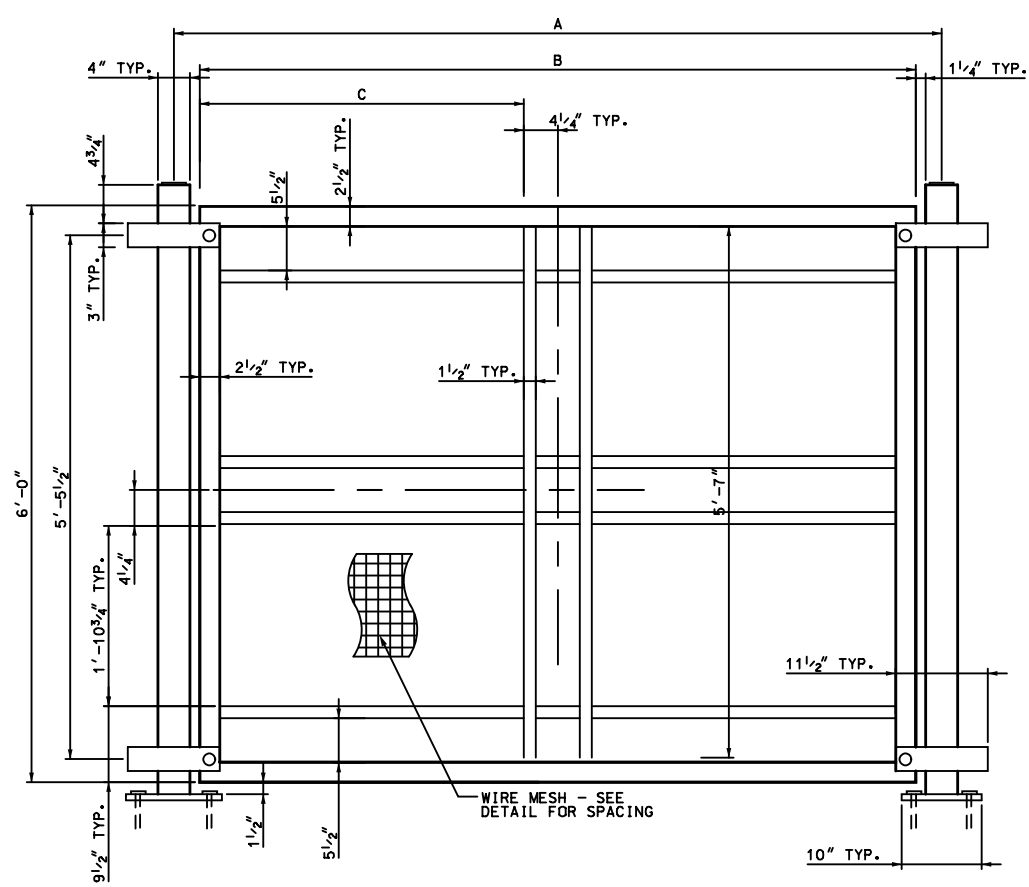
WORK THIS SHEET WITH SHEETS 27-28

PROJECT MANAGER: ... FIELD BOOK INFORMATION: ... PLOTTED 4/19/2013 10:05:02 AM BY: Agronowski

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION DIVISION ST. OVER DEQUINDRE CUT RAILING DETAIL SHEET	ISSUED FOR: DATE: BY:
	JOB NO. DTE 2025-10T
	SHEET 26

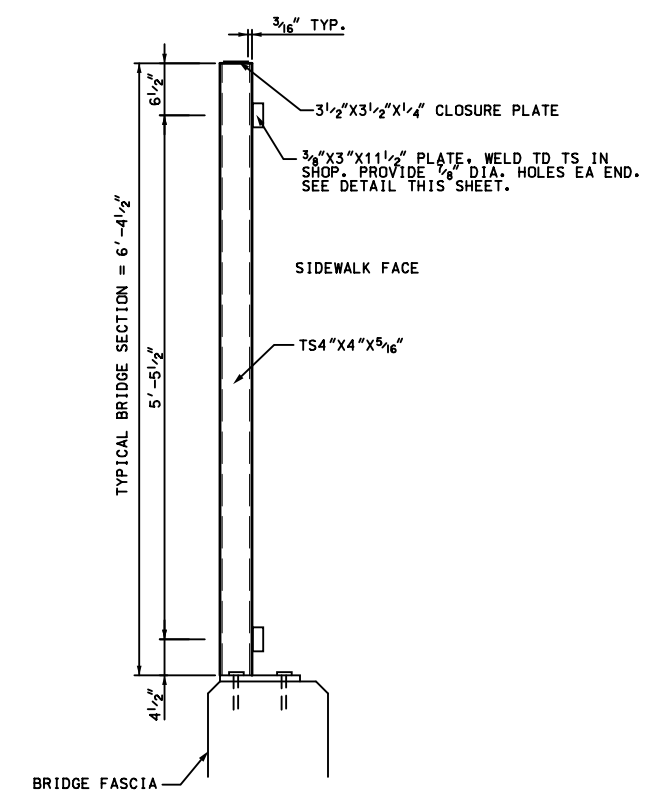
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SECTION	LENGTH		
	A	B	C
1	6'-6 $\frac{1}{2}$ "	6'-0"	2'-7 $\frac{3}{4}$ "
2	6'-2 $\frac{1}{2}$ "	5'-8"	2'-5 $\frac{3}{4}$ "
3	5'-0"	4'-5 $\frac{1}{2}$ "	1'-10 $\frac{1}{2}$ "



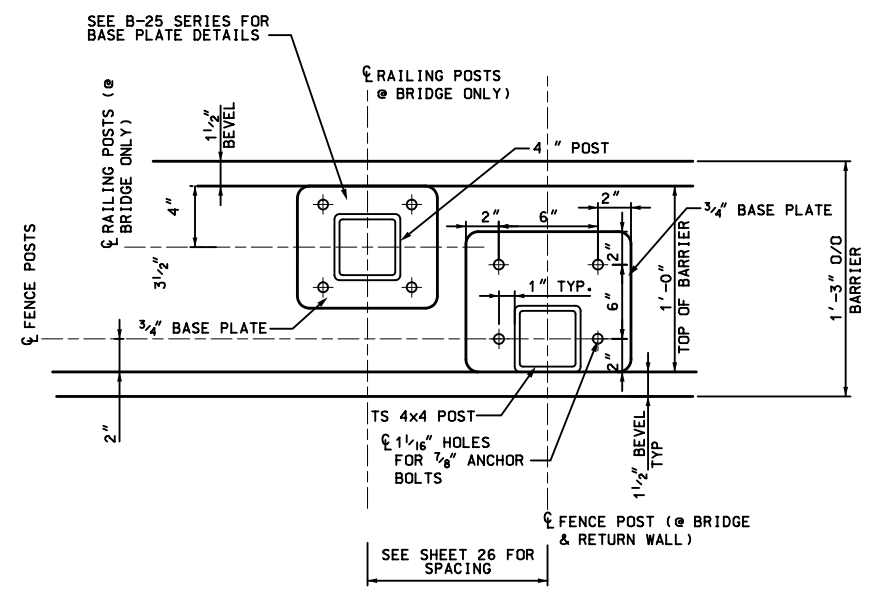
TYPICAL FENCE PANEL SECTION ON BRIDGE

ALL SECTIONS & POSTS TO BE PAINTED BLACK

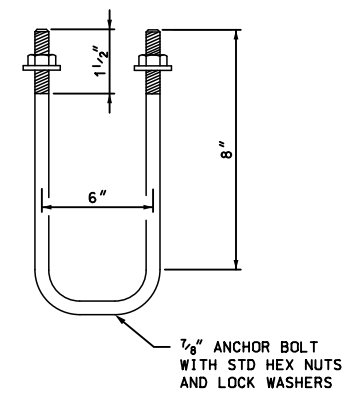


FENCE POST DETAIL

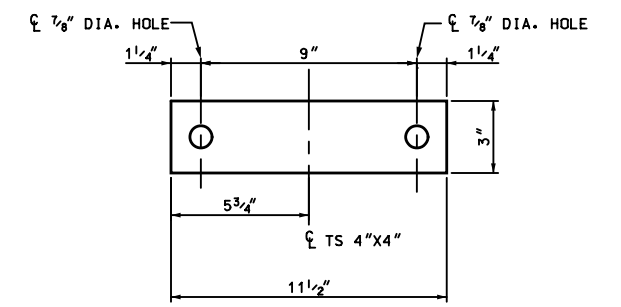
ALL SECTIONS & POSTS TO BE PAINTED BLACK



POST BASE PLATE DETAILS



FENCE POST ANCHOR BOLT DETAIL



FENCE PANEL CONNECTION PLATE DETAIL

PROJECT MANAGER: AGRONOWSKI, A. 315.981.3650 FIELD BOOK INFORMATION: C:\New Work\Agronowski\A0326909\CSPP\TS-Pedestrian Fence Details.dgn PLOTTED: 4/22/2013 11:24:29 AM BY: Agronowski

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-10T

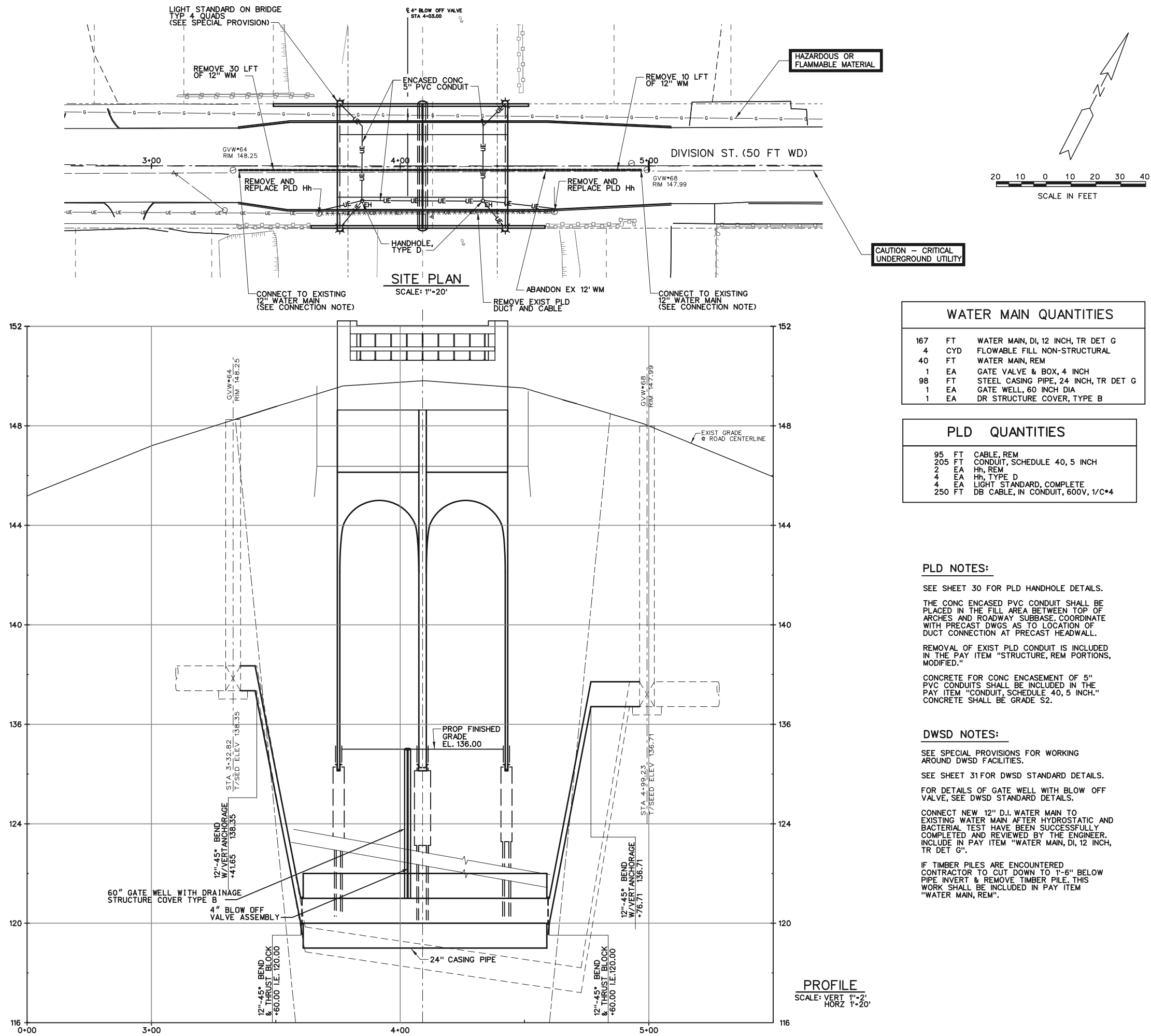
SHEET
27

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CITY ENGINEERING DIVISION  
DIVISION ST. OVER DEQUINDRE CUT  
PEDESTRIAN FENCE DETAILS

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WATER MAIN QUANTITIES			
167	FT	WATER MAIN, DI, 12 INCH, TR DET G	
4	CYD	FLOWABLE FILL NON-STRUCTURAL	
40	FT	WATER MAIN, REM	
1	EA	GATE VALVE & BOX, 4 INCH	
98	FT	STEEL CASING PIPE, 24 INCH, TR DET G	
1	EA	GATE WELL, 60 INCH DIA	
1	EA	DR STRUCTURE COVER, TYPE B	

PLD QUANTITIES			
95	FT	CABLE, REM	
205	FT	CONDUIT, SCHEDULE 40, 5 INCH	
2	EA	Hh, REM	
4	EA	Hh, TYPE D	
4	EA	LIGHT STANDARD, COMPLETE	
250	FT	DB CABLE, IN CONDUIT, 600V, 1/C*4	

**PLD NOTES:**

SEE SHEET 30 FOR PLD HANDHOLE DETAILS.  
 THE CONC ENCASED PVC CONDUIT SHALL BE PLACED IN THE FILL AREA BETWEEN TOP OF ARCHES AND ROADWAY SUBBASE. COORDINATE WITH PRECAST DWGS AS TO LOCATION OF DUCT CONNECTION AT PRECAST HEADWALL.  
 REMOVAL OF EXIST PLD CONDUIT IS INCLUDED IN THE PAY ITEM "STRUCTURE, REM PORTIONS, MODIFIED."  
 CONCRETE FOR CONC ENCASEMENT OF 5" PVC CONDUITS SHALL BE INCLUDED IN THE PAY ITEM "CONDUIT, SCHEDULE 40, 5 INCH." CONCRETE SHALL BE GRADE S2.

**DWSD NOTES:**

SEE SPECIAL PROVISIONS FOR WORKING AROUND DWSD FACILITIES.  
 SEE SHEET 31 FOR DWSD STANDARD DETAILS.  
 FOR DETAILS OF GATE WELL WITH BLOW OFF VALVE, SEE DWSD STANDARD DETAILS.  
 CONNECT NEW 12" D.I. WATER MAIN TO EXISTING WATER MAIN AFTER HYDROSTATIC AND BACTERIAL TEST HAVE BEEN SUCCESSFULLY COMPLETED AND REVIEWED BY THE ENGINEER. INCLUDE IN PAY ITEM "WATER MAIN, DI, 12 INCH, TR DET G".  
 IF TIMBER PILES ARE ENCOUNTERED CONTRACTOR TO CUT DOWN TO 1'-6" BELOW PIPE INVERT & REMOVE TIMBER PILE. THIS WORK SHALL BE INCLUDED IN PAY ITEM "WATER MAIN, REM".

**PROFILE**  
 SCALE: VERT 1"=2'  
 HORIZ 1"=20'

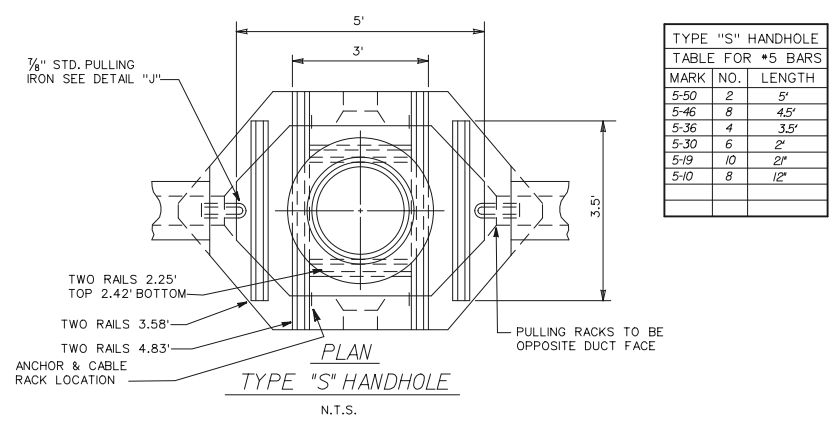
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 DIVISION ST. OVER DEQUINDRE CUT  
 PLD/DWSD PLANS AND DETAILS

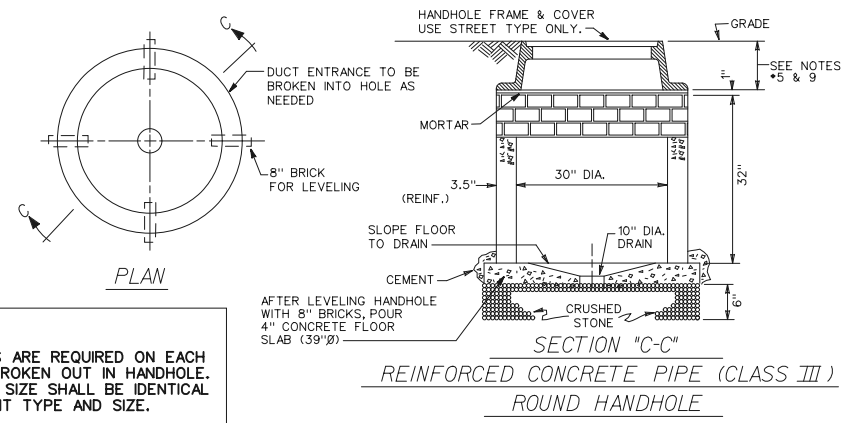
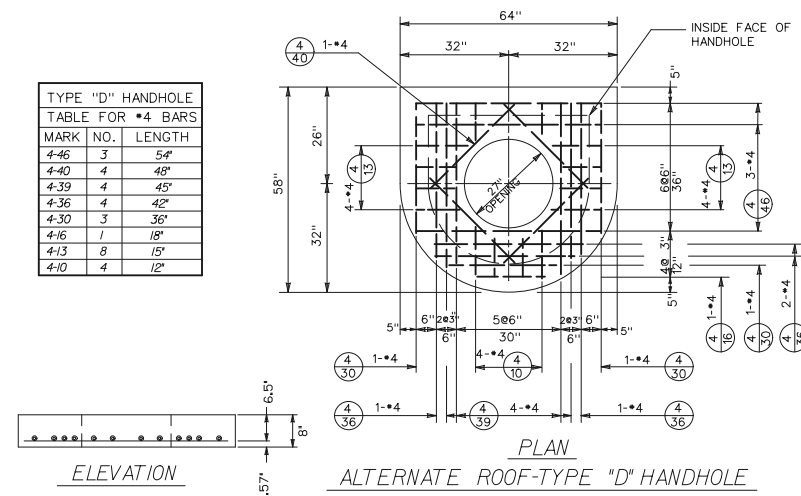
ISSUED FOR: DATE: BY:  
 JOB NO. DTE 2025-10T  
 SHEET 29

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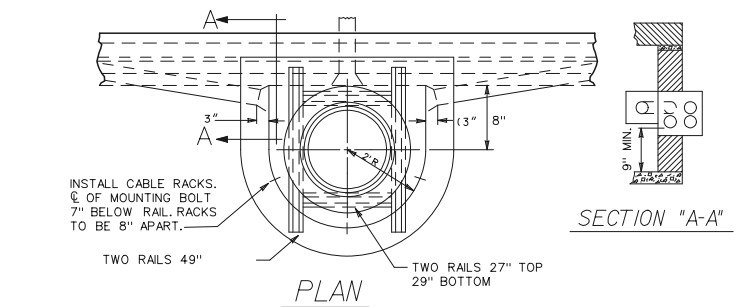
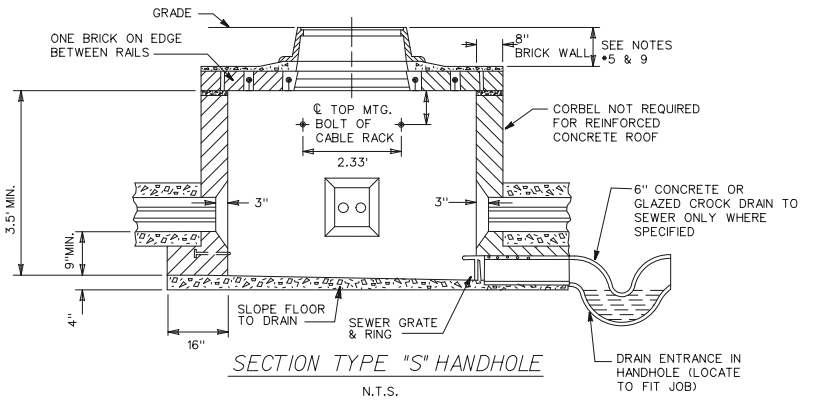
TYPE "S" HANDHOLE TABLE FOR #5 BARS		
MARK NO.	LENGTH	
5-50	2	5'
5-46	8	4.5'
5-36	4	3.5'
5-30	6	2'
5-19	10	2'
5-10	8	12'

TYPE "D" HANDHOLE TABLE FOR #4 BARS		
MARK NO.	LENGTH	
4-46	3	5-4'
4-40	4	4-8'
4-39	4	4-5'
4-36	4	4-2'
4-30	3	3-6'
4-16	1	1-8'
4-13	8	1-5'
4-10	4	1-2'

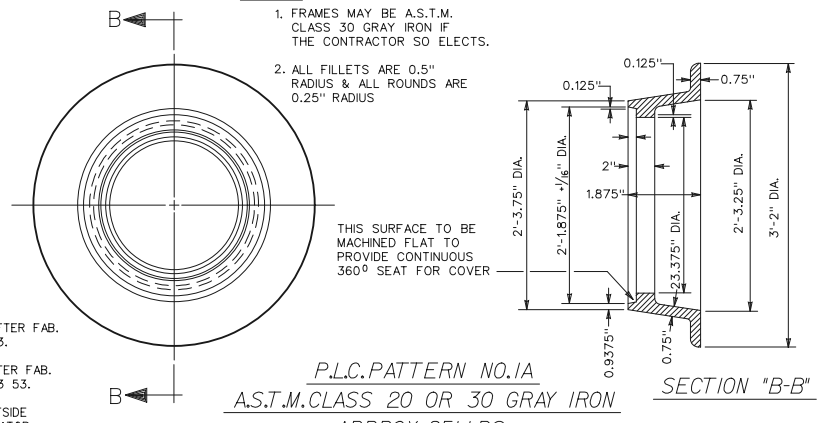


**NOTE:**  
 BELL ENDS ARE REQUIRED ON EACH CONDUIT BROKEN OUT IN HANDHOLE. TYPE AND SIZE SHALL BE IDENTICAL TO CONDUIT TYPE AND SIZE.

**NOTE:**  
 1. FRAMES MAY BE A.S.T.M. CLASS 30 GRAY IRON IF THE CONTRACTOR SO ELECTS.  
 2. ALL FILLETS ARE 0.5\"/>

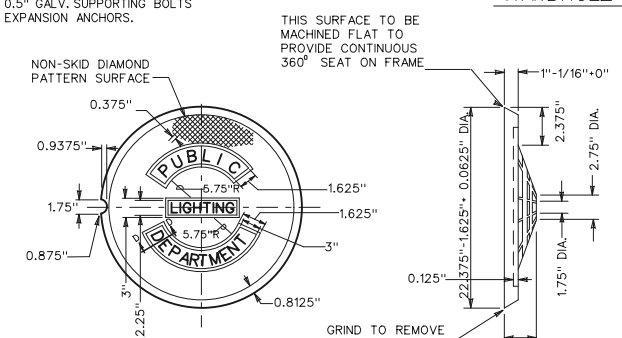
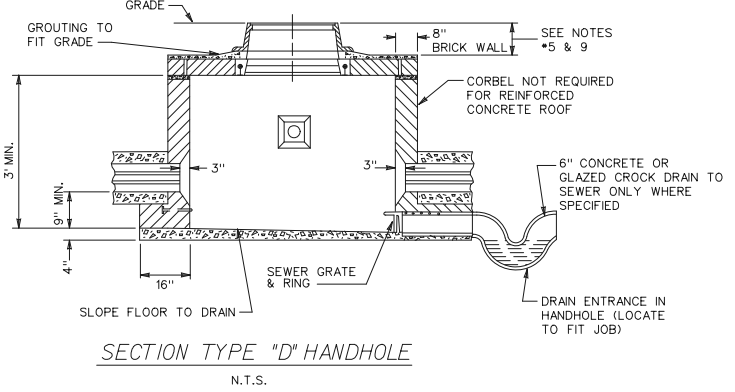


**NOTE:**  
 CABLE RACKS SHALL BE GALV. AFTER FAB. IN ACCORDANCE WITH ASTM A-123.  
 CABLE ARMS SHALL BE GALV. AFTER FAB. IN ACCORDANCE WITH ASTM A-153 S3.  
 ARMS MUST FIT ON INSIDE & OUTSIDE OF RACKS & MUST ALLOW INSULATOR TO FIT LOOSELY.  
 USE 0.5\"/>

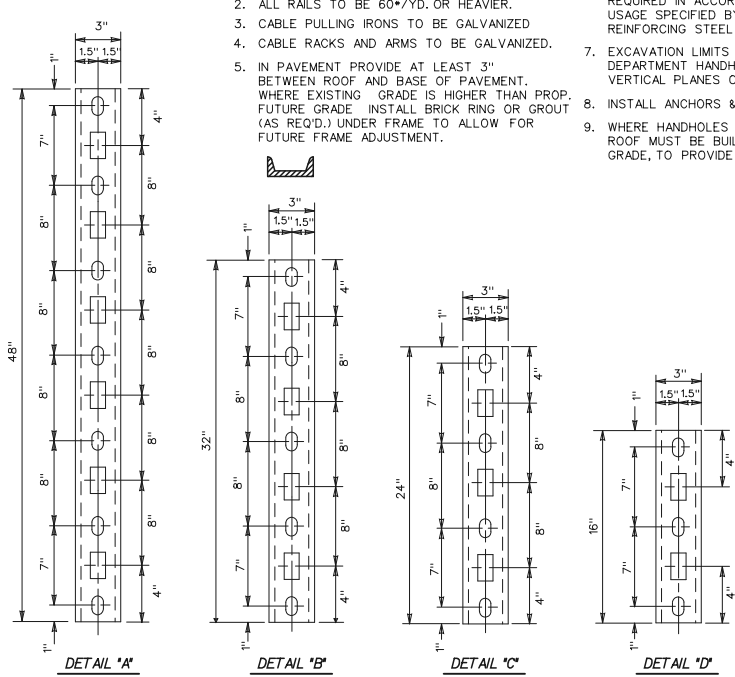


P.L.C. PATTERN NO. 1A  
 A.S.T.M. CLASS 20 OR 30 GRAY IRON  
 APPROX. 251 LBS.  
 HANDHOLE FRAME

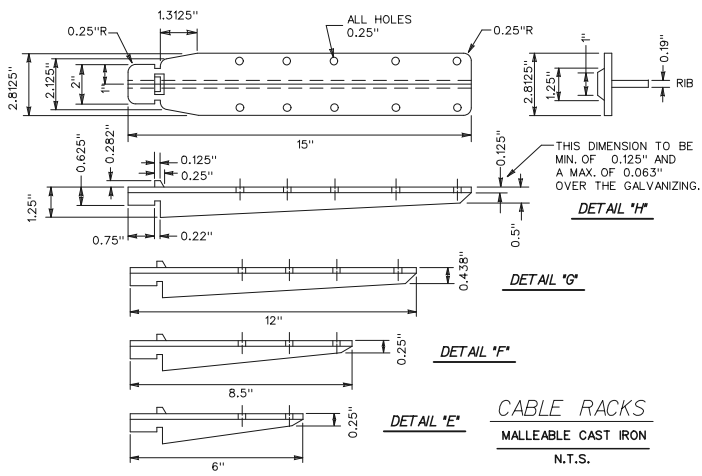
- NOTE:**
- DUCT ENTRANCE TO BE BUILT AS REQUIRED.
  - ALL RAILS TO BE 60\*/YD. OR HEAVIER.
  - CABLE PULLING IRONS TO BE GALVANIZED
  - CABLE RACKS AND ARMS TO BE GALVANIZED.
  - IN PAVEMENT PROVIDE AT LEAST 3" BETWEEN ROOF AND BASE OF PAVEMENT. WHERE EXISTING GRADE IS HIGHER THAN PROP. FUTURE GRADE INSTALL BRICK RING OR GROUT (AS REQ'D.) UNDER FRAME TO ALLOW FOR FUTURE FRAME ADJUSTMENT.
  - BAR NUMBERS DENOTE THE SIZE OF BAR REQUIRED IN ACCORDANCE WITH CURRENT USAGE SPECIFIED BY THE CONCRETE REINFORCING STEEL INSTITUTE.
  - EXCAVATION LIMITS FOR PUBLIC LIGHTING DEPARTMENT HANDHOLES SHALL BE ON VERTICAL PLANES OF THE FOOTING OUTLINE.
  - INSTALL ANCHORS & CABLE-RACKS AS SHOWN.
  - WHERE HANDHOLES ARE LOCATED BACK OF CURBS ROOF MUST BE BUILT 18" BELOW CURB GRADE, TO PROVIDE FOR FUTURE WIDENING.



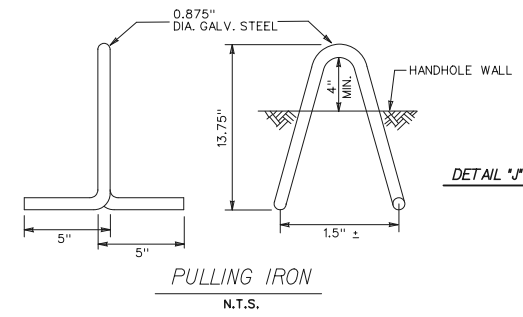
P.L.C. PATTERN NO. 2A  
 A.S.T.M. CLASS 30 GRAY IRON  
 APPROX. WT. 145 LBS.  
 STREET TYPE COVER  
 TO BE USED IN STREETS & DRIVES



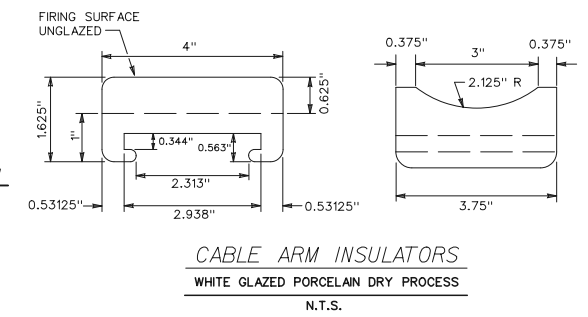
CABLE RACKS  
 3" STD. 4.1" CHANNEL  
 N.T.S.



CABLE RACKS  
 MALLEABLE CAST IRON  
 N.T.S.



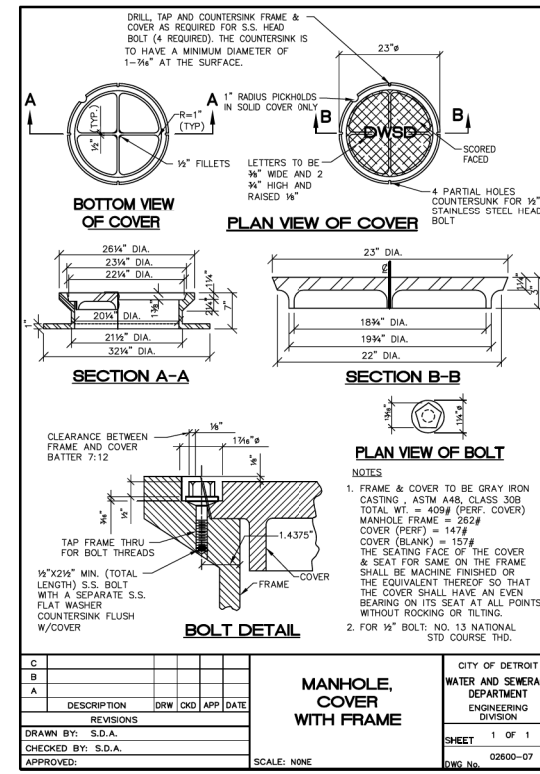
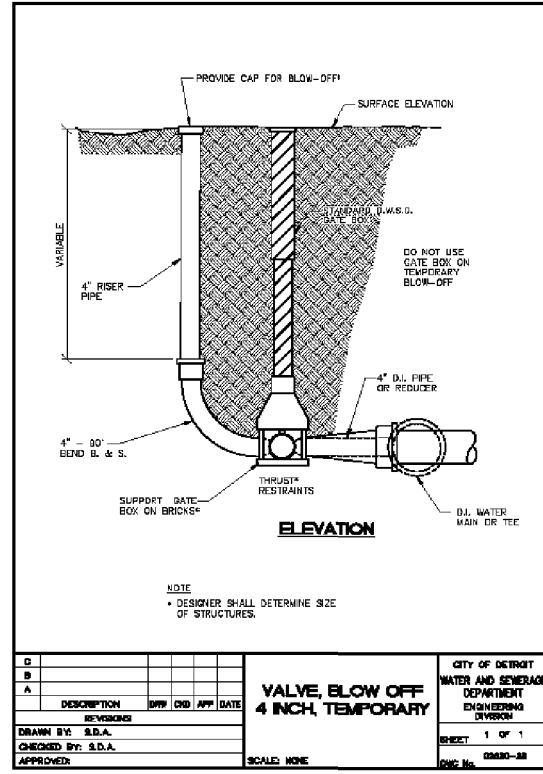
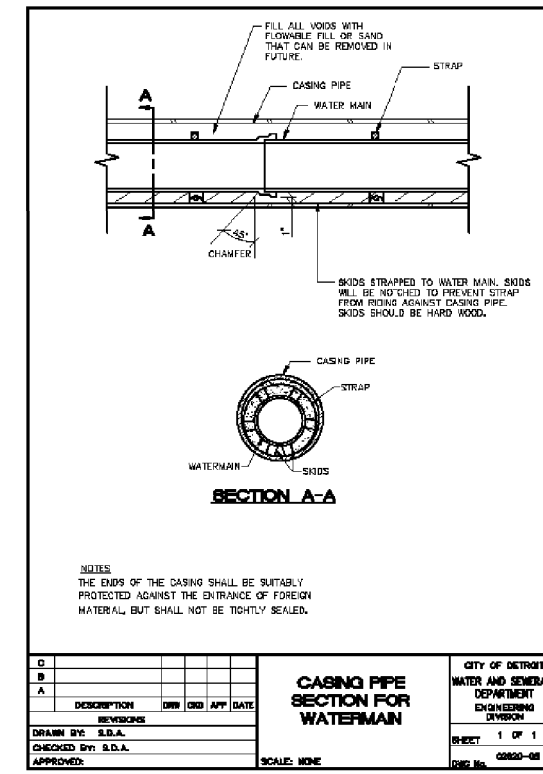
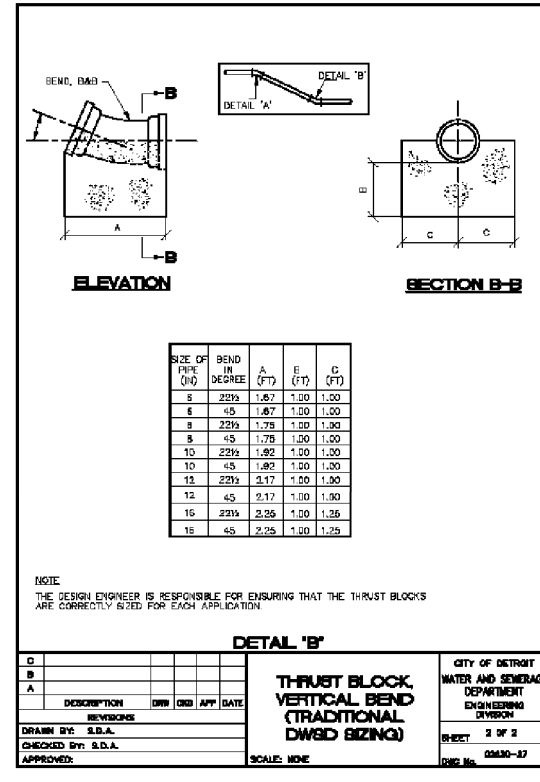
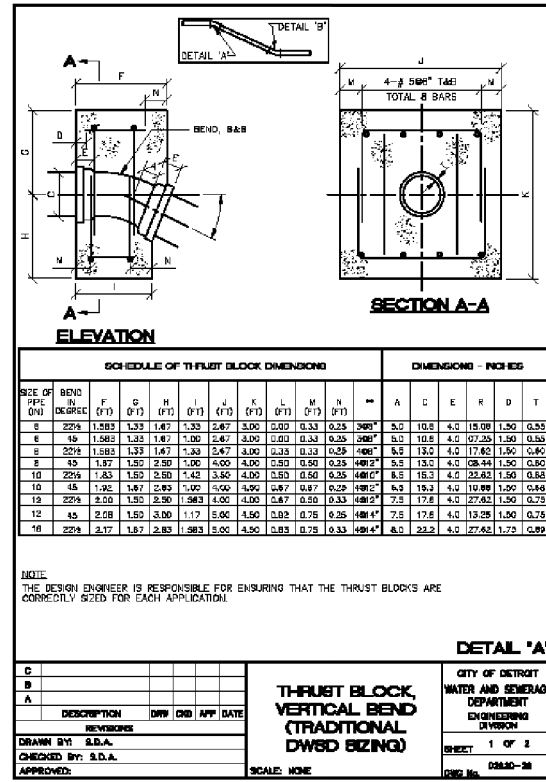
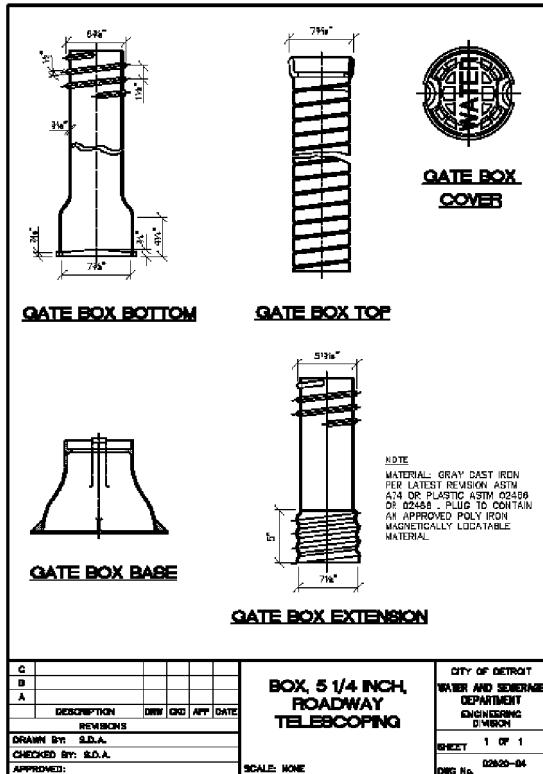
PULLING IRON  
 N.T.S.



CABLE ARM INSULATORS  
 WHITE GLAZED PORCELAIN DRY PROCESS  
 N.T.S.

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED 4/22/2013 11:27:15 AM BY: Agronowski	DESCRIPTION
CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION DIVISION ST. OVER DEQUINDRE CUT HANDHOLE DETAILS	DATE
ISSUED FOR: DATE: BY:	REV
JOB NO. DTE 2025-10T	DATE
SHEET 30	DATE

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**NOTES:**

WORK THIS SHEET WITH SHEET 29.

THRUST BLOCKS ARE INCLUDED IN THE PAY ITEM "WATER MAIN, DI, 12 INCH, TR DET G".

THE 4"-90° BEND, 4" RISER PIPE AND BLOW OFF CAP SHALL BE INCLUDED IN THE PAY ITEM "GATE VALVE AND BOX, 4 INCH".

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

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CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERING DIVISION  
DIVISION ST. OVER DEQUINDRE CUT  
DWS D WATER MAIN DETAILS

NO.	DATE	DESCRIPTION

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-10T

SHEET 31

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BAR	DIMENSIONS												NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h	i	j	k	l			
EA081409	14'-9"													16	630
EA081600	16'-0"													08	342
EA082107	21'-7"													08	461
EA082400	24'-0"													32	2051
EA082610	26'-10"													24	1719
EA082806	28'-6"													48	3653
EA083903	39'-3"													128	13414
EB080800	4'-0"	4'-0"												08	171
EB081009	8'-3"	2'-6"												20	574
EB090902	7'-5"	1'-9"												680	21193
EB091002	7'-5"	2'-9"												220	7605
ED040606	1'-9"	2'-6"	1'-9"											90	391
ED070906	1'-9"	6'-0"	1'-9"											436	8466
ED090706	2'-9"	4'-0"	1'-9"											82	2091
EK040708	1'-7 1/4"	1'-5 1/4"	1'-5"	1'-7 1/4"										216	1106
EK041010	2'-6"	1'-10"	1'-10"	2'-0"										216	1563
TOTAL = 65430															

BAR	DIMENSIONS												NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h	i	j	k	l			
EA081209	12'-9"													24	817
EA081400	14'-0"													12	449
EA081907	19'-7"													12	627
EA082610	26'-10"													40	2866
EA082706	27'-6"													52	3818
ED091100	4'-6"	2'-0"	4'-6"											340	12716
ED091206	4'-6"	3'-6"	4'-6"											110	4675
EC040300	0'-0"	2'-6"	0'-4 1/4"	0'-4 1/4"	0'-6"	0"	0"							4	8
EU060409	2'-0"	1'-6"	1'-9"	1'-6"	1'-0"									6	43
TOTAL = 26019															

BAR	DIMENSIONS												NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h	i	j	k	l			
EA040203	2'-3"		6" THREADED ONE END											384	577
EA043308	33'-8"													24	540
EA060311	3'-11"		6" THREADED ONE END											16	94
ED040309	1'-2"	1'-6"	1'-2"											24	60
TOTAL = 1271															

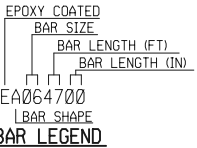
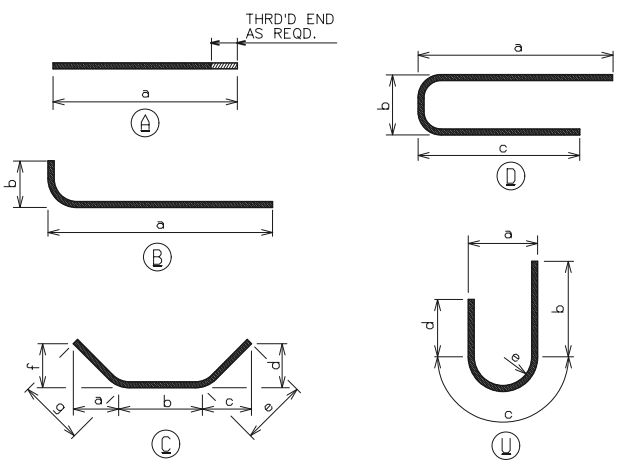
BAR	DIMENSIONS												NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h	i	j	k	l			
EA040311	3'-11"		6" THREADED ONE END											182	476
EA040708	7'-8"													6	31
EA041100	11'-0"													6	44
EA041406	14'-6"													6	58
EA042503	25'-3"													6	101
TOTAL = 710															

**BILL OF MATERIALS: ROAD ITEMS (PART 1)**

ITEM NUMBER	ITEM DESCRIPTION	TOTAL PLAN QUANTITY	ITEM UNIT
1027051	AUDIO-VISUAL FILMING	1	LS
1500001	MOBILIZATION, MAX.	1	LS
2040050	PAVT, REM	345	SYD
2040055	SIDEWALK, REM	180	SYD
2050010	EMBANKMENT, CIP	266	CYD
2050016	EXCAVATION, EARTH	439	CYD
2050030	MACHINE GRADING	2	STA
3010002	SUBBASE, CIP	30	CYD
3020010	AGGREGATE BASE, 4 INCH	230	SYD
4011136	STEEL CASING PIPE, 24 INCH, TR DET G	98	FT
4030010	DR STRUCTURE COVER, TYPE B	1	EA
4030306	DR STRUCTURE, TAP, 6 INCH	3	EA
4040033	UNDERDRAIN, FDN, 6 INCH	210	FT
4040093	UNDERDRAIN OUTLET, 6 INCH	85	FT
5010005	HMA SURFACE, REM	345	SYD
6020166	CONC PAVT WITH INTEGRAL CURB, NONREINF, 9 INCH	230	SYD
6020203	JOINT, CONTRACTION, CP	470	FT
7067021	FLOWABLE FILL, NON-STRUCTURAL	4	CYD
8030044	SIDEWALK, CONC, 4 INCH	2415	SFT
8100340	POST HOLE THROUGH CONC FOR STEEL POST	2	EA
8100371	POST, STEEL, 3LB	28	FT
8100403	SIGN, TYPE III, REM	22	EA
8100405	SIGN, TYPE IIIB	13	SFT
8120022	BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED, FURN	12	EA
8120023	BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED, OPER	12	EA
8120170	MINOR TRAF DEVICES	1	LS
8120350	SIGN, TYPE B, TEMP, PRISMATIC, FURN	391	SFT
8120351	SIGN, TYPE B, TEMP, PRISMATIC, OPER	355	SFT
8120352	SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, FURN	224	SFT
8120353	SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, OPER	204	SFT
8160100	SLOPE RESTORATION, TYPE A	13	SYD
8190016	CABLE, REM	95	FT
8190152	CONDUIT, SCHEDULE 40, 5 INCH	205	FT
8190207	DB CABLE, IN CONDUIT, 600V, 1/C#4	250	FT
8190244	Hh, ADJ	2	EA
8190254	Hh, REM	2	EA
8190262	Hh, TYPE D	4	EA
8197050	LIGHT STANDARD, COMPLETE	4	EA
8197050	PROTECTION, FIBER OPTIC LINE	16	EA
8197050	PROTECTIVE SLEEVE, FIBER OPTIC LINE	16	EA
8197050	COORDINATION, FIBER OPTIC LINE	1	LS
8230050	GATE VALVE AND BOX, 4 INCH	1	EA
8230166	WATER MAIN, DI, 12 INCH, TR DET G	167	FT
8230360	GATE WELL, 60 INCH DIA	1	EA
8230431	GATE BOX, ADJ, CASE 1	2	EA
8237001	WATER MAIN, REM	40	FT

**BILL OF MATERIALS: BRIDGE ITEMS (PART 2)**

ITEM NUMBER	ITEM DESCRIPTION	TOTAL PLAN QUANTITY	ITEM UNIT
2047051	STRUCTURES, REM PORTIONS, MODIFIED	1	LS
2060010	EXCAVATION, FDN	1144	CYD
2060002	BACKFILL, STRUCTURE, CIP	1186	CYD
2080020	EROSION CONTROL, INLET PROTECTION, FABRIC DROP	3	EA
2080036	EROSION CONTROL, SILT FENCE	550	FT
2090001	PROJECT CLEANUP	1	LS
4067001	CULV, PRECAST THREE-SIDED OR ARCH, MODIFIED 32 FOOT BY 11 FOOT	100	FT
7040003	STEEL SHEET PILING, TEMP, LEFT-IN-PLACE	750	SFT
7050001	PREBORE, FDN PILING	1020	FT
7050002	PILE DRIVING EQUIPMENT, FURN	1	LS
7050030	PILE, STEEL, FURN AND DRIVEN, 12 INCH	7480	FT
7050031	TEST PILE, STEEL, 12 INCH	3	EA
7050039	PILE POINT, STEEL	60	EA
7050050	PILE, STEEL, SPLICE	187	EA
7057050	TEST PILE, DYNAMIC ANALYSIS	3	EA
7057050	TEST PILE, DYNAMIC ANALYSIS EQUIP	3	EA
7057051	MONITORING VIBRATIONS	1	LS
7060012	CONC, GRADE S2, SUBFOOTING	26	CYD
7060020	CONC, LOW TEMPERATURE PROTECTION	416	CYD
7060092	REINFORCEMENT, STEEL, EPOXY COATED	93430	LB
7060100	SUBSTRUCTURE CONC	393	CYD
7067011	TEXTURING CONC	115	SYD
7067021	FLOWABLE FILL	67	CYD
7087010	WINGWALL, PRECAST	840	SFT
7100001	JOINT WATERPROOFING	1080	SFT
7100011	CONC SURFACE COATING	575	SYD
7117001	AESTHETIC CONCRETE RAILING, SPECIAL	60	FT
7117001	BRIDGE RAILING, AESTHETIC PARAPET TUBE, DETAIL 2, MODIFIED	137	FT
8087010	PEDESTRIAN FENCE, SPECIAL	822	SFT



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

MISCELLANEOUS QUANTITIES	
93,430	LB REINFORCEMENT, STEEL, EPOXY COATED

CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERING DIVISION  
DIVISION ST. OVER DEQUINDRE CUT  
BILL OF MATERIALS/STEEL REINFORCEMENT

DIVISION STREET BRIDGE

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-10T

SHEET 32

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