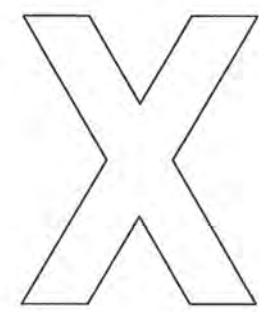
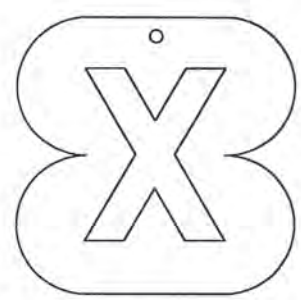


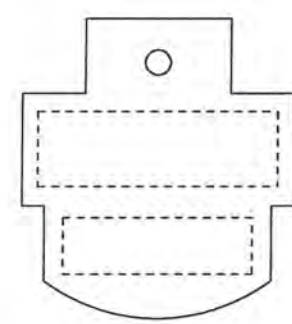
24,000 VOLT TRUNK LINE



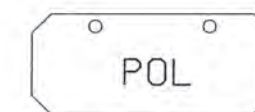
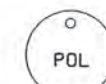
O.H. LINE PHASE TAG



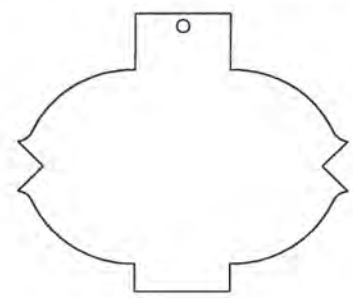
O.H. LINE OR POTHEAD PHASE TAG



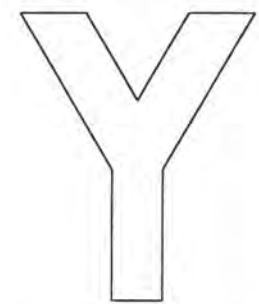
MULTIPLE STREET LIGHTING ALL VOLTAGES



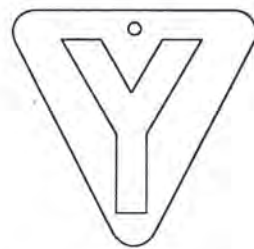
COMMUNICATION



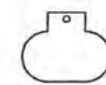
24,000 VOLT FEEDER



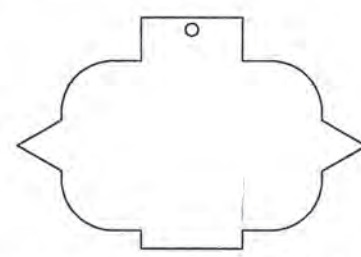
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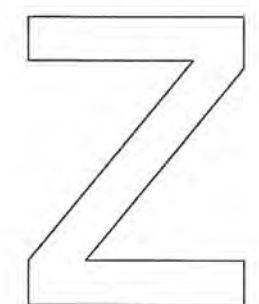
O.H. LINE OR POTHEAD PHASE TAG



MULTIPLE INC. LTG.



13200 VOLT FEEDER



O.H. LINE PHASE TAG



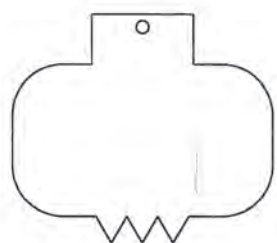
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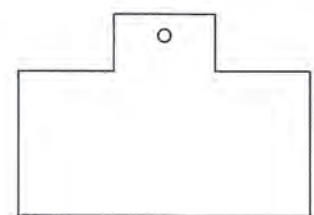
TRAFFIC SIGNALS

SUBSTATION & CIRCUIT ABBREVIATIONS ON IDENTIFICATION TAGS SHALL BE SPELLED AS FOLLOWS

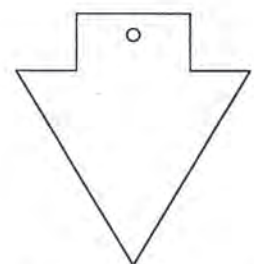
- | | | |
|------|------|------|
| BEL. | KSG. | POR. |
| BUT. | LAB. | RUS. |
| CAN. | LEE. | STA. |
| COB. | LOT. | STO. |
| CON. | LUD. | TOW. |
| CUS. | MAP. | TRI. |
| GRF. | MCC. | TUR. |
| HUD. | MON. | WAL. |
| JSC. | PAL. | WSU. |
| JOY. | PHI. | JEF. |



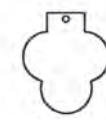
7200 VOLT FEEDER



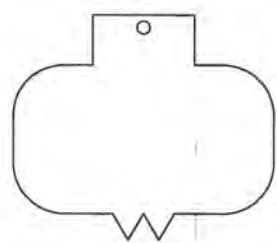
SUPERVISORY CONTROL



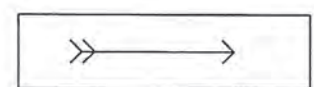
DEAD CABLE



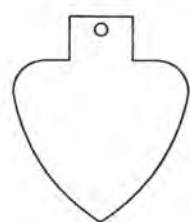
SECONDARY POWER TO SAFETY ISLANDS & TRAFFIC SIGNALS



4800 & 5500 VOLT FEEDER



CIRCUIT DIRECTION



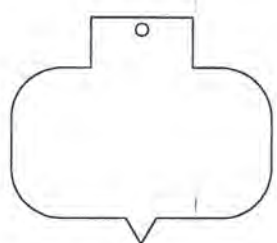
8/C COND. CABLE



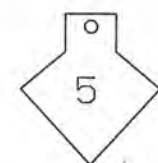
TRAFFIC SIGNAL CHRONOLIZER

NOTE:

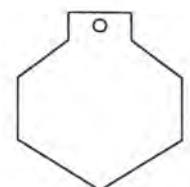
LEAD CABLE IDENTIFICATION TAGS WILL BE FURNISHED TO CONTRACTOR BY P.L.D. CABLE TAG MARKINGS SUCH AS SUBSTATION OR CABLE MARKINGS WILL BE AS SHOWN ON PLANS OR WILL BE FURNISHED BY P.L.D.



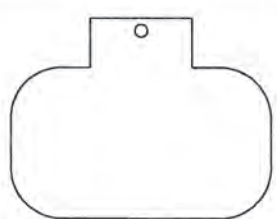
2400 VOLT FEEDER



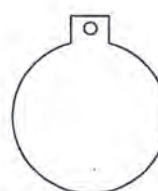
ST. LTG. COND. NO. (FROM 8/C CABLE)



MULTIPLE LTG, CONTROL



MISCELLANEOUS



ST. LTG. CIRC. NUMBER

IDENTIFICATION TAGS

MATERIAL : LEAD

JEFFERSON AVE OVER DEQUINDRE CUT

CABLE TAGS DETAILS

MANSSELL ASSOCIATES INC.



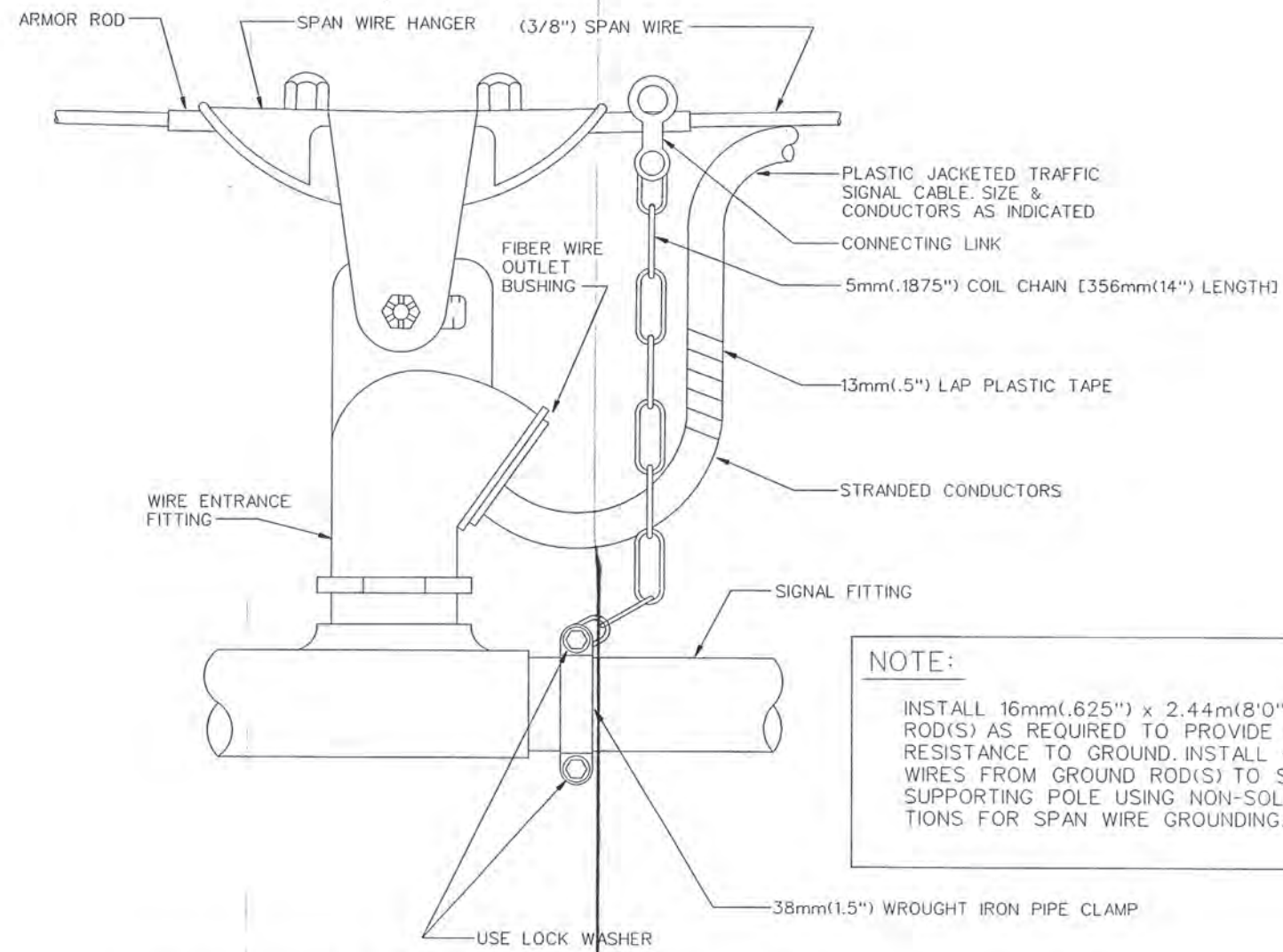
ENGINEERING CONSULTANTS
33608 Grand River
Farmington, MI. 48335
(248) 473-7070

Drawn M.A.I.
Checked
Drwg. No. 21 OF 25
File No. M4044

Scale No Scale
Checked by
Approved by

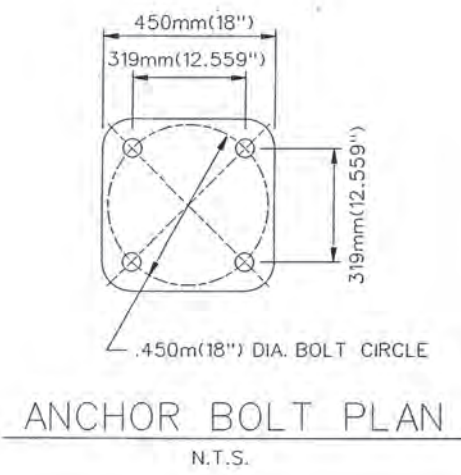
PUBLIC LIGHTING DEPARTMENT
CITY OF DETROIT

208
27-1104
Sheet No. 41
Date 02-11-05

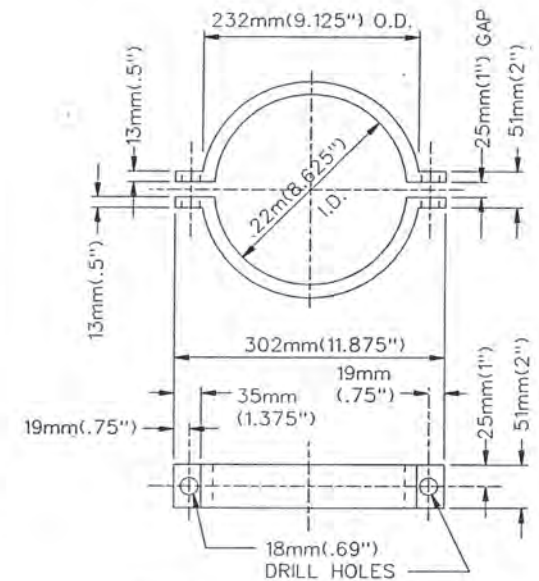


SPAN WIRE FITTING & WEATHER CAP
N.T.S.

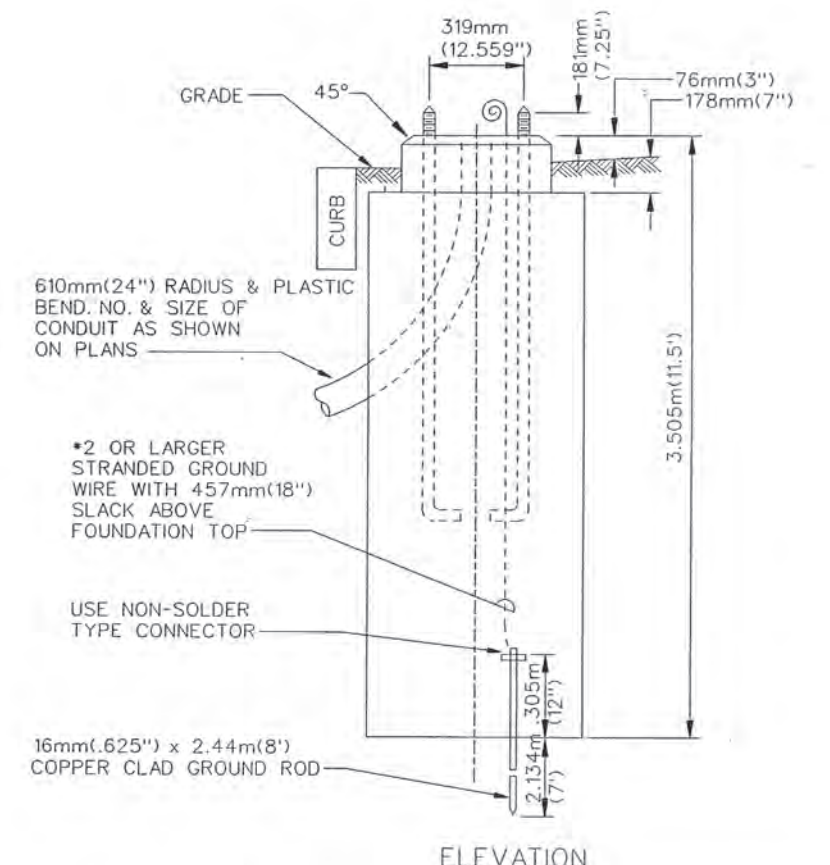
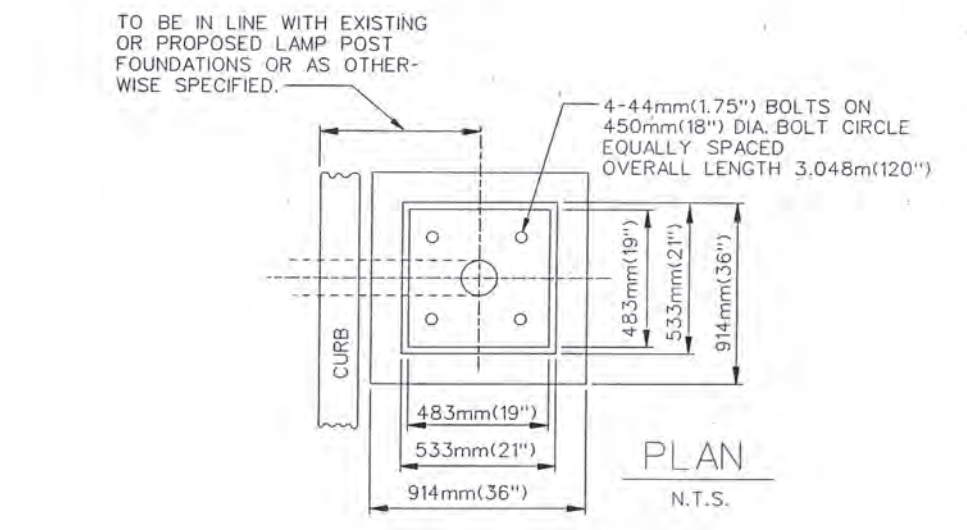
NOTE:
INSTALL 16mm(.625") x 2.44m(8'0") COPPER CLAD GROUND ROD(S) AS REQUIRED TO PROVIDE LESS THAN 10 OHM RESISTANCE TO GROUND. INSTALL *2 COPPER GROUND WIRES FROM GROUND ROD(S) TO SPAN WIRE AT EACH SUPPORTING POLE USING NON-SOLDER TYPE CONNECTIONS FOR SPAN WIRE GROUNDING.



ANCHOR BOLT PLAN
N.T.S.

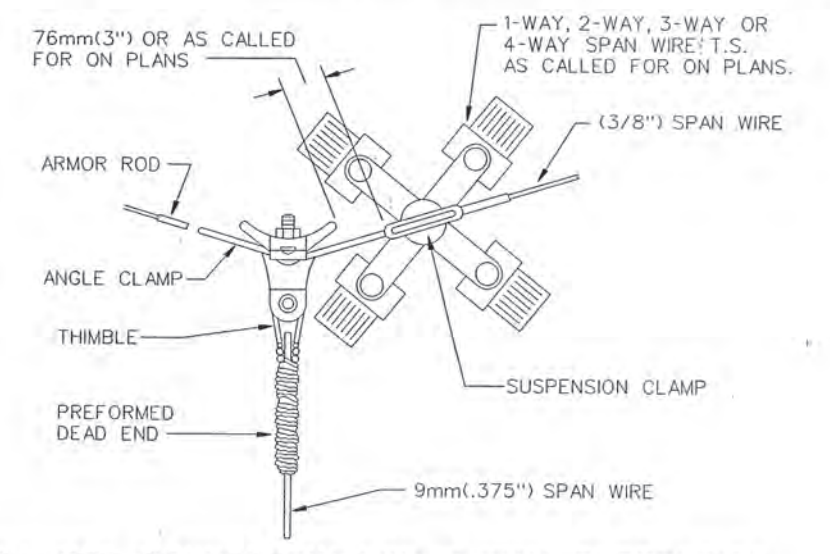


SPAN WIRE CLAMP
N.T.S.
MATERIAL: 13mm(.5") X 13mm(.5") GALVANIZED STEEL

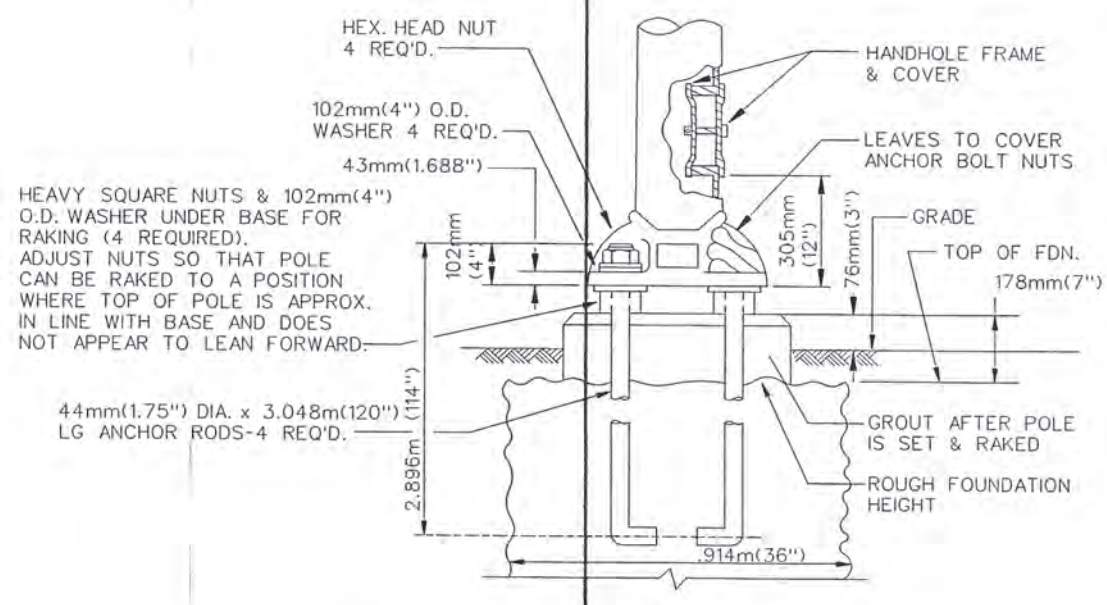


SPAN WIRE STEEL POLE FOUNDATION
N.T.S.

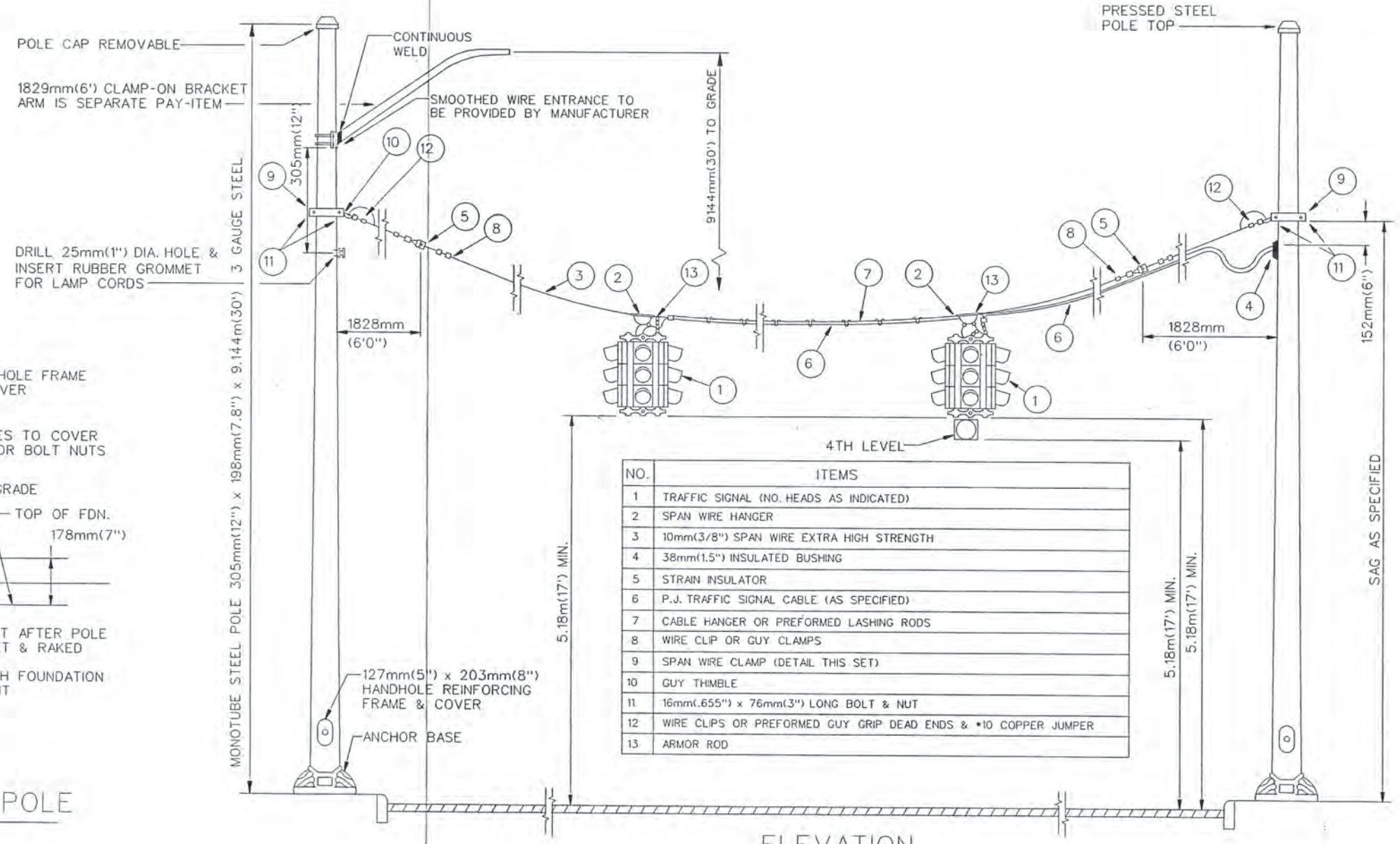
ALL FOUNDATION CAPS SHALL HAVE A SMOOTH FINISH WITH BEVELED EDGES & SHALL BE SHAPED TO ALLOW COMPLETE DRAINAGE OF WATER. ANCHOR BOLT PROJECTIONS ABOVE CAP SHALL BE CLEANED OF ALL CONCRETE & FULLY USABLE THEIR FULL LENGTH.



PULL-OFF CONNECTION FOR 3-WAY SUSPENSION



BOLT LAYOUT FOR STRAIN POLE FOUNDATION
N.T.S.



NO.	ITEMS
1	TRAFFIC SIGNAL (NO. HEADS AS INDICATED)
2	SPAN WIRE HANGER
3	10mm(3/8") SPAN WIRE EXTRA HIGH STRENGTH
4	38mm(1.5") INSULATED BUSHING
5	STRAIN INSULATOR
6	P.J. TRAFFIC SIGNAL CABLE (AS SPECIFIED)
7	CABLE HANGER OR PREFORMED LASHING RODS
8	WIRE CLIP OR GUY CLAMPS
9	SPAN WIRE CLAMP (DETAIL THIS SET)
10	GUY THIMBLE
11	16mm(.655") x 76mm(3") LONG BOLT & NUT
12	WIRE CLIPS OR PREFORMED GUY GRIP DEAD ENDS & *10 COPPER JUMPER
13	ARMOR ROD

ELEVATION
N.T.S.

DISK FILE: 507PDM.MTR

Date	Description	Chkd. by

JEFFERSON AVE OVER DEQUINDRE CUT
STEEL POLE T.S.SPAN WIRE INSTALLATION (CODE 113-00)

Job No.
4917A

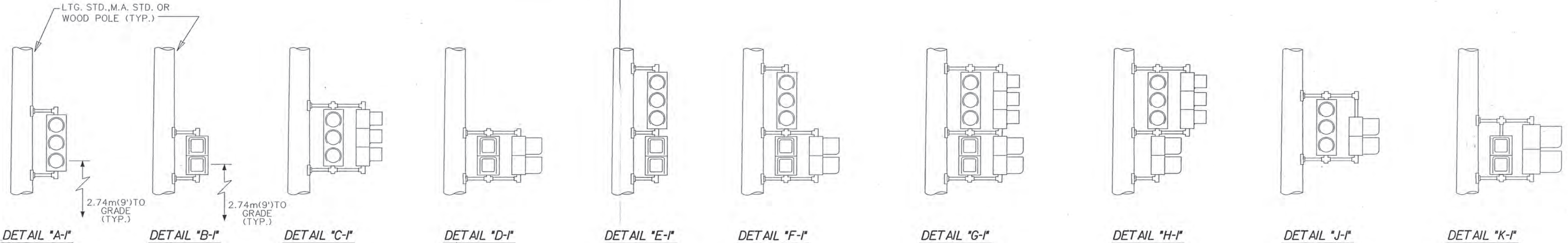
MANSELL ASSOCIATES INC.
ENGINEERING CONSULTANTS
33608 Grand River
Farmington, MI. 48335
(248) 473-7070

Drawn M.A.I.
Checked
Drwg. No. 22 OF 25
File No. M4044

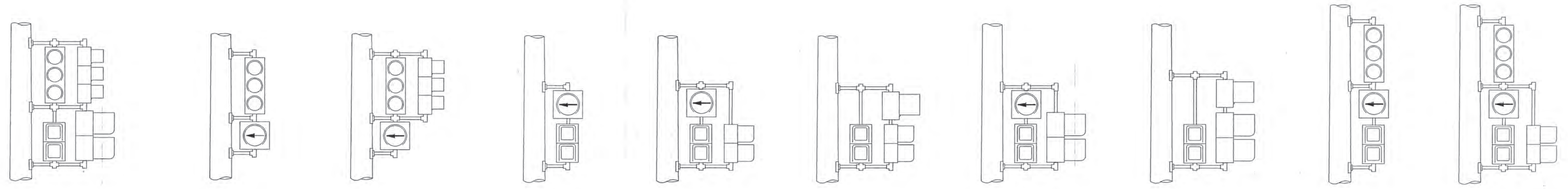
No Scale
Checked by
Approved by

PUBLIC LIGHTING DEPARTMENT
CITY OF DETROIT

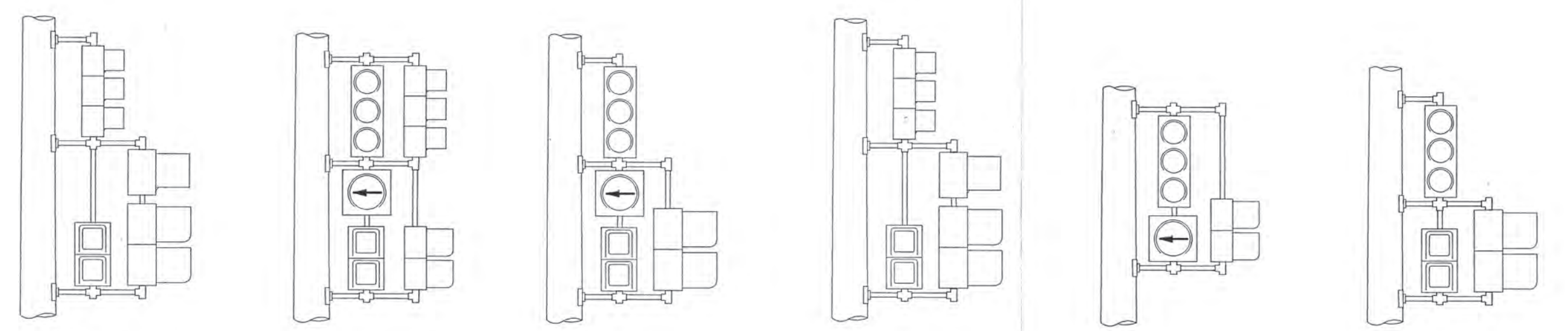
507
27-1104
Sheet No. 42
Date 02-11-05



DETAIL "A-I" DETAIL "B-I" DETAIL "C-I" DETAIL "D-I" DETAIL "E-I" DETAIL "F-I" DETAIL "G-I" DETAIL "H-I" DETAIL "J-I" DETAIL "K-I"



DETAIL "L-I" DETAIL "M-I" DETAIL "N-I" DETAIL "P-I" DETAIL "Q-I" DETAIL "R-I" DETAIL "S-I" DETAIL "T-I" DETAIL "U-I" DETAIL "V-I"



DETAIL "W-I" DETAIL "X-I" DETAIL "Y-I" DETAIL "Z-I" DETAIL "A-A-I" DETAIL "B-B-I"

NOTE:
 THE RELATIVE POSITION OF 2-WAY T.S. & PEDESTRIAN BRACKET ARM SIGNALS WITHIN THE BRACKET ASSEMBLY SHALL BE REVERSED (I.E. THE SIGNAL NEAREST THE POLE GOES TO THE OUTSIDE OF THE BRACKET ASSEMBLY & THE OUTSIDE SIGNAL GOES INBOARD OR NEAREST TO POLE) ACCORDING TO THE PLAN VIEW TO PROVIDE CLEAR VEHICULAR AND PEDESTRIAN VIEWING.

NOTE:
 PIPE ASSEMBLY SHALL BE OF SUCH LENGTH AND HEIGHT AS TO ACCOMMODATE TRAFFIC SIGNALS AND PEDESTRIAN SIGNALS FOR PROPER MAINTENANCE AND CLEAR VEHICULAR AND PEDESTRIAN VIEWING.

DISK FILE: 508PLD.MTR

Date	Description	Chkd. by

JEFFERSON AVE OVER DEQUINDRE CUT
 T.S. BRACKET ARM ASSEMBLY DETAILS

Job No.
49717A

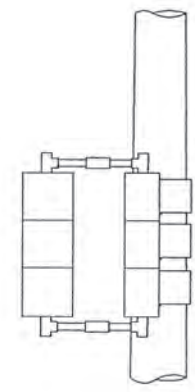
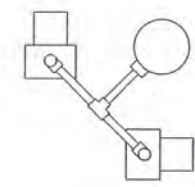
MANSSELL ASSOCIATES INC.
 ENGINEERING CONSULTANTS
 33608 Grand River
 Farmington, MI. 48335
 (248) 473-7070

Drawn: M.A.I.
 Checked: No Scale
 Drwg. No. 23 OF 25
 File No. M4044

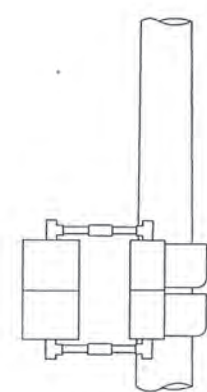
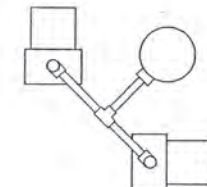
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 Approved by:

PUBLIC LIGHTING DEPARTMENT
 CITY OF DETROIT

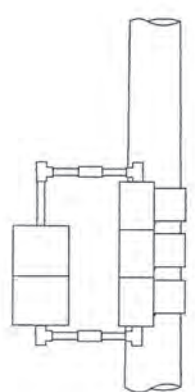
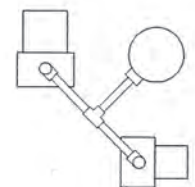
508
 27-1104
 Sheet No. 43
 Date 02-11-05



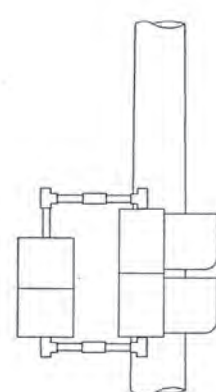
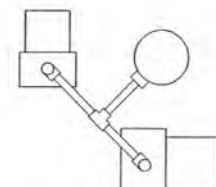
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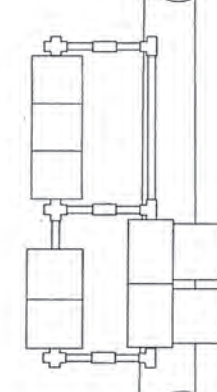
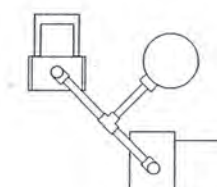
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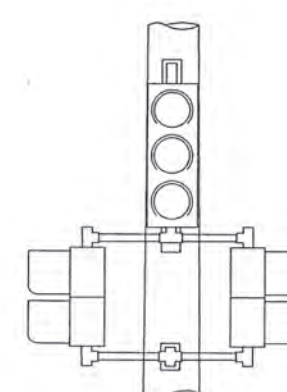
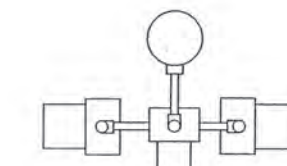
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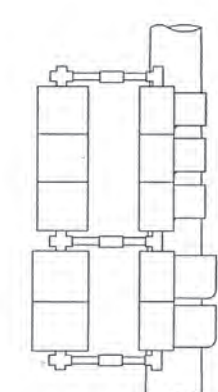
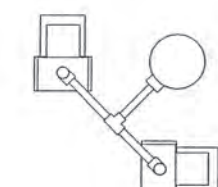
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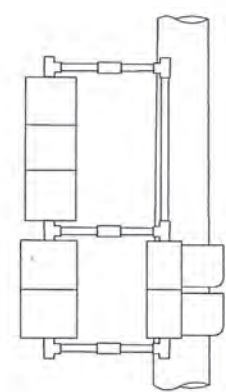
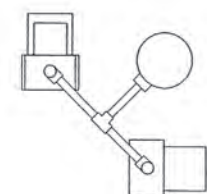
DETAIL "E-3"



DETAIL "F-3"



DETAIL "G-3"



DETAIL "H-3"

NOTE:

THE RELATIVE POSITION OF 2-WAY T.S. & PEDESTRIAN BRACKET ARM SIGNALS WITHIN THE BRACKET ASSEMBLY SHALL BE REVERSED (I.E. THE SIGNAL NEAREST THE POLE GOES TO THE OUTSIDE OF THE BRACKET ASSEMBLY & THE OUTSIDE SIGNAL GOES INBOARD OR NEAREST TO POLE) ACCORDING TO THE PLAN VIEW TO PROVIDE CLEAR VEHICULAR AND PEDESTRIAN VIEWING.

NOTE:

PIPE ASSEMBLY SHALL BE OF SUCH LENGTH AND HEIGHT AS TO ACCOMMODATE TRAFFIC SIGNALS AND PEDESTRIAN SIGNALS FOR PROPER MAINTENANCE AND CLEAR VEHICULAR AND PEDESTRIAN VIEWING.

REVISIONS	Date	Description	Chkd. by

JEFFERSON AVE OVER DEQUINDRE CUT

T.S. BRACKET ARM ASSEMBLY DETAILS

Job No.
49717A

MANSELL ASSOCIATES INC.



ENGINEERING CONSULTANTS
33608 Grand River
Farmington, MI. 48335
(248) 473-7070

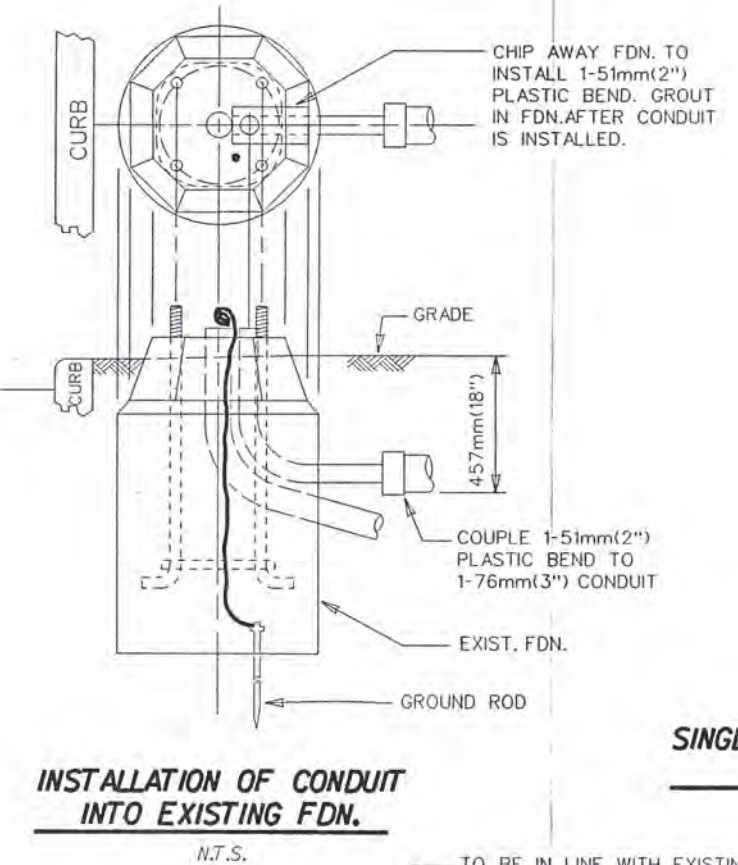
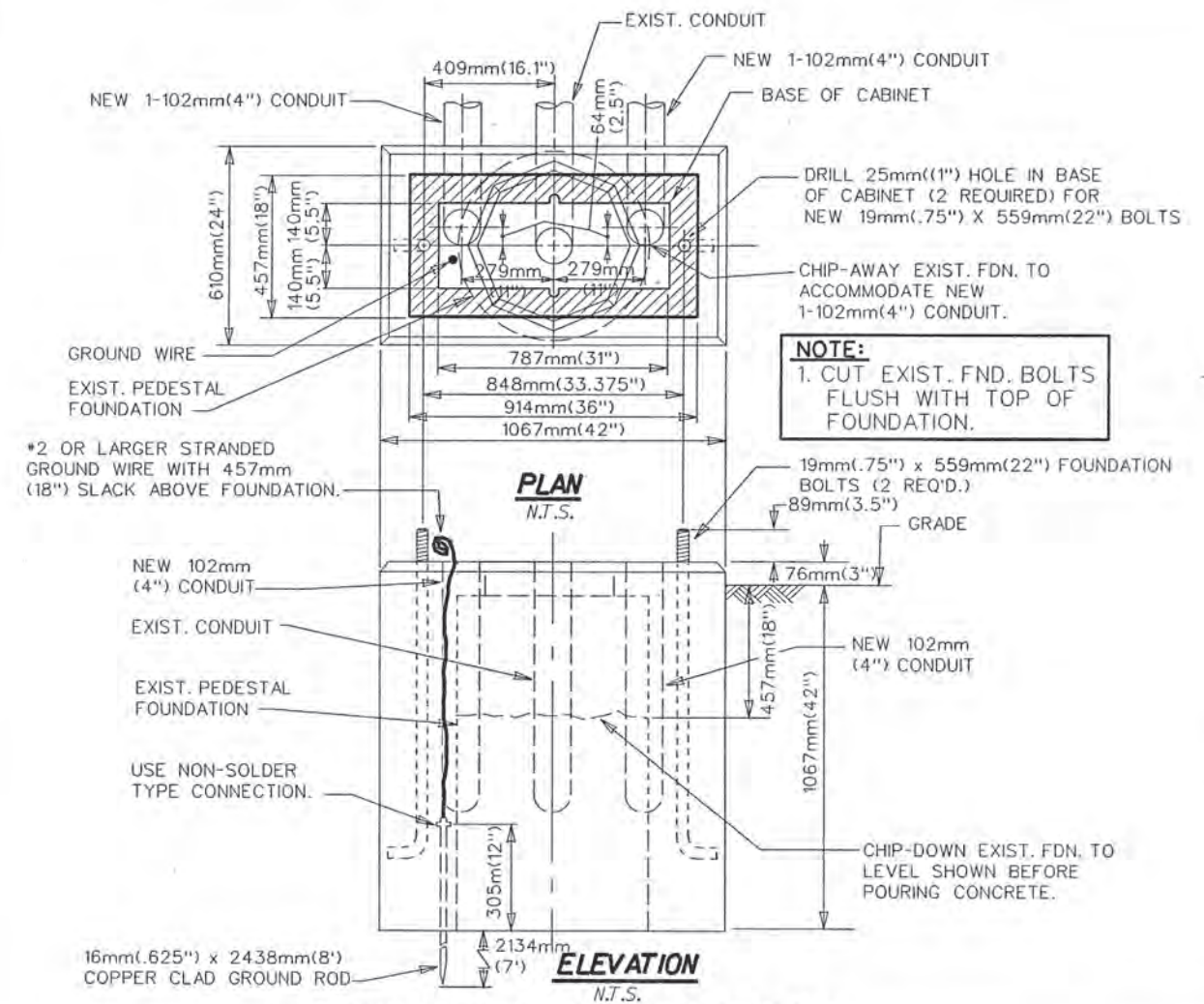
Drawn: M.A.I.
Checked
Drwg. No.
24 OF 25
File No.
M4044

Scale
No Scale
Checked by
Approved by

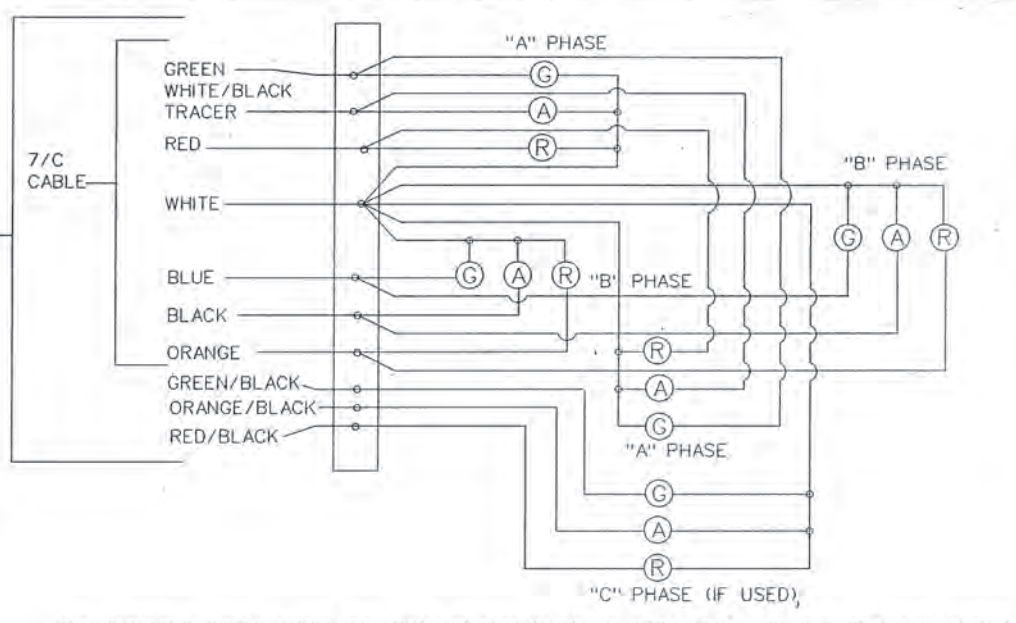
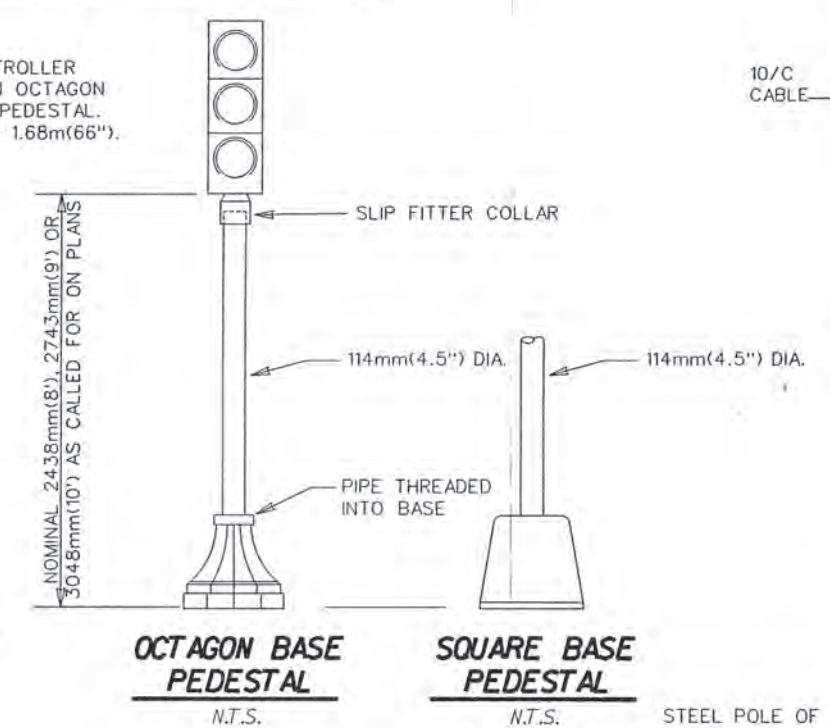
**PUBLIC LIGHTING
DEPARTMENT**
CITY OF DETROIT

510
27-1104
Sheet No.
44
Date
02-11-05

NOTE:
GROUNDING SYSTEM SHALL MEASURE
10 OHM OR LESS TO GROUND.

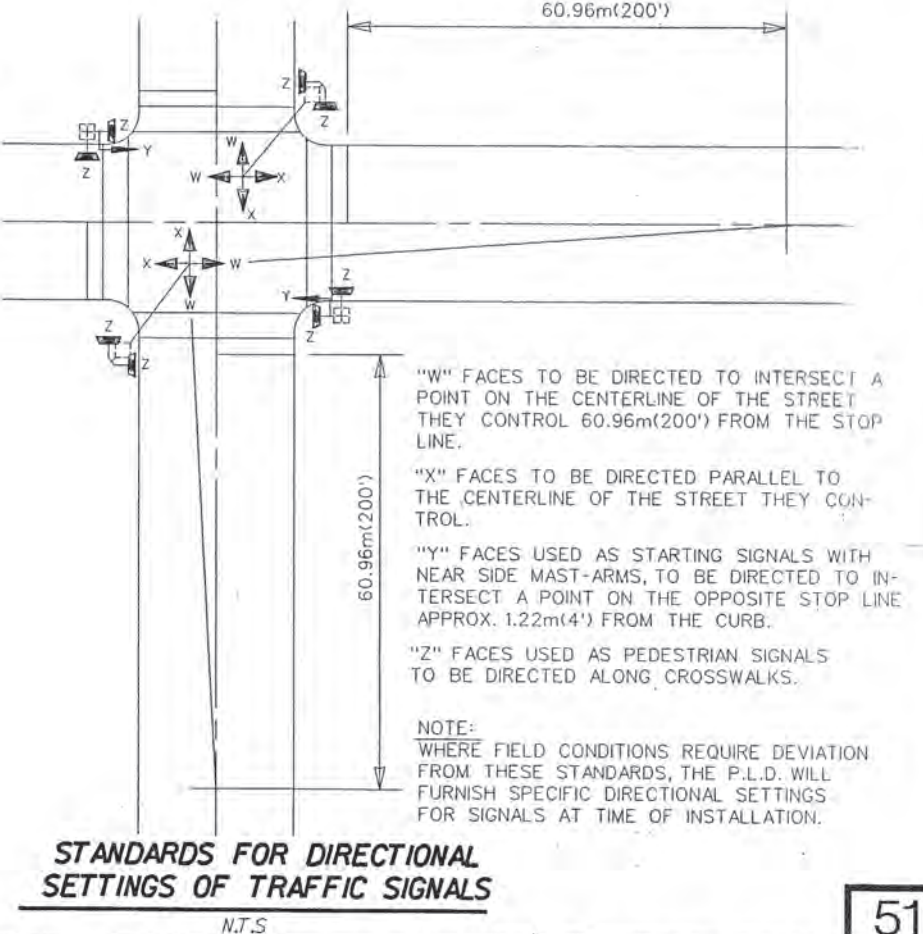
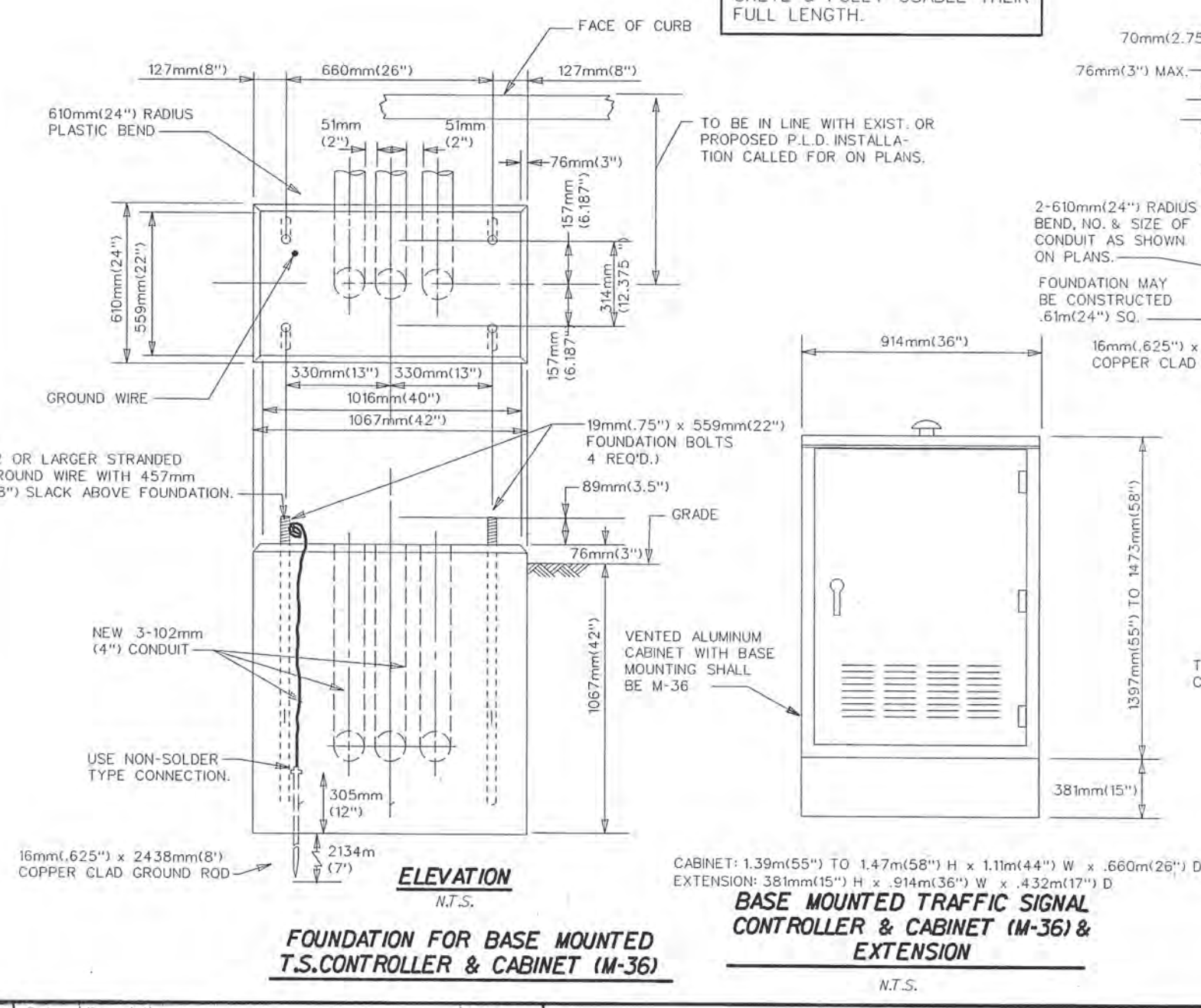
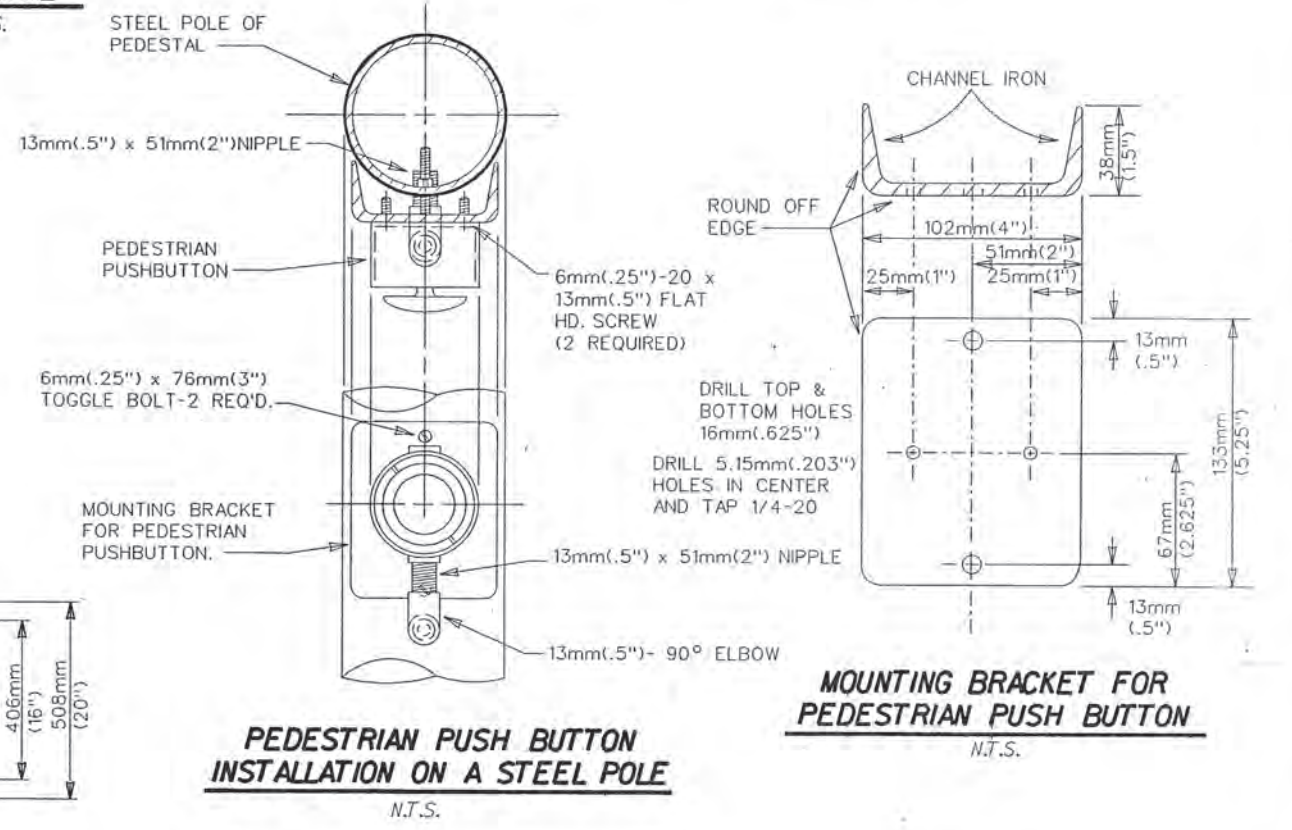
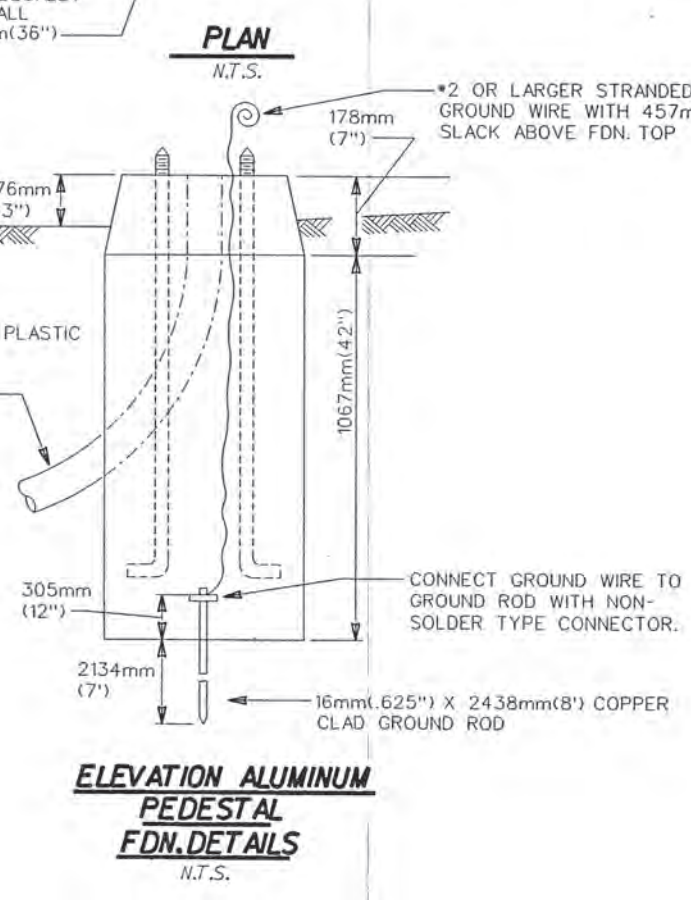
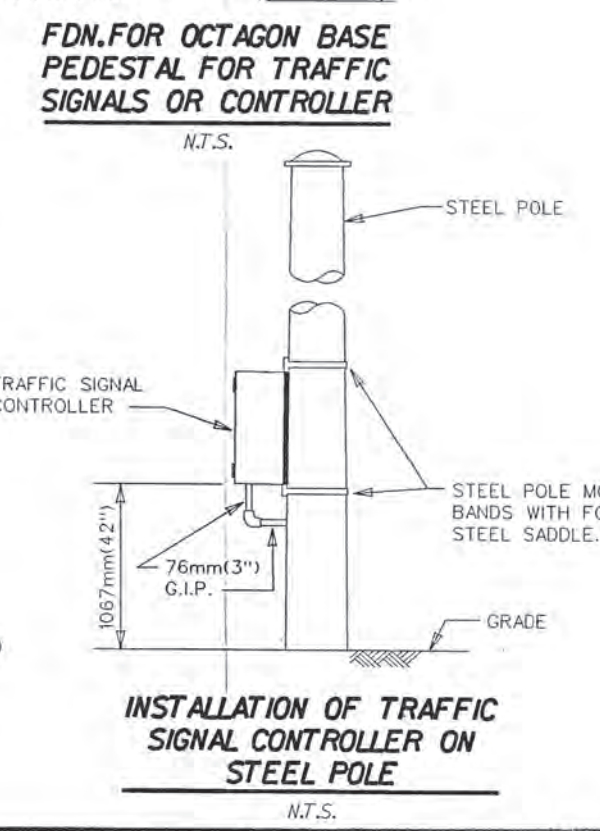
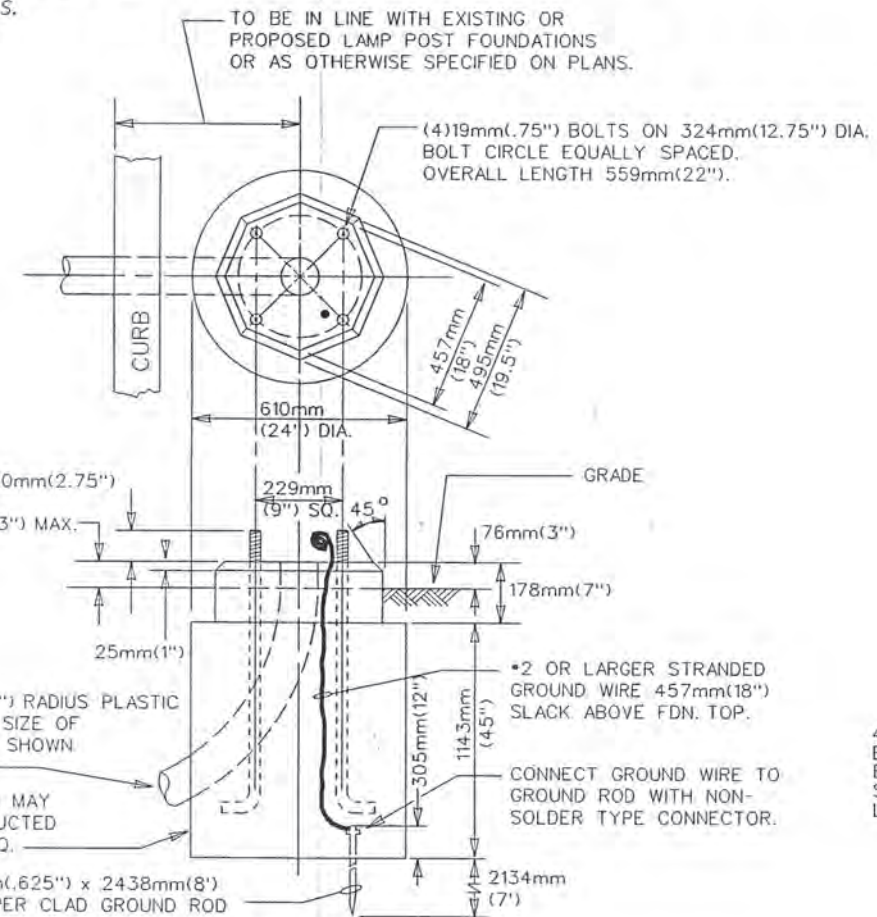


SINGLE CABINET CONTROLLER OCTAGON BASE
N.T.S.



THE INCOMING CABLE FROM THE CONTROLLER IS TO BE CONNECTED TO THE TERMINAL BLOCK IN ONE FACE OF THE SIGNAL ASSEMBLY. THE OTHER FACES IN THE ASSEMBLY ARE TO BE CONNECTED TO THIS TERMINAL BLOCK BY #14 TW WIRES THROUGH THE ASSEMBLY FRAMEWORK.

ALL FOUNDATION CAPS SHALL HAVE A SMOOTH FINISH WITH BEVELED EDGES & SHALL BE SHAPED TO ALLOW COMPLETE DRAINAGE OF WATER. ANCHOR BOLT PROJECTION ABOVE CAP SHALL BE CLEAN OF ALL CONCRETE & FULLY USABLE THEIR FULL LENGTH.



DISK FILE: S1P1.D\M17R

NO.	DATE	DESCRIPTION	CHKD. BY

JEFFERSON AVE OVER DEQUINDRE CUT
MISCELLANEOUS TRAFFIC SIGNAL DETAILS

Job No. 49717A

MANSELL ASSOCIATES INC.
ENGINEERING CONSULTANTS
33608 Grand River Farmington, MI. 48335 (248) 473-7070

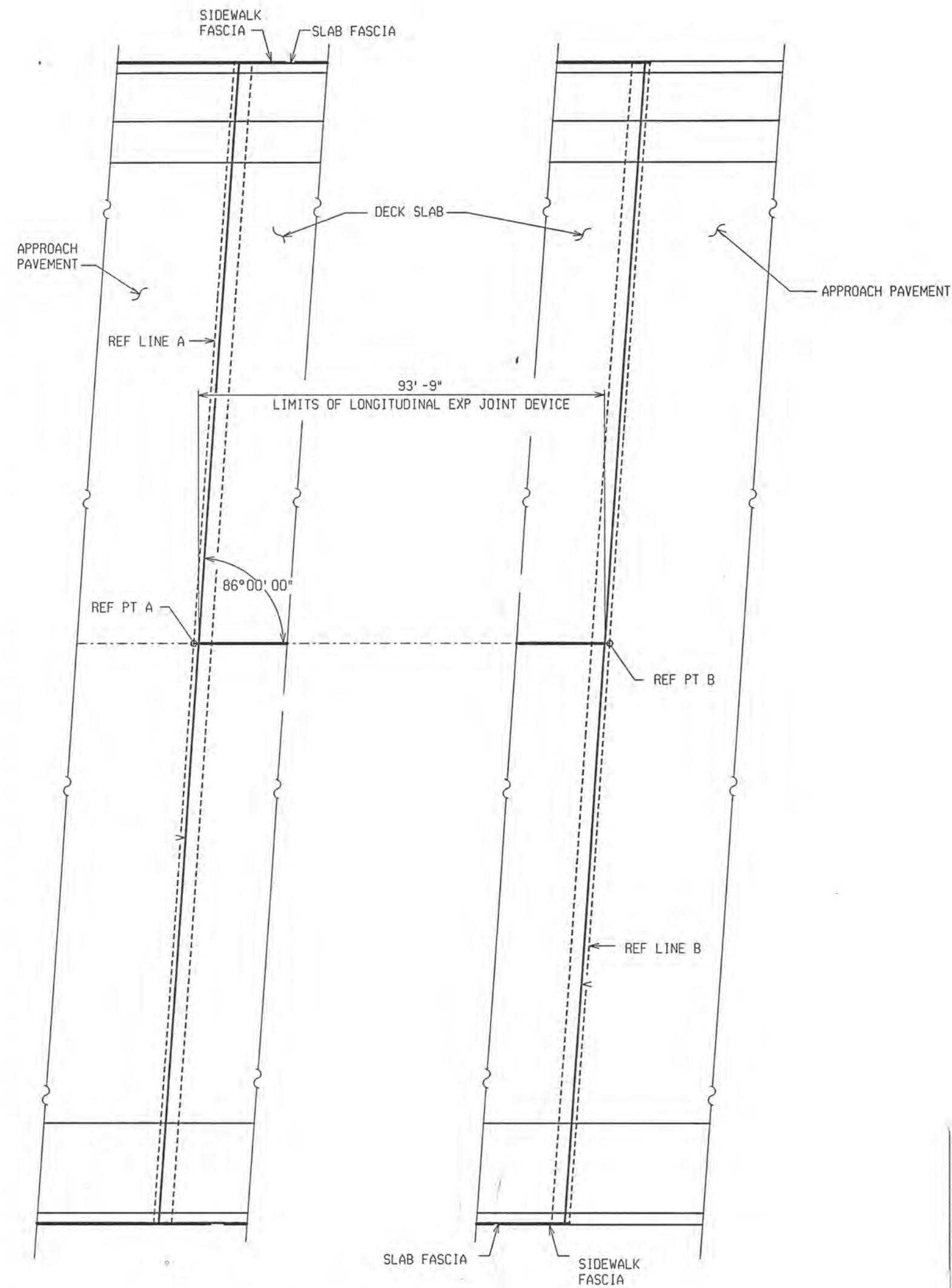
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Drwg. No. 25 OF 25
File No. M4044

PUBLIC LIGHTING DEPARTMENT
CITY OF DETROIT

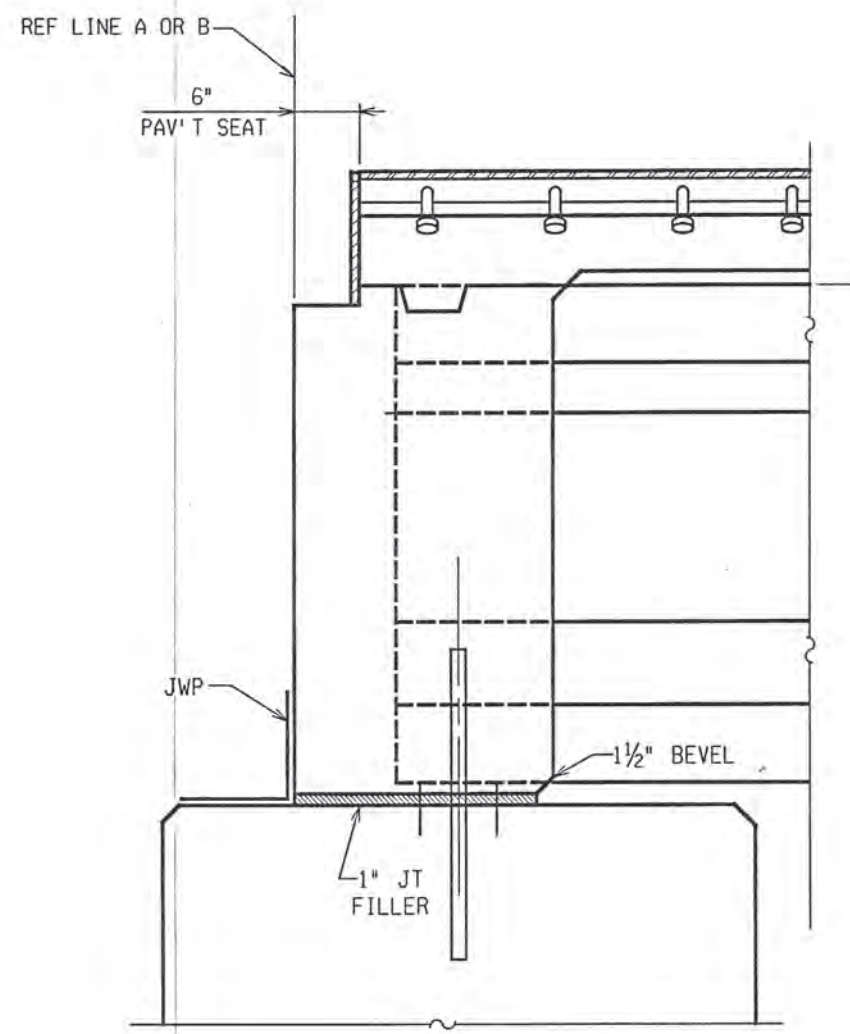
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27-1104
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02-11-05

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REVISIONS			
NO.	DESCRIPTION	DATE	BY



PLAN OF LONGITUDINAL EXPANSION JOINT



TYPICAL SECTION THRU BACKWALL

NOTES:

JOINT TYPES

THE EXPANSION JOINT DEVICE SHALL BE OF A TYPE THAT INCLUDES A CONTINUOUS NEOPRENE (OR EQUIVALENT) SEAL ACROSS THE DECK. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR HAS THE OPTION OF USING ANY OF THE DEVICES LISTED BELOW:

DEVICE	MANUFACTURER
WABO STRIP SEAL - TYPE M	WATSON-BOWMAN & ACME, INC.
WABO STRIP SEAL - TYPE A	WATSON-BOWMAN & ACME, INC.
STEELEX-SSA2	D.S. BROWN
STEELEX-SSCM	D.S. BROWN
ONFLEX 40 SS	STRUCTURAL RUBBER PRODUCTS CO.

THE MODEL OF THE JOINT TYPE SELECTED SHALL BE SUITABLE TO ACCOMMODATE THE TOTAL MOVEMENT NOTED ON THE PLANS.

COMPLETE WORKING DRAWINGS OF ALL DETAILS OF FABRICATION OF THE EXPANSION JOINT DEVICE SHALL BE SUBMITTED FOR REVIEW IN ACCORDANCE WITH STANDARD SPECIFICATION 104.02. THIS REQUIREMENT IS WAIVED FOR EXPANSION JOINT DEVICES FOR WHICH A SET OF STANDARD INSTALLATION DETAILS HAS BEEN APPROVED. STANDARD INSTALLATION DETAILS CAN BE OBTAINED FROM THE DESIGN DIVISION.

FABRICATION AND INSTALLATION

THE EXPANSION JOINT SHALL BE SHOP FABRICATED TO CONFORM TO THE CONTOUR OF THE BRIDGE DECK, BARRIERS, ETC. IT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS SUBJECT TO NOTES HEREIN AND THE APPROVAL OF THE ENGINEER.

THE TOP OF THE EXPANSION JOINT DEVICE SHALL BE SET 1/8" - 1/4" BELOW THE CONCRETE SLAB (PAVEMENT) WITH A TOLERANCE OF ± 1/8".

THE STEEL ANCHORAGE FOR STRIP SEAL GLANDS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SUBSECTION 707.03C.16 OF THE STANDARD SPECIFICATIONS.

THE AREA OF THE STEEL ANCHORAGE AND SEALING GLAND WHICH WILL BE IN CONTACT WITH A SEALANT, OR LUBRICANT-ADHESIVE SHALL BE CLEANED WITH TOLUENE OR OTHER APPROVED SOLVENT.

WHERE THE SEALING GLAND IS LOCKED INTO A STEEL ANCHORAGE, A LUBRICANT-ADHESIVE CONFORMING TO STANDARD SPECIFICATION 914.04D SHALL BE REQUIRED BETWEEN THE SEAL AND STEEL ANCHORAGE.

IN THE EVENT THAT THE CONSTRUCTION SEQUENCE REQUIRES SPLICING THE SEALING GLAND, IT SHALL BE SPLICED BY AN APPROVED METHOD (SUCH AS COLD VULCANIZATION) BY A TRAINED REPRESENTATIVE OF THE MANUFACTURER.

DETAILS AT CURBS OR BARRIERS

THE DETAILS ON THIS SHEET SHOW AN APPROVED MEANS OF TERMINATING THE EXPANSION JOINT DEVICE AT CURBS OR BARRIERS. VARIATIONS OR ALTERNATIVE SCHEMES WILL BE CONSIDERED AND MAY BE USED IF APPROVED BY THE ENGINEER.

MATERIALS

THE COST OF ALL MATERIALS AND LABOR REQUIRED FOR PROPER INSTALLATION OF THE EXPANSION JOINT AND THE TERMINAL ASSEMBLIES AT THE CURBS, SIDEWALKS, OR BARRIERS IS INCLUDED IN THE PAYMENT FOR THE EXPANSION JOINT DEVICE.

STRUCTURE NUMBER	ANGLE OF CROSSING TO NEAREST 10°	LOCATION OF JOINT	MIN. TOT. TRAVEL TRANSVERSERS TO & OF BRIDGE	REQUIRED LENGTH OF EXPANSION JOINT DEVICE
S01 OF 82-22-02	90°	LONGIT @ BRIDGE &	1'	94'

MISCELLANEOUS QUANTITIES

94 Ft Expansion Joint Device



PB PARSONS BRINCKERHOFF, INC.
535 Griswold Street
8th Building, Suite 1525
Detroit, MI 48226
313-663-5700

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

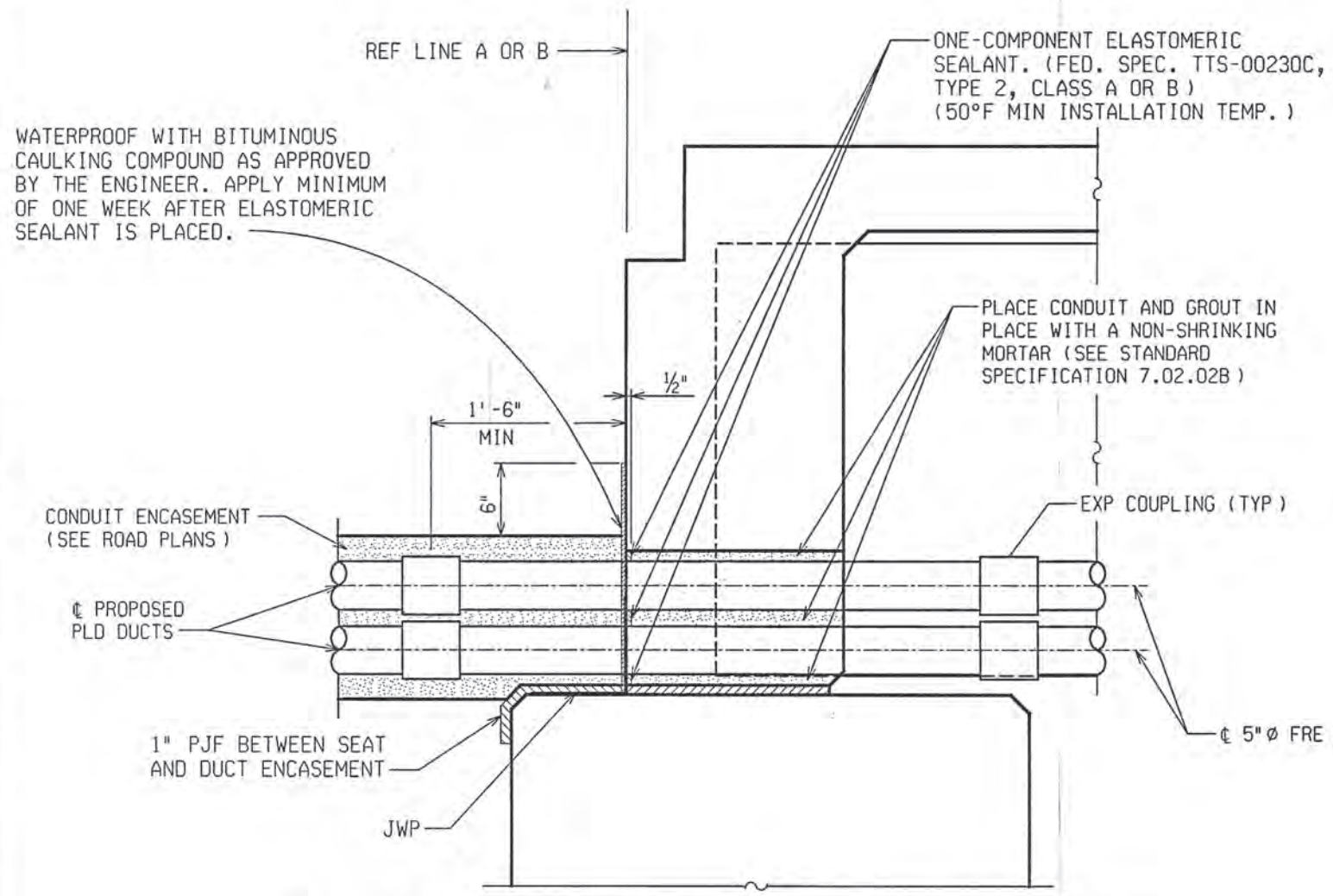
**EXPANSION JOINT DETAILS
JEFFERSON AVE OVER DEQUINDRE CUT**

DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	46 OF 80

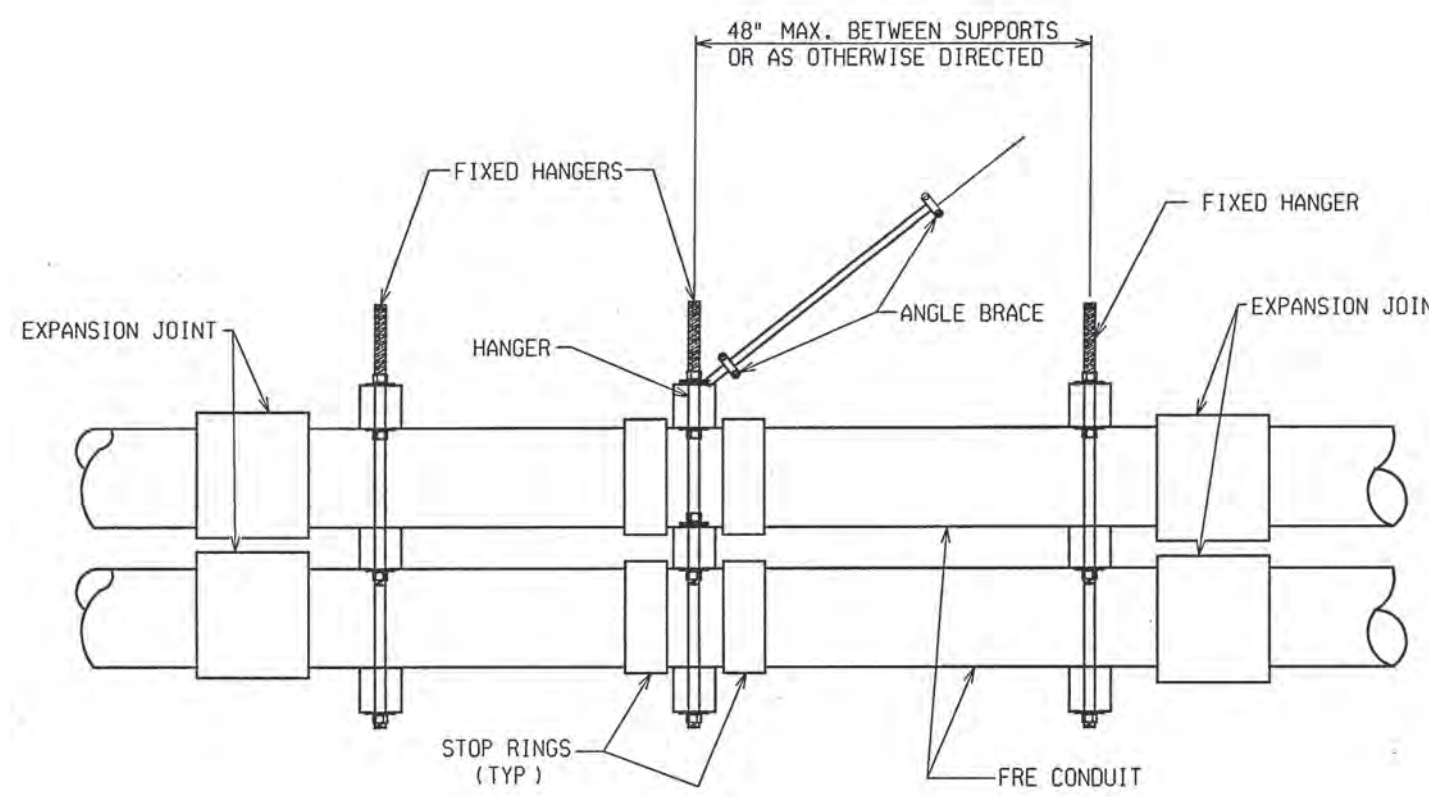
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2/10/2005
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2/10/2005
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REVISIONS			
NO.	DESCRIPTION	DATE	BY

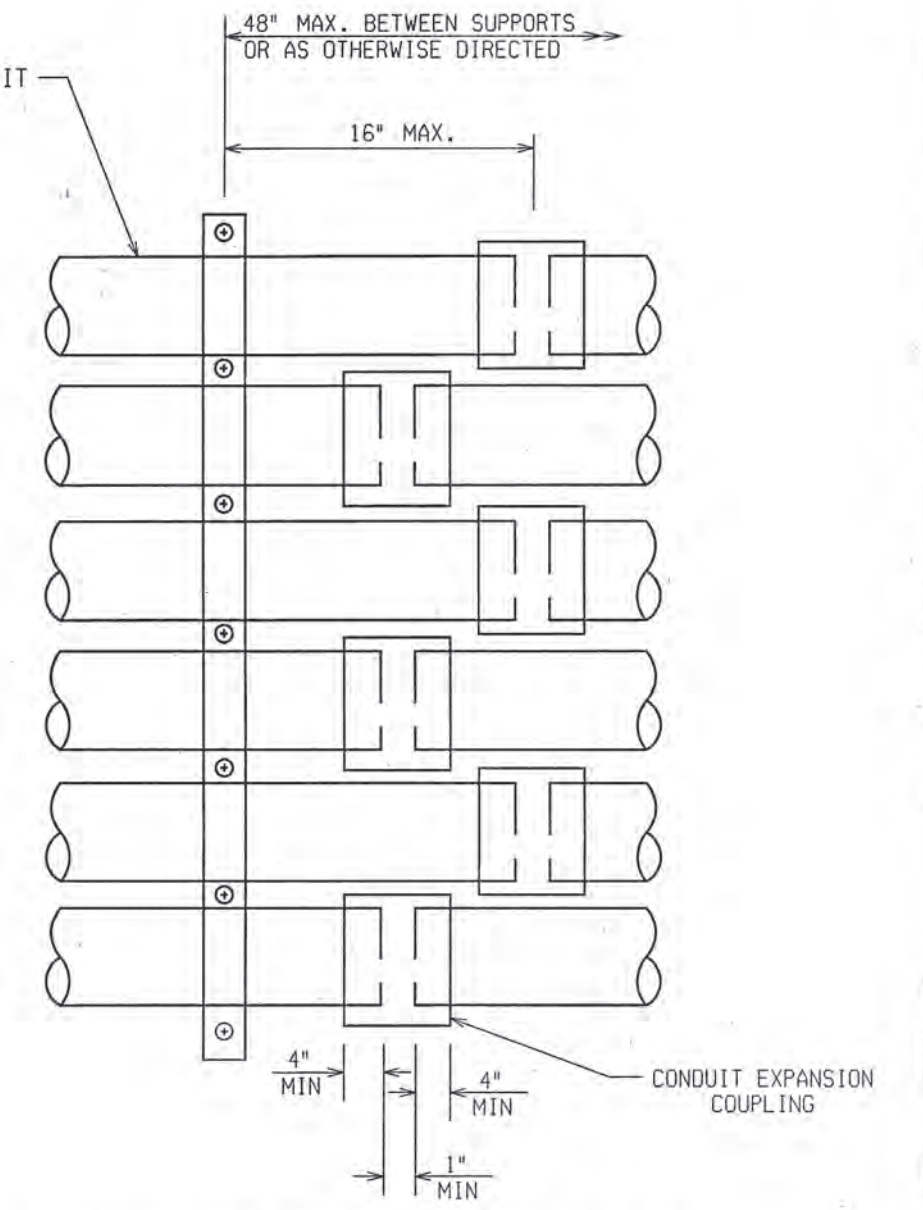


PLD CONDUIT INSTALLATION THRU BACKWALL
(ABUT A SHOWN; ABUT B SIMILAR)

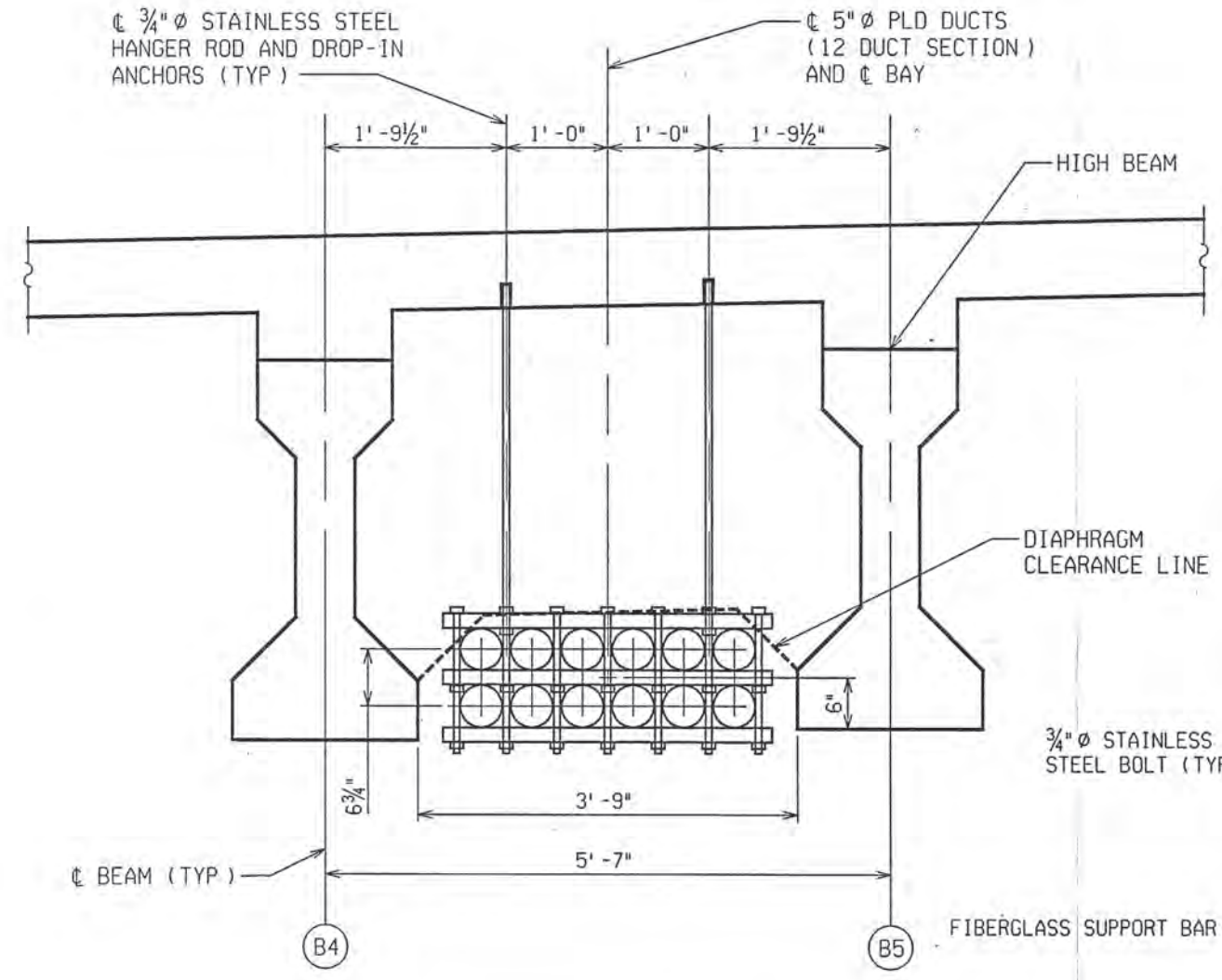


SUPPORT BETWEEN TWO EXPANSION JOINTS

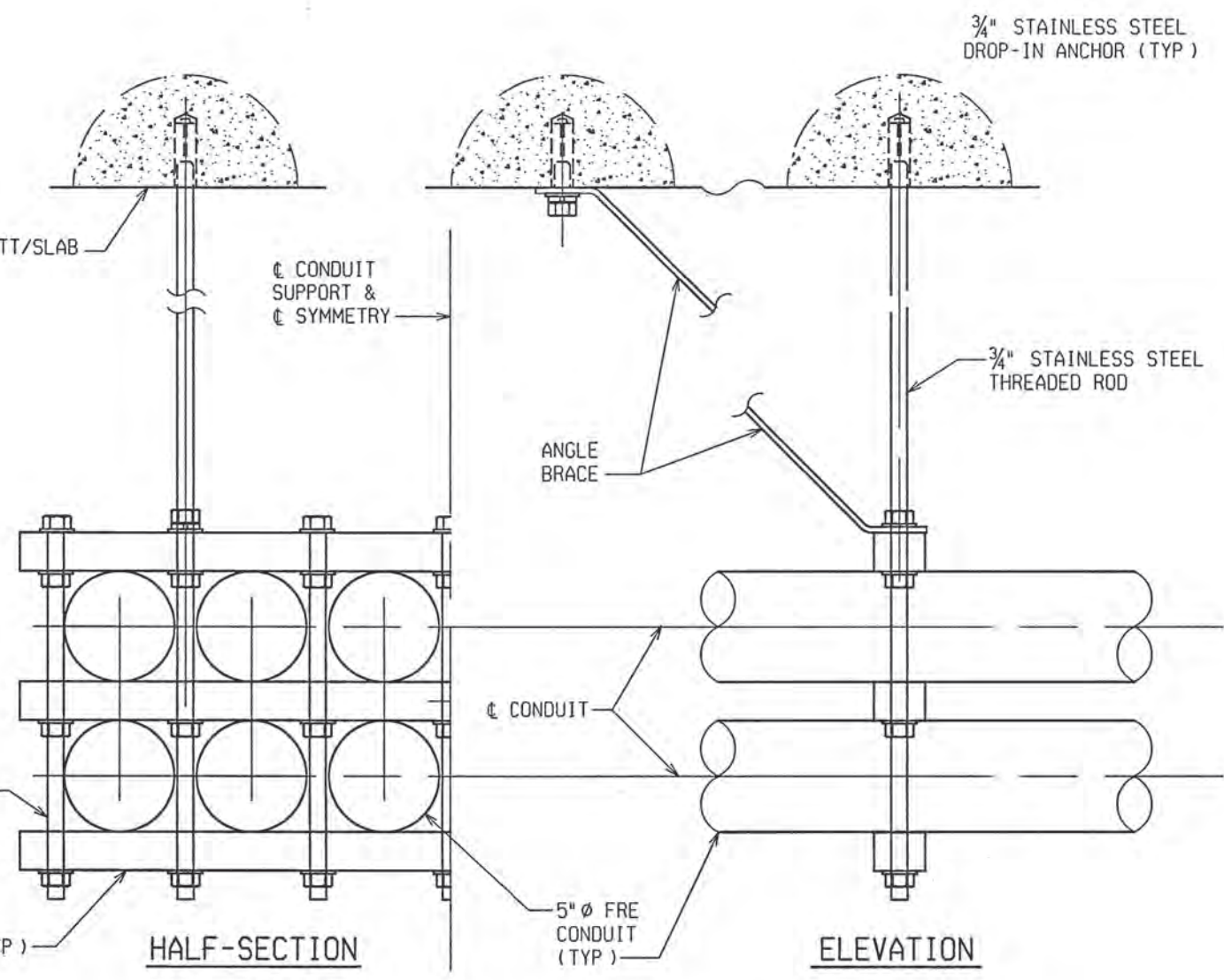
NOTE: ONE EXPANSION JOINT IS REQUIRED AT EACH END OF THE BRIDGE WITHIN 10 FEET OF THE BACKWALL. ONE SET OF STOP RINGS IS REQUIRED AT THE CENTER OF THE BRIDGE BETWEEN THE TWO EXPANSION JOINTS.



EXPANSION JOINT PLAN VIEW



TYPICAL SECTION THRU I-BEAMS
SHOWING PLD CONDUIT LOCATION



5\"/>

MISCELLANEOUS QUANTITIES	
98 Ft	Conduit, FRE - Heavy Wall on Bridge, 12 at 5 inch

NOTES:

- SEE SPECIAL PROVISION FOR PLD CONDUITS ON BRIDGE.
- A COUPLING SHALL BE PLACED ON THE ENDS OF ALL CONDUIT TERMINATIONS AND PLUGGED WITH A SUITABLE REMOVABLE PLUG. A POLYPROPYLENE PULL ROPE SHALL BE INSTALLED IN ALL CONDUITS FOR PULLING CABLE AT A LATER TIME. PULL ROPE SHALL BE INCLUDED IN THE PAY ITEM "Conduit, FRE - Heavy Wall on Bridge, 12 @ 5\".
- SMOOTH SURFACE CONDUIT ONLY IS ALLOWED ON THIS JOB.
- ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH THE MDOOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE SPECIAL PROVISION FOR PLD CONDUITS ON BRIDGE.



CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

PLD CONDUIT DETAILS				
JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	47 OF 80

DRAWN BY: DCP DATE: 2/18/2005 CHECKED BY: RJO DATE: 2/18/2005 9:17:00 AM

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UTILITIES

COMCAST CABLEVISION OF DETROIT
12775 LYNDON
DETROIT, MICHIGAN 48227
ATTN.: RUSTY KEMPER
PHONE No.: (313) 934-2600 X540

DETROIT EDISON COMPANY
2000 SECOND AVE., RM 518 SB
DETROIT, MICHIGAN 48226
ATTN.: ROBERT PETROFF
PHONE No.: (313) 235-6515

METROMEDIA FIBER NETWORK SERVICES
810 JORIE BOULEVARD, STE 110
OAK BROOK, ILLINOIS 60523
ATTN.: JOHN FISK
PHONE No.: (630) 371-0700

CITY OF DETROIT (PUBLIC LIGHTING DEPT)
9449 GRINNEL AVE
DETROIT, MICHIGAN 48213
ATTN.: STAN TOPOLEWSKI
PHONE No.: (313) 267-7228

CITY OF DETROIT (DWSO)
DETROIT DESIGN SECTION,
1420 WASHINGTON BLVD, 5TH FLOOR,
DETROIT, MICHIGAN 48226
ATTN.: DALJIT SINGH
PHONE No.: (313) 964-8889

SBC AMERITECH
31100 PLYMOUTH ROAD, RM 301
LIVONIA, MICHIGAN 48150
ATTN.: DENNIS LEWIS
PHONE No.: (734) 523-6891

MICHIGAN CONSOLIDATED GAS CO.
3200 HOBSON
DETROIT, MICHIGAN 48201
ATTN.: LEE CUMMINGS
PHONE No.: (313) 577-7327

BENCH MARK

B.M. 200 ELEV. 599.45
CHISLED X ON SOUTH BOLT OF LIGHT/PEDESTRIAN
WALK POLE BASE IN NORTHEAST QUADRANT OF
ST. AUBIN AND JEFFERSON AVE. INTERSECTION
STA. 12+51.40 OFFSET 47.10' LT

B.M. 203 ELEV. 600.84
CHISLED X TOP BOLT EAST SIDE LIGHT POLE BASE
1' NORTH OF BACK OF CURB FROM JEFFERSON AVE.
85' SOUTHWEST OF JEFFERSON AVE. BRIDGE
STA. 8+90.23 OFFSET 46.61' LT

B.M. BM 38-352 ELEV. 605.07
STANDARD CITY OF DETROIT BENCHMARK FOUND AT
THE INTERSECTION OF LAFAYETTE ST. AND
ORLEANS ST.
STA. N/A OFFSET N/A

WITNESSES

WITNESS TO CP6; P.O.B. - FOUND PK NAIL ON SURVEY &
NORTHING: 32692.897 EASTING: 32452.920
STA. 6+26.23 OFFSET 0.0' LT
S 15° E BACK OF CURB 45.0'
N 16° W BACK OF CURB 45.0'
S 64° E CATCH BASIN (642) 63.5'
N 30° E STORM MANHOLE 91.4'

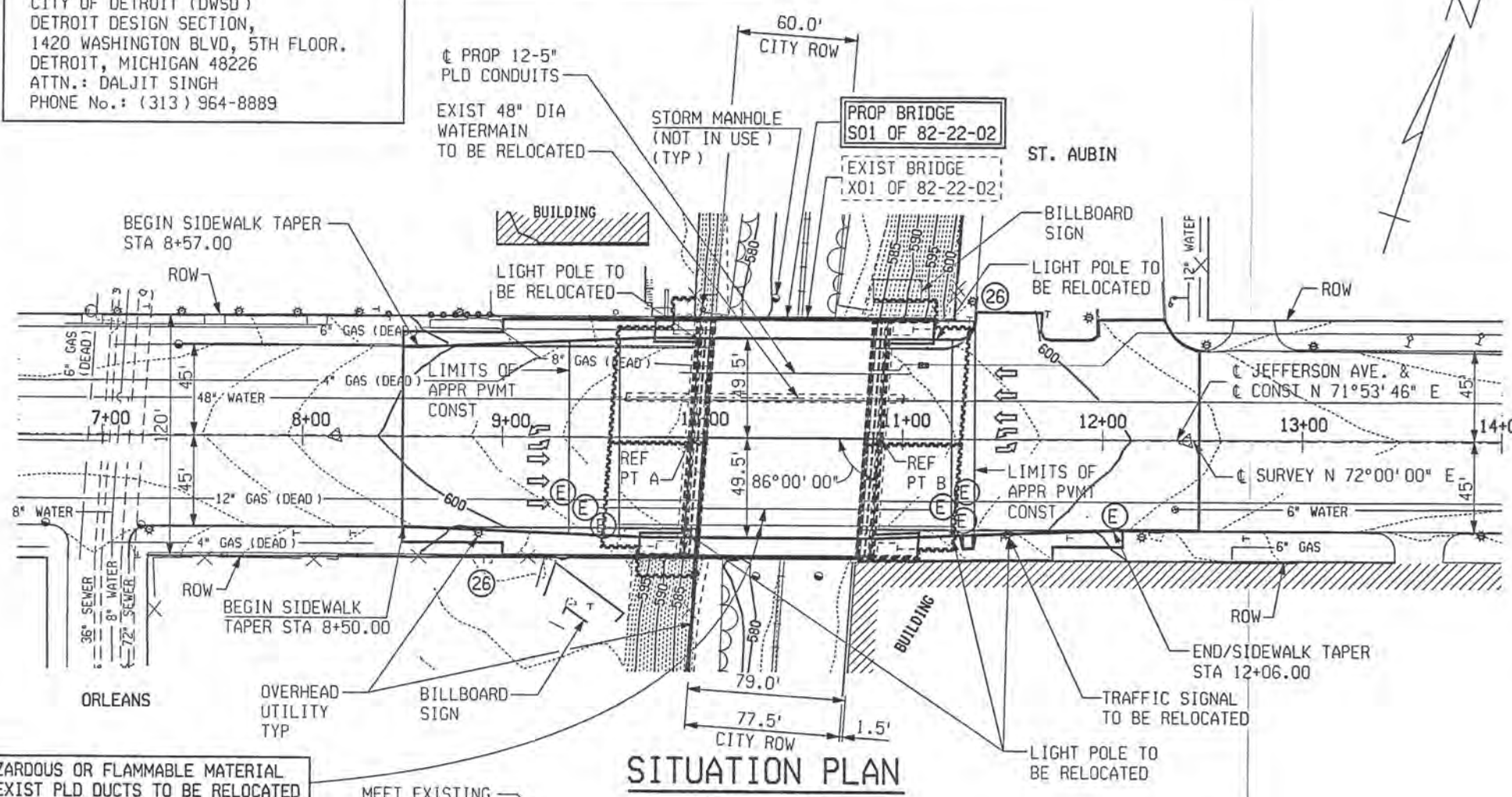
WITNESS TO CP3; P.O.T. - FOUND PK NAIL ON SURVEY &
NORTHING: 32883.228 EASTING: 33038.700
STA. 12+42.15 OFFSET 0.0' LT
S 74° W LIGHT POLE 86.4'
S 27° E METAL SIGN POST 49.0'
S 05° W METAL SIGN POST 52.9'
S 45° W LIGHT POLE 104.2'

WITNESS TO CP5; P.O.T. - FOUND PK NAIL ON SURVEY &
NORTHING: 32751.713 EASTING: 32633.939
STA. 8+16.56 OFFSET 0.0' LT
N 57° W LIGHT POLE 78.6'
N 35° E LIGHT POLE 79.1'
S 70° E LIGHT POLE 75.6'
S 07° W LIGHT POLE 52.6'

WITNESS TO CP4; P.O.E. - FOUND PK NAIL ON SURVEY &
NORTHING: 32959.619 EASTING: 33273.808
STA. 14+89.36 OFFSET 0.0'
S 17° E BACK OF CURB 45.0'
N 10° W BACK OF CURB 45.0'
S 35° W FIRE HYDRANT 79.0'
N 60° W METAL SIGN POST 76.4'

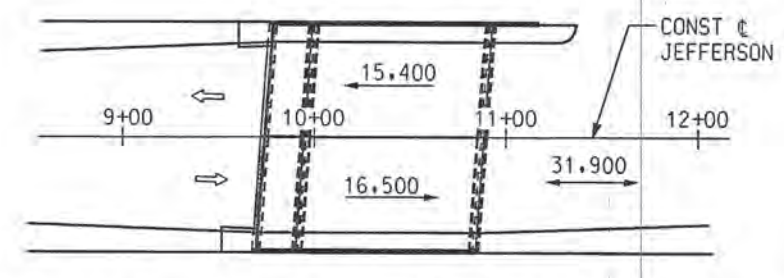
EXISTING STRUCTURE

THREE SPAN CONCRETE ENCASED STEEL BEAM
STRUCTURE MEASURING 84.0 FEET BETWEEN
REFERENCE LINES. CONCRETE ABUTMENTS
AND PIERS ON WOOD PILES. BUILT IN 1923.
90 FEET CLEAR ROADWAY WIDTH.



SITUATION PLAN
SCALE-1"=50'

2024 ESTIMATED TRAFFIC DISTRIBUTION



LEGEND
000 ADT AVERAGE DAILY TRAFFIC
→ DIRECTIONAL TRAFFIC
→ TOTAL TRAFFIC

POSTED SPEED: 35 MPH
DESIGN SPEED: 40 MPH
DESIGN LOAD: HS 25

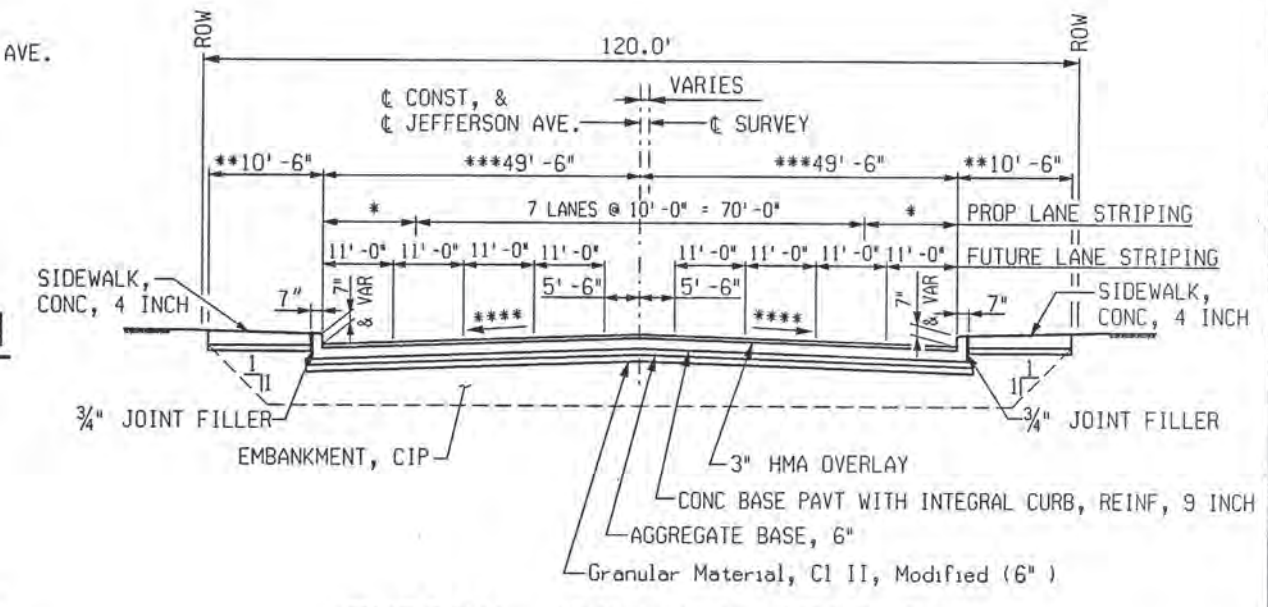
EROSION AND SEDIMENTATION CONTROL

KEY	TOTAL	ITEM
(26)	120 Ft	Erosion Control, Silt Fence

TEMPORARY STORED EXCAVATED FOUNDATION MATERIAL SHALL BE PROTECTED WITH GEOTEXTILE SILT FENCE

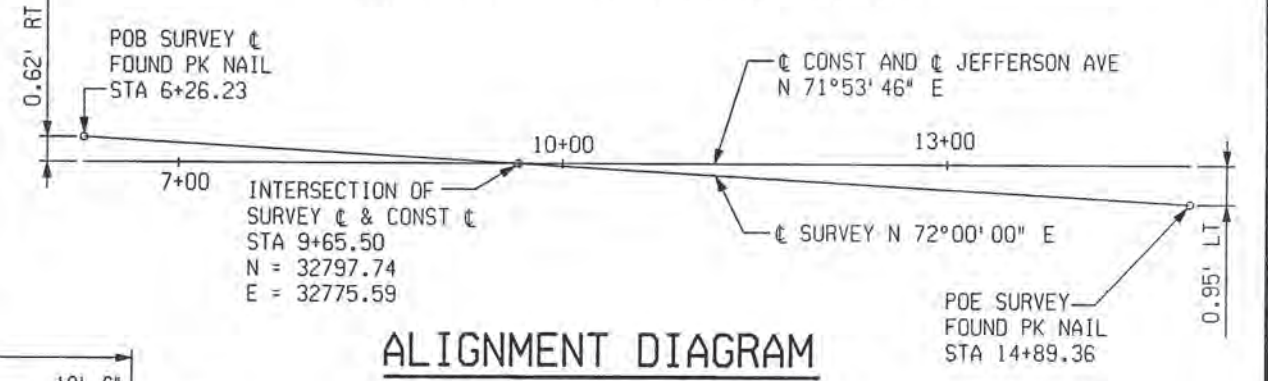
NOTE:
LANE WIDTHS SHOWN ON PROPOSED BRIDGE AND TYPICAL APPROACH SECTION ARE FOR FUTURE ROAD USE. LANES SHALL BE STRIPED TO MATCH EXISTING FOR THE IMMEDIATE USE OF THE STRUCTURE. (APPLIES TO APPROACH ROADWAY ALSO.)

TYPICAL APPROACH SECTION

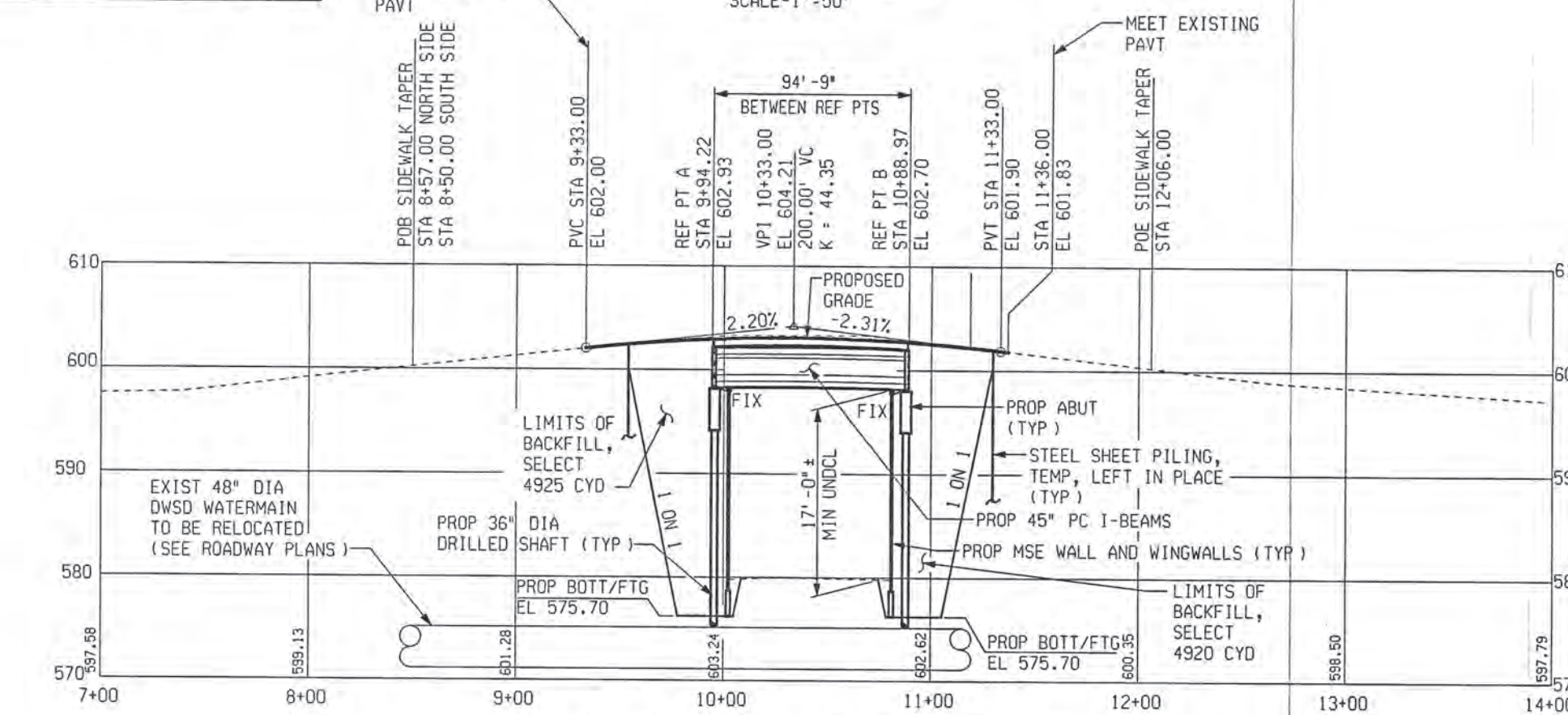


* 10'-0" AND VARIES TO 14'-6" ALONG TAPER
** 10'-6" AND VARIES TO 15'-0" ALONG TAPER
*** 49'-6" AND VARIES TO 45'-0" ALONG TAPER
**** 2% AND VARIES TO PARABOLIC CROSS-SECTION

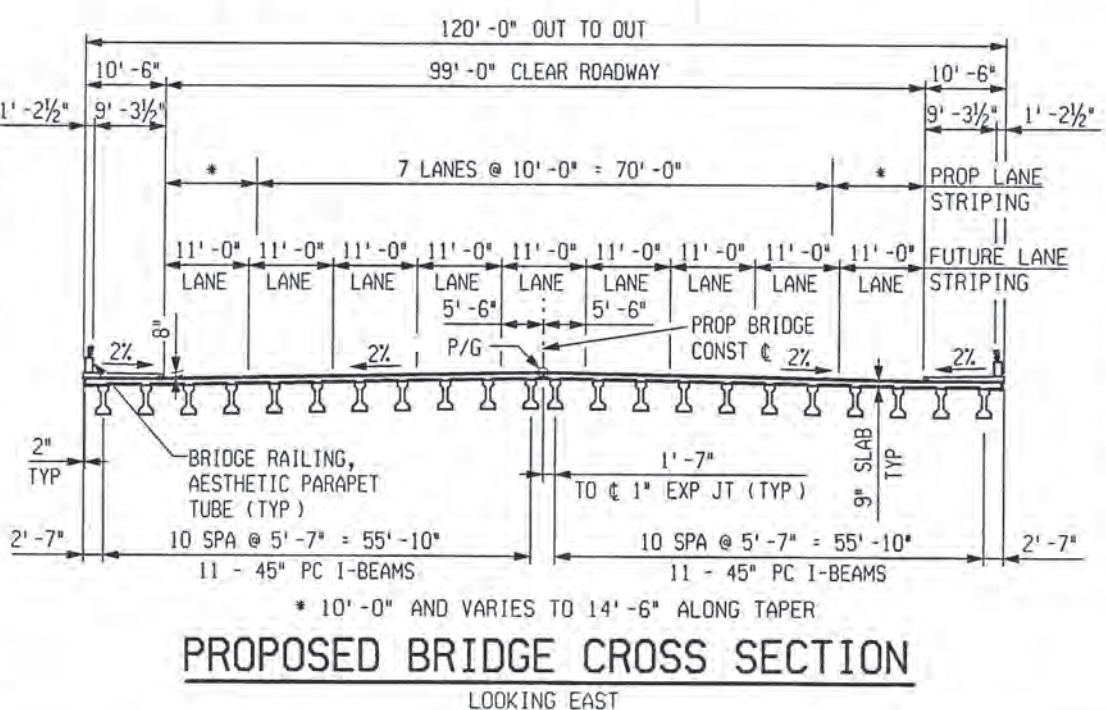
ALIGNMENT DIAGRAM



NOTES:
THE WORK COVERED BY THESE PLANS INCLUDES MAINTAINING TRAFFIC, REMOVAL OF EXISTING BRIDGE, CONSTRUCTION OF THE PROPOSED BRIDGE AND APPROACH WORK.
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.
TWO LANES OF JEFFERSON AVENUE TRAFFIC, IN EACH DIRECTION, IS TO BE MAINTAINED OVER THE BRIDGE BY PART-WIDTH CONSTRUCTION
PLAN ELEVATIONS REFER TO CITY OF DETROIT DATUM.
THE GROUND ADJACENT TO THE TRACKS AND STRUCTURE SHALL BE GRADED BY THE CONTRACTOR TO PROVIDE DRAINAGE, AFTER THE REMOVAL OF THE TWO PIERS.



PROFILE ALONG JEFFERSON AVE.
VERT. SCALE-1"=10'
HOR. SCALE-1"=50'



PROPOSED BRIDGE CROSS SECTION
LOOKING EAST

GENERAL PLAN OF SITE
JEFFERSON AVE OVER DEQUINDRE CUT

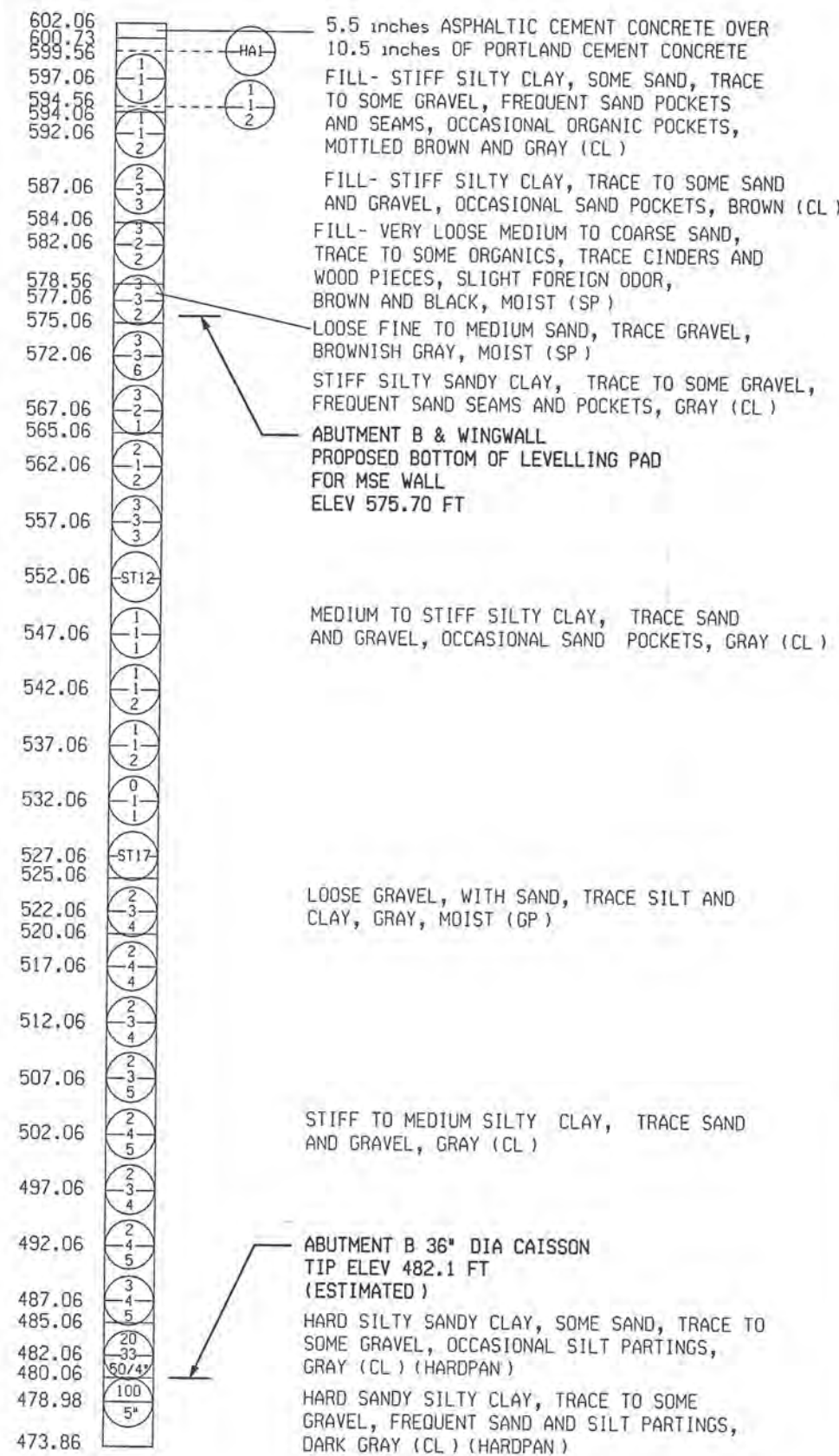
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	48 OF 80



CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

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CHECKED BY: RJO DATE: 2/10/2005

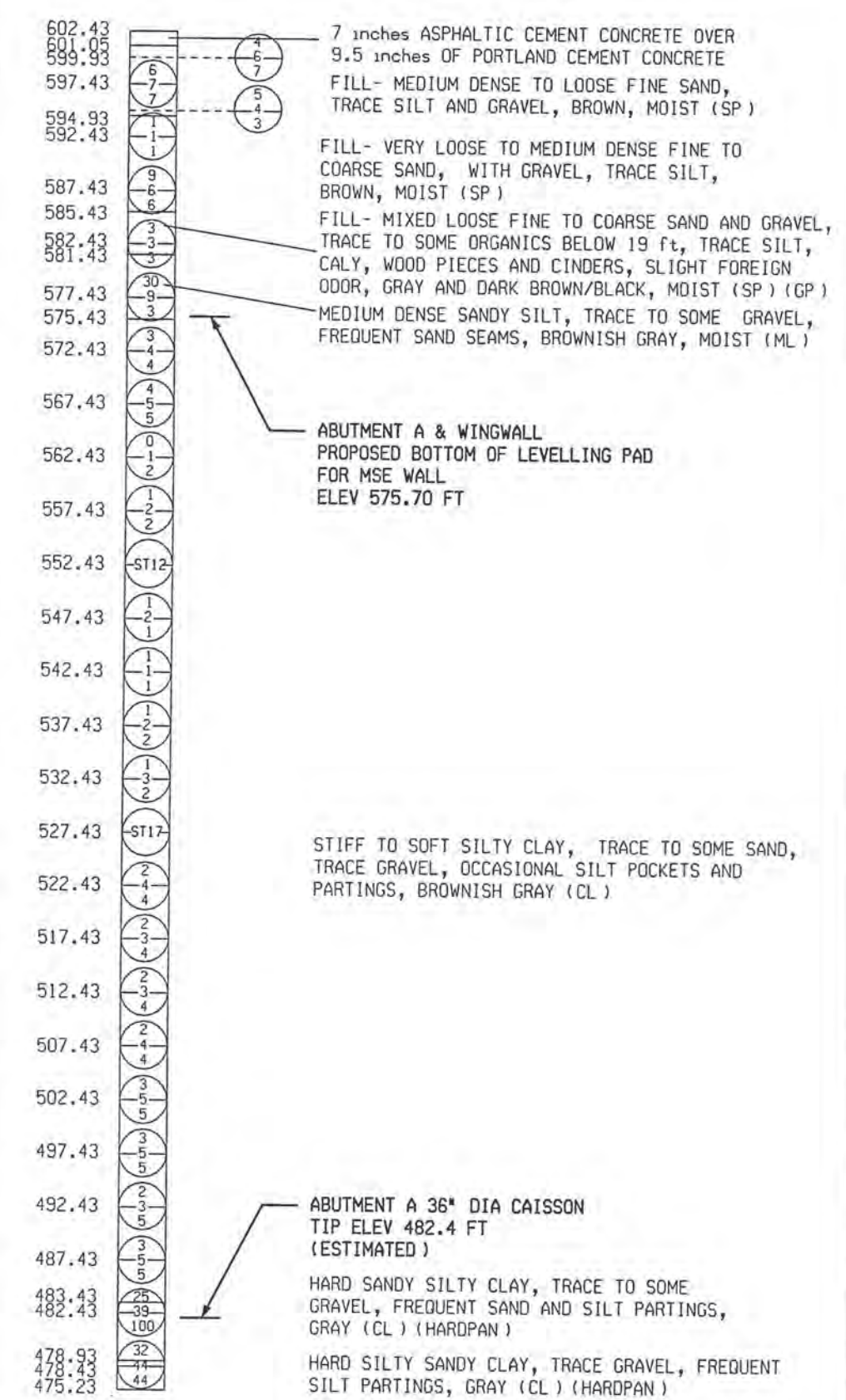
TEST HOLE NO. B-1
 GROUND SURFACE EL : 602.06
 N: 32798.1728
 E: 32908.1338



END OF BORING 128.2 ft (ROCK ENCOUNTERED)

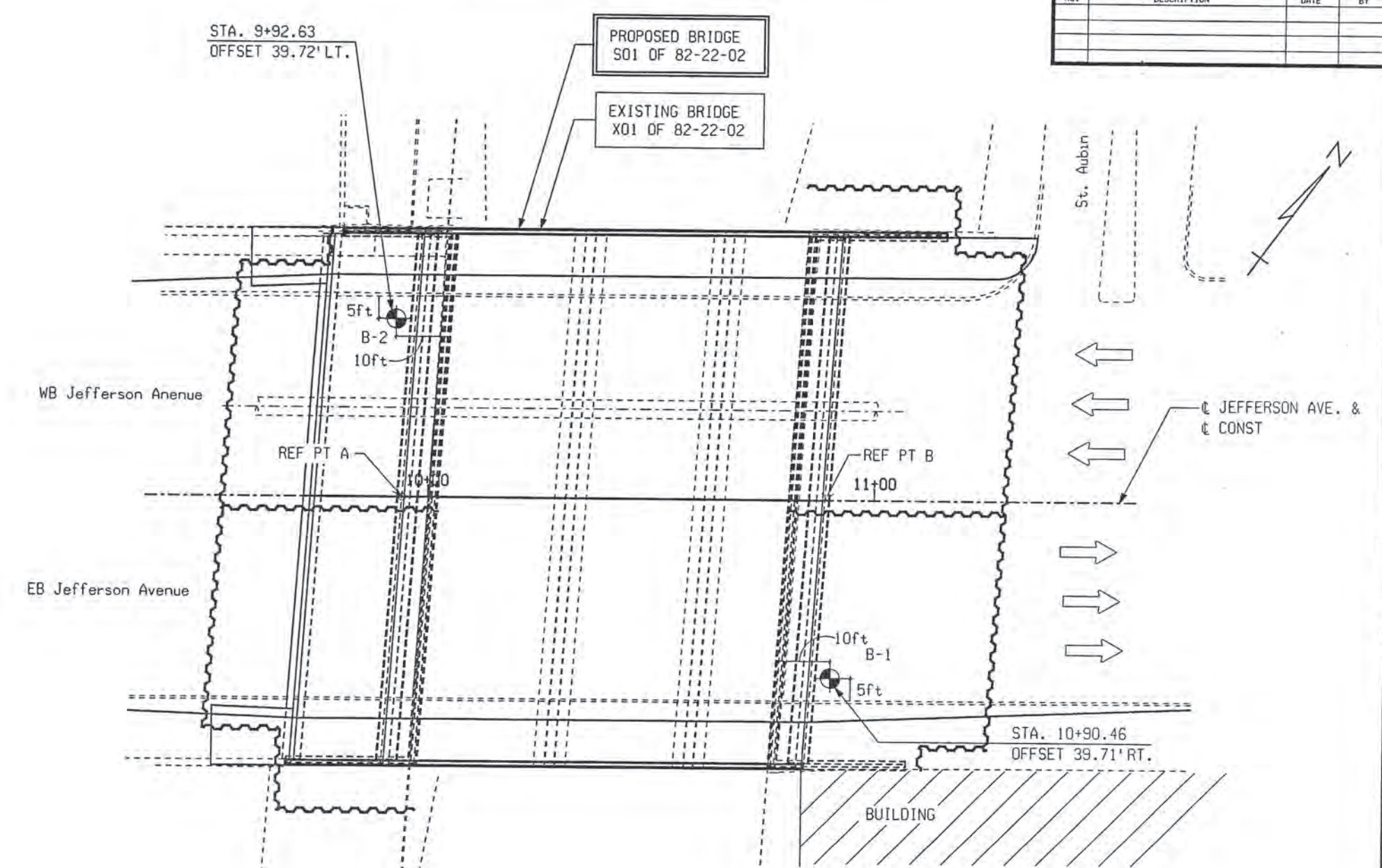
BORING DATE: 5-14-03 TO 5-16-03
 NO GROUNDWATER ENCOUNTERED DURING DRILLING
 NO GROUNDWATER REPORTED UPON COMPLETION OF DRILLING
 DUE TO WASH ROTARY METHOD OF DRILLING

TEST HOLE NO. B-2
 GROUND SURFACE EL : 602.43
 N: 32844.7473
 E: 32790.4664



END OF BORING 127.2 ft (ROCK ENCOUNTERED)

BORING DATE: 4-30-03 TO 5-02-03
 NO GROUNDWATER ENCOUNTERED DURING DRILLING
 NO GROUNDWATER REPORTED UPON COMPLETION OF DRILLING
 DUE TO WASH ROTARY METHOD OF DRILLING

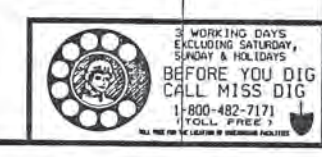
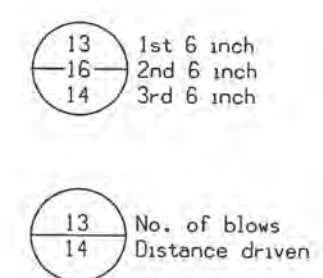


LEGEND

SOIL BORING LOCATION

GENERAL NOTES

NUMBERS IN CIRCLES DENOTE NUMBER OF BLOWS REQUIRED TO DRIVE A 2 inch OD (1.5 inch ID) SPLIT SPOON SAMPLER 3 SUCCESSIVE 6 inch INCREMENTS USING A 140 lb HAMMER FALLING 30 inches.
 (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.
 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 MAY FLUCTUATE AND MAY BE DIFFERENT AT THE TIME OF CONSTRUCTION.



PARSONS BRINCKERHOFF, INC.
 335 Griswold Street
 BUN Building, Suite 1525
 Detroit, MI 48226
 313-663-5760

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION

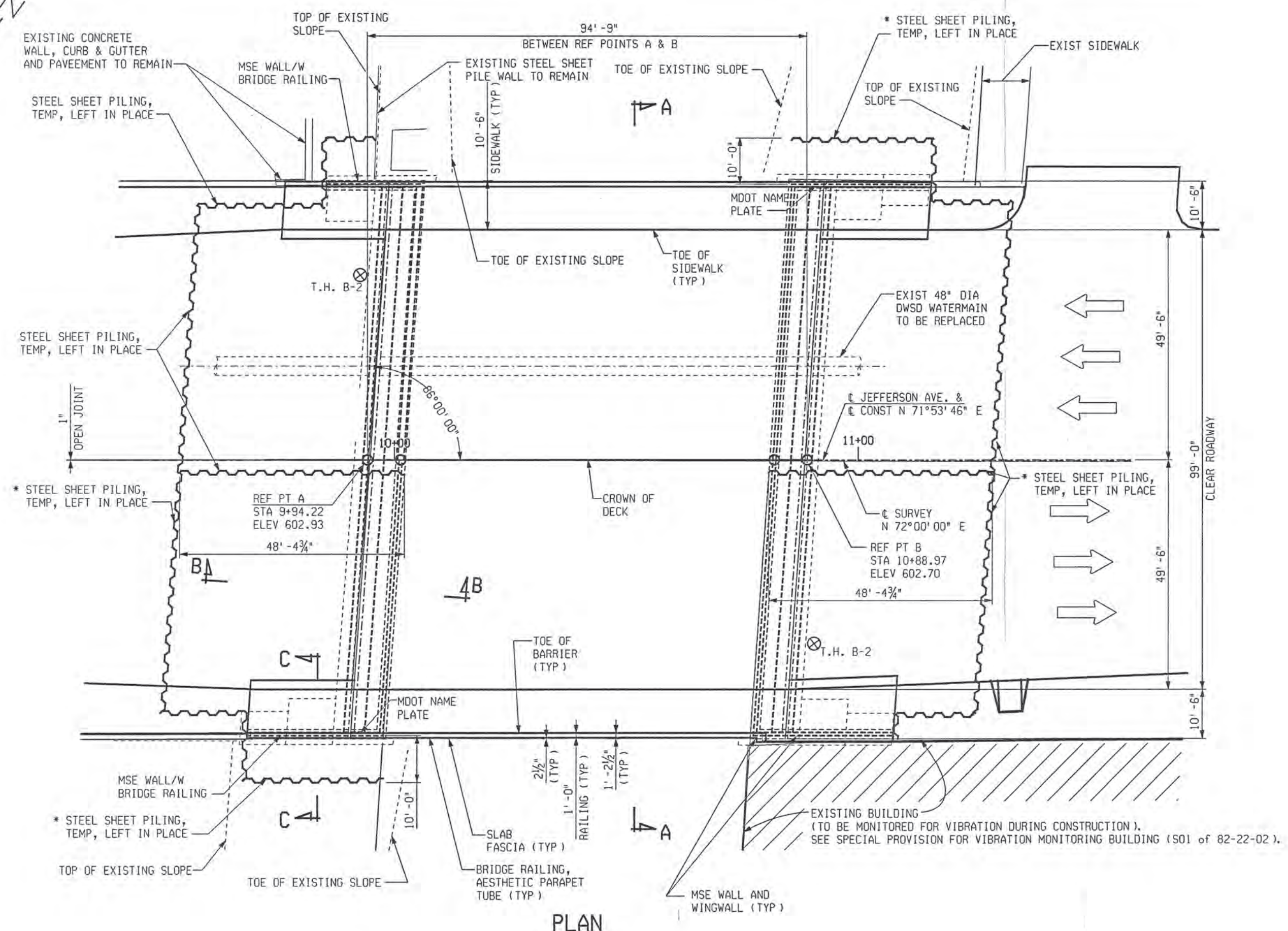
LOG OF BORINGS
 JEFFERSON AVE OVER DEQUINDRE CUT

DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	49 OF 80

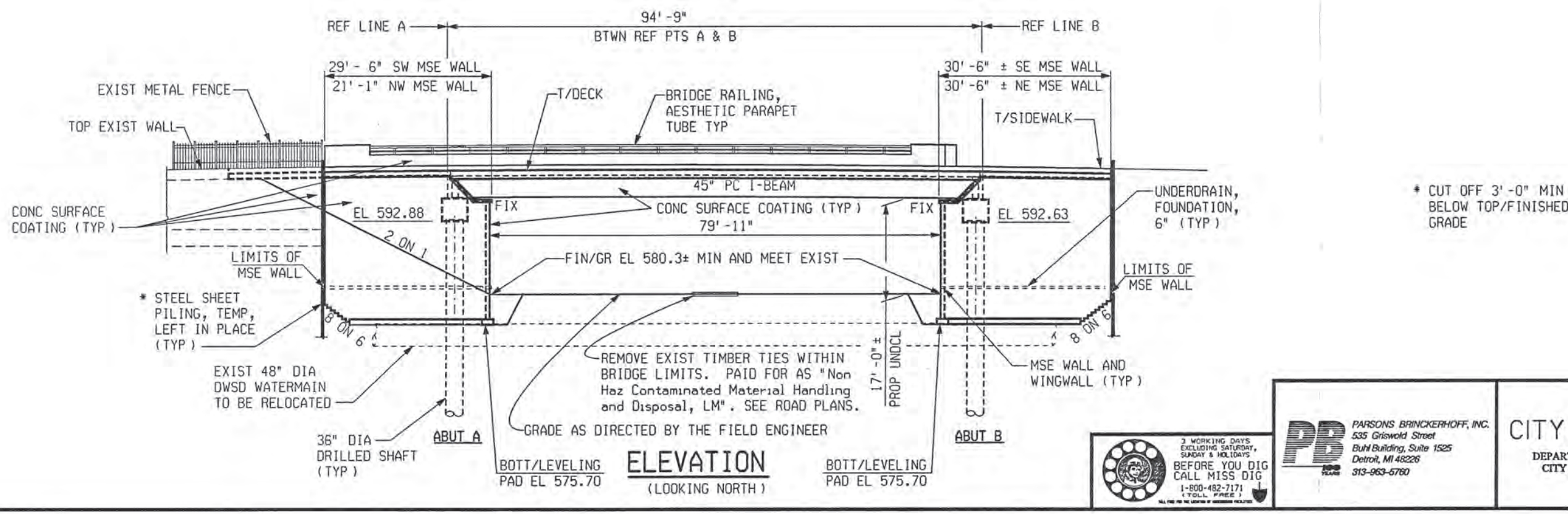
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REVISIONS			
NO.	DESCRIPTION	DATE	BY



PLAN



ELEVATION
(LOOKING NORTH)

MISCELLANEOUS QUANTITIES		
1	LS	Structures, Rem (S01 of 82-22-02)
440	Cyd	Backfill, Structure, CIP
9,900	Cyd	Backfill, Select
200	Cyd	Embankment, CIP
11,000	Cyd	Excavation, Fdn
12,000	SFt	Steel Sheet Piling, Temp, Left in Place
1	LS	Conc Surface Coating (S01 of 82-22-02)
380	Ft	Underdrain, Fdn, 6 inch
727	Cyd	Conc Quality Assurance, Structure
727	Dir	Conc Quality Initiative
1	LS	Vibration Monitoring Building (S01 of 82-22-02)

NOTES:

THE DESIGN OF THIS STRUCTURE IS BASED ON CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES HS25 AND ALTERNATE MILITARY LOADING. LIVE LOAD PLUS IMPACT DEFLECTION DOES NOT EXCEED 1/800 OF SPAN LENGTH. THE LOAD FACTOR METHOD OF DESIGN WAS USED FOR THIS STRUCTURE.

THE CONTRACTOR WILL BE FINISHED WITH PLANS OF THE EXISTING STRUCTURE UPON REQUEST.

MAXIMUM ALLOWABLE SOIL BEARING PRESSURE FOR MSE WALL IS 3,000 PSF.

PLACEMENT OF TEMPORARY BARRIER SHALL BE ACCORDING TO STANDARD PLAN R-126-SERIES OR AS APPROVED BY THE ENGINEER.

CONC SURFACE COATING SHALL BE APPLIED TO THE EXPOSED PORTIONS OF THE EXISTING BRIDGE RETAINING WALLS TO REMAIN IN PLACE, MSE WALLS AND COPING, BRIDGE RAILING, DECK FASCIA CONTINUING UNDER THE DECK TO THE BEAM AND THE BEAM FASCIA. THE ESTIMATED AREA OF CONC SURFACE COATING IS 10,000 SQUARE FEET.

PB PARSONS BRINCKERHOFF, INC.
535 Griswold Street
Buhl Building, Suite 1525
Detroit, MI 48226
313-963-6700

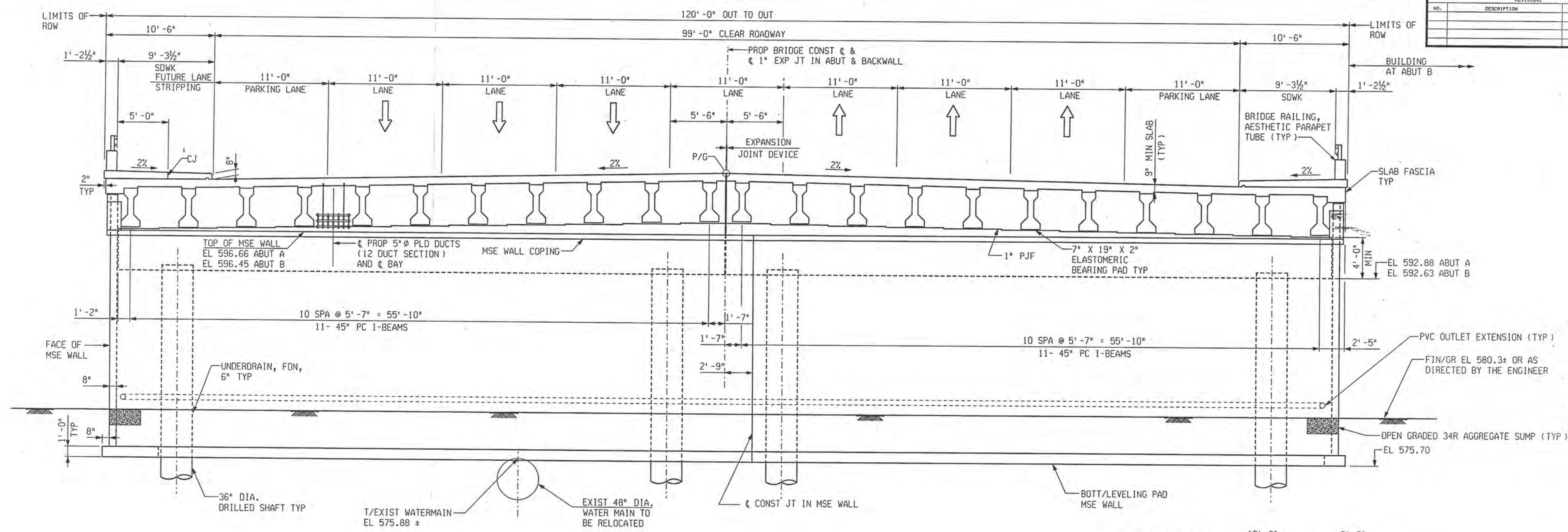
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

GENERAL PLAN OF STRUCTURE JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	50 OF 80

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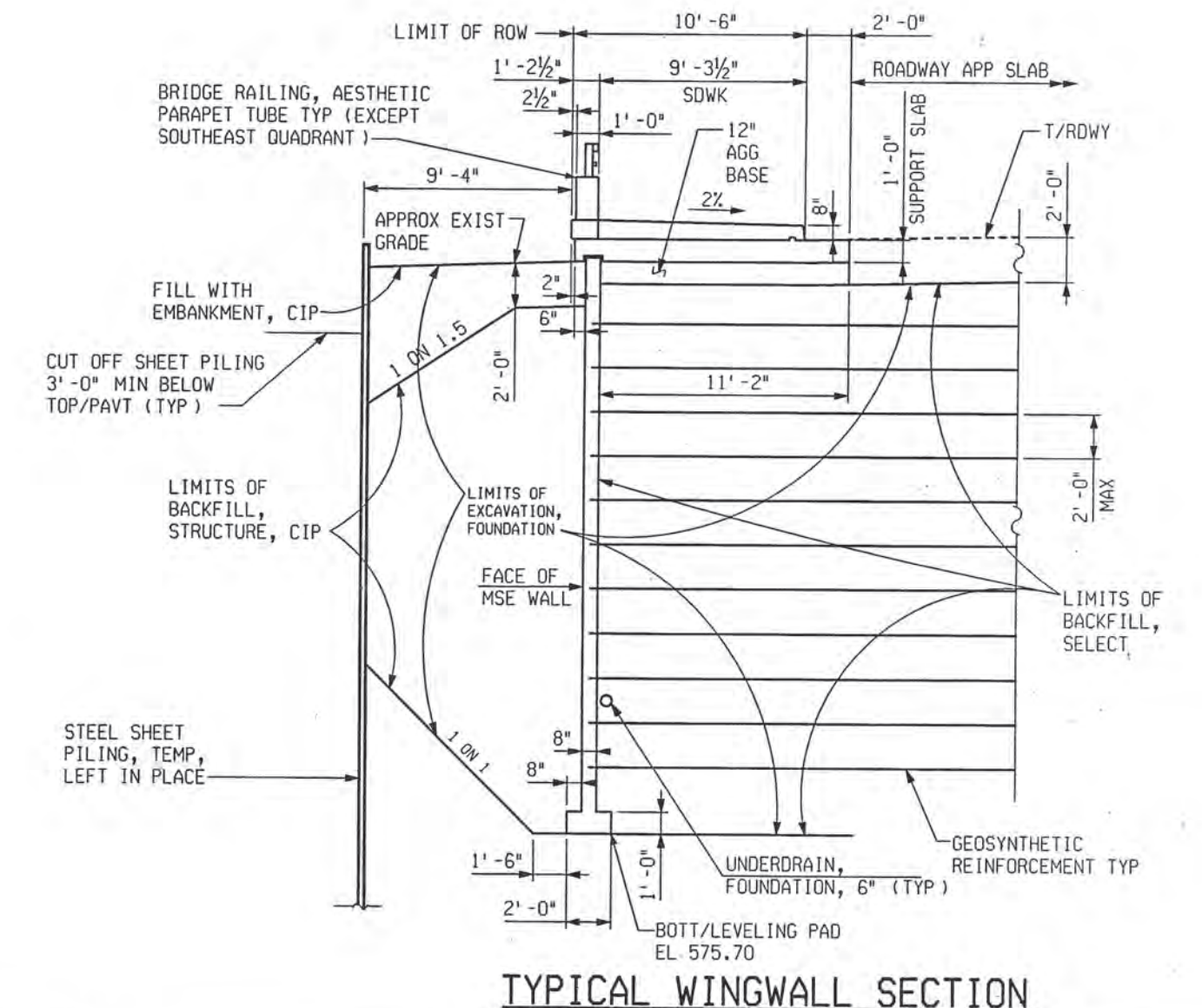
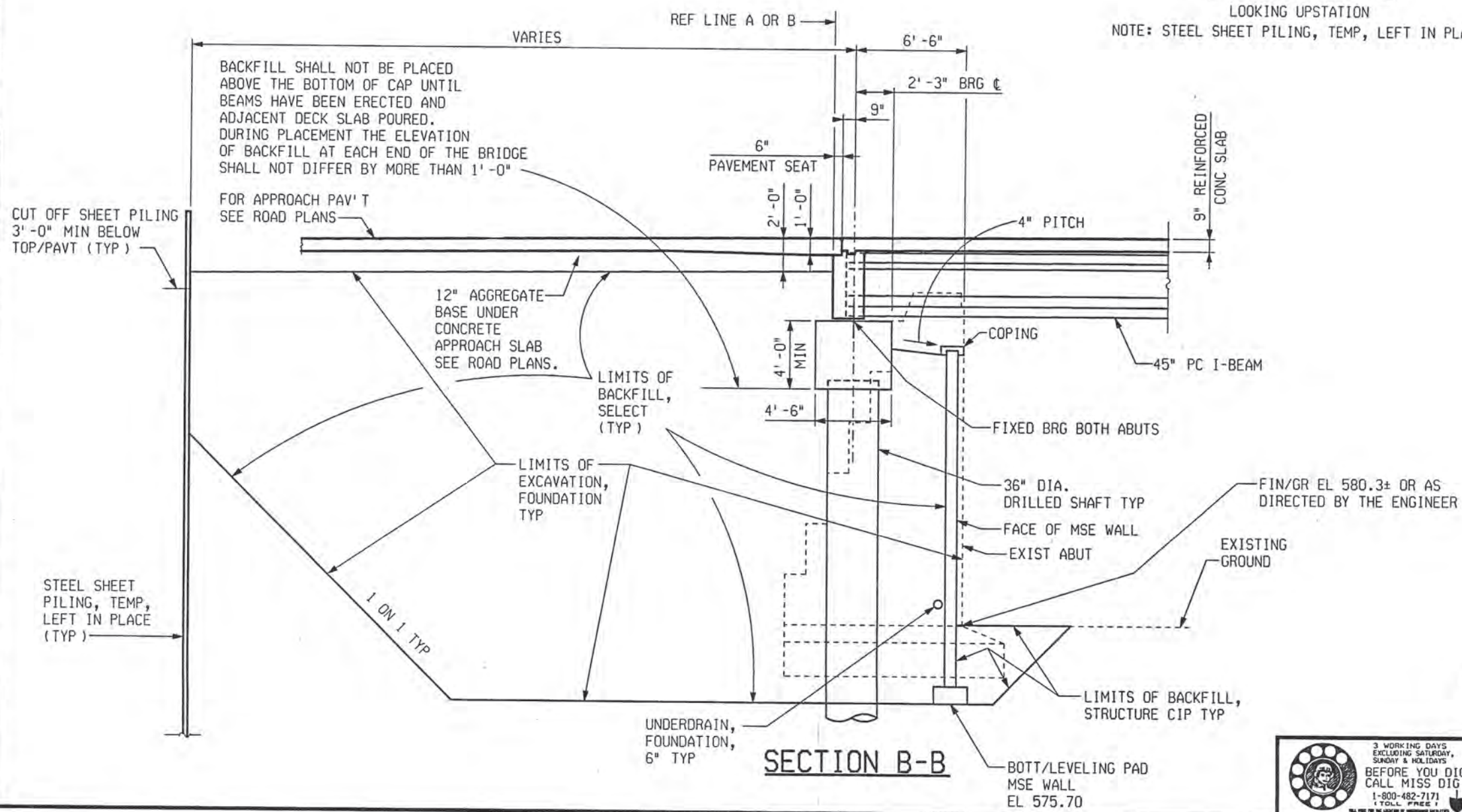
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REVISIONS			
NO.	DESCRIPTION	DATE	BY



SECTION A-A
LOOKING UPSTATION

NOTE: STEEL SHEET PILING, TEMP, LEFT IN PLACE NOT SHOWN.



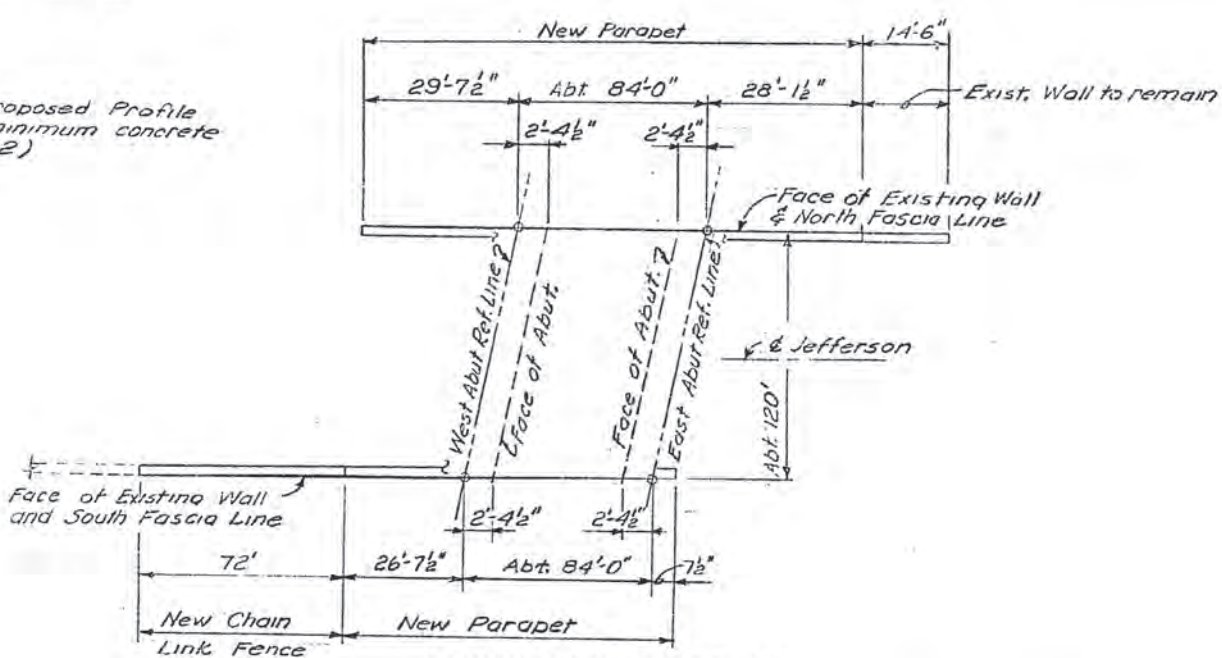
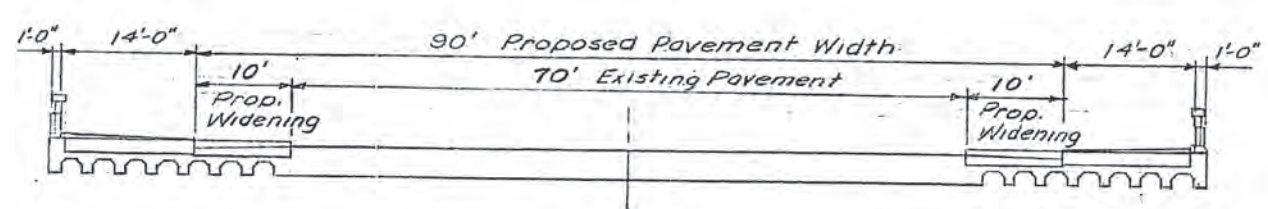
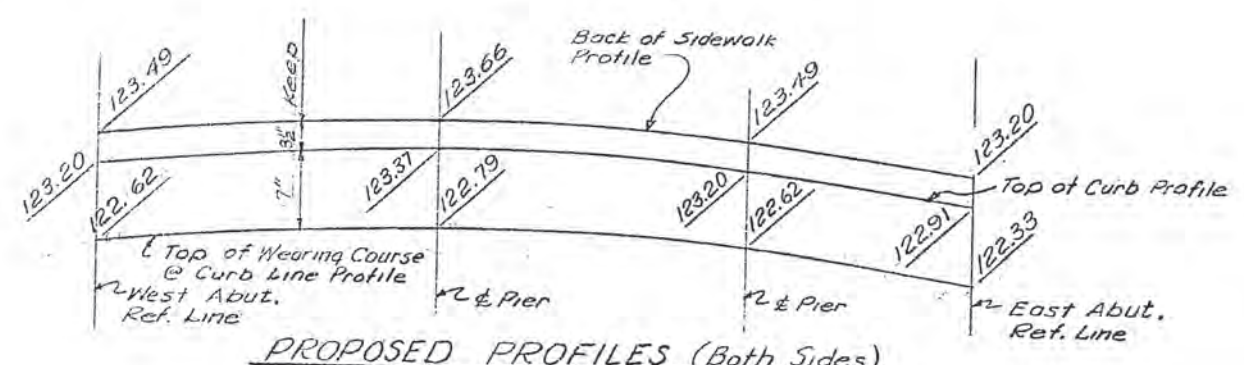
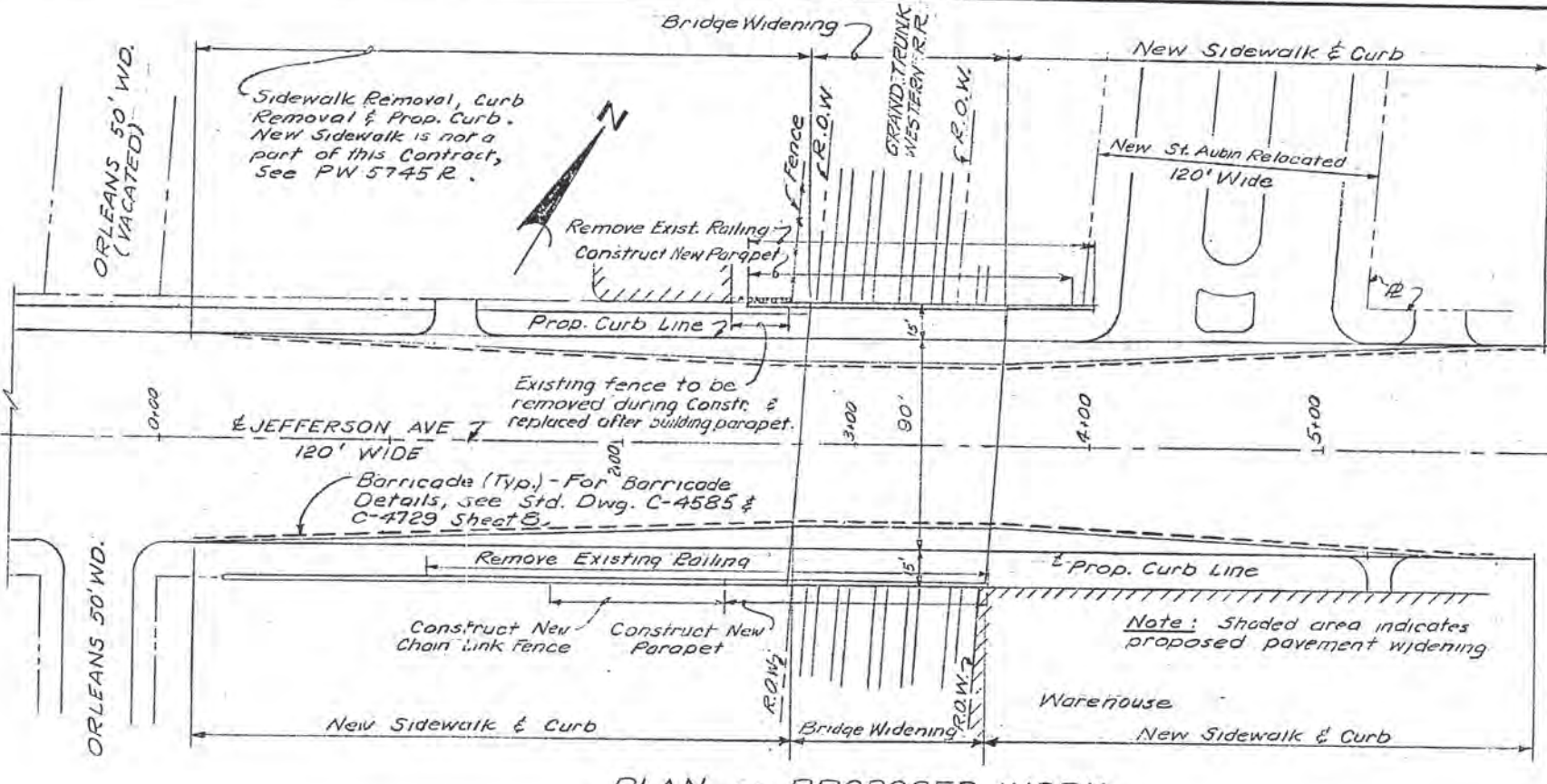
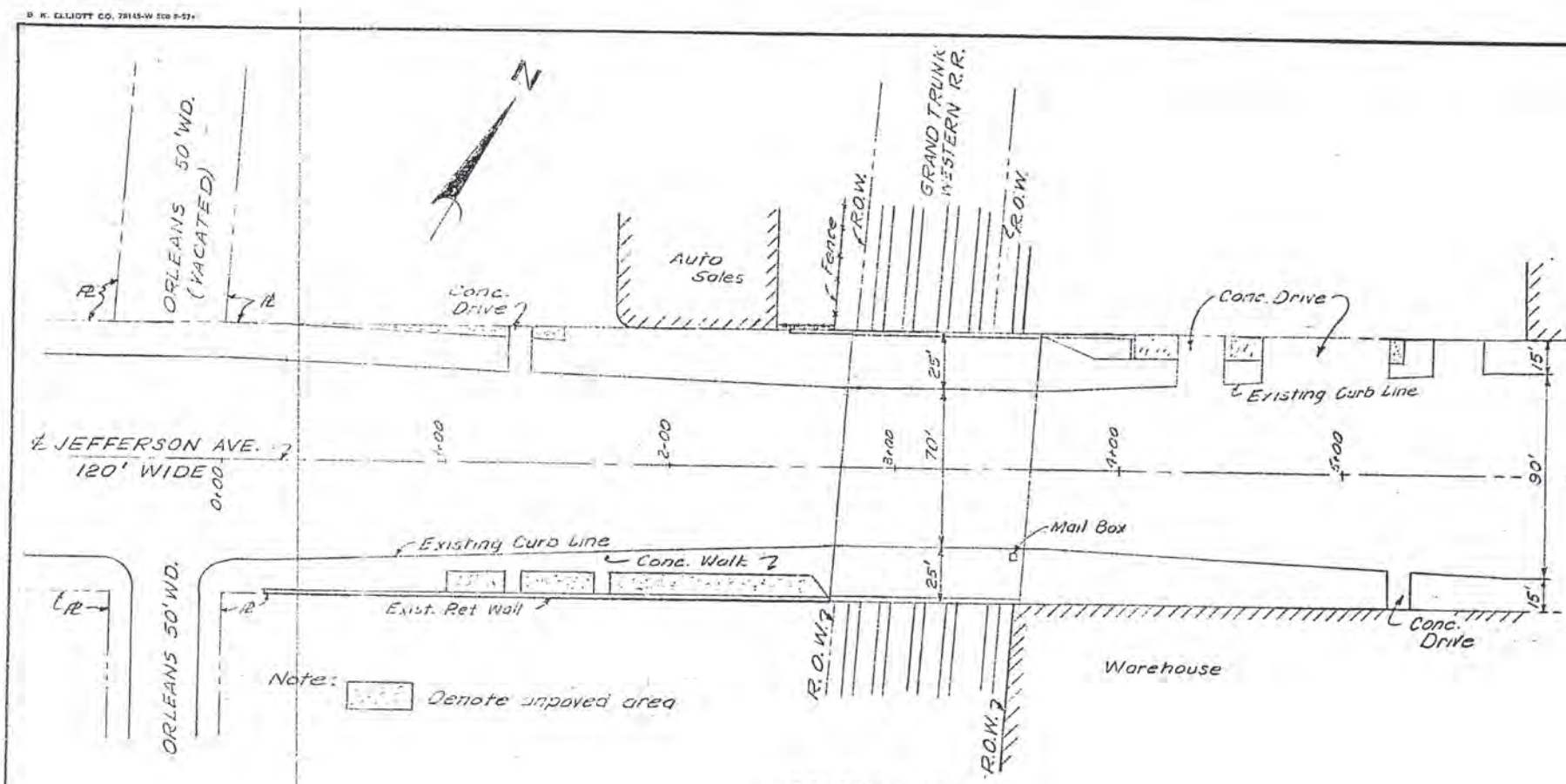
TYPICAL WINGWALL SECTION

PARSONS BRINCKERHOFF, INC. 535 Griswold Street 5th Floor, Suite 1525 Detroit, MI 48226 313-463-5700	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION		GENERAL PLAN OF STRUCTURE JEFFERSON AVE OVER DEQUINDRE CUT		
	DATE 02-11-05	STRUCTURE NO. S01 OF 82-22-02	CONT. SEC. BRT 82022	JOB NO. 49717A	SHEET 51 OF 80

9/16/37 AM
 2/18/2005
 CHECKED BY: RJO DATE: 2/18/2005
 DRAWN BY: DCP DATE: 2/18/2005
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REVISIONS			
NO.	DESCRIPTION	DATE	BY



Note: The Engineer shall field-adjust Proposed Profile elevations if required to keep 5" minimum concrete slab. (See Section 6-8 sheet 2)

DESIGNER: Locher	APPROVED: [Signature]	CITY OF DETROIT	JEFFERSON AVE BRIDGE X068	SHEET 1 OF 3 SHEETS
DRAWN BY: Locher	STRUCTURAL ENGINEER	DEPARTMENT OF PUBLIC WORKS	GENERAL PLAN OF SITE	JOB No. PW 5752
TRACED BY:	ASSOCIATE CITY ENGINEER	HIGHWAY & EXPRESSWAY DIVISION		DRWG No. C-101
CHECKED BY: STURM	CITY ENGINEER	BRIDGE WIDENING		DATE: OCT 1966

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Detroit, MI 48226
313-963-6780

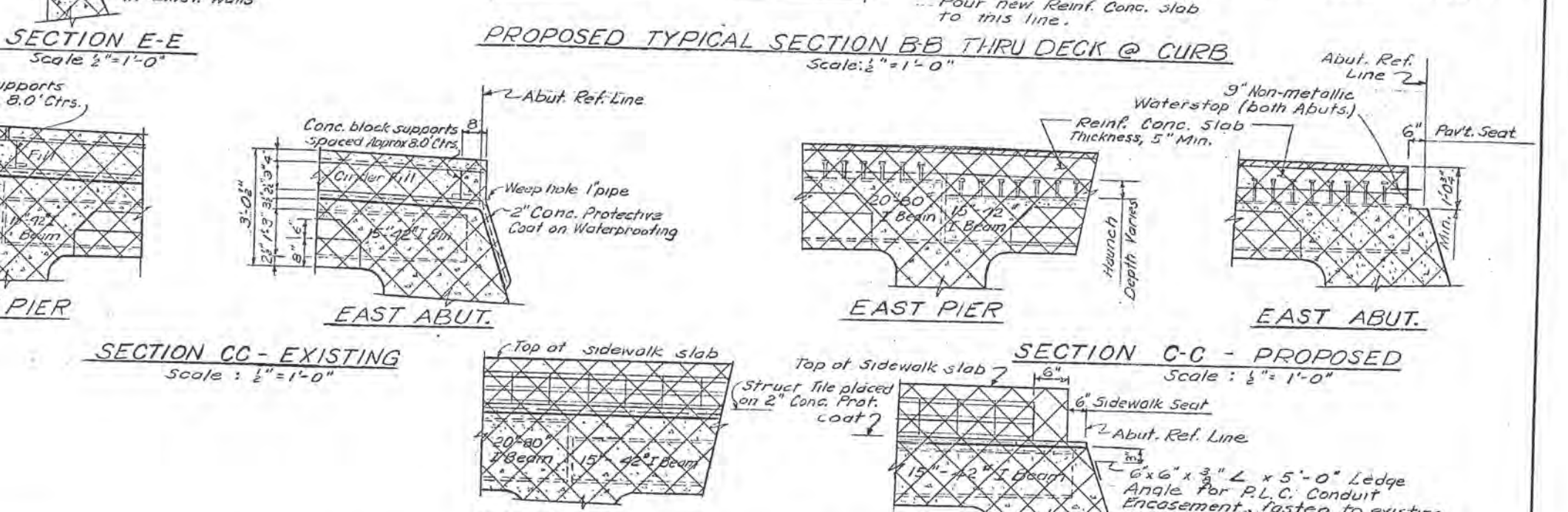
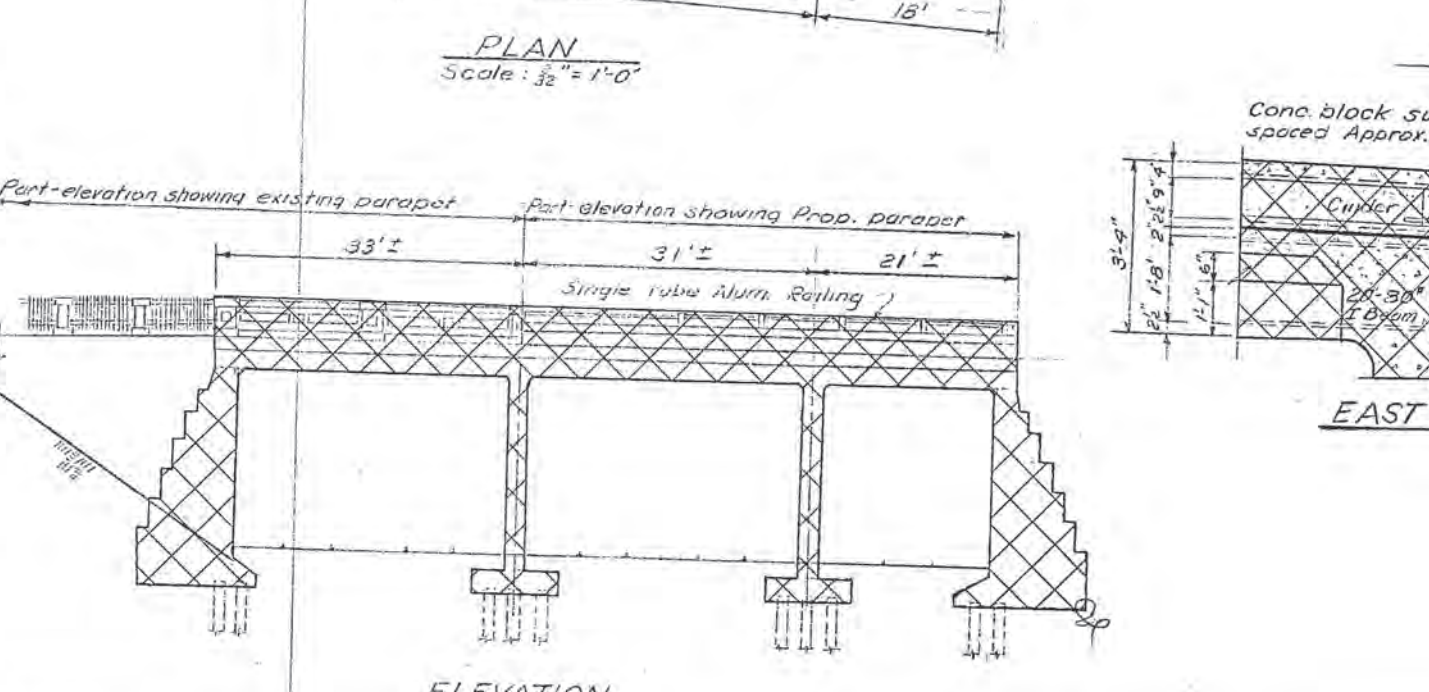
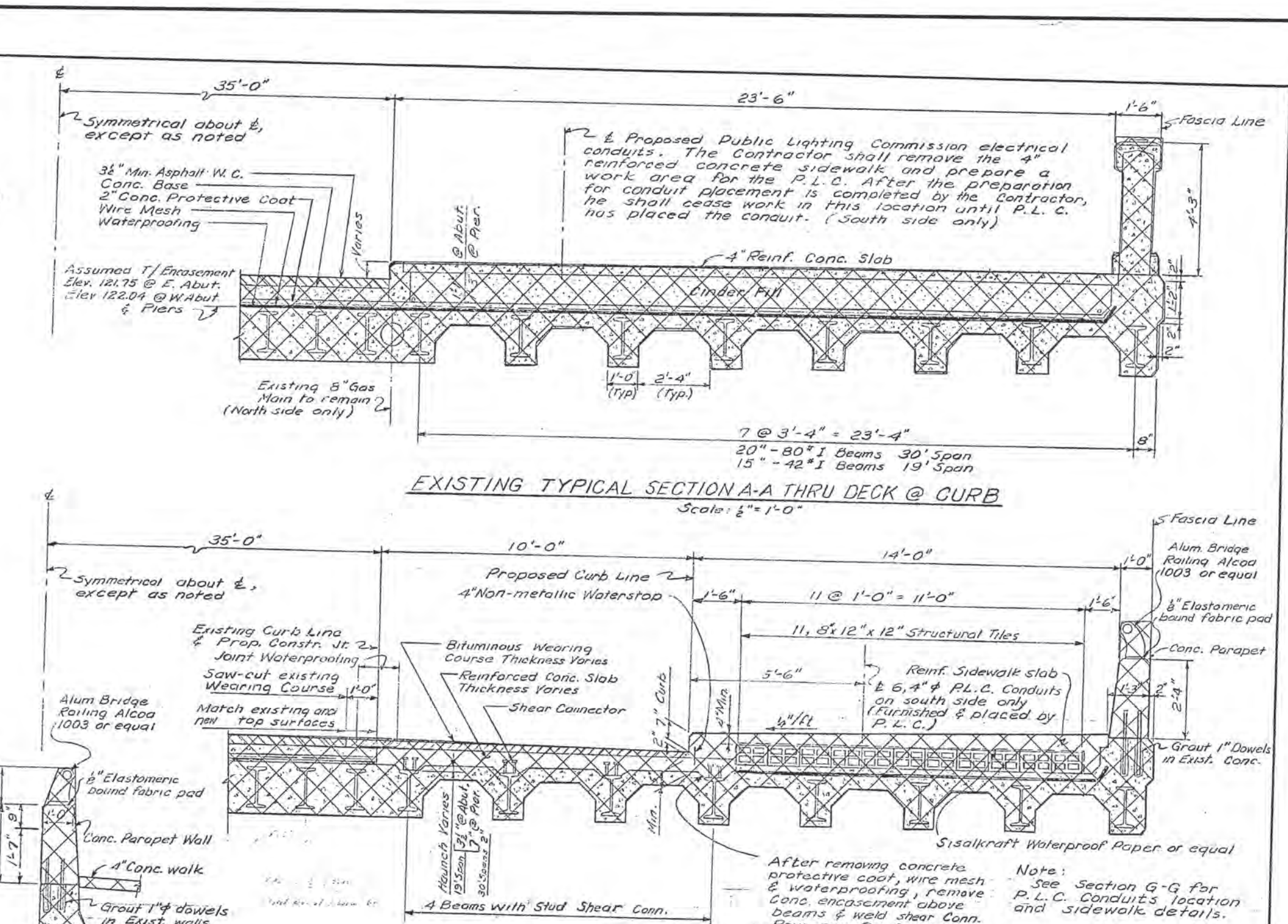
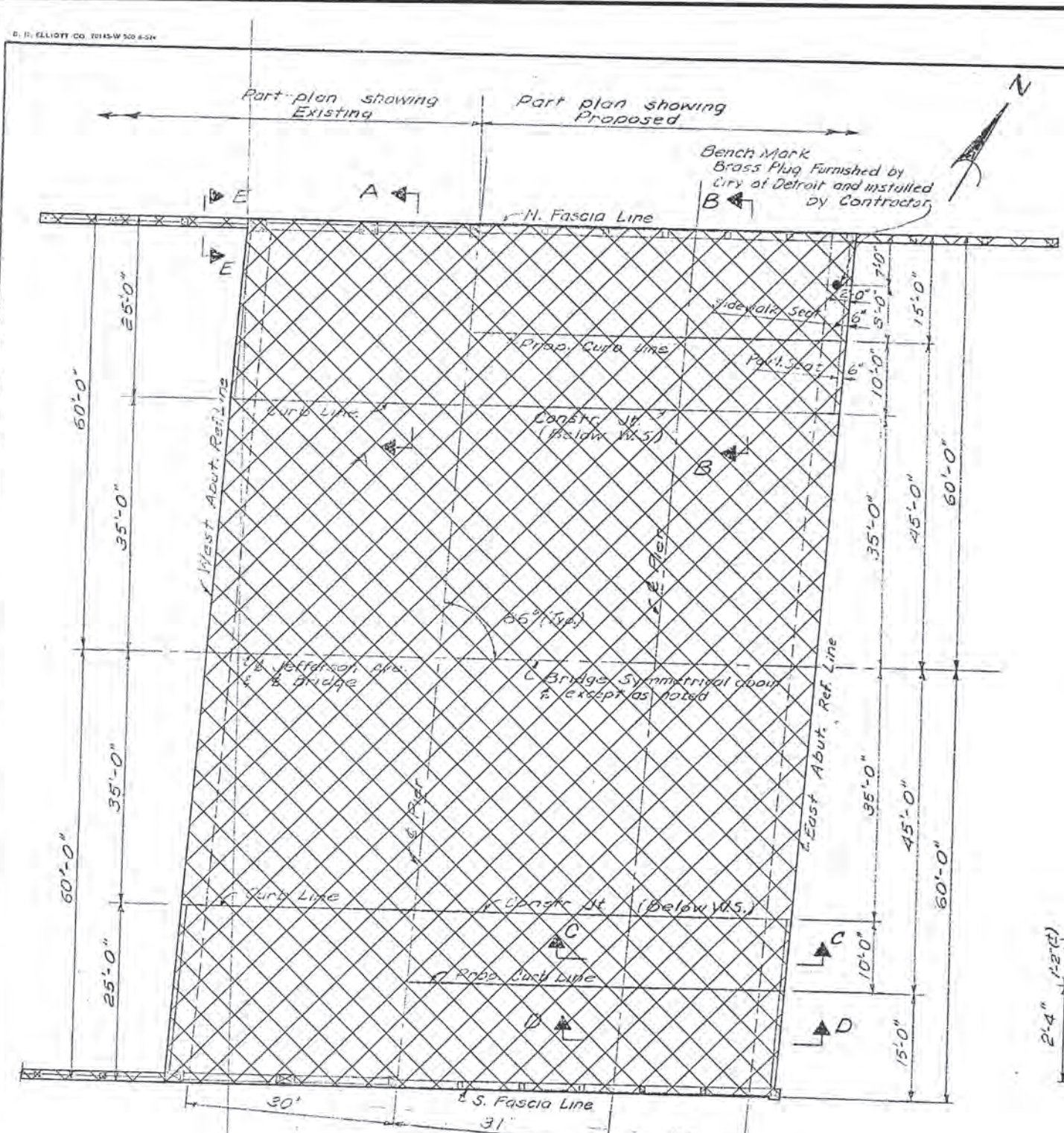
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

EXISTING GENERAL PLAN OF SITE				
JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	52 OF 80

DRAWN BY: DCP DATE: 2/10/2005 CHECKED BY: RJO DATE: 2/10/2005 FILE NAME: C:\35458A\Struct\CADD\jeff_jeff_srf01.dgn

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REVISIONS			
NO.	DESCRIPTION	DATE	BY



DESIGNED BY Locher	APPROVED BY R. Colquhoun
DRAWN BY Locher	STRUCTURAL ENGINEER
CHECKED BY STURM	ASSOCIATE CITY ENGINEER

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS HIGHWAY & EXPRESSWAY DIVISION		JEFFERSON AVE. BRIDGE X068 G.I.N.R.	SHEET 2 OF 8 SHEETS JOB No. PW 5752 DRWG No. C-102 DATE OCT 1965
BRIDGE WIDENING		GENERAL PLAN OF STRUCTURE	

JOB NO. 79717A

□ DENOTES WORK IN THIS PROJECT
▨ DENOTES REMOVAL PORTIONS

JOB NO. 49717A

NOTE:
THE ENTIRE EXISTING STRUCTURE SHALL BE REMOVED. PAID FOR AS "Structure, Rem". (SO1 OF 82-22-02)



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CITY ENGINEERING DIVISION

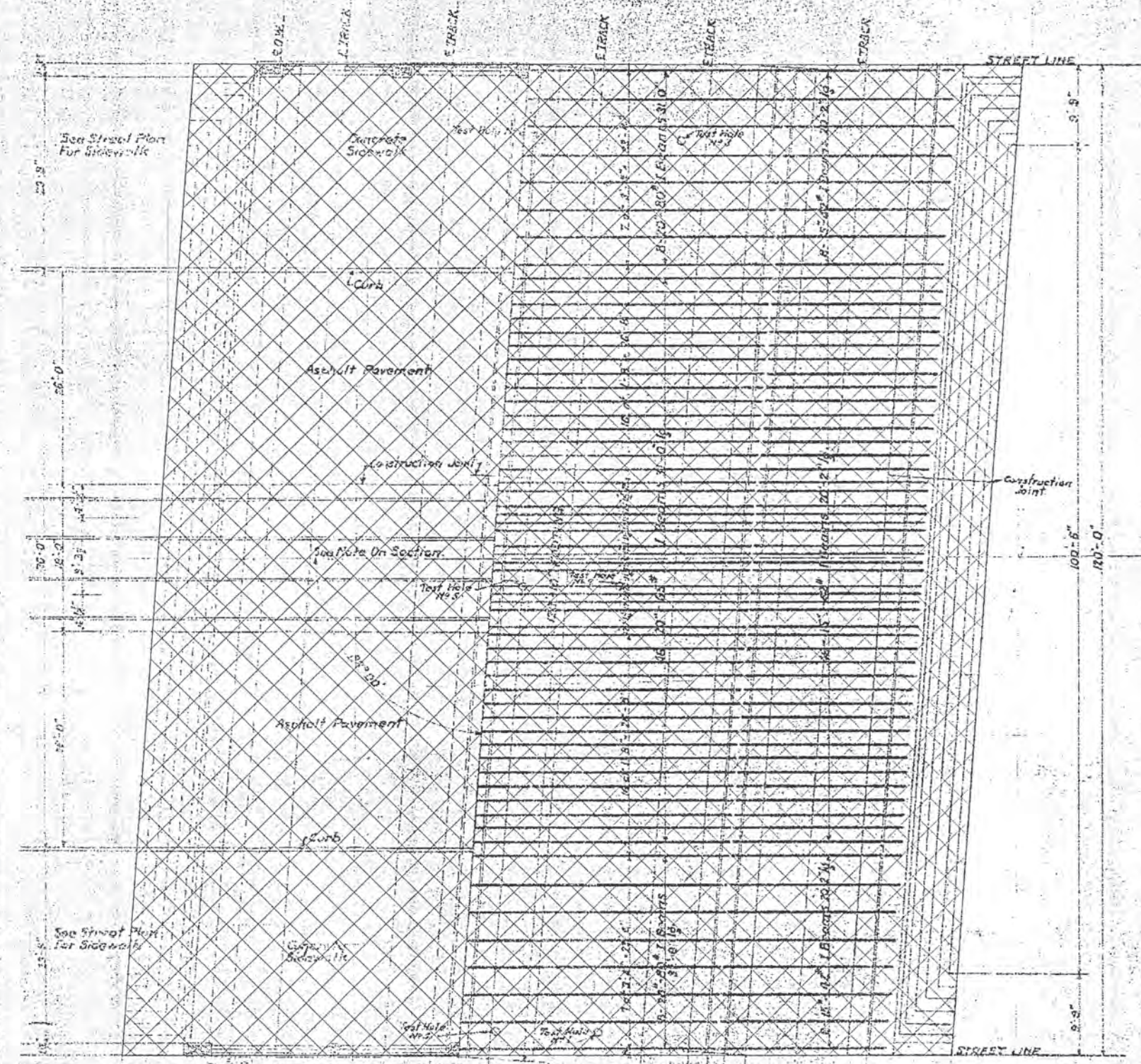
EXISTING GENERAL PLAN OF STRUCTURE (REMOVAL)
JEFFERSON AVE OVER DEQUINDRE CUT

DATE 02-11-05	STRUCTURE NO. SO1 OF 82-22-02	CONT. SEC. BRT 82022	JOB NO. 49717A	SHEET 53 OF 80
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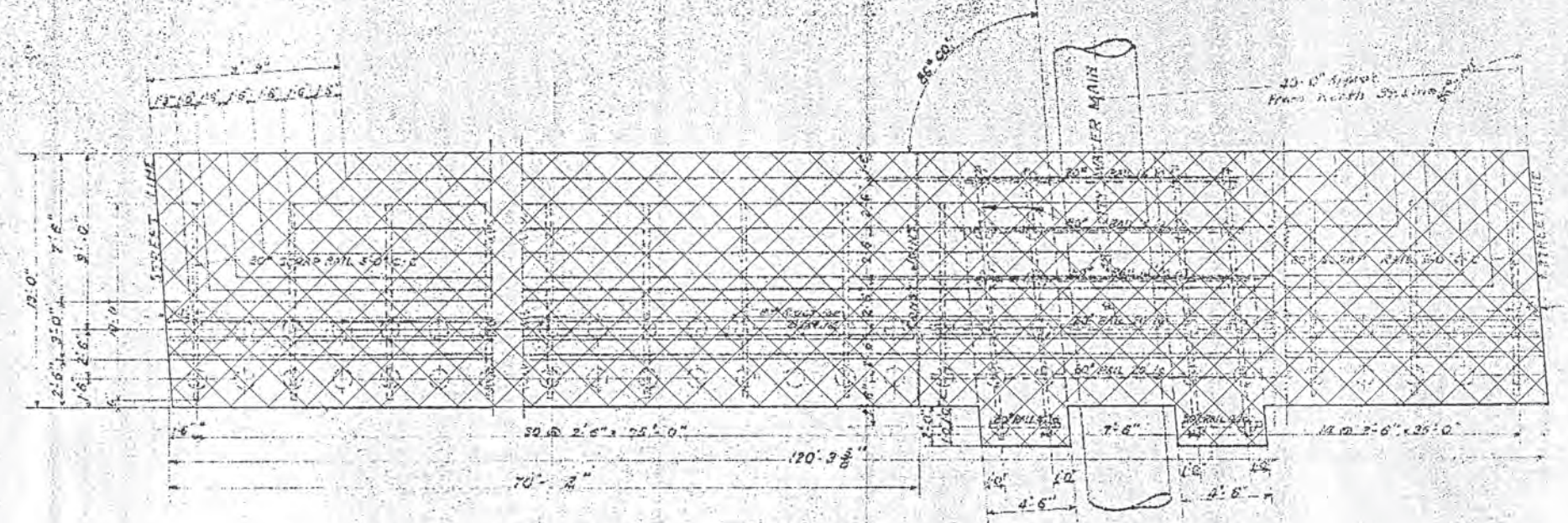
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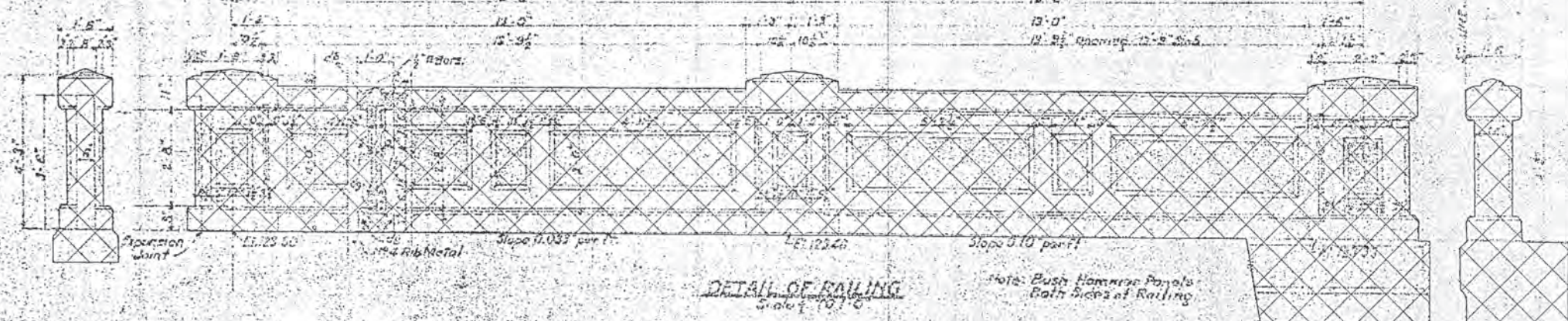
REVISIONS			
NO.	DESCRIPTION	DATE	BY



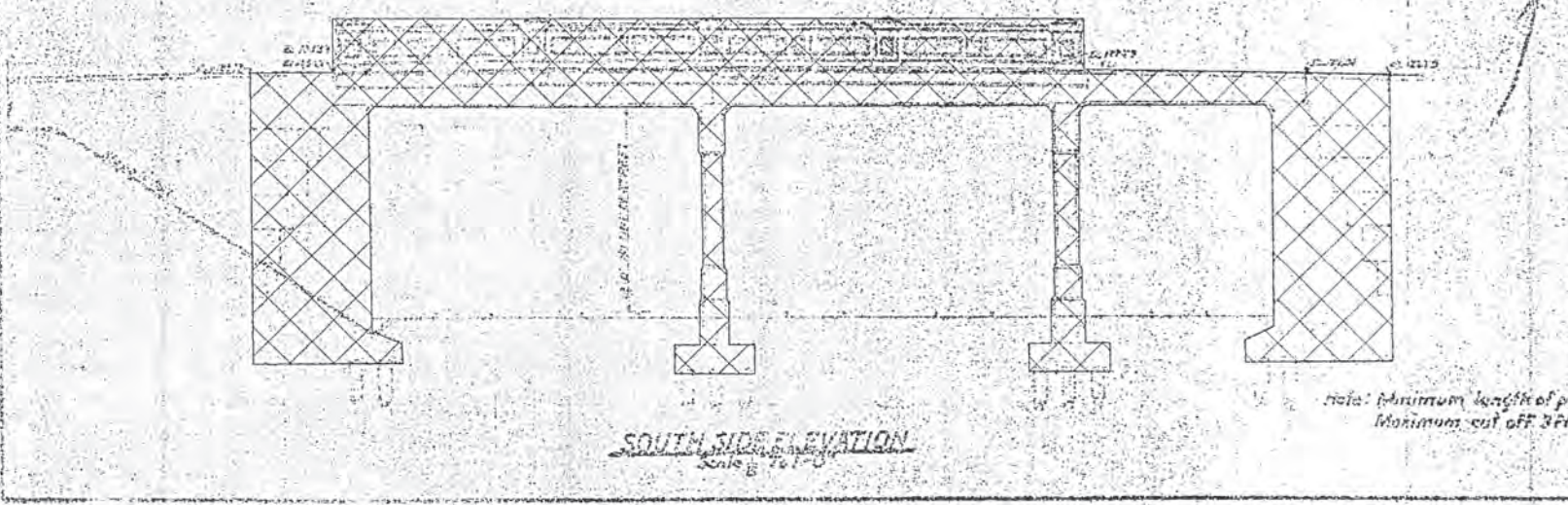
PLAN
Scale: 1/8" = 1'-0"



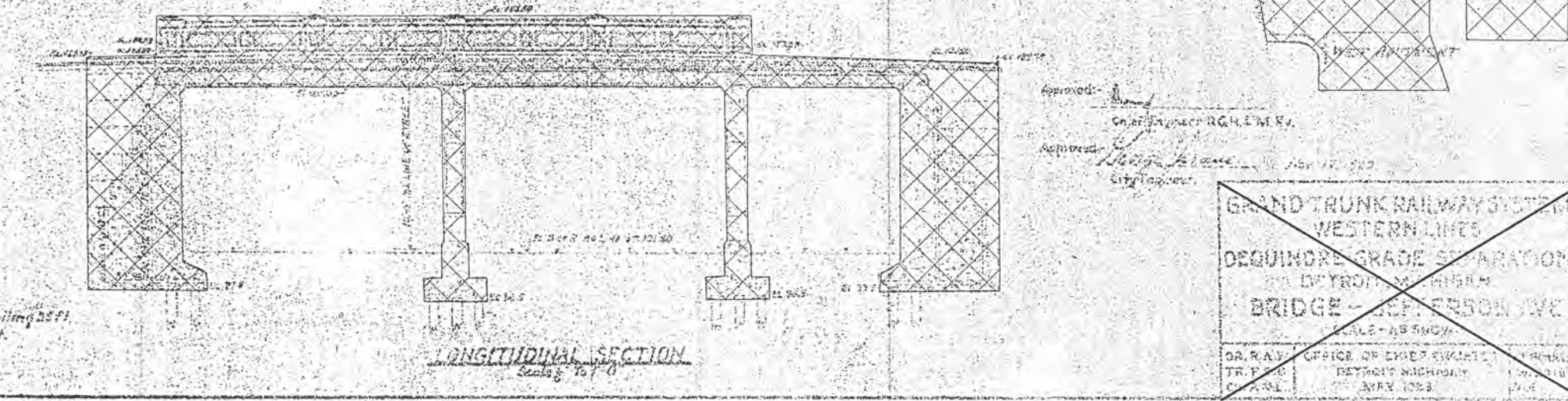
DETAIL OF WEST ABUTMENT
Scale: 1/8" = 1'-0"



DETAIL OF RAILING
Scale: 1/8" = 1'-0"



SOUTH SIDE ELEVATION
Scale: 1/8" = 1'-0"



LONGITUDINAL SECTION
Scale: 1/8" = 1'-0"

Notes: Minimum length of piling 25 ft.
Maximum cut off 3 ft.

JOB NO. 49717A

DENOTES WORK IN THIS PROJECT
 DENOTES REMOVAL PORTIONS



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313-963-5700

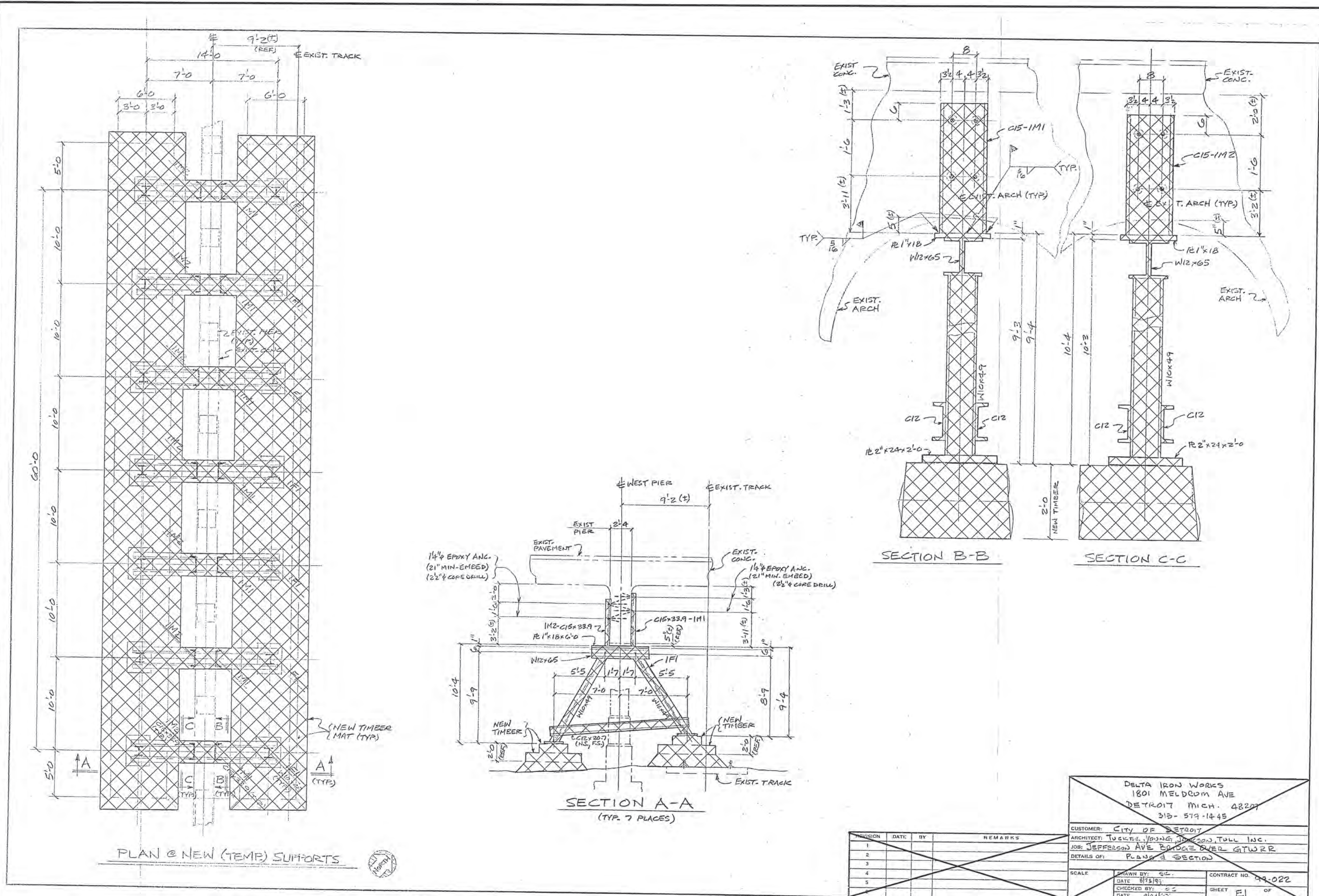
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

EXISTING GENERAL PLAN OF STRUCTURE (REMOVAL)
JEFFERSON AVE OVER DEQUINDRE CUT

DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	54 OF 80

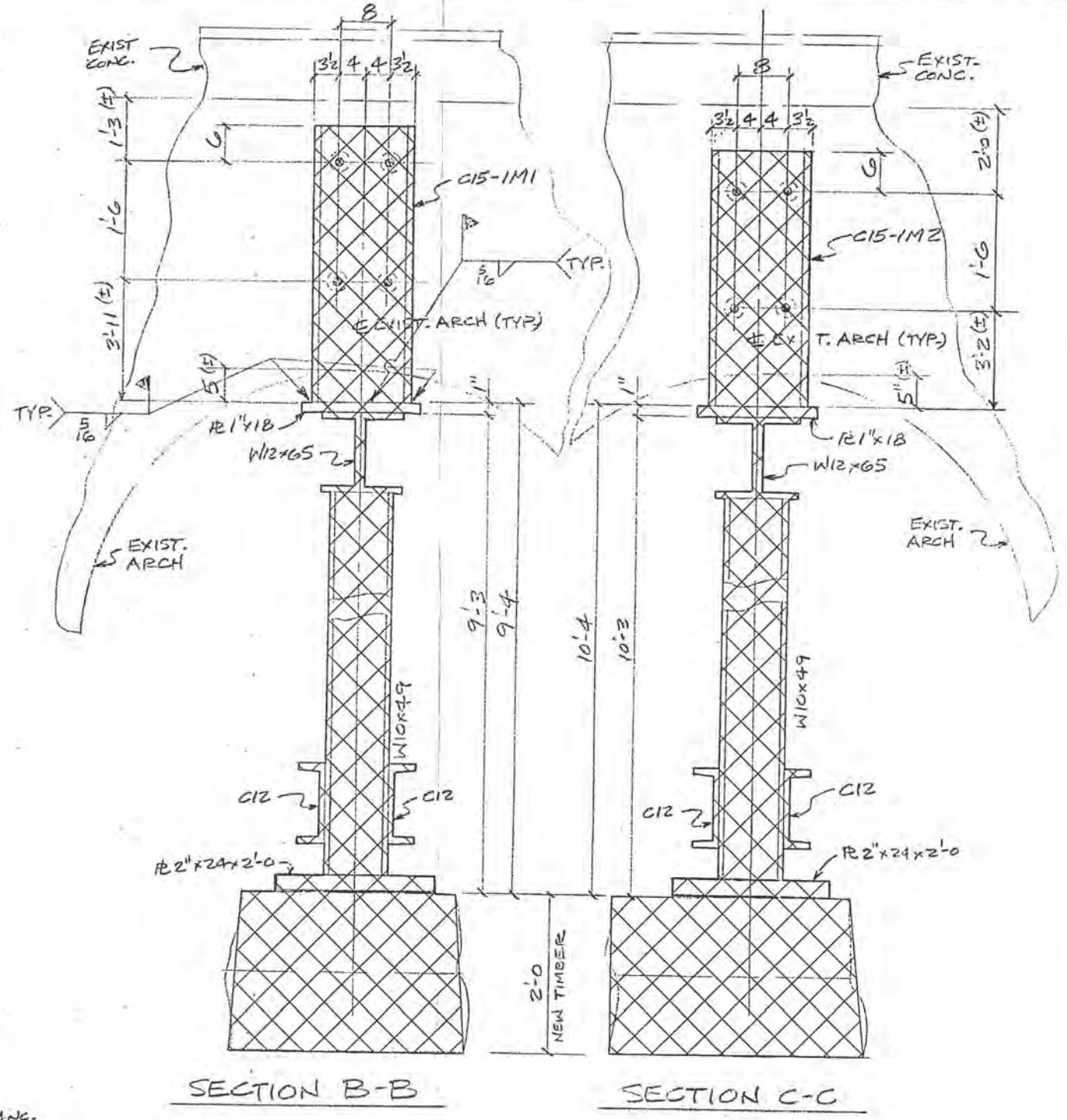
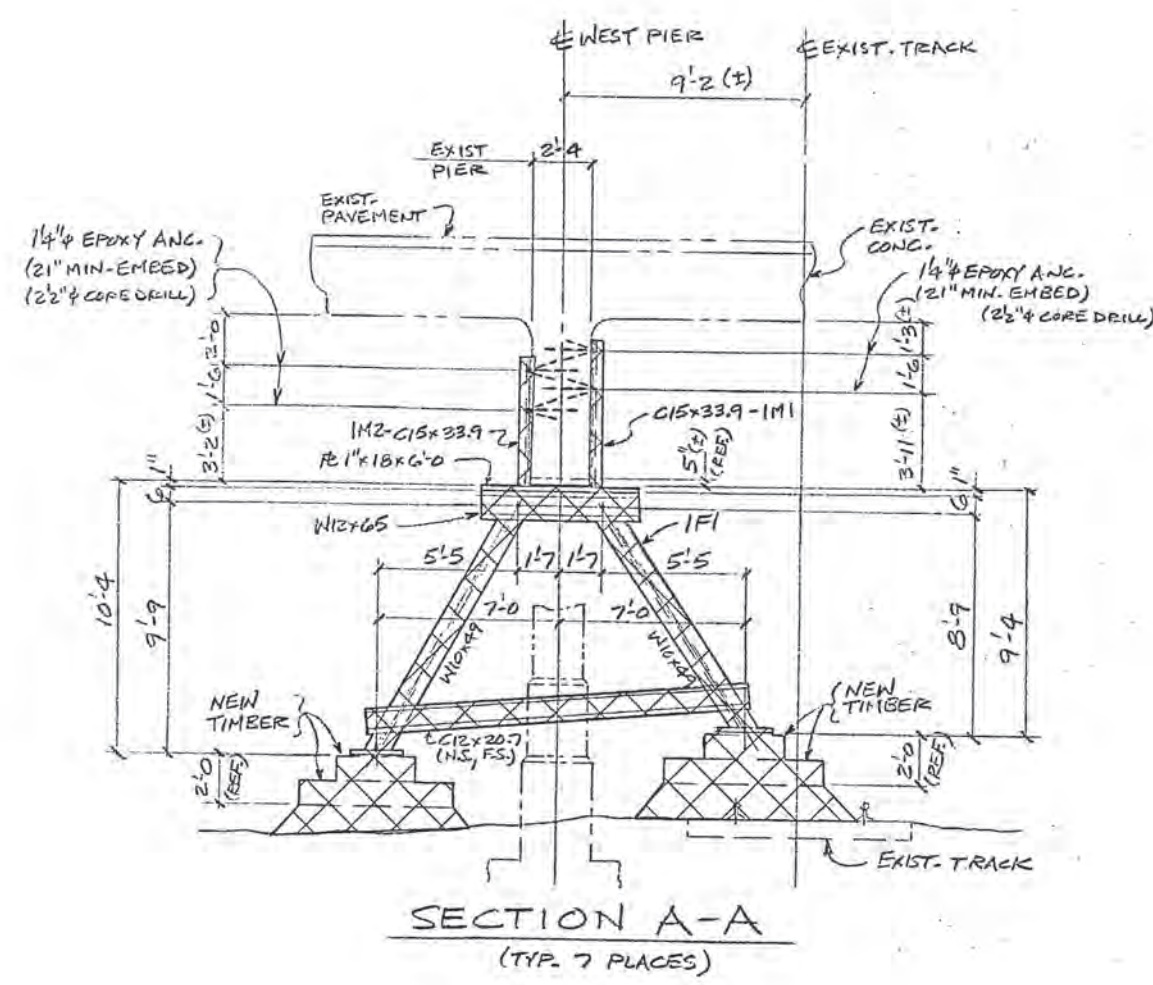
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REVISIONS			
NO.	DESCRIPTION	DATE	BY

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PLAN @ NEW (TEMP) SUPPORTS

JOB NO. 49717A
 □ DENOTES WORK IN THIS PROJECT
 ▨ DENOTES REMOVAL PORTIONS



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 Detroit, MI 48226
 313-963-6700

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION

DELTA IRON WORKS 1801 MELDRUM AVE DETROIT MICH. 48207 313-579-1445	
CUSTOMER: City of Detroit	CONTRACT NO. 09-022
ARCHITECT: JACOBS + JACOBS ARCHITECTS, TULL INC.	SHEET E1 OF
JOB: JEFFERSON AVE BRIDGE OVER DETWRR	
DETAILS OF: PLAN & SECTION	
SCALE: DRAWN BY: SE	
DATE: 8/18/03	
CHECKED BY: SS	
DATE: 8/24/03	

JOB NO. 49717A
 NOTE:
 REMOVAL OF THE EXISTING TEMPORARY
 SUPPORT SHALL BE CONSISTENT WITH
 CONSTRUCTION STAGING.

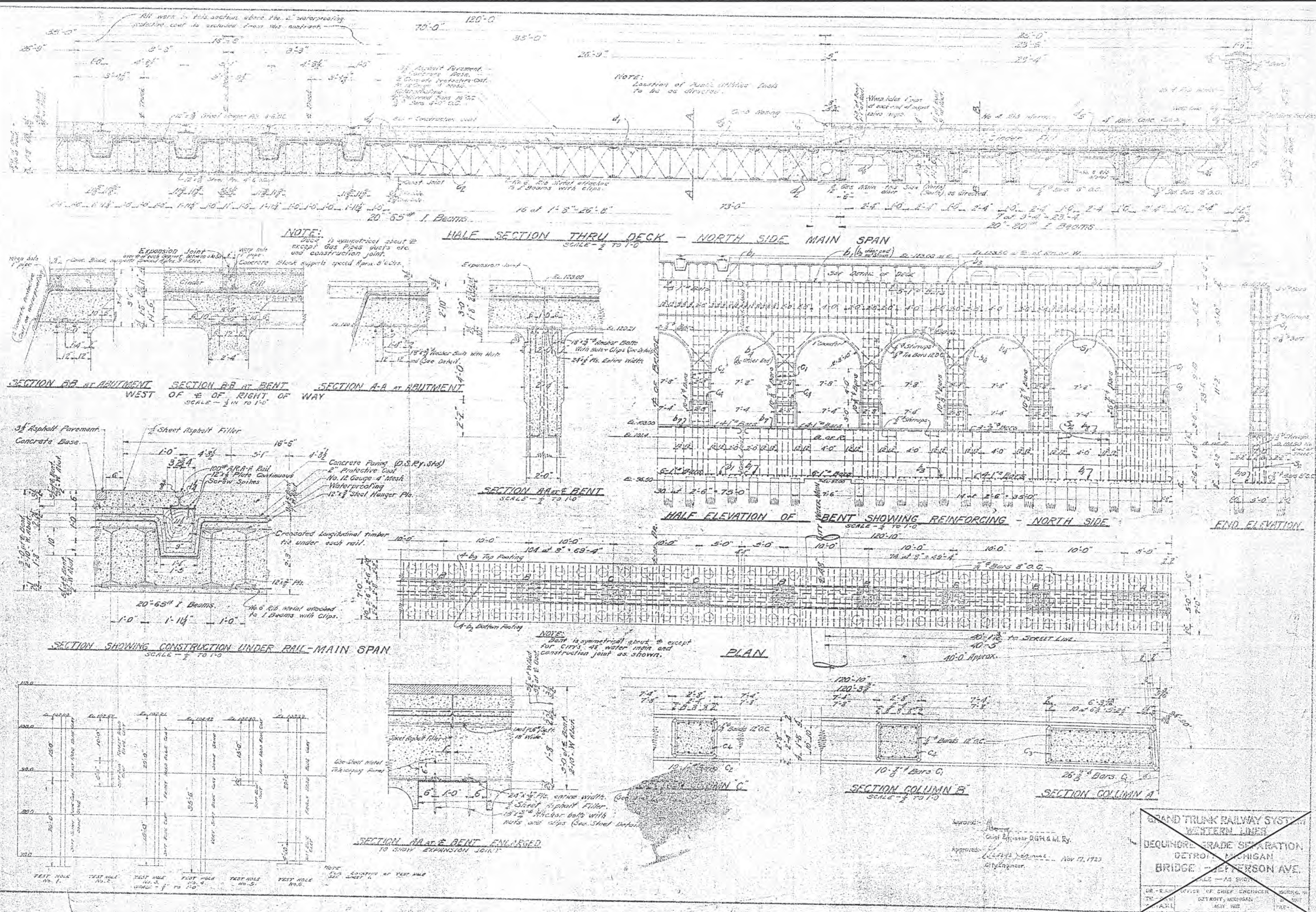
EXISTING STRUCTURE SUPPORT (REMOVAL) JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	55 OF 80

FILE NAME: G:\35458d\Struct\CADD\Jeff_sir05.dgn DRAWN BY: DCP DATE: 2/10/2005 CHECKED BY: RJO DATE: 2/10/2005

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NO.	DESCRIPTION	DATE	BY

FILE NAME: G:\35456d\Struct\CADD\NetL_sir04.dgn DRAWN BY: DCP DATE: 2/10/2005 CHECKED BY: RJO DATE: 2/10/2005



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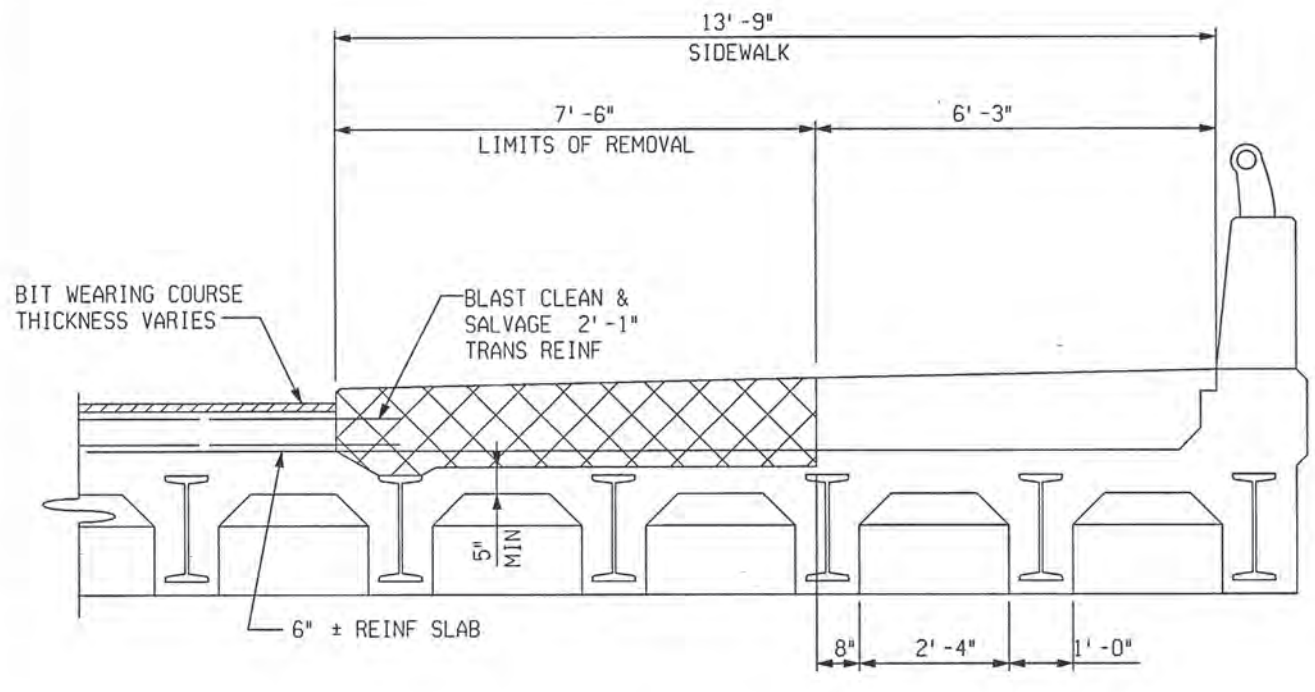
CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION

EXISTING STRUCTURAL DETAILS JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	56 OF 80

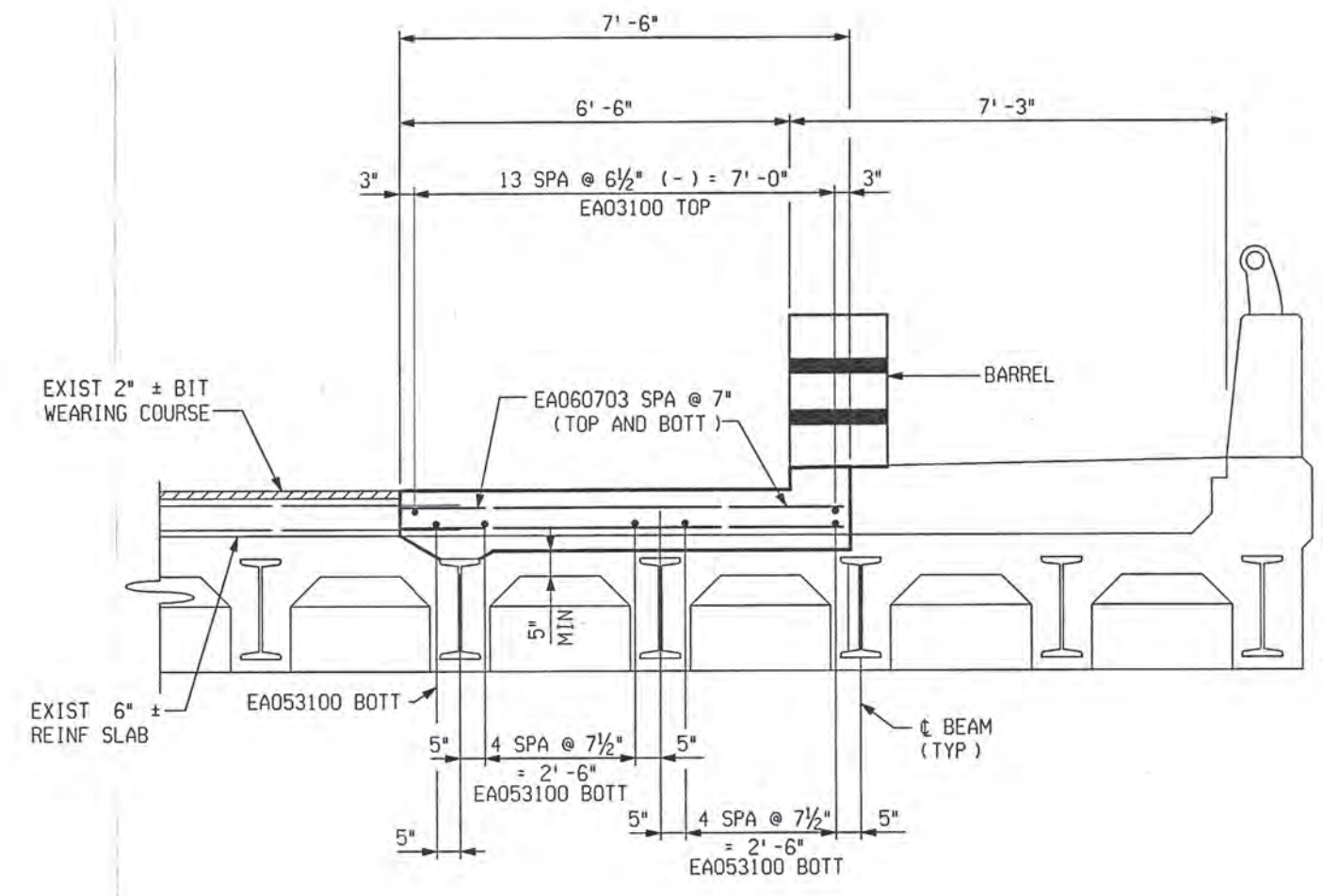
~~GRAND TRUNK RAILWAY SYSTEM
WESTERN LINES
DEQUINDRE GRADE SEPARATION
DETROIT, MICHIGAN
BRIDGE - JEFFERSON AVE.~~

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REVISIONS			
NO.	DESCRIPTION	DATE	BY

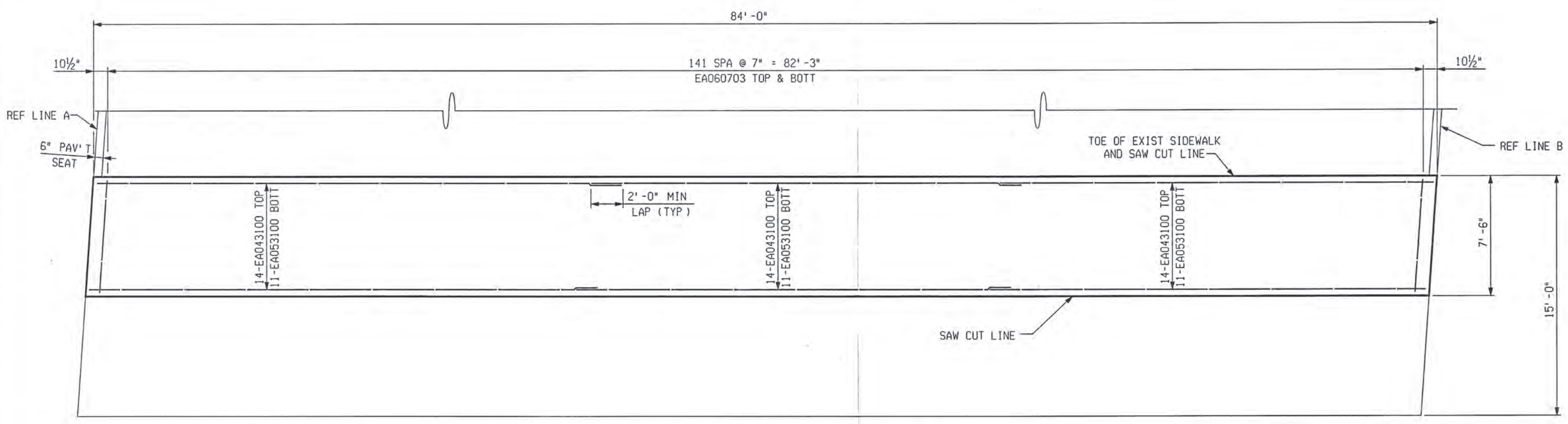


STAGE II REMOVAL
(SECTION THRU EXIST EAST SIDEWALK)



STAGE II CONSTRUCTION
(SHOWING TEMPORARY DECK WIDENING)

MISCELLANEOUS QUANTITIES		
12	Cyd	Superstructure Conc



PLAN OF TEMPORARY DECK REPLACEMENT



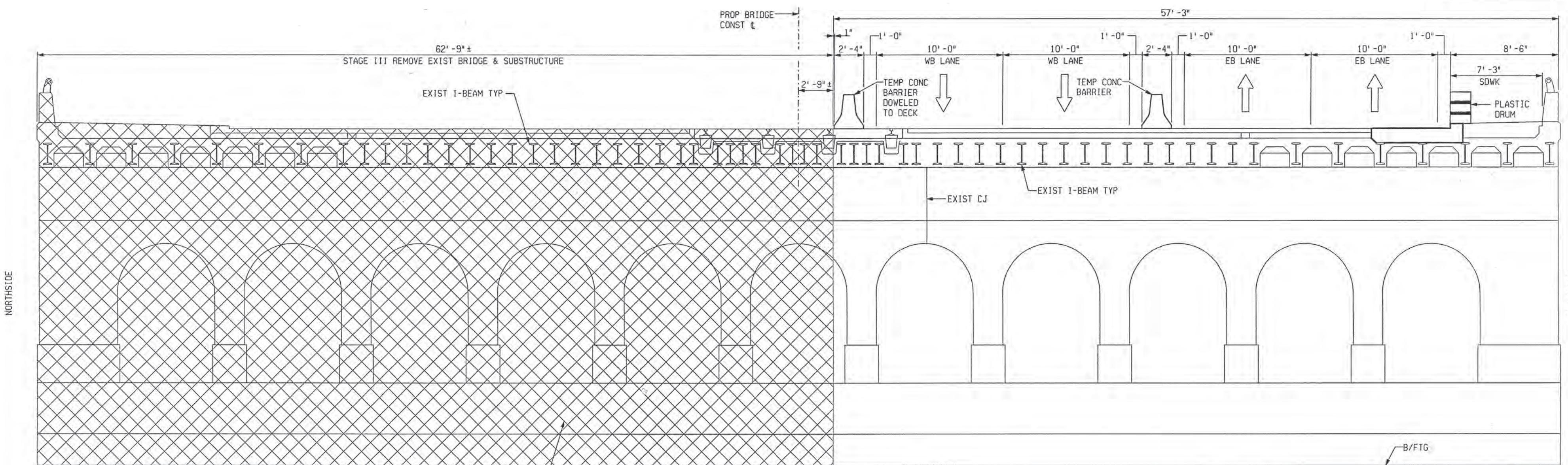
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

CONSTRUCTION STAGING JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	57 OF 80

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REVISIONS			
NO.	DESCRIPTION	DATE	BY

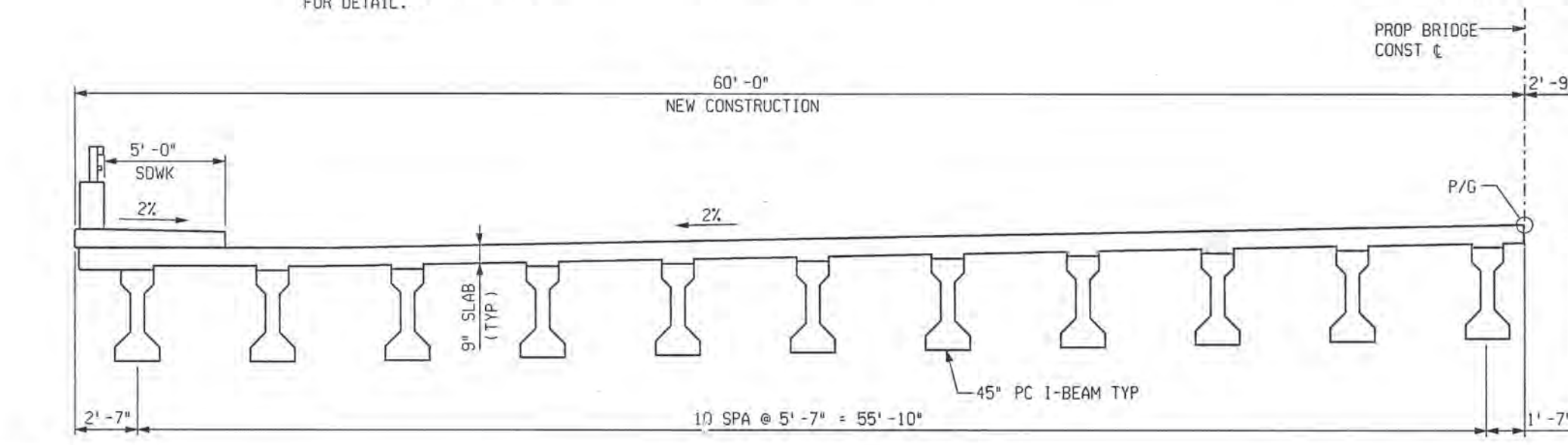


NOTE:
EXISTING BRACING/SHORING TO BE REMOVED. SEE NEXT SHEET FOR DETAIL.

2 PIERS
2 ABUTMENTS

PIER SHOWN
ABUTMENT BEHIND

STAGE III REMOVAL
LOOKING UPSTATION

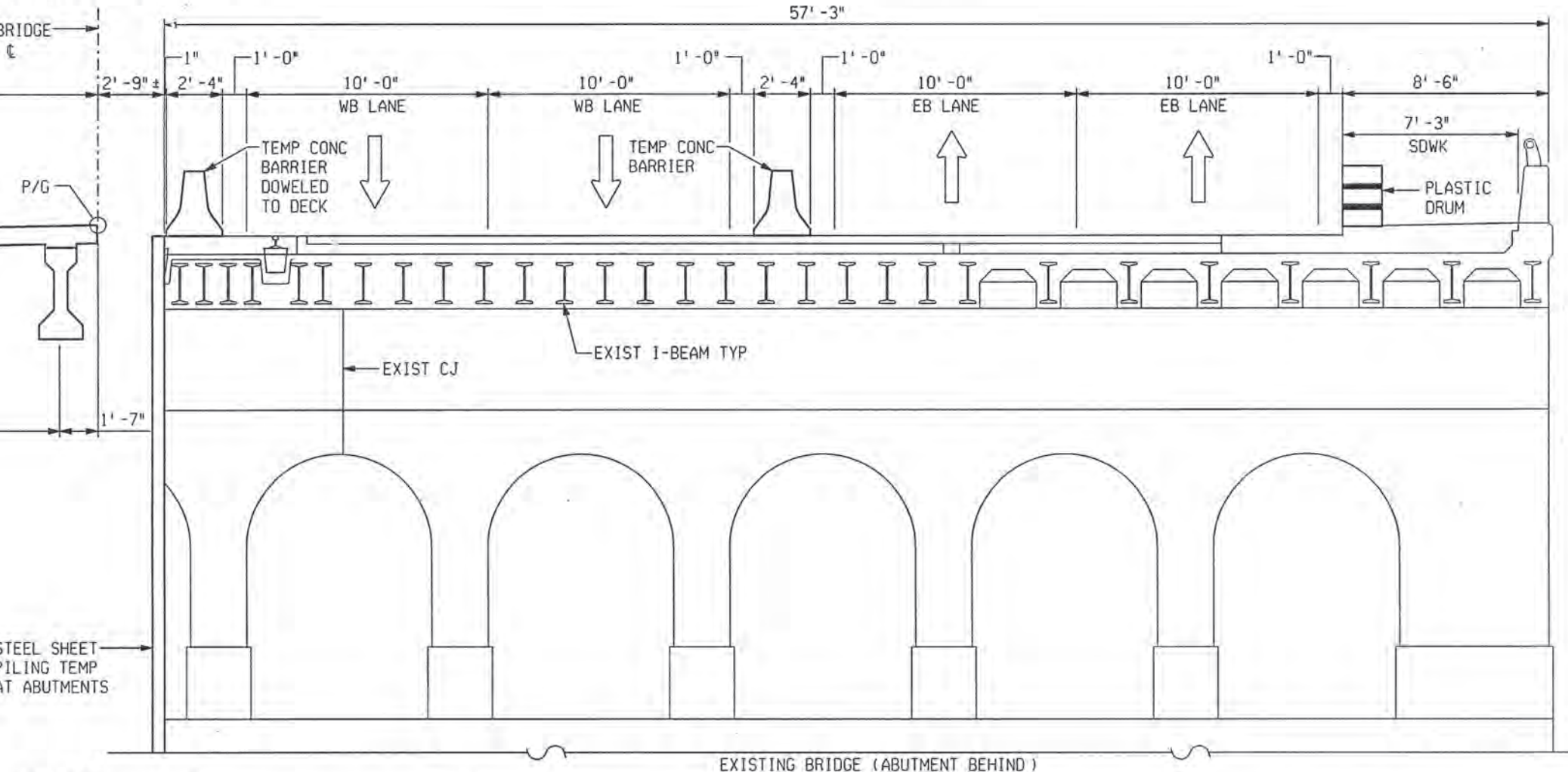


NOTES:
PLACEMENT OF TEMPORARY CONCRETE BARRIER SHALL BE IN ACCORDANCE WITH STANDARD PLAN R-126-A
JEFFERSON AVENUE TRAFFIC IS TO BE MAINTAINED OVER THE STRUCTURE BY PART WIDTH CONSTRUCTION

STAGE III:
SET UP TEMPORARY CONCRETE BARRIER ON EB JEFFERSON AVENUE. SHIFT EB TRAFFIC TO EB OUTSIDE LANES. SHIFT WB TRAFFIC INSIDE TO EB LANES. CLOSE WB LANES TO TRAFFIC AT BRIDGE. CLOSE ST. AUBIN AT LARNED ST. AVENUE (SEE DETOUR PLANS). CLOSE NB ORLEANS ST. TO THRU TRAFFIC AT JEFFERSON AVENUE. REMOVE NORTH HALF OF EXISTING BRIDGE. CONSTRUCT NORTH HALF OF BRIDGE. CONSTRUCT REMAINDER OF DECKS FOR PLD CONDUITS TO MANHOLES ON WESTBOUND SIDE OF ROADWAY. ONLY FIVE FEET OF SIDEWALK SHALL BE CONSTRUCTED DURING THIS STAGE.

STAGE IVA:
PLACE TEMPORARY CONCRETE BARRIER ON COMPLETED NORTH HALF OF BRIDGE. SHIFT WB TRAFFIC OUTER WB LANES. SHIFT EB TRAFFIC TO INSIDE WB LANES. CLOSE EB LANES TO TRAFFIC AT BRIDGE. CLOSE OUTSIDE LANE ON SOUTHBOUND ST. AUBIN. BAG TRAFFIC SIGNALS AT ST. AUBIN AND PROHIBIT LEFT TURNS FROM JEFFERSON AVENUE TO ST. AUBIN. REMOVE AND CONSTRUCT SOUTH HALF OF BRIDGE.

STAGE IVB:
REMOVE TEMPORARY CONCRETE BARRIER AND OPEN BRIDGE TO WB AND EB TRAFFIC. CLOSE OUTERMOST WB LANE. CONSTRUCT REMAINDER OF WB SIDEWALK. COLD MILL AND OVERLAY CENTER LANE



STAGE III CONSTRUCTION
LOOKING UPSTATION



3 WORKING DAYS EXCLUDING SATURDAY, SUNDAY & HOLIDAYS
BEFORE YOU DIG CALL MISS DIG
1-800-487-7177
TOLL FREE

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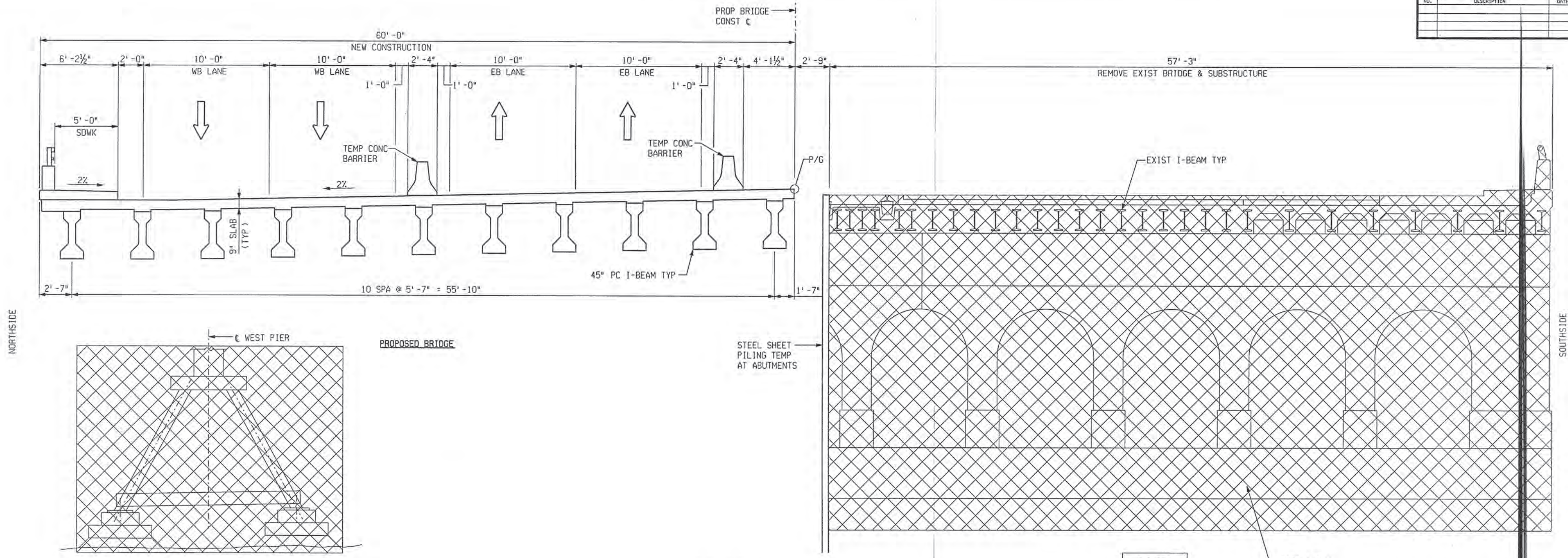
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

CONSTRUCTION STAGING JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	58 OF 80

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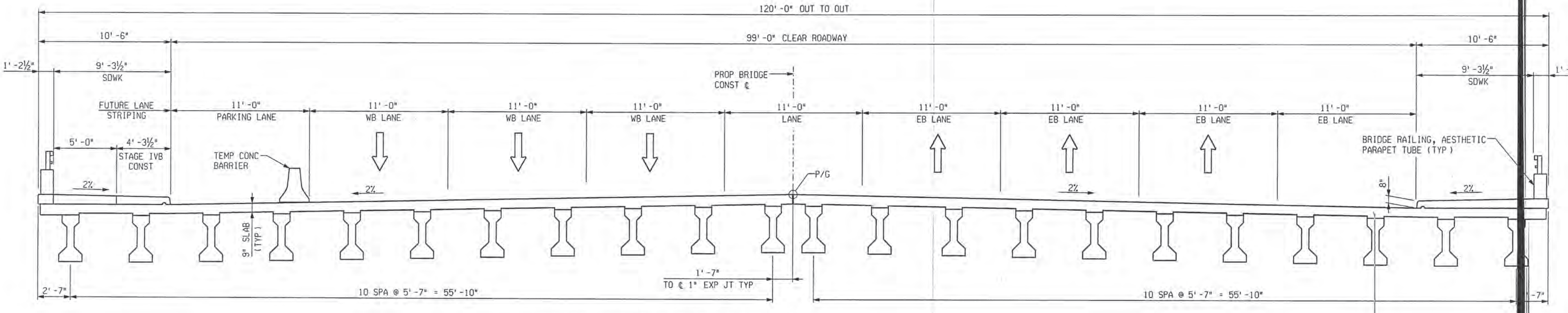
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REVISIONS			
NO.	DESCRIPTION	DATE	BY



EXISTING BRACING/SHORING
 2 TO BE REMOVED IN STAGE III REMOVAL
 5 TO BE REMOVED IN STAGE IVA REMOVAL

STAGE IVA REMOVAL
 LOOKING UPSTATION



STAGE IVA & IVB CONSTRUCTION
 LOOKING UPSTATION



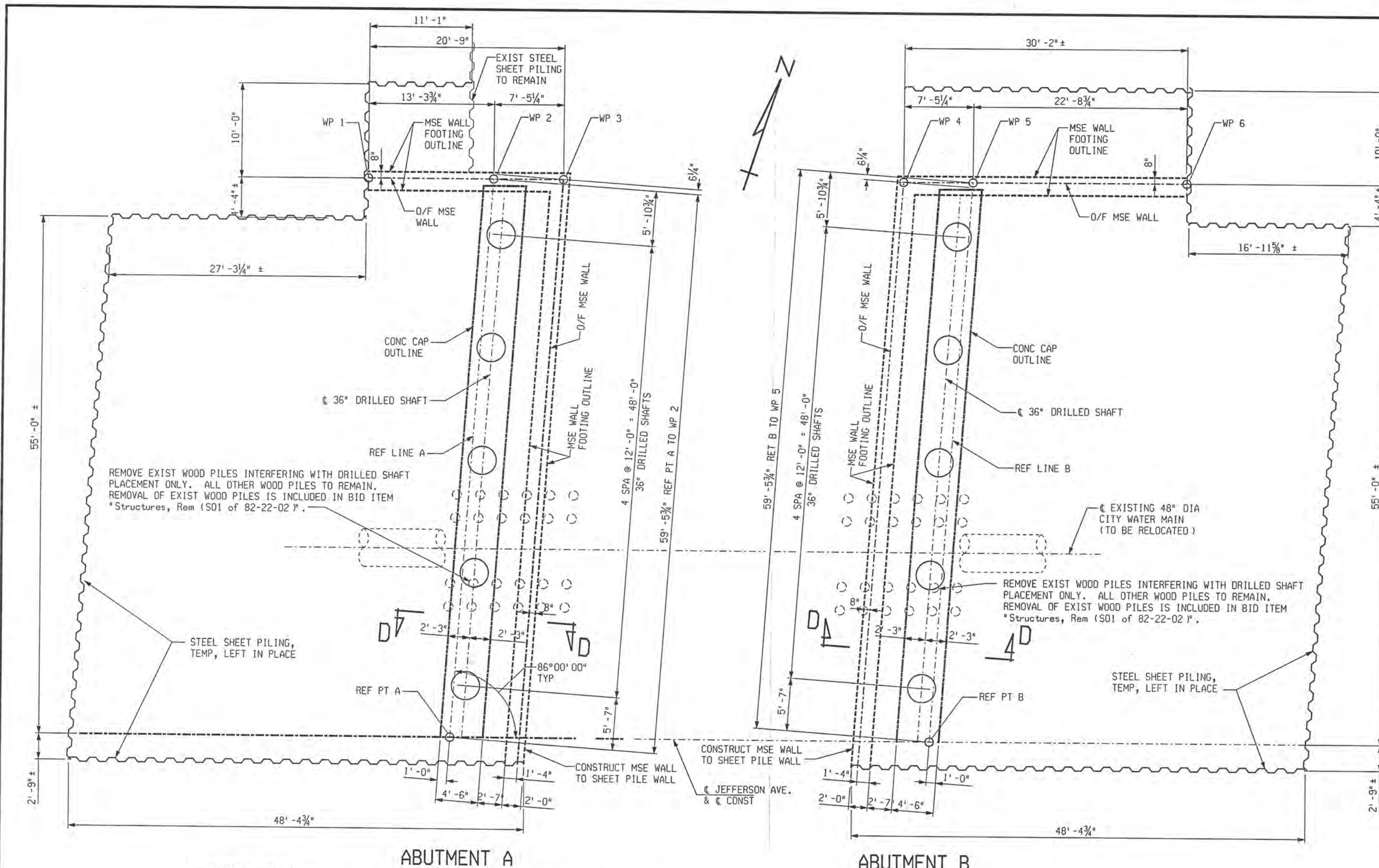
PB PARSONS BRINCKERHOFF, INC.
 635 Griswold Street
 5th Building, Suite 1525
 Detroit, MI 48226
 313-963-5700

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION

CONSTRUCTION STAGING				
JEFFERSON AVE OVER DEQUINDRE C				
DATE	STRUCTURE NO.	CONT. SEC.	JOB	SHEET
02-11-05	SO1 OF 82-22-02	BRT 82022	497	59 OF 80

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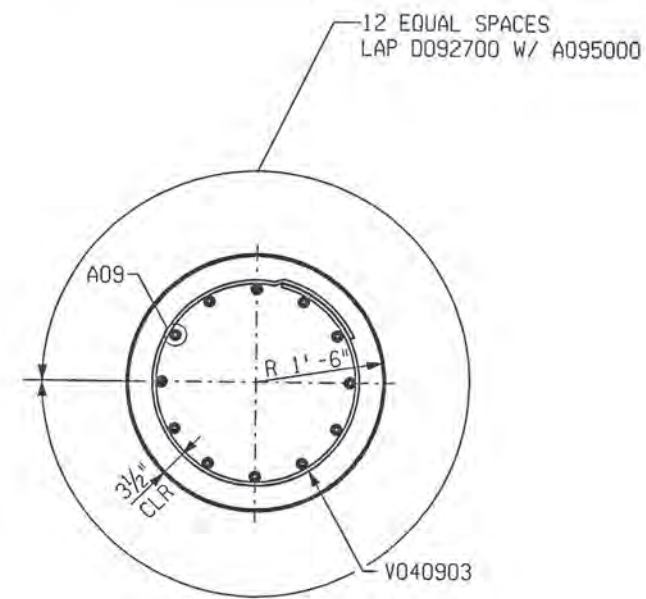
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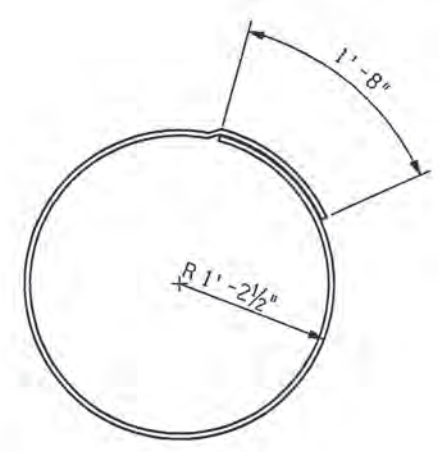
ABUTMENT A

ABUTMENT B

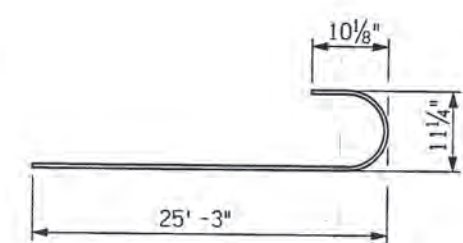
PLAN OF DRILLED SHAFT LAYOUT
STAGE III



SECTION E-E



V040903



D092608

ABUTMENTS-STAGE III

LOCATION	NO. OF DRILLED SHAFT	ESTIMATED LENGTH		CUT-OFF ELEV.
		EACH LFT	TOTAL LFT	
ABUT A	5	111	555	593.38
ABUT B	5	111	555	593.13
TOTAL	10	---	1110	

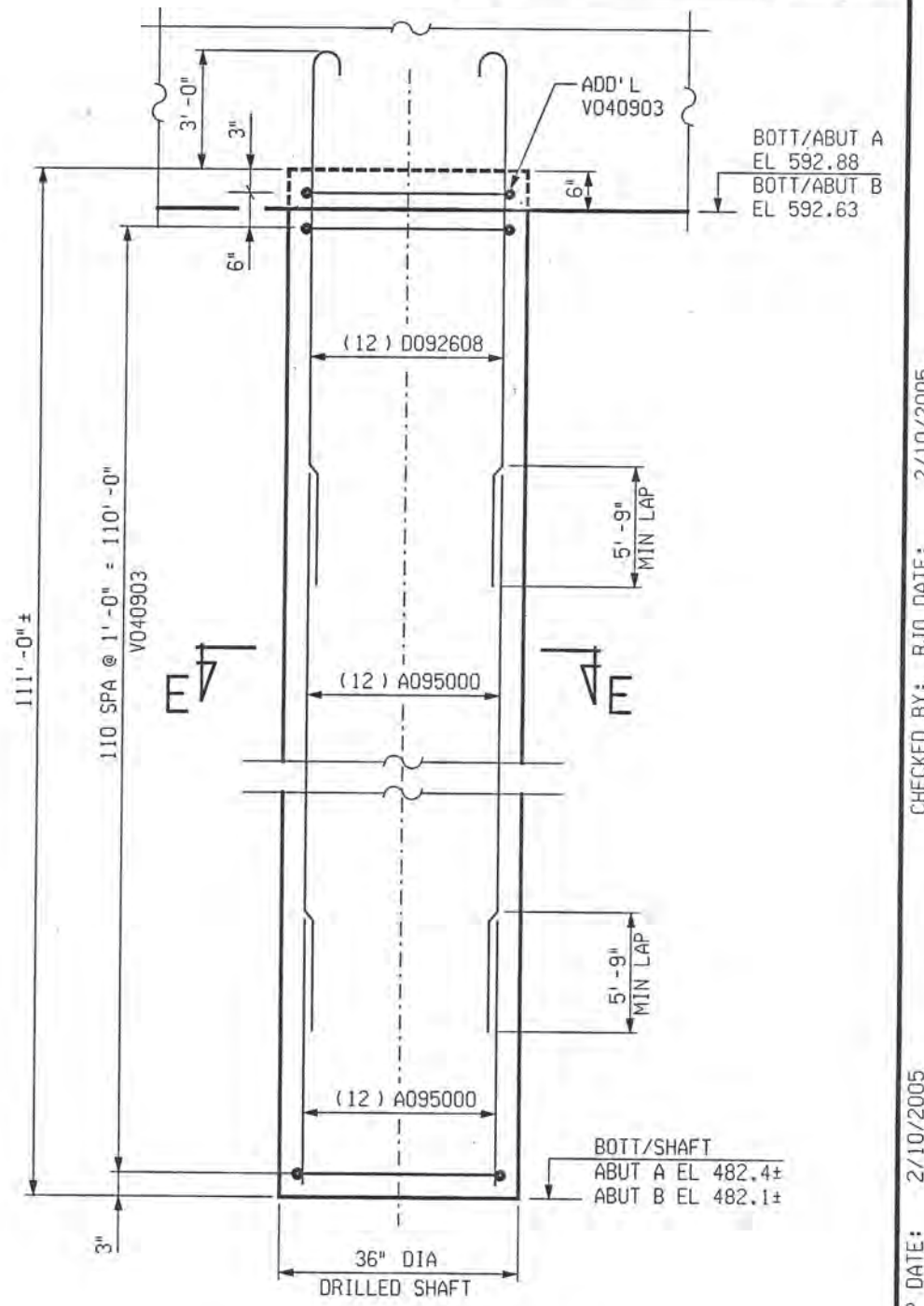
MISCELLANEOUS QUANTITIES			
1	LS	Drilled Shaft Equipment, Furnished (SO1 of 82-22-02)	
2,220	Ft	Drilled Shaft	
1,870	Ft	Drilled Shaft Excavation	

WP NO.	JEFFERSON AVE. & CONST STA	OFFSET LEFT	TOP/WALL ELEV	BOTT/WALL ELEV
1	9+85.04	59.33	601.03	575.70
2	9+98.37	59.33	601.14	575.70
3	10+05.81	59.33	596.66	575.70
4	10+85.68	59.33	596.45	575.70
5	10+93.12	59.33	600.82	575.70
6	11+15.85	59.33	600.44	581.20

NOTES:

DRILLED SHAFTS AT ABUTMENT A AND B SHALL BE 36" DIA.
SEE SPECIAL PROVISION FOR DRILLED SHAFT.

REVISIONS			
NO.	DESCRIPTION	DATE	BY



SHAFT ELEVATION



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Detroit, MI 48226
313-963-5760

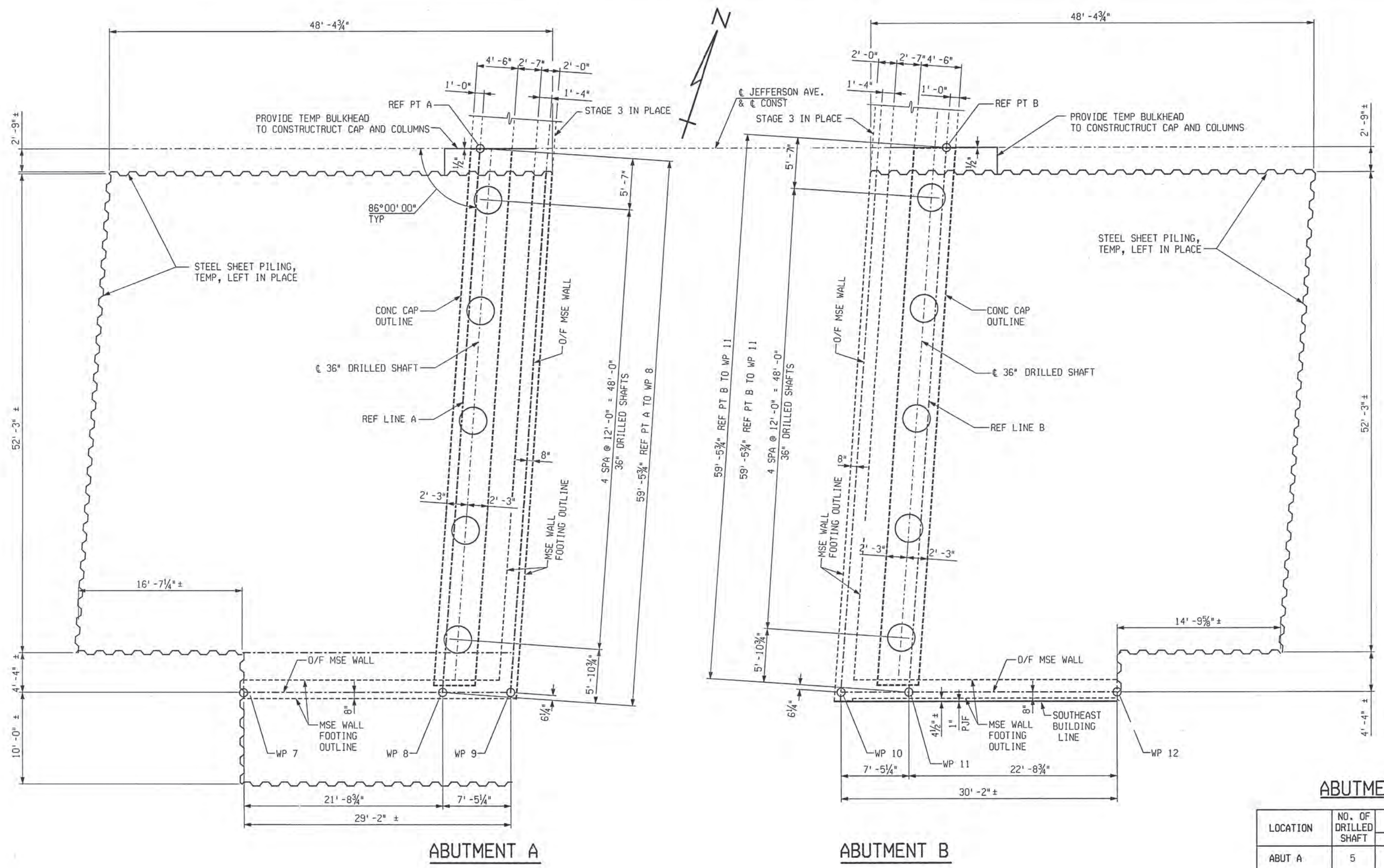
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

DRILLED SHAFT DETAILS
JEFFERSON AVE OVER DEQUINDRE CUT

DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	SO1 OF 82-22-02	BRT 82022	49717A	60 OF 80

2/24/12 PM
2/10/2005
RJO DATE: 2/10/2005
DCP DATE: 2/10/2005
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REVISIONS			
NO.	DESCRIPTION	DATE	BY

ABUTMENT A

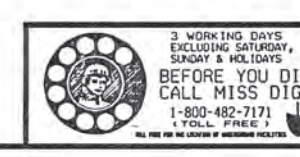
ABUTMENT B

PLAN OF DRILLED SHAFT LAYOUT
STAGE IVA

ABUTMENTS-STAGE IVA

LOCATION	NO. OF DRILLED SHAFT	ESTIMATED LENGTH		CUT-OFF ELEV.
		EACH LFT	TOTAL LFT	
ABUT A	5	111	555	593.38
ABUT B	5	111	555	593.13
TOTAL	10	---	1110	

WP NO.	JEFFERSON AVE. & CONST	OFFSET RIGHT	TOP/WALL ELEV	BOTT/WALL ELEV
7	9+68.34	59.33	600.82	580.70
8	9+90.07	59.33	601.07	575.70
9	9+97.51	59.33	596.66	575.70
10	10+77.38	59.33	596.45	575.70
11	10+84.82	59.33	600.93	575.70
12	11+07.55	59.33	600.59	581.20

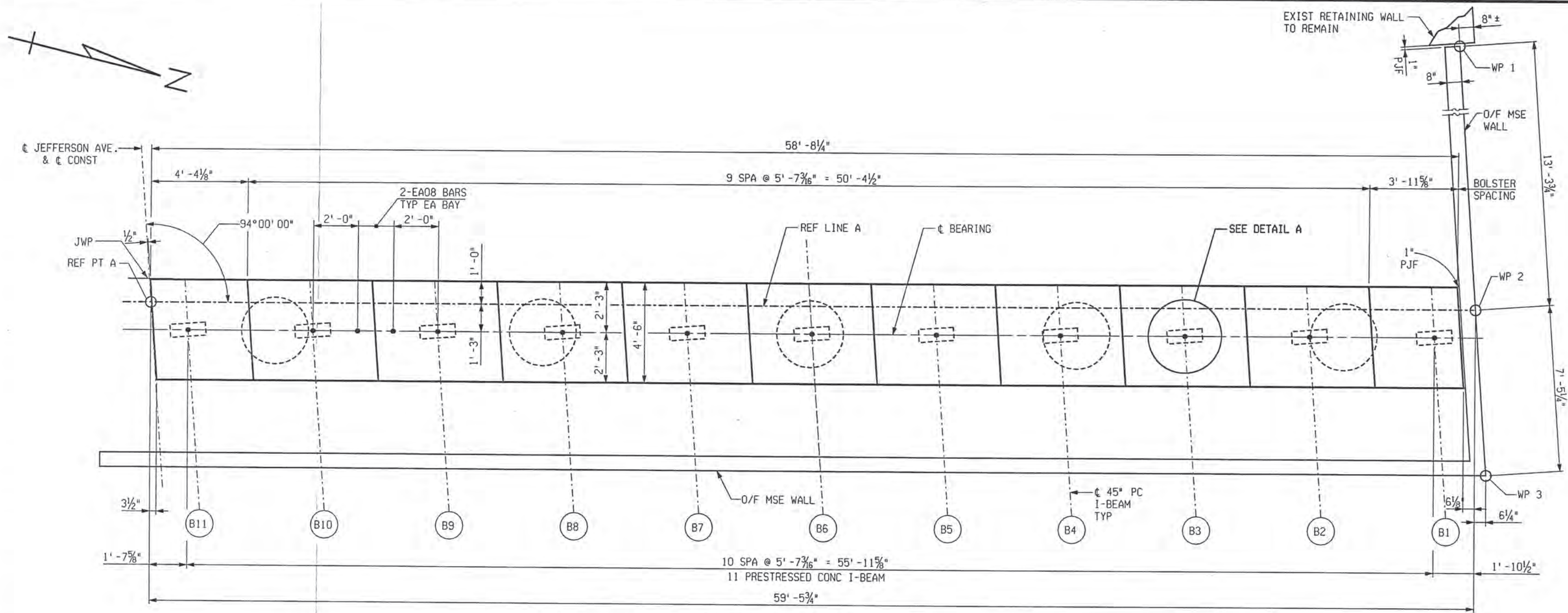


CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

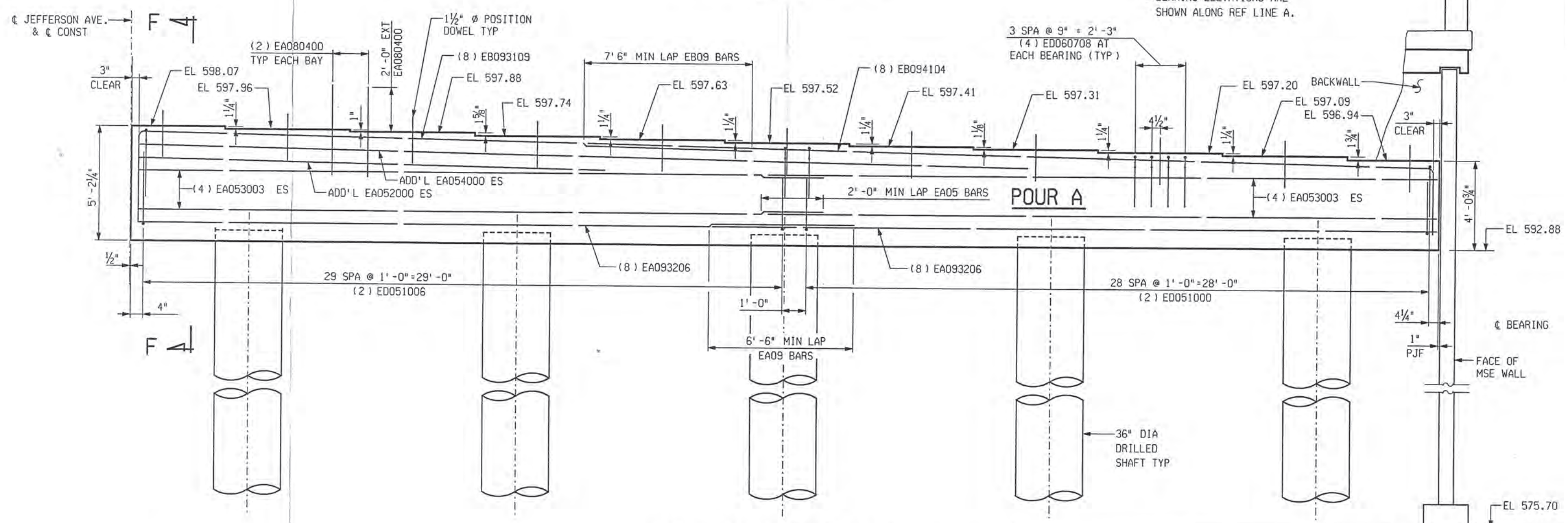
DRILLED SHAFT DETAILS JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	61 OF 80

DRAWN BY: DCP DATE: 2/10/2005 CHECKED BY: RJO DATE: 2/10/2005 FILE NAME: G:\35456d\Struct\CADD\jeffL_p02.dgn

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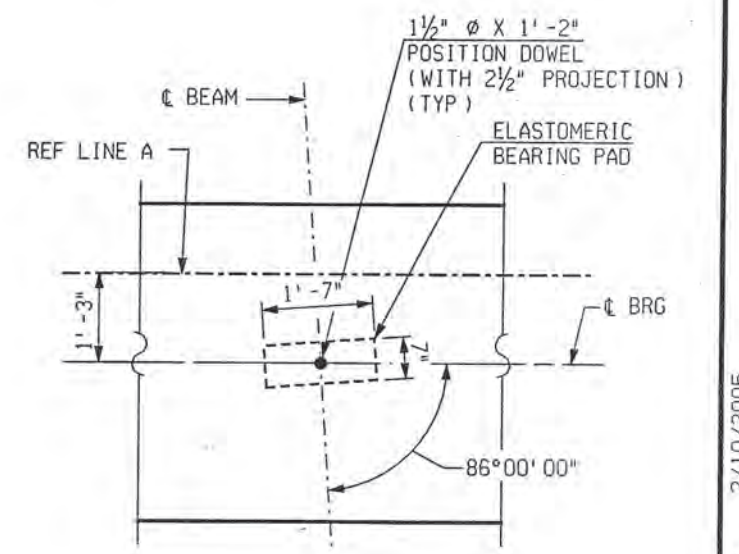


TOP PLAN STAGE-III
ABUTMENT A



ELEVATION STAGE-III
ABUTMENT A LOOKING WEST

REVISIONS			
NO.	DESCRIPTION	DATE	BY



DETAIL A

MISCELLANEOUS QUANTITIES		
182	Cyd	Conc, Grade D
7300	Sft	MSE Wall, Furnished
7300	Sft	MSE Wall, Installed
350	Ft	Leveling Pad, Concrete
275	Ft	MSE Wall Coping
1130	Sft	Joint Waterproofing

CONC, GRADE D				
POUR	A	B	C	D
ABUT A & B (CY)	45.5	45.3	45.1	45.7

- NOTES:**
- ALL SUBSTRUCTURE CONCRETE TO BE GRADE D.
 - EJWP DENOTES JOINT WATERPROOFING, EXPANSION
 - JWP DENOTES JOINT WATERPROOFING
 - NS DENOTES NEAR SIDE
 - FS DENOTES FAR SIDE
 - ES DENOTES EACH SIDE
 - O/F DENOTES OUTSIDE FACE
 - I/F DENOTES INSIDE FACE
 - LOW TEMPERATURE PROTECTION OF CONCRETE SHALL BE APPLIED ACCORDING TO SECTION 706.03 J. OF THE 2003 STANDARD SPECIFICATIONS FOR CONSTRUCTION LOW TEMPERATURE PROTECTION OF CONCRETE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE BID ITEM " Conc, Grade D".
 - DRILLING HOLES FOR POSITION DOWELS SHALL NOT BE PERMITTED.
 - FOR BEVEL AND MOLDING DETAILS SEE STANDARD PLAN B-103 SERIES
 - AT NO TIME PRIOR TO ERECTING THE BEAMS SHALL THE HEIGHT OF THE BACKFILL ON THE BACKSIDE OF THE ABUTMENT BE HIGHER THAN THE BACKFILL ON THE FRONT SIDE
 - FOR DRILLED SHAFT QUANTITIES, LAYOUT AND NOTES SEE DRILLED SHAFT DETAIL SHEETS



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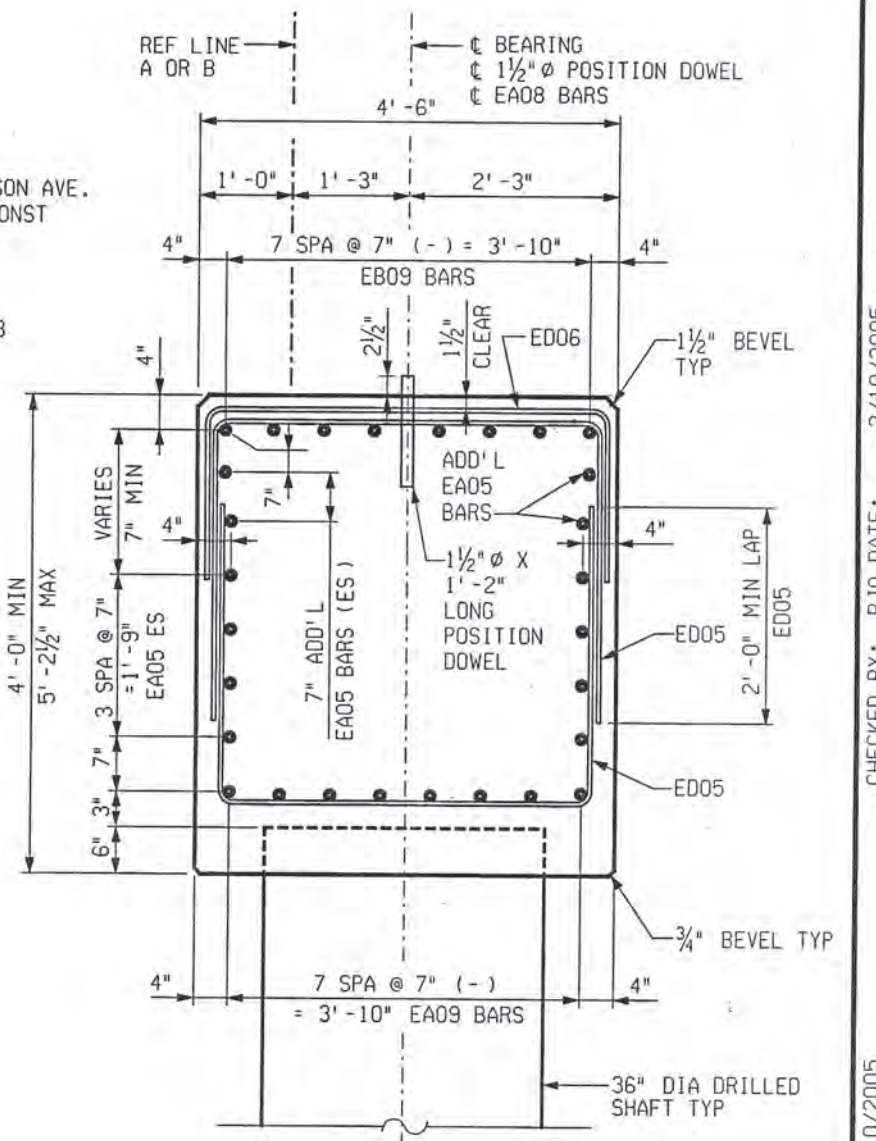
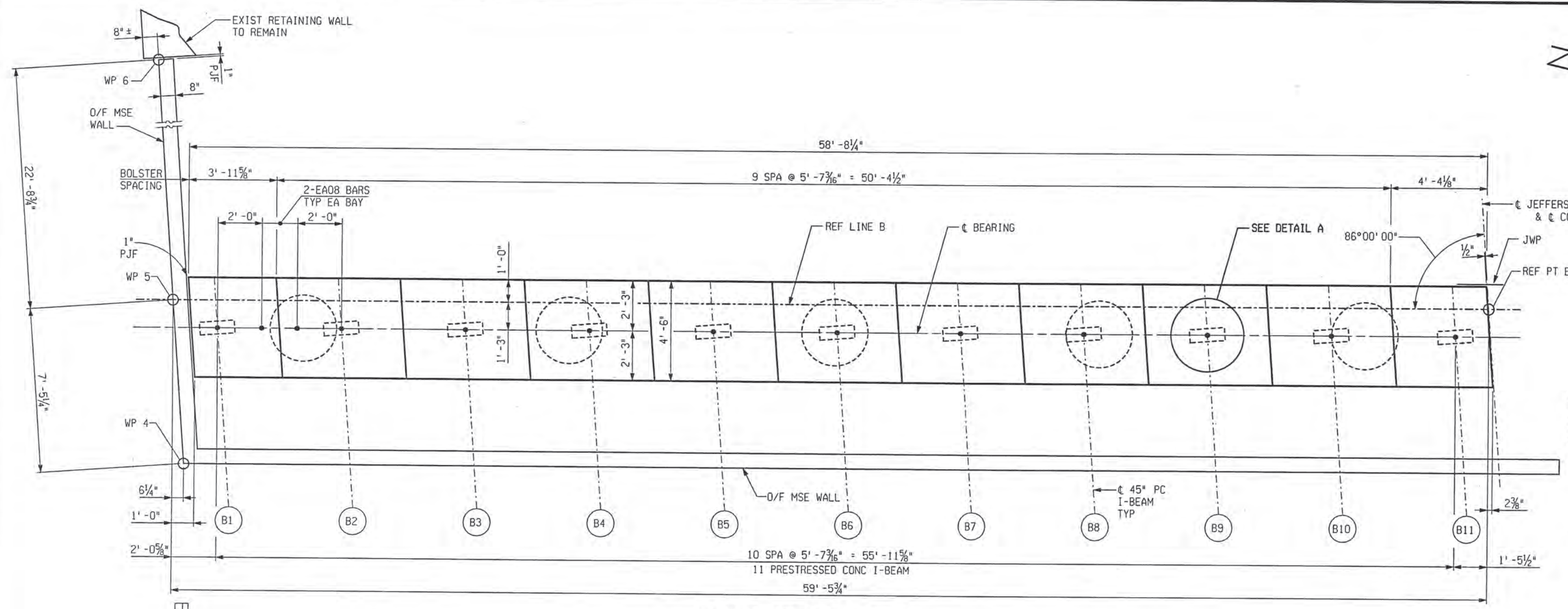
ABUTMENT DETAILS				
JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	.CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	62 OF 80

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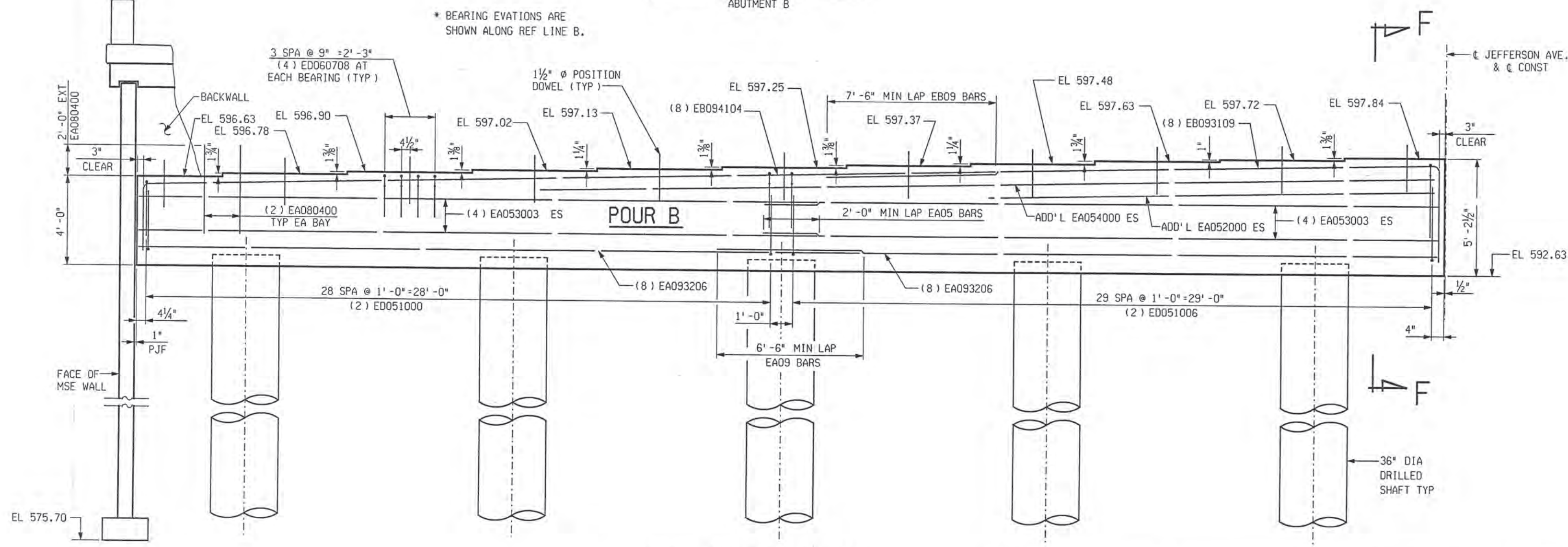
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REVISIONS			
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TOP PLAN STAGE-III
ABUTMENT B



ELEVATION STAGE-III
ABUTMENT B LOOKING EAST

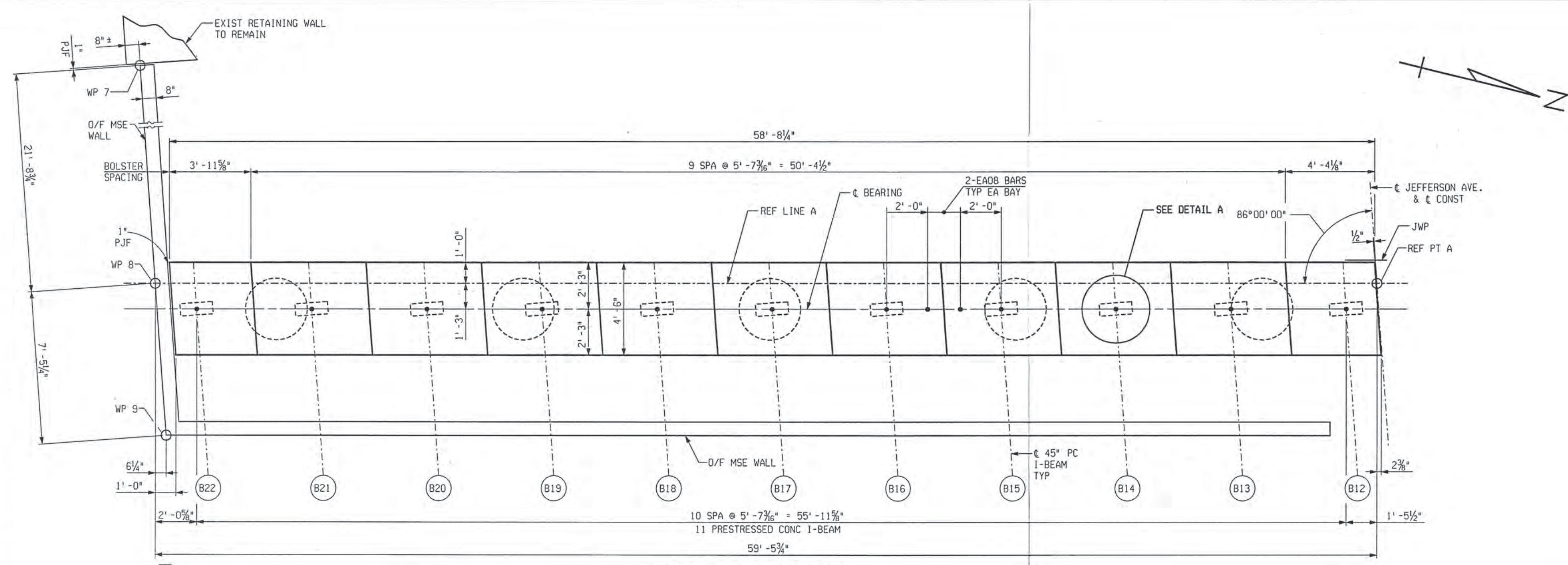


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ABUTMENT DETAILS				
JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	63 OF 80

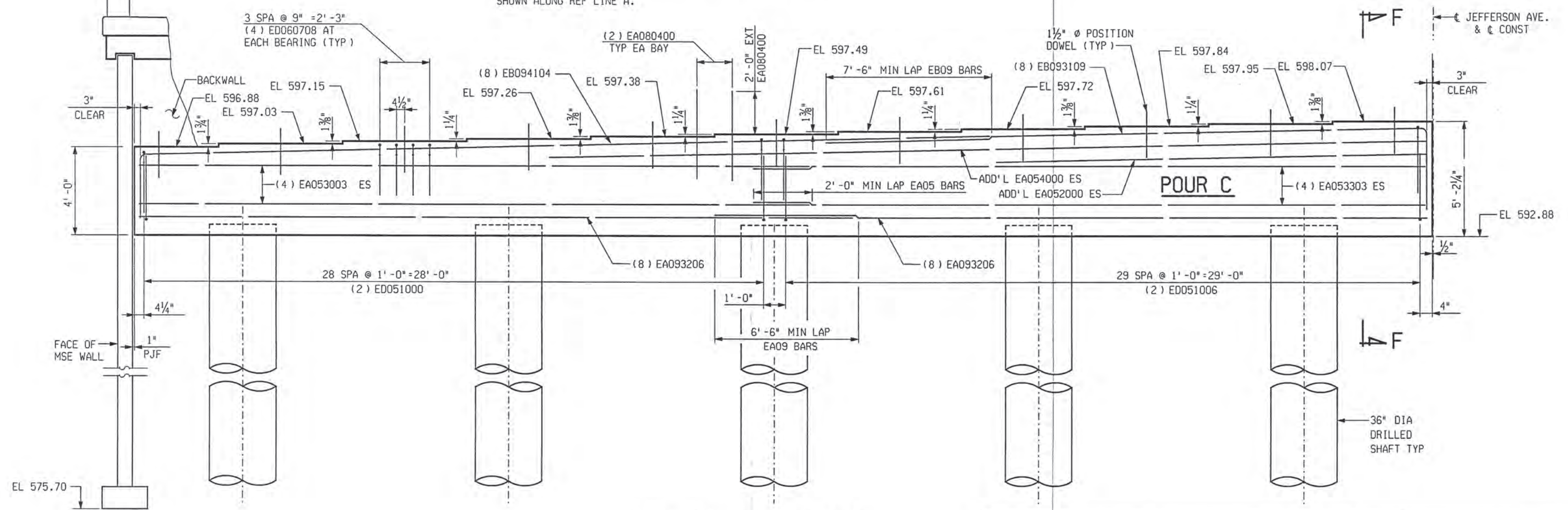
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REVISIONS			
NO.	DESCRIPTION	DATE	BY



TOP PLAN STAGE-IVA
ABUTMENT A

* BEARING ELEVATIONS ARE SHOWN ALONG REF LINE A.



ELEVATION STAGE-IVA
ABUTMENT A LOOKING WEST



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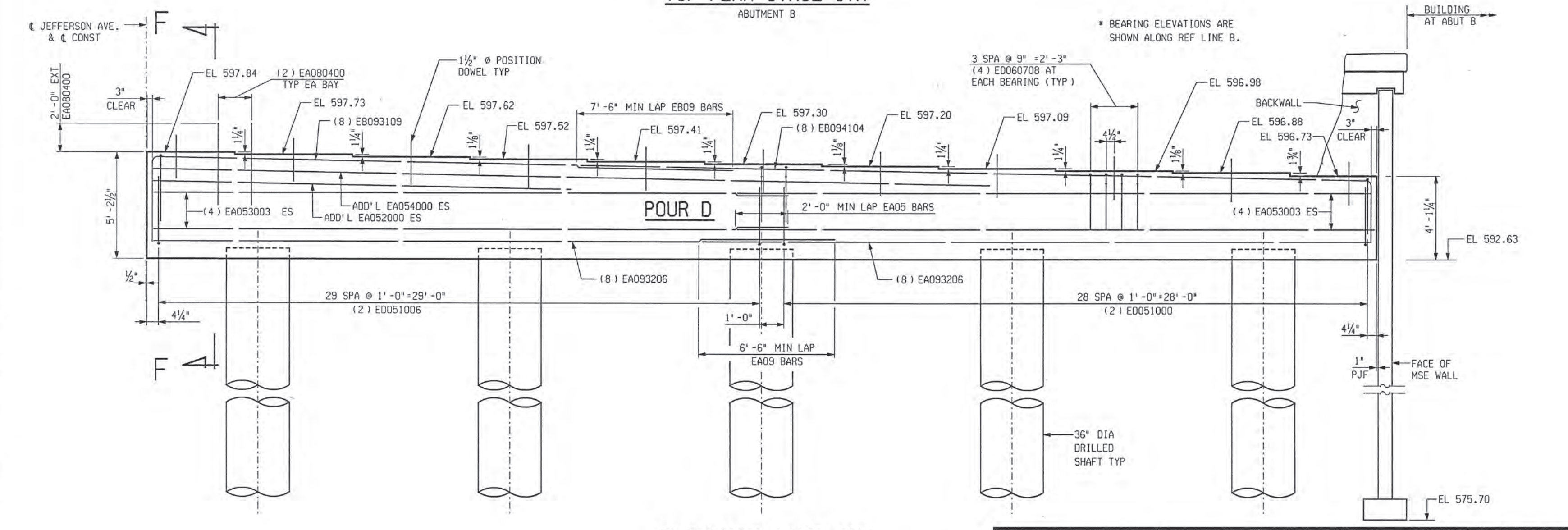
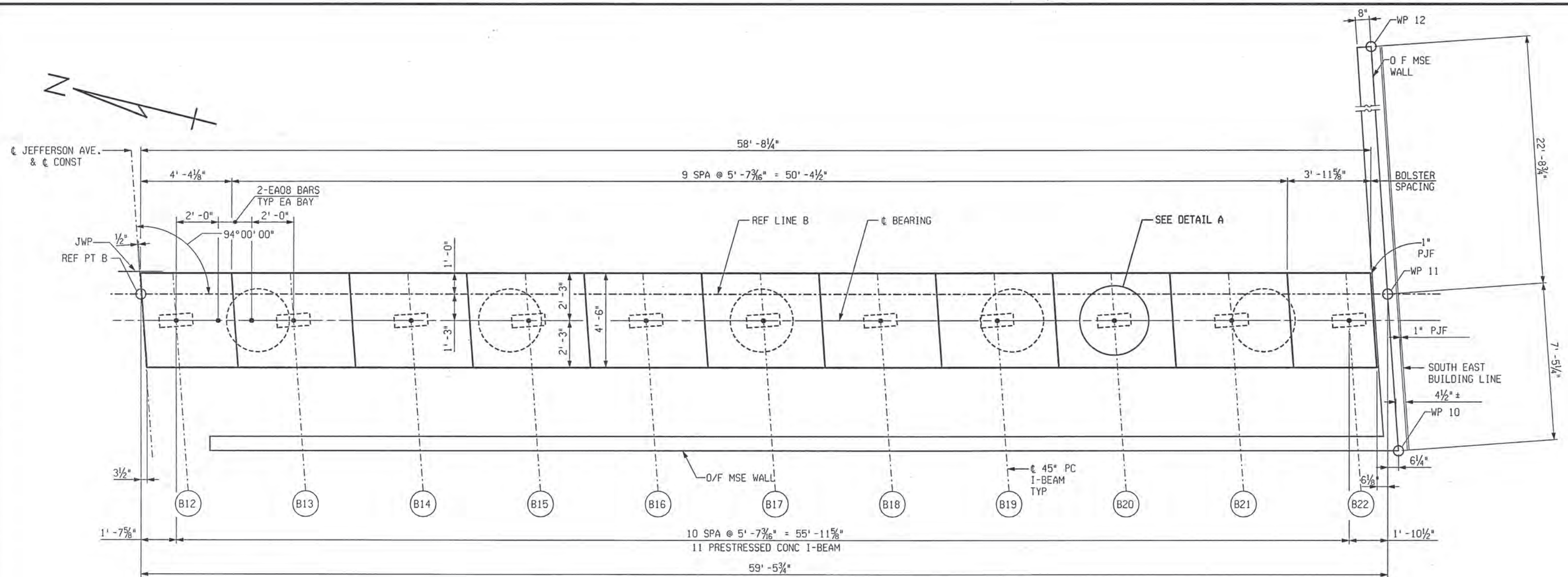
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ABUTMENT DETAILS				
JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
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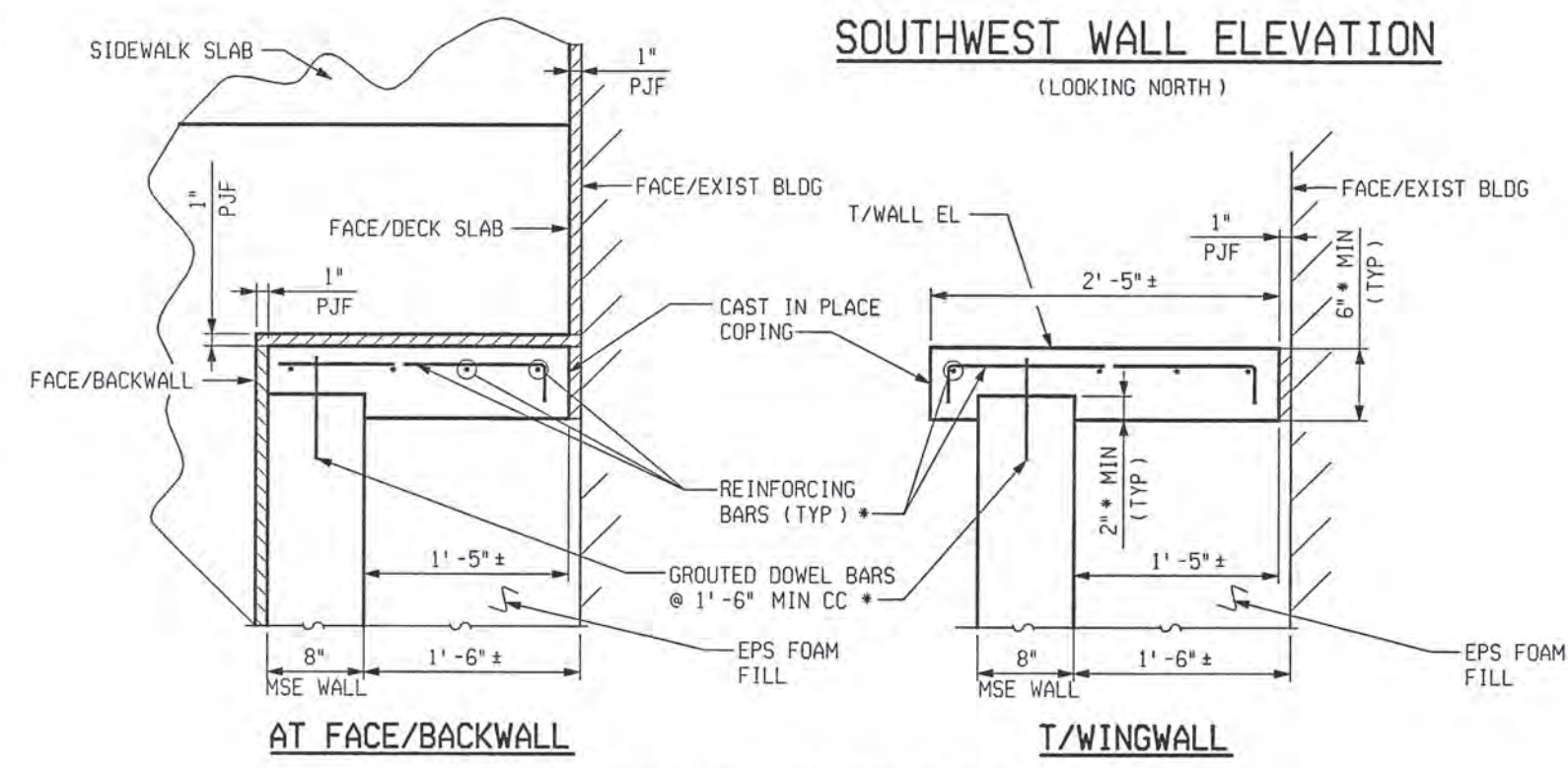
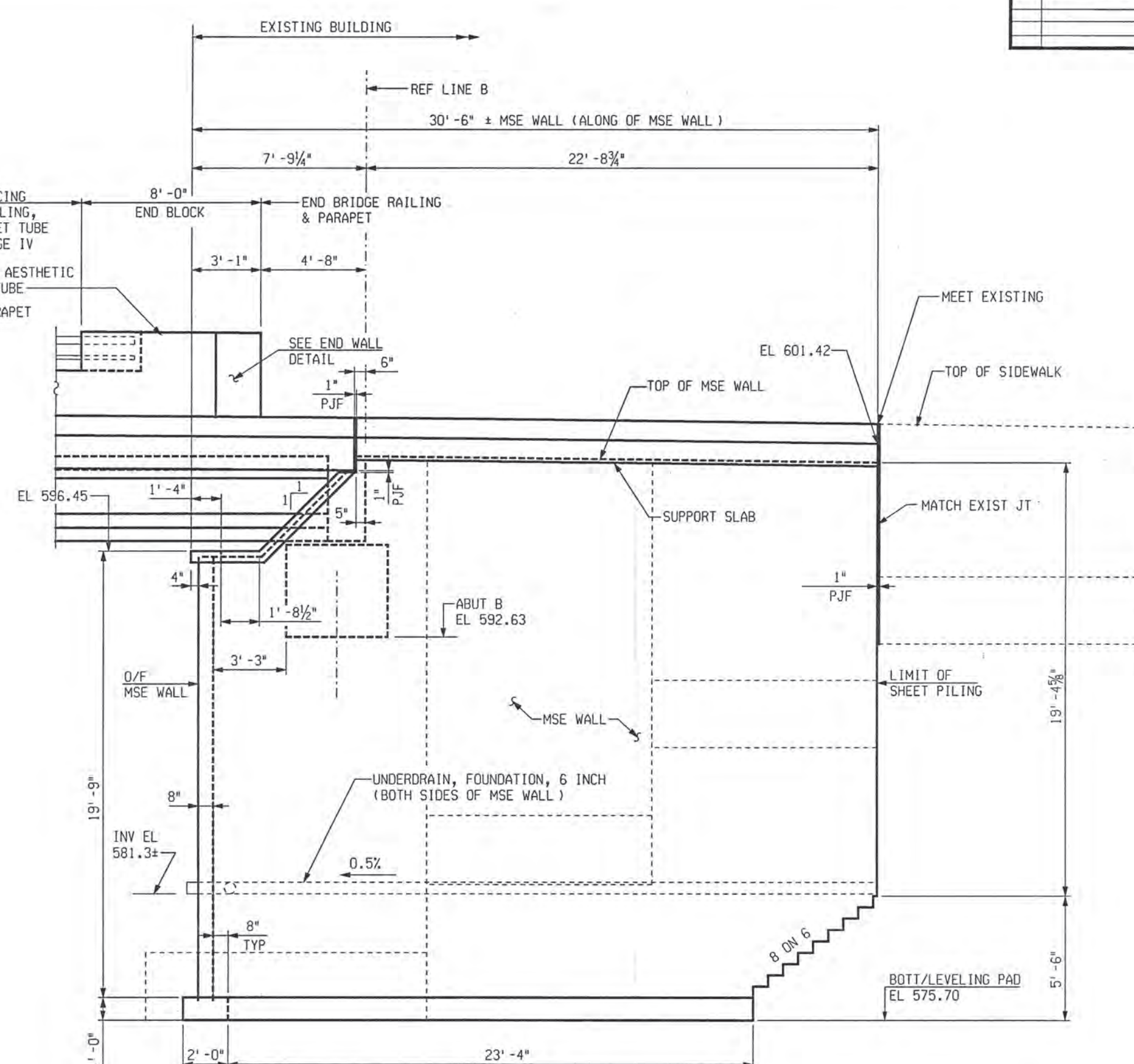
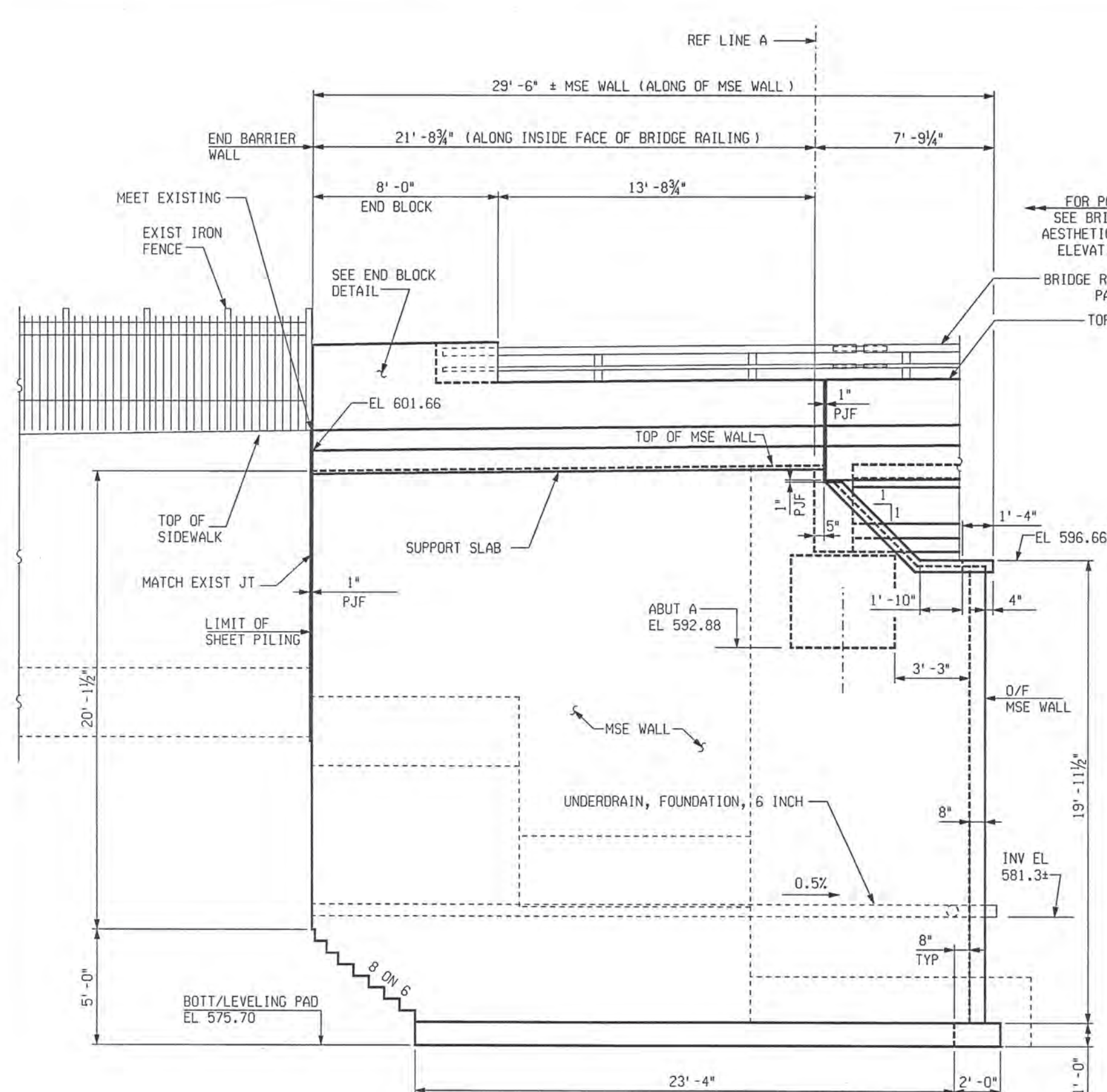
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ABUTMENT DETAILS				
JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	66 OF 80

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NOTE: DIMENSIONS, BARS SIZES AND SPACING TO BE AS RECOMMENDED BY MSE WALL MANUFACTURER

MSE WALL STAGE IV (SOUTH SIDE)



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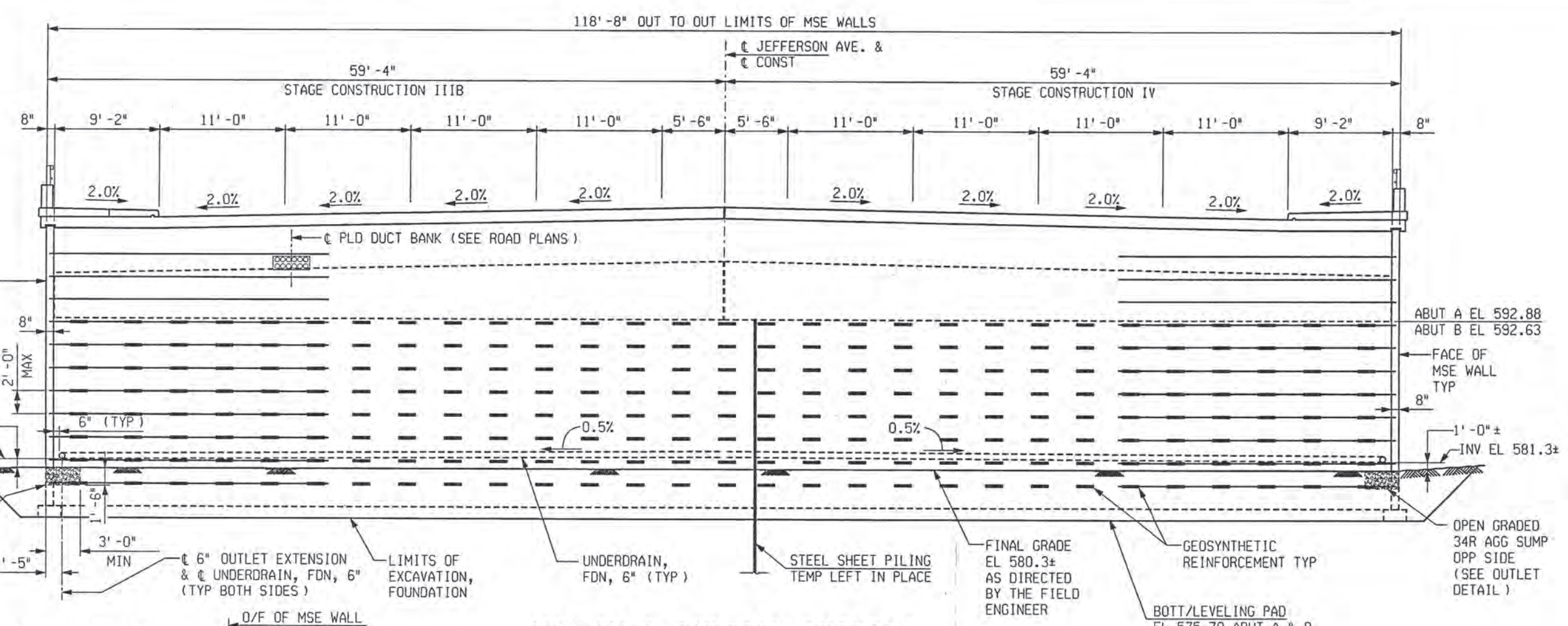
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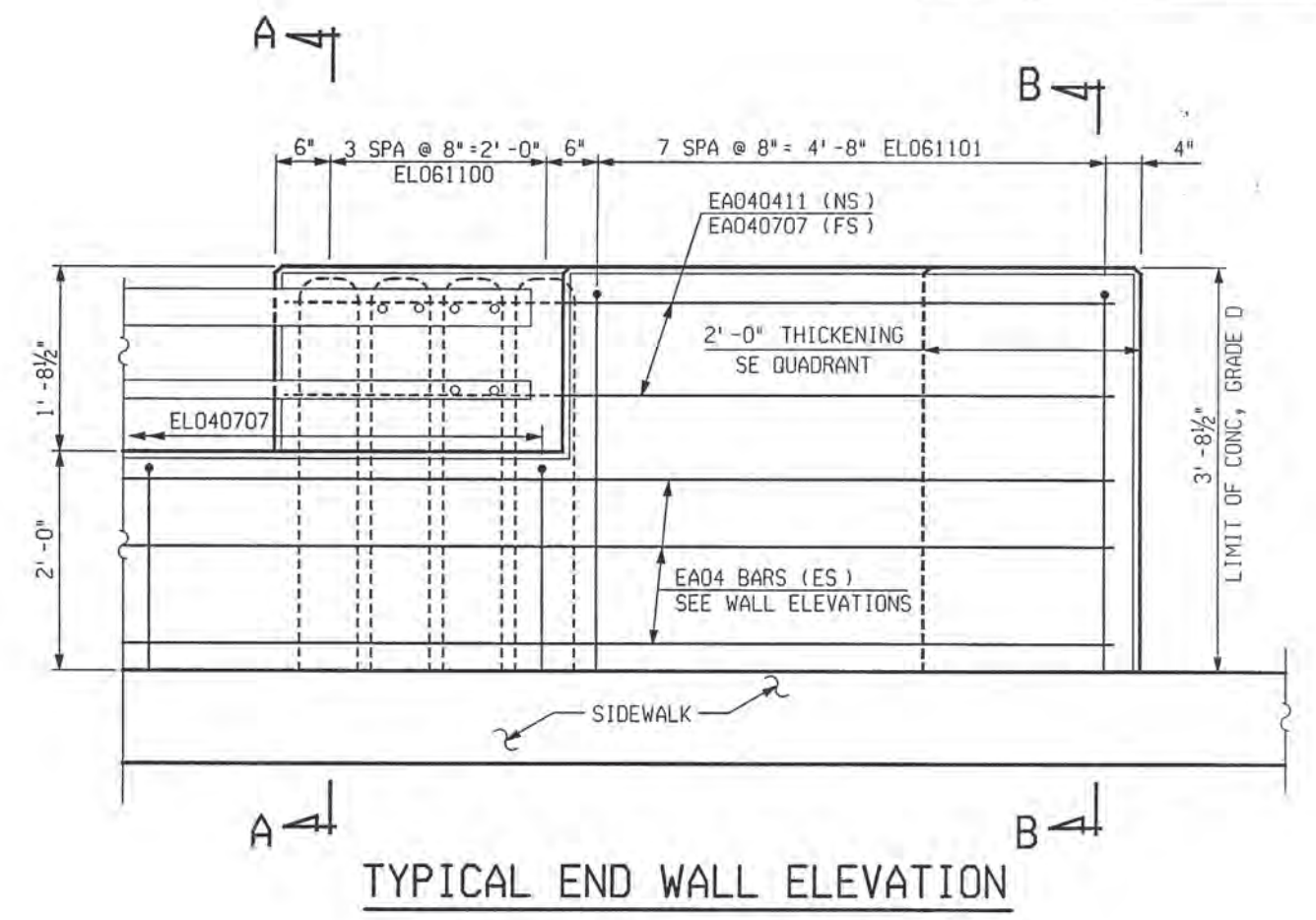
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REVISIONS			
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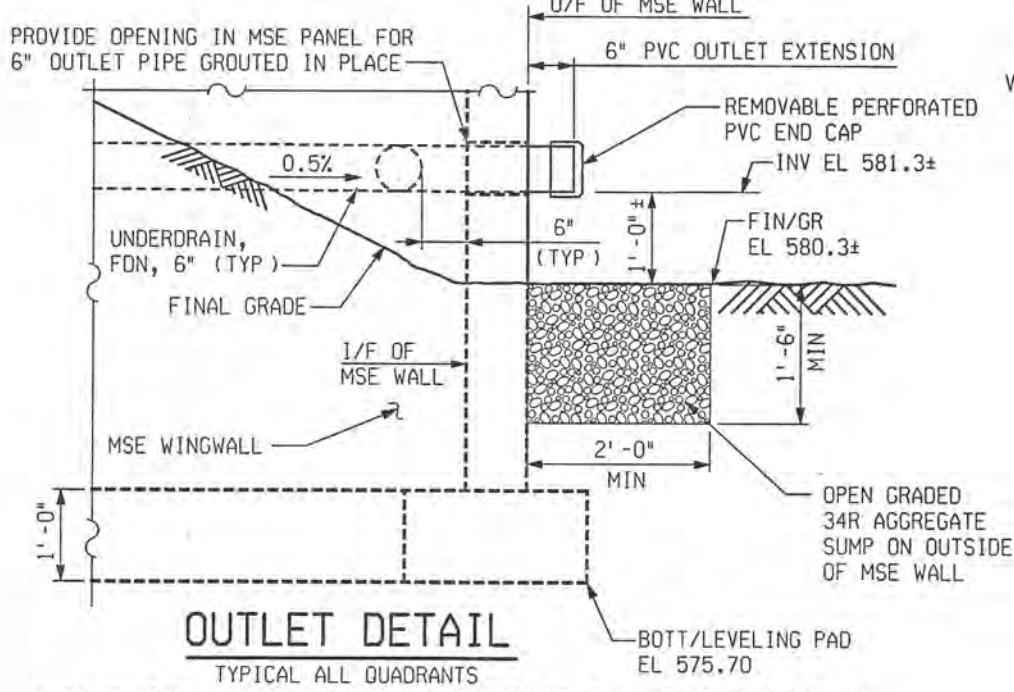
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MSE WALL TYPICAL SECTION
VIEW FROM BACKSIDE OF ABUTMENT A LOOKING UPSTATION

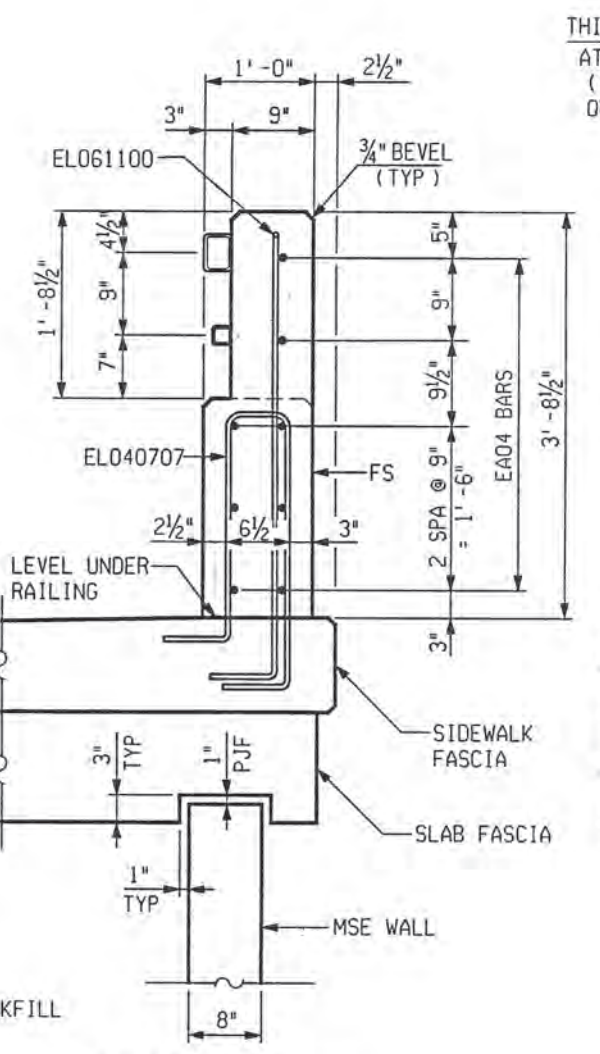


TYPICAL END WALL ELEVATION

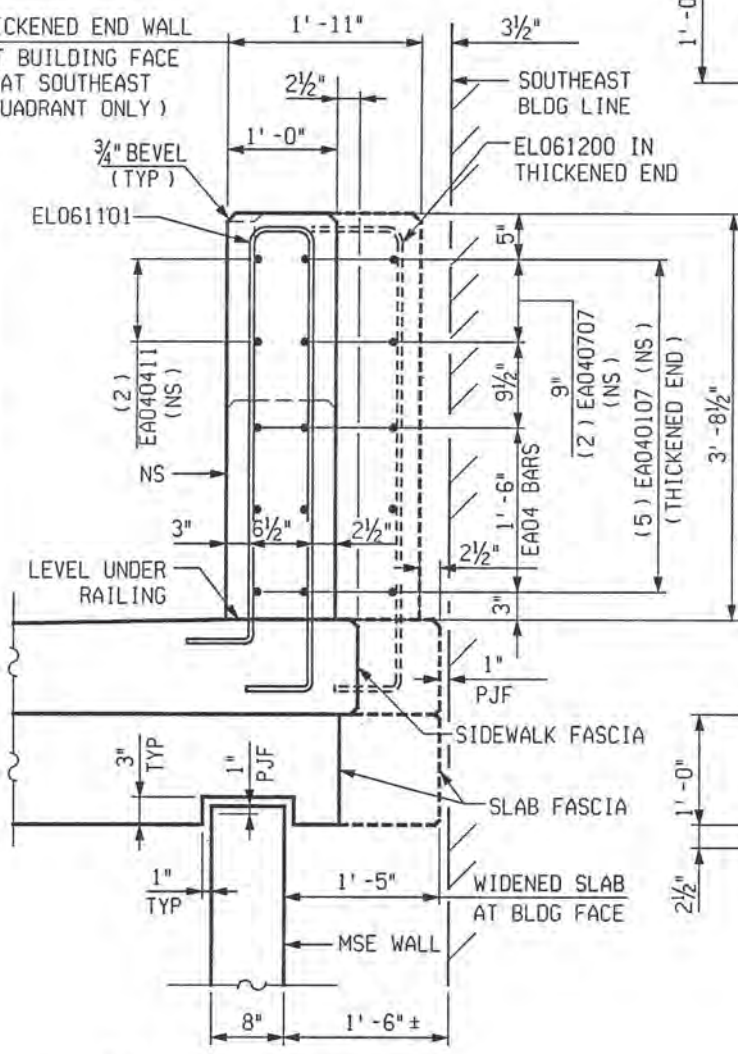


OUTLET DETAIL
TYPICAL ALL QUADRANTS

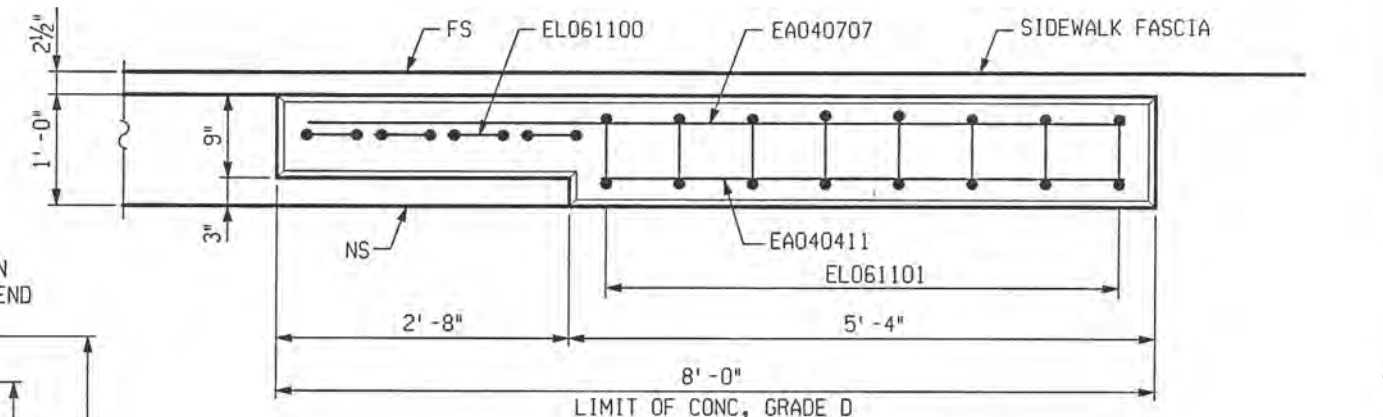
NOTE: COST OF 34R AGGREGATE, PERFORATED PVC END CAP, 6" PVC OUTLET EXTENSION AND GROUTING EXTENSION IN MSE WALL OPENING TO BE INCLUDED IN BID ITEM "Underdrain, Fdn, 6 inch". SEE MSE WALL SPECIAL PROVISIONS.



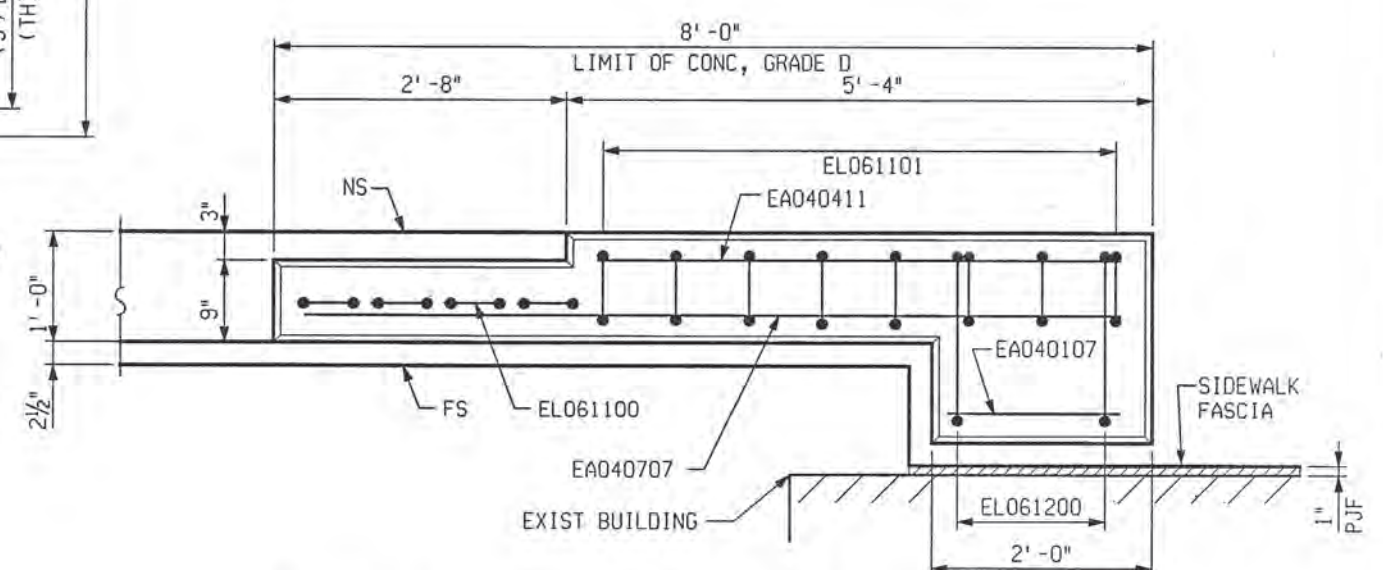
SECTION A-A
(TUBE CONNECTION AREA)



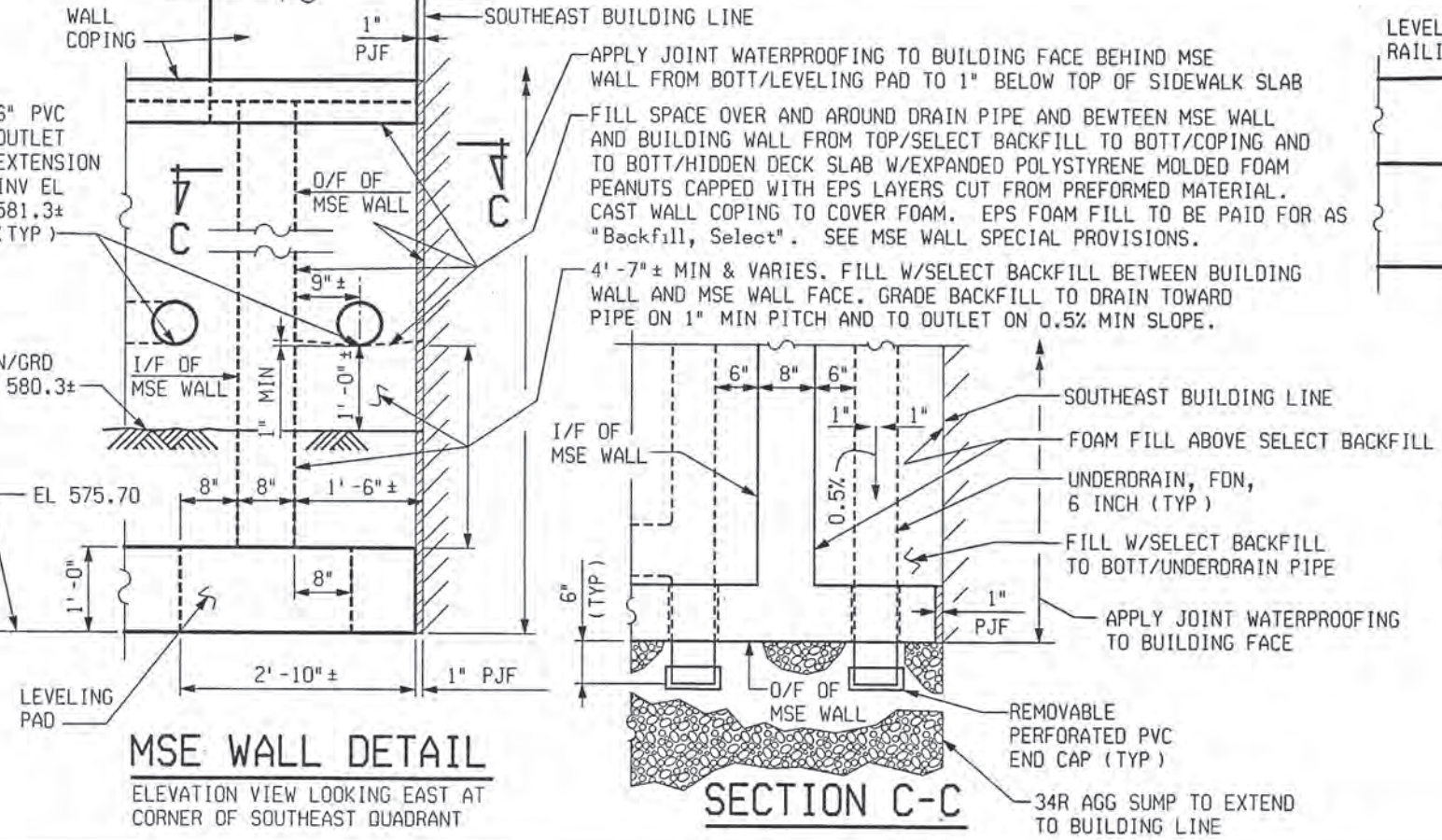
SECTION B-B
(FULL CONCRETE AREA)



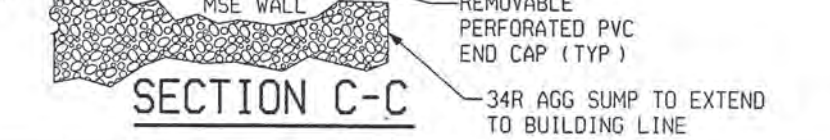
TYPICAL END WALL PLAN



END WALL PLAN AT SOUTHEAST QUADRANT



MSE WALL DETAIL
ELEVATION VIEW LOOKING EAST AT CORNER OF SOUTHEAST QUADRANT



SECTION C-C

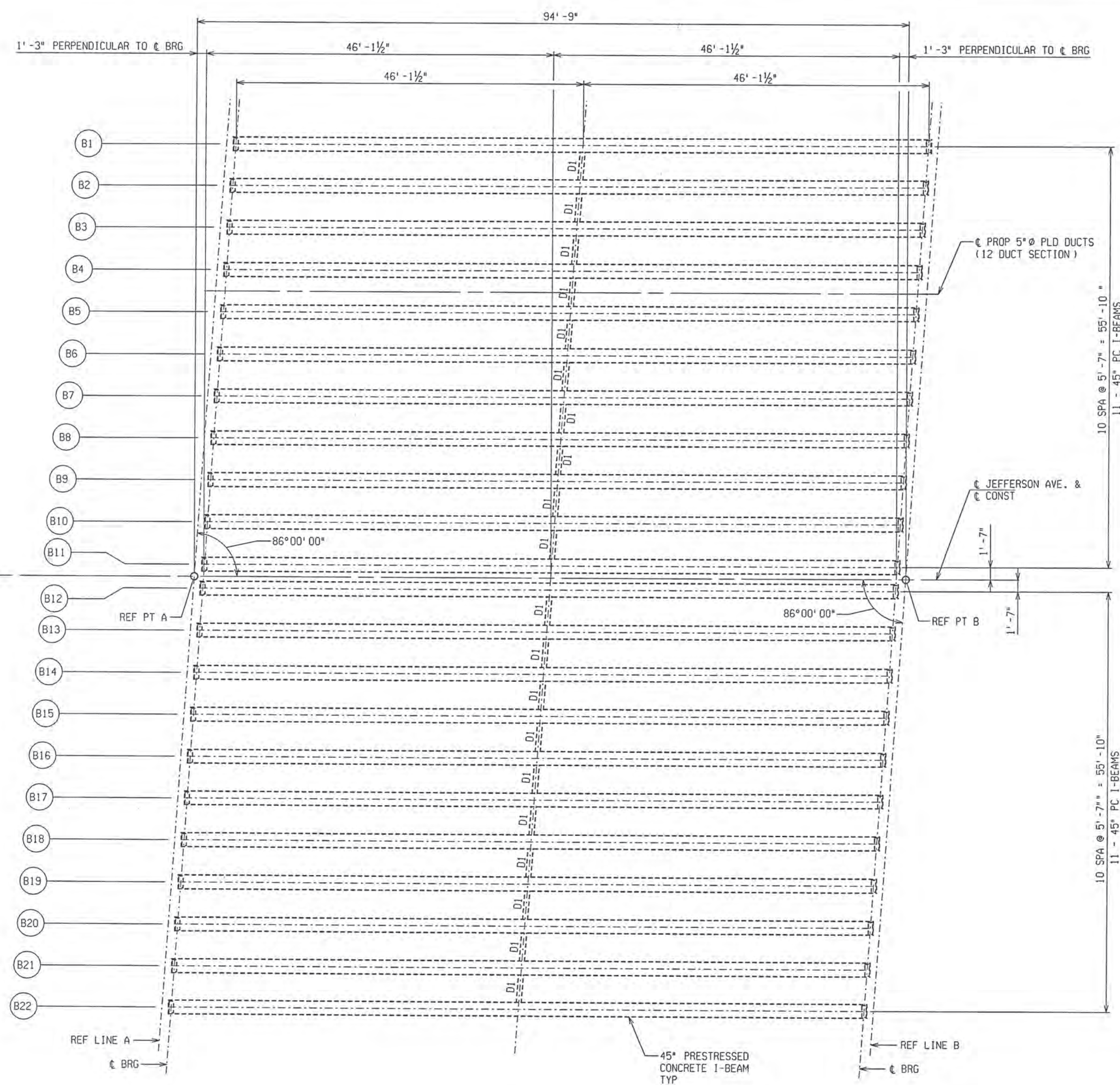


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ABUTMENT DETAILS JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
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ERECTION DIAGRAM

REVISIONS			
NO.	DESCRIPTION	DATE	BY

MISCELLANEOUS QUANTITIES			
41	Sft	Bearing, Elastomeric, 2 inch	
2046	Ft	Prest Conc I Beam, Furn, 45 inch	
2046	Ft	Prest Conc I Beam, Erect, 45 inch	

NOTES:

- PRESTRESSING STRANDS SHALL BE 0.6" NOMINAL DIAMETER MEETING THE REQUIREMENTS OF AASHTO M203 (ASTM A416), GRADE 270, LOW RELAXATION STRAND.
- PRESTRESSING STRANDS SHALL BE GIVEN AN INITIAL PRESTRESS OF 44,000 LBS.
- CONCRETE INSERTS SHALL BE 3/4" DIAMETER; RICHMOND, TYPE T2 OR TYPE TL2F; DAYTON SUPERIOR, TYPE B-1 HEAVY OR TYPE B-18; WILLIAMS, TYPE C 12 OR TYPE C-19; MEADOW STEEL, TYPE CT-2 OR TYPE CX-4; OR EQUAL. INSERTS SHALL BE CAST WITH THE BEAMS. FIELD INSTALLATION OF INSERTS IS NOT ALLOWED.
- END BLOCKS ARE OPTIONAL.
- TOTAL ESTIMATED CHANGE OF LENGTH OF BOTTOM FLANGE AT TRANSFER OF PRESTRESSED FORCE IS 3/4".
- THE ESTIMATED BEAM CAMBER AT RELEASE IS 2 1/4". THIS CAMBER IS DUE TO PRESTRESSED AND DEAD LOAD OF THE BEAM ONLY AND IS MEASURED IN THE ERECTED POSITION.
- THREADING OF REINFORCEMENT AND INSTALLATION INTO CONCRETE INSERTS IS INCLUDED IN THE BID ITEM "Prest Conc I-Beam, Furn, 45 inch".
- LIFTING DEVICES SHALL BE REMOVED AFTER BEAMS ARE ERECTED. REMOVAL IS INCLUDED IN THE BID ITEM "Prest Conc I-Beam, Erect, 45 inch".
- POSITION DOWELS SHALL BE HOT-DIP GALVANIZED ACCORDING TO AASHTO M232. POSITION DOWELS ARE INCLUDED IN PAYMENT FOR PRESTRESSED CONCRETE BEAMS.
- BEAMS IN SPAN 1 MAY BE Laterally UNSTABLE. PRECAUTIONS SHALL BE TAKEN TO INSURE THAT BEAMS ARE NOT DAMAGED DURING HANDLING AND TRANSPORTATION.

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 DATE: 2/10/2005
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 DATE: 2/10/2005
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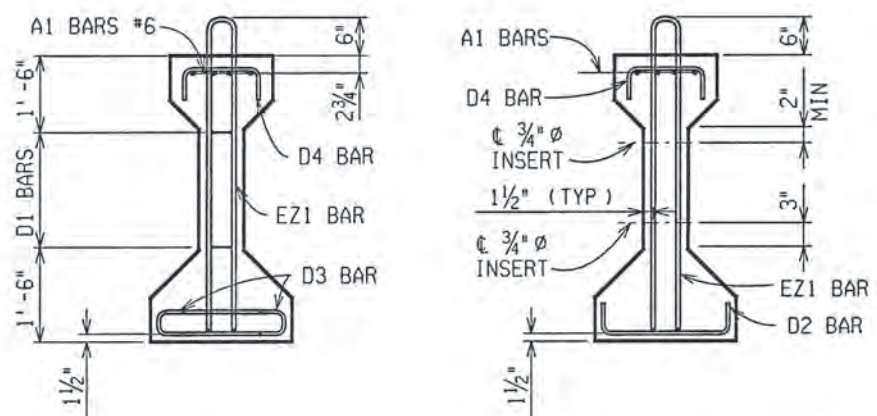
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PRESTRESSED CONCRETE I-BEAM DETAILS JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	69 OF 80

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

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2/10/2005
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NO.	DESCRIPTION	DATE	BY



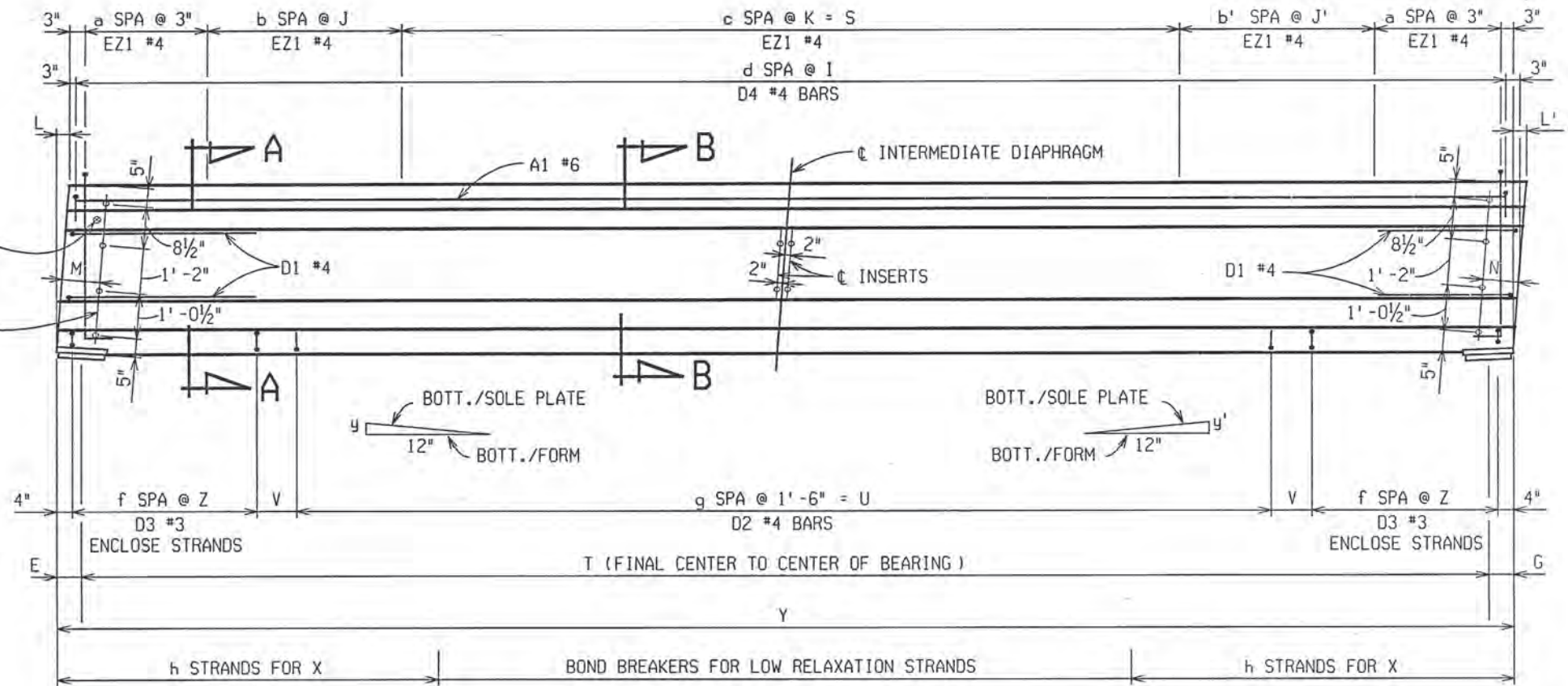
BAR DIMENSIONS		
BAR	DIM.	BEAM TYPE
A1#6	A	Y-3"
D1#4	A	4'-9"
	B	3 1/2"
D2#4	A	5"
	B	1'-7 1/2"
D3#3	A	1'-4"
	B	5 1/2"
D4#4	A	5"
	B	1'-0"
E21#4	A	4'-1 1/2"
	B	4 3/4"

BEAM DIMENSIONS		
SPAN	TYPE	III
NO. REQ.	a	6
	b	3
	b'	3
	c	68
	d	74
	E	4 1/2"
	f	5
	g	53
	G	4 1/2"
	I	1'-3"
	J	9"
	J'	9"
	K	1'-3"
	L	0
	L'	0
	M	9"
	N	9"
	P	OPTIONAL
	S	85'-0"
	T	92'-3"
	U	79'-6"
	V	1'-5"
	Y	93'-0"
	Z	1'-0"
APPROX. WEIGHT 27.1 TONS		
T MEASURED ALONG BEAM		

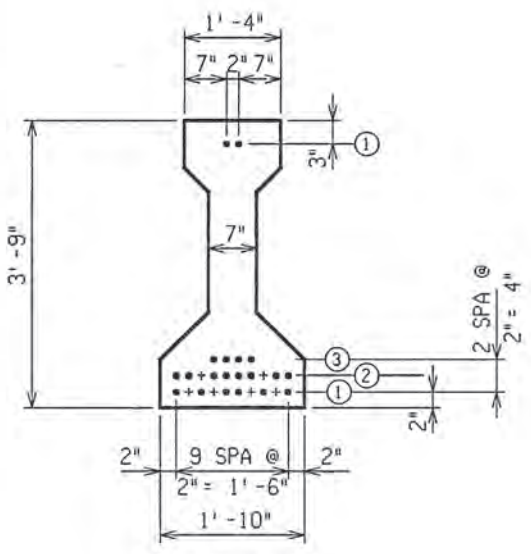
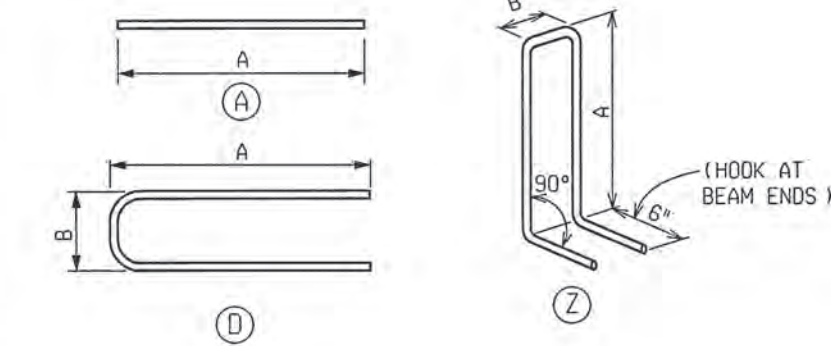
BOND BREAKERS			
SPAN	ROW	h	X
I	1	2	8'-0"
	1	2	18'-0"
	2	2	2'-0"

SOLE PLATE TILT TABLE		
SPAN I		
ABUT A	ABUT B	
y	y'	
0	0	

"y" AND "y'" ARE TYPICAL ALL BEAMS.

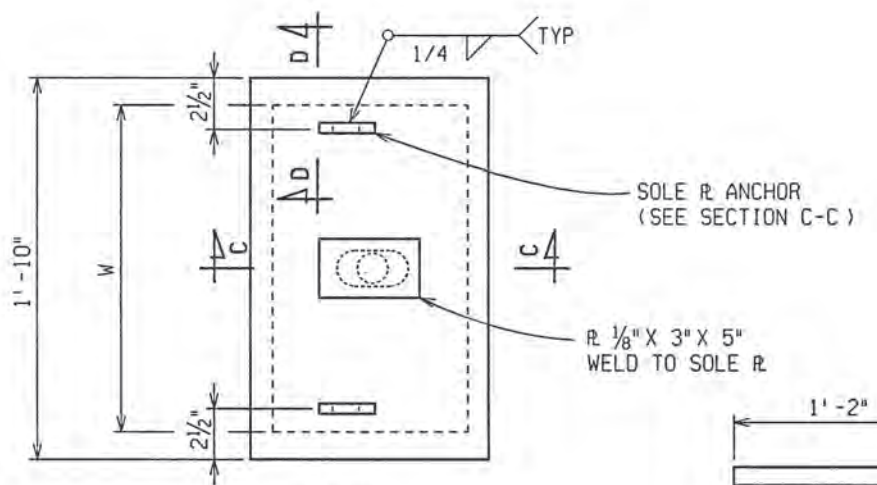


ELEVATION
L AND L' SHOWN ARE POSITIVE

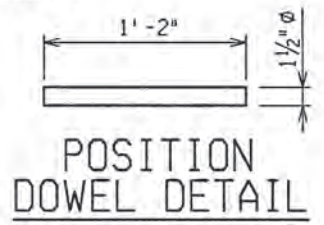


TYPE III
(45° BEAM)
SECTION A-A

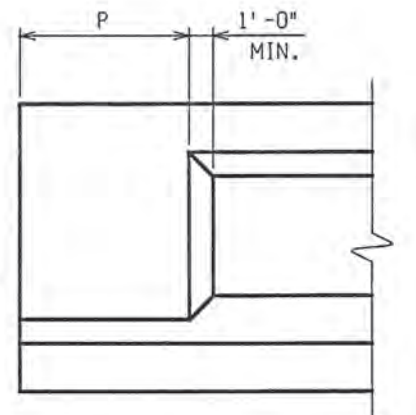
SHOWING STRAND ARRANGEMENT AT END FACE
● LOW RELAXATION STRAND LOCATION
+ DEBONDED STRAND FOR LOW RELAXATION STRAND



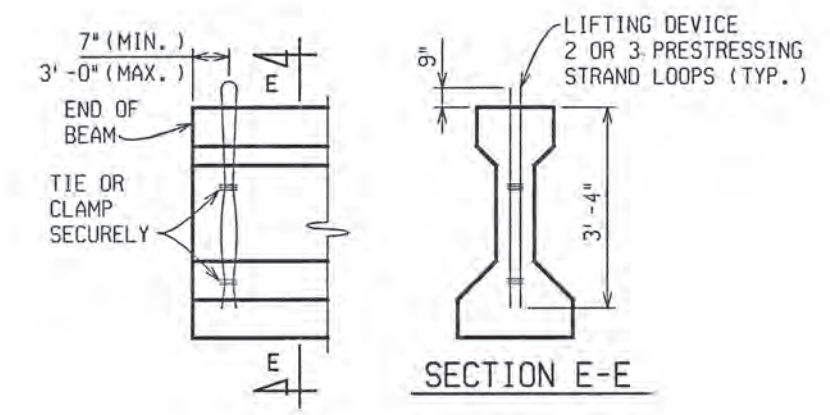
PLAN BEARING DETAILS



POSITION DOWEL DETAIL

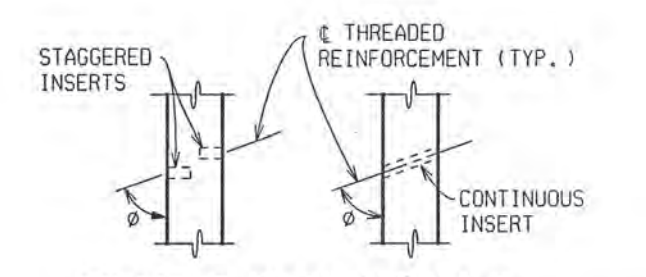


END BLOCK DETAIL
MAXIMUM LENGTH "P" FOR OPTIONAL END BLOCK IS 3'-0"



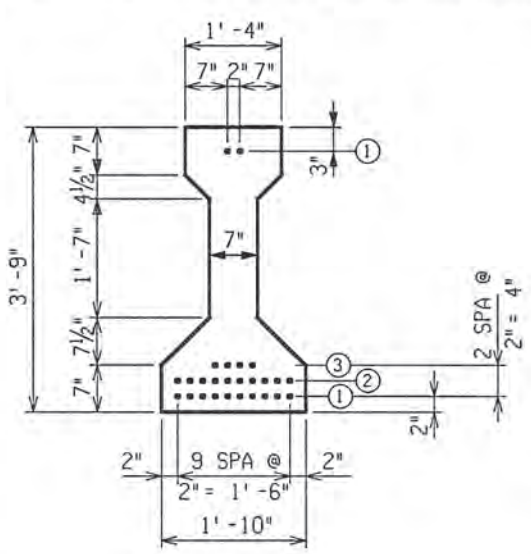
LIFTING DEVICE

PRESTRESSING STRAND LIFT DEVICE CAPACITY		
STRAND SIZE	NO. OF STRANDS	ALLOWABLE BEAM WT.
3/8"	2	20 TONS
7/16"	2	27 TONS
1/2"	2	36 TONS
3/8"	3	30 TONS
7/16"	3	40.5 TONS
1/2"	3	54 TONS



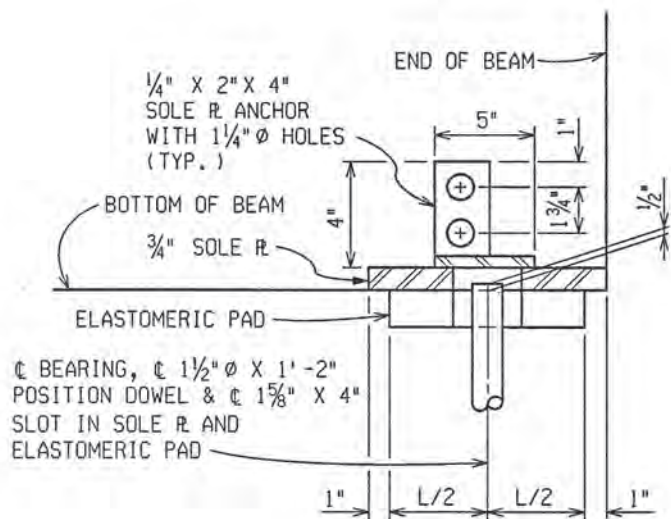
CONCRETE INSERT DETAILS

CONCRETE INSERTS AT ENDS OF BEAM SHALL BE STAGGERED AND AT MIDSPAN MAY BE CONTINUOUS OR STAGGERED. THREADED REINFORCEMENT FOR STAGGERED INSERTS SHALL BE BENT TO THE REQUIRED ANGLE PRIOR TO INSTALLATION. BENT REINFORCEMENT MAY REQUIRE INSTALLATION BEFORE BEAM IS ERECTED. OMIT INSERTS ON OUTSIDE OF FASCIA BEAMS EXCEPT AT ABUTMENTS WITH DEPENDENT BACKWALLS.

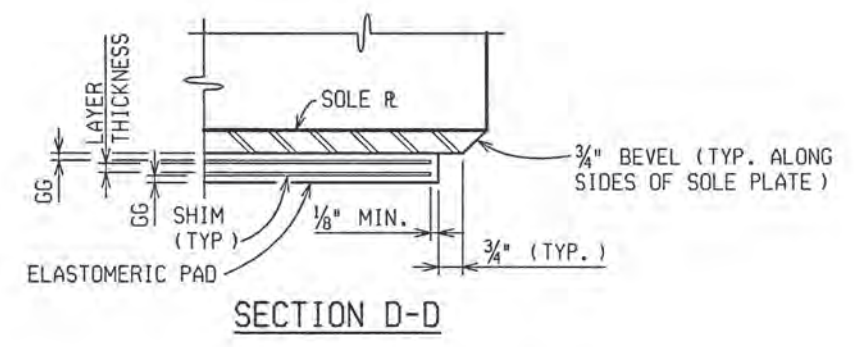


TYPE III
(SPAN I)
SECTION B-B

SHOWING STRAND ARRANGEMENT AT MIDSPAN
● LOW RELAXATION STRAND LOCATION



SECTION C-C



SECTION D-D

SPAN	TYPE	STRAND LOCATION TABLE										TOTAL NUMBER	REQUIRED CONCRETE COMPRESSIVE STRENGTH (PSI)							
		MIDSPAN (SECTION B-B)					END FACE (SECTION A-A)						28 DAY	AT RELEASE						
		BOTTOM	TOP	BOTTOM	TOP	BOTTOM	TOP													
I	III	10	10	4	0	0	2	0	0	10	10	4	0	0	2	0	0	26	7000	5500

ELASTOMERIC PAD AND SHIM DIMENSIONS	SPAN I	
	ABUT A	ABUT B
NOMINAL THICKNESS	2"	2"
(L) PARALLEL TO BEAM	7"	7"
(W) PERPENDIC. TO BEAM	19"	19"
GG	3/16"	3/16"
LAYER	4 @ 1/4"	4 @ 1/4"
SHIMS	5 @ 1/8"	5 @ 1/8"



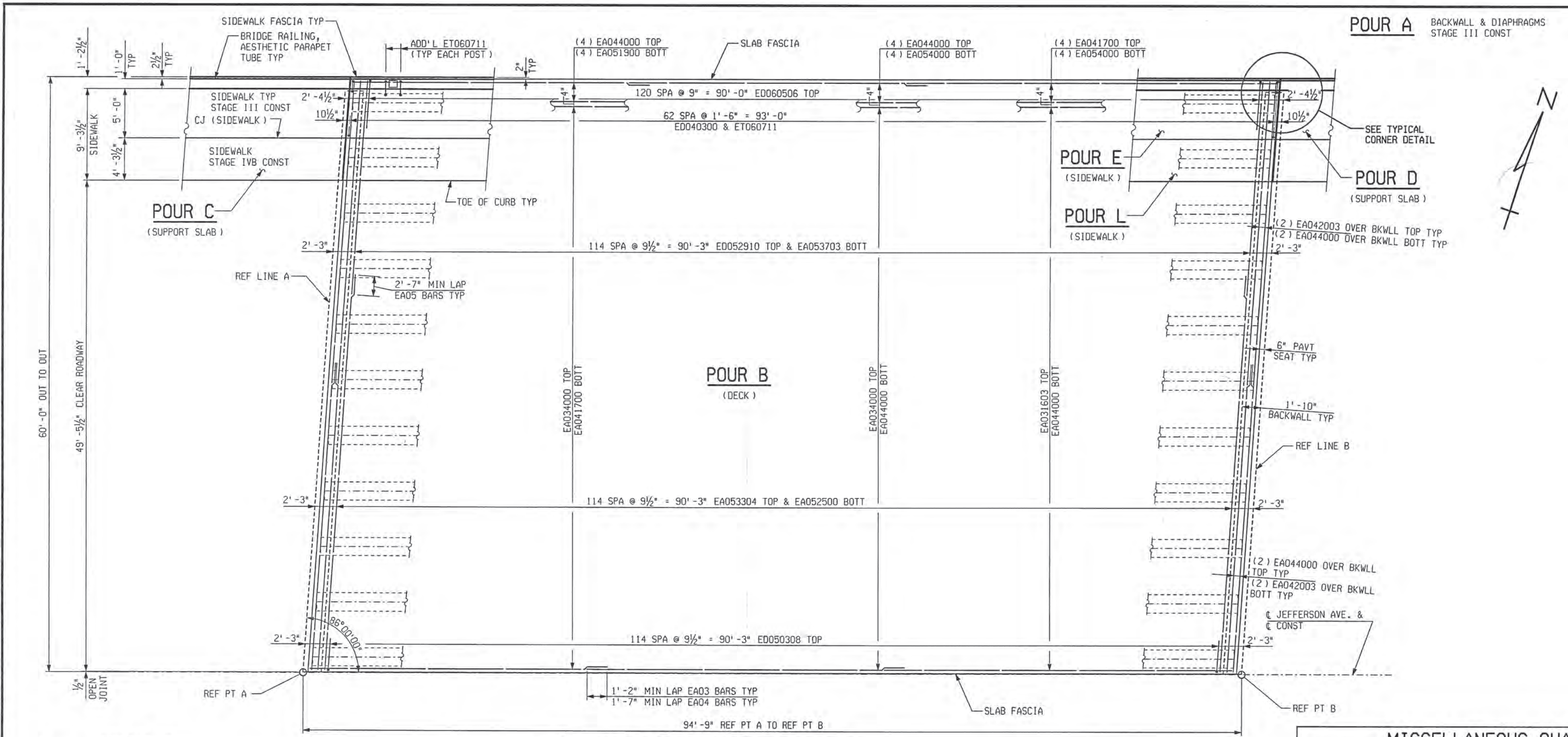
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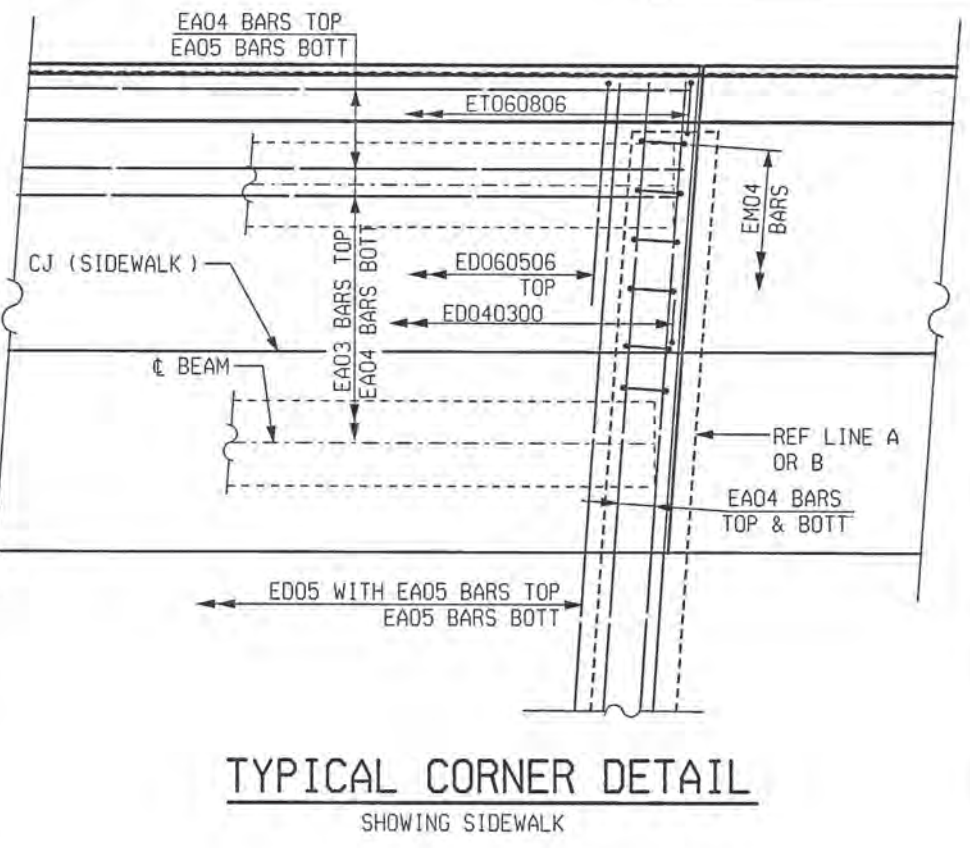
PRESTRESSED CONCRETE I-BEAM DETAILS
JEFFERSON AVE OVER DEQUINDRE CUT

DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	70 OF 80

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REVISIONS			
NO.	DESCRIPTION	DATE	BY



PLAN OF DECK STAGE-III & IVB

STAGE-III & IVB

SUPERSTRUCTURE CONC, NIGHT CAST		SUPERSTRUCTURE CONC	
POUR	CUBIC YARDS	POUR	CUBIC YARDS
B	171.0	A	29.2
		C	10.9
		D	10.6
		E	26.4
		L	15.9

NOTES:

I/F DENOTES INSIDE FACE
 O/F DENOTES OUTSIDE FACE
 EJWP DENOTES JOINT WATERPROOFING, EXPANSION.
 JWP DENOTES JOINT WATERPROOFING.
 FOR DETAILS OF NAME PLATES, MOLDING AND BEVELS, SEE STANDARD PLAN B-103 SERIES.
 ALPHABETICAL DESIGNATION OF DECK POURS IS NOT TO BE CONSTRUED AS A POUR SEQUENCE.
 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 ITEMS "Superstructure Conc, Night Casting" AND "Superstructure Conc".
 DO NOT POUR DECK CONCRETE UNTIL DIAPHRAGM CONCRETE ATTAINS A COMPRESSIVE STRENGTH OF 3000 PSI.
 THE DECK POURS ARE DESIGNATED AS NIGHT POURS AND THEREFORE SUBJECT TO THE RESTRICTIONS OF SECTION 706.03 I OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
 THE CONTRACTOR MAY USE METAL STAY IN PLACE FORMS. IF USED, ELIMINATING THE POLYSTYRENE AND FILLING THE CORRUGATIONS WITH CONCRETE IS PROHIBITED.
 FOR NAME PLATE LOCATION, SEE GENERAL PLAN OF STRUCTURE SHEET.

MISCELLANEOUS QUANTITIES

342	Cyd	Superstructure Conc, Night Casting
186	Cyd	Superstructure Conc
5	Cyd	Conc, Grade D
1	LS	Superstructure Conc, Form, Finish, and Cure (S01 of 82-22-02)
1	LS	Superstructure Conc, Form, Finish, and Cure, Night Casting (S01 of 82-22-02)
342	Cyd	Bridge Ltg, Oper and Maintain
1	LS	Bridge Ltg, Furn and Rem (S01 of 82-22-02)
231	Ft	Bridge Railing, Aesthetic Parapet Tube
360	Sft	Joint Waterproofing
141	EA	Reinforcement, Mechanical Splice
141	EA	Adhesive Anchoring of Vertical Bar, 1/2 inch

SLIP FORMING OF BRIDGE RAILING, AESTHETIC PARAPET TUBE WILL NOT BE ALLOWED.
 THE CONTRACTOR IS TO PROVIDE A SAWED JOINT 1/2" DEEP BY 1/8" WIDE (MINIMUM) IN THE TOP OF SLAB AT TRANSVERSE CONSTRUCTION JOINT. THE JOINT IS TO BE SAWED WITHIN 4 HOURS OF REMOVING THE CURING AND IS TO BE FILLED WITH HOT-POURED JOINT SEALANT OR COLD-APPLIED JOINT SEALANT, SINGLE COMPONENT TYPE IN ACCORDANCE WITH STANDARD SPECIFICATION SUBSECTION 914.04. INCLUDED IN THE BID ITEM "Superstructure Conc, Form, Finish, and Cure, Night Casting".
 POUR APPROACH SLABS FROM EXPANSION LOCATION TOWARD REFERENCE LINE.
 SEE STANDARD PLAN B-25 SERIES FOR RAILING DETAILS NOT SHOWN.
 POST SPACING MEASURED ALONG INSIDE FACE OF BRIDGE RAILING.
 EDGE OR *GROOVE* DENOTES EDGING OR GROOVING WITH AN APPROVED TOOL.



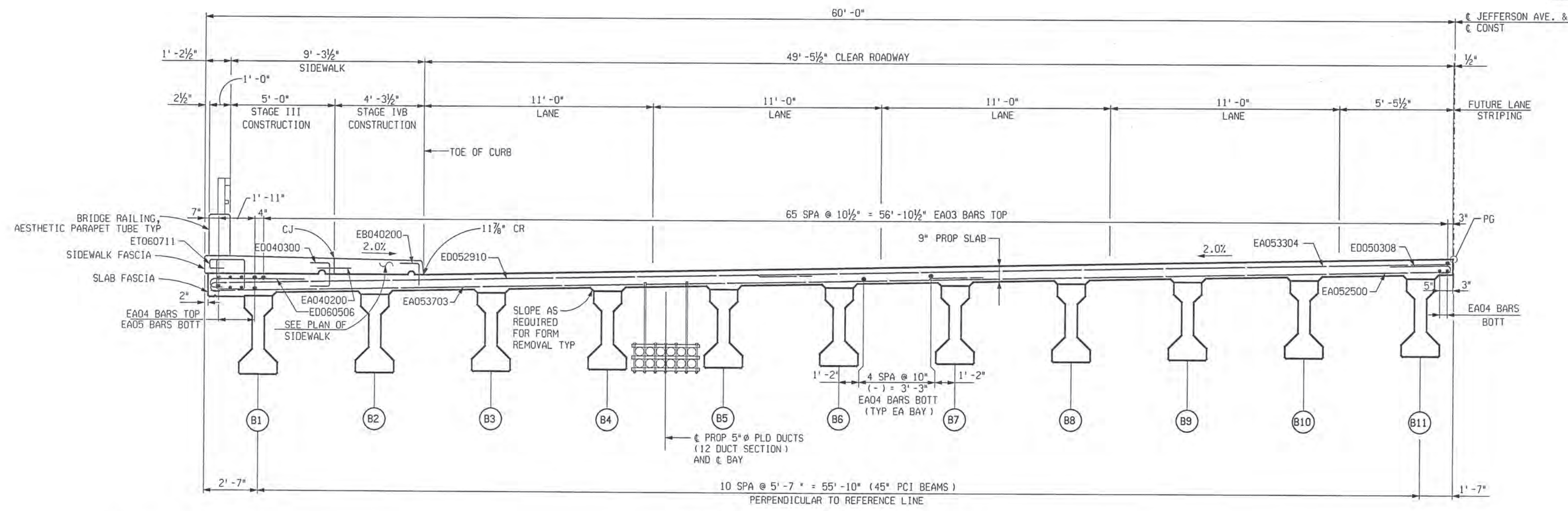
PARSONS BRINCKERHOFF, INC.
 535 Griswold Street
 Buhl Building, Suite 1525
 Detroit, MI 48226
 313-963-5700

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION

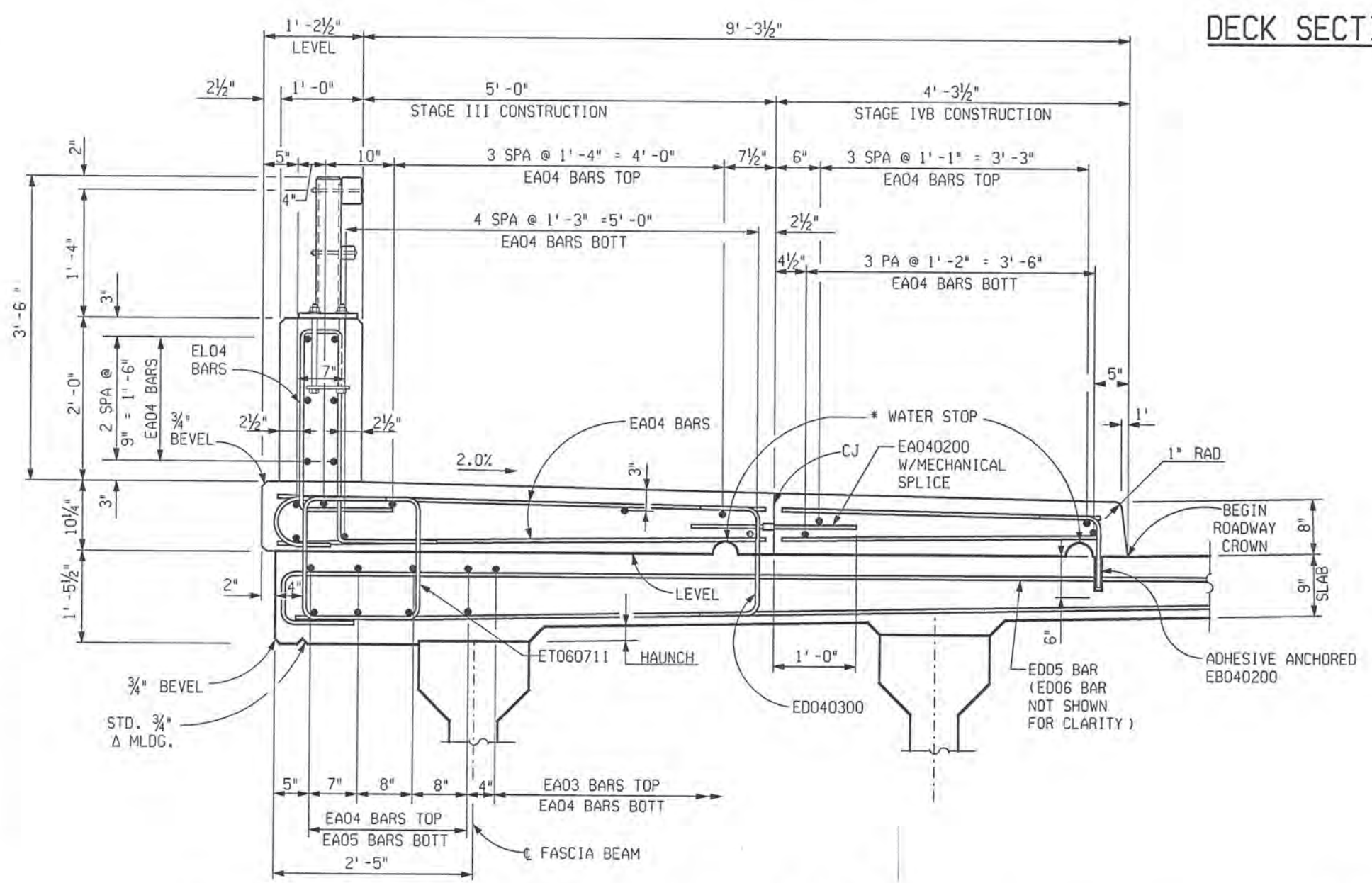
SUPERSTRUCTURE DETAILS JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	71 OF 80

2/19/05 PM
 2/10/2005
 CHECKED BY: RJO DATE:
 2/10/2005
 DRAWN BY: DCP DATE:
 2/10/2005
 FILE NAME: G:\35458d\Struct\CADD\jeff_rk01.dgn

REVISIONS			
NO.	DESCRIPTION	DATE	BY



DECK SECTION STAGE III & IVB
LOOKING UPSTATION



BRIDGE RAILING, AESTHETIC PARAPET TUBE TYP
SHOWING NORTH SIDEWALK

* 2" HIGH 4" LONG (±). FORMING NOT REQUIRED.



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313-663-5760

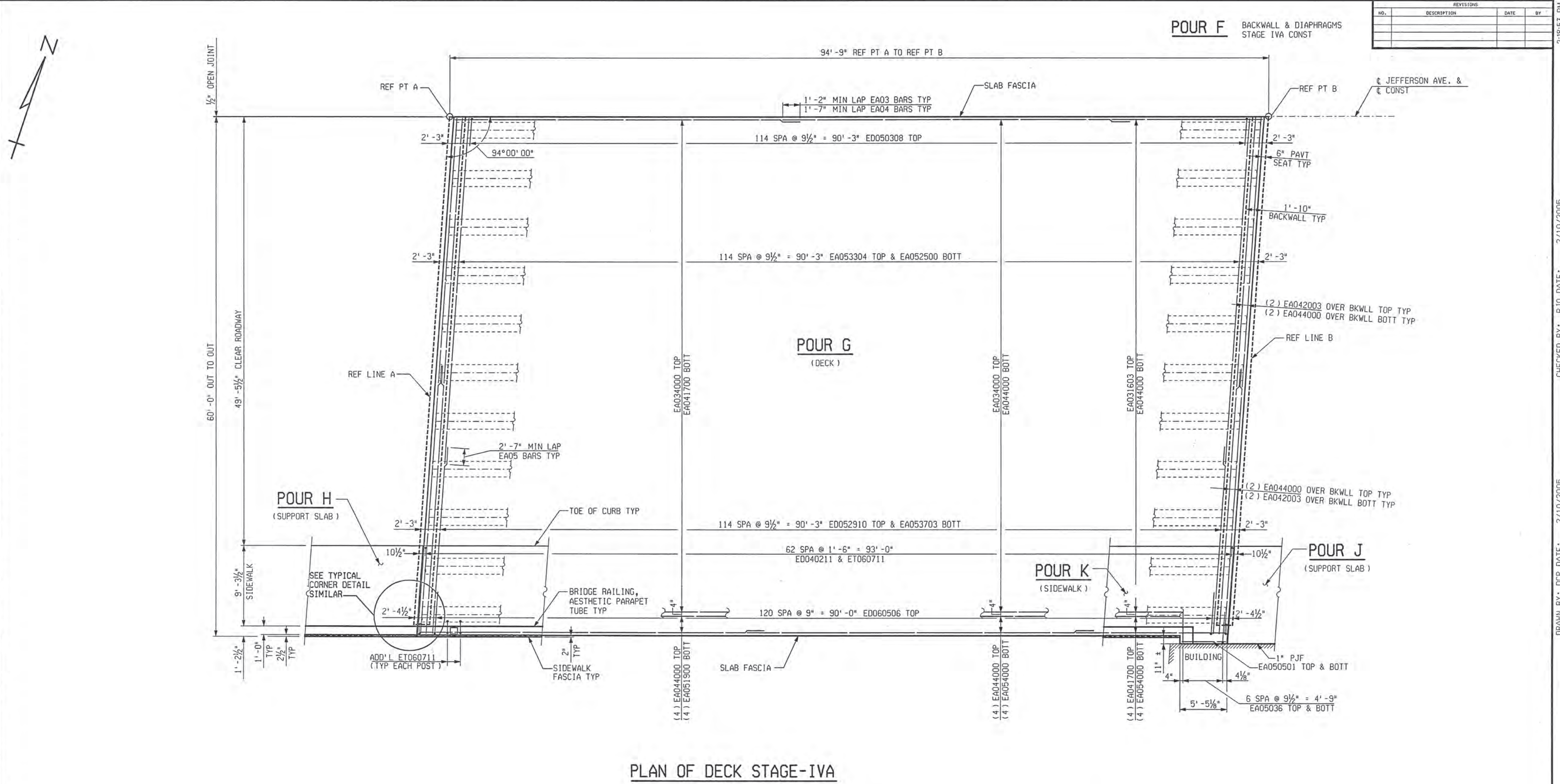
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

SUPERSTRUCTURE DETAILS				
JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	72 OF 80

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REVISIONS			
NO.	DESCRIPTION	DATE	BY

PLAN OF DECK STAGE-IVA

STAGE-IVA

SUPERSTRUCTURE CONC, NIGHT CAST		SUPERSTRUCTURE CONC	
POUR	CUBIC YARDS	POUR	CUBIC YARDS
G	171.0	F	29.2
		H	10.2
		J	11.8
		K	41.8



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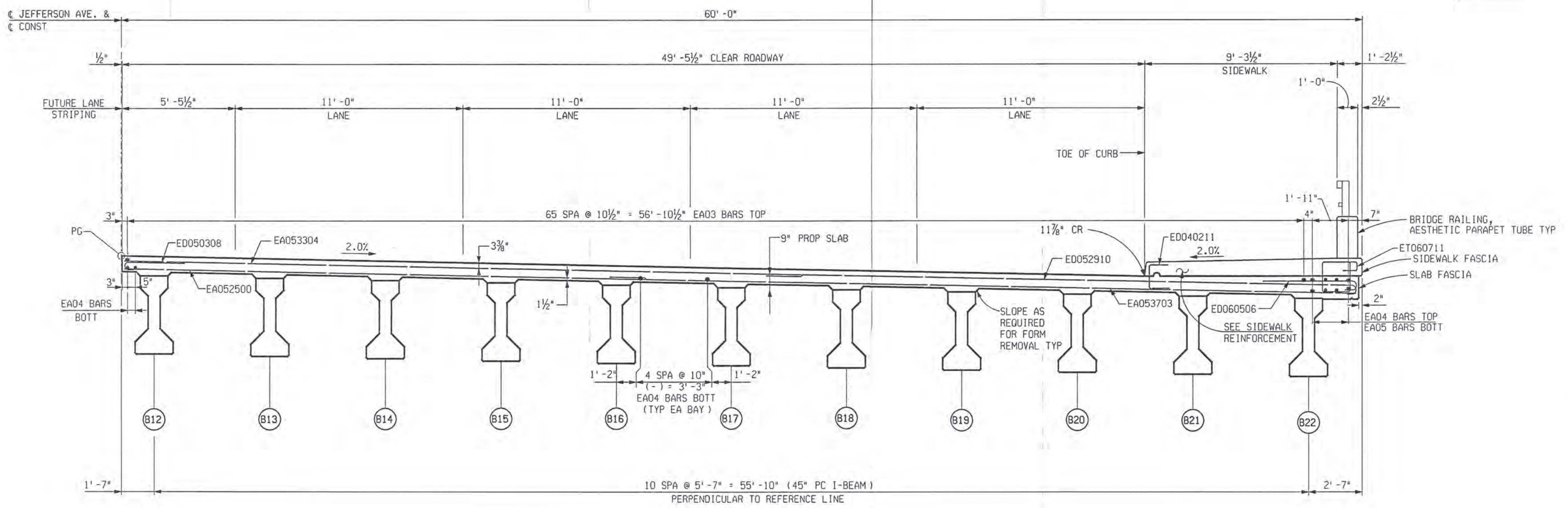
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION

SUPERSTRUCTURE DETAILS				
JEFFERSON AVE OVER DEQUINDRE CUT				
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02-11-05	S01 OF 82-22-02	BRT 82022	49717A	73 OF 80

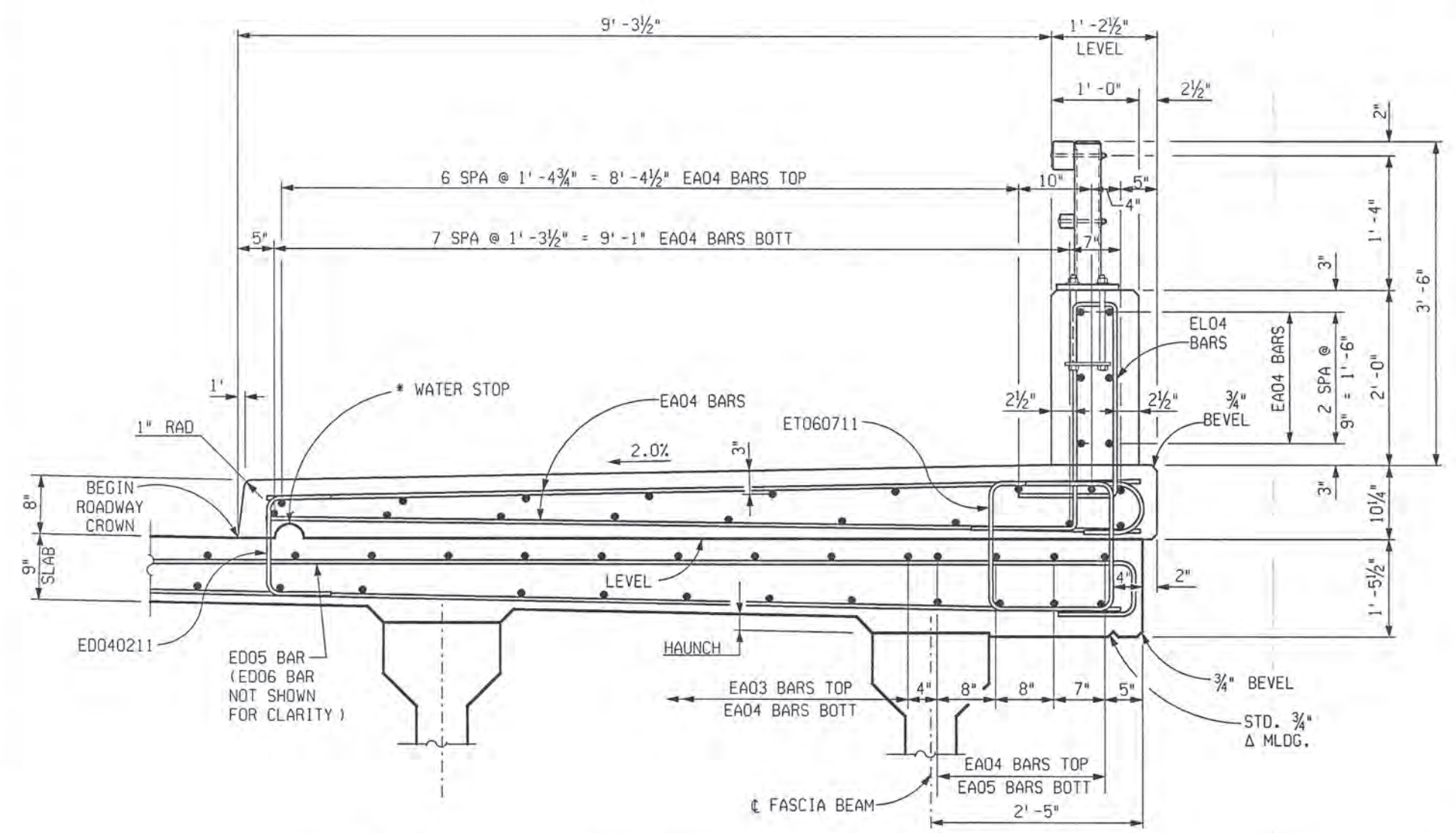
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REVISIONS			
NO.	DESCRIPTION	DATE	BY

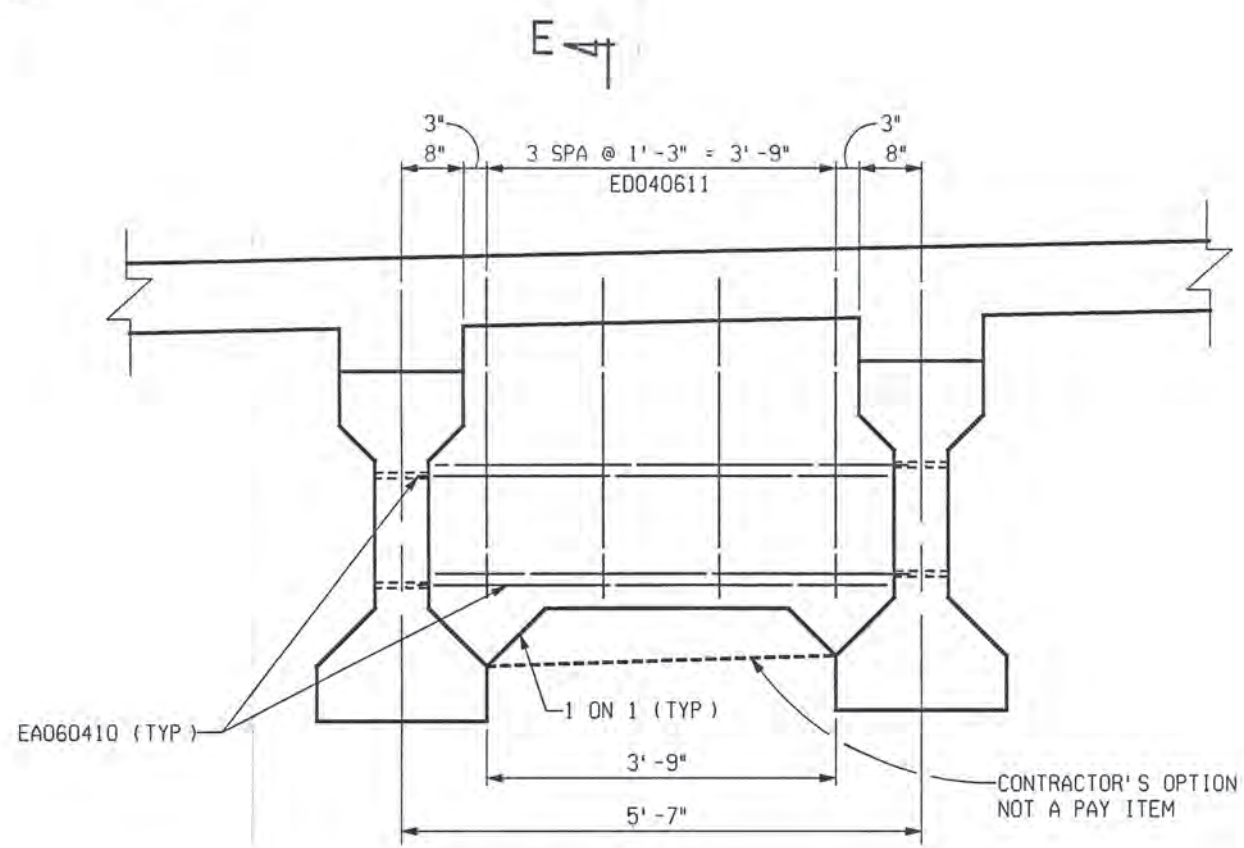


DECK SECTION STAGE IVA
LOOKING UPSTATION



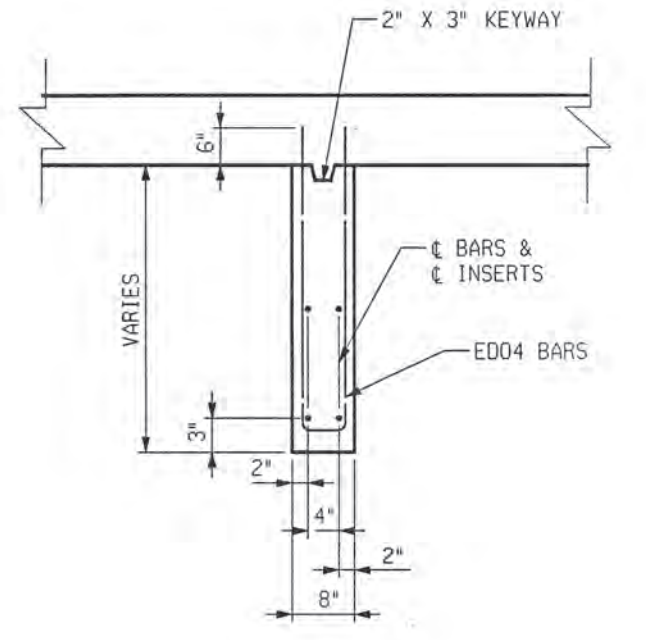
BRIDGE RAILING, AESTHETIC PARAPET TUBE TYP
SHOWING SOUTH SIDEWALK

* 2" HIGH 4" LONG (±), FORMING NOT REQUIRED.



DIAPHRAGM TYPICAL ELEVATION

LOOKING UP STATION
VIEWED ⊥ BRIDGE CONST



SECTION E-E



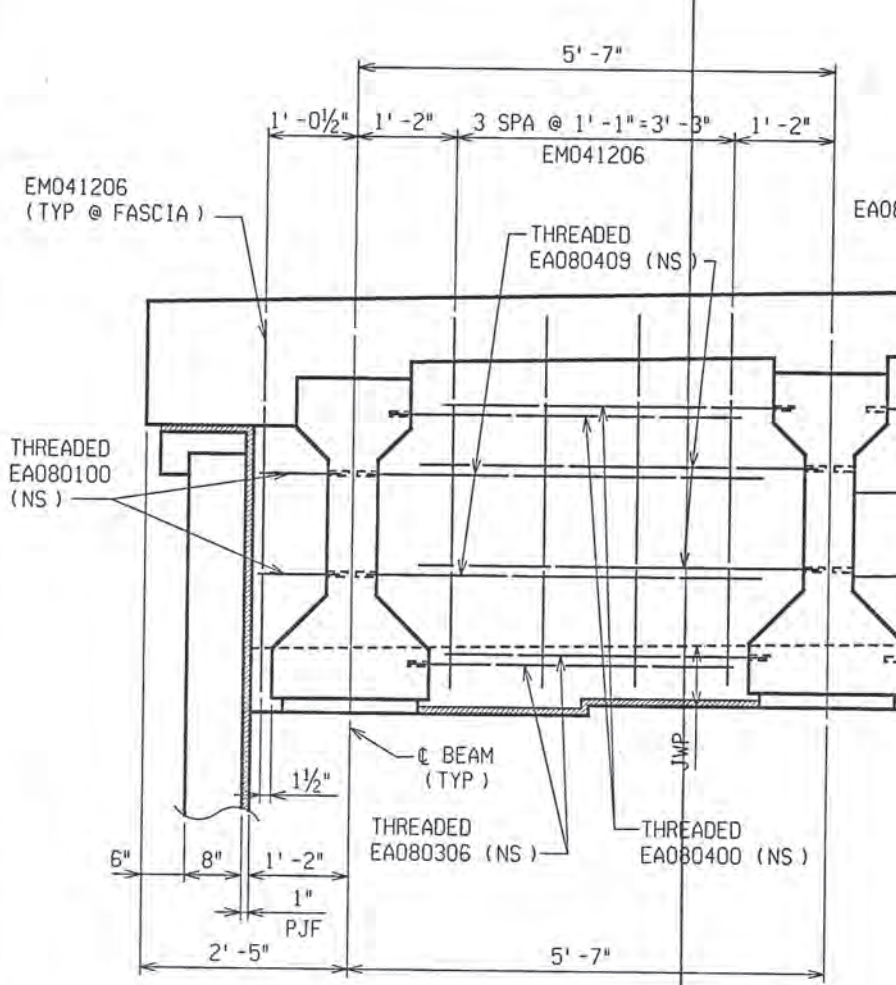
PARSONS BRINCKERHOFF, INC.
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Detroit, MI 48226
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CITY ENGINEERING DIVISION

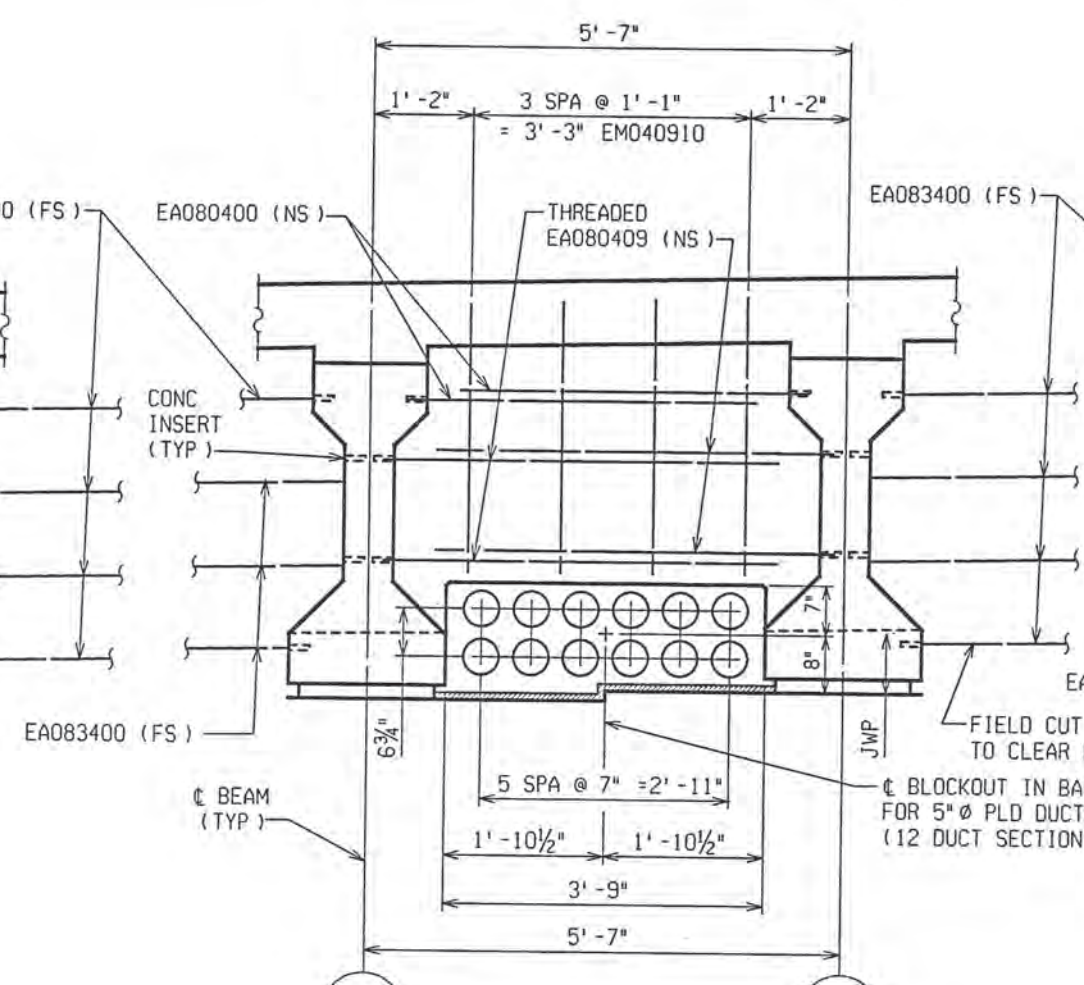
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JEFFERSON AVE OVER DEQUINDRE CUT				
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02-11-05	SO1 OF 82-22-02	BRT 82022	49717A	74 OF 80

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2/10/2005
CHECKED BY: RJO DATE: 2/10/2005
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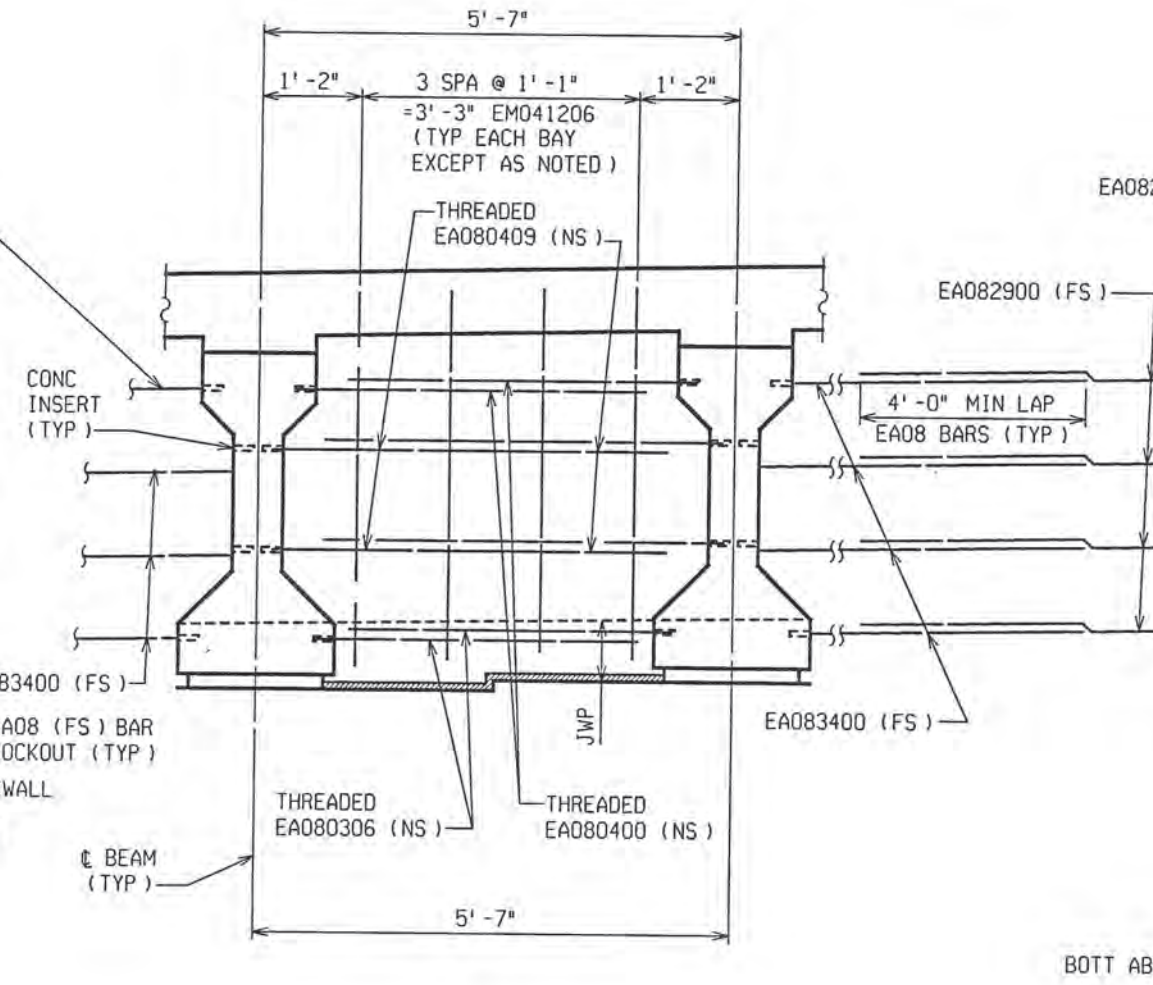
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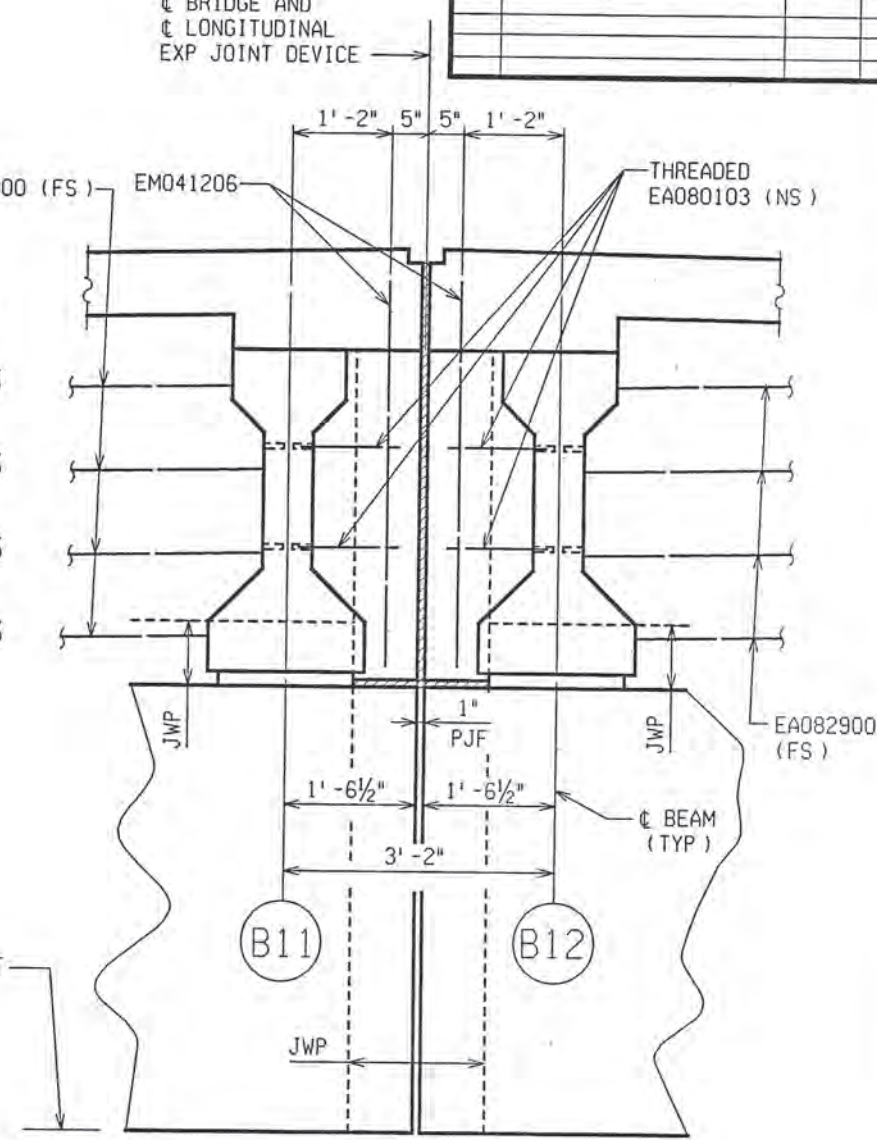
PARTIAL BACKWALL ELEVATION
(TYPICAL AT EXTERIOR FASCIA BAYS)



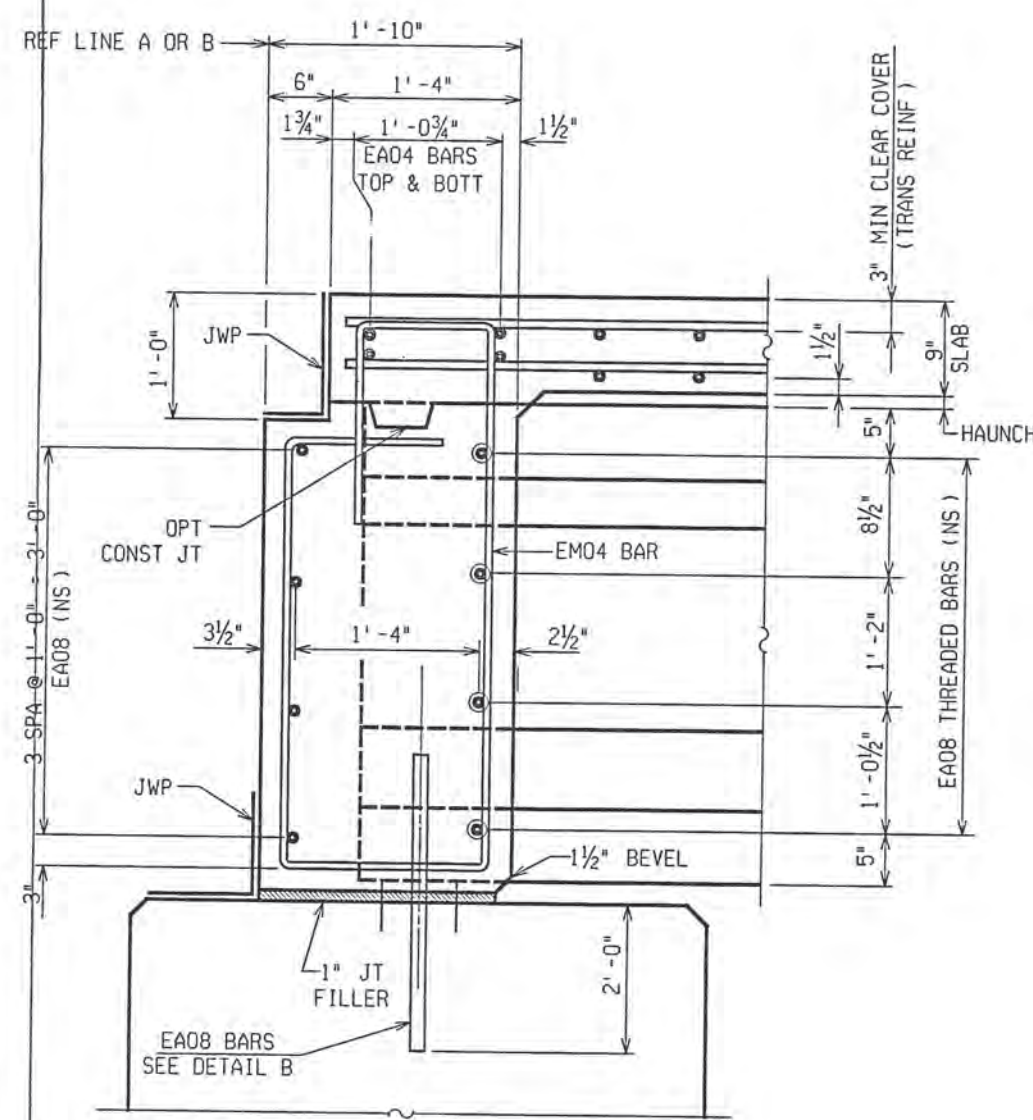
PARTIAL BACKWALL ELEVATION
(TYPICAL AT BAY 4 ONLY)



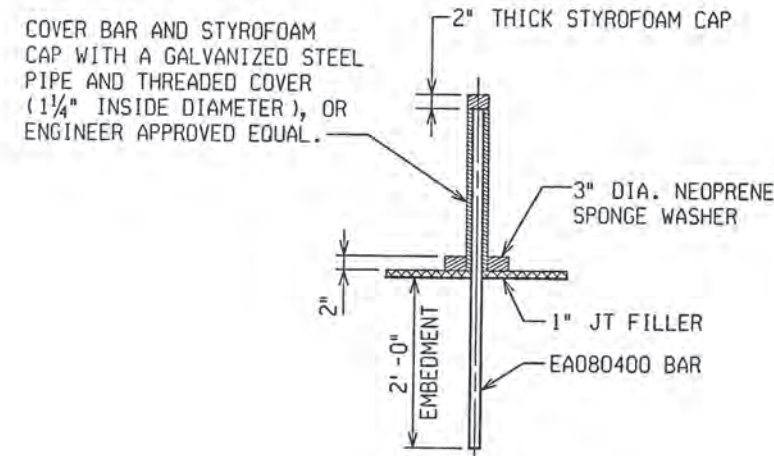
PARTIAL BACKWALL ELEVATION
(TYPICAL AT INTERIOR BAYS)



PARTIAL BACKWALL ELEVATION
(TYPICAL AT INTERIOR FASCIA BAY)



TYPICAL SECTION THRU BACKWALL



DETAIL B

ALL WORK AND MATERIAL FOR THE STYROFOAM CAP, METAL SLEEVE AND NEOPRENE SPONGE WASHER SHALL BE INCLUDED IN THE BID ITEM *SUPERSTRUCTURE CONCRETE, NIGHT CASTING.*

REVISIONS			
NO.	DESCRIPTION	DATE	BY

2/18/04 PM

CHECKED BY: RJO DATE: 2/10/2005

DRAWN BY: DCP DATE: 2/10/2005

FILE NAME: G:\35458a\Struct\CA00\JEFF.dwg



PB PARSONS BRINCKERHOFF, INC.
635 Griswold Street
BUN Building, Suite 1525
Detroit, MI 48226
313-963-5700

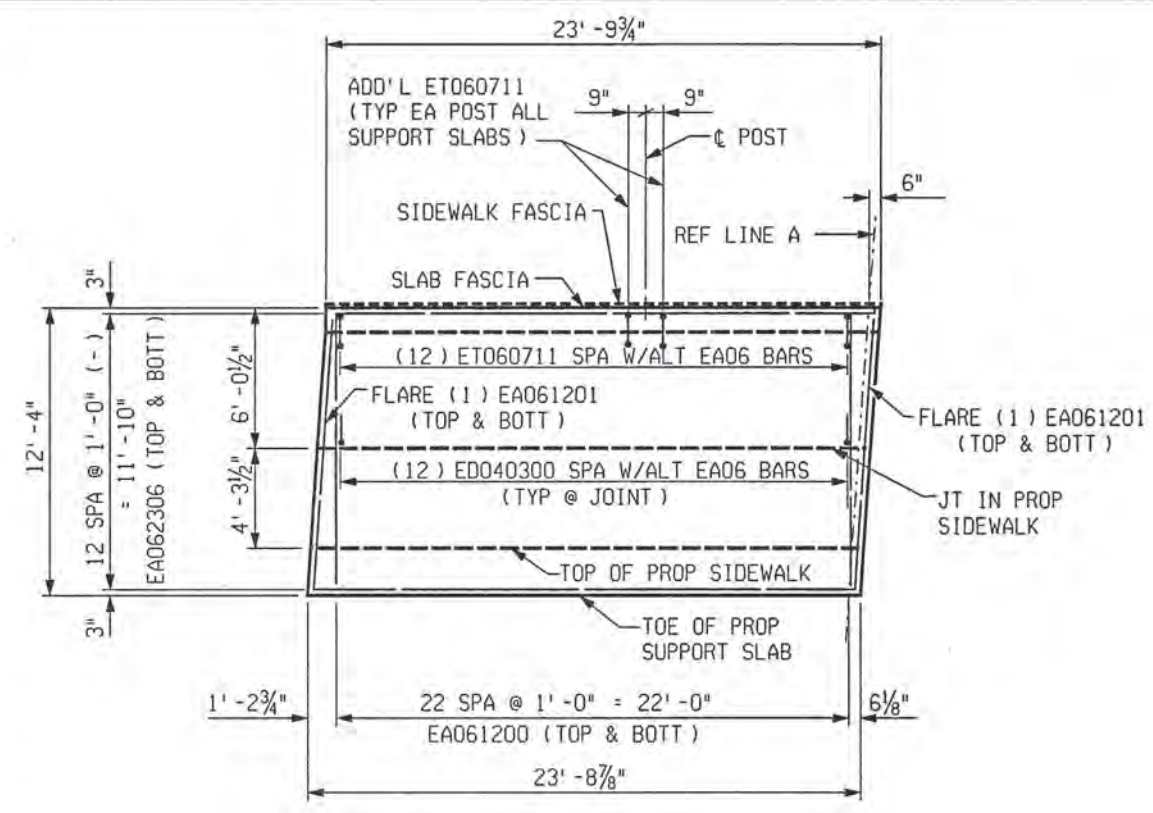
CITY OF DETROIT
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CITY ENGINEERING DIVISION

SUPERSTRUCTURE DETAILS
JEFFERSON AVE OVER DEQUINDRE CUT

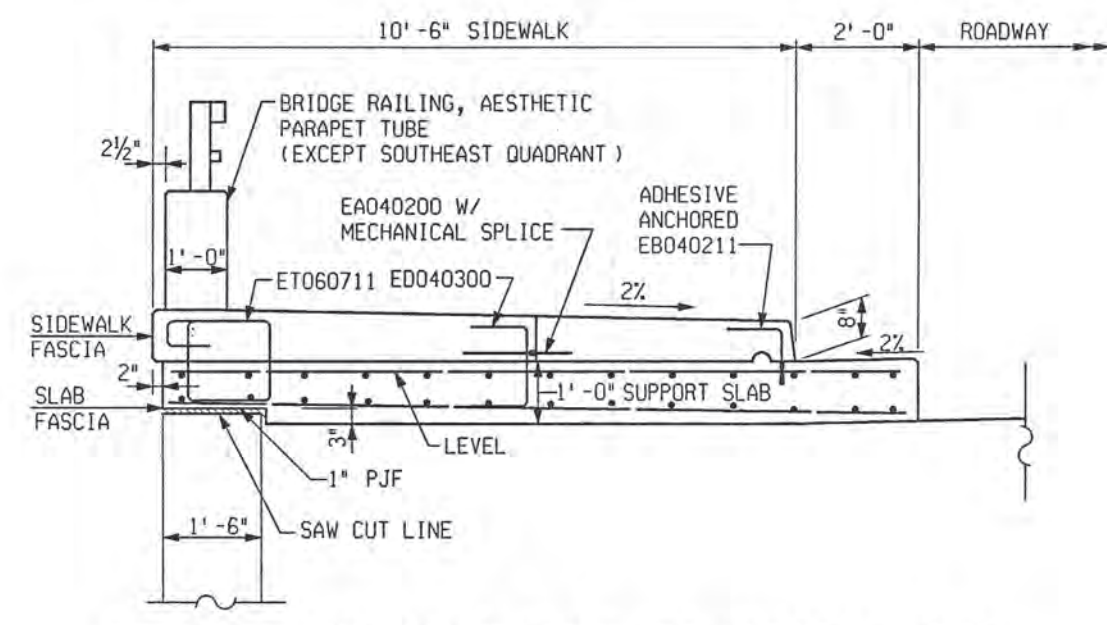
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	75 OF 80

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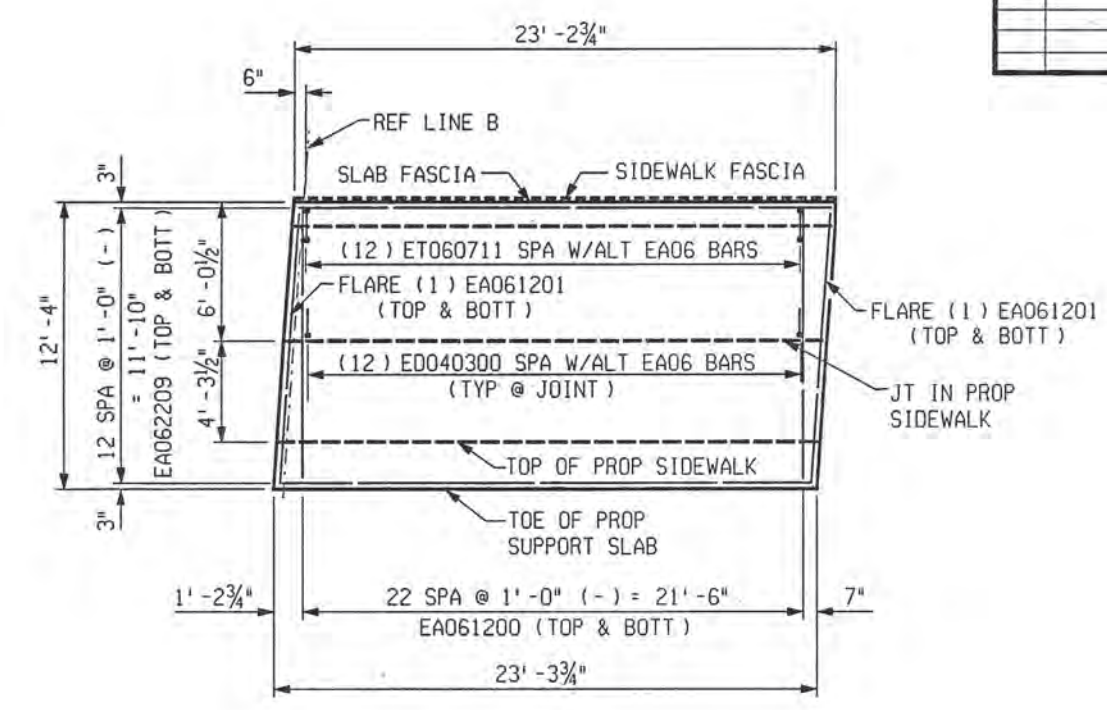
REVISIONS			
NO.	DESCRIPTION	DATE	BY



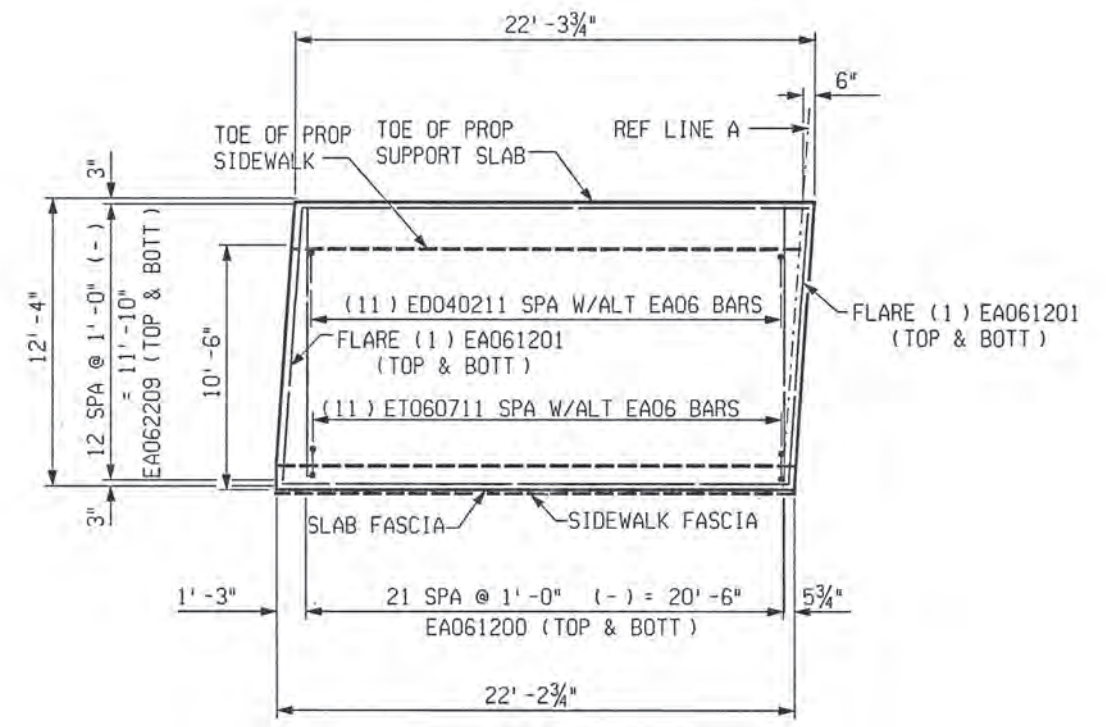
NW SUPPORT SLAB DETAIL



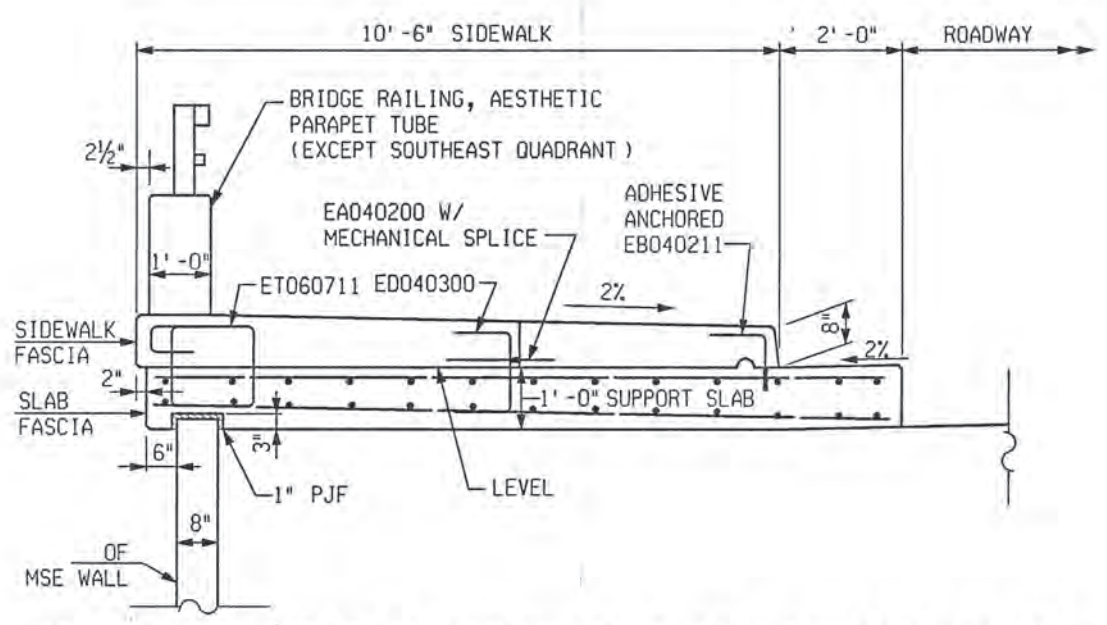
TYPICAL SECTION THRU NW SUPPORT SLAB (SHOWING SECTION OVER EXISTING RETAINING WALL)



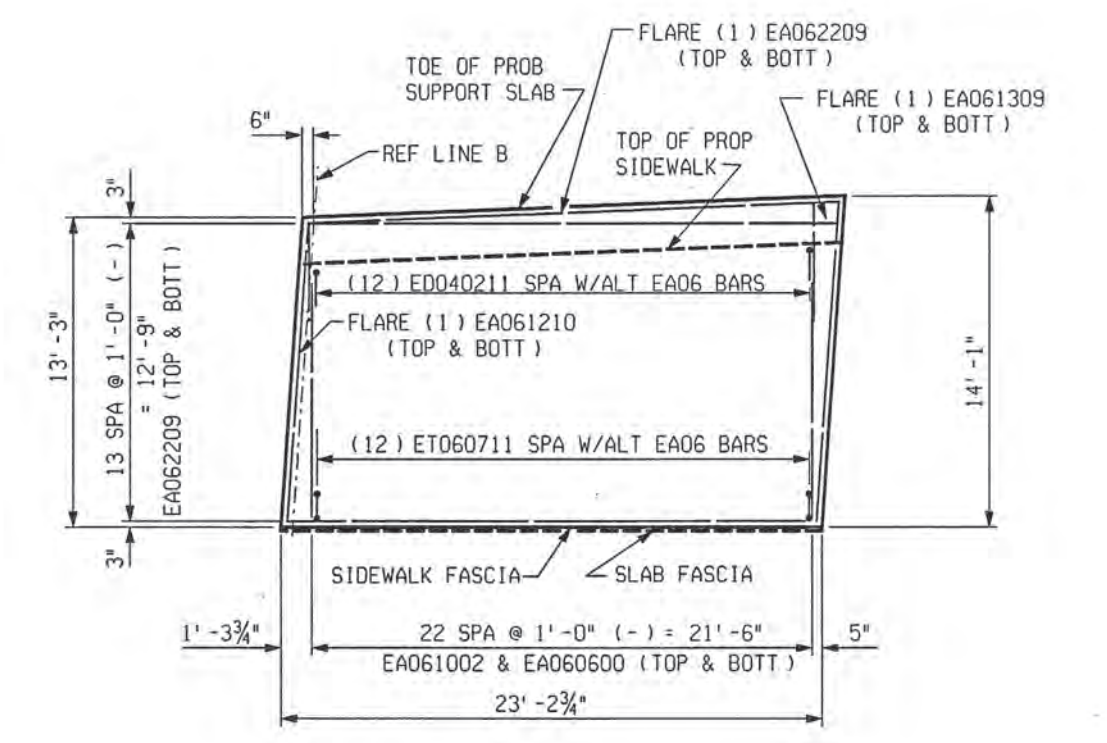
NE SUPPORT SLAB DETAIL



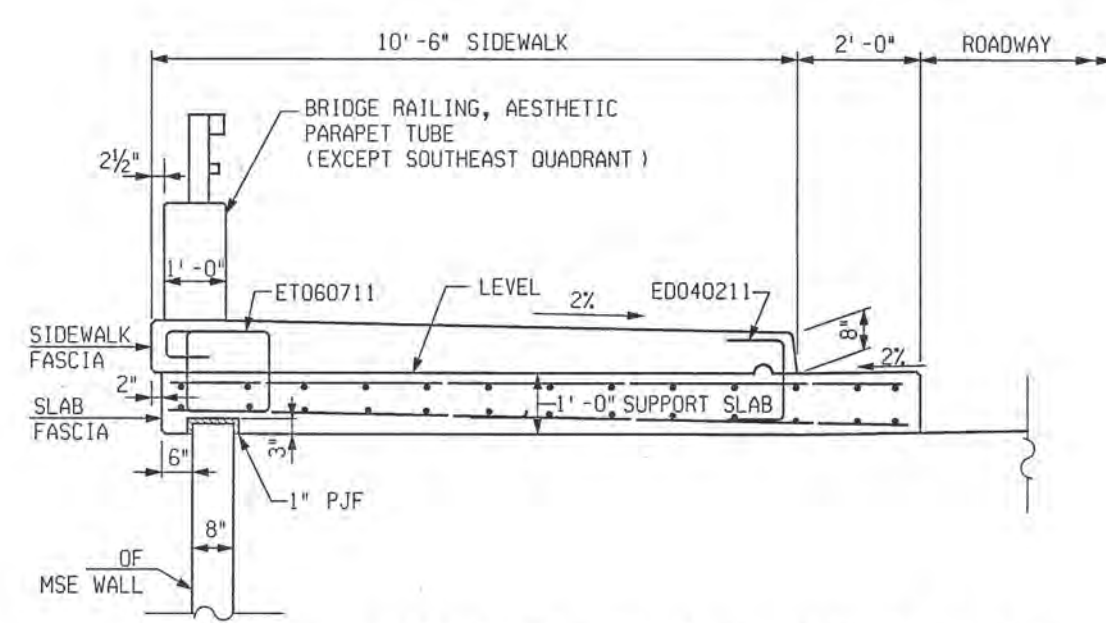
SW SUPPORT SLAB DETAIL



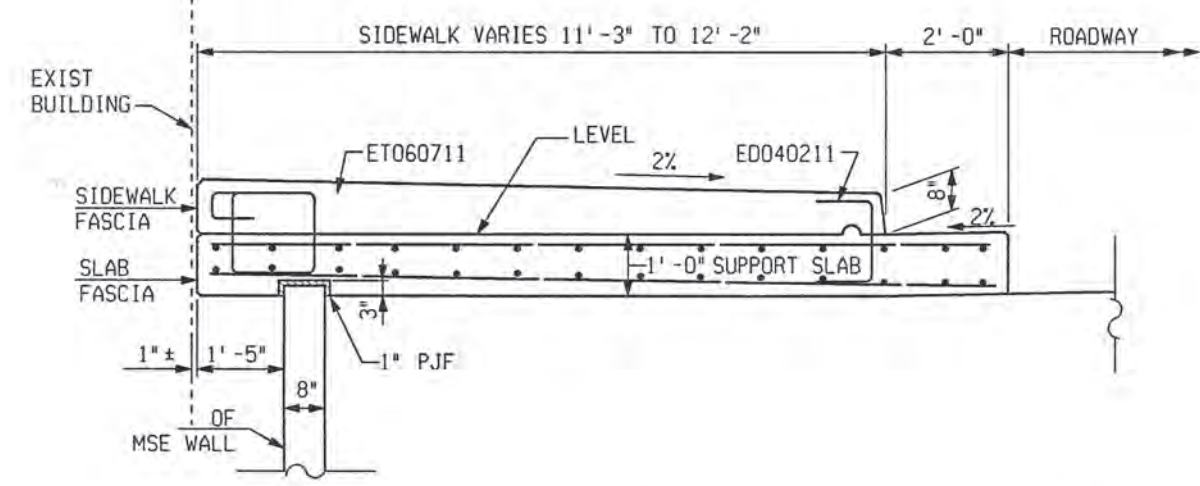
TYPICAL SECTION THRU NE & NW SUPPORT SLAB



SE SUPPORT SLAB DETAIL



TYPICAL SECTION THRU SW SUPPORT SLAB



TYPICAL SECTION THRU SOUTHEAST SUPPORT SLAB



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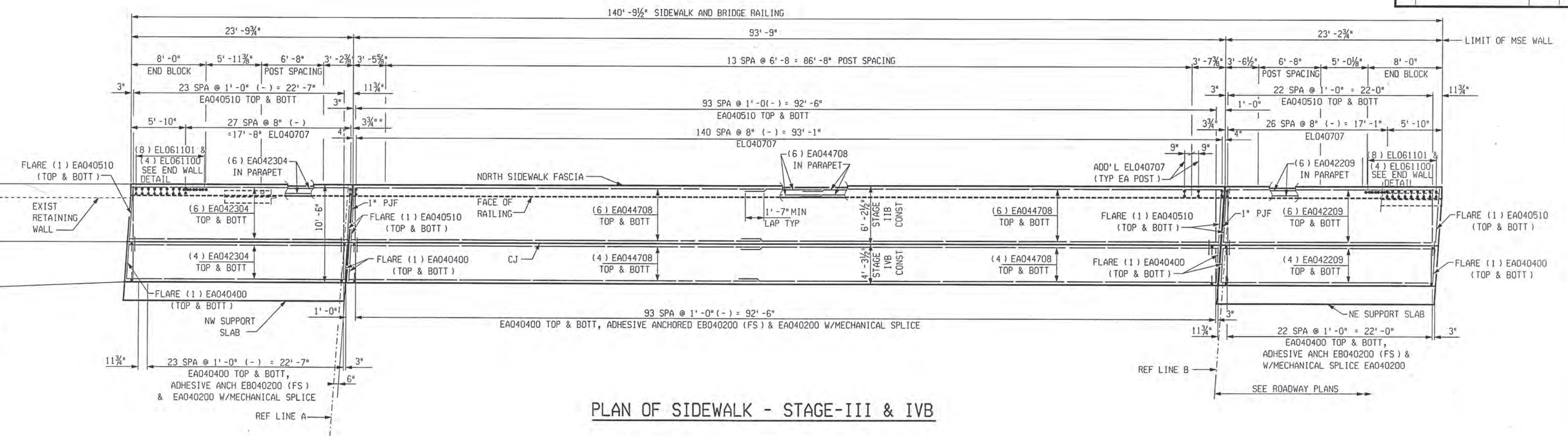
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION

SUPERSTRUCTURE DETAILS				
JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	SO1 OF 82-22-02	BRT 82022	49717A	76 OF 80

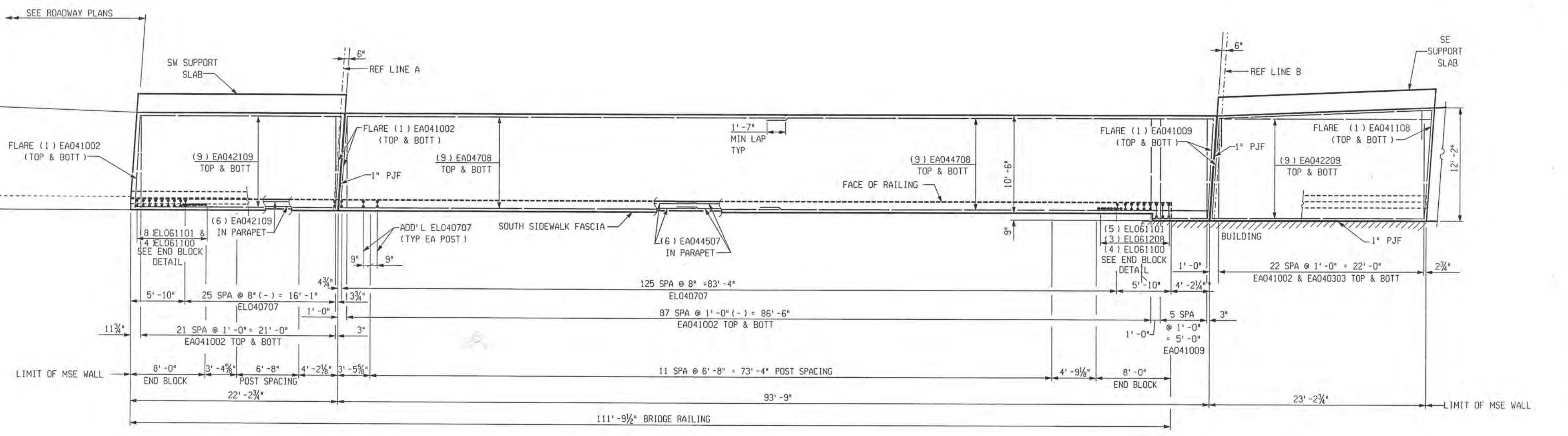
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REVISIONS			
NO.	DESCRIPTION	DATE	BY



PLAN OF SIDEWALK - STAGE-III & IVB



PLAN OF SIDEWALK - STAGE-IVA



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 Detroit, MI 48226
 313-963-5760

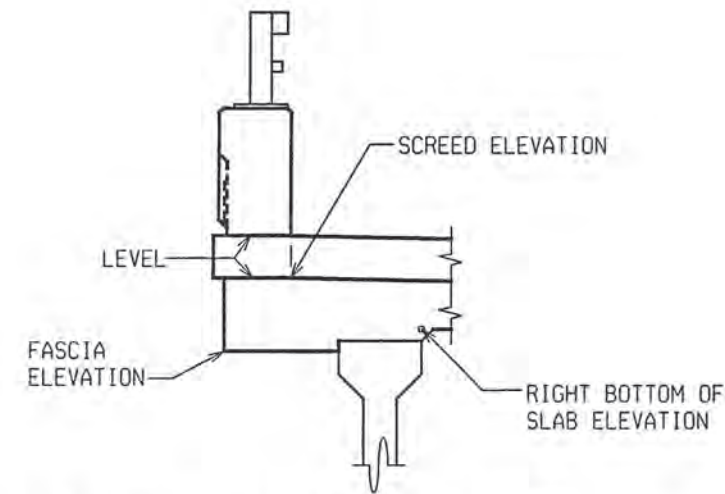
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION

SUPERSTRUCTURE DETAILS				
JEFFERSON AVE OVER DEQUINDRE CUT				
DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	77 OF 80

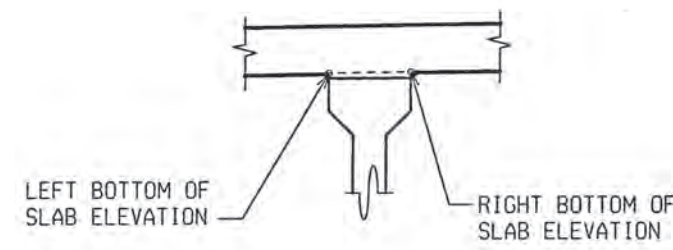
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REVISIONS			
NO.	DESCRIPTION	DATE	BY



TYPICAL FASCIA SECTION



TYPICAL INTERIOR SECTION

BOTTOM OF SLAB ELEVATIONS

BEAM	LOCATION	0	1	2	3	4	5	6	7	8	9	10
B1	FASCIA	600.53	600.70	600.84	600.94	600.99	600.98	600.93	600.82	600.66	600.45	600.21
B1	RIGHT	601.09	601.26	601.41	601.50	601.55	601.55	601.49	601.38	601.22	601.01	600.78
B2	LEFT	601.17	601.35	601.49	601.59	601.64	601.64	601.58	601.47	601.31	601.11	600.87
B2	RIGHT	601.20	601.38	601.52	601.62	601.67	601.66	601.61	601.50	601.34	601.13	600.89
B3	LEFT	601.28	601.46	601.60	601.70	601.75	601.75	601.69	601.58	601.43	601.22	600.98
B3	RIGHT	601.31	601.49	601.63	601.73	601.78	601.78	601.72	601.61	601.45	601.25	601.01
B4	LEFT	601.39	601.57	601.71	601.81	601.86	601.86	601.81	601.70	601.54	601.34	601.10
B4	RIGHT	601.42	601.60	601.74	601.84	601.89	601.89	601.83	601.72	601.57	601.36	601.13
B5	LEFT	601.50	601.68	601.82	601.92	601.98	601.97	601.92	601.81	601.66	601.45	601.22
B5	RIGHT	601.52	601.70	601.85	601.95	602.00	602.00	601.95	601.84	601.68	601.48	601.24
B6	LEFT	601.61	601.79	601.93	602.04	602.09	602.09	602.03	601.93	601.77	601.57	601.33
B6	RIGHT	601.63	601.81	601.96	602.06	602.11	602.11	602.06	601.95	601.80	601.60	601.36
B7	LEFT	601.72	601.90	602.05	602.15	602.20	602.20	602.15	602.04	601.89	601.69	601.45
B7	RIGHT	601.74	601.92	602.07	602.17	602.23	602.23	602.17	602.07	601.91	601.71	601.48
B8	LEFT	601.82	602.01	602.16	602.26	602.31	602.31	602.26	602.16	602.00	601.80	601.57
B8	RIGHT	601.85	602.03	602.18	602.28	602.34	602.34	602.29	602.18	602.03	601.83	601.59
B9	LEFT	601.96	602.14	602.29	602.40	602.45	602.45	602.40	602.30	602.14	601.94	601.71
B9	RIGHT	601.96	602.14	602.29	602.40	602.45	602.45	602.40	602.30	602.14	601.94	601.71
B10	LEFT	602.04	602.23	602.38	602.48	602.54	602.54	602.49	602.38	602.23	602.03	601.80
B10	RIGHT	602.07	602.25	602.40	602.51	602.56	602.57	602.51	602.41	602.26	602.06	601.83
B11	LEFT	602.15	602.32	602.45	602.55	602.60	602.60	602.55	602.45	602.31	602.13	601.92
B11	FASCIA	601.71	601.88	602.02	602.11	602.16	602.16	602.11	602.02	601.88	601.70	601.48
B11	FASCIA	601.71	601.88	602.02	602.11	602.16	602.16	602.11	602.02	601.88	601.70	601.49
B12	RIGHT	602.15	602.32	602.45	602.55	602.60	602.60	602.55	602.46	602.32	602.14	601.92
B13	LEFT	602.06	602.25	602.40	602.51	602.56	602.57	602.52	602.42	602.27	602.07	601.84
B13	RIGHT	602.03	602.22	602.37	602.48	602.54	602.54	602.49	602.39	602.24	602.04	601.81
B14	LEFT	601.95	602.13	602.29	602.39	602.45	602.46	602.41	602.31	602.16	601.96	601.73
B14	RIGHT	601.92	602.11	602.26	602.37	602.42	602.43	602.38	602.28	602.13	601.94	601.71
B15	LEFT	601.83	602.02	602.17	602.28	602.34	602.35	602.30	602.20	602.05	601.86	601.63
B15	RIGHT	601.80	601.99	602.15	602.25	602.31	602.32	602.27	602.17	602.02	601.83	601.60
B16	LEFT	601.72	601.90	602.06	602.17	602.23	602.24	602.19	602.09	601.94	601.75	601.52
B16	RIGHT	601.69	601.88	602.03	602.14	602.20	602.21	602.16	602.06	601.92	601.72	601.49
B17	LEFT	601.60	601.79	601.95	602.06	602.12	602.12	602.08	601.98	601.83	601.64	601.41
B17	RIGHT	601.57	601.76	601.92	602.03	602.09	602.10	602.05	601.95	601.81	601.61	601.39
B18	LEFT	601.49	601.68	601.83	601.94	602.00	602.01	601.97	601.87	601.73	601.53	601.31
B18	RIGHT	601.46	601.65	601.81	601.92	601.98	601.99	601.94	601.85	601.70	601.51	601.28
B19	LEFT	601.37	601.56	601.72	601.83	601.89	601.90	601.86	601.76	601.62	601.43	601.20
B19	RIGHT	601.34	601.54	601.69	601.80	601.87	601.88	601.83	601.74	601.59	601.40	601.17
B20	LEFT	601.26	601.45	601.61	601.72	601.78	601.79	601.75	601.65	601.51	601.32	601.09
B20	RIGHT	601.23	601.42	601.58	601.69	601.75	601.77	601.72	601.63	601.48	601.29	601.07
B21	LEFT	601.14	601.33	601.49	601.61	601.67	601.68	601.64	601.54	601.40	601.21	600.99
B21	RIGHT	601.11	601.31	601.47	601.58	601.64	601.65	601.61	601.52	601.37	601.18	600.96
B22	LEFT	601.03	601.22	601.38	601.49	601.55	601.57	601.52	601.43	601.29	601.10	600.88
B22	FASCIA	600.46	600.66	600.81	600.93	600.99	601.00	600.96	600.87	600.73	600.54	600.32

LOCATION	0	1	2	3	4	5	6	7	8	9	10
LEFT	601.99	602.01	602.03	602.04	602.03	602.01	601.97	601.91	601.84	601.76	601.67
LEFT CURB	601.98	602.01	602.04	602.05	602.05	602.03	601.99	601.93	601.86	601.77	601.68
EXPAN JT LT	602.94	602.96	602.98	602.98	602.98	602.96	602.93	602.89	602.84	602.78	602.71
EXPAN JT RT	602.94	602.96	602.98	602.98	602.98	602.96	602.93	602.89	602.84	602.78	602.71
RIGHT CURB	601.93	601.97	602.01	602.04	602.05	602.04	602.02	601.98	601.92	601.85	601.77
RIGHT	601.92	601.96	602.00	602.03	602.03	602.03	602.01	601.97	601.92	601.85	601.78

BULKHEAD ELEVATIONS		
BEAM	ABUT A	ABUT B
B1	601.98	602.07
B2	601.98	602.07
B3	602.04	602.14
B4	602.15	602.25
B5	602.26	602.36
B6	602.37	602.47
B7	602.48	602.59
B8	602.59	602.70
B9	602.70	602.81
B10	602.80	602.92
B11	602.91	603.04
B12	602.91	603.04
B13	602.80	602.93
B14	602.68	602.82
B15	602.57	602.71
B16	602.45	602.59
B17	602.34	602.48
B18	602.22	602.37
B19	602.11	602.26
B20	601.99	602.15
B21	601.92	602.09
B22	601.92	602.09

NOTES:

BOTTOM OF SLAB ELEVATIONS ARE AT RIGHT ANGLES TO THE BEAM CENTERLINE AND ARE BASED ON THE CONDITION THAT THE BEAMS AND DIAPHRAGMS ARE COMPLETELY ERECTED WITH NO OTHER LOADS APPLIED. THESE ELEVATIONS INCLUDE ALLOWANCE FOR VERTICAL CURVE AND DEFLECTION DUE TO FORMS, STEEL REINFORCEMENT, CONCRETE SLAB, BARRIER AND UTILITIES.

SCREED ELEVATIONS ARE BASED ON THE CONDITION THAT NO SLAB CONCRETE HAS BEEN CAST AND THAT FORMWORK AND STEEL REINFORCEMENT ARE IN PLACE.

SCREED RAILS FOR FINISHING OF STRUCTURAL CONCRETE SHALL BE LOCATED OVER FASCIA BEAMS.

SECTIONS FOR BOTTOM OF SLAB AND/OR SCREED ELEVATIONS ARE GIVEN ALONG BEAM CENTERLINES FROM CENTERLINE OF BEARING TO CENTERLINE OF BEARING AT EQUAL SPACINGS.



CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

SLAB AND SCREED DETAILS
JEFFERSON AVE OVER DEQUINDRE CUT

DATE	STRUCTURE NO.	CONT. SEC.	JOB NO.	SHEET
02-11-05	S01 OF 82-22-02	BRT 82022	49717A	78 OF 80

2:16:40 PM

2/10/2005

CHECKED BY: RJO DATE:

2/10/2005

DATE: DCP DRAWN BY:

FILE NAME: G:\35458a\Struct\CADD\jeff_1.ssdgn

