

DRAINAGE NOTES:

SEWER CLEANOUT: CLEAN ALL EXISTING DOWNSPOUT CLEANOUTS AND CONNECTING SEWER LATERALS, AS SHOWN ON THE PLANS, TO BE DONE AT THE DIRECTION OF THE ENGINEER IN THE FIELD.

CLEANING DRAINAGE STRUCTURE: CLEAN ALL EXISTING INLETS, CATCH BASINS AND MANHOLES CONNECTING TO THE BRIDGE STORM SEWER AND TO THE MAIN STORM SEWER AS SHOWN ON THE PLANS, TO BE DONE AT THE DIRECTION OF THE ENGINEER IN THE FIELD.

ALL DRAINAGE MUST BE FUNCTIONAL PRIOR TO OPENING BRIDGE TO TRAFFIC.

THESE DRAINAGE PLANS SHOW DRAINAGE STRUCTURES AND STORM SEWER TO BE CLEANED AND SHALL BE MEASURED IN THE FIELD AND PAID FOR AS SPECIFIED.

FOR QUANTITIES, SEE SHEET 4.

MATCHLINE STA. 24+00
SEE SHEET NO. 4

PLAN

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A JOINT ASSOCIATION
18431 JAMES COUZENS DETROIT, MI 48235

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

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	TIME

DRAWN BY	NAME	JAD	DATE	11/93

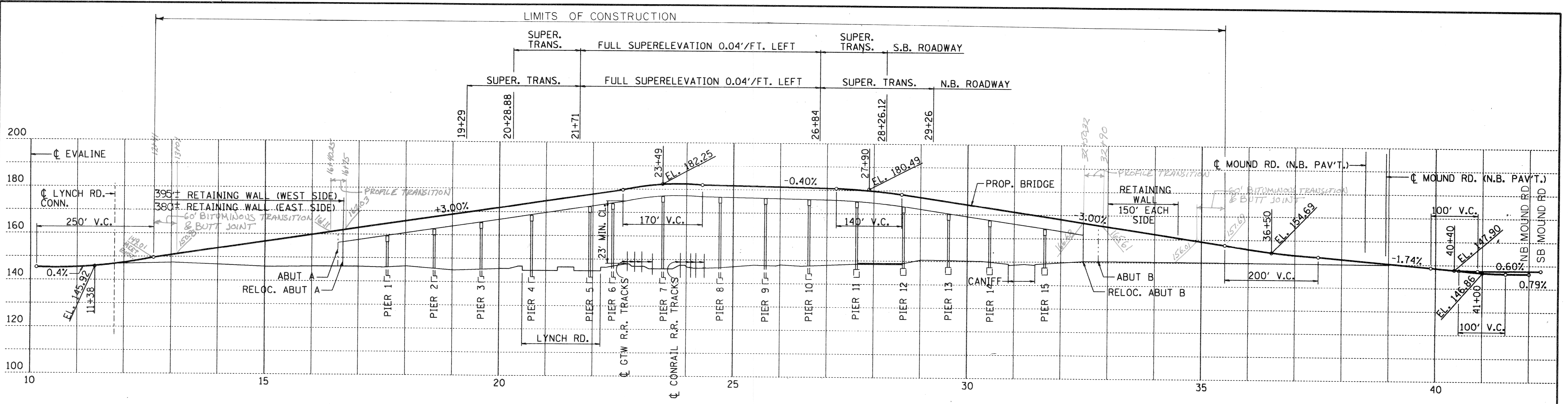
CHECKED BY	NAME	RAL	DATE	1/94

SHEET	5 OF 57

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SECTION D.D.1 OF 0222 TO INCL. 10



**PROPOSED PROFILE ALONG ϕ MOUNT ELLOTT - MOUND ROAD
GRADE SEPARATION**

NOTE:
NEW PROFILE GRADE IS 10' HIGHER
THAN EXISTING PROFILE GRADE.

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MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
PROFILE GRADE

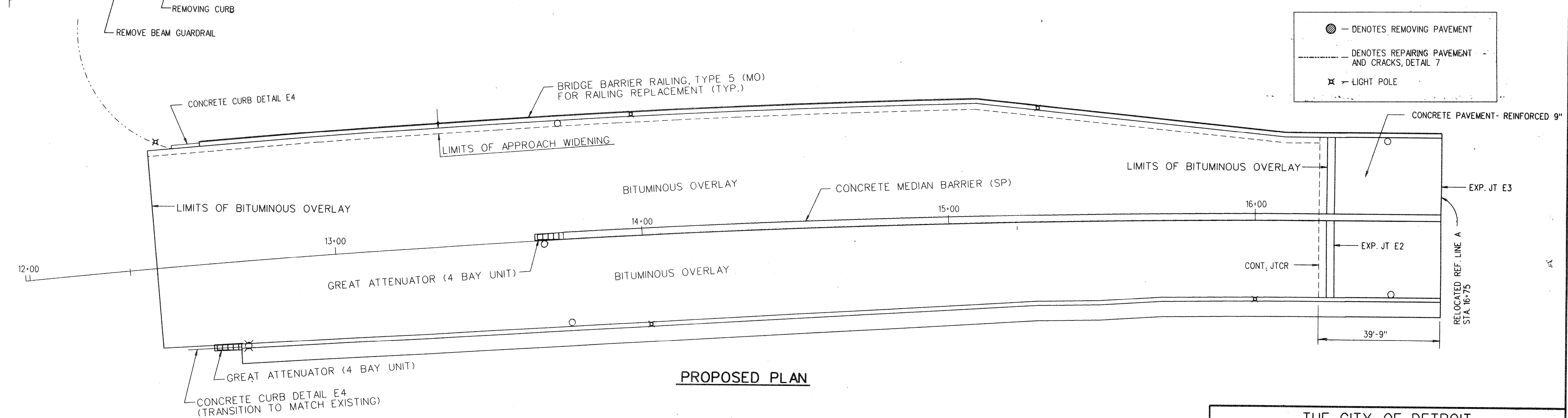
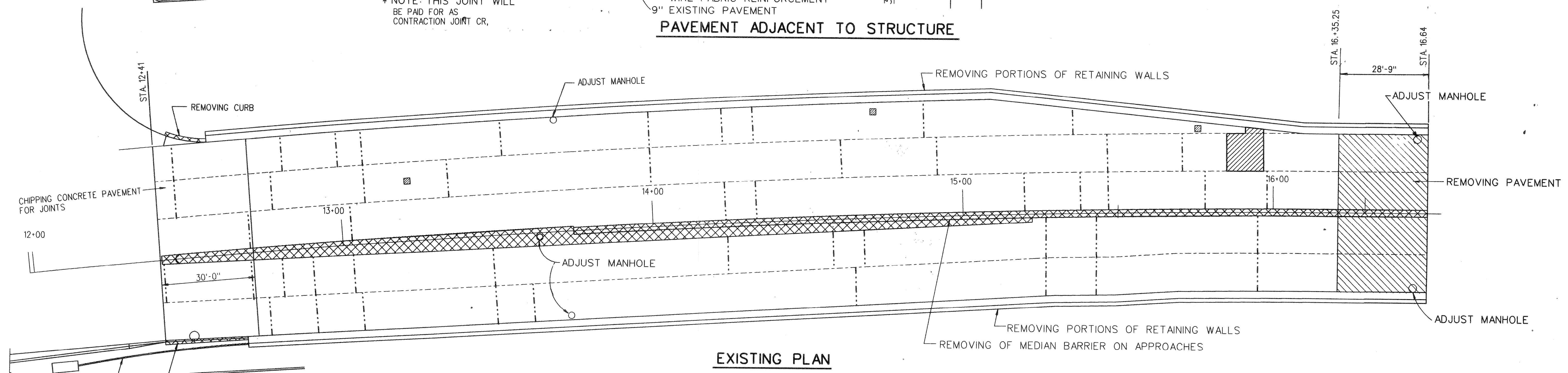
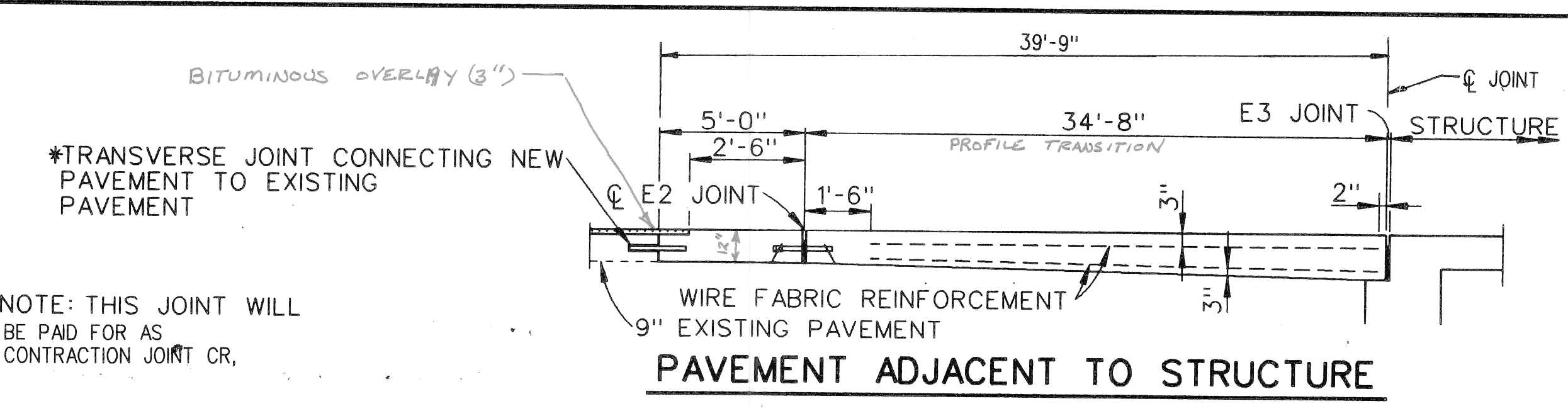
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME RAL	DATE 11/93
DRAWN BY	NAME WTA	DATE 11/93
CHECKED BY	NAME RAW	DATE 1/94
	SHEET 10	OF 37

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DENOTES REMOVING PAVEMENT
 DENOTES REPAIRING PAVEMENT AND CRACKS, DETAIL 7
 DENOTES LIGHT POLE

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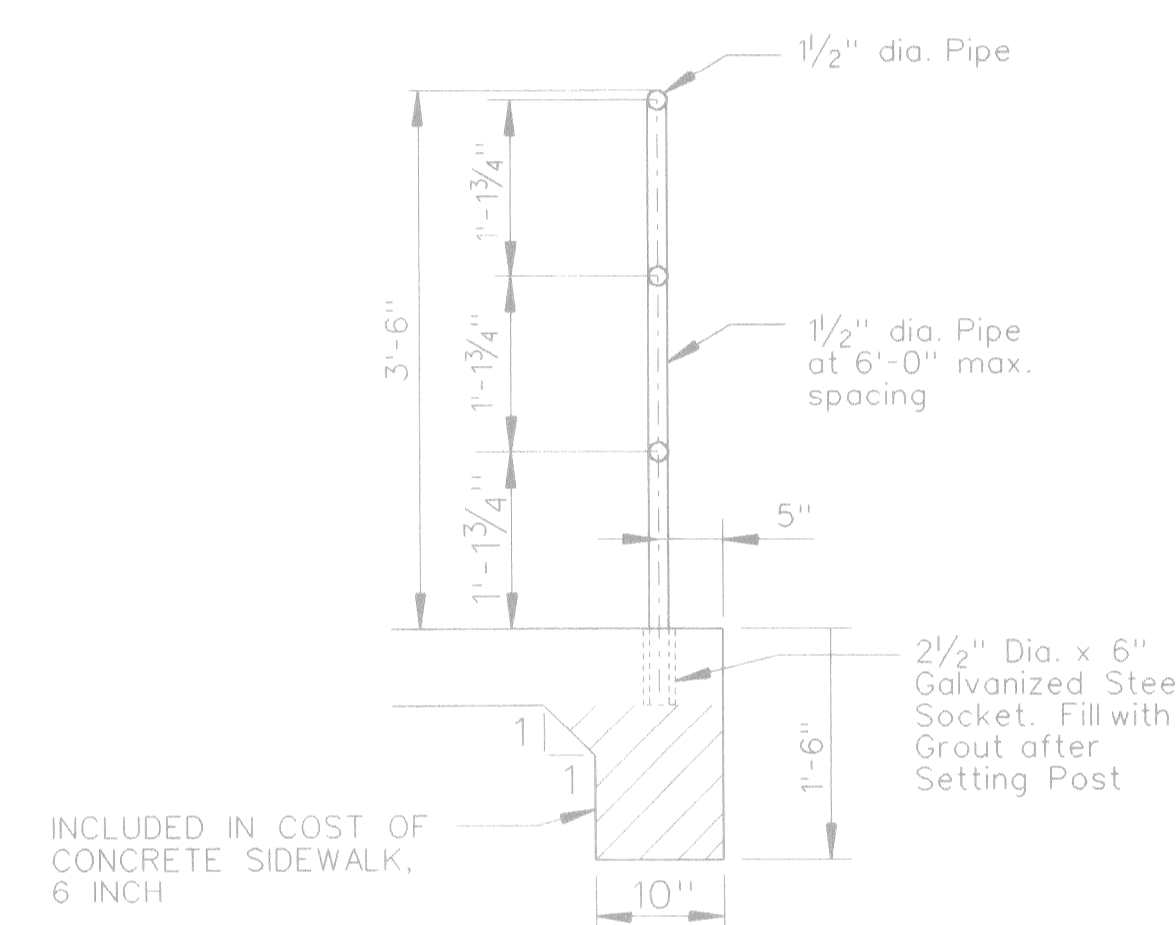
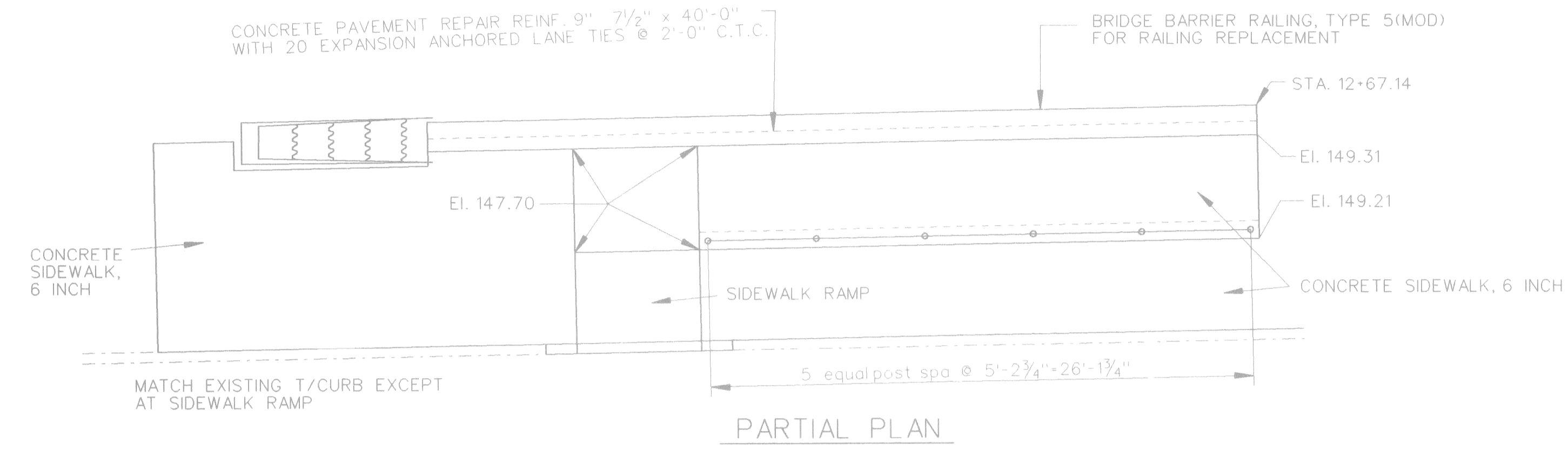
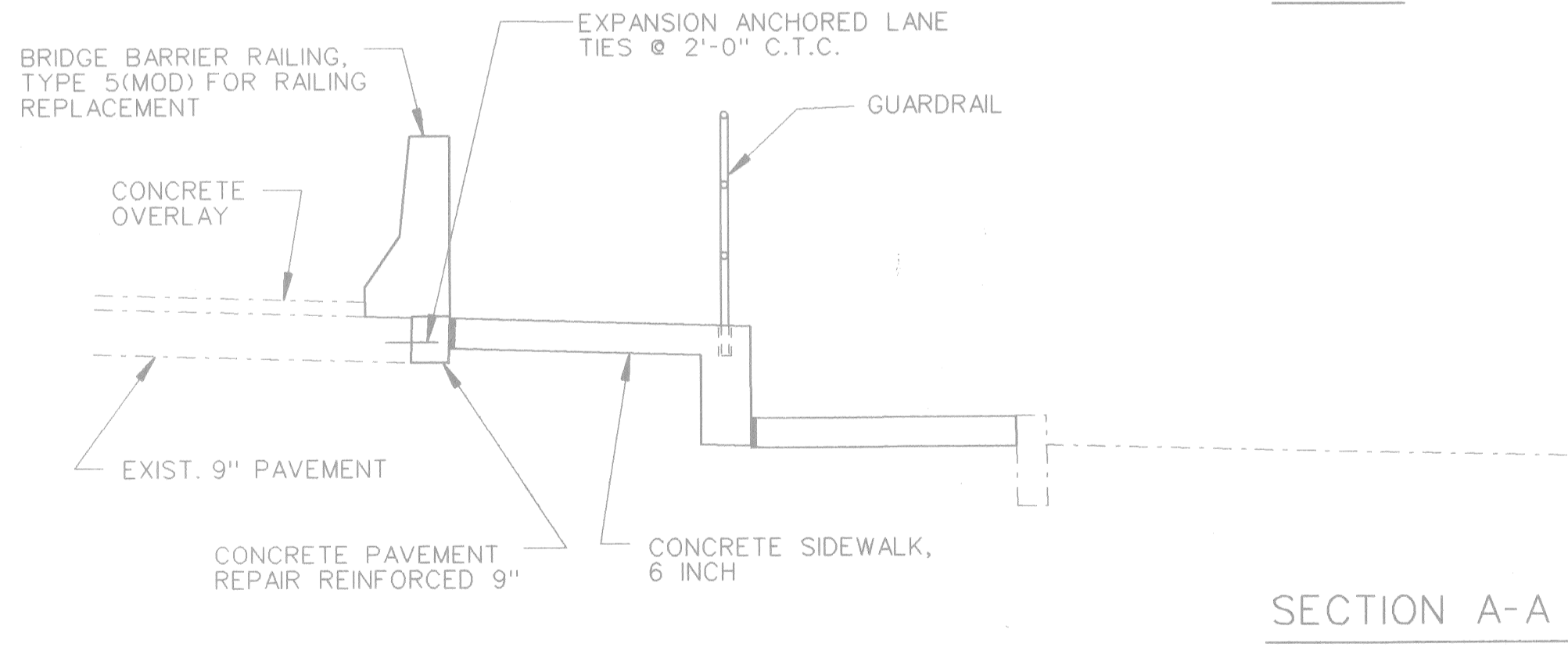
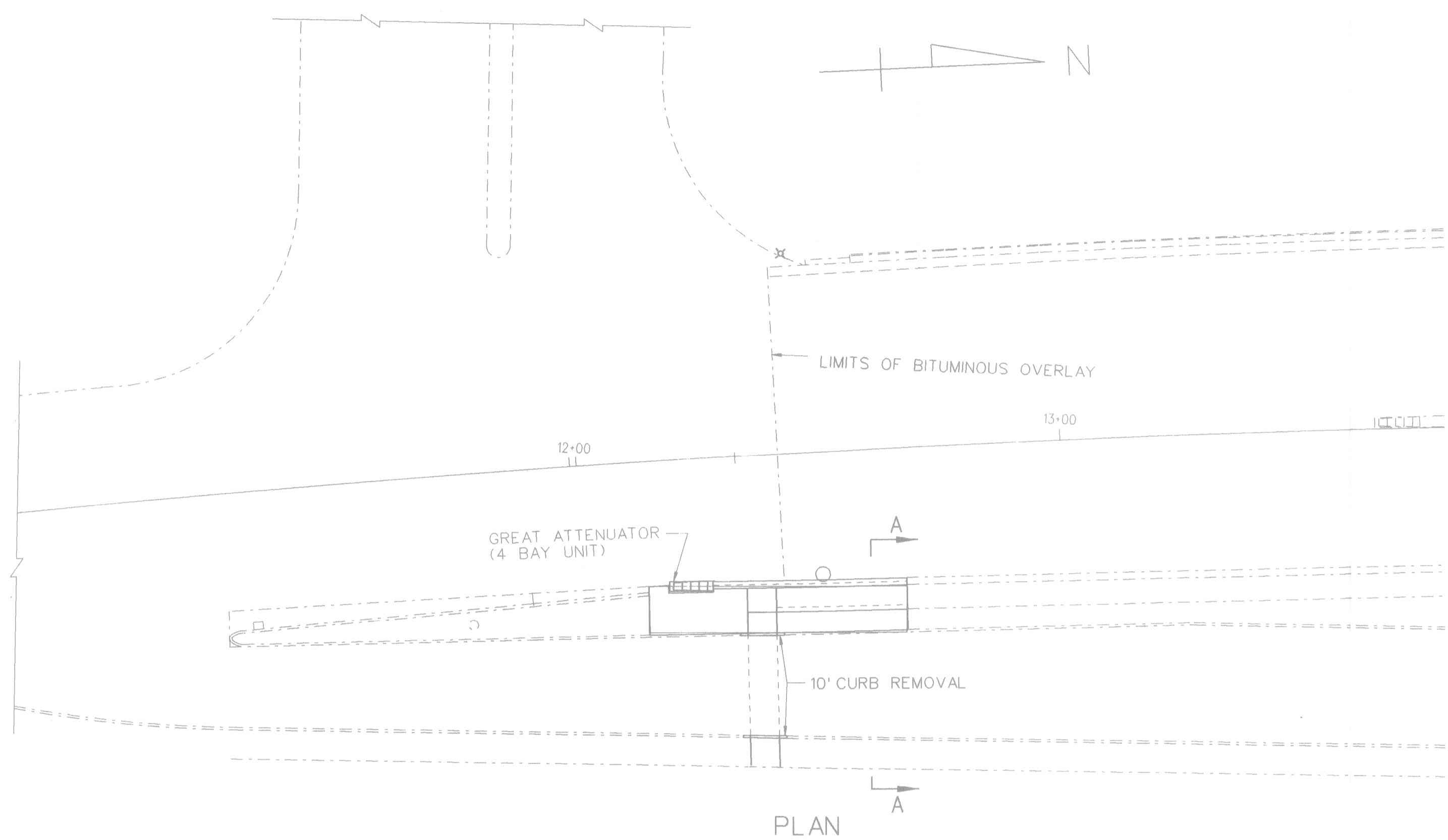
NOTE: WORK THIS SHEET WITH SHEETS 17 TO 21.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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

SQUAD BOSS	NAME	RAW	DATE	11/93
DRAWN BY	NAME	WTA	DATE	1/94
CHECKED BY	NAME	RAW	DATE	1/94
SHEET		16 OF 57		
B01 of 82-22-48				

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MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
UNCLASSIFIED FOUNDATION EXCAVATION	CYD	13.9
STRUCTURE BACKFILL (CIP)	CYD	3.7
CONCRETE SIDEWALK, 6 INCH	SFT	483
SIDEWALK RAMP	SFT	92
PIPE RAILING, GALVANIZED STEEL	LFT	34
REMOVING CURB	LFT	20
EXPANSION-ANCHORED LANE-TIES	EACH	20
CONCRETE PAVEMENT REPAIR-REINFORCED 9"	SYD	2.8
BRIDGE BARRIER RAILING, TYPE 5(MOD) FOR RAILING REPLACEMENT	LFT	40
REMOVING SIDEWALK	SYD	62.0
EPOXY ANCHORING OF VERTICAL BARS, 5/8"	EACH	61
EPOXY ANCHORING OF VERTICAL BARS, 1/2"	EACH	61

NOTES:

PIPE RAILING, GALVANIZED WILL BE MEASURED BY LENGTH IN LINEAR FEET OF TOP RAIL, FOR EACH RAILING REQUIRED, BASED ON THE DIMENSIONS SHOWN IN THE QUANTITIES AND AS DIRECTED BY THE CITY OF DETROIT. THE CONTRACT PRICE SHALL INCLUDE FURNISHING, FABRICATING, GALVANIZING, INSTALLING, AND GROUTING THE RAILING.

SIDEWALK RAMP WILL BE MEASURED IN PLACE BY AREA IN SQUARE FEET AND INCLUDES THE MONOLITHIC CURB.

REMOVING CURB WILL BE PAID FOR SEPARATELY.

THE CONCRETE SIDEWALK SHALL BE CONSTRUCTED AS NOTED IN THESE PLANS AND AS PER MDOT SPECIFICATION 6.11.

THE SIDEWALK SHALL BE THICKENED AS SHOWN IN SECTION A-A AND SHALL BE INCLUDED IN THE COST OF CONCRETE SIDEWALK, 6 INCH.

GRANULAR MATERIAL CLASS I SHALL BE USED FOR STRUCTURE BACKFILL (CIP)

WORK THIS SHEET WITH SHEET 18 & 48A.

SIDEWALK JOINTS:

ALL CUT TRANSVERSE JOINTS SHALL BE CONSTRUCTED AT 5 FOOT INTERVALS BETWEEN EXPANSION JOINTS.

1/2" EXPANSION FILLER SHALL BE PLACED BETWEEN THE SIDEWALK AND THE PAVEMENT WIDENING.

SEE MDOT STANDARD II-28G (TYPE 1) FOR SIDEWALK RAMP DETAILS.

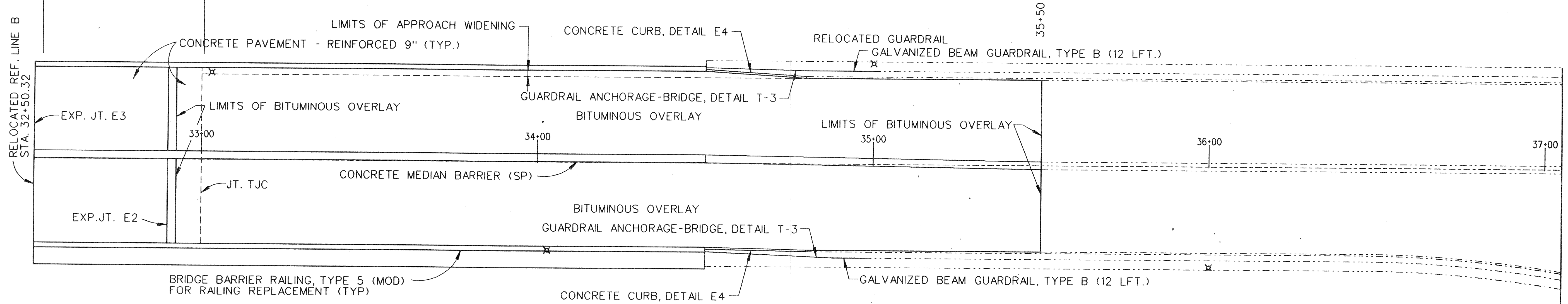
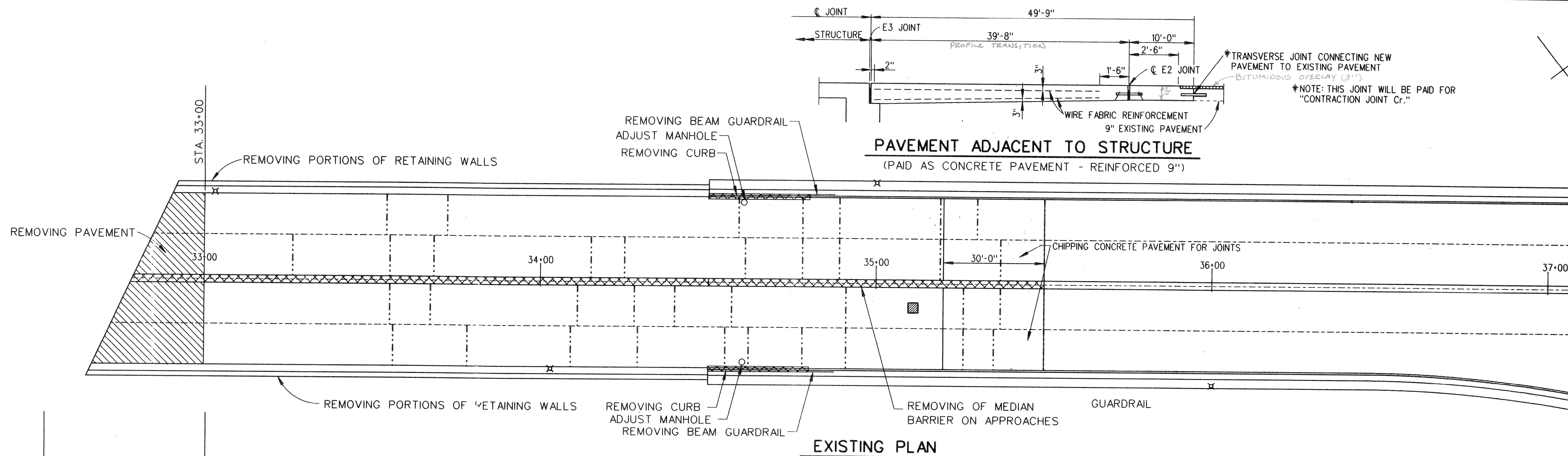
SEE MDOT STANDARD II-29E FOR DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS.

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 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 GENERAL PLAN SOUTH APPROACH

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REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	NEW DRAWING	10/95	RAL

SQUAD BOSS	NAME	RAL	DATE	10/95
DRAWN BY	NAME	LAR	DATE	10/95
CHECKED BY	NAME	KR	DATE	10/95
SHEET		16A OF 57		
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MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
REMOVING PAVEMENT	SYD	377
REMOVING CURB	LFT	69
REMOVING PORTIONS OF RETAINING WALLS	LFT	1,076
REMOVING OF MEDIAN BARRIER ON APPROACHES	LFT	606
REMOVING BEAM GUARDRAIL	LFT	256
BITUMINOUS PRIME COAT	GAL	429
CHIPPING CONCRETE PAVEMENT FOR JOINTS	SYD	377
REPAIRING PAVEMENT JOINTS AND CRACKS, DETAIL 7	LFT	1,092
BITUMINOUS MIXTURE NO. 1500T, 20AAA	TON	708
CONCRETE PAVEMENT - REINFORCED 9"	SYD	520
EXPANSION JOINT E2	LFT	105
EXPANSION JOINT E3	LFT	105
CONCRETE PAVEMENT REPAIR-REINFORCED 9"	SYD	454
CONCRETE CURB, DETAIL E4	LFT	100
GREAT ATTENUATOR (4 BAY UNIT)	EACH	2
ADJUST MANHOLE	EACH	7
CONTRACTION JOINT Cr.	LFT	105
GUARDRAIL ANCHORAGE-BRIDGE, DETAIL T-3	EACH	2
GALVANIZED BEAM GUARDRAIL, TYPE B	LFT	24

NOTES:
 REMOVING PORTIONS OF RETAINING WALLS INCLUDES BARRIER WALL, SIDEWALK, CURB, LIGHTING STANDARD HANDHOLE, ELECTRICAL CONDUITS AND WIRES, AND FENCING ON RETAINING WALLS, AND REINSTALLING THE FENCING ON THE NEW WEST BARRIER WALL.

LEGEND

- DENOTES REMOVING PAVEMENT
- DENOTES REPAIRING PAVEMENT JOINTS AND CRACKS, DETAIL 7
- LIGHT POLE

NOTE: WORK THIS SHEET WITH SHEETS 20 AND 21.

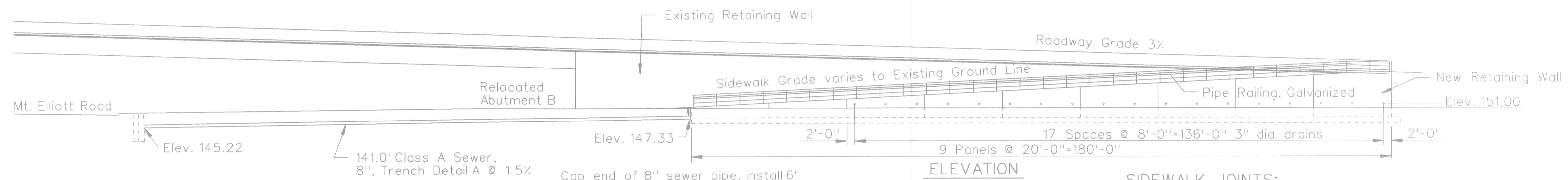
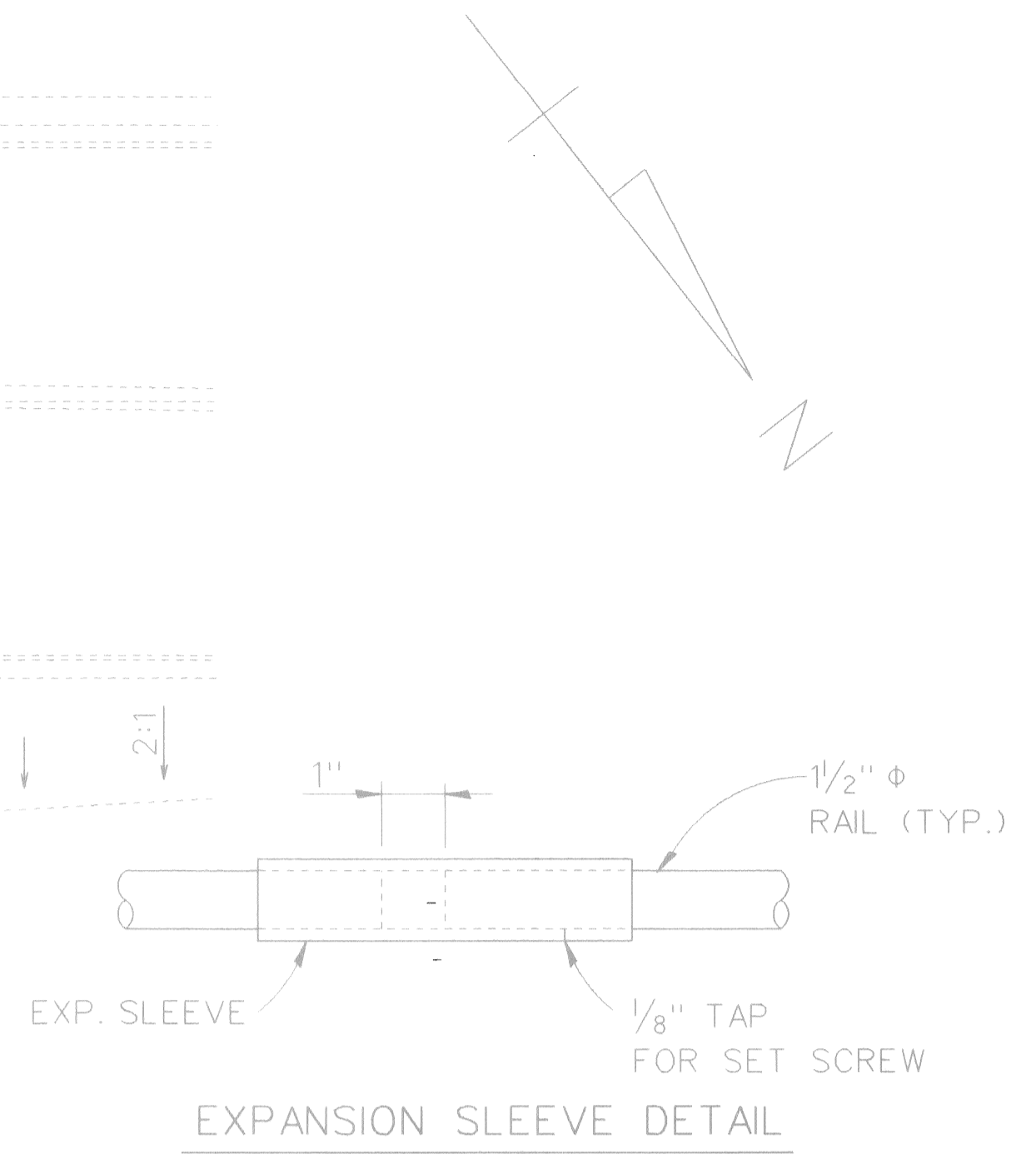
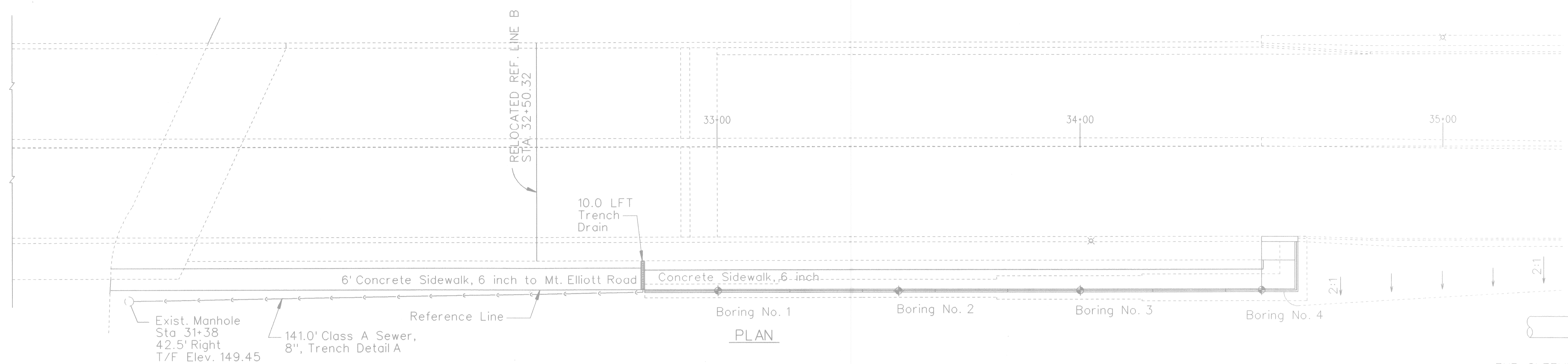
REVISIONS			
NO.	DESCRIPTION	DATE	BY

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 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 GENERAL PLAN NORTH APPROACH

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET 17 OF 57		

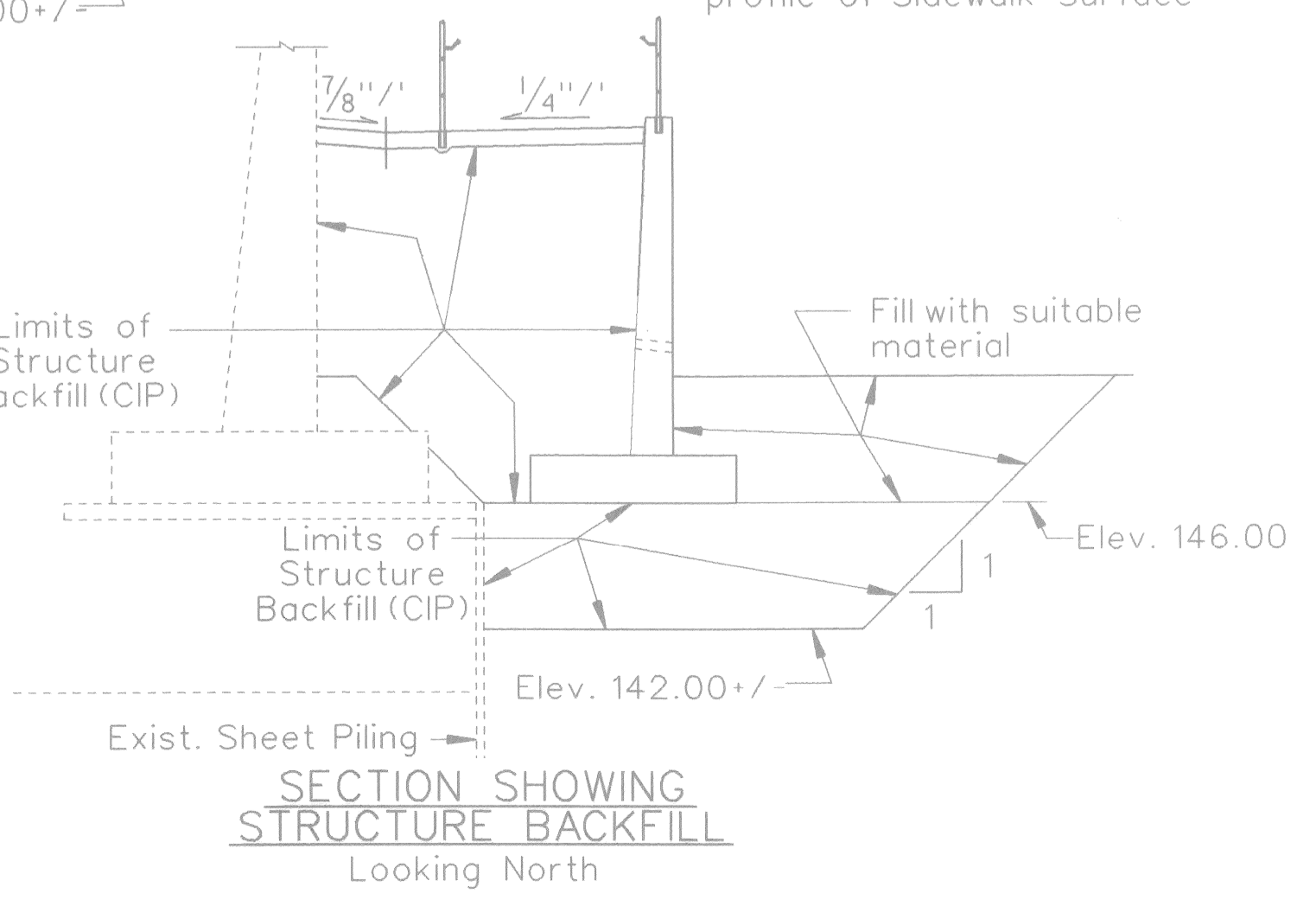
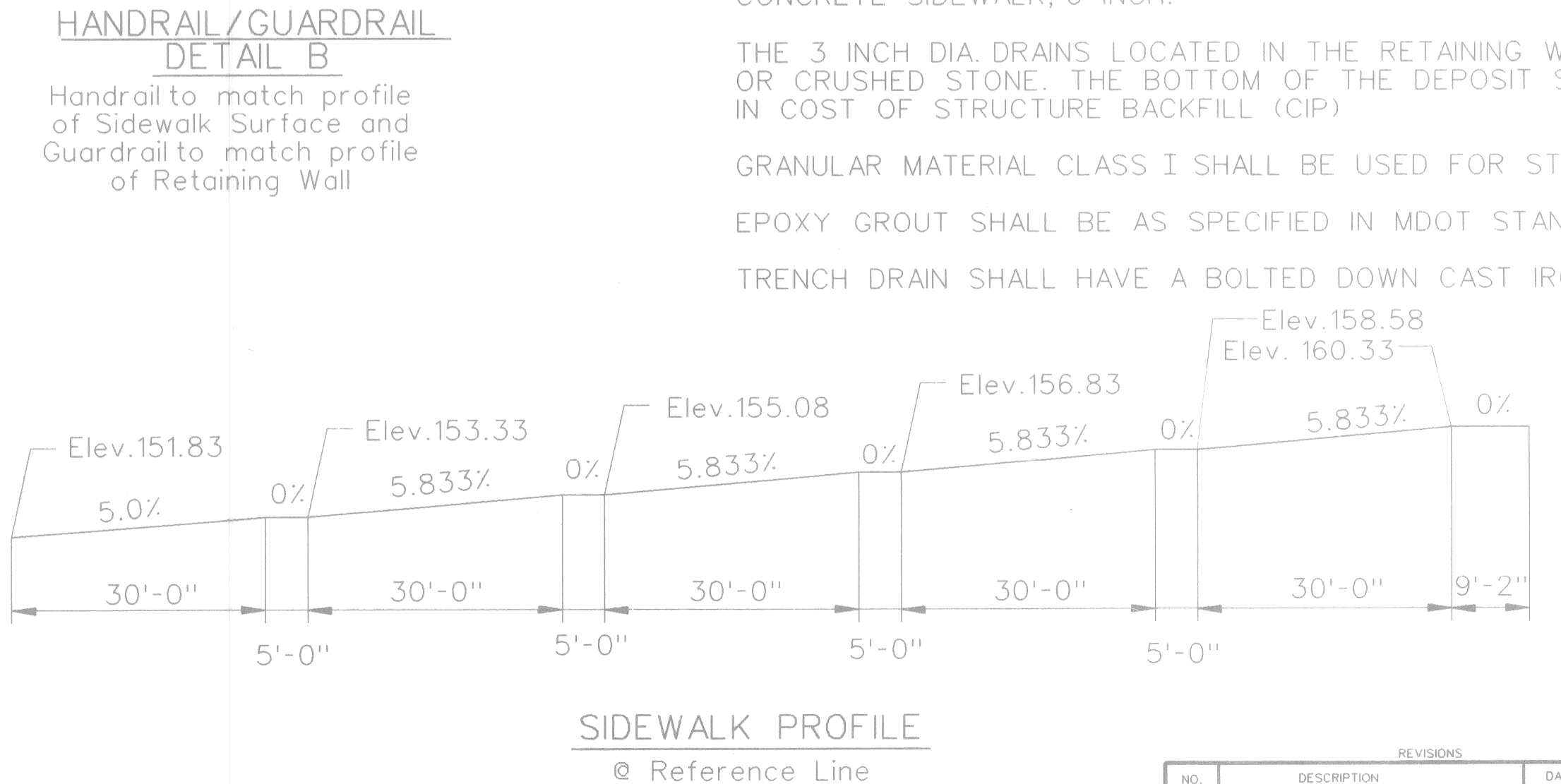
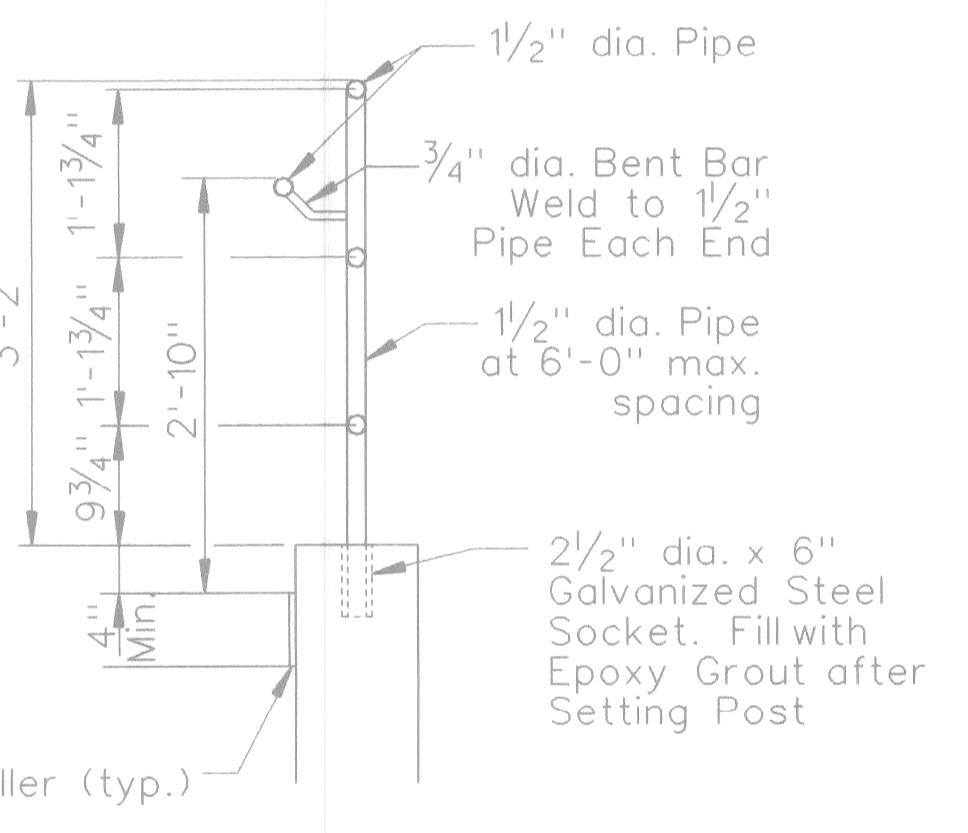
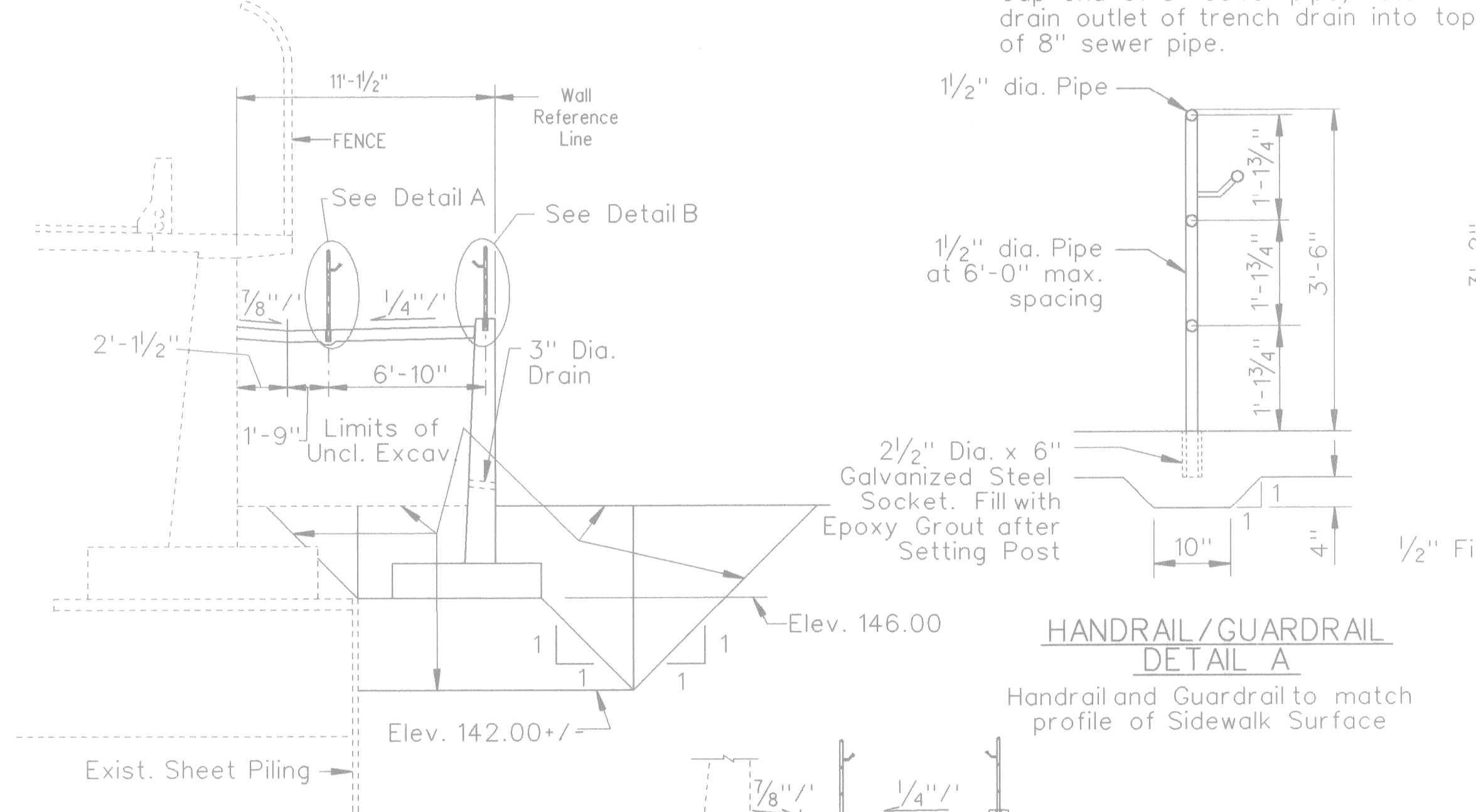
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SIDEWALK JOINTS:
 TRANSVERSE EXPANSION JOINTS (WITH 1/2" FILLER) SHALL BE CONSTRUCTED AT THE SAME LOCATION AS THE EXPANSION JOINTS IN THE NEW RETAINING WALL.
 ALL CUT TRANSVERSE JOINTS SHALL BE CONSTRUCTED AT 5 FOOT INTERVALS BETWEEN EXPANSION JOINTS.
 TRANSVERSE EXPANSION JOINTS IN THE 6 FOOT WIDE SIDEWALK SHALL BE CONSTRUCTED AT MAXIMUM 50 FOOT CENTERS.
 1/2" EXPANSION FILLER SHALL BE PLACED BETWEEN THE SIDEWALK AND THE NEW RETAINING WALL, AND PLACED BETWEEN THE SIDEWALK AND THE EXISTING RETAINING WALL.
 SEE MDOT STANDARD II-29E FOR DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS.

NOTES:
 FOR RETAINING WALL QUANTITIES, SEE SHEETS 21A, AND 21B.
 PIPE RAILING, GALVANIZED WILL BE MEASURED BY LENGTH IN LINEAR FEET OF TOP RAIL, FOR EACH RAILING REQUIRED, BASED ON THE DIMENSIONS SHOWN IN THE QUANTITIES AND AS DIRECTED BY THE CITY OF DETROIT. THE CONTRACT PRICE SHALL INCLUDE FURNISHING, FABRICATING, GALVANIZING, INSTALLING, AND GROUTING THE RAILING.
 THE CONCRETE SIDEWALK SHALL BE CONSTRUCTED AS NOTED IN THESE PLANS AND AS PER MDOT SPECIFICATION 6.11.
 THE SIDEWALK SHALL BE THICKENED AS SHOWN IN THE DETAILS AND SHALL BE INCLUDED IN THE COST OF CONCRETE SIDEWALK, 6 INCH.
 THE 3 INCH DIA. DRAINS LOCATED IN THE RETAINING WALL WILL HAVE A 2 FOOT CUBED VOLUME OF GRAVEL OR CRUSHED STONE. THE BOTTOM OF THE DEPOSIT SHALL BE 2 INCHES BELOW THE DRAIN HOLE. INCLUDED IN COST OF STRUCTURE BACKFILL (CIP).
 GRANULAR MATERIAL CLASS I SHALL BE USED FOR STRUCTURE BACKFILL (CIP).
 EPOXY GROUT SHALL BE AS SPECIFIED IN MDOT STANDARD SPECIFICATION 8.16.06b.
 TRENCH DRAIN SHALL HAVE A BOLTED DOWN CAST IRON GRATE AND A 6" DIA BOTTOM OUTLET.



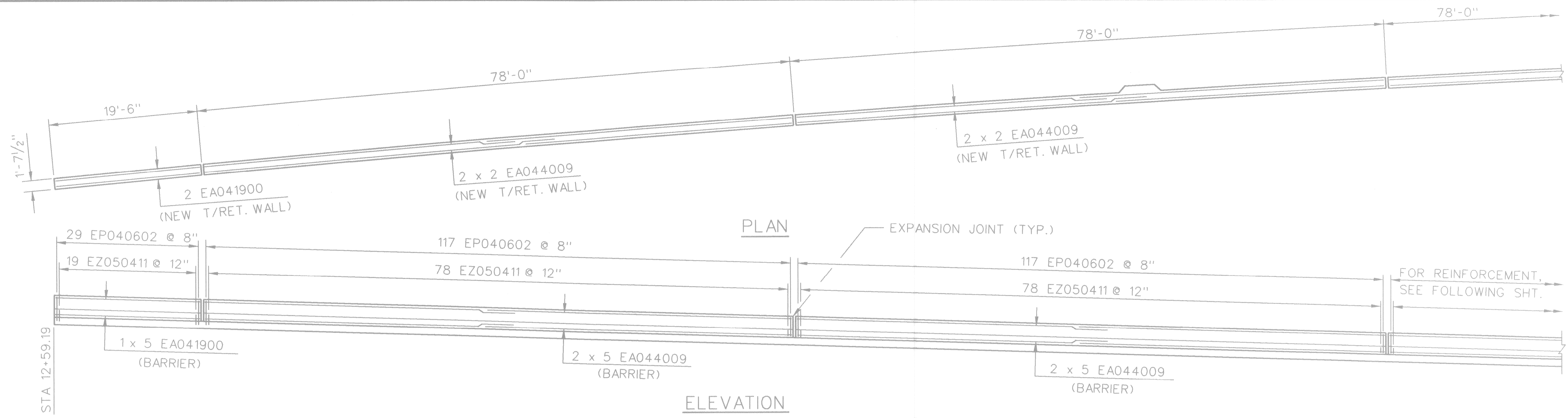
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 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 RETAINING WALL PLAN
 NORTH APPROACH

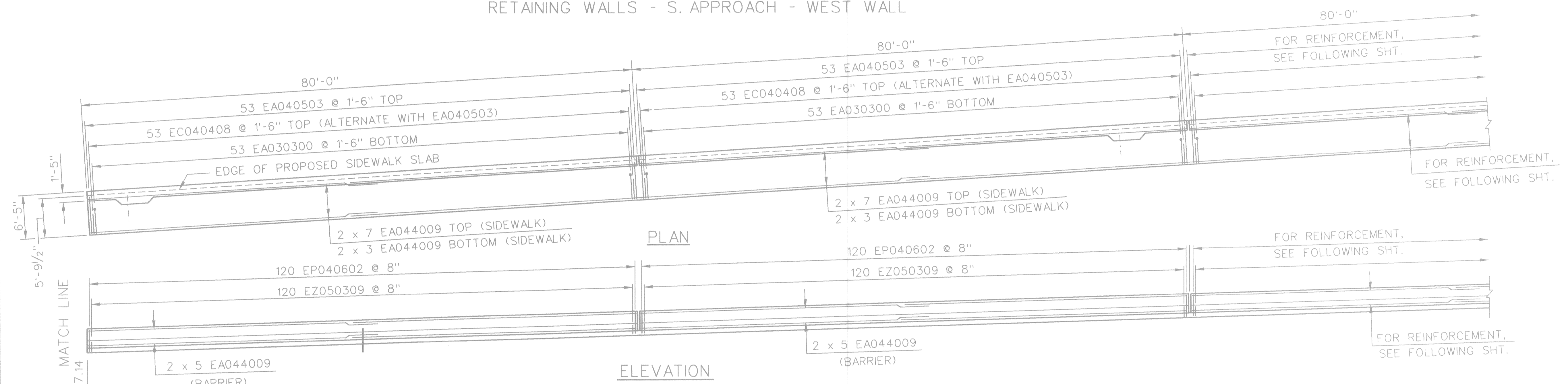
SQUAD BOSS		NAME		DATE	
DRAWN BY	NAME	LAR	DATE	8/95	
CHECKED BY	NAME	KR	DATE	10/95	
SHEET		17A OF		57	

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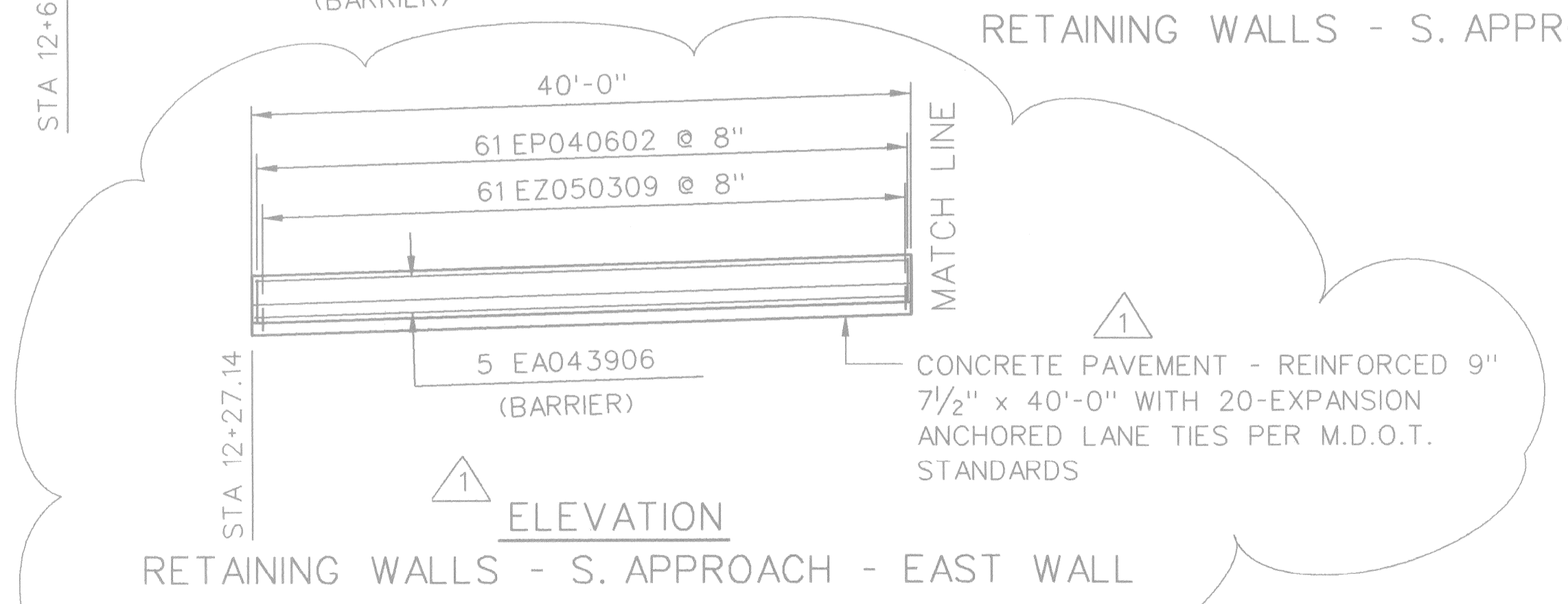
REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	NEW DRAWING	10/95	RAL



ELEVATION
RETAINING WALLS - S. APPROACH - WEST WALL



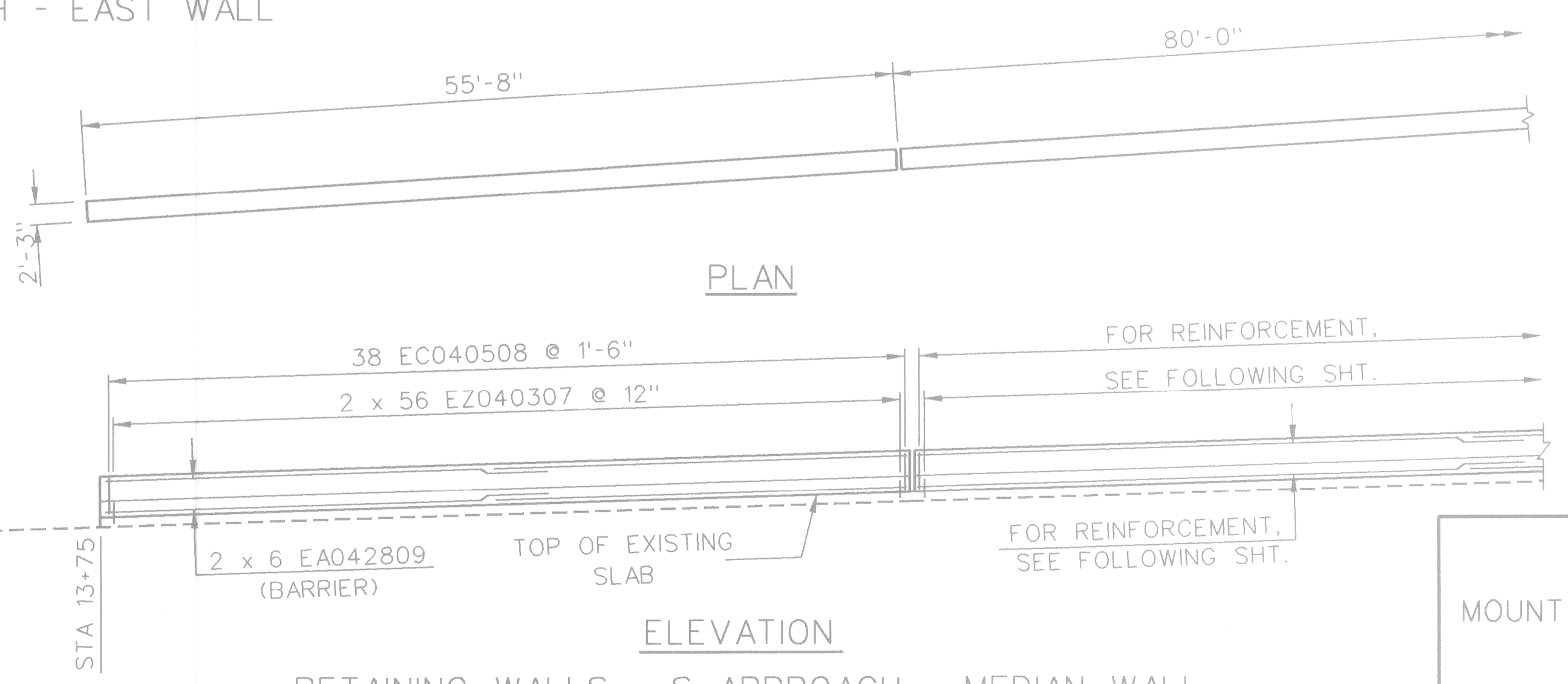
ELEVATION
RETAINING WALLS - S. APPROACH - EAST WALL



ELEVATION
RETAINING WALLS - S. APPROACH - EAST WALL

- 1 WORK THIS SHEET WITH SHEETS 16A AND 48A.
- 1 SEE TYPICAL EAST BARRIER & SIDEWALK SHEET 21 FOR DETAILS OF BARRIER

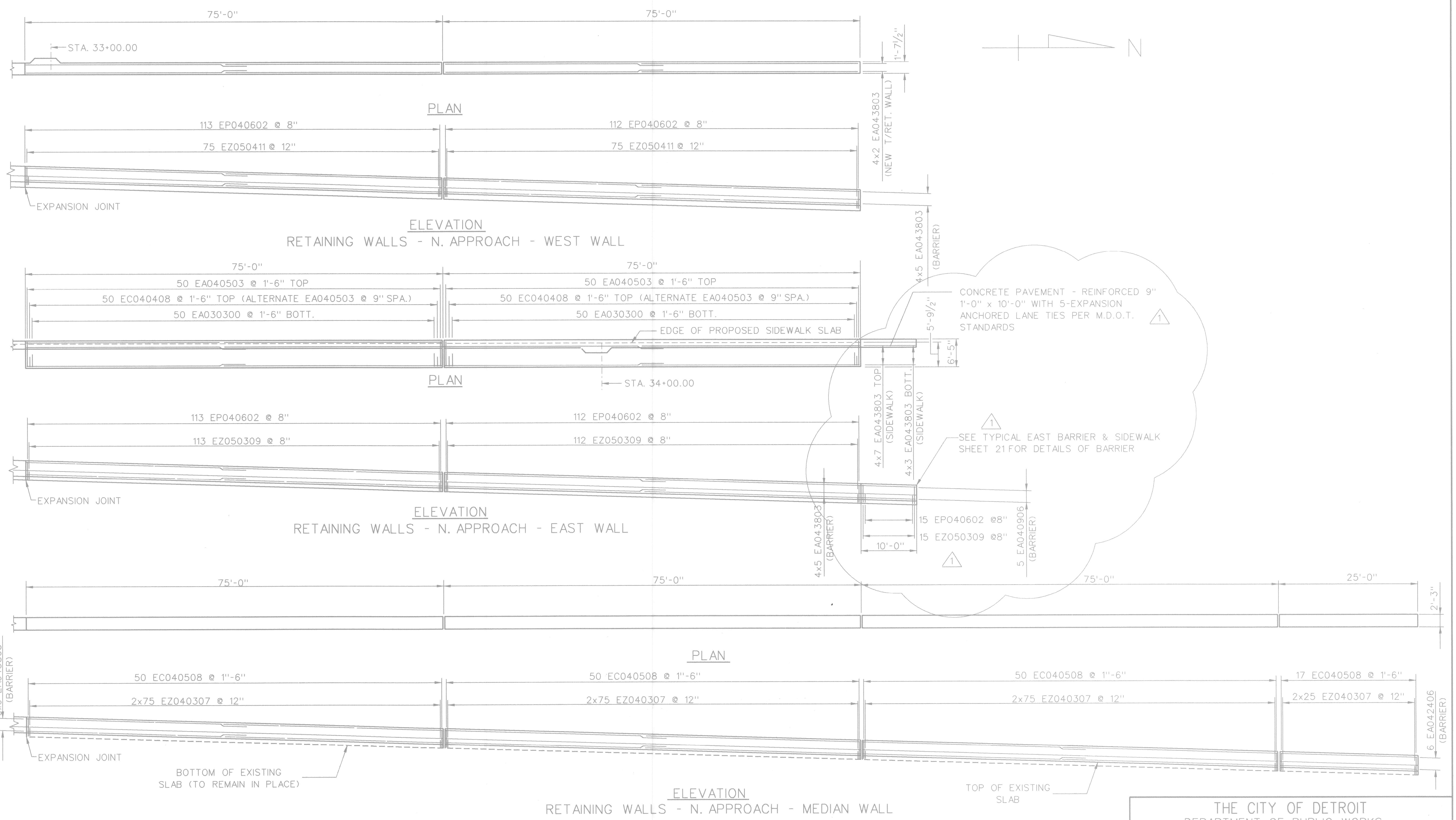
BOTTOM OF EXISTING SLAB (TO REMAIN IN PLACE)



ELEVATION
RETAINING WALLS - S. APPROACH - MEDIAN WALL

NOTES:
WORK THIS SHEET WITH SHEETS 19, 20 AND 48.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	LENGTHENING EAST BARRIER WALL	10/95	RAL



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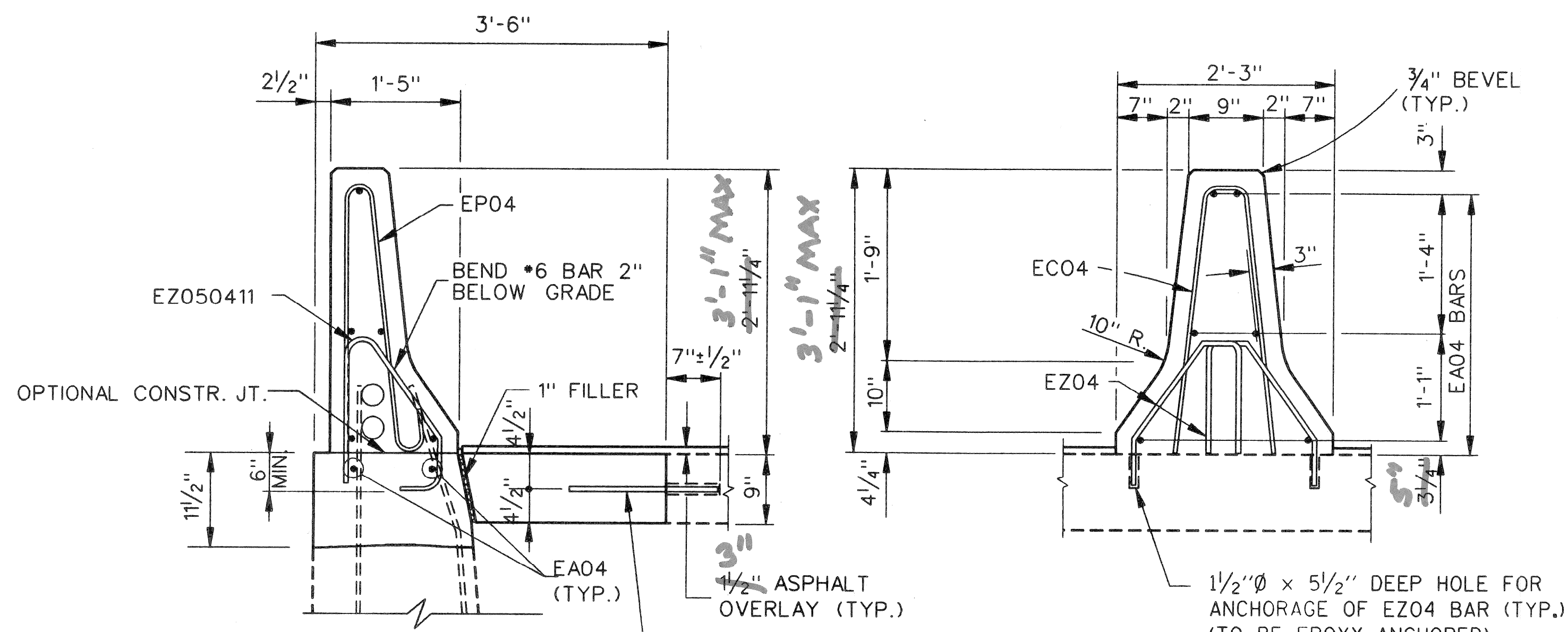
NOTES:
 WORK THIS SHEET WITH SHEETS 21 AND 48.
 1 WORK THIS SHEET WITH SHEETS 17A, 21B & 48A.

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	Lengthen East Barrier Wall	10/95	Rai

THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 RETAINING WALLS
 STA. 33+00 TO 34+50

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE 11/93
CHECKED BY	NAME	DATE 1/94
SHEET 20 OF 57		

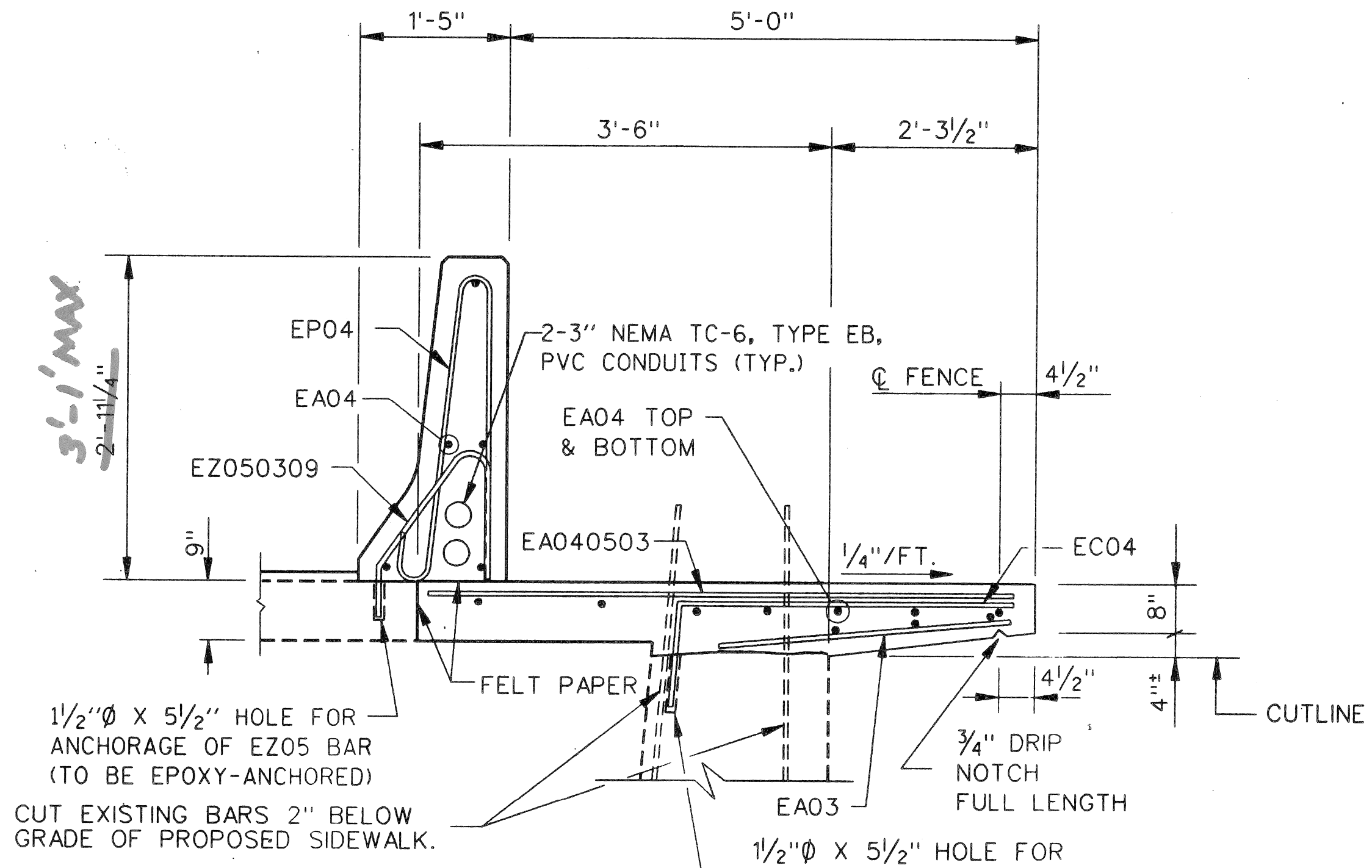
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TYPICAL WEST BARRIER

TYPICAL MEDIAN BARRIER SECTION

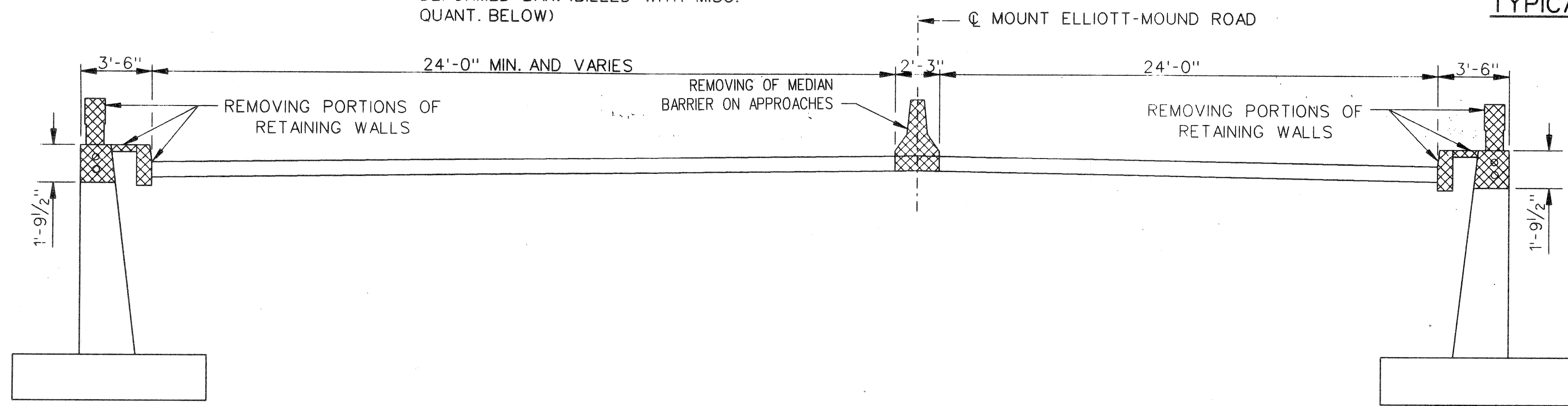
EXPANSION ANCHORED DRILL 3/4" Ø HOLE INTO EXISTING PAVEMENT, AND GROUT-IN-PLACE #5 x 1'-6" LONG EPOXY-COATED DEFORMED BAR. (BILLED WITH MISC. QUANT. BELOW)



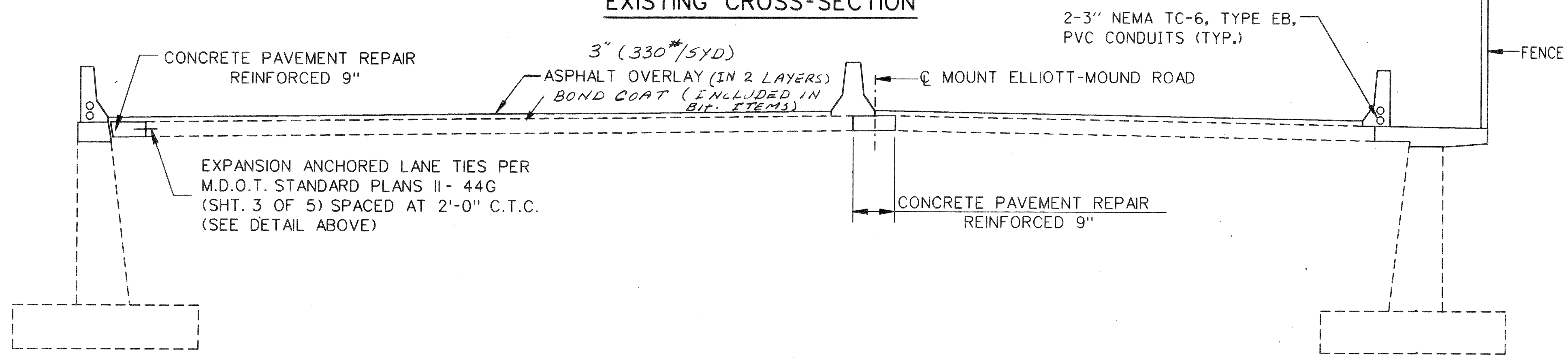
TYPICAL EAST BARRIER & SIDEWALK

NOTES:
 POUR SLAB AGAINST EXISTING PAVEMENT
 CUT EXISTING VERTICAL BARS 2" BELOW FINAL SLAB ELEVATION
 3/4" BEVEL ALL EXTERIOR EDGES
 ALL REINFORCING 2" CLEAR
 THE 3" ASPHALT OVERLAY SHALL NOT BE APPLIED TO THE SIDEWALK.
 EZ04 BARS IN MEDIAN AND EZ05 BARS IN EAST BARRIER TO BE EPOXY ANCHORED.
 THE TYPICAL WEST, TYPICAL MEDIAN, AND TYPICAL EAST (AND SIDEWALK) BARRIER SECTIONS ARE APPLICABLE TO BOTH THE NORTH AND SOUTH ABUTMENTS.

WORK THIS SHEET WITH SHEETS 18, 19, 20, & 48
 FOR WEST BARRIER PAVEMENT WIDENING, MATCH EXISTING CROSS SLOPE.
 BOND COAT OVER EXISTING CONCRETE - INCLUDED IN BIT. ITEMS.
 LEGEND: [Hatched Box] DENOTES CONCRETE TO BE REMOVED, TO BE PAID AS NOTED ON DRAWING.



EXISTING CROSS-SECTION



PROPOSED CROSS-SECTION

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD.) FOR RAILING REPLACEMENT	LFT	1075
CONCRETE MEDIAN BARRIER (SP)	LFT	550
EPOXY ANCHORING OF VERTICAL BAR, 1/2"	EACH	1467
EPOXY ANCHORING OF VERTICAL BAR, 5/8"	EACH	795
EXPANSION-ANCHORED LANE TIES	EACH	272

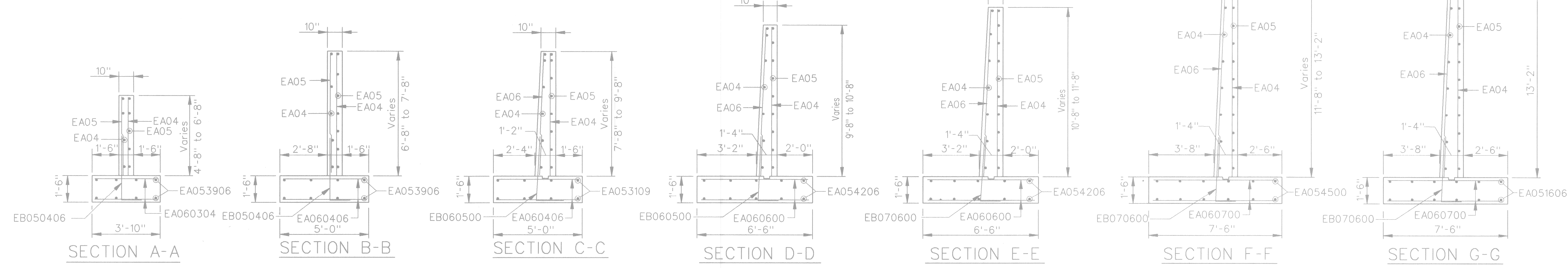
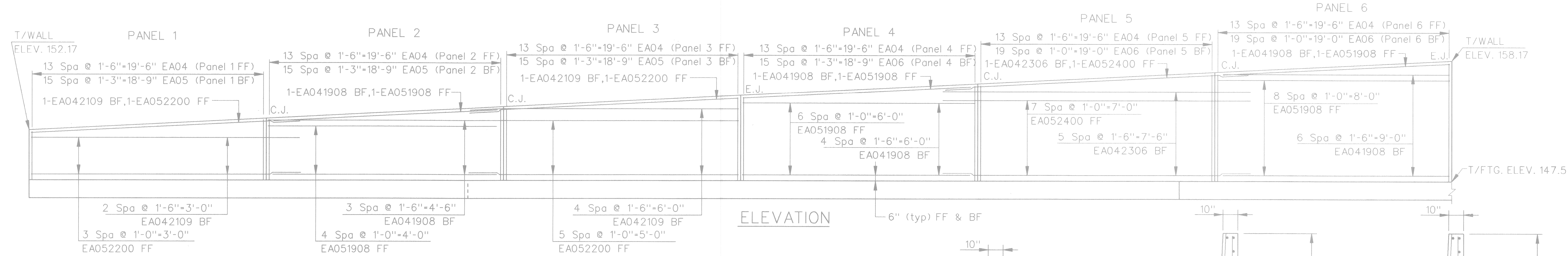
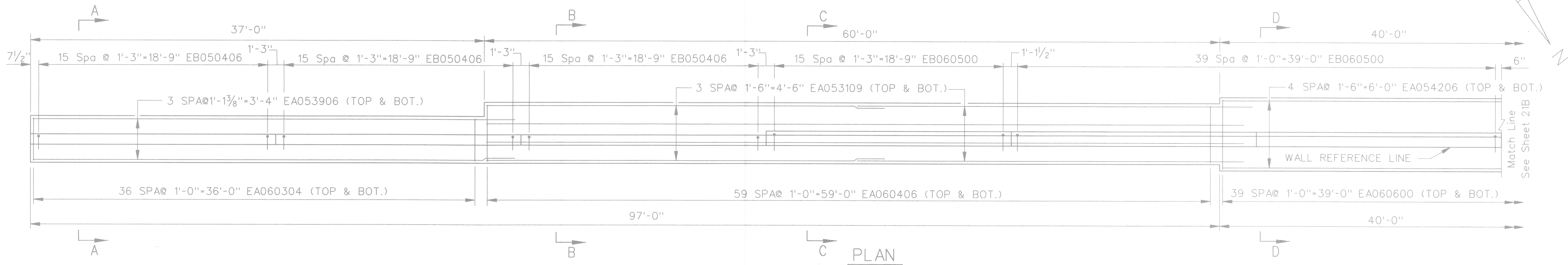
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REVISIONS			
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THE CITY OF DETROIT
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 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 NORTH/SOUTH APPROACH - DETAILS

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE 11/93
CHECKED BY	NAME	DATE 1/94
SHEET 21 OF 57		
B01 of 82-22-48		

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NOTES:
 EA04 bar @ 18" ctrs backface horizontal
 EA05 bar @ 12" frontface horizontal
 Panels 1 to 9 = 20'-0" Each
 Max. Soil Pressure Under Footing=3 KSF
 Reinforcement Cover = 3" Min.

NOTES:
 C.J. Denotes Construction Joint
 E.J. Denotes Expansion Joint.
 T/Wall Denotes Top of Wall.
 T/Ftg. Denotes Top of Footing.
 BF Denotes Back Face.
 FF Denotes Front Face.
 Panels 4 to 10 to have 1/2"x4" Key.

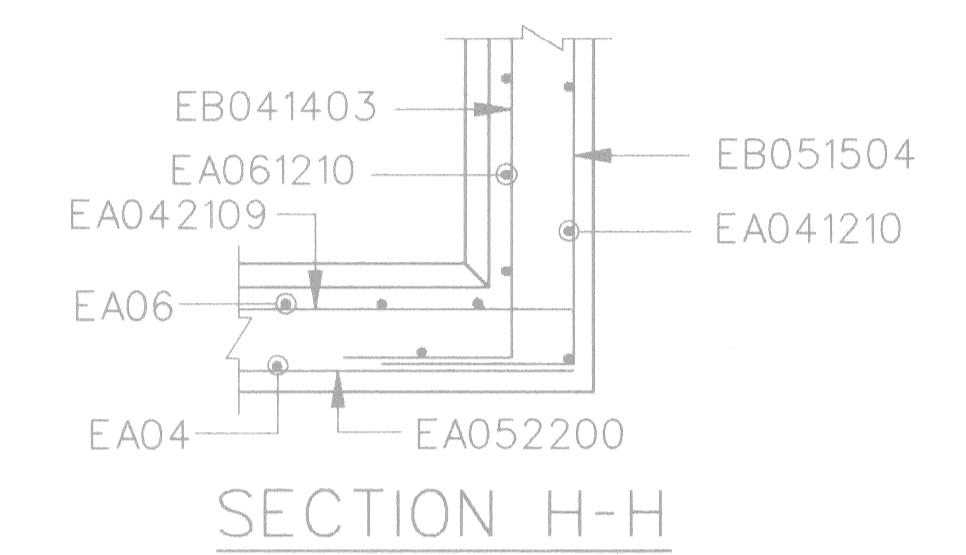
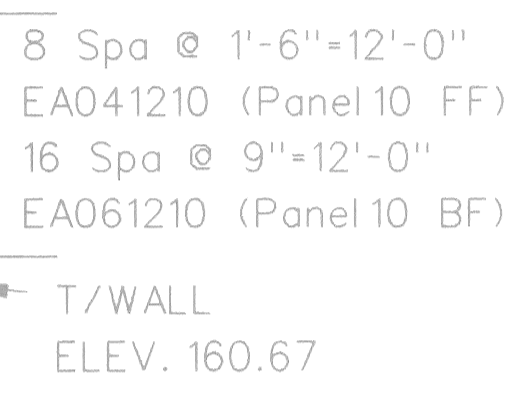
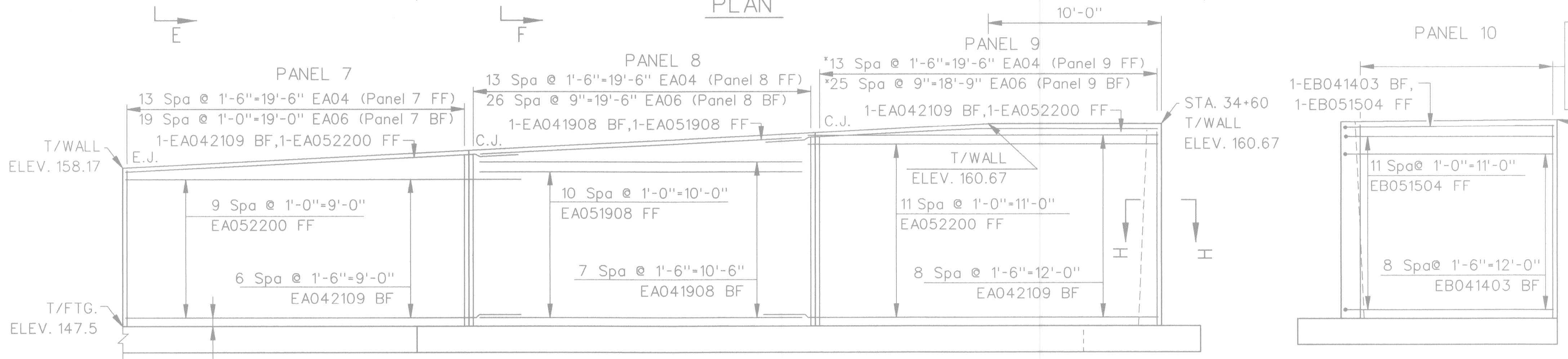
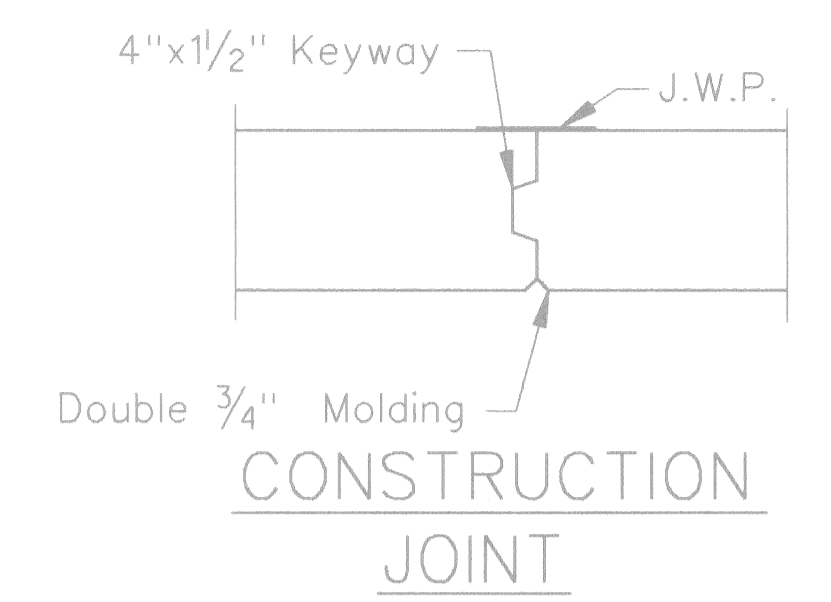
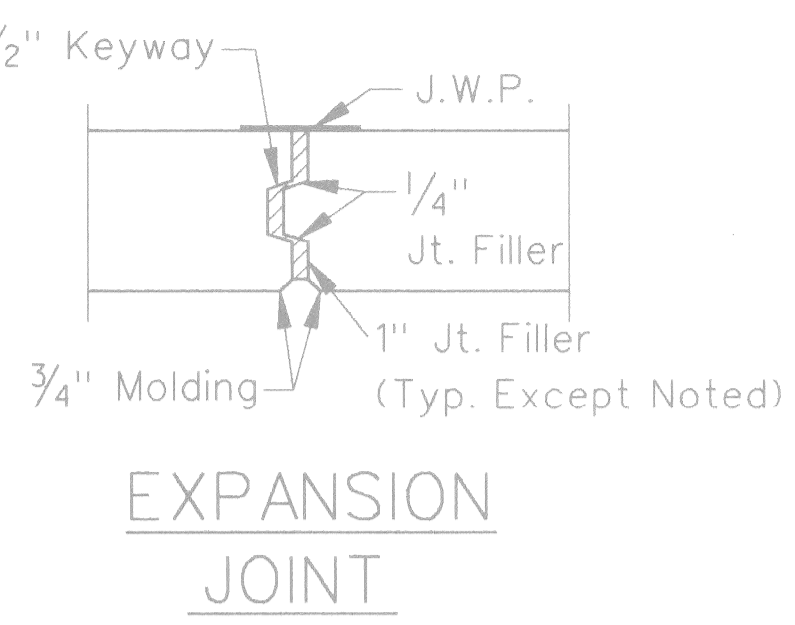
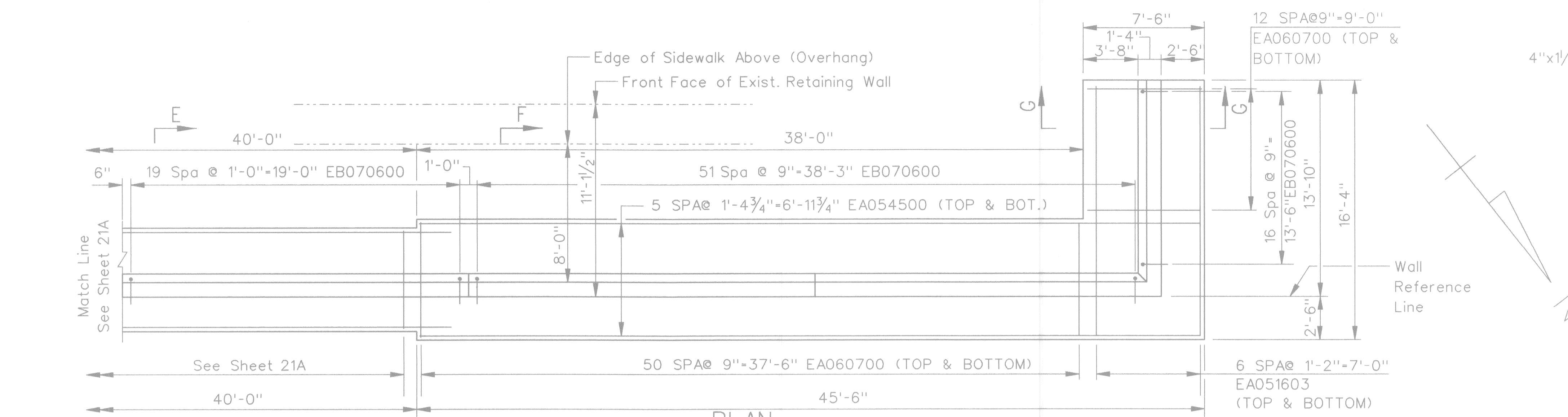
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1	NEW DRAWING	10/95	RAL

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 NORTH SIDEWALK RETAINING WALL 1

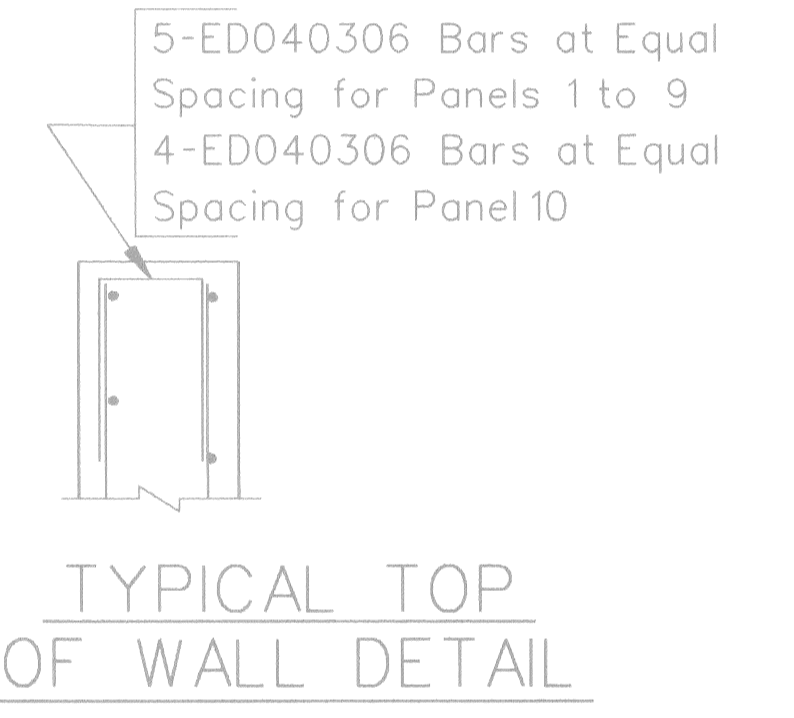
SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE 08/95
CHECKED BY	NAME	DATE 10/95
SHEET	21A	OF 57

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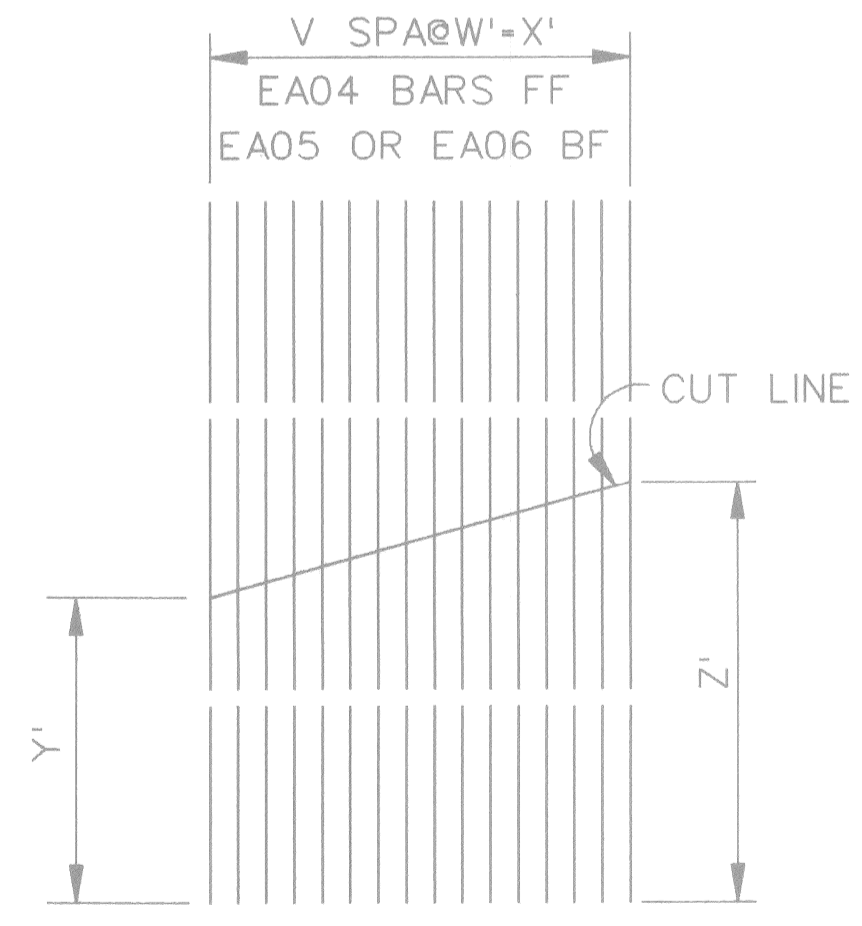


SUBSTRUCTURE CONCRETE QUANTITY

LOCATION	CYD
FOOTING	61.6
Panel 1	3.2
Panel 2	3.8
Panel 3	4.2
Panel 4	6.1
Panel 5	6.8
Panel 6	8.2
Panel 7	9.0
Panel 8	9.8
Panel 9	10.5
Panel 10	6.9
Total	130.3



MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
JOINT WATER PROOFING	SFT	73.4
UNCLASSIFIED FOUNDATION EXCAVATION	CYD	832.3
STRUCTURE BACKFILL (CIP)	CYD	1157.2
CONCRETE SIDEWALK, 6 INCH	SFT	2663
PIPE RAILING, GALVANIZED STEEL	LFT	368
REMOVING CURB	LFT	10
EXPANSION-ANCHORED LANE-TIES	EACH	5
CONCRETE PAVEMENT REPAIR-REINFORCED 9"	SYD	1.1
BRIDGE BARRIER RAILING, TYPE 5(MOD) FOR RAILING REPLACEMENT	LFT	10
REMOVING SIDEWALK	SYD	16.7
EPOXY ANCHORING OF VERTICAL BARS, 5/8"	EACH	15
EPOXY ANCHORING OF VERTICAL BARS, 1/2"	EACH	15
CLASS A SEWER, 8", TRENCH DETAIL A	LFT	141
TRENCH DRAIN	LFT	8



NOTE: REINFORCEMENT IS TO BE SHOP CUT BEFORE EPOXY COATING IS APPLIED.

REBAR CUT LIST						
LOCATION	BAR NO.	V	W'	X'	Y'	Z'
PANEL 1 FF	EA040910	6	1'-6"	9'-0"	4'-5"	4'-10 1/2"
PANEL 1 BF	EA050910	7	1'-3"	8'-9"	4'-5"	4'-10 1/2"
PANEL 2 FF	EA041110	6	1'-6"	9'-0"	5'-5"	5'-10 1/2"
PANEL 2 BF	EA051110	7	1'-3"	8'-9"	5'-5"	5'-10 1/2"
PANEL 3 FF	EA041310	6	1'-6"	9'-0"	6'-5"	6'-10 1/2"
PANEL 3 BF	EA061310	7	1'-3"	8'-9"	6'-5"	6'-10 1/2"
PANEL 4 FF	EA041510	6	1'-6"	9'-0"	7'-5"	7'-10 1/2"
PANEL 4 BF	EA061510	7	1'-3"	8'-9"	7'-5"	7'-10 1/2"
PANEL 5 FF	EA041710	6	1'-6"	9'-0"	8'-5"	8'-10 1/2"
PANEL 5 BF	EA061710	9	1'-0"	9'-0"	8'-5"	8'-10 1/2"
PANEL 6 FF	EA041910	6	1'-6"	9'-0"	9'-5"	9'-10 1/2"
PANEL 6 BF	EA061910	9	1'-0"	9'-0"	9'-5"	9'-10 1/2"
PANEL 7 FF	EA042110	6	1'-6"	9'-0"	10'-5"	10'-10 1/2"
PANEL 7 BF	EA062110	9	1'-0"	9'-0"	10'-5"	10'-10 1/2"
PANEL 8 FF	EA042310	6	1'-6"	9'-0"	11'-5"	11'-10 1/2"
PANEL 8 BF	EA062310	13	0'-9"	9'-9"	11'-5"	11'-10 1/2"
PANEL 9 FF	EA042503	2	1'-6"	3'-0"	12'-5"	12'-7"
PANEL 9 BF	EA062503	6	0'-9"	4'-6"	12'-5"	12'-7 3/4"

NOTES:
 C.J. Denotes Construction Joint
 E.J. Denotes Expansion Joint.
 T/Wall Denotes Top of Wall.
 T/Ftg. Denotes Top of Footing.
 BF Denotes Back Face.
 FF Denotes Front Face.
 Panels 4 to 10 to Have 1/2"x4" Key.
 Panels 1 to 9 = 20'-0" Each

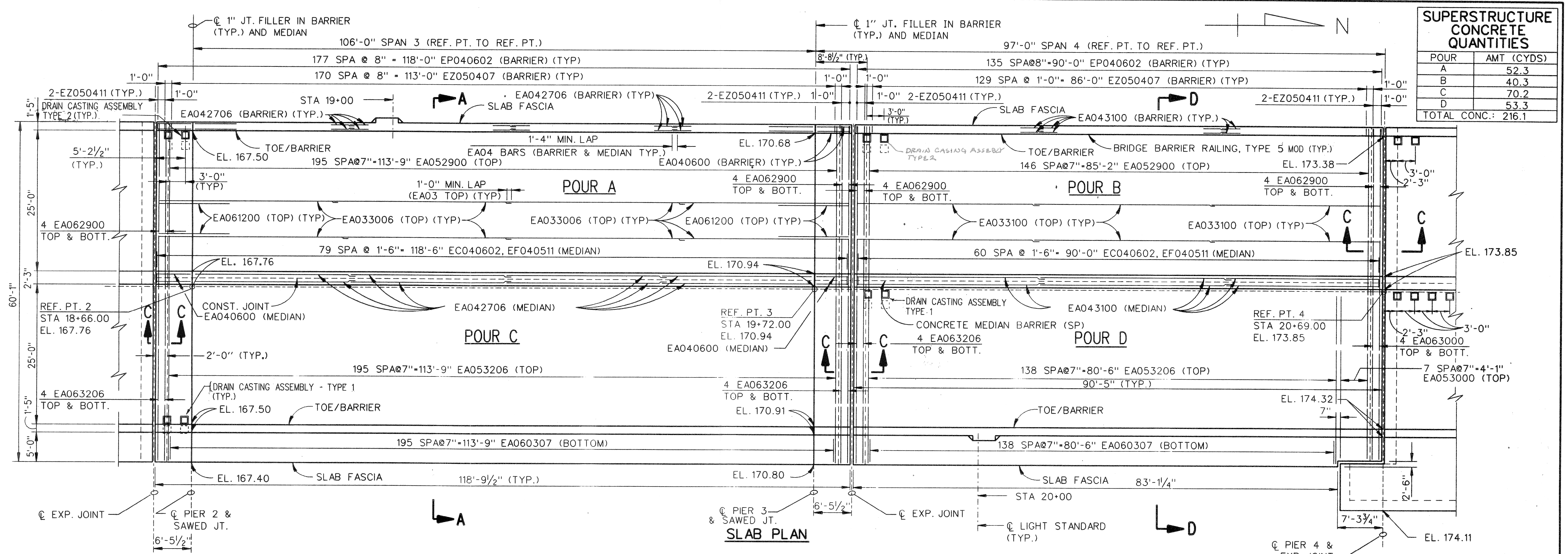
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 NORTH SIDEWALK RETAINING WALL 2

SQUAD BOSS	NAME	DATE
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CHECKED BY	NAME KR	DATE 10/95
SHEET 21B OF 57		

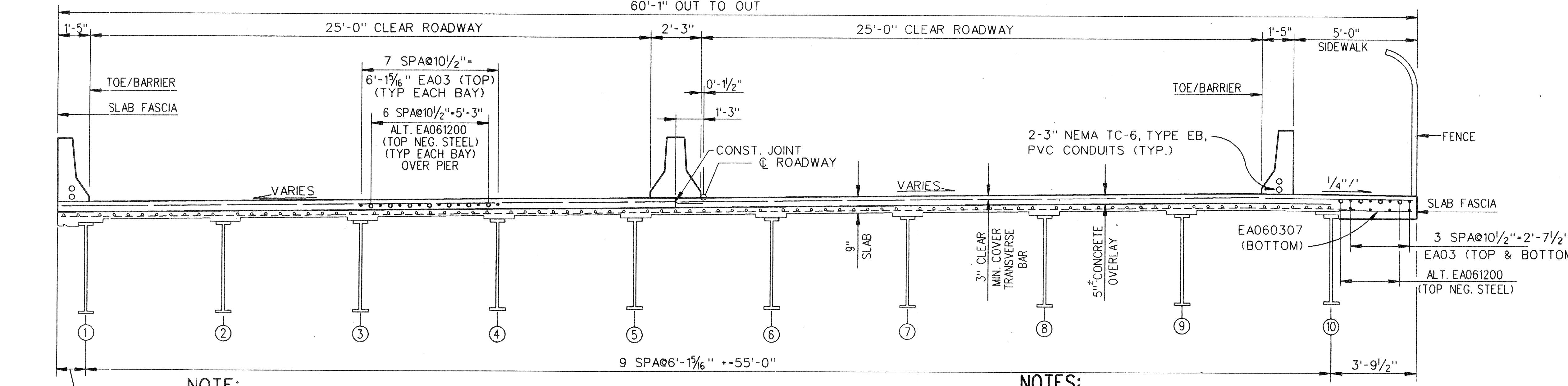
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SUPERSTRUCTURE CONCRETE QUANTITIES

POUR	AMT (CYDS)
A	52.3
B	40.3
C	70.2
D	53.3
TOTAL CONC.	216.1



MISCELLANEOUS QUANTITIES

ITEM	UNIT	AMOUNT	
		SPAN 3	SPAN 4
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	237.5	180.8
CONCRETE MEDIAN BARRIER (SP.)	LFT	118.8	90.4
SCARIFYING	SYD	760.9	579.3
HYDRODEMOLISHING - FIRST PASS	SYD	760.9	579.3
HYDRODEMOLISHING - SECOND PASS	SYD	43.8	6.7
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	2	2
CONSTRUCTING BRIDGE DECK SURFACE	SYD	718.8	541.3
FALSE DECKING	SYD	0	250.0
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	2	2

NOTE:
 SCREEDS AFFECTED BY LOADS IN OTHER SPANS ARE TO BE SET TO THE ELEVATIONS SHOWN BEFORE CASTING ANY CONCRETE. CONCRETE IN THE SUSPENDED SPANS IS TO BE CAST BEFORE THE CONCRETE IN THE ANCHOR SPANS.

NOTES:
 FORMING, FINISHING, AND CURING SUPERSTRUCTURE CONCRETE WILL BE MEASURED AS A LUMP SUM UNIT FOR THE 3'-9 1/2" OVERHANG ON SPANS 1, 2, 3, & 4 FOR ALL OF SPAN 16 AND THE 2 FOOT DECK JOINT REPLACEMENT AT PIERS 1 TO 14, AND THE 1'-6" DECK REPLACEMENT ON SPANS 5 TO 15.

NOTES:
 WORK THIS SHEET WITH SHEETS 26, 27, 33, AND 35 THRU 51.
 FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS 52 & 53.
 SCREED ELEVATIONS ARE BASED ON THE CONDITION THAT NO CONCRETE OVERLAY HAS BEEN CAST.
 OUTER SCREED RAILS FOR FINISHING OF CONCRETE SHALL BE LOCATED OVER FASCIA BEAM AND OVER THE SLAB ADJACENT TO CONSTRUCTION JOINT.

SECTION ELEVATIONS

	EXPJKT	PIER 2	1/4	1/2	3/4	PIER 3	EXPJKT	1/4	1/2	3/4	PIER 4
WEST BARRIER	167.31	167.50	168.30	169.09	169.89	170.68	170.87	171.55	172.23	172.82	173.38
MEDIAN WEST	167.57	167.76	168.56	169.35	170.15	170.94	171.13	171.81	172.49	173.17	173.85
CONST. JT.	167.57	167.76	168.56	169.35	170.15	170.94	171.13	171.81	172.49	173.17	173.85
MEDIAN EAST	167.57	167.76	168.56	169.35	170.15	170.94	171.13	171.81	172.49	173.17	173.85
EAST BARRIER	167.31	167.50	168.30	169.09	169.89	170.68	170.87	171.55	172.23	172.82	173.38

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SUPERSTRUCTURE DETAILS

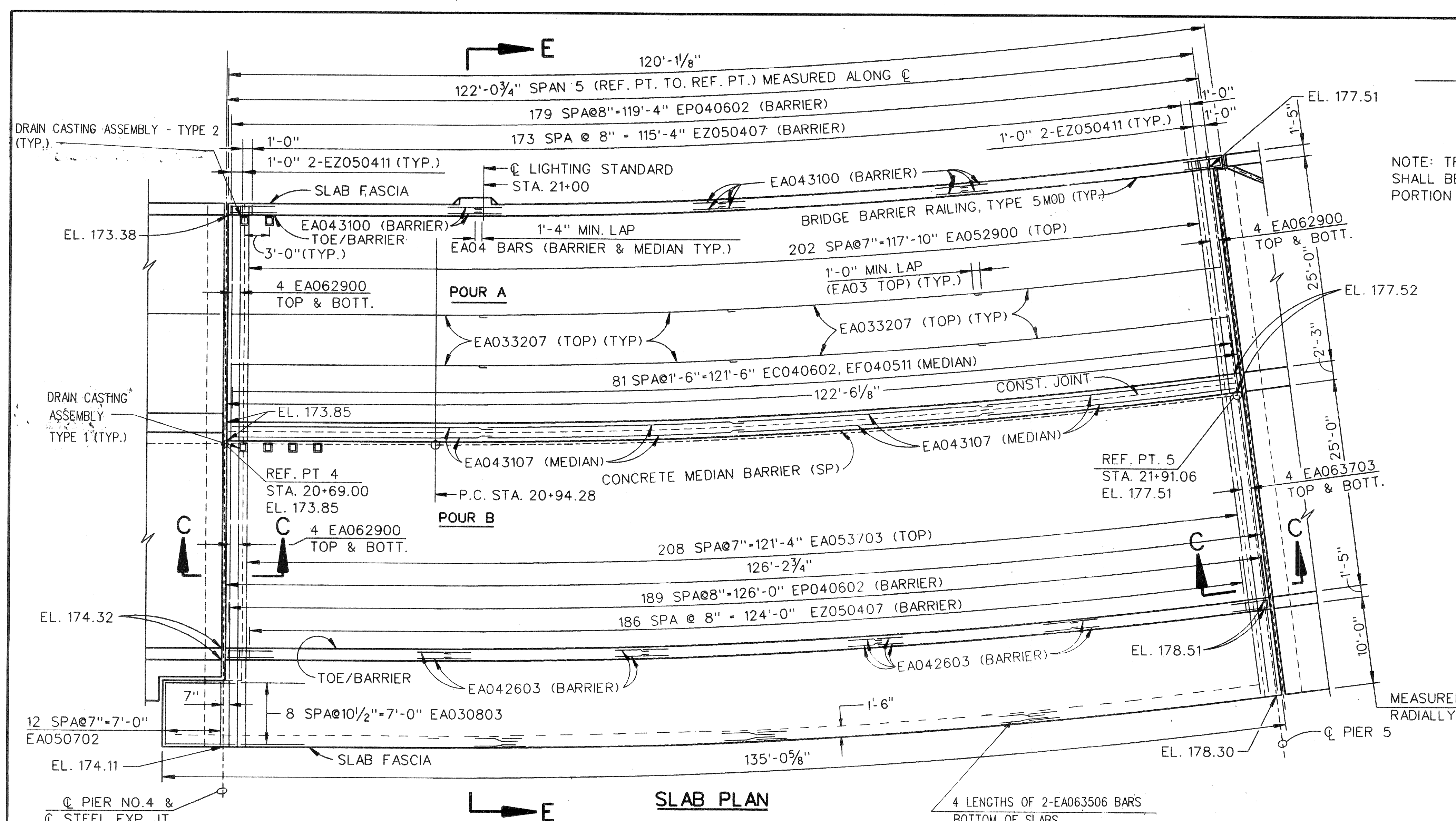
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SQUAD BOSS	NAME	DATE

CHECKED BY	NAME	DATE

SHEET 34 OF 57
B01 of 82-22-48

CONTROL SECTION B01 OF 822248 JOB NO. SH. NO. 35



NOTE: TRANSVERSE REINFORCING STEEL SHALL BE PLACED RADIALLY IN CURVED PORTION OF SLAB.

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	246.3
CONCRETE MEDIAN BARRIER (SP.)	LFT	122.5
SCARIFYING	SYD	882.3
HYDRODEMOLISHING - FIRST PASS	SYD	882.3
HYDRODEMOLISHING - SECOND PASS	SYD	40.6
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	4
CONSTRUCTING BRIDGE DECK SURFACE	SYD	862.6
FALSE DECKING	SYD	882.0
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	2

SUPERSTRUCTURE CONCRETE QUANTITIES	
POUR	AMT (CYDS)
A	53.4
B	75.9
TOTAL CONC.: 129.3	

NOTES:

WORK THIS SHEET WITH SHEETS 26, 27, 33, 34 AND 36 THUR-51.

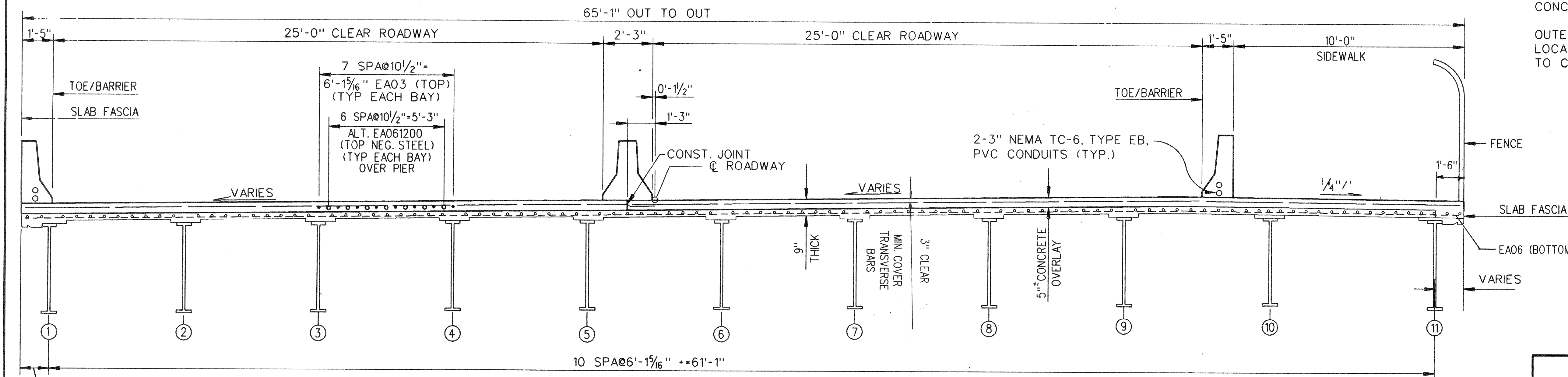
FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS 52 & 53.

SCREDS AFFECTED BY LOADS IN OTHER SPANS ARE TO BE SET TO THE ELEVATIONS SHOWN BEFORE CASTING ANY CONCRETE. CONCRETE IN THE SUSPENDED SPANS IS TO BE CAST BEFORE THE CONCRETE IN THE ANCHOR SPANS.

FORMING, FINISHING, AND CURING SUPERSTRUCTURE CONCRETE WILL BE MEASURED AS A LUMP SUM UNIT FOR THE 3'-9 1/2" OVERHANG ON SPANS 1, 2, 3, & 4 FOR ALL OF SPAN 16 AND THE 2 FOOT DECK JOINT REPLACEMENT AT PIERS 1 TO 14, AND THE 1'-6" DECK REPLACEMENT ON SPANS 5 TO 15.

SCREED ELEVATIONS ARE BASED ON THE CONDITION THAT NO CONCRETE OVERLAY HAS BEEN CAST.

OUTER SCREED RAILS FOR FINISHING OF CONCRETE SHALL BE LOCATED OVER FASCIA BEAM AND OVER THE SLAB ADJACENT TO CONSTRUCTION JOINT.



	SCREED ELEVATIONS				
	PIER 4	1/4	1/2	3/4	PIER 5
WEST BARRIER	173.38	174.14	174.89	175.66	176.51
MEDIAN WEST	173.85	174.77	175.68	176.60	177.51
CONST. JT.	173.85	174.77	175.68	176.60	177.51
MEDIAN EAST	173.85	174.77	175.68	176.60	177.51
EAST BARRIER	174.32	175.40	176.47	177.55	178.51

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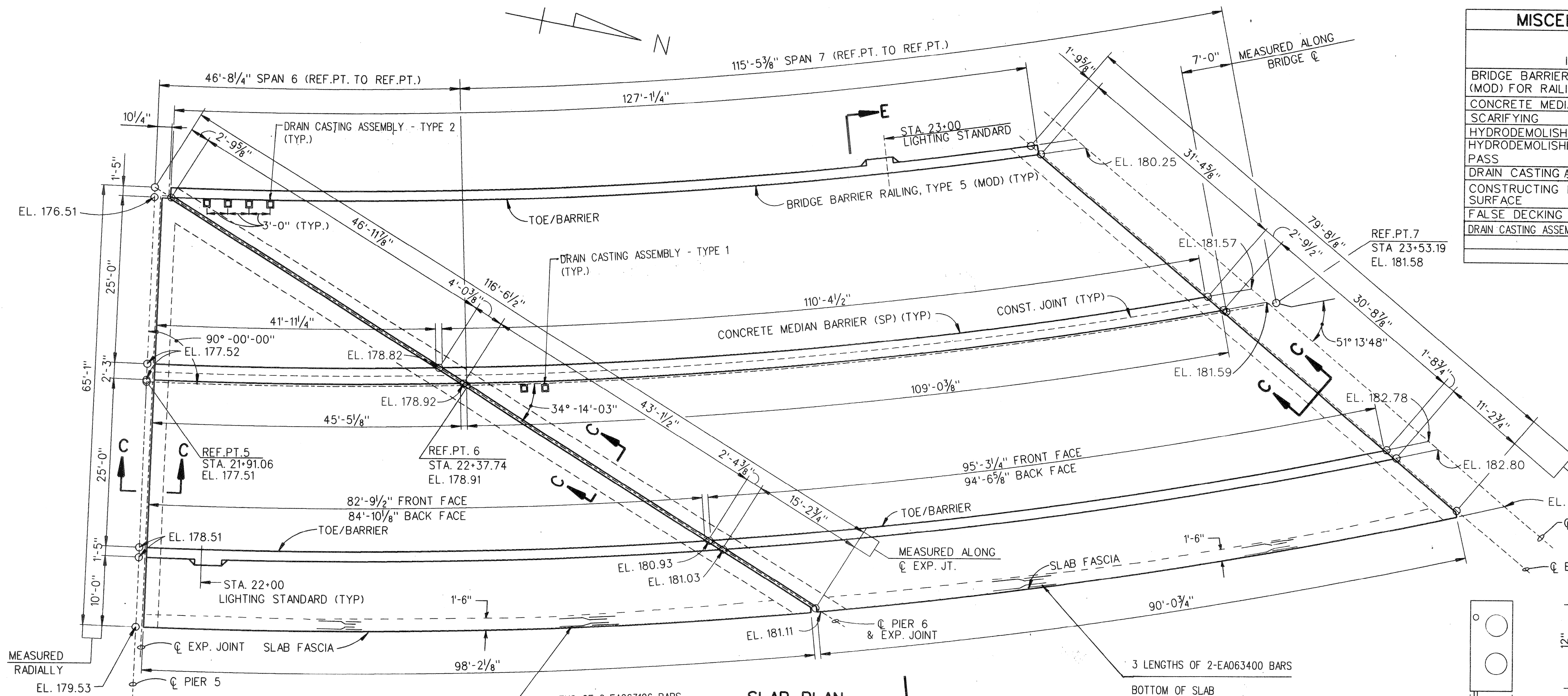
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SUPERSTRUCTURE DETAILS

SQUAD BOSS	NAME	DATE
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SHEET 35 OF 57		
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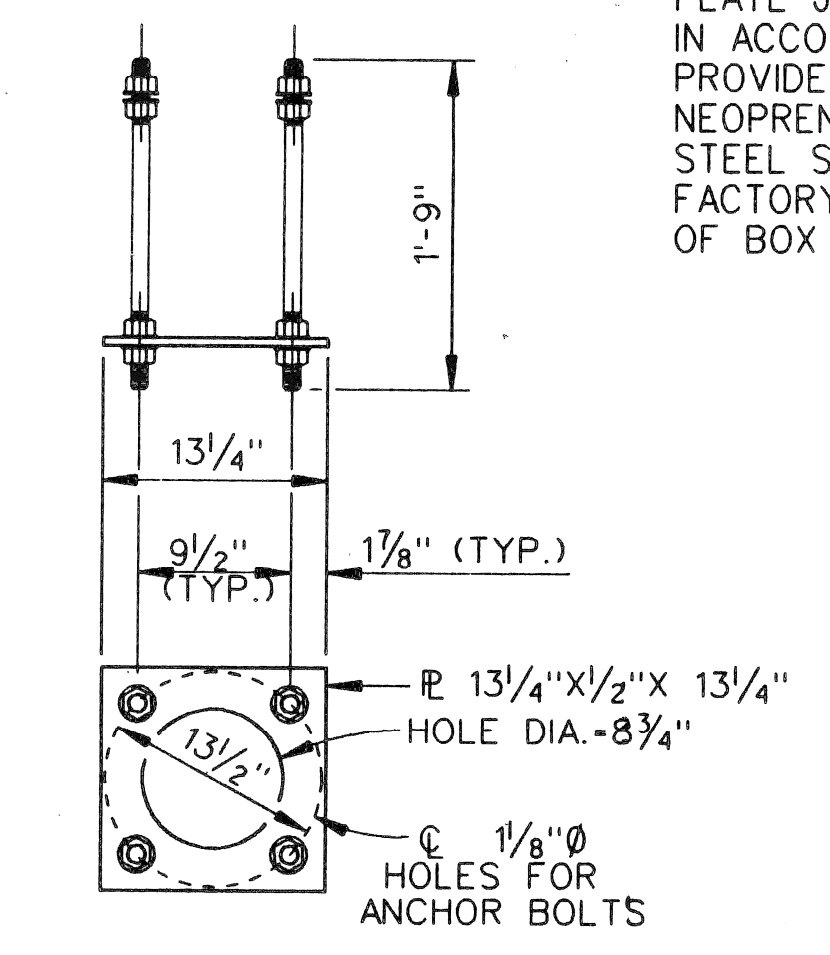
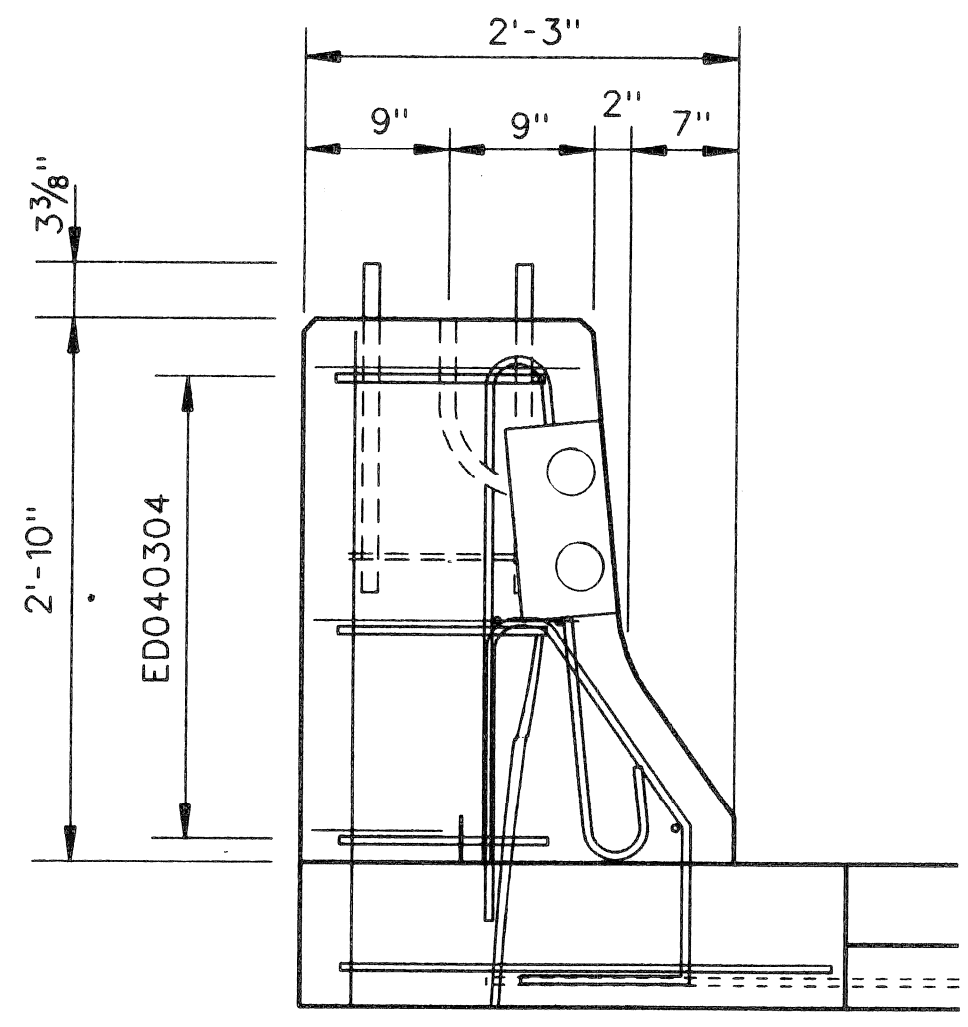
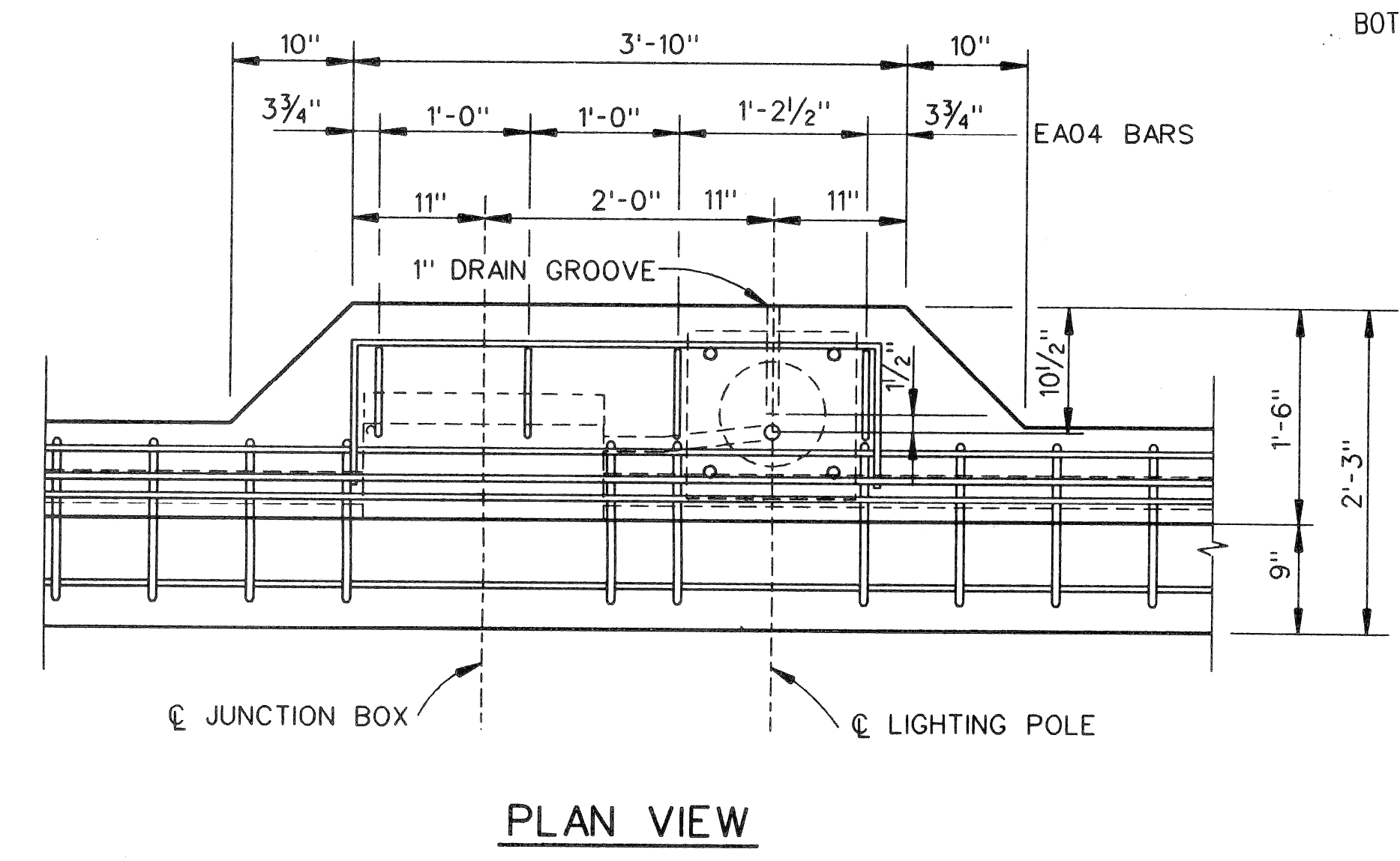
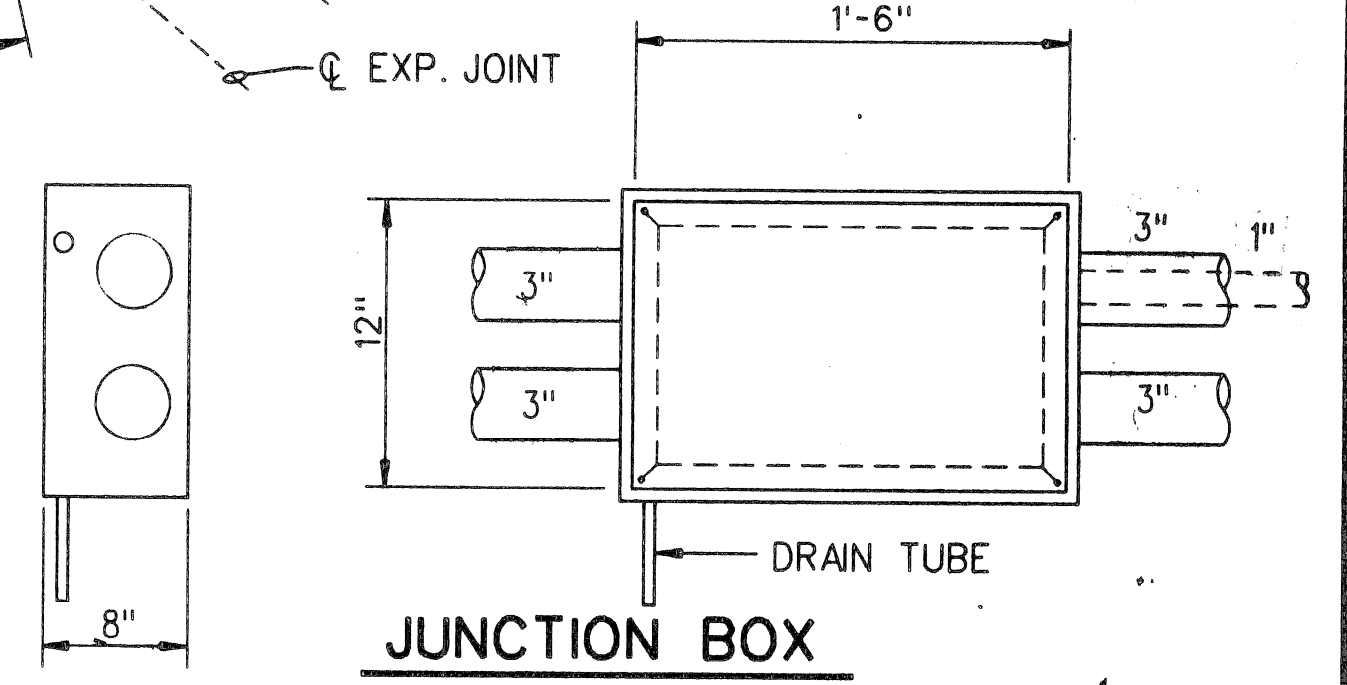
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MISCELLANEOUS QUANTITIES			
ITEM	UNIT	AMOUNT	
		SPAN 6	SPAN 7
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	82.8	219.4
CONCRETE MEDIAN BARRIER (SP.)	LFT	45.4	110.4
SCARIFYING	SYD	367.8	776.0
HYDRODEMOLISHING - FIRST PASS	SYD	367.8	776.0
HYDRODEMOLISHING - SECOND PASS	SYD	16.9	8.9
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	0	2
CONSTRUCTING BRIDGE DECK SURFACE	SYD	327.2	714.0
FALSE DECKING	SYD	368.0	776.0
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	0	4

SUPERSTRUCTURE CONCRETE QUANTITIES	
POUR	AMT (CYDS)
A	12.6
B	52.3
C	44.8
D	60.5
TOTAL CONC.: 170.2	



NOTES:

JUNCTION BOX: CAST-IRON OR WELDED STEEL PLATE JUNCTION BOX, HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM-A123 AFTER FABRICATION. PROVIDE A COVER AND WATERTIGHT CLOSED CELL NEOPRENE GASKET WITH BRASS OR STAINLESS STEEL SCREWS TO SECURE COVER. PROVIDE FACTORY INSTALLED GROUNDING STUD IN REAR OF BOX WITH HEX NUT, AS APPLICABLE.

WORK THIS SHEET WITH SHEETS 26, 27, 33, THRU 35 AND 37 THRU 51.

FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS &

ANCHOR BOLTS (4): 1" DIA X 1'-9", 4" THREAD EACH END AND 4 HEX NUTS, 2" X 3/8" SPRING LOCK WASHER, TOP ONLY.

ANCHOR BOLT ASSEMBLY: THE ASSEMBLY SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-153.

THE BID ITEM "LIGHT STANDARD ANCHOR ASSEMBLY FURNISHED AND PLACED" INCLUDES ALL WORK AND MATERIAL REQUIRED FOR INSTALLATION.

SET LIGHTING POLES TRULY VERTICAL WITH BASES LEVEL.

PROVIDE A MINIMUM 2 1/2" CONCRETE COVER FOR CONDUIT.

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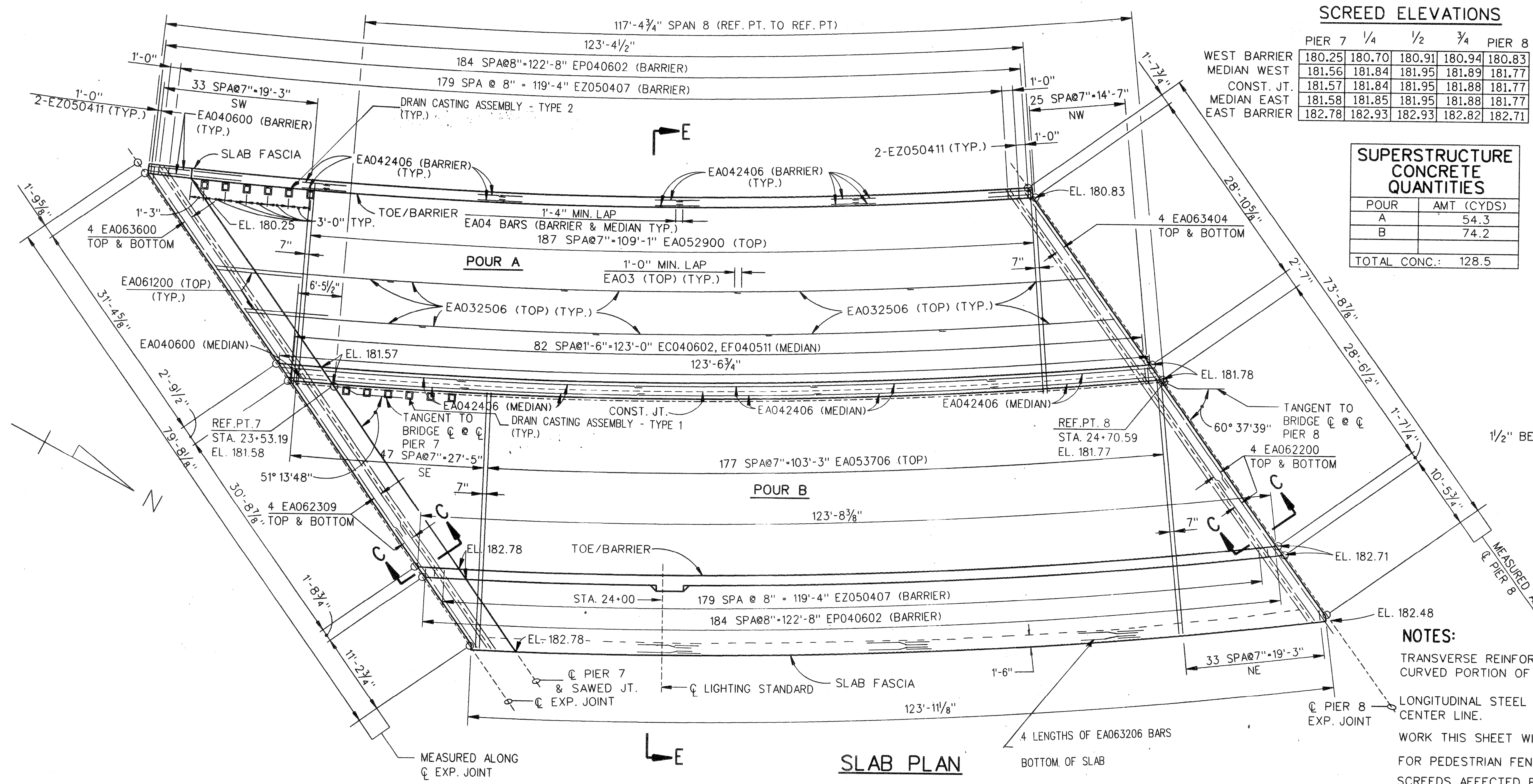
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NO.	DESCRIPTION	DATE	BY

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SHEET 36 OF 57
B01 of 82-22-48

SHEET NO. 38
 JOB NO. 822248
 CONTROL SECTION B01 OF 822248



SLAB PLAN

SCREED ELEVATIONS

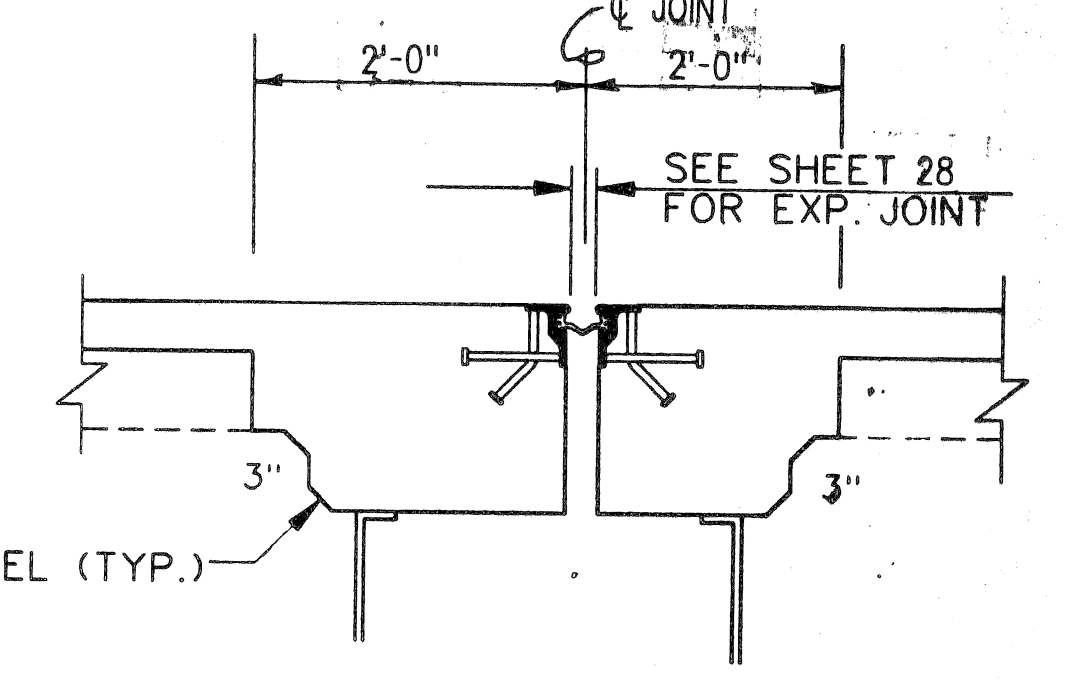
	PIER 7	1/4	1/2	3/4	PIER 8
WEST BARRIER	180.25	180.70	180.91	180.94	180.83
MEDIAN WEST	181.56	181.84	181.95	181.89	181.77
CONST. JT.	181.57	181.84	181.95	181.88	181.77
MEDIAN EAST	181.58	181.85	181.95	181.88	181.77
EAST BARRIER	182.78	182.93	182.93	182.82	182.71

SUPERSTRUCTURE CONCRETE QUANTITIES

POUR	AMT (CYDS)
A	54.3
B	74.2
TOTAL CONC.	128.5

MISCELLANEOUS QUANTITIES

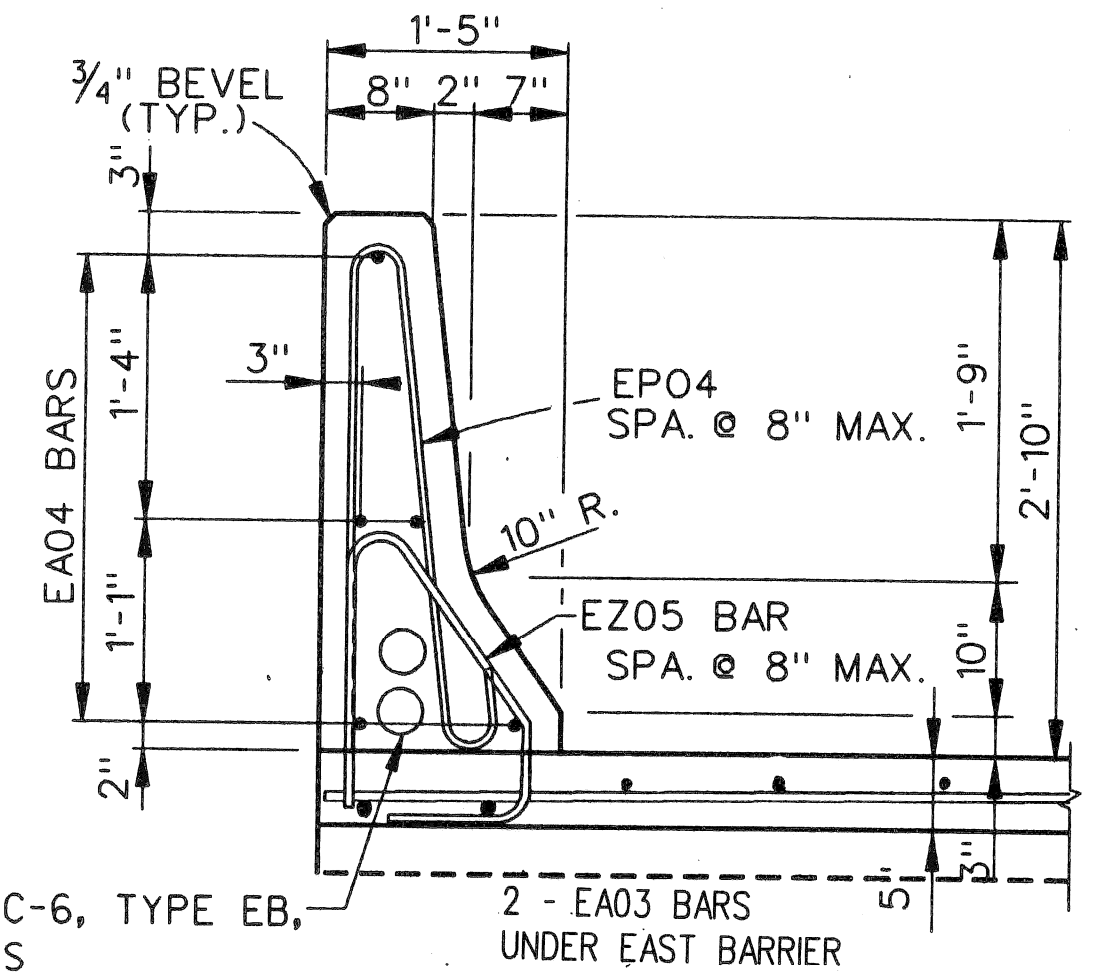
ITEM	UNIT	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	247.1
CONCRETE MEDIAN BARRIER (SP.)	LFT	123.6
SCARIFYING	SYD	890.0
HYDRODEMOLISHING - FIRST PASS	SYD	890.0
HYDRODEMOLISHING - SECOND PASS	SYD	20.5
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	6
CONSTRUCTING BRIDGE DECK SURFACE	SYD	855.5
FALSE DECKING	SYD	890.0
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	6



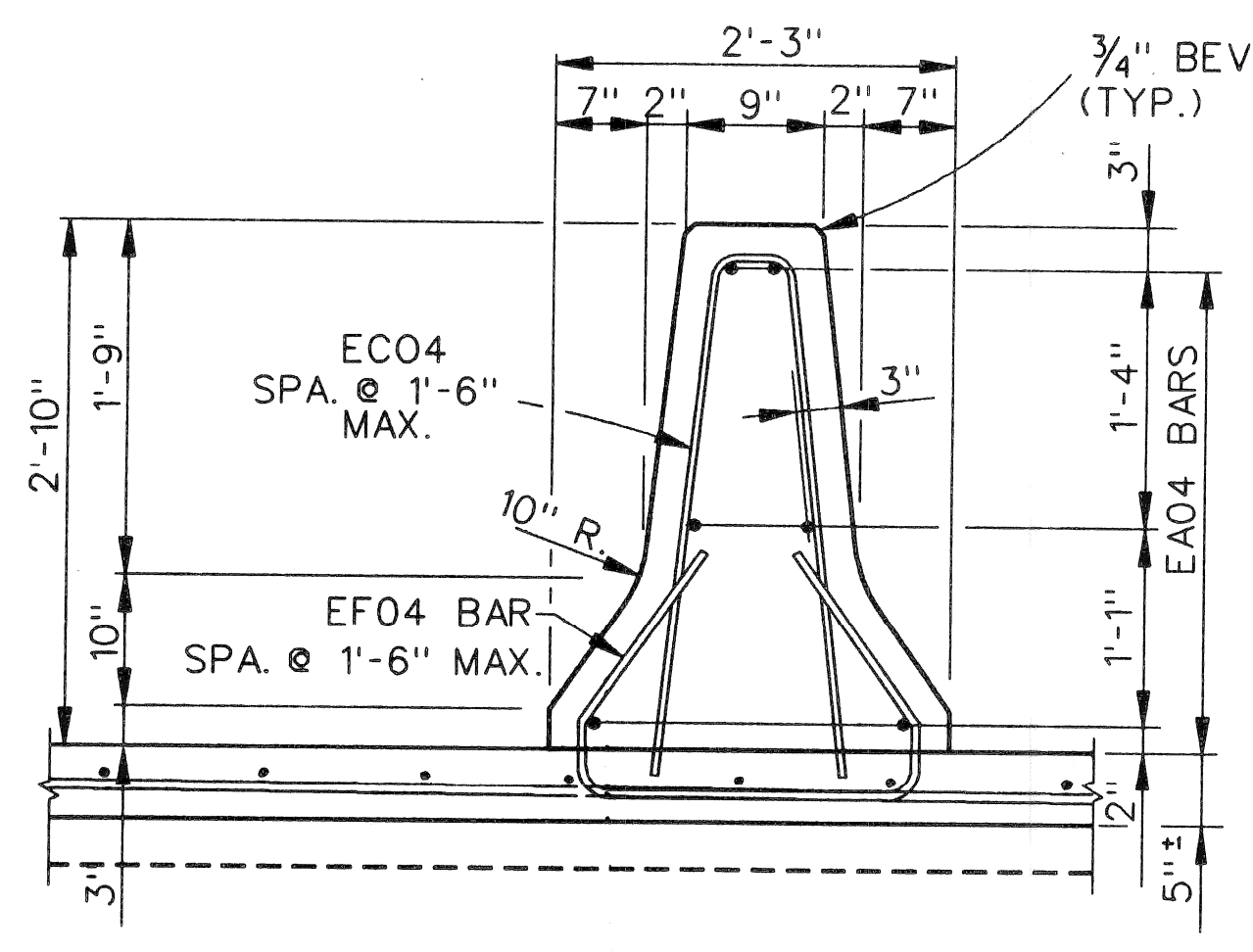
SECTION C-C

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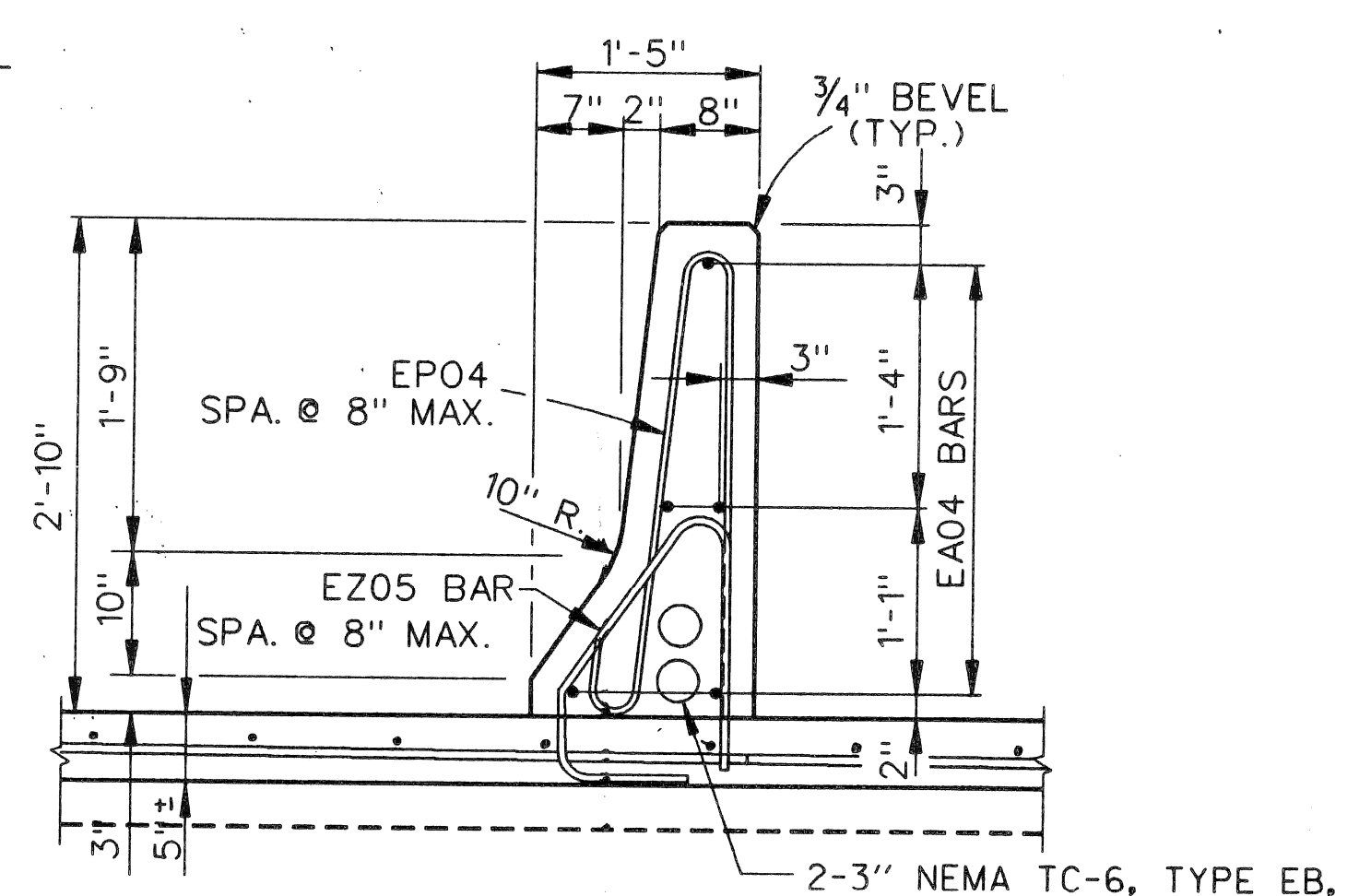
- TRANSVERSE REINFORCING STEEL SHALL BE PLACED RADIALLY IN CURVED PORTION OF SLAB.
- LONGITUDINAL STEEL SHALL BE PLACED CONCENTRIC TO BRIDGE CENTER LINE.
- WORK THIS SHEET WITH SHEETS 26, 27, 33 THRU 37 AND 39 THRU 51.
- FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS 52 & 53.
- SCREEDS AFFECTED BY LOADS IN OTHER SPANS ARE TO BE SET TO THE ELEVATIONS SHOWN BEFORE CASTING ANY CONCRETE. CONCRETE IN THE SUSPENDED SPANS IS TO BE CAST BEFORE THE CONCRETE IN THE ANCHOR SPANS.
- FORMING, FINISHING, AND CURING SUPERSTRUCTURE CONCRETE WILL BE MEASURED AS A LUMP SUM UNIT FOR THE 3'-9 1/2" OVERHANG ON SPANS 1, 2, 3, & 4 FOR ALL OF SPAN 16 AND THE 2 FOOT DECK JOINT REPLACEMENT AT PIERS 1 TO 14, AND THE 1'-6" DECK REPLACEMENT ON SPANS 5 TO 15.
- SCREED ELEVATIONS ARE BASED ON THE CONDITION THAT NO CONCRETE OVERLAY HAS BEEN CAST.
- OUTER SCREED RAILS FOR FINISHING OF CONCRETE SHALL BE LOCATED OVER FASCIA BEAM AND OVER THE SLAB ADJACENT TO CONSTRUCTION JOINT.



TYPICAL BARRIER SECTION



TYPICAL MEDIAN BARRIER SECTION



TYPICAL BARRIER SECTION AT SIDEWALK

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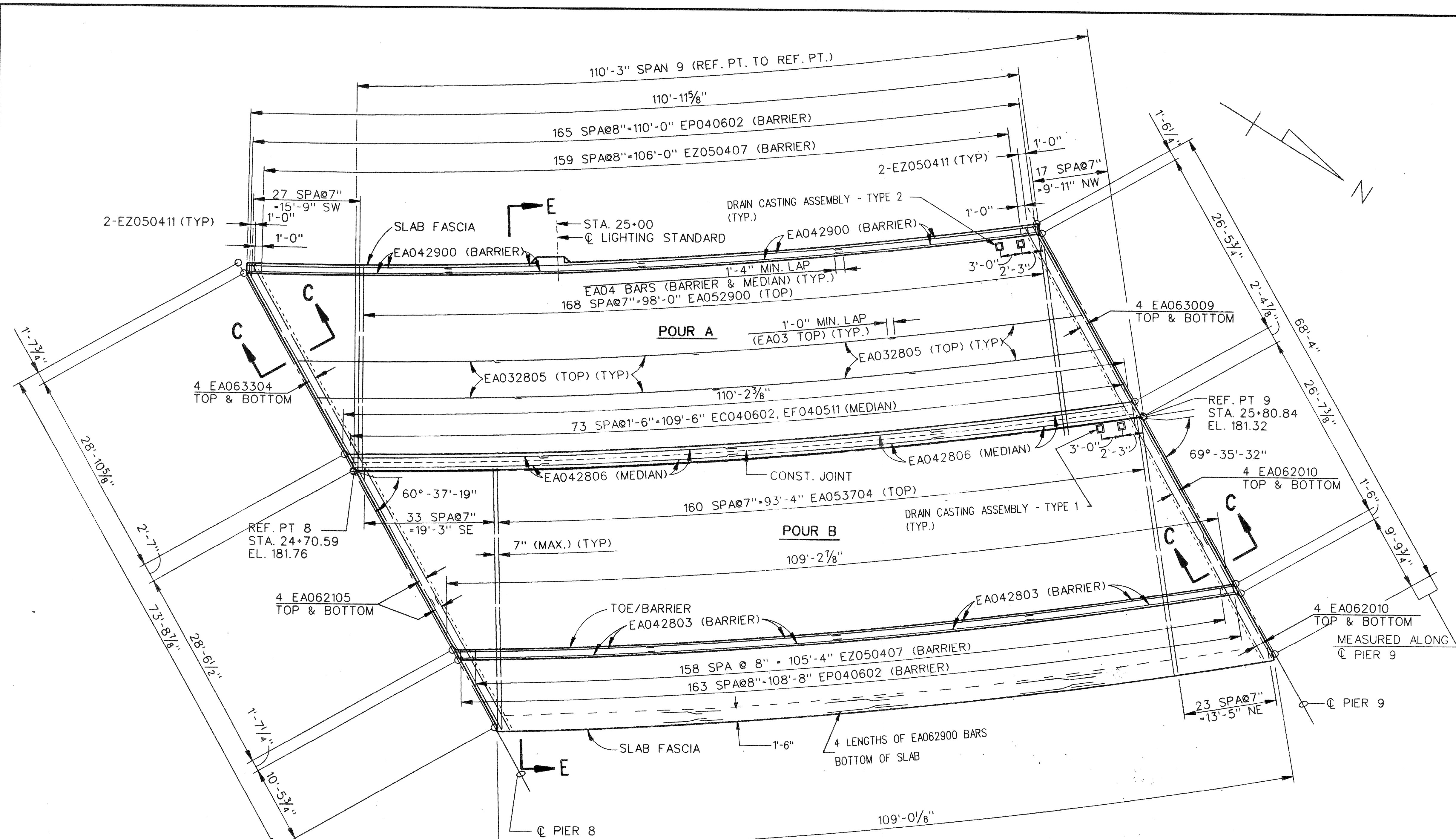
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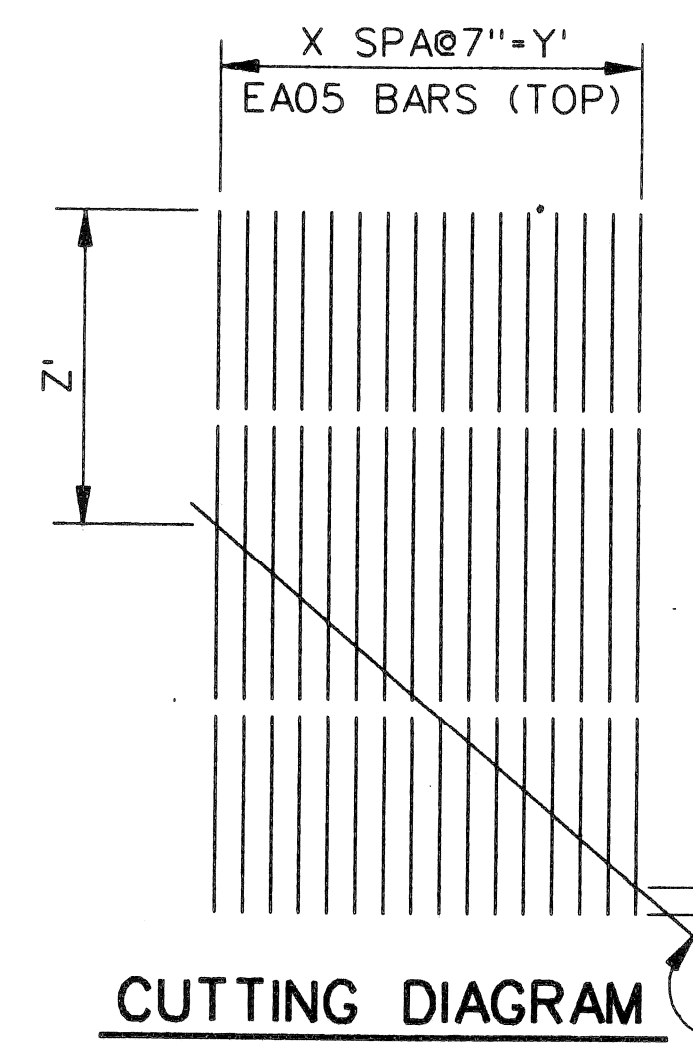
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SLAB PLAN



CUTTING DIAGRAM
NOTE: REINFORCEMENT IS TO BE SHOP CUT BEFORE EPOXY COATING IS APPLIED.

REBAR CUT LIST				
LOCATION	BAR NO.	X	Y'	Z'
SPAN 6 SECT. SW	EA053003	35	20'-5"	15'-3 3/8"
SPAN 6 SECT. NE	EA053807	43	25'-1"	19'-6"
SPAN 7 SECT. SW	EA053003	34	19'-10"	15'-3 3/8"
SPAN 7 SECT. NW	EA053000	18	10'-6"	15'-4 3/8"
SPAN 7 SECT. SE	EA053807	43	25'-1"	19'-6 3/8"
SPAN 7 SECT. NE	EA053803	23	13'-5"	19'-6 3/8"
SPAN 8 SECT. SW	EA053000	19	11'-1"	15'-4"
SPAN 8 SECT. NW	EA052908	12	7'-0"	15'-4 3/8"
SPAN 8 SECT. SE	EA053803	23	13'-5"	19'-6"
SPAN 8 SECT. NE	EA053800	16	9'-4"	19'-6 3/8"
SPAN 9 SECT. SW	EA052908	13	7'-7"	15'-3 3/8"
SPAN 9 SECT. NW	EA052901	8	4'-8"	15'-3 1/2"
SPAN 9 SECT. SE	EA053800	16	9'-4"	19'-6 3/8"
SPAN 9 SECT. NE	EA053705	11	6'-5"	19'-5 3/8"
SPAN 15 SECT. NW	EA052905	12	7'-0"	15'-2 3/4"
SPAN 15 SECT. NE	EA053709	16	9'-4"	19'-4 3/4"
SPAN 16 SECT. SE	EA063500	14	8'-2"	33'-6"
SPAN 16 SECT. SW	EA062706	10	5'-10"	26'-0"

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	220.2
CONCRETE MEDIAN BARRIER (SP.)	LFT	111.0
SCARIFYING	SYD	785.1
HYDRODEMOLISHING - FIRST PASS	SYD	785.1
HYDRODEMOLISHING - SECOND PASS	SYD	81.3
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	2
CONSTRUCTING BRIDGE DECK SURFACE	SYD	753.2
FALSE DECKING	SYD	786.0
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	2

SCREED ELEVATIONS					
	PIER 8	1/4	1/2	3/4	PIER 9
WEST BARRIER	180.83	181.71	180.59	180.48	180.37
MEDIAN WEST	181.77	181.66	181.55	181.44	181.33
CONST. JT.	181.77	181.66	181.55	181.44	181.33
MEDIAN EAST	181.77	181.66	181.55	181.44	181.33
EAST BARRIER	182.71	182.61	182.50	182.40	182.29

SUPERSTRUCTURE CONCRETE QUANTITIES	
POUR	AMT (CYDS)
A	48.9
B	66.0
TOTAL CONC.	114.9

NOTES:
 TRANSVERSE STEEL SHALL BE PLACED RADIALLY.
 LONGITUDINAL STEEL SHALL BE PLACED CONCENTRIC TO BRIDGE CENTER LINE.
 WORK THIS SHEET WITH SHEETS 26, 27, 33 THRU 38 AND 40 THRU 51.
 FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS 52 & 53.
 SCREDS AFFECTED BY LOADS IN OTHER SPANS ARE TO BE SET TO THE ELEVATIONS SHOWN BEFORE CASTING ANY CONCRETE. CONCRETE IN THE SUSPENDED SPANS IS TO BE CAST BEFORE THE CONCRETE IN THE ANCHOR SPANS.
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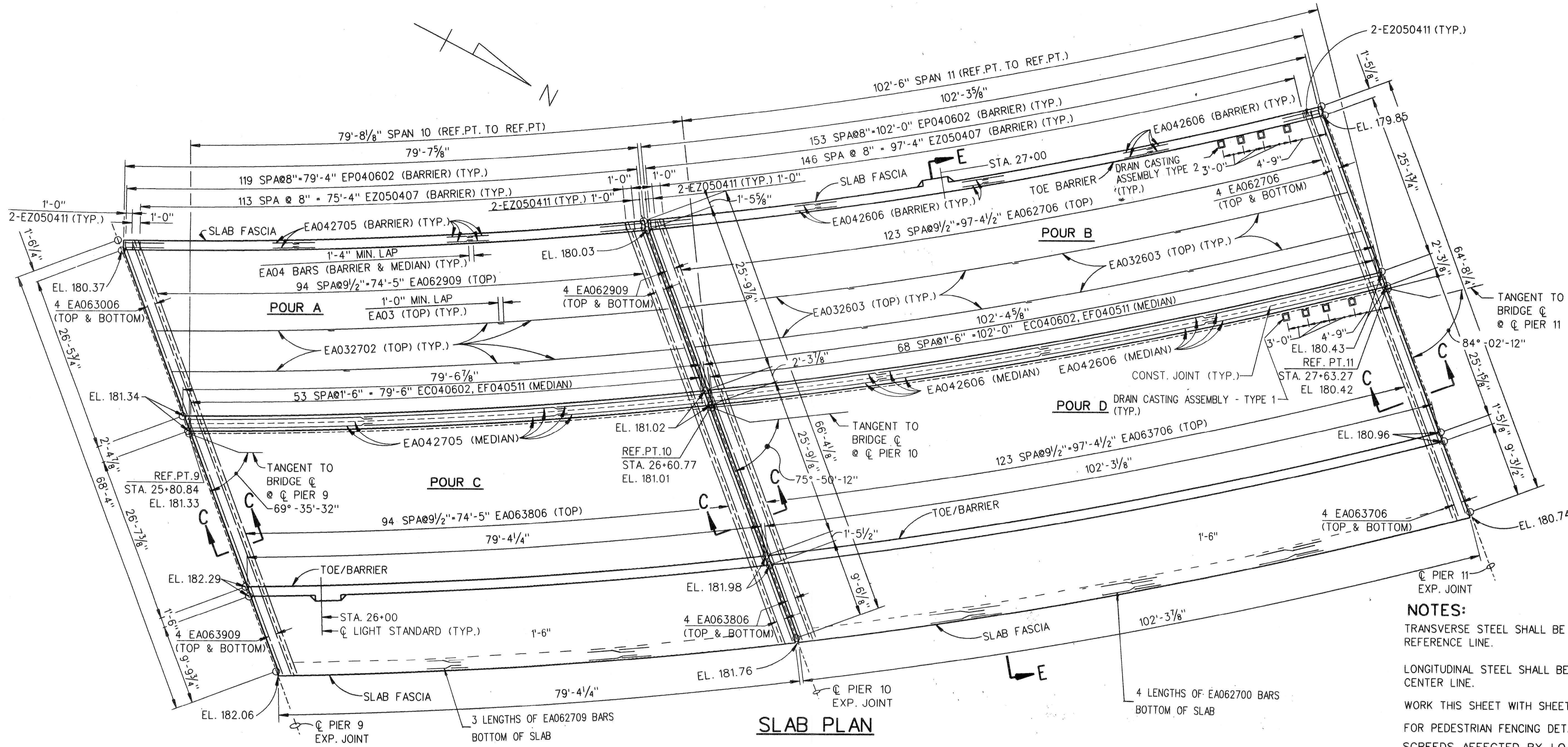
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B01 of 82-22-48

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NOTES:

TRANSVERSE STEEL SHALL BE PLACED PARALLEL TO THE REFERENCE LINE.

LONGITUDINAL STEEL SHALL BE PLACED CONCENTRIC TO BRIDGE CENTER LINE.

WORK THIS SHEET WITH SHEETS 26, 27, 33 THRU 40 AND 41 THRU 51.

FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS 52 & 53.

SCREEDS AFFECTED BY LOADS IN OTHER SPANS ARE TO BE SET TO THE ELEVATIONS SHOWN BEFORE CASTING ANY CONCRETE. CONCRETE IN THE SUSPENDED SPANS IS TO BE CAST BEFORE THE CONCRETE IN THE ANCHOR SPANS.

FORMING, FINISHING, AND CURING SUPERSTRUCTURE CONCRETE WILL BE MEASURED AS A LUMP SUM UNIT FOR THE 3'-9 1/2" OVERHANG ON SPANS 1, 2, 3, & 4 FOR ALL OF SPAN 16 AND THE 2 FOOT DECK JOINT REPLACEMENT AT PIERS 1 TO 14, AND THE 1'-6" DECK REPLACEMENT ON SPANS 5 TO 15.

SCREED ELEVATIONS ARE BASED ON THE CONDITION THAT NO CONCRETE OVERLAY HAS BEEN CAST.

OUTER SCREED RAILS FOR FINISHING OF CONCRETE SHALL BE LOCATED OVER FASCIA BEAM AND OVER THE SLAB ADJACENT TO CONSTRUCTION JOINT.

SUPERSTRUCTURE CONCRETE QUANTITIES

POUR	AMT (CYDS)
A	35.7
B	45.4
C	48.6
D	61.8
TOTAL CONC.:	191.5

MISCELLANEOUS QUANTITIES

ITEM	UNIT	AMOUNT	
		SPAN 10	SPAN 11
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	158.9	204.6
CONCRETE MEDIAN BARRIER (SP.)	LFT	79.6	102.4
SCARIFYING	SYD	570.9	741.3
HYDRODEMOLISHING - FIRST PASS	SYD	570.9	741.3
HYDRODEMOLISHING - SECOND PASS	SYD	32.8	42.6
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	0	1
CONSTRUCTING BRIDGE DECK SURFACE	SYD	540.6	711.8
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	0	1

SCREED ELEVATIONS

	PIER 9 1/4	1/2	3/4	PIER 10 1/4	1/2	3/4	PIER 11
WEST BARRIER	180.37	180.28	180.20	180.12	180.03	179.93	179.96
MEDIAN WEST	181.33	181.25	181.17	181.09	181.01	180.91	180.67
CONST. JT.	181.33	181.25	181.17	181.09	181.01	180.90	180.67
MEDIAN EAST	181.33	181.25	181.17	181.09	181.01	180.90	180.67
EAST BARRIER	182.29	182.21	182.14	182.06	181.98	181.84	181.35

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

REVISIONS

NO.	DESCRIPTION	DATE	BY

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

SHEET 40 OF 57
 B01 of 82-22-48