

SH. NO. 1
 JOB NO.
 CON. SEC. B01 OF 822248

TRAFFIC DATA
 POSTED SPEED 35 MPH
 DESIGN SPEED 45 MPH
 PRESENT ADT (1991) 5795
 FUTURE ADT (2010) 11705
 DESIGN LOADING HS20 &
 ALTERNATE MILITARY LOADING

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

PLANS OF PROPOSED BRIDGE REHABILITATION
 FEDERAL BRIDGE REPLACEMENT PROJECT NO. BHN 9482(050)
 MICHIGAN CRITICAL BRIDGE PROJECT NO. MSC 82022
 MOUNT ELLIOTT MOUND ROAD OVER GTWRR

WAYNE CO.
 CITY OF DETROIT
 PART 1 AND 2

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UTILITIES

DETROIT EDISON 1-800-477-4747
 MICHIGAN CONSOLIDATED GAS CO. 313-965-8080
 AMERITECH 313-221-6100
 DETROIT WATER & SEWER DEPARTMENT 313-267-7401
 CITY OF DETROIT, PUBLIC LIGHTING DEPARTMENT 313-267-7306
 BARDEN CABLE COMPANY 313-934-2600
 MISSDIG 1-800-482-7171

GENERAL NOTES

The design of this structure rehabilitation is based on current AASHTO Standard Specifications for Highway Bridges HS20 and alternate military loading. Live load plus impact deflection does not exceed 1/1000 of span length and 1/375 of cantilever arm. The load factor method of design was used for this structure.

Except where otherwise indicated on these plans, or in the proposal and supplemental specifications contained herein, all materials and workmanship shall be in accordance with the Michigan Department of Transportation Standard Specifications for Construction 1990 edition.

Public Lighting Department work to be done in accordance with P.L.D. Specifications and City of Detroit Division 15 Standards.

The stationing as shown on these plans is believed to be correct. It shall, however, be checked at the time of starting construction, and if the stationing shown on the plans is incorrect, it shall be reported to the Engineering office in Detroit, and the structure shall be staked out using the actual centerline as the control point.

All exposed concrete corners shown square on the plans shall be beveled with 1/2" triangular moldings except as otherwise noted.

The design of the structural members is based on material of the following grades and stresses:

Concrete:	Grade 35S	f'c =	3,000psi
Concrete:	Grade 45D	f'c =	4,000psi
Steel Reinforcement		f _y =	60,000psi
Structural Steel:	A36	f _y =	36,000psi
Structural Steel:	A442 modified	f _y =	50,000psi
Grade 50			

ENGINEERING
 PRINT UNIT
 AUG 0 3 1994
 DEPT. OF TRANSPORTATION

CONTRACT FOR REHABILITATION OF MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION

LOCAL AUTHORITY APPROVAL
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS

APPROVED BY William L. Talley 7/1/94
WILLIAM L. TALLEY, P.E., HEAD ENGINEER DATE

APPROVED BY Clyde C. Dowell JUL 13 1994
CLYDE C. DOWELL, DIRECTOR DATE

PREPARED UNDER SUPERVISION OF

ROBERT A. LEE, P.E., REGISTERED PROFESSIONAL ENGINEER REGISTRATION NO.
BAKER AND ASSOCIATES & WALTER TEAMER
AND ASSOCIATES, INC., A JOINT ASSOCIATION
ORGANIZATION
118 SOUTH CLINTON ST.
CHICAGO, ILLINOIS
ADDRESS

CONTROL SECTION	JOB NUMBER	FEDERAL NUMBERS	SHT. NO.
		PROJECT ITEM	1

MDOT STANDARD PLANS

Where the following items are called for on the plans they are to be constructed according to the standard plan given below opposite each item unless otherwise indicated.

- II-30D CONCRETE CURB AND CONCRETE CURB & GUTTER
- II-39K TRANSVERSE PAVEMENT JOINTS
- II-44G CONCRETE PAVEMENT REPAIR
- II-45G CONVENTIONAL PAVEMENT REINFORCEMENT
- III-67D GUARDRAIL ANCHORAGE - BRIDGE, DETAILS
- V-100B SODDING AND SEEDING
- VI-125H LIGHTED ARROWS AND BARRICADES
- XI-101B DRAIN CASTING ASSEMBLY DETAILS
- XI-103C MOLDING, BEVEL, LIGHT STD. ANCHOR BOLT ASSY., AND NAME PLATE DETAILS

THESE STANDARD PLANS WILL NOT BE PRINTED.

CITY OF DETROIT STANDARD PLANS

Where the following items are called for on the plans they are to be constructed according to the standard plan given below opposite each item unless otherwise indicated.

- 101-PLD MISC. ENCASED CONDUIT SECTION DETAILS
- 101A-PLD DETAIL FOR JOINING CONDUIT ENCASEMENTS
- 114-PLD MULT. ST. LTG. CABLE CONNECTIONS, CLAMP-ON ARM & MISC. DETAILS
- 115-PLD CODE 009-00 ST. LTG. STD. DETAILS

THESE STANDARD PLANS PROVIDED IN SET.

JOB NUMBER B01 OF 82-22-48 / MICH. PROJ. NO. MCS 82022 / FED. PROJ. NO. BHN 9482 (050) / FED. ITEM NO. RR 0125

SUMMARY OF QUANTITIES

PART	WORK-ITEM CODE	DESCRIPTION	QUANTITY	UNITS	
01	2070002	REMOVING PAVEMENT	377	SYD	
01	2070003	REMOVING CURB	69	LFT	
01	2077001	REMOVING PORTIONS OF RETAINING WALLS	1,076	LFT	
01	2077003	REMOVING OF STAIRS	1	LSUM	
01	2077005	REMOVING OF MEDIAN BARRIER ON APPROACHES	606	LFT	
01	2070009	REMOVING BEAM GUARDRAIL	256	LFT	
01	4000100	BITUMINOUS MIXTURE NO. 1500L, 20AAA	708	TON	
01	4000010	CHIPPING CONCRETE PAVEMENT FOR JOINTS	377	SYD	
01	4000020	REPAIRING PAVEMENT JOINTS AND CRACKS DETAIL 7	1,092	LFT	
01	4000101	BITUMINOUS MIXTURE NO. 1500T, 20AAA	708	TON	
01	4500015	CONCRETE PAVEMENT - REINFORCED 9"	520	SYD	
01	4500275	EXPANSION JOINT E2	105	LFT	
01	4500276	EXPANSION JOINT E3	105	LFT	
01	4500296	EXPANSION-ANCHORED LANE-TIES	272	EACH	
01	4520011	CONCRETE PAVEMENT REPAIR-REINFORCED 9"	454	SYD	
01	4520035	CONSTRUCTION JOINT Cr	105	LFT	
01	5030031	STEEL REINFORCEMENT, EPOXY COATED	29,644	LBS	
01	5030131	LIGHT STANDARD ANCHOR ASSEMBLY - FURNISHED AND PLACED	8	EACH	
01	5030171	CONDUIT, 3"	2,150	LFT	
01	5087002	BRIDGE BARRIER RAILING, TYPE 5(MOD) FOR RAILING REPLACEMENT	1,075	LFT	
01	5087004	CONCRETE MEDIAN BARRIER (SP)	550	LFT	
01	5090030	EPOXY ANCHORING OF VERTICAL BAR, 1/2"	1,467	EACH	
01	5090031	EPOXY ANCHORING OF VERTICAL BAR, 5/8"	795	EACH	
x	01	5140013	SEWER CLEAN OUT	2,150	LFT
x	01	5140014	CLEANING DRAINAGE STRUCTURE	15	EACH
01	6090004	CONCRETE CURB, DETAIL E4	69	LFT	
01	6130002	GALVANIZED BEAM GUARDRAIL, TYPE B	24	LFT	
01	6130048	GUARDRAIL ANCHORAGE - BRIDGE, DETAIL T-3	2	EACH	
01	6200001	MOVING FENCE	1,200	LFT	
01	6210004	TEMPORARY FENCE	1,200	LFT	
01	6210110	PEDESTRIAN FENCING-STRUCTURES	5,956	SFT	
x	01	6220001	FIELD OFFICE (SPECIAL)	2	MOS
01	6230001	MOBILIZATION	1	LSUM	
01	6290350	OVERLAY COLD PLASTIC PAVEMENT MARKING, 4", WHITE	2,185	LFT	
01	6290351	OVERLAY COLD PLASTIC PAVEMENT MARKING, 4", YELLOW	1,450	LFT	
01	6290361	OVERLAY COLD PLASTIC PAVEMENT MARKING, 24", STOP BAR	33	LFT	
01	6290366	OVERLAY COLD PLASTIC PAVEMENT MARKING, RIGHT TURN ONLY	2	EACH	
01	6290376	OVERLAY COLD PLASTIC PAVEMENT MARKING, RIGHT TURN ARROW SYMBOL	2	EACH	
01	6310026	BARRICADE, TYPE II, LIGHTED - FURNISHED	7	EACH	
01	6310027	BARRICADE, TYPE II, LIGHTED - OPERATED	7	EACH	
01	6310036	BARRICADE, TYPE III, LIGHTED - FURNISHED	8	EACH	
01	6310037	BARRICADE, TYPE III, LIGHTED - OPERATED	8	EACH	
01	6310054	MINOR TRAFFIC DEVICES	1	LSUM	
01	6310065	SIGN, TYPE B TEMPORARY - FURNISHED	189	SFT	
01	6310066	SIGN, TYPE B TEMPORARY - OPERATED	189	SFT	

* NON-PARTICIPATING

SUMMARY OF QUANTITIES

PART	WORK-ITEM CODE	DESCRIPTION	QUANTITY	UNITS
01	6317001	GREAT ATTENUATOR (4 BAY UNIT)	2	EACH
01	6530006	ROADSIDE SEEDING	70	LBS
01	6530010	CHEMICAL FERTILIZER NUTRIENT	168	LBS
01	6530014	TOPSOIL SURFACE, 3"	3,400	SYD
01	6530030	MULCH	1.4	TON
01	6530031	ANCHORING MULCH	.7	ACRE
01	6900090	JUNCTION BOX IN BARRIER WALL	11	EACH
01	6900096	ADJUST MANHOLE	3	EACH
01	6900612	250W HIGH PRESSURE SODIUM LUMINAIRE	8	EACH
01	6907002	REMOVAL OF EXISTING CODE 009 STREET LIGHTING STANDARD	8	EACH
01	6907004	INSTALLATION OF CODE 009 STREET LIGHTING STANDARD	8	EACH
01	6917002	2KV., 3-1/C #2 (RED,WHITE,BLACK) CABLE	1,550	LFT
01	6917004	600V., 1-1/C #2 GREEN GROUND CABLE	1,750	LFT
01	6920002	ON THE JOB TRAINING	2,250	HRS
02	2060002	REMOVAL OF PORTIONS OF STRUCTURES	1	LSUM
02	2090003	UNCLASSIFIED FOUNDATION EXCAVATION	531	CYD
02	2090005	STRUCTURE BACKFILL (CIP)	1,444	CYD
02	5010001	PERMANENT SHEET PILING	1,740	SFT
02	5030010	CONCRETE GRADE 35S-SUBFOOTING	38	CYD
02	5030018	EPOXY MORTAR OR CONCRETE FOR PATCHING	100	CFT
02	5030023	SUBSTRUCTURE CONCRETE	394	CYD
02	5030024	SUPERSTRUCTURE CONCRETE	1,723	CYD
02	5030027	FORMING, FINISHING, AND CURING SUPERSTRUCTURE CONCRETE	1	LSUM
02	5030030	STEEL REINFORCEMENT	41,531	LBS
02	5030031	STEEL REINFORCEMENT, EPOXY COATED	383,015	LBS
02	5030052	PENETRATING WATER REPELLENT TREATMENT	419	SYD
02	5030099	EXPANSION JOINT DEVICE	1,033	LFT
02	5030131	LIGHT STANDARD ANCHOR ASSEMBLY - FURNISHED AND PLACED	15	EACH
02	5030150	DRAIN CASTING ASSEMBLY - TYPE 1	29	EACH
02	5030151	DRAIN CASTING ASSEMBLY - TYPE 2	30	EACH
02	5030171	CONDUIT, 3"	6,580	LFT
02	5030181	EXPANSION ANCHORED BOLTS, 3/4"	98	EACH
02	5030200	BRIDGE END HEADER	108	LFT
02	5030250	STRUCTURE NAME PLATE	2	EACH
02	5030310	CONSTRUCTING BRIDGE DECK SURFACE	9,925	SYD
02	5040002	STRUCTURAL STEEL FABRICATION AND ERECTION (PLATES)	3,080	LBS
02	5040045	CLEANING EXISTING STEEL STRUCTURE (TYPE 4)	1	LSUM
02	5040046	COATING EXISTING STEEL STRUCTURE (TYPE 4)	1	LSUM
02	5040085	BUSHING	22	EACH
02	5047002	DRY FIRE PROTECTION LINE	1	LSUM
02	5060001	JOINT WATERPROOFING	108	SFT
02	5080024	BRIDGE BARRIER RAILING, TYPE 5	162	LFT
02	5087002	BRIDGE BARRIER RAILING, TYPE 5(MOD) FOR RAILING REPLACEMENT	3,128	LFT

SUMMARY OF QUANTITIES

PART	WORK-ITEM CODE	DESCRIPTION	QUANTITY	UNITS
02	5087004	CONCRETE MEDIAN BARRIER (SP)	1,575	LFT
02	5090001	SCARIFYING	10,446	SYD
02	5090007	HAND CHIPPING - OTHER THAN DECK	100	CFT
02	5090017	FORMING FOR PATCHES	300	SFT
02	5090030	EPOXY ANCHORING OF VERTICAL BAR, 1/2"	23	EACH
02	5090031	EPOXY ANCHORING OF VERTICAL BAR, 5/8"	74	EACH
02	5090075	FALSE DECKING	5,130	SYD
02	5090076	HYDRODEMOLISHING-FIRST PASS	10,466	SYD
02	5090077	HYDRODEMOLISHING-SECOND PASS	485	SYD
02	5090099	REPAIRING STRUCTURAL CRACKS	150	LFT
02	5100001	STRUCTURAL STEEL, FURNISHING AND FABRICATING (PIN & HANGER)	2,300	LBS
02	5100003	FIELD MEASUREMENT OF HANGER ASSEMBLY	11	EACH
02	5100005	HANGER ASSEMBLY REMOVAL AND ERECTION	11	EACH
02	5100016	TEMPORARY SUPPORT, SUSPENSION TYPE	11	EACH
02	5107002	ROCKER ALIGNMENT	10	EACH
02	6020122	FOUNDATION UNDERDRAIN, 8"	232	LFT
02	6210110	PEDESTRIAN FENCING-STRUCTURES	16,155	SFT
02	6290350	OVERLAY COLD PLASTIC PAVEMENT MARKING, 4", WHITE	4,125	LFT
02	6290351	OVERLAY COLD PLASTIC PAVEMENT MARKING, 4", YELLOW	3,150	LFT
02	6900090	JUNCTION BOX IN BARRIER WALL	15	EACH
02	6900612	250W HIGH PRESSURE SODIUM LUMINAIRE	15	EACH
02	6907002	REMOVAL OF EXISTING CODE 009 STREET LIGHTING STANDARD	15	EACH
02	6907004	INSTALLATION OF CODE 009 STREET LIGHTING STANDARD	15	EACH
02	6917002	2KV., 3-1/C #2 (RED,WHITE,BLACK) CABLE	3,150	LFT
02	6917004	600V., 1-1/C #2 GREEN GROUND CABLE	3,150	LFT

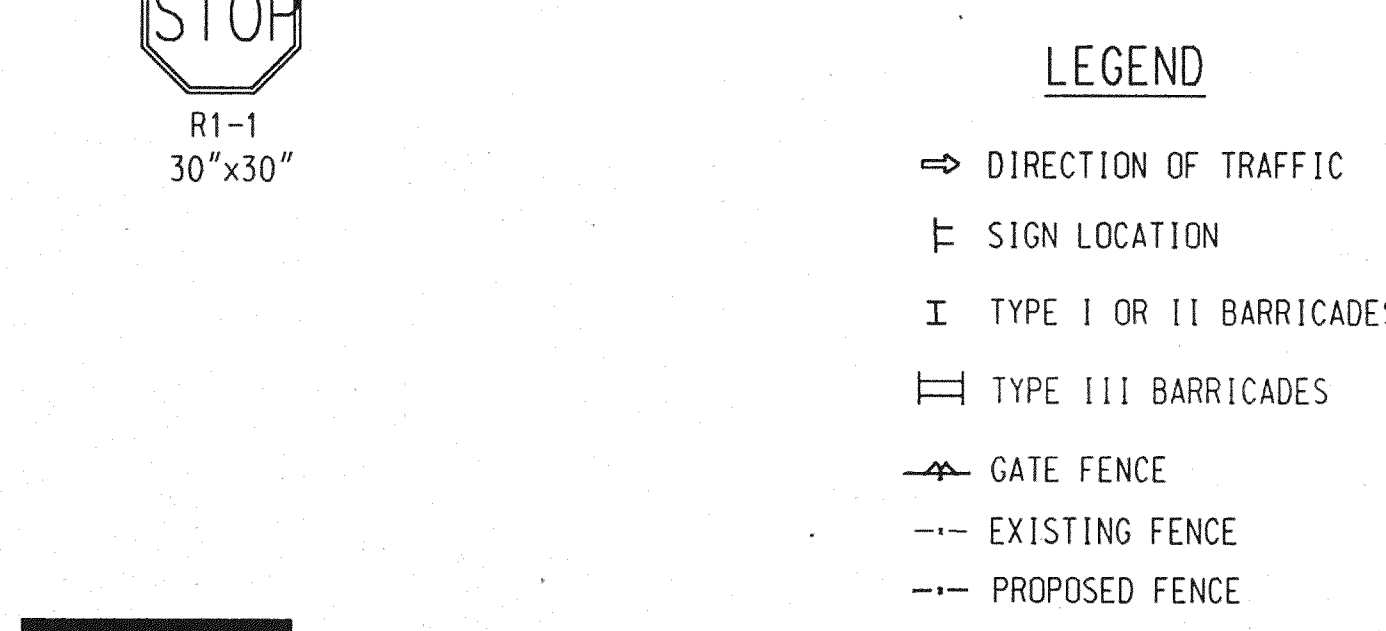
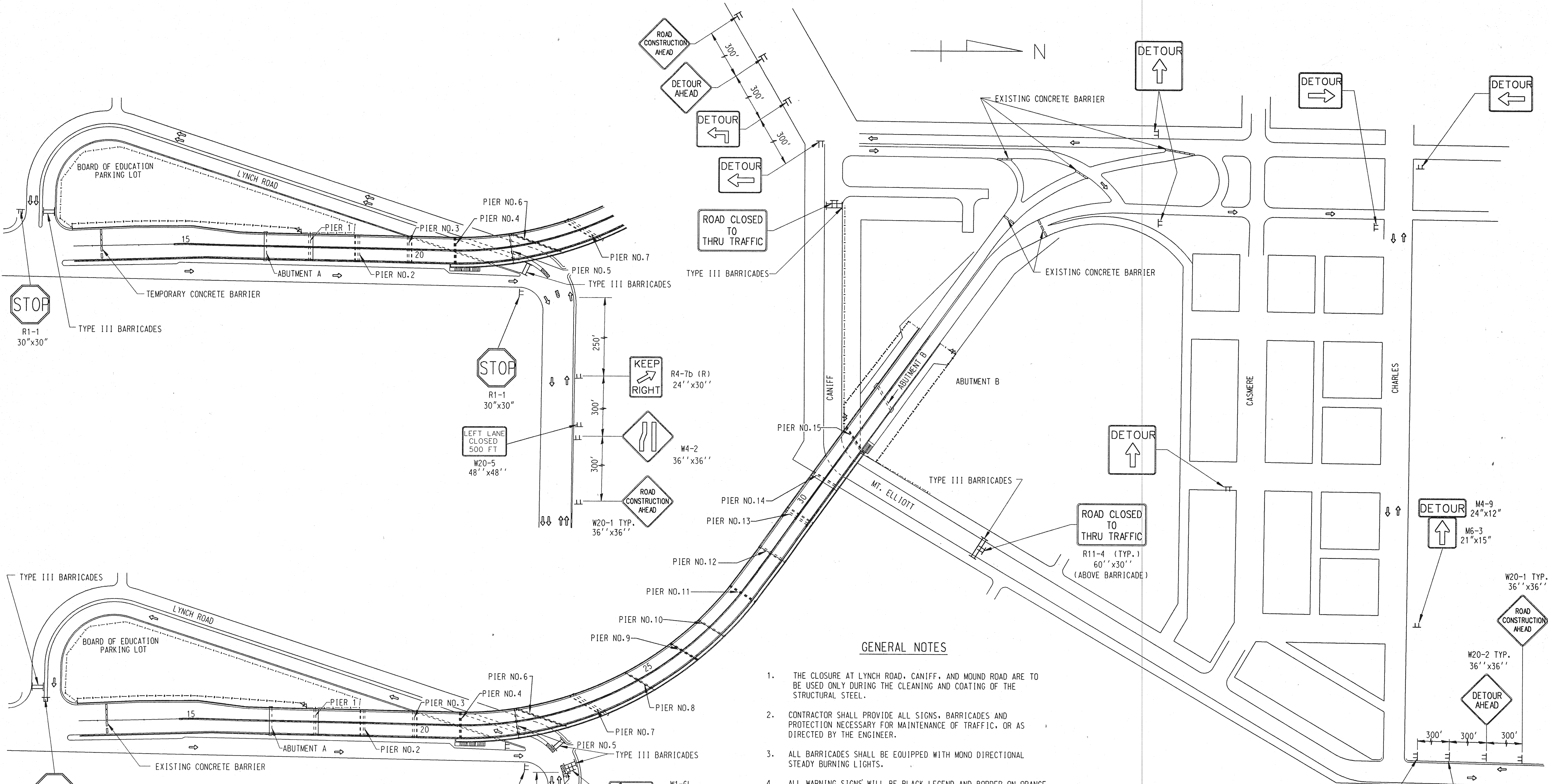
Baker
WTA
BAKER AND ASSOCIATES
WALTER TEAMER AND ASSOCIATES, INC.
A JOINT ASSOCIATION
18431 JAMES COUZENS DETROIT, MI 48235

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
SUMMARY OF QUANTITIES

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	RAL	DATE	1/94
DRAWN BY	NAME	RBC	DATE	6/94
CHECKED BY	NAME	RAD	DATE	6/94
SHEET		2	OF	57

B01 of 82-22-48



LEGEND

- ⇨ DIRECTION OF TRAFFIC
- ⊢ SIGN LOCATION
- ⊢ TYPE I OR II BARRICADES
- ⊢ TYPE III BARRICADES
- GATE FENCE
- - - EXISTING FENCE
- - - PROPOSED FENCE

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 18431 JAMES COUZENS DETROIT, MI 48235

GENERAL NOTES

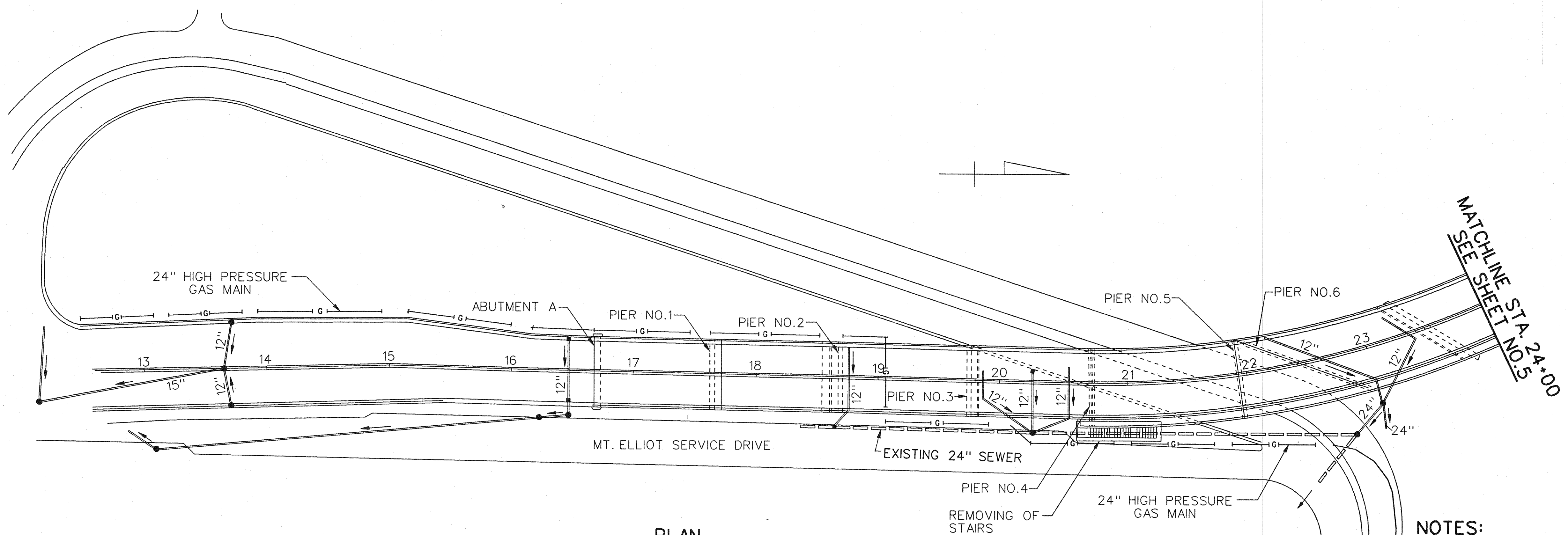
1. THE CLOSURE AT LYNCH ROAD, CANIFF, AND MOUND ROAD ARE TO BE USED ONLY DURING THE CLEANING AND COATING OF THE STRUCTURAL STEEL.
2. CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES AND PROTECTION NECESSARY FOR MAINTENANCE OF TRAFFIC, OR AS DIRECTED BY THE ENGINEER.
3. ALL BARRICADES SHALL BE EQUIPPED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

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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

SQUAD BOSS	NAME	HME	9/93
DRAWN BY	NAME	DLF	DATE 11/93
CHECKED BY	NAME	RAL	DATE 1/94
SHEET	3 OF 57		

B01 of 82-22-48



PLAN

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
SEWER CLEANOUT	LFT	2150
CLEANING DRAINAGE STRUCTURE	EACH	15
REMOVING OF STAIRS	LSUM	1

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.

NOTES:

1. THE 24" HIGH PRESSURE GAS MAIN OWNED BY MICHIGAN CONSOLIDATED GAS COMPANY (MCGC) AS SHOWN ON THIS SHEET INDICATE APPROXIMATE LOCATIONS ONLY AS RECEIVED FROM (MCGC) AND NO GUARANTEE IS MADE EITHER AS TO COMPLETENESS OR ACCURACY. CONTACT MISS DIG 3 WORKING DAYS BEFORE DIGGING IN THIS AREA.
2. "REMOVING OF STAIRS" INCLUDES REMOVING OF THE TWO SETS OF STAIRS FROM THE BRIDGE SITE, THE REMOVAL OF THE EIGHT 1.5 SQ. FOOTINGS AND THE 7' X 2'-6" BASE OF STAIR FOOTING, BACKFILLING WITH SUITABLE MATERIAL, AND PLACING CONCRETE SIDEWALK (MATCH EXISTING SIDEWALK THICKNESS) AT THE SOUTH STAIRS. AND REMOVAL OF THE FOUR 1.5 SQ. FOOTINGS AND ONE 6' X 2'-6" BASE OF STAIR FOOTING, AND BACKFILLING WITH SUITABLE MATERIAL AT THE NORTH STAIRS.

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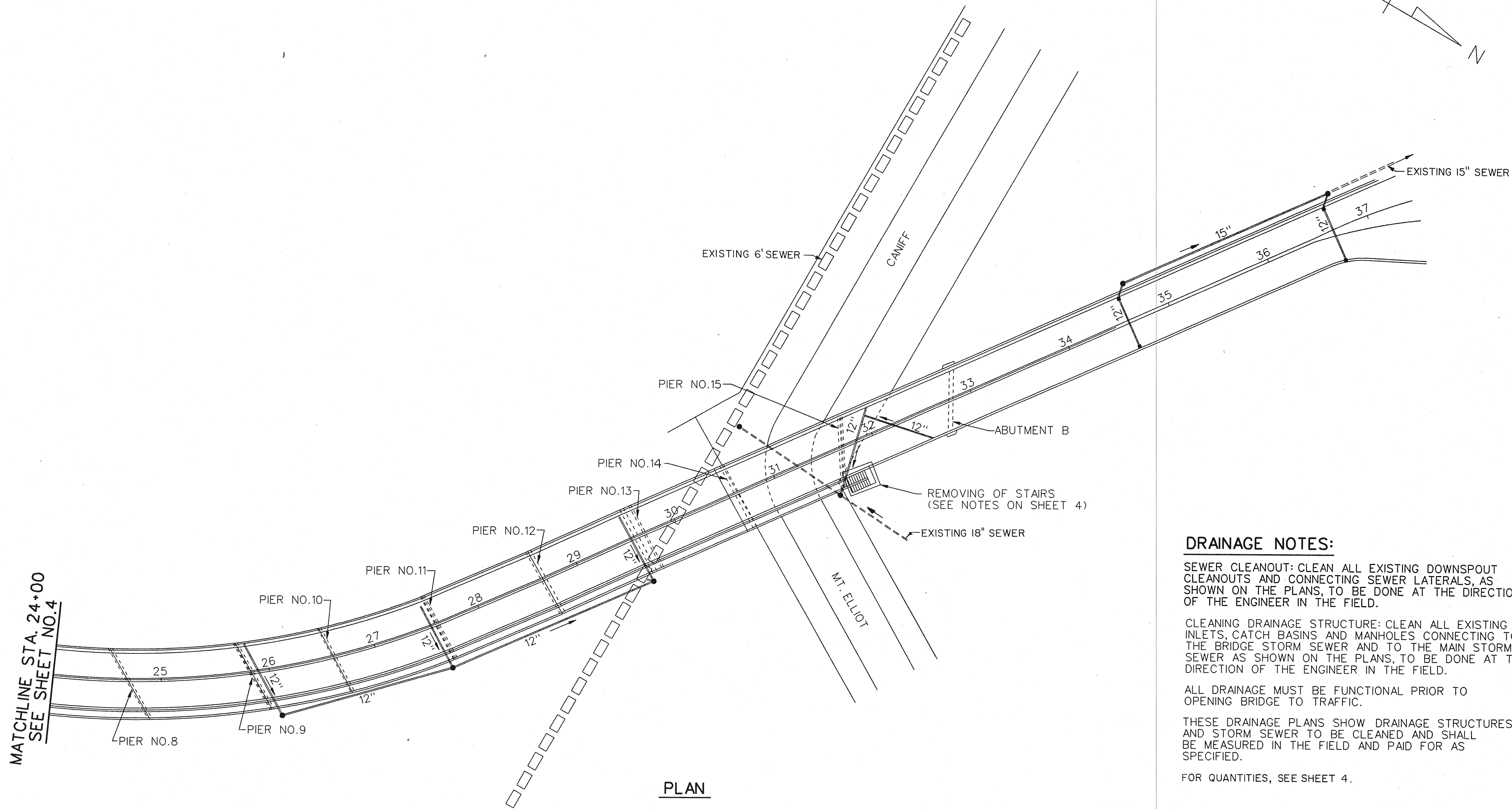
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WALTER TEAMER AND ASSOCIATES, INC.
A JOINT ASSOCIATION

18431 JAMES COUZENS DETROIT, MI 48235

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

NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	JME	
DRAWN BY	NAME	JAD	DATE 11/93
CHECKED BY	NAME	RAL	DATE 1/94
SHEET	4 OF 57		
B01 of 82-22-48			



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.

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

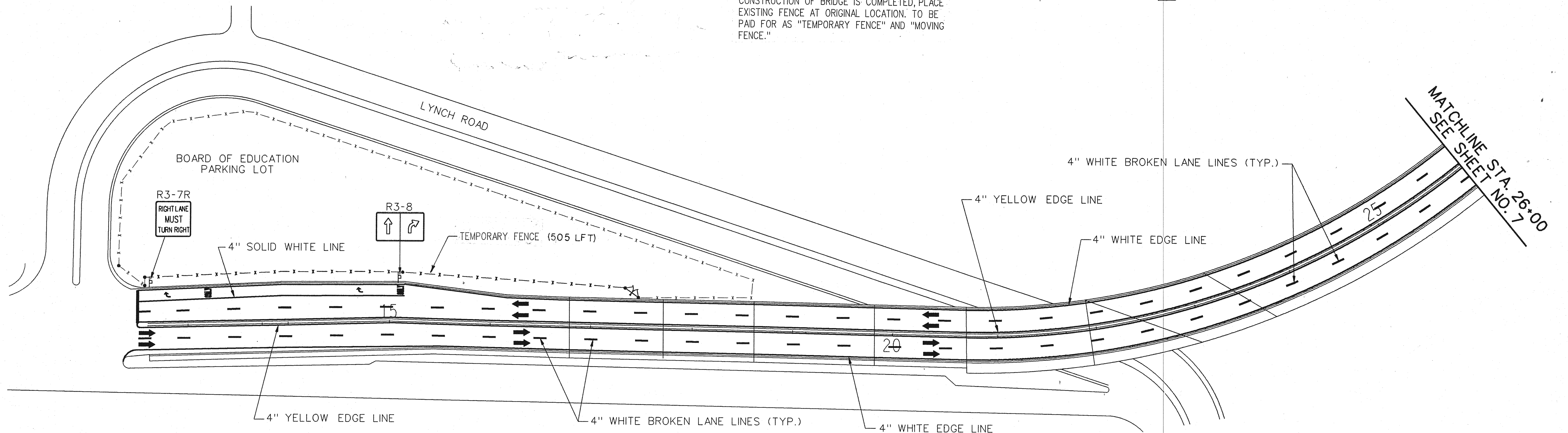
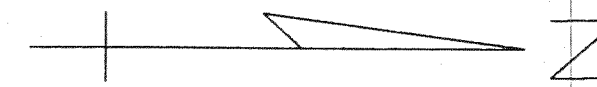
THE CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
DRAINAGE PLAN

REVISIONS			
NO.	DESCRIPTION	DATE	BY

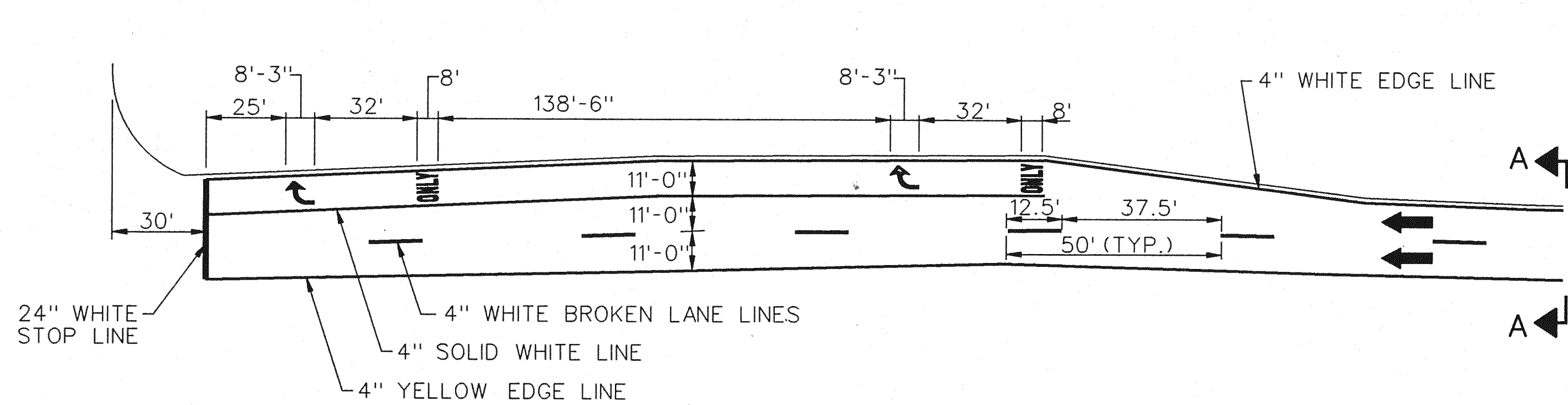
SQUAD BOSS	NAME	TIME	
DRAWN BY	NAME	JAD	DATE 11/93
CHECKED BY	NAME	RAL	DATE 1/94
SHEET	5 OF 57		

B01 of 82-22-48

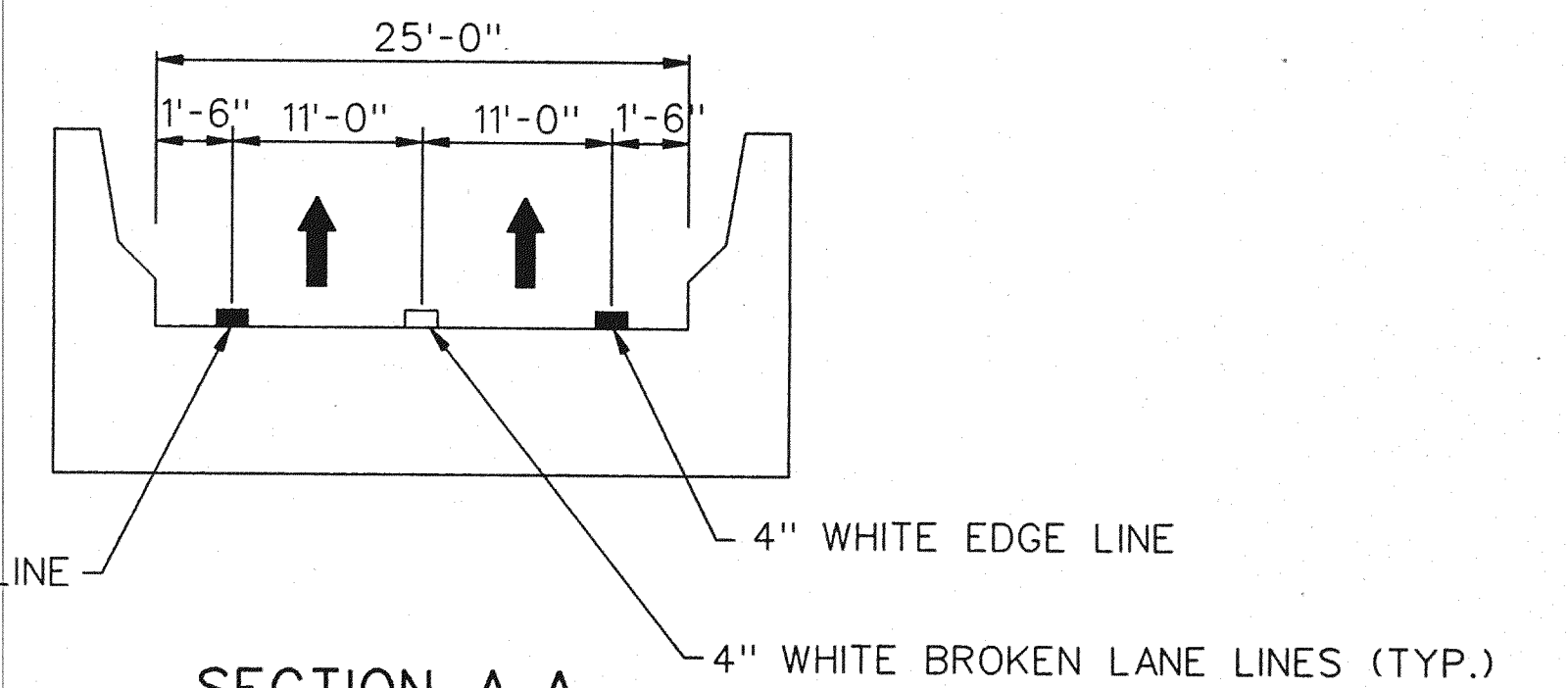
NOTE:
 PLACE TEMPORARY FENCE AT R.O.W. LINE AND
 MOVE EXISTING FENCE TO TEMPORARY STORAGE
 FOR WORK AT SOUTH END OF BRIDGE. WHEN
 CONSTRUCTION OF BRIDGE IS COMPLETED, PLACE
 EXISTING FENCE AT ORIGINAL LOCATION. TO BE
 PAID FOR AS "TEMPORARY FENCE" AND "MOVING
 FENCE."



PLAN



TYPICAL MARKING DETAIL



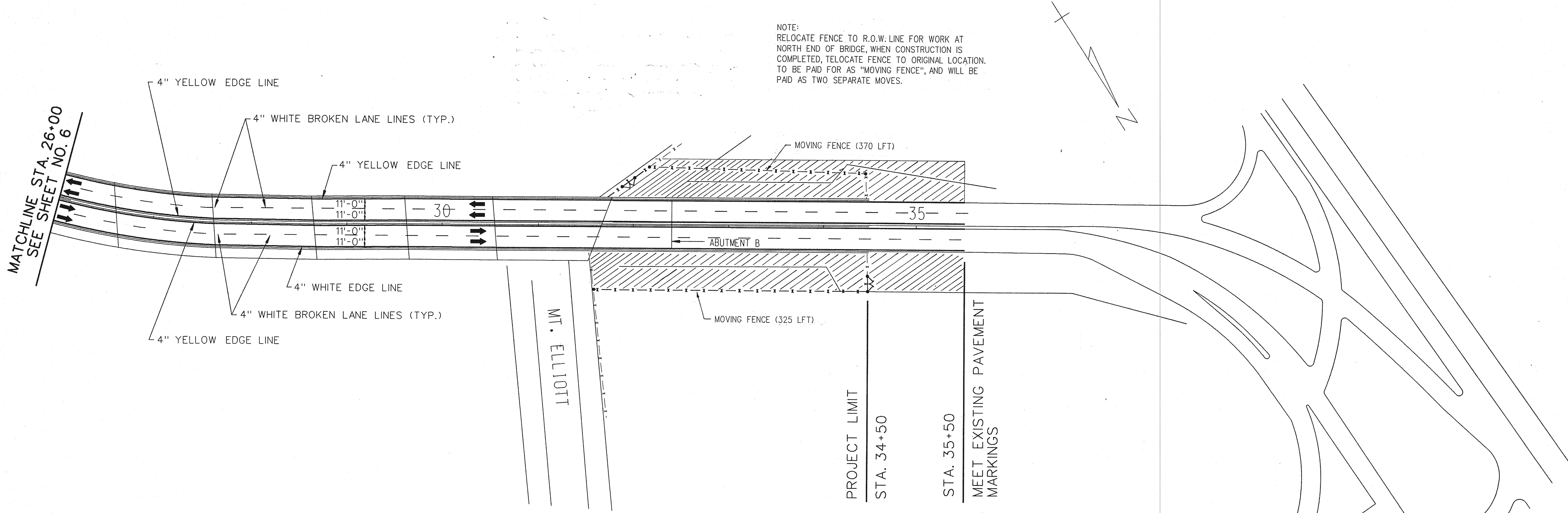
MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
OVERLAY COLD PLASTIC PAVEMENT MARKING, 4" WHITE	LFT	3660
OVERLAY COLD PLASTIC PAVEMENT MARKING, 4" YELLOW	LFT	2,700
OVERLAY COLD PLASTIC PAVEMENT MARKING, 24" STOP BAR	LFT	33
OVERLAY COLD PLASTIC PAVEMENT MARKING, RIGHT TURN ONLY	EACH	2
OVERLAY COLD PLASTIC PAVEMENT MARKING, RIGHT TURN ARROW SYMBOL	EACH	2
MOVING FENCE	LFT	505
TEMPORARY FENCE	LFT	505

REVISIONS			
NO.	DESCRIPTION	DATE	BY

THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 STRIPING AND SIGNING

SQUAD BOSS	NAME	HME	DATE	12/93
DRAWN BY	NAME	JAD	DATE	1/94
CHECKED BY	NAME	RAW	DATE	1/94
SHEET 6		OF 57		
B01 of 82-22-48				

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NOTE:
 RELOCATE FENCE TO R.O.W. LINE FOR WORK AT
 NORTH END OF BRIDGE, WHEN CONSTRUCTION IS
 COMPLETED, RELOCATE FENCE TO ORIGINAL LOCATION.
 TO BE PAID FOR AS "MOVING FENCE", AND WILL BE
 PAID AS TWO SEPARATE MOVES.

PLAN

/// DENOTES AREA OF ROADSIDE
 SEEDING AND REQUIRED ITEM FOR
 RESTORING THE AREA.

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
OVERLAY COLD PLASTIC PAVEMENT MARKING, 4" WHITE	LFT	2,650
OVERLAY COLD PLASTIC PAVEMENT MARKING, 4" YELLOW	LFT	1,900
MOVING FENCE	LFT	695
TEMPORARY FENCE	LFT	695
ROADSIDE SEEDING	LBS	70
CHEMICAL FERTILIZER NUTRIENTS	LBS	168
MULCH	TCN	1.4
ANCHORING MULCH	ACRE	.7
TOP SOIL SURFACE, 3"	SYD	3,400

THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 STRIPING AND SIGNING

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REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE 12/93
CHECKED BY	NAME	DATE 1/94
SHEET	7	OF 57
B01 of 82-22-48		

BENCHMARKS

PBM 51-253 ELEV. 152.13
MONUMENTS C MOUND AND
N. P. CANIFF.

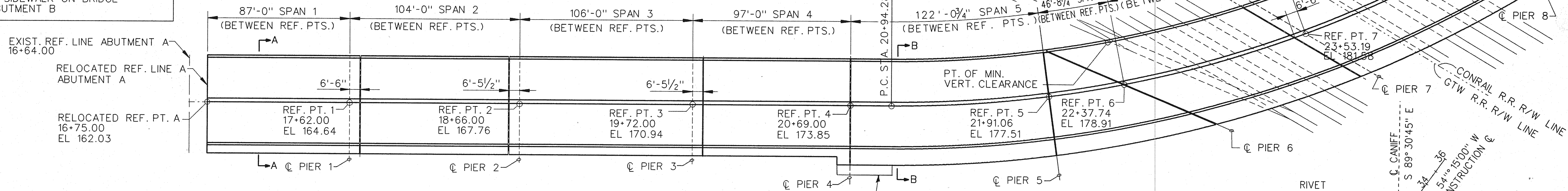
PBM *
MONUMENT LOCATED ON ELEV.
EAST SIDEWALK ON BRIDGE
AT ABUTMENT A.

PBM *
MONUMENT LOCATED ON ELEV.
WEST SIDEWALK ON BRIDGE
AT ABUTMENT B

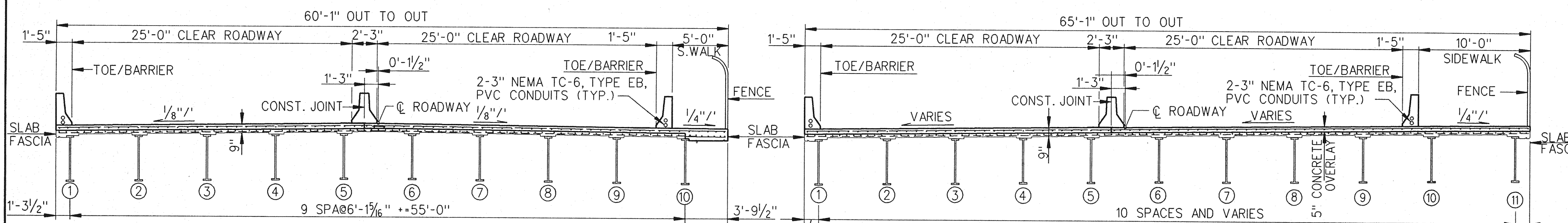
*NOT AVAILABLE, TO BE REMOVED
DURING CONSTRUCTION

CURVE DATA C3

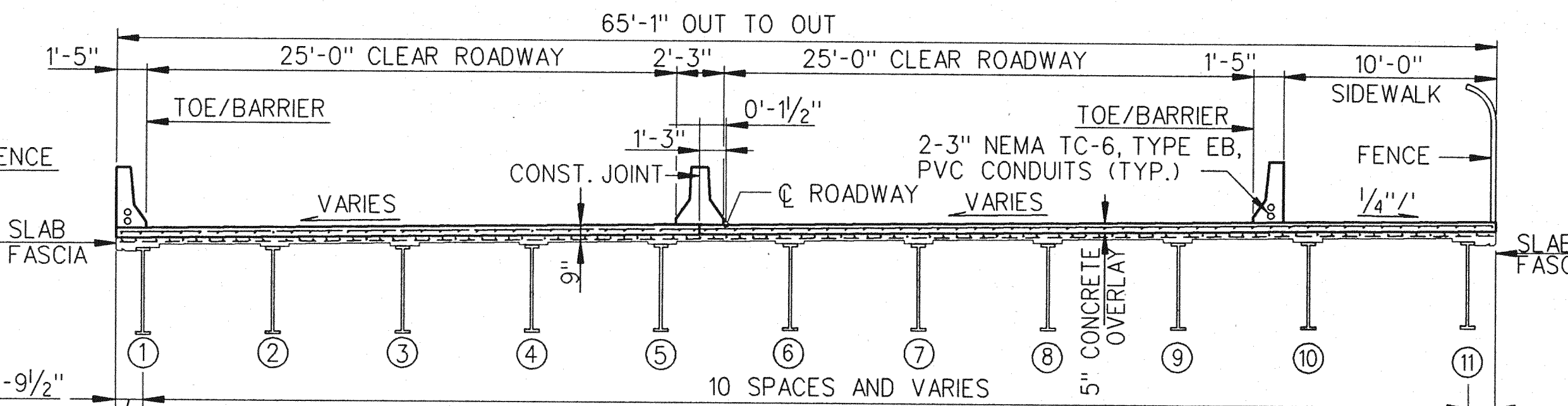
PI STA 24+61.17
Δ 54°15'00"
D 8°00'
R 716.20'
L 678.12'
T 366.89'
E 88.51'



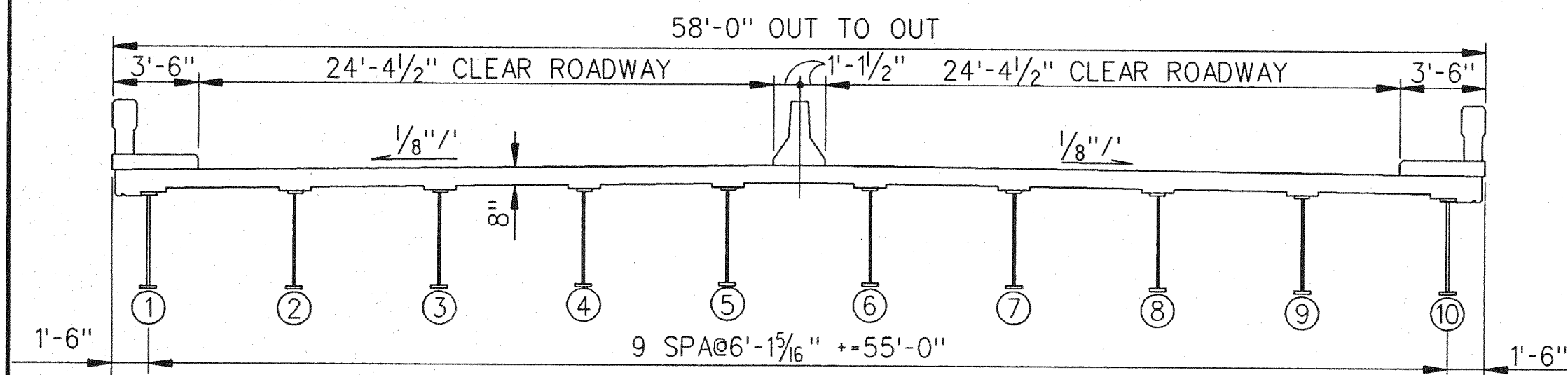
PLAN



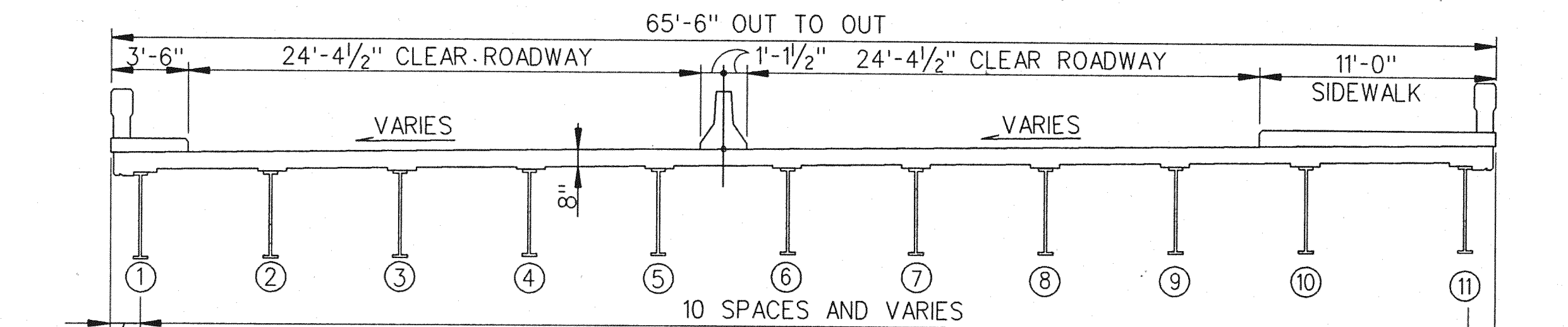
**SECTION A-A
(PROPOSED)**



**SECTION B-B
(PROPOSED)**



**SECTION A-A
(EXISTING)**



**SECTION B-B
(EXISTING)**

NOTES:

FOR SECTION AT DECK JOINTS, SEE SHEETS 38 & 44 OF 57.

FOR BARRIER DETAIL, SEE SHEETS 38 & 44 OF 57.

CLEANING AND COATING OF ALL STRUCTURAL STEEL.

THE TRAIN MOVEMENT AND SPEED INFORMATION SHOWN IN THE PROPOSAL DOES NOT REPRESENT A COMMITMENT BY THE GRAND TRUNK RAILROAD AND CONRAIL RAILROAD AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

THE DESIGN OF THIS STRUCTURE REHABILITATION IS BASED ON CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES HS20 AND ALTERNATE MILITARY LOADING. LIVE LOAD PLUS IMPACT DEFLECTION DOES NOT EXCEED 1/1000 OF SPAN LENGTH AND 1/375 OF CANTILEVER ARM. THE LOAD FACTOR METHOD OF DESIGN WAS USED FOR THIS STRUCTURE.

THE TOP OF ROADWAY SLAB AND TOPS OF BARRIER WALLS ARE PARALLEL TO THE VERTICAL CURVE AND TANGENTS EXCEPT AS MODIFIED BY SUPER-ELEVATION TRANSITION.

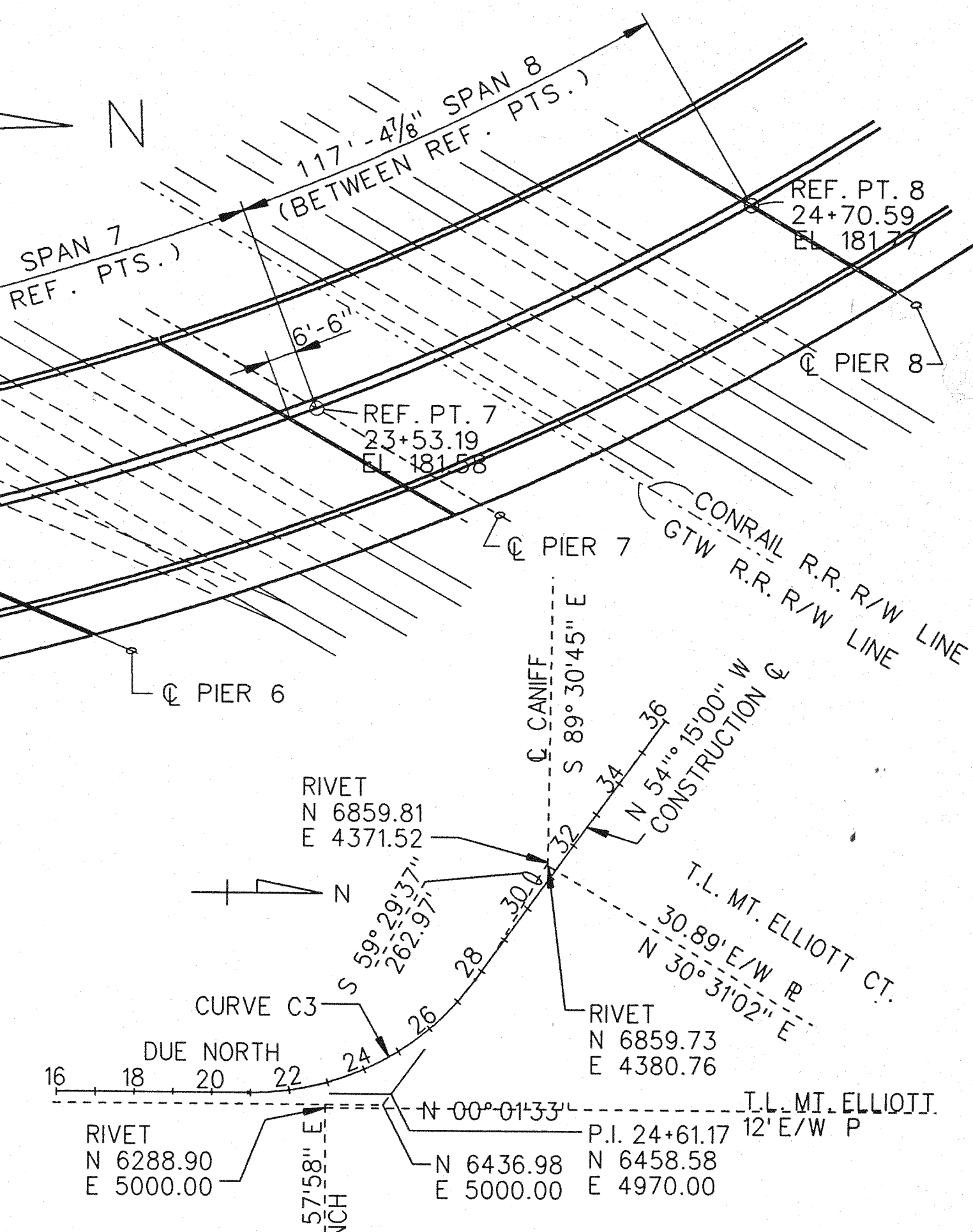
THIS STRUCTURE IS PARTLY ON A HORIZONTAL CURVE. THE FASCIA LINES, BARRIER LINES, MEDIAN, AND LONGITUDINAL CONSTRUCTION JOINT ARE PARALLEL TO THE CURVE AND TANGENT.

THE MAXIMUM FOUNDATION PRESSURES ARE CALCULATED TO BE:

AVG. D.L. ONLY CASE AVG. D.L.-L.L. CASE

ABUTMENTS 3000 PSF 3500 PSF

ANY FORMING, FINISHING, AND CURING OF SUPERSTRUCTURE CONCRETE OTHER THAN SPAN 16, WILL BE INCLUDED IN THE COST FOR SPAN 16.



ALIGNMENT DIAGRAM

NOTES:

THE WORK COVERED BY THESE PLANS INCLUDES REMOVAL OF EXISTING BARRIER WALLS, MEDIAN, DECK LIGHTING, DECK JOINTS, AND HYDRODEMOLISHING THE DECK SLAB A DEPTH OF 1" ± BELOW THE BOTTOM OF THE TOP MAT OF STEEL; REMOVAL OF TOP MAT OF REINFORCEMENT; REMOVAL OF CONCRETE SLAB IN SPAN 16; REMOVAL OF STAIRWAYS; PLACEMENT OF NEW DECK JOINTS, 5" ± CONCRETE OVERLAY WITH EPOXY-COATED REINFORCEMENT FOR A FINAL SLAB THICKNESS OF 9"; TYPE 5 BARRIER WALLS AND MEDIAN; CLEANING AND COATING OF ALL STRUCTURAL STEEL; REPAIRS TO PIERS 1 TO 15 AND NEW ABUTMENTS AT EACH END OF THE BRIDGE.

REMOVAL OF BUILDINGS IS NOT A PART OF THIS CONTRACT.

THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.

DATUM REFERS TO DETROIT CITY DATUM.

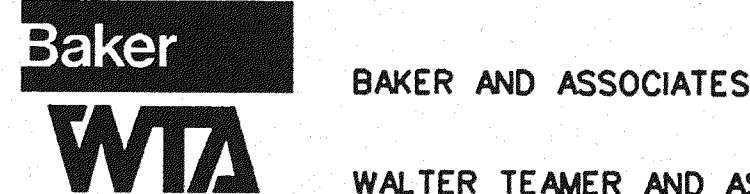
FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL DIAL 800-482-7171 A MINIMUM 3 WORKING DAYS PRIOR TO EXCAVATION IN THE VICINITY OF UTILITIES LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

CARE SHALL BE TAKEN SO THAT REMOVED MATERIAL DOES NOT FALL FROM THE STRUCTURE.

ALL WORK DONE WITHIN THE RAILROAD R.O.W. MUST BE COORDINATED WITH THE RAILROAD.

FOR 24" HIGH PRESSURE GAS MAIN SEE SHEET 4.

AT LOCATION OF TYPE 5 BARRIER WALLS, AND MEDIAN BARRIER WALL THE DEPTH OF HYDRODEMOLISHING SHALL BE 4" ± FROM EXISTING TOP OF SLAB.



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

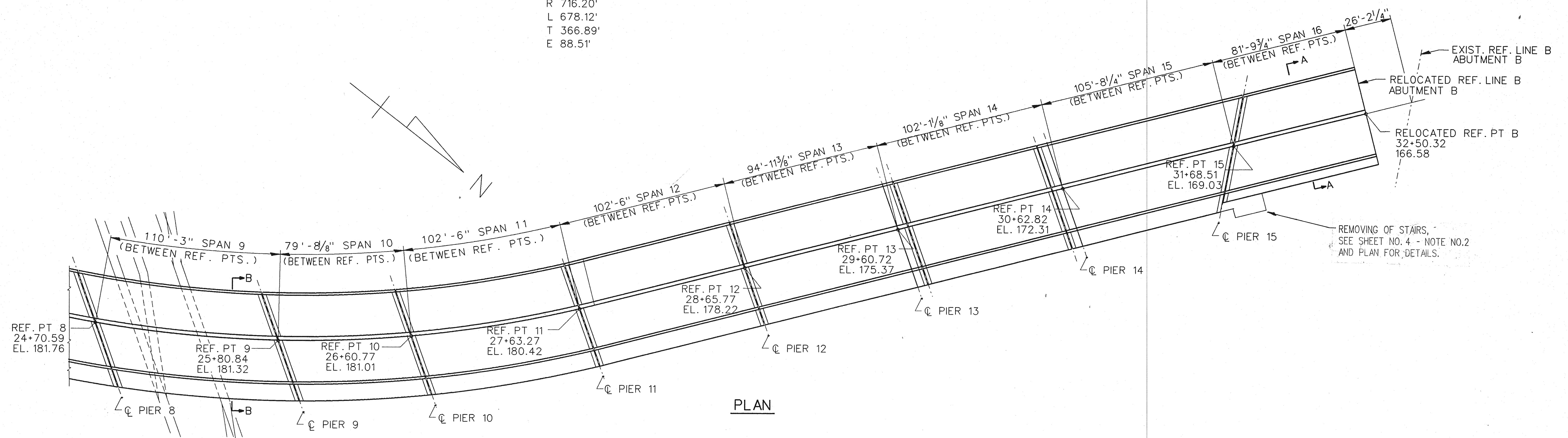
REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	R/L	DATE
DRAWN BY	NAME	MW	DATE 10/93
CHECKED BY	NAME	RAD	DATE 10/93
SHEET	8	OF	57

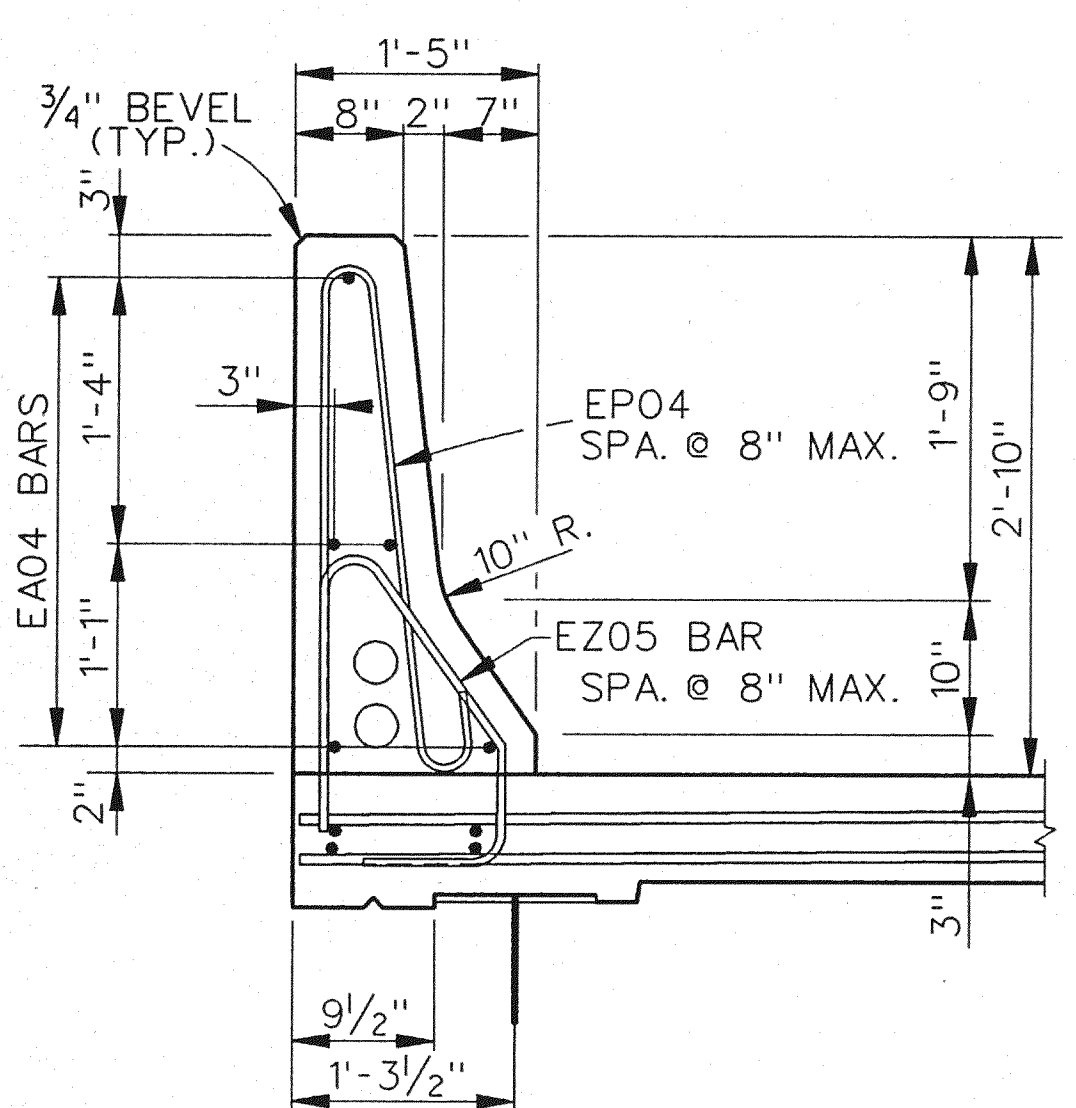
B01 of 82-22-48

CURVE DATA C3

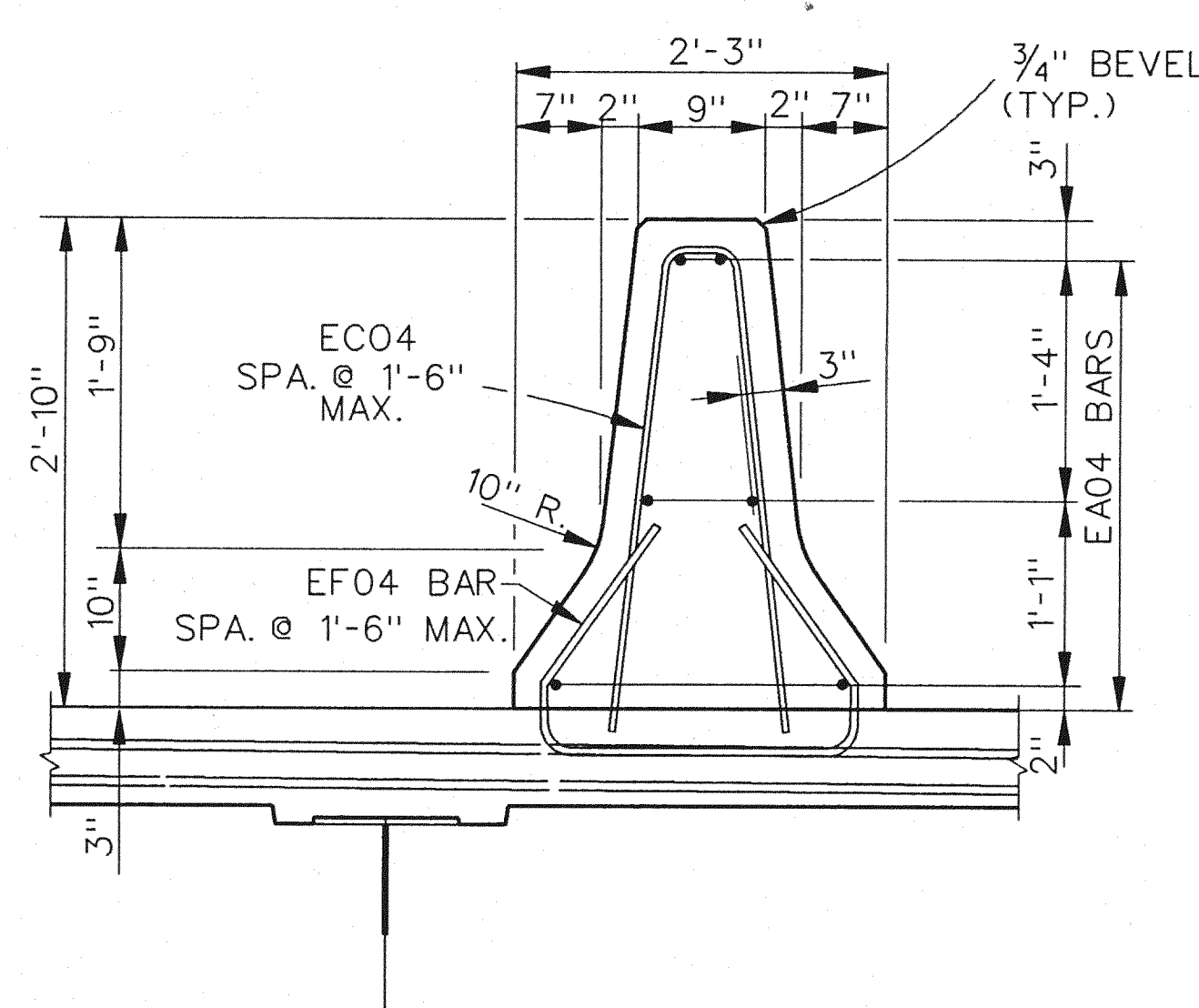
PI STA 24+61.17
 Δ 54° 15' 00"
 D 8° 00'
 R 716.20'
 L 678.12'
 T 366.89'
 E 88.51'



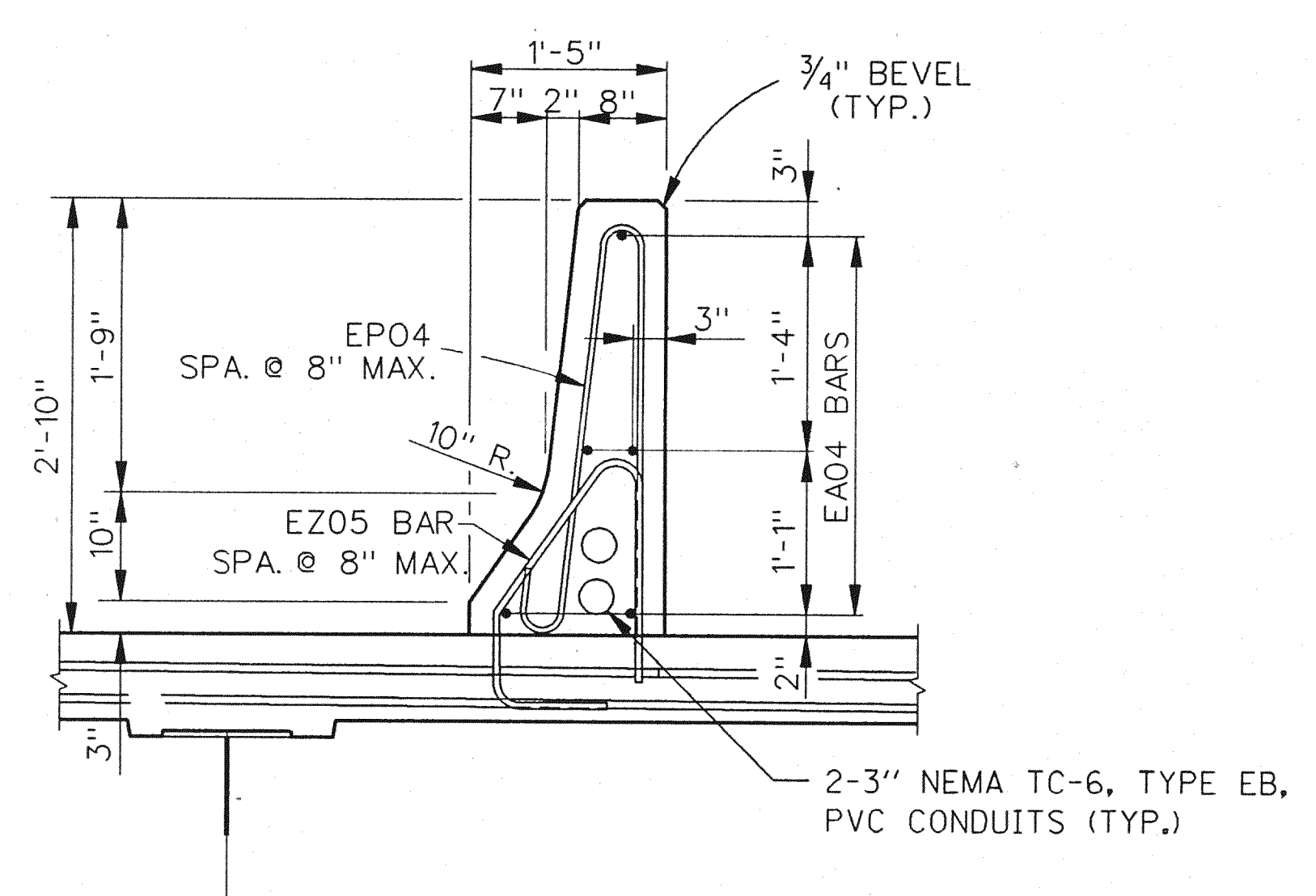
PLAN



TYPICAL BARRIER SECTION



TYPICAL MEDIAN BARRIER SECTION



TYPICAL BARRIER SECTION AT SIDEWALK

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

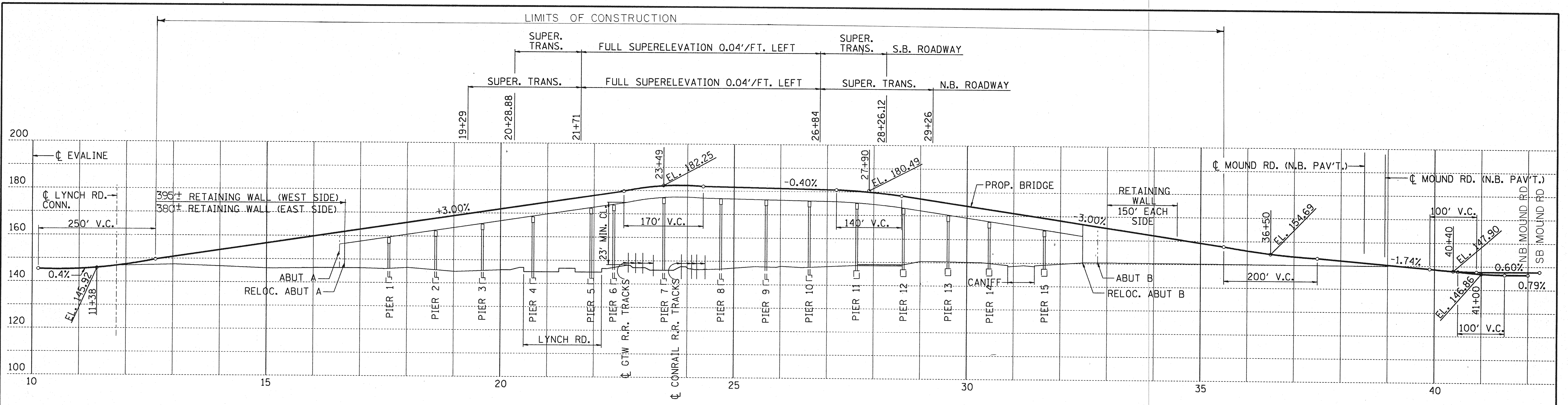
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THE CITY OF DETROIT
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 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 GENERAL PLAN OF STRUCTURE

NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	RAL	DATE
DRAWN BY	NAME	MW	DATE 10/93
CHECKED BY	NAME	RAD	DATE 10/93
SHEET	9	OF	57

B01 of 82-22-48



PROPOSED PROFILE ALONG ϕ MOUNT ELLOITT - MOUND ROAD
GRADE SEPARATION

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

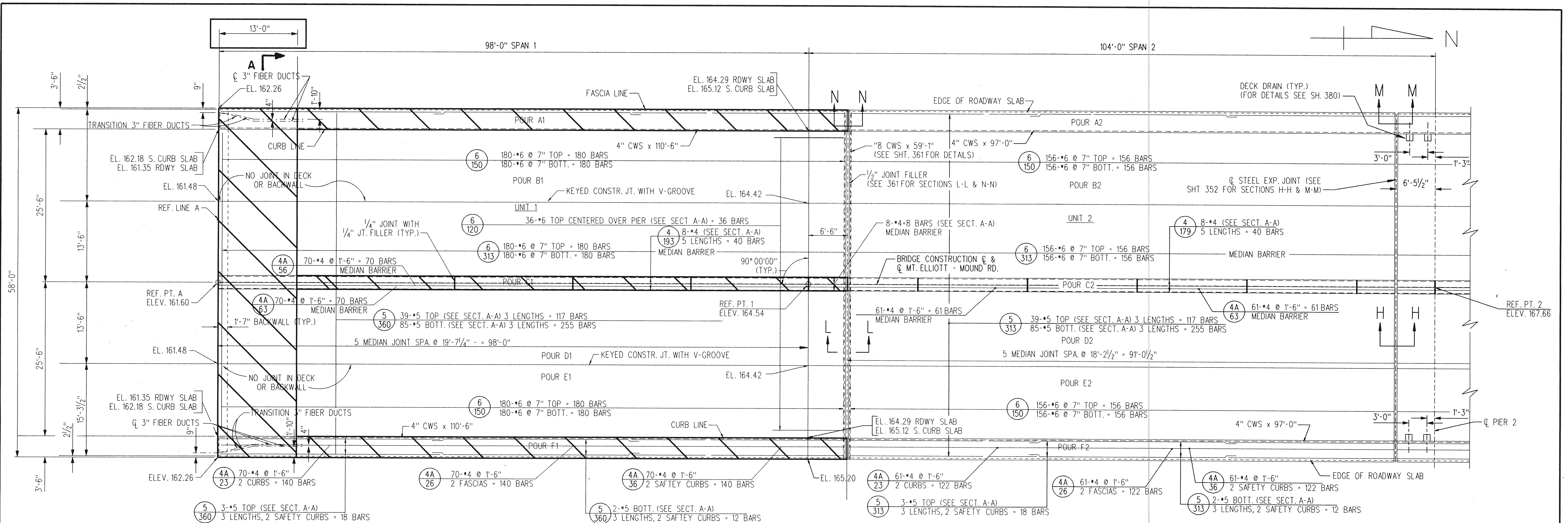
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DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
PROFILE GRADE

NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME WTA	DATE 11/93
CHECKED BY	NAME RAW	DATE 1/94
SHEET	10 OF	57

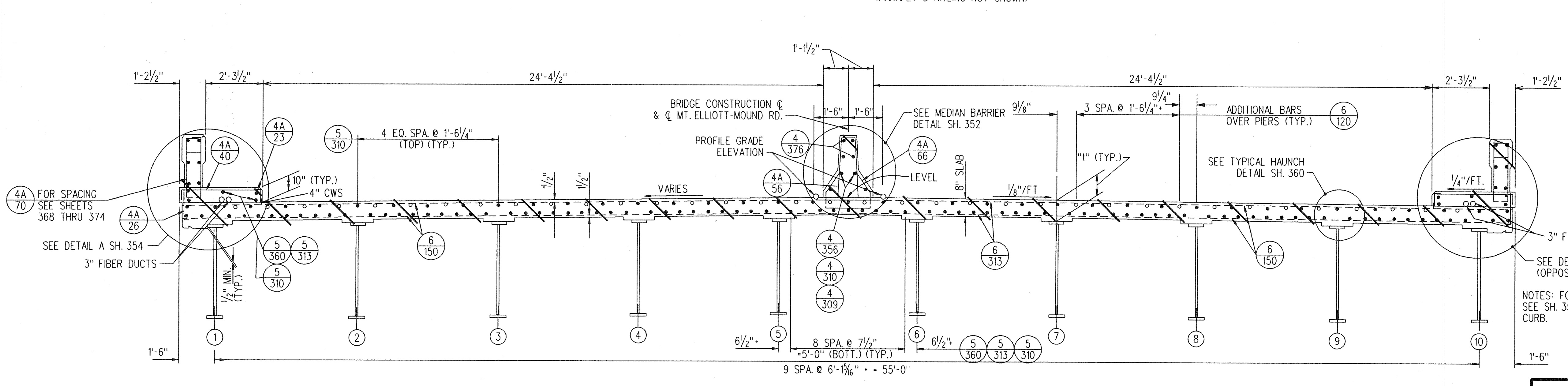
B01 of 82-22-48



SLAB PLAN

SCALE: 1/8" = 1'-0"
 (PARAPET & RAILING NOT SHOWN)

NOTE: S. CURB DENOTES SAFETY CURB



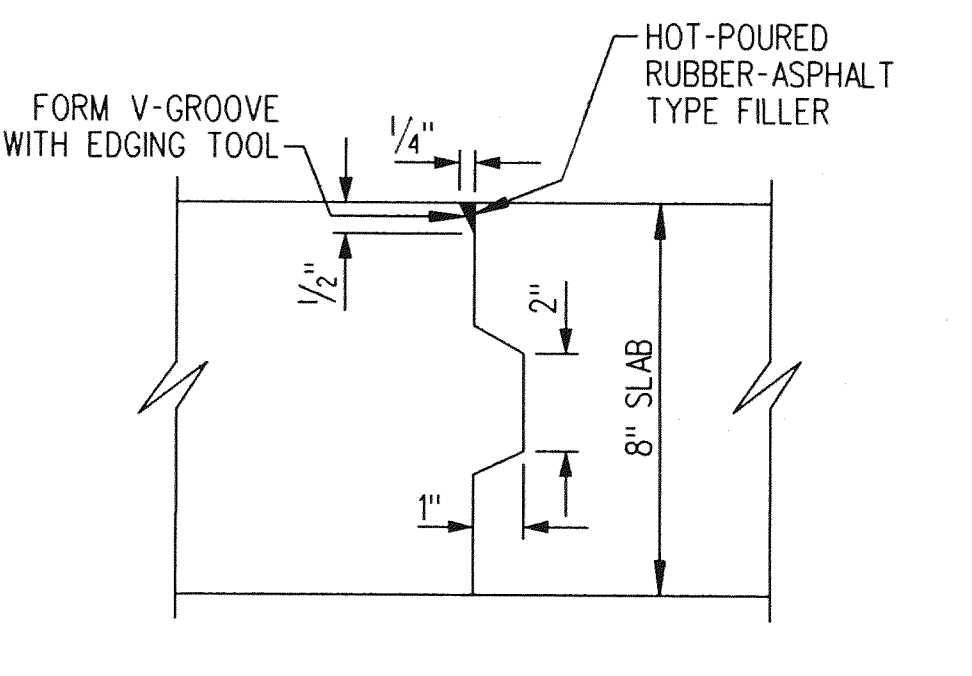
SECTION A-A
 SCALE: 3/8" = 1'-0"

CONCRETE DECK NOTES

FOR GENERAL NOTES ON REINFORCED CONCRETE SEE SH. 308
 ELEVATIONS SHOWN ARE FINAL TOP OF SLAB ELEVATIONS.
 FOR LIGHTING DETAILS SEE SHEETS 368 THRU 376.
 FOR RAILING DETAILS SEE SHEETS 368 THRU 376.
 FOR DRAINAGE DETAILS SEE SHEETS 379 & 380.
 FOR QUANTITIES SEE SHEET 365.
 FOR BILL OF REINFORCING BARS SEE SHEET 366 & 367.
 FOR BAR BENDING DIAGRAMS SEE SHEET 365.
 FOR BACKWALL DETAILS SEE SHEET 356.

THIS DRAWING IS FOR
 REMOVAL OF CONCRETE
 DECK SLAB REFERENCE
 NOTES REFER TO EXISTING
 DRAWINGS

NO.	DESCRIPTION	REVISIONS	DATE	BY



LONGITUDINAL CONSTRUCTION JOINT
 SCALE: 3" = 1'-0"

NOTES: FOR CONCRETE DECK NOTES
 SEE SH. 351. S. CURB DENOTES SAFETY
 CURB.

NOTE:
 THIS SHEET FOR REFERENCE ONLY.

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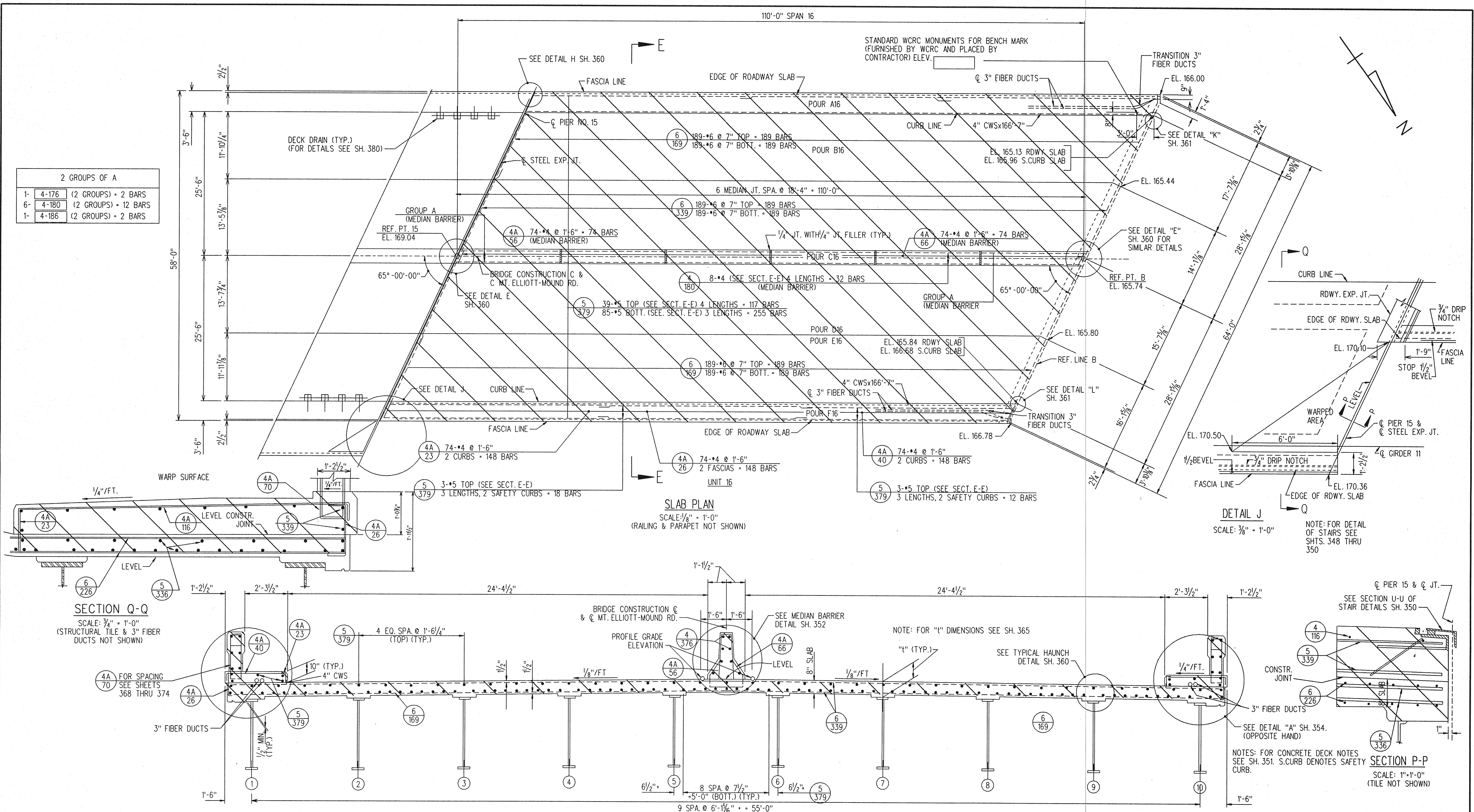
THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SPAN 1 - REMOVAL

SQUAD BOSS	NAME	DATE	BY

CHECKED BY: NAME RAW DATE 1/94
 SHEET 11 OF 57
B01 of 82-22-48

2 GROUPS OF A

1-	4-176	(2 GROUPS) - 2 BARS
6-	4-180	(2 GROUPS) - 12 BARS
1-	4-186	(2 GROUPS) - 2 BARS



SECTION Q-Q
SCALE: 3/4" = 1'-0"
(STRUCTURAL TILE & 3" FIBER DUCTS NOT SHOWN)

SLAB PLAN
SCALE: 1/8" = 1'-0"
(RAILING & PARAPET NOT SHOWN)

SECTION E-E
SCALE: 3/8" = 1'-0"

DETAIL J
SCALE: 3/8" = 1'-0"

SECTION P-P
SCALE: 1" = 1'-0"
(TILE NOT SHOWN)

NOTE: THIS SHEET FOR REFERENCE ONLY.

CONCRETE TO BE REMOVED

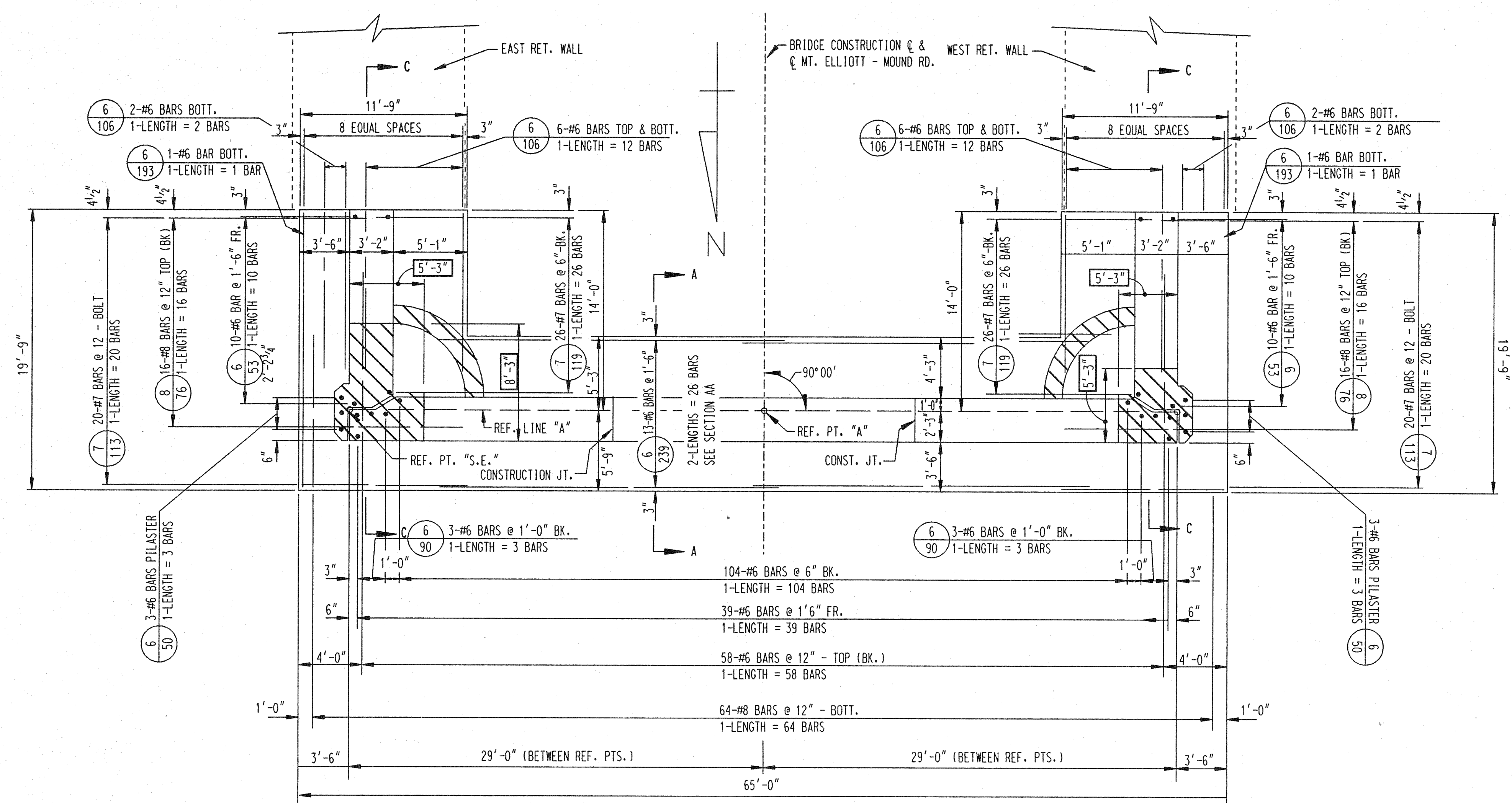
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SPAN 16 - REMOVAL

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REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME WTA	DATE 6/93
CHECKED BY	NAME RAW	DATE 1/94
SHEET	11A	OF 57

B01 of 82-22-48



BILL OF REINFORCING BARS

MARK	SIZE	LENGTH	NO. OF BARS	REMARKS
6-50	6	5'-0"	45	STR.
6-53	6	5'-3"	20	STR.
6-60	6	6'-0"	58	STR.
6-90	6	9'-0"	110	STR.
6-106	6	10'-6"	28	STR.
6-193	6	19'-3"	2	STR.
6-239	6	23'-9"	26	STR.
7-113	7	11'-3"	40	STR.
7-119	7	11'-9"	52	STR.
8-76	8	7'-6"	32	STR.
8-106	8	10'-6"	64	STR.

CONCRETE POURS

POUR	LOCATION	CU. Yd.
A	SUBFOOTING	17.1
B	FOOTING	101.5

QUANTITIES

STEEL REINFORCEMENT	8,536 LBS
GRADE A (10B GRAVEL OR 10B SLAG) CONCRETE SUBSTRUCTURE	118.6 CU. YDS.
HEATING AND HOUSING SUBSTRUCTURE CONCRETE	101.5 CU. YDS.

GENERAL NOTES

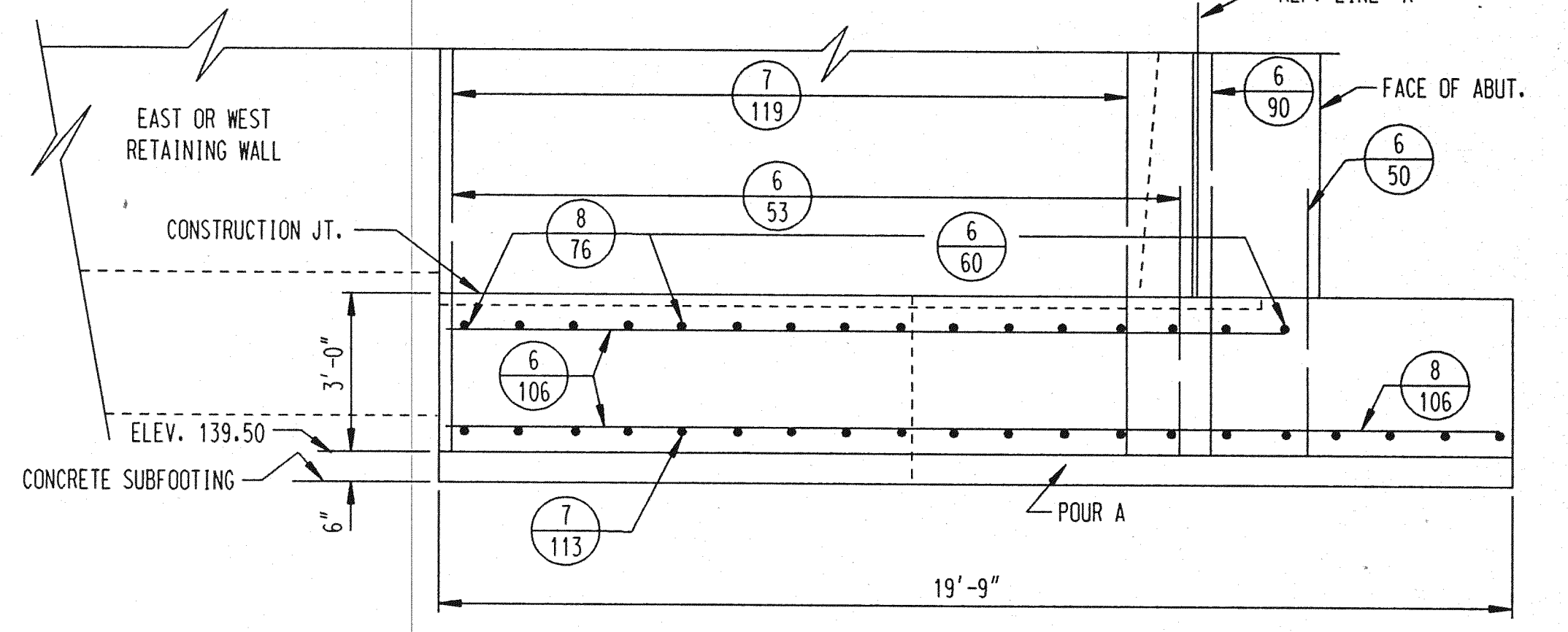
FOR REINFORCED CONCRETE

BRIDGE SEAT:
THE BRIDGE SEAT SHALL BE FINISHED IN A TRUE PLANE AT THE ELEVATION SHOWN AND SHALL NOT VARY MORE THAN 1/8" UNDER A TEN FOOT STRAIGHT EDGE OR MORE THAN 1/16" UNDER ANY BEARING.

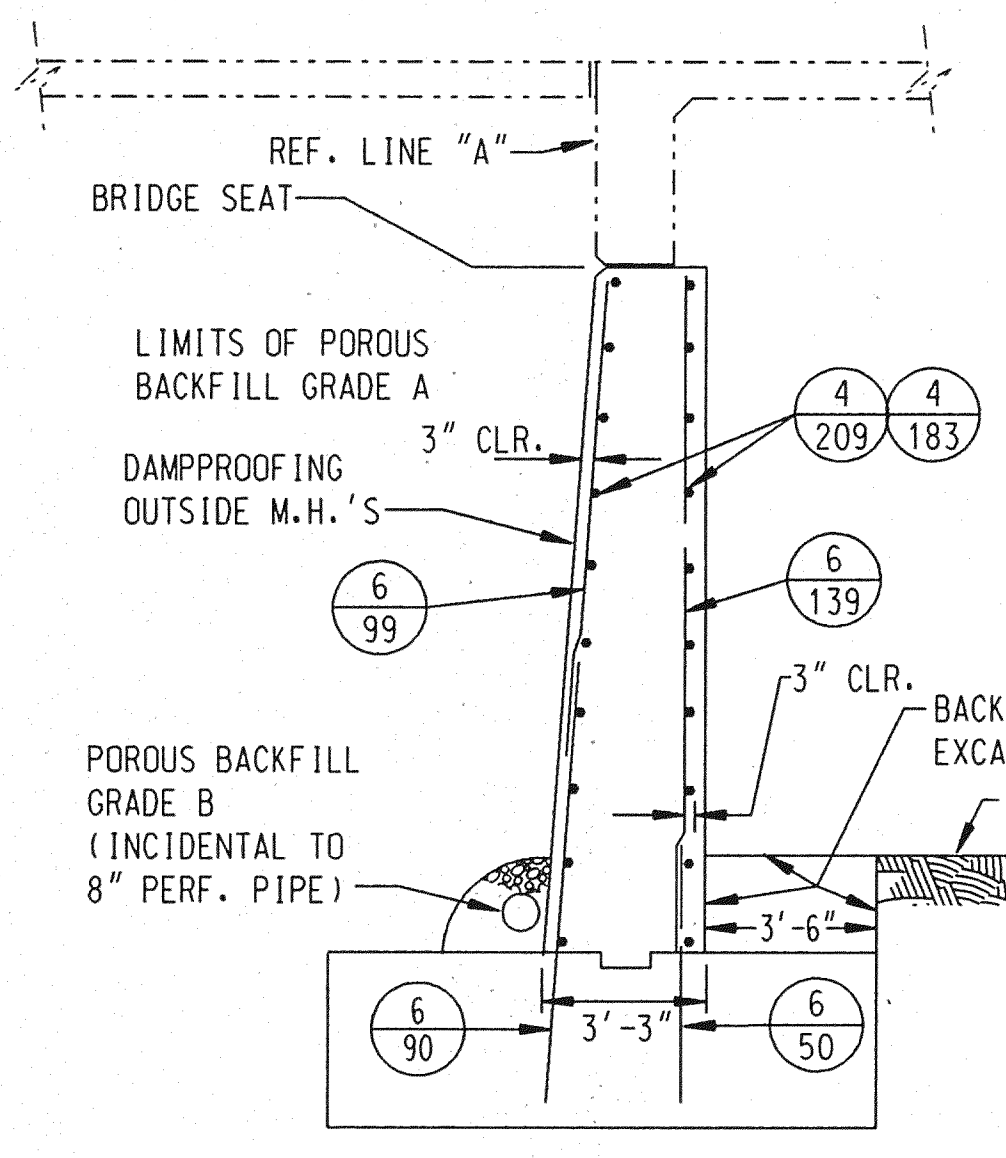
ANCHOR BOLTS AND POSITION DOWELS:
ANCHOR BOLTS AND POSITION DOWELS SHALL BE SET ACCURATELY TO TEMPLATE.

STEEL REINFORCEMENT:
BENDS FOR ALL BARS SHALL BE MADE AROUND PIN DIAMETERS AS RECOMMENDED BY THE CONCRETE REINFORCING STEEL INSTITUTE.

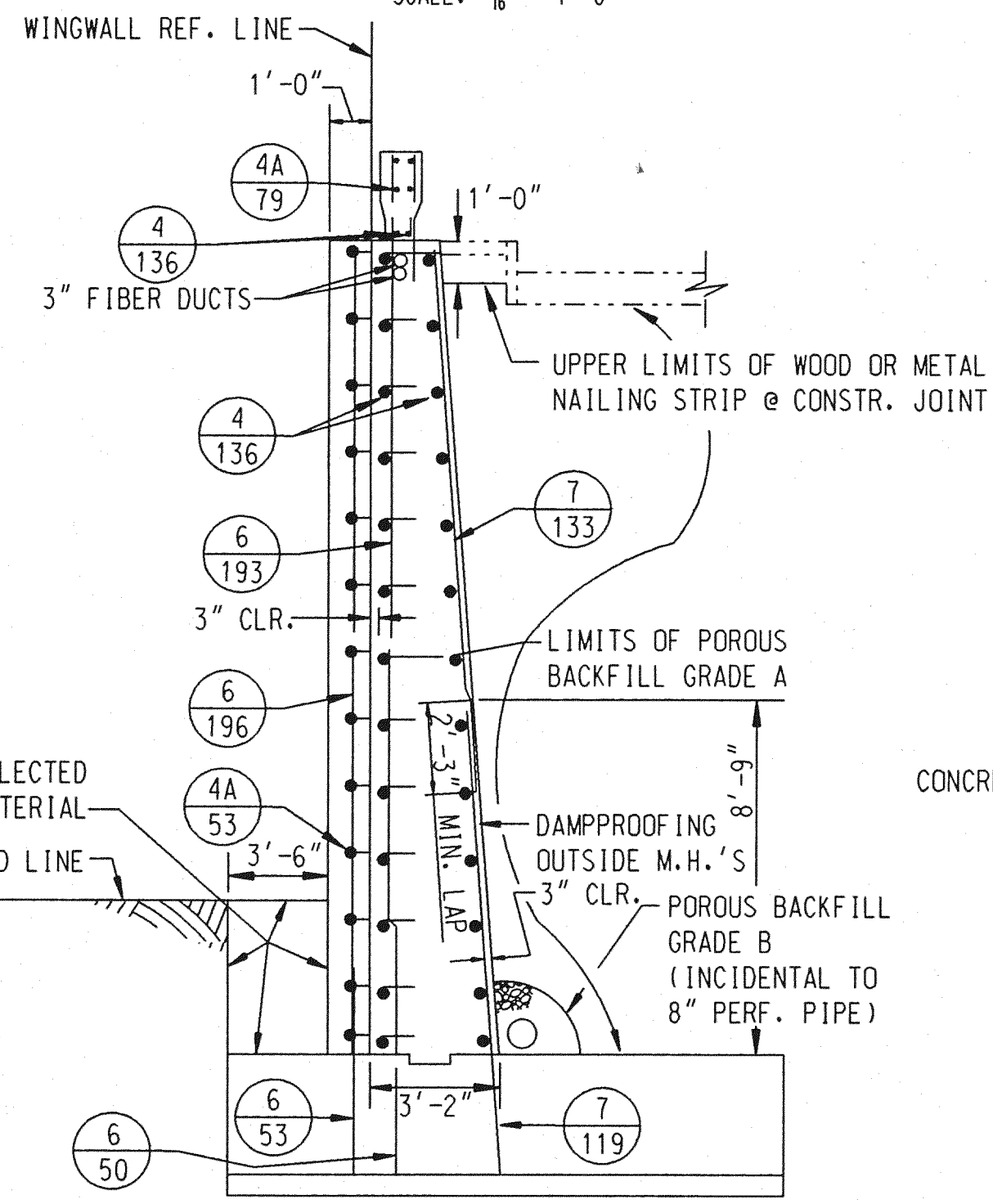
PROTECTIVE SEALANT COATING:
THE TOPS OF PIERS 4, 5, 6, 8-12 & 15 SHALL BE GIVEN AN APPLICATION OF PROTECTIVE SEALANT COATING FOR CONCRETE PRIOR TO PLACING OF MASONRY PLATES.



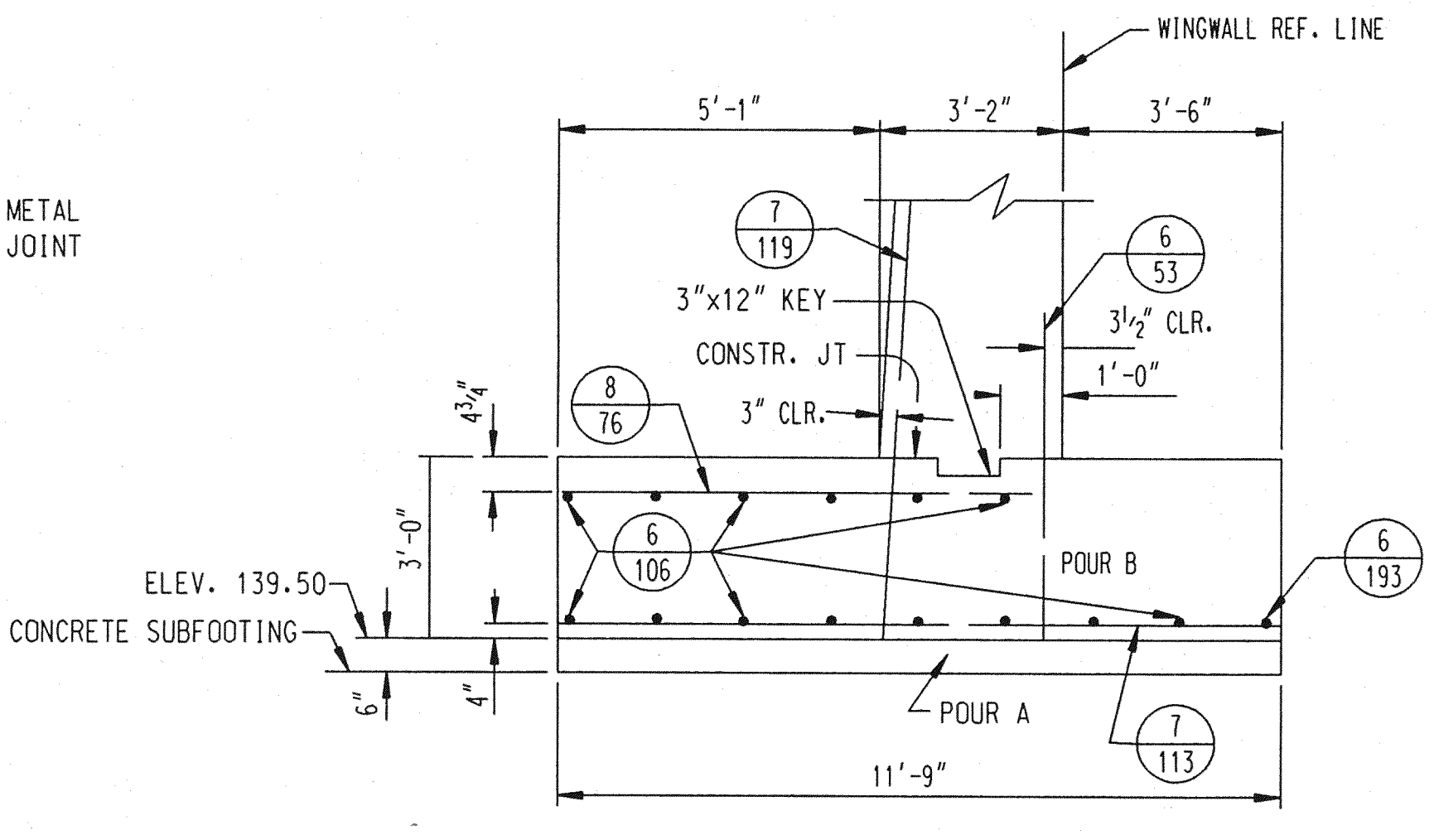
SECTION C-C
SCALE: 3/8" = 1'-0"



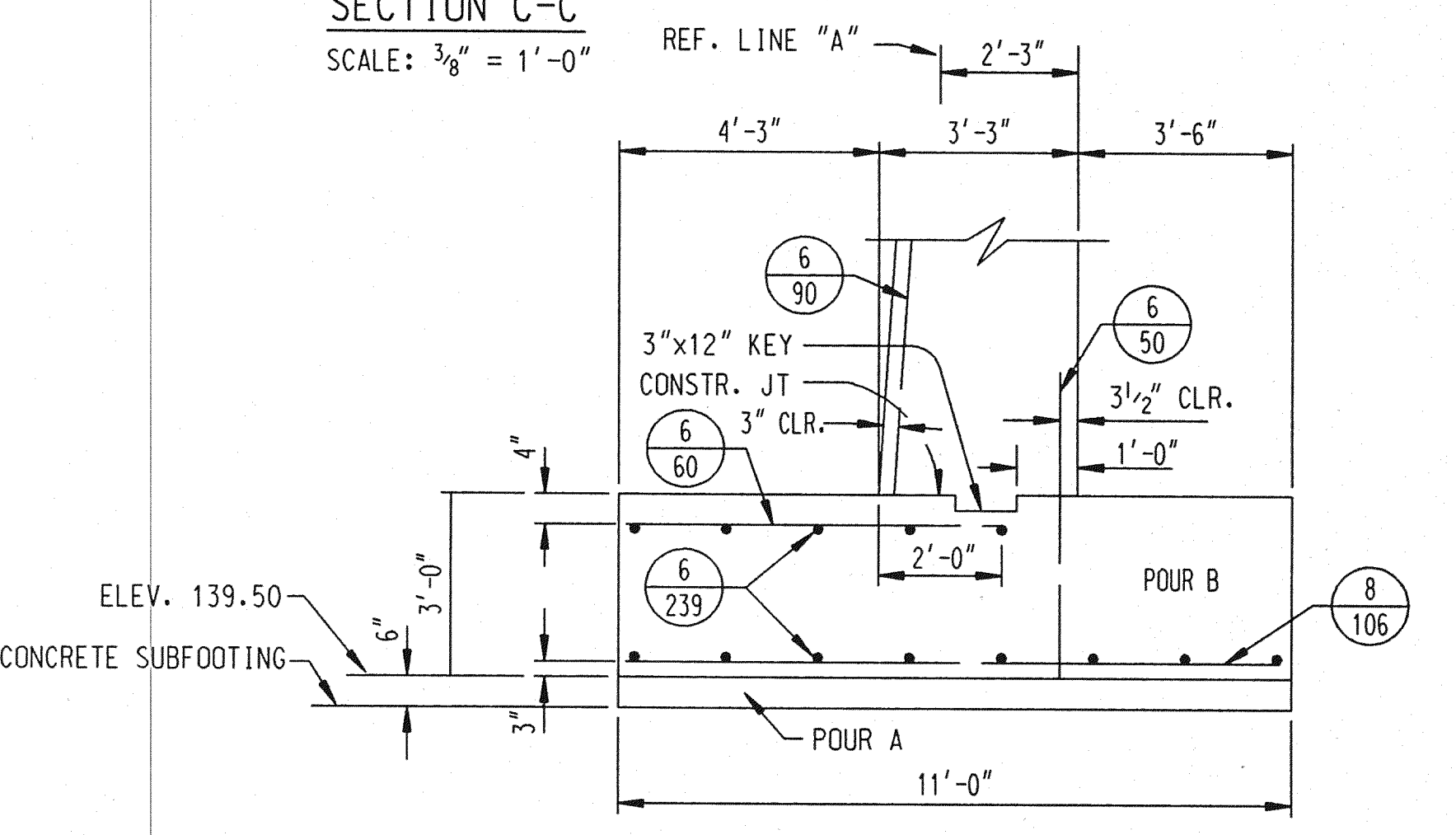
SECTION D-D
SCALE: 1/4" = 1'-0"



SECTION E-E
SCALE: 1/4" = 1'-0"

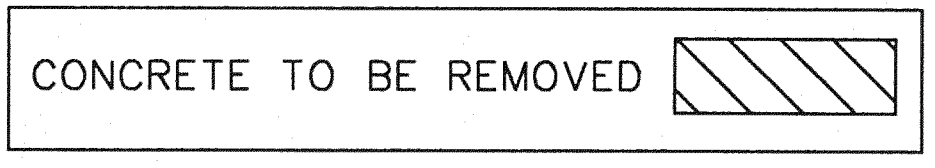


SECTION B-B
SCALE: 3/8" = 1'-0"



SECTION A-A
SCALE: 3/8" = 1'-0"

NOTE:
THIS SHEET FOR REFERENCE ONLY.



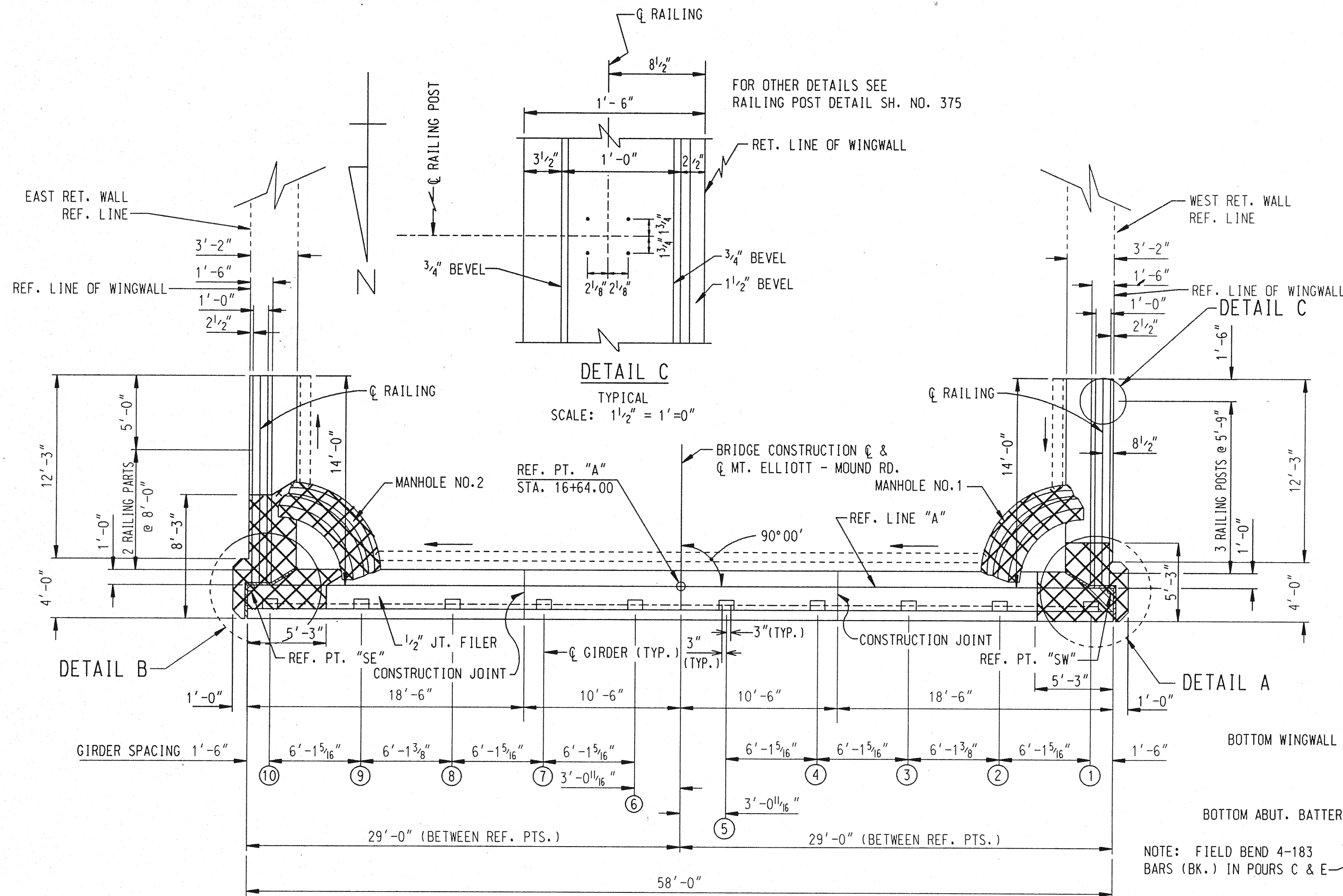
REVISIONS

NO.	DESCRIPTION	DATE	BY

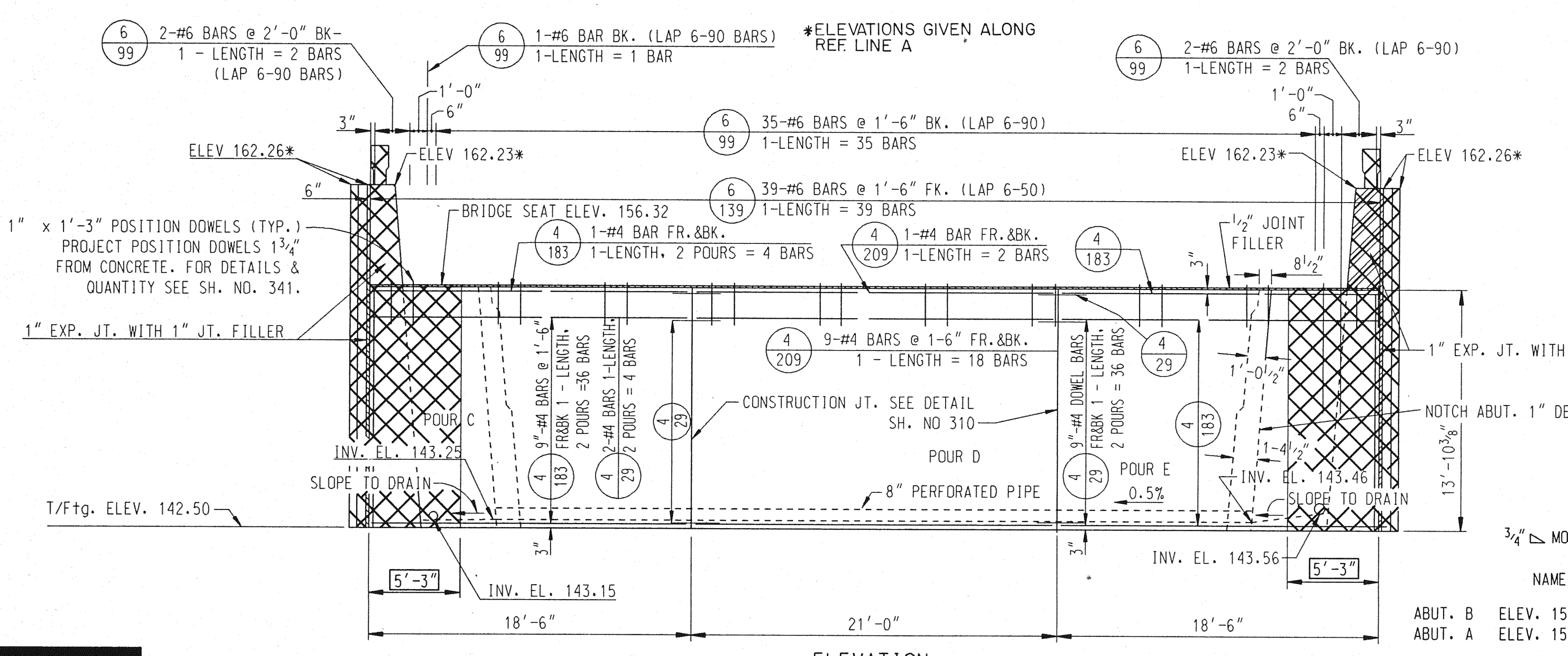
THE CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
ABUTMENT A - REMOVAL

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME WTA	DATE 6/93
CHECKED BY	NAME RAW	DATE 1/94
SHEET	12 OF 57	

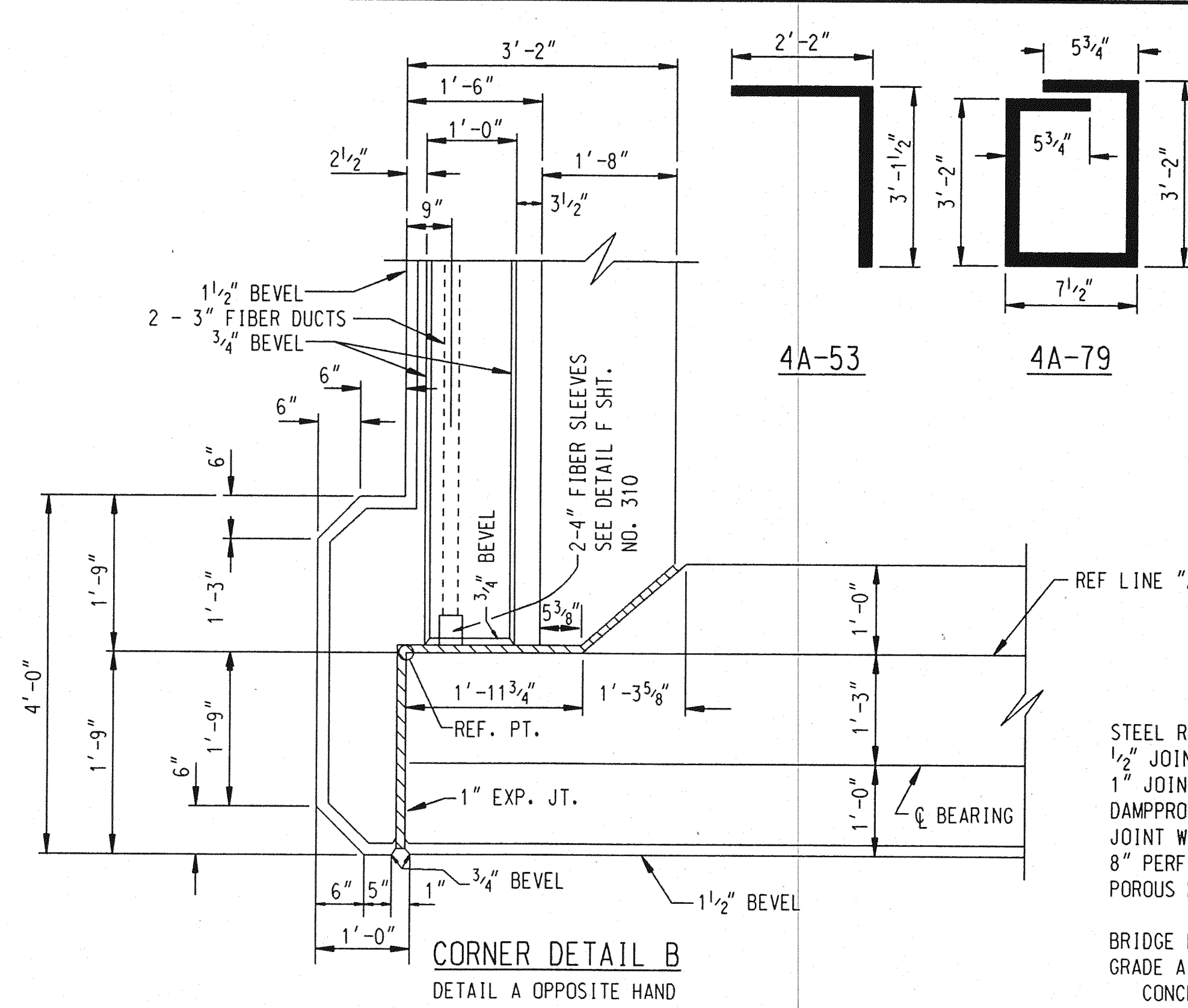
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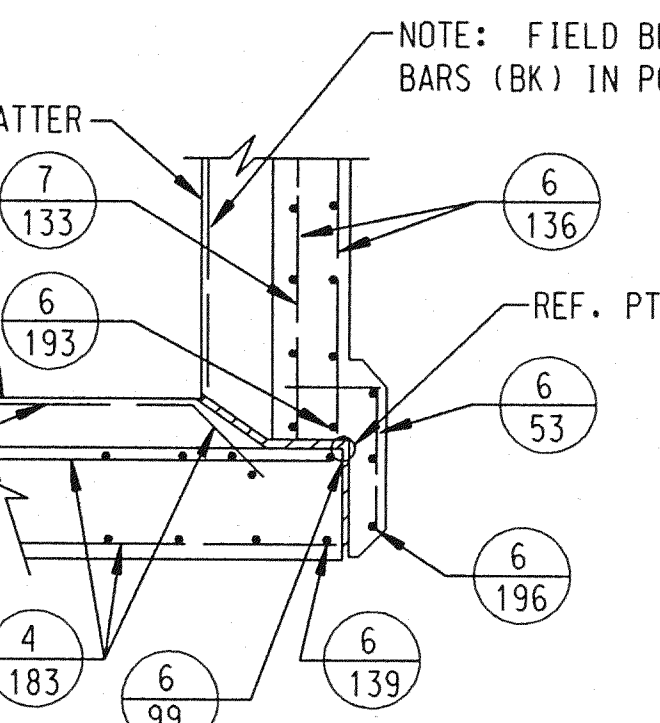
PLAN ABOVE FOOTING



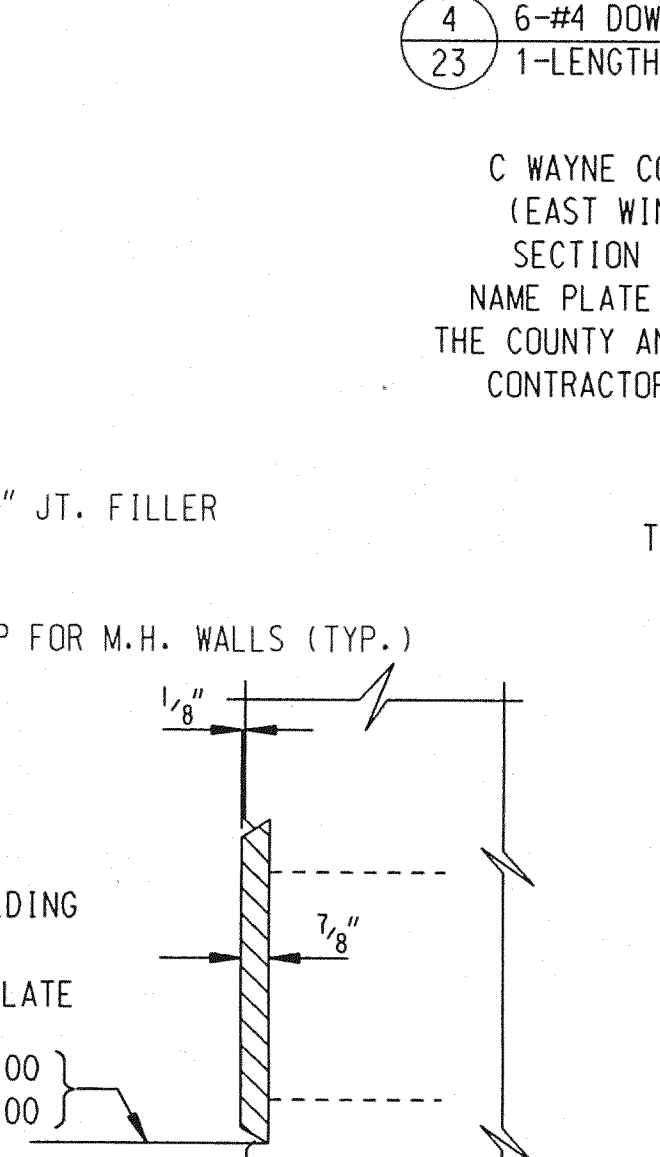
ELEVATION



CORNER DETAIL B
DETAIL A OPPOSITE HAND



SECTION F-F



SECTION G-G

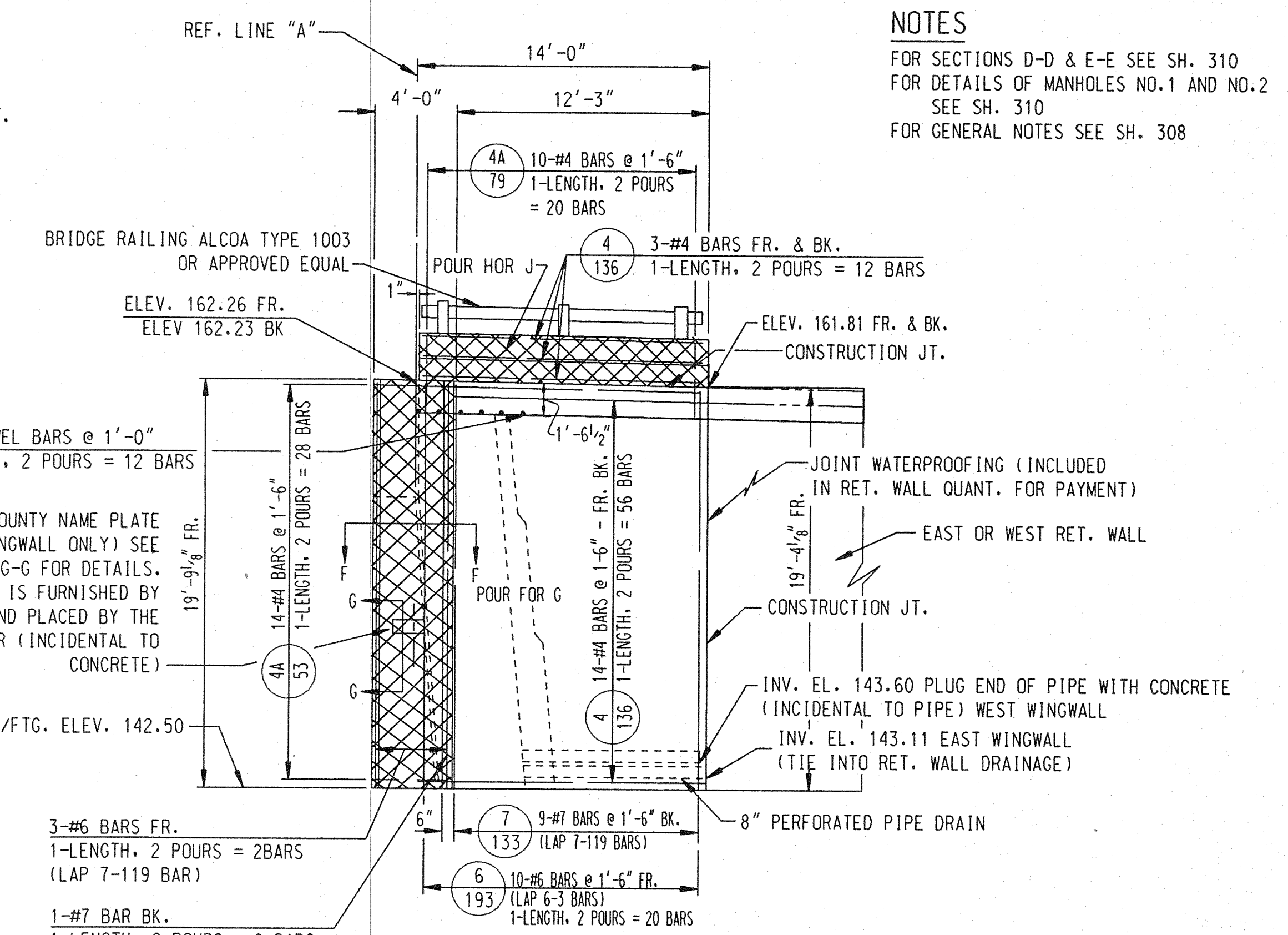
BILL OF REINFORCING BARS				
MARK	SIZE	LENGTH	NO. OF BARS	REMARKS
4-23	#4	2'-3"	12	STR.
4-29	#4	2'-9"	40	STR.
4A-53	#4	5'-3"	28	BENT
4A-79	#4	7'-9"	20	BENT
4-139	#4	13'-6"	68	STR.
4-183	#4	18'-3"	40	STR.
4-209	#4	20'-9"	20	STR.
4-99	#6	9'-9"	40	STR.
4-139	#6	13'-9"	39	STR.
4-193	#6	19'-3"	20	STR.
4-196	#6	19'-6"	6	STR.
7-133	#7	13'-3"	20	STR.

QUANTITIES

STEEL REINFORCEMENT	4358 LBS
1/2" JOINT FILLER	255 SQ. FT.
1" JOINT FILLER	188 SQ. FT.
DAMP-PROOFING	861 SQ. FT.
JOINT WATERPROOFING	43 SQ. FT.
8" PERFORATED PIPE UNDERDRAIN	58 LIN. FT.
POROUS BACKFILL GRADE A (C.I.P.)	433 CU. YDS.
BRIDGE RAILING - PARAPET TYPE	28 LIN. FT.
GRADE A (10B GRAVEL OR 10B SLAG)	
CONCRETE - SUBSTRUCTURE	134.4 CU. YDS.
RUBBED SURFACE FINISH	1414 SQ. FT.
HEATING & HOUSING SUBSTRUCTURE CONCRETE	134.4 CU. YDS.
3" FIBER DUCT	56 LIN. FT.

NOTES

FOR SECTIONS D-D & E-E SEE SH. 310
FOR DETAILS OF MANHOLES NO. 1 AND NO. 2
SEE SH. 310
FOR GENERAL NOTES SEE SH. 308



ELEVATION WEST WINGWALL
EAST WINGWALL OPPOSITE HAND

NOTE:
THIS SHEET FOR REFERENCE ONLY.

NO.	DESCRIPTION	DATE	BY

THE CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
ABUTMENT A - REMOVAL

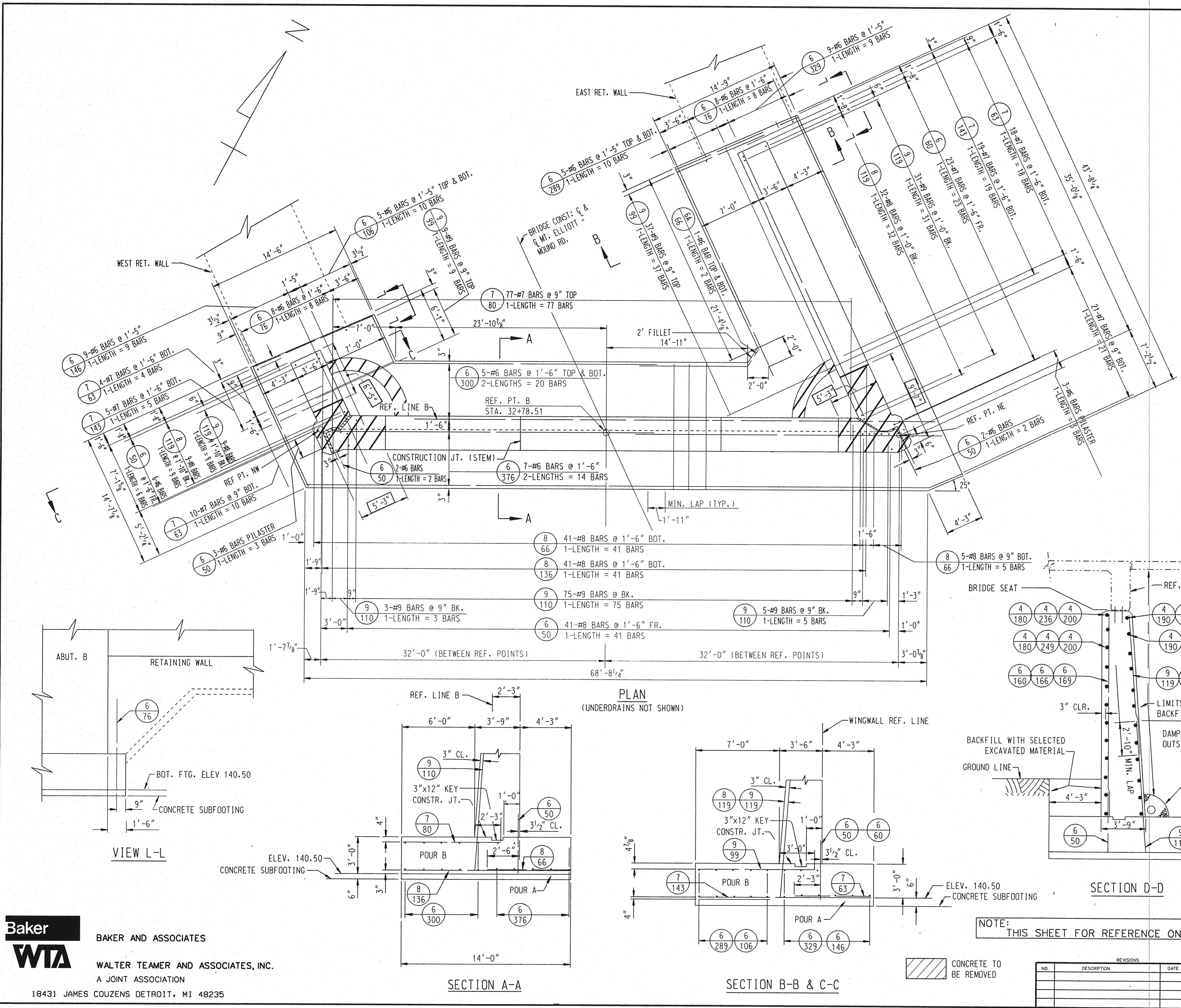
SOIAD BOSS	NAME	DATE

CHECKED BY: NAME RAW DATE 1/94
SHEET 13 OF 57
B01 of 82-22-48

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THE EXISTING NAME PLATE SHALL BE CAREFULLY REMOVED FROM THE ABUTMENT AND SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. IT SHALL THEN BE PLACED IN STORAGE UNTIL READY FOR PLACEMENT WITH THE NEW STRUCTURE NAME PLATE INSTALLED ON THE ABUTMENT. COST INCLUDED IN "STRUCTURE NAME PLATE".

CONCRETE TO BE REMOVED



QUANTITIES FOR FOOTING

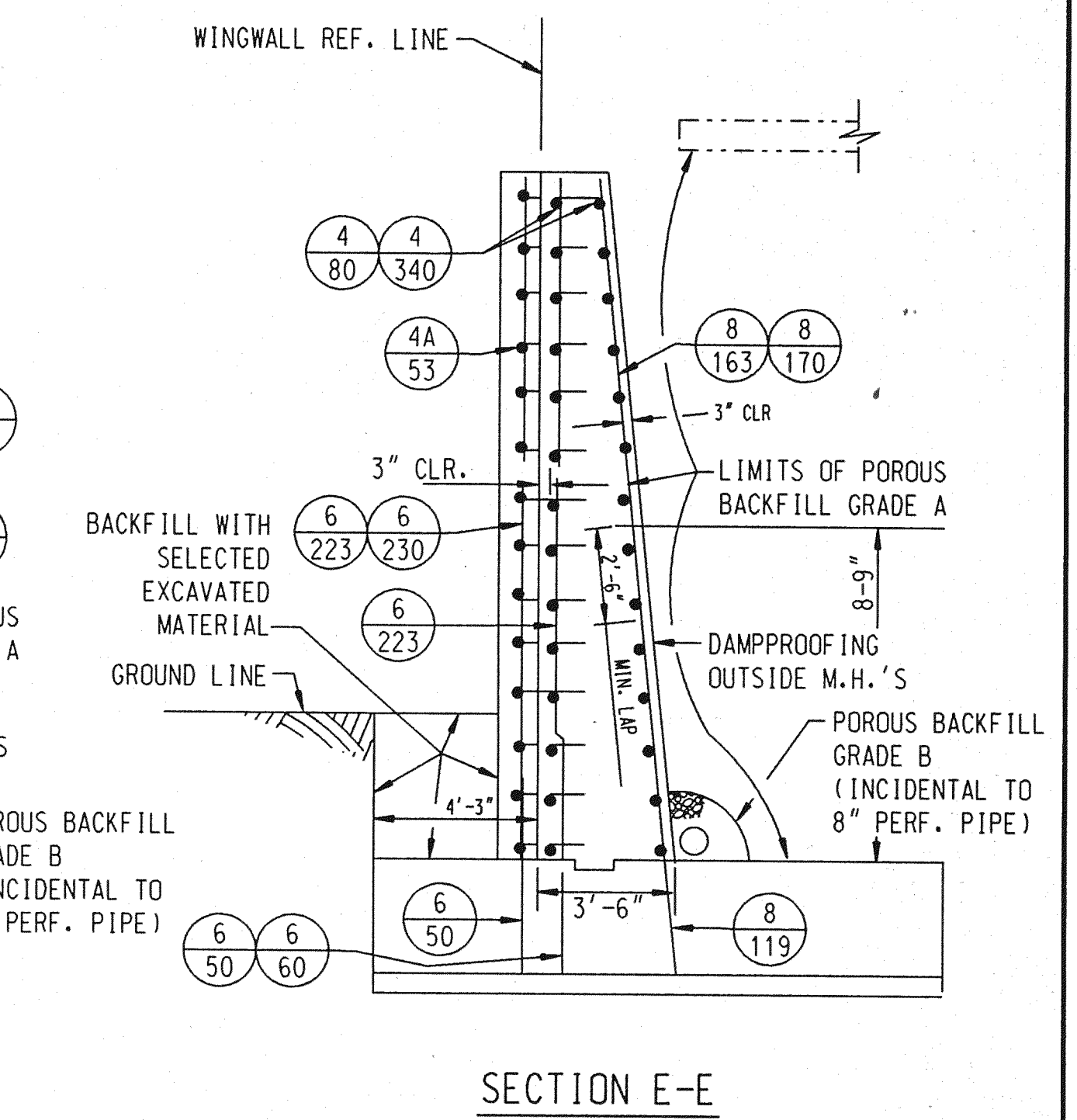
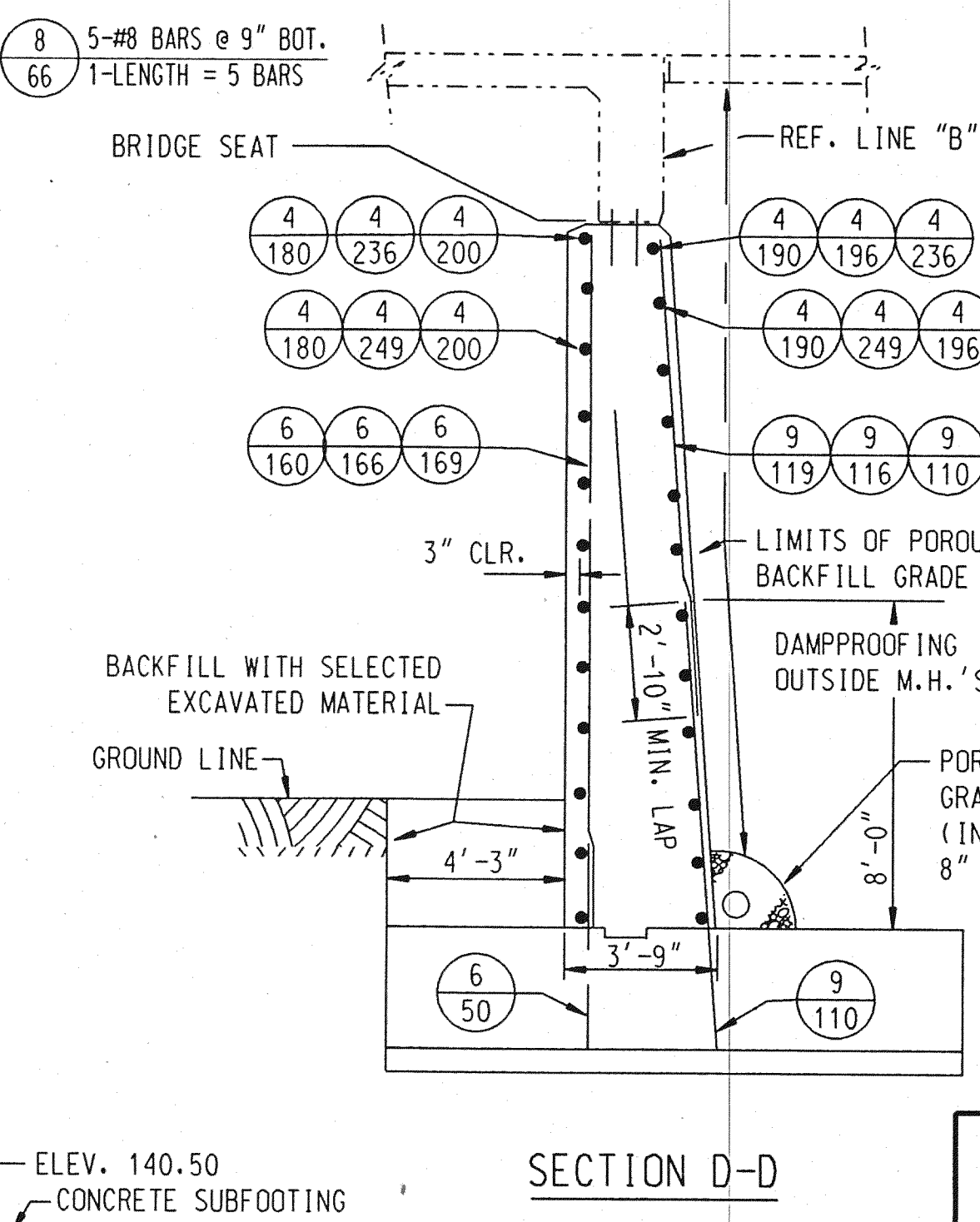
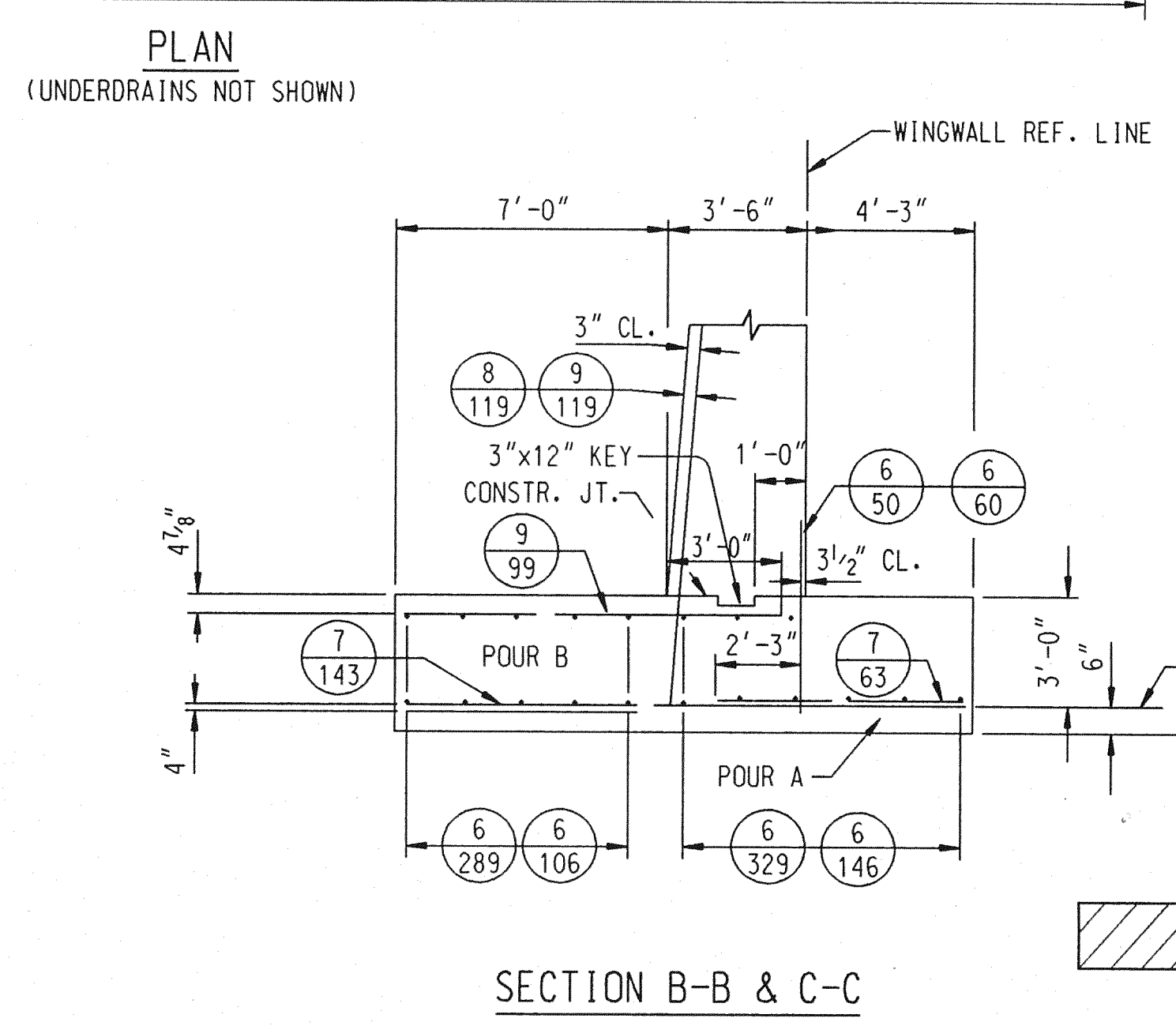
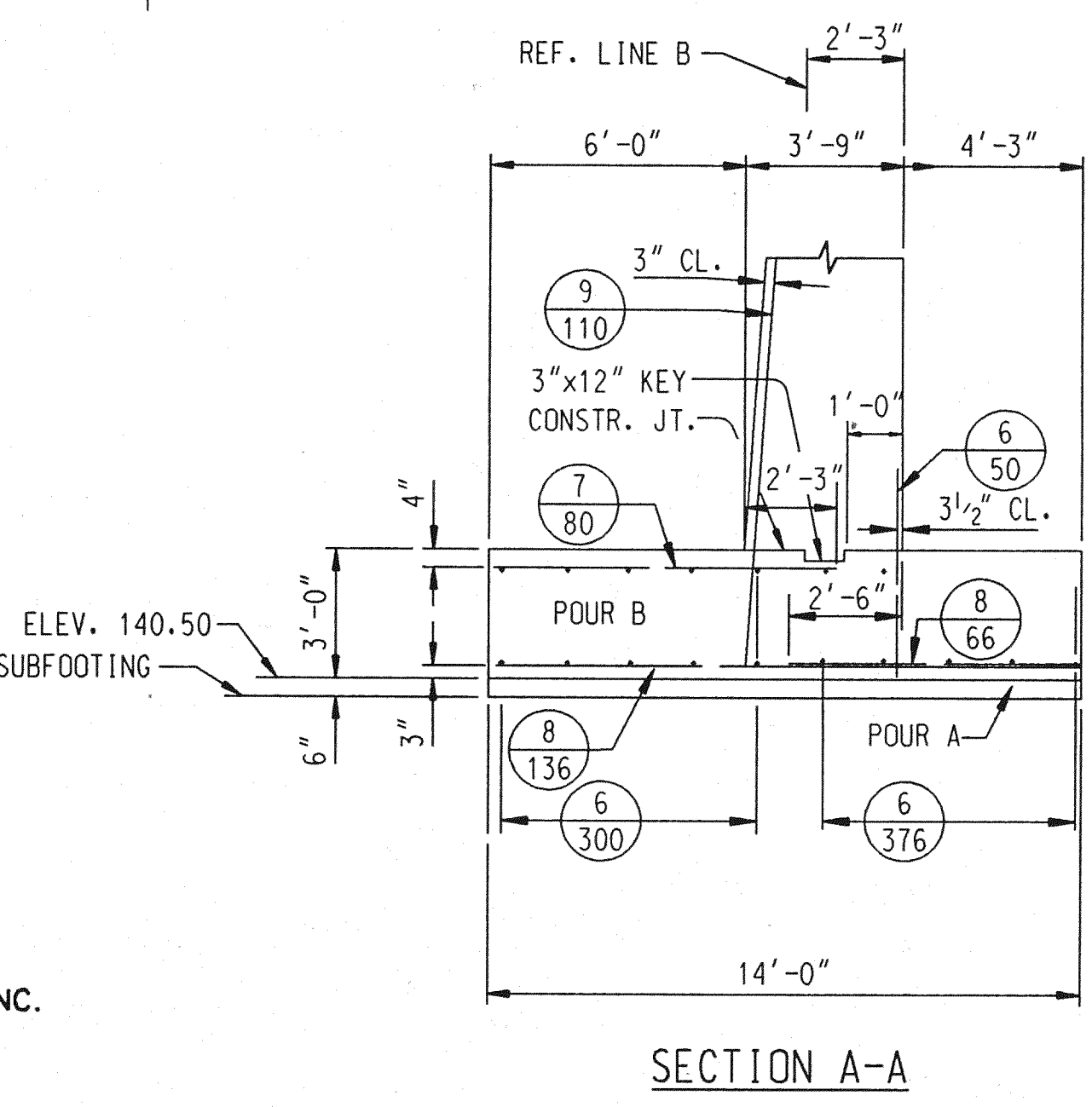
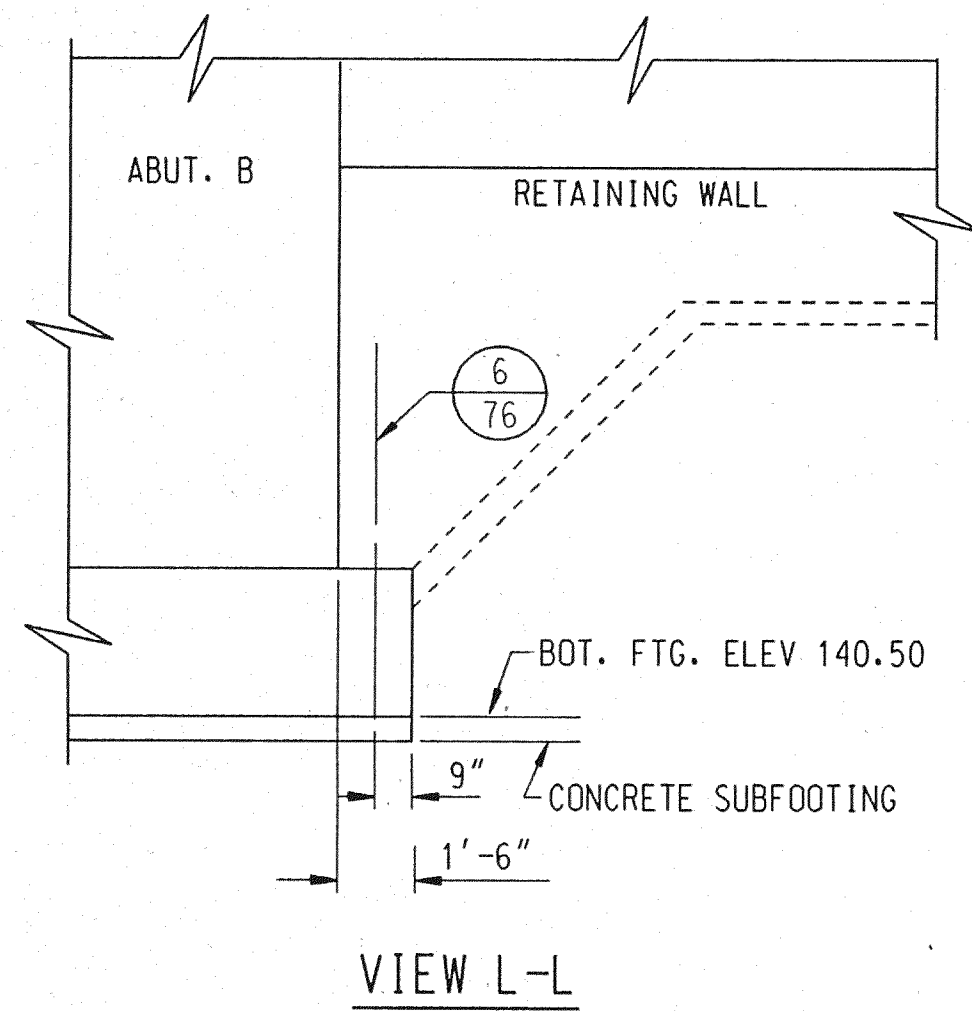
Steel Reinforcement	16.137 lbs.
Grade A(10B Gravel or 10B Slag)	188.1 cu yds.
Concrete - Substructure	161.1 cu yds
Heating and Housing Substructure	

GENERAL NOTES FOR REINFORCED CONCRETE

- Bridge Seat:**
The bridge seat shall be finished in a true plane at the elevation shown and shall not vary more than 1/8" under a ten foot straight edge or more than 1/16" under any bearing.
- Anchor Bolts and Position Dowels:**
Anchor bolts and Position Dowels shall be set accurately to template.
- Steel Reinforcement:**
Bends for all bars shall be made around pin diameters as recommended by the Concrete Reinforcing Steel Institute.

QUANTITIES FOR ABOVE FOOTING

Steel Reinforcement	8,292 lbs.
1/2" Joint Filler	100 sq. Ft.
1" Joint Filler	242 sq. Ft.
Dampproofing	1443 sq. Ft.
Joint Waterproofing	55 sq. Ft.
8" Perforated Pipe Underdrain	76 Lin. Ft.
8" Cast Iron Pipe	9 Lin. Ft.
Poros Backfill Grade A(C.I.P.)	1013 Cu. Yds.
Fence on Structure and Retaining Walls	42 Lin. Ft.
Bridge Railing - Parapet Type	42 Lin. Ft.
Grade A(10B Gravel or 10B Slag)	
Concrete - Substructure	211.3 Cu. Yds.
Rubbed Surface Finish	1941 sq. Ft.
Heating and Housing Substructure Concrete	211.3 Cu. Yds.
3" Fiver Duct	85 Lin. Ft.



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DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
ABUTMENT B - REMOVAL

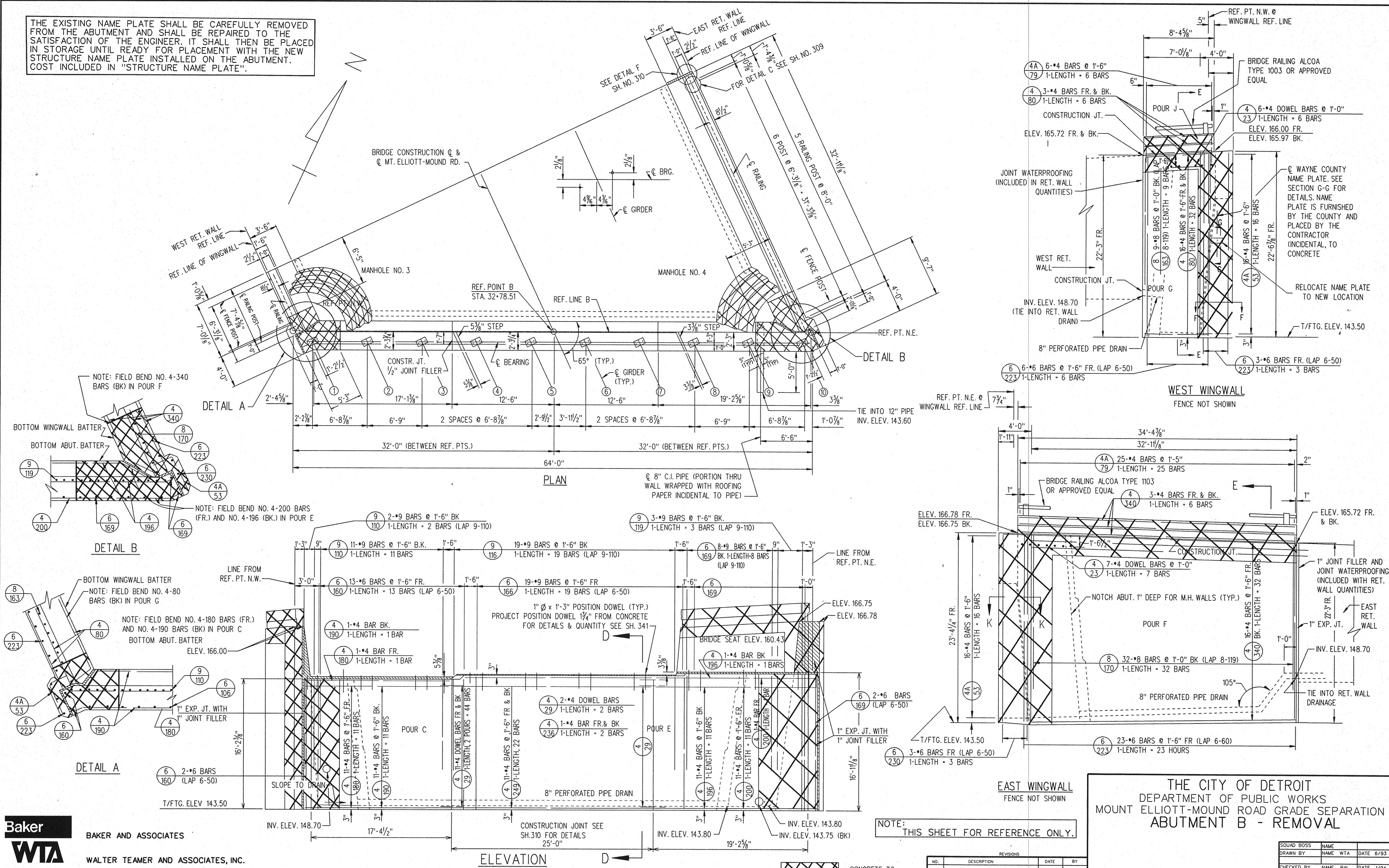
NOTE: THIS SHEET FOR REFERENCE ONLY.

CONCRETE TO BE REMOVED

NO.	DESCRIPTION	REVISIONS	DATE	BY

DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	14	OF 57
B01 OF 82-22-48		

THE EXISTING NAME PLATE SHALL BE CAREFULLY REMOVED FROM THE ABUTMENT AND SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. IT SHALL THEN BE PLACED IN STORAGE UNTIL READY FOR PLACEMENT WITH THE NEW STRUCTURE NAME PLATE INSTALLED ON THE ABUTMENT. COST INCLUDED IN "STRUCTURE NAME PLATE".



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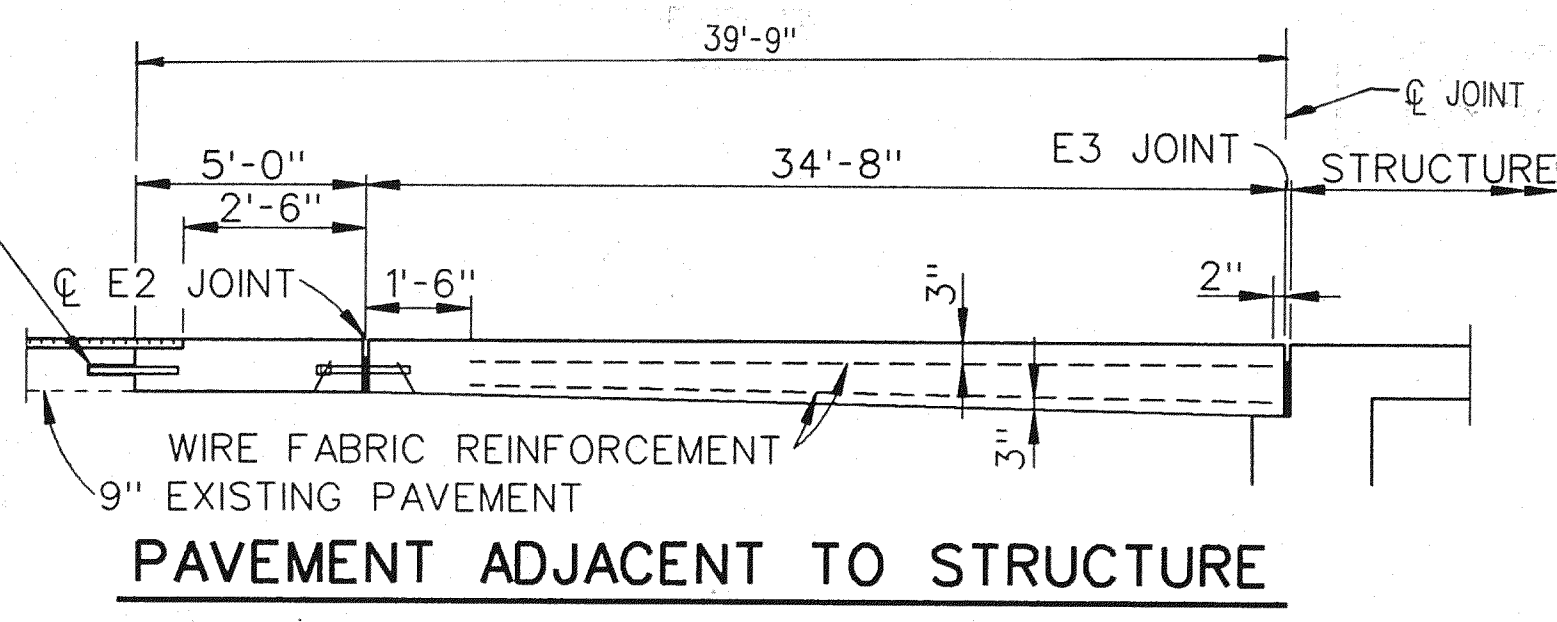
NOTE: THIS SHEET FOR REFERENCE ONLY.

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DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
ABUTMENT B - REMOVAL

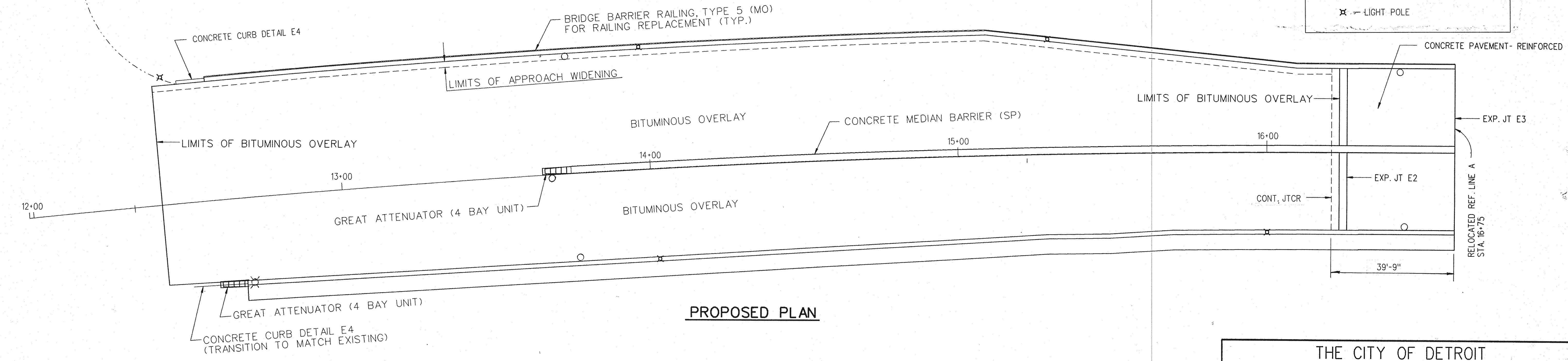
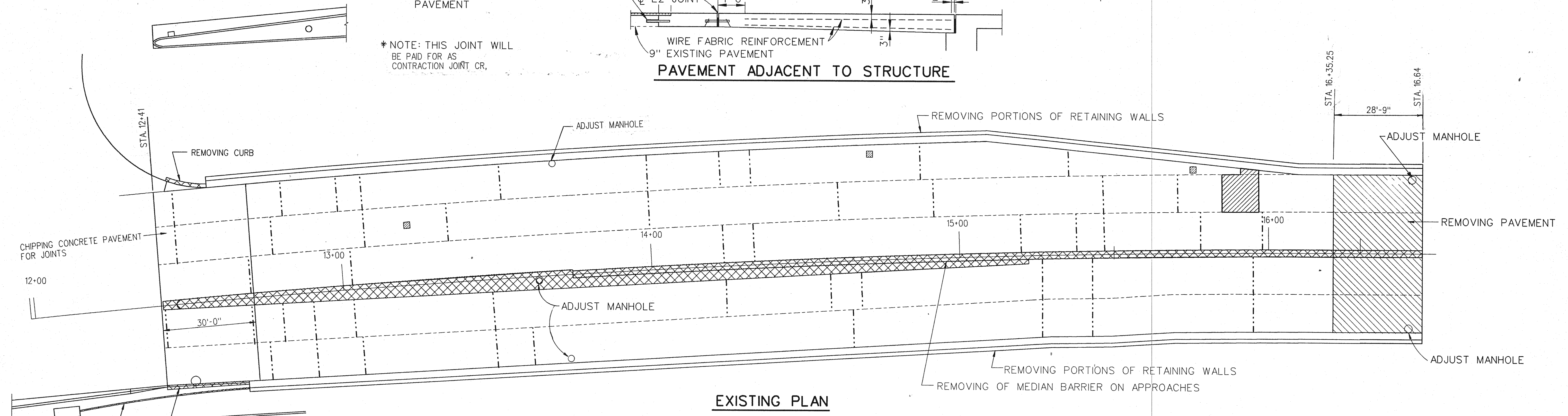
REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME WTA	DATE 6/93
CHECKED BY	NAME RAL	DATE 1/94
SHEET	15 OF 57	

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*TRANSVERSE JOINT CONNECTING NEW PAVEMENT TO EXISTING PAVEMENT
*NOTE: THIS JOINT WILL BE PAID FOR AS CONTRACTION JOINT CR.



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

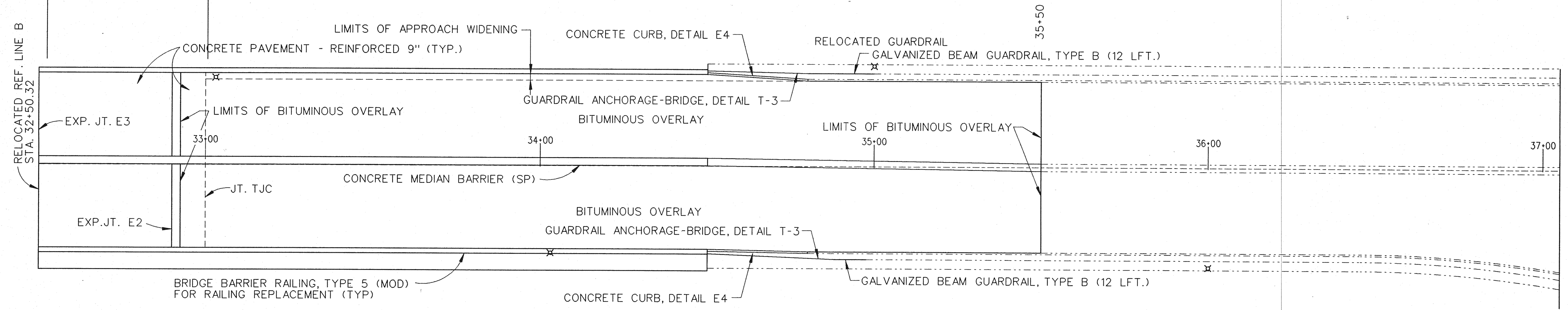
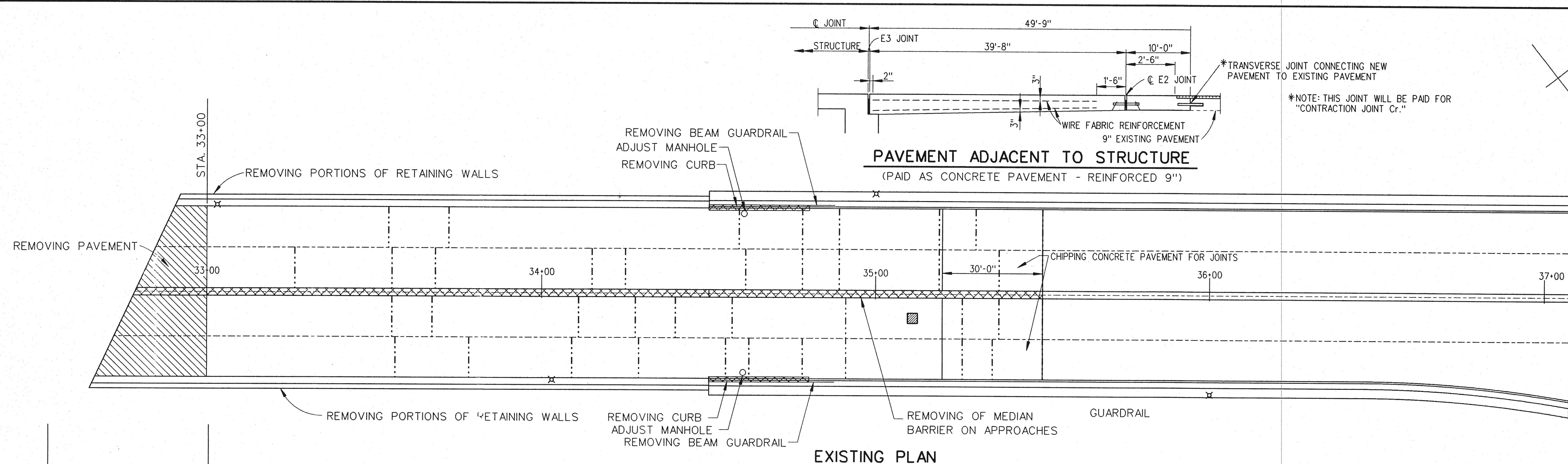
NOTE: WORK THIS SHEET WITH SHEETS 17 TO 21.

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

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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



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 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.

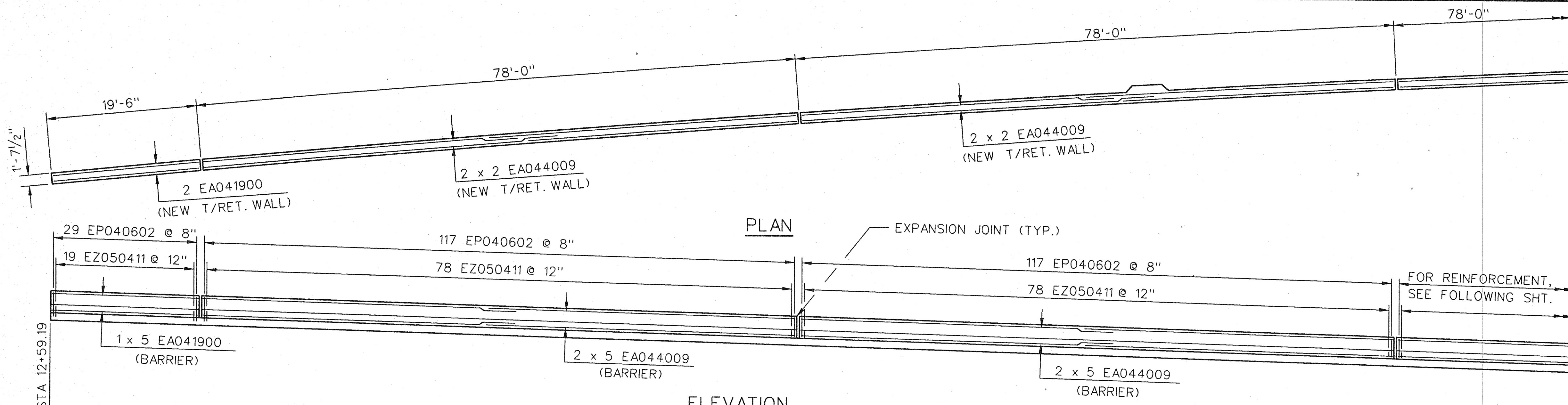
REVISIONS			
NO.	DESCRIPTION	DATE	BY

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 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 GENERAL PLAN NORTH APPROACH

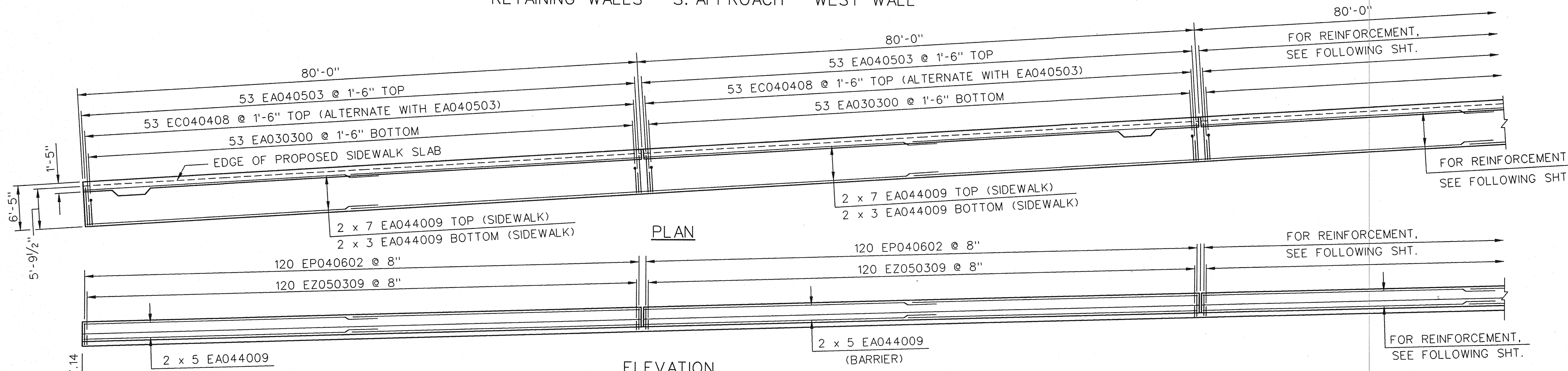
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DRAWN BY	NAME	WTA	DATE 11/93
CHECKED BY	NAME	RAW	DATE 1/94
SHEET		17 OF 57	

B01 of 82-22-48

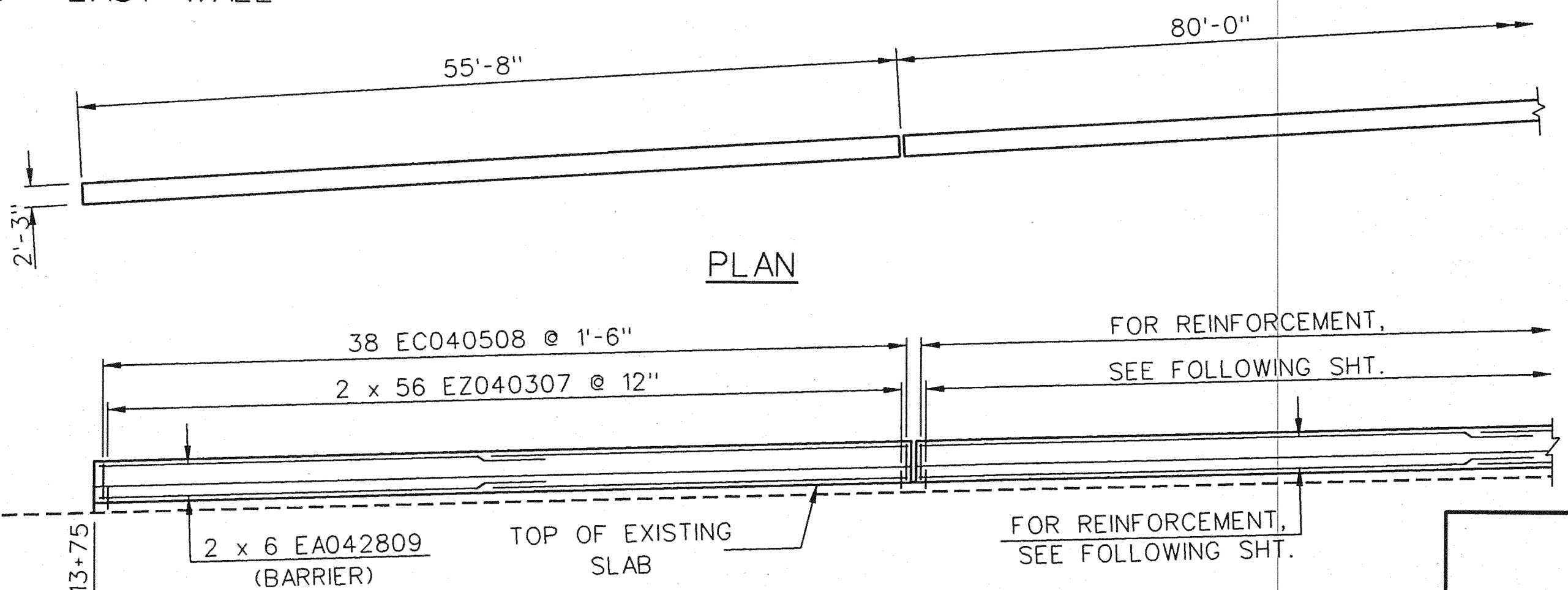
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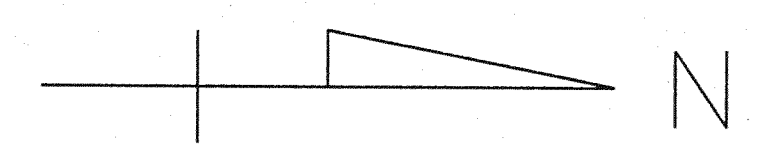
ELEVATION
RETAINING WALLS - S. APPROACH - WEST WALL



ELEVATION
RETAINING WALLS - S. APPROACH - EAST WALL



ELEVATION
RETAINING WALLS - S. APPROACH - MEDIAN WALL



NOTES:
48. WORK THIS SHEET WITH SHEETS 19, 21 AND 48.

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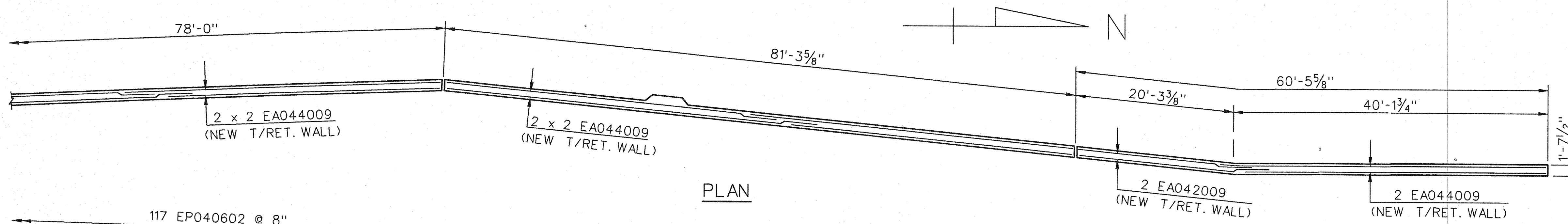
REVISIONS			
NO.	DESCRIPTION	DATE	BY

THE CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
RETAINING WALLS
STA. 12+59 TO 16+51

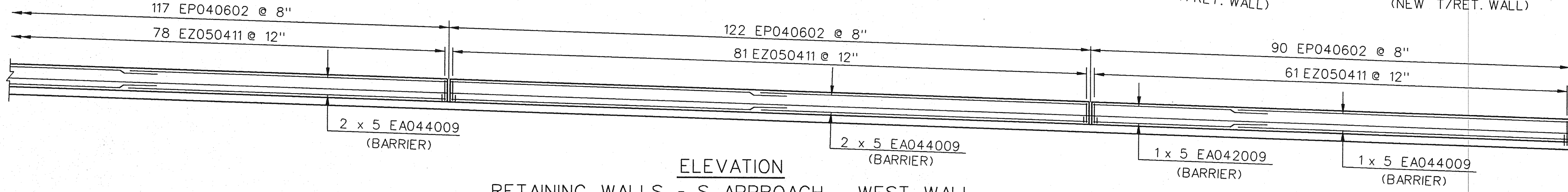
SQUAD BOSS	NAME	RAL	DATE	11/93
DRAWN BY	NAME	WTA	DATE	11/93
CHECKED BY	NAME	RAD	DATE	1/94
SHEET	18 OF 57			

B01 of 82-22-48

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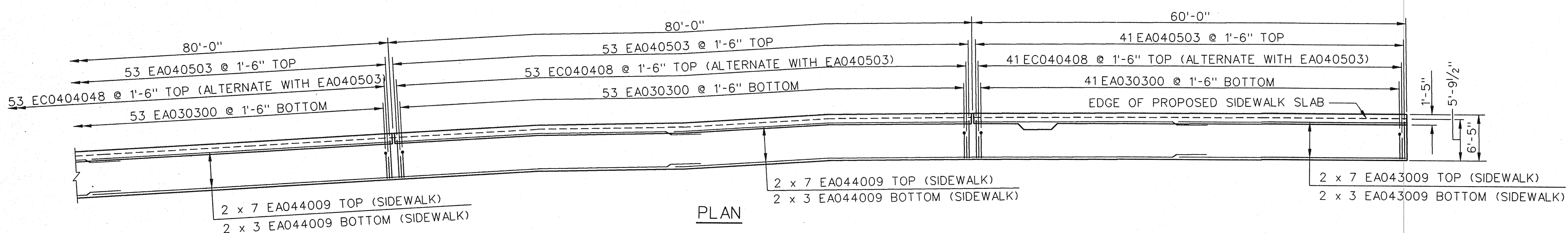


PLAN

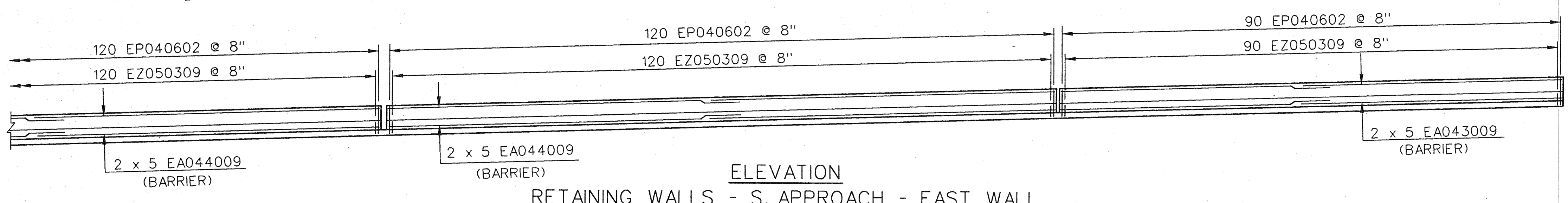


ELEVATION

RETAINING WALLS - S. APPROACH - WEST WALL

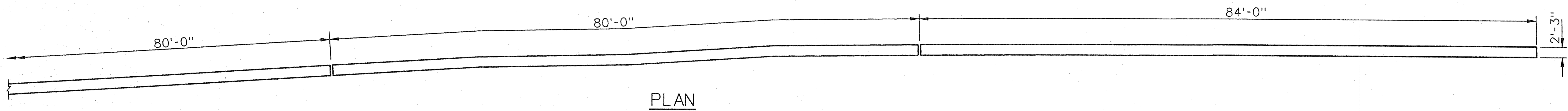


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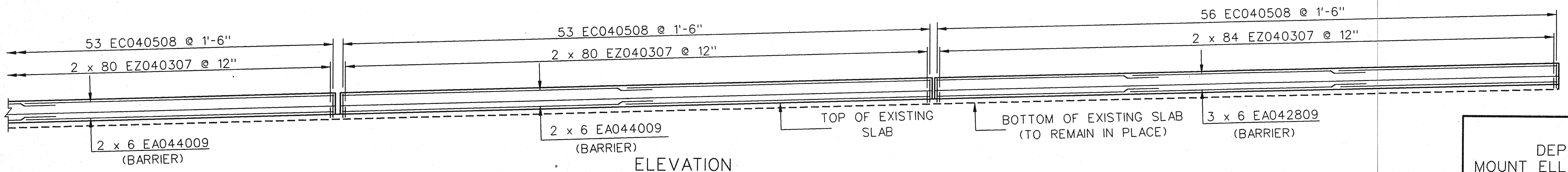


ELEVATION

RETAINING WALLS - S. APPROACH - EAST WALL



PLAN



ELEVATION

RETAINING WALLS - S. APPROACH - MEDIAN WALL

NOTES:
 WORK THIS SHEET WITH SHEETS 18, 21 AND 48.

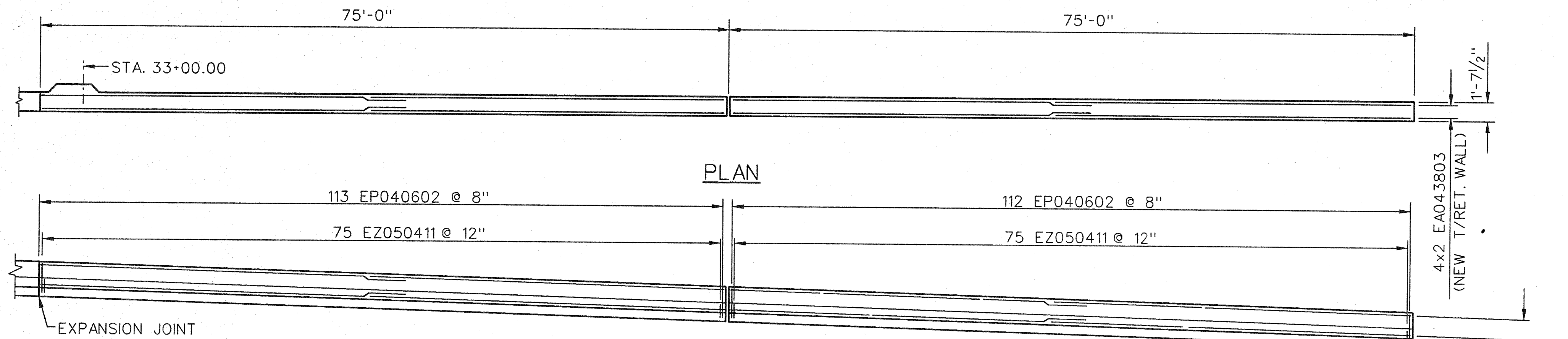
REVISIONS			
NO.	DESCRIPTION	DATE	BY

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 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
RETAINING WALLS
 STA. 12+59 TO 16+51

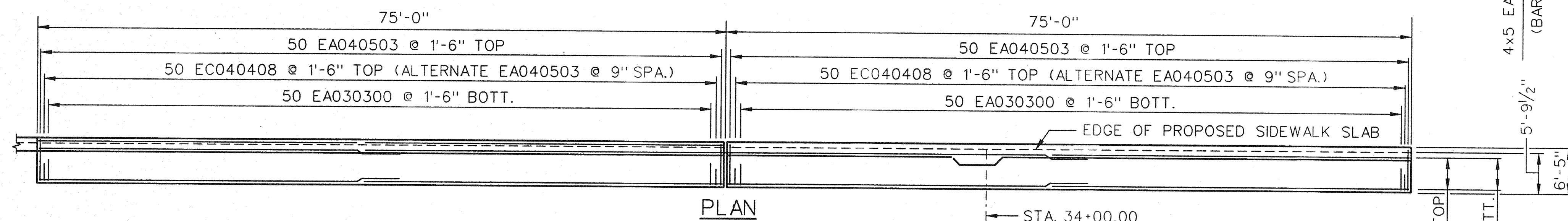
SQUAD BOSS	NAME	RAL	DATE
DRAWN BY	NAME	WTA	DATE 11/93
CHECKED BY	NAME	RAD	DATE 1/94
SHEET	19	OF	57

B01 of 82-22-48

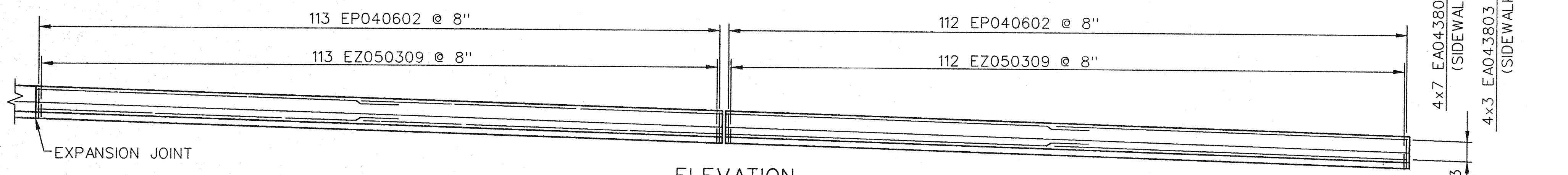
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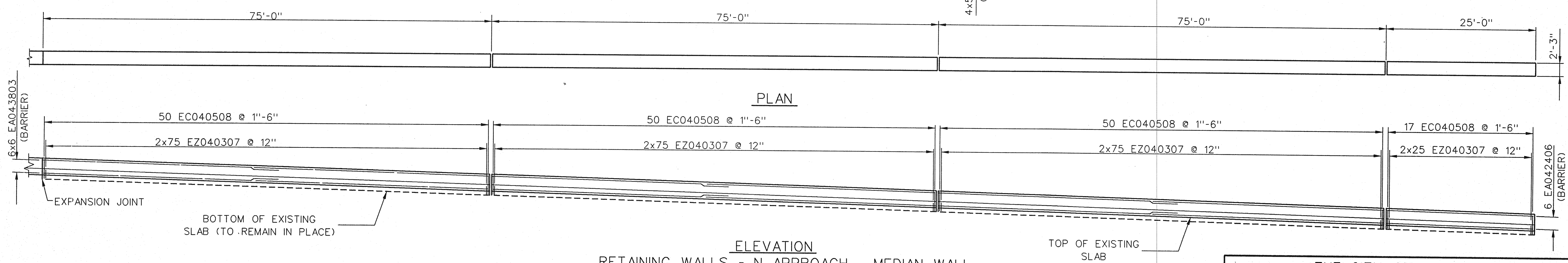
PLAN
 ELEVATION
 RETAINING WALLS - N. APPROACH - WEST WALL



PLAN
 ELEVATION
 RETAINING WALLS - N. APPROACH - EAST WALL



PLAN
 ELEVATION
 RETAINING WALLS - N. APPROACH - MEDIAN WALL



PLAN
 ELEVATION
 RETAINING WALLS - N. APPROACH - MEDIAN WALL

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NOTES:
 WORK THIS SHEET WITH SHEETS 21 AND 48.

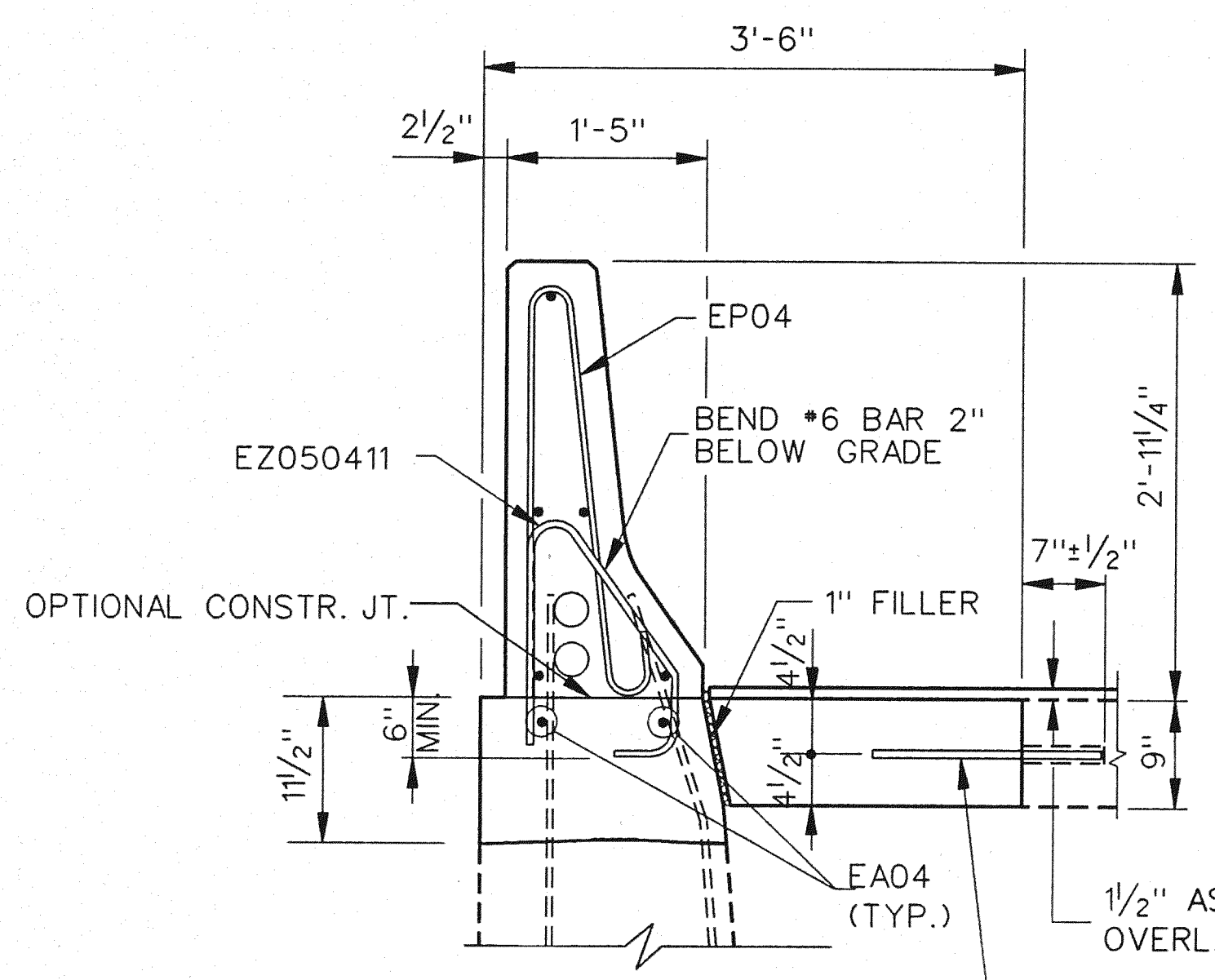
REVISIONS			
NO.	DESCRIPTION	DATE	BY

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

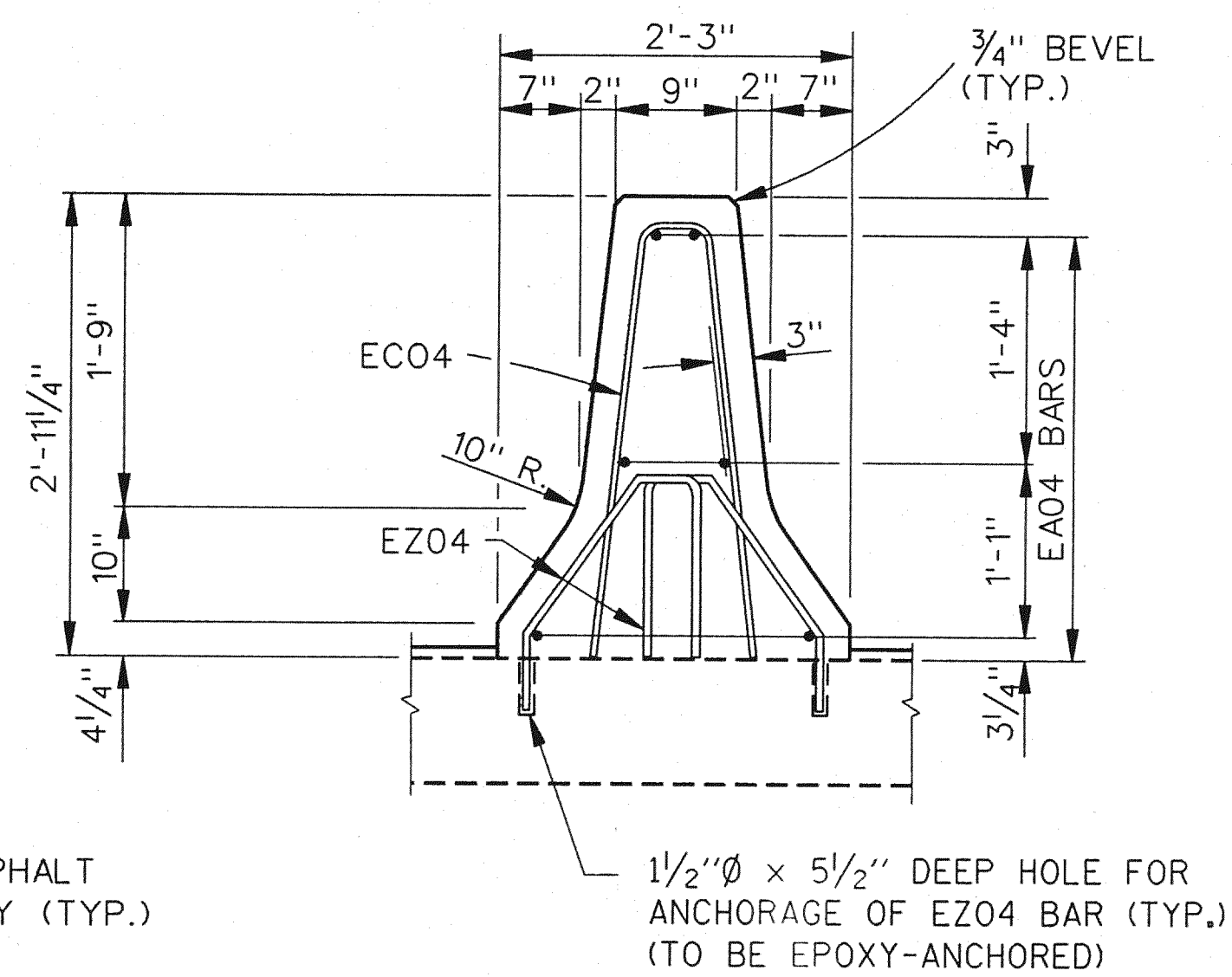
SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	20	OF 57

B01 of 82-22-48

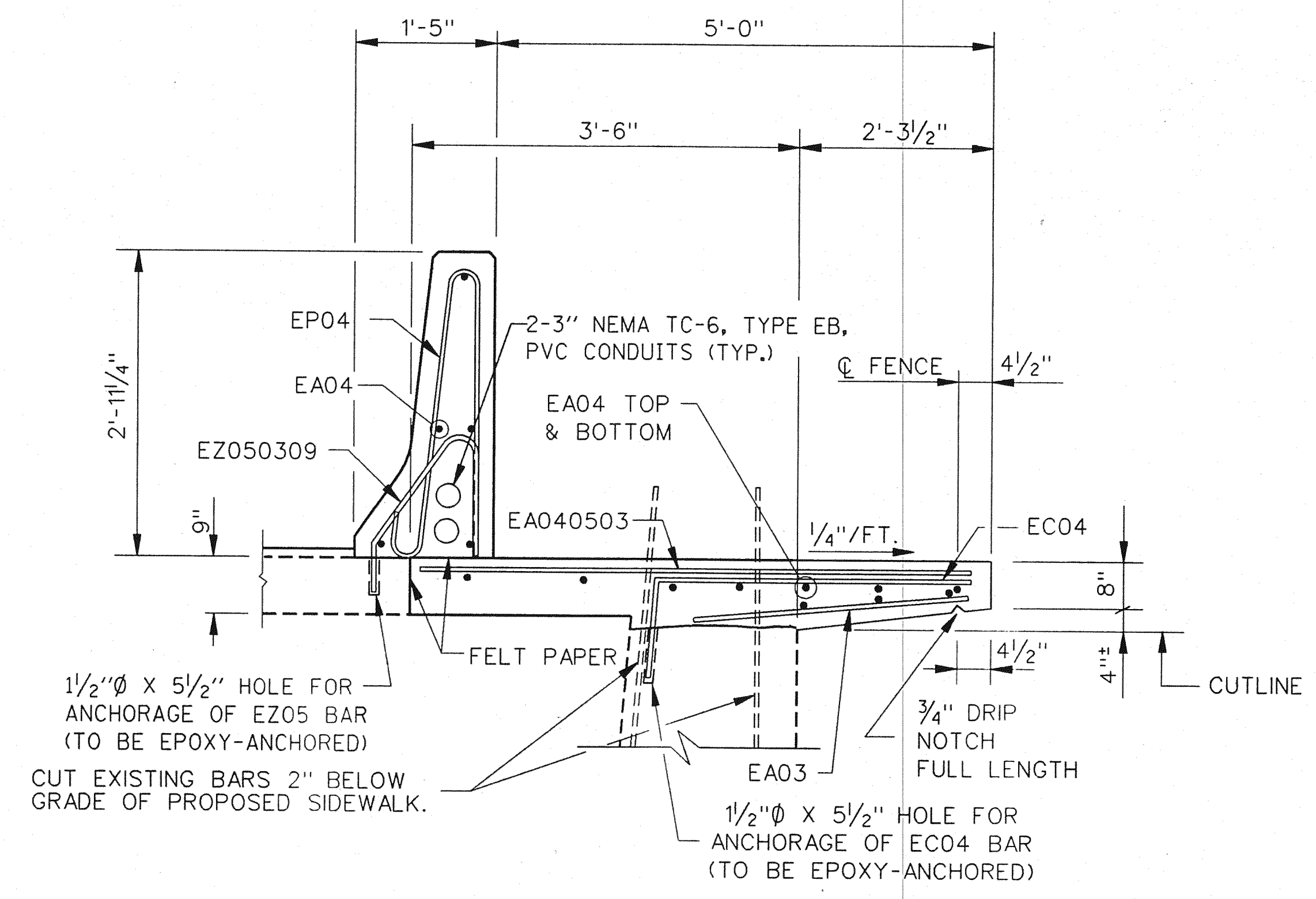
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TYPICAL WEST BARRIER



TYPICAL MEDIAN BARRIER SECTION ALONG APPROACHES



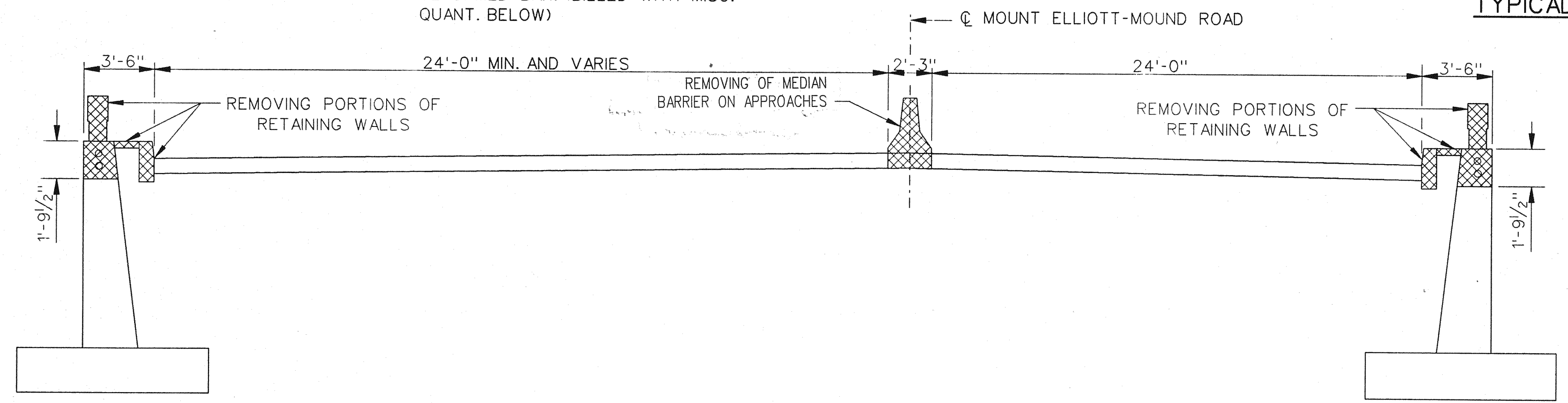
TYPICAL EAST BARRIER & SIDEWALK

NOTES:

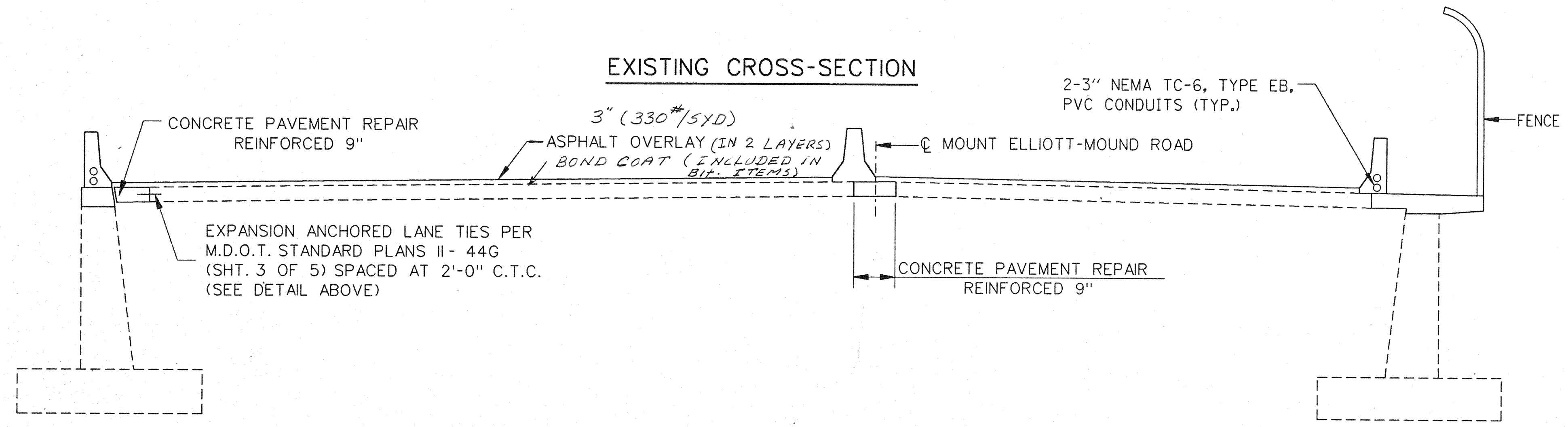
- POUR SLAB AGAINST EXISTING PAVEMENT
- CUT EXISTING VERTICAL BARS 2" BELOW FINAL SLAB ELEVATION
- 3/4" BEVEL ALL EXTERIOR EDGES
- ALL REINFORCING 2" CLEAR
- THE 3" ASPHALT OVERLAY SHALL NOT BE APPLIED TO THE SIDEWALK.
- EZ04 BARS IN MEDIAN AND EZ05 BARS IN EAST BARRIER TO BE EPOXY ANCHORED.
- THE TYPICAL 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. PAID AS NOTED ON DRAWING.

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

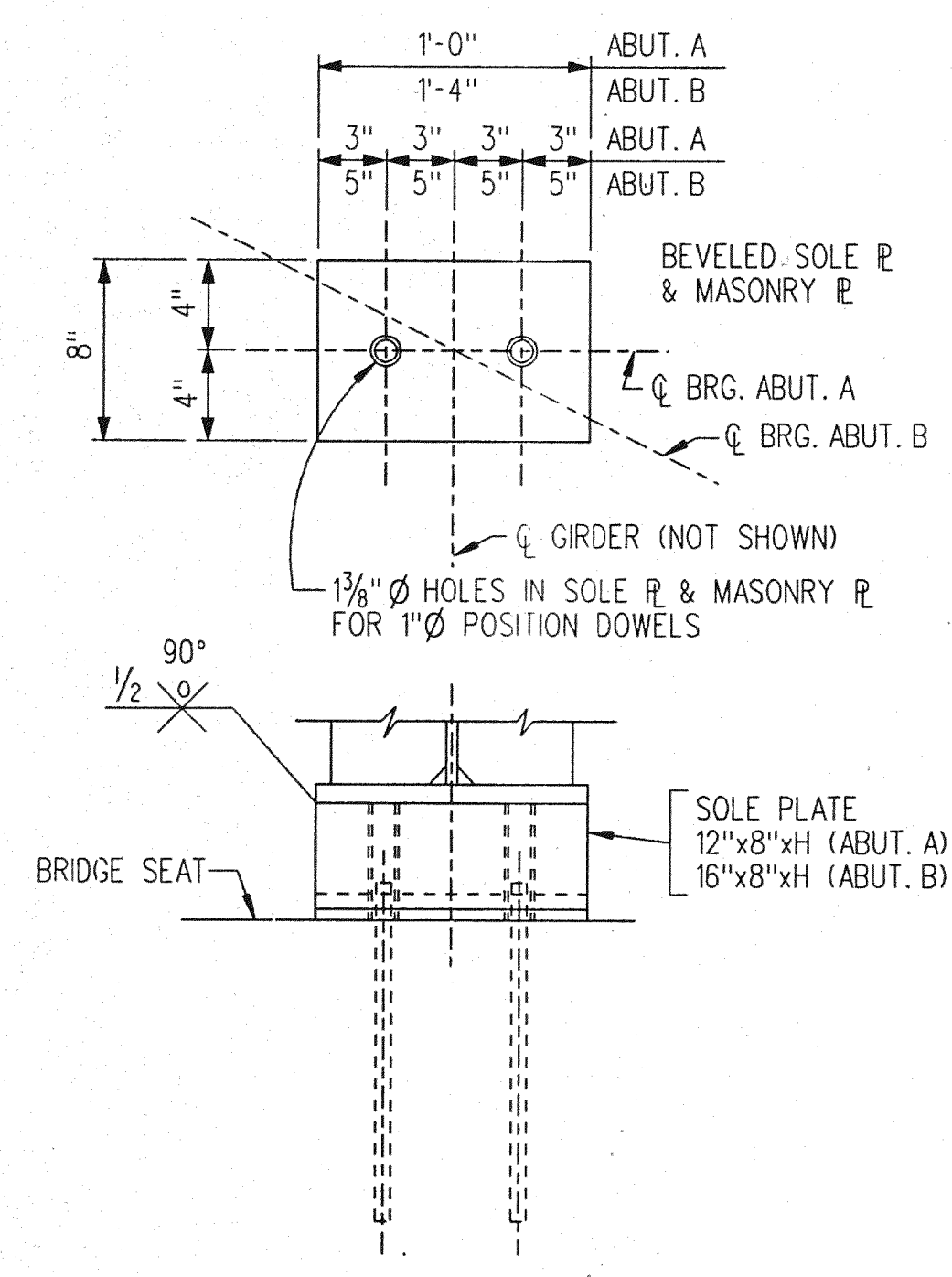
REVISIONS			
NO.	DESCRIPTION	DATE	BY

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		

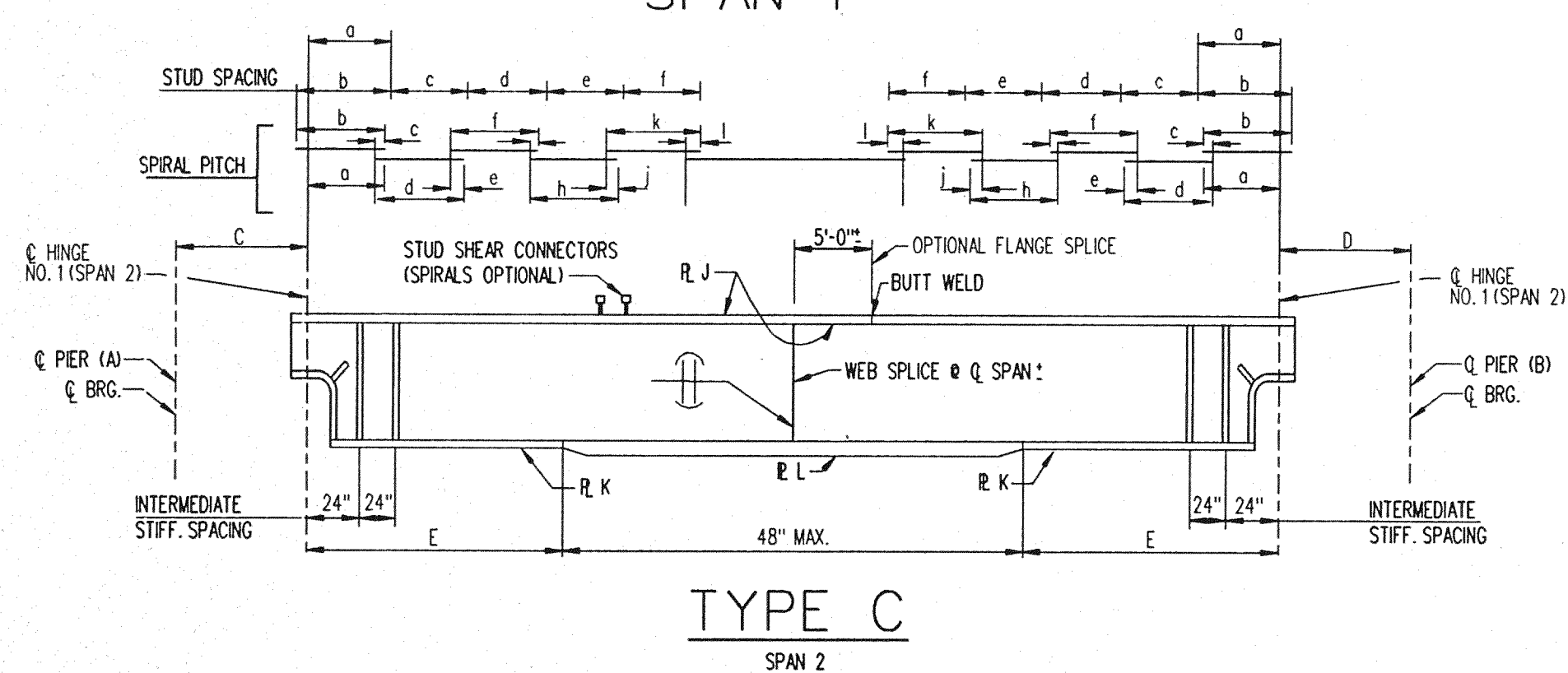
PLATE GIRDER DATA																									
SPAN	GIRDER NUMBER	GIRDER TYPE	(6" MEAN DIAM.) -3/4" SPIRAL SHEAR DEVELOPERS, SPACING AND PITCH. (NOTE: + INDICATES DOUBLE SPIRALS)																						
			a	b	c	d	e	f	g	h	j	k	l	m	n	p	q	r	s	t	u	v	w	x	y
1	1 THRU 10	J	6'-0"	18 @ 4" -6'-0"	2"	17 @ 5" -7'-1"	2 1/2"	18 @ 5 1/2" -8'-3"	2 3/4"	15 @ 7" -8'-9"	3 1/2"	14 @ 8 1/2" -9'-11"	4 1/4"	0	0	22 @ 10 1/2" -19'-3"	6'-0"	2"	4 @ 16" -5'-4"	---	---	---	---	---	---
2	1 THRU 10	C	6'-8"	20 @ 4" -6'-8"	2"	17 @ 5" -7'-1"	2 1/2"	18 @ 5 1/2" -8'-3"	2 3/4"	15 @ 7" -8'-9"	3 1/2"	12 @ 8 1/2" -8'-6"	4 1/4"	16 @ 10 1/2" -14'-0"	---	---	---	---	---	---	---	---	---	---	

PLATE GIRDER DATA																																		
SPAN	GIRDER NUMBER	GIRDER TYPE	C PIER (A) LOCATIONS	C PIER (B) LOCATIONS	GIRDER DIMENSIONS										FLANGE PLATE SIZE					WEB PLATE SIZE	BRG. STIFF. (X) SIZE	BRG. STIFF. (Y) SIZE	INTERMEDIATE STIFF. SIZE	HINGE NO.	4-3/4" Ø (6" LENGTH) STUD SHEAR CONNECTORS (SPACING)									
					C	D	E	F	G	H	J	R J	R K	R L	R M	R N	R P	R J	R K						R L	R M	R N	R P	a	b	c	d	e	f
1	1 THRU 10	J	REF. LINE A	C PIER 1	1'-3"	14'-0"	7'-0"	5"	---	---	---	12"x5/8"	12"x1/2"	12"x3/4"	---	---	---	48"x3/8"	2-5"x5/8"	2-5"x3/4"	2 - 4" x3/8"	1	11'-3"	15@9" =11'-3"	9@10" =9'-0"	9@13" =9'-0"	6@16" =8'-0"	0	15@19" =23'-9"	11'-3"	4@16" =5'-4"	---		
2	1 THRU 10	C	C PIER 1	C PIER 2	7'-0"	7'-0"	15'-0"	---	---	---	---	12"x5/8"	12"x3/4"	12"x13/8"	---	---	---	48"x3/8"	---	---	2 - 4" x3/8"	1 & 2	9'-0"	12@9" =9'-0"	10@10" =8'-4"	6@12" =6'-0"	6@14" =7'-0"	0	22@16" =29'-4"	---	---	---		

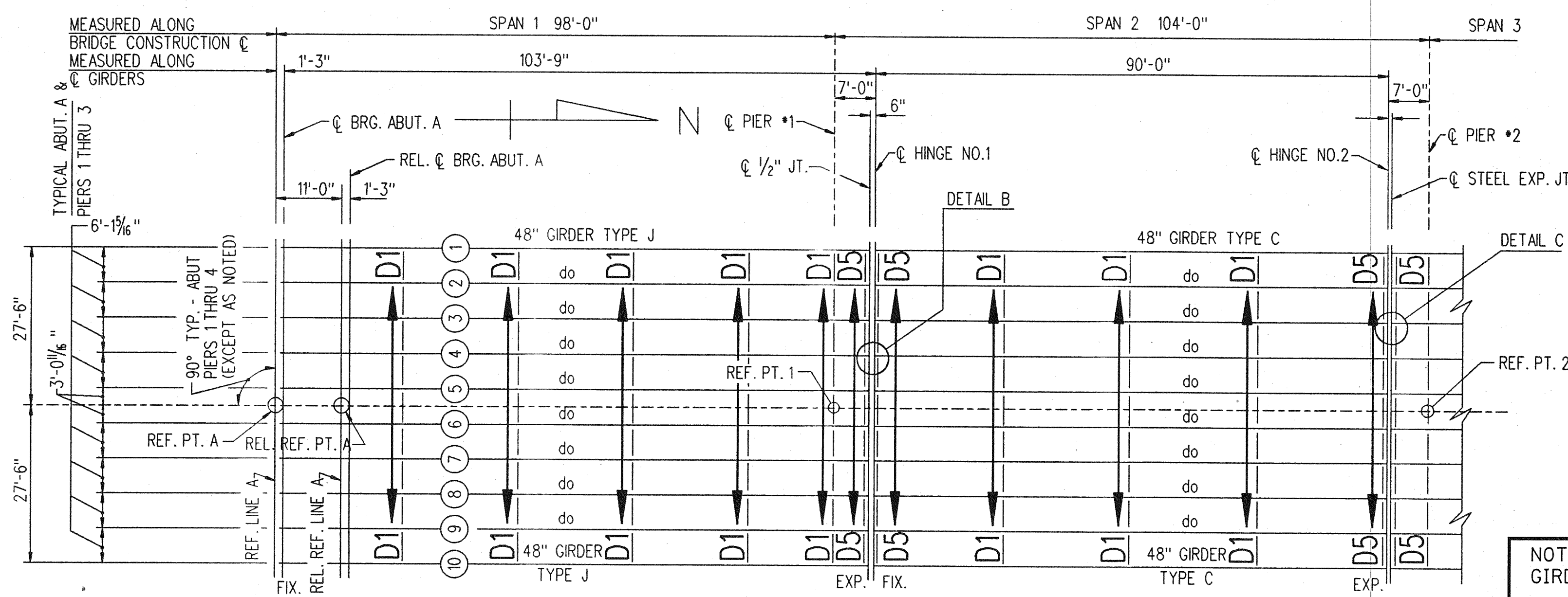
NOTE: DIMENSIONS ARE ALONG C GIRDERS



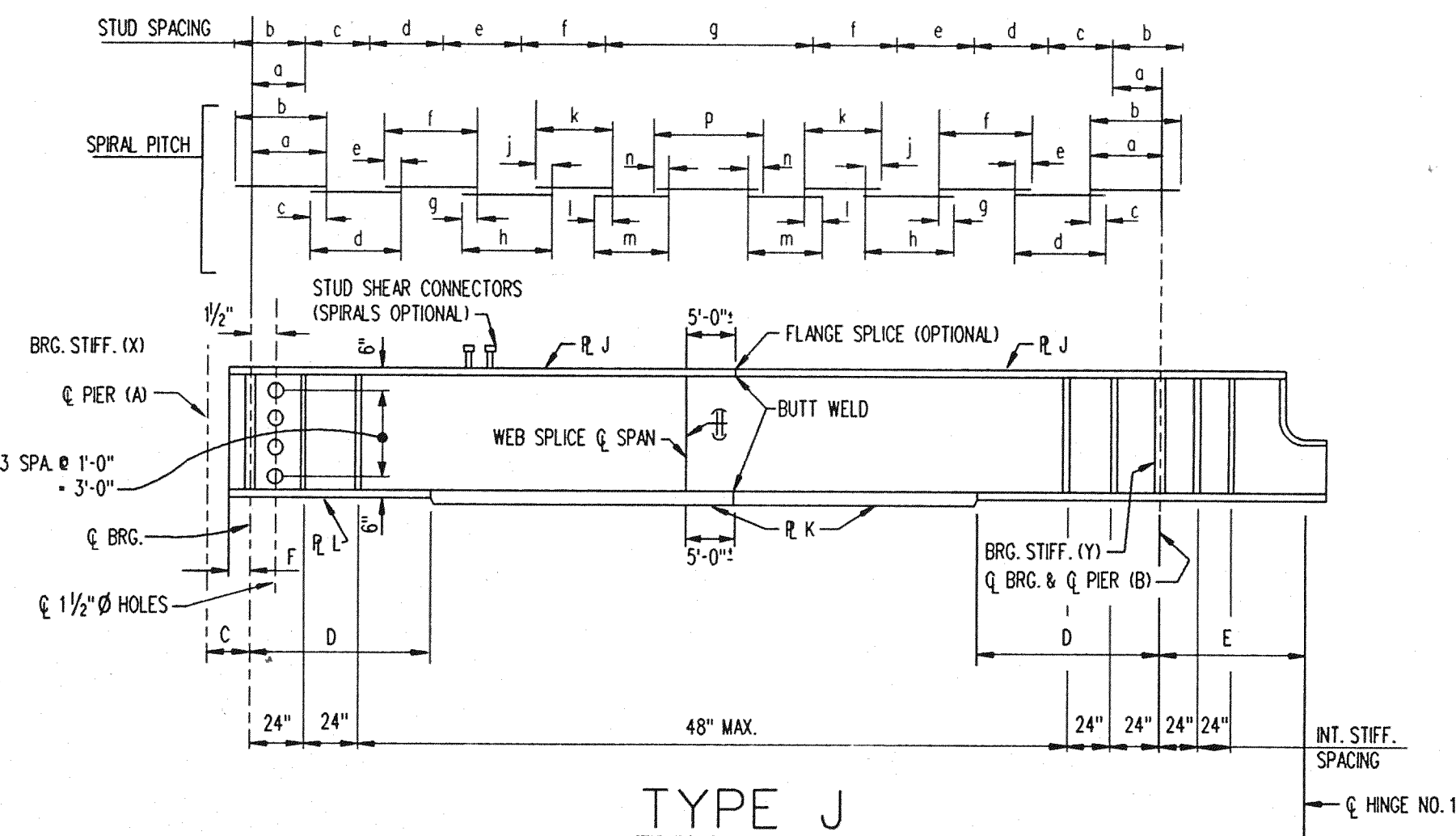
BEARINGS AT ABUTMENTS
SPAN 1



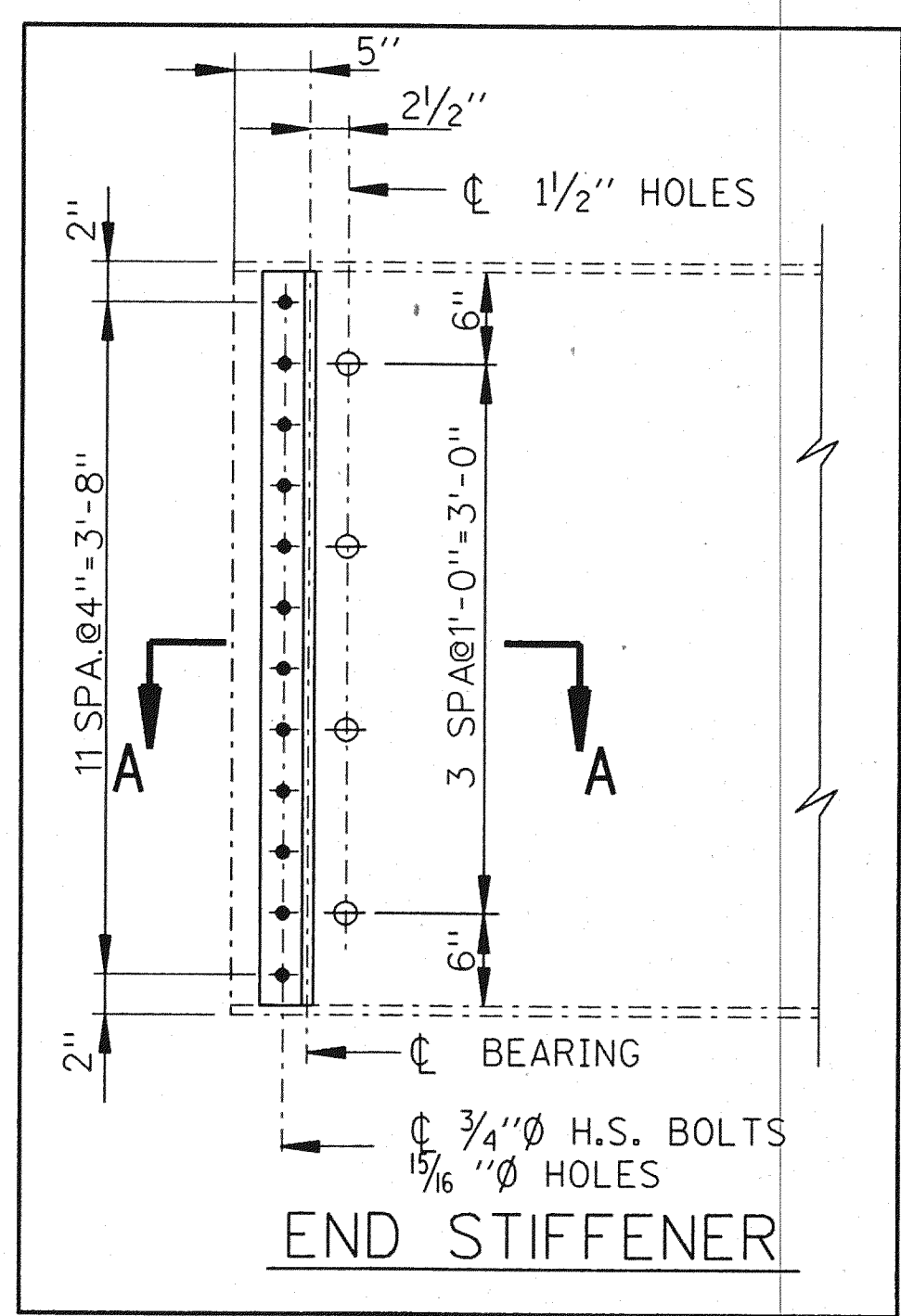
TYPE C
SPAN 2



PLAN - SPANS 1 & 2



TYPE J
SPAN 1



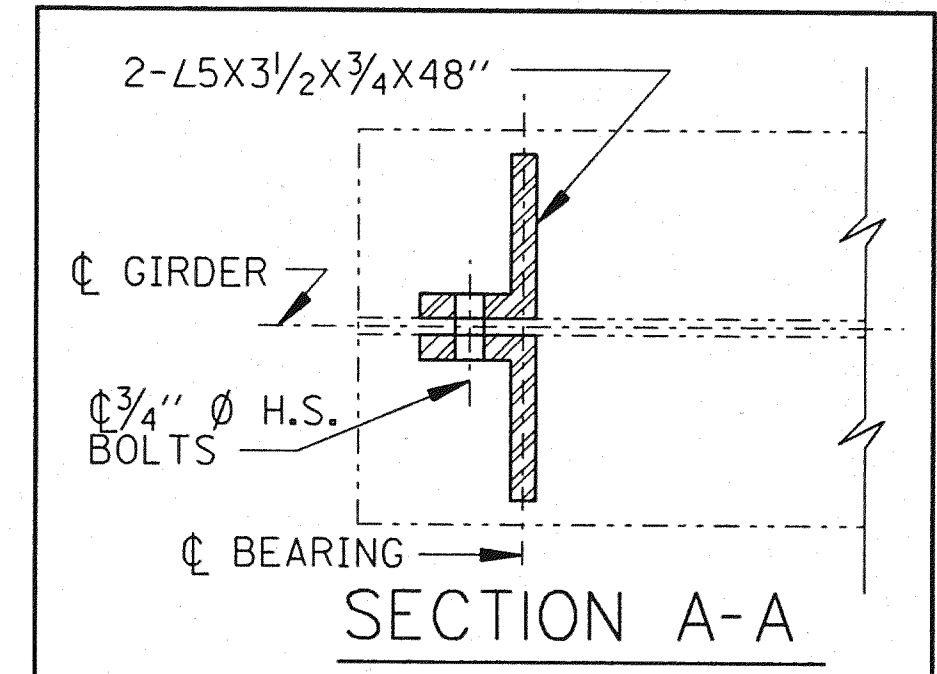
END STIFFENER

TABLE OF REQUIRED CAMBER AND D.L. DEFLECTIONS - INCHES

GIRDER	SPAN 1				SPAN 2			
	R.C.	L.C.	R.C.	L.C.	R.C.	L.C.	R.C.	L.C.
1	2 1/8	3	2	3/8	2	2 3/4	2	---
2	1 7/8	2 1/2	1 3/4	1/2	1 5/8	2 3/8	1 5/8	---
3	1 1/8	2 1/2	1 3/4	1/2	1 5/8	2 3/8	1 5/8	---
4	1 1/8	2 1/2	1 3/4	1/2	1 5/8	2 3/8	1 5/8	---
5	2	2 3/4	1 3/4	1/2	1 5/8	2 3/8	1 5/8	---
6	2	2 3/4	1 3/4	1/2	1 5/8	2 3/8	1 5/8	---
7	1 7/8	2 1/2	1 3/4	1/2	1 5/8	2 3/8	1 5/8	---
8	1 7/8	2 1/2	1 3/4	1/2	1 5/8	2 3/8	1 5/8	---
9	1 7/8	2 1/2	1 3/4	1/2	1 5/8	2 3/8	1 5/8	---
10	2 1/8	3	2	3/8	2	2 3/4	2	---
11	---	---	---	---	---	---	---	---

NOTE:
R.C. DENOTES RIGHT CANTILEVER
L.C. DENOTES LEFT CANTILEVER
NO CAMBER REQUIRED FOR FLOORBEAM

NOTES:
GIRDER 1 THRU 10 OF SPAN 1 TO BE SHORTENED BY 11'-0\"/>
GIRDERS TO BE CUT IN FIELD AND NEW HOLES TO BE CUT THROUGH WEB. PAID UNDER "REMOVAL OF PORTIONS OF STRUCTURES\"/>
NEW BEARING STIFFENERS 2- $L5 \times 3 \frac{1}{2} \times 3 \frac{3}{4} \times 48$ " TO BE BOLTED AT NEW BEARING LOCATION.
STRUCTURAL STEEL WT.=1,700 LBS.



SECTION A-A

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

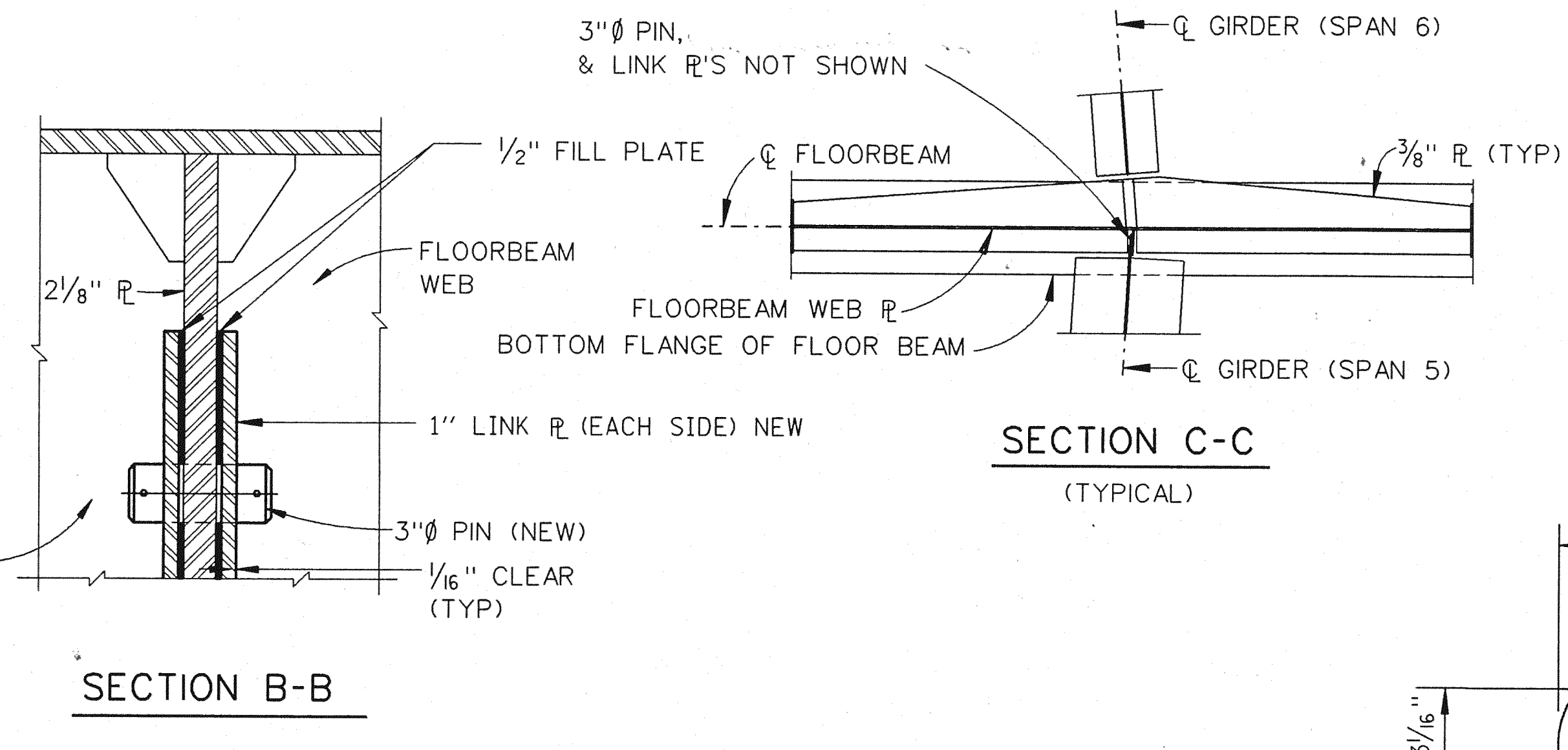
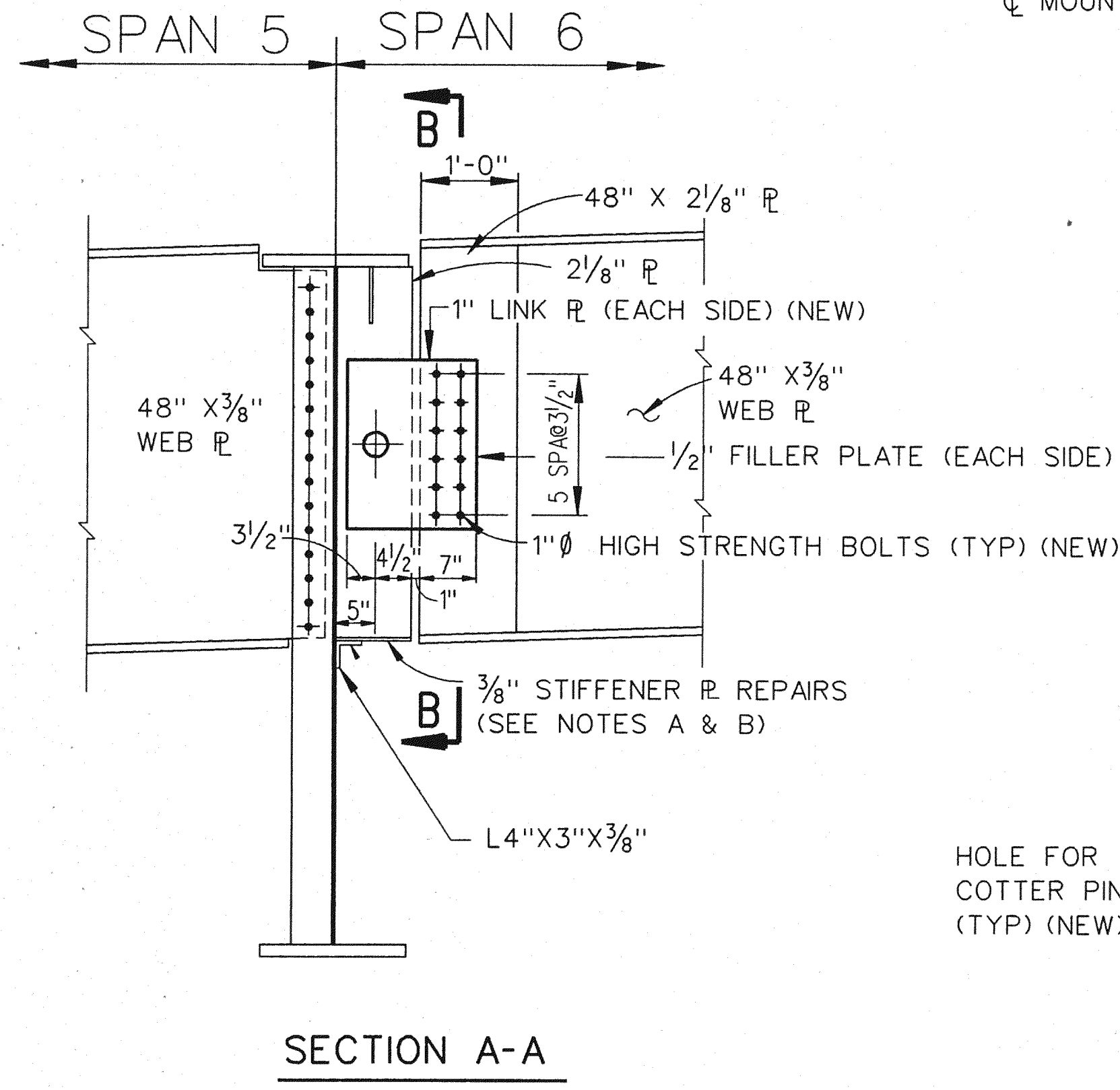
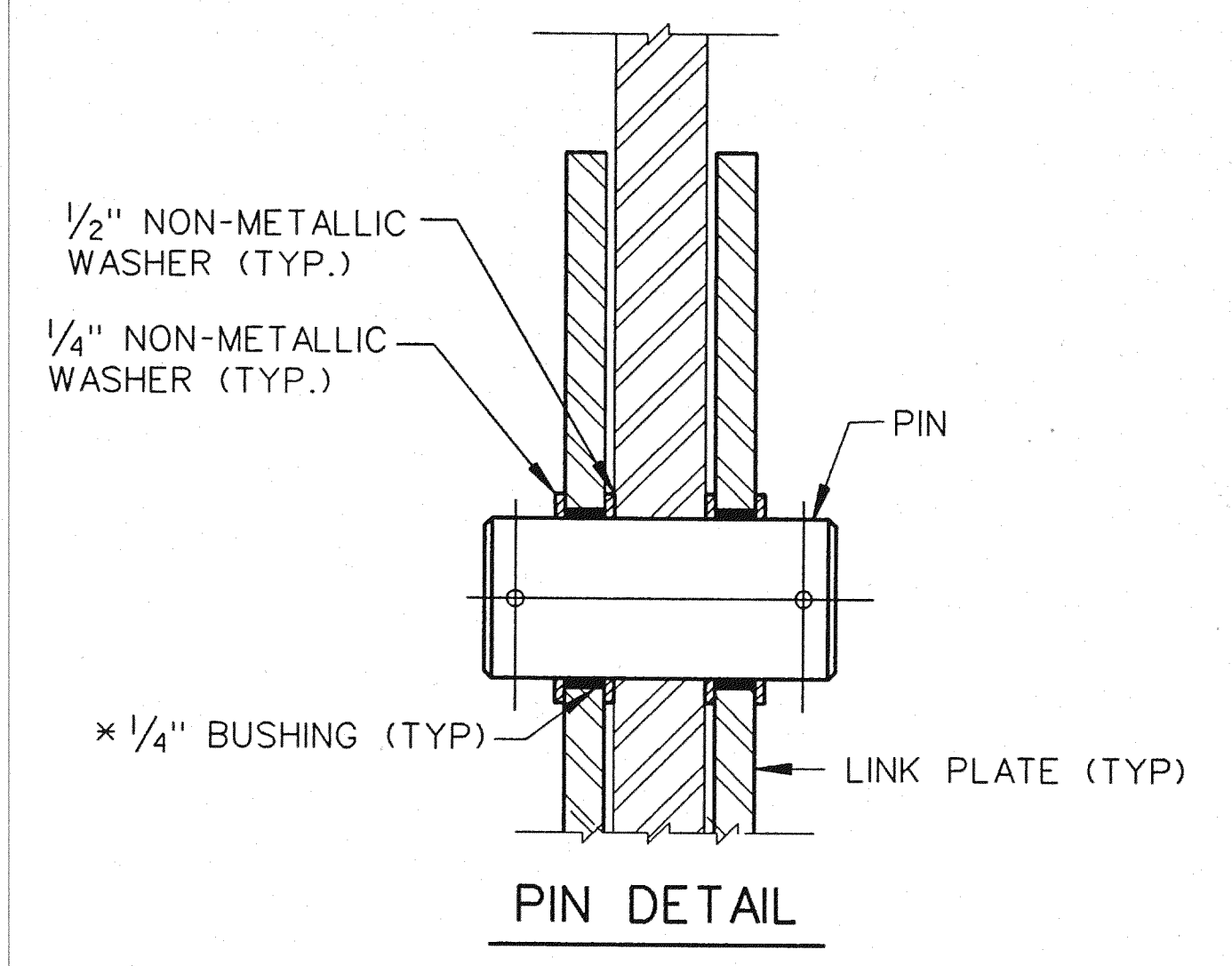
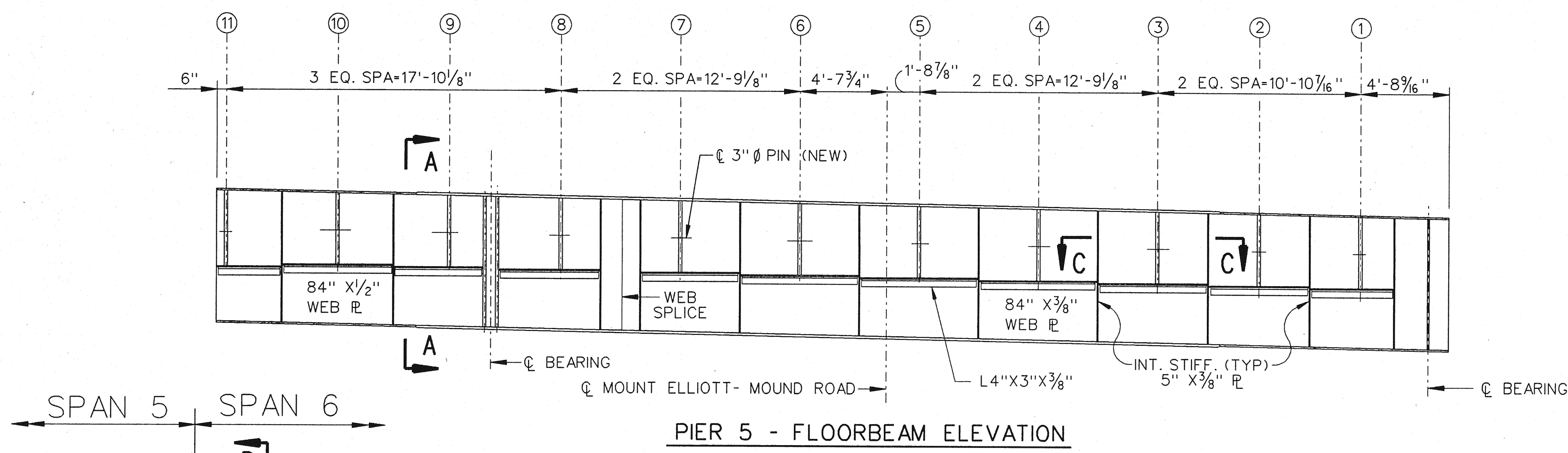
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18431 JAMES COUZENS DETROIT, MI 48235

NO.	DESCRIPTION	DATE	BY

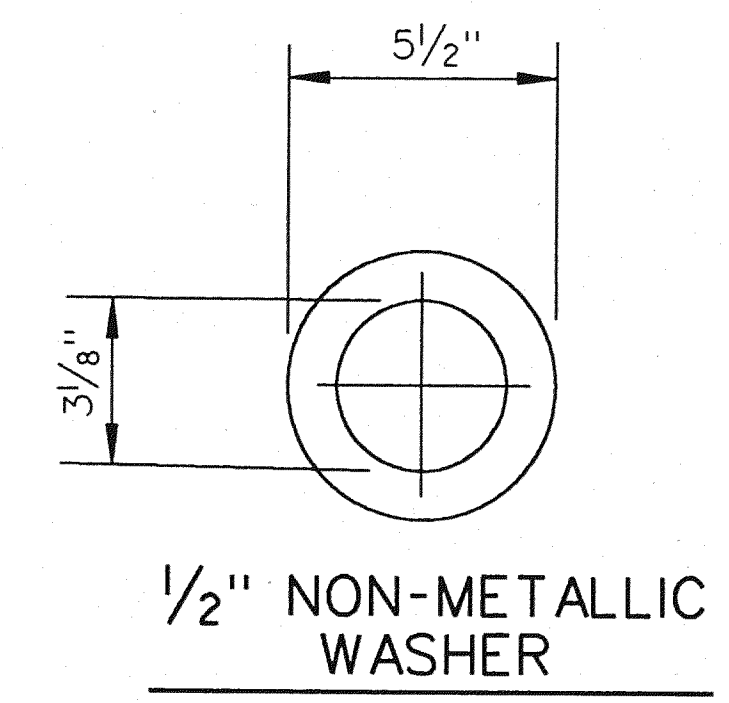
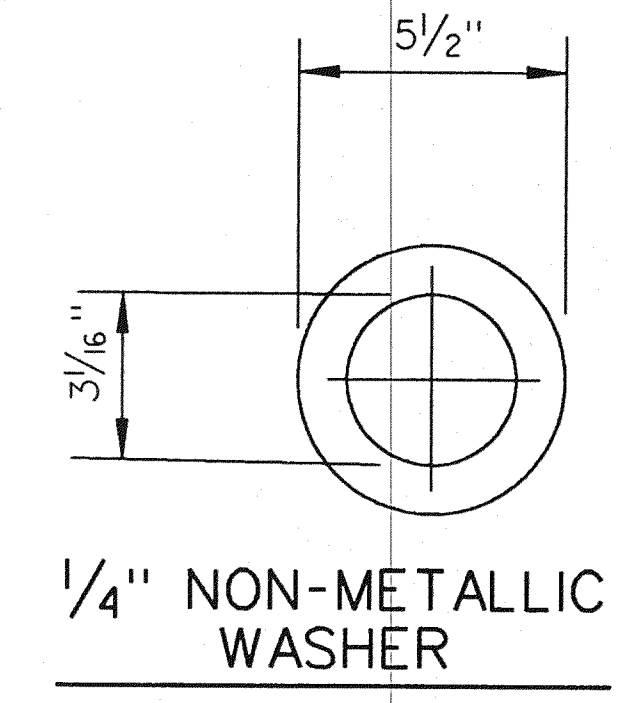
SQUAD BOSS	NAME	R.A.L.	DATE

CHECKED BY: NAME R.A.W. DATE 1/94
SHEET 22 OF 57

B01 of 82-22-48



MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
HANGER ASSEMBLY REMOVAL AND ERECTION	EACH	11
STRUCTURAL STEEL, FURNISHING AND FABRICATING (PIN & HANGER)	LBS	2300
BUSHING	EACH	22
FIELD MEASUREMENT OF HANGER ASSEMBLY	EACH	11
TEMPORARY SUPPORT, SUSPENSION TYPE	EACH	11
STRUCTURAL STEEL FABRICATING AND ERECTION (PLATES)	LBS	1200



NOTES:
 A. CUT TO FIT L4"x3"x3/8" AND BOLT ON THE NORTH SIDE OF PIER 5 FLOOR BEAM BENEATH THE EXISTING STIFFENER. USE 3/4" Ø HIGH STRENGTH BOLTS. DRILL THROUGH WEB.
 B. LENGTH TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTES
 ALL STRUCTURAL STEEL SHALL BE FIELD PAINTED. THE AREA BEHIND AND AROUND THE HANGER SHALL BE PAINTED PRIOR TO INSTALLING THE NEW LINK PLATES AND PINS. PROPOSED LINK PLATES SHALL BE SHOP PAINTED. CLEANING, FIELD PAINTING, AND SHOP PAINTING SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS.
 SEE SPECIAL PROVISIONS FOR PIN AND LINK PLATE MATERIAL, TEMPORARY SUPPORTS, AND REMOVAL AND ERECTION OF HANGER ASSEMBLY.
 THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS OF THE EXISTING HANGER ASSEMBLIES INDICATED ON THE PLANS PRIOR TO THE PREPARATION OF LINK PLATE AND PIN SHOP DRAWINGS. SEE SPECIAL PROVISION FOR PINS AND LINK PLATES.

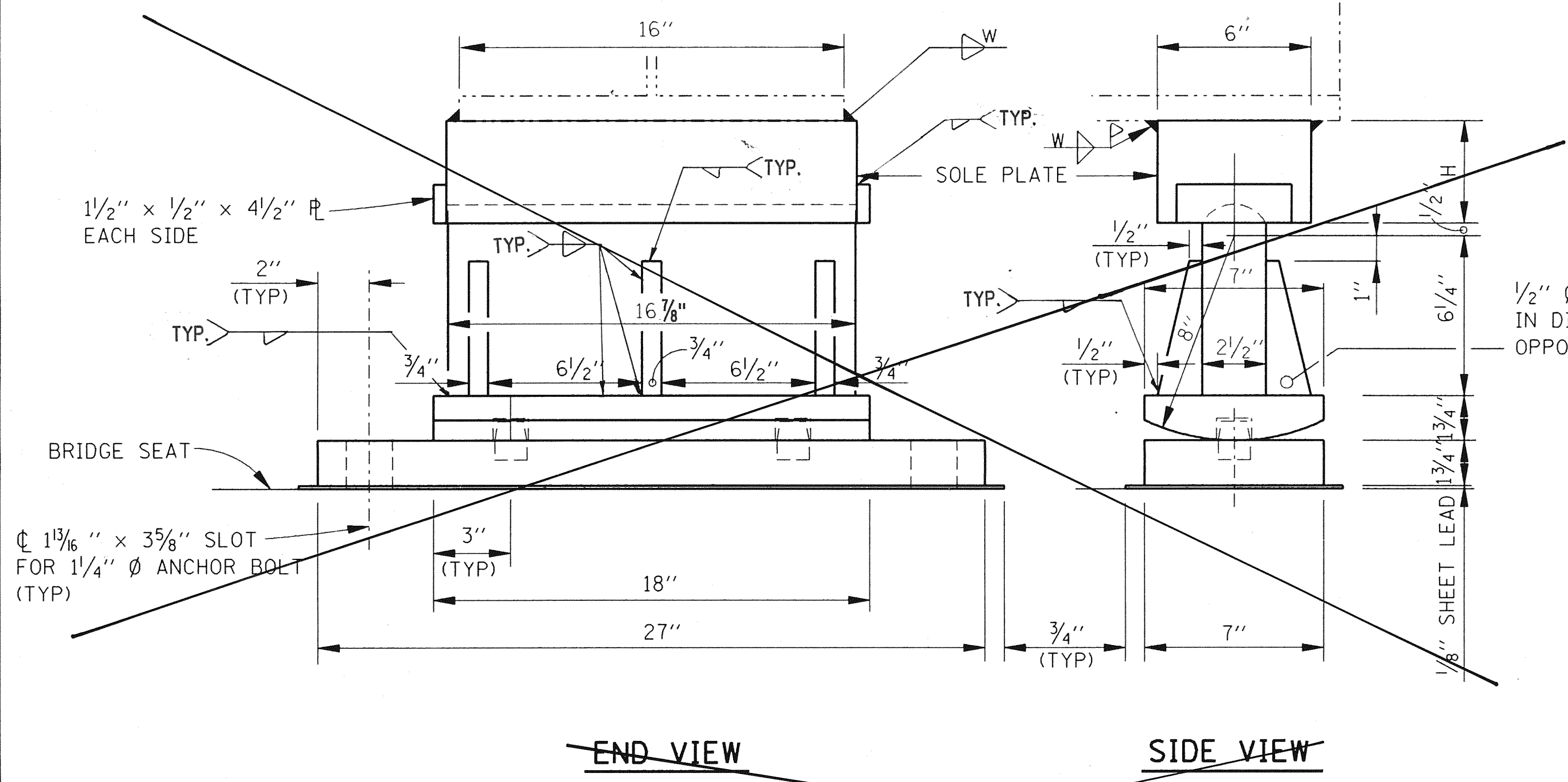
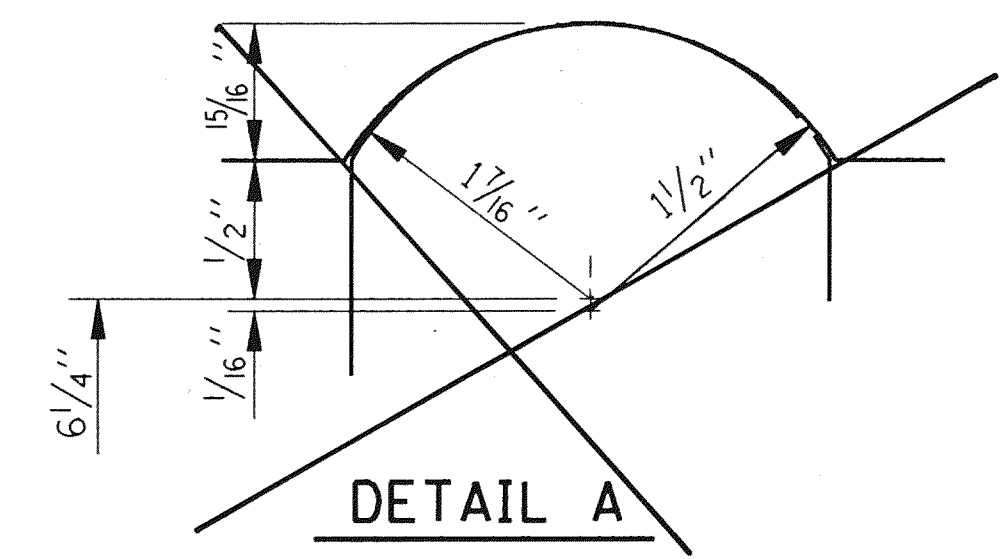
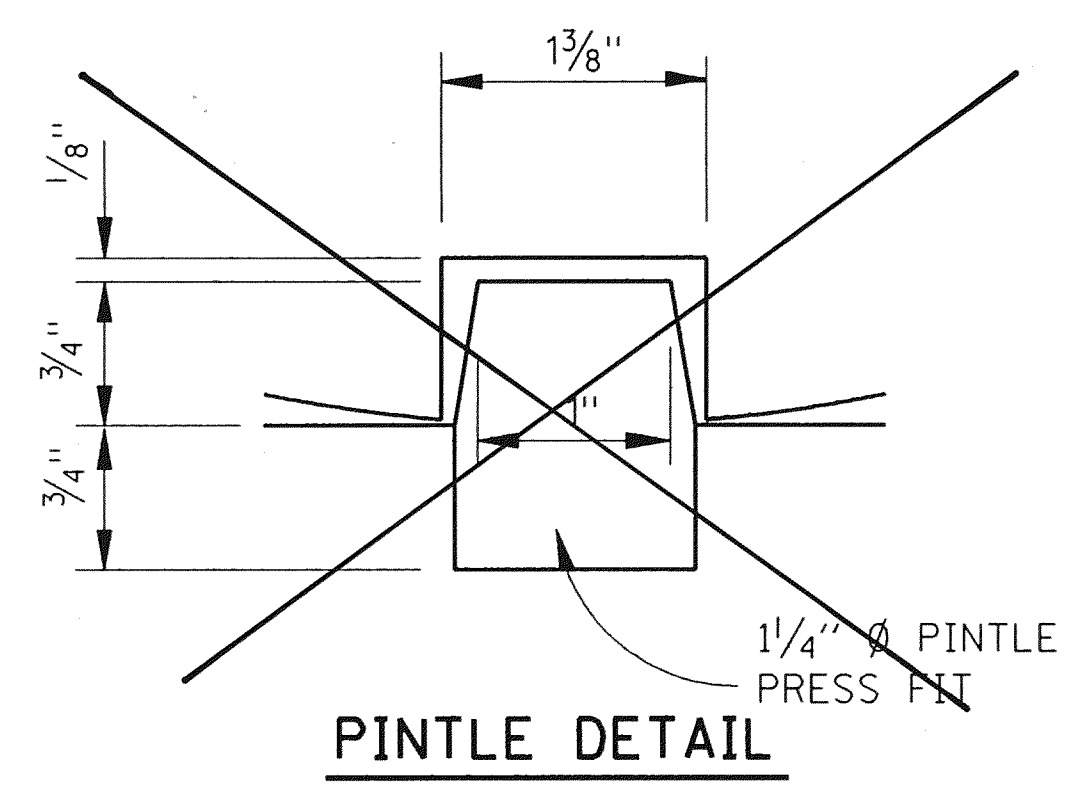
WELDING ON EXISTING GIRDERS WILL NOT BE PERMITTED (EXCEPT AS NOTED).

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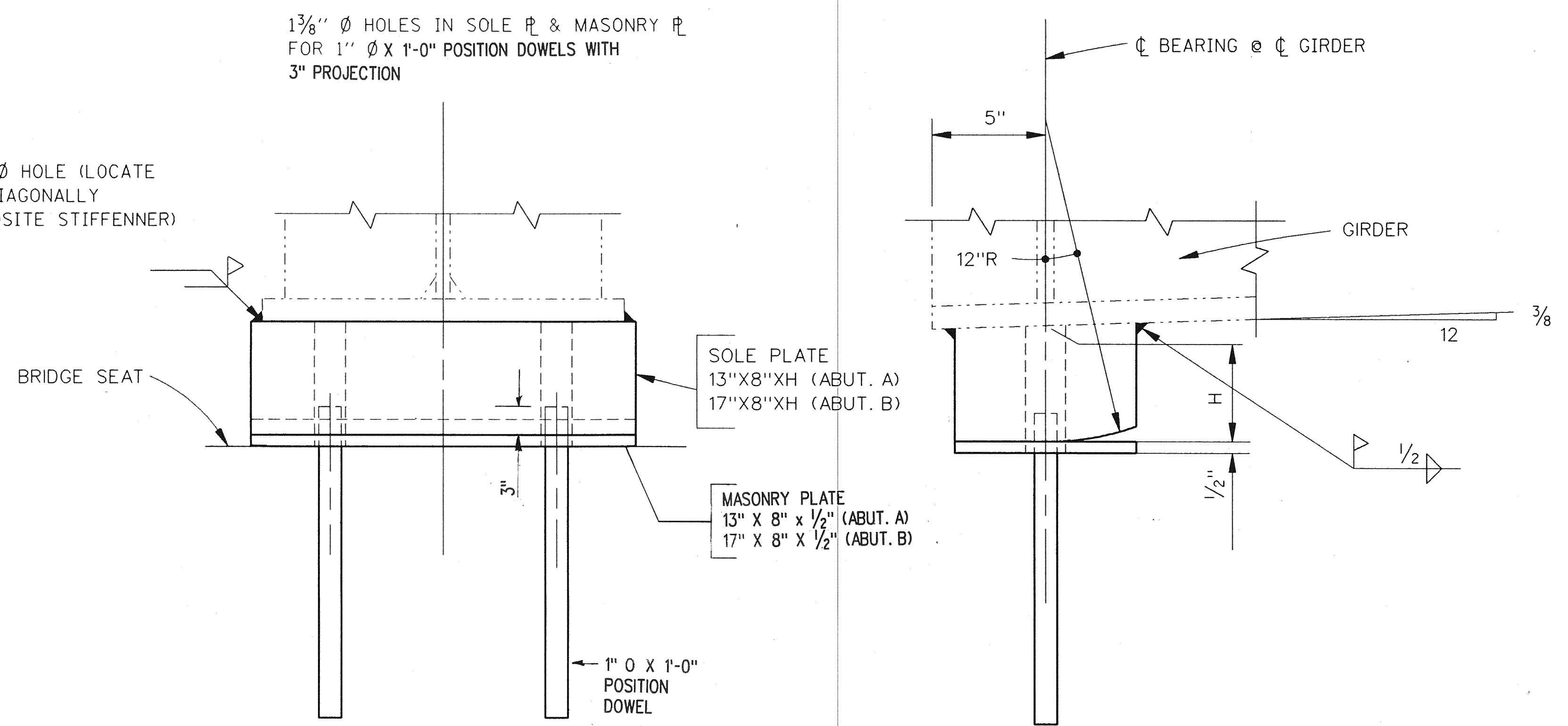
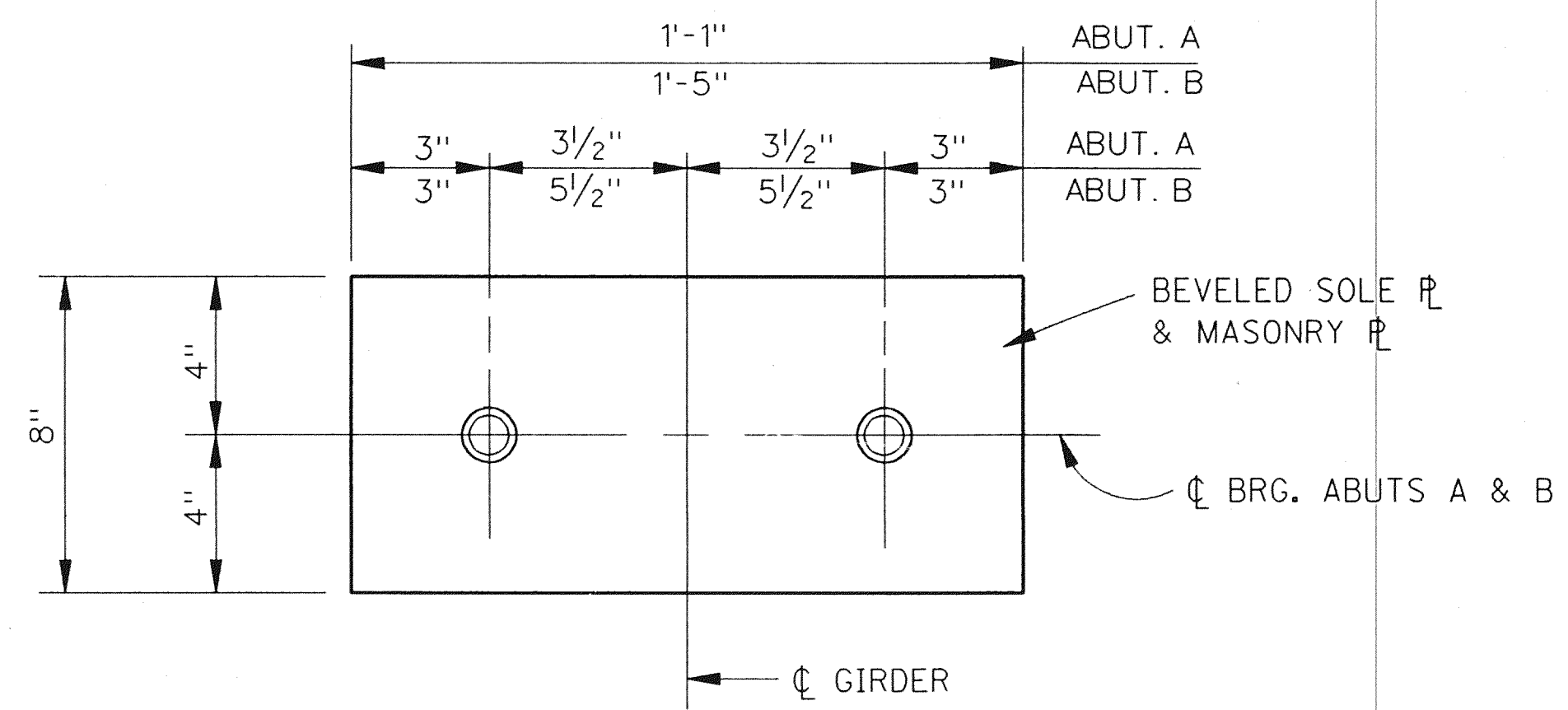
REVISIONS			
NO.	DESCRIPTION	DATE	BY

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

SOUD BOSS	NAME	RAJ	DATE	1/94
DRAWN BY	NAME	RAJ	DATE	1/94
CHECKED BY	NAME	RAW	DATE	1/94
SHEET		24	OF 57	



NOTE: ANCHOR BOLTS SHALL BE FURNISHED WITH 1/4" x 3" x 6 1/2" PL WASHERS.



SOLE PLATE THICKNESS "H"			
GIRDER	ABUT A	ABUT B	PIER 15
1	2"	2 1/2"	2 1/4"
2	2"	2 1/2"	3 1/2"
3	2"	2 1/2"	5"
4	2"	2 1/2"	2 1/4"
5	2 3/4"	3 1/4"	3 3/8"
6	2 3/4"	3 1/4"	5 7/8"
7	2"	2 1/2"	3 3/8"
8	2"	2 1/2"	2 1/4"
9	2"	2 1/2"	2 1/4"
10	2"	2 1/2"	2 1/4"

QUANTITY		
ITEM	UNIT	AMOUNT
STRUCTURAL STEEL FABRICATION AND ERECTION (PLATES)	LBS	2,000
ROCKER ALIGNMENT	EACH	10

NOTE: ALIGN ROCKER BEARING AT PIER 15-SPAN 16 AS PER SPECIAL PROVISION.

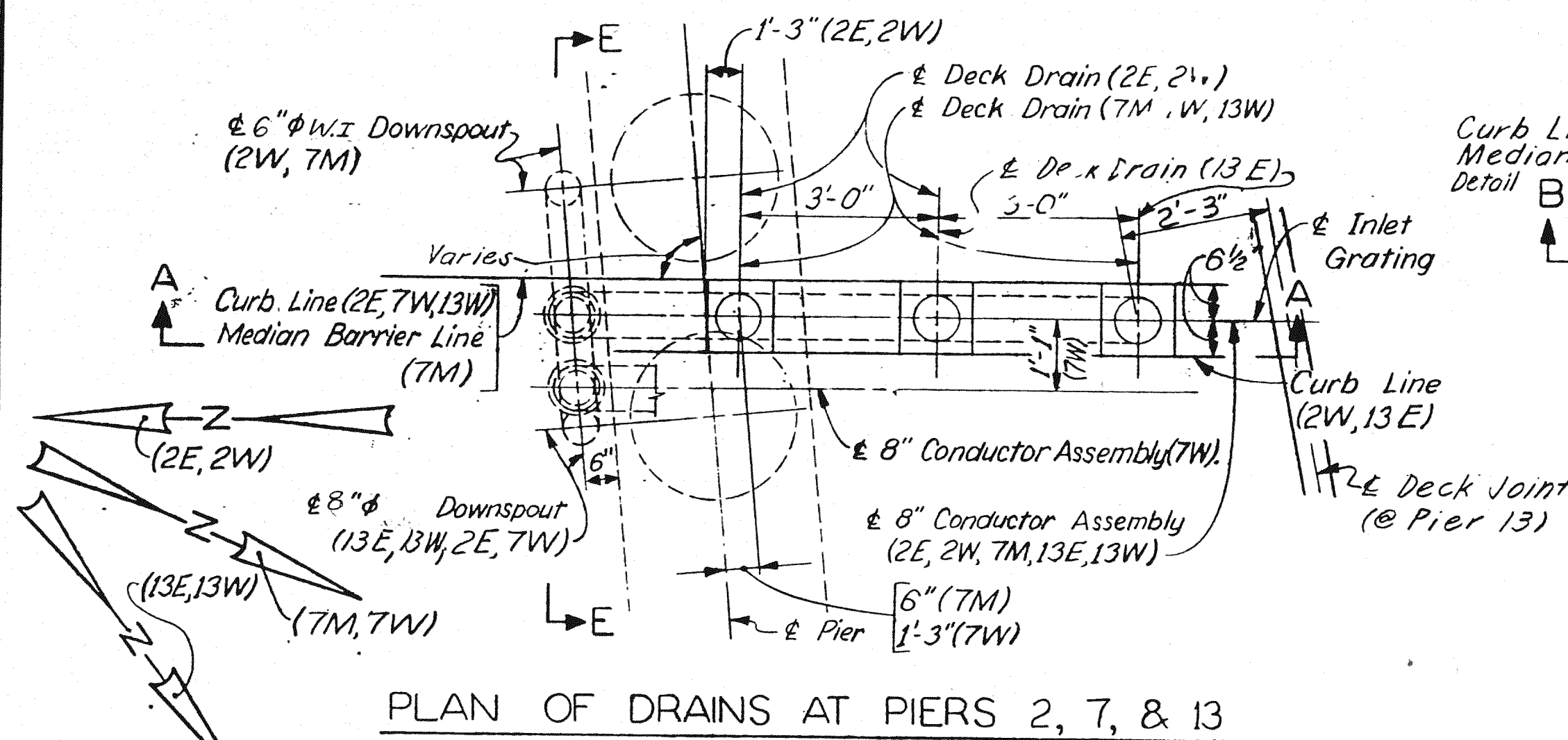
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THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 BEARING DETAILS

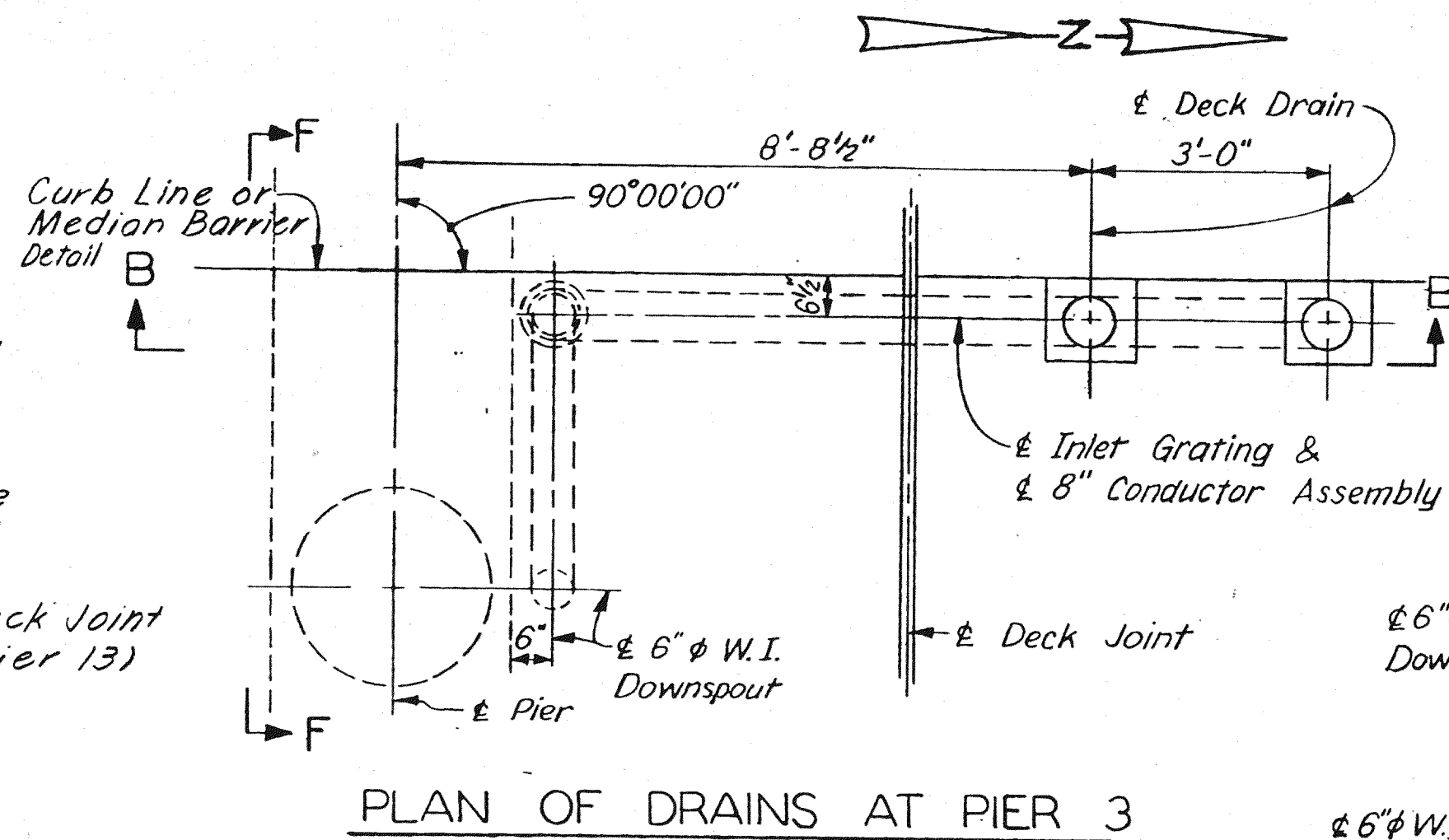
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET 25 OF 57		

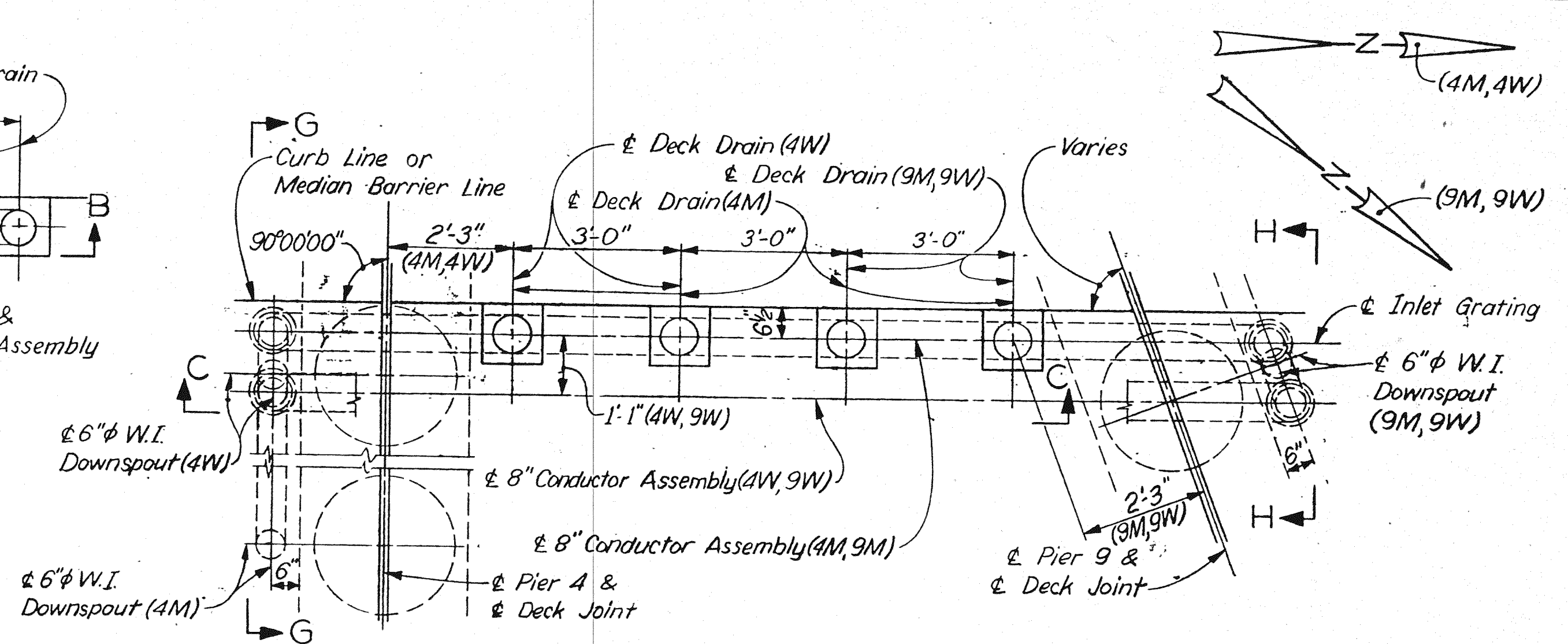
B01 of 82-22-48



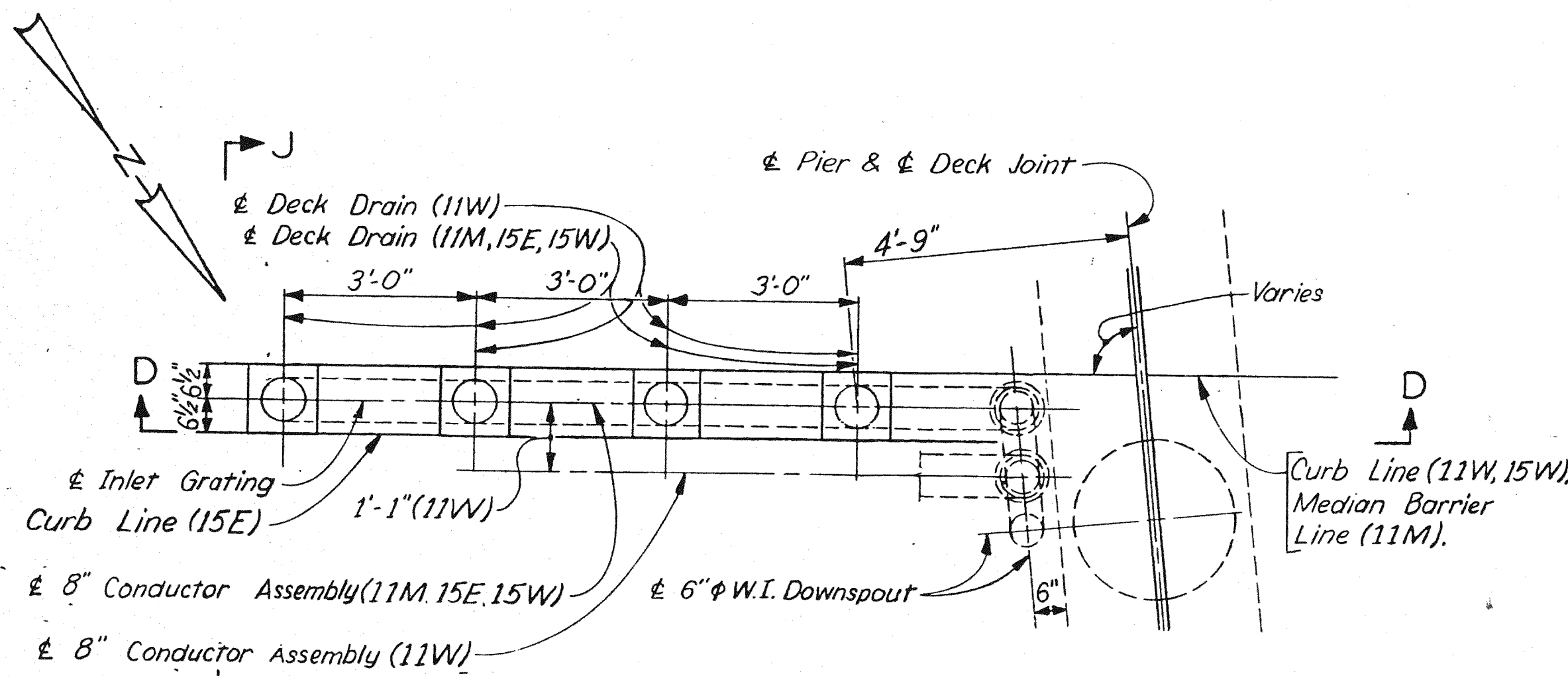
PLAN OF DRAINS AT PIERS 2, 7, & 13



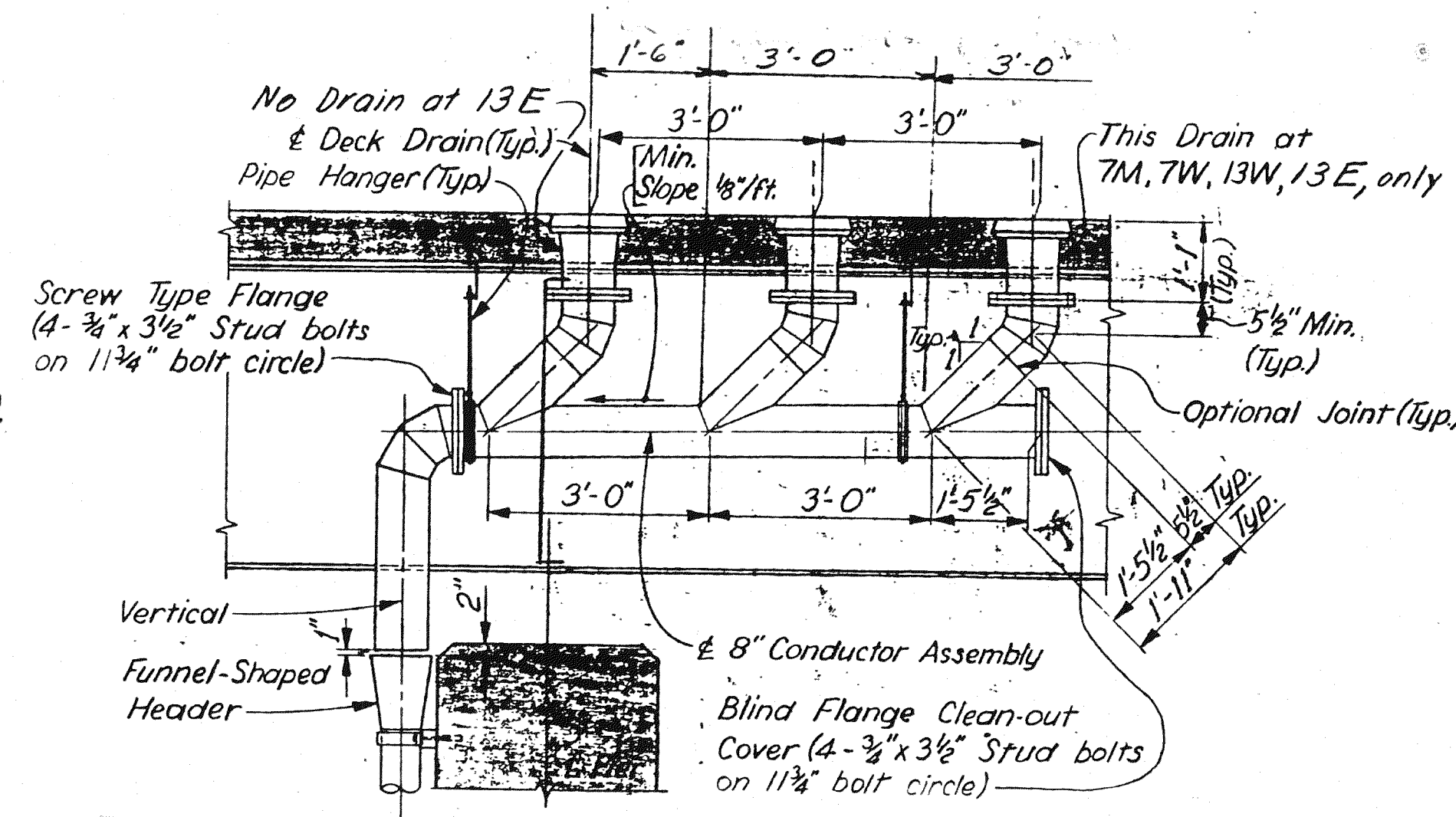
PLAN OF DRAINS AT PIER 3



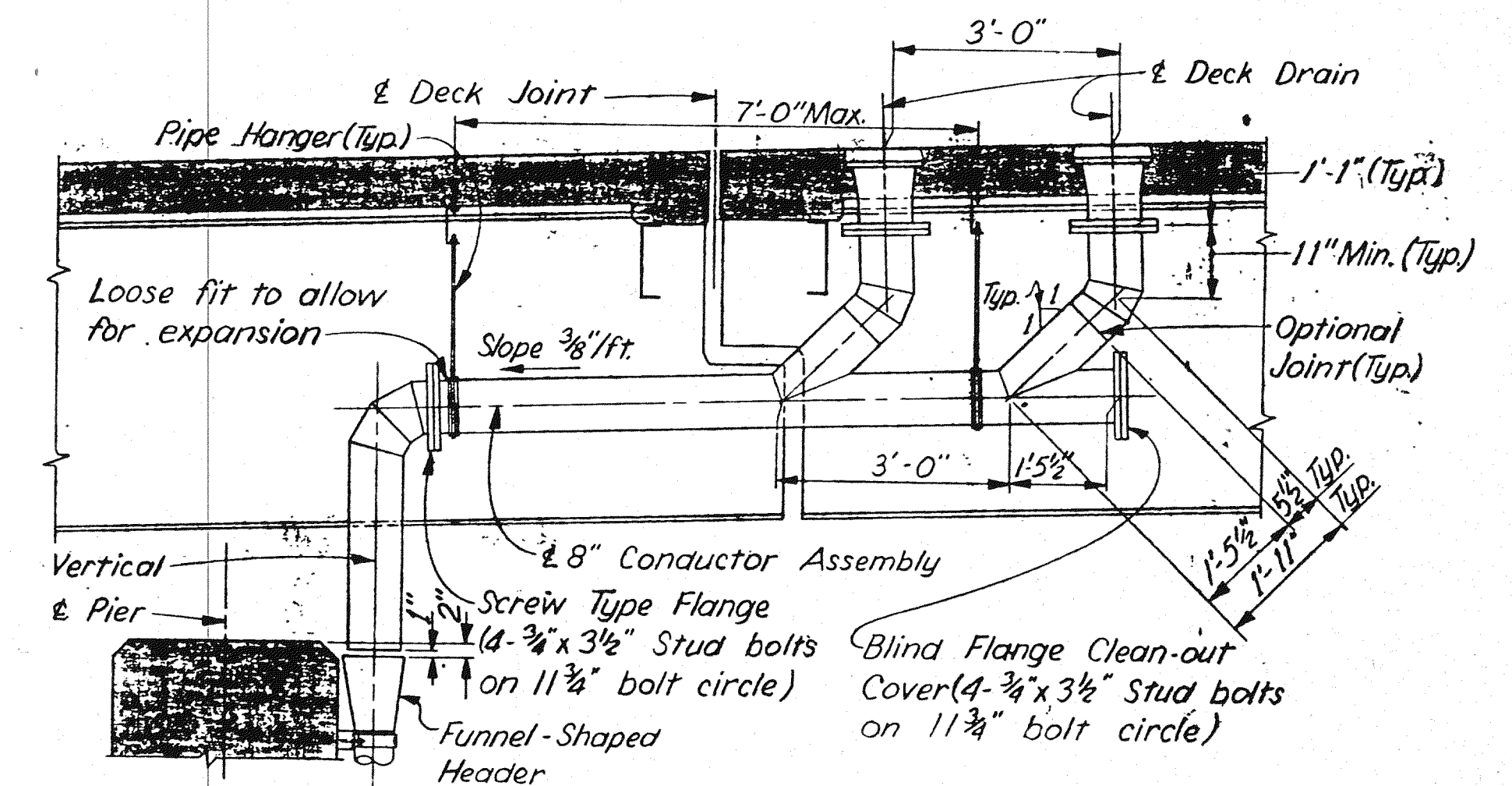
PLAN OF DRAINS AT PIERS 4 & 9



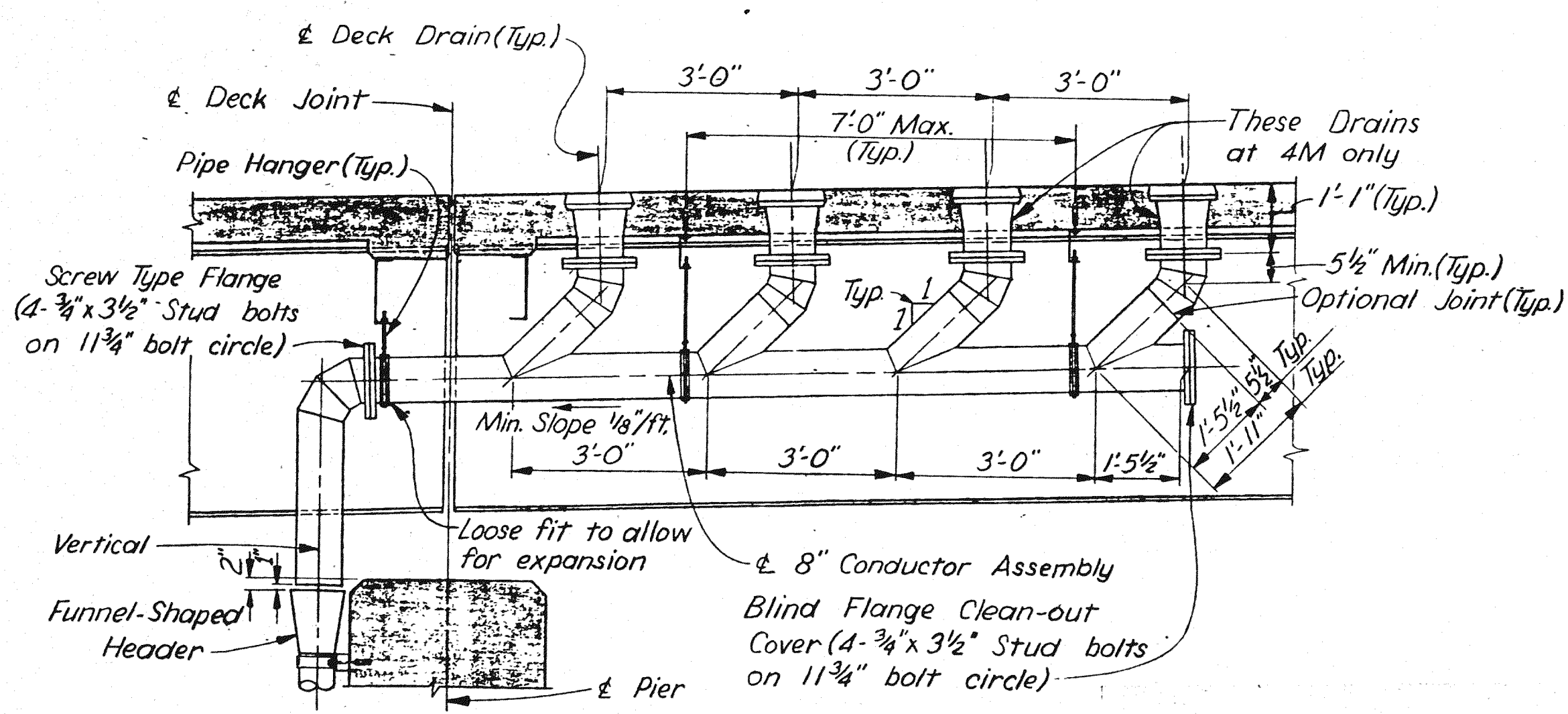
PLAN OF DRAINS AT PIERS 11 & 15



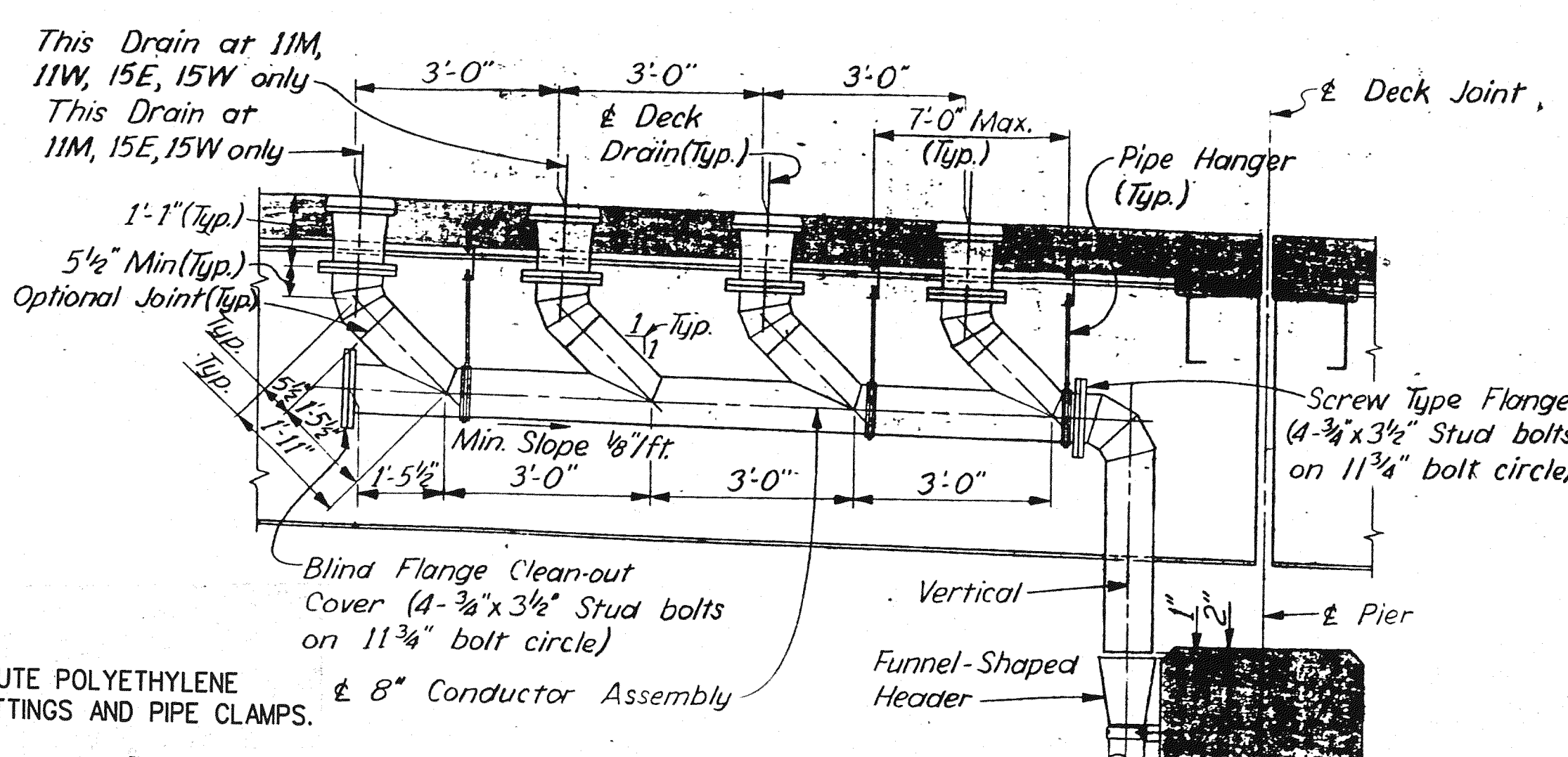
SECTION A-A (Shown for Pier 7)



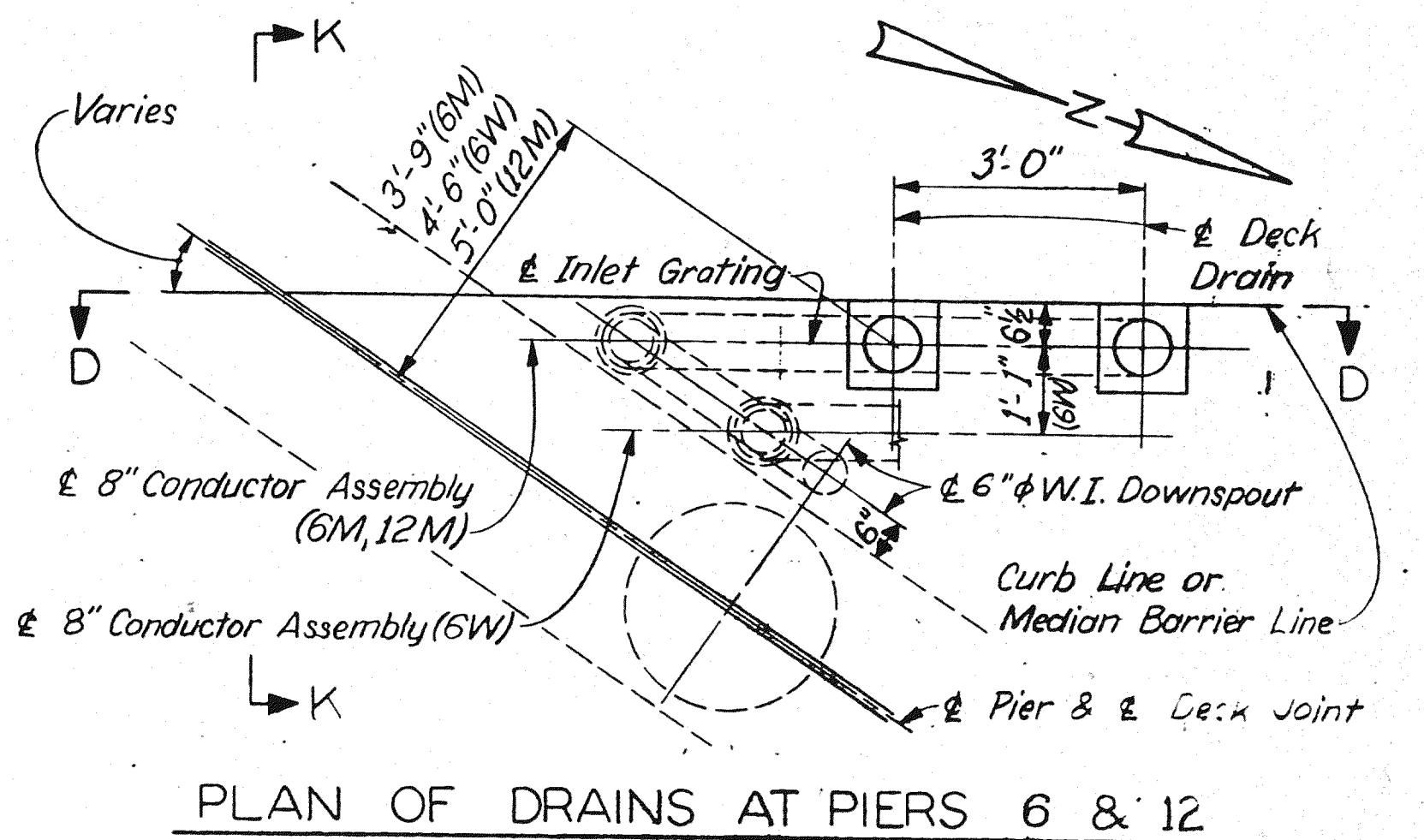
SECTION B-B



SECTION C-C (Shown for Pier 4)



SECTION D-D



PLAN OF DRAINS AT PIERS 6 & 12

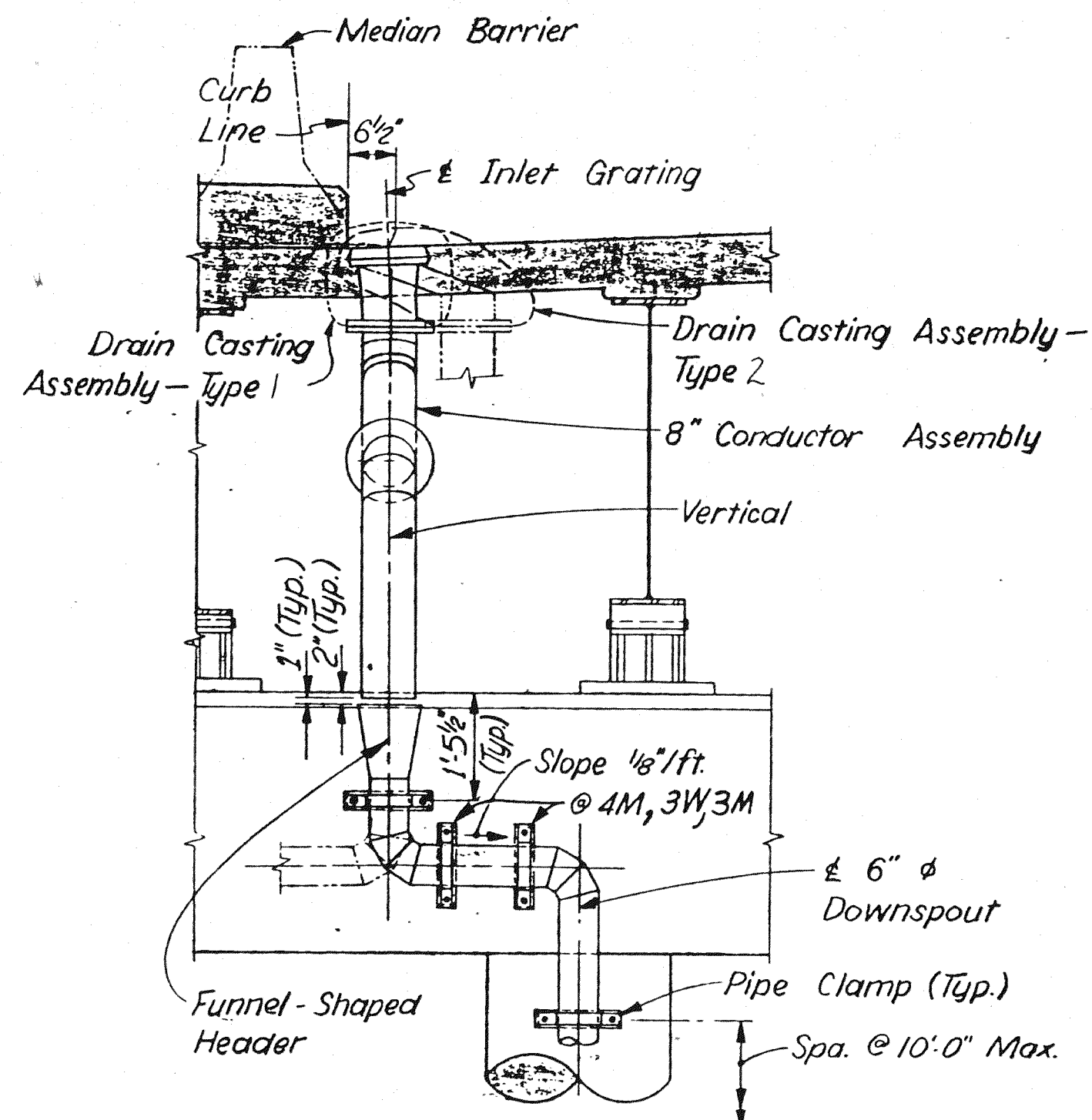
NOTES:
WROUGHT IRON PIPE SHOWN, SUBSTITUTE POLYETHYLENE (SCHEDULE 40) PLASTIC PIPE AND FITTINGS AND PIPE CLAMPS.
WORK THIS SHEET WITH SHEET 27.

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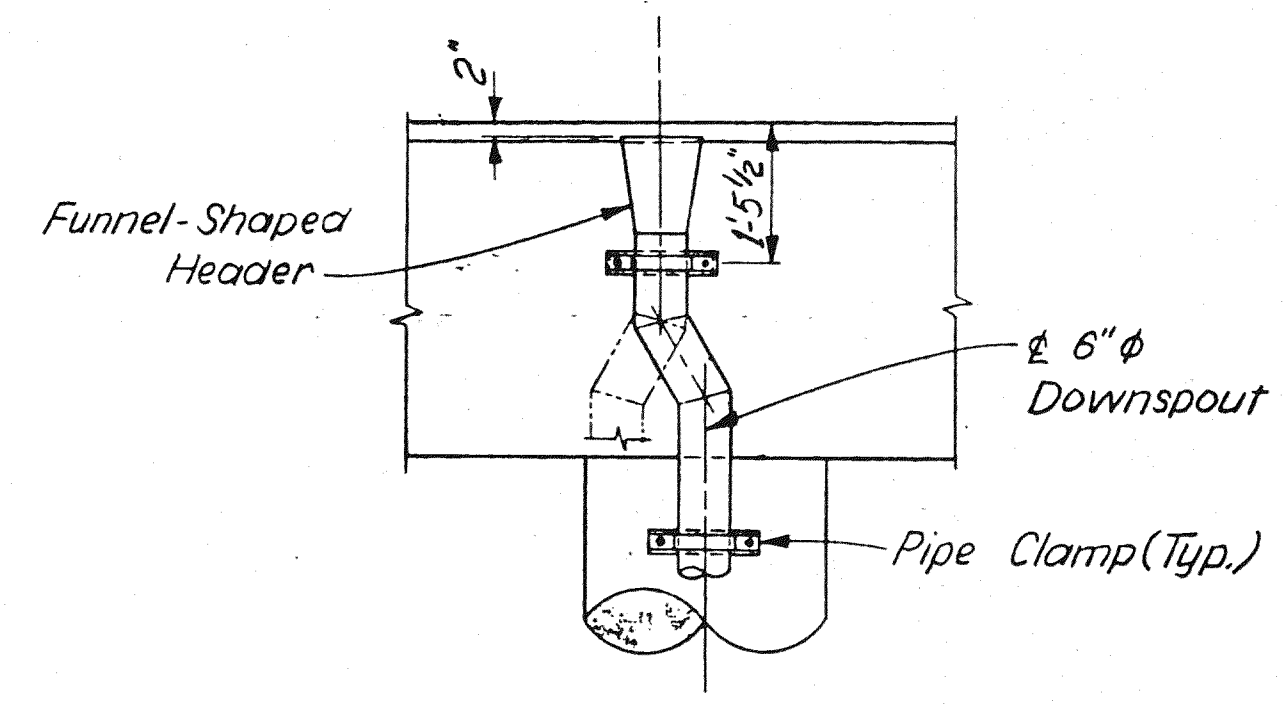
THE CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
DRAIN DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE	DATE
DRAWN BY	NAME	MW	DATE 4/94
CHECKED BY	NAME	RAW	DATE 5/94
SHEET 26 OF 57			

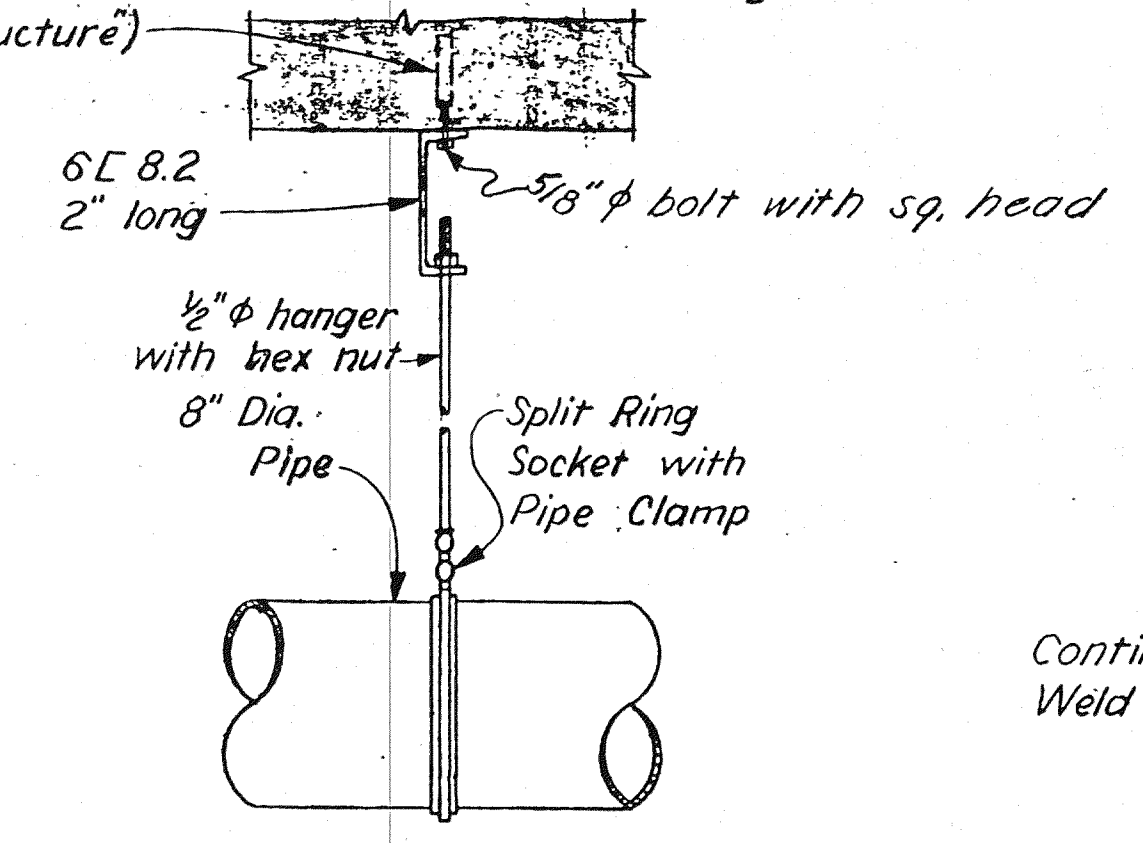


SECTION G-G
SECTIONS E-E, F-F, J-J, & K-K SIMILAR

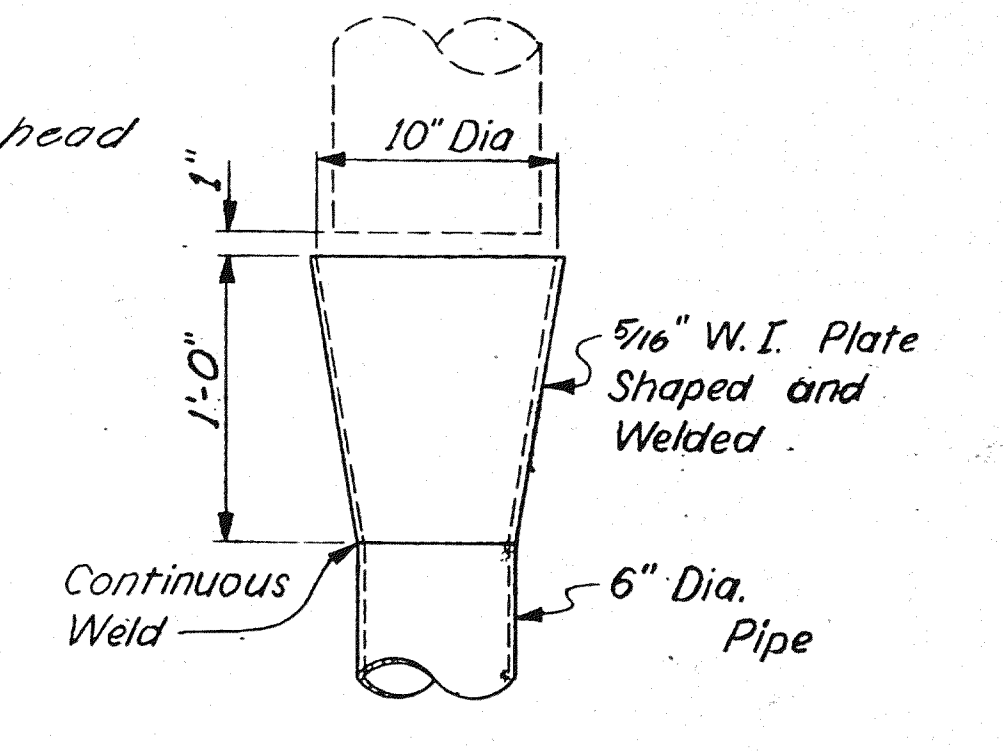


SECTION H-H
SECTIONS E-E, G-G, J-J, & K-K SIMILAR

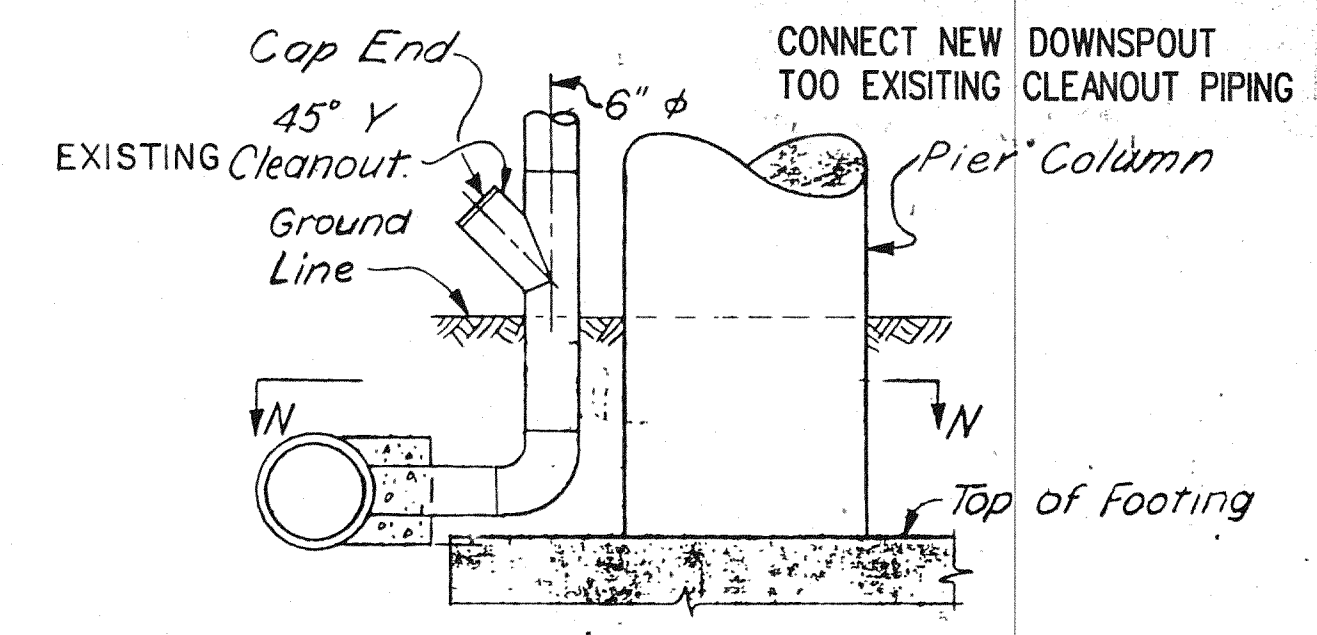
5/8" ϕ Screw Concrete Insert Fig. 152 as manufactured by Grinnell Co., Inc., Providence, R.I. or an approved equal. (Incidental to "Grade A (10B Gravel or 10B Slag) Concrete - Superstructure")



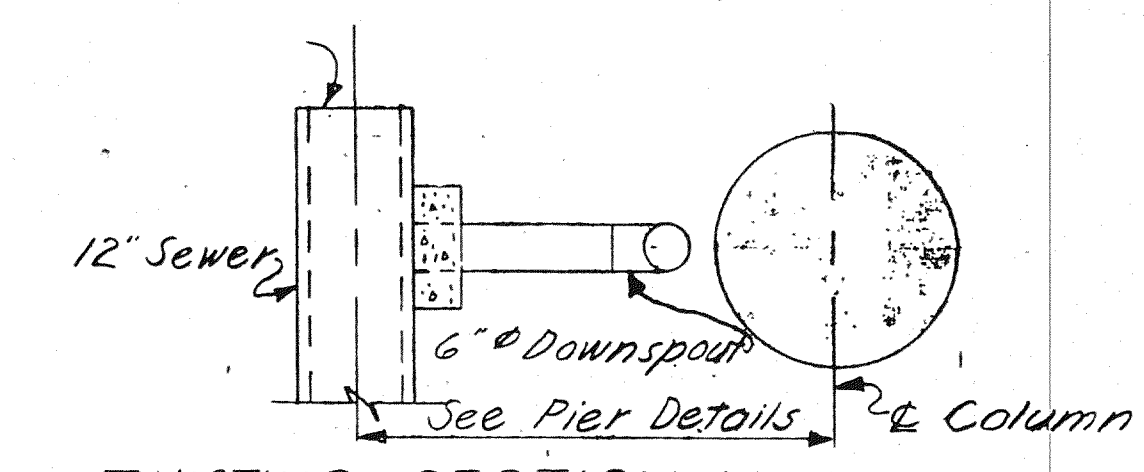
PIPE HANGER



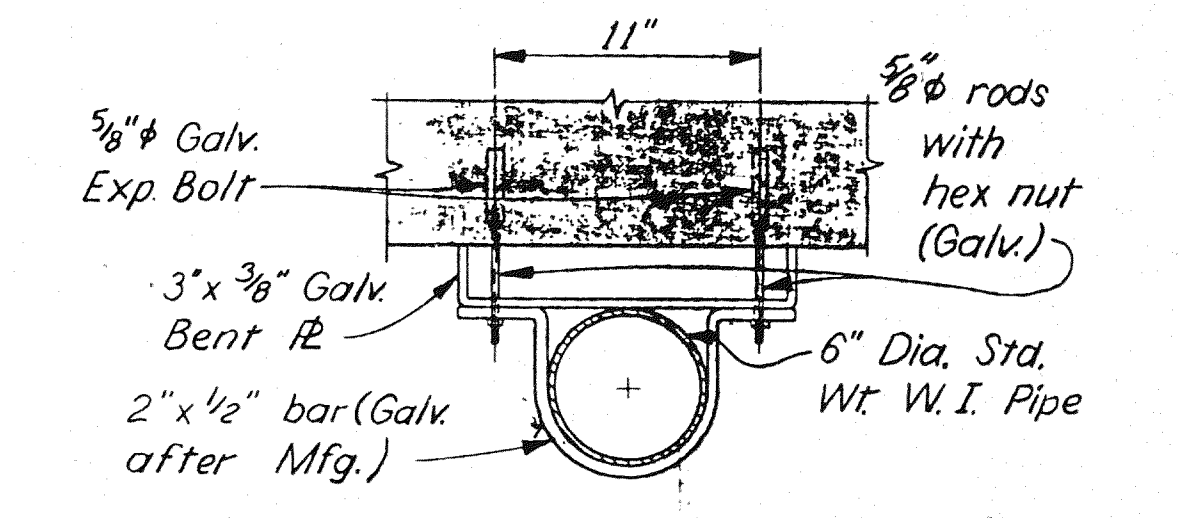
FUNNEL-SHAPED HEADER



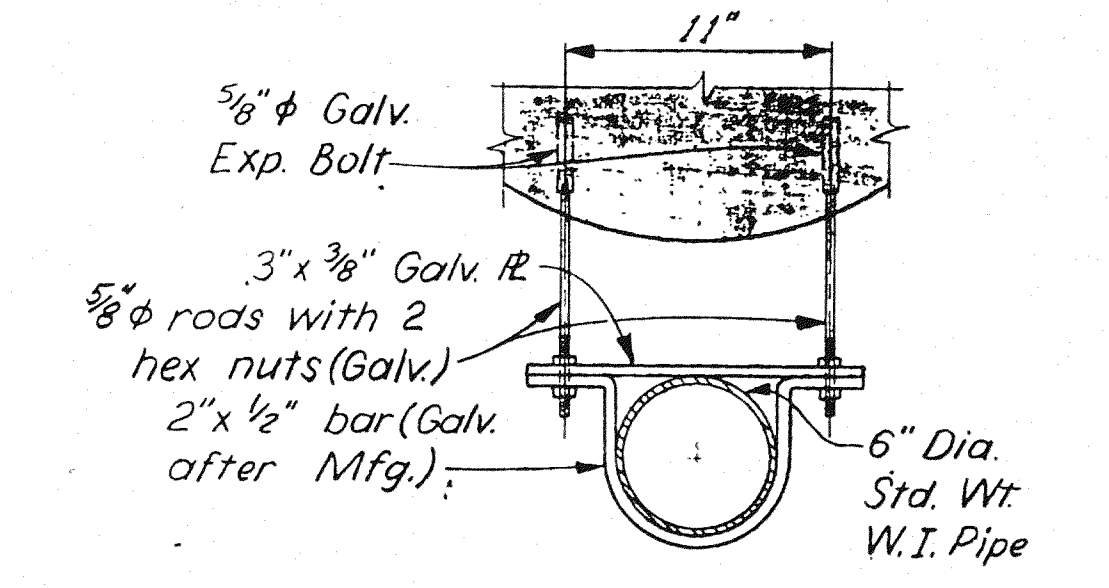
DOWNSPOUT AT FOOTING
(See Pier Detail Sheets)



EXISTING SECTION N-N



PIPE CLAMP ON PIER CAP



PIPE CLAMP ON PIER COLUMN

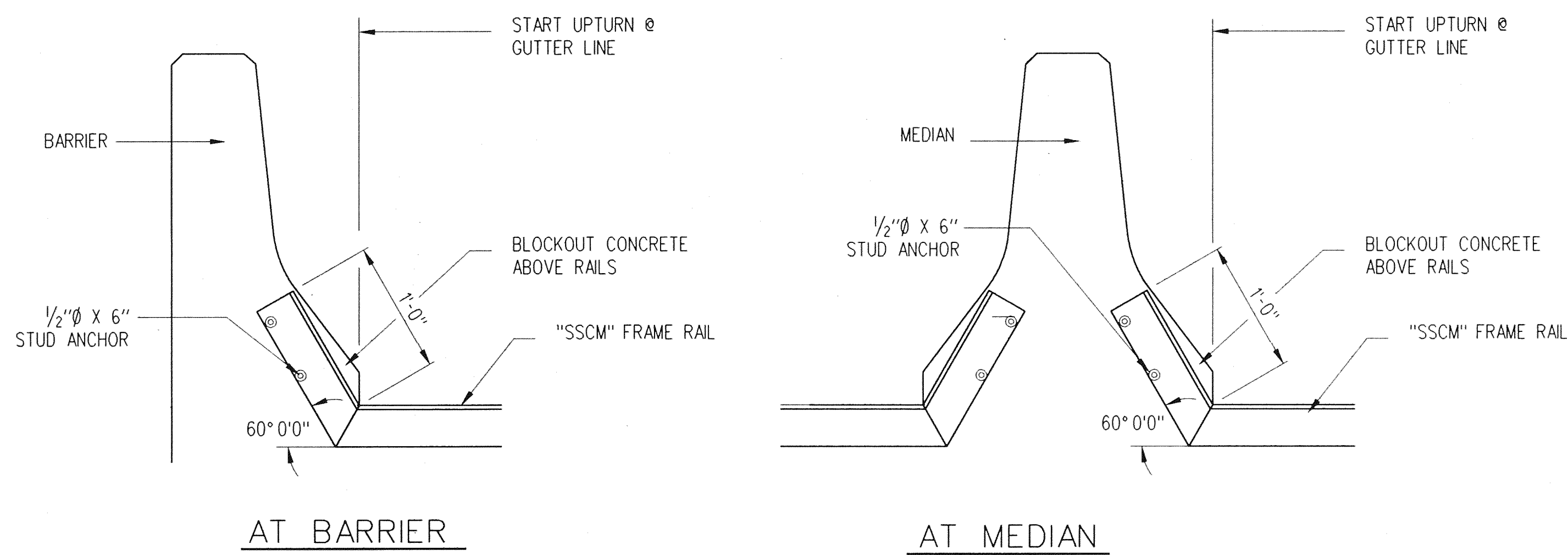
NOTE:
WORK THIS SHEET WITH SHEET 26, WROUGHT IRON PIPE SHOWN.
SUBSTITUTE POLYETHYLENE (SCHEDULE 40) PLASTIC PIPE
AND FITTINGS & PIPE CLAMPS

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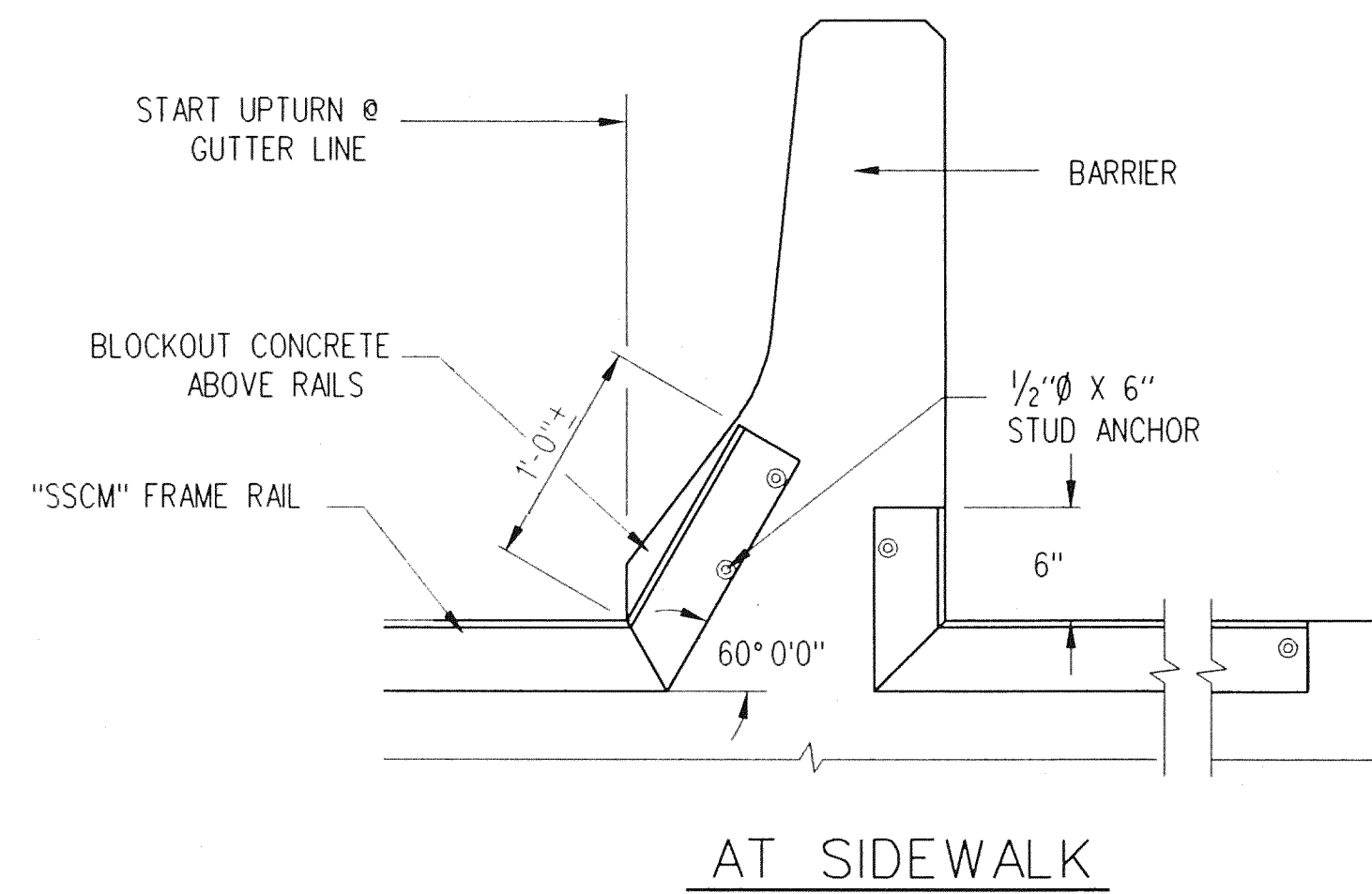
THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 DRAIN DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SOVAD BOSS	NAME	REL	DATE
DRAWN BY	NAME	MW	DATE 4/94
CHECKED BY	NAME	RAW	DATE 5/94
SHEET 27		OF 57	
B01 of 82-22-48			

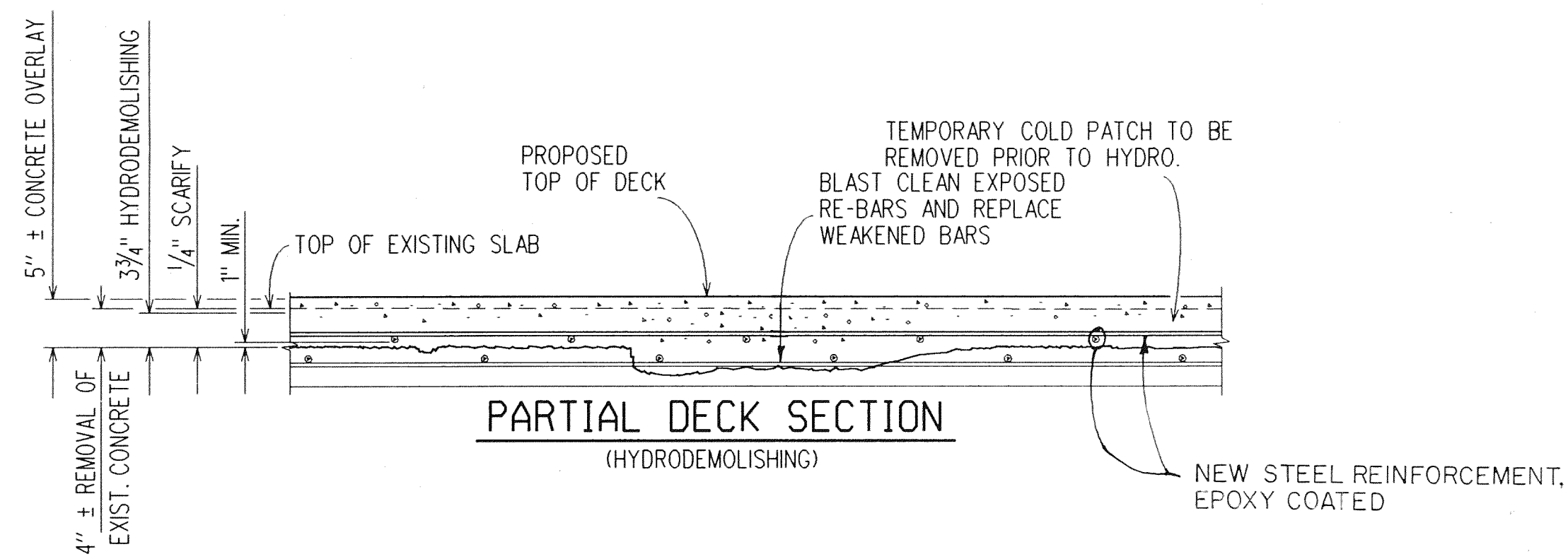


TYPICAL END TREATMENT

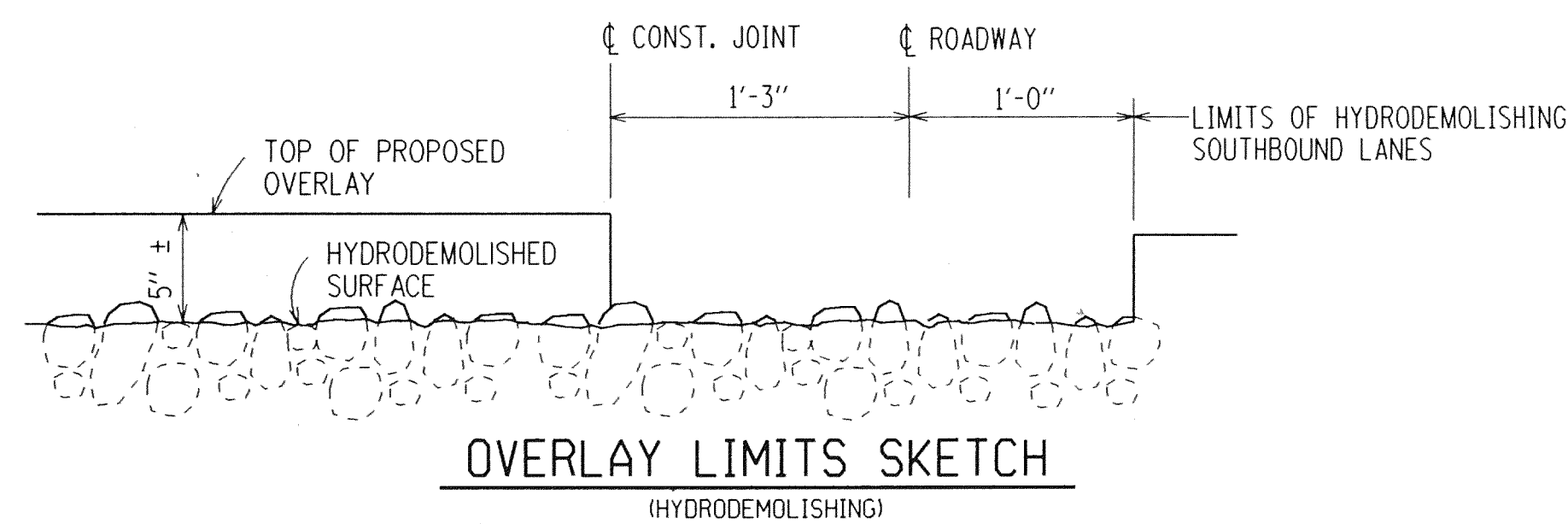


PLAN AT BARRIER RAILING

(DETAILS ARE SIMILAR AT END OF SIDEWALK)



PARTIAL DECK SECTION
(HYDRODEMOLISHING)



OVERLAY LIMITS SKETCH
(HYDRODEMOLISHING)

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	WATSON-BOWMAN & ACME, INC.
PRO-SPAN	FEL-PRO, INC.
STEELFLEX-SSA2	D.S. BROWN
STEELFLEX-SSCM	D.S. BROWN
STEELFLEX-RS	D.S. BROWN
ONFLEX 40 22	STRUCTURAL RUBBER PRODUCTS CO.
STRUPCO 400L	STRUCTURAL RUBBER PRODUCTS CO.
JEENE-W PROFILE	HYDROZO/JEENE

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 1.05.02. 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 STEEL ANCHORAGE FOR STRIP SEAL GLANDS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SUBSECTION 5.04.22 OF THE STANDARD SPECIFICATIONS.

THE PRO-SPAN DEVICE MUST INCORPORATE A CAST-IN-PLACE STEEL SEAT.

THE JEENE DEVICE MUST INCORPORATE A POLYMERIC NOSING.

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 8.16.04-e SHALL BE REQUIRED BETWEEN THE SEAL AND STEEL ANCHORAGE.

ALL BOLT WELL CAVITIES SHALL BE FILLED WITH AN APPROVED FLEXIBLE EPOXY OR A SEALANT CONFORMING TO FEDERAL SPECIFICATION TT-5-00230C.

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.

WHERE INFLATABLE SEALS ARE USED, THE MANUFACTURER'S INSTALLATION PROCEDURE MUST BE STRICTLY ADHERED TO AND PERFORMED BY AN AUTHORIZED CONTRACTOR.

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.

ANGLE OF CROSSING TO NEAREST 5°	LOCATION OF JOINT	MIN. TOT. TRAVEL ALONG CENTERLINE OF BRIDGE	REQUIRED LENGTH OF EXPANSION JOINT DEVICE
90°	PIER 1	0	59.5'
90°	PIER 2	2 1/4"	59.5'
90°	PIER 3	0	59.5'
90°	PIER 4	2 3/8"	66.8'
90°	PIER 5	1/2"	66.2'
35°	PIER 6	2	110.5'
50°	PIER 7	1 1/8"	78.8'
60°	PIER 8	0	73.3'
70°	PIER 9	2 1/4"	68.2'
75°	PIER 10	0	66.4'
85°	PIER 11	2 3/8"	64.8'
85°	PIER 12	0	64.8'
85°	PIER 13	2 1/4"	64.8'
85°	PIER 14	0	64.8'
65°	PIER 15	2 1/4"	65.2'

QUANTITY		
ITEM	UNIT	AMOUNT
EXPANSION JOINT DEVICE	LFT	1,033

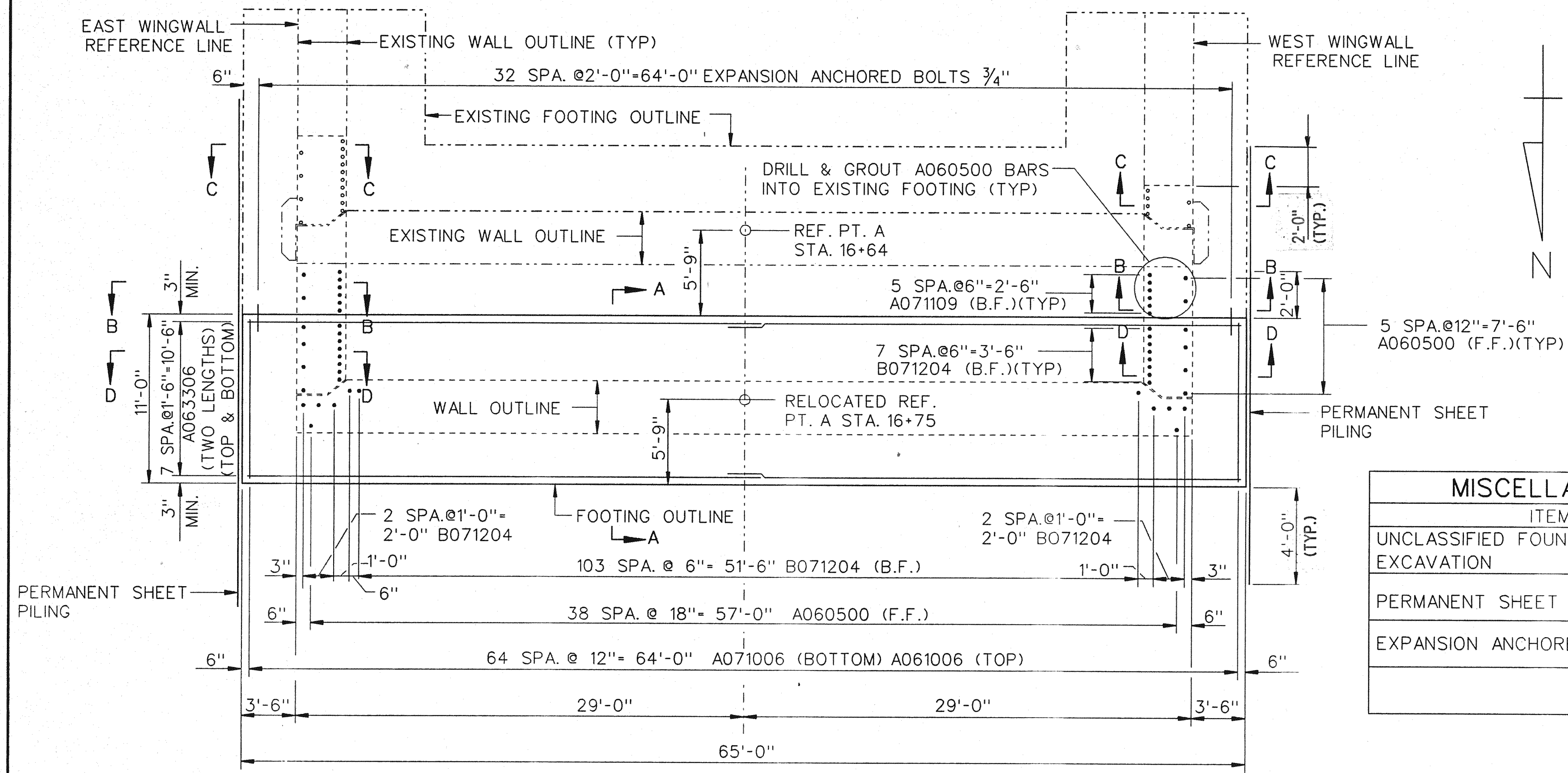
THE CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
EXPANSION JOINT DETAILS

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NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE

B01 of 82-22-48



FOOTING PLAN-ABUTMENT A

SUBFOOTING CONCRETE QUANTITY		
POUR	LOCATION	CYD
A	SUBFOOTING	13.2

SUBSTRUCTURE CONCRETE QUANTITY		
POUR	LOCATION	CYD
B	FOOTING	79.4

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
UNCLASSIFIED FOUNDATION EXCAVATION	CYD	185.4
PERMANENT SHEET PILING	SFT	660
EXPANSION ANCHORED BOLTS, 3/4"	EACH	66

NOTES:

ABUTMENT FOOTING IS DESIGNED FOR 2800 PSF AVERAGE DEAD LOAD PRESSURE AND 3200 PSF DEAD LOAD PLUS LIVE LOAD PRESSURE.

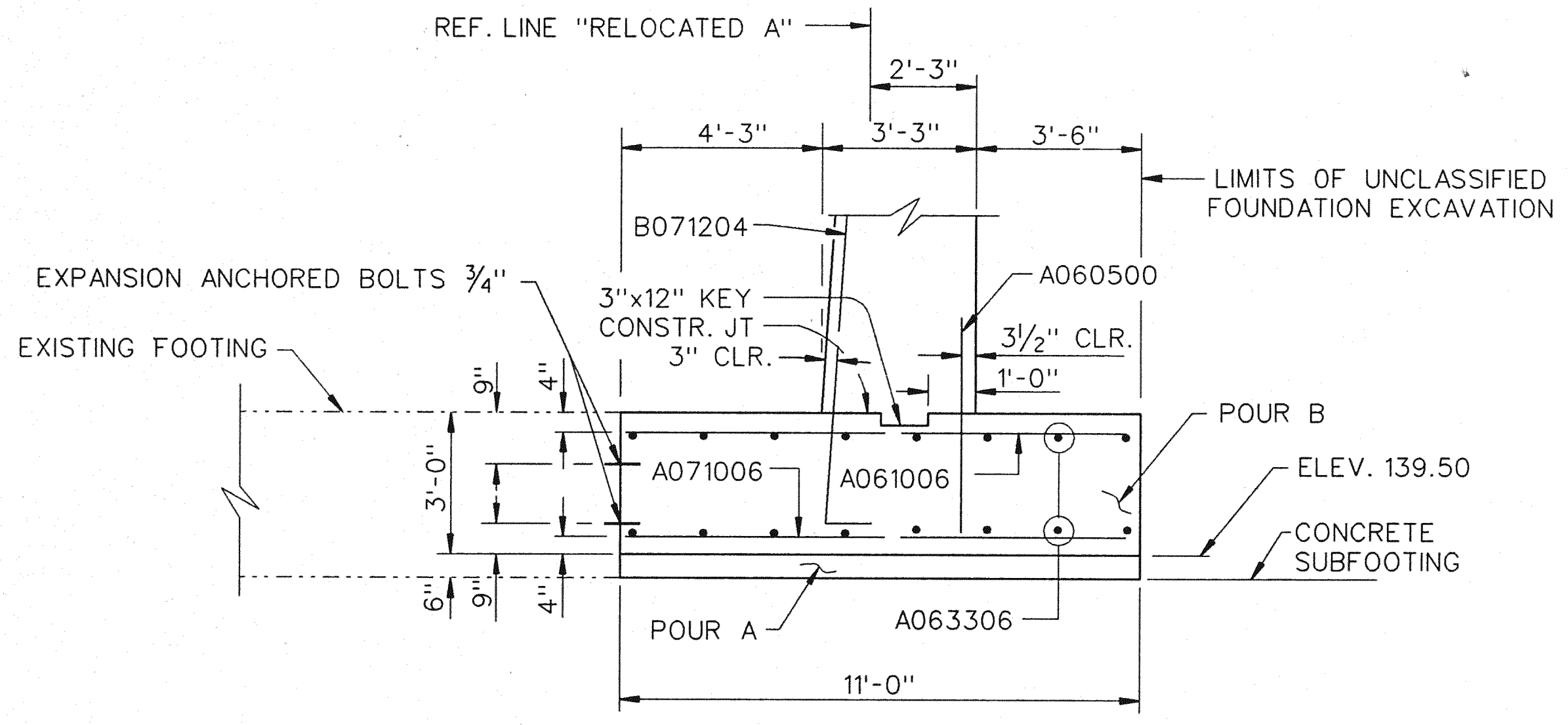
FOOTINGS ARE TO BE POURED AGAINST UNDISTURBED SOIL. NO ALLOWANCE WILL BE MADE IN CONCRETE QUANTITIES DUE TO EXCAVATION OUTSIDE OF THE FOOTING NEAT LINES.

CONSTRUCTION JOINTS IN FOOTINGS ARE OPTIONAL.

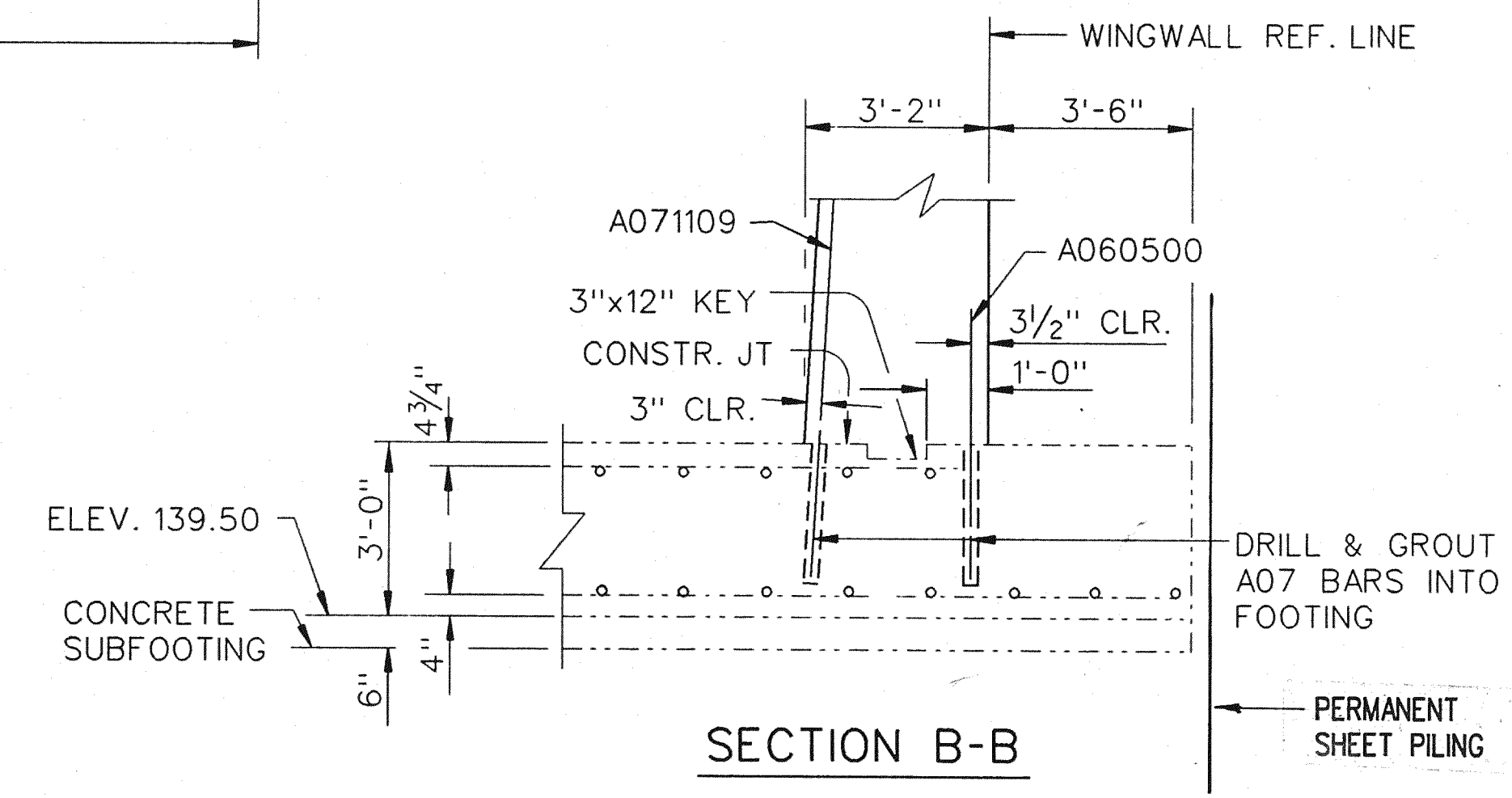
"EXPANSION ANCHORED BOLTS" OF THE SIZE INDICATED SHALL BE CHOSEN FROM THE LIST OF PREQUALIFIED MATERIALS IN THE CURRENT MDOT MATERIAL SAMPLING GUIDE.

THE 3/4" Ø INCH EXPANSION BOLTS SHALL PROVIDE A MINIMUM PULLOUT RESISTANCE OF 7,500 LBS. AT 1/2" SLIPPAGE.

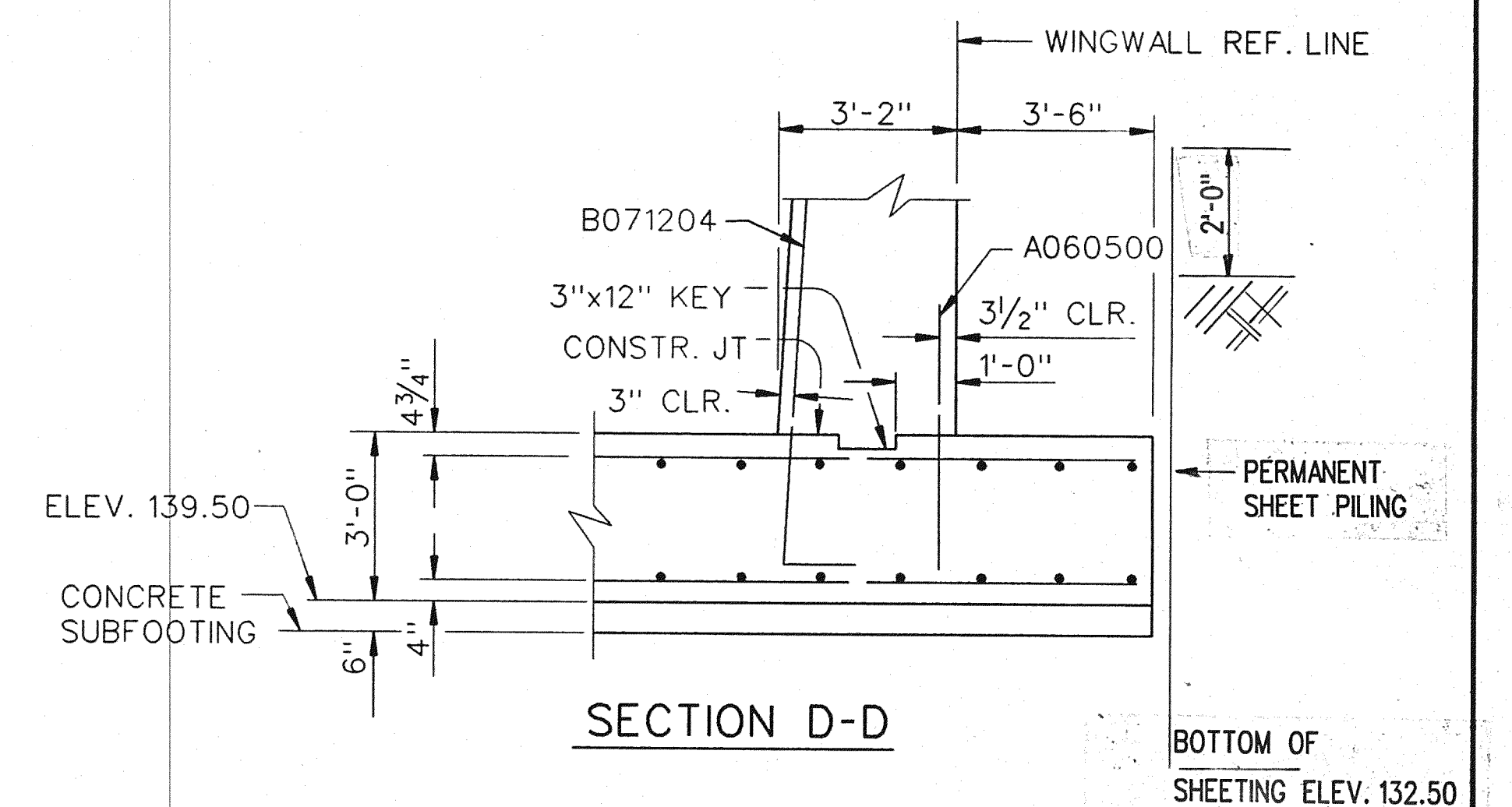
B.F. DENOTES BACK FACE.
F.F. DENOTES FRONT FACE.



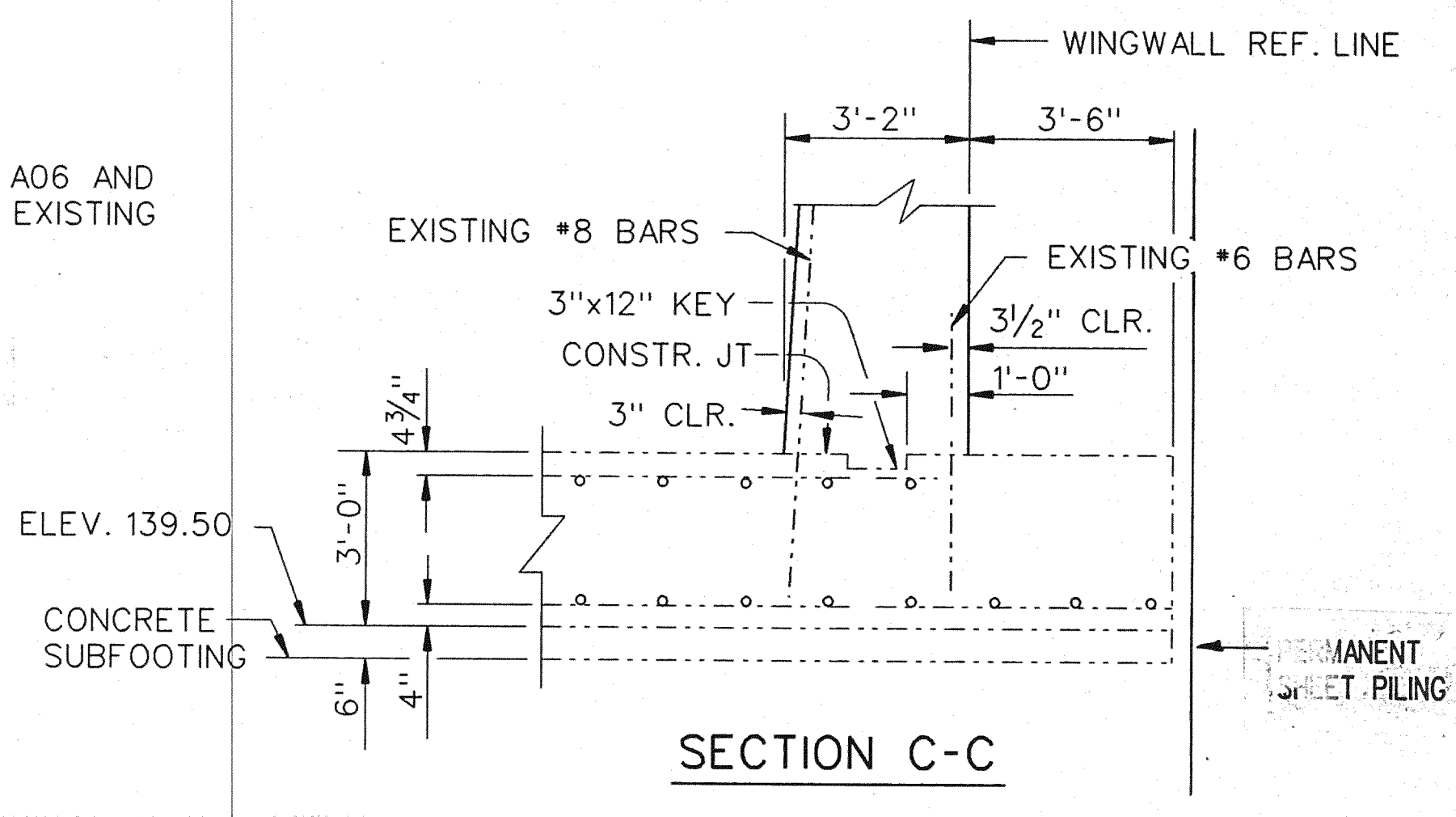
SECTION A-A



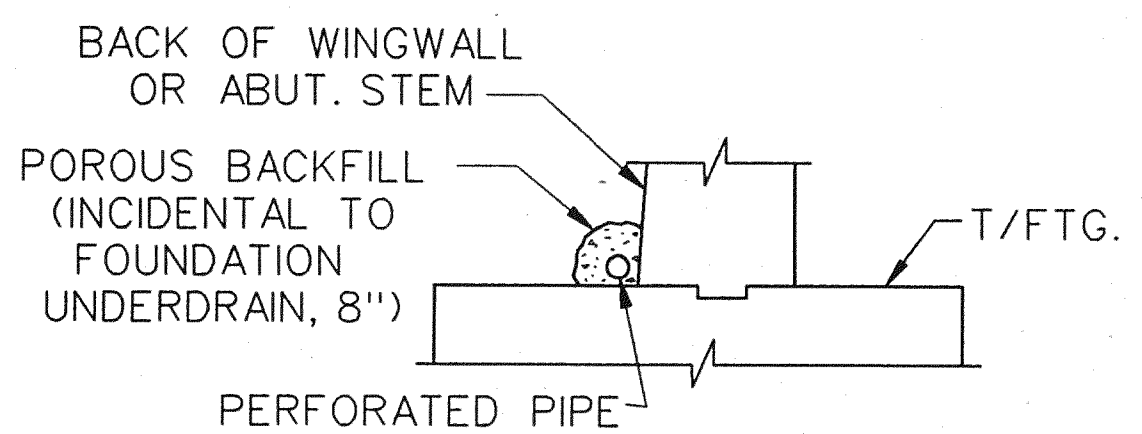
SECTION B-B



SECTION D-D



SECTION C-C



DETAIL A

(SEE PLANS OF WALL A AND B SHEETS 27 AND 29)

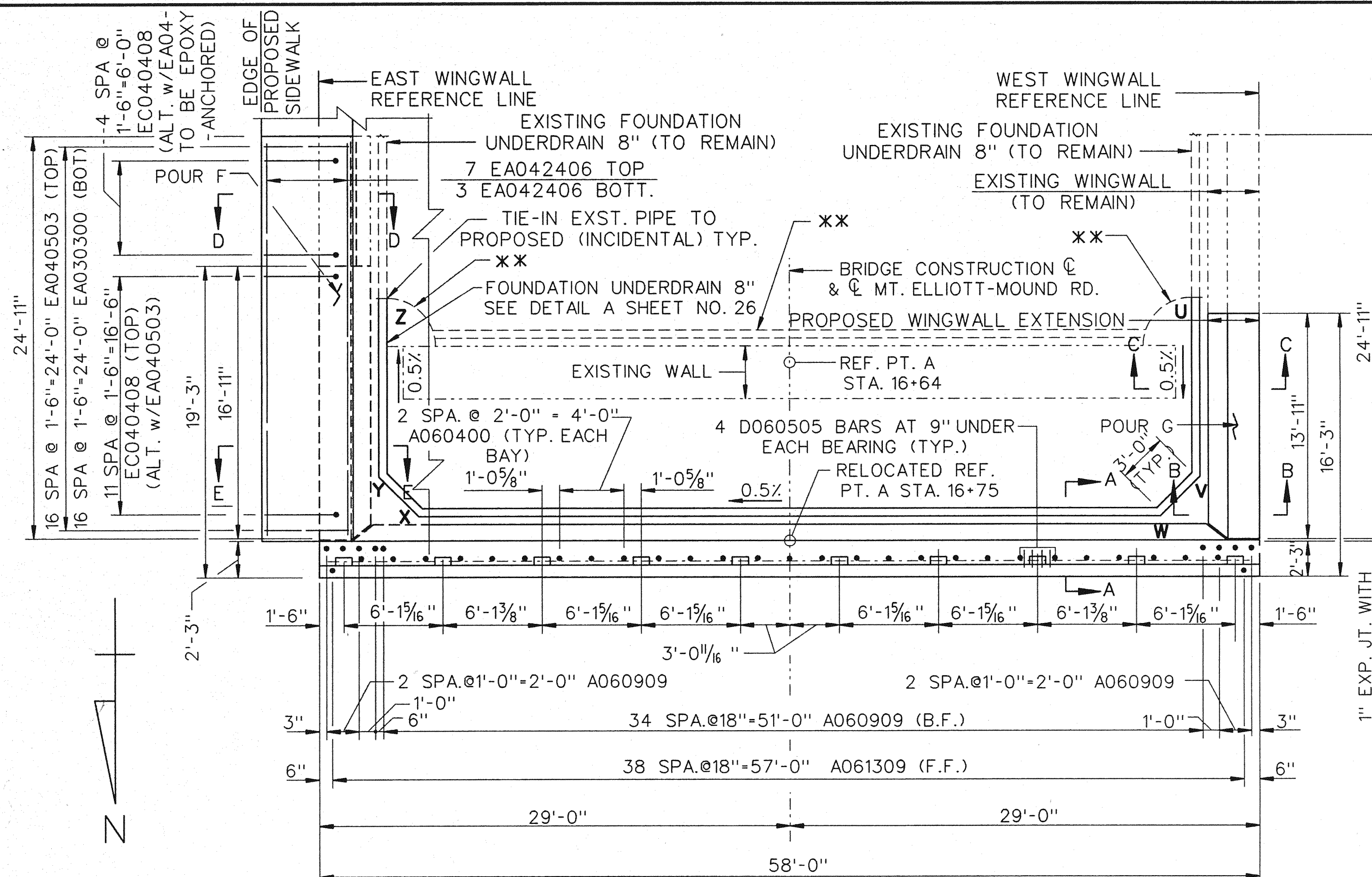
PERMANENT SHEET PILING TO BE CUT TO 6" BELOW GROUND ELEVATION, INCLUDED IN COST FOR "PERMANENT SHEET PILING."

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DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
ABUTMENT A - FOOTING DETAILS

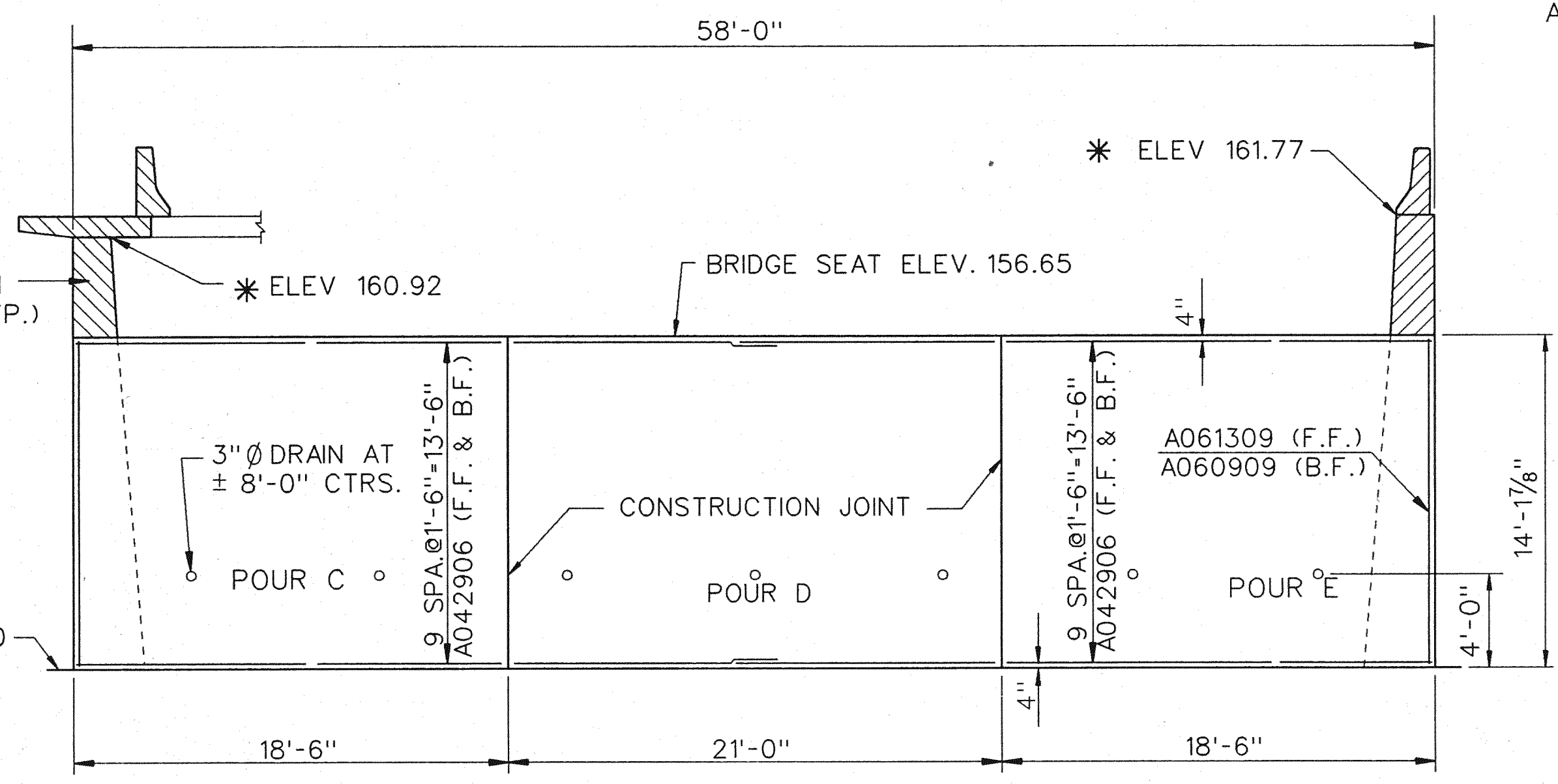
REVISIONS			
NO.	DESCRIPTION	DATE	BY

DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET 29 OF 57		
B01 of 82-22-48		



PLAN OF WALL-ABUTMENT A

PERFORATED PIPE INVERT	ELEVATION
U	143.56
V	143.49
W	143.47
X	143.24
Y	143.22
Z	143.15

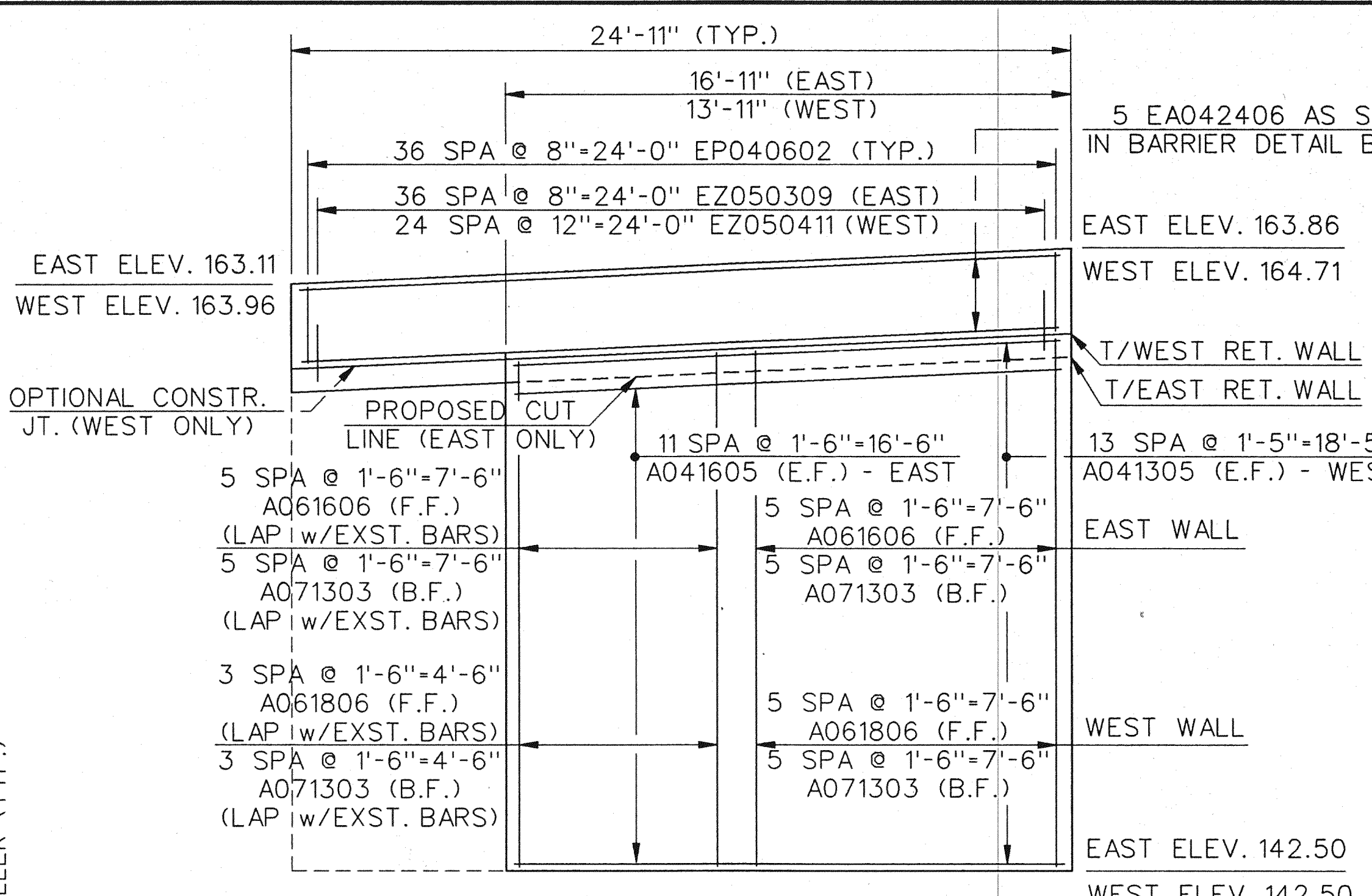


ELEVATION-ABUTMENT A

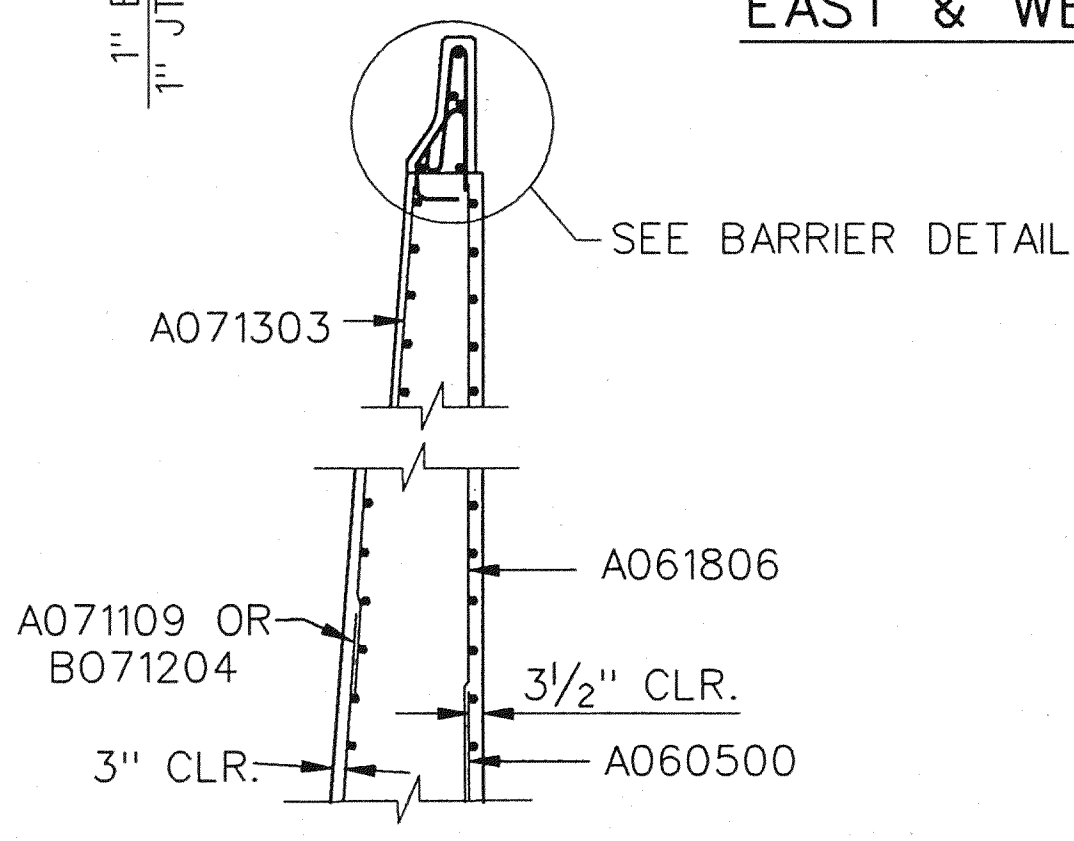
NOTE:
 BARRIER ON WEST WINGWALL TO BE PLACED AT THE TIME OF THE RETAINING WALL BARRIER.
 EAST WINGWALL BARRIER TO BE PLACED AT THE TIME OF THE RETAINING WALL SIDEWALK.
 ** EXISTING MANHOLE NO. 1 AND 2 AND FOUNDATION UNDERDRAIN 8" TO BE REMOVED (COST INCIDENTAL TO REMOVAL OF EXISTING STRUCTURE).
 * ELEVATIONS GIVEN ALONG RELOCATED REF. LINE A

SUBSTRUCTURE CONCRETE QUANTITIES		
POUR	LOCATION	CYD
C	ABUT. STEM	26.9
D	ABUT. STEM	30.3
E	ABUT. STEM	26.9
F	WW. STEM & SW.	34.2
G	WW. STEM	25.1
TOTAL		143

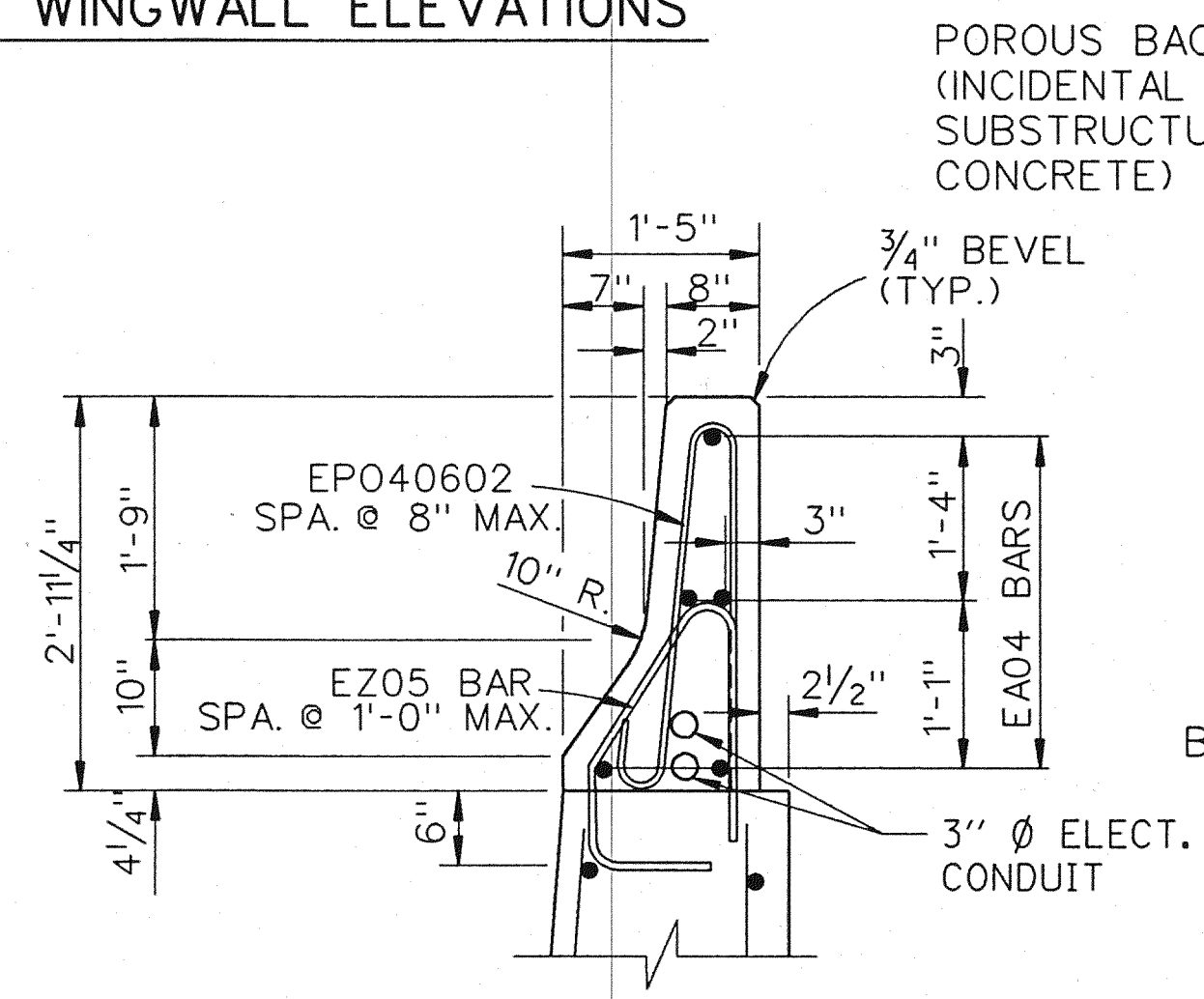
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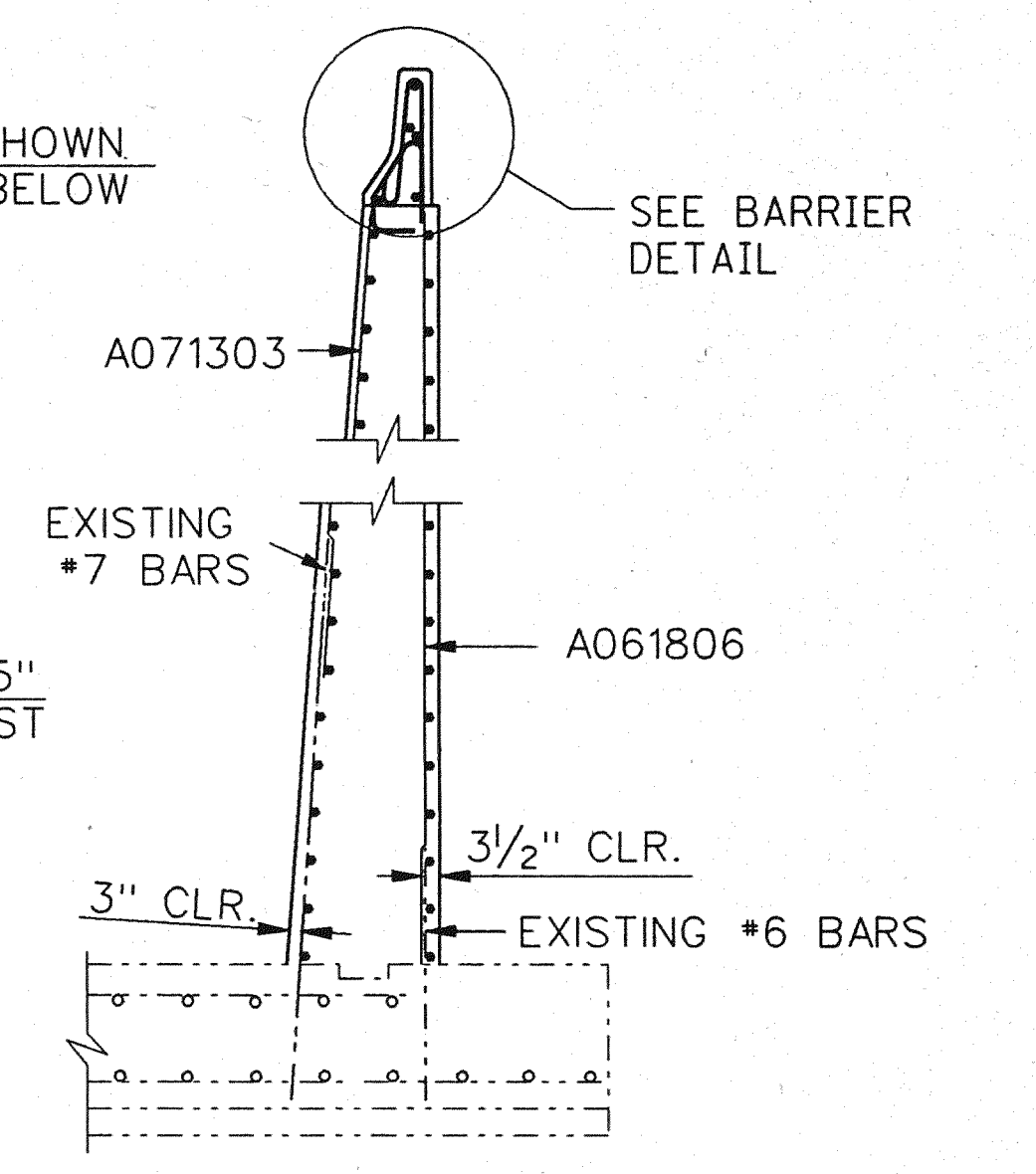
EAST & WEST WINGWALL ELEVATIONS



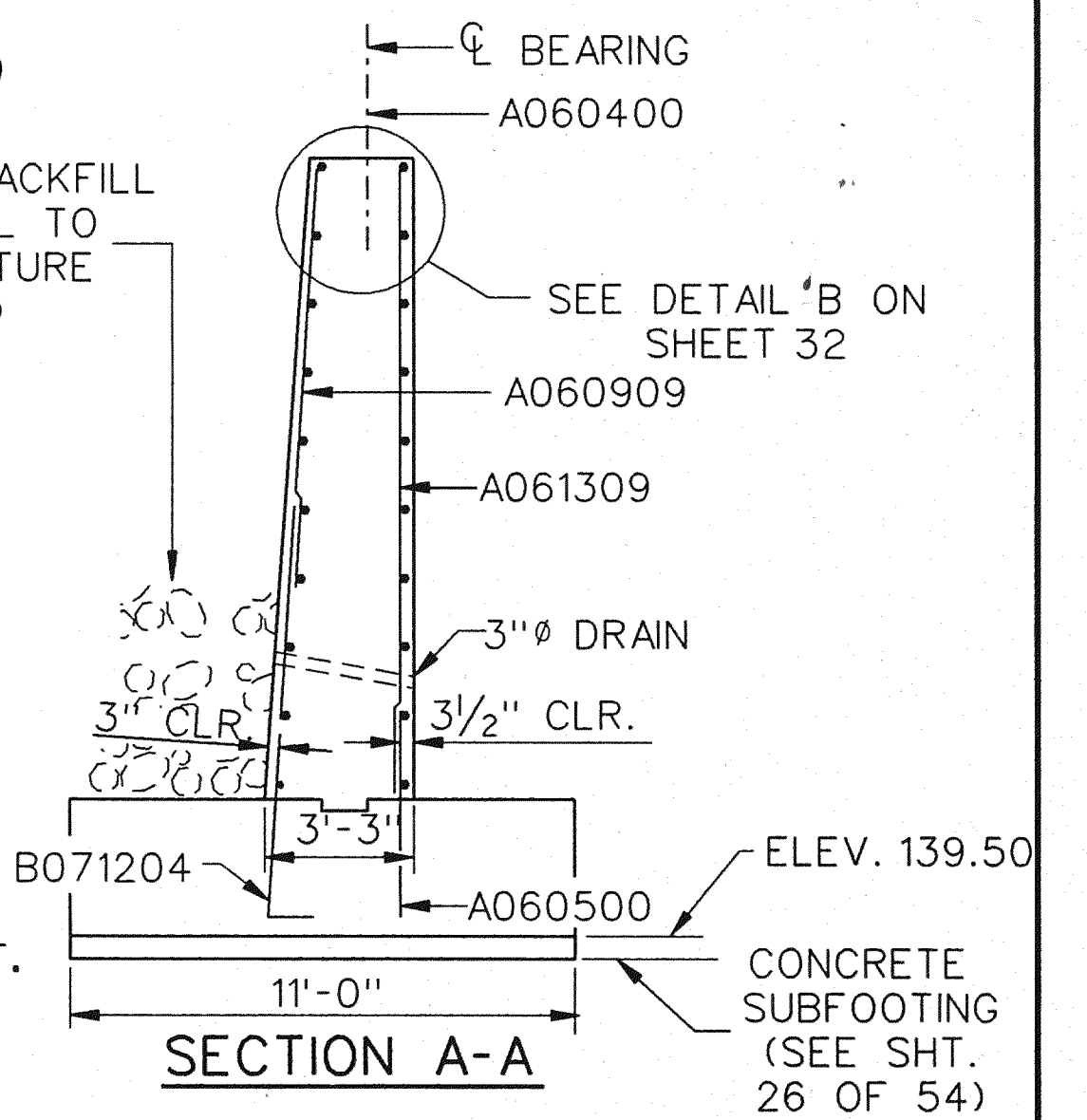
SECTION B-B



BARRIER DETAIL
 (APPLICABLE TO WEST SIDE ONLY)

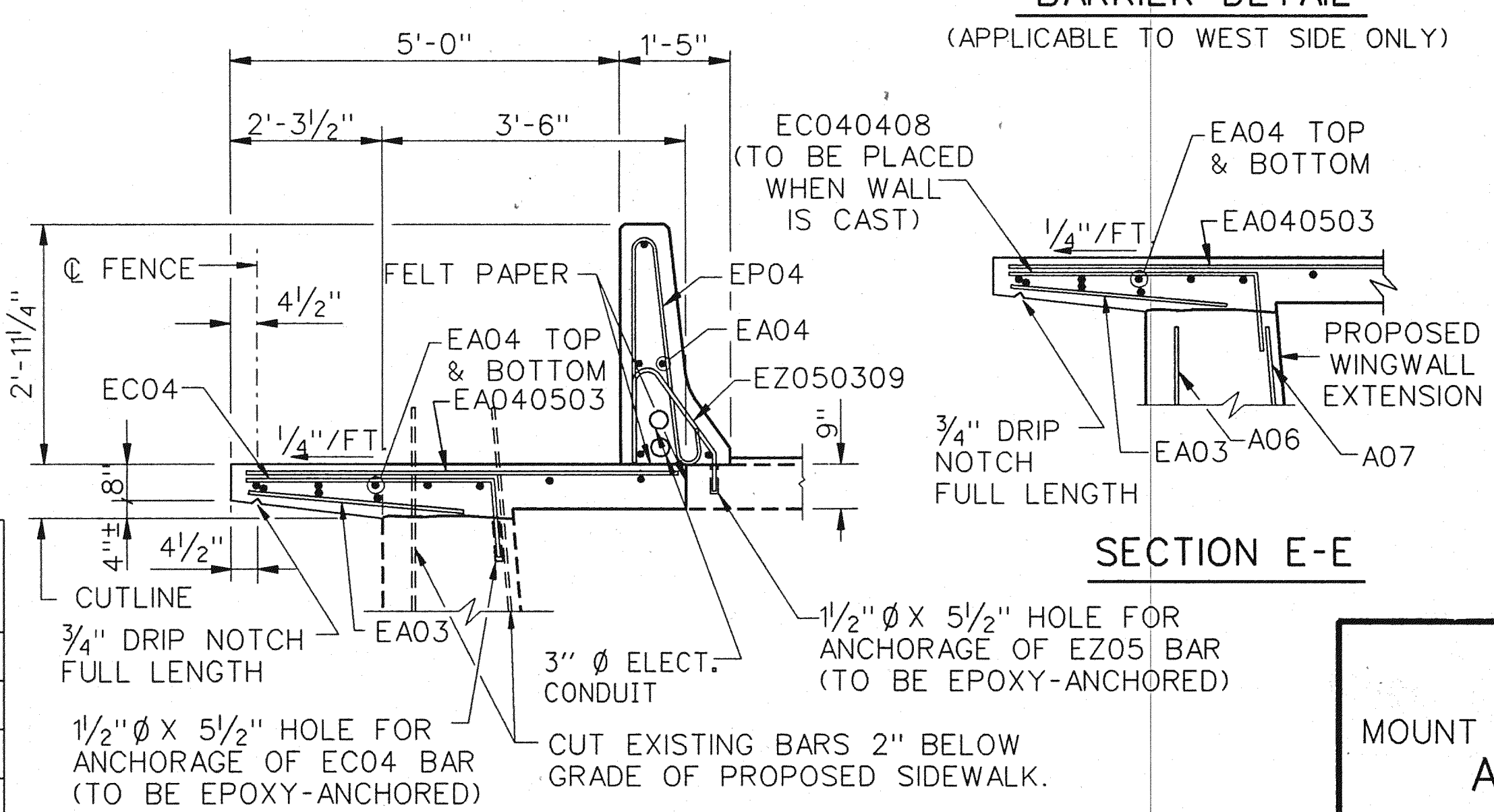


SECTION C-C



SECTION A-A

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	49.8
EPOXY ANCHORING OF VERTICAL BAR, 1/2"	EACH	5
EPOXY ANCHORING OF VERTICAL BAR, 5/8"	EACH	25
FOUNDATION UNDERDRAIN, 8"	LFT	80



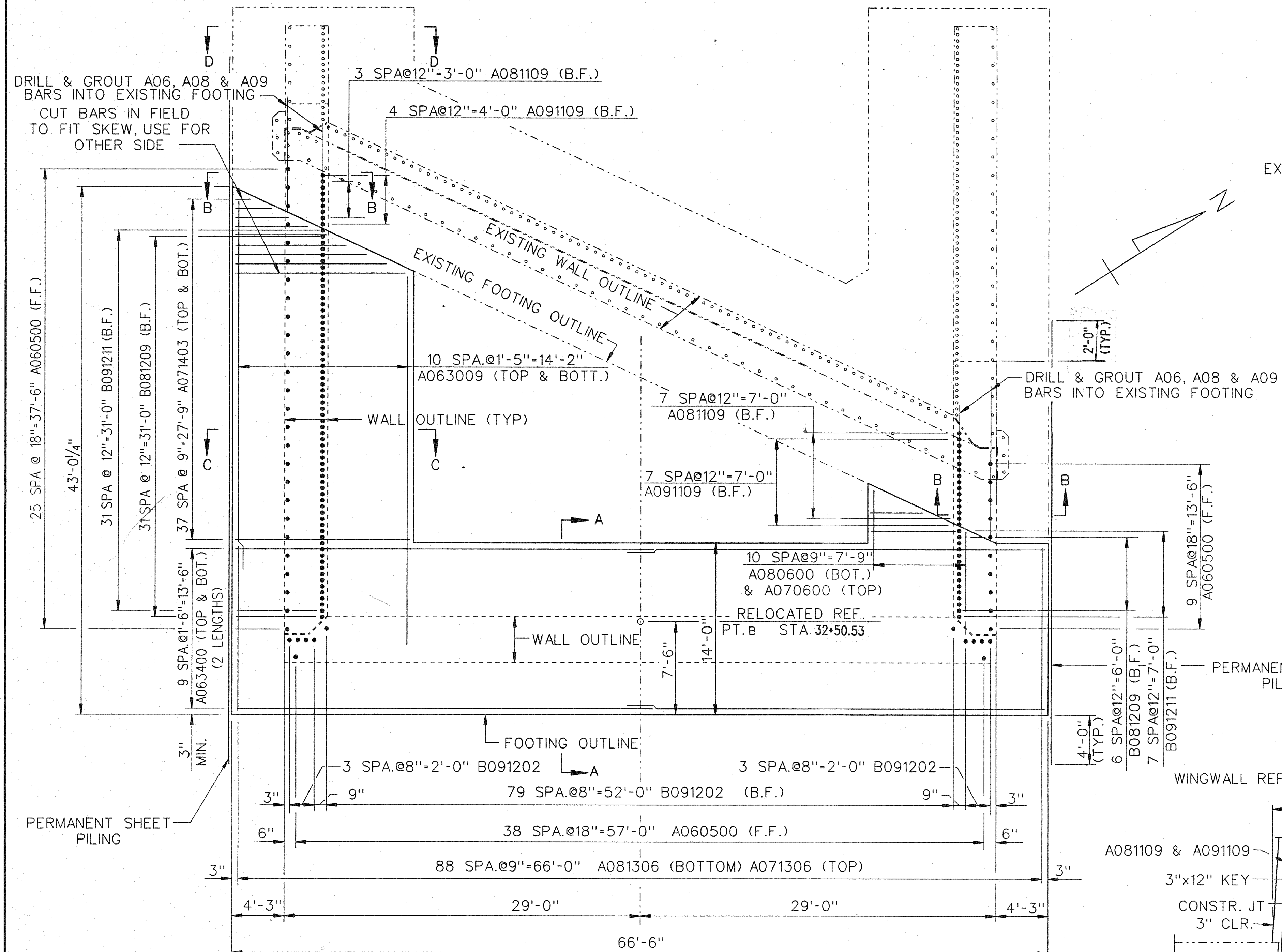
SECTION D-D

REVISIONS			
NO.	DESCRIPTION	DATE	BY

THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 ABUTMENT A - WALL DETAILS

SQUAD BOSS	NAME	DATE

CHECKED BY: NAME RAD DATE 2/94
 SHEET 30 OF 57
 B01 of 82-22-48



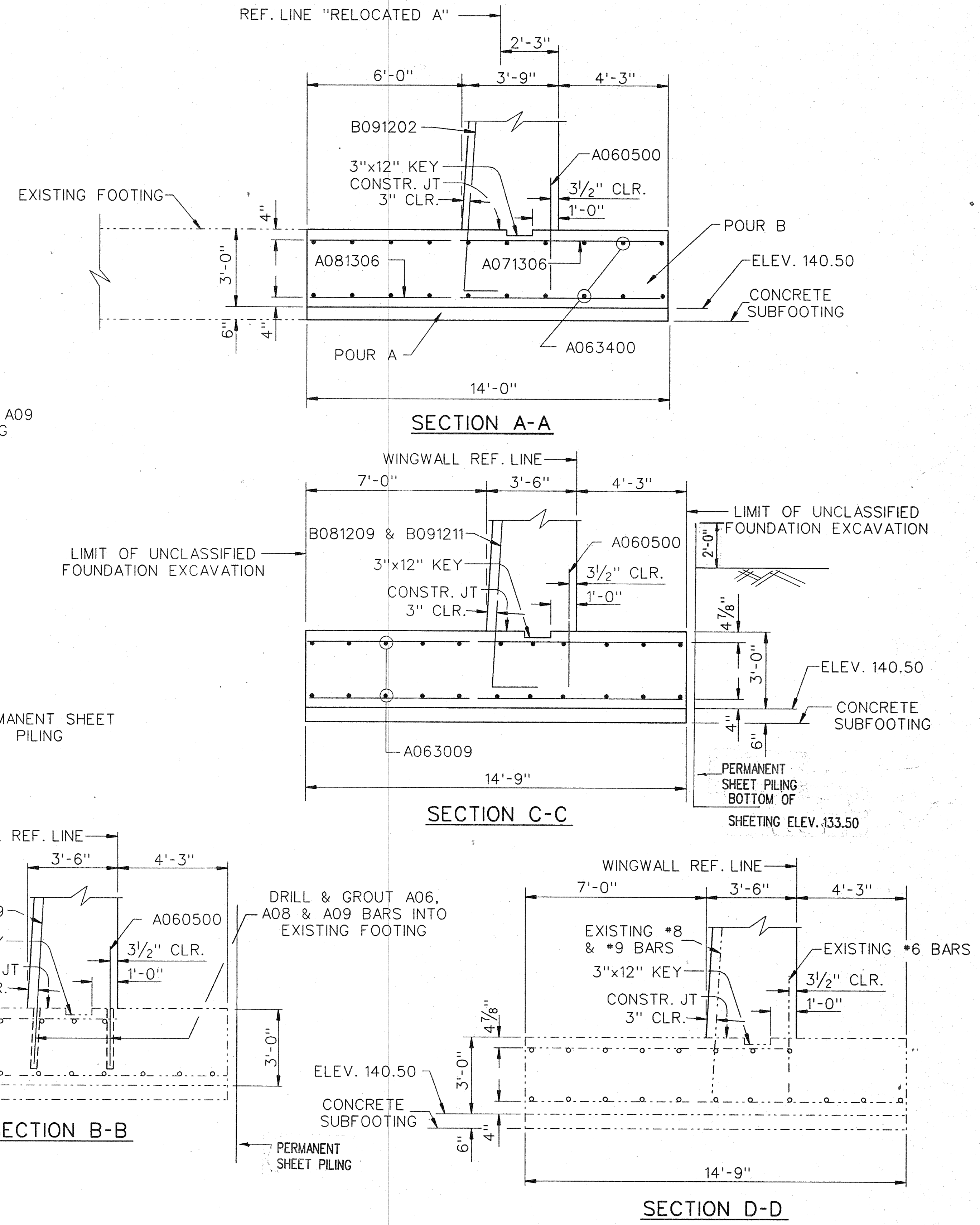
FOOTING PLAN-ABUTMENT B

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
UNCLASSIFIED FOUNDATION EXCAVATION	CYD	345.9
PERMANENT SHEET PILING	SHT	1,086
EXPANSION ANCHORED BOLTS, 3/4"	EACH	32

SUBFOOTING CONCRETE QUANTITY		
POUR	LOCATION	CYD
A	SUBFOOTING	24.6

SUBSTRUCTURE CONCRETE QUANTITY		
POUR	LOCATION	CYD
B	FOOTING	147.5

NOTES:
 ABUTMENT FOOTING IS DESIGNED FOR 2800 PSF AVERAGE DEAD LOAD PRESSURE AND 3200 PSF DEAD LOAD PLUS LIVE LOAD PRESSURE.
 FOOTINGS ARE TO BE POURED AGAINST UNDISTURBED SOIL. NO ALLOWANCE WILL BE MADE IN CONCRETE QUANTITIES DUE TO EXCAVATION OUTSIDE OF THE FOOTING NEAT LINES.
 CONSTRUCTION JOINTS IN FOOTINGS ARE OPTIONAL.
 "EXPANSION ANCHORED BOLTS" OF THE SIZE INDICATED SHALL BE CHOSEN FROM THE LIST OF PREQUALIFIED MATERIALS IN THE CURRENT MDOT MATERIAL SAMPLING GUIDE.
 THE 3/4" Ø INCH EXPANSION BOLTS SHALL PROVIDE A MINIMUM PULLOUT RESISTANCE OF 7,500 LBS. AT 1/32" SLIPPAGE.
 FOR REMOVAL OF EXISTING PERFORATED DRAIN PIPE AND PROPOSED 8" PERFORATED DRAIN PIPE LOCATION SEE SHEET NO. 32.
 B.F. DENOTES BACK FACE.
 F.F. DENOTES FRONT FACE.



SECTION A-A

SECTION C-C

SECTION B-B

SECTION D-D

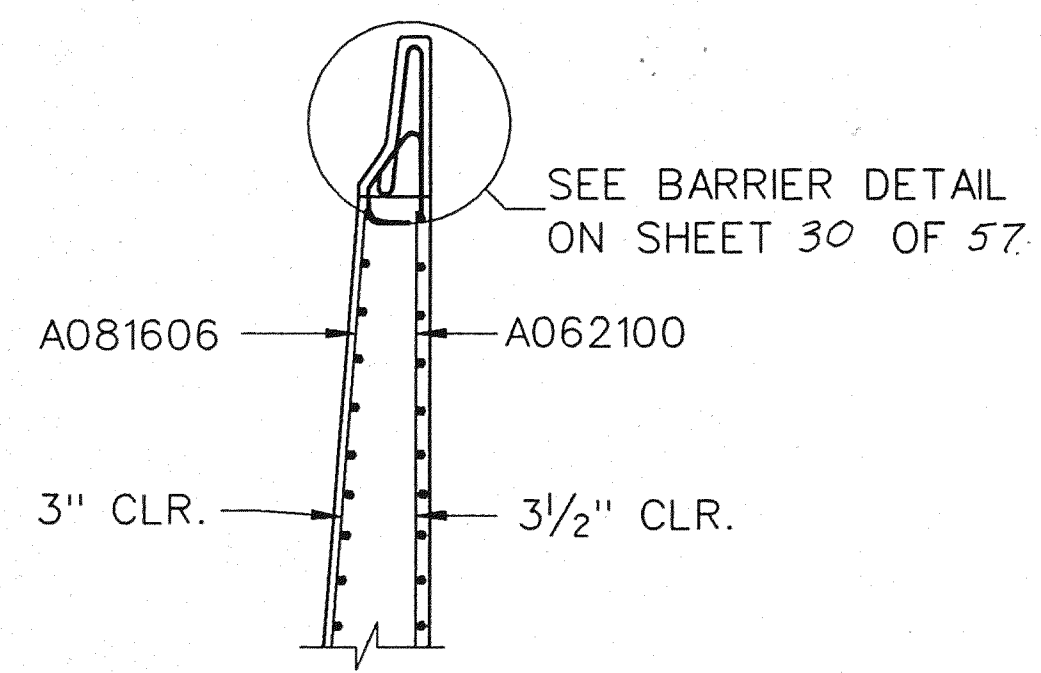
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 ABUTMENT B - FOOTING DETAILS

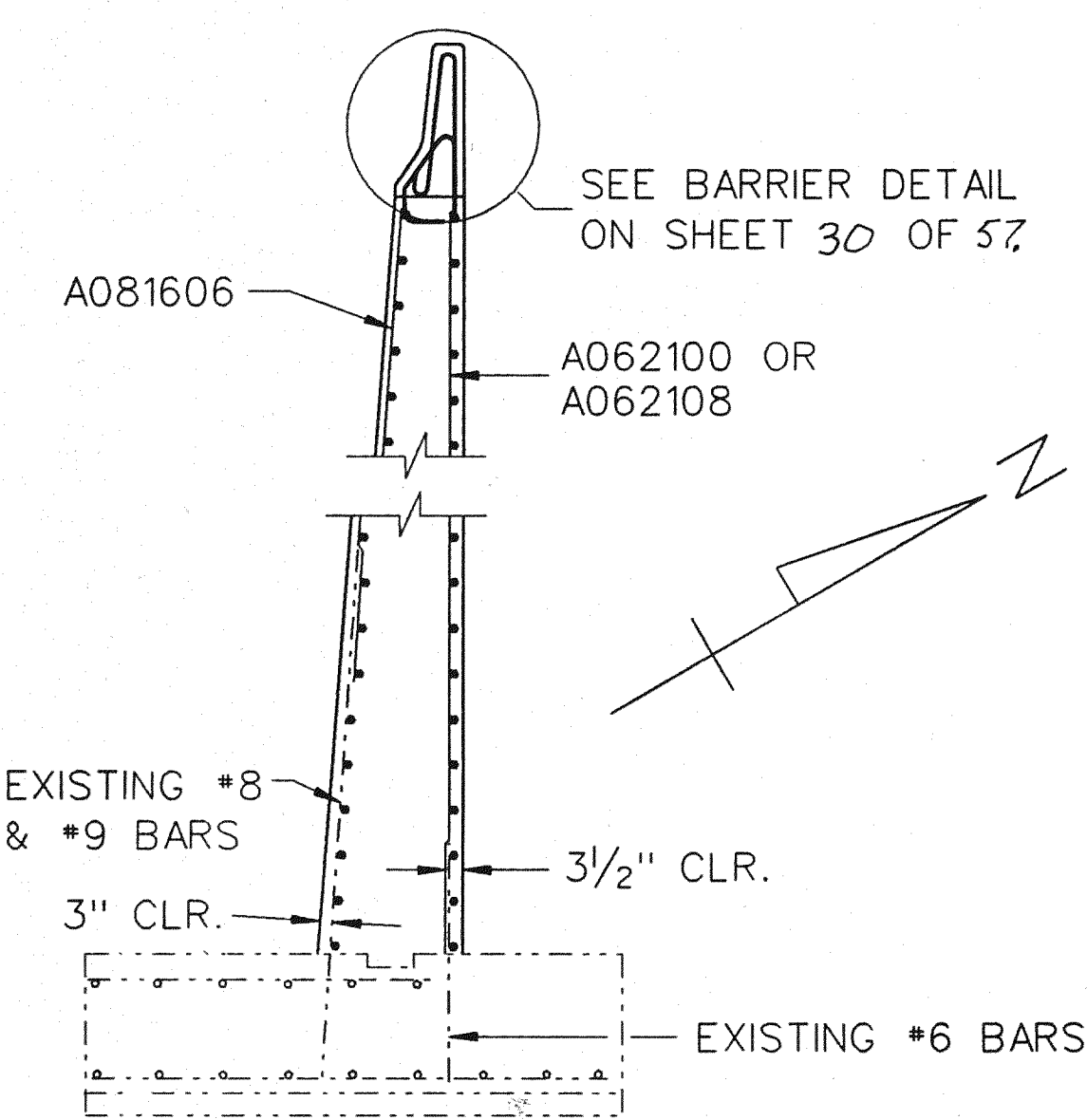
REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE

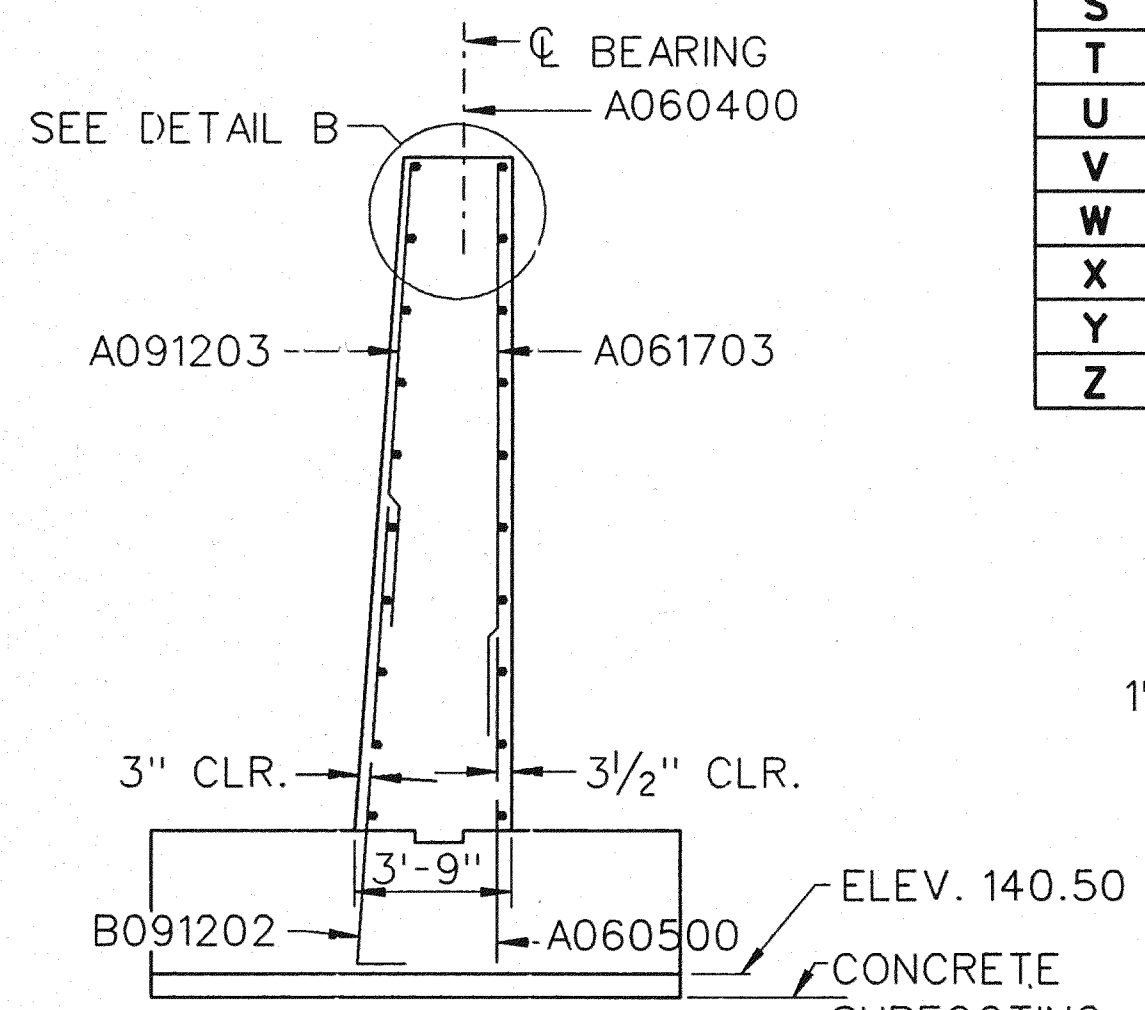
CHECKED BY: NAME RAD DATE 2/94
 SHEET 31 OF 57
 B01 of 82-22-48



SECTION B-B

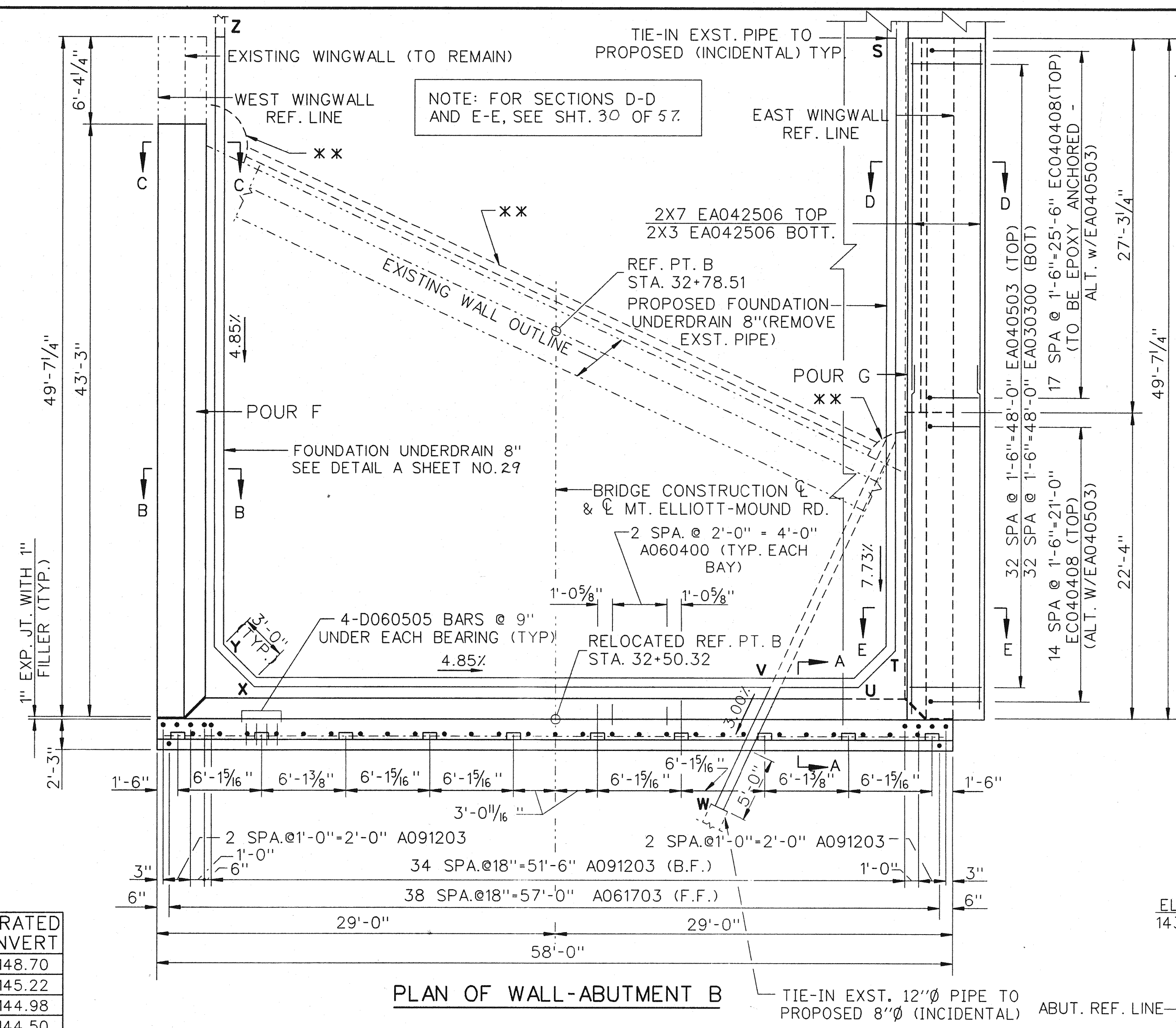


SECTION C-C

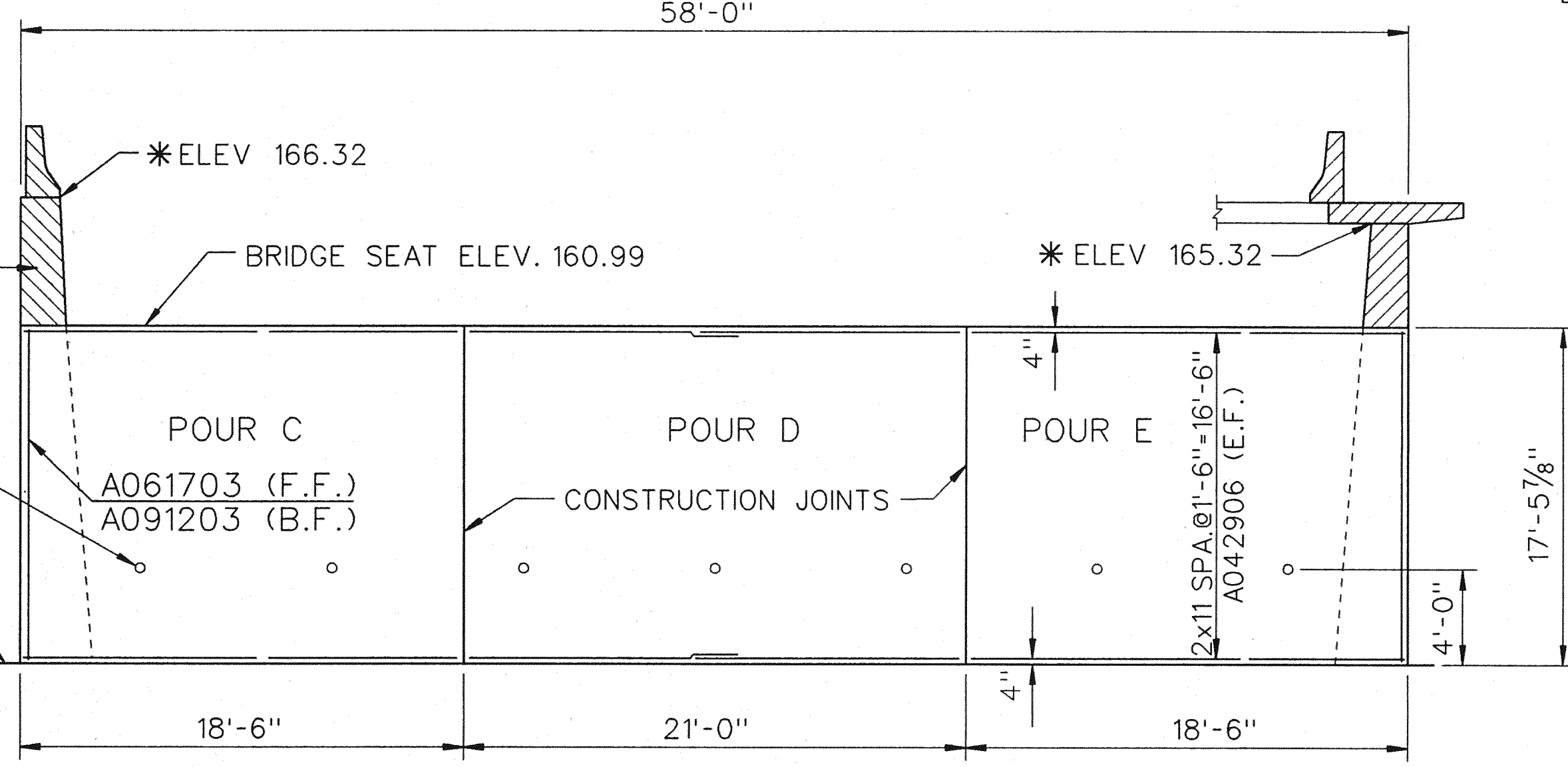


SECTION A-A

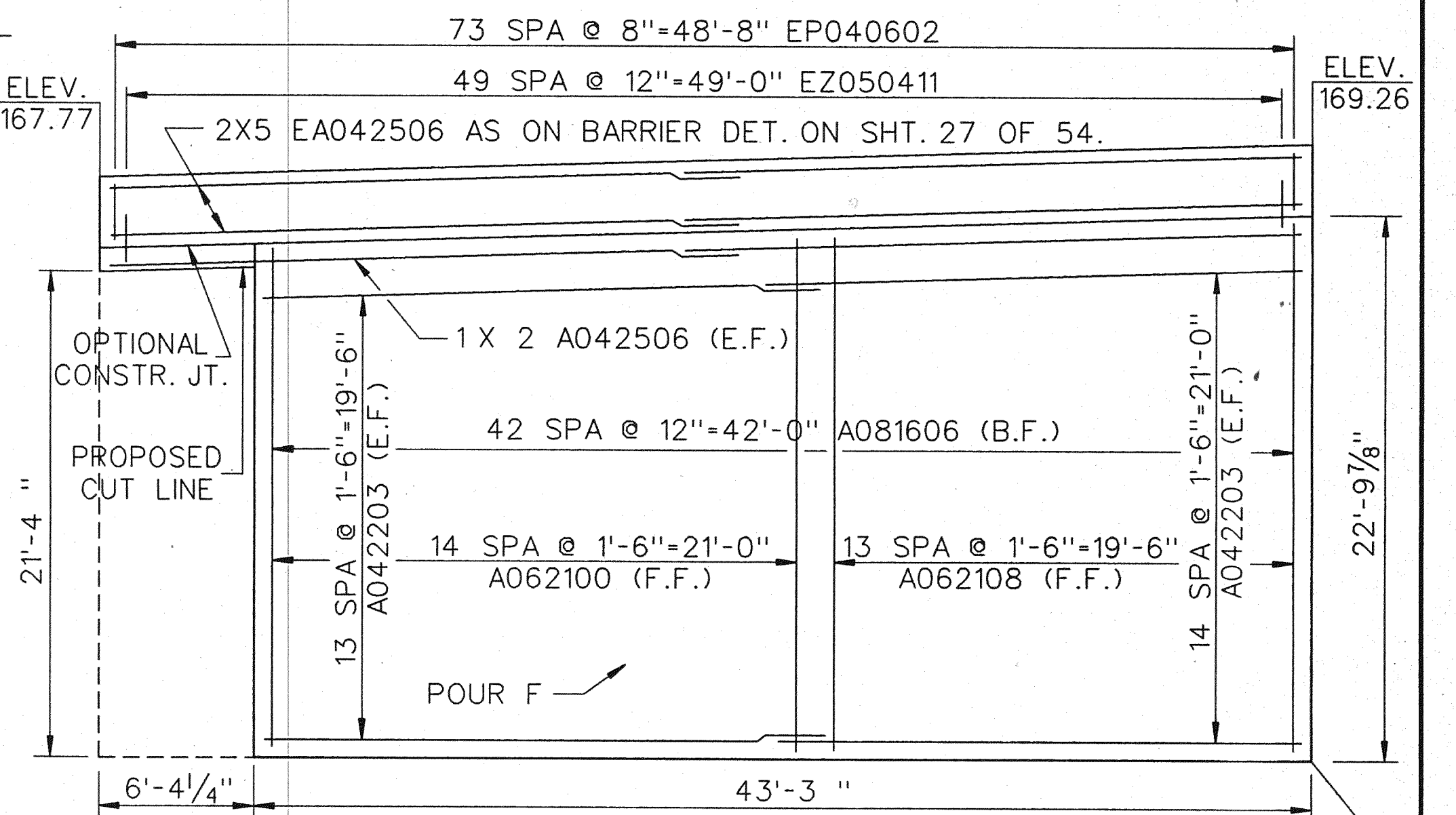
PERFORATED PIPE INVERT	ELEVATION
S	148.70
T	145.22
U	144.98
V	144.50
W	144.19
X	146.37
Y	146.51
Z	148.70



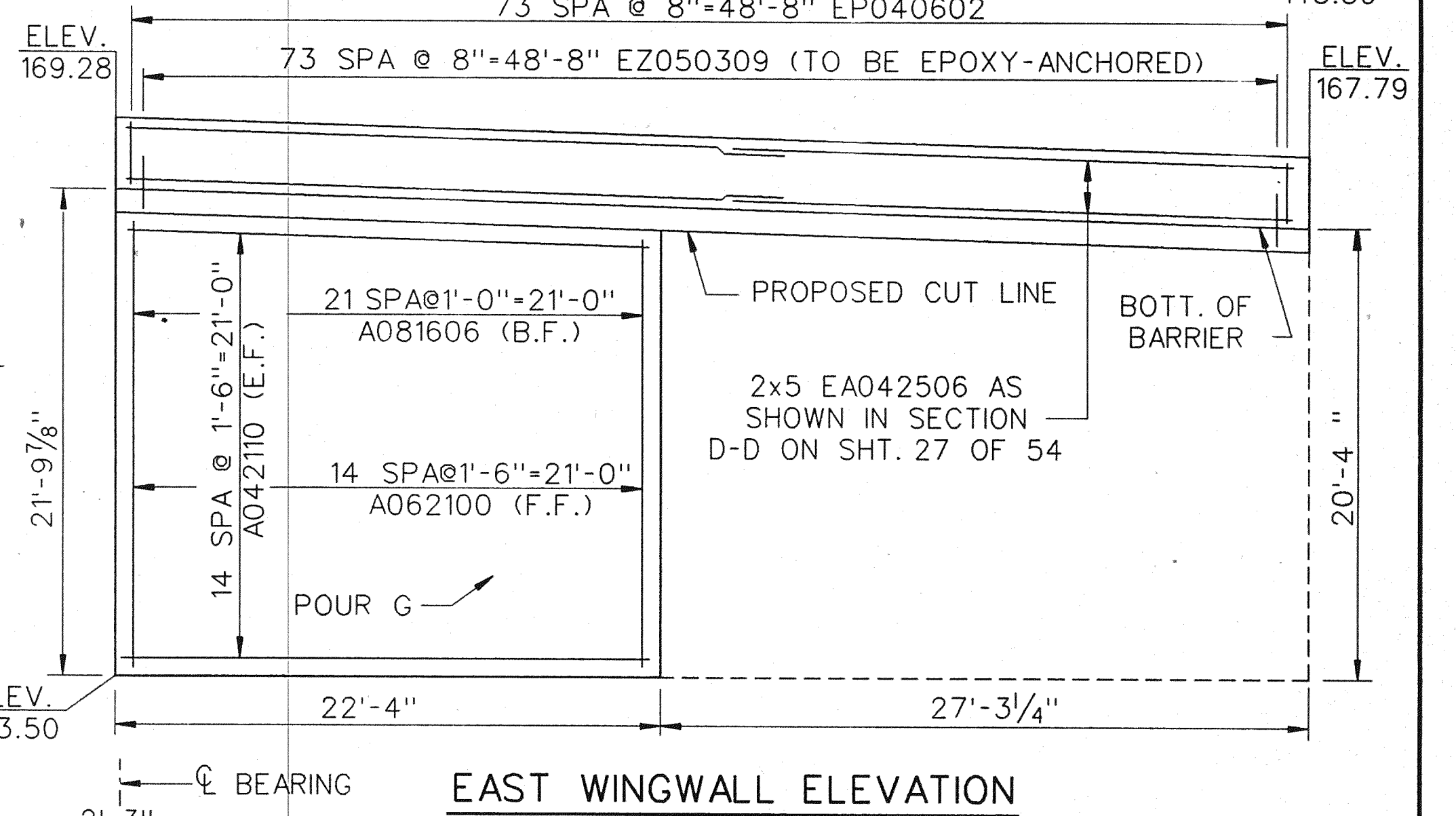
PLAN OF WALL-ABUTMENT B



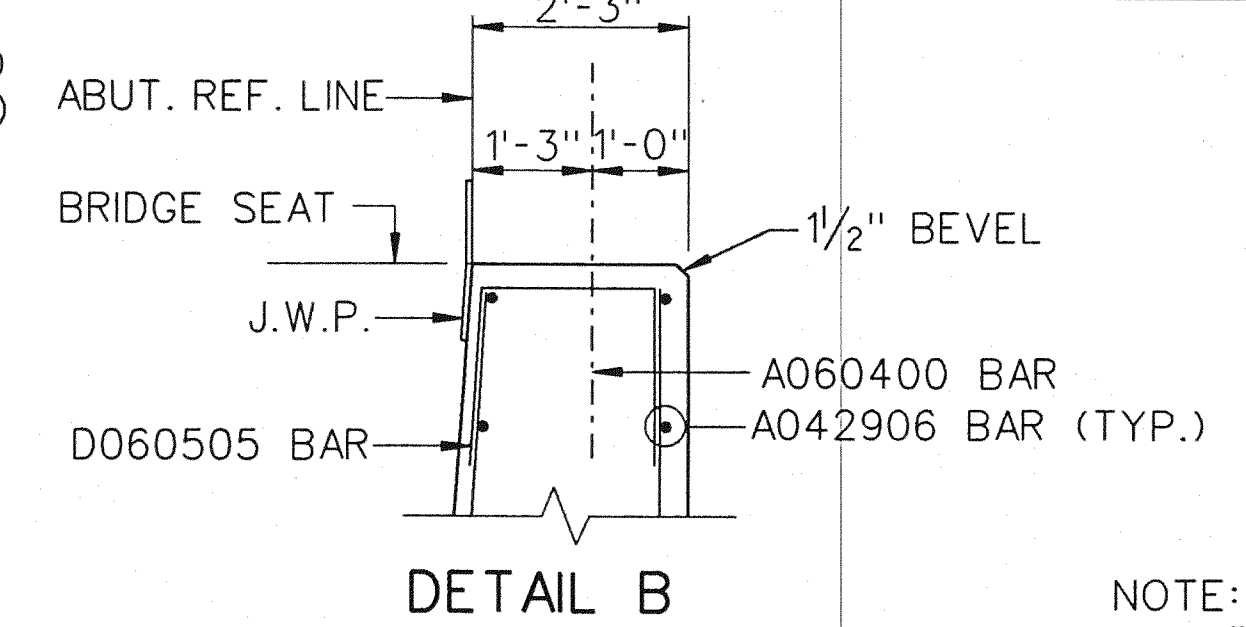
ELEVATION-ABUTMENT B



WEST WINGWALL ELEVATION



EAST WINGWALL ELEVATION



DETAIL B

SUBSTRUCTURE CONCRETE QUANTITIES		
POUR	LOCATION	CYD
C	ABUT. STEM	36.0
D	ABUT. STEM	40.8
E	ABUT. STEM	36.0
F	WW. STEM	90.4
G	WW. STEM & SW	55.3
TOTAL		259

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	99.2
EPOXY ANCHORING OF VERTICAL BAR, 1/2"	EACH	18
EPOXY ANCHORING OF VERTICAL BAR, 5/8"	EACH	49
FOUNDATION UNDERDRAIN, 8"	LFT	152

NOTE:
 BARRIER ON WEST WINGWALL TO BE PLACED AT THE TIME OF THE RETAINING WALL BARRIER ON EAST WINGWALL TO BE PLACED AT THE TIME OF THE RETAINING WALL SIDEWALK.
 ** EXISTING MANHOLE NO. 3 AND 4 AND 8" PERFORATED PIPE (TO BE REMOVED) COST INCIDENTAL TO REMOVAL OF EXISTING STRUCTURE.
 * ELEVATIONS GIVEN ARE ALONG REFERENCE LINE B

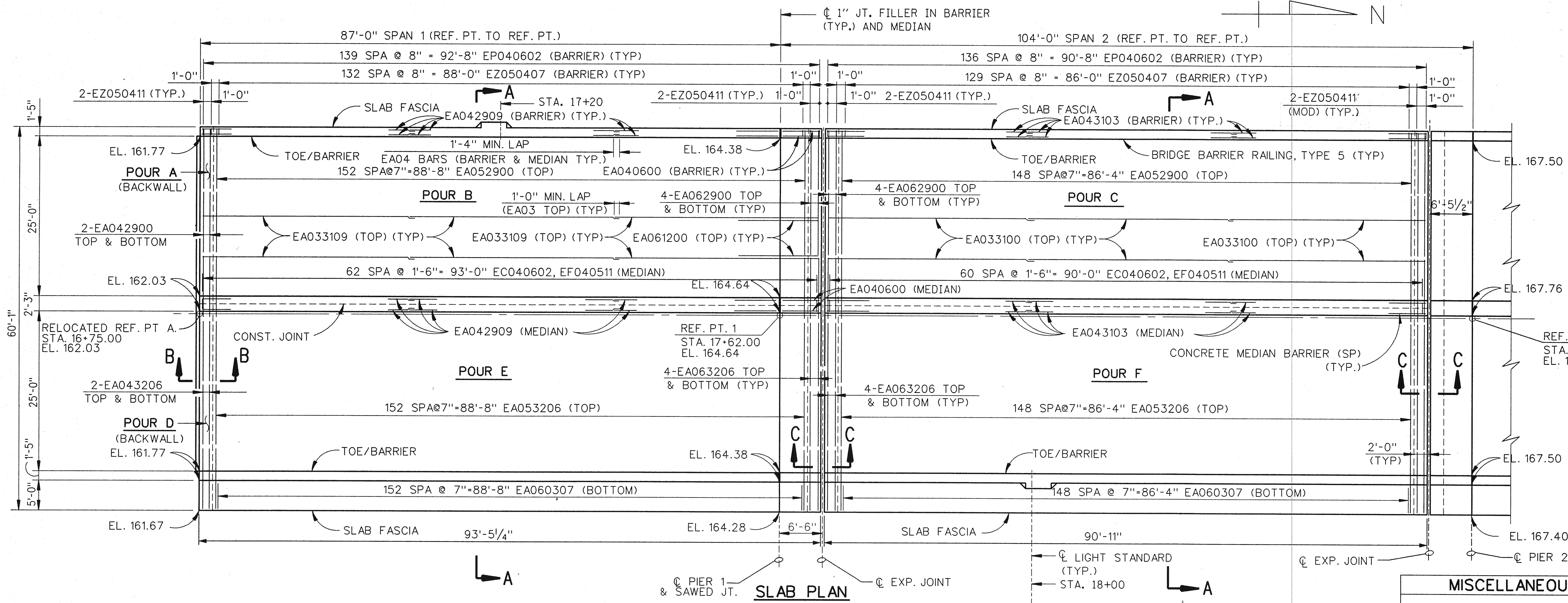
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 ABUTMENT B - WALL DETAILS

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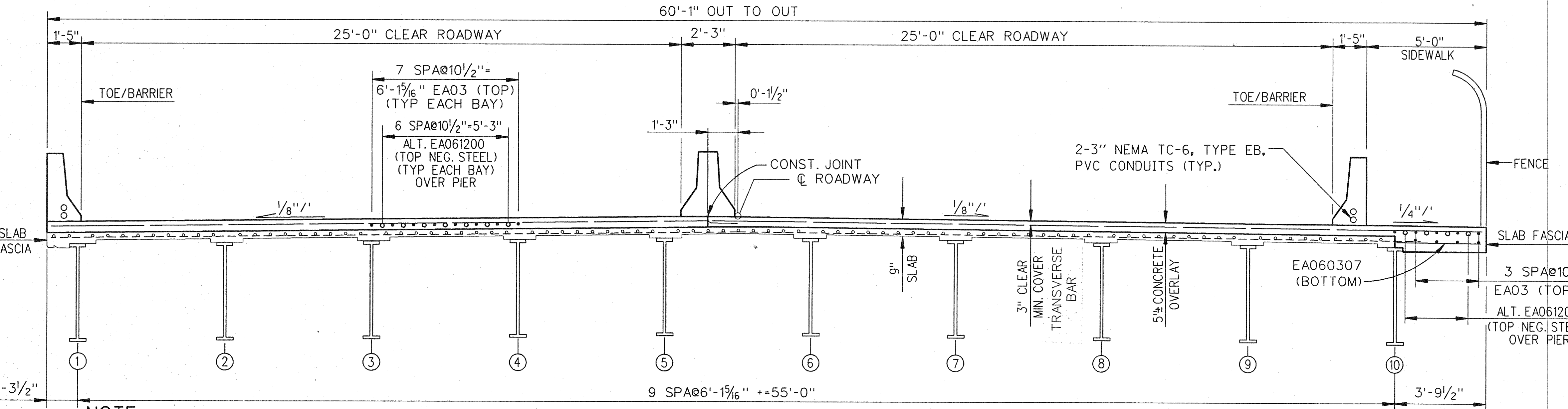
REVISIONS			
NO.	DESCRIPTION	DATE	BY

SHEET 32 OF 57			
NO.	DESCRIPTION	DATE	BY

SHEET NO. 33
JOB NO. 822248
SECTION B01 OF 822248



SUPERSTRUCTURE CONCRETE QUANTITIES	
POUR	AMT (CYDS)
A	7.2
B	41.3
C	40.5
D	8.5
E	55.4
F	54.3
TOTAL CONC.: 207.2	



MISCELLANEOUS QUANTITIES			
ITEM	UNIT	AMOUNT	
		SPAN 1	SPAN 2
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	186.9	181.8
CONCRETE MEDIAN BARRIER (SP.)	LFT	93.4	90.9
SCARIFYING	SYD	598.2	582.5
HYDRODEMOLISHING - FIRST PASS	SYD	598.2	582.5
HYDRODEMOLISHING - SECOND PASS	SYD	6.9	6.7
CONSTRUCTING BRIDGE DECK SURFACE	SYD	559.8	544.4
FALSE DECKING	SYD	380.0	0

NOTES:
 WORK THIS SHEET WITH SHEETS 34 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.

SECTION A-A
SCREED ELEVATIONS

ABT. A	1/4	1/2	3/4	PIER 1 EXPJT	1/4	1/2	3/4	EXPJT PIER 2			
WEST BARRIER	161.77	162.42	163.08	163.73	164.38	164.58	165.26	165.94	166.63	167.31	167.50
MEDIAN WEST	162.03	162.68	163.34	163.99	164.64	164.84	165.52	166.20	166.89	167.57	167.76
CONST. JT.	162.03	162.68	163.34	163.99	164.64	164.84	165.52	166.20	166.89	167.57	167.76
MEDIAN EAST	162.03	162.68	163.34	163.99	164.64	164.84	165.52	166.20	166.89	167.57	167.76
EAST BARRIER	161.77	162.42	163.08	163.73	164.38	164.58	165.26	165.94	166.63	167.31	167.50

NOTES:
 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.

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

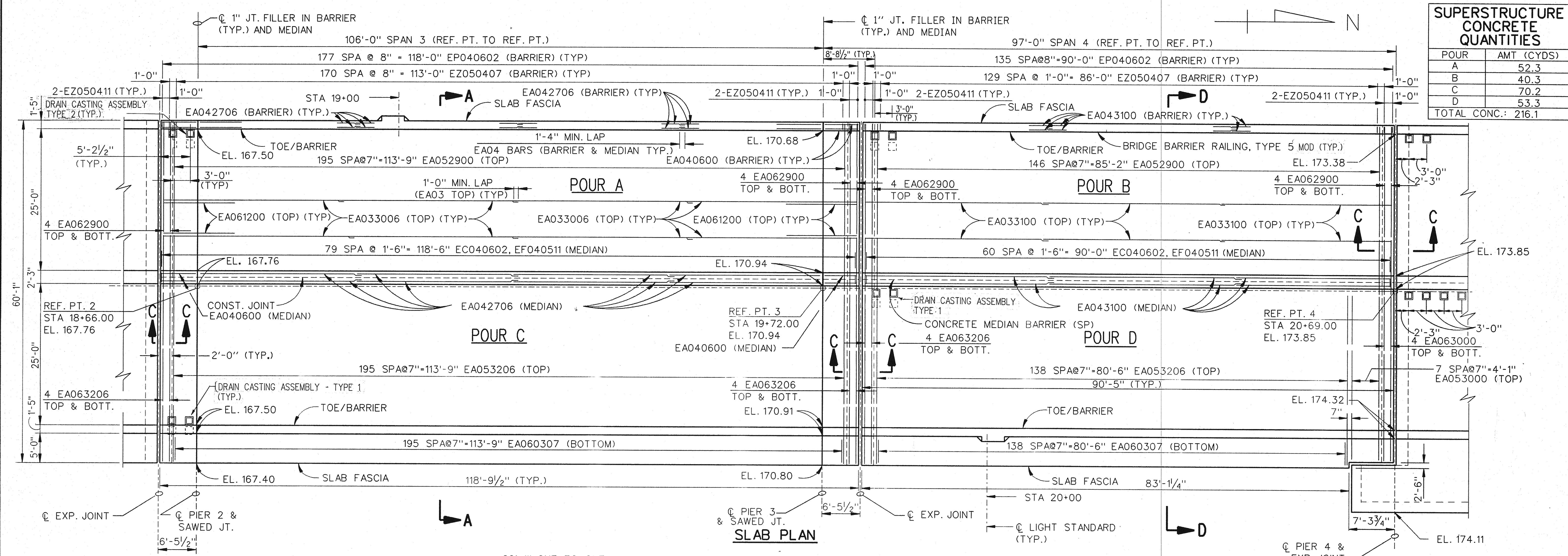
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NO.	DESCRIPTION	DATE	BY

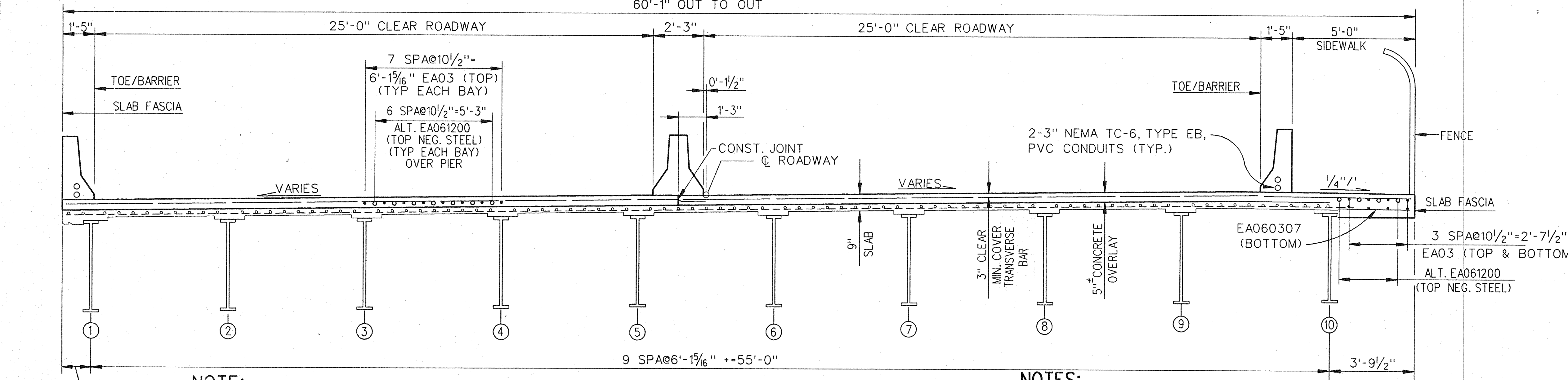
SQUAD BOSS	NAME	RAL
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET 33 OF 57		

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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.

NOTE:
 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

	EXPJPT	PIER 2	1/4	1/2	3/4	PIER 3	EXPJPT	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	169.88	170.91	171.10	171.93	172.72	173.52	174.32

NOTES:
 WORK THIS SHEET WITH SHEETS 26, 27, 33, AND 35 THUR 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.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

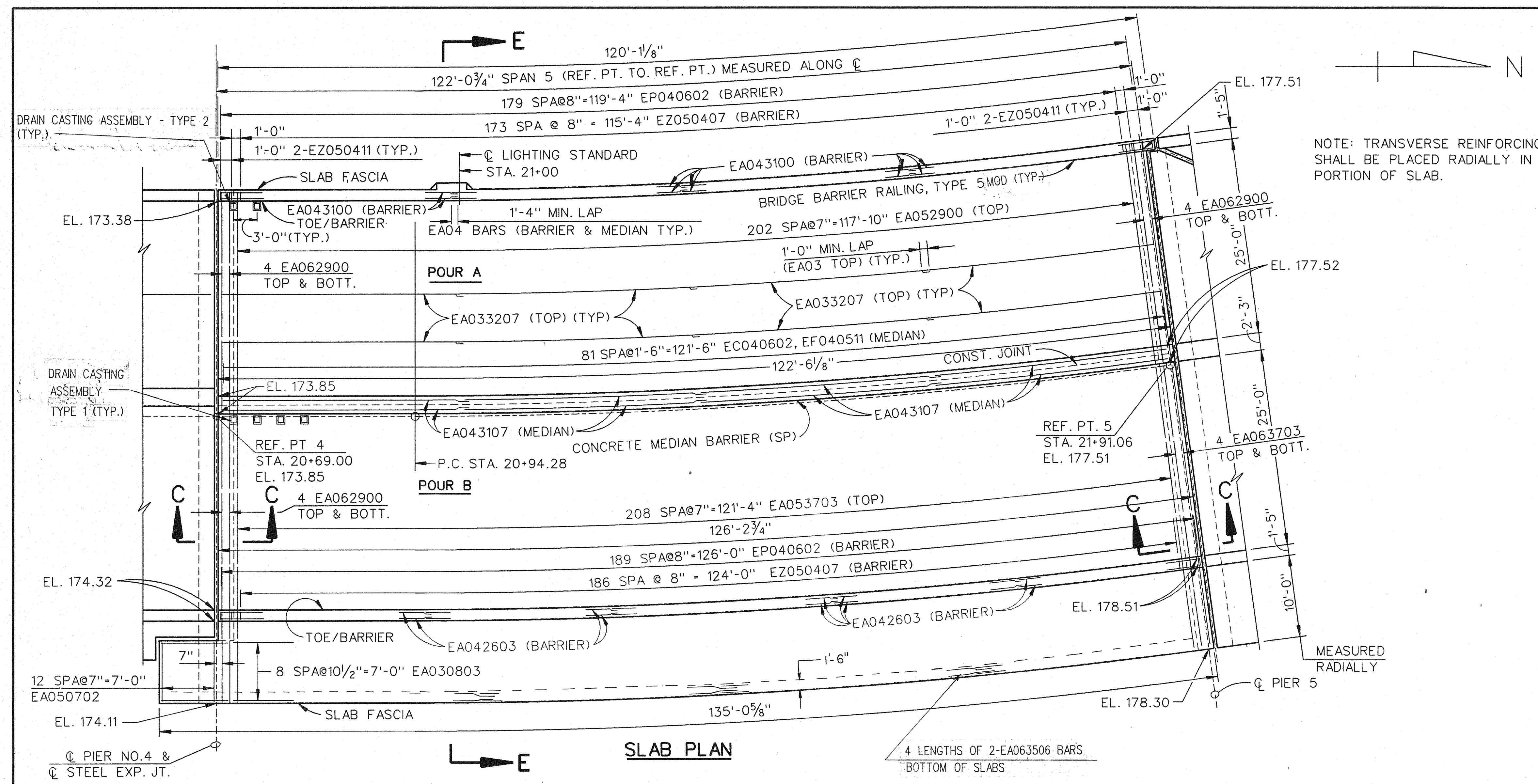
THE CITY OF DETROIT
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 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SUPERSTRUCTURE DETAILS

SQUAD BOSS	NAME	RAL	DATE	6/93
DRAWN BY	NAME	WTA	DATE	6/93
CHECKED BY	NAME	HME	DATE	1/94
SHEET	34	OF	57	

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CENTRAL SECTION B01 OF 822248 JOB NO. 35

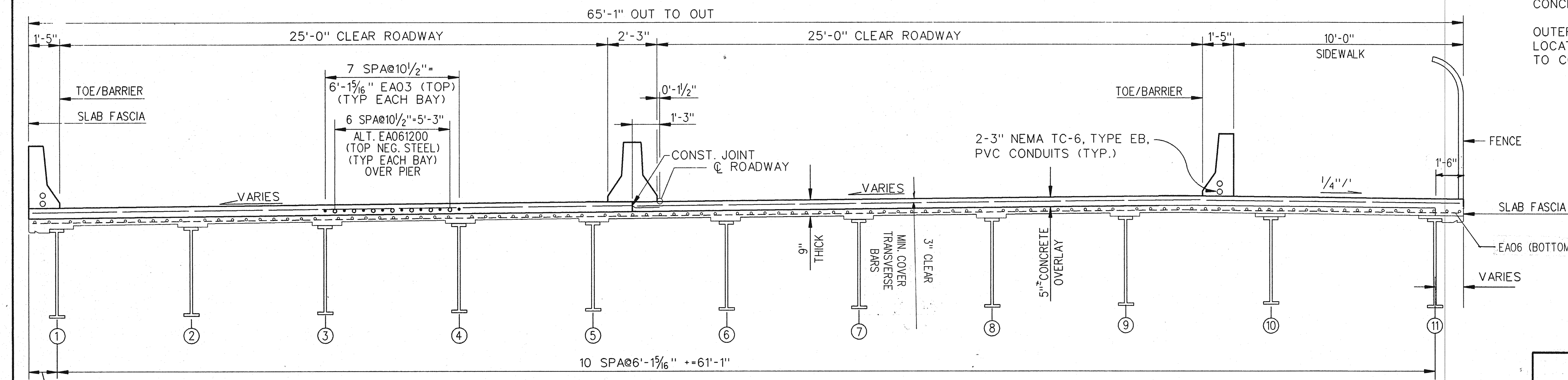


MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	246.3
CONCRETE MEDIAN BARRIER (SP.)	LFT	122.5
SCARIFYING	SYD	882.3
HYDRODEMOLISHING - FIRST PASS	SYD	882.3
HYDRODEMOLISHING - SECOND PASS	SYD	40.6
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	4
CONSTRUCTING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

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

NOTES:
 WORK THIS SHEET WITH SHEETS 26, 27, 33, 34 AND 36 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.



SECTION E-E

	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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NO.	DESCRIPTION	DATE	BY

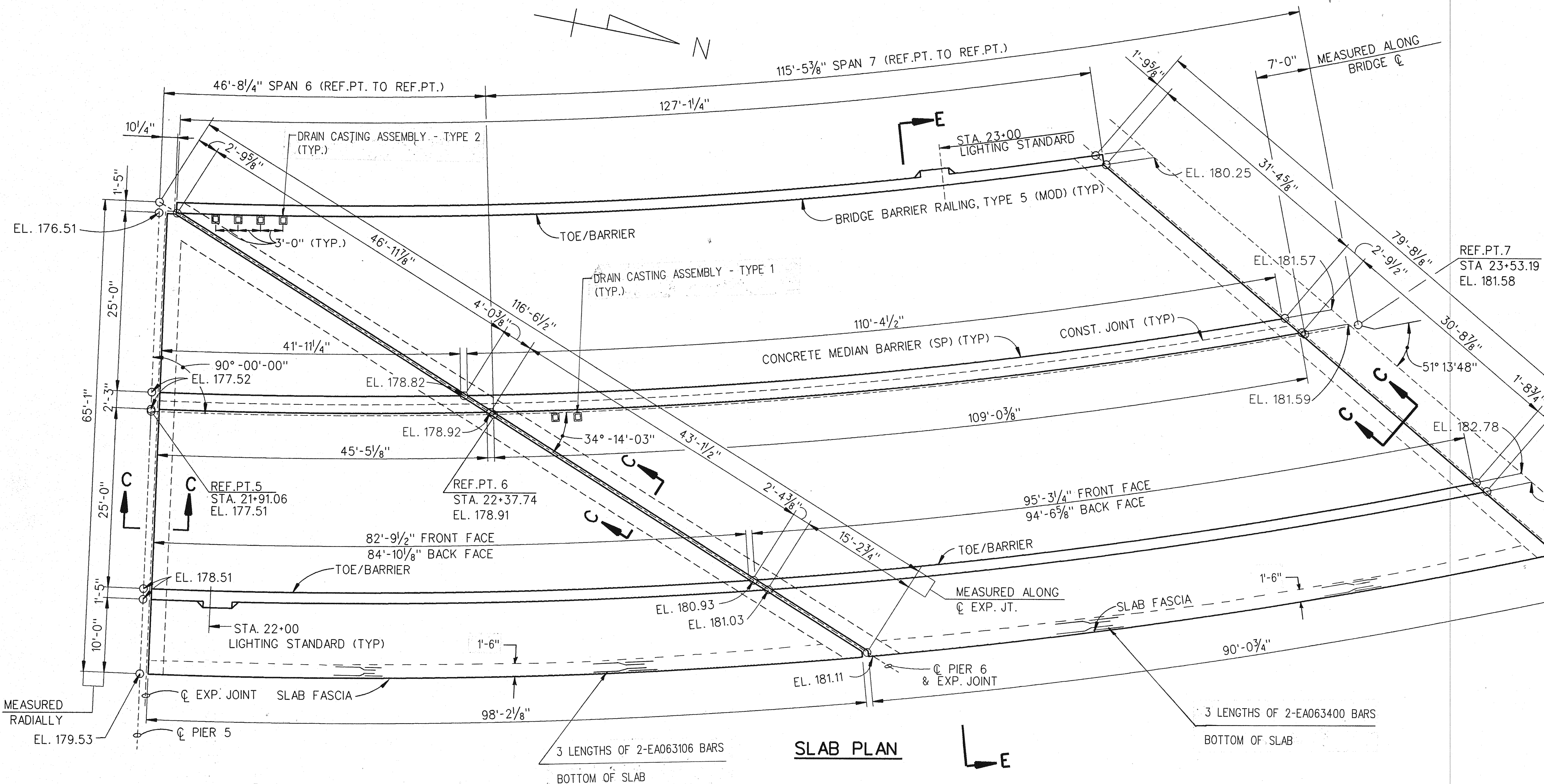
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 SUPERSTRUCTURE DETAILS

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET 35 OF 57		

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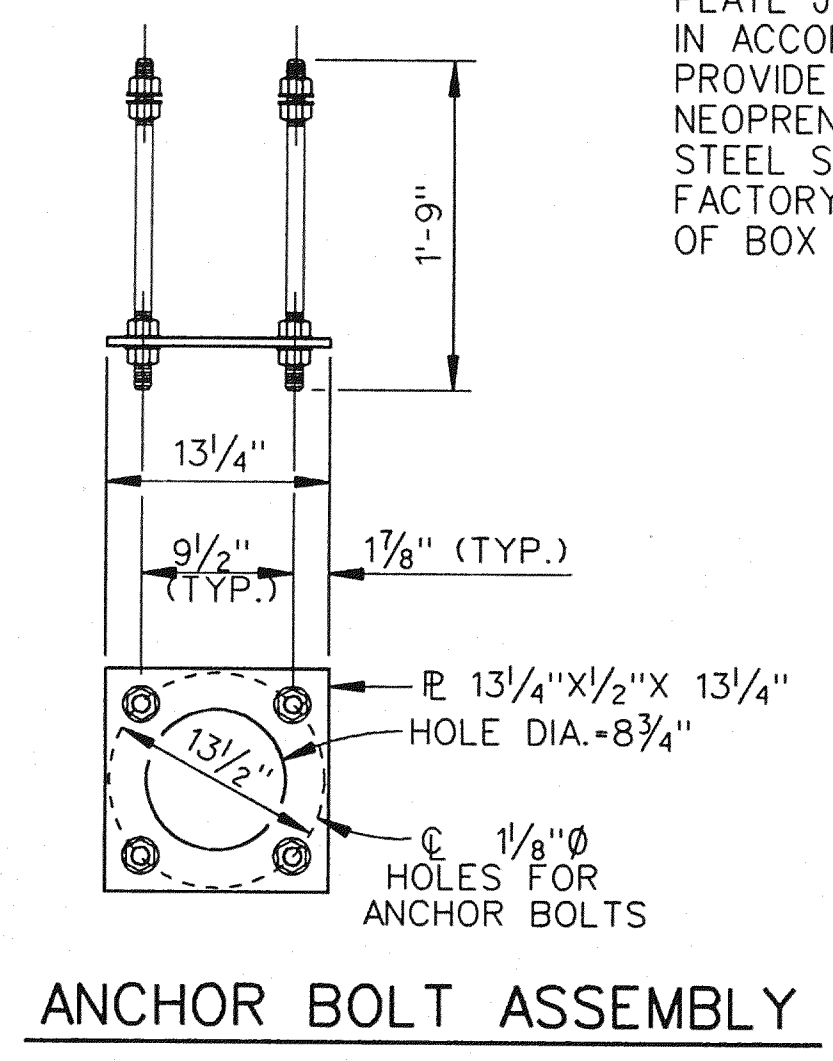
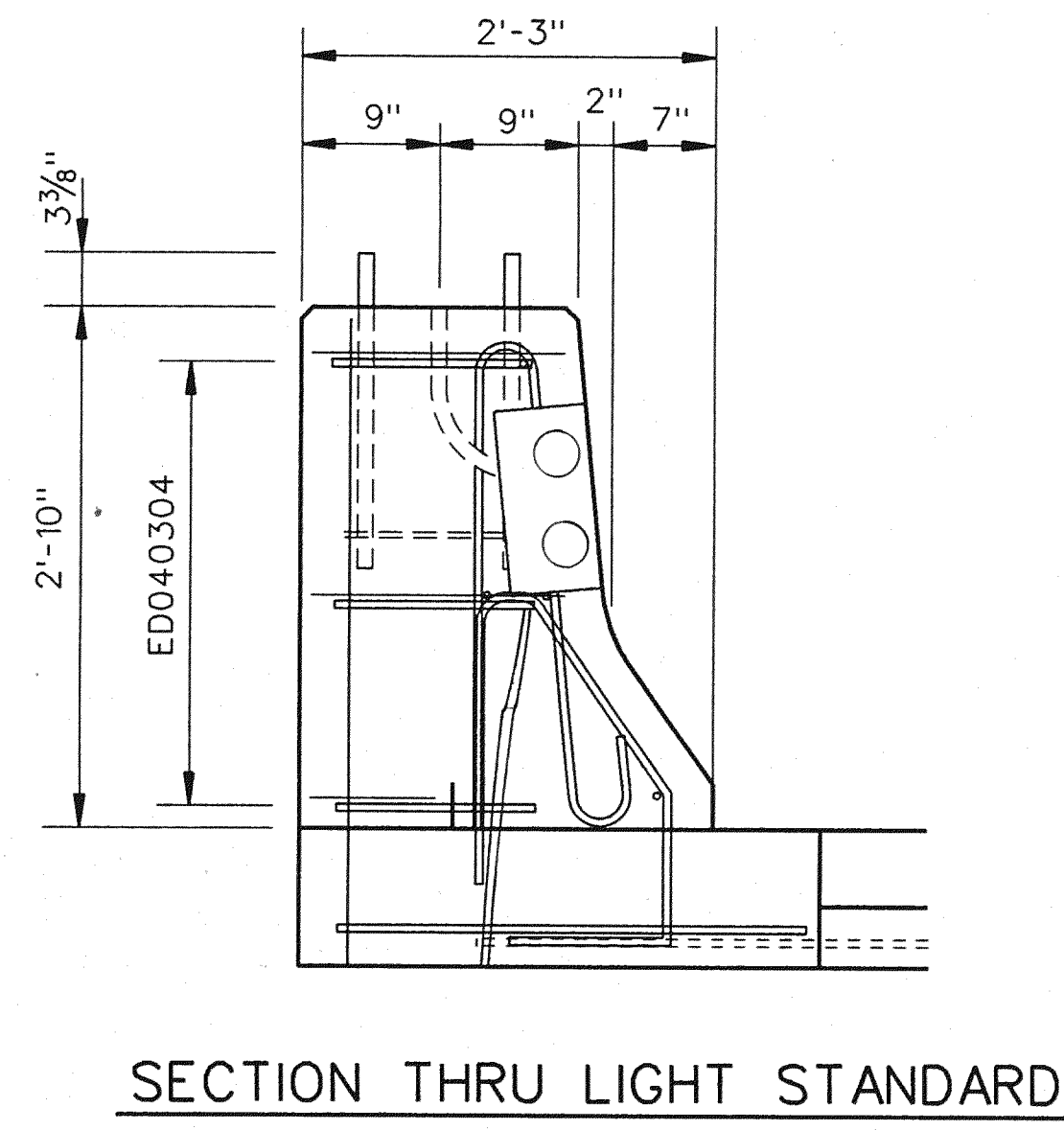
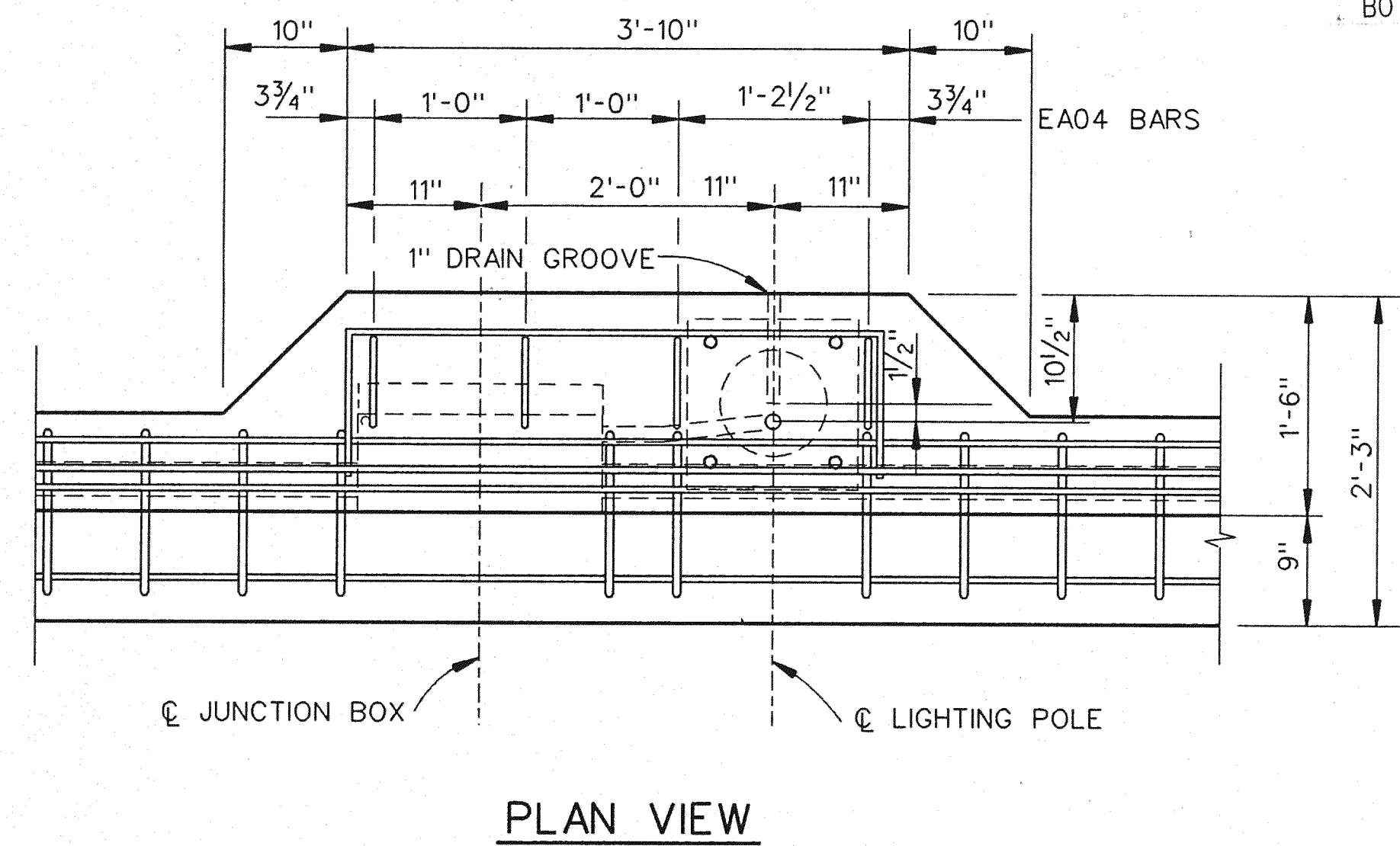
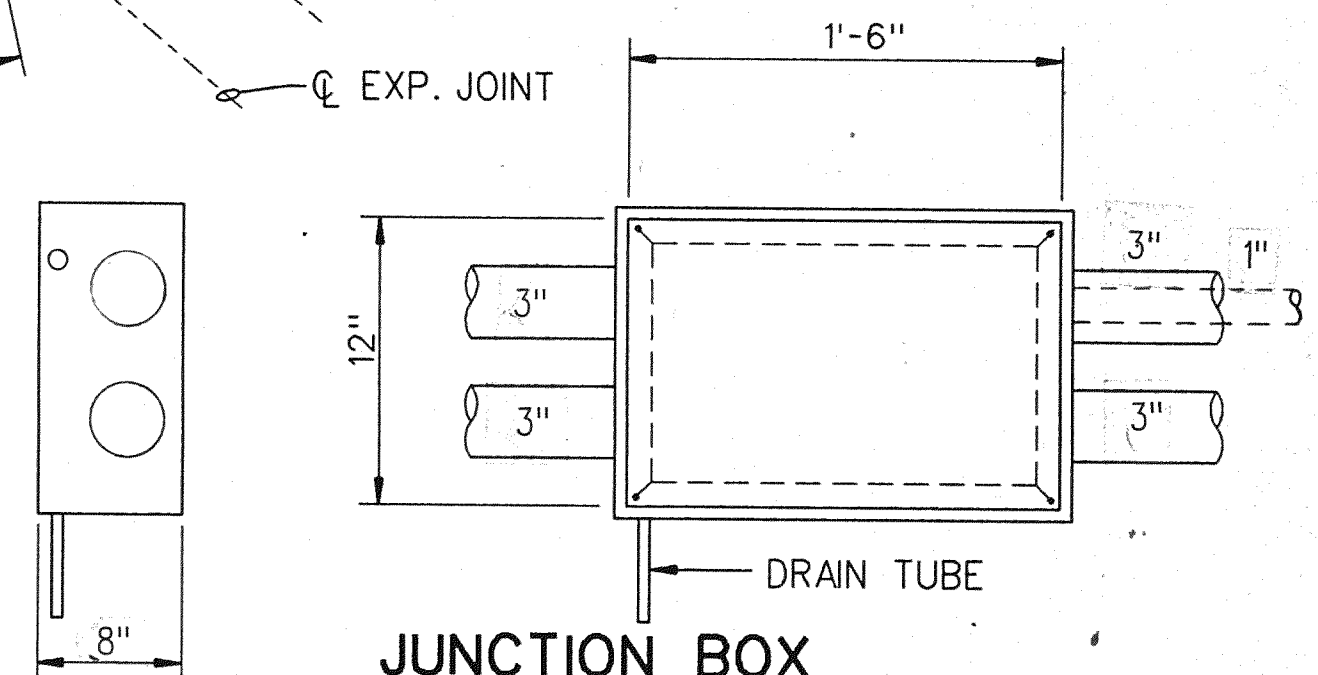
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MISCELLANEOUS QUANTITIES			
ITEM	UNIT	AMOUNT	
		SPAN 6	SPAN 7
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	82.8	219.4
CONCRETE MEDIAN BARRIER (SP.)	LFT	45.4	110.4
SCARIFYING	SYD	367.8	776.0
HYDRODEMOLISHING - FIRST PASS	SYD	367.8	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.

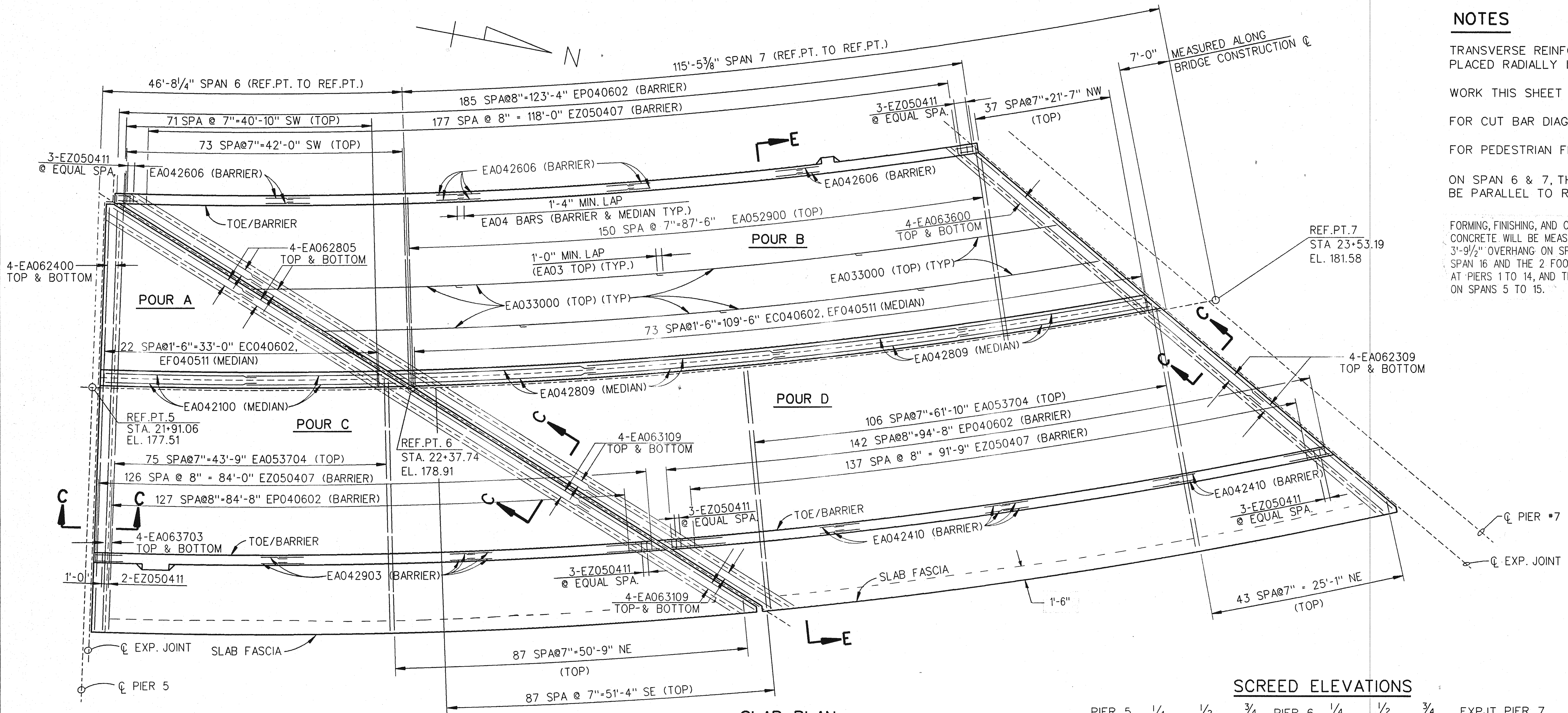
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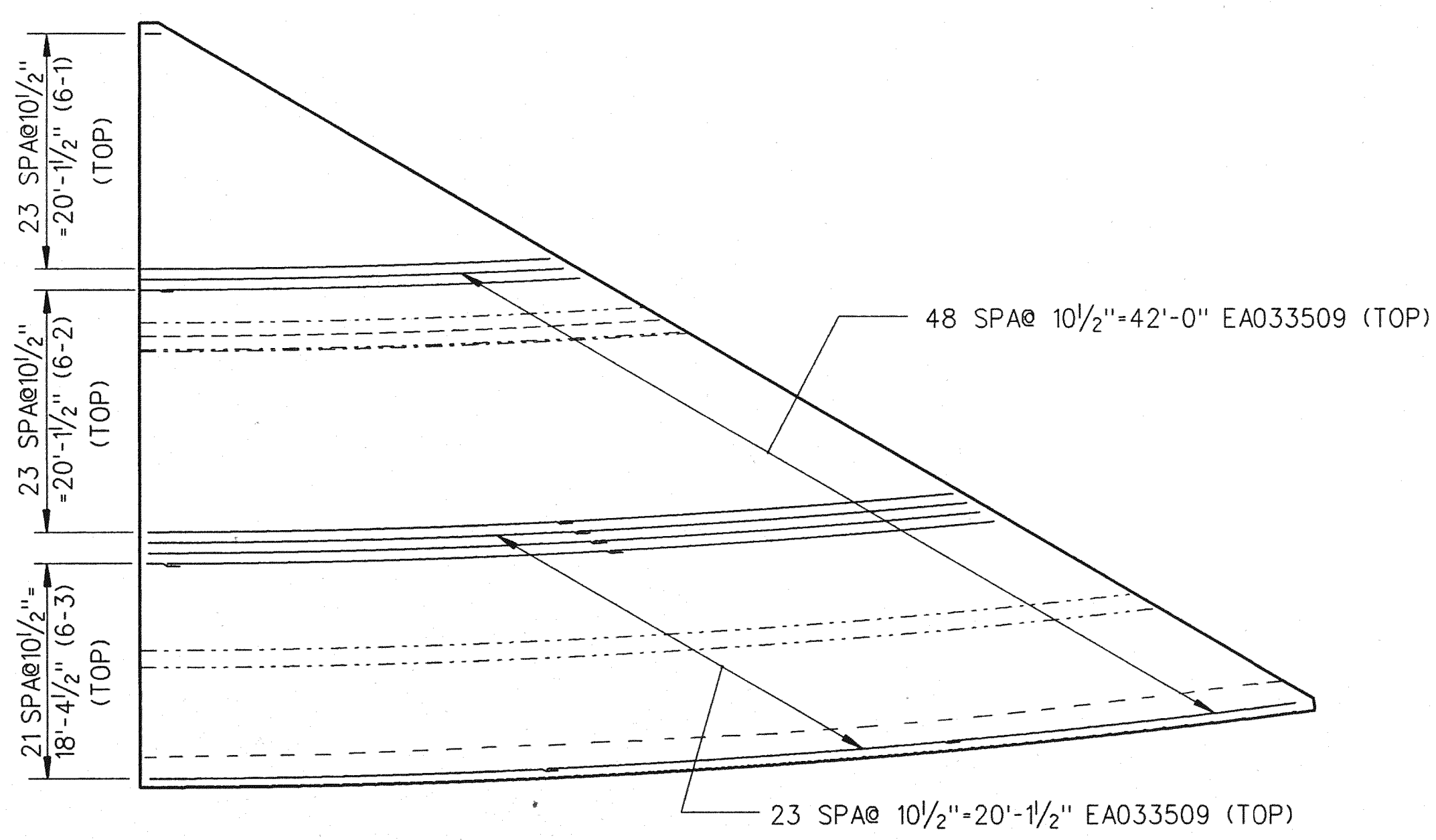
REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME WTA	DATE 6/93
CHECKED BY	NAME HME	DATE 1/94
SHEET 36 OF 57		

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SLAB PLAN



SLAB PLAN

NOTES

TRANSVERSE REINFORCING STEEL SHALL BE PLACED RADIALLY IN CURVED PORTION OF SLAB.
 WORK THIS SHEET WITH SHEET 26, 27, 33, THRU 36, AND 38 THRU 51.
 FOR CUT BAR DIAGRAM, SEE SHEET 39.
 FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS 52 & 53.
 ON SPAN 6 & 7, THE TRANSVERSE FINISHING SHALL BE PARALLEL TO REFERENCE LINES.
 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

	PIER 5	1/4	1/2	3/4	PIER 6	1/4	1/2	3/4	EXPJT	PIER 7
WEST BARRIER	176.51	-	-	-	176.60	177.74	178.67	179.51	180.15	180.25
MEDIAN WEST	177.51	177.84	178.16	178.49	178.81	179.64	180.40	181.01	181.47	181.56
CONST. JT.	177.51	177.85	178.19	178.53	178.86	179.69	180.43	181.03	181.49	181.57
MEDIAN EAST	177.51	177.86	178.21	178.56	178.91	179.73	180.46	181.05	181.50	181.58
EAST BARRIER	178.51	179.11	179.71	180.31	180.93	181.53	182.04	182.44	182.73	182.78

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

REVISIONS			
NO.	DESCRIPTION	DATE	BY

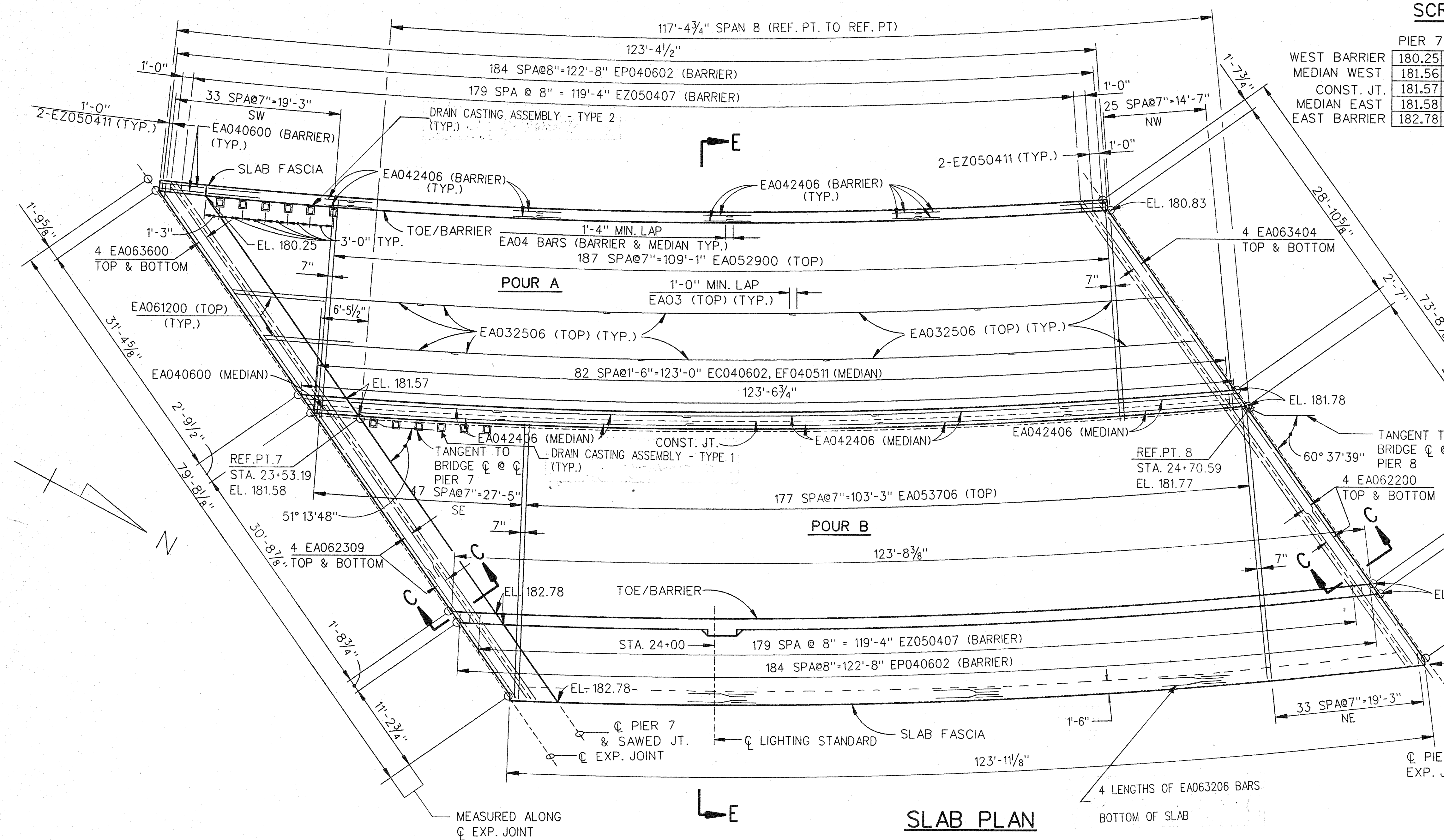
SQUAD BOSS	NAME	DATE

CHECKED BY	NAME	DATE

SHEET 37 OF 57
B01 of 82-22-48

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



SCREED ELEVATIONS

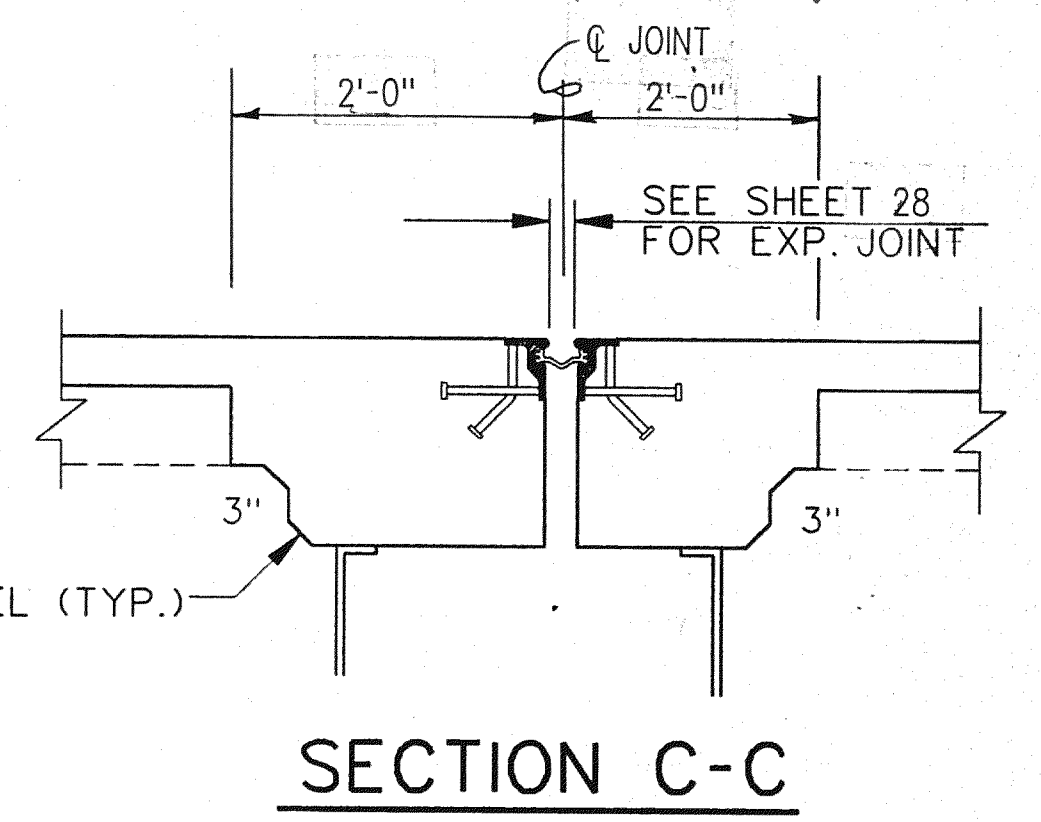
PIER 7	1/4	1/2	3/4	PIER 8	
WEST BARRIER	180.25	180.70	180.91	180.94	180.83
MEDIAN WEST	181.56	181.84	181.95	181.89	181.77
CONST. JT.	181.57	181.84	181.95	181.88	181.77
MEDIAN EAST	181.58	181.85	181.95	181.88	181.77
EAST BARRIER	182.78	182.93	182.93	182.82	182.71

SUPERSTRUCTURE CONCRETE QUANTITIES

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

MISCELLANEOUS QUANTITIES

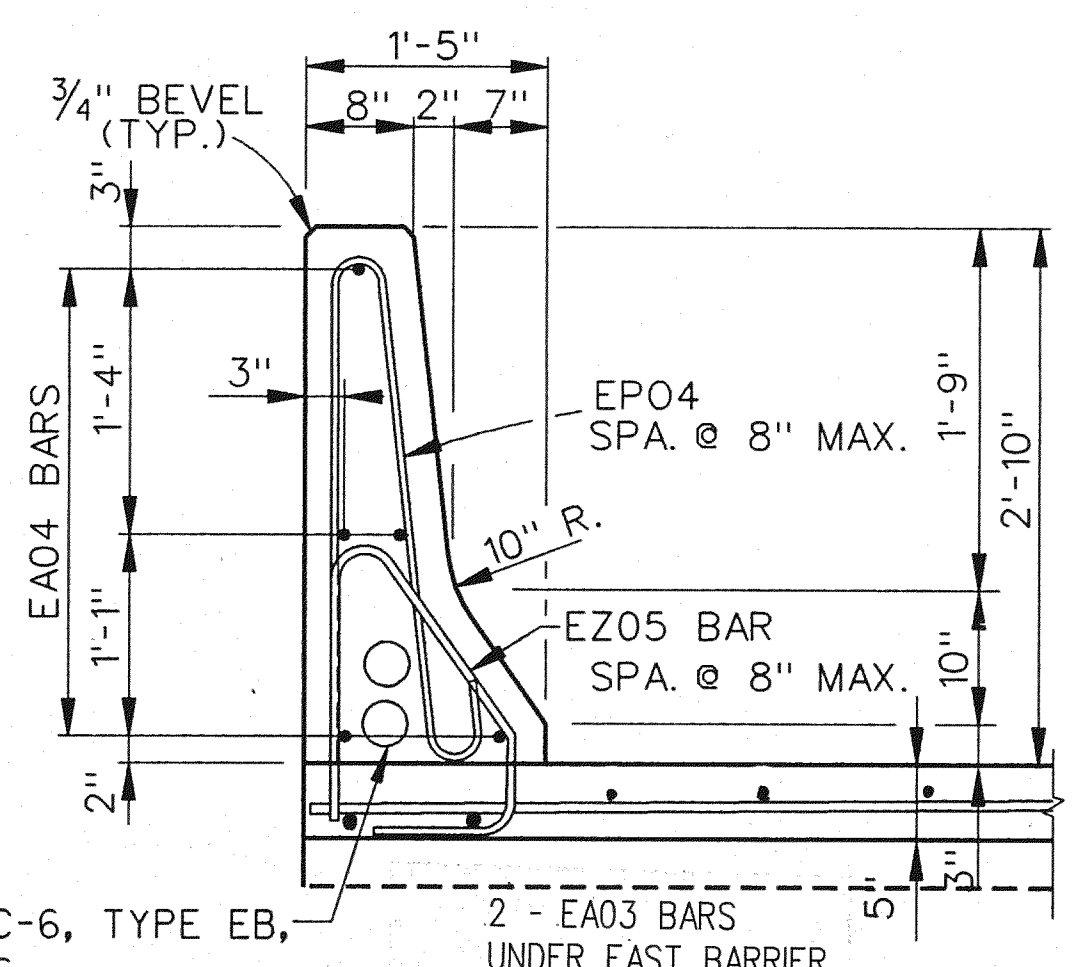
ITEM	UNIT	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	247.1
CONCRETE MEDIAN BARRIER (SP.)	LFT	123.6
SCARIFYING	SYD	890.0
HYDRODEMOLISHING - FIRST PASS	SYD	890.0
HYDRODEMOLISHING - SECOND PASS	SYD	20.5
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	6
CONSTRUCTING BRIDGE DECK SURFACE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



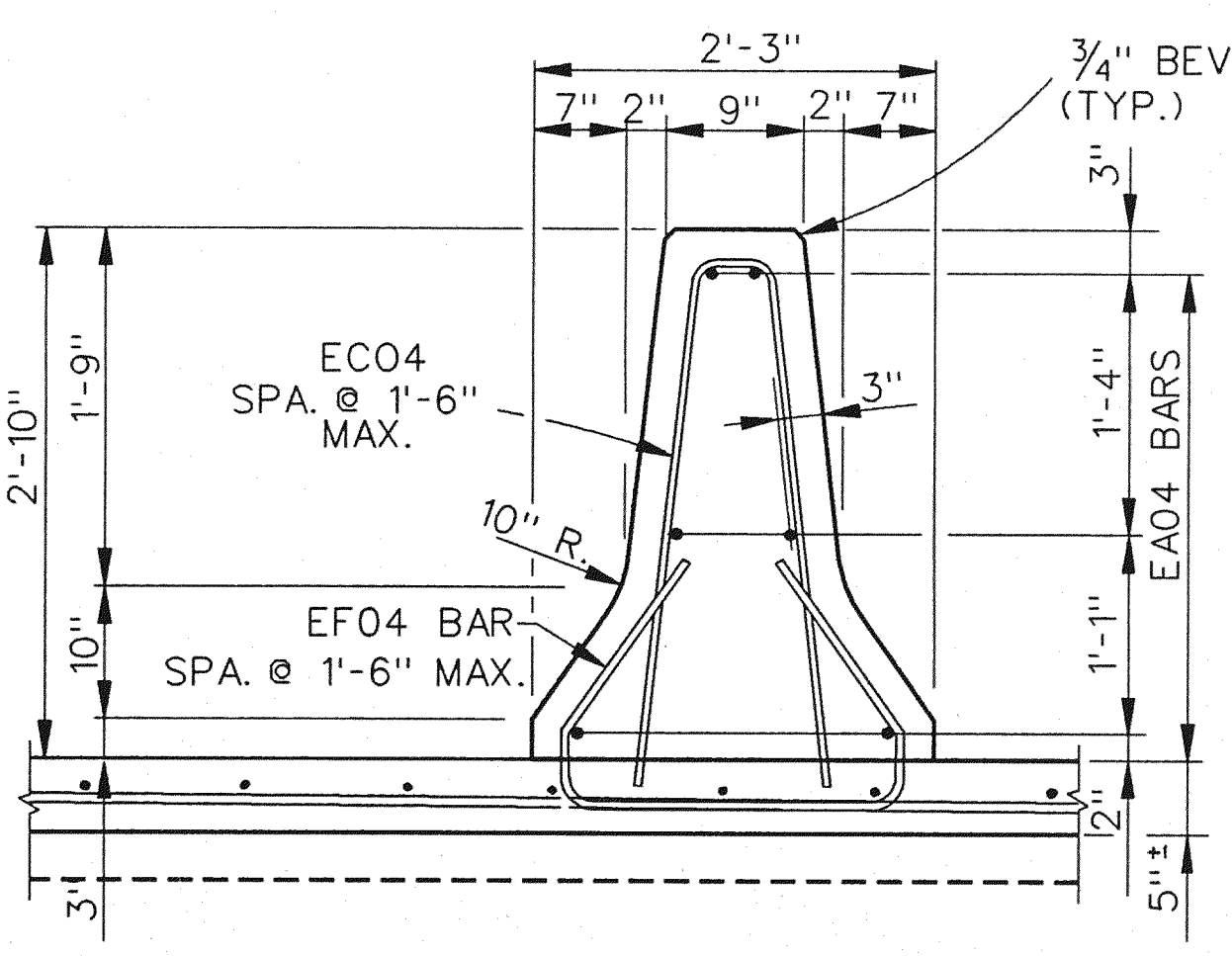
SLAB PLAN

NOTES:

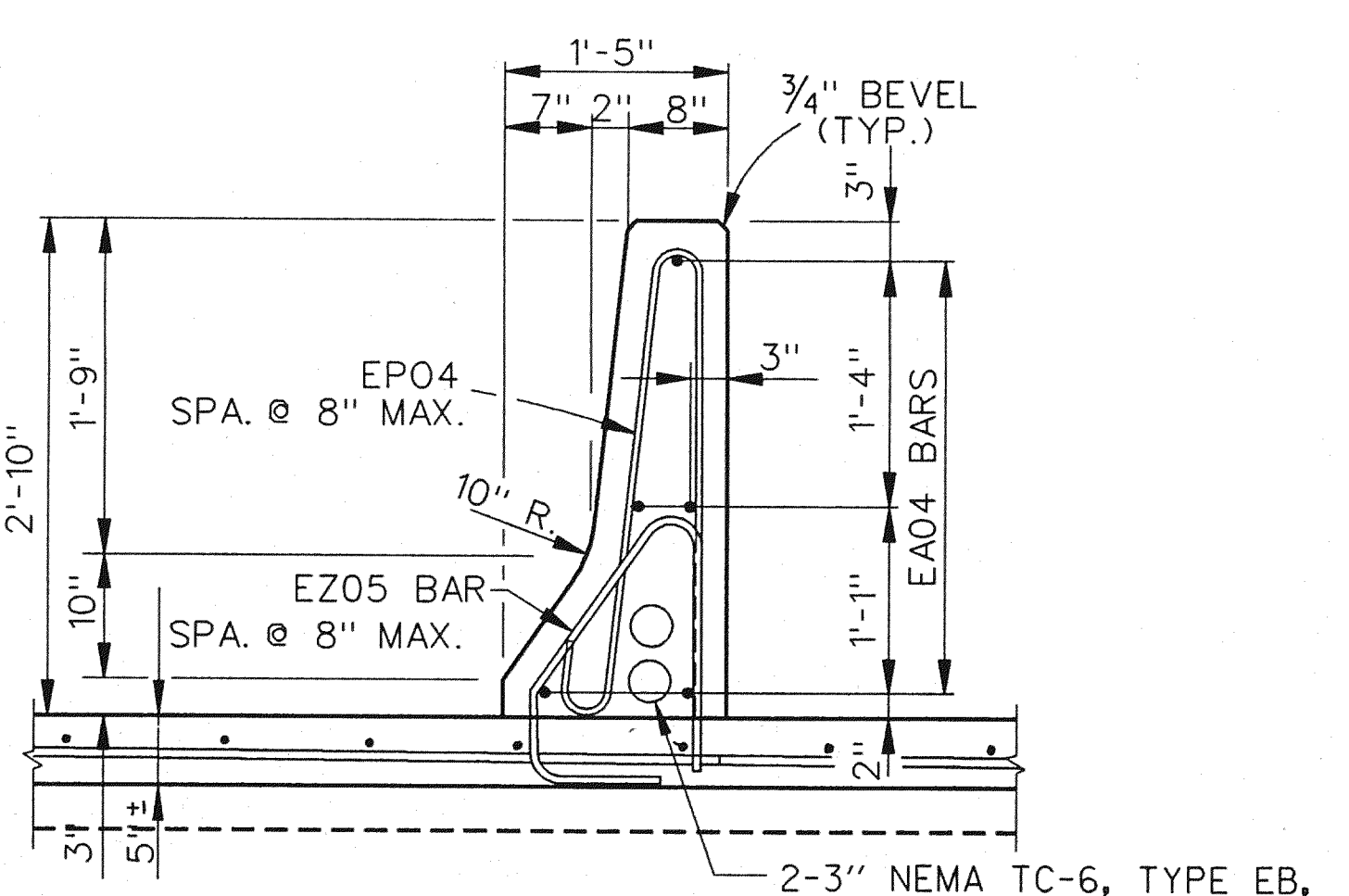
- TRANSVERSE REINFORCING STEEL SHALL BE PLACED RADIALLY IN CURVED PORTION OF SLAB.
- LONGITUDINAL STEEL SHALL BE PLACED CONCENTRIC TO BRIDGE CENTER LINE.
- WORK THIS SHEET WITH SHEETS 26, 27, 33 THRU 37 AND 39 THRU 51.
- FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS, 52 & 53.
- SCREEDS AFFECTED BY LOADS 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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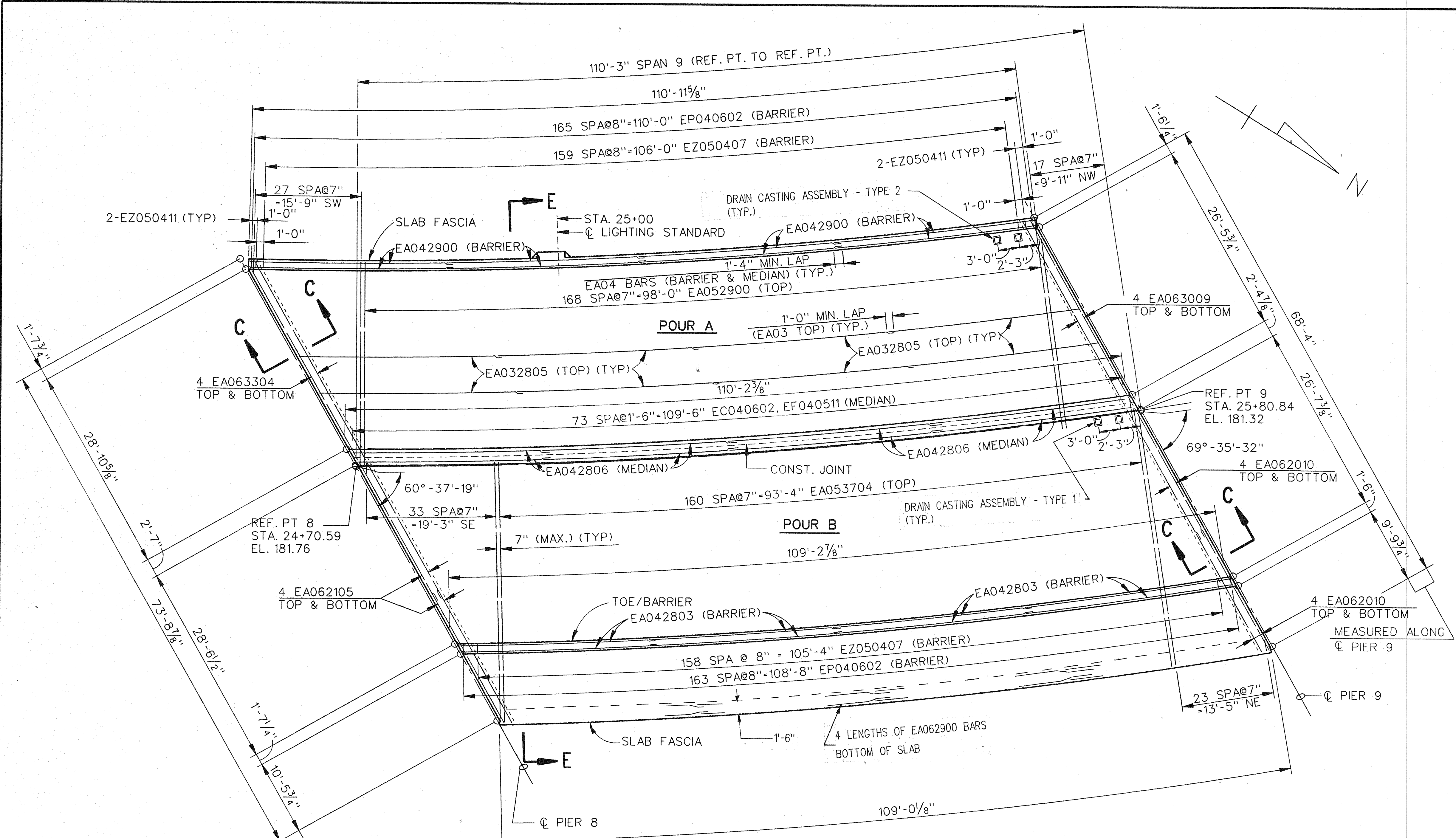
THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SUPERSTRUCTURE DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

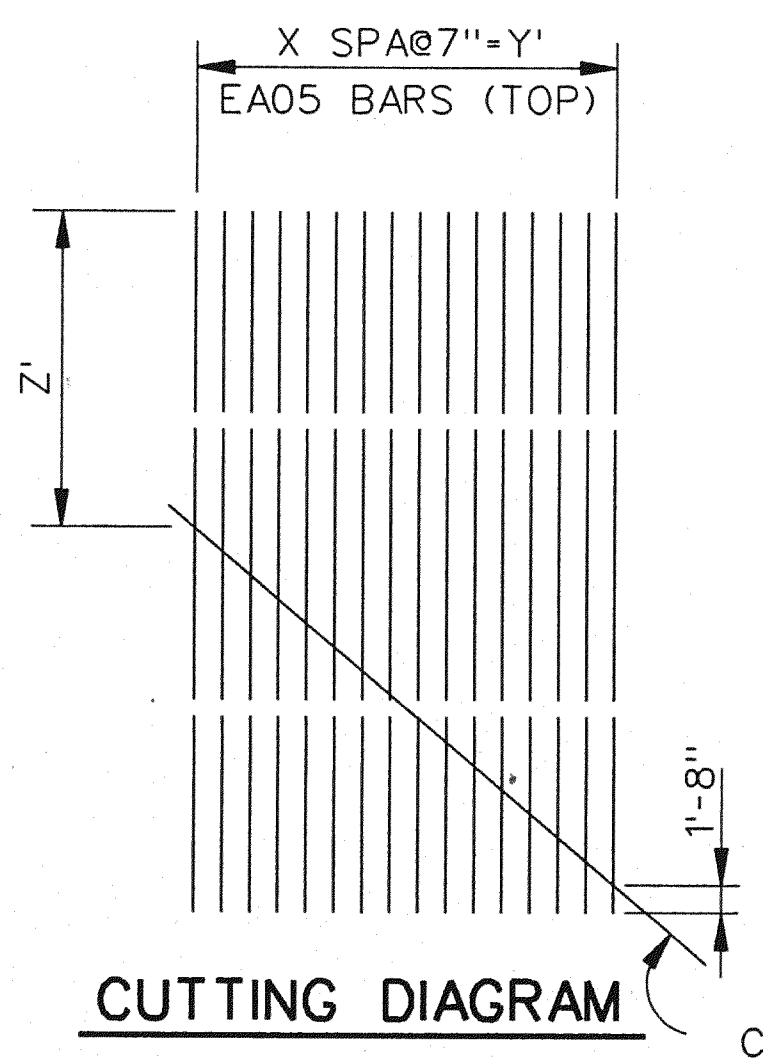
SQUAD BOSS	NAME	DATE
DRAWN BY	NAME WTA	DATE 6/93
CHECKED BY	NAME HME	DATE 1/94
SHEET 38 OF 57		

B01 of 82-22-48

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SLAB PLAN



CUTTING DIAGRAM

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 1/8"
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"

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

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 RADIALY.
 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.
 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.

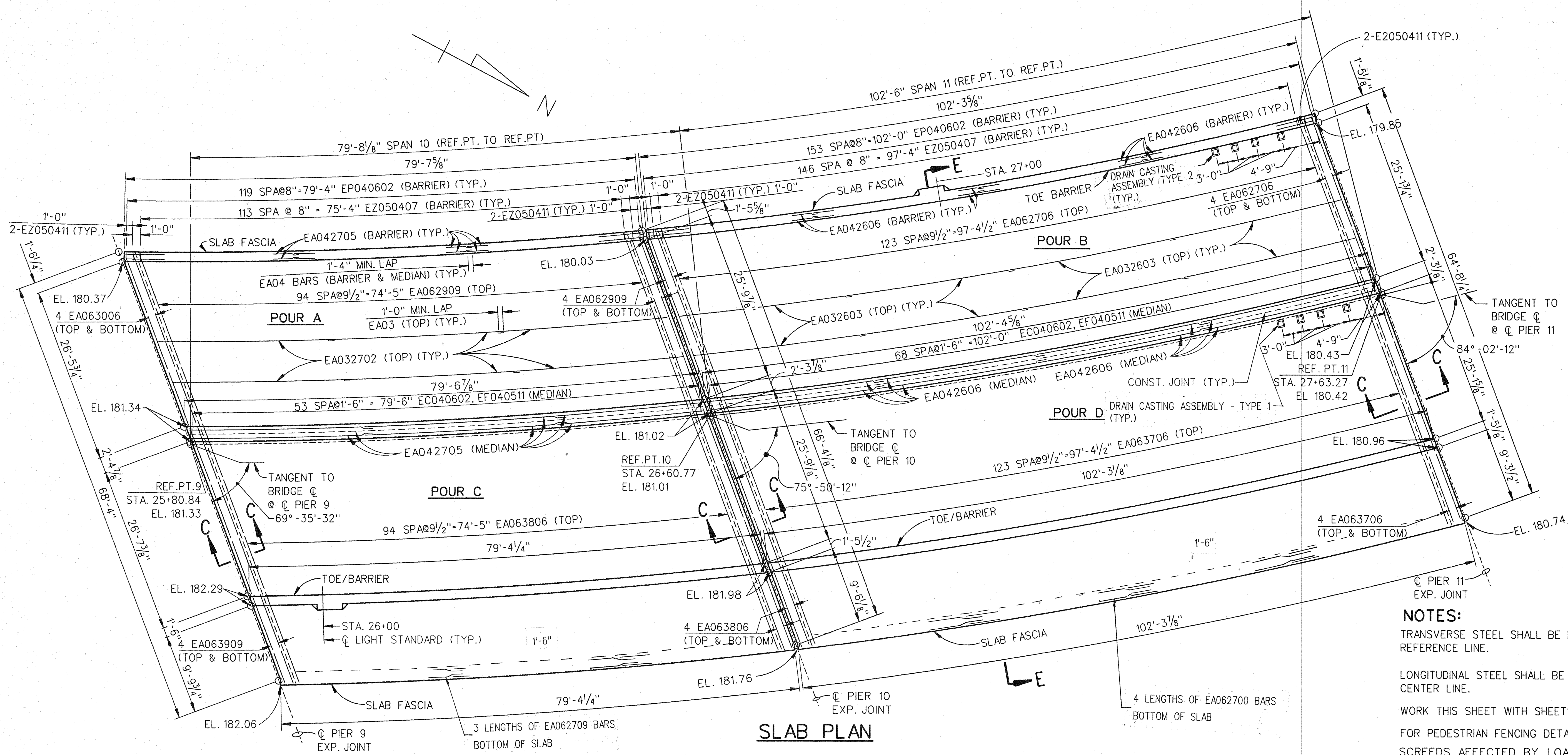
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 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SUPERSTRUCTURE DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE

CHECKED BY: NAME HME DATE 1/94
 SHEET 39 OF 57
B01 of 82-22-48



SLAB PLAN

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.

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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	4
CONSTRUCTING BRIDGE DECK SURFACE	SYD	540.6	711.8
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	0	4

	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	179.94	179.96	179.86
MEDIAN WEST	181.33	181.25	181.17	181.09	181.01	180.91	180.80	180.67	180.43
CONST. JT.	181.33	181.25	181.17	181.09	181.01	180.90	180.80	180.67	180.42
MEDIAN EAST	181.33	181.25	181.17	181.09	181.01	180.90	180.80	180.67	180.42
EAST BARRIER	182.29	182.21	182.14	182.06	181.98	181.84	181.61	181.35	180.97

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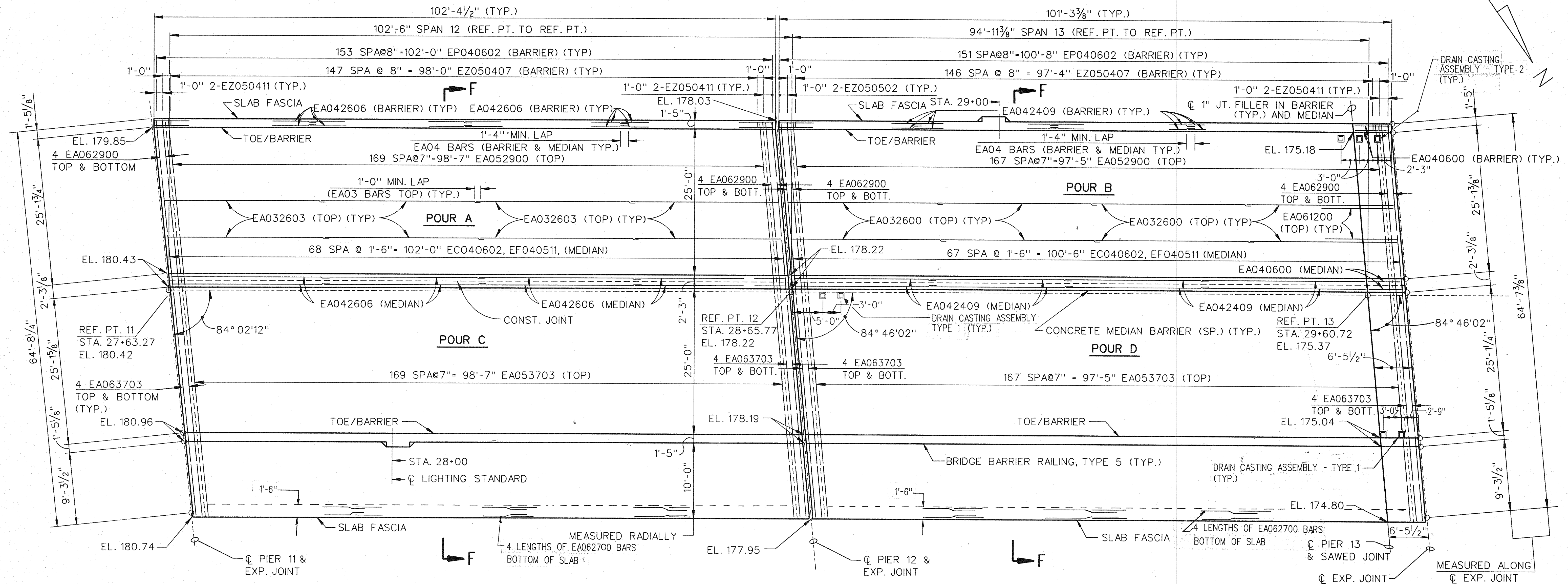
THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SUPERSTRUCTURE DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE

CHECKED BY: NAME HME DATE 1/94
 SHEET 40 OF 57
B01 of 82-22-48

CONTROL SECTION B01 OF 822248 JOB NO. SH. NO. 41



SLAB PLAN

NOTES:

WORK THIS SHEET WITH SHEETS 26, 27, 33 THRU 40 AND 42 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.

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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.

MISCELLANEOUS QUANTITIES			
ITEM	UNIT	AMOUNT	
		SPAN 12	SPAN 13
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	204.6	204.7
CONCRETE MEDIAN BARRIER (SP.)	LFT	102.4	101.3
SCARIFYING	SYD	736.7	732.4
HYDRODEMOLISHING - FIRST PASS	SYD	736.7	732.4
HYDRODEMOLISHING - SECOND PASS	SYD	84.7	75.8
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	0	ε
CONSTRUCTING BRIDGE DECK SURFACE	SYD	707.6	703.3
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	0	ρ

	SCREED ELEVATIONS									
	PIER 11 1/4	1/2	3/4	PIER 12 1/4	1/2	3/4	PIER 13 EXPJT			
WEST BARRIER	179.86	179.63	179.29	178.76	178.03	177.32	176.61	175.90	175.18	174.99
MEDIAN WEST	180.43	180.06	179.57	178.96	178.22	177.51	176.80	176.09	175.38	175.19
CONST. JT.	180.42	180.05	179.56	178.95	178.22	177.51	176.79	176.08	175.37	175.18
MEDIAN EAST	180.42	180.05	179.56	178.95	178.22	177.51	176.79	176.08	175.37	175.18
EAST BARRIER	180.97	180.45	179.82	179.07	178.19	177.36	176.52	175.75	175.04	174.85

SUPERSTRUCTURE CONCRETE QUANTITIES	
POUR	AMT (CYDS)
A	45.4
B	44.9
C	61.9
D	61.2
TOTAL CONC.:	213.4

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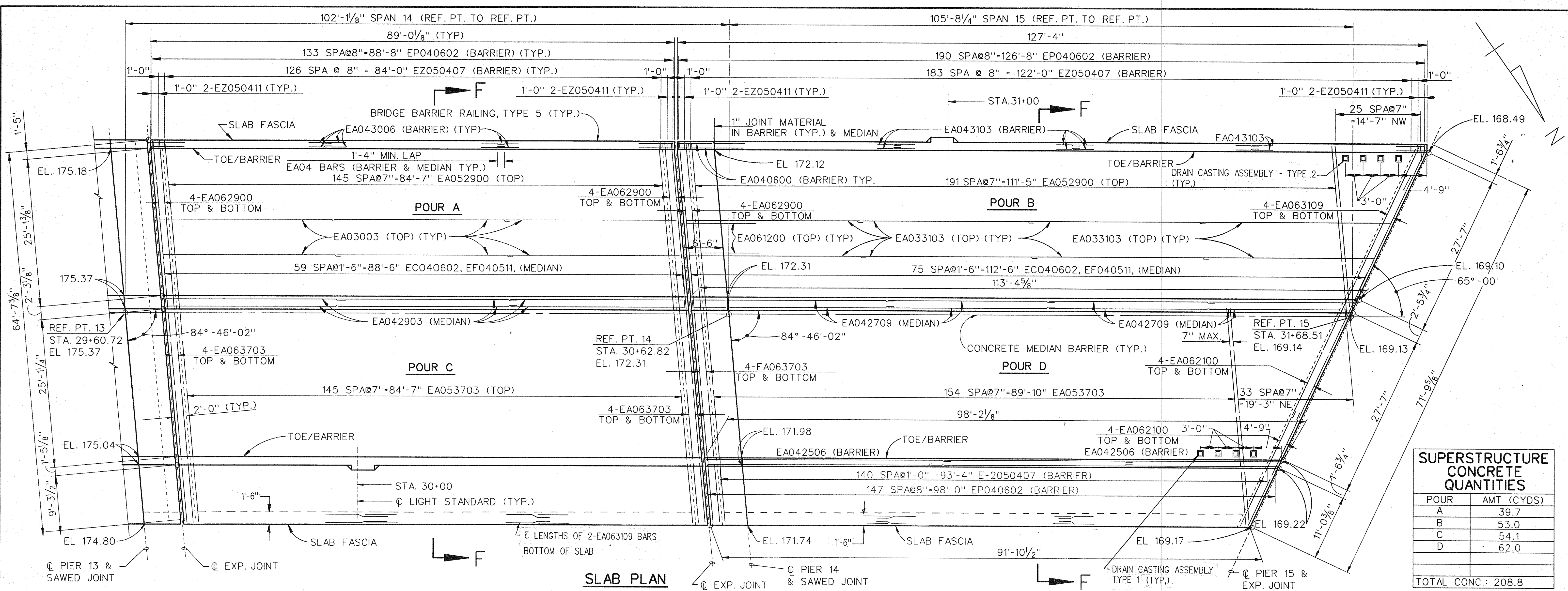
THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SUPERSTRUCTURE DETAILS

NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET 41 OF 57		

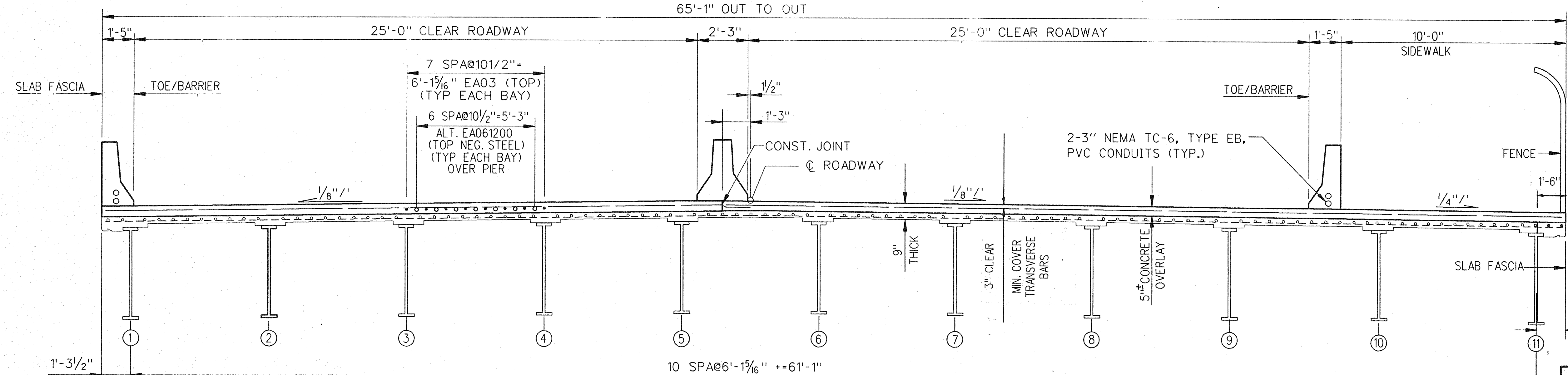
B01 of 82-22-48

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SUPERSTRUCTURE CONCRETE QUANTITIES	
POUR	AMT (CYDS)
A	39.7
B	53.0
C	54.1
D	62.0
TOTAL CONC.: 208.8	

MISCELLANEOUS QUANTITIES			
ITEM	UNIT	AMOUNT	
		SPAN 14	SPAN 15
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	178.0	225.5
CONCRETE MEDIAN BARRIER (SP.)	LFT	89.0	113.4
SCARIFYING	SYD	646.2	798.0
HYDRODEMOLISHING - FIRST PASS	SYD	646.2	798.0
HYDRODEMOLISHING - SECOND PASS	SYD	14.9	9.2
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	0	4
CONSTRUCTING BRIDGE DECK SURFACE	SYD	617.1	767.5
FALSE DECKING	SYD	0	798.0
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	0	4



**SECTION F-F
 SCREED ELEVATIONS**

	PIER 13 EXPJT	1/4	1/2	3/4	EXPJT PIER 14	1/4	1/2	3/4	PIER 15
WEST BARRIER	175.18	174.99	174.32	173.65	172.99	172.32	172.12	171.21	169.40
MEDIAN WEST	175.38	175.19	174.52	173.84	173.18	172.51	172.31	171.51	169.71
CONST. JT.	175.37	175.18	174.51	173.84	173.18	172.51	172.31	171.51	169.92
MEDIAN EAST	175.37	175.18	174.51	173.84	173.18	172.51	172.31	171.52	169.93
EAST BARRIER	175.04	174.85	174.18	173.51	172.85	172.18	171.98	171.29	169.91

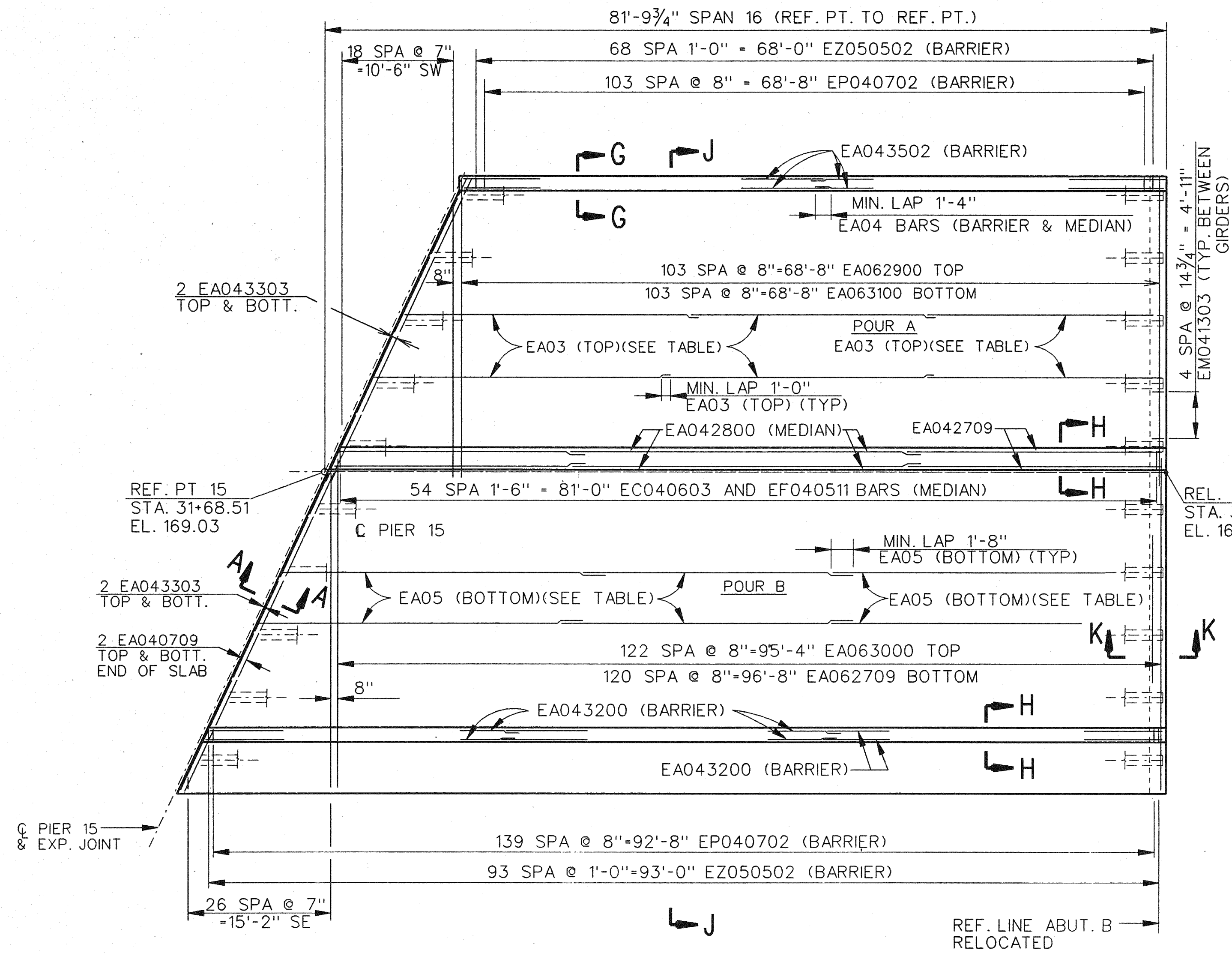
NOTES:
 WORK THIS SHEET WITH SHEETS 26, 27, 33 THRU 41 AND 43 THRU 51.
 FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS 52 & 53.
 FOR ADDITIONAL NOTES SEE SHEET 41.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

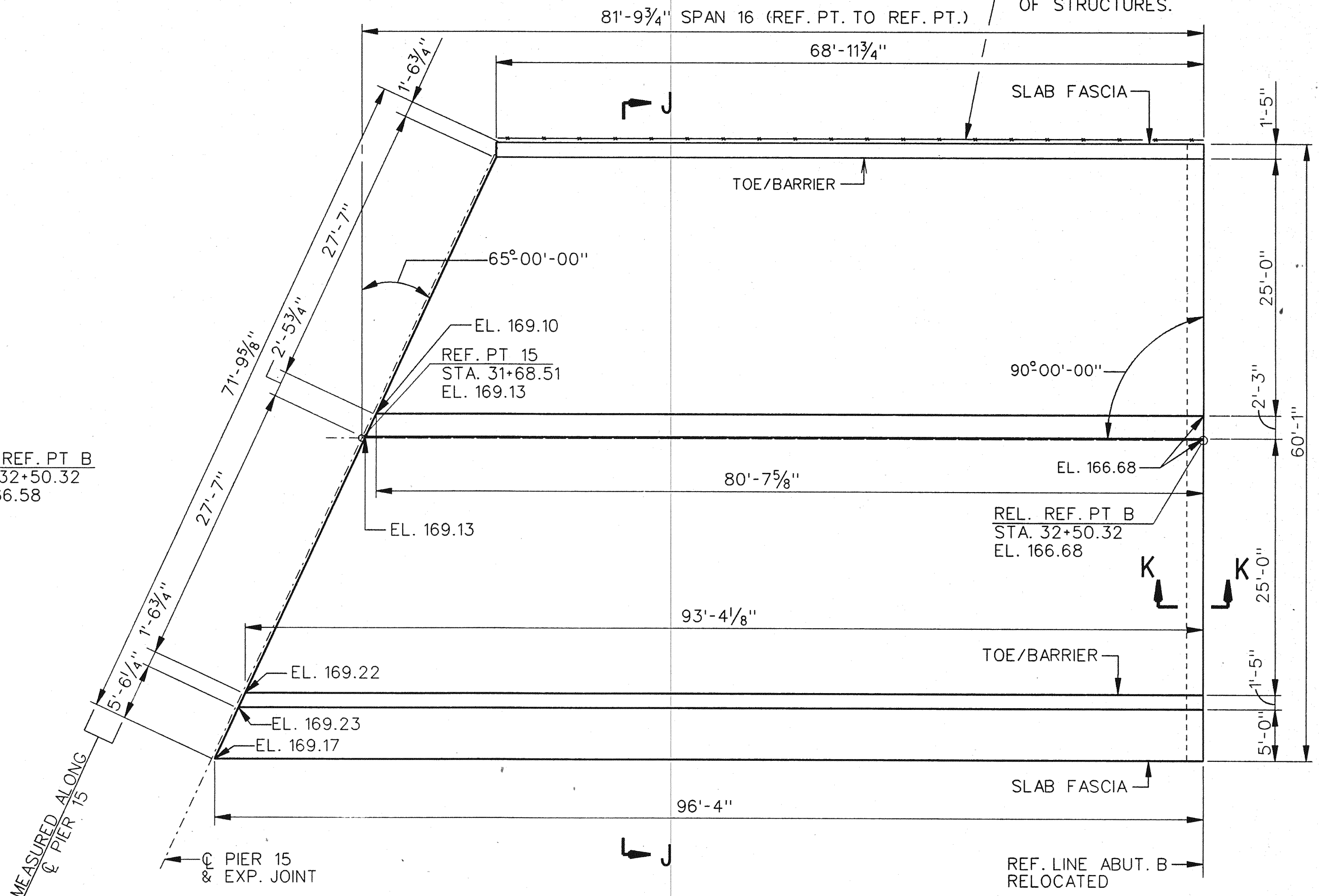
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 SUPERSTRUCTURE DETAILS

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET 42 OF 57		
B01 of 82-22-48		

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SLAB PLAN



SLAB PLAN

RANGE	BAR	LENGTHS
G1 TO G4	EA032606	3
G4 TO G7	EA032904	3
G7 TO G10	EA033206	3
G1 TO G4	EA052611	3
G4 TO G7	EA052910	3
G7 TO G10	EA053211	3

POUR	AMT CYDS
A	59.5
B	83.4
TOTAL CONC.:	142.9

ITEM	UNIT	AMOUNT
FORMING, FINISHING AND CURING SUPERSTRUCTURE CONCRETE	LSUM	1
BRIDGE BARRIER RAILING, TYPE 5	LFT	162.3
CONCRETE MEDIAN BARRIER (SP.)	LFT	81.0

	PIER 15	1/4	1/2	3/4	ABTB
WEST BARRIER	168.49	168.49	167.97	167.46	166.42
MEDIAN WEST	169.10	169.10	168.50	167.89	166.68
CONST. JT.	169.12	169.11	168.51	167.90	166.68
MEDIAN EAST	169.13	169.13	168.52	167.91	166.68
EAST BARRIER	169.22	169.22	168.52	167.82	166.42

NOTES:

WORK THIS SHEET WITH SHEETS 39, 44, 47 & 49 TO 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 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.

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.

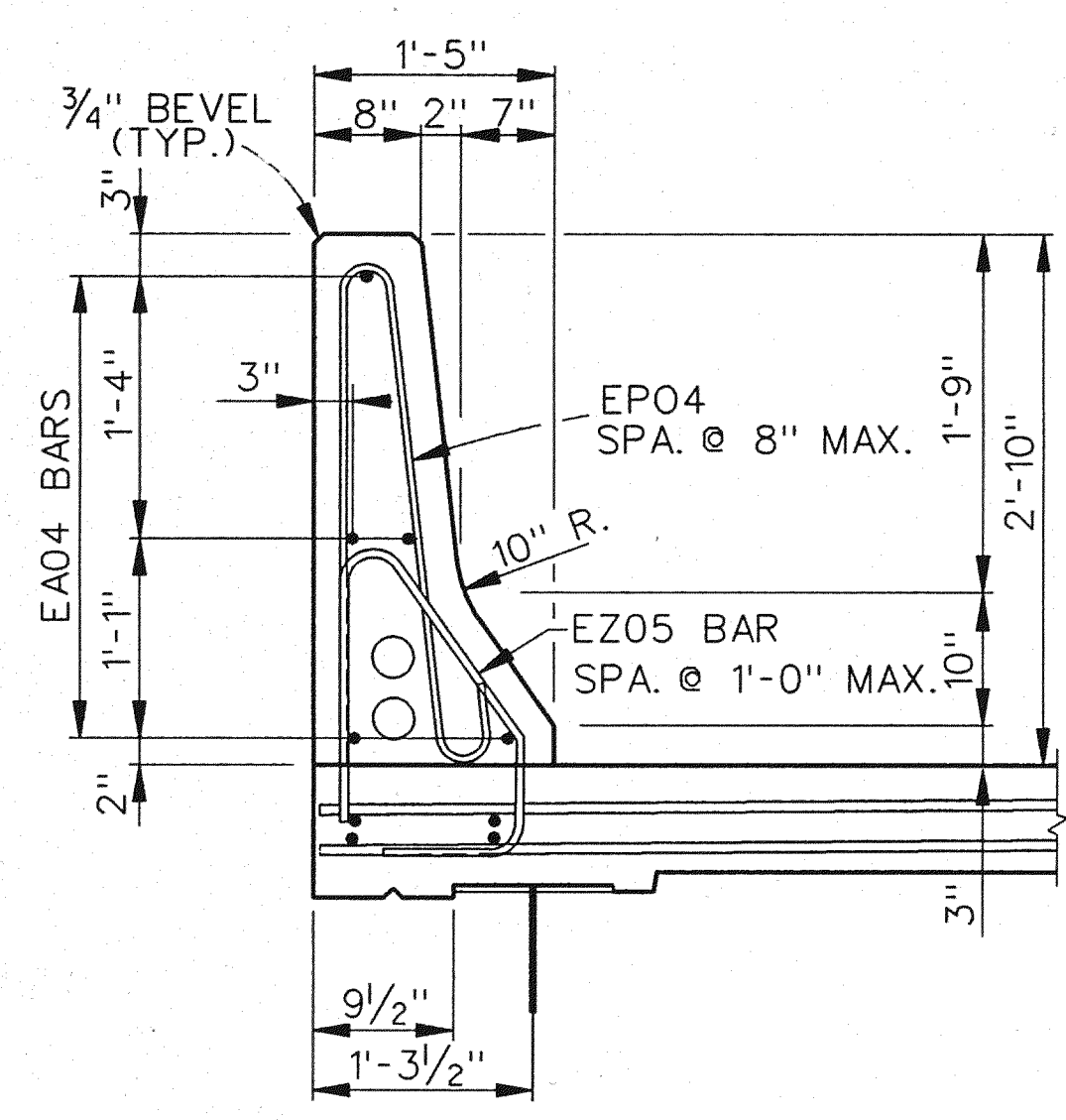
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 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SUPERSTRUCTURE DETAILS

NO.	DESCRIPTION	DATE	BY

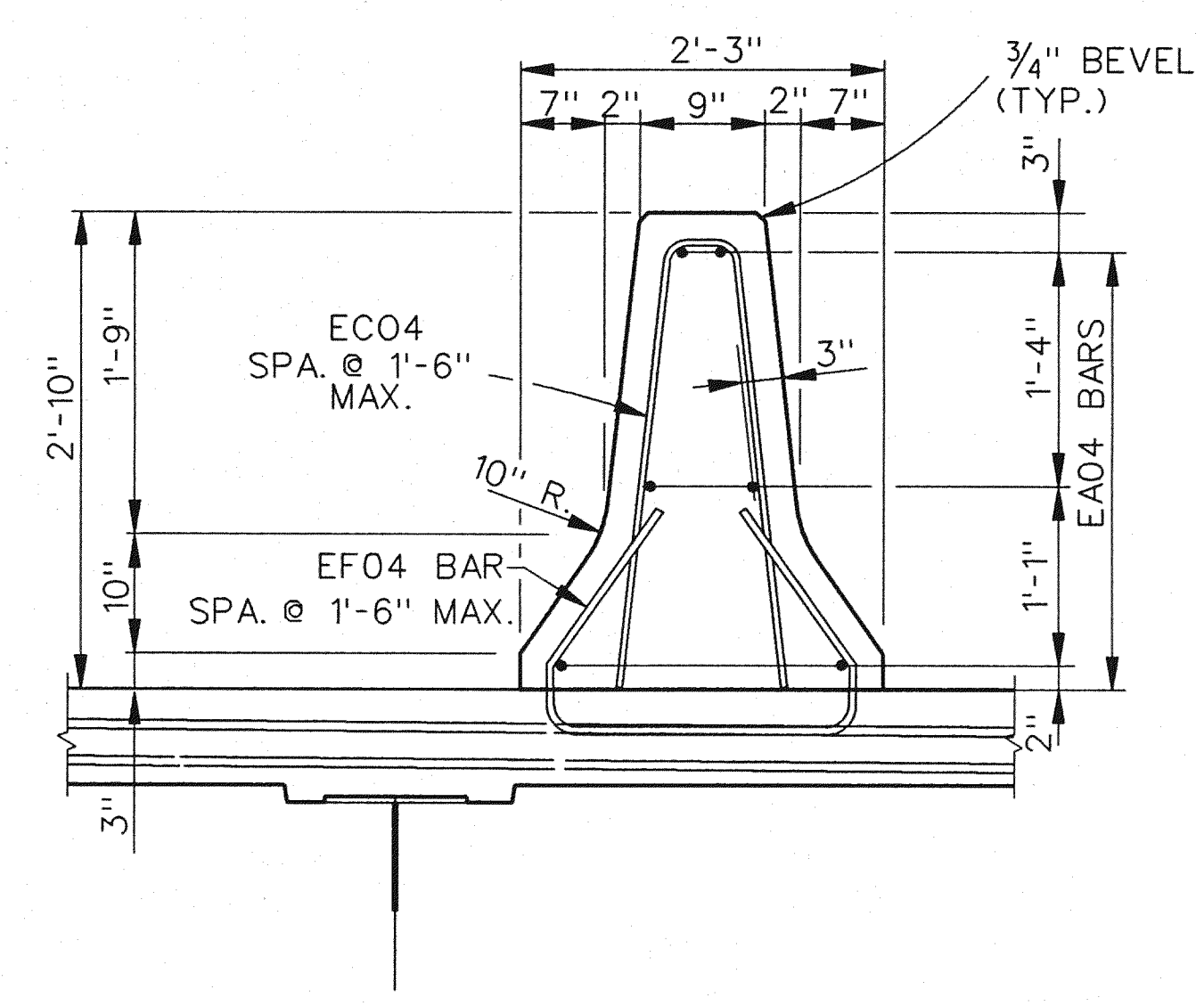
SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE 11/93
CHECKED BY	NAME	DATE 1/94
SHEET 43 OF 57		

B01 of 82-22-48

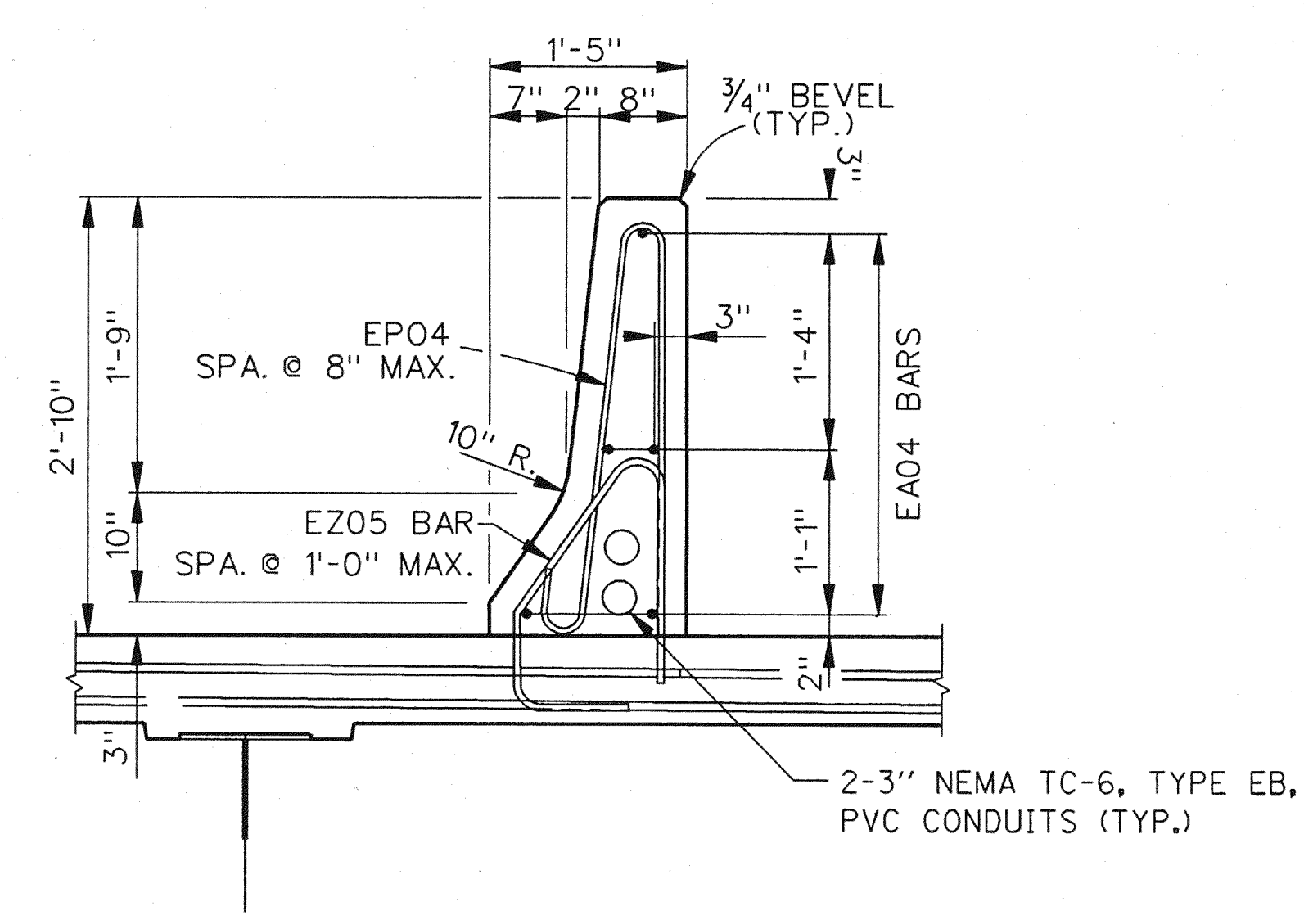
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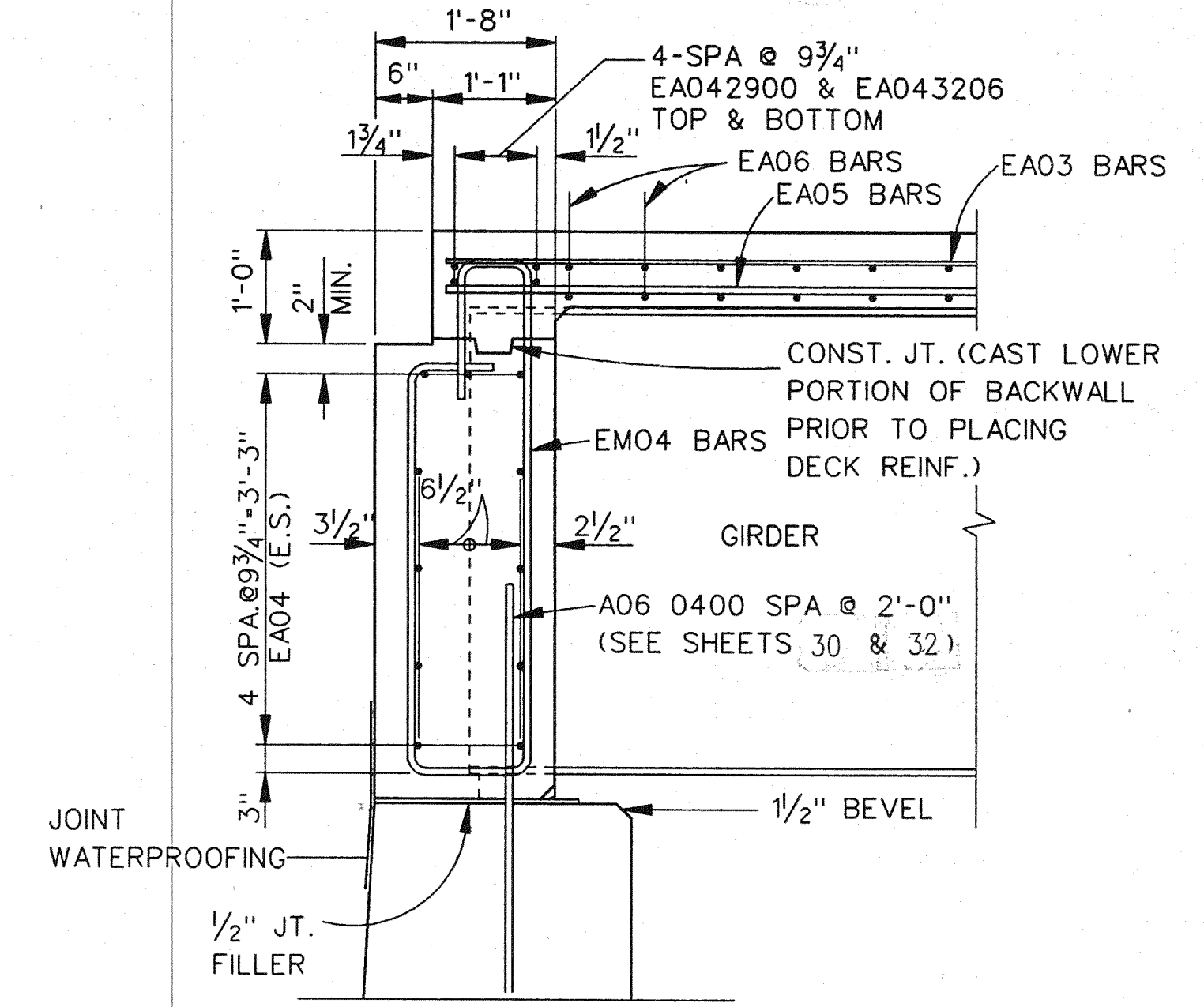
SECTION GG



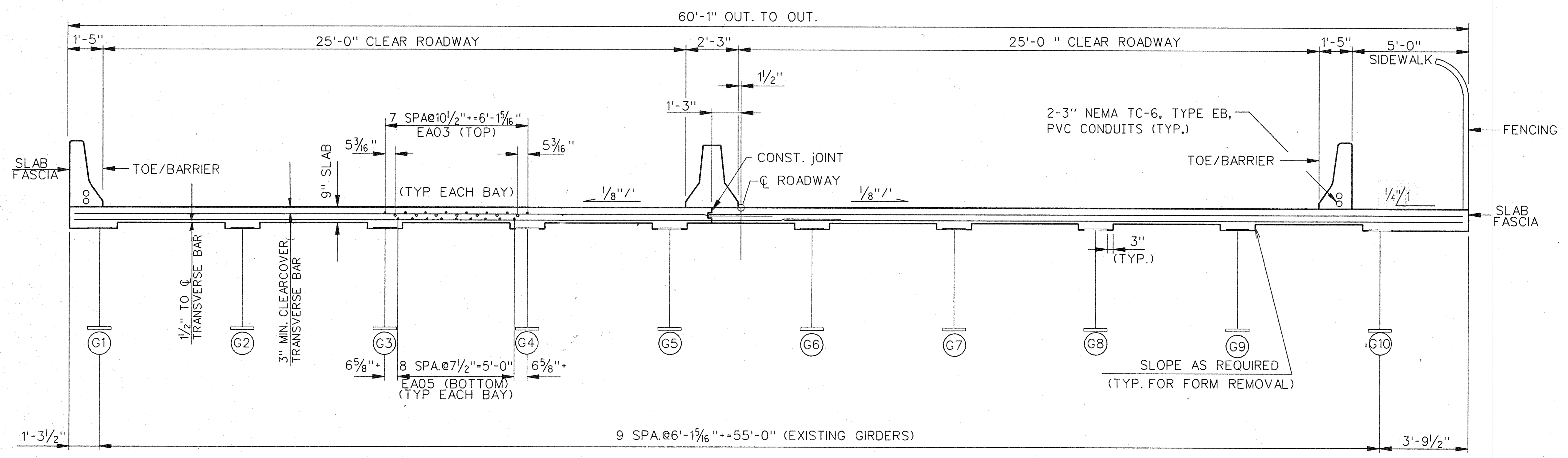
SECTION HH



SECTION II



SECTION KK



SECTION JJ

NOTE: WORK THIS SHEET WITH SHEET 39 AND 43.

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

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE

CHECKED BY: NAME HME DATE 1/94
SHEET 44 OF 57
B01 of 82-22-48

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SPAN 1											
EA033109	31'-9"									222	2650
EA042900	29'-0"									4	77
EA042909	29'-9"									48	954
EA043206	32'-6"									4	87
EA052900	29'-0"									153	4628
EA053206	32'-6"									153	5186
EA060307	3'-7"									153	823
EA061200	12'-0"									68	1226
EA062900	29'-0"									8	348
EA063206	32'-6"									8	391
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"			63	259
ED040507	11"	3'-9"	11"							3	11
ED040408	9"	3'-2"	9"							4	12
EF040511	2'-0"	7 1/2"	1'-4"	1'-1"	9"					63	249
EF040511	2'-5 3/4"	6 3/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		280	1153
EP040602	2'-5 3/4"	6 3/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		280	1153
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"		266	1272
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"		8	41
EM041210	10 1/4"	4'-7"	1'-3 1/2"	3'-7"	11 1/2"	1'-6 3/4"				41	351
TOTAL SPAN 1 STEEL REINFORCEMENT											0
TOTAL SPAN 1 STEEL REINFORCEMENT, EPOXY COATED											19718

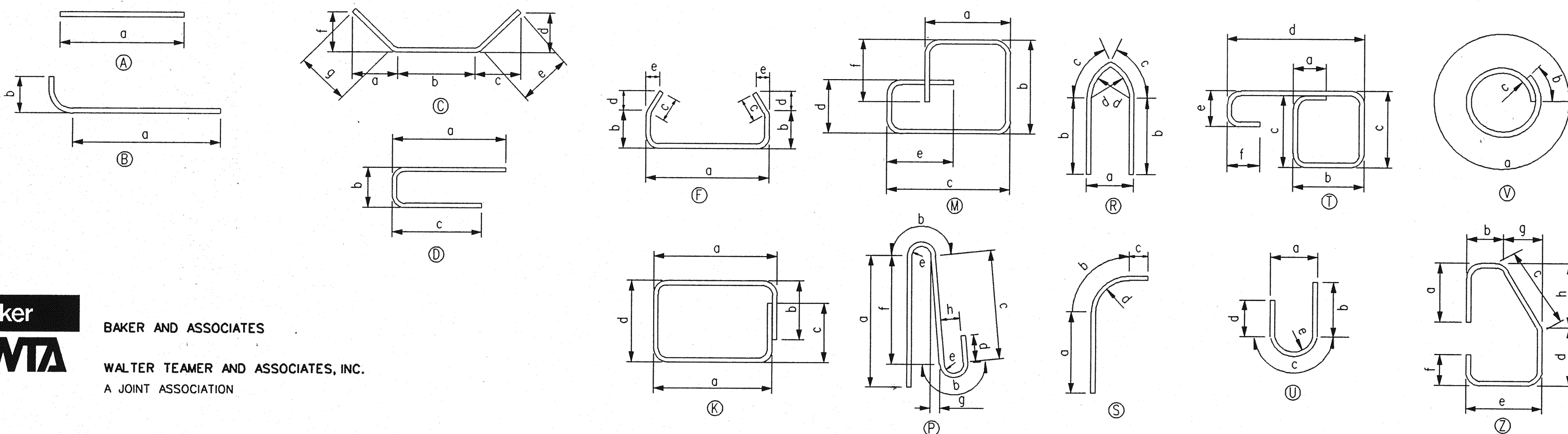
BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SPAN 2											
EA033100	31'-0"									222	2588
EA043102	31'-2"									48	999
EA052900	29'-0"									149	4507
EA053206	32'-6"									149	5051
EA060307	3'-7"									149	802
EA062900	29'-0"									16	697
EA063206	32'-6"									16	781
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"			61	251
ED040507	11"	3'-9"	11"							3	7
ED040408	9"	3'-2"	9"							4	12
EF040511	2'-0"	7 1/2"	1'-4"	1'-1"	9"					61	241
EP040602	2'-5 3/4"	6 3/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		274	1129
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"		260	1243
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"		8	41
TOTAL SPAN 2 STEEL REINFORCEMENT											0
TOTAL SPAN 2 STEEL REINFORCEMENT, EPOXY COATED											18,349

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SPAN 3											
EA033006	30'-6"									296	3395
EA042706	27'-6"									64	1176
EA052900	29'-0"									196	5928
EA053206	32'-6"									196	6644
EA060307	3'-7"									196	1055
EA061200	12'-0"									136	2451
EA062900	29'-0"									16	697
EA063206	32'-6"									16	781
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"			80	330
ED040507	11"	3'-9"	11"							3	11
ED040408	9"	3'-2"	9"							4	12
EF040511	2'-0"	7 1/2"	1'-4"	1'-1"	9"					80	316
EF040511	2'-5 3/4"	6 3/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		356	1466
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"		342	1635
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"		8	41
TOTAL SPAN 3 STEEL REINFORCEMENT											0
TOTAL SPAN 3 STEEL REINFORCEMENT, EPOXY COATED											25,938

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SPAN 4											
EA033100	31'-0"									222	2588
EA043100	31'-0"									18	373
EA052900	29'-0"									147	4446
EA053000	30'-0"									8	250
EA053206	32'-6"									139	4712
EA060307	3'-7"									139	748
EA062900	29'-0"									16	697
EA063000	30'-0"									8	360
EA063206	32'-6"									8	391
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"			61	251
ED040507	11"	3'-9"	11"							3	11
ED040408	9"	3'-2"	9"							4	12
EF040511	2'-0"	7 1/2"	1'-4"	1'-1"	9"					61	241
EP040602	2'-5 3/4"	6 3/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		270	1112
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"		260	1243
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"		8	41
TOTAL SPAN 4 STEEL REINFORCEMENT											0
TOTAL SPAN 4 STEEL REINFORCEMENT, EPOXY COATED											17,476

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SPAN 5											
EA030803	8'-3"									9	28
EA033207	32'-7"									300	3675
EA042603	26'-3"									25	438
EA043100	31'-0"									20	414
EA043107	31'-7"									24	506
EA050702	7'-2"									13	97
EA052900	29'-0"									203	6140
EA053704	37'-4"									209	8138
EA062900	29'-0"									24	1045
EA063506	35'-6"									8	427
EA063704	37'-4"									8	449
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"			82	338
ED040507	11"	3'-9"	11"							3	11
ED040408	9"	3'-2"	9"							4	12
EF040511	2'-0"	7 1/2"	1'-4"	1'-1"	9"					82	324
EP040602	2'-5 3/4"	6 3/4"	2'-3"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		370	1524
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"		361	1726
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"		8	41
TOTAL SPAN 5 STEEL REINFORCEMENT											0
TOTAL SPAN 5 STEEL REINFORCEMENT, EPOXY COATED											25333

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SPAN 6											
EA033200	32'-0"									11	352
EA033509	35'-9"									85	1143
EA033600	36'-0"									12	162
EA042100	21'-0"									12	168
EA042903	29'-3"									15	293
EA053003	30'-3"									36	1136
EA053704	37'-4"									76	2959
EA053807	38'-7"									44	1771
EA062805	28'-5"									16	683
EA062900	29'-0"									8	348
EA063109	31'-9"									16	763
EA063400	34'-0"									6	306
EA063703	37'-3"									8	448
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"			23	95
ED040408	9"	3'-2"	9"							4	12
ED040507	11"	3'-9"	11"							3	11
EF040511	2'-0"	7 1/2"	1'-4"	1'-1"	9"					23	91
EP040602	2'-5 3/4"	6 3/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		128	527
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"		127	607
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"		5	26
TOTAL SPAN 6 STEEL REINFORCEMENT											0
TOTAL SPAN 6 STEEL REINFORCEMENT, EPOXY COATED											11,901



CONTROL SECTION B01 OF 82-22-48 JOB NO. 46

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SPAN 7											
EA033000	30'-0"									300	3384
EA042410	24'-10"									20	332
EA042606	26'-6"									25	443
EA042809	28'-9"									24	461
EA052900	29'-0"									151	4567
EA053000	30'-0"									19	595
EA053003	30'-3"									35	1104
EA053704	37'-4"									107	4166
EA053803	38'-3"									24	957
EA053807	38'-7"									44	1771
EA062309	23'-9"									16	571
EA062805	28'-5"									16	683
EA063109	31'-9"									22	1049
EA063600	36'-0"									8	433
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"			74	305
ED040408	9"	3'-2"	9"							4	12
ED040507	11"	3'-9"	11"							3	11
EF040511	2'-0"	7 1/2"	1'-4"	1'-1"	9"					74	292
EP040602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		329	1355
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"		316	1511
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"		12	62
TOTAL SPAN 7 STEEL REINFORCEMENT										0	
TOTAL SPAN 7 STEEL REINFORCEMENT, EPOXY COATED										24,064	

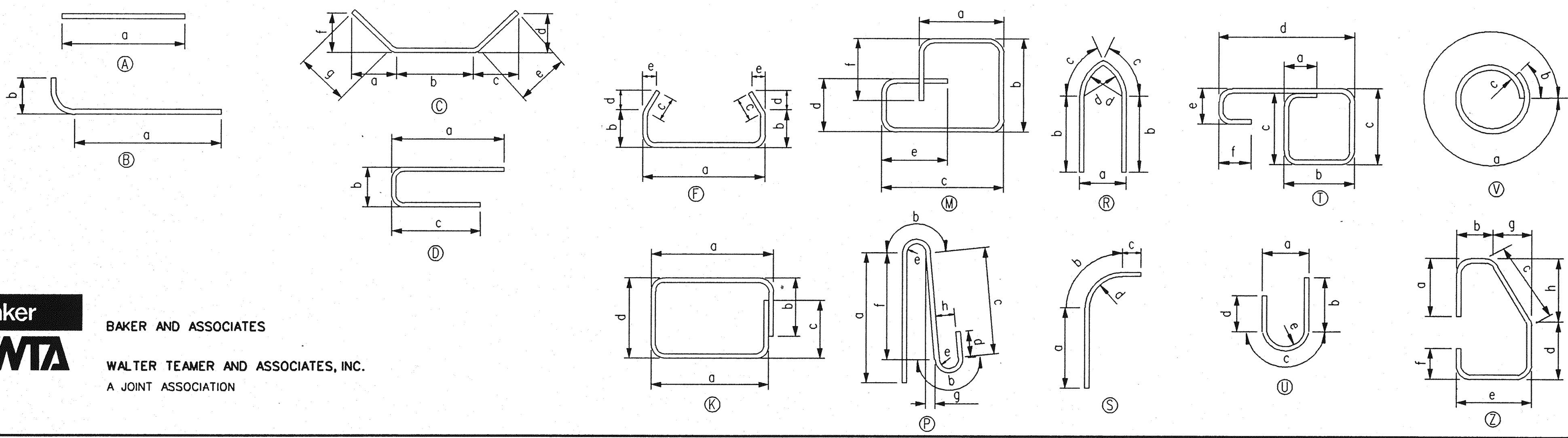
BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SPAN 8											
EA032506	25'-6"									375	3596
EA040600	6'-0"									16	64
EA042406	24'-6"									80	1309
EA052900	29'-0"									188	5686
EA053704	37'-4"									178	6931
EA061200	12'-0"									75	1352
EA063206	32'-6"									8	391
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"			83	342
ED040408	9"	3'-2"	9"							4	12
ED040507	11"	3'-9"	11"							3	11
EF040511	2'-0"	7 1/2"	1'-4"	1'-1"	9"					83	328
EP040602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		370	1524
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"		360	1721
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"		8	41
TOTAL SPAN 8 STEEL REINFORCEMENT										0	
TOTAL SPAN 8 STEEL REINFORCEMENT, EPOXY COATED										123,308	

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SPAN 9											
EA032805	28'-5"									300	3205
EA042803	28'-3"									20	377
EA042806	28'-6"									24	457
EA042900	29'-0"									20	387
EA052711	27'-11"									8	233
EA052900	29'-0"									169	5112
EA053202	32'-2"									13	436
EA053700	37'-4"									16	624
EA053704	37'-4"									161	6269
EA053902	39'-0"									11	449
EA062010	20'-10"									16	501
EA062105	21'-5"									16	515
EA063009	30'-9"									8	369
EA063304	33'-4"									8	401
EA062900	29'-0"									8	348
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"			74	305
ED040507	11"	3'-9"	11"							3	11
ED040408	9"	3'-2"	9"							4	12
EF040511	2'-0"	7 1/2"	1'-4"	1'-1"	9"					74	292
EP040602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		330	1359
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"		319	1525
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"		8	41
TOTAL SPAN 9 STEEL REINFORCEMENT										0	
TOTAL SPAN 9 STEEL REINFORCEMENT, EPOXY COATED										23,228	

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SPAN 10											
EA032702	27'-2"									225	2298
EA042705	27'-5"									48	879
EA062909	29'-9"									103	4603
EA063006	30'-6"									8	366
EA063805	38'-5"									103	5943
EA063909	39'-9"									8	478
EA062709	27'-9"									6	250
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"			54	222
ED040507	11"	3'-9"	11"							3	11
ED040408	9"	3'-2"	9"							4	12
EF040511	2'-0"	7 1/2"	1'-4"	1'-1"	9"					54	213
EP040602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		240	989
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"		228	1090
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"		8	41
TOTAL SPAN 10 STEEL REINFORCEMENT										0	
TOTAL SPAN 10 STEEL REINFORCEMENT, EPOXY COATED										17,395	

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SPAN 11											
EA032603	26'-3"									300	2961
EA042606	26'-6"									64	1133
EA062706	27'-6"									140	5783
EA062909	29'-9"									8	357
EA063706	37'-6"									132	7435
EA062805	38'-5"									8	462
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"			69	285
ED040507	11"	3'-9"	11"							3	11
ED040408	9"	3'-2"	9"							4	12
EF040511	2'-0"	7 1/2"	1'-4"	1'-1"	9"					69	273
EP040602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		308	1269
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"		294	1405
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"		8	41
TOTAL SPAN 11 STEEL REINFORCEMENT										0	
TOTAL SPAN 11 STEEL REINFORCEMENT, EPOXY COATED										21,427	

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SPAN 12											
EA032603	26'-3"									300	2961
EA042606	26'-6"									64	1133
EA042900	29'-0"									170	5142
EA053703	37'-3"									170	6605
EA062900	29'-0"									16	697
EA063703	37'-3"									16	895
EA062700	27'-0"									8	324
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"			69	285
ED040408	9"	3'-2"	9"							4	12
ED040507	11"	3'-9"	11"							3	11
EF040511	2'-0"	7 1/2"	1'-4"	1'-1"	9"					69	273
EP040602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		308	1269
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"		198	1415
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"		8	41
TOTAL SPAN 12 STEEL REINFORCEMENT										0	
TOTAL SPAN 12 STEEL REINFORCEMENT, EPOXY COATED										21,063	

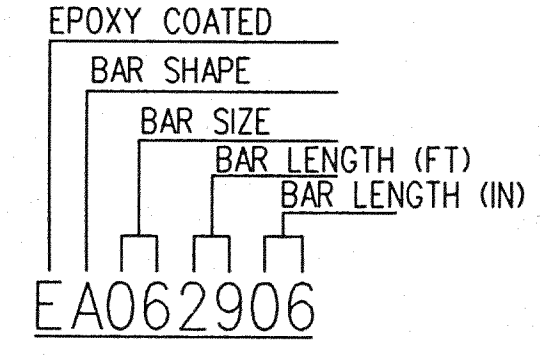


NOTES: ALL BENDS IN REINFORCING STEEL TO BE MADE ABOUT A PIN OF THE MINIMUM DIAMETER ALLOWED BY THE STANDARD SPECIFICATION.

TOLERANCES IN CUTTING AND BENDING BARS ARE AS ESTABLISHED IN MANUAL OF STANDARD PRACTICE OF THE REINFORCING STEEL INSTITUTE AND DETAILING MANUAL OF THE AMERICAN CONCRETE INSTITUTE.

WHERE FIELD CUTTING OF EPOXY BARS IS REQUIRED, THE CONTRACTOR SHALL REPAIR THE EPOXY COATING AT THE CUT END AS PROVIDED FOR IN SUPPLEMENTAL SPECIFICATION 5.03 (3 SERIES). (INCLUDED IN STEEL REINFORCEMENT, EPOXY COATED.)

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



Baker WTA
BAKER AND ASSOCIATES
WALTER TEAMER AND ASSOCIATES, INC.
A JOINT ASSOCIATION

THE CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
REINFORCEMENT BAR LIST

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS			
NAME	DATE	11/93	

CHECKED BY: NAME RAD DATE 11/93
SHEET 46 OF 57

B01 of 82-22-48

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BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g	h		
SPAN 13										
EA032600	26'-0"								300	2933
EA040600	6'-0"								16	64
EA042409	24'-9"								64	1058
EA052900	29'-0"								168	5081
EA053703	37'-3"								168	6527
EA061200	12'-0"								74	1334
EA062900	29'-0"								16	697
EA063703	37'-3"								16	895
EA062700	27'-0"								8	324
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"		68	280
ED040408	9"	3'-2"	9"						4	12
ED040507	11"	3'-9"	11"						3	11
EF040511	2'-0"	7/2"	1'-4"	1'-1"	9"				68	269
EP040602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"	304	1252
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"	294	1405
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"	8	41
TOTAL SPAN 13 STEEL REINFORCEMENT										0
TOTAL SPAN 13 STEEL REINFORCEMENT, EPOXY COATED										22,183

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g	h		
SPAN 14										
EA033003	30'-3"								225	2559
EA042903	29'-3"								18	352
EA043006	30'-6"								30	611
EA052900	29'-0"								146	4416
EA053703	37'-3"								146	5672
EA062900	29'-0"								16	697
EA063703	37'-3"								16	895
EA063109	31'-9"								6	286
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"		60	247
ED040408	9"	3'-2"	9"						4	12
ED040507	11"	3'-9"	11"						3	14
EF040511	2'-0"	7/2"	1'-4"	1'-1"	9"				60	237
EP040602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"	268	1104
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"	254	1214
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"	8	41
TOTAL SPAN 14 STEEL REINFORCEMENT										0
TOTAL SPAN 14 STEEL REINFORCEMENT, EPOXY COATED										18,357

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g	h		
SPAN 15										
EA033103	31'-3"								300	3525
EA040600	6'-0"								16	64
EA042506	25'-6"								15	256
EA042709	27'-9"								24	445
EA043103	31'-3"								20	418
EA052900	29'-0"								192	5807
EA052905	29'-5"								13	399
EA053703	37'-3"								155	6022
EA053709	37'-9"								17	669
EA061200	12'-0"								74	1334
EA062100	21'-0"								16	505
EA062900	29'-0"								8	348
EA063109	31'-9"								14	668
EA063703	37'-3"								8	448
EC040602	3"	6"	3"	2'-10"	2'-10"	2'-10"	2'-10"		76	313
ED040408	9"	3'-2"	9"						4	12
ED040507	11"	3'-9"	11"						3	11
EF040511	2'-0"	7/2"	1'-4"	1'-1"	9"				76	300
EP040602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"	339	1396
EZ050407	1'-7"	3 3/4"	1'-3 3/4"	6"	10 1/2"	0"	9"	1'-1"	325	1554
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"	8	41
TOTAL SPAN 15 STEEL REINFORCEMENT										0
TOTAL SPAN 15 STEEL REINFORCEMENT, EPOXY COATED										24,535

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g	h		
SPAN 16										
EA032606	26'-6"								72	717
EA032904	29'-4"								66	728
EA033206	32'-6"								78	953
EA040709	7'-9"								4	21
EA042709	27'-9"								6	111
EA042800	28'-0"								12	224
EA042900	29'-0"								15	291
EA043200	32'-0"								15	321
EA043206	32'-6"								15	326
EA043303	33'-3"								8	178
EA043502	35'-2"								10	235
EA052611	26'-11"								78	2190
EA052910	29'-10"								72	2240
EA053211	32'-11"								93	3193
EA062706	27'-6"								10	413
EA062900	29'-0"								104	4530
EA063006	30'-6"								121	5543
EA063100	31'-0"								104	4842
EA063206	32'-6"								123	6004
EA063500	35'-0"								14	736
EZ040506	3"	6"	3"	2'-6"	2'-6"	2'-6"	2'-6"		55	202
EF040511	2'-0"	7/2"	1'-4"	1'-1"	9"				55	217
EP040602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"	244	1005
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"	163	339
TOTAL SPAN 16 STEEL REINFORCEMENT										0
TOTAL SPAN 16 STEEL REINFORCEMENT, EPOXY COATED										35,967

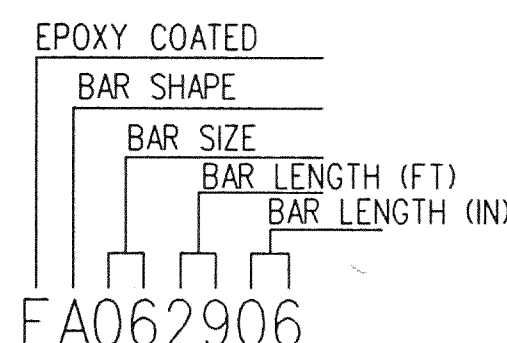
SEE SHEET 43 OF 54 FOR BAR SHAPES.

NOTES: ALL BENDS IN REINFORCING STEEL TO BE MADE ABOUT A PIN OF THE MINIMUM DIAMETER ALLOWED BY THE STANDARD SPECIFICATION.

TOLERANCES IN CUTTING AND BENDING BARS ARE AS ESTABLISHED IN MANUAL OF STANDARD PRACTICE OF THE REINFORCING STEEL INSTITUTE AND DETAILING MANUAL OF THE AMERICAN CONCRETE INSTITUTE.

WHERE FIELD CUTTING OF EPOXY BARS IS REQUIRED, THE CONTRACTOR SHALL REPAIR THE EPOXY COATING AT THE CUT END AS PROVIDED FOR IN SUPPLEMENTAL SPECIFICATION 5.03 (3 SERIES). (INCLUDED IN STEEL REINFORCEMENT, EPOXY COATED.)

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



BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g	h		
WALLS										
EA030300	3'-0"								17	19
EA040503	5'-3"								17	60
EA042406	24'-6"								20	327
EC040408	3'-6"	1'-2"							17	53
EP040602	2'-5 3/4"	6 1/4"	2 1/4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"	74	305
EZ050309	1'-4 1/2"	3 3/4"	1'-3 3/4"	9 3/4"	0"	0"	9"	1'-1"	37	145
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"	25	128
A041305	13'-5"								28	251
A041605	16'-5"								24	263
A042906	29'-6"								40	788
A060400	4'-0"								27	162
A060909	9'-9"								43	630
A061309	13'-9"								39	805
A061606	16'-6"								12	297
A061806	18'-6"								10	278
A071303	13'-3"								22	596
D060505	1'-10"	1'-9"	1'-10"						40	325
TOTAL ABUT. A STEEL REINFORCEMENT										12,316
TOTAL ABUT. A STEEL REINFORCEMENT, EPOXY COATED										1037

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g	h		
WALLS										
EA030300	3'-0"								33	37
EA040503	5'-3"								33	116
EA042506	25'-6"								40	681
EC040408	3'-6"	1'-2"							33	103
EP040602	2'-5 3/4"	6 1/4"	2 1/4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"	148	610
EZ050309	1'-4 1/2"	3 3/4"	1'-3 3/4"	9 3/4"	0"	0"	9"	1'-1"	74	289
EZ050411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"	1'-1"	50	256
A042110	21'-10"								30	438
A042203	22'-3"								58	862
A042506	25'-6"								4	68
A042906	29'-6"								48	946
A060400	4'-0"								27	162
A061703	17'-3"								39	1010
A062100	21'-0"								30	946
A062108	21'-8"								14	456
A081606	16'-6"								65	2864
A091203	12'-3"								41	1708
D060505	1'-10"	1'-9"	1'-10"						40	325
TOTAL ABUT. B STEEL REINFORCEMENT										29,215
TOTAL ABUT. B STEEL REINFORCEMENT, EPOXY COATED										2092

THE CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
REINFORCEMENT BAR LIST

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

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SUBMITTAL	NAME	R/L	DATE
DRAWN BY	NAME	MW	DATE 11/93
CHECKED BY	NAME	RAD	DATE 2/94
SHEET 47 OF 57			

B01 OF 82-22-48

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
SOUTH APPROACH											
EA030300	3'-0"									253	285
EA040503	5'-3"									253	887
EA041900	19'-0"									7	89
EA042009	20'-9"									7	97
EA042809	28'-9"									30	575
EA043009	30'-9"									30	616
EA044009	40'-9"									207	5635
EC040408	0"	3'-6"	2/8"	1'-3/8"	1'-2"	0"	0"			253	789
EC040508	3"	6"	3"	2'-7"	2'-7"	2'-7"	2'-7"			200	822
EPO40602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		1162	4787
EZO40307	1'-2 1/2"	4 1/2"	1'-3 3/4"	9 1/4"	0"	0"	9"			600	1434
EZO50309	1'-4 1/2"	3 3/4"	1'-3 3/4"	9 1/4"	0"	0"	9"	1'-1"		570	2229
EZO50411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"			395	2025
TOTAL SOUTH APPROACH STEEL REINFORCEMENT										0	
TOTAL SOUTH APPROACH STEEL REINFORCEMENT, EPOXY COATED										20,270	

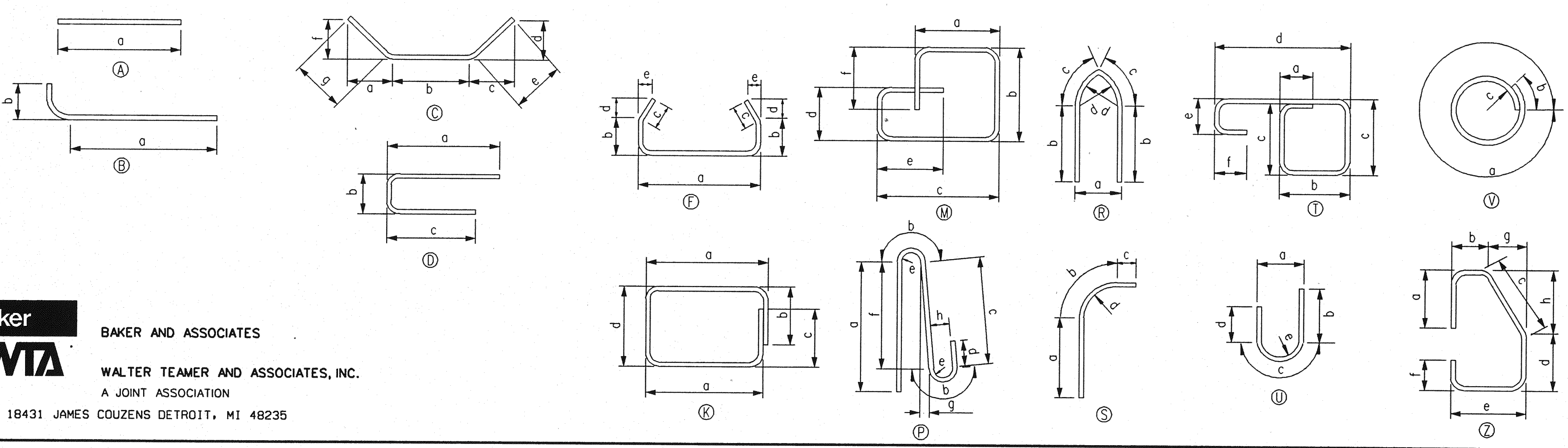
BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.		
	a	b	c	d	e	f	g	h				
TOTAL STEEL REINFORCEMENT												
TOTAL STEEL REINFORCEMENT, EPOXY COATED												

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.		
	a	b	c	d	e	f	g	h				
TOTAL STEEL REINFORCEMENT												
TOTAL STEEL REINFORCEMENT, EPOXY COATED												

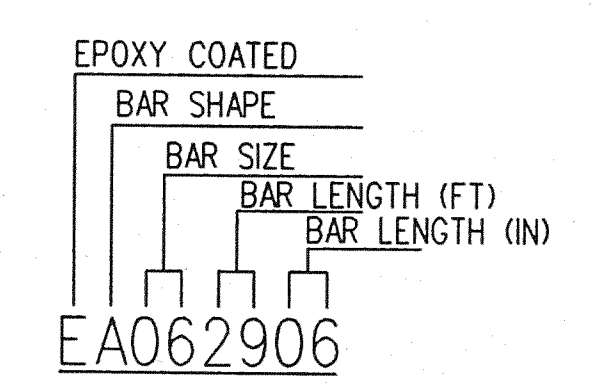
BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g	h			
NORTH APPROACH											
EA030300	3'-0"									100	113
EA040503	5'-3"									100	351
EA042406	24'-6"									6	98
EA043803	38'-3"									124	3168
EC040408	0"	3'-6"	2/8"	1'-3/8"	1'-2"	0"	0"			100	312
EC040508	3"	6"	3"	2'-7"	2'-7"	2'-7"	2'-7"			167	632
EPO40602	2'-5 3/4"	6 1/4"	2'-4"	3 3/4"	1 1/2"	2'-3 3/4"	2 3/4"	3"		450	1854
EZO40307	1'-2 1/2"	4 1/2"	1'-3 3/4"	9 1/4"	0"	0"	9"			500	1197
EZO50309	1'-4 1/2"	3 3/4"	1'-3 3/4"	9"	0"	0"	9"	1'-1"		225	880
EZO50411	1'-7"	3 3/4"	1'-3 3/4"	10"	10 1/2"	0"	9"			150	769
TOTAL NORTH APPROACH STEEL REINFORCEMENT										0	
TOTAL NORTH APPROACH STEEL REINFORCEMENT, EPOXY COATED										9374	

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.		
	a	b	c	d	e	f	g	h				
TOTAL STEEL REINFORCEMENT												
TOTAL STEEL REINFORCEMENT, EPOXY COATED												

BAR	DIMENSIONS								NO. REQ'D	TOTAL WT.		
	a	b	c	d	e	f	g	h				
TOTAL STEEL REINFORCEMENT												
TOTAL STEEL REINFORCEMENT, EPOXY COATED												



NOTES: ALL BENDS IN REINFORCING STEEL TO BE MADE ABOUT A PIN OF THE MINIMUM DIAMETER ALLOWED BY THE STANDARD SPECIFICATION.
 TOLERANCES IN CUTTING AND BENDING BARS ARE AS ESTABLISHED IN MANUAL OF STANDARD PRACTICE OF THE REINFORCING STEEL INSTITUTE AND DETAILING MANUAL OF THE AMERICAN CONCRETE INSTITUTE.
 WHERE FIELD CUTTING OF EPOXY BARS IS REQUIRED, THE CONTRACTOR SHALL REPAIR THE EPOXY COATING AT THE CUT END AS PROVIDED FOR IN SUPPLEMENTAL SPECIFICATION 5.03 (3 SERIES). (INCLUDED IN STEEL REINFORCEMENT, EPOXY COATED.)
 REINFORCEMENT SHALL BE BUNDLED AND TAGGED AS TO THE LOCATION AS SHOWN ON THIS SHEET.



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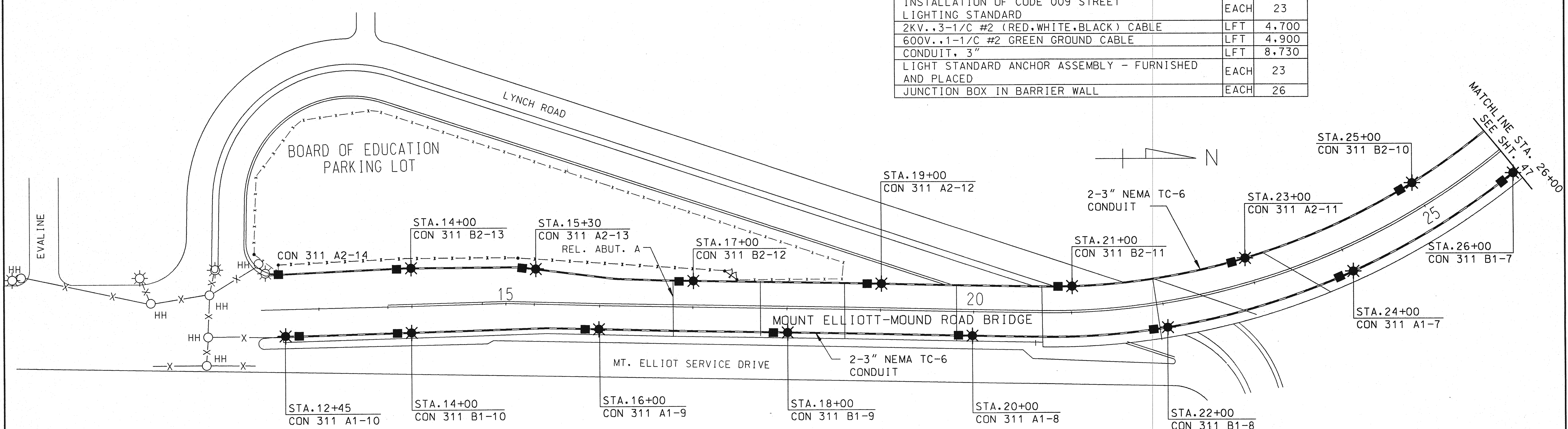
THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 REINFORCEMENT BAR LIST

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SOLID BOSS	NAME	RAL	DATE	1/94
DRAWN BY	NAME	BE	DATE	1/94
CHECKED BY	NAME	RAD	DATE	1/94
SHEET	48	OF	57	
B01 OF 82-22-48				

MAP 3
CIRCUIT - CONNER 311
SET - 50KVA
LOAD - 19KVA
SECTION - 23
PAGE - 507

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
250 WATT HIGH PRESSURE SODIUM LUMINAIRE	EACH	23
REMOVAL OF EXISTING CODE 009 STREET LIGHTING STANDARD	EACH	23
INSTALLATION OF CODE 009 STREET LIGHTING STANDARD	EACH	23
2KV., 3-1/C #2 (RED, WHITE, BLACK) CABLE	LFT	4,700
600V., 1-1/C #2 GREEN GROUND CABLE	LFT	4,900
CONDUIT, 3"	LFT	8,730
LIGHT STANDARD ANCHOR ASSEMBLY - FURNISHED AND PLACED	EACH	23
JUNCTION BOX IN BARRIER WALL	EACH	26



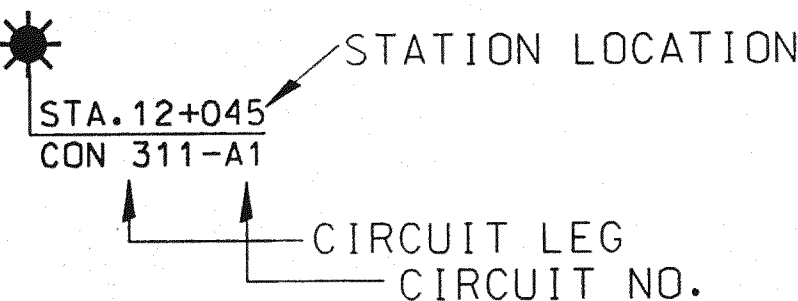
LEGEND

- BUILD 2-3 INCH. NEMA TC-6 PVC CONDUIT AND ENCASE IN BRIDGE BARRIER WALL. CONDUIT RUN BETWEEN JUNCTION BOXES TO BE 2-3 INCH; LATERAL TO LIGHT TO BE 1-3 INCH.
- REMOVE EXISTING CODE 009 STREET LIGHTING STANDARD, 6 FT. BRACKET ARM AND EXISTING 250 W. HPSV, 480 VOLT COBRA HEAD LUMINAIRE. RETURN STANDARD AND BRACKET ARM TO PLD FOR ISSUE OF A NEW STANDARD AND BRACKET ARM, AND RETURN LUMINAIRE TO PLD. INSTALL NEW CODE 009 STANDARD, BRACKET ARM AND CONTRACTOR PROVIDED 250 WATT HIGH PRESSURE SODIUM LUMINAIRE ON NEW BARRIER WALL WITH A 13-1/2 INCH BOLT CIRCLE FOUNDATION. DOUBLE-NUT THE STANDARD.
- JUNCTION BOX IN BARRIER. SEE BRIDGE DRAWING FOR DETAILS.
- EXISTING HANDHOLE TO REMAIN
- EXISTING CONDUIT.
- EXISTING POLE TO REMAIN. (NO WORK REQUIRED)

GENERAL NOTES

- NO "FLEX CONDUIT" IS ALLOWED ON THE PLD SYSTEM.
- NO CONDUIT ENCASEMENT IS TO BE POURED BEFORE IT IS INSPECTED BY THE PLD INSPECTOR (MR. KEN HARDAWAY, PHONE 313-267-6043).
- CONTACT THE PLD SYSTEM OPERATOR AT 313-224-0500 FOR RED-TAG CLEARANCE 36 HOURS BEFORE WORKING ON ANY PLD CIRCUIT.
- CIRCUIT INFORMATION TO BE STENCILED ON ALL STREET LIGHTING STANDARDS. STENCIL THE STANDARDS AS FOLLOWS:

CON 311 B1-9 USE A CONTRASTING - COLOR ENAMEL PAINT



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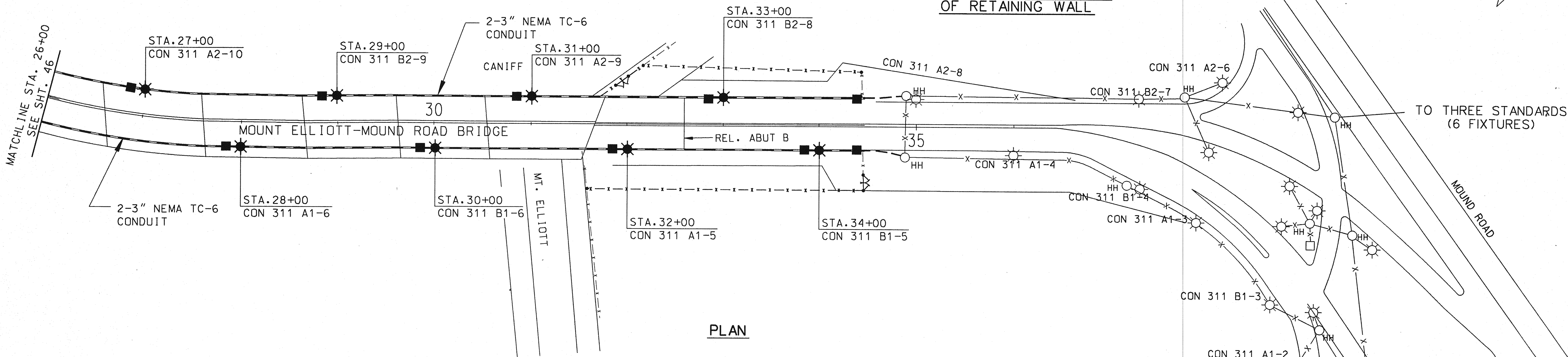
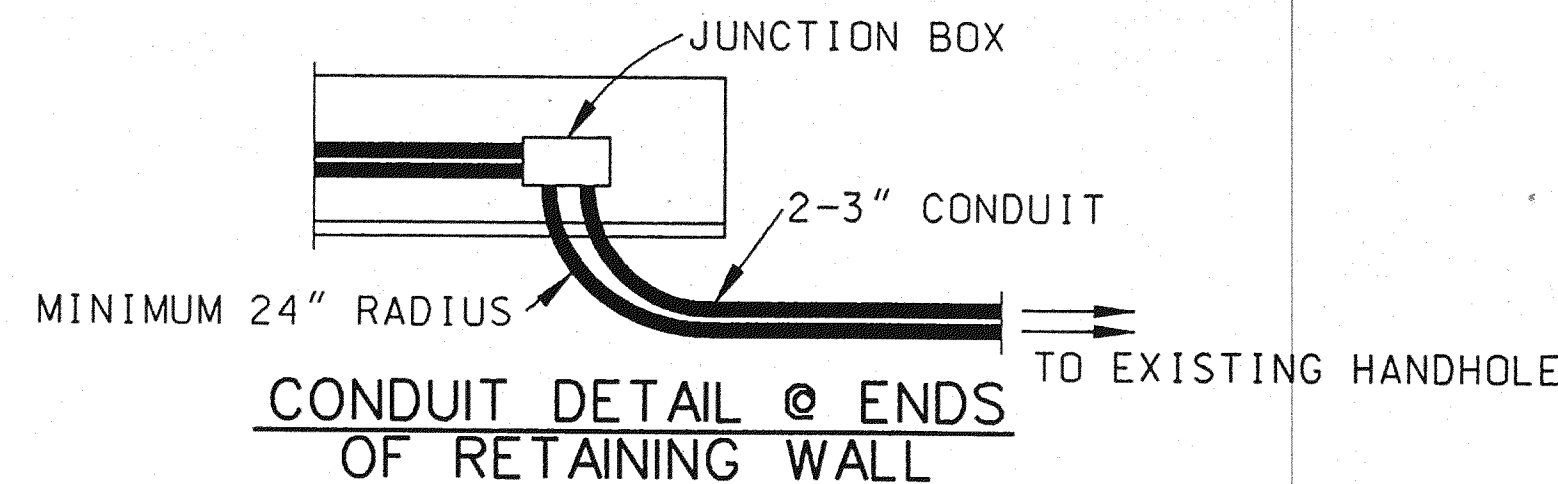
THE CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
LIGHTING DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	GG	DATE	1/94
DRAWN BY	NAME	DLF	DATE	
CHECKED BY	NAME		DATE	
SHEET		49	OF 57	

B01 of 82-22-48

MAP 3
 CIRCUIT - CONNER 311
 SET - 50KVA
 LOAD - 19KVA
 SECTION - 23
 PAGE - 507



PLAN

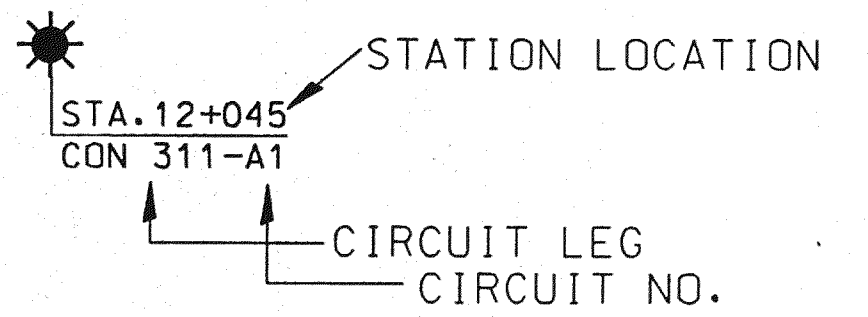
LEGEND

- BUILD 2-3 INCH, NEMA TC-6 PVC CONDUIT AND ENCASE IN BRIDGE BARRIER WALL. CONDUIT RUN BETWEEN JUNCTION BOXES TO BE 2-3 INCH; LATERAL TO LIGHT TO BE 1-3 INCH.
- REMOVE EXISTING CODE 009 STREET LIGHTING STANDARD, 6 FT. BRACKET ARM AND EXISTING 250 W. HPSV, 480 VOLT COBRA HEAD LUMINAIRE. RETURN STANDARD AND BRACKET ARM TO PLD FOR ISSUE OF A NEW STANDARD AND BRACKET ARM, AND RETURN LUMINAIRE TO PLD. INSTALL NEW CODE 009 STANDARD, BRACKET ARM AND CONTRACTOR PROVIDED 250 WATT HIGH PRESSURE SODIUM LUMINAIRE ON NEW BARRIER WALL WITH A 13-1/2 INCH BOLT CIRCLE FOUNDATION. DOUBLE-NUT THE STANDARD.
- JUNCTION BOX IN BARRIER. SEE BRIDGE DRAWING FOR DETAILS.
- EXISTING HANDHOLE TO REMAIN
- EXISTING CONDUIT.
- EXISTING POLE TO REMAIN. (NO WORK REQUIRED)
- EXISTING CONTROL CABINET

GENERAL NOTES

NO "FLEX CONDUIT" IS ALLOWED ON THE PLD SYSTEM.
 NO CONDUIT ENCASEMENT IS TO BE POURED BEFORE IT IS INSPECTED BY THE PLD INSPECTOR (MR. KEN HARDAWAY, PHONE 313-267-6043).
 CONTACT THE PLD SYSTEM OPERATOR AT 313-224-0500 FOR RED-TAG CLEARANCE 36 HOURS BEFORE WORKING ON ANY PLD CIRCUIT.
 CIRCUIT INFORMATION TO BE STENCILED ON ALL STREET LIGHTING STANDARDS.
 STENCIL THE STANDARDS AS FOLLOWS:

CON 311 B1-9 USE A CONTRASTING - COLOR ENAMEL PAINT



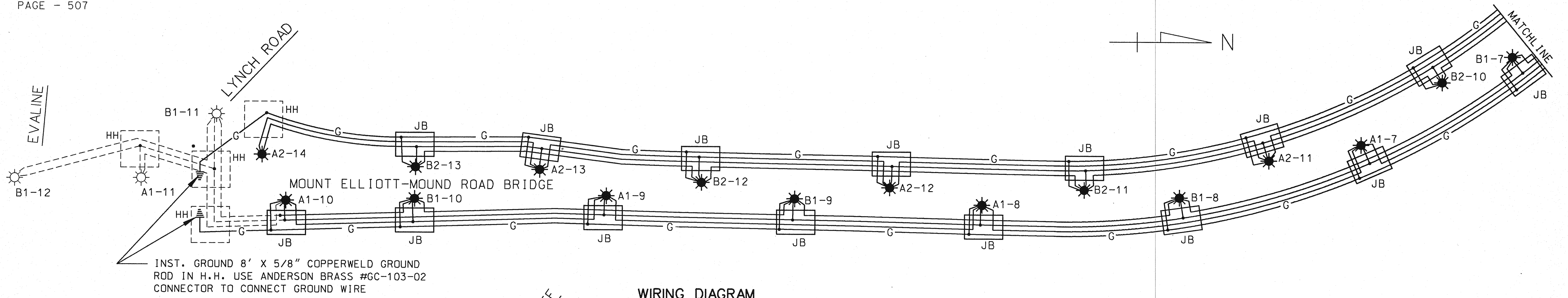
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THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 LIGHTING DETAILS

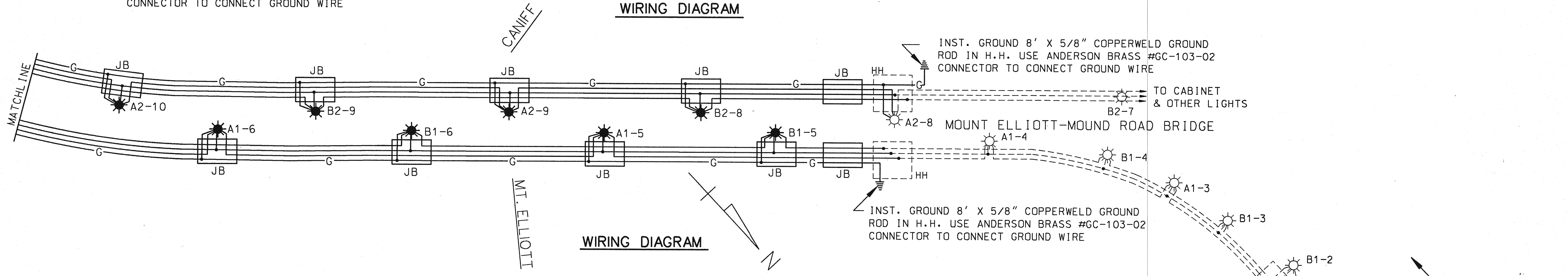
REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	GG
DRAWN BY	NAME	DLF
CHECKED BY	NAME	DATE
SHEET 50 OF 57		
B01 of 82-22-48		

MAP 3
CIRCUIT - CONNER 311
SET - 50KVA
LOAD - 19KVA
SECTION - 23
PAGE - 507



WIRING DIAGRAM



WIRING DIAGRAM

LEGEND

- EXIST ST. LTG. STD. (NOT AFFECTED BY CONSTRUCTION)
- 250 WATT HIGH PRESSURE SODIUM LUMINAIRE (ON NEW CODE 009 STD. WITH 6' CLAMP ON BRACKET ARM)
- INST. (3)-1/C #6, 2KV RATED MULT. ST. LTG. CABLES (TAG "CON. 311.")
- EXIST. (3)-1/C #6, 600V LEAD-COVERED MULT. ST. LTG. CABLES
- EXISTING HANDHOLE OR MANHOLE
- PROPOSED JUNCTION BOX IN NEW BARRIER WALL

NOTES

- CABLE TAGS PROVIDED BY THE P.L.D.
- COLOR CODE**
A=RED
B=BLACK
N=WHITE

GENERAL NOTES

- NO "FLEX CONDUIT" IS ALLOWED ON THE PLD SYSTEM.
- NO CONDUIT ENCASUREMENT IS TO BE POURED BEFORE IT IS INSPECTED BY THE PLD INSPECTOR (MR. KEN HARDAWAY, PHONE 313-267-6043).
- CONTACT THE PLD SYSTEM OPERATOR AT 313-224-0500 FOR RED-TAG CLEARANCE 36 HOURS BEFORE WORKING ON ANY PLD CIRCUIT.
- CIRCUIT INFORMATION TO BE STENCILED ON ALL STREET LIGHTING STANDARDS. STENCIL THE STANDARDS AS FOLLOWS:

CON 311 B1-9 USE A CONTRASTING - COLOR ENAMEL PAINT

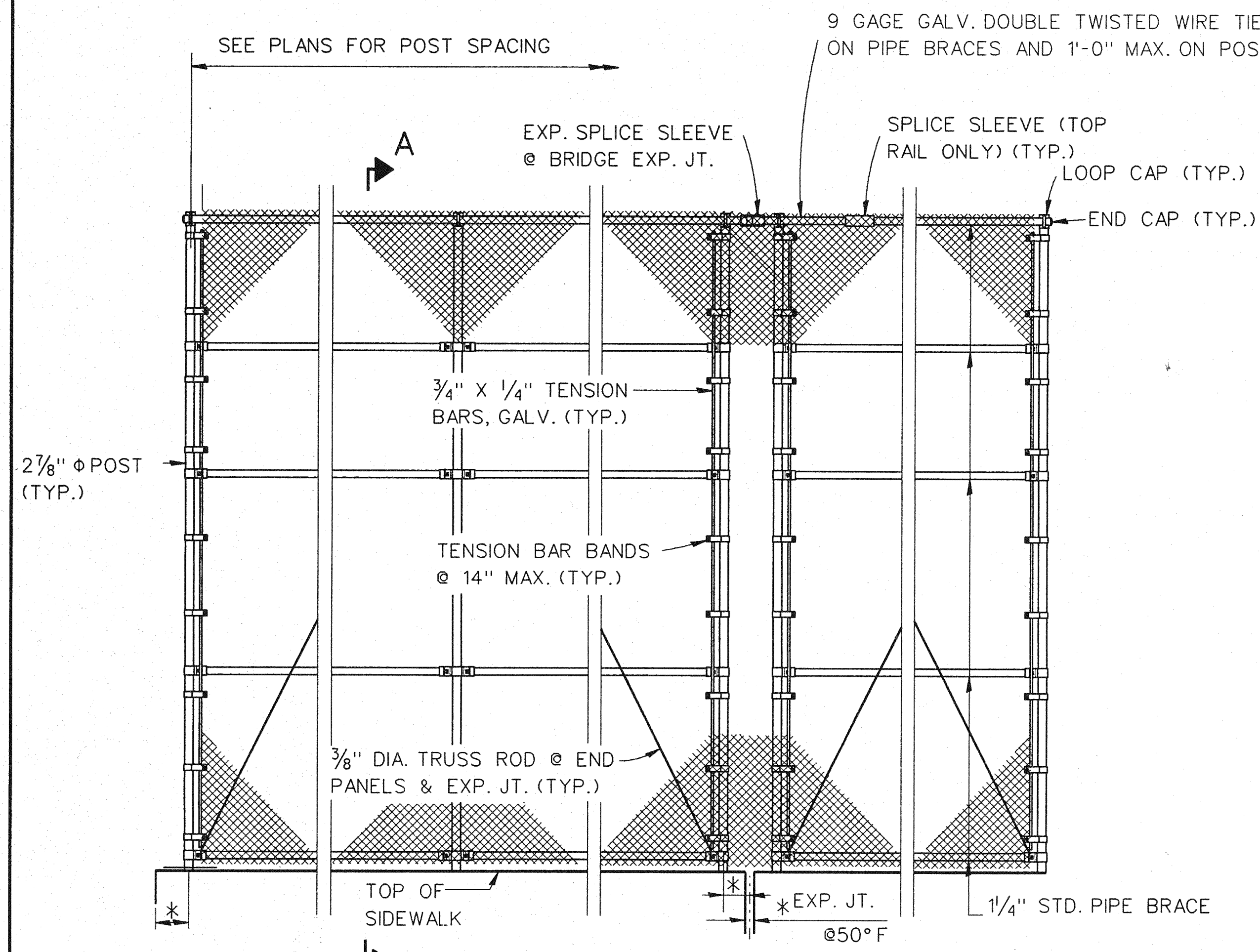
REVISIONS			
NO.	DESCRIPTION	DATE	BY

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

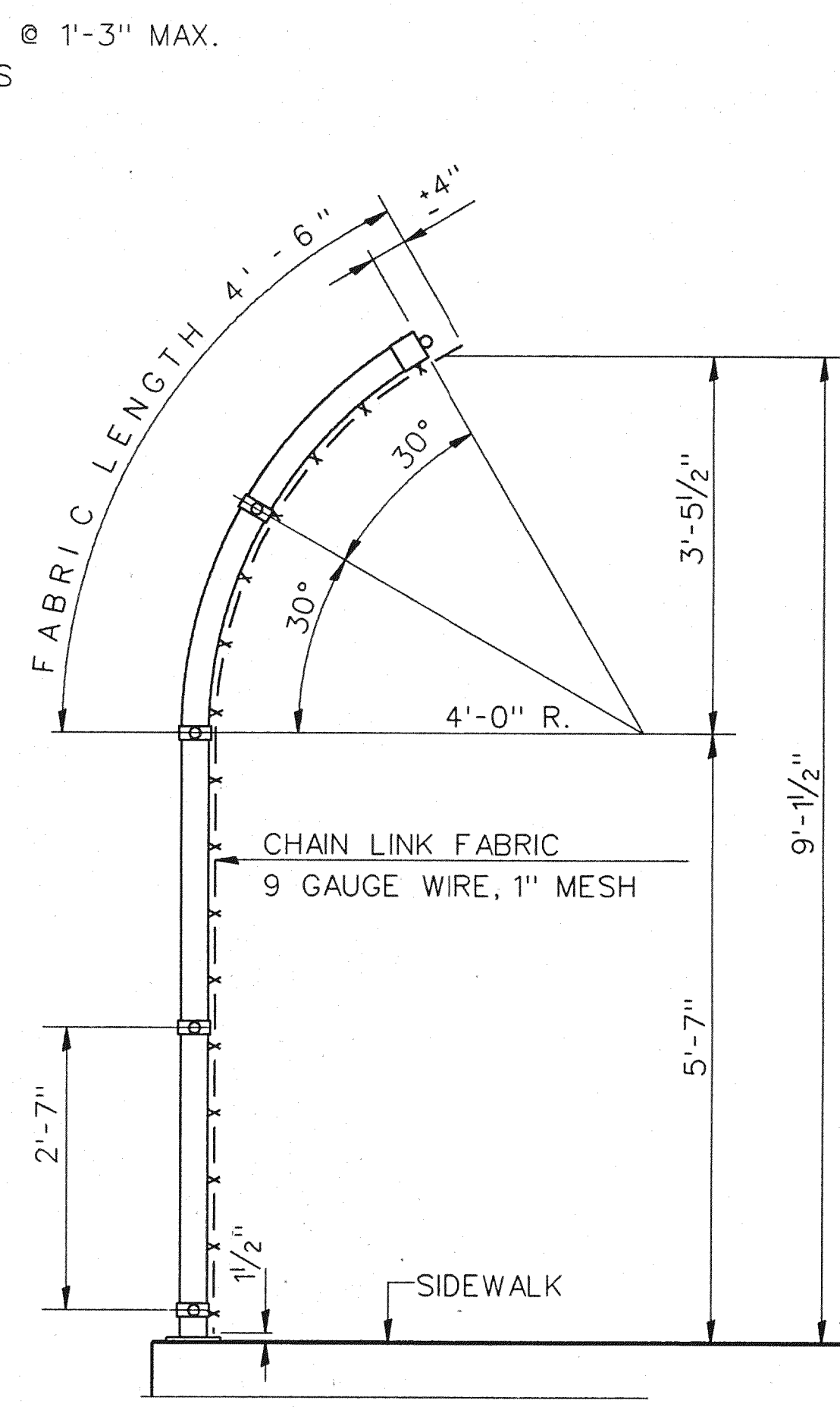
SQUAD BOSS	NAME	GG	DATE	3/94
DRAWN BY	NAME	DLF	DATE	
CHECKED BY	NAME		DATE	
SHEET		51	OF	57

B01 of 82-22-48

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ELEVATION
(INSIDE FACE)



SECTION A-A

NOTES:

EXTEND FABRIC ACROSS EXP. JTS. TO ALLOW 2 1/2" (@50°F) OF SLACK IN THE FABRIC BETWEEN TENSION BARS. ADJUSTMENTS MAY BE MADE DUE TO TEMPERATURE AT THE DIRECTION OF THE ENGINEER.

FENCE POSTS SHALL BE GALVANIZED 2 1/2" (2.875" O.D.) STEEL PIPE IN CONFORMANCE WITH ASTM F1083, SCHEDULE 40.

THE MAX. POST SPACING FOR 1" MESH SHALL NOT EXCEED 8'-0".

POSTS SHALL BE SHOP FABRICATED AS SHOWN ON THE PLANS.

ALL COMPONENTS ARE TO BE GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-153 AFTER FABRICATION.

ALL CHAIN LINK FENCE FABRIC SHALL BE FURNISHED WITH KNUCKLING AT BOTH SELVAGES.

CARE SHALL BE TAKEN TO THAT DEBRIS DOES NOT FALL FROM THE STRUCTURE.

THE PAY LIMITS FOR "PEDESTRIAN FENCING-STRUCTURES" IS MEASURED FROM 1 1/2" FROM TOP OF SIDEWALK TO 4" EXTENDED PAST TOP RAIL OF FENCE.

THE PEDESTRIAN FENCING SHALL CONFORM TO THE M.D.O.T. SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 1990 EDITION.

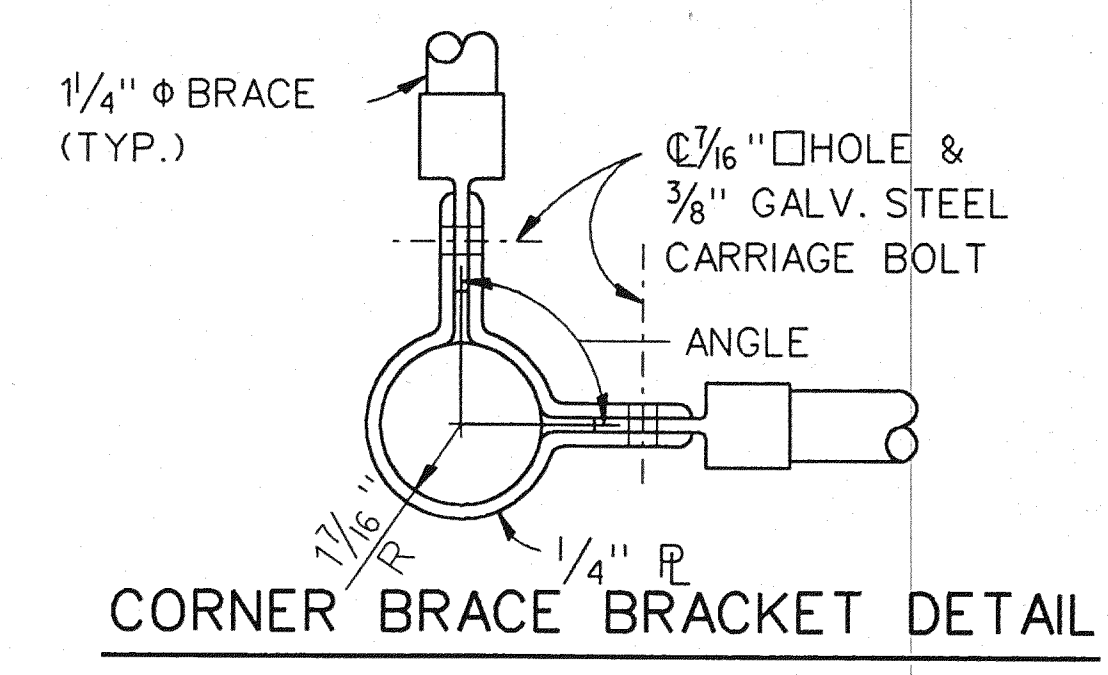
BRACES SHALL NOT BE SPLICED.

DIMENSIONS ARE HORIZONTAL ALONG C FENCING.

CONTRACTOR SHALL VERIFY FIELD CONDITIONS BEFORE FABRICATING.

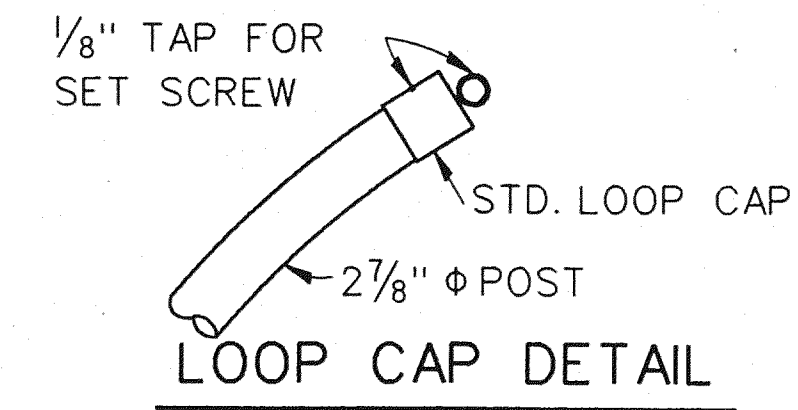
TENSION BARS SHALL BE 3/4" X 1/4" GALVANIZED STEEL.

THE ITEM "PEDESTRIAN FENCING-STRUCTURES" INCLUDES CHAIN LINK FABRIC, POSTS, PIPE BRACES, BRACKETS, ANCHORS, SUITABLE CONNECTIONS, AND FITTINGS.

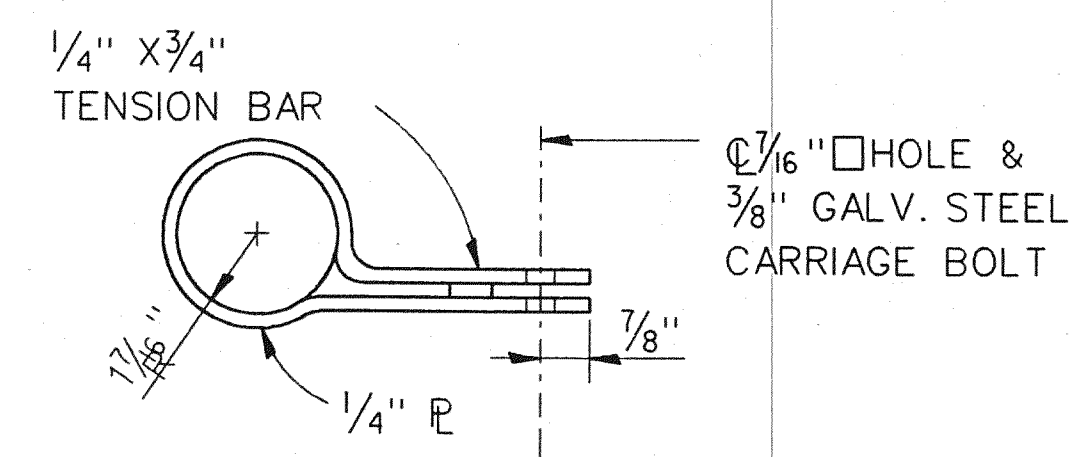


CORNER BRACE BRACKET DETAIL

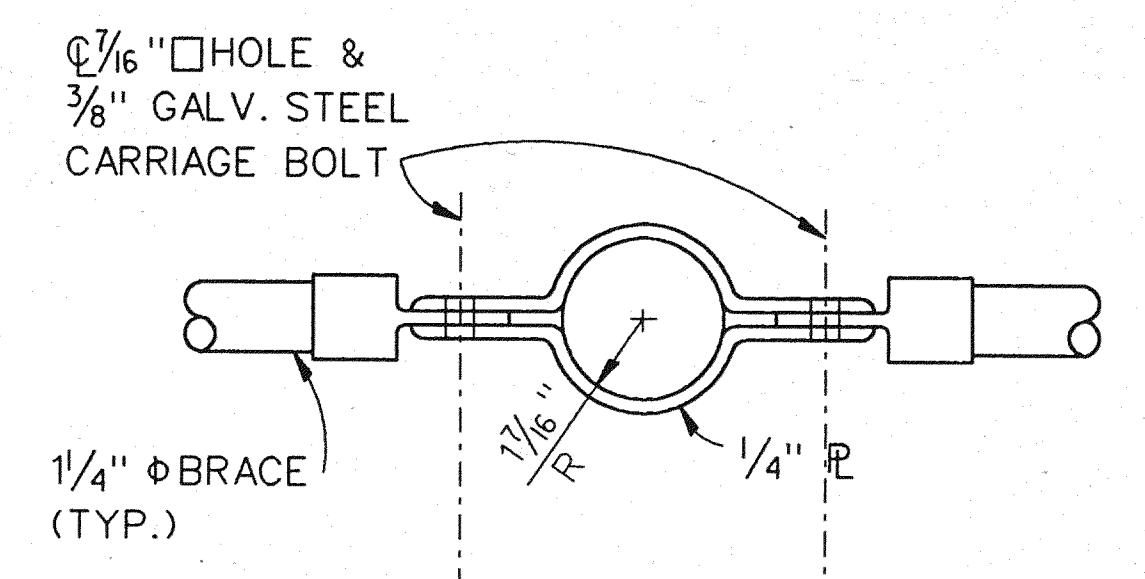
ANGLE-90° @ PIER 4 & 115° @ PIER 15



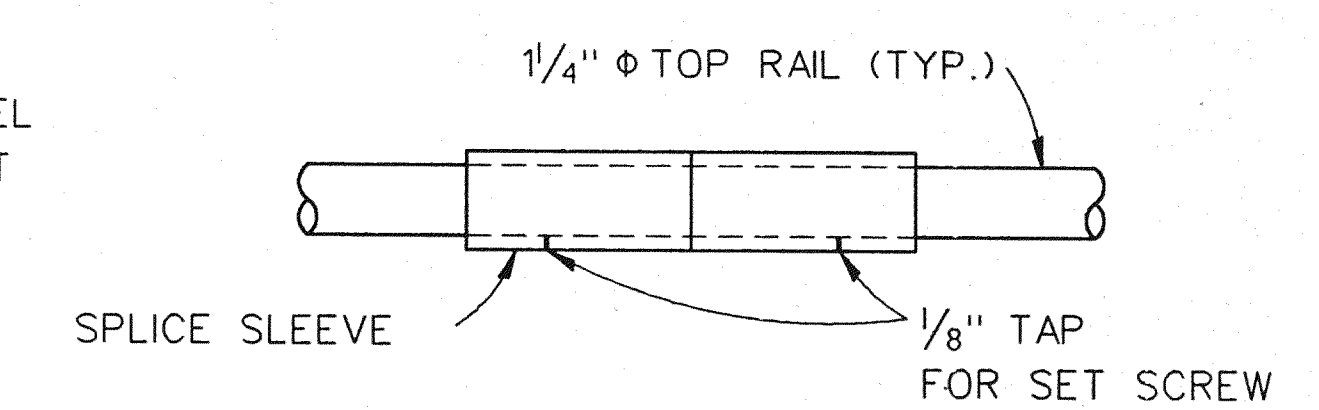
LOOP CAP DETAIL



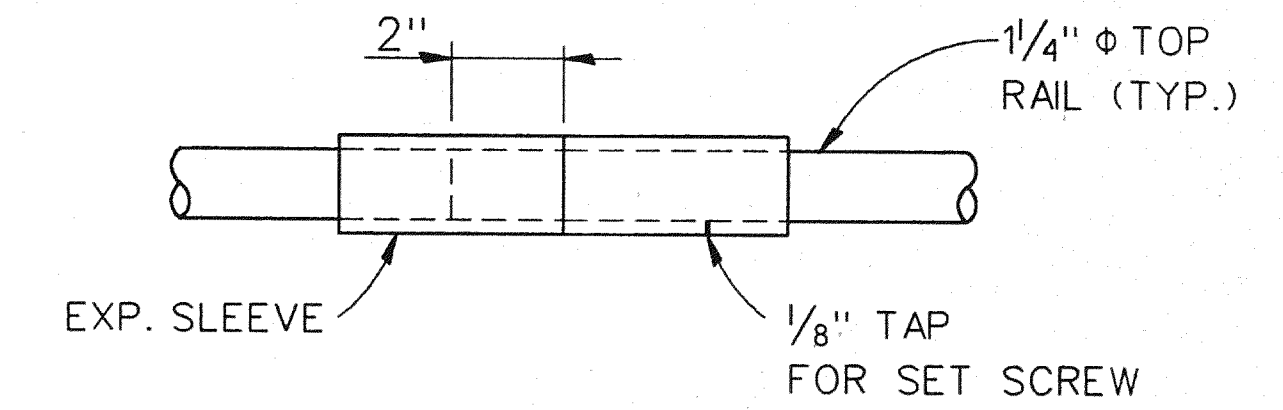
TENSION BAR BAND DETAIL



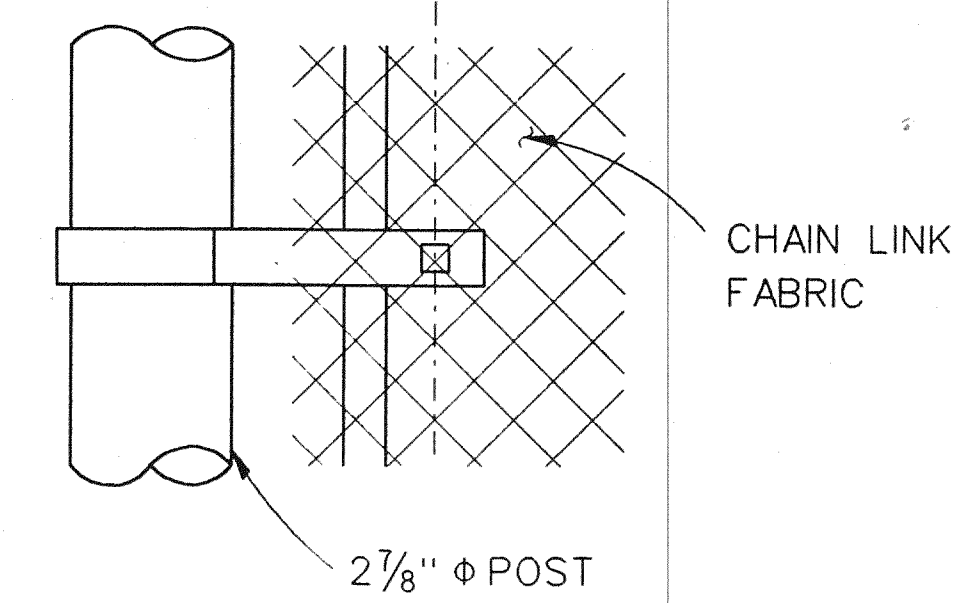
INTERMEDIATE BRACE BRACKET DETAIL



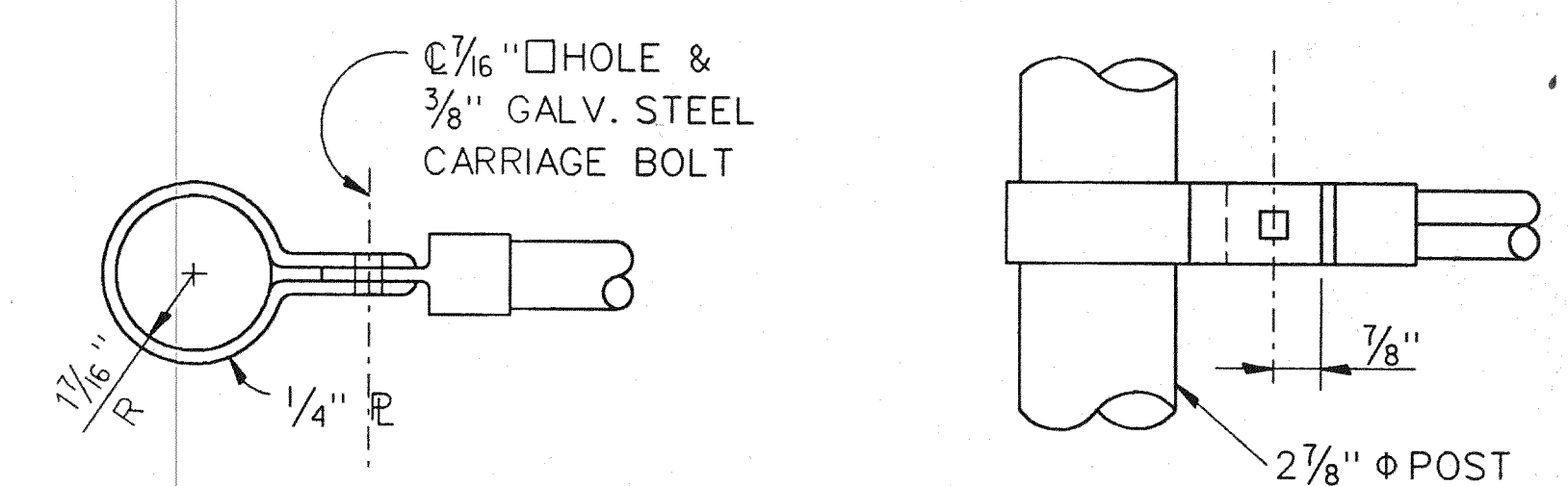
SPLICE SLEEVE DETAIL



EXPANSION SLEEVE DETAIL



TENSION BAR BAND DETAIL



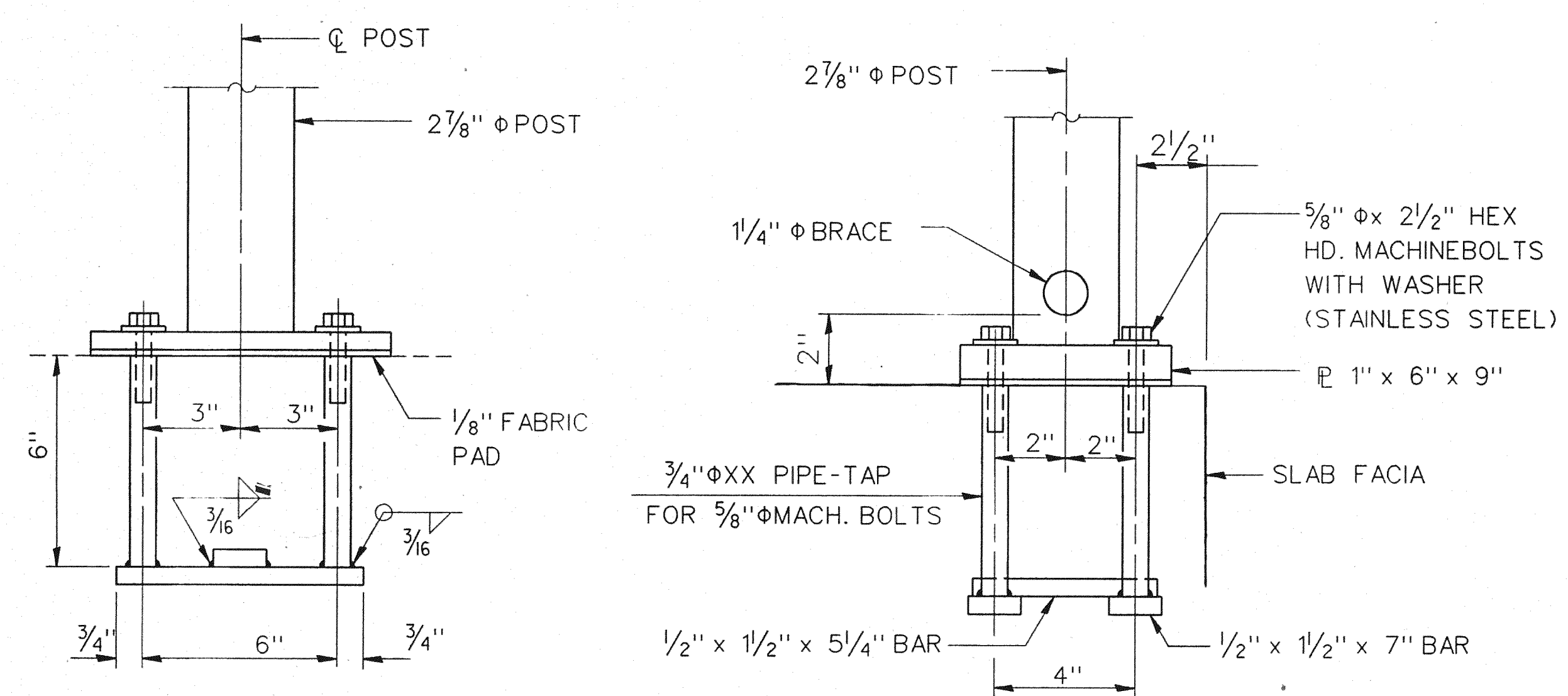
TERMINAL BRACE BRACKET DETAIL

NOTES:

MANUFACTURER'S STANDARD CONNECTIONS MAY BE SUBSTITUTED SUBJECT TO THE APPROVAL OF THE ENGINEER.

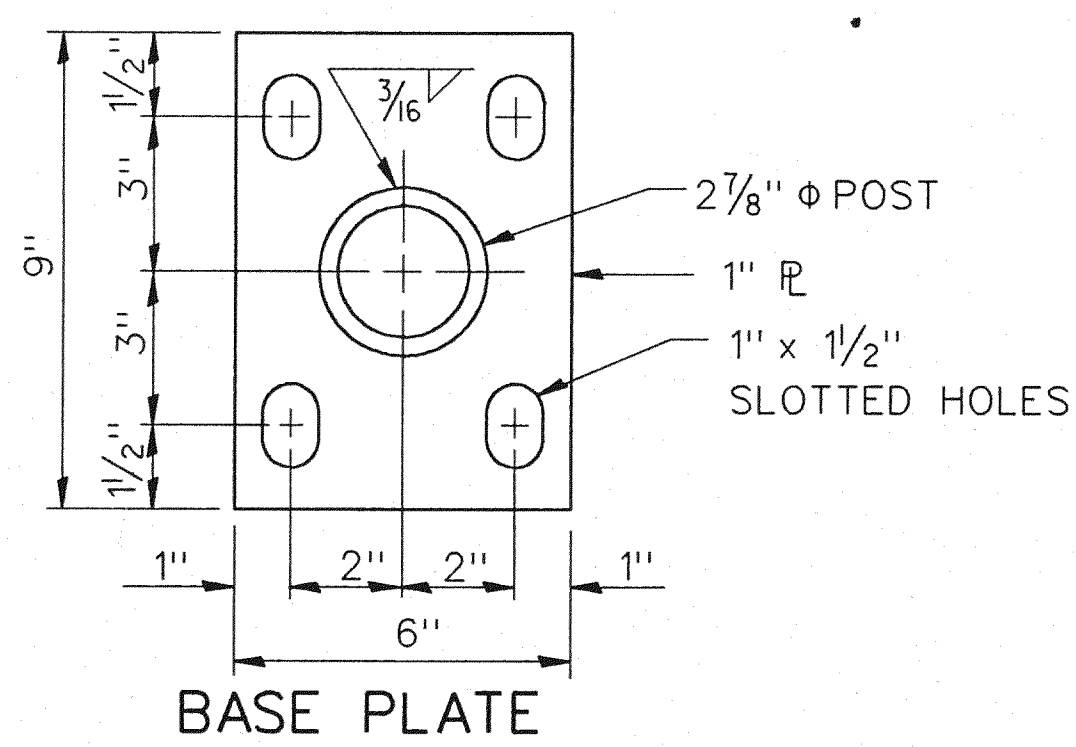
TOP RAIL SHALL BE CONTINUOUS OVER NOT LESS THAN TWO INTERMEDIATE POSTS, EXCEPT THAT A SHORTED LENGTH IS PERMITTED AT EXPANSION JOINTS.

CHAIN LINK FABRIC 9 GAGE WIRE, TO BE 1" MESH.



ANCHOR BOLT DETAILS

* Variable - See Plans
(8'-0" Maximum Post Spacing)



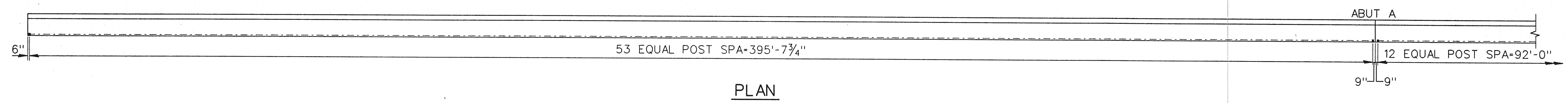
BASE PLATE

QUANTITY		
ITEM	UNIT	AMOUNT
PEDESTRIAN FENCING-STRUCTURES	SFT	22,113

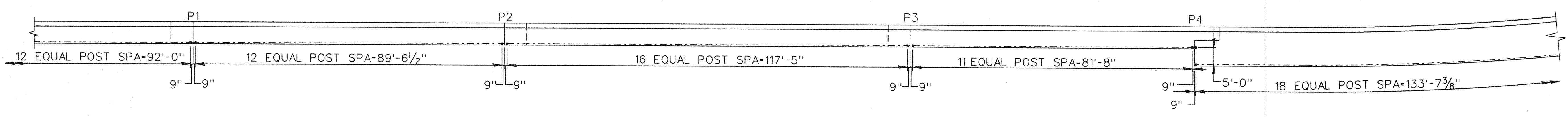
REVISIONS			
NO.	DESCRIPTION	DATE	BY

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

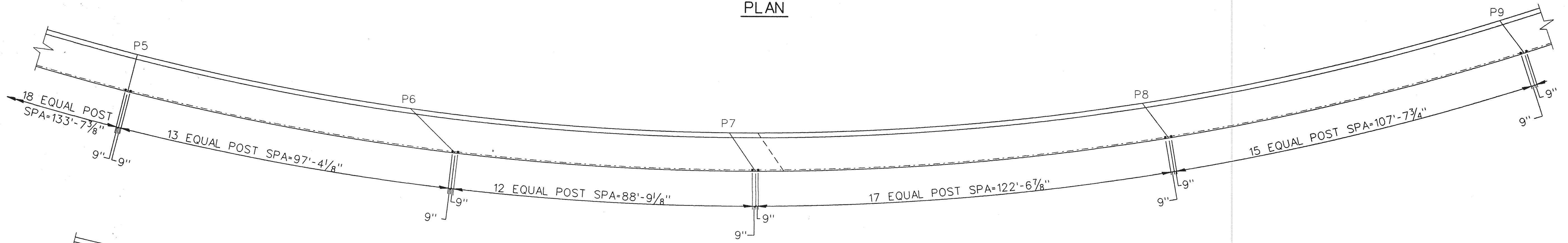
SQUAD BOSS	NAME	RAW	DATE



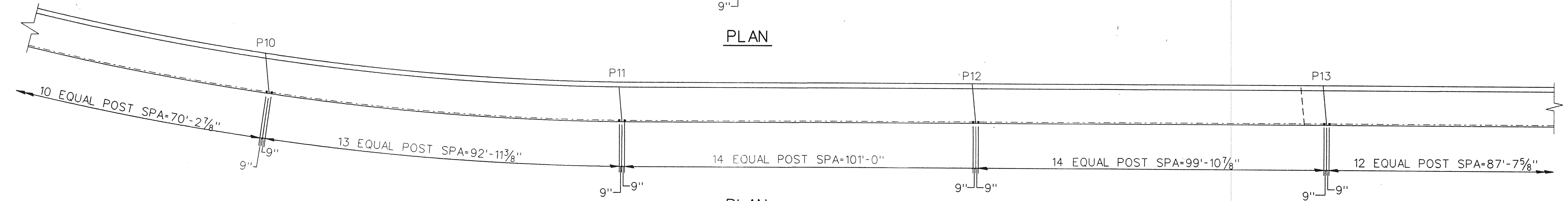
PLAN



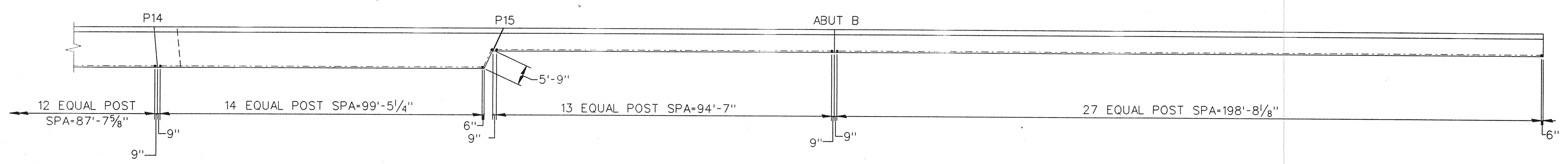
PLAN



PLAN



PLAN



PLAN

**OPEN DECK JOINTS DIMENSIONS
END OF SIDEWALK**

LOCATION	LOCATION	LOCATION
PIER 1 1/2"	PIER 6 2 1/2"	PIER 11 1/2"
PIER 2 1/2"	PIER 7 1 3/4"	PIER 12 1/2"
PIER 3 1/2"	PIER 8 1 3/4"	PIER 13 1/2"
PIER 4 1/2"	PIER 9 1 5/8"	PIER 14 1/2"
PIER 5 1/2"	PIER 10 1/2"	

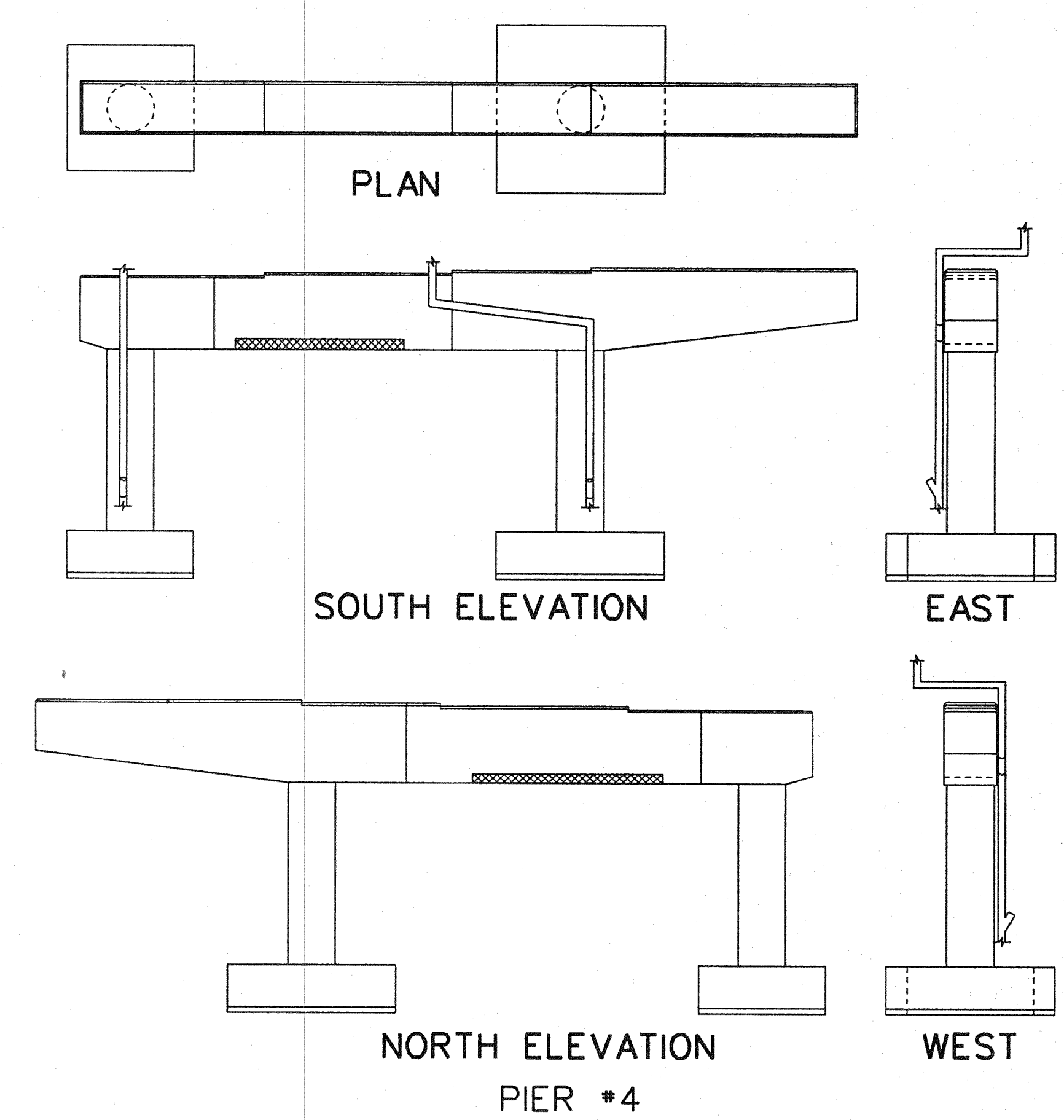
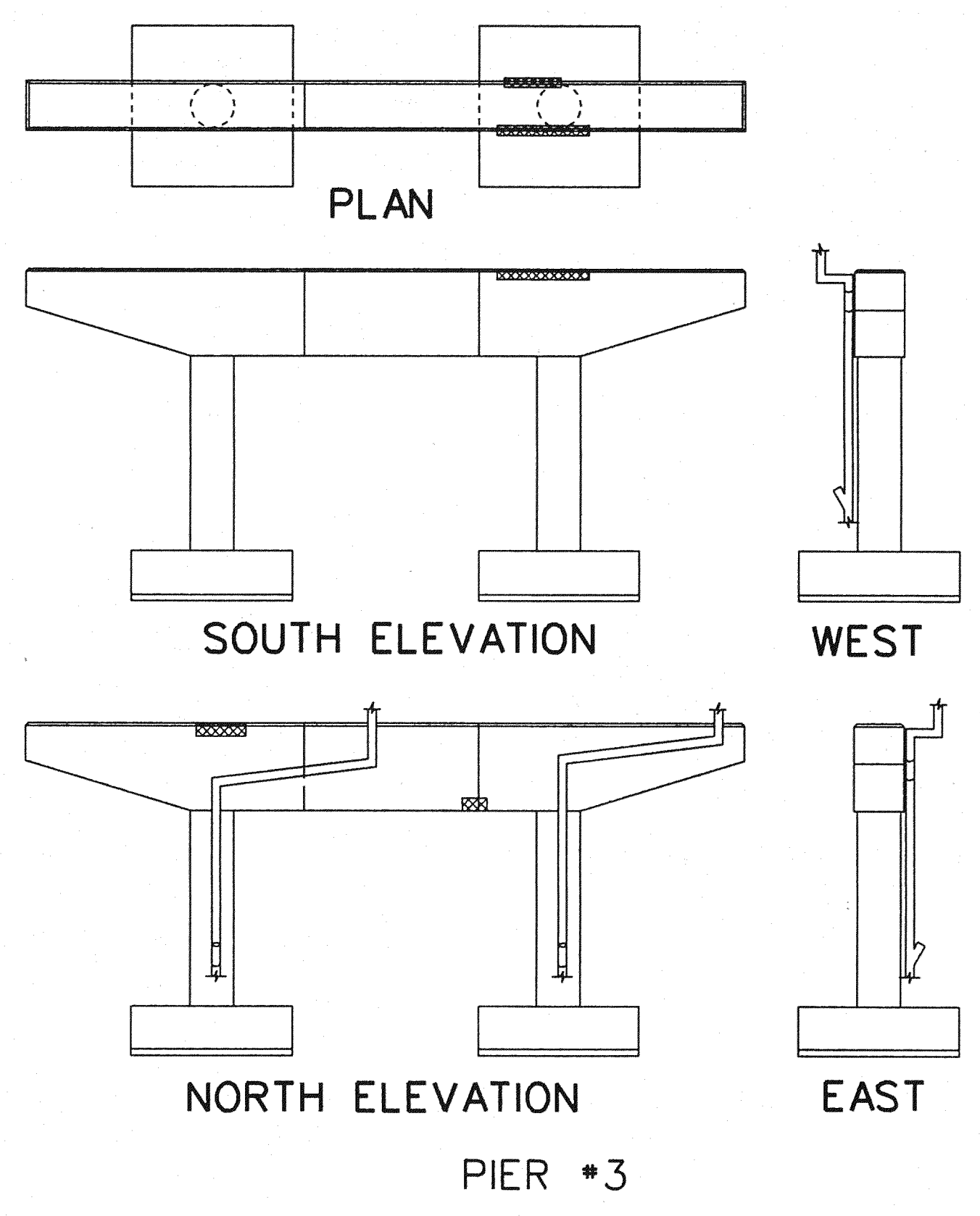
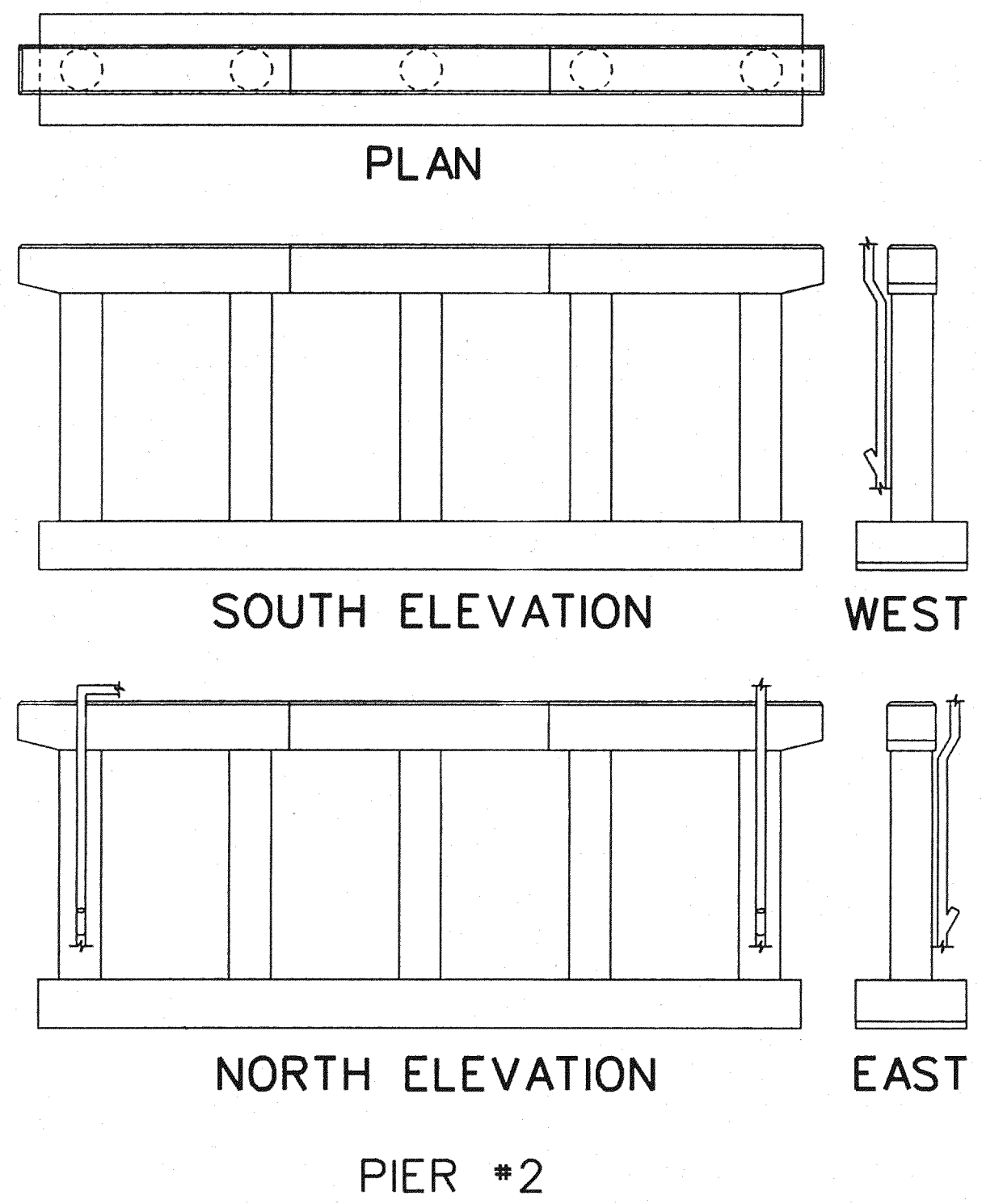
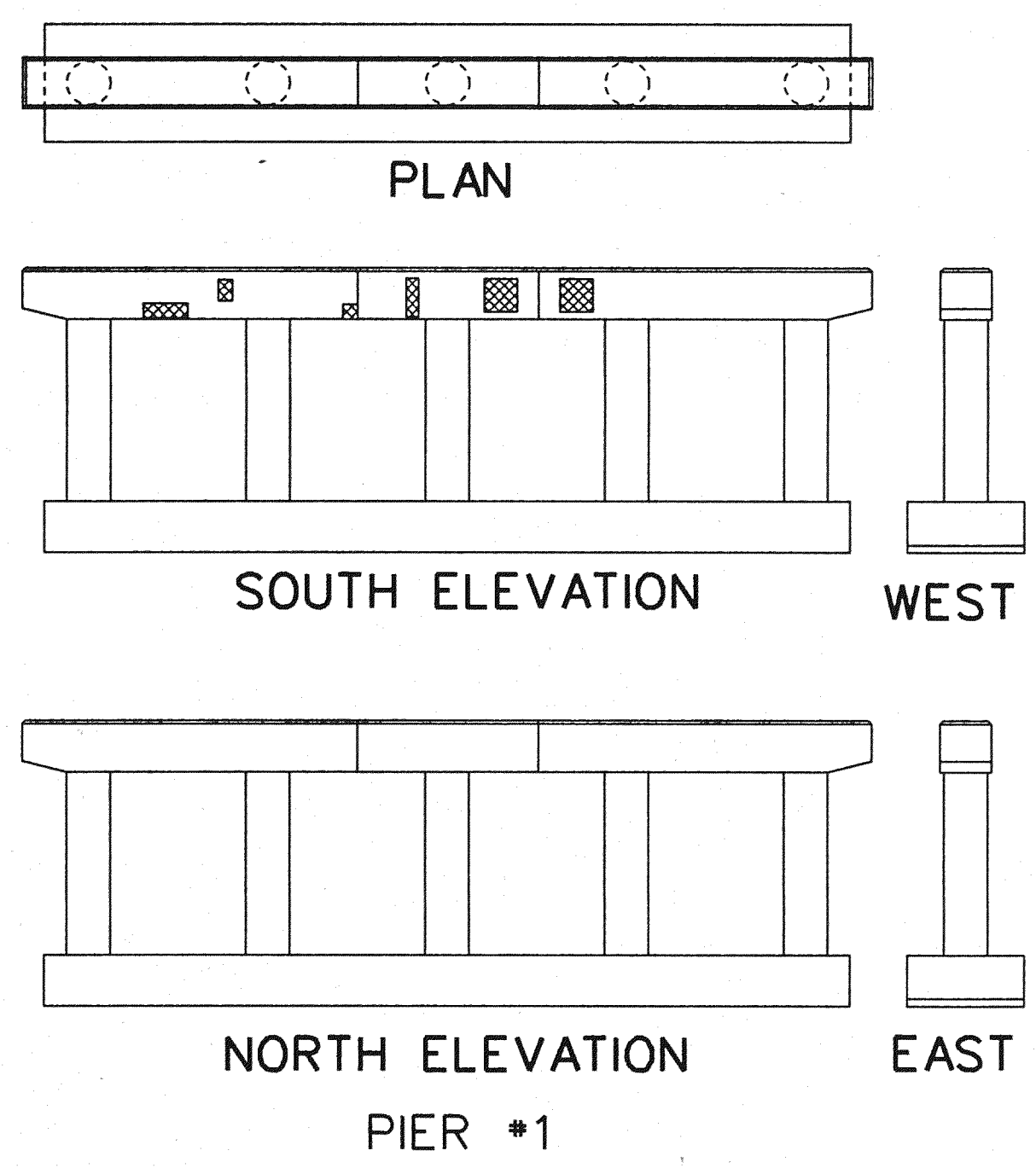
NOTE:
WORK THIS SHEET WITH SHEET 52.

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 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 PEDESTRIAN FENCING DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET 53 OF 57		
B01 of 82-22-48		



NOTES
 CONCRETE IN AREAS TO BE PATCHED SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 ALL SURFACES OF ALL PIERS SHALL BE GIVEN AN APPLICATION OF PENETRATING WATER REPELLENT TREATMENT.

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
EPOXY MORTAR OR CONCRETE FOR PATCHING	CFT	36
PENETRATING WATER REPELLENT TREATMENT	SYD	113
REPAIRING STRUCTURAL CRACKS	LFT	0
FORMING FOR PATCHES	SFT	142
HAND CHIPPING - OTHER THAN DECK	CFT	36

LEGEND
 Y - DENOTES CRACK SEALING
 [Hatched Box] - DENOTES CONCRETE REPAIR
 [Circle with dots] - DENOTES ROCK POCKETS

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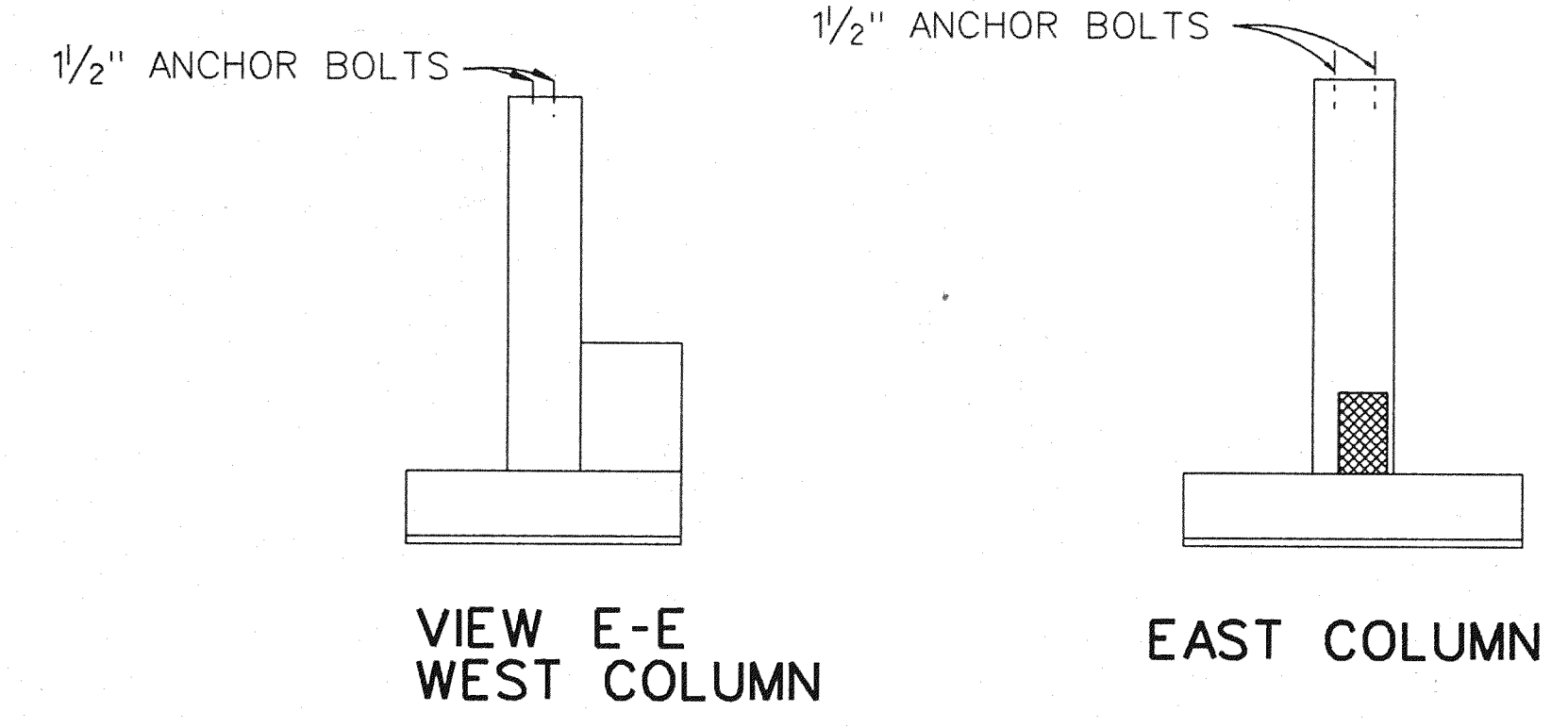
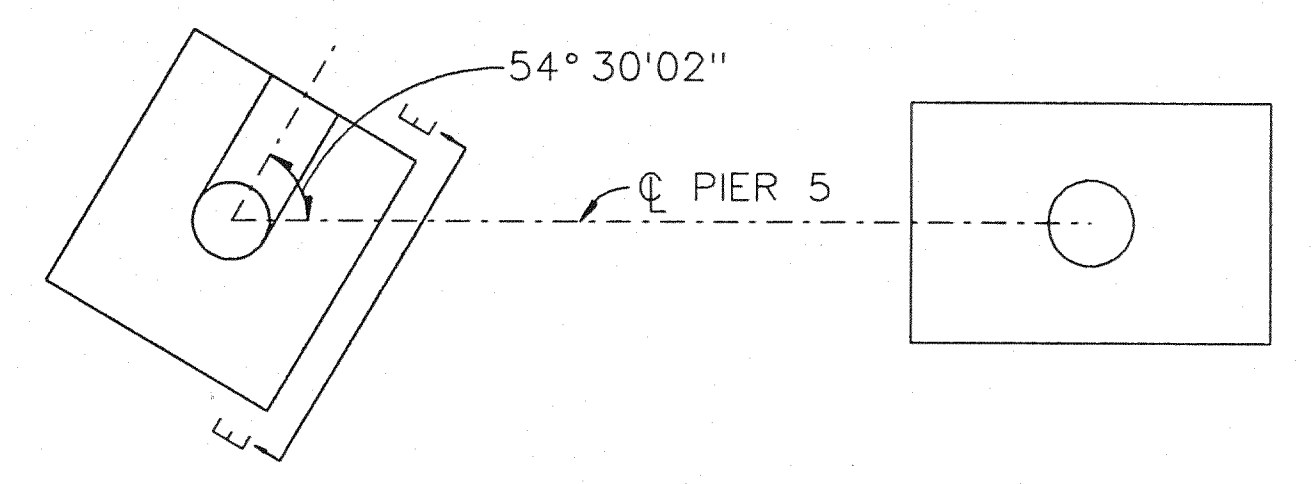
THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SUBSTRUCTURE REPAIRS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

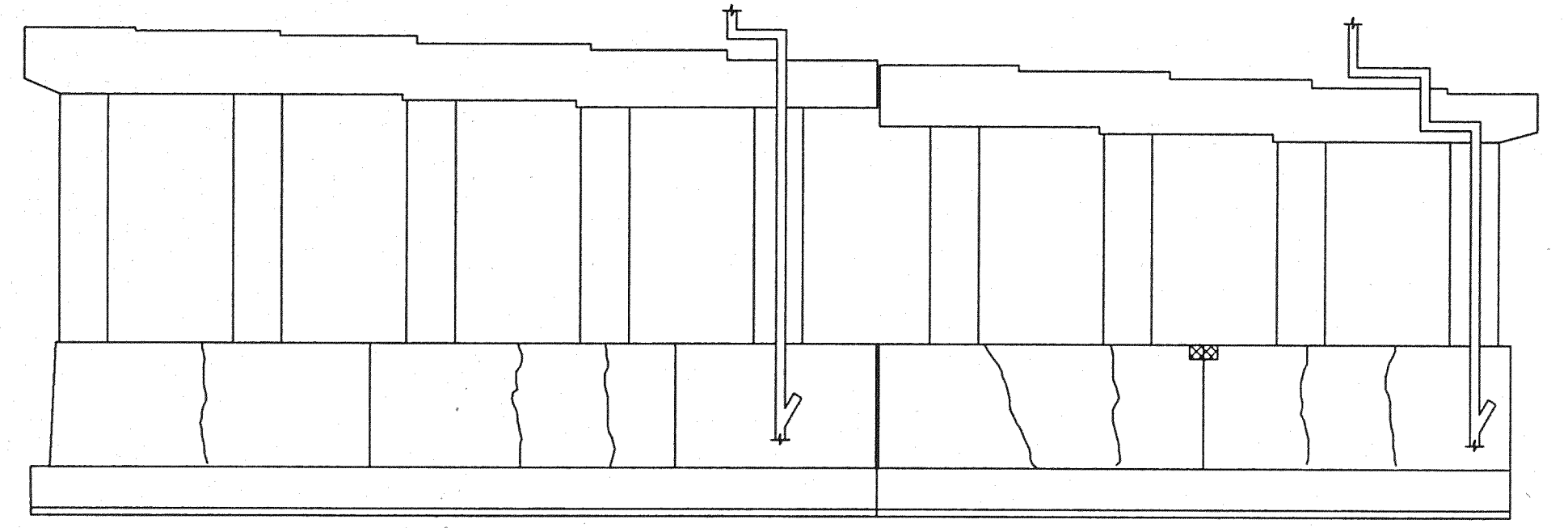
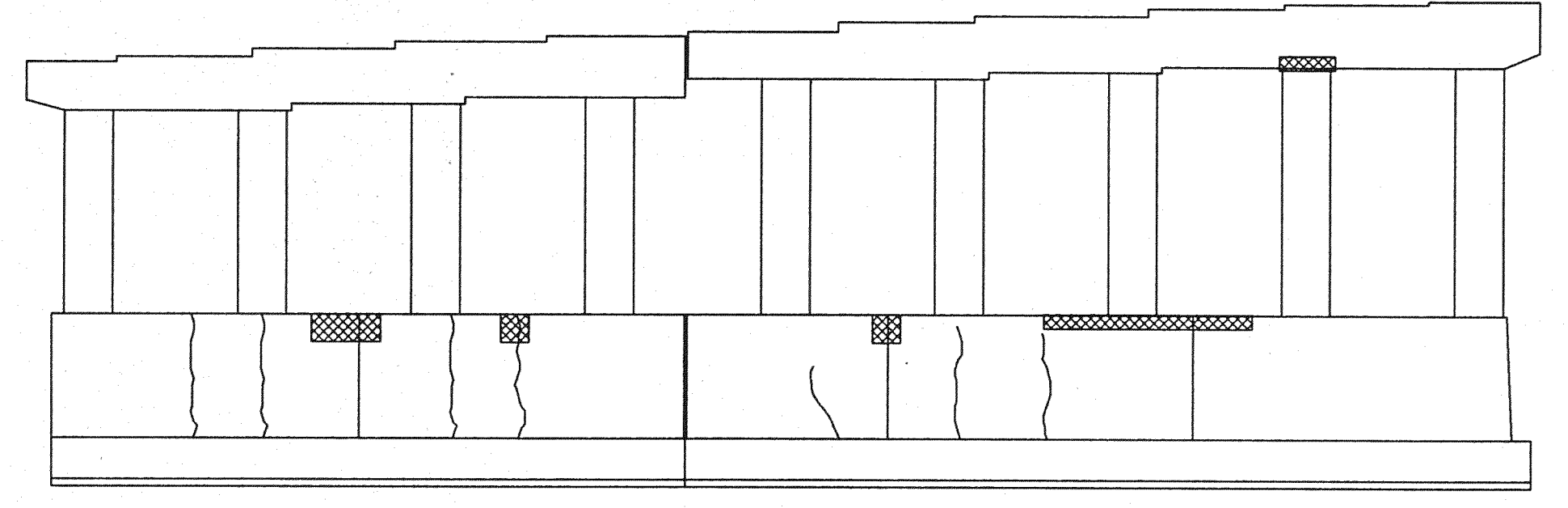
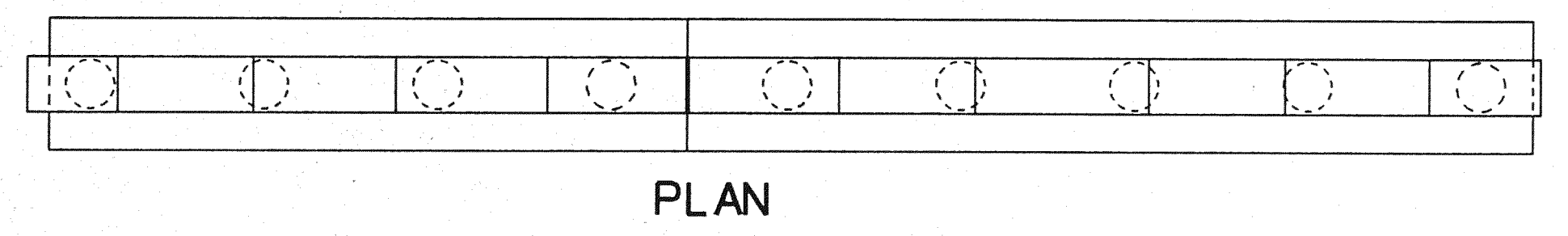
SQUAD BOSS	NAME	DATE

CHECKED BY	NAME	RAW	DATE

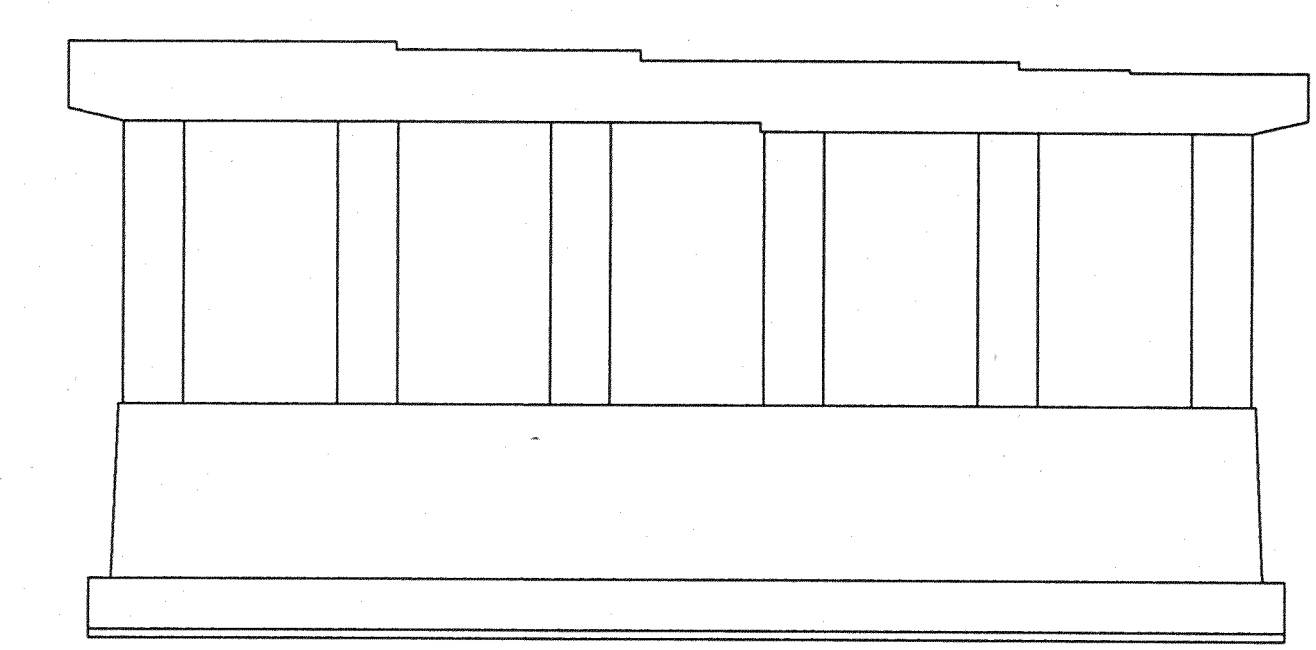
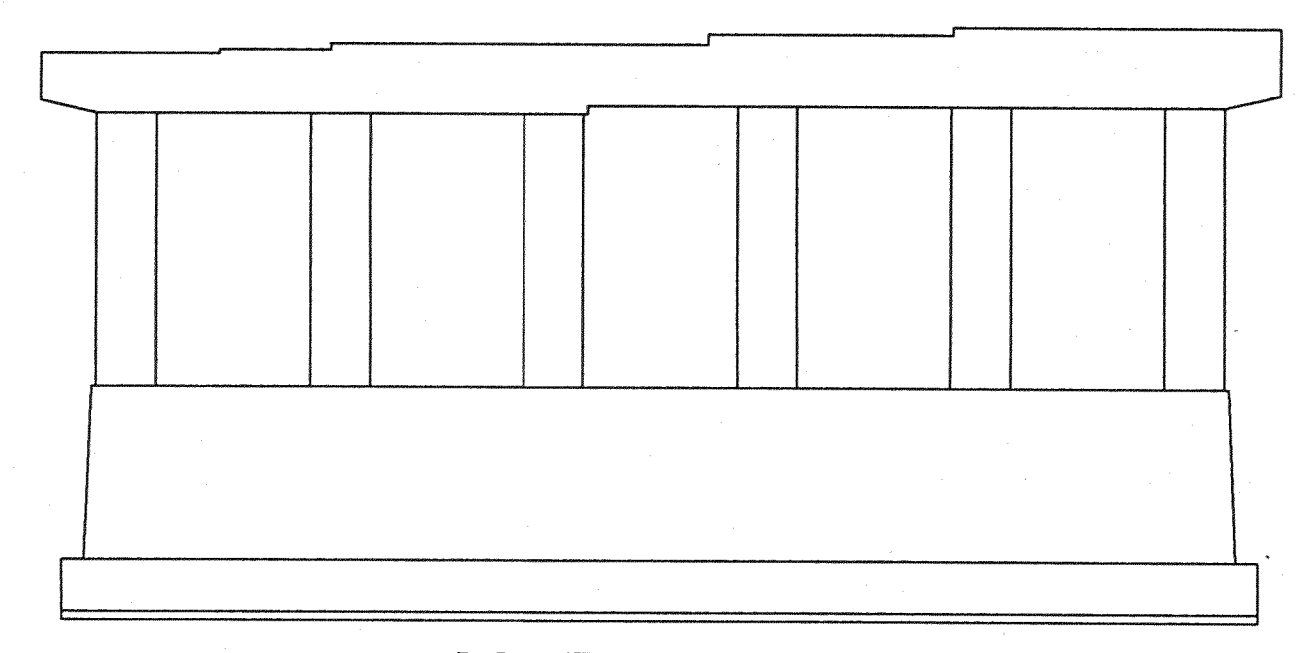
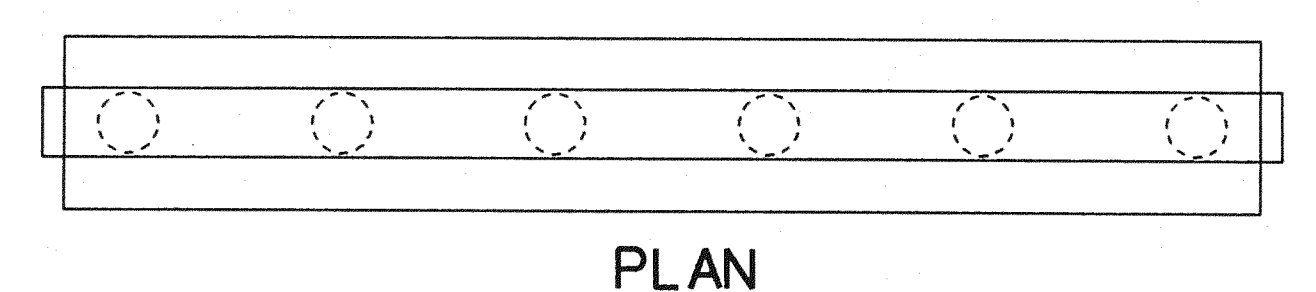
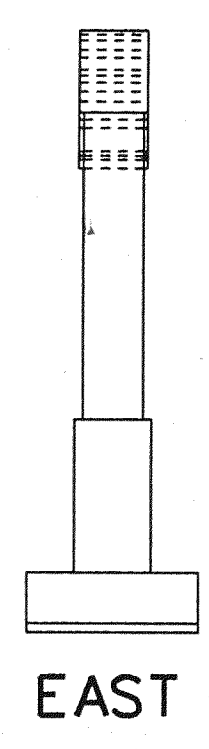
SHEET 54 OF 57
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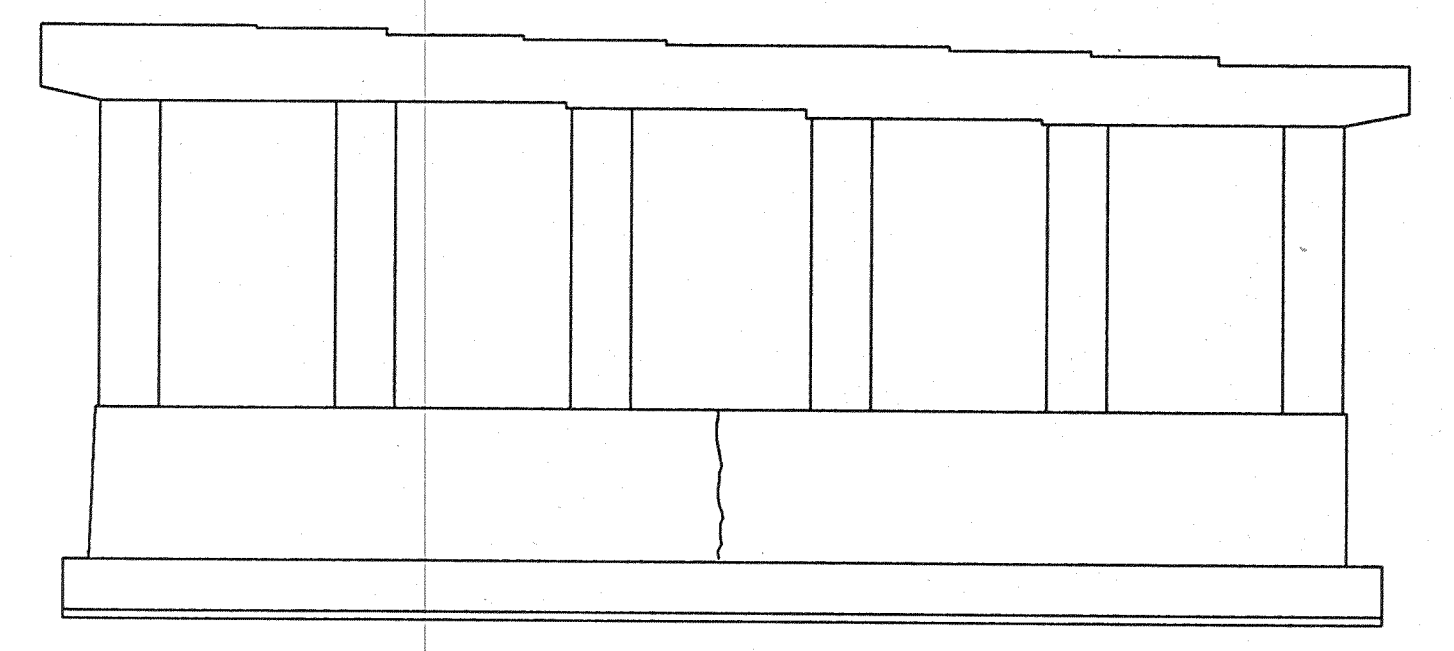
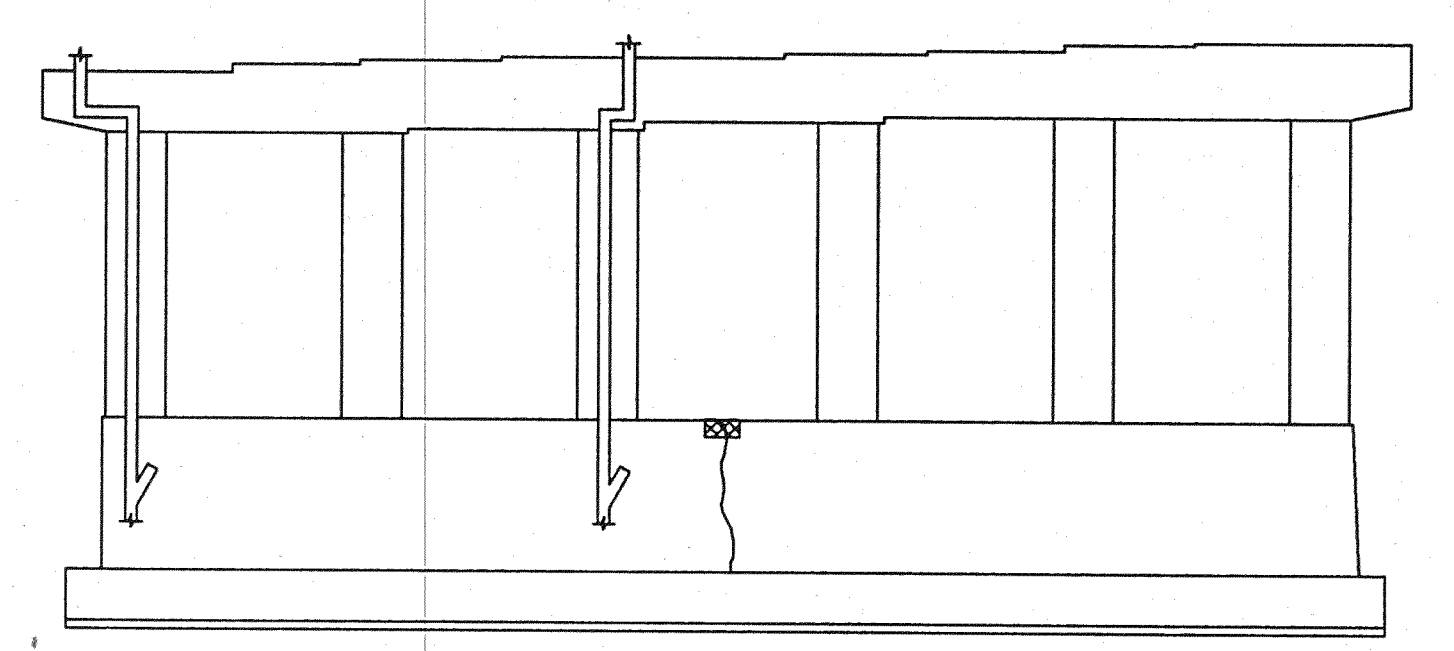
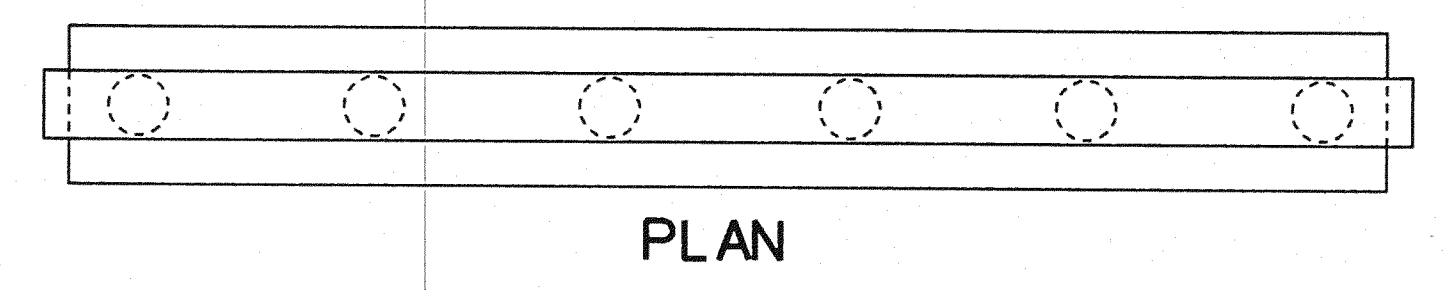
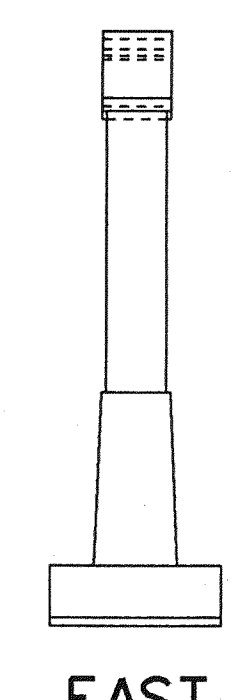
PIER #5



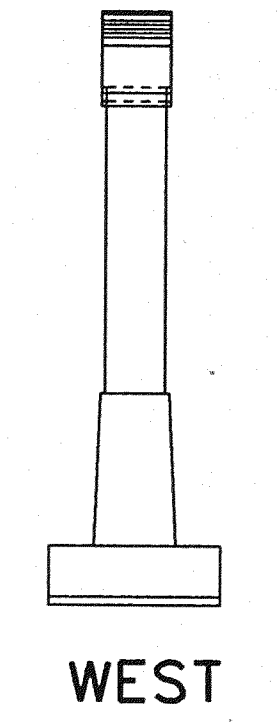
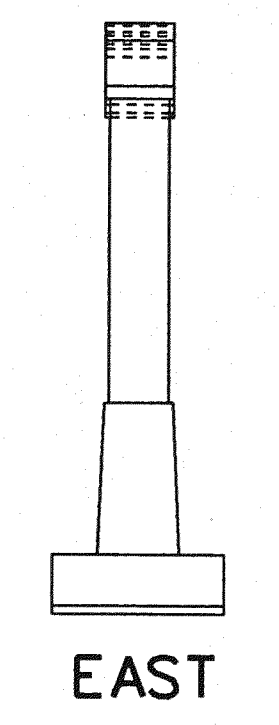
PIER #6



PIER #8



PIER #7



NOTES
CONCRETE IN AREAS TO BE PATCHED SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
ALL SURFACES OF ALL PIERS SHALL BE GIVEN AN APPLICATION OF PENETRATING WATER REPELLENT TREATMENT.

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
EPOXY MORTAR OR CONCRETE FOR PATCHING	CFT	10
PENETRATING WATER REPELLENT TREATMENT	SYD	120
REPAIRING STRUCTURAL CRACKS	LFT	98
FORMING FOR PATCHES	SFT	39
HAND CHIPPING - OTHER THAN DECK	CFT	10

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LEGEND
 - DENOTES CRACK SEALING
 - DENOTES CONCRETE REPAIR
 - DENOTES ROCK POCKETS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

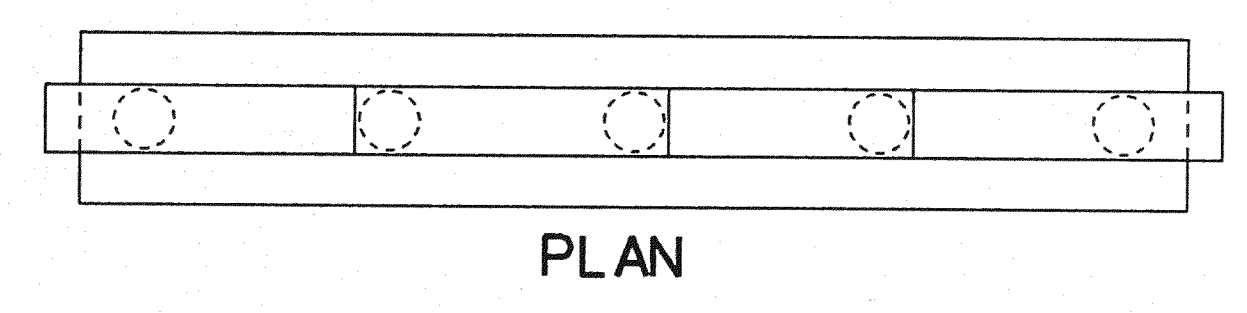
THE CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
SUBSTRUCTURE REPAIRS

SQUAD BOSS	NAME	DATE

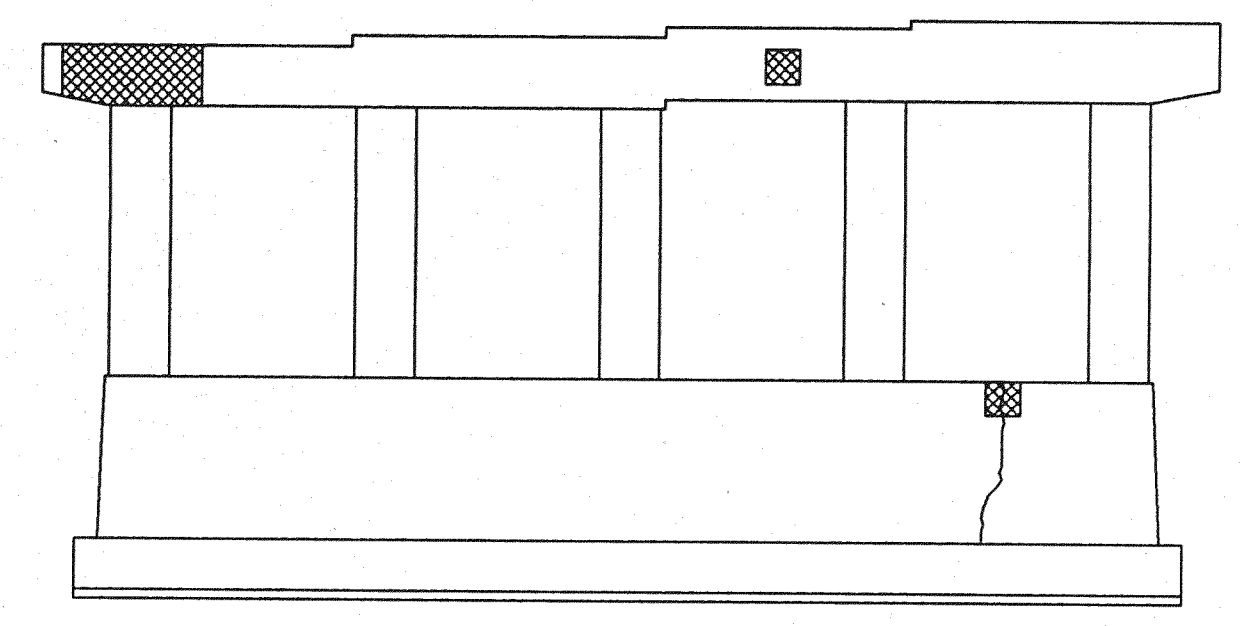
CHECKED BY	NAME	DATE

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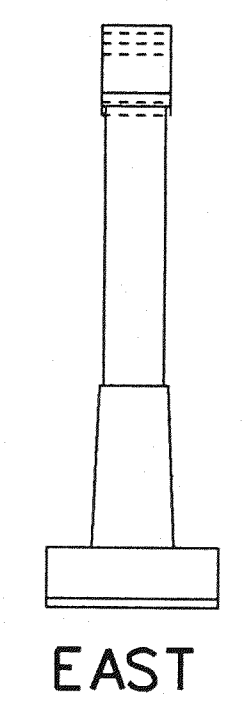
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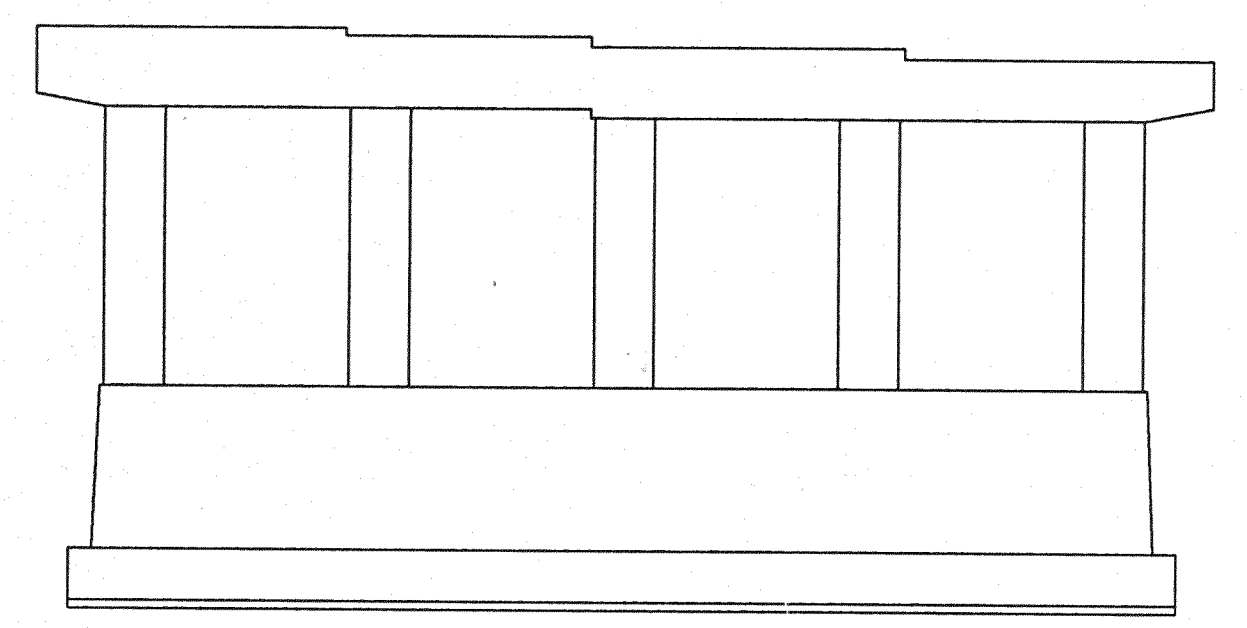
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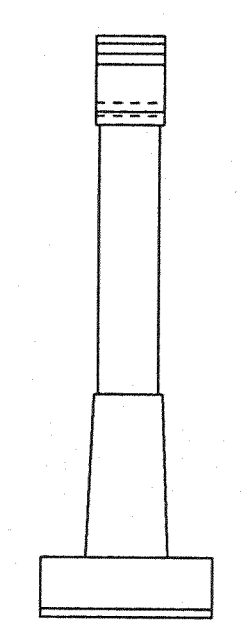
SOUTH ELEVATION



EAST

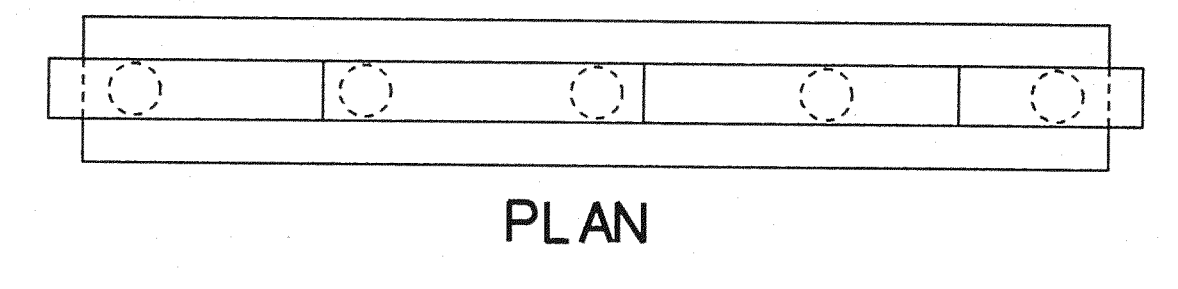


NORTH ELEVATION

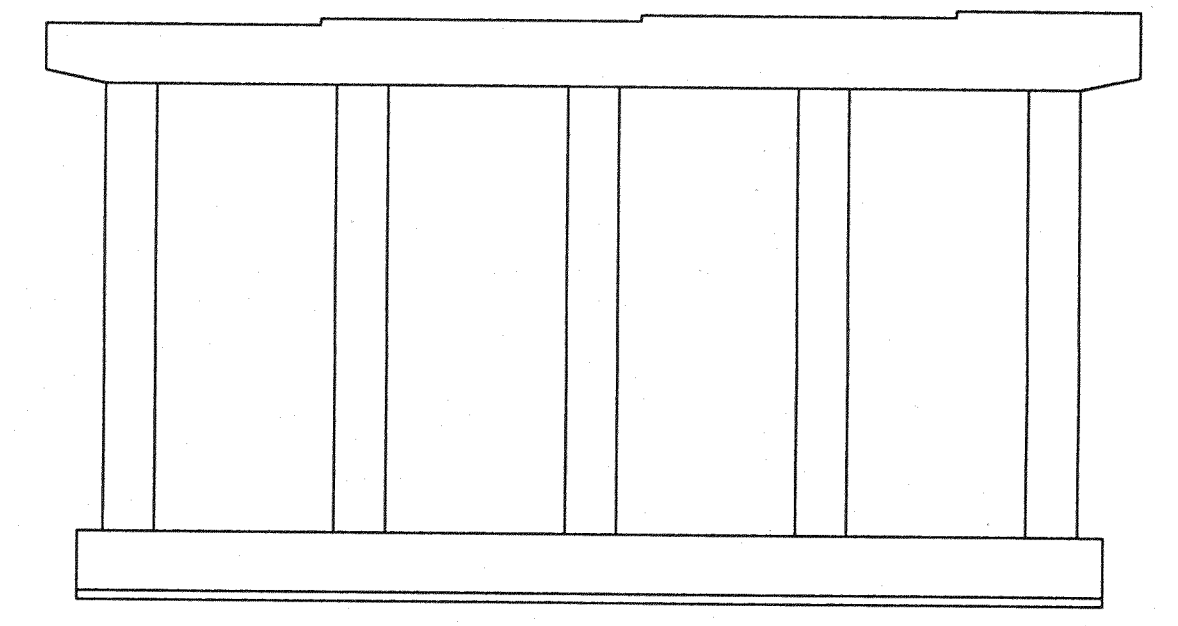


WEST

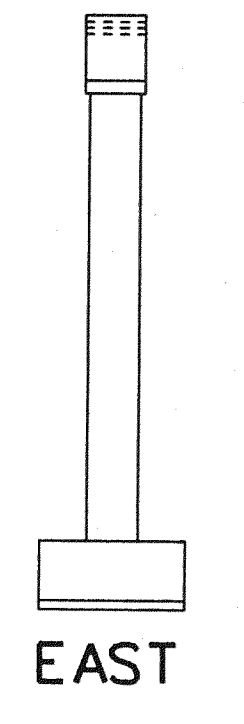
PIER #9



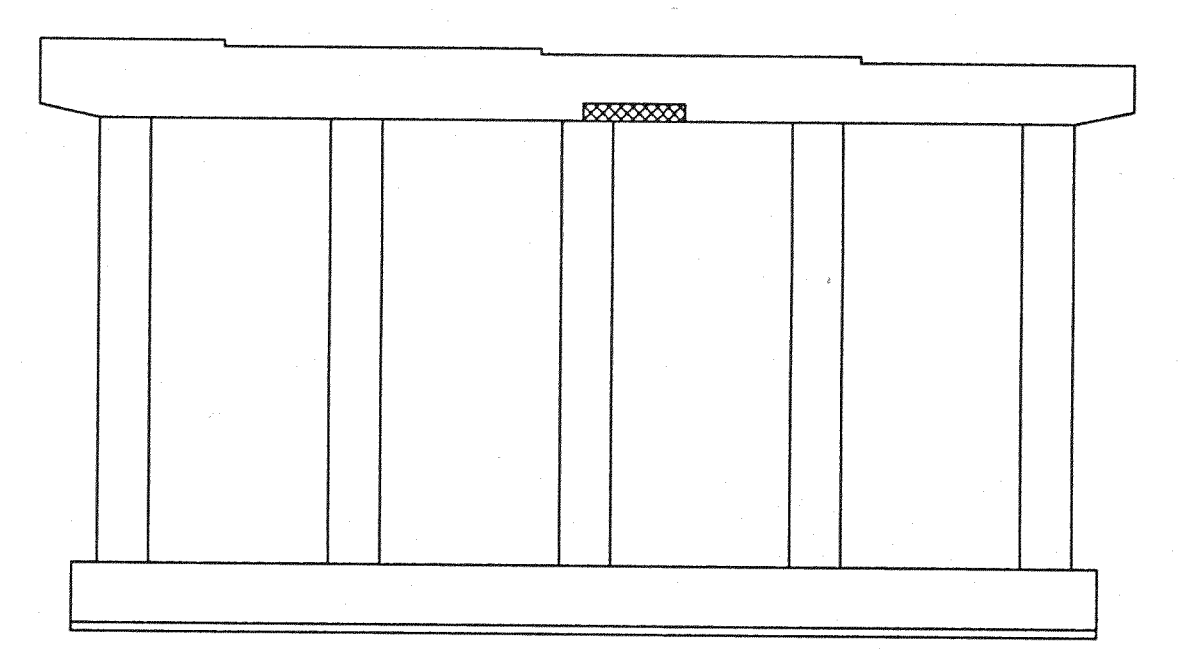
PLAN



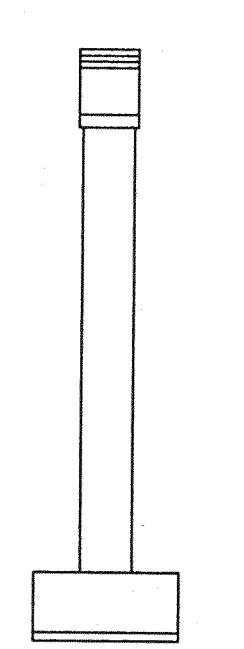
SOUTH ELEVATION



EAST

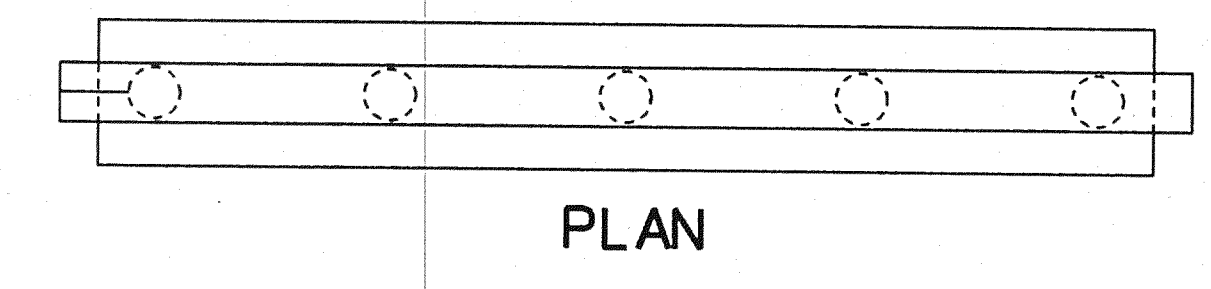


NORTH ELEVATION

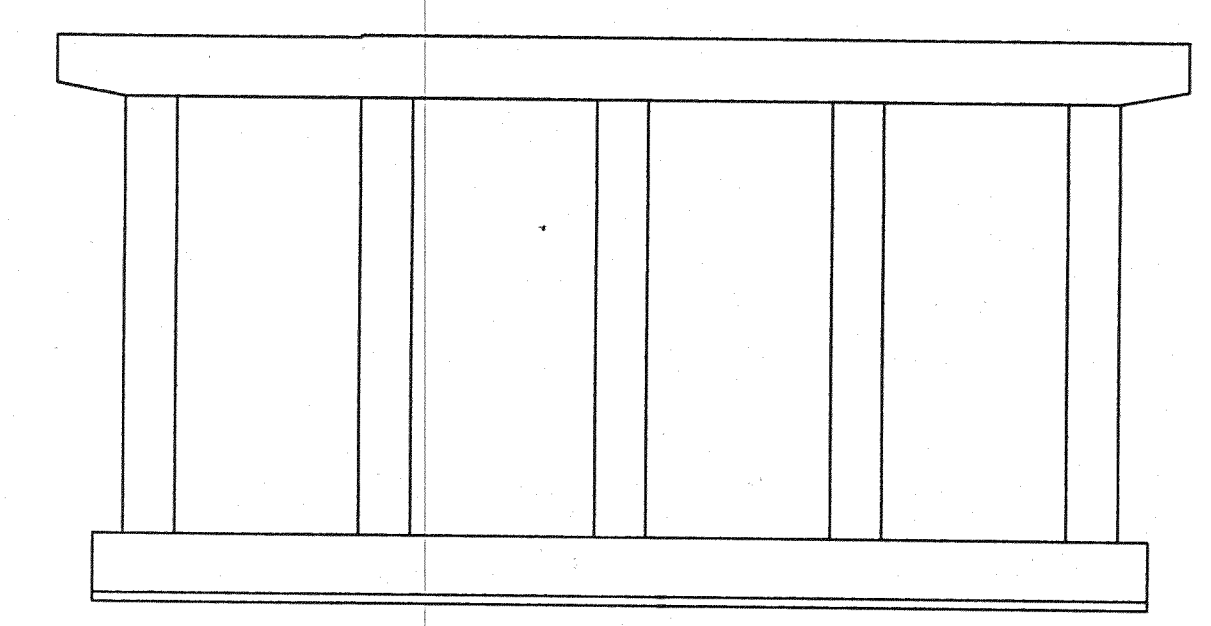


WEST

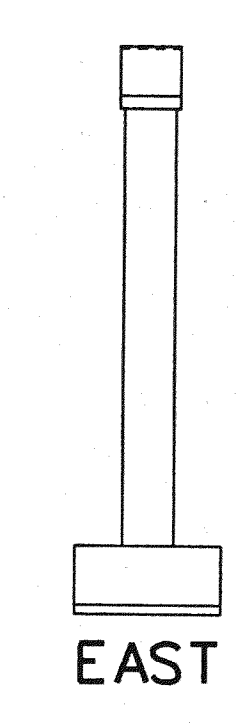
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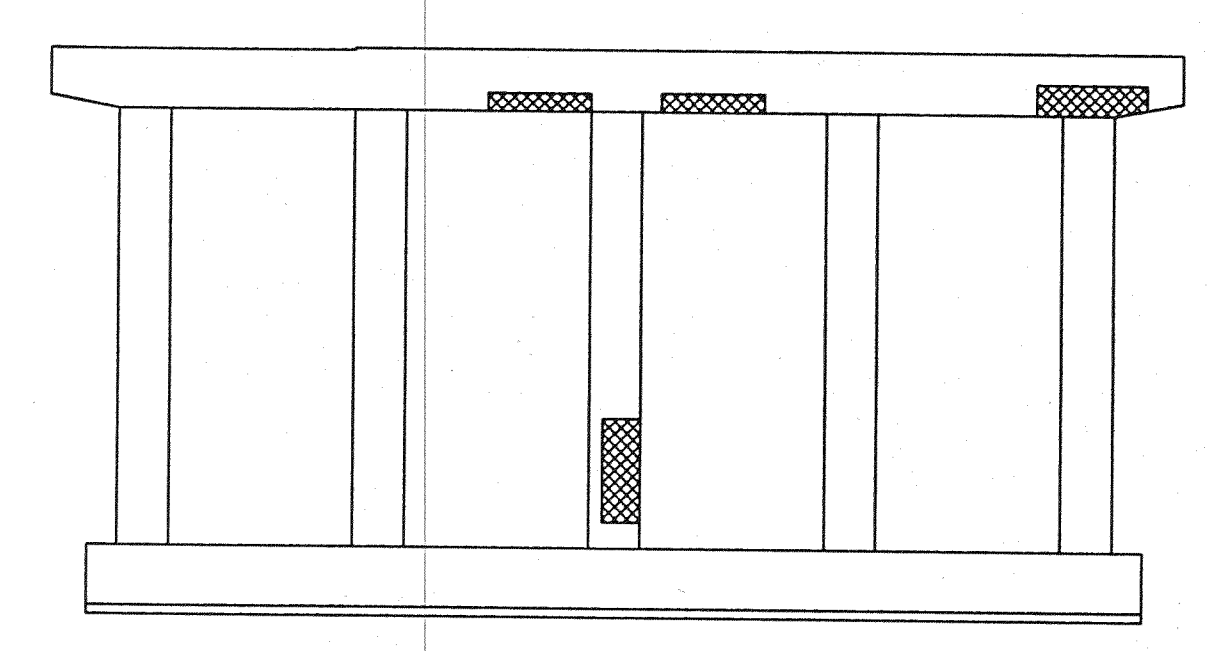
PLAN



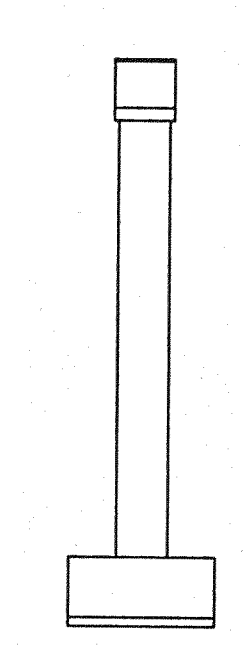
SOUTH ELEVATION



EAST

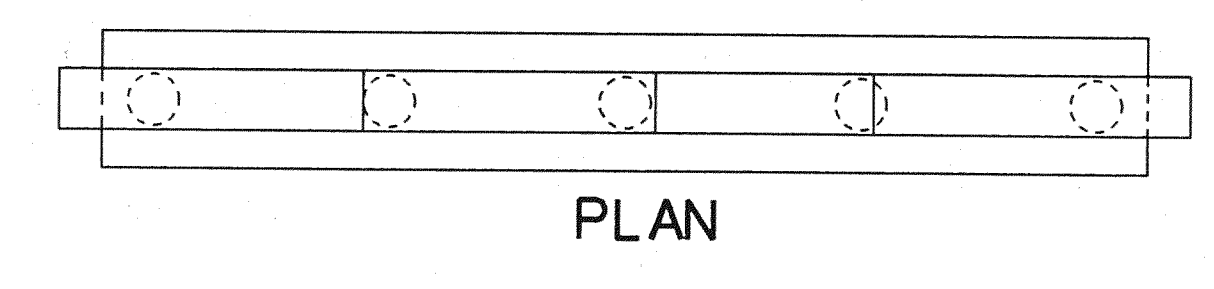


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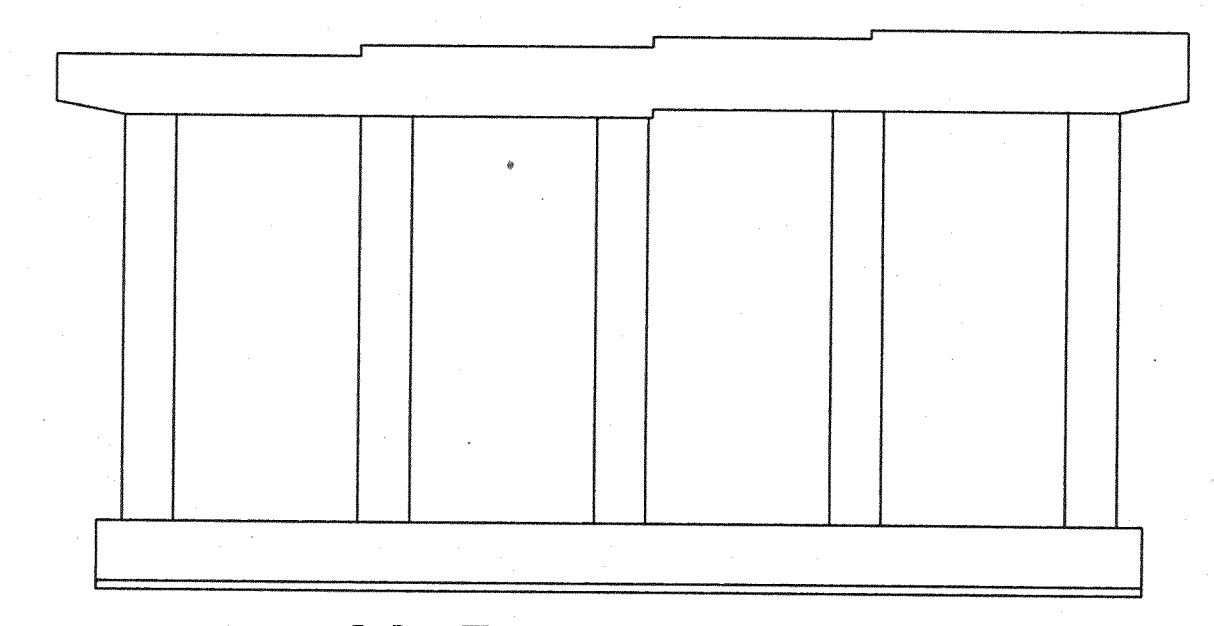


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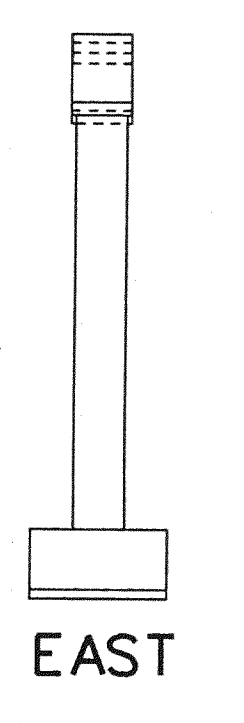
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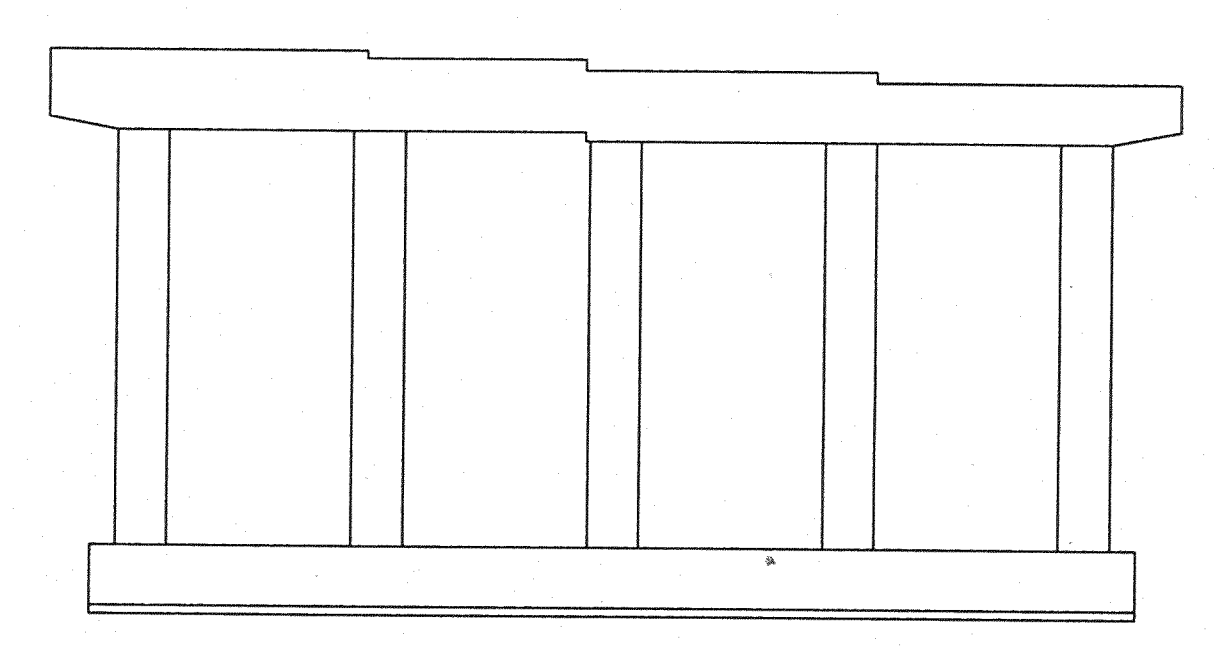
PLAN



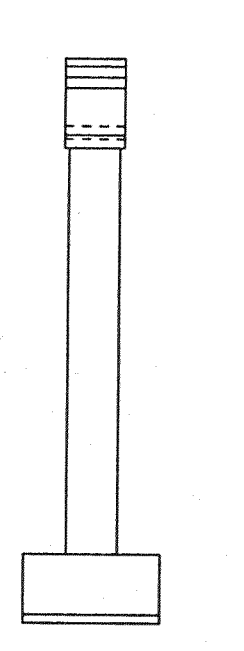
SOUTH ELEVATION



EAST



NORTH ELEVATION



WEST

PIER #10

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
EPOXY MORTAR OR CONCRETE FOR PATCHING	CFT	26
PENETRATING WATER REPELLENT TREATMENT	SYD	106
REPAIRING STRUCTURAL CRACKS	LFT	8
FORMING FOR PATCHES	SFT	102
HAND CHIPPING - OTHER THAN DECK	CFT	26

NOTES
 CONCRETE IN AREAS TO BE PATCHED SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 ALL SURFACES OF ALL PIERS SHALL BE GIVEN AN APPLICATION OF PENETRATING WATER REPELLENT TREATMENT.

LEGEND
 Y - DENOTES CRACK SEALING
 [Hatched Box] - DENOTES CONCRETE REPAIR
 [Circle with Dots] - DENOTES ROCK POCKETS

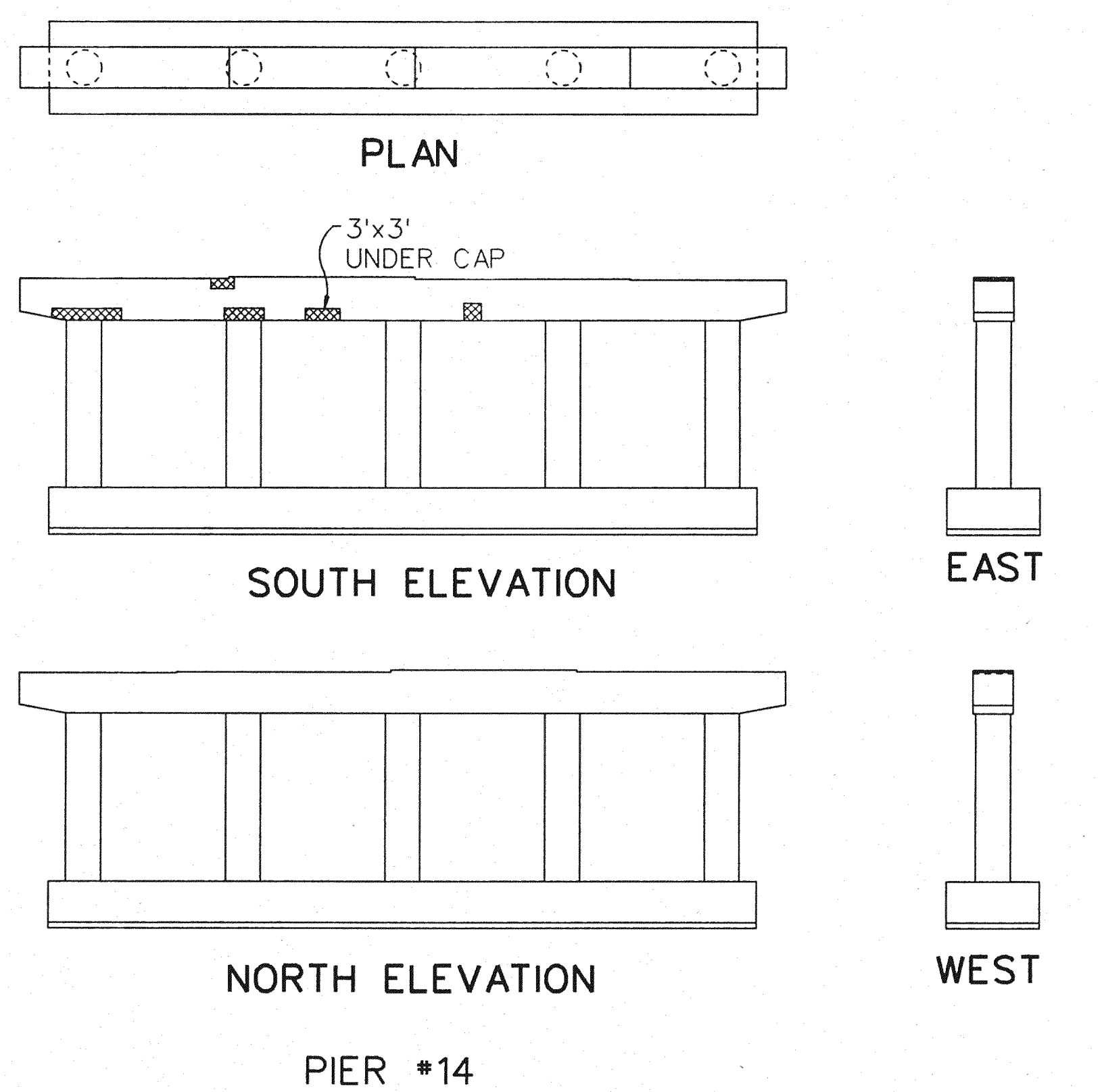
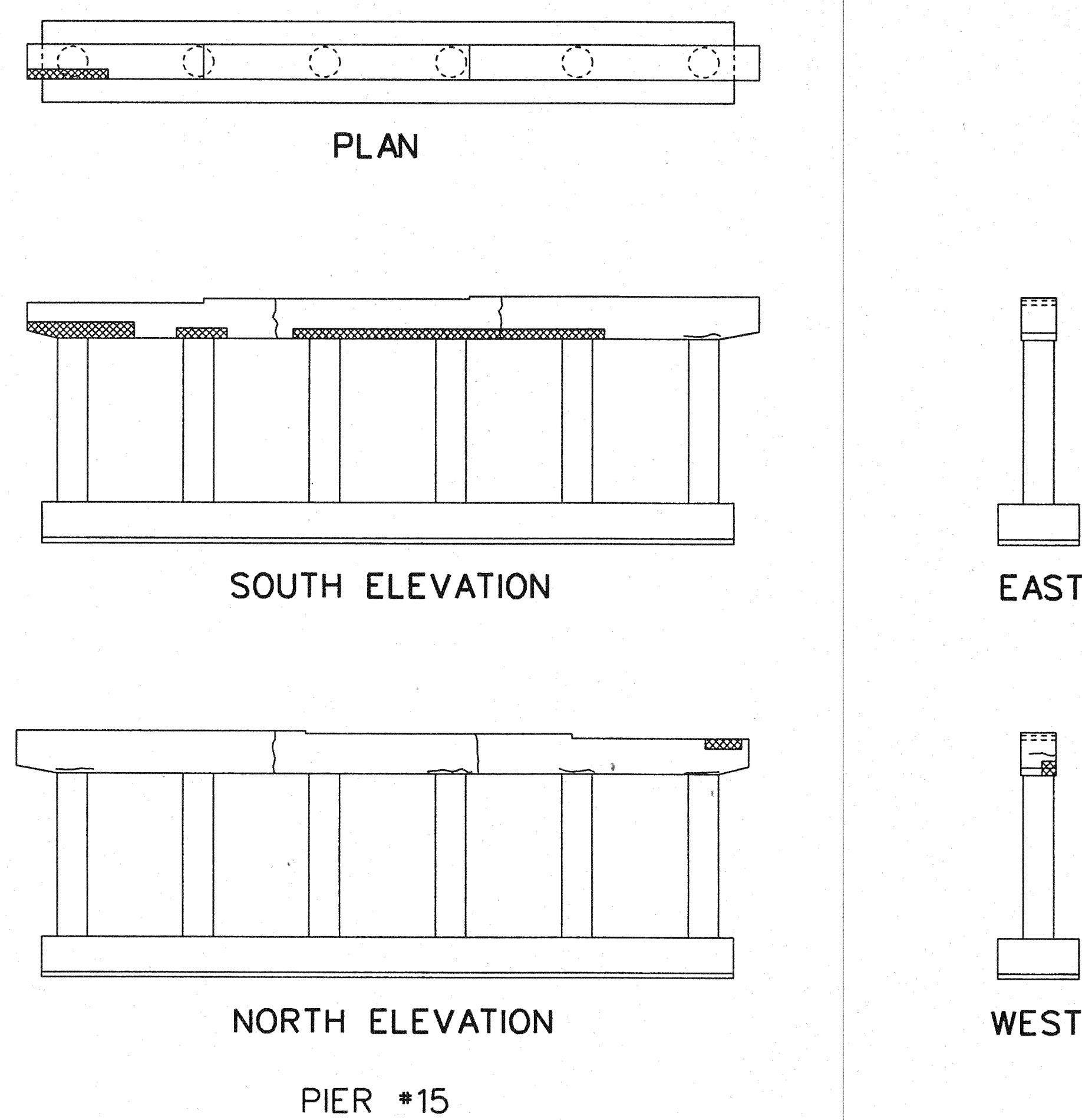
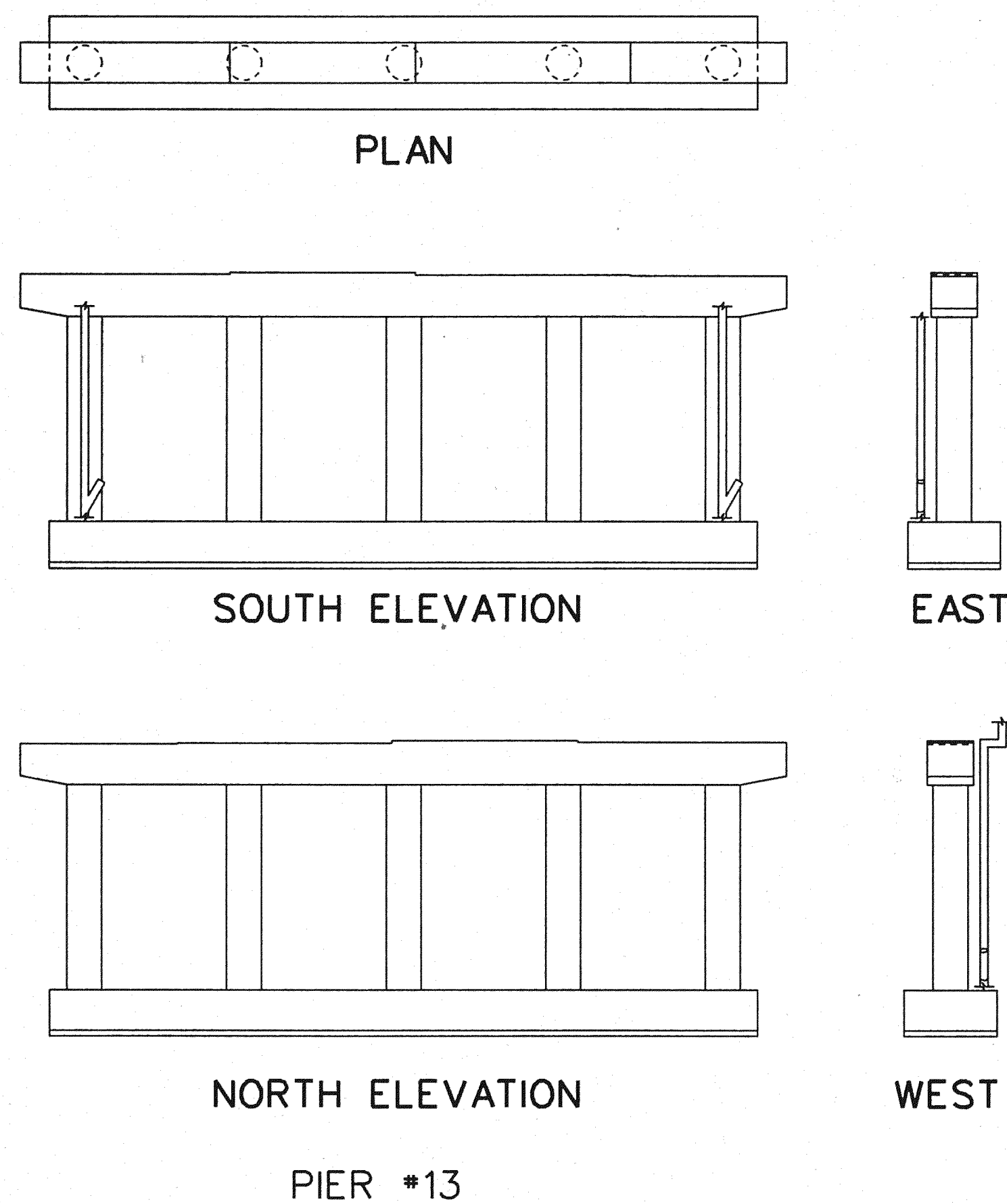
THE CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION
 SUBSTRUCTURE REPAIRS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
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MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
EPOXY MORTAR OR CONCRETE FOR PATCHING	CFT	20
PENETRATING WATER REPELLENT TREATMENT	SYD	80
REPAIRING STRUCTURAL CRACKS	LFT	0
FORMING FOR PATCHES	SFT	79
HAND CHIPPING - OTHER THAN DECK	CFT	20

- LEGEND**
- DENOTES CRACK SEALING
 - DENOTES CONCRETE REPAIR
 - DENOTES ROCK POCKETS

NOTES
 CONCRETE IN AREAS TO BE PATCHED SHALL BE REMOVED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 ALL SURFACES OF ALL PIERS SHALL BE GIVEN AN APPLICATION OF PENETRATING WATER REPELLENT TREATMENT.

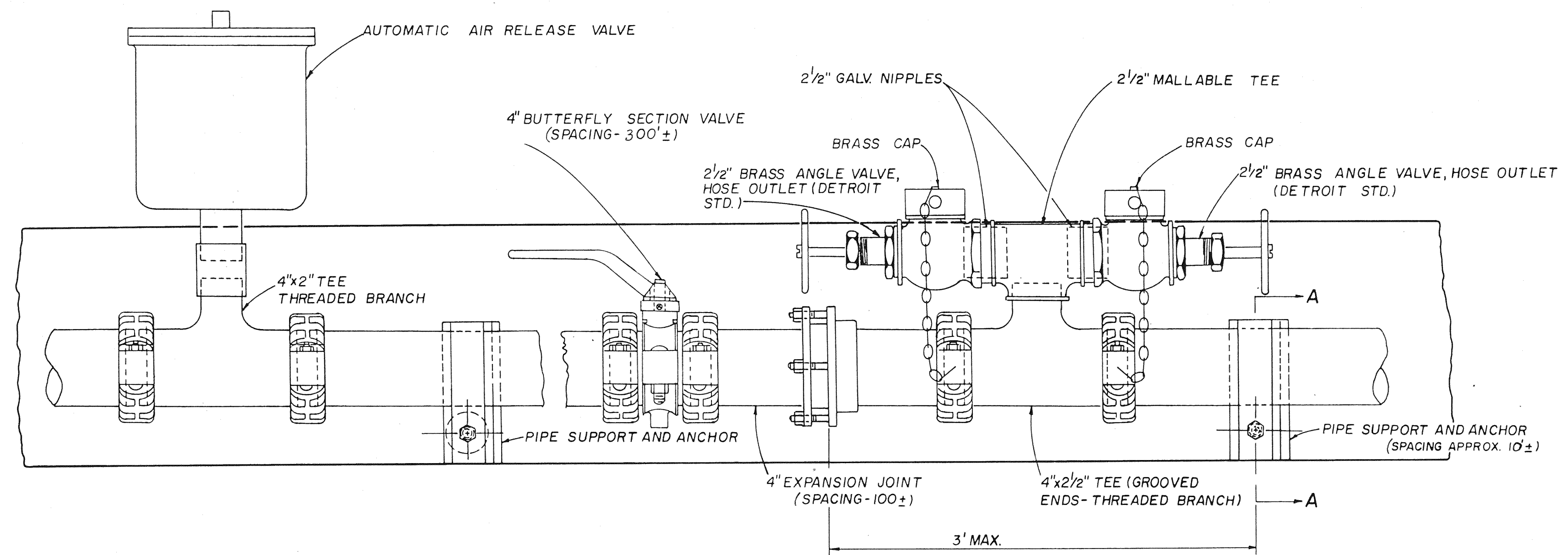
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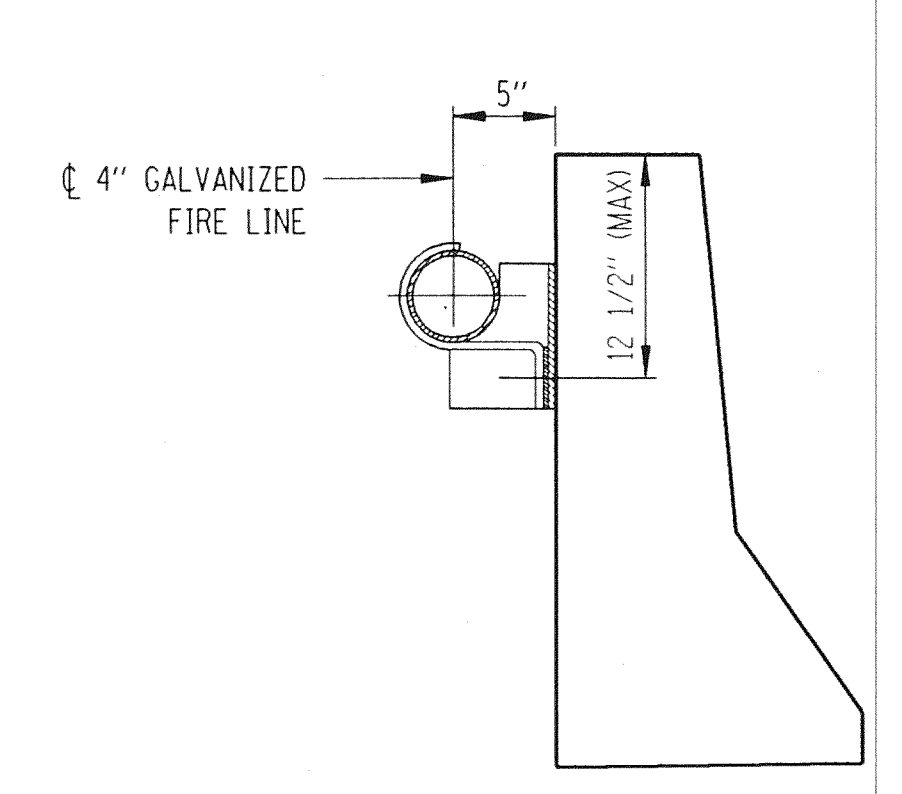
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NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	R/L	DATE

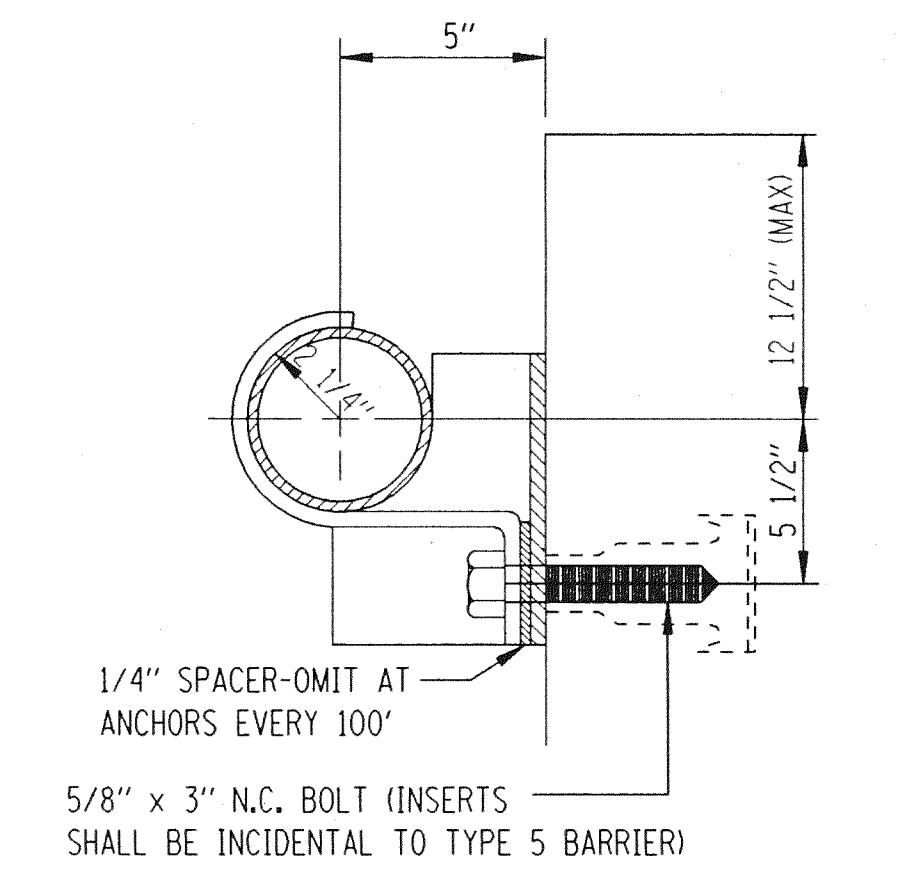
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 SHEET 57 OF 57
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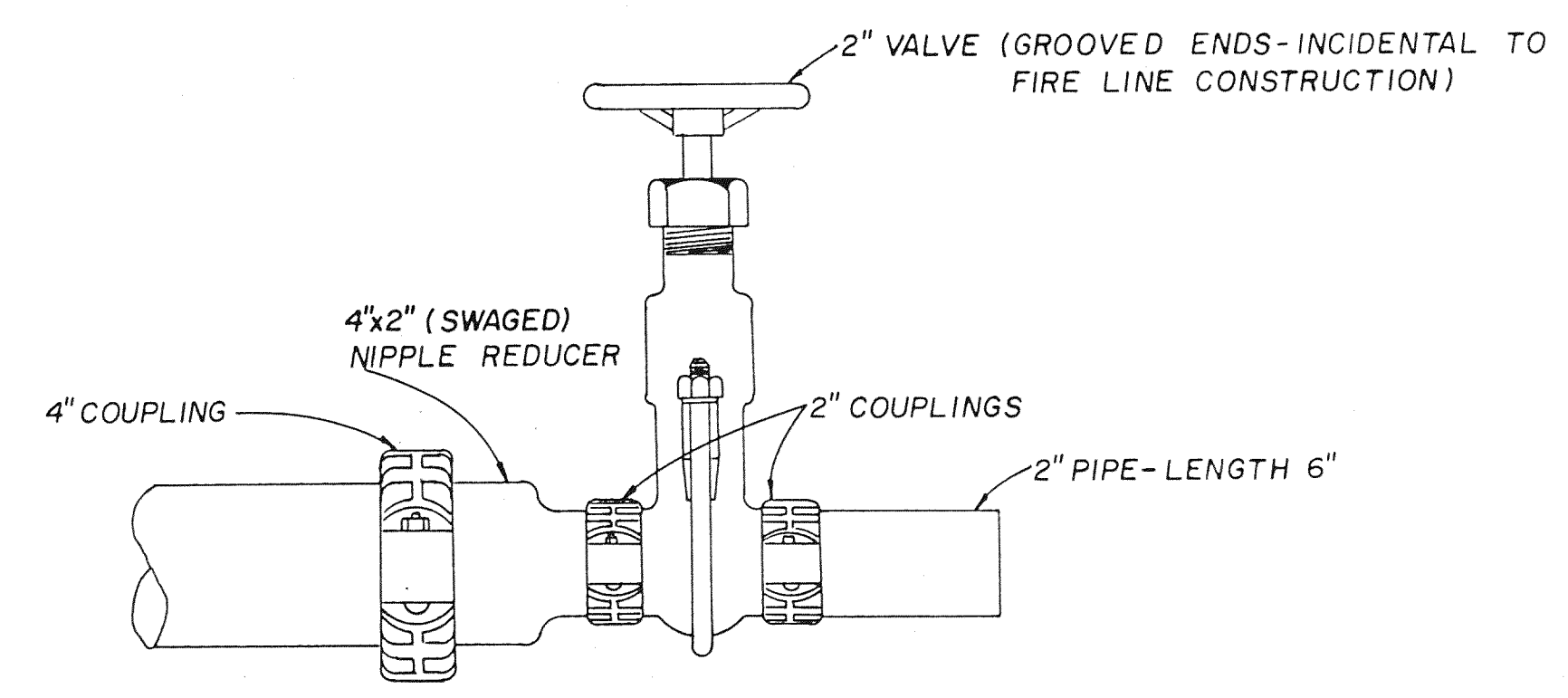
AIR VENT, SUPPORT, VALVE, EXPANSION JOINT, FIRE HOSE OUTLET, AND ANCHOR LAYOUT DETAIL



SECTION THRU BARRIER

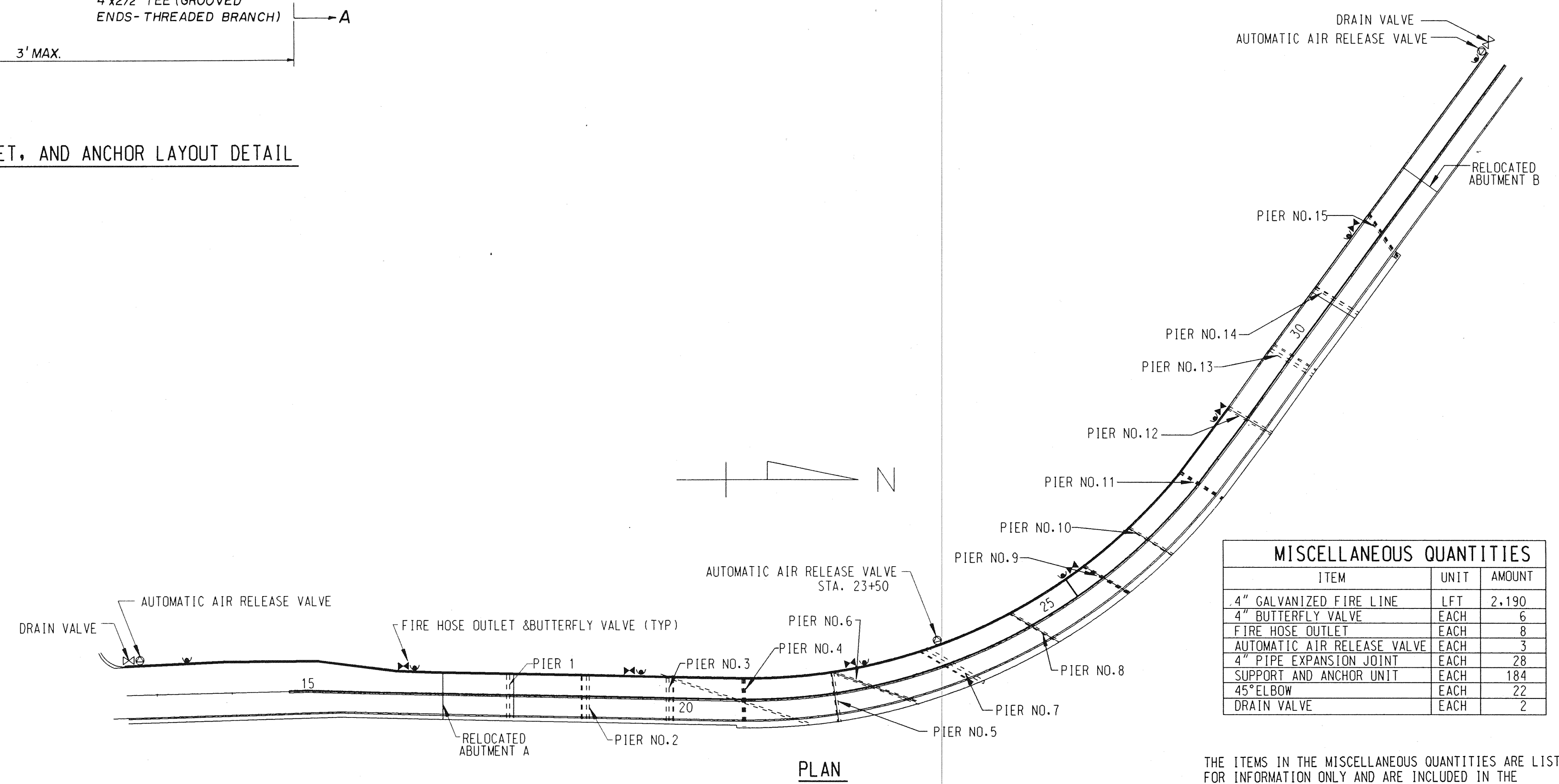


SUPPORT AND ANCHOR DETAILS



DRAIN CONNECTION DETAIL

- LEGEND**
- ⊗ DRAIN VALVE
 - ⊙ AUTOMATIC AIR RELEASE VALVE
 - ⊕ FIRE HOSE OUTLET
 - ⊗ BUTTERFLY VALVE



PLAN

PROPOSED FIRE HOSE OUTLET LOCATION TABLE

STATION	FIRE HOSE OUTLET NO.
13+40	1
16+40	2
19+40	3
22+40	4
25+40	5
28+40	6
31+40	7
34+40	8

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
4" GALVANIZED FIRE LINE	LFT	2,190
4" BUTTERFLY VALVE	EACH	6
FIRE HOSE OUTLET	EACH	8
AUTOMATIC AIR RELEASE VALVE	EACH	3
4" PIPE EXPANSION JOINT	EACH	28
SUPPORT AND ANCHOR UNIT	EACH	184
45° ELBOW	EACH	22
DRAIN VALVE	EACH	2

THE ITEMS IN THE MISCELLANEOUS QUANTITIES ARE LISTED FOR INFORMATION ONLY AND ARE INCLUDED IN THE INSTALLATION OF THE "DRY FIRE PROTECTION LINE".

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 DRY FIRE PROTECTION LINE

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE

CHECKED BY	NAME	DATE

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