

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

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54-57	SUBSTRUCTURE REPAIRS
57A	DRY FIRE PROTECTION LINE

**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.

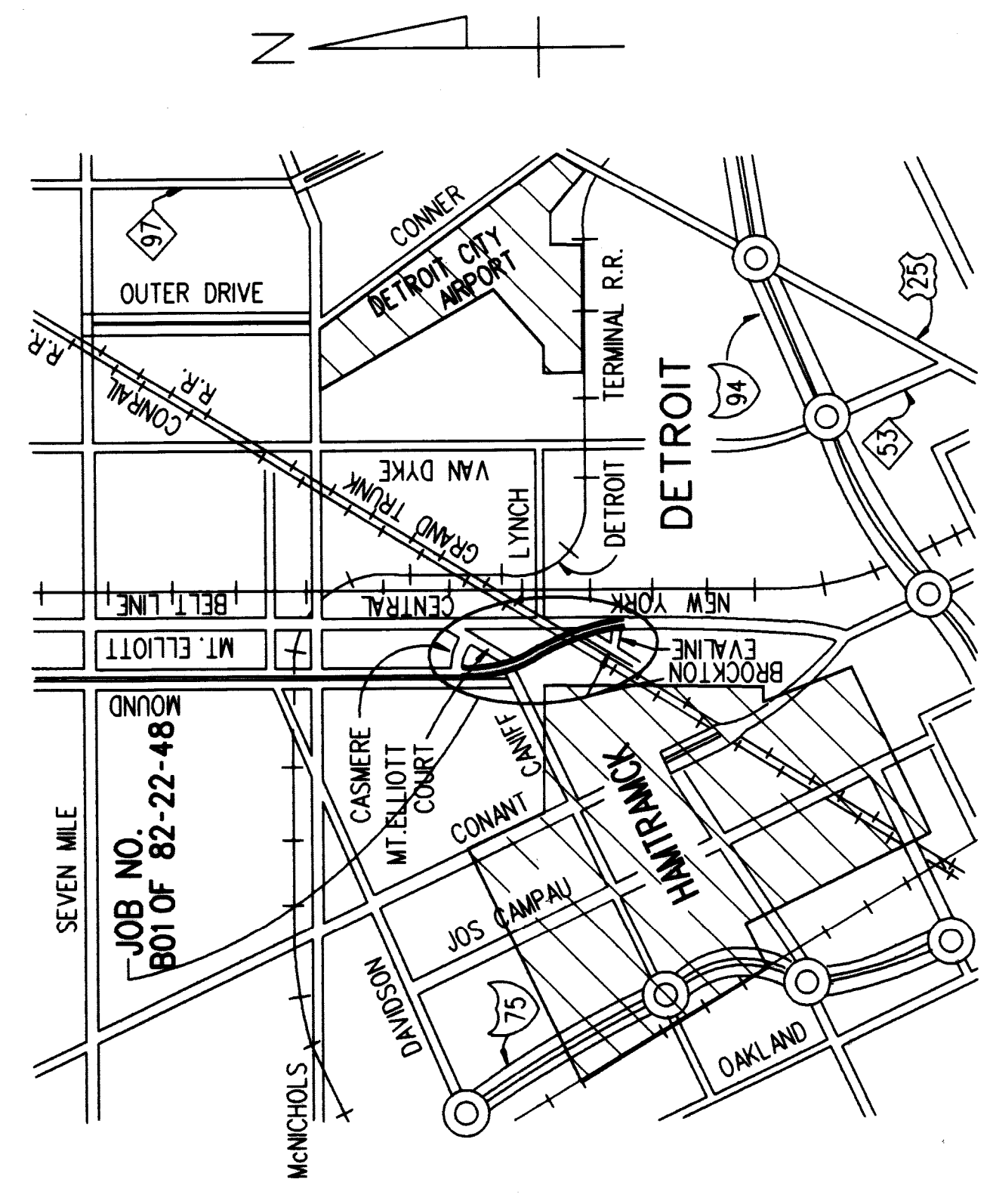
- II-30D CONCRETE CURB AND CONCRETE CURB & GUTTER
- II-39K TRANSVERSE PAVEMENT JOINTS
- II-44G CONCRETE PAVEMENT REPAIR
- II-45G CONVENTIONAL PAVEMENT REINFORCEMENT
- III-67D GUARDRAIL ANCHORAGE - BRIDGE, DETAILS
- V-100B SODDING AND SEEDING
- VI-125H LIGHTED ARROWS AND BARRICADES
- XI-101B DRAIN CASTING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

THESE STANDARD PLANS WILL NOT BE PRINTED.

**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



**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. L.T.G. CABLE CONNECTIONS, CLAMP-ON ARM & MISC. DETAILS
- 115-PLD CODE 009-00 ST. L.T.G. STD. DETAILS

THESE STANDARD PLANS PROVIDED IN SET.

**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	fc =	3,000psi
Steel Reinforcement	Grade 45D	fc =	4,000psi
Structural Steel:	A36	fy =	60,000psi
Grade 50	A442 modified	fy =	50,000psi

**UTILITIES**

DETROIT EDISON 1-800-477-4747  
 MICHIGAN CONSOLIDATED GAS CO. 313-965-8080  
 AMERTECH 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

CONTRACT FOR REHABILITATION OF MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION

LOCAL AUTHORITY APPROVAL  
 CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY *William A. Pally* 7/1/94  
 WILLIAM A. PALLY, P.E. CIVIL ENGINEER  
 DATE

APPROVED BY *Walter D. ...* JUL 13 1994  
 WALTER D. ... CIVIL ENGINEER  
 DATE

PREPARED UNDER SUPERVISION OF

ROBERT A. LEE, P.E. REGISTERED PROFESSIONAL ENGINEER  
 BAKER AND ASSOCIATES & WALTER TRAMER  
 AND ASSOCIATES, INC., A JOINT ASSOCIATION  
 ORGANIZATION  
 118 SOUTH CLINTON ST.  
 CHICAGO, ILLINOIS

*Robert A. Lee*  
 June 30, 1994

STATE OF MICHIGAN  
 ENGINEER  
 No. 038632  
 LICENSED PROFESSIONAL ENGINEER

CONTROL SECTION	JOB NUMBER	PROJECT	DATE
			1

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. 1500 L, 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
01	5140013	SEWER CLEAN OUT	2,150	LFT
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
01	6220001	FIELD OFFICE (SPECIAL)	24	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



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

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	6900062	250W HIGH PRESSURE SODIUM LUMINAIRE REMOVAL OF EXISTING CODE 009 STREET LIGHTING STANDARD	8	EACH
01	6907002	REMOVAL OF EXISTING 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

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

NO.	DESCRIPTION	DATE	BY

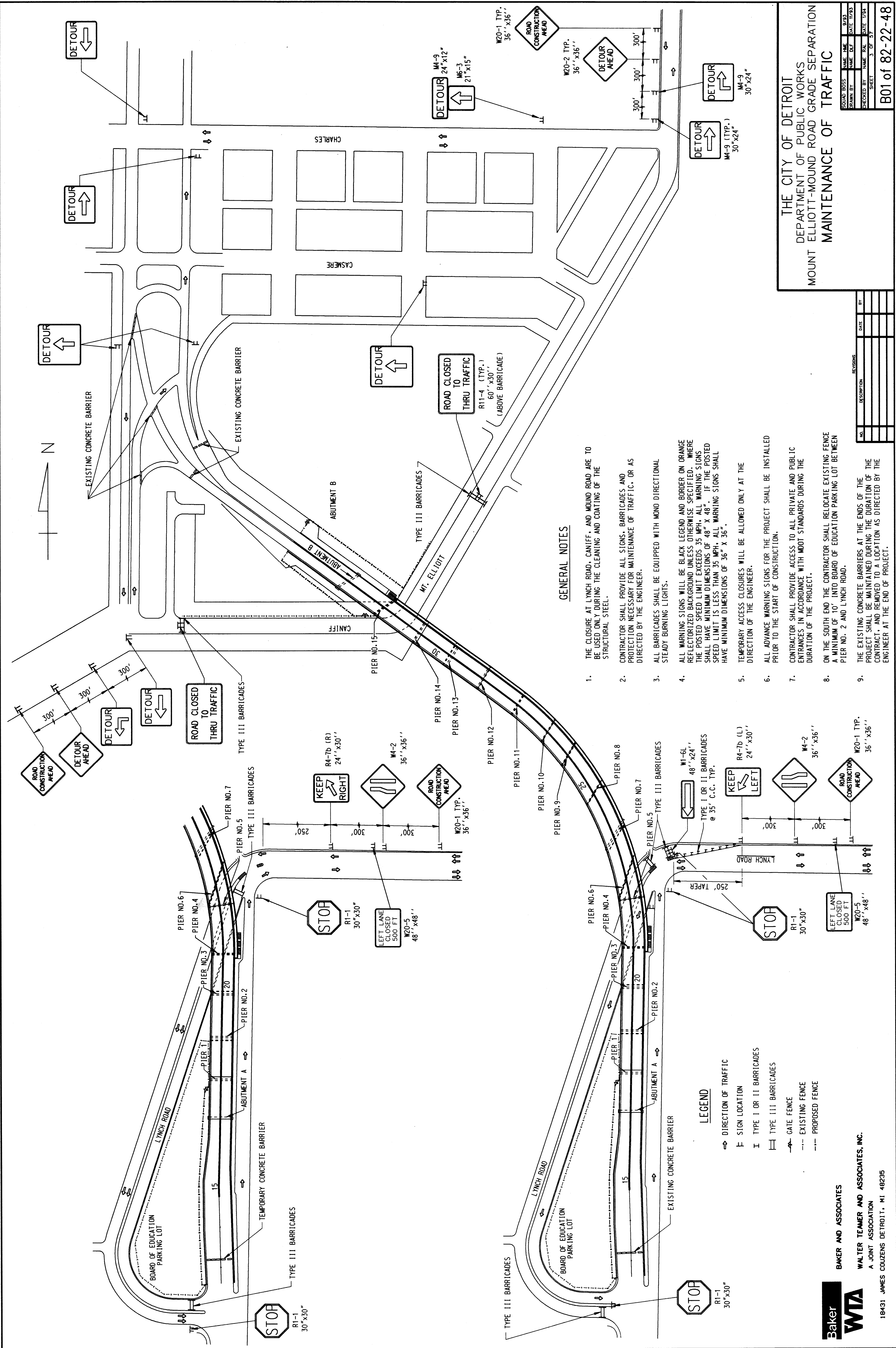
ISSUED BY	NAME	DATE	1/94

B01 of 82-22-48

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

NO.	DESCRIPTION	DATE	BY

9/93  
 1/94  
 3 OF 37  
 B01 of 82-22-48

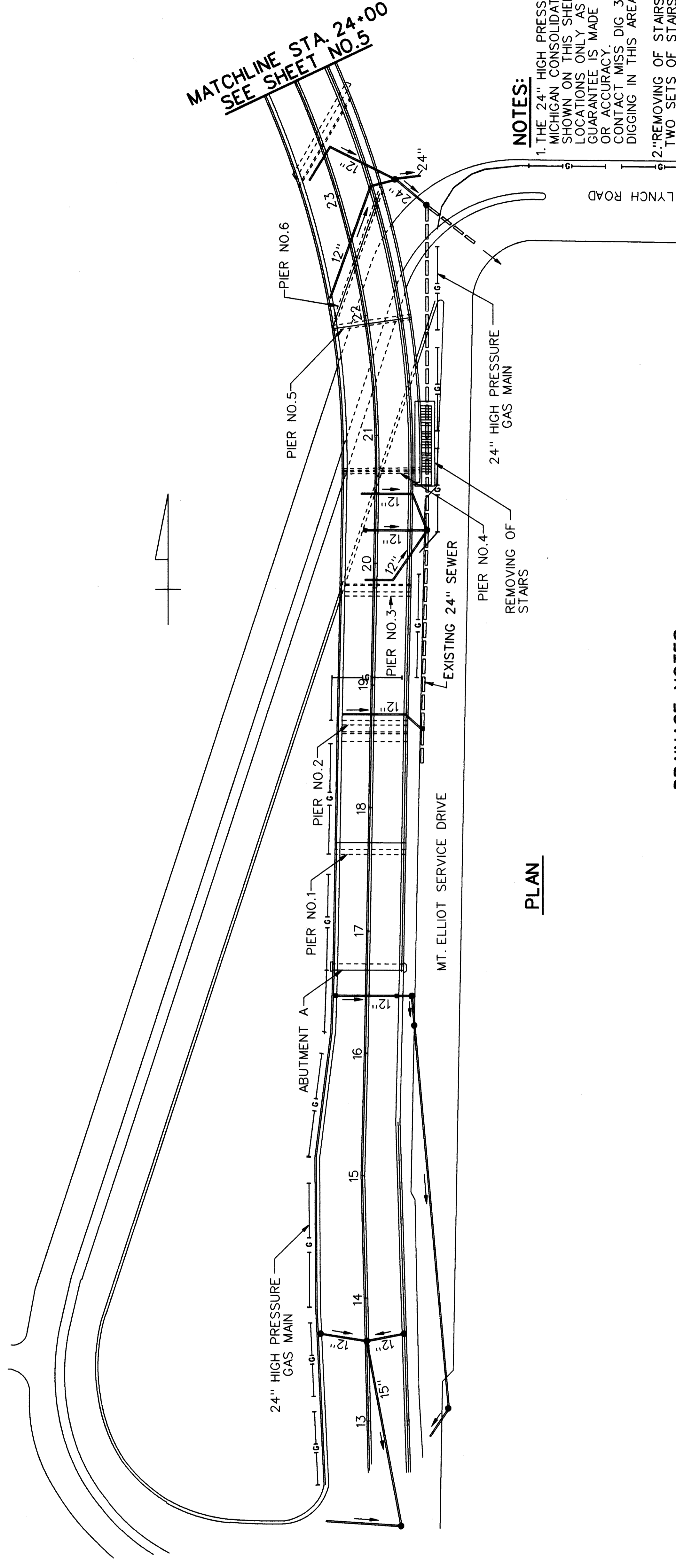


**GENERAL NOTES**

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 MDOT STANDARDS DURING THE DURATION OF THE PROJECT.
8. ON THE SOUTH END THE CONTRACTOR SHALL RELOCATE EXISTING FENCE A MINIMUM OF 10' INTO BOARD OF EDUCATION PARKING LOT BETWEEN PIER NO. 2 AND LYNCH ROAD.
9. THE EXISTING CONCRETE BARRIERS AT THE ENDS OF THE PROJECT SHALL BE MAINTAINED DURING THE DURATION OF THE CONTRACT, AND REMOVED TO A LOCATION AS DIRECTED BY THE ENGINEER AT THE END OF PROJECT.

**LEGEND**

- ⇒ DIRECTION OF TRAFFIC
- F SIGN LOCATION
- I TYPE I OR II BARRICADES
- ▬ TYPE III BARRICADES
- GATE FENCE
- - - EXISTING FENCE
- - - PROPOSED FENCE



MATCHLINE STA. 24+00  
SEE SHEET NO. 5

**PLAN**

**DRAINAGE NOTES:**

SEWER CLEANOUT: CLEAN ALL EXISTING DOWNSPOUT 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.

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.

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

**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.

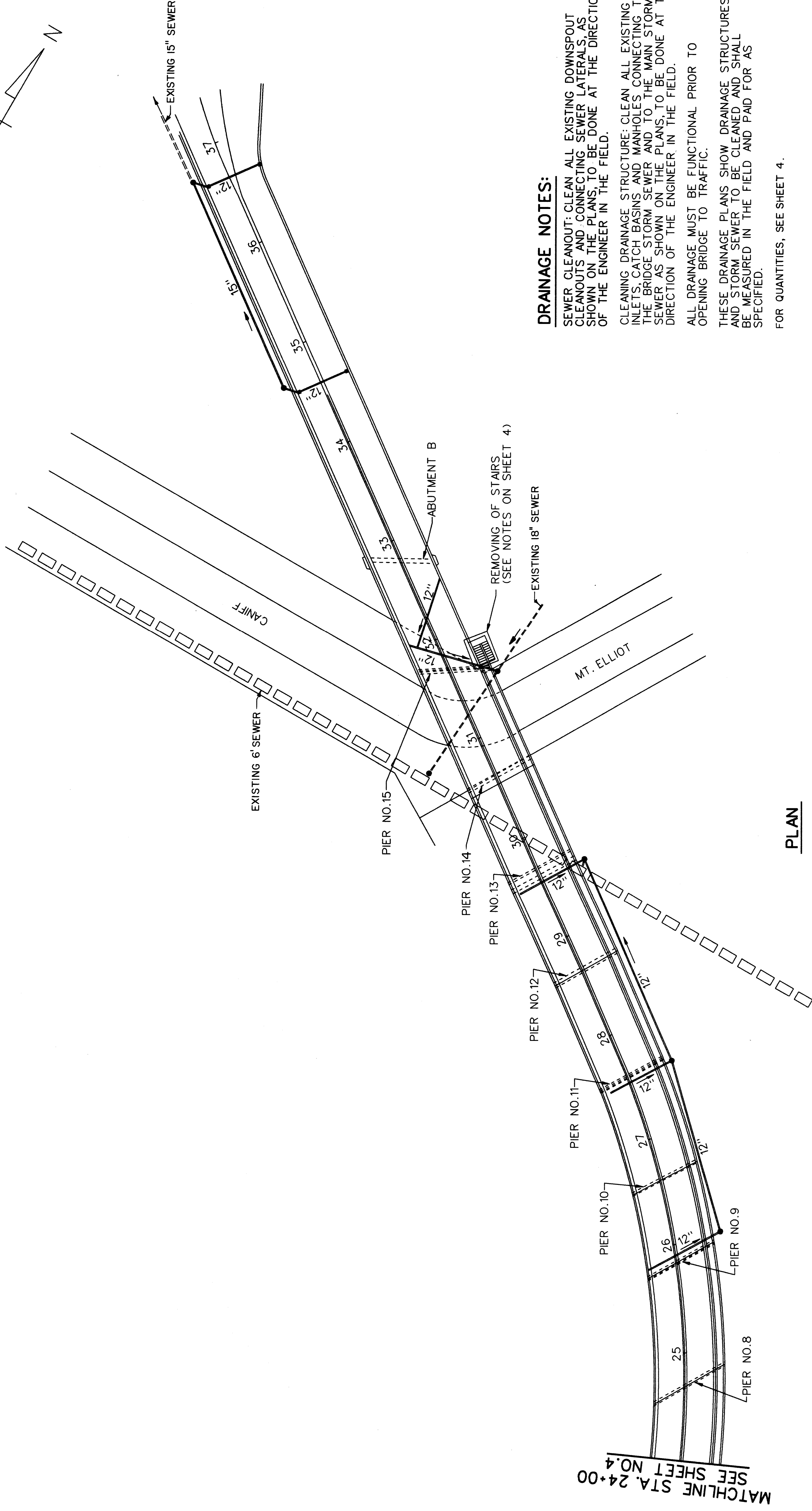
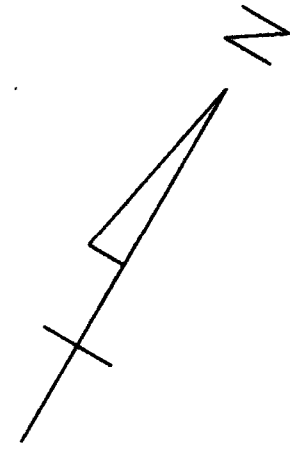
**Baker**  
**WTA**  
BAKER AND ASSOCIATES  
WALTER TEAMER AND ASSOCIATES, INC.  
A JOINT ASSOCIATION  
18431 JAMES COUZENS DETROIT, MI 48235

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

SOUD BOSS	NAME	NAME	DATE	11/83
DRAWN BY	NAME	AD	DATE	11/83
CHECKED BY	NAME	RAL	DATE	1/94
SHEET	4 OF 57			

B01 of 82-22-48

NO.	DESCRIPTION	DATE	BY



**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.

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

DESIGNED BY	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	5	OF 57

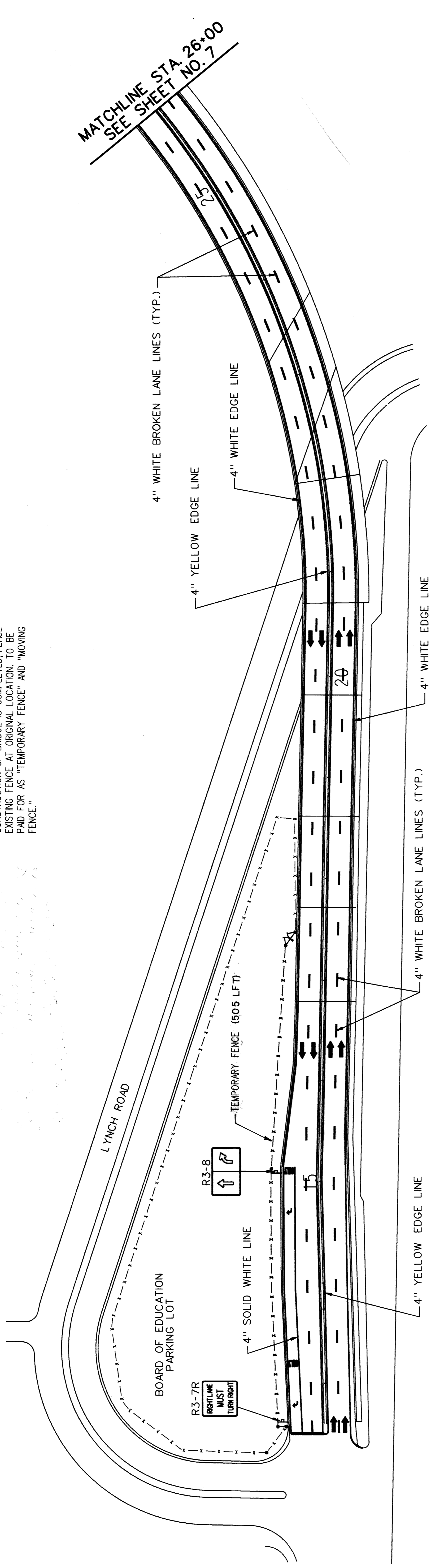
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NO.	DESCRIPTION	RECORDS	DATE	BY

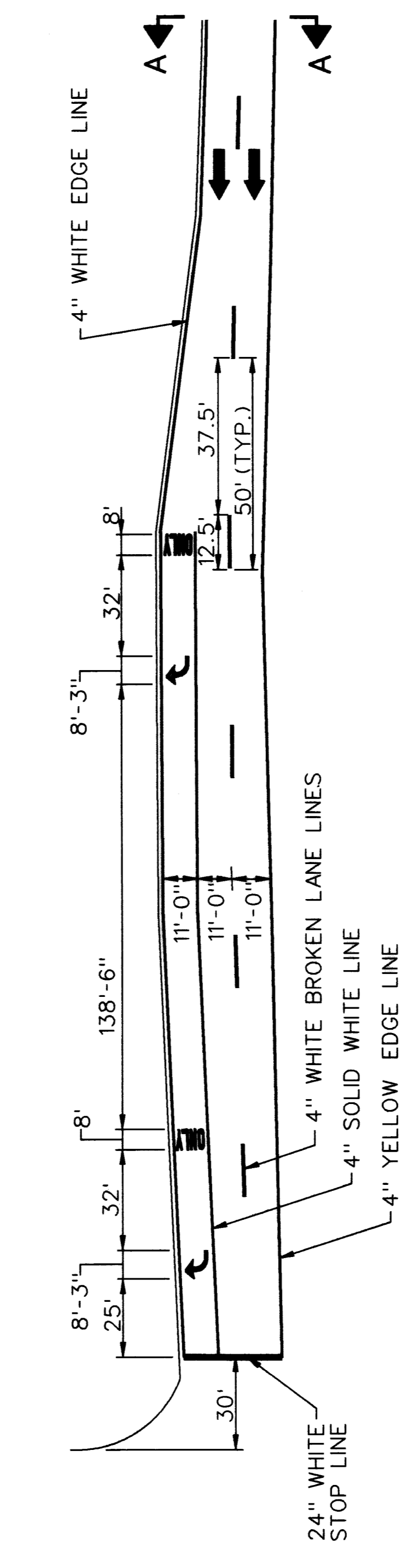
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**WTA**

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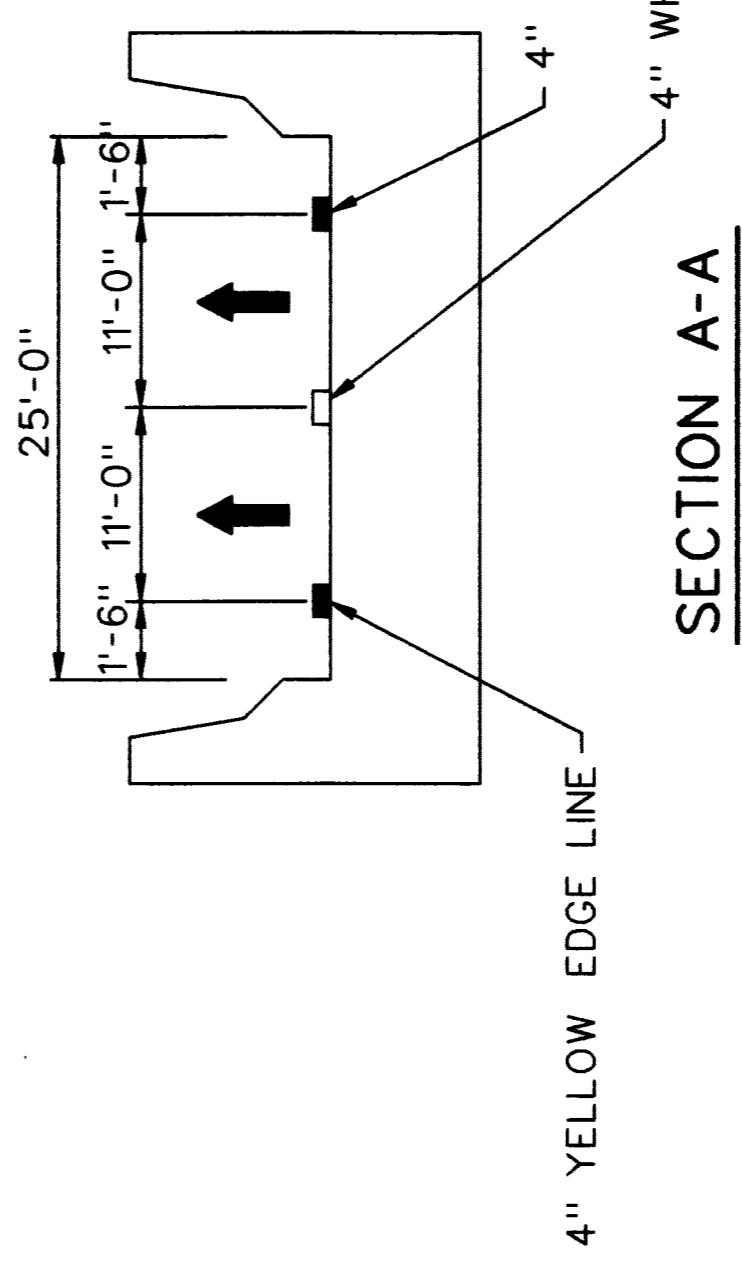
NOTE: TEMPORARY FENCE AT R.O.W. LINE AND PLACE EXISTING FENCE TO TEMPORARY STORAGE FOR WORK AT SOUTH END OF BRIDGE. WHEN CONSTRUCTION OF BRIDGE IS COMPLETED, PLACE EXISTING FENCE AT ORIGINAL LOCATION. TO BE PAID FOR AS "TEMPORARY FENCE" AND "MOVING FENCE."



PLAN



TYPICAL MARKING DETAIL



SECTION A-A

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

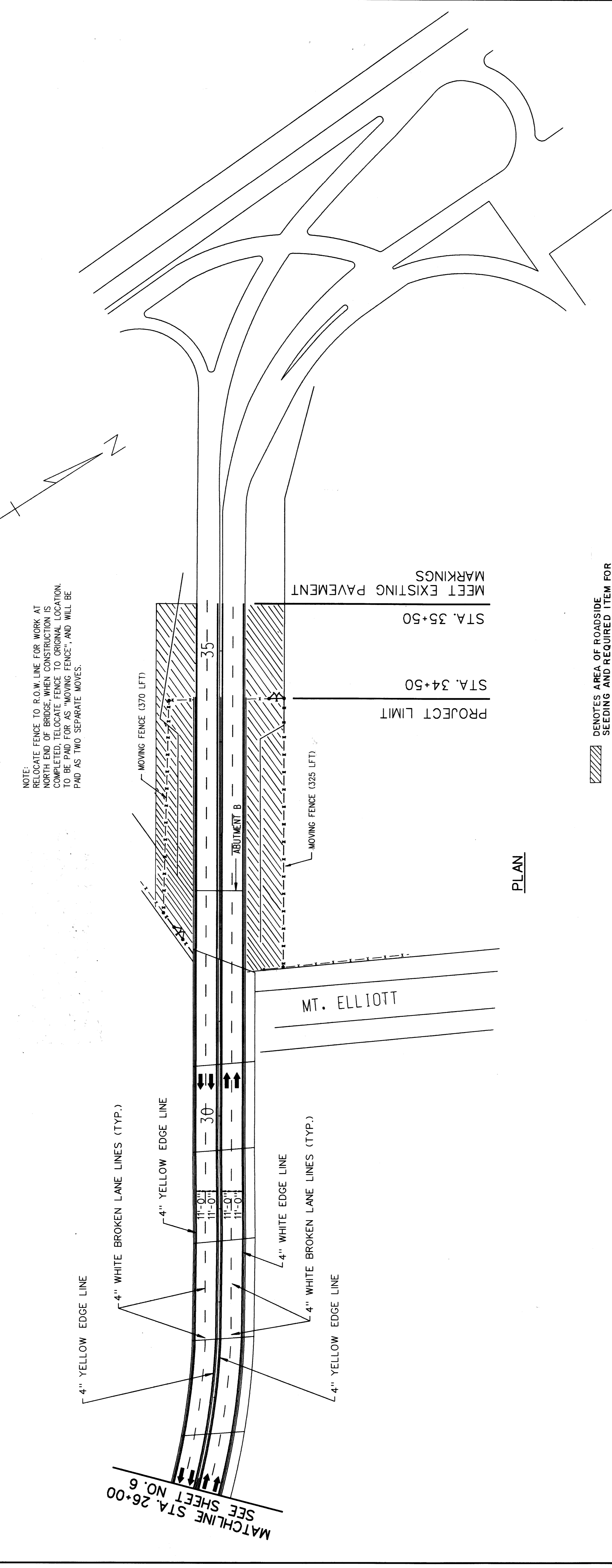
NO.	DESCRIPTION	DATE	BY

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

SQUAD BOSS	NAME	DATE	12/93
DRAWN BY	NAME	JAD	DATE
CHECKED BY	NAME	RAM	DATE
SHEET	6	OF	57

B01 of 82-22-48

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



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.

MEET EXISTING PAVEMENT MARKINGS  
 STA. 35+50  
 PROJECT LIMIT  
 STA. 34+50

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

PLAN

MATCHLINE STA. 26+00  
 SEE SHEET NO. 6

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 685
TEMPORARY FENCE	LFT 685
ROADSIDE SEEDING	LBS 70
CHEMICAL FERTILIZER NUTRIENTS	LBS 168
MULCH	TON 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

DESIGNED BY	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	7	OF 97

B01 of 82-22-48

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

NO.	DESCRIPTION	REVISIONS	DATE	BY

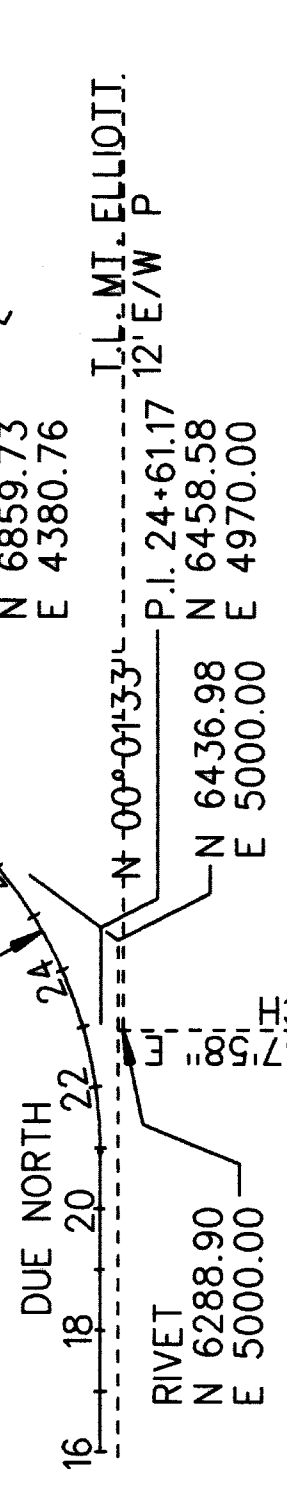
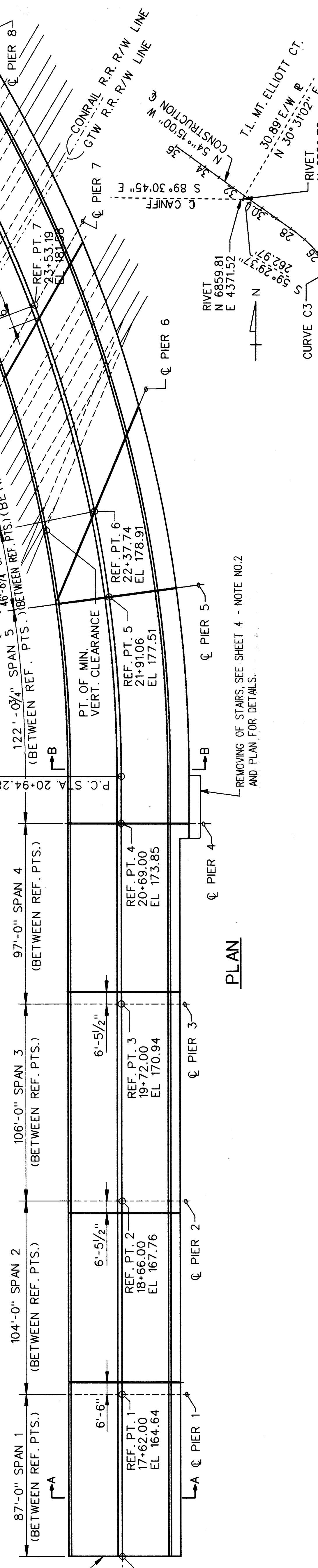
**BENCHMARKS**

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

**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'

\* NOT AVAILABLE TO BE REMOVED DURING CONSTRUCTION

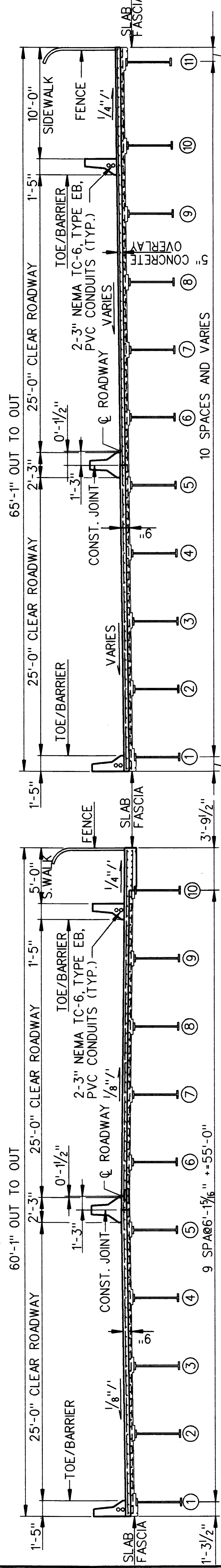


**ALIGNMENT DIAGRAM**

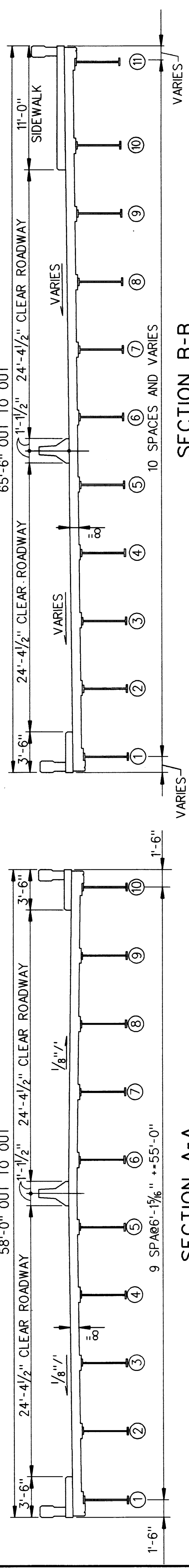
**NOTES:**  
 THE WORK COVERED BY THESE PLANS INCLUDES REMOVAL OF EXISTING BARRIER WALLS, MEDIAN, DECK LIGHTING, DECK JOINTS, AND HYDRODEMOLISHING THE DECK SLAB A DEPTH OF 1' ± BELOW THE BOTTOM OF THE TOP MAT OF STEEL; REMOVAL OF TOP MAT OF REINFORCEMENT; REMOVAL OF CONCRETE SLAB IN SPAN 16; REMOVAL OF STARWAYS; 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.

**PLAN**

REMOVING OF STAIRS, SEE SHEET 4 - NOTE NO.2 AND PLAN FOR DETAILS.



**SECTION A-A (PROPOSED)**



**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      3000 PSF  
 AVG. D.L.+L.L. CASE      3500 PSF  
 ANY FORMING, FINISHING, AND CURING OF SUPERSTRUCTURE CONCRETE OTHER THAN SPAN 16, WILL BE INCLUDED IN THE COST FOR SPAN 16.

**Baker**  
**BAKER AND ASSOCIATES**  
 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  
**GENERAL PLAN OF STRUCTURE**

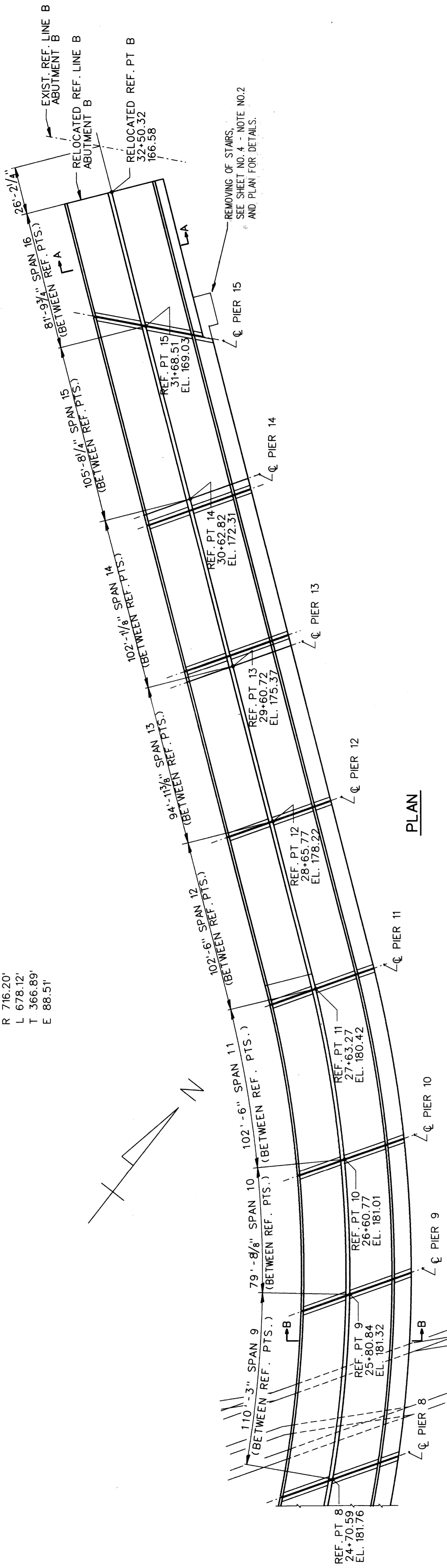
DESIGNED BY	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	8	OF 57

**B01 of 82-22-48**

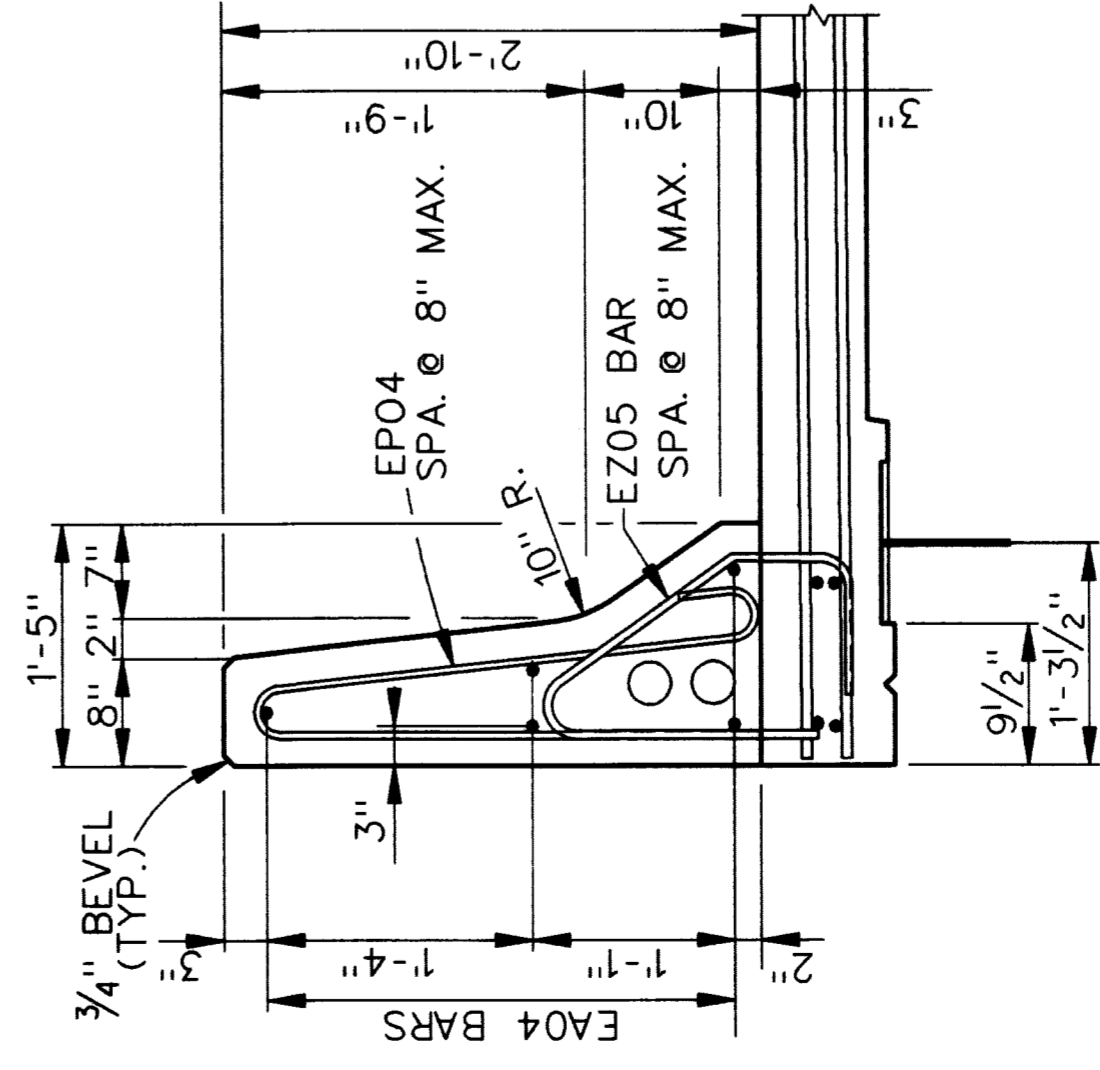


**CURVE DATA C3**

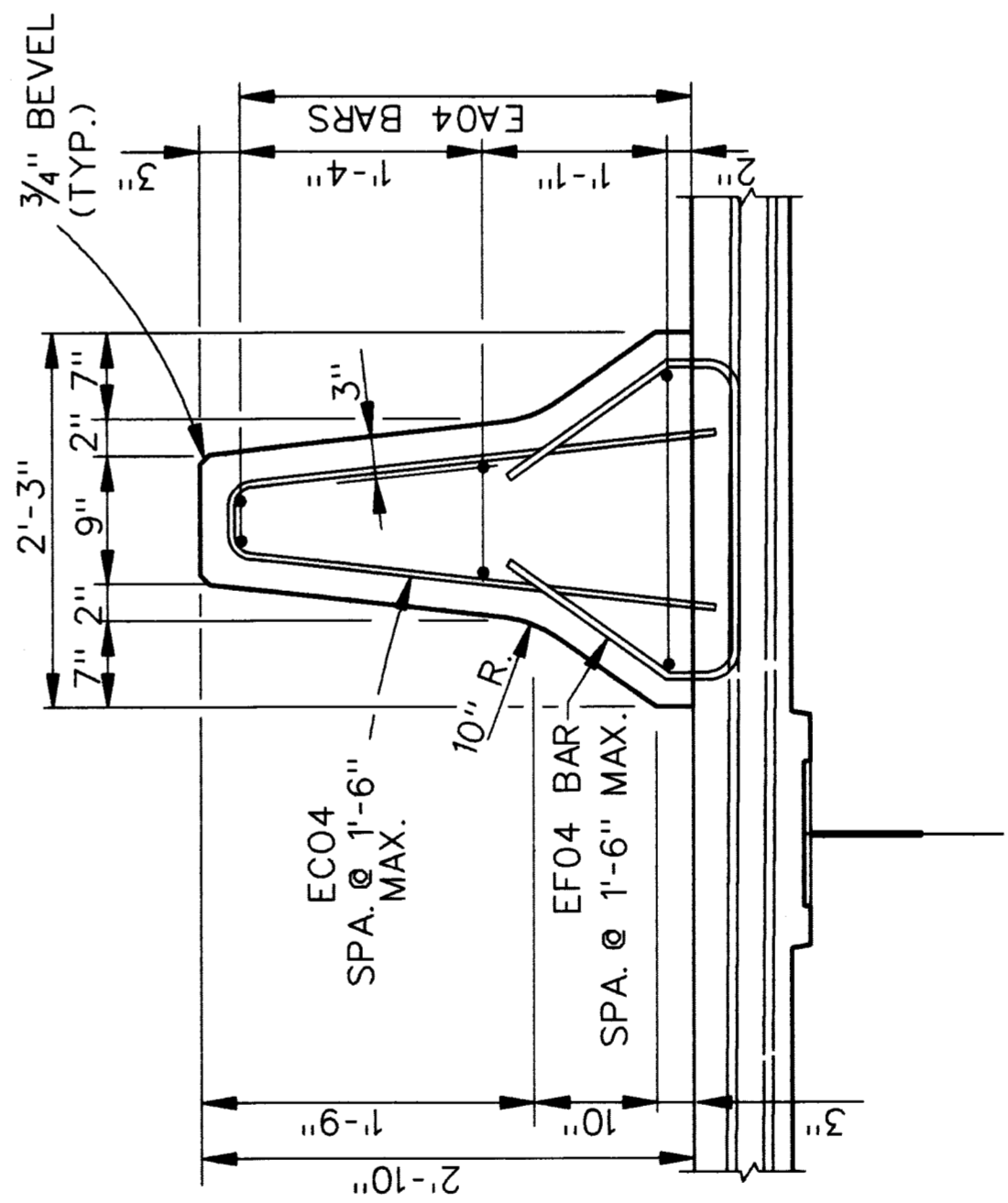
PI STA 24+61.17  
 Δ 54° 15' 00"  
 D 8° 00'  
 R 716.20'  
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 T 366.89'  
 E 88.51'



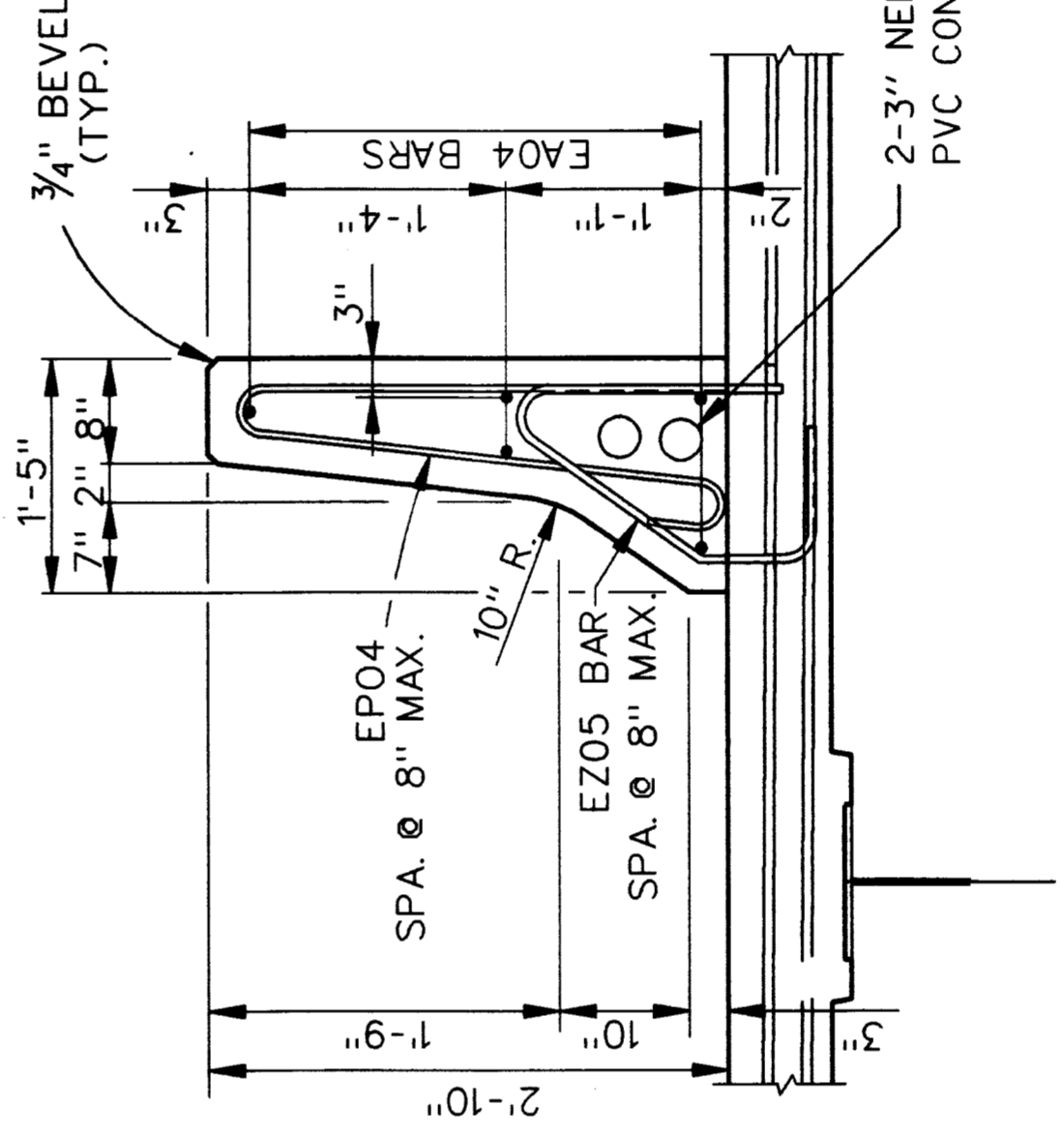
**PLAN**



**TYPICAL BARRIER SECTION**

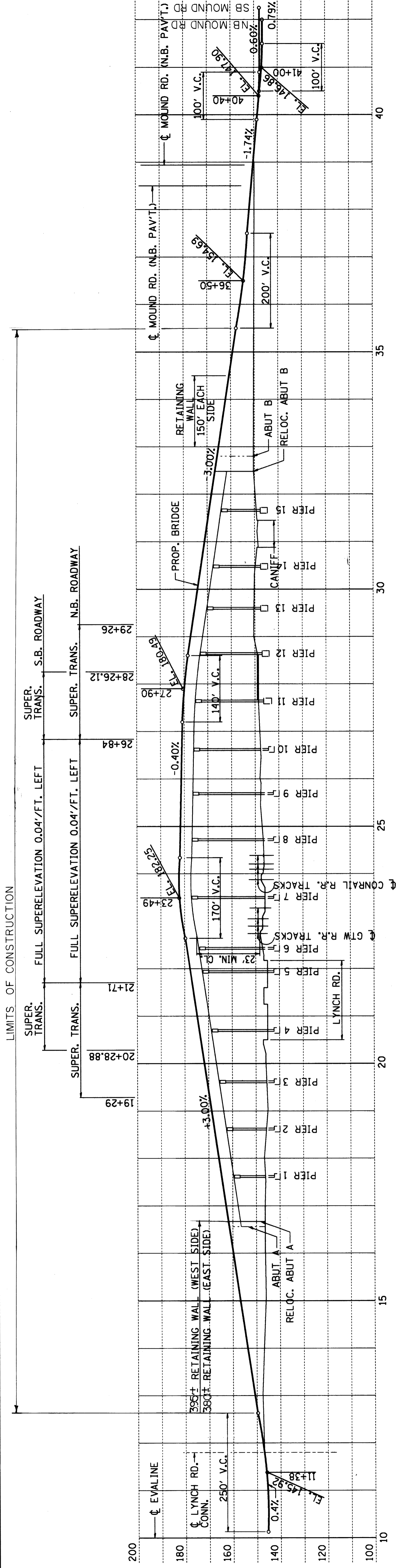


**TYPICAL MEDIAN BARRIER SECTION**



**TYPICAL BARRIER SECTION AT SIDEWALK**

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



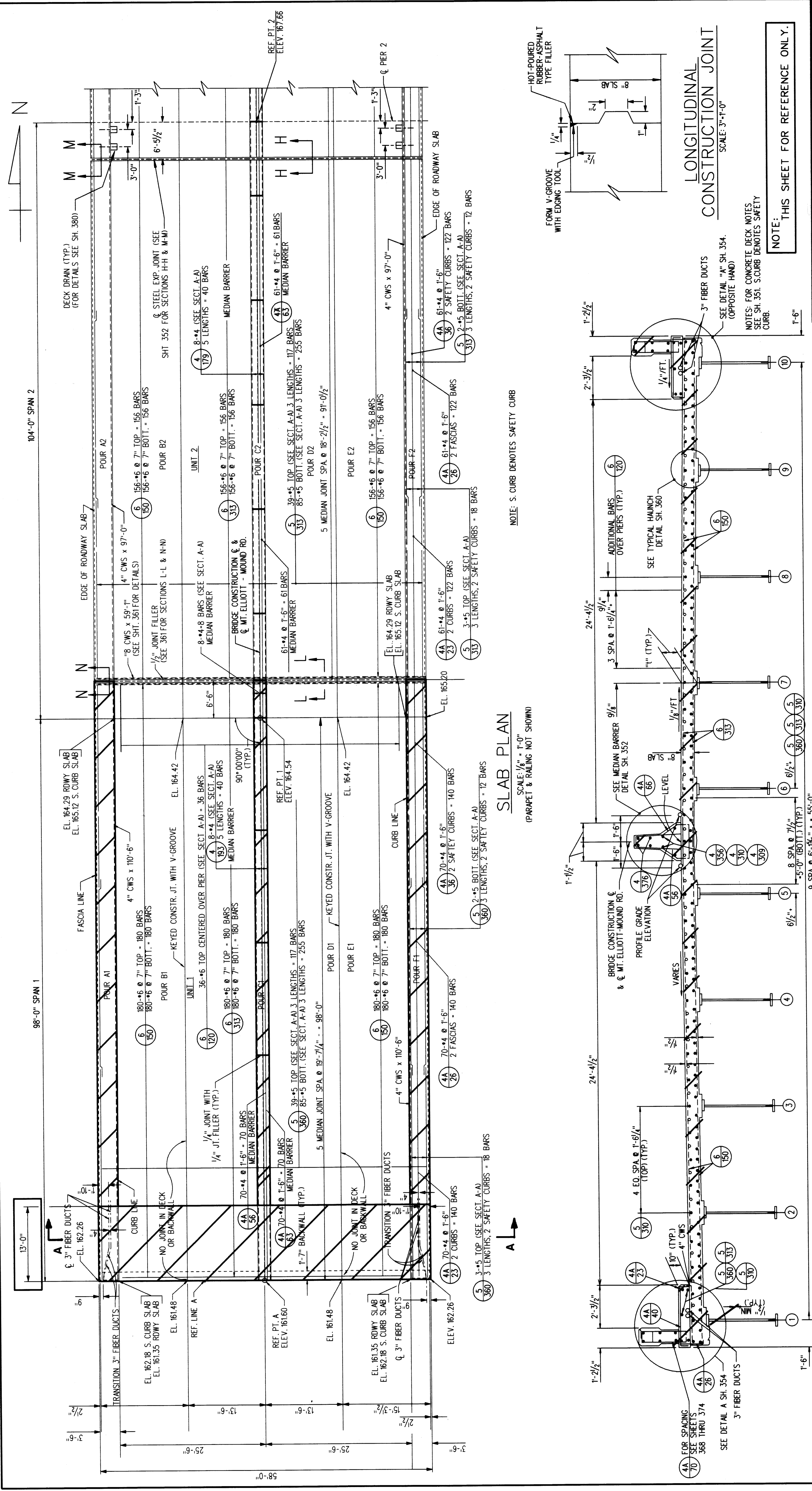
PROPOSED PROFILE ALONG  $\phi$  MOUNT ELLOITT - MOUND ROAD  
GRADE SEPARATION

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

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

NO.	DESCRIPTION	DATE	BY

DESIGNED BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET NO.	OF	TOTAL



NOTE: THIS SHEET FOR REFERENCE ONLY.

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

DESIGNED BY	NAME	DATE	6/93
CHECKED BY	NAME	DATE	1/94
DATE	11	OF	37

B01 of 82-22-48

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

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.

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

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

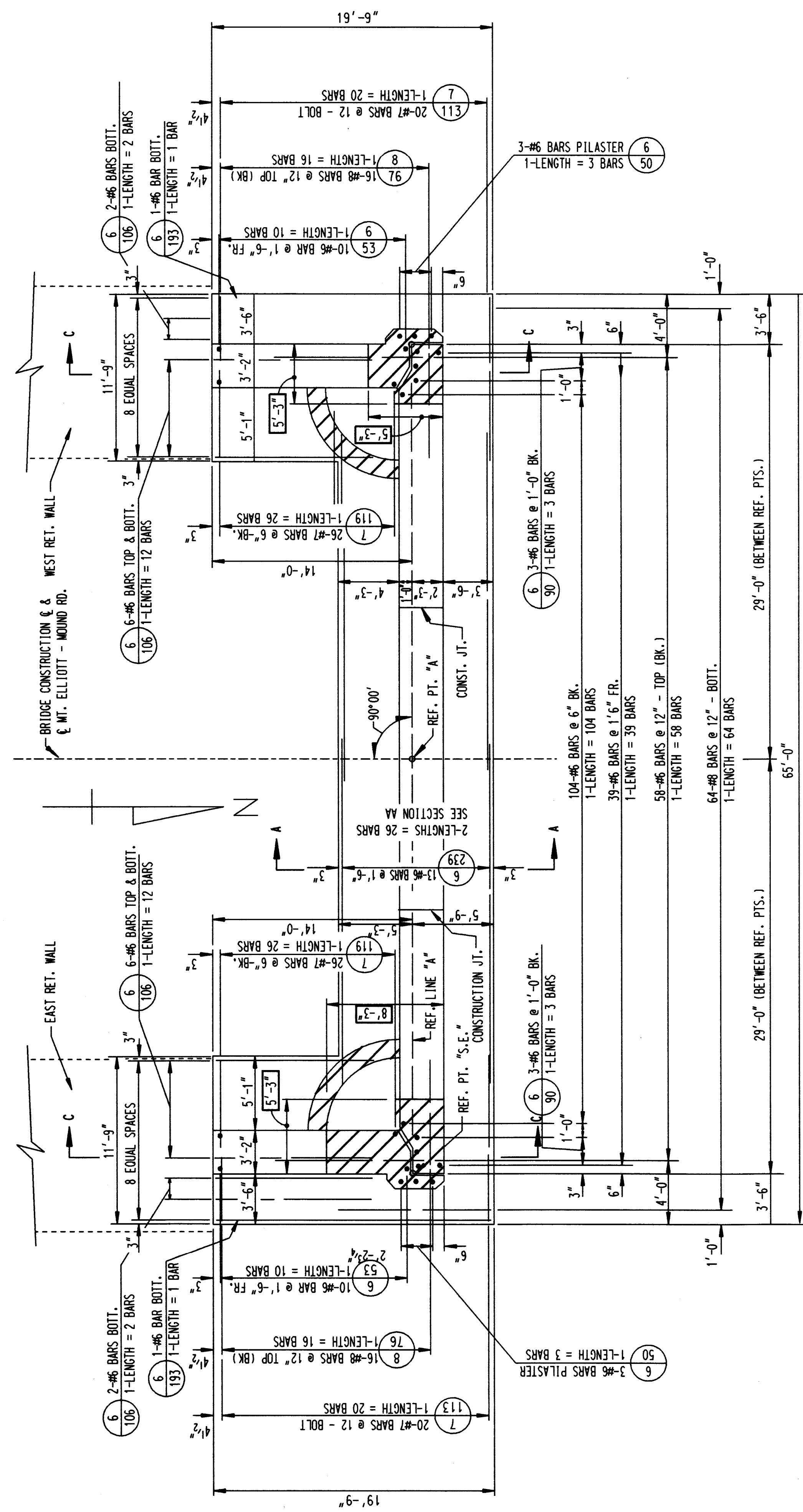
CONCRETE TO BE REMOVED

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

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







**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.

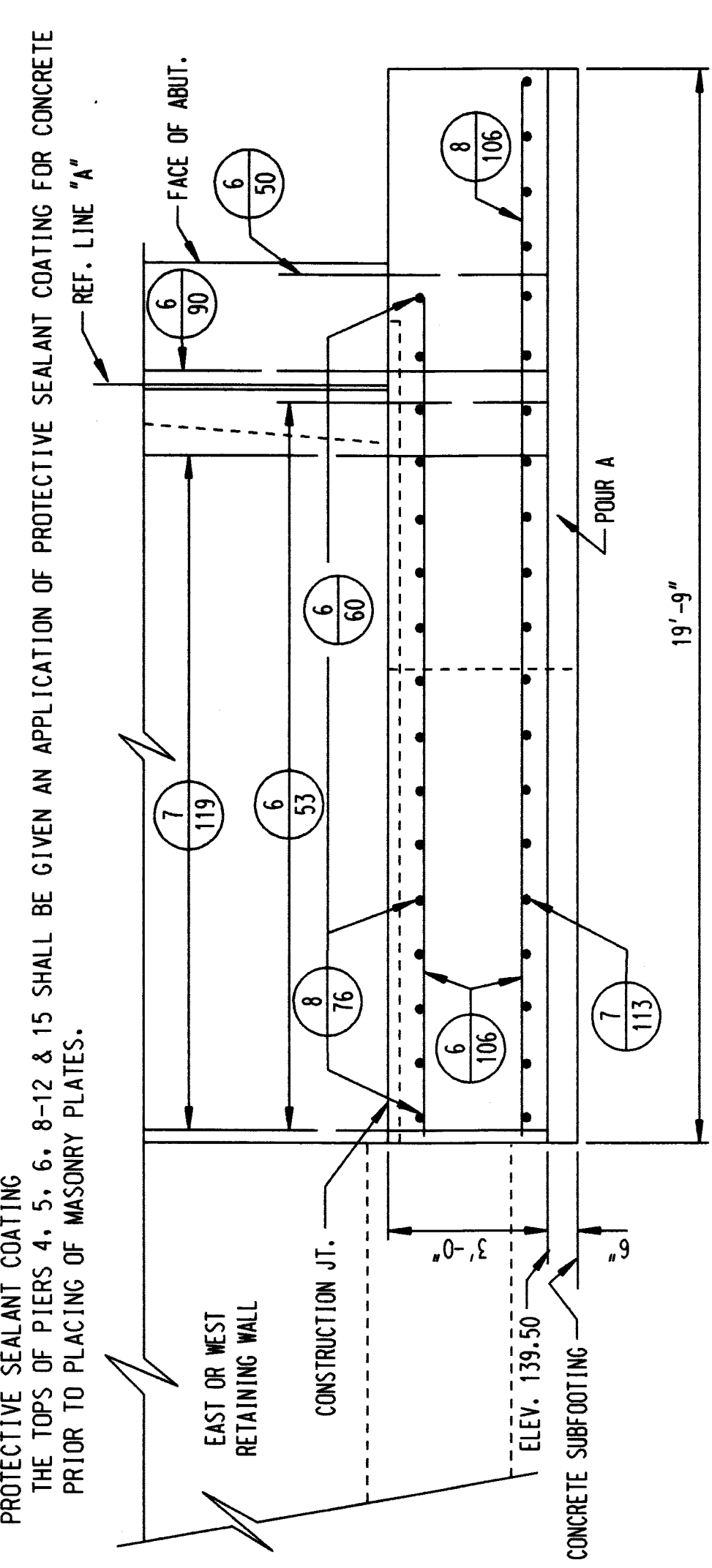
**CONCRETE POURS**

POUR	LOCATION	Cu. Yd.
A	SUBFOOTING	171.1
B	FOOTING	101.5

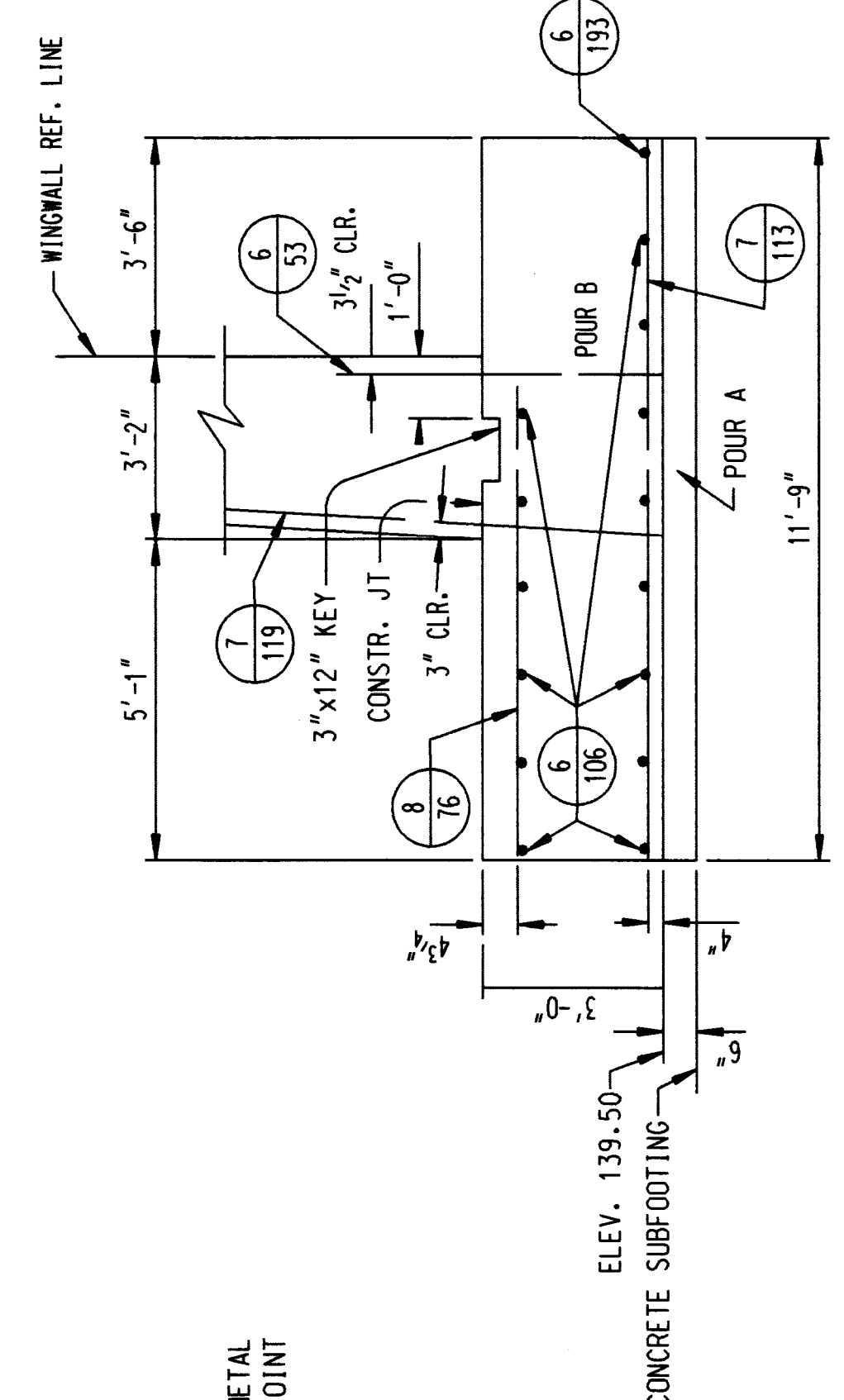
**QUANTITIES**  
 STEEL REINFORCEMENT 8-536 LBS  
 GRADE A (108 GRAVEL OR 108 SLAG) CONCRETE SUBSTRUCTURE 118-6 CU. YDS.  
 HEATING AND HOUSING SUBSTRUCTURE CONCRETE 101-5 CU. YDS.

**GENERAL NOTES**

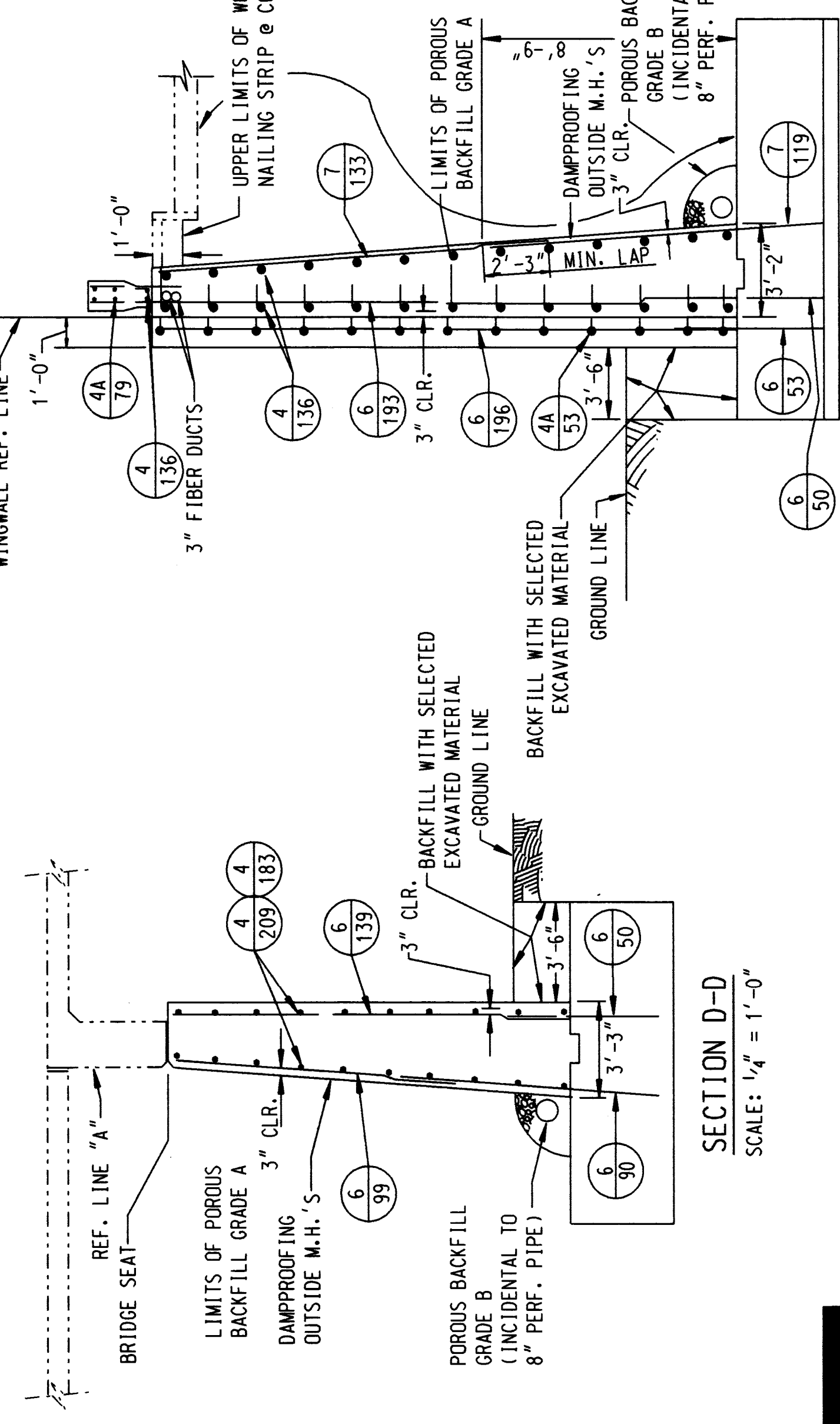
FOR REINFORCED CONCRETE  
 BRIDGE SEAT: THE BRIDGE SEAT SHALL BE FINISHED IN A TRUE PLANE AT THE ELEVATION SHOWN AND SHALL NOT VARY MORE THAN 1/8" UNDER A TEN FOOT STRAIGHT EDGE OR MORE THAN 1/16" UNDER ANY BEARING.  
 ANCHOR BOLTS AND POSITION DOWNELS: ANCHOR BOLTS AND POSITION DOWNELS SHALL BE SET ACCURATELY TO TEMPLATE.  
 STEEL REINFORCEMENT: REINFORCING STEEL 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 B-B**  
SCALE: 3/8" = 1'-0"



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

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

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

NOTE: THIS SHEET FOR REFERENCE ONLY.

CONCRETE TO BE REMOVED

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



SHEET 12 OF 57

NO.	DESCRIPTION	REVISIONS	DATE	BY

B01 of 82-22-48

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**

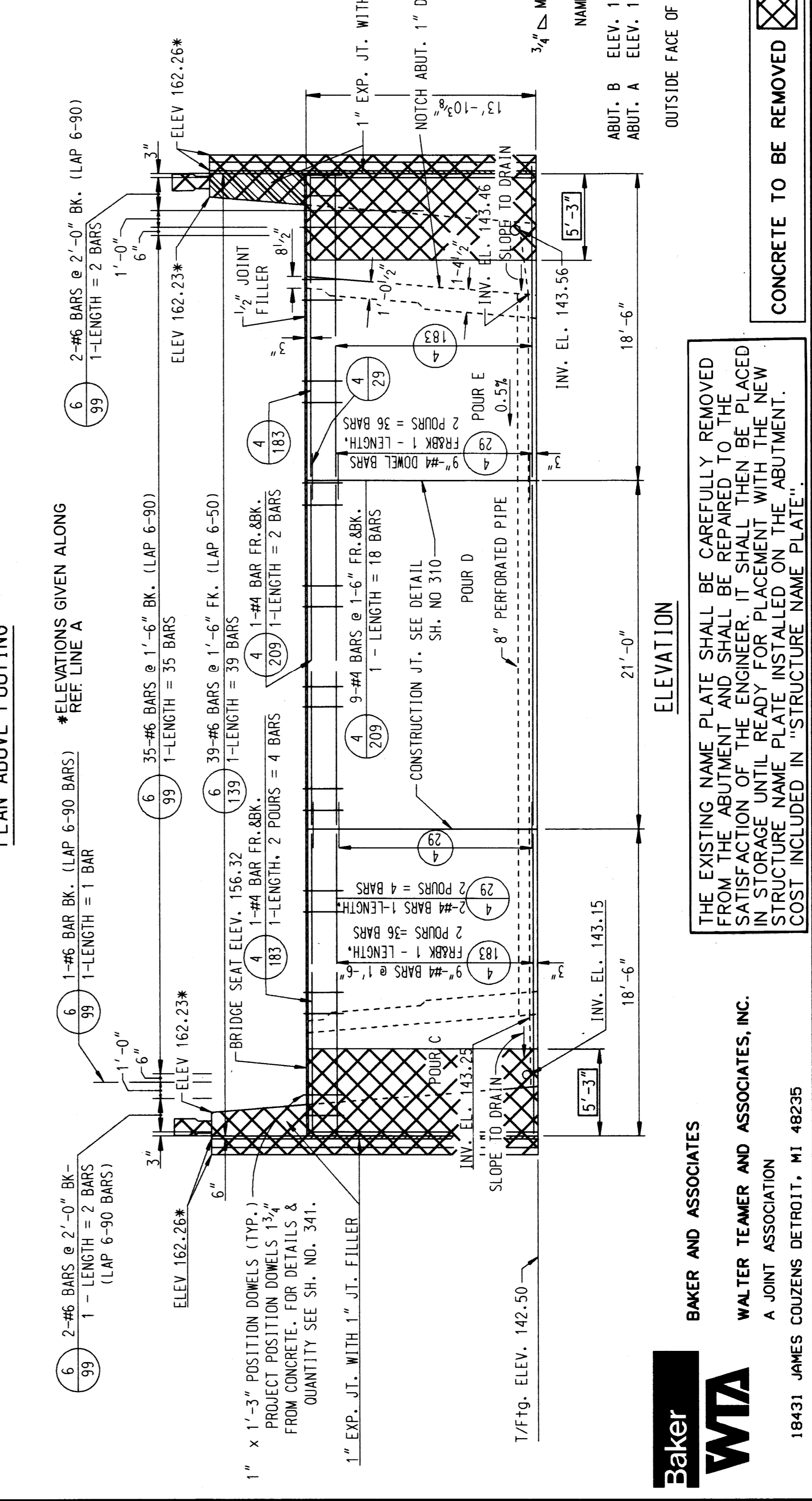
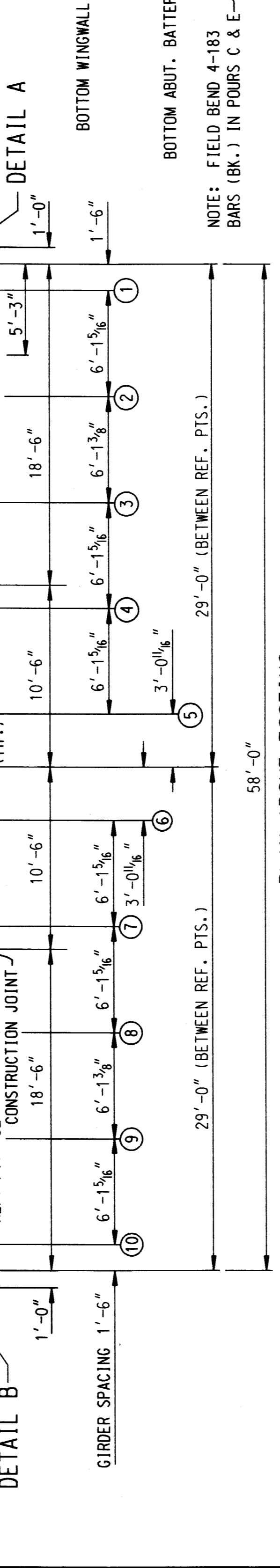
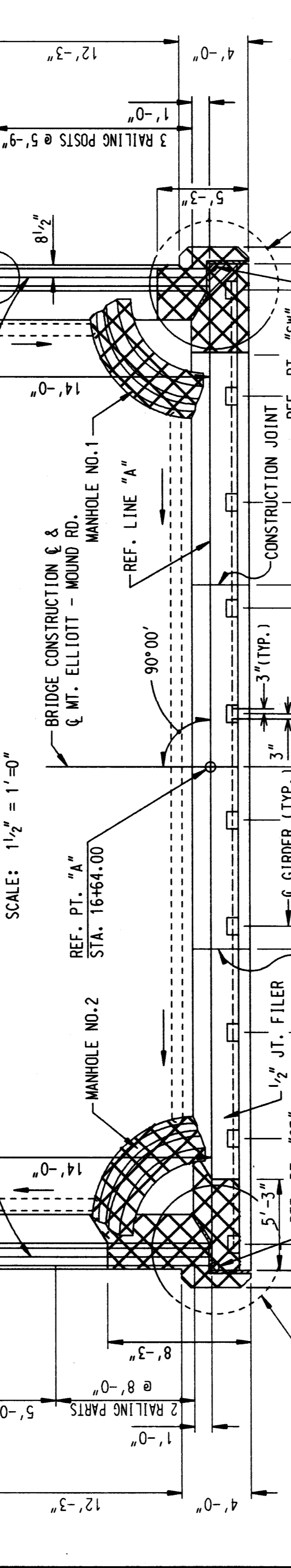
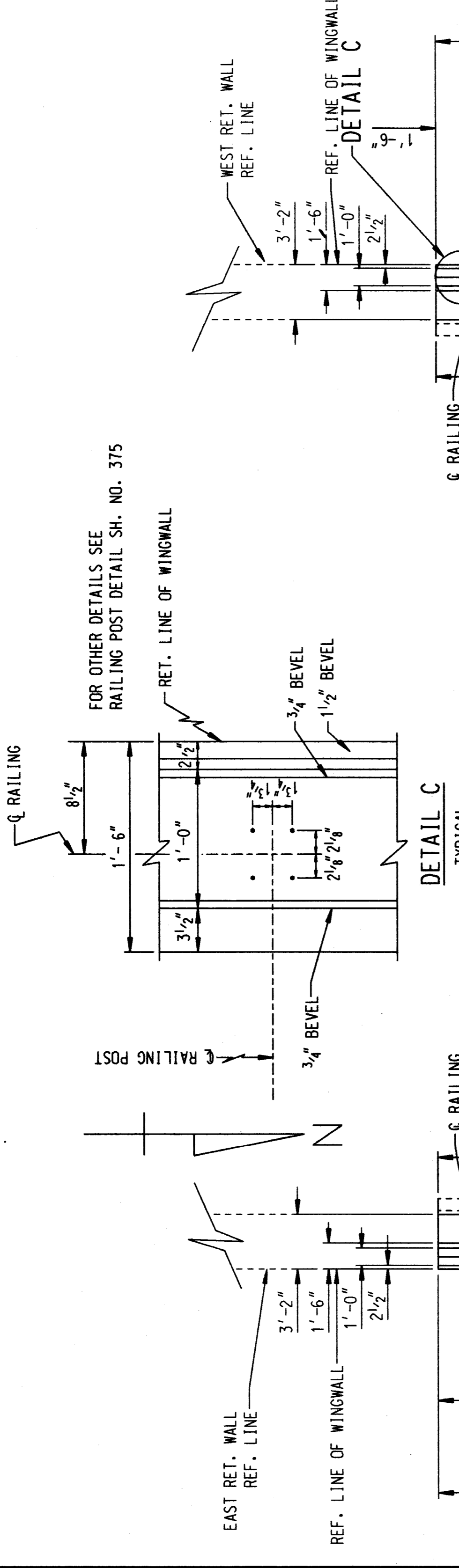
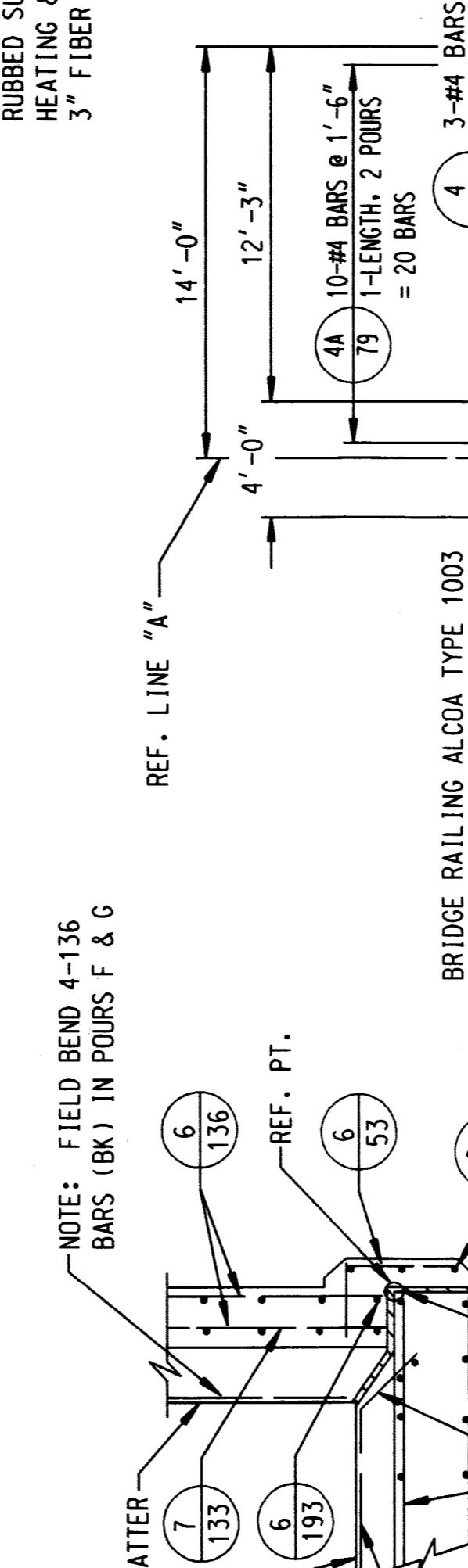
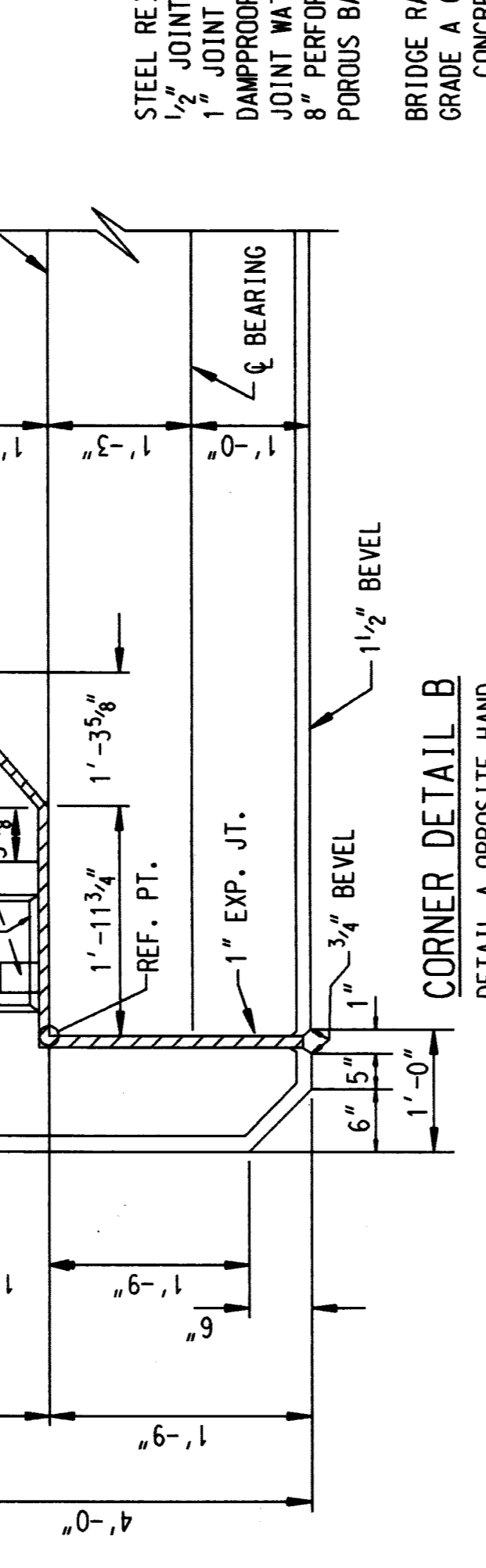
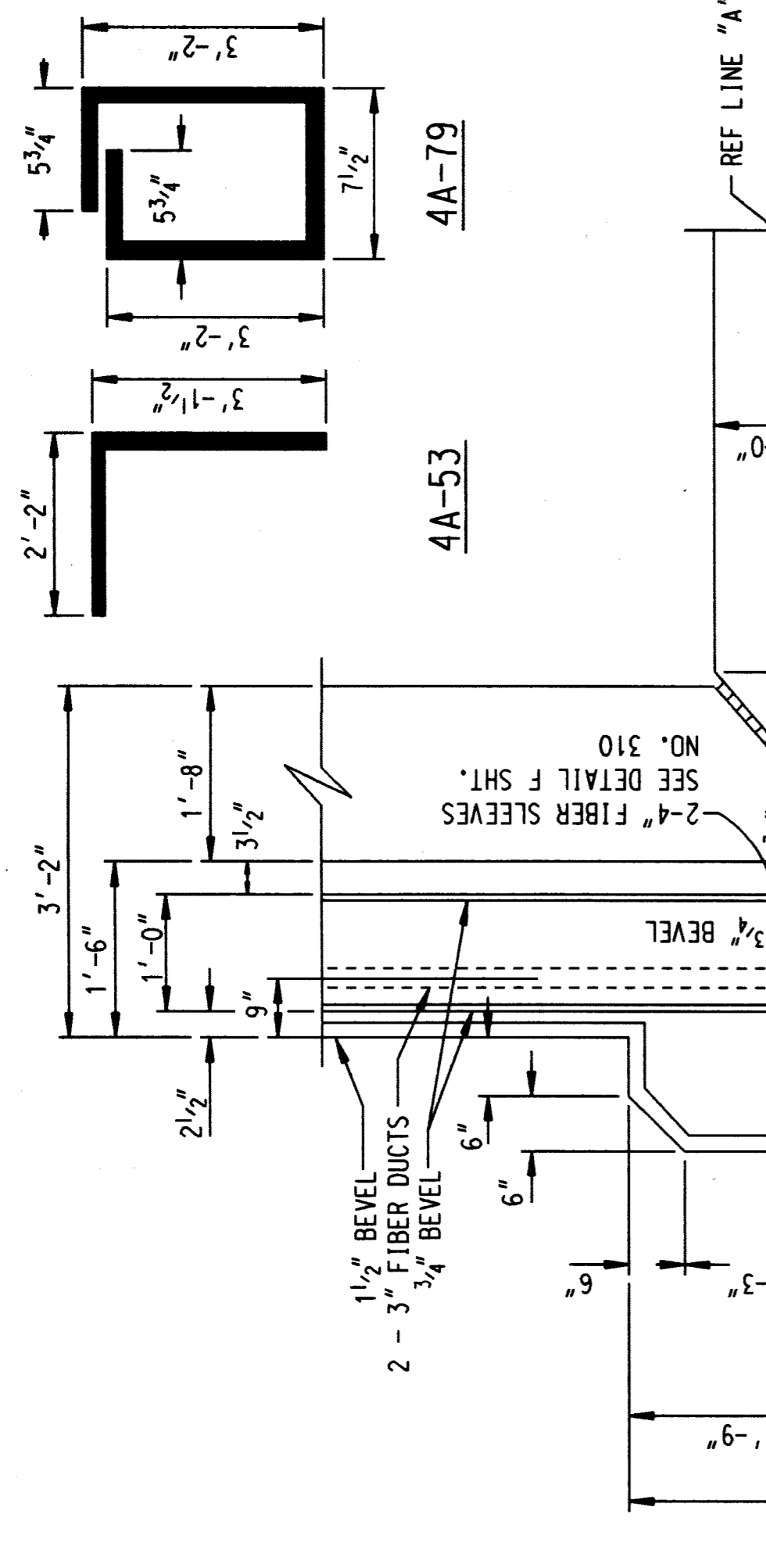
STEEL REINFORCEMENT  
 1/2" JOINT FILLER  
 1" JOINT FILLER  
 DAMPROOFING  
 JOINT WATERPROOFING  
 8" PERFORATED PIPE UNDERDRAIN  
 POKOS BACKFILL GRADE A (C.I.P.)

BRIDGE RAILING - PARAPET TYPE  
 GRADE A (108 GRAVEL OR 108 SLAG)  
 CONCRETE - SUBSTRUCTURE  
 RUBBED SURFACE FINISH  
 HEATING & HOUSING SUBSTRUCTURE CONCRETE  
 3" FIBER DUCT

4358 LBS  
 255 SO. FT.  
 188 SO. FT.  
 861 SO. FT.  
 43 SO. FT.  
 58 LIN. FT.  
 433 CU. YDS.  
 28 LIN. FT.  
 134.4 CU. YDS.  
 1414 SO. FT.  
 134.4 CU. YDS.  
 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



CONTROL SECTION B01 OF 822248 JOB NO. 13 SH. NO. 13

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

DESIGNED BY	NAME	DATE
CHECKED BY	NAME	DATE

REVISIONS

NO.	DESCRIPTION	DATE	BY
-----	-------------	------	----

NOTE: THIS SHEET FOR REFERENCE ONLY.

**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".

CONCRETE TO BE REMOVED

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

**QUANTITIES FOR FOOTING**

Steel Reinforcement 16,137 lbs.  
 Grade A(108) Gravel or 108 Slag 188.1 cu yds.  
 Concrete - Substructure 161.1 cu yds.  
 Heating and Housing Substructure

**GENERAL NOTES FOR REINFORCED CONCRETE**

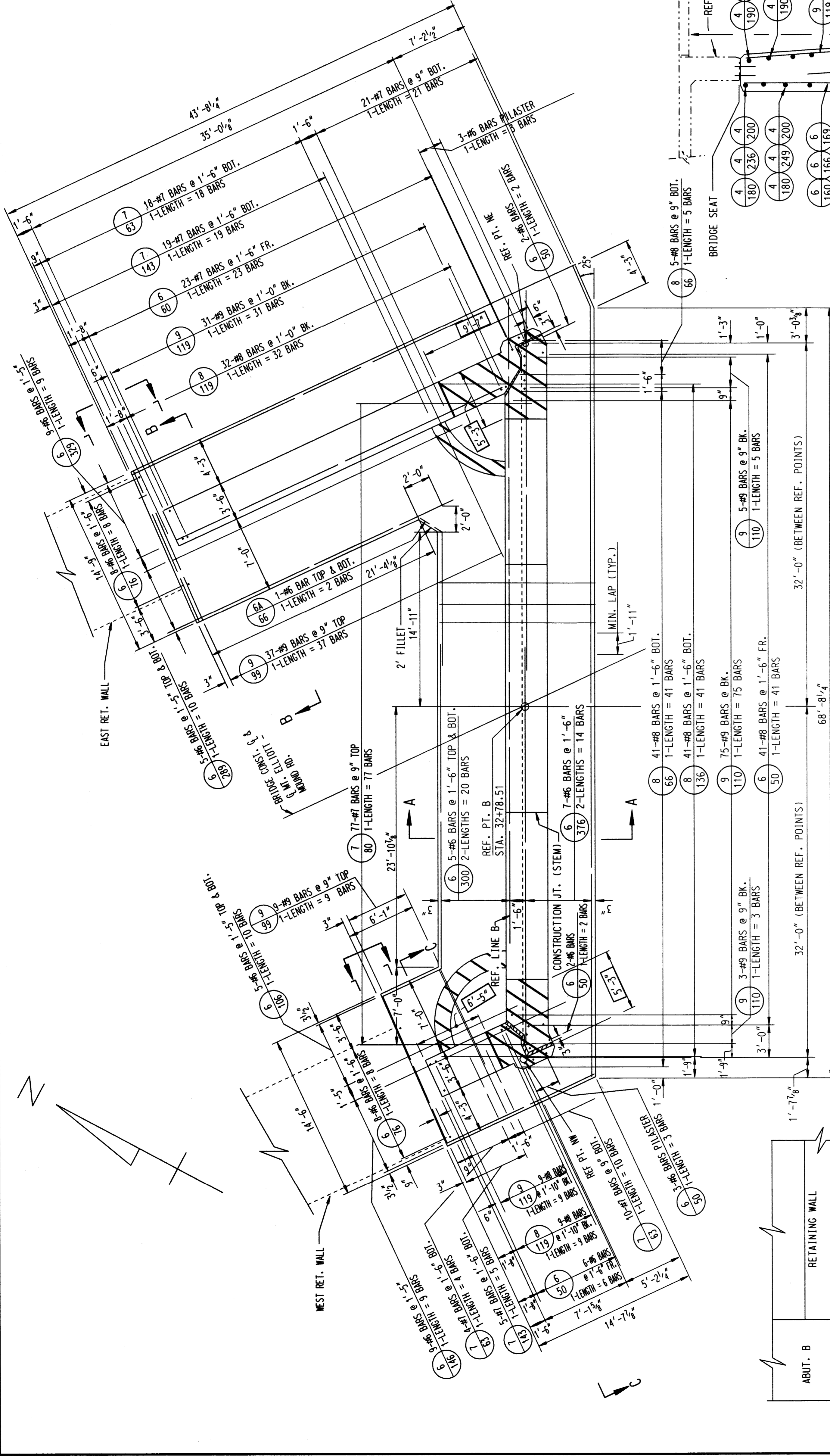
**Bridge Seat:**  
 The bridge seat shall be finished in a true plane at the elevation shown and shall not vary more than 1/8" under a ten foot straight edge or more than 1/16" under any bearing.

**Anchor Bolts and Position Dowels:**  
 Anchor bolts and Position Dowels shall be set accurately to template.

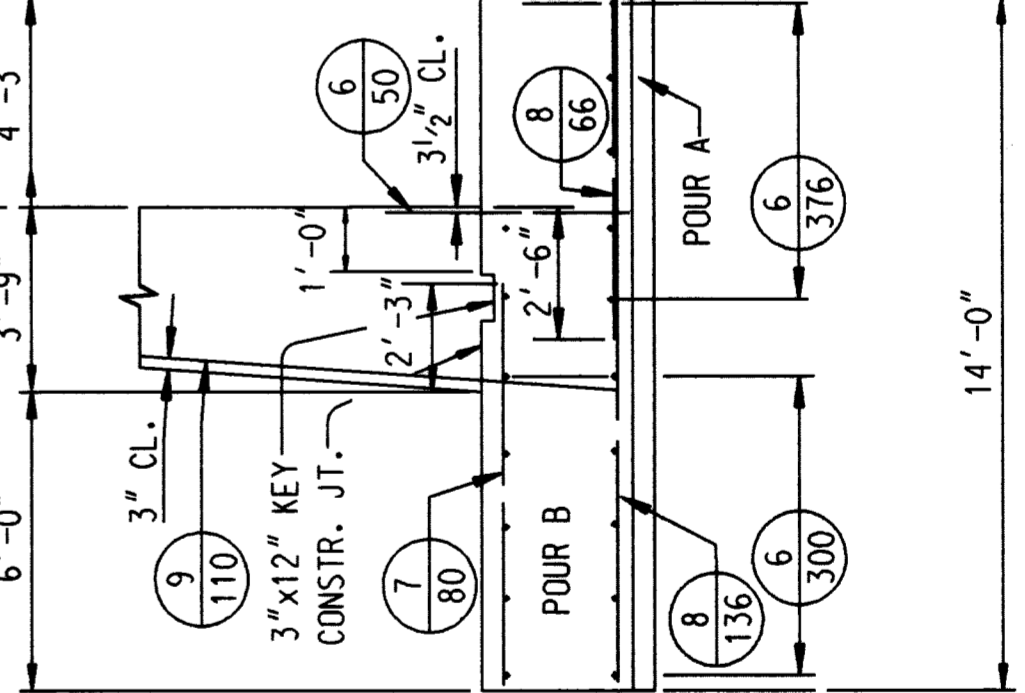
**Steel Reinforcement:**  
 Bends for all bars shall be made around pin diameters as recommended by the Concrete Reinforcing Steel Institute.

**QUANTITIES FOR ABOVE FOOTING**

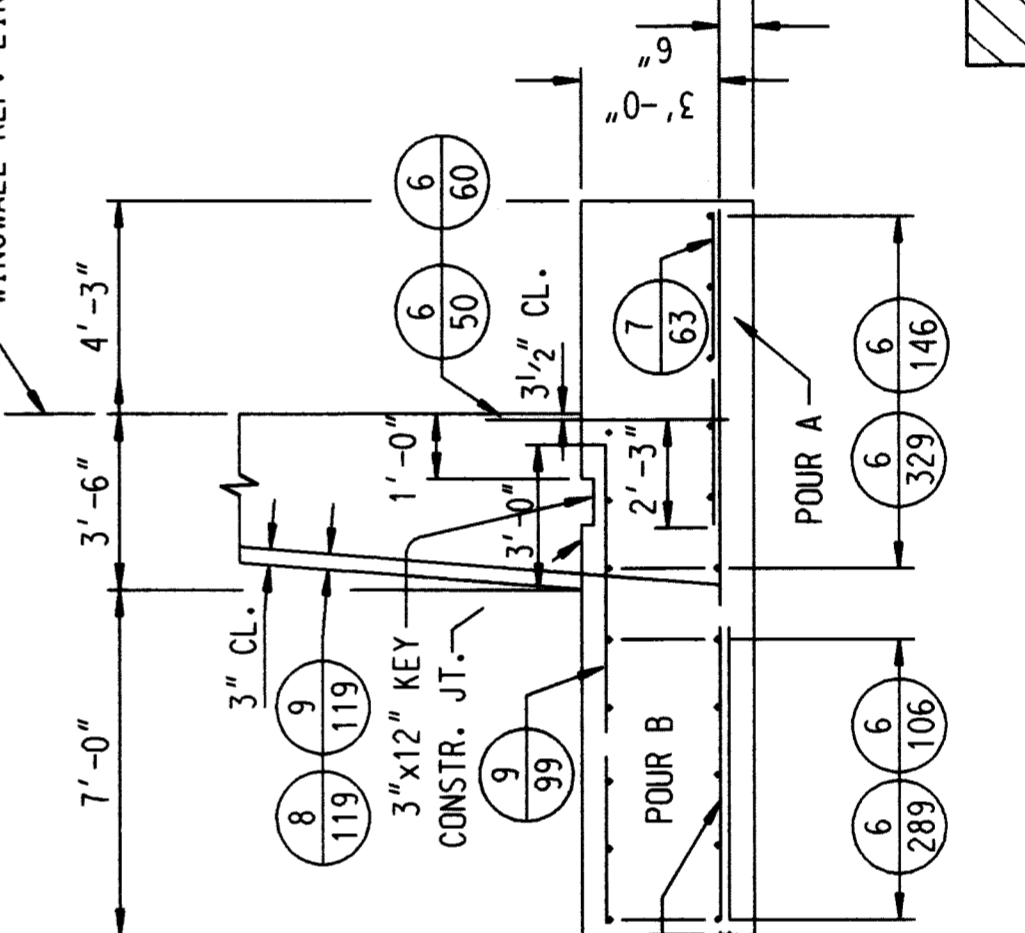
Steel Reinforcement 8,292 lbs.  
 1/2" Joint Filler 100 sq. Ft.  
 1" Joint Filler 242 sq. Ft.  
 Dampproofing 1443 sq. Ft.  
 Joint Waterproofing 55 sq. Ft.  
 8" Perforated Pipe Underdrain 76 Lin. Ft.  
 8" Cast Iron Pipe 9 Lin. Ft.  
 Porous Backfill Grade A(C.I.P.) 1013 Cu. Yds.  
 Fence on Structure and Retaining Walls 42 Lin. Ft.  
 Bridge Railing - Parapet Type Grade A(108) Gravel or 108 Slag 42 Lin. Ft.  
 Concrete - Substructure 211.3 Cu. Yds.  
 Rubbed Surface Finish 1941 sq. Ft.  
 Heating and Housing Substructure Concrete 211.3 Cu. Yds.  
 3" Flyer Duct 85 Lin. Ft.



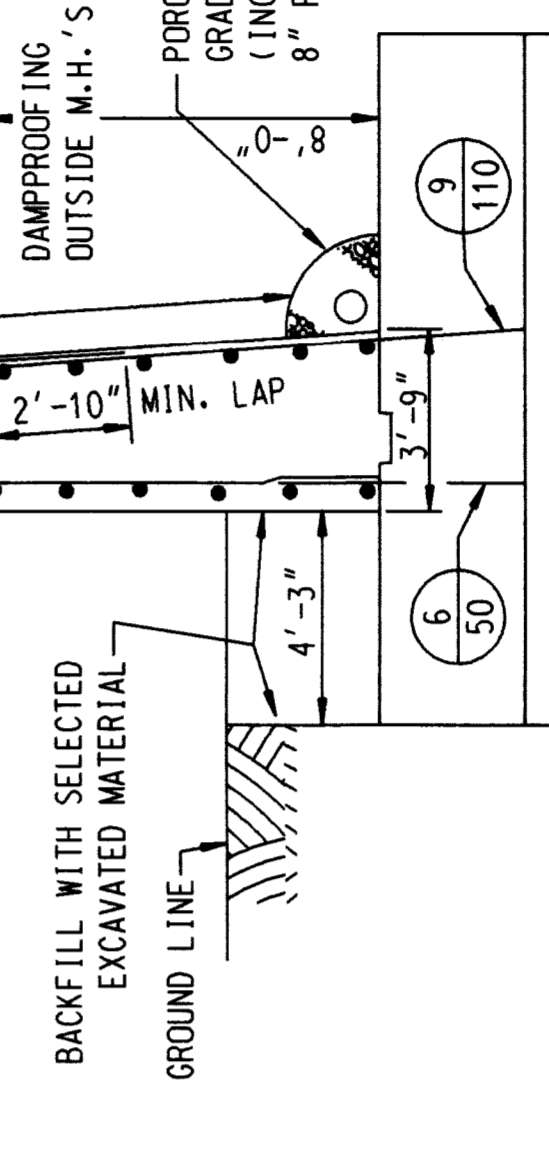
**PLAN**  
 (UNDERDRAINS NOT SHOWN)



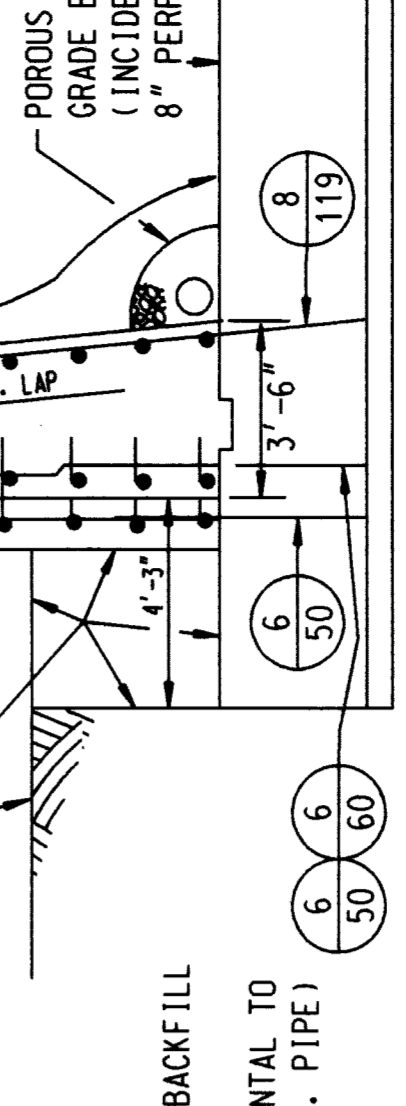
**SECTION A-A**



**SECTION B-B & C-C**



**SECTION D-D**



**SECTION E-E**

**NOTE:** THIS SHEET FOR REFERENCE ONLY.

NO.	DESCRIPTION	DATE	BY

CONCRETE TO BE REMOVED

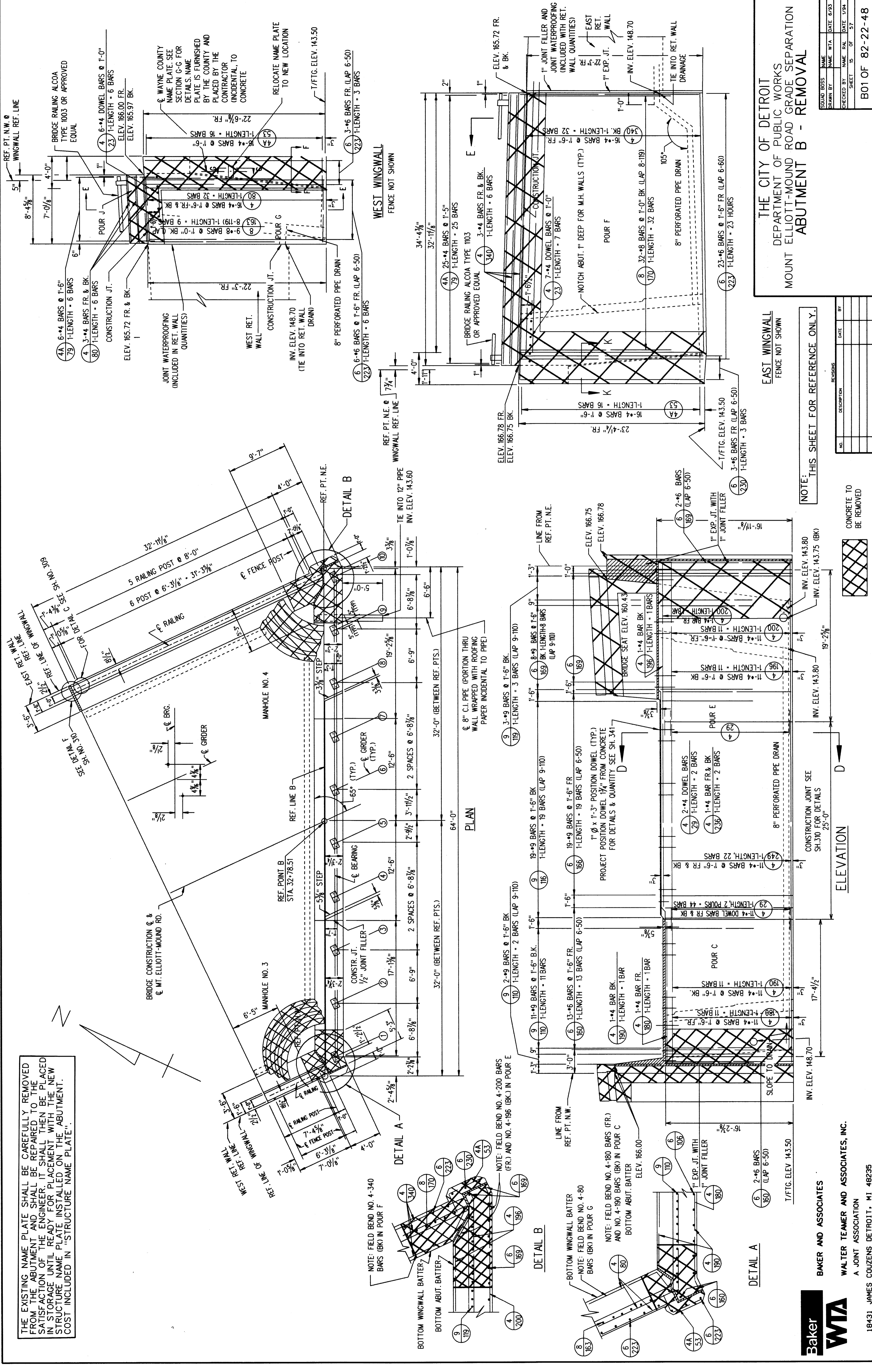
THE CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
 ABUTMENT B - REMOVAL

DESIGNED BY	CHECKED BY	DATE



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

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".



NOTE: FIELD BEND NO. 4-200 BARS (FR.) AND NO. 4-196 (BK.) IN POUR E

NOTE: FIELD BEND NO. 4-180 BARS (FR.) AND NO. 4-190 BARS (BK.) IN POUR C

NOTE: FIELD BEND NO. 4-80 BARS (BK.) IN POUR G

NOTE: FIELD BEND NO. 4-200 BARS (FR.) AND NO. 4-196 (BK.) IN POUR E

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

NOTE: THIS SHEET FOR REFERENCE ONLY.

NO.	DESCRIPTION	DATE	BY

CONCRETE TO BE REMOVED

CONSTRUCTION JOINT SEE SH-310 FOR DETAILS

CONSTRUCTION JOINT SEE SH-310 FOR DETAILS

CONSTRUCTION JOINT SEE SH-310 FOR DETAILS

CONSTRUCTION JOINT SEE SH-310 FOR DETAILS

CONSTRUCTION JOINT SEE SH-310 FOR DETAILS

CONSTRUCTION JOINT SEE SH-310 FOR DETAILS



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

18431 JAMES COUZENS DETROIT, MI 48235

203297 (Rev) 01/10/17.dgn

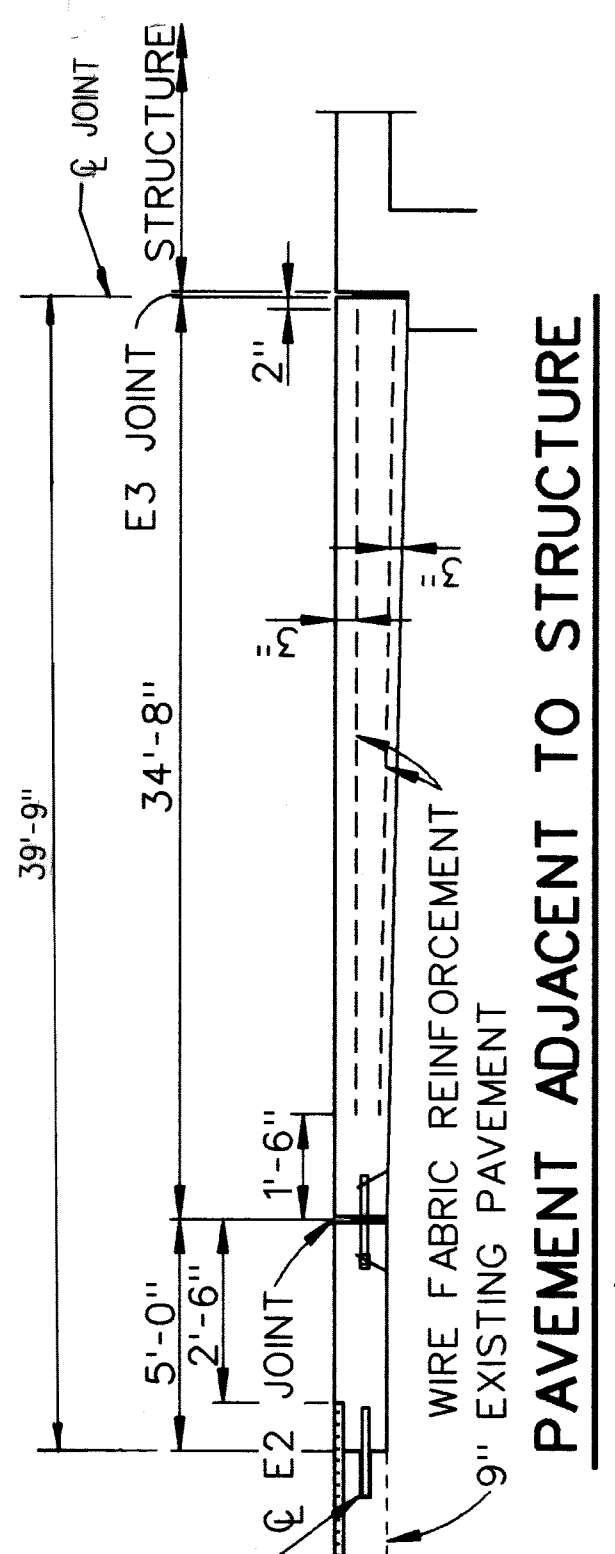
DRAWN BY	NAME	DATE

CHECKED BY	NAME	DATE

SHEET 15 OF 37

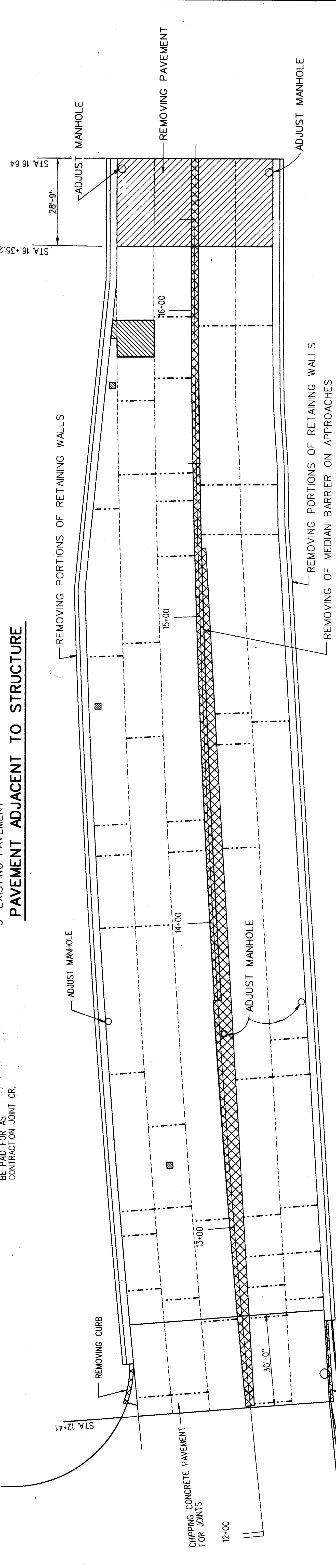
B01 OF 82-22-48





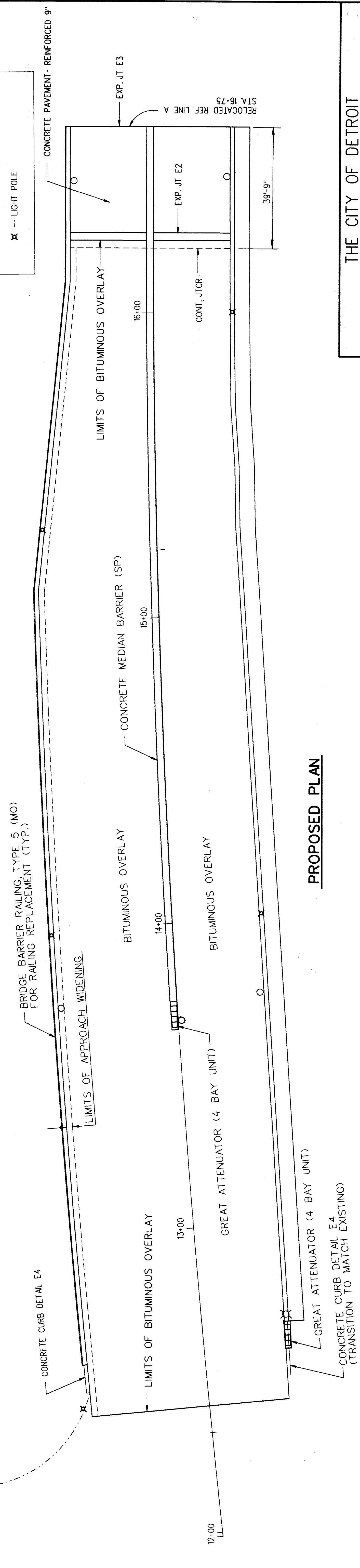
\*TRANSVERSE JOINT CONNECTING NEW PAVEMENT TO EXISTING PAVEMENT

\*NOTE: THIS JOINT WILL BE PAID FOR AS CONTRACTION JOINT CR.



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

**EXISTING PLAN**



**PROPOSED PLAN**

NOTE: WORK THIS SHEET WITH SHEETS 17 TO 21.

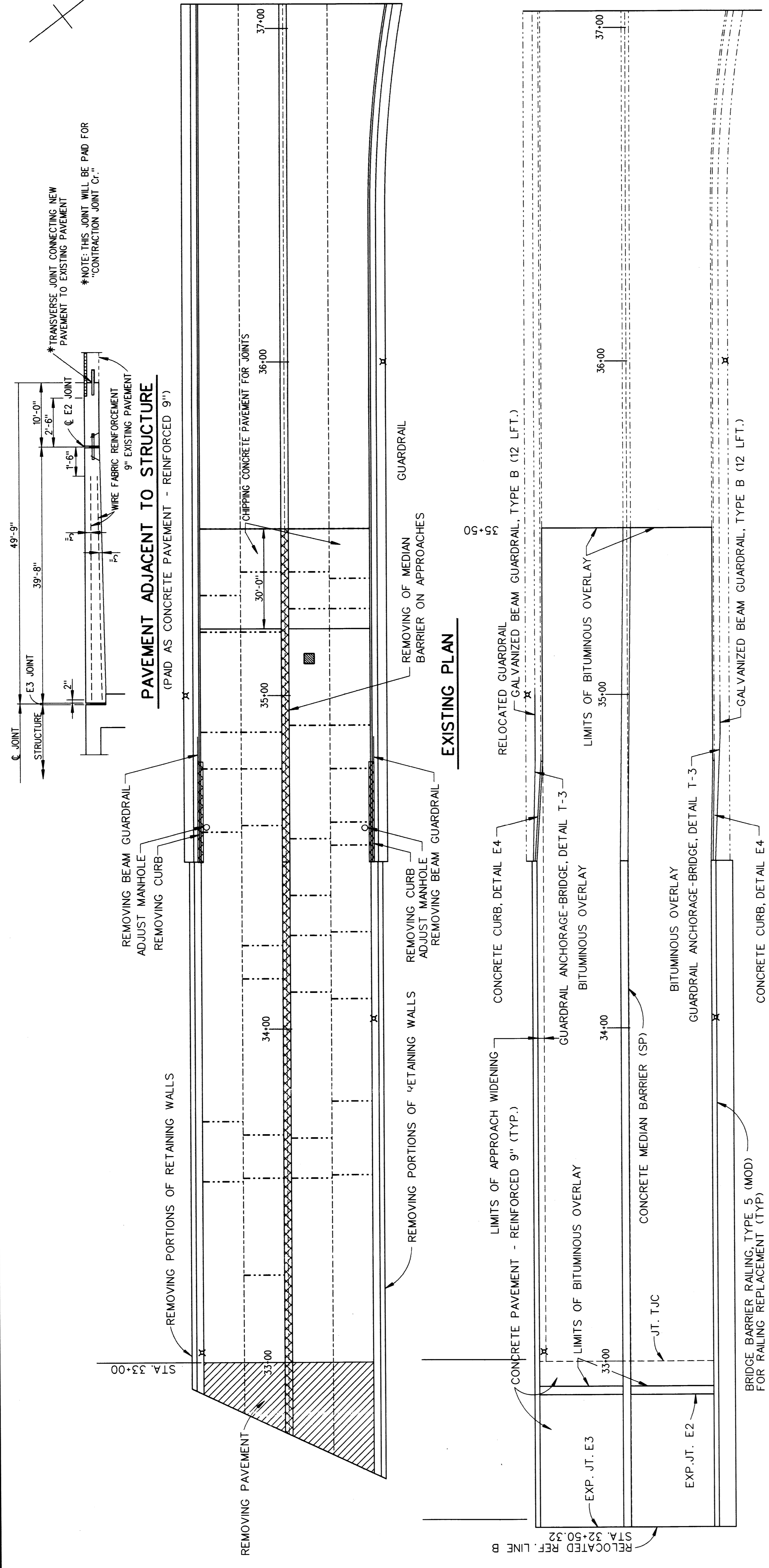
**Baker**  
**WTA**  
 BAKER AND ASSOCIATES  
 WALTER TEAMER AND ASSOCIATES, INC.  
 A JOINT ASSOCIATION  
 18431 JAMES COUZENS DETROIT, MI 48235

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

DESIGNED BY	NAME	DATE
CHECKED BY	NAME	DATE
DRAWN BY	NAME	DATE
SHEET	16	OF 57

B01 of 82-22-48

NO.	DESCRIPTION	DATE	BY



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

**LEGEND**  
 [Hatched Box] - DENOTES REMOVING PAVEMENT  
 [Dashed Line] - DENOTES REPAIRING PAVEMENT JOINTS AND CRACKS, DETAIL 7  
 [X] - LIGHT POLE

**MISCELLANEOUS QUANTITIES**

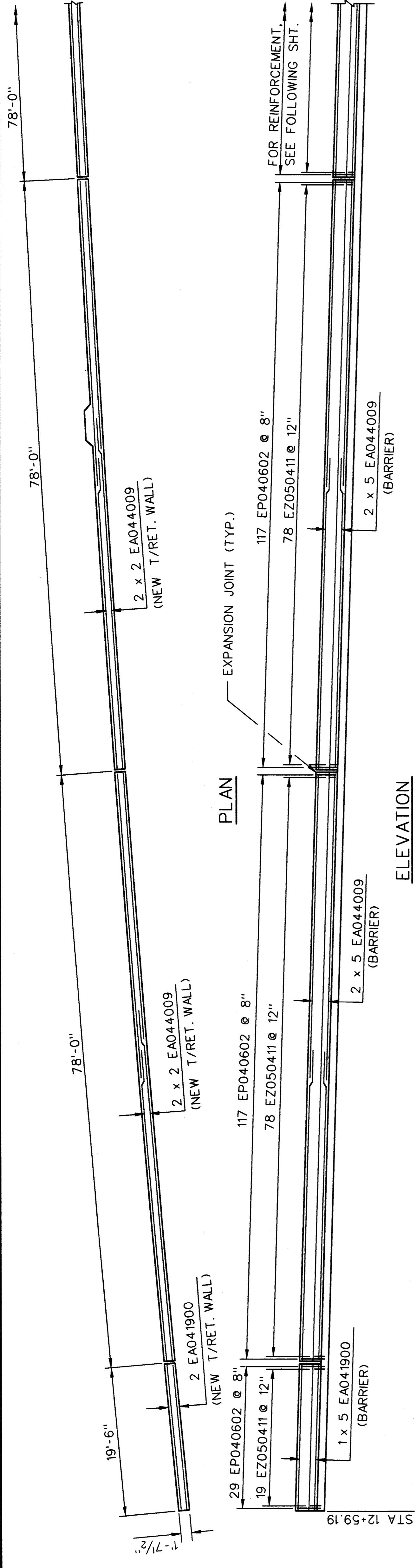
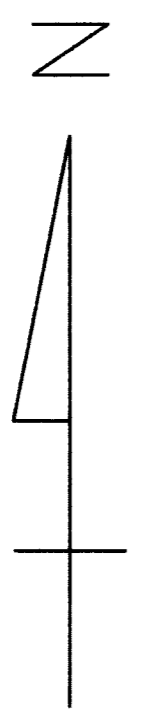
ITEM	UNIT	AMOUNT
REMOVING PAVEMENT	SYD	377
REMOVING CURB	LFT	69
REMOVING PORTIONS OF RETAINING WALLS	LFT	1,076
REMOVING OF MEDIAN BARRIER ON APPROACHES	LFT	606
REMOVING BEAM GUARDRAIL	LFT	256
BITUMINOUS PRIME COAT	GAL	429
CHIPPING CONCRETE PAVEMENT FOR JOINTS	SYD	377
REPAIRING PAVEMENT JOINTS AND CRACKS, 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

NOTE: WORK THIS SHEET WITH SHEETS 20 AND 21.

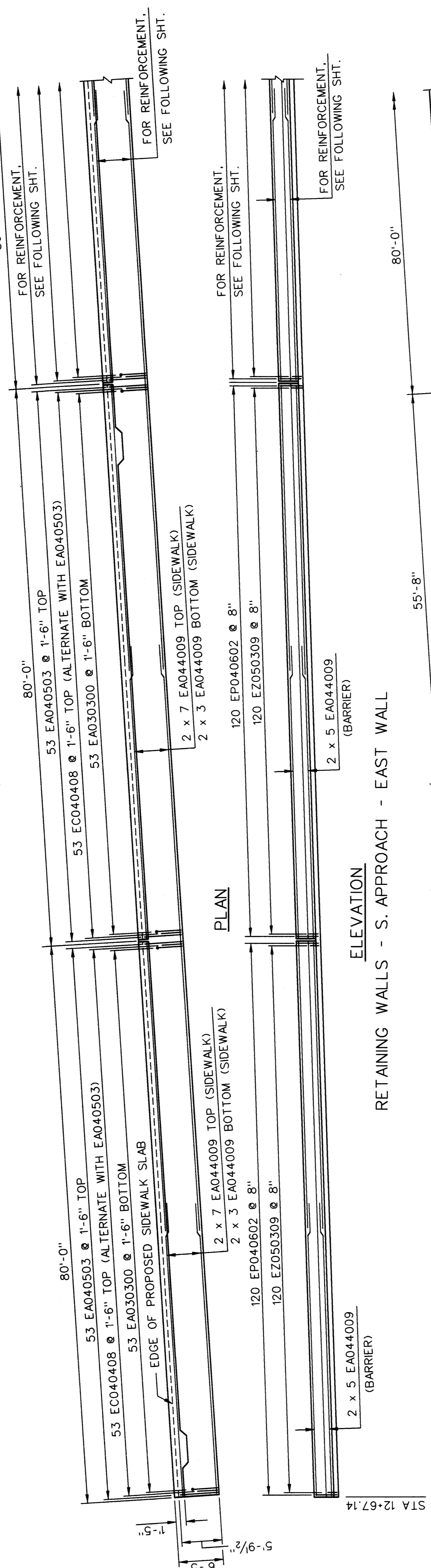
**CITY OF DETROIT**  
 DEPARTMENT OF PUBLIC WORKS  
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
 GENERAL PLAN NORTH APPROACH

DESIGNED BY	NAME	DATE
CHECKED BY	NAME	DATE
DRAWN BY	NAME	DATE
SCALE	DATE	DATE

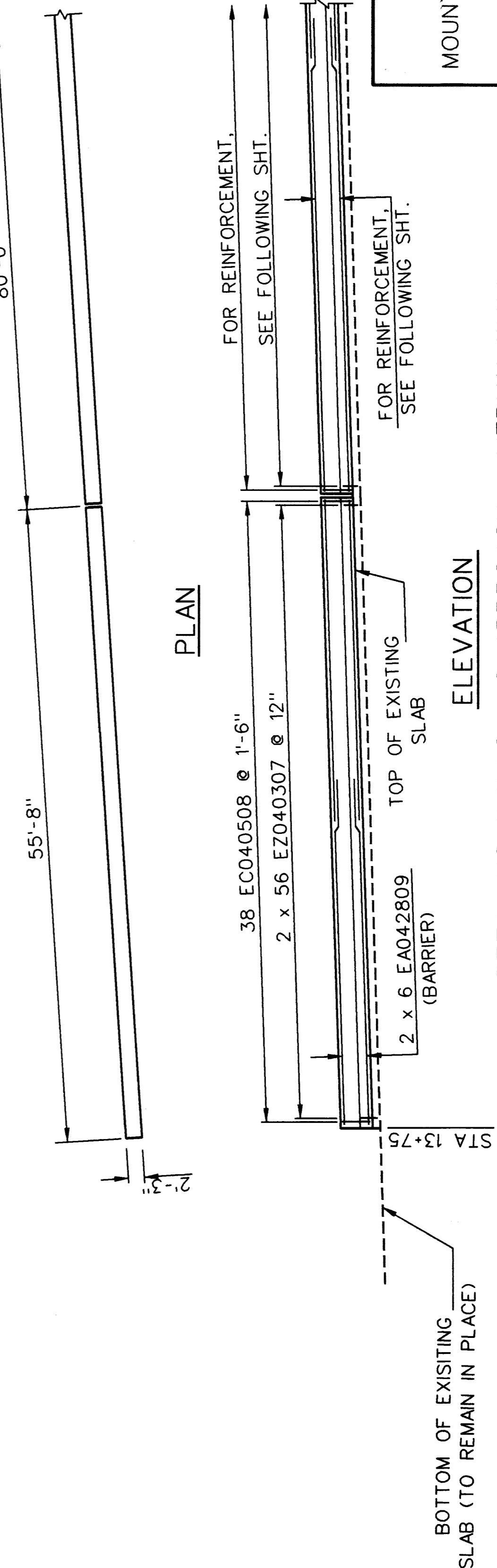
SHEET 17 OF 57  
**B01 of 82-22-48**



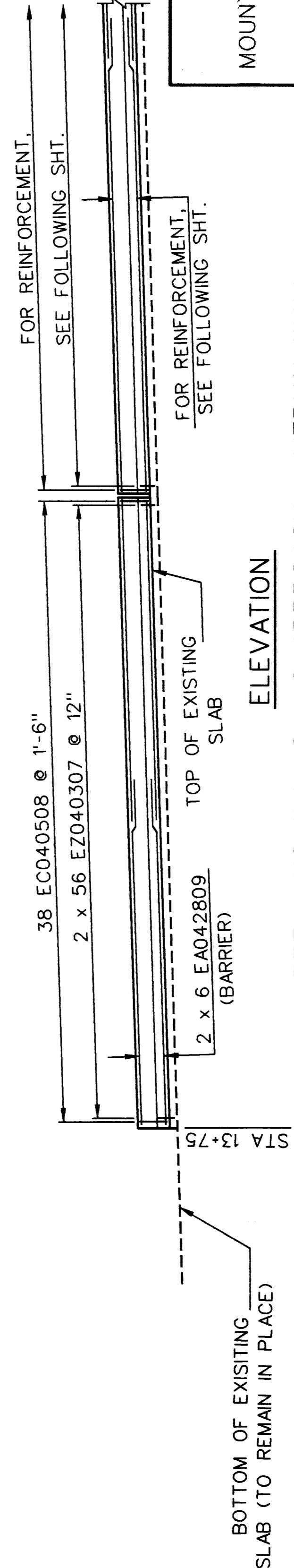
**ELEVATION**  
RETAINING WALLS - S. APPROACH - WEST WALL



**ELEVATION**  
RETAINING WALLS - S. APPROACH - EAST WALL



**PLAN**



**ELEVATION**

RETAINING WALLS - S. APPROACH - MEDIAN WALL

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

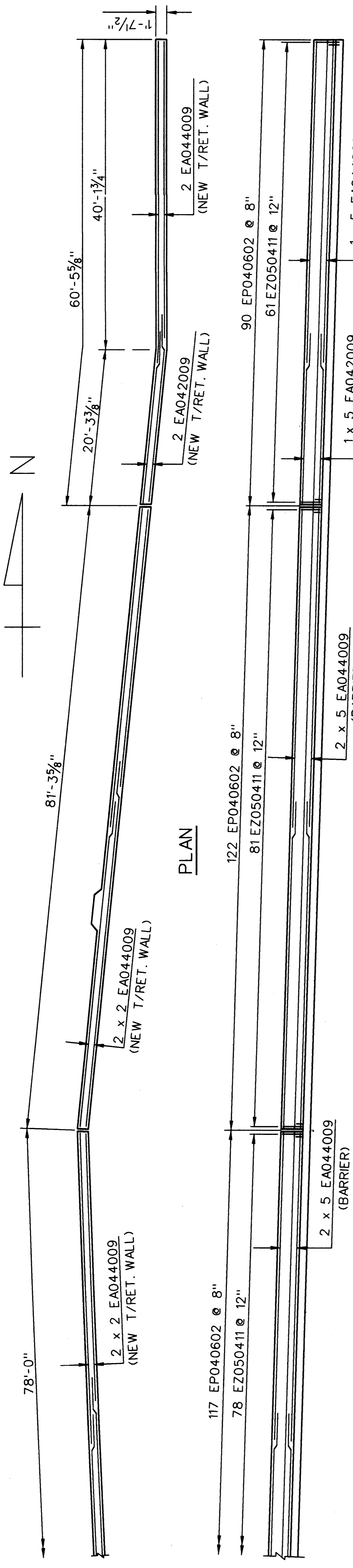
THE CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
RETAINING WALLS  
STA. 12+59 TO 16+51

DESIGNED BY	NAME	DATE
CHECKED BY	NAME	DATE
DRAWN BY	NAME	DATE
SHEET	18	OF 57

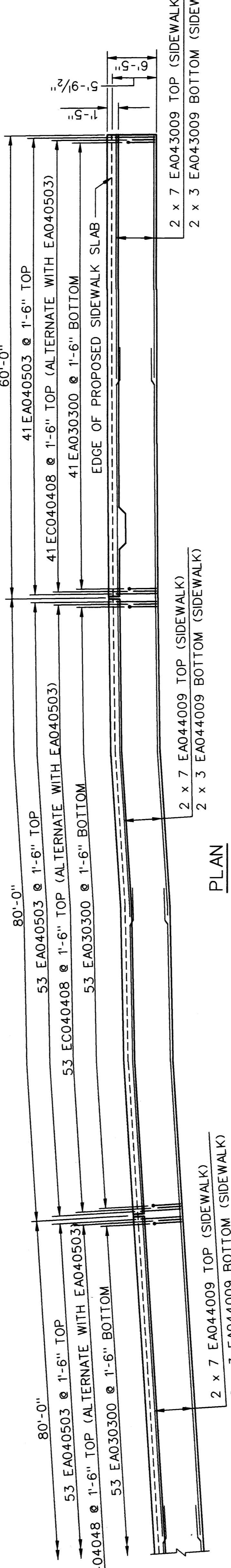
B01 of 82-22-48

NO.	DESCRIPTION	DATE	BY

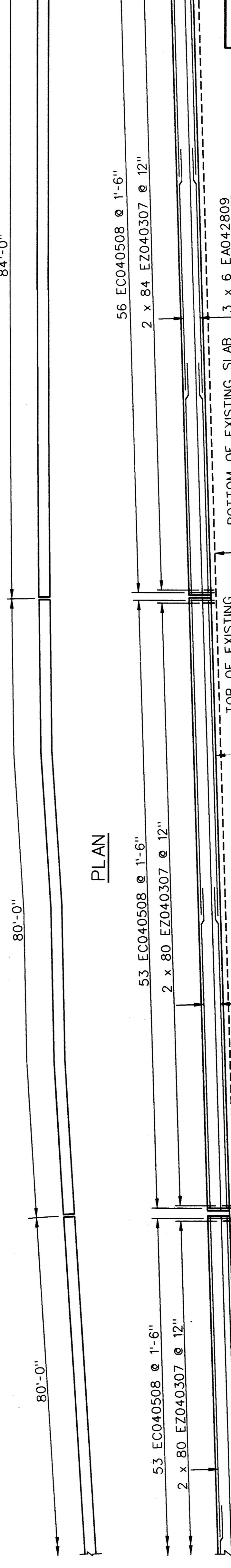
**Baker**  
**WTA**  
BAKER AND ASSOCIATES  
WALTER TEAMER AND ASSOCIATES, INC.  
A JOINT ASSOCIATION  
18431 JAMES COUZENS DETROIT, MI 48235



RETAINING WALLS - S. APPROACH - WEST WALL



RETAINING WALLS - S. APPROACH - EAST WALL



RETAINING WALLS - S. APPROACH - MEDIAN WALL

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

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

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

DESIGNED BY	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET NO.	19	OF 57

B01 of 82-22-48

NO.	DESCRIPTION	DATE	BY