

# CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS

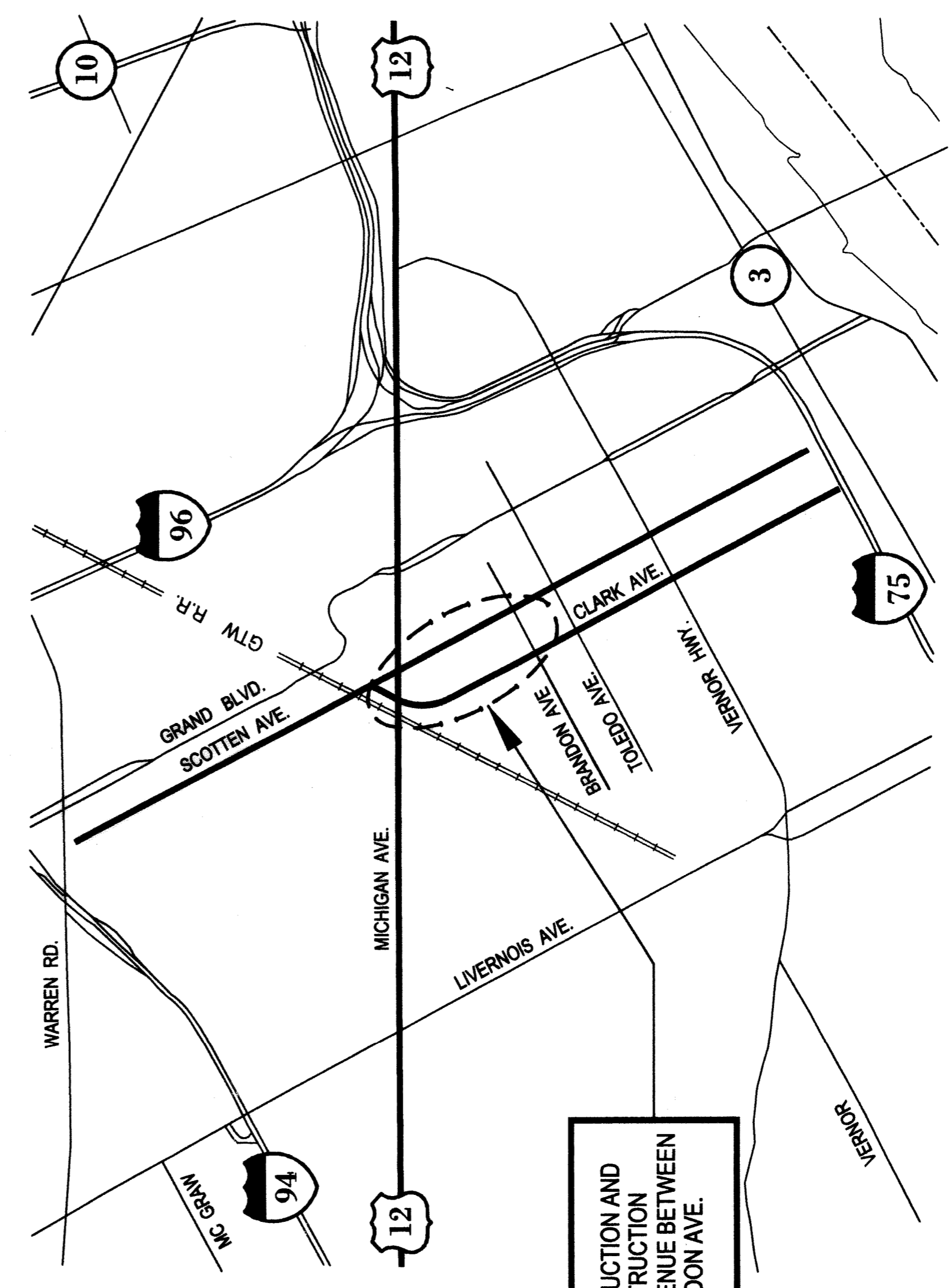
## IN CO-OPERATION WITH MICHIGAN DEPARTMENT OF TRANSPORTATION

ECONOMIC DEVELOPMENT - CATEGORY A

Control Section      EDA82522  
Job Number            52624A

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STANDARD PLANS	
1 OF 5	DETAILS OF STANDARD CATCH BASINS 'A' & 'B' FLAT GRATE & FRAME AND COVER BOLT
2 & 3 OF 5	SPECIAL DETAILS
4 OF 5	MISCELLANEOUS DETAILS
5 OF 5	SPECIAL STANDARDS & SPECIAL DETAILS



DETROIT



DESIGN SPEED	CLARK	SCOTTEN
	35	35
POSTED SPEED	25	25

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 1986 STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS

DRAWN:	ELC	DATE:	07/28/00
CHECKED:	ARB	FILE NO.:	
APPROVED:	ARB	DRAWING NO.:	1 OF 44

CONTRACT FOR: RESURFACING, RECONSTRUCTION AND MISCELLANEOUS CONSTRUCTION OF CLARK AND SCOTTEN AVENUE BETWEEN MICHIGAN AVE. & BRANDON AVE.

LOCAL AUTHORITY APPROVAL  
CITY OF DETROIT  
CITY ENGINEERING DIVISION  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:	<i>Rodriguez</i>	DATE:	08/23/00
APPROVED BY:	<i>[Signature]</i>	DATE:	08/23/00
APPROVED BY:	<i>[Signature]</i>	DATE:	08/23/00

PREPARED UNDER SUPERVISION OF

*[Signature]*  
REGISTERED PROFESSIONAL ENGINEER

SMITHGROUP JIR  
ANN ARBOR, MICHIGAN

24685  
REGISTRATION

(SEAL)

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 C1	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	5440013	SEWER-CLEAN-OUT	2,150	LFT
01	5440014	CLEANING-BRIDGE 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  
**WTA**  
 BAKER AND ASSOCIATES  
 WALTER TEAMER AND ASSOCIATES, INC.  
 A JOINT ASSOCIATION  
 1843 JAMES COLUZENS 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	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 ON THE JOB TRAINING	1,750	LFT
01	6920002	REMOVAL OF PORTIONS OF STRUCTURES	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 355-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	10	EACH
02	5030151	DRAIN CASTING ASSEMBLY - TYPE 2	9	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

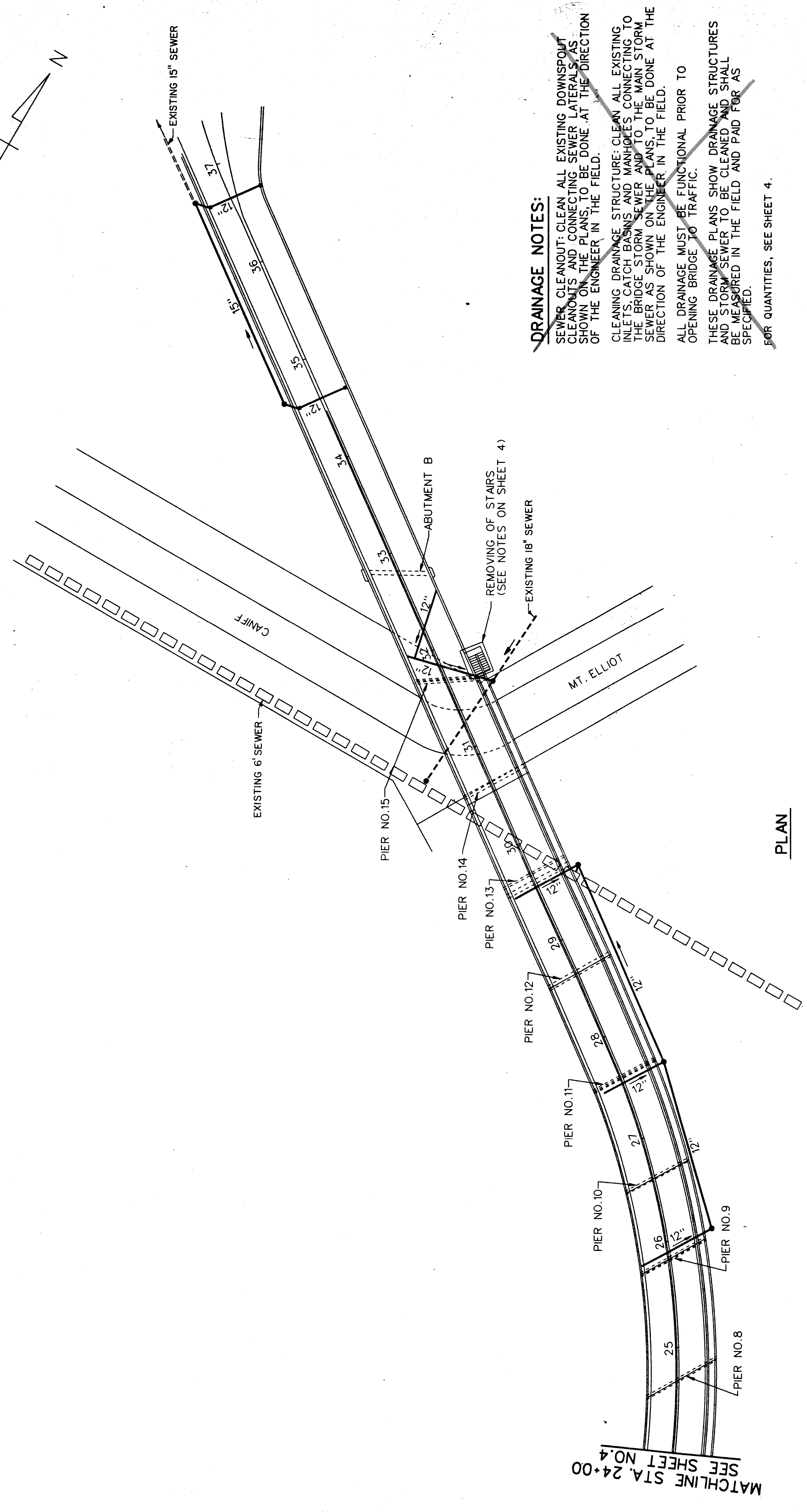
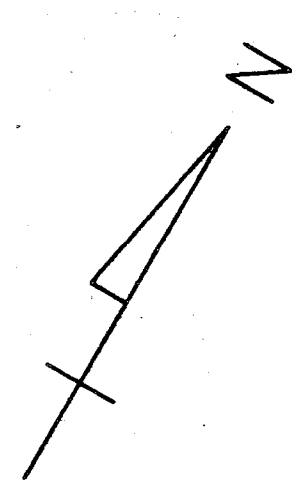
SUMMARY OF QUANTITIES

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 FORMING FOR PATCHES	100	CFT
02	5090017	EPOXY ANCHORING OF VERTICAL BAR, 1/2"	300	SFT
02	5090030	EPOXY ANCHORING OF VERTICAL BAR, 5/8"	23	EACH
02	5090031	FALSE DECKING	74	EACH
02	5090075	HYDRODEMOLISHING-FIRST PASS	5,130	SYD
02	5090076	HYDRODEMOLISHING-SECOND PASS	10,466	SYD
02	5090077	REPAIRING STRUCTURAL CRACKS	485	SYD
02	5090099	STRUCTURAL STEEL, FURNISHING AND FABRICATING (PIN & HANGER)	150	LFT
02	5100001	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

DESIGNED BY	DATE	SCALE
DRAWN BY	DATE	SCALE
CHECKED BY	DATE	SCALE
SHEET	OF	
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.

PLAN

MATCHLINE STA. 24+00  
SEE SHEET NO. 4

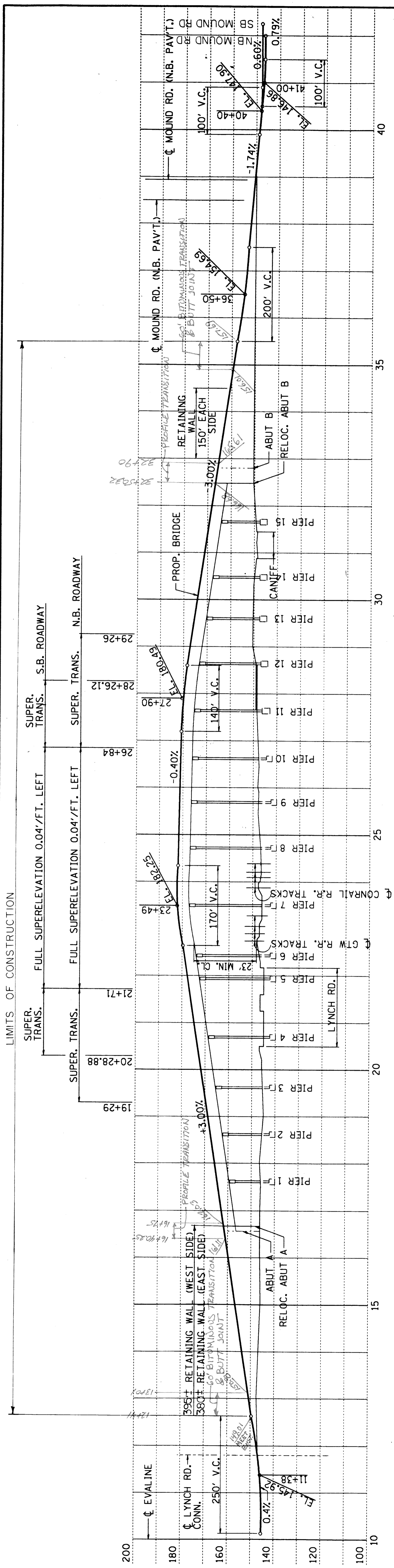
THE CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
DRAINAGE PLAN

DESIGNED BY	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	NO.	OF
	5	57

B01 of 82-22-48

NO.	DESCRIPTION	REVISIONS	DATE	BY

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



PROPOSED PROFILE ALONG MOUNT ELLOITT - MOUND ROAD  
GRADE SEPARATION

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

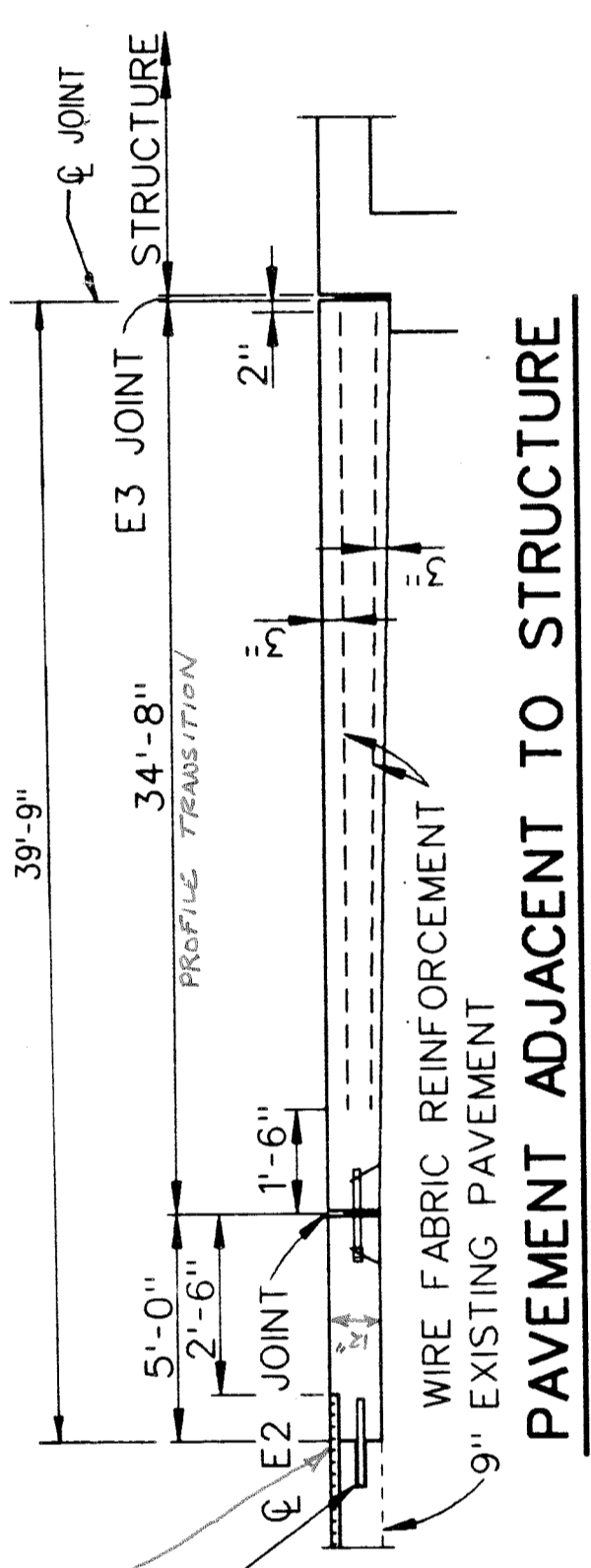
**Baker** BAKER AND ASSOCIATES  
**WTA** WALTER TEAMER AND ASSOCIATES, INC.  
A JOINT ASSOCIATION  
18431 JAMES COUZENS DETROIT, MI 48235

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

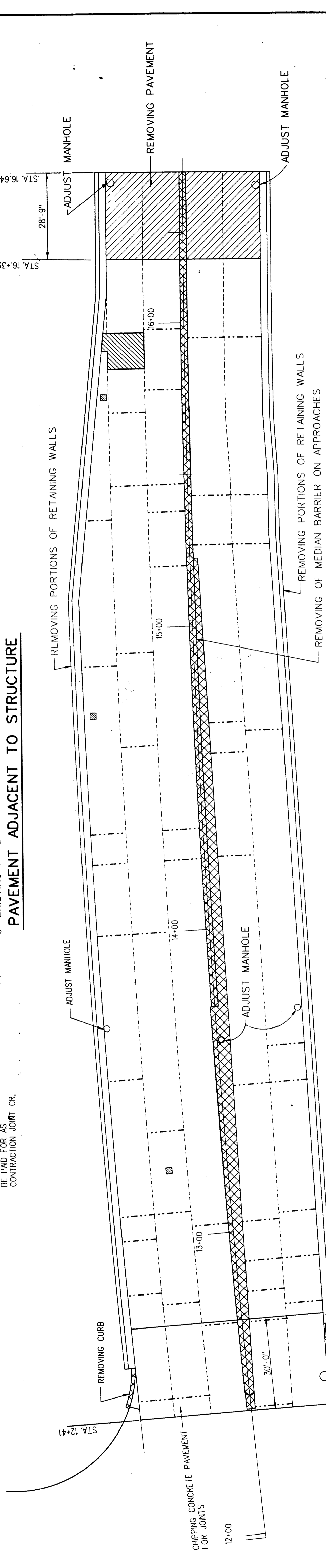
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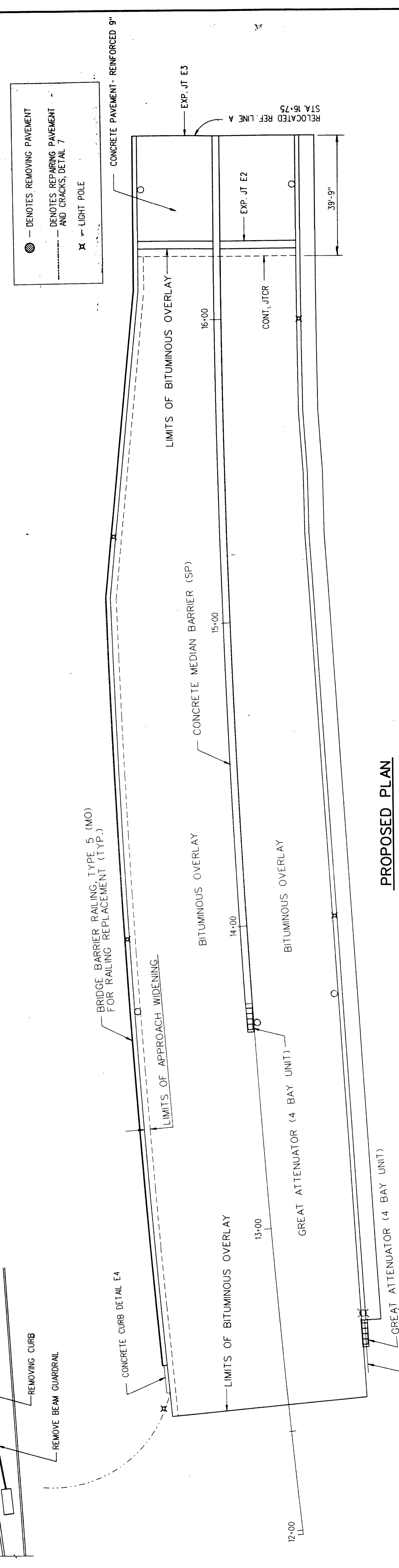
B01 of 82-22-48



**EXISTING PLAN**



**PROPOSED PLAN**



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

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

NO.	DESCRIPTION	DATE	BY

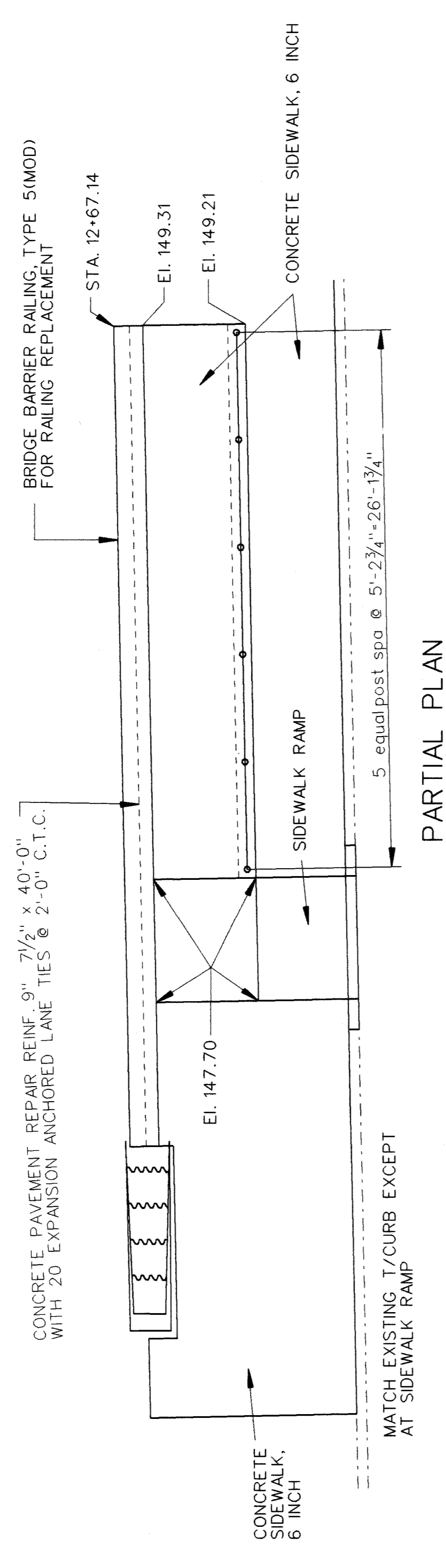
NOTE: WORK THIS SHEET WITH SHEETS 17 TO 21.

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 18431 JAMES COUZENS DETROIT, MI 48235

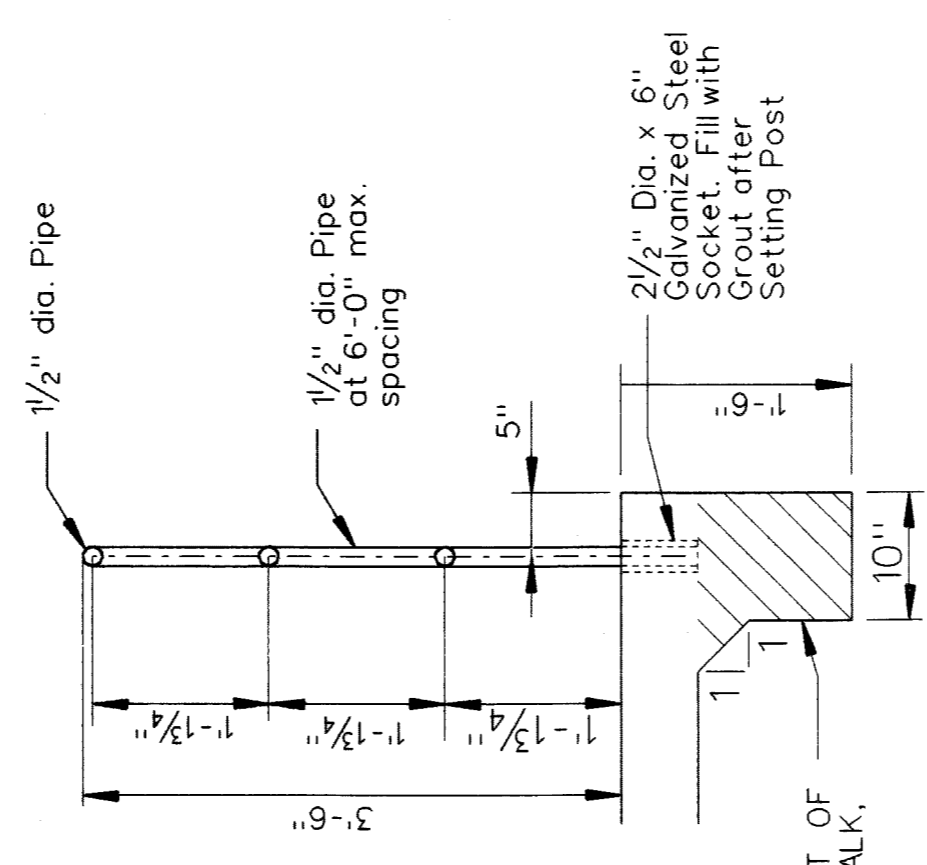
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DATE	BY

SHEET 16 OF 57  
 B01 of 82-22-48



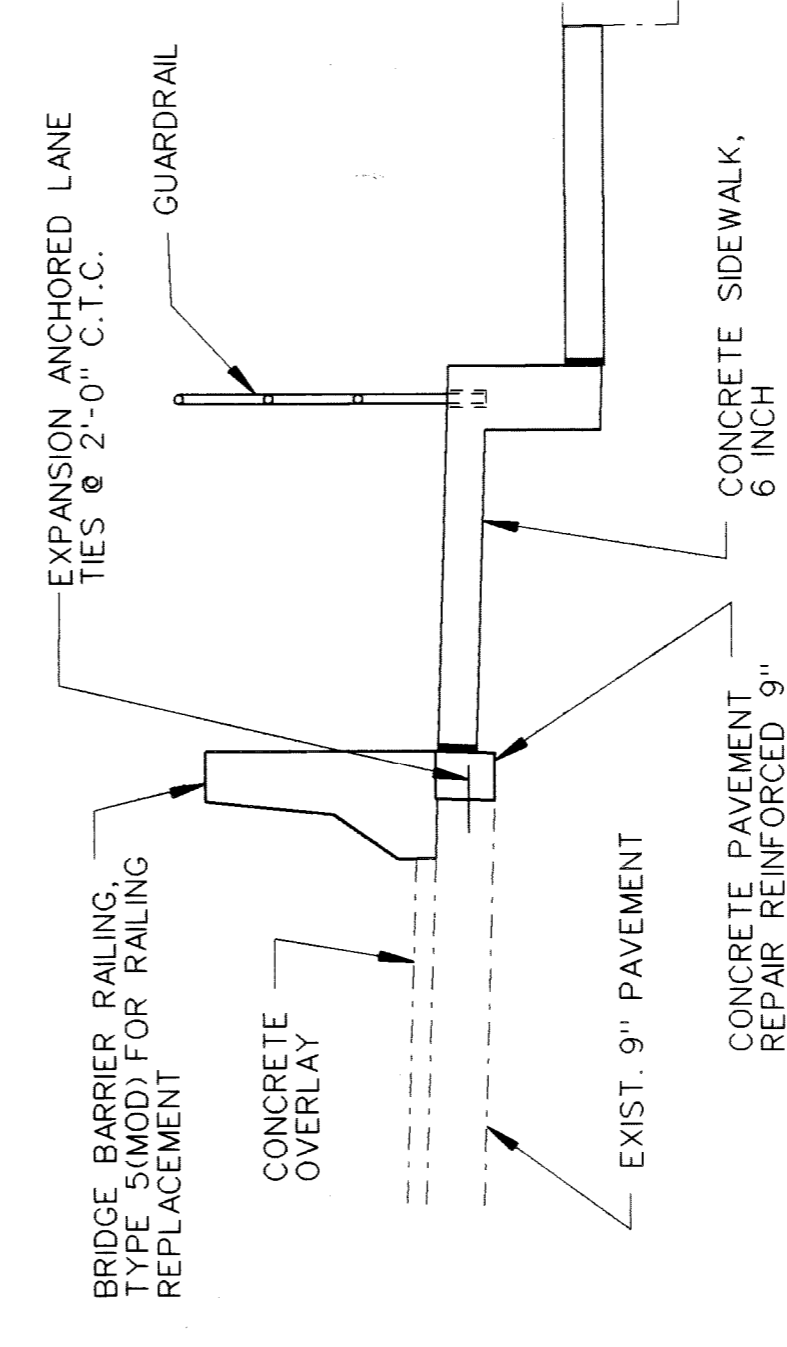
PARTIAL PLAN



GUARDRAIL DETAIL

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

SECTION A-A



**NOTES:**  
 PIPE RAILING, GALVANIZED WILL BE MEASURED BY LENGTH IN LINEAR FEET OF TOP RAIL, FOR EACH RAILING REQUIRED, BASED ON THE DIMENSIONS SHOWN IN THE QUANTITIES AND AS DIRECTED BY THE CITY OF DETROIT. THE CONTRACT PRICE SHALL INCLUDE FURNISHING, FABRICATING, GALVANIZING, INSTALLING, AND GROUTING THE RAILING.  
 SIDEWALK RAMP WILL BE MEASURED IN PLACE BY AREA IN SQUARE FEET AND INCLUDES THE MONOLITHIC CURB.  
 REMOVING CURB WILL BE PAID FOR SEPARATELY.  
 THE CONCRETE SIDEWALK SHALL BE CONSTRUCTED AS NOTED IN THESE PLANS AND AS PER MDOT SPECIFICATION 6.11.  
 THE SIDEWALK SHALL BE THICKENED AS SHOWN IN SECTION A-A AND SHALL BE INCLUDED IN THE COST OF CONCRETE SIDEWALK, 6 INCH.  
 GRANULAR MATERIAL CLASS I SHALL BE USED FOR STRUCTURE BACKFILL (CIP)  
 WORK THIS SHEET WITH SHEET 18 & 48A.

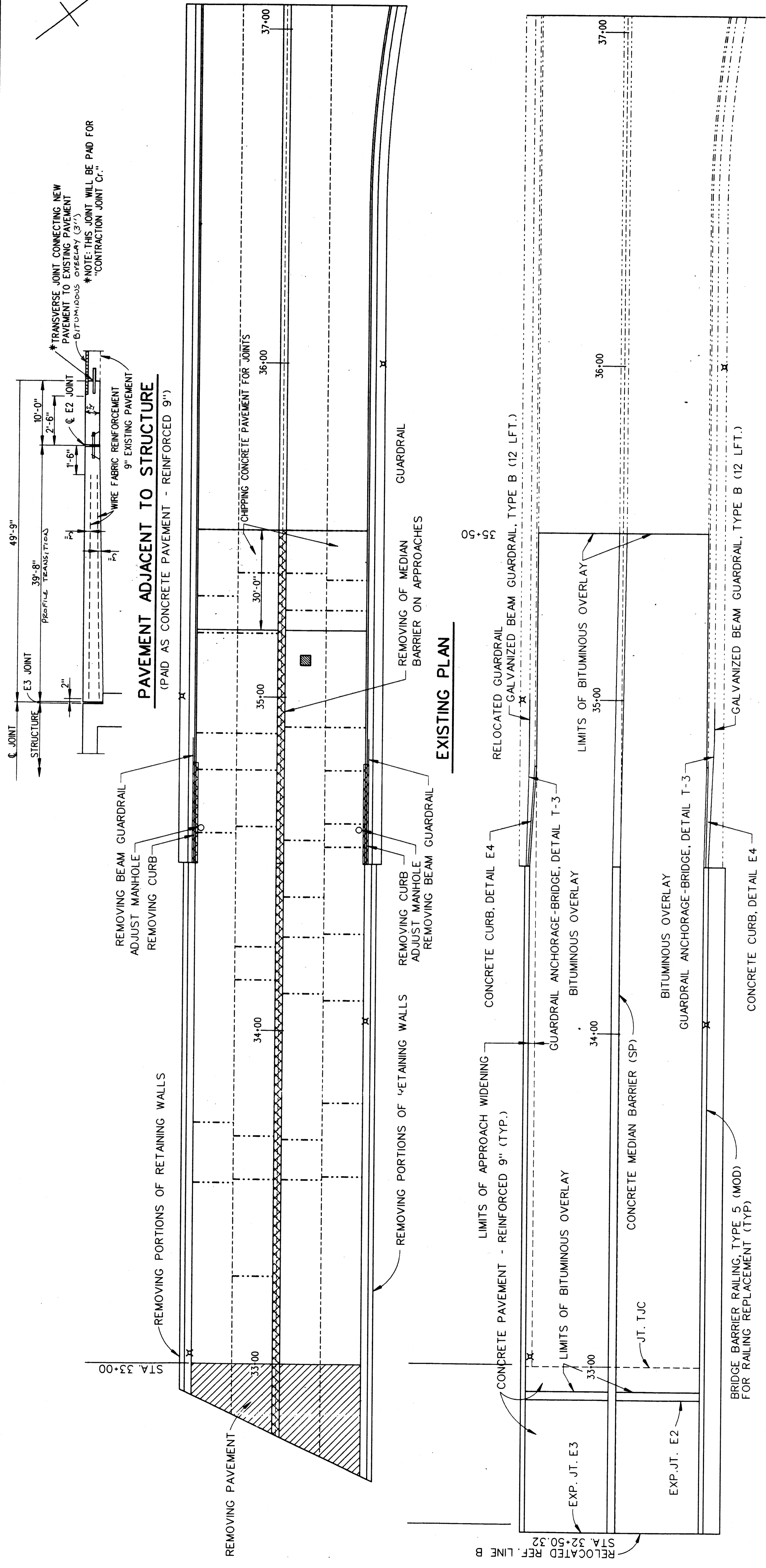
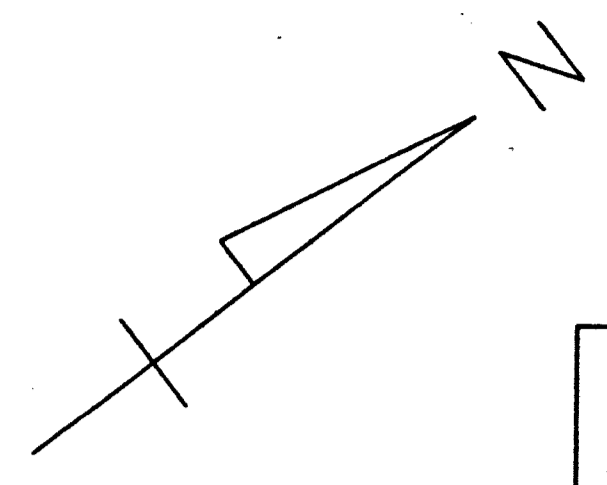
**SIDEWALK JOINTS:**  
 ALL CUT TRANSVERSE JOINTS SHALL BE CONSTRUCTED AT 5 FOOT INTERVALS BETWEEN EXPANSION JOINTS.  
 1/2" EXPANSION FILLER SHALL BE PLACED BETWEEN THE SIDEWALK AND THE PAVEMENT WIDENING.  
 SEE MDOT STANDARD II-28G (TYPE 1) FOR SIDEWALK RAMP DETAILS.  
 SEE MDOT STANDARD II-29E FOR DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS.

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

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	NEW DRAWING	10/7/95	RAL

SOUND BOSS	
DRAWN BY	DATE
NAME	10/7/95
CHECKED BY	DATE
NAME	10/7/95
16A OF 57	SHEET

B01 of 82-22-48



**PAVEMENT ADJACENT TO STRUCTURE**  
 (PAID AS CONCRETE PAVEMENT - REINFORCED 9")

**EXISTING PLAN**

**PROPOSED PLAN**

**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

**LEGEND**

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

**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.

NOTE: WORK THIS SHEET WITH SHEETS 20 AND 21.

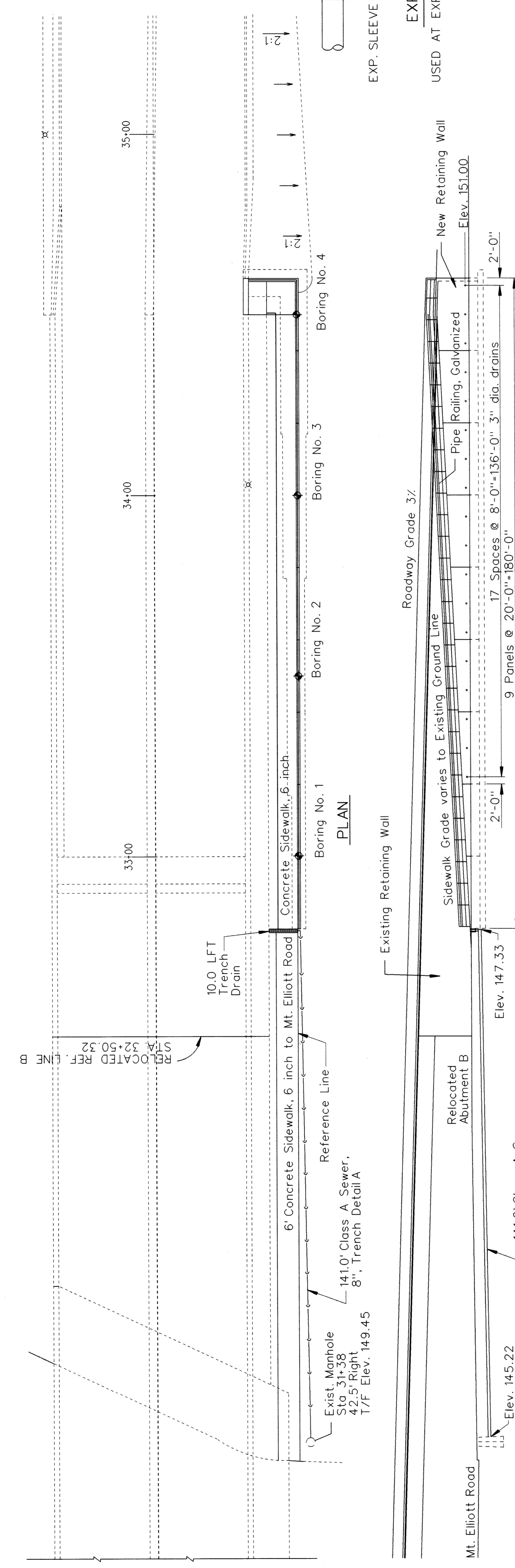
**CITY OF DETROIT**  
 DEPARTMENT OF PUBLIC WORKS  
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
 GENERAL PLAN NORTH APPROACH

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SHEET	17	OF 57

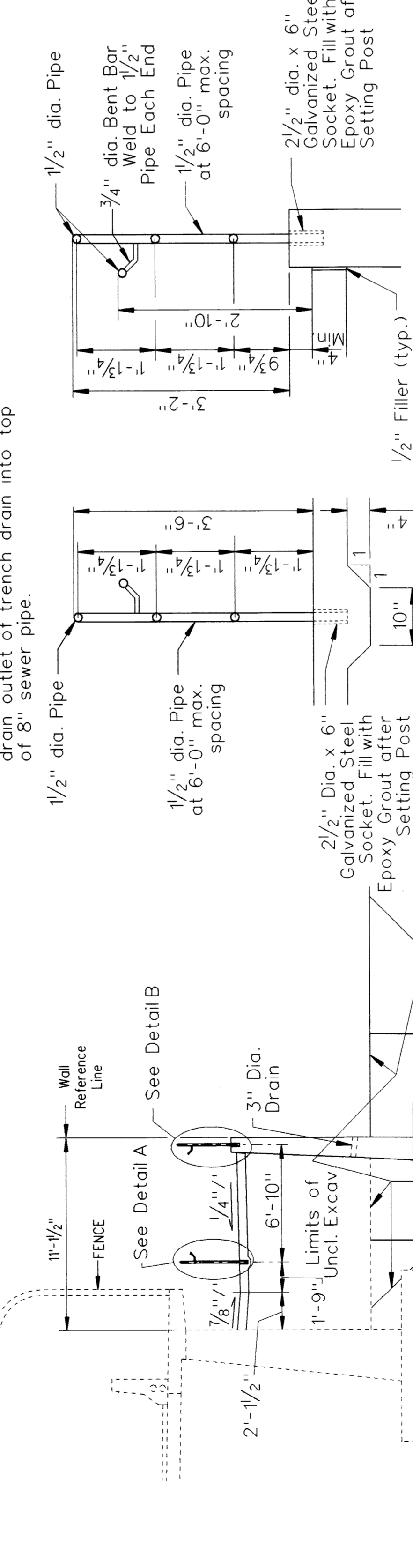
**B01 of 82-22-48**

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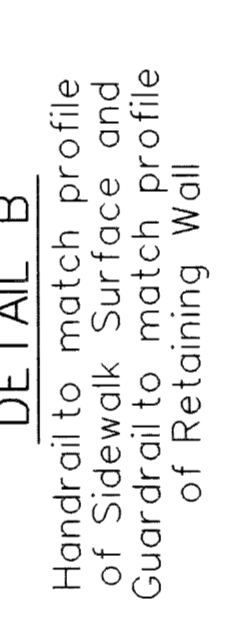
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**ELEVATION**



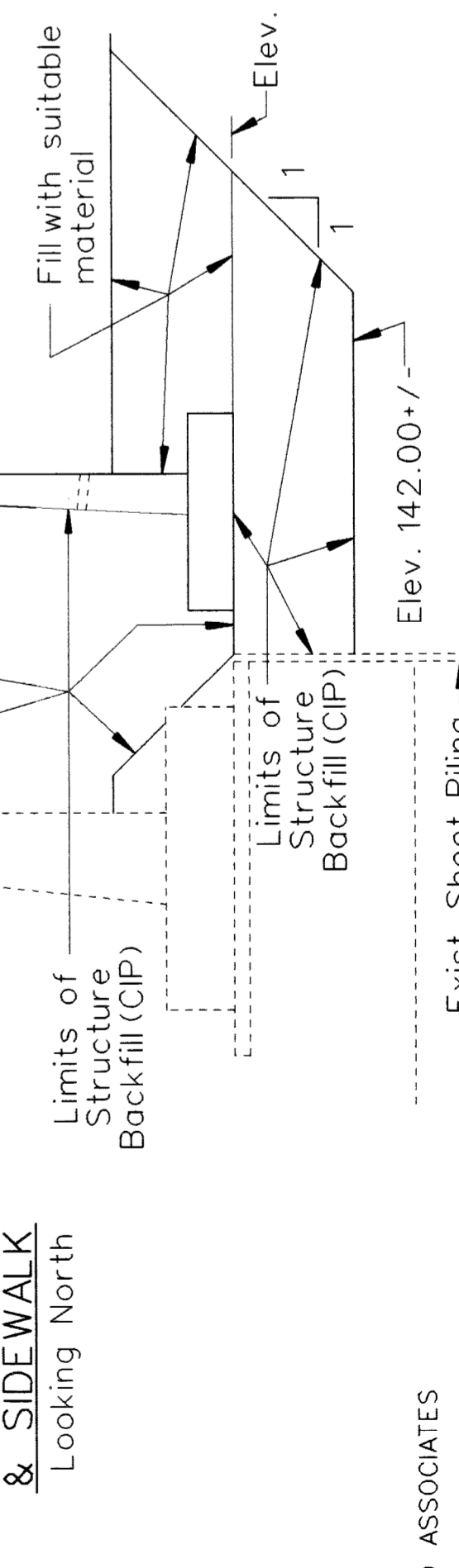
**HANDRAIL/GUARDRAIL DETAIL B**



**HANDRAIL/GUARDRAIL DETAIL A**



**SECTION THRU RETAINING WALL & SIDEWALK**  
Looking North



**SECTION SHOWING STRUCTURE BACKFILL**  
Looking North



**SIDEWALK JOINTS:**

TRANSVERSE EXPANSION JOINTS (WITH 1/2" FILLER) SHALL BE CONSTRUCTED AT THE SAME LOCATION AS THE EXPANSION JOINTS IN THE NEW RETAINING WALL.

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

TRANSVERSE EXPANSION JOINTS IN THE 6 FOOT WIDE SIDEWALK SHALL BE CONSTRUCTED AT MAXIMUM 50 FOOT CENTERS.

1/2" EXPANSION FILLER SHALL BE PLACED BETWEEN THE SIDEWALK AND THE NEW RETAINING WALL, AND PLACED BETWEEN THE SIDEWALK AND THE EXISTING RETAINING WALL.

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

**NOTES:**

FOR RETAINING WALL QUANTITIES, SEE SHEETS 21A, AND 21B.

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

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

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

THE 3 INCH DIA. DRAINS LOCATED IN THE RETAINING WALL WILL HAVE A 2 FOOT CUBED VOLUME OF GRAVEL OR CRUSHED STONE. THE BOTTOM OF THE DEPOSIT SHALL BE 2 INCHES BELOW THE DRAIN HOLE. INCLUDED IN COST OF STRUCTURE BACKFILL (CIP).

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

EPOXY GROUT SHALL BE AS SPECIFIED IN MDOT STANDARD SPECIFICATION 8.16.06b.

TRENCH DRAIN SHALL HAVE A BOLTED DOWN CAST IRON GRATE AND A 6" DIA. BOTTOM OUTLET.

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

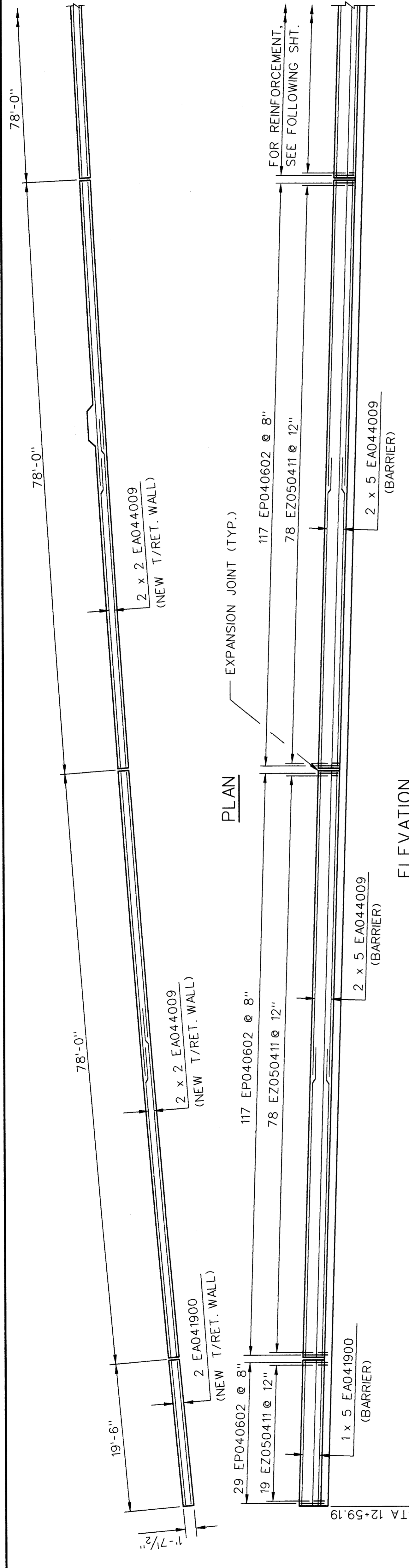
DESIGNED BY	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	7A OF 57	

B01 of 82-22-48

NO.	DESCRIPTION	DATE	BY
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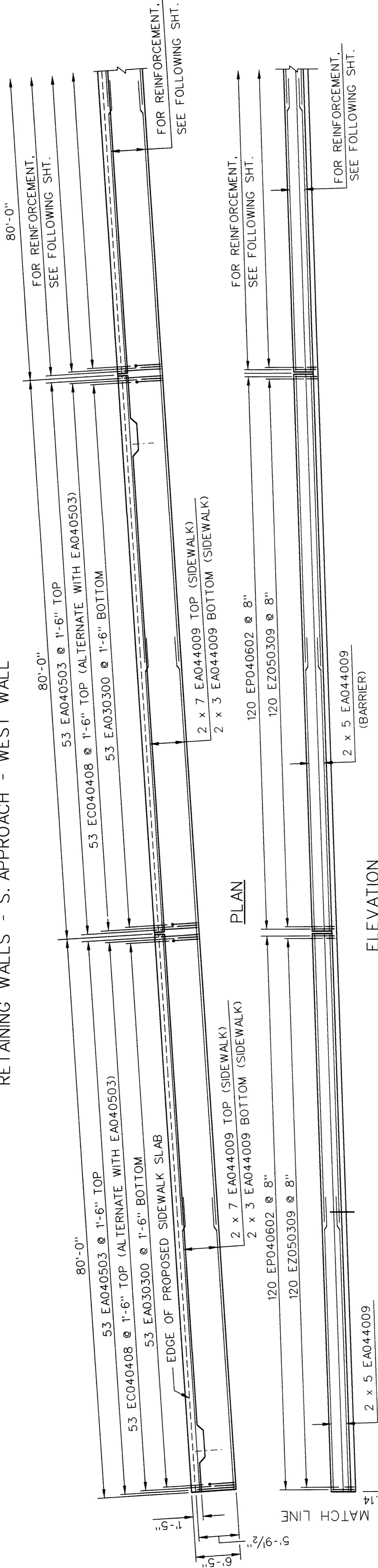
**SIDEWALK PROFILE**  
@ Reference Line





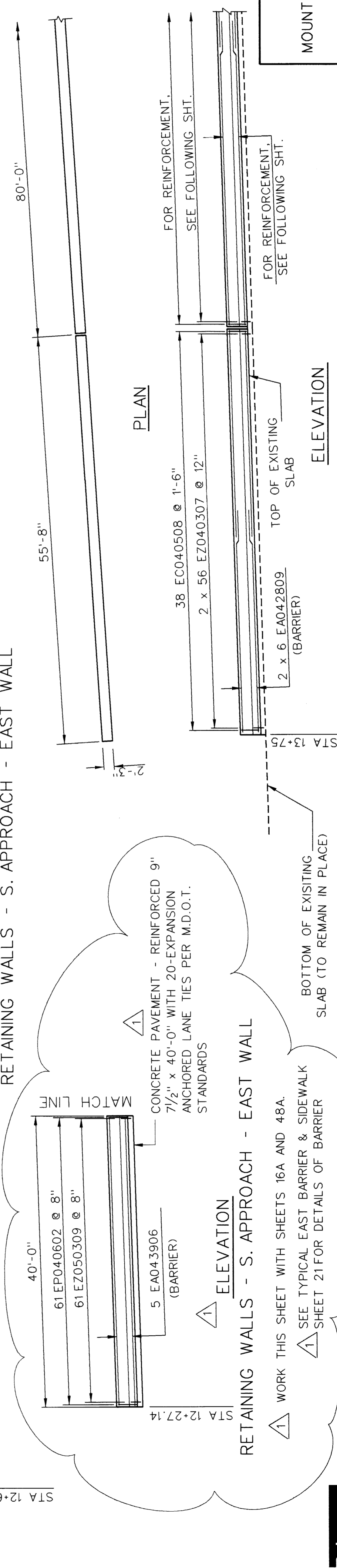
**RETAINING WALLS - S. APPROACH - WEST WALL**

**ELEVATION**



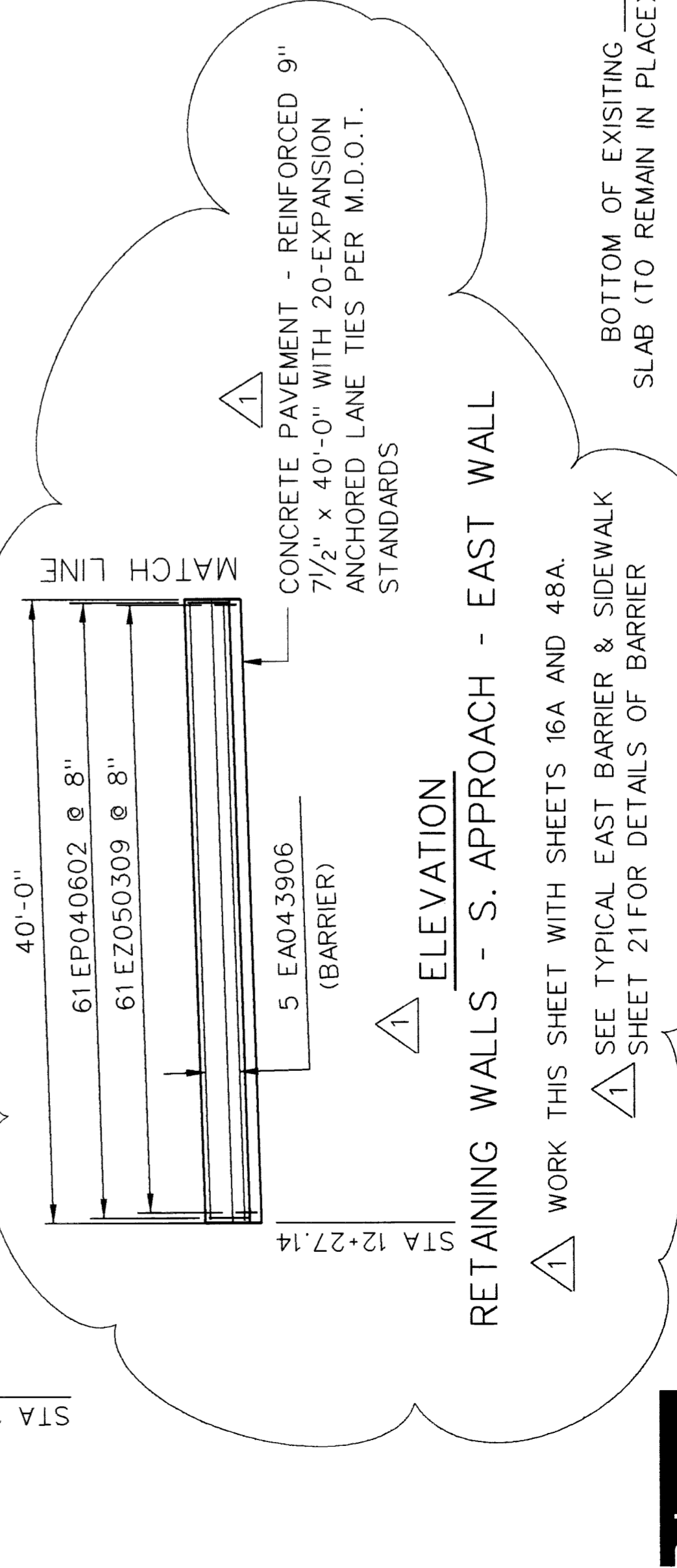
**RETAINING WALLS - S. APPROACH - EAST WALL**

**ELEVATION**



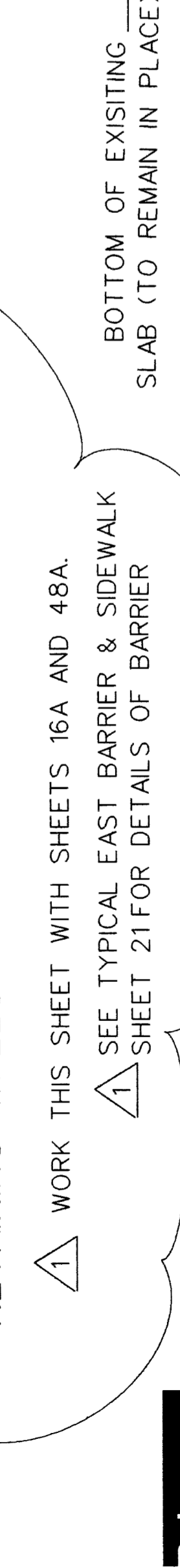
**RETAINING WALLS - S. APPROACH - EAST WALL**

**ELEVATION**



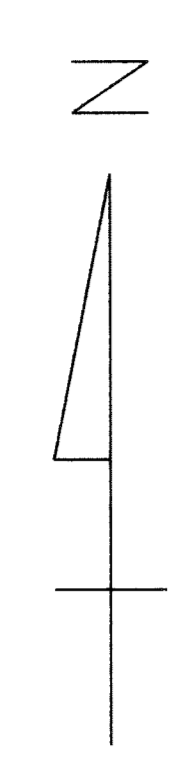
**RETAINING WALLS - S. APPROACH - EAST WALL**

**ELEVATION**



**RETAINING WALLS - S. APPROACH - MEDIAN WALL**

**ELEVATION**



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

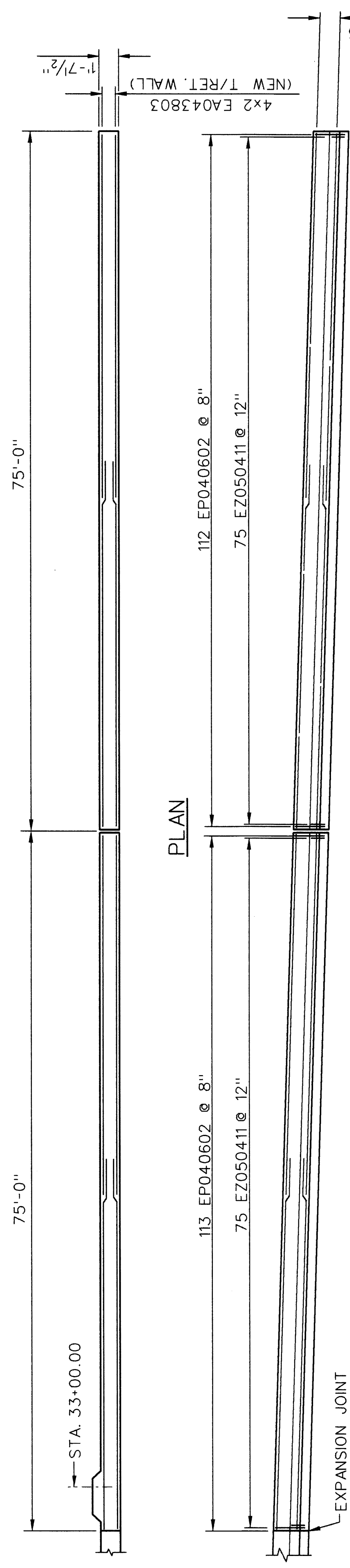
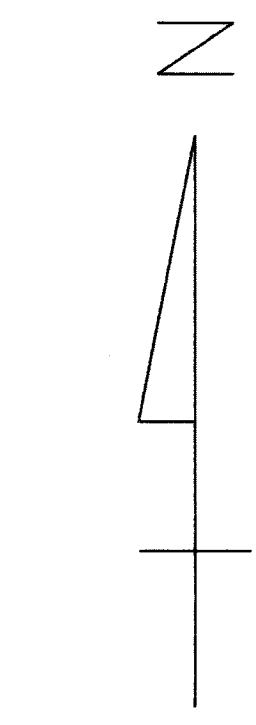
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
RETAINING WALLS  
STA. 12+59 TO 16+51

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

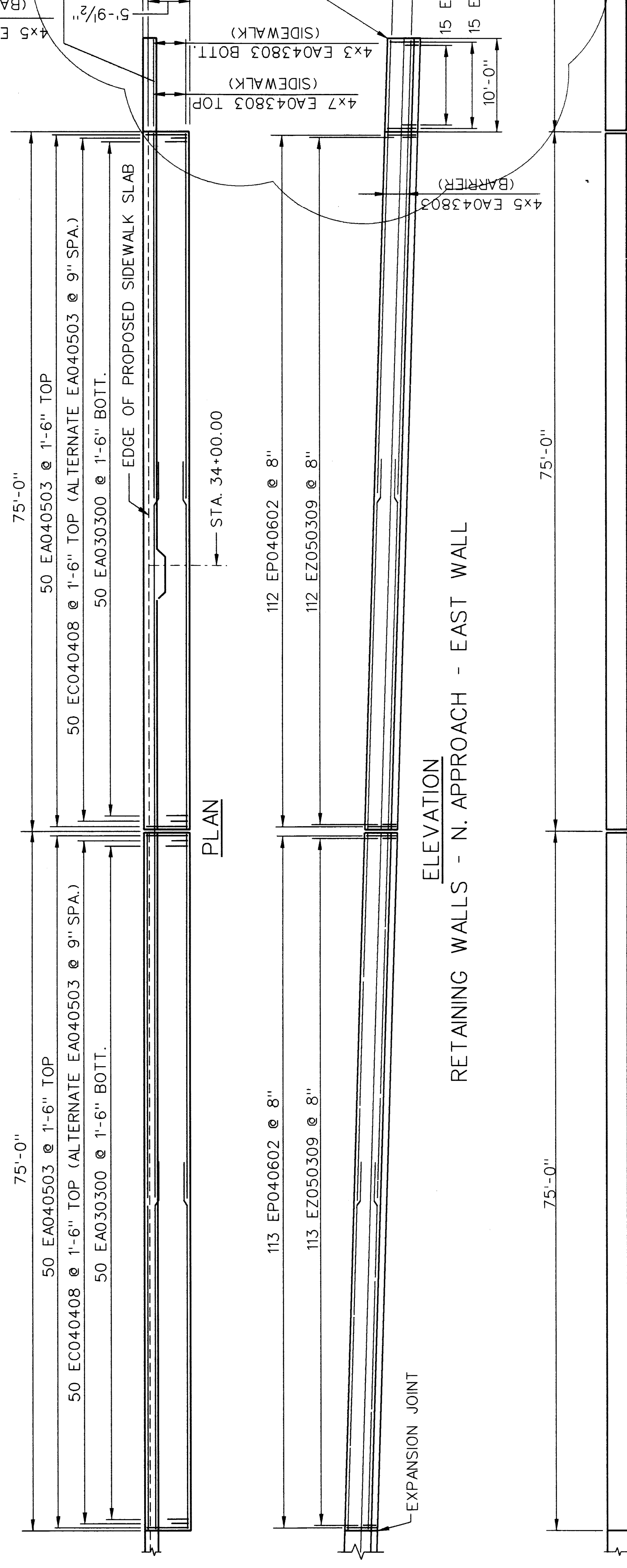
SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	NO.	OF

B01 of 82-22-48

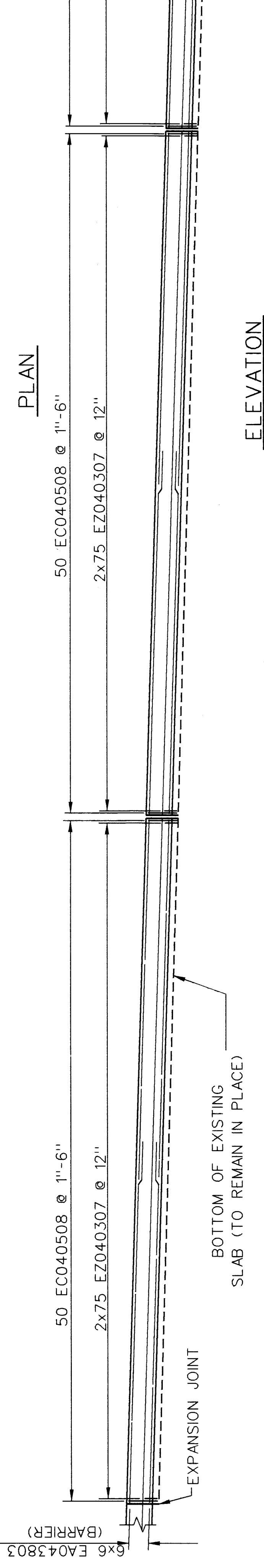
**Baker**  
**WMA**  
WALTER TEAMER AND ASSOCIATES, INC.  
A JOINT ASSOCIATION  
18431 JAMES COUZENS DETROIT, MI 48235



**RETAINING WALLS - N. APPROACH - WEST WALL**



**RETAINING WALLS - N. APPROACH - EAST WALL**



**RETAINING WALLS - N. APPROACH - MEDIAN WALL**

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

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

DATE	BY
11/93	RAL
1/94	RAL
20 OF 57	

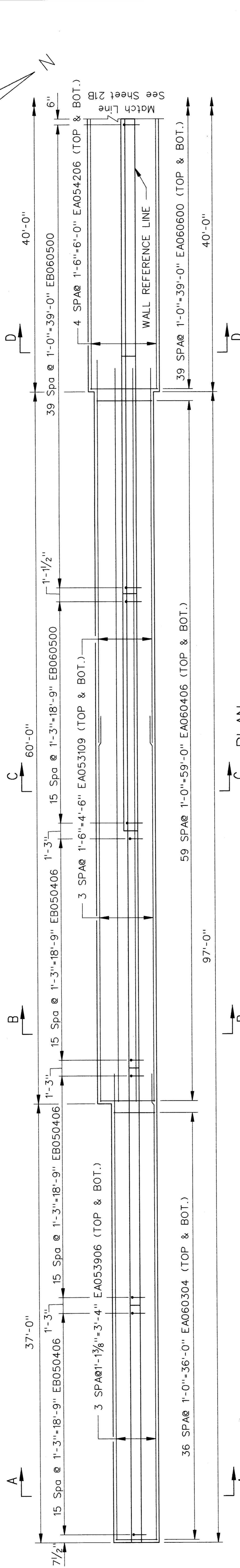
B01 of 82-22-48

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

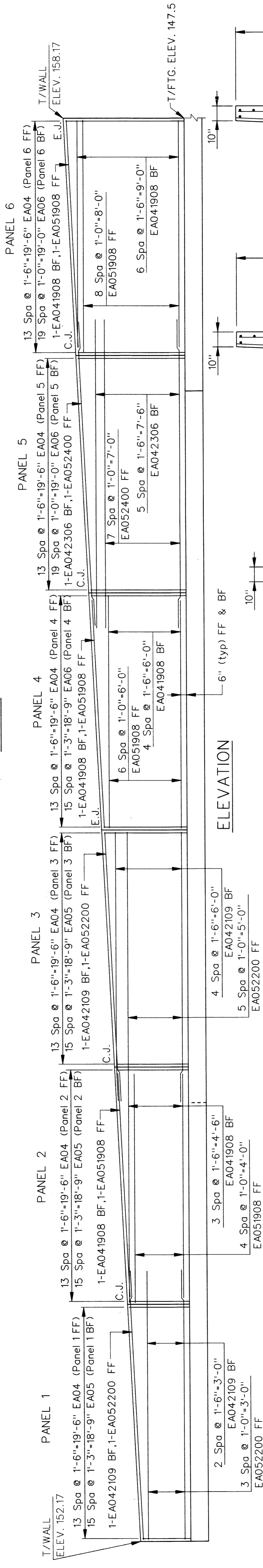
NOTES:  
 WORK THIS SHEET WITH SHEETS 21 AND 48.  
 WORK THIS SHEET WITH SHEETS 17A, 21B & 48A.

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

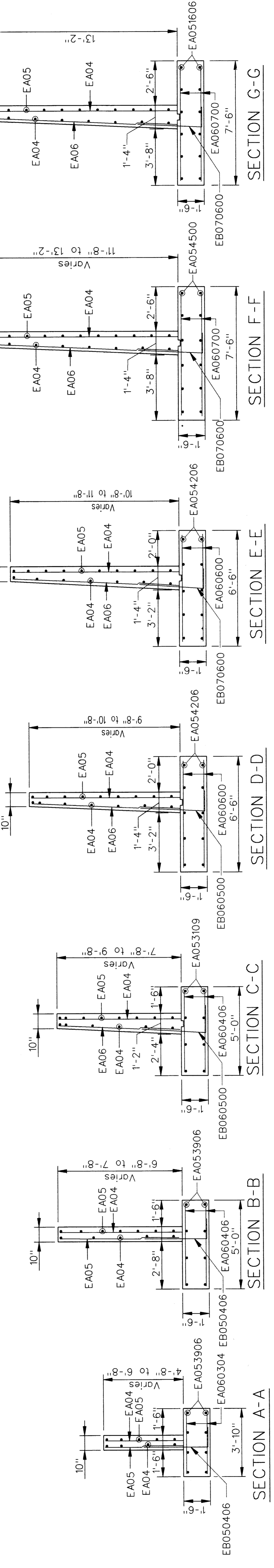




PLAN



ELEVATION



**BAKER AND ASSOCIATES**  
 18431 JAMES COUZENS DETROIT, MI 48235

**CITY OF DETROIT**  
 DEPARTMENT OF PUBLIC WORKS  
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
 NORTH SIDEWALK RETAINING WALL 1

DESIGNED BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	Z/A OF	37

**B01 of 82-22-48**

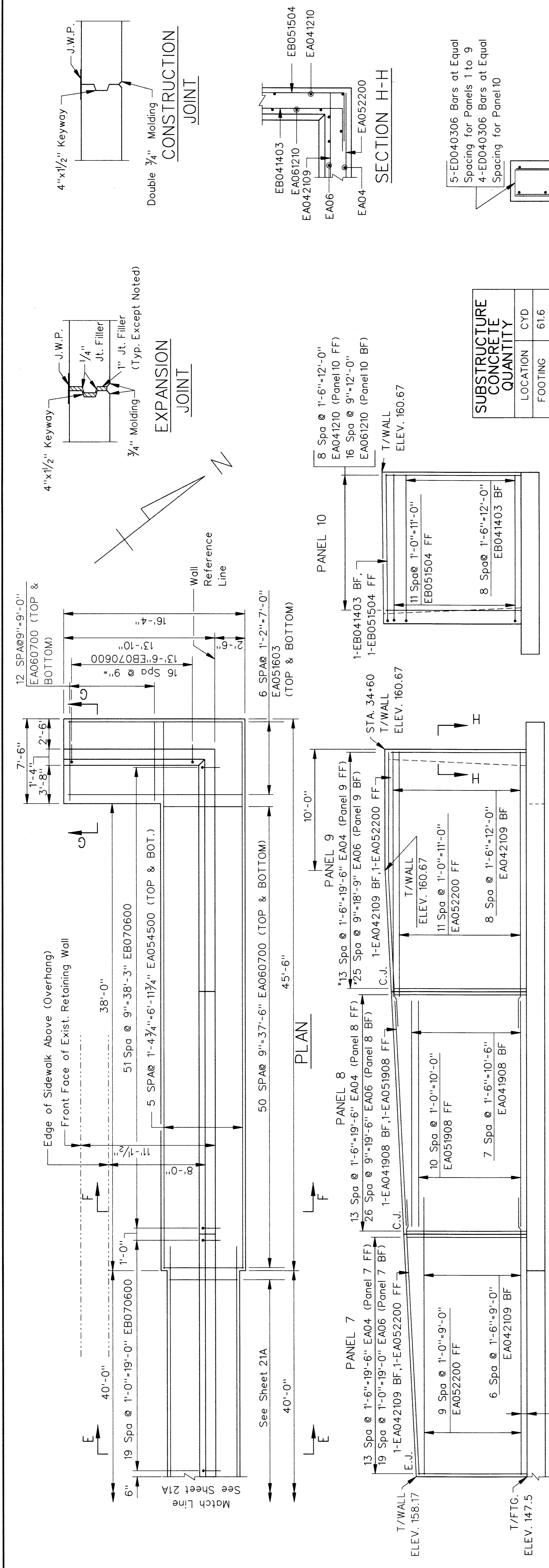
NO.	DESCRIPTION	REVISIONS	DATE	BY
1	NEW DRAWING		10/95	RAL

**NOTES:**

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

**NOTES:**

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



ELEVATION

ELEVATION

\* QUANTITIES SHOWN AT TOP OF WALL  
 INCLUDES 8-EA041210 BARS FF AND  
 12-EA061210 BARS BF

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

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

REBAR CUT LIST

CUTTING DIAGRAM

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

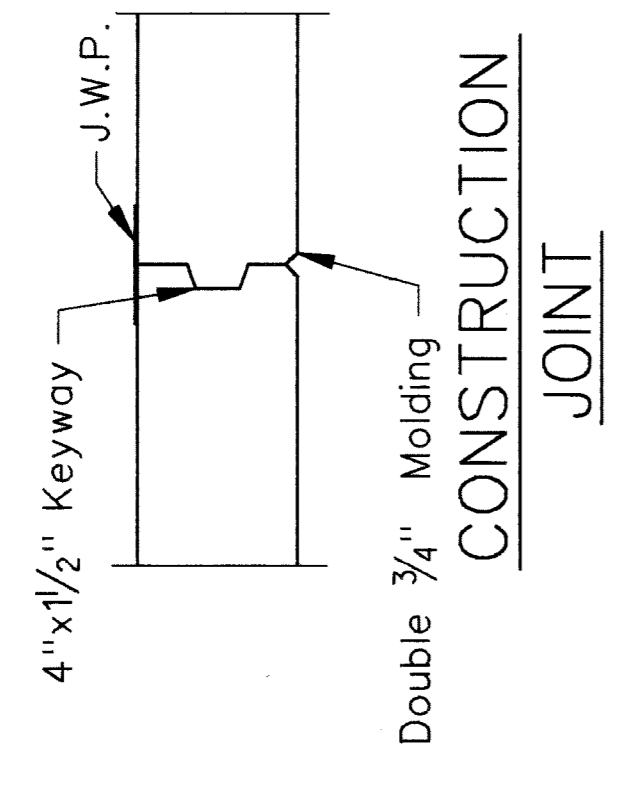
NOTES:

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

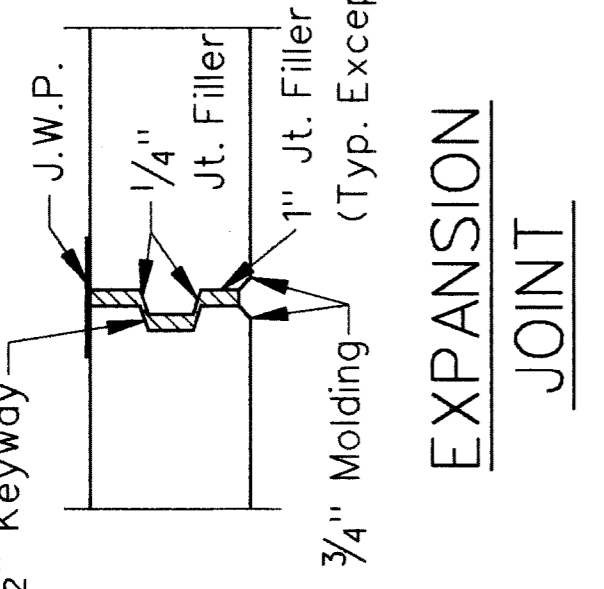
LOCATION	CYD
FOOTING	61.6
Panel 1	3.2
Panel 2	3.8
Panel 3	4.2
Panel 4	6.1
Panel 5	6.8
Panel 6	8.2
Panel 7	9.0
Panel 8	9.8
Panel 9	10.5
Panel 10	6.9
Total	130.3

SUBSTRUCTURE CONCRETE QUANTITY

TYPICAL TOP OF WALL DETAIL



CONSTRUCTION JOINT



EXPANSION JOINT

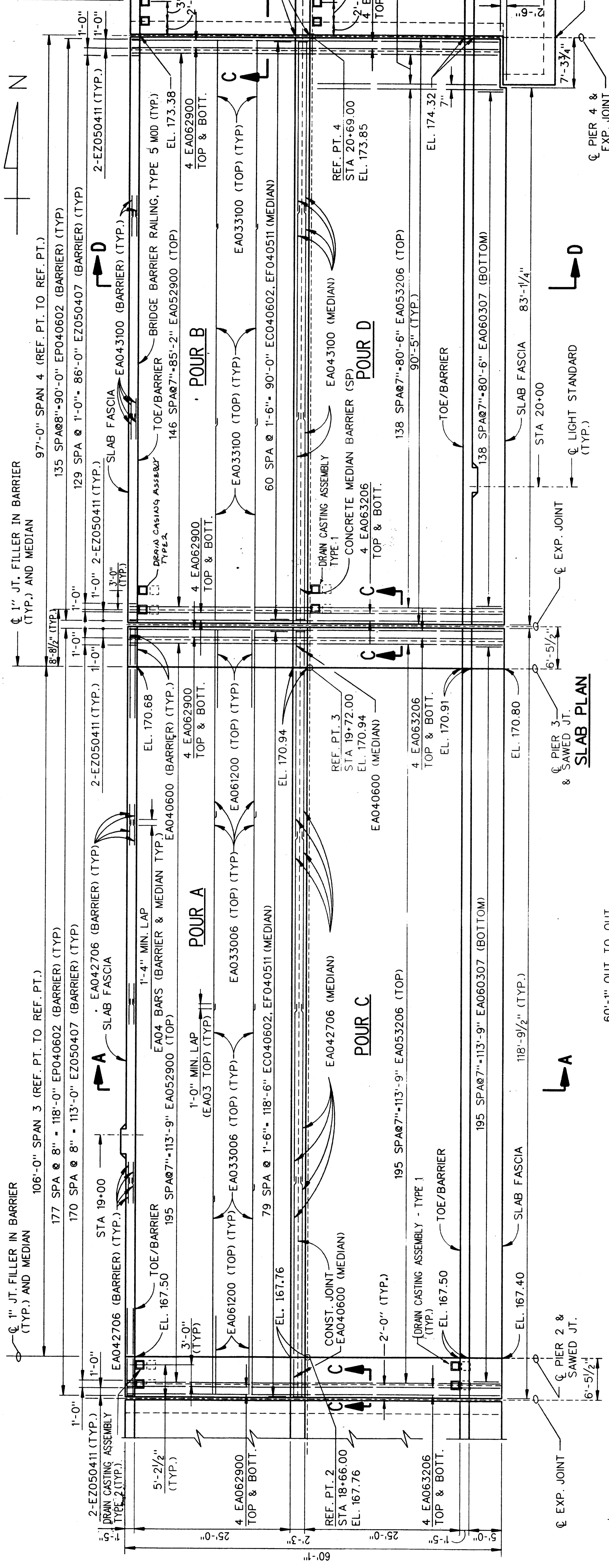
**CITY OF DETROIT**  
 DEPARTMENT OF PUBLIC WORKS  
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
 NORTH SIDEWALK RETAINING WALL 2

DESIGNED BY	NAME	RAJ	DATE	8/95
DRAWN BY	NAME	LAR	DATE	8/95
CHECKED BY	NAME	KR	DATE	10/95
SHEET	218	OF	57	

**B01 of 82-22-48**

**SUPERSTRUCTURE CONCRETE QUANTITIES**

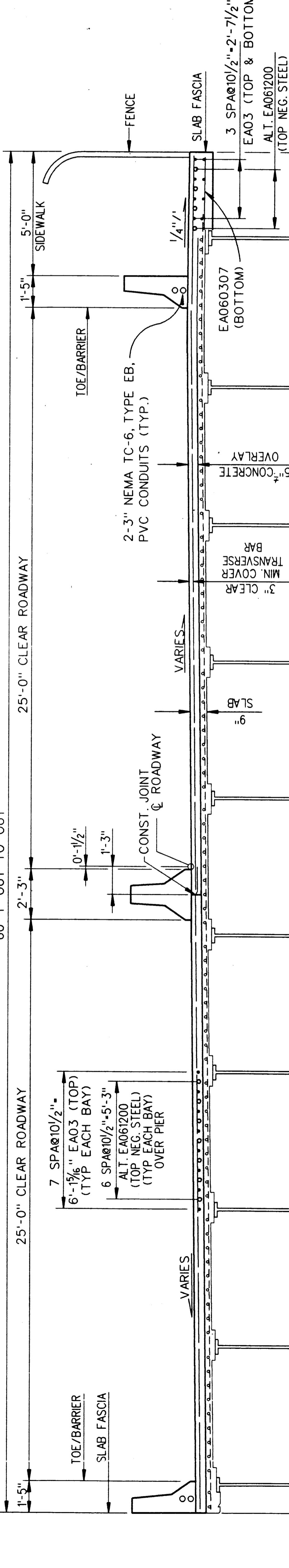
POUR	AMT (CYDS)
A	52.3
B	40.3
C	70.2
D	53.3
TOTAL CONC.: 216.1	



**MISCELLANEOUS QUANTITIES**

ITEM	UNIT	SPAN 3	SPAN 4	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD.) FOR RAILING REPLACEMENT	LFT	237.5	180.8	180.8
CONCRETE MEDIAN BARRIER (SP)	LFT	118.8	90.4	90.4
SCARIFYING	SYD	760.9	579.3	579.3
HYDRODEMOLISHING - FIRST PASS	SYD	760.9	579.3	579.3
HYDRODEMOLISHING - SECOND PASS	SYD	43.8	6.7	6.7
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	7	7	7
CONSTRUCTING BRIDGE DECK SURFACE	SYD	718.8	541.3	541.3
FALSE DECKING	SYD	0	250.0	250.0
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	7	7	7

**NOTE:**  
 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.



**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.

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

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

**REVISIONS**

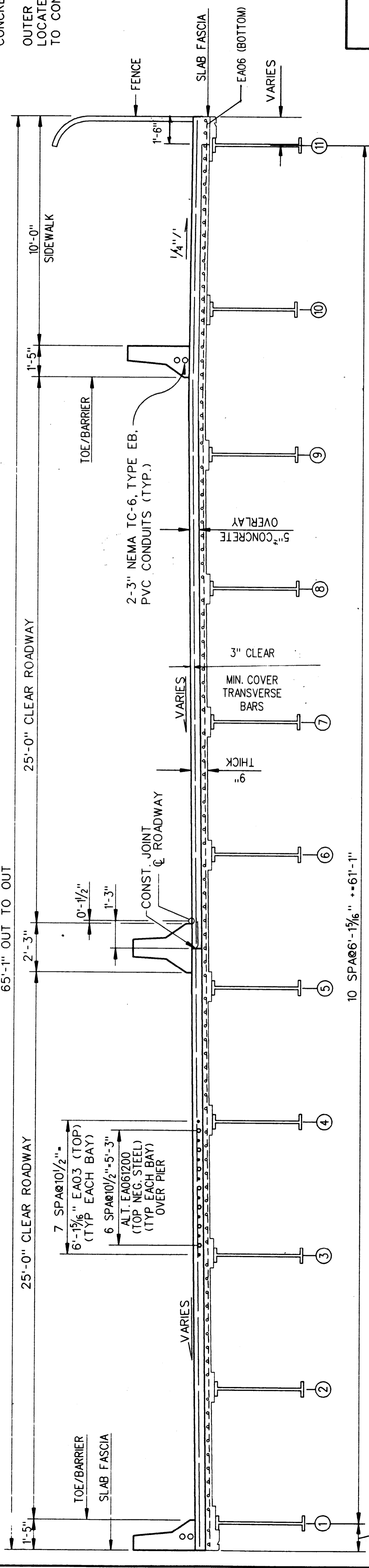
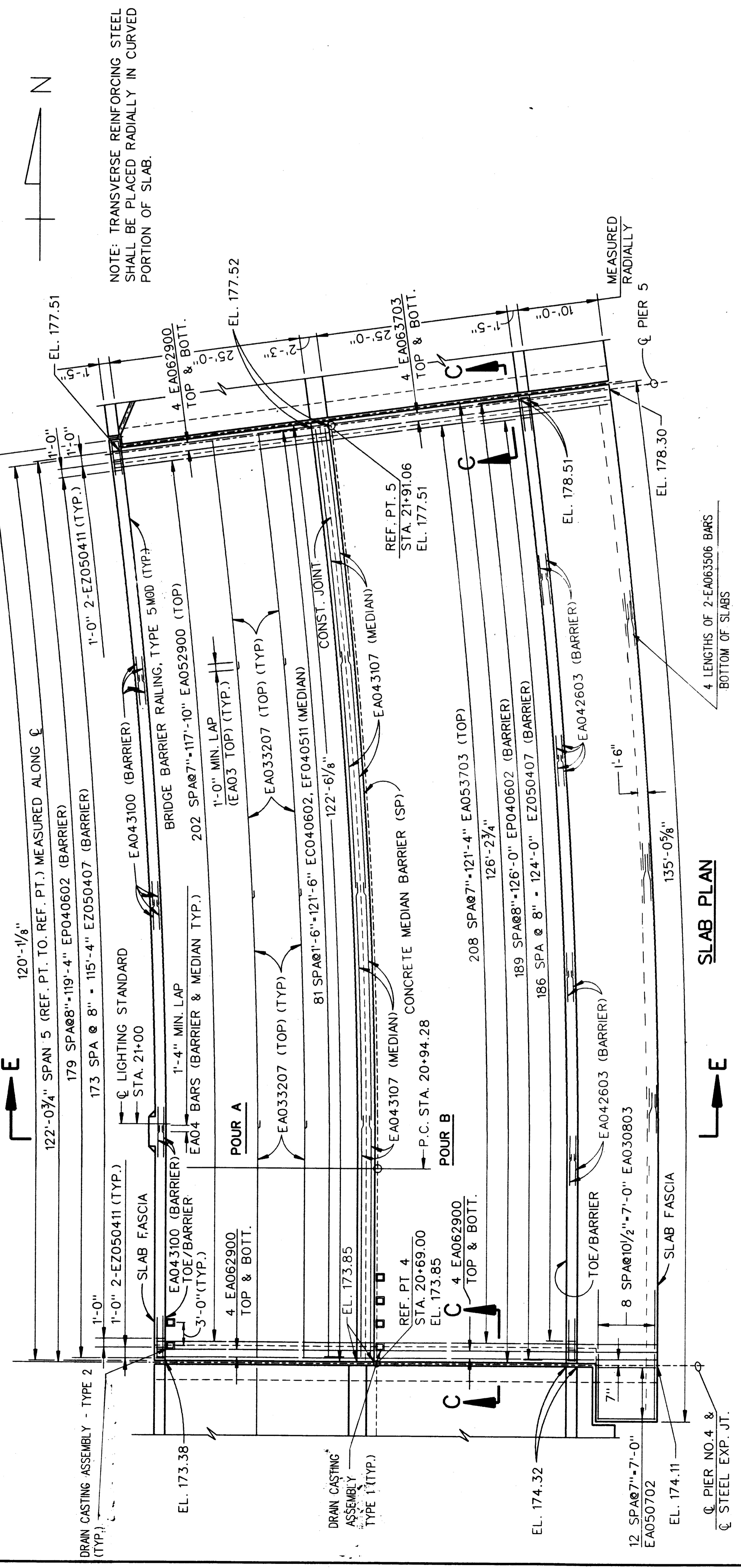
NO.	DATE	DESCRIPTION	BY	REVISION

**SCREENED ELEVATIONS**

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

**SCREED ELEVATIONS**

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



**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	5
CONSTRUCTING BRIDGE DECK SURFACE	SYD	862.6
FALSE DECKING	SYD	882.0
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	5

**SUPERSTRUCTURE CONCRETE QUANTITIES**

POUR	AMT (CYDS)
A	53.4
B	75.9
<b>TOTAL CONC.</b>	<b>129.3</b>

**NOTES:**

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

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

DESIGNED BY	DATE	1994
CHECKED BY	DATE	1994
DATE	35	OF 37

**B01 of 82-22-48**

**SCREED ELEVATIONS**

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

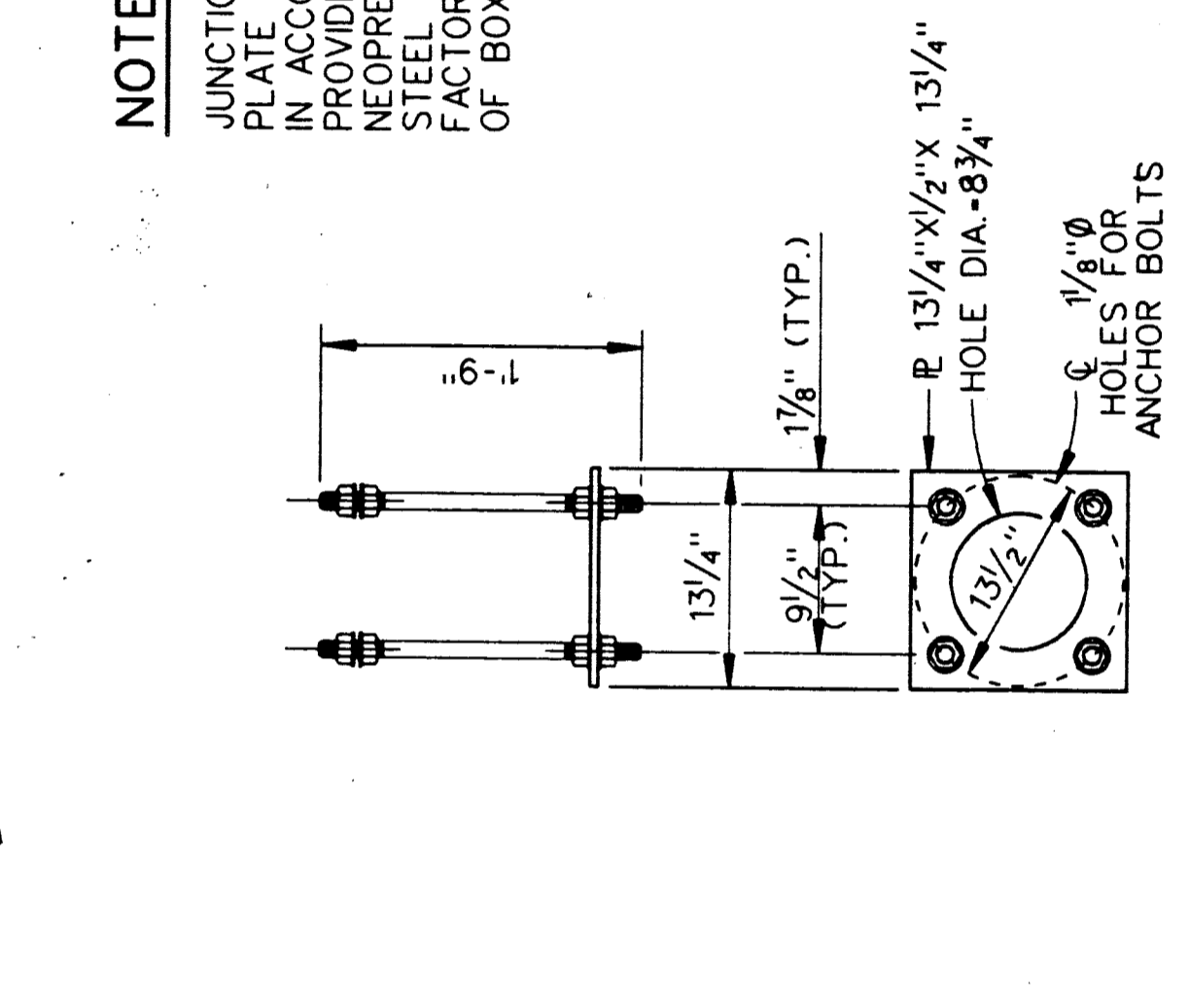
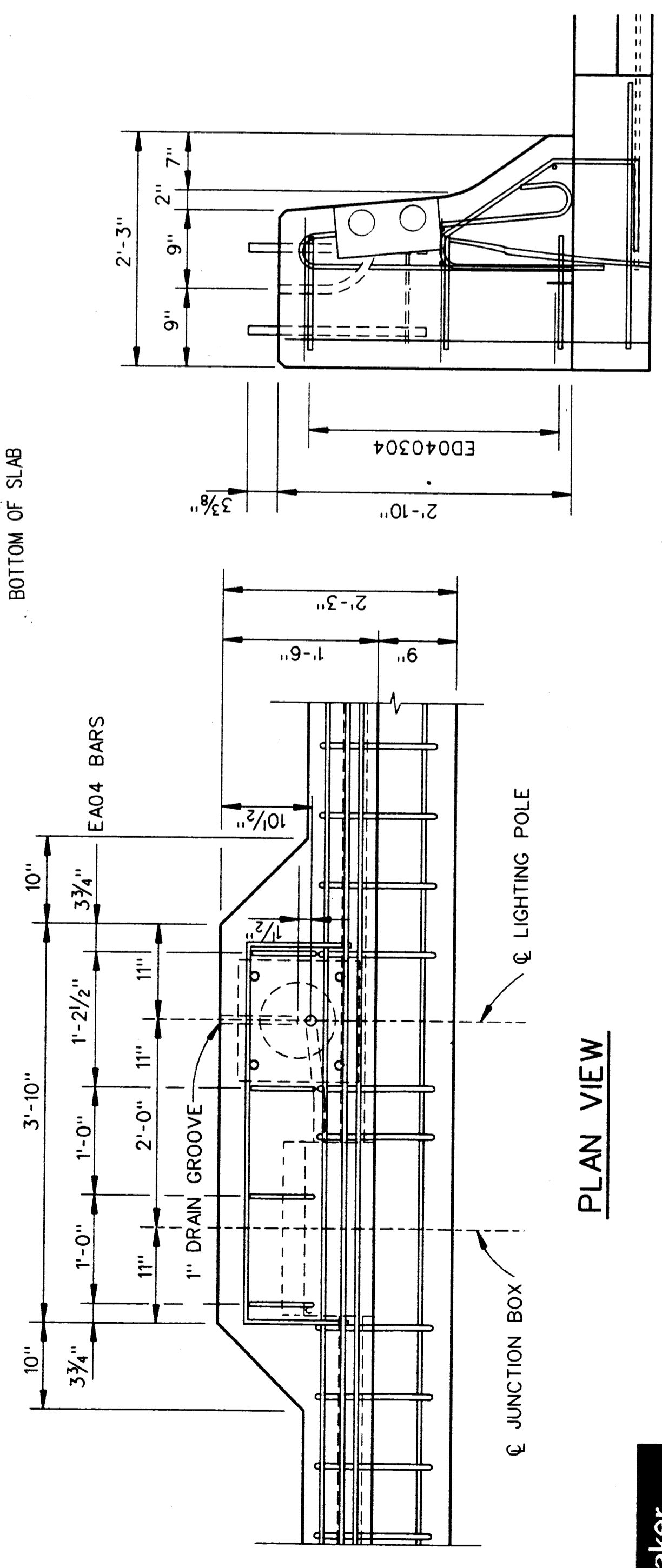
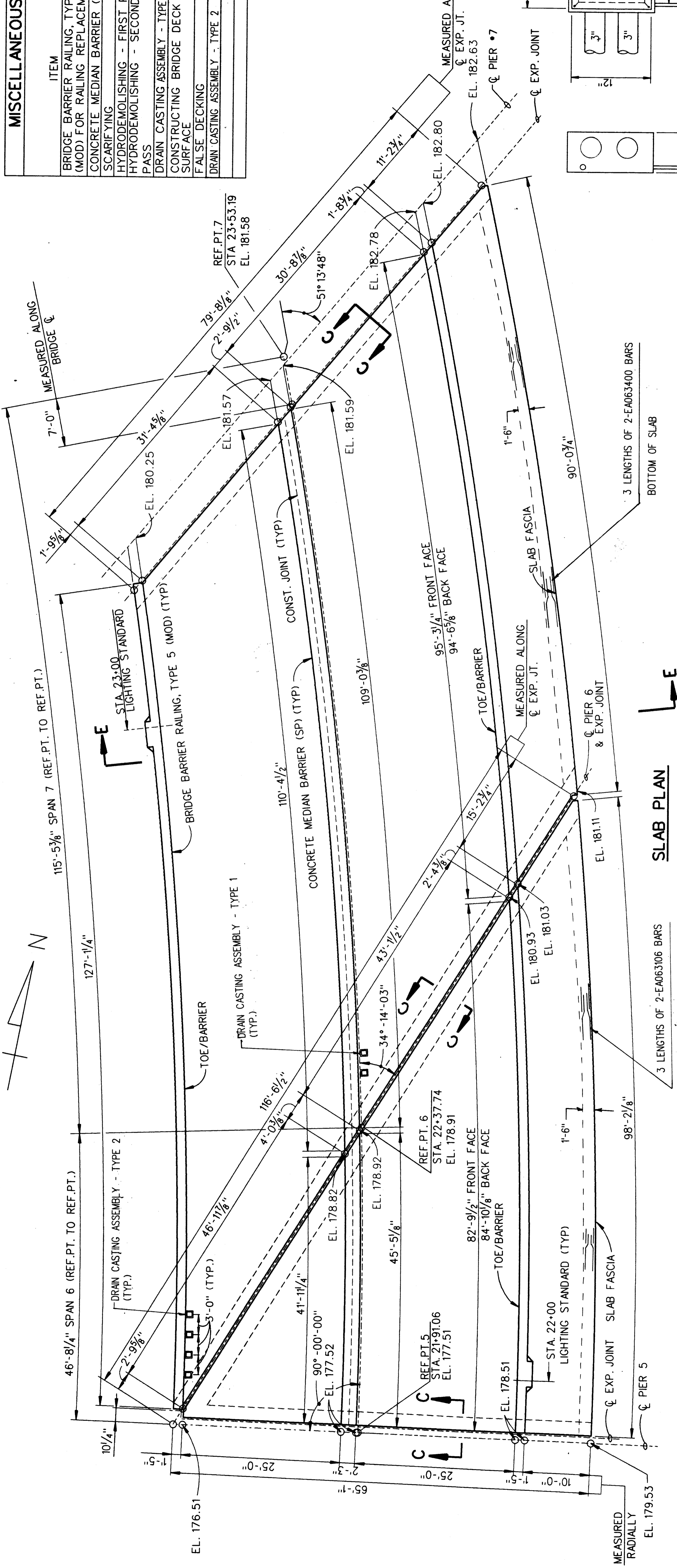
**SECTION E-E**

10 SPA#6'-1 1/8" \*\*61'-1"

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

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	82.8
CONCRETE MEDIAN BARRIER (SP.)	LFT	45.4
SCAFFOLDING	SYD	367.8
HYDRODEMOLISHING - FIRST PASS	SYD	367.8
HYDRODEMOLISHING - SECOND PASS	SYD	16.9
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	0
CONSTRUCTING BRIDGE DECK SURFACE	SYD	327.2
FALSE DECKING	SYD	368.0
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	0

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 WATER-TIGHT 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.

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

DESIGNED BY	DATE
CHECKED BY	DATE
DATE	DATE
SHEET	OF

B01 of 82-22-48

NO.	DESCRIPTION	REVISIONS	DATE	BY

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



### MISCELLANEOUS QUANTITIES

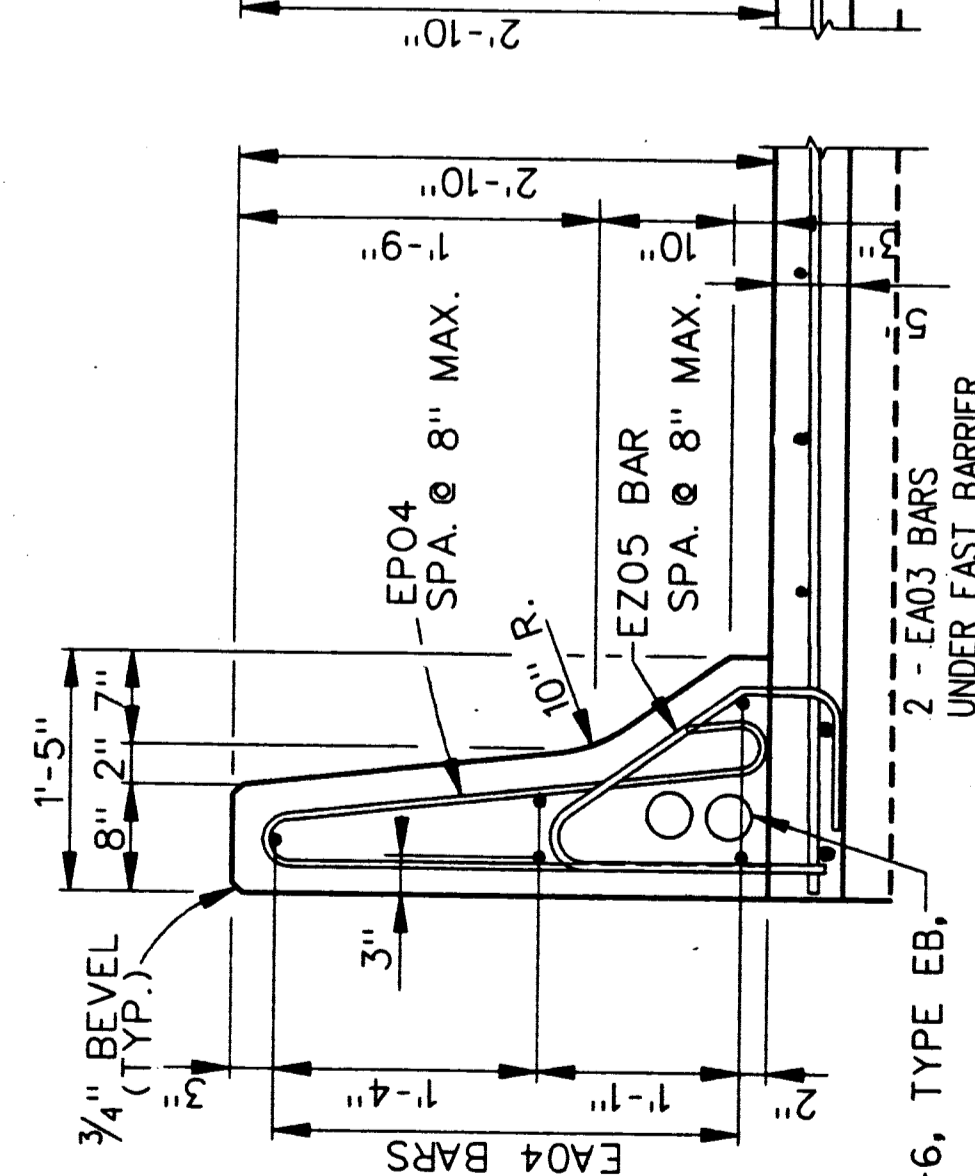
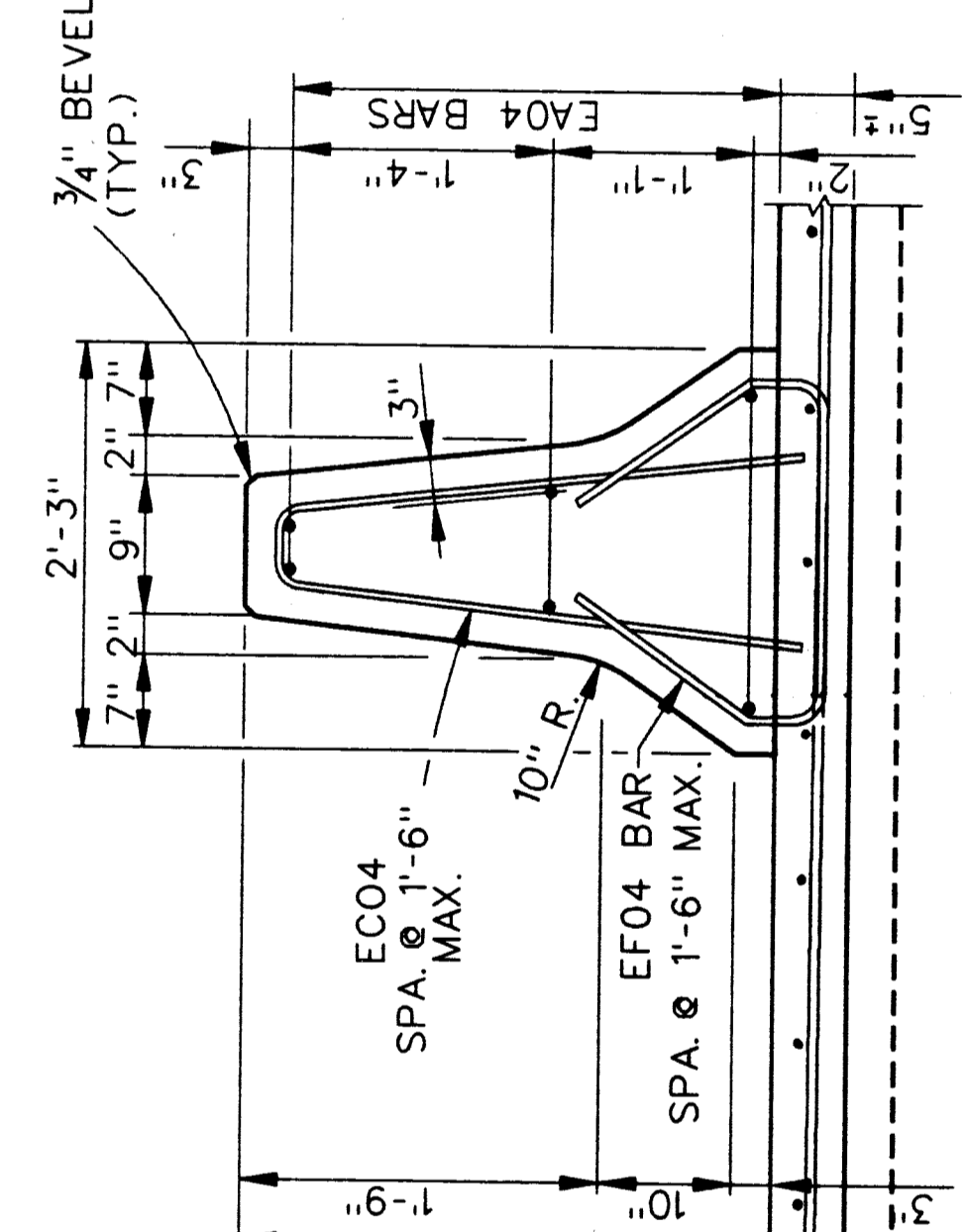
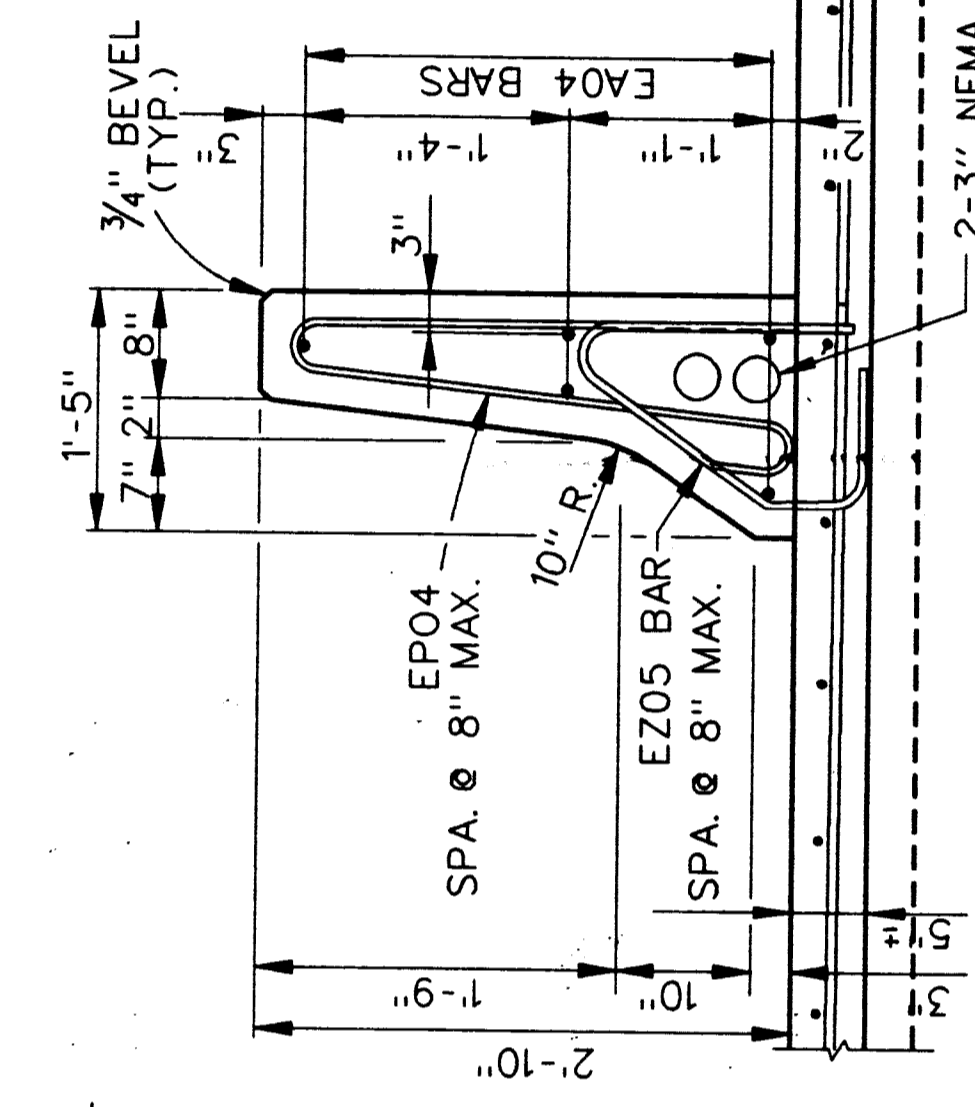
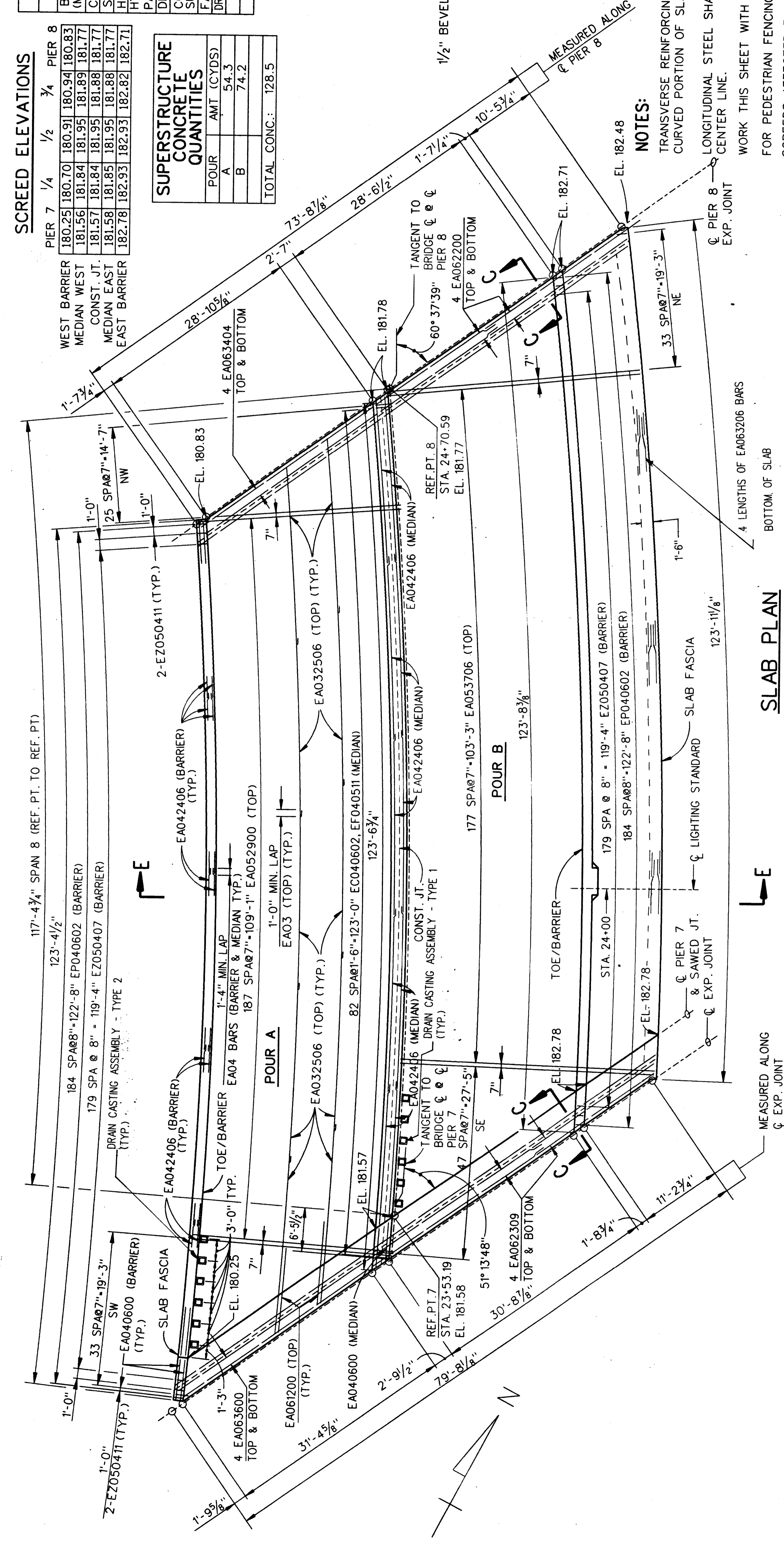
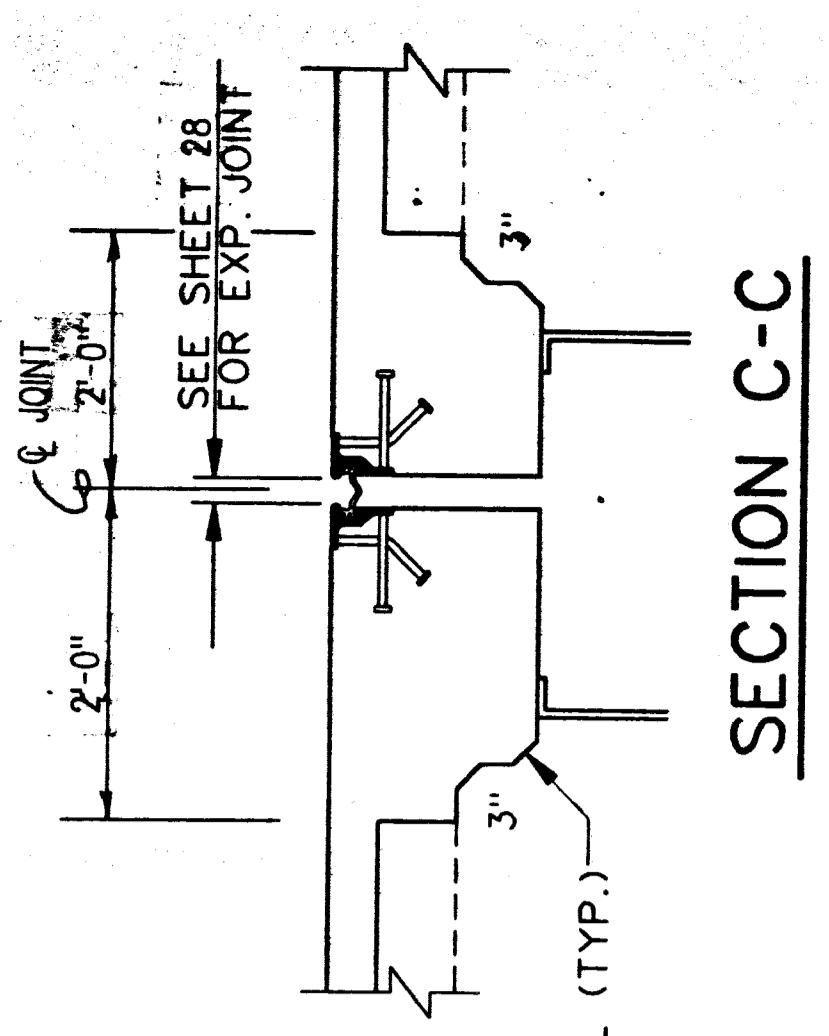
ITEM	UNIT	AMOUNT
BRIDGE BARRIER RAILING, TYPE 5 (MOD.) FOR RAILING REPLACEMENT	LFT	247.1
CONCRETE MEDIAN BARRIER (SP.)	LFT	123.6
SCARIFYING	SYD	890.0
HYDRODEMOLISHING - FIRST PASS	SYD	890.0
HYDRODEMOLISHING - SECOND PASS	SYD	20.5
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	4
CONSTRUCTING BRIDGE DECK SURFACE	SYD	855.5
FALSE DECKING	SYD	890.0
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	4

### SCREENED ELEVATIONS

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

### SUPERSTRUCTURE CONCRETE QUANTITIES

POUR	AMT (CYDS)
A	54.3
B	74.2
<b>TOTAL CONC.</b>	<b>128.5</b>



**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.

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

DESIGNED BY	DATE
CHECKED BY	DATE
DATE	DATE
SHEET 38	OF 57

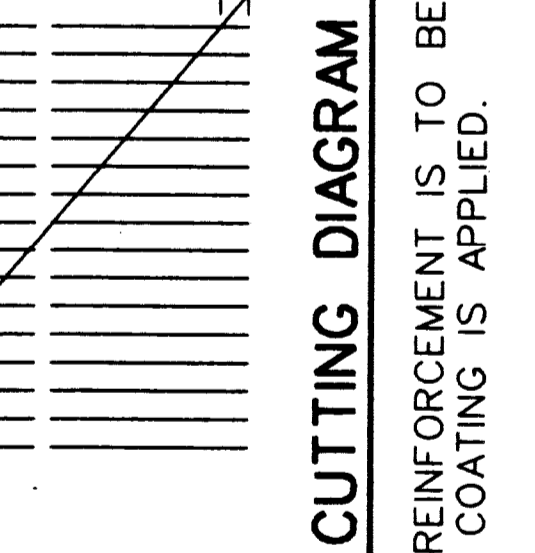
**B01 of 82-22-48**

NO.	DESCRIPTION	REVISION	DATE	BY

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

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

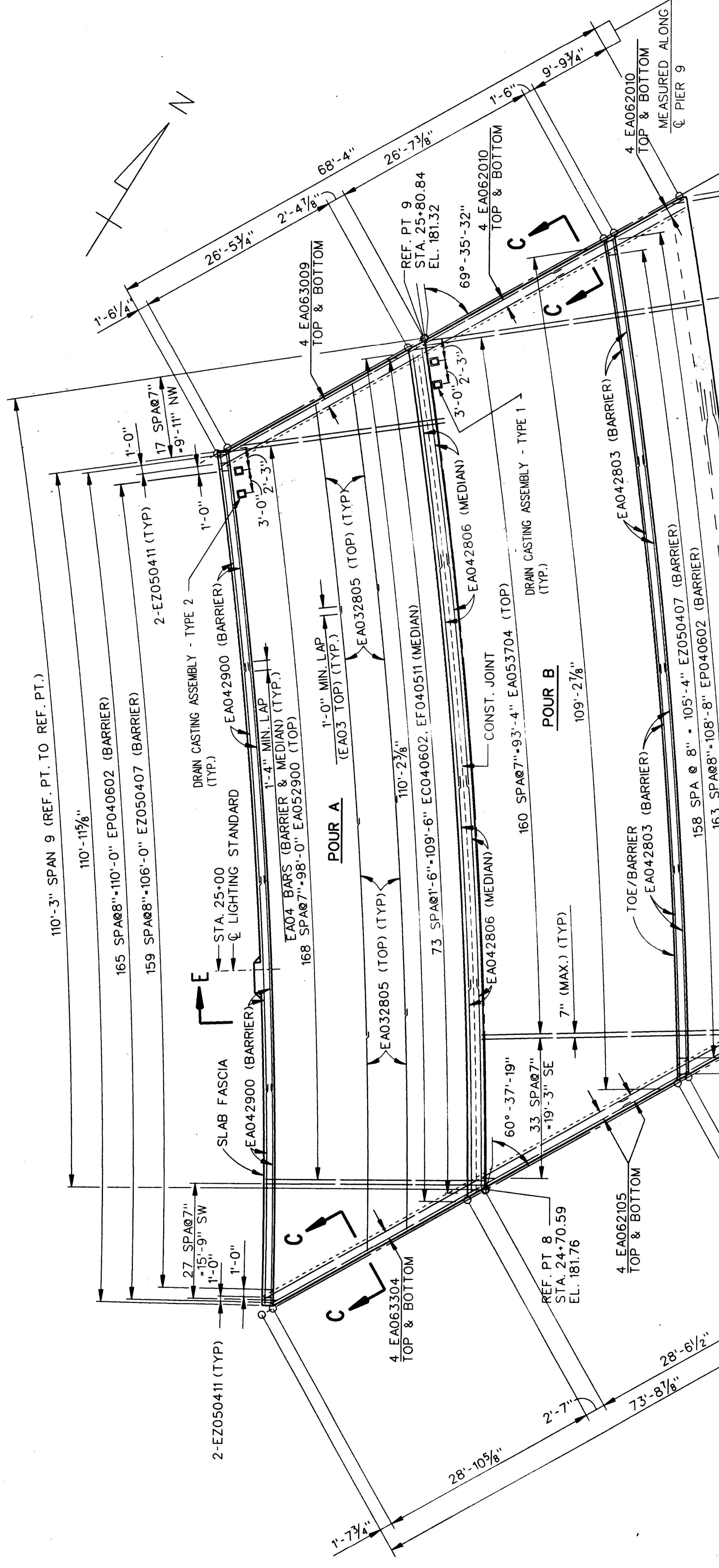
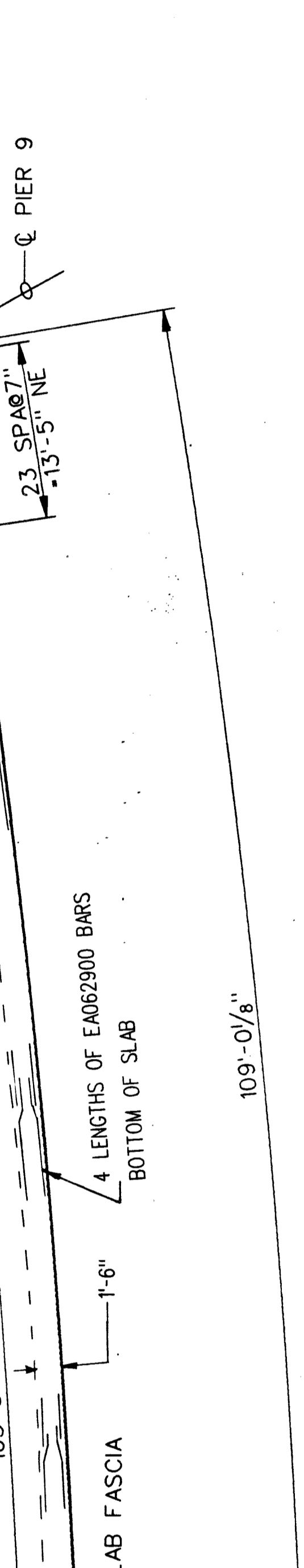
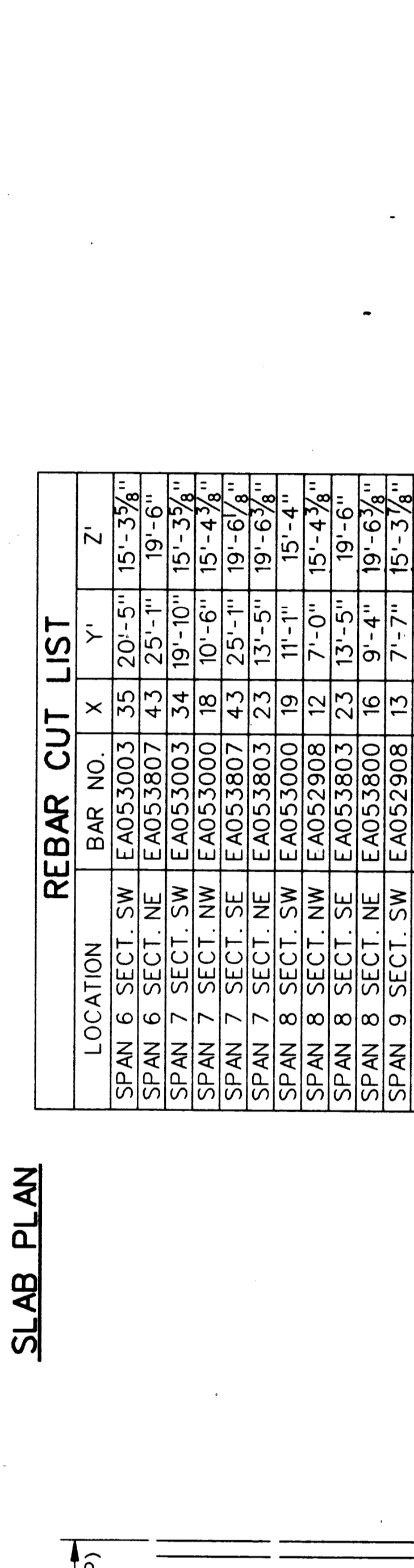
NOTE: REINFORCEMENT IS TO BE SHOP CUT BEFORE EPOXY COATING IS APPLIED.



**REBAR CUT LIST**

LOCATION	BAR NO.	X	Y	Z
SPAN 6 SECT. SW	EAO53003	35	20'-5"	15'-3 3/8"
SPAN 6 SECT. NE	EAO53807	43	25'-1"	19'-6"
SPAN 7 SECT. SW	EAO53003	34	19'-10"	15'-3 3/8"
SPAN 7 SECT. NW	EAO53000	18	10'-6"	15'-4 1/8"
SPAN 7 SECT. SE	EAO53807	43	25'-1"	19'-6 1/8"
SPAN 7 SECT. NE	EAO53803	23	13'-5"	19'-6 1/8"
SPAN 8 SECT. SW	EAO53000	19	11'-1"	15'-4 3/8"
SPAN 8 SECT. NW	EAO52908	12	7'-0"	15'-4 3/8"
SPAN 8 SECT. SE	EAO53803	23	13'-5"	19'-6"
SPAN 8 SECT. NE	EAO53800	16	9'-4"	19'-6 1/8"
SPAN 9 SECT. SW	EAO52908	13	7'-7"	15'-3 3/8"
SPAN 9 SECT. NW	EAO52901	8	4'-8"	15'-3 3/2"
SPAN 9 SECT. SE	EAO53800	16	9'-4"	19'-6 1/8"
SPAN 9 SECT. NE	EAO53705	11	6'-5"	19'-5 1/8"
SPAN 15 SECT. NW	EAO52905	12	7'-0"	15'-2 1/4"
SPAN 15 SECT. NE	EAO53709	16	9'-4"	19'-4 3/4"
SPAN 16 SECT. SE	EAO63500	14	8'-2"	33'-6"
SPAN 16 SECT. SW	EAO62706	10	5'-10"	26'-0"

NO.	DESCRIPTION	DATE	BY



**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	-
CONSTRUCTING BRIDGE DECK SURFACE	SYD	753.2
FALSE DECKING	SYD	786.0
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	-

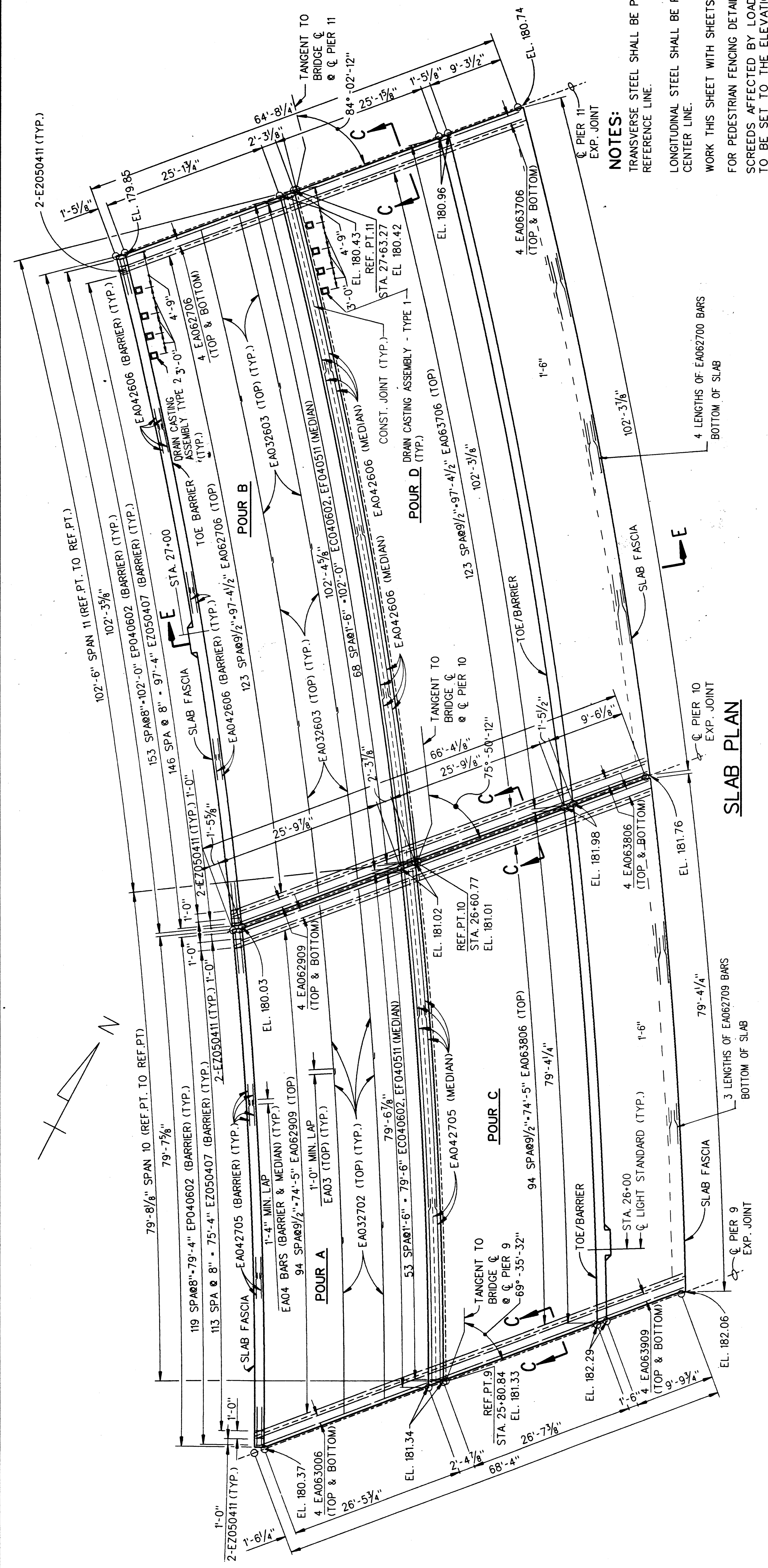
**SCREEN ELEVATIONS**

	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. J.T.	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
<b>TOTAL CONC.</b>	<b>114.9</b>

**NOTES:**  
 TRANSVERSE STEEL SHALL BE PLACED RADIALLY.  
 LONGITUDINAL STEEL SHALL BE PLACED CONCENTRIC TO BRIDGE CENTER LINE.  
 WORK THIS SHEET WITH SHEETS 26, 27, 33 THRU 38 AND 40 THRU 51.  
 FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS 52 & 53.  
 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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**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	AMOUNT	
	UNIT	SPAN 10 SPAN 11
BRIDGE BARRIER RAILING, TYPE 5 (MOD) FOR RAILING REPLACEMENT	LFT	158.9 204.6
CONCRETE MEDIAN BARRIER (SP.)	LFT	79.6 102.4
SCARIFYING	SYD	570.9 741.3
HYDRODEMOLISHING - FIRST PASS	SYD	570.9 741.3
HYDRODEMOLISHING - SECOND PASS	SYD	32.8 42.6
DRAIN CASTING ASSEMBLY - TYPE 1	EACH	0 1
CONSTRUCTING BRIDGE DECK SURFACE	SYD	540.6 711.8
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	0 1

**SCREED ELEVATIONS**

	PIER 9	1/4	1/2	3/4	PIER 10	1/4	1/2	3/4	PIER 11
WEST BARRIER	180.37	180.28	180.20	180.12	180.03	179.93	179.94	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

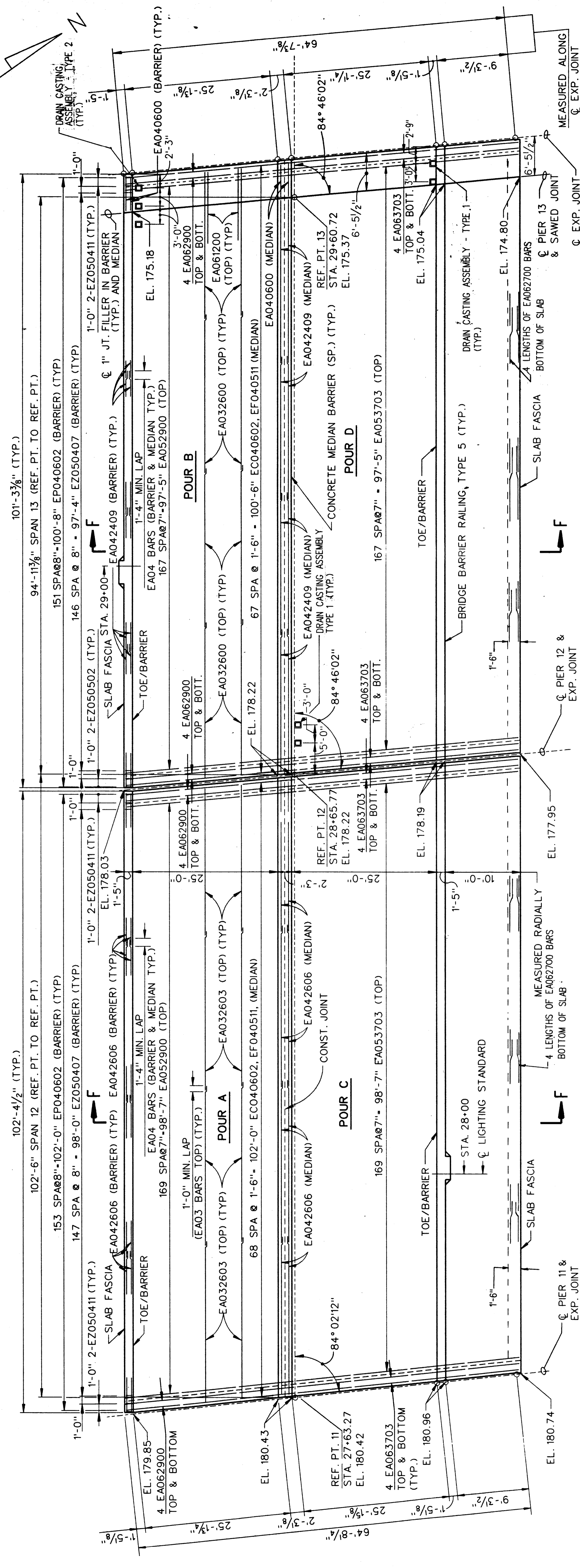
**NOTES:**  
 TRANSVERSE STEEL SHALL BE PLACED PARALLEL TO THE REFERENCE LINE.  
 LONGITUDINAL STEEL SHALL BE PLACED CONCENTRIC TO BRIDGE CENTER LINE.  
 WORK THIS SHEET WITH SHEETS 26, 27, 33 THRU 40 AND 41 THRU 51.  
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THE CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 MOUNT ELLIOTT-MOUND ROAD GRADE SEPARATION  
 SUPERSTRUCTURE DETAILS

NO.	DESCRIPTION	DATE	BY

SOUND BOSS: NAME, DATE, DATE 8/75  
 DRAWN BY: NAME, DATE, DATE 1/84  
 CHECKED BY: NAME, DATE, DATE 1/84  
 SHEET: 40 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



**MISCELLANEOUS QUANTITIES**

ITEM	UNIT	SPAN 12	SPAN 13	AMOUNT
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	1	
CONSTRUCTING BRIDGE DECK SURFACE	SYD	707.6	703.3	
DRAIN CASTING ASSEMBLY - TYPE 2	EACH	0	1	

**SCREENED 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
<b>TOTAL CONC.</b>	<b>213.4</b>

**NOTES:**  
 WORK THIS SHEET WITH SHEETS 26, 27, 33 THRU 40 AND 42 THRU 51.  
 FOR PEDESTRIAN FENCING DETAILS, SEE SHEETS 52 & 53.  
 SCREENS 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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**SLAB PLAN**

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

NO. DESCRIPTION REVISIONS DATE BY

REVISIONS

DATE BY

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