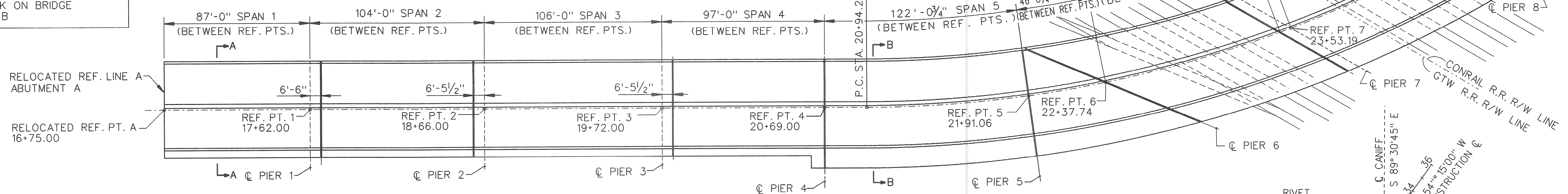


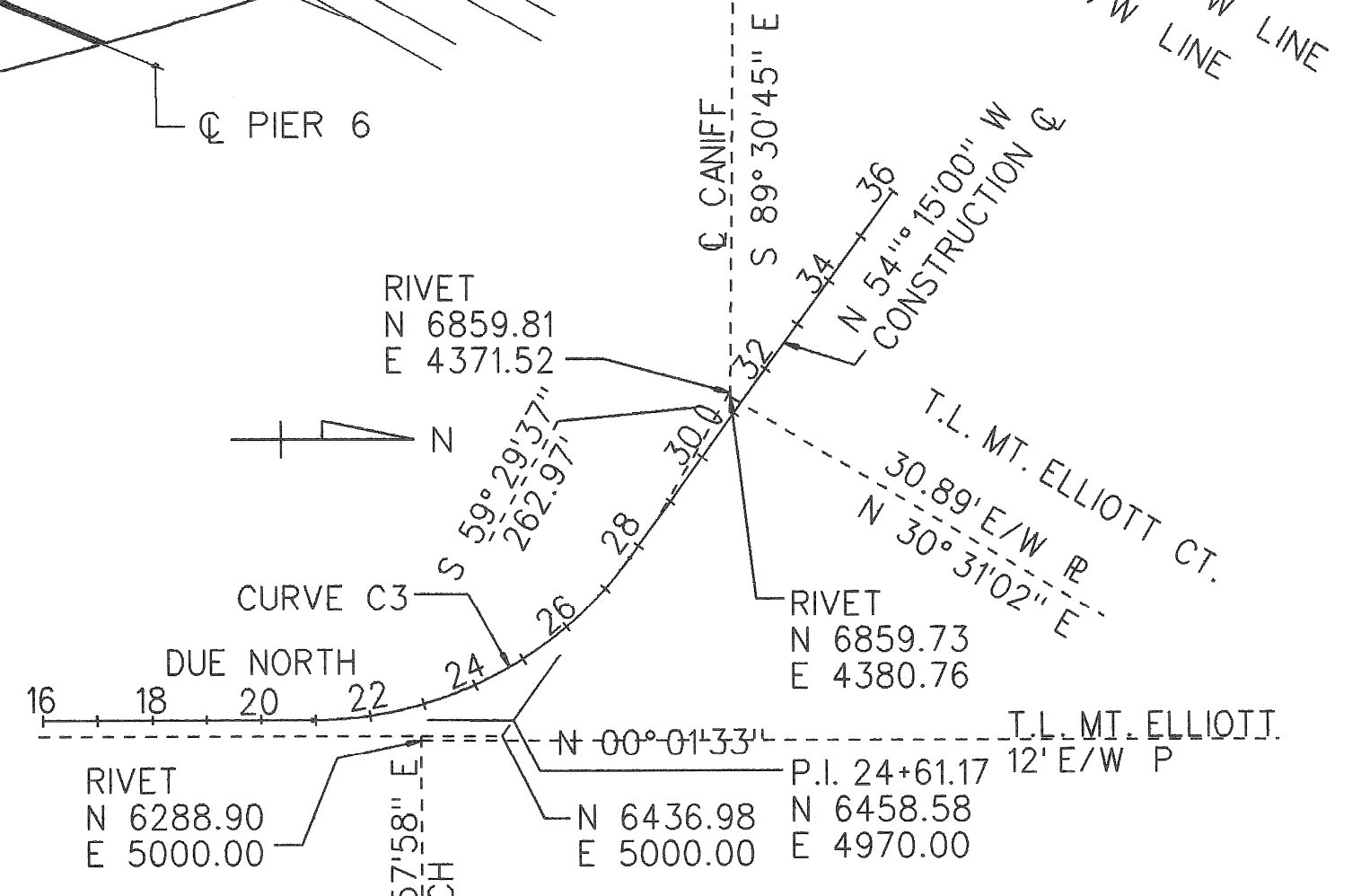
BENCHMARKS	
PBM 51-253	ELEV. 152.13
MONUMENTS C MOUND AND N. P. CANIFF.	
PBM	ELEV.
MONUMENT LOCATED ON EAST SIDEWALK ON BRIDGE AT ABUTMENT A.	
PBM	ELEV.
MONUMENT LOCATED ON WEST SIDEWALK ON BRIDGE AT ABUTMENT B.	

CURVE DATA C3

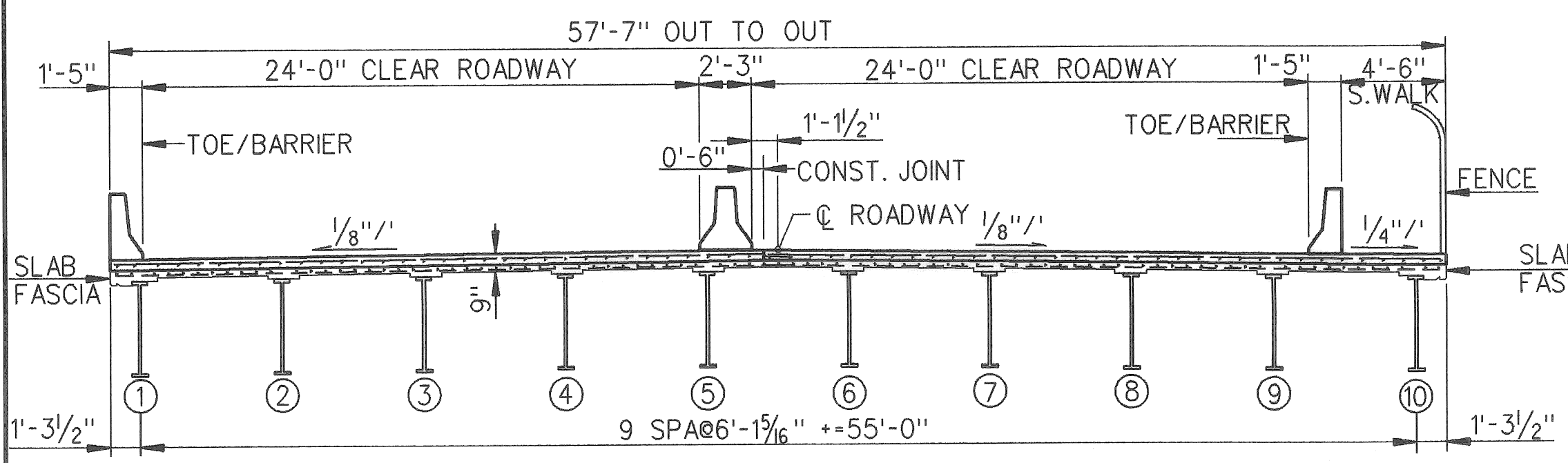
PI STA 24+61.17
 Δ 54°15'00"
 D 8°00'
 R 716.20'
 L 678.12'
 T 366.89'
 E 88.51'



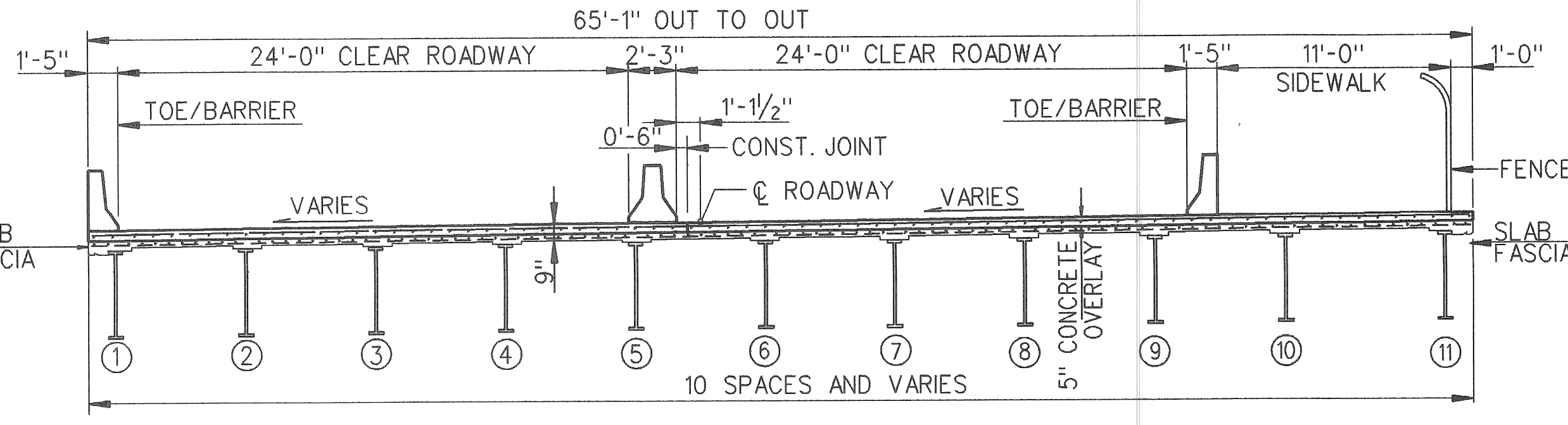
PLAN
SCALE: 1"=30'



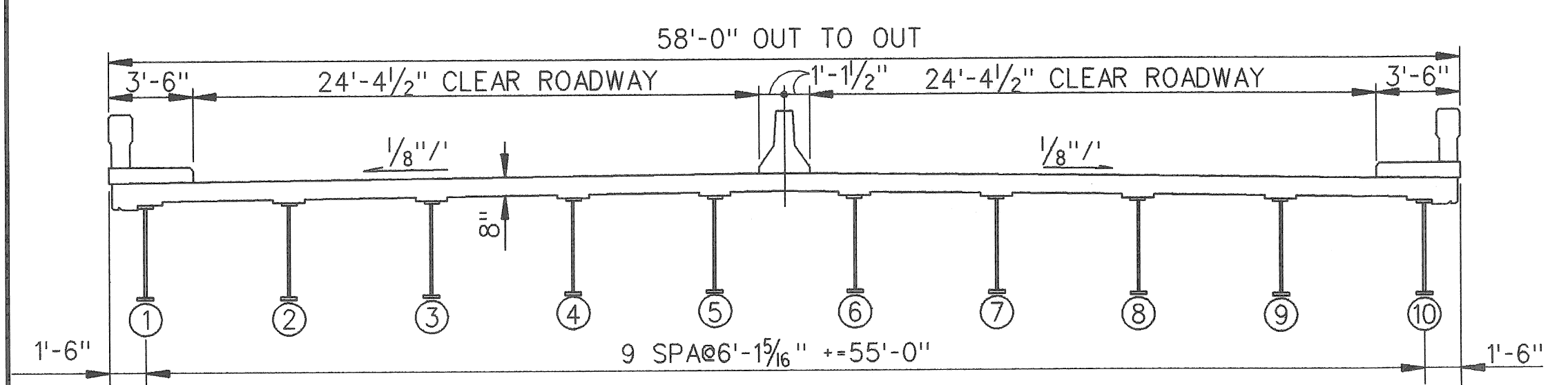
ALIGNMENT DIAGRAM



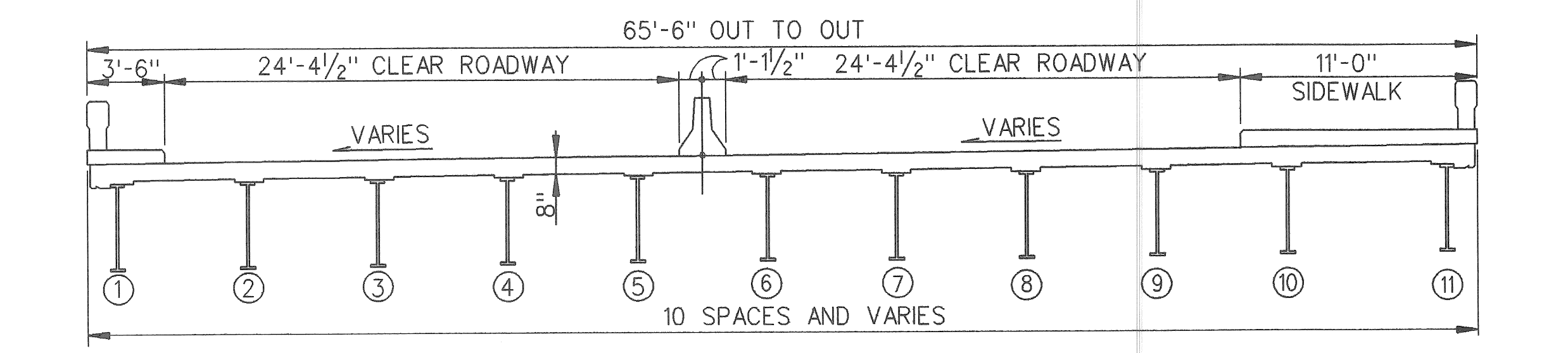
SECTION A-A
(PROPOSED)



SECTION B-B
(PROPOSED)



SECTION A-A
(EXISTING)



SECTION B-B
(EXISTING)

NOTES:

- THE WORK COVERED BY THESE PLANS INCLUDES REMOVAL OF EXISTING BARRIER WALLS, MEDIAN, DECK LIGHTING, DECK JOINTS, AND HYDRODEMOLISHING THE DECK SLAB 4"; PLACEMENT OF NEW DECK JOINTS, 5" CONCRETE OVERLAY WITH EPOXY-COATED REINFORCEMENT, TYPE 5 BARRIER WALLS AND MEDIAN; CLEANING AND PAINTING 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 48 HOURS PRIOR TO EXCAVATION IN THE VICINITY OF UTILITIES LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL THUS 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.
- THE EXISTING STRUCTURE SHALL BE CHECKED AT THE TIME OF STARTING CONSTRUCTION TO SEE THAT ITS RELATIONSHIP TO THE PROPOSED WORK IS AS SHOWN ON THESE PLANS AND ANY DIFFERENCES REQUIRING CHANGES IN THE NEW WORK SHALL BE REPORTED TO THE CITY OF DETROIT.
- 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.

NOTES:
 FOR SECTION AT DECK JOINTS, SEE SHEET 4 OF 4.
 FOR ABUTMENT A LAYOUT, SEE SHEET 4 OF 4.
 FOR BARRIER DETAIL, SEE SHEET 3 OF 4.
 CLEANING AND PAINTING OF ALL STRUCTURAL STEEL.

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MICHIGAN DEPARTMENT OF TRANSPORTATION
 MOUNT ELLIOTT-MOUND ROAD BRIDGE
 IN THE CITY OF DETROIT
GENERAL PLAN OF STRUCTURE

REVISIONS			
NO.	DESCRIPTION	DATE	BY

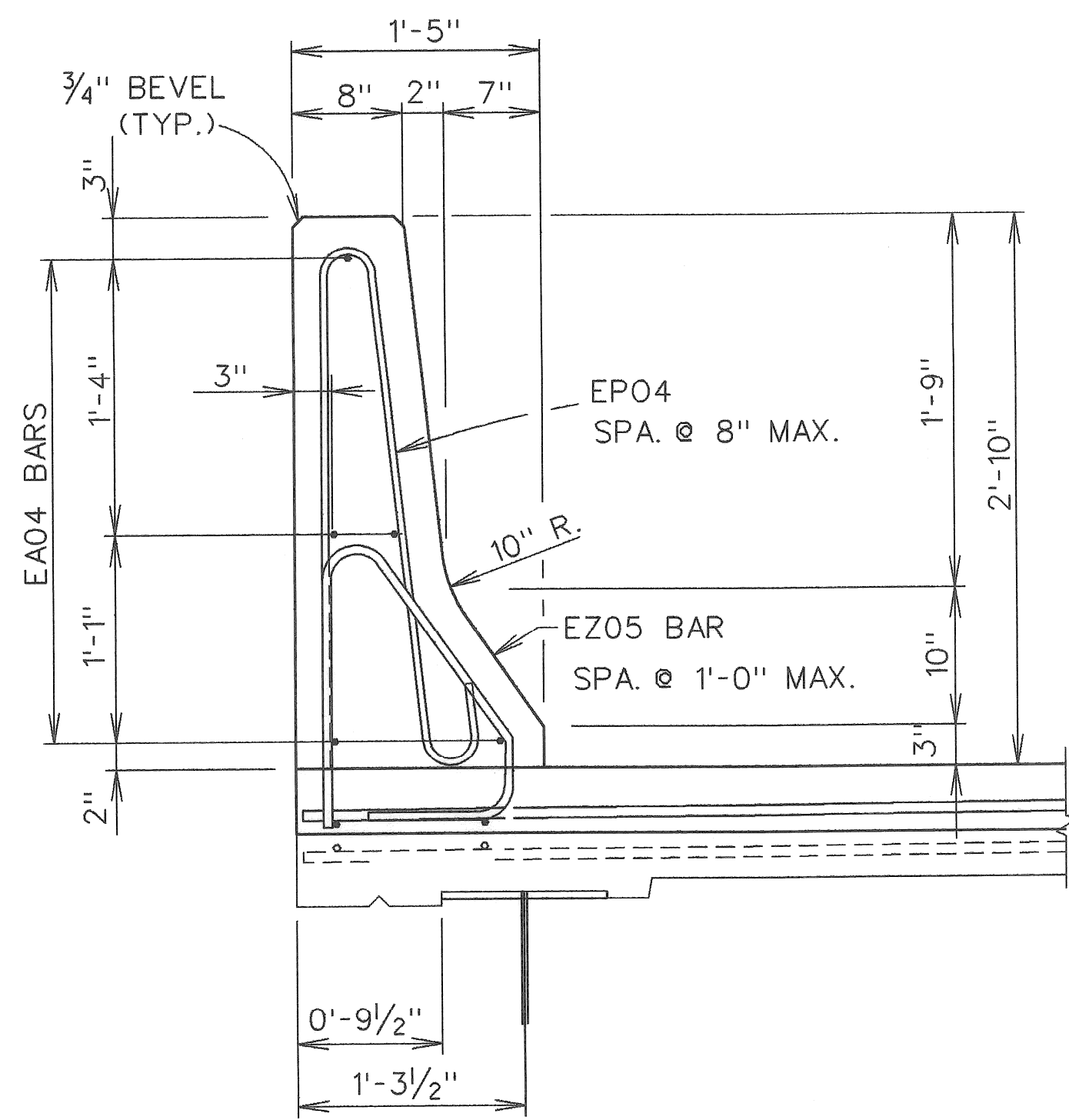
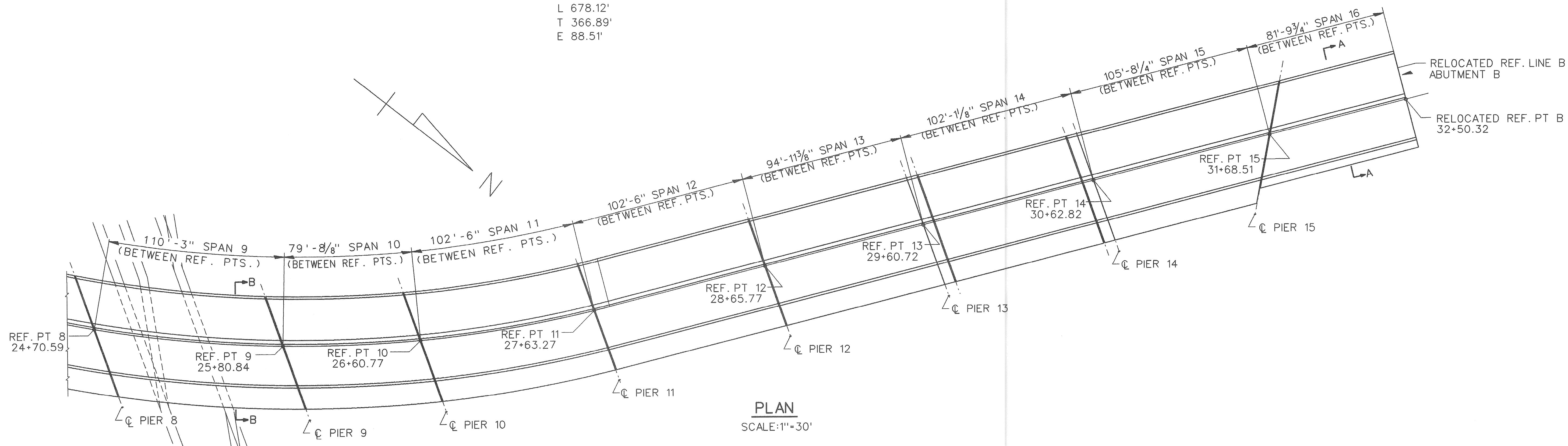
SQUAD BOSS	NAME	REL	DATE

APPROVED _____
 DESIGN SUPERVISING ENGINEER

f:\20329\final\span18.dgn

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'



TYPICAL BARRIER SECTION

NOTES:
 FOR SECTIONS A-A AND B-B, SEE SHEET 2 OF 4.
 FOR SECTION AT DECK JOINTS, SEE SHEET 4 OF 4.
 FOR ABUTMENT B LAYOUT, SEE SHEET 4 OF 4

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MICHIGAN DEPARTMENT OF TRANSPORTATION
 MOUNT ELLIOTT-MOUND ROAD BRIDGE
 IN THE CITY OF DETROIT
 GENERAL PLAN OF STRUCTURE

REVISIONS			
NO.	DESCRIPTION	DATE	BY

APPROVED _____
 DESIGN SUPERVISING ENGINEER

SQUAD BOSS	NAME	DATE

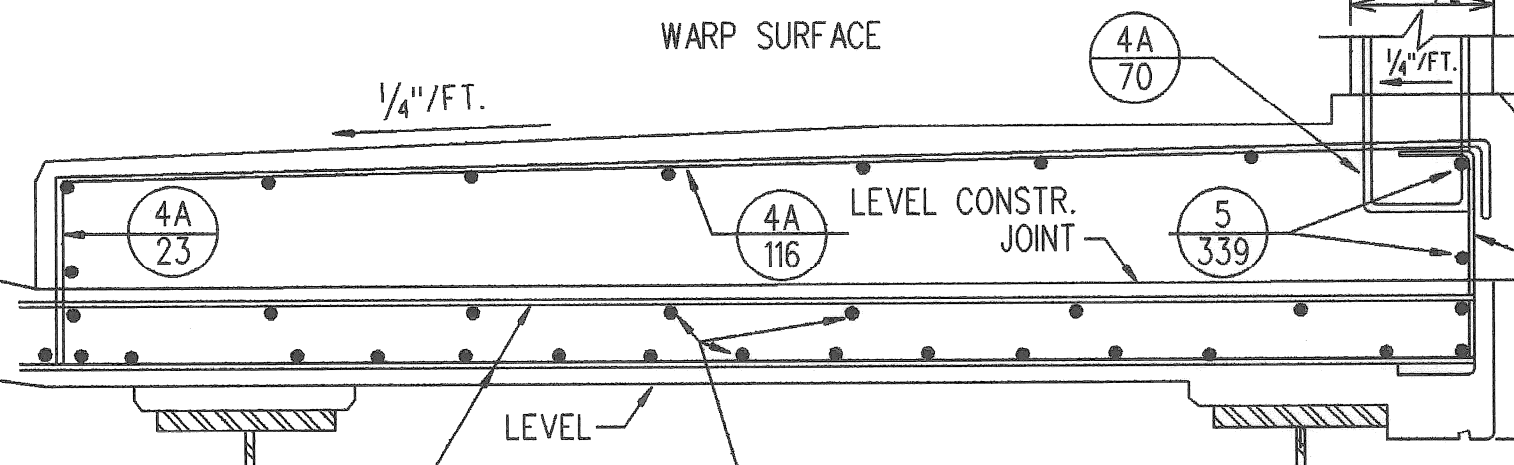
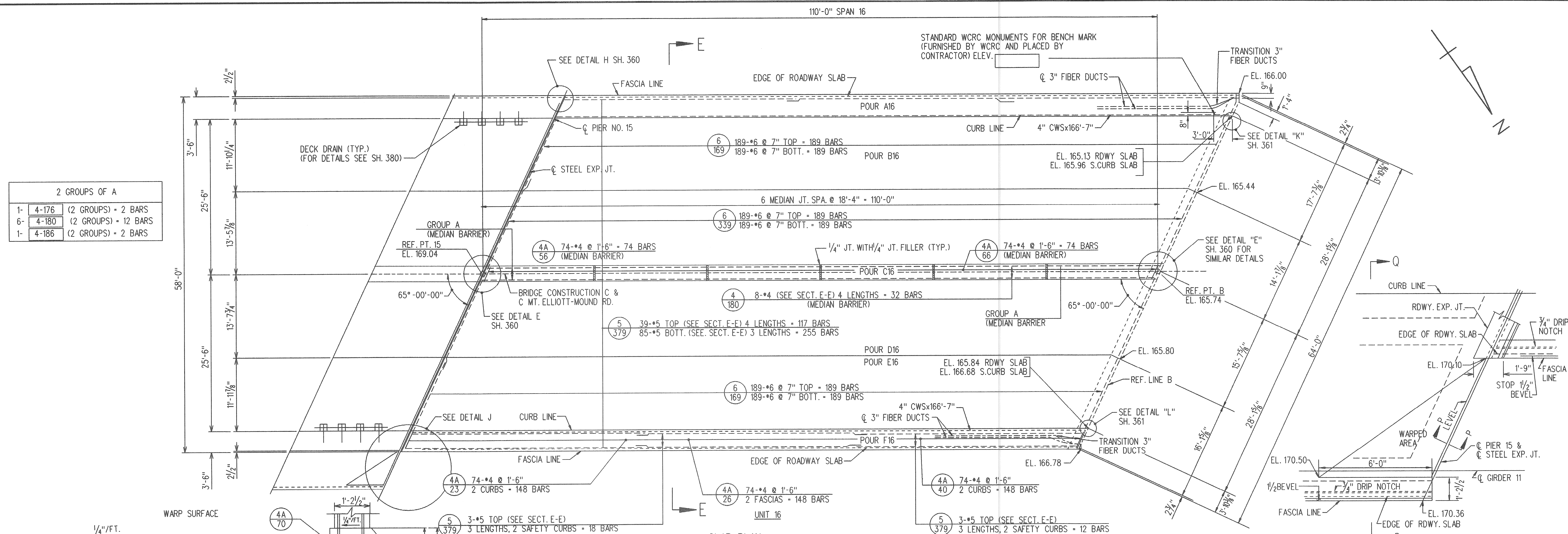
DRAWN BY	NAME	MW	DATE

CHECKED BY	NAME	DATE

SHEET 3 OF 4

f:\20329\final\span916.dgn

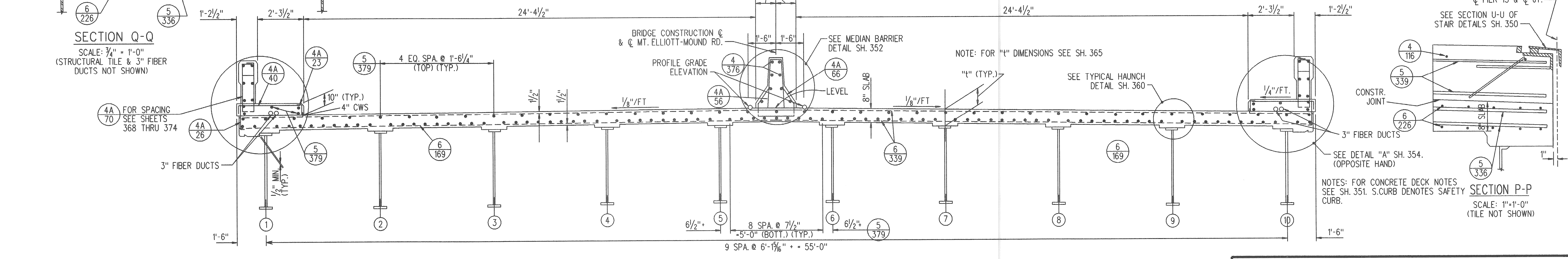
2 GROUPS OF A		
1-	4-176	(2 GROUPS) = 2 BARS
6-	4-180	(2 GROUPS) = 12 BARS
1-	4-186	(2 GROUPS) = 2 BARS



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)

DETAIL J
SCALE: 3/8" = 1'-0"
NOTE: FOR DETAIL OF STAIRS SEE SHTS. 348 THRU 350



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

NOTE: THIS SHEET FOR REFERENCE ONLY.

MICHIGAN DEPARTMENT OF TRANSPORTATION
MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
CONCRETE REMOVAL - SPAN 16

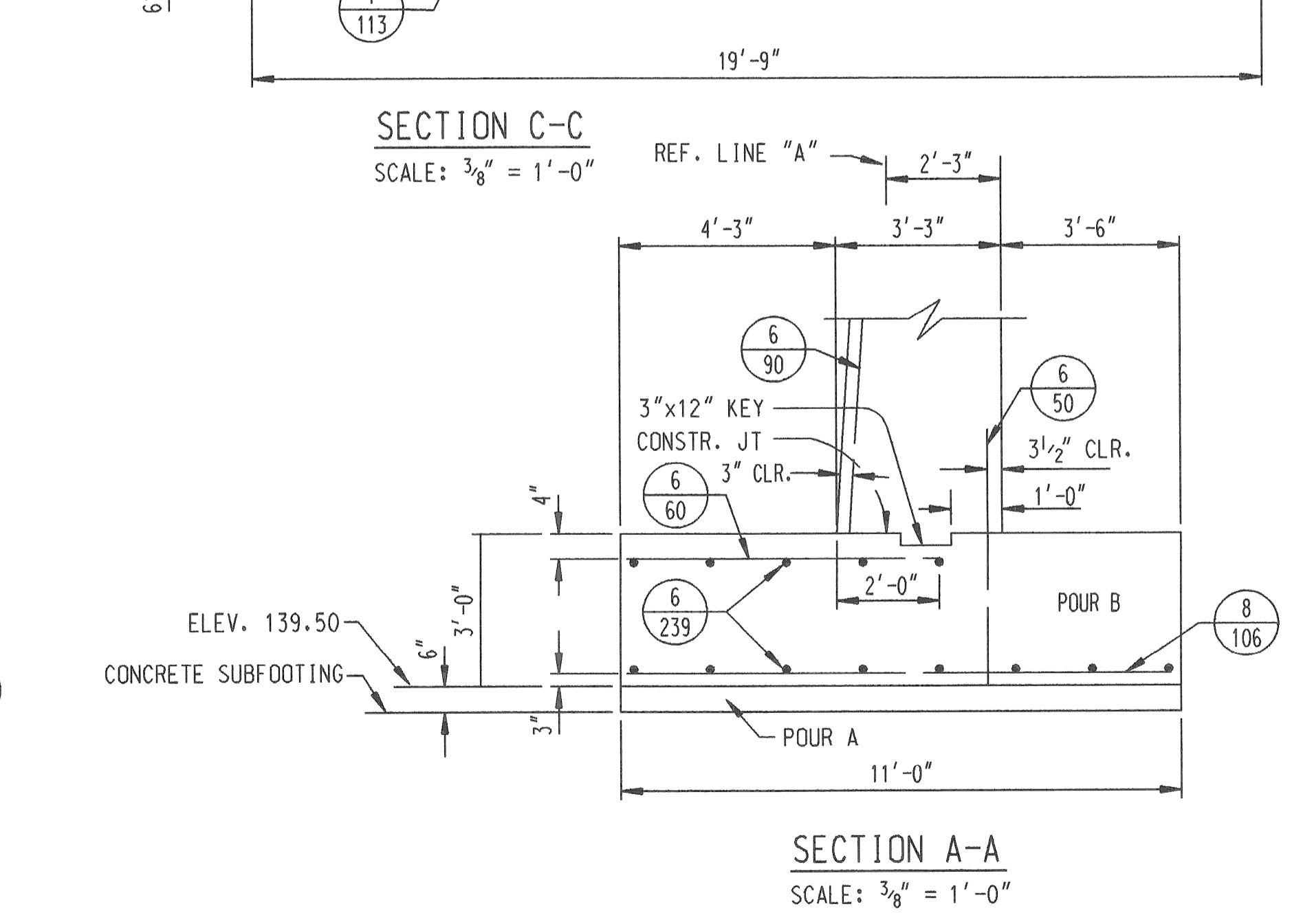
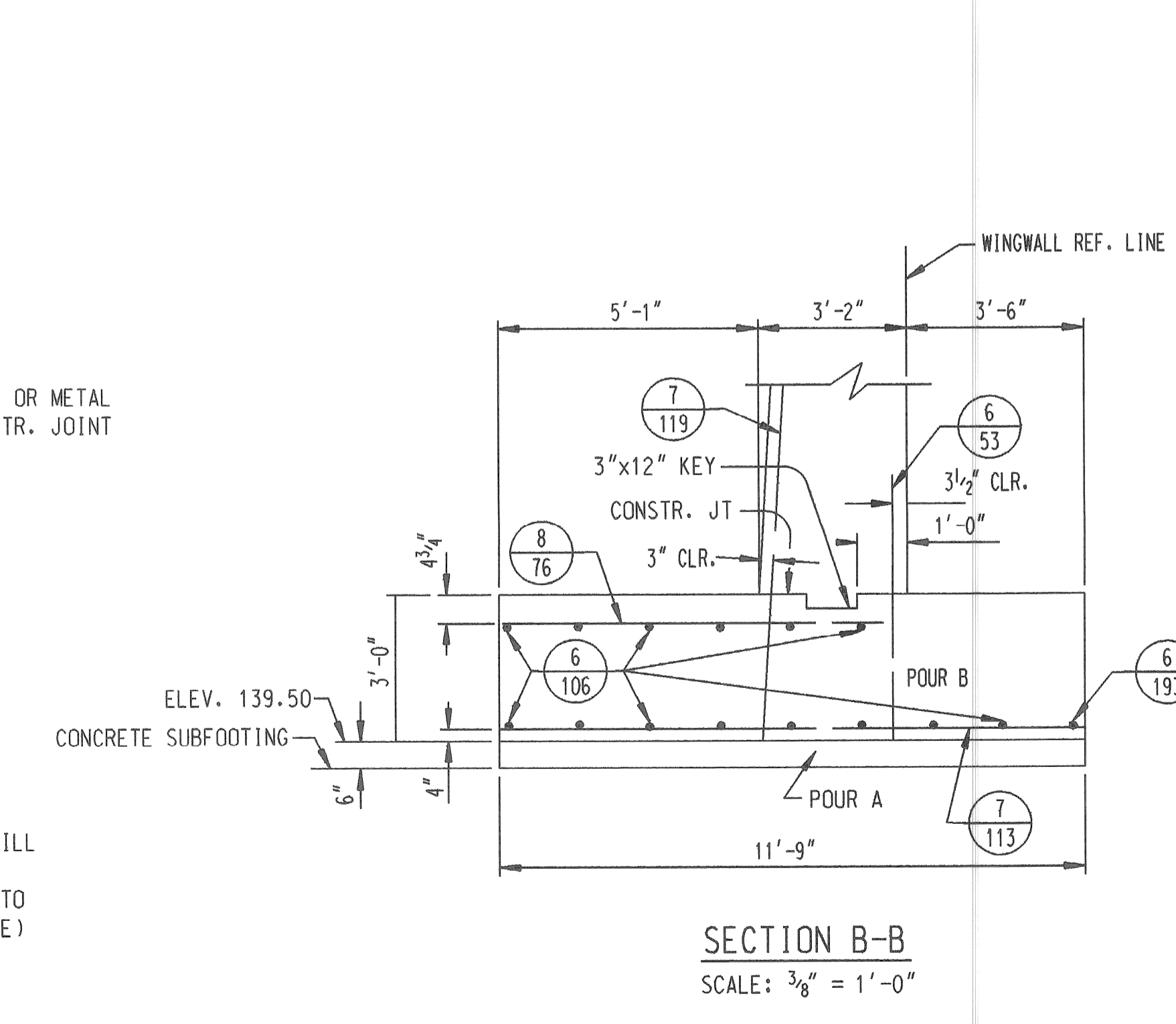
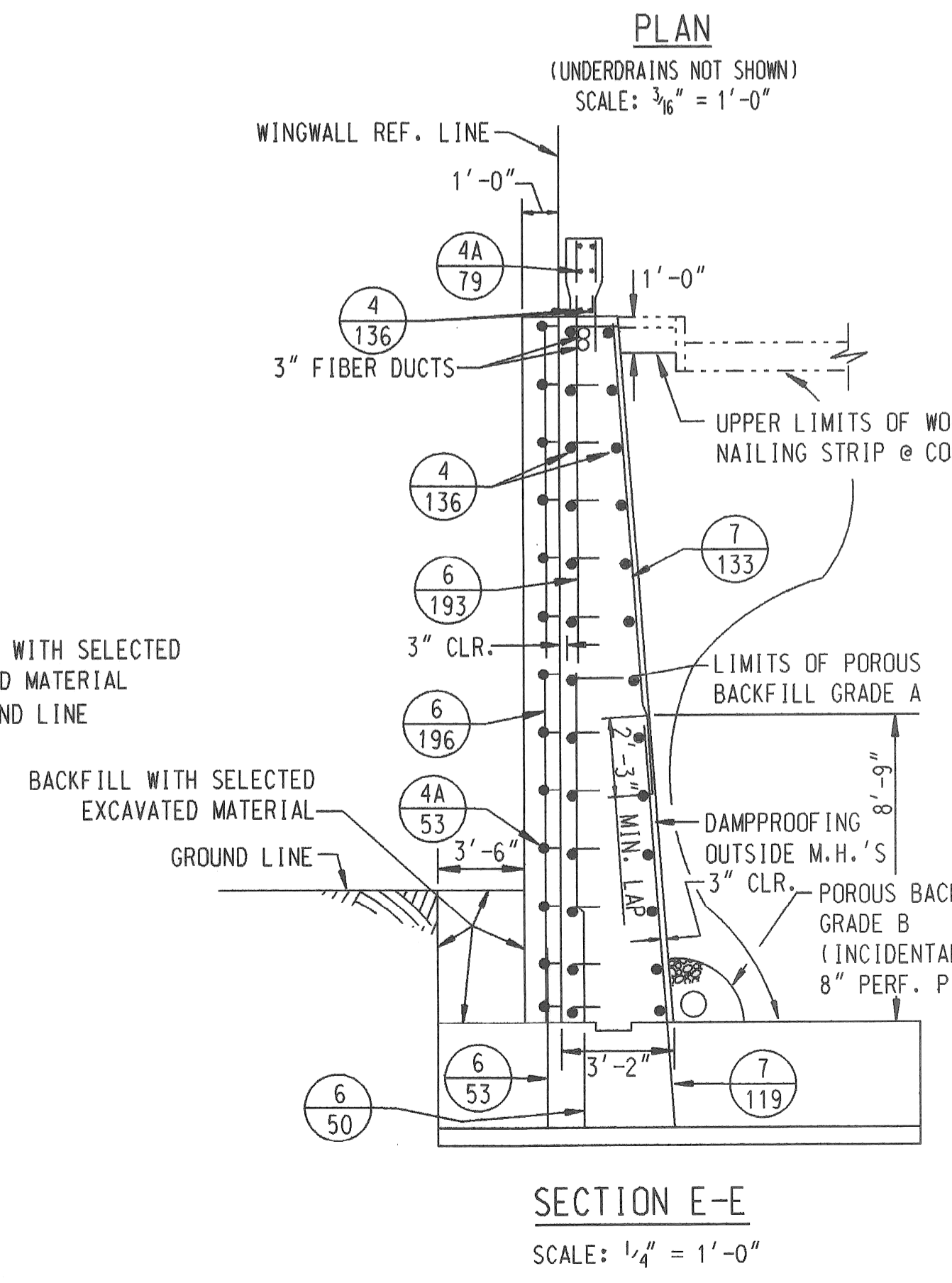
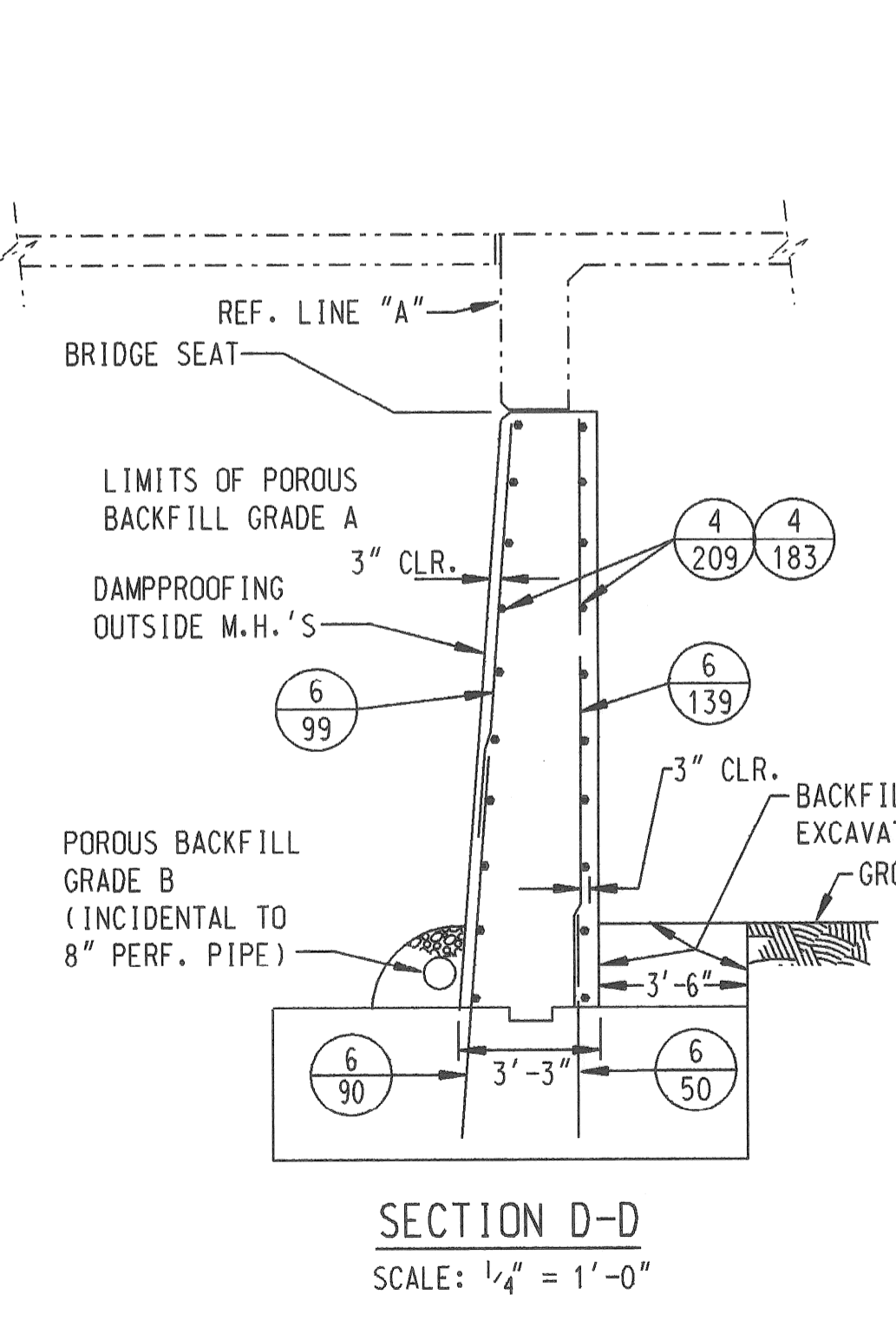
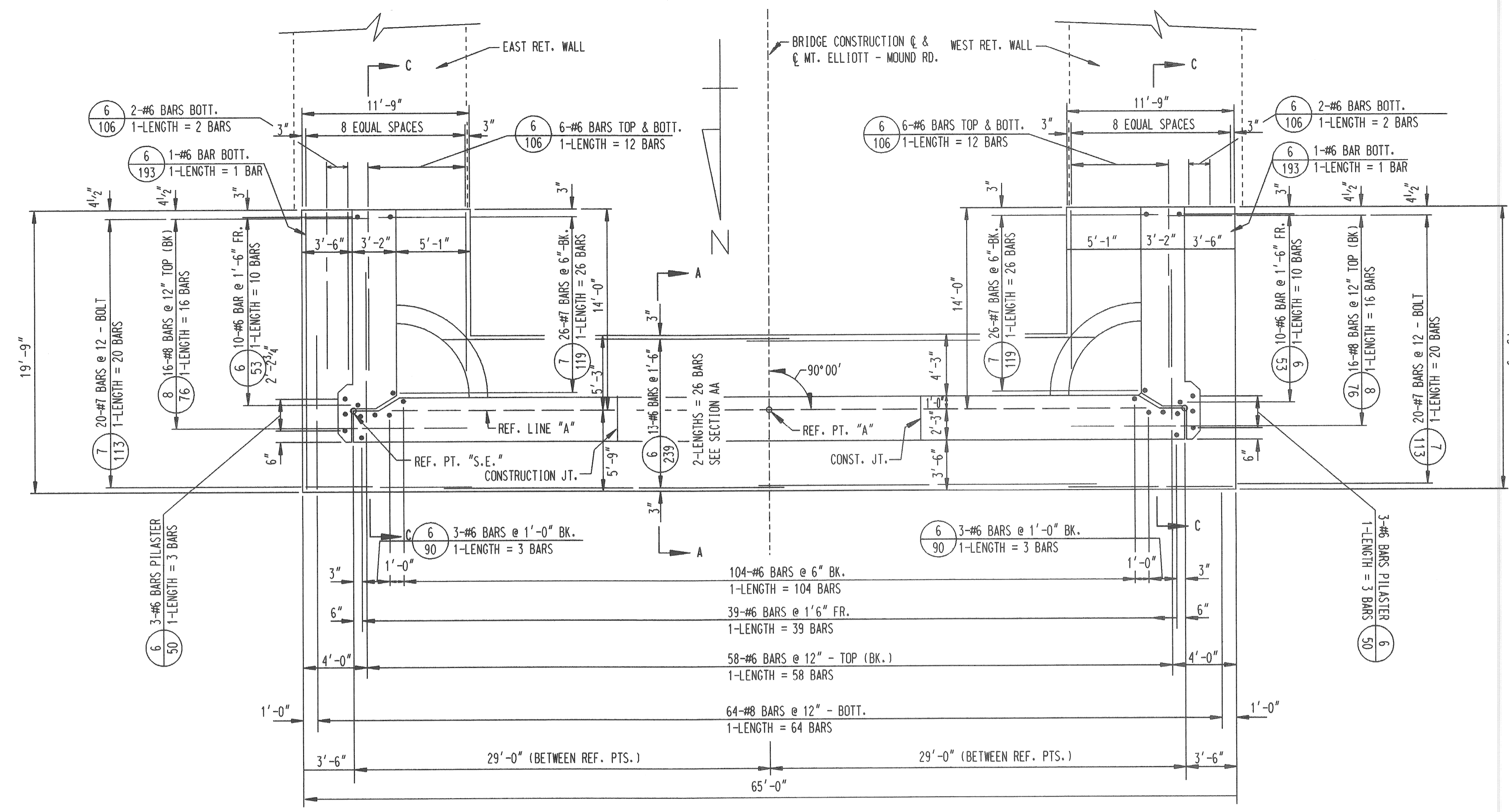
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REVISIONS			
NO.	DESCRIPTION	DATE	BY

APPROVED

DESIGN SUPERVISING ENGINEER

SQUAD BOSS	NAME	DATE



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.

NOTE: THIS SHEET FOR REFERENCE ONLY.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

APPROVED

DESIGN SUPERVISING ENGINEER

SQUAD BOSS	NAME	DATE

QUANTITIES FOR FOOTING

Steel Reinforcement	16,137 lbs.
Grade A(10B Gravel or 10B Slag)	
Concrete - Substructure	188.1 cu yds.
Heating and Housing Substructure	161.1 cu yds.

**GENERAL NOTES
FOR REINFORCED CONCRETE**

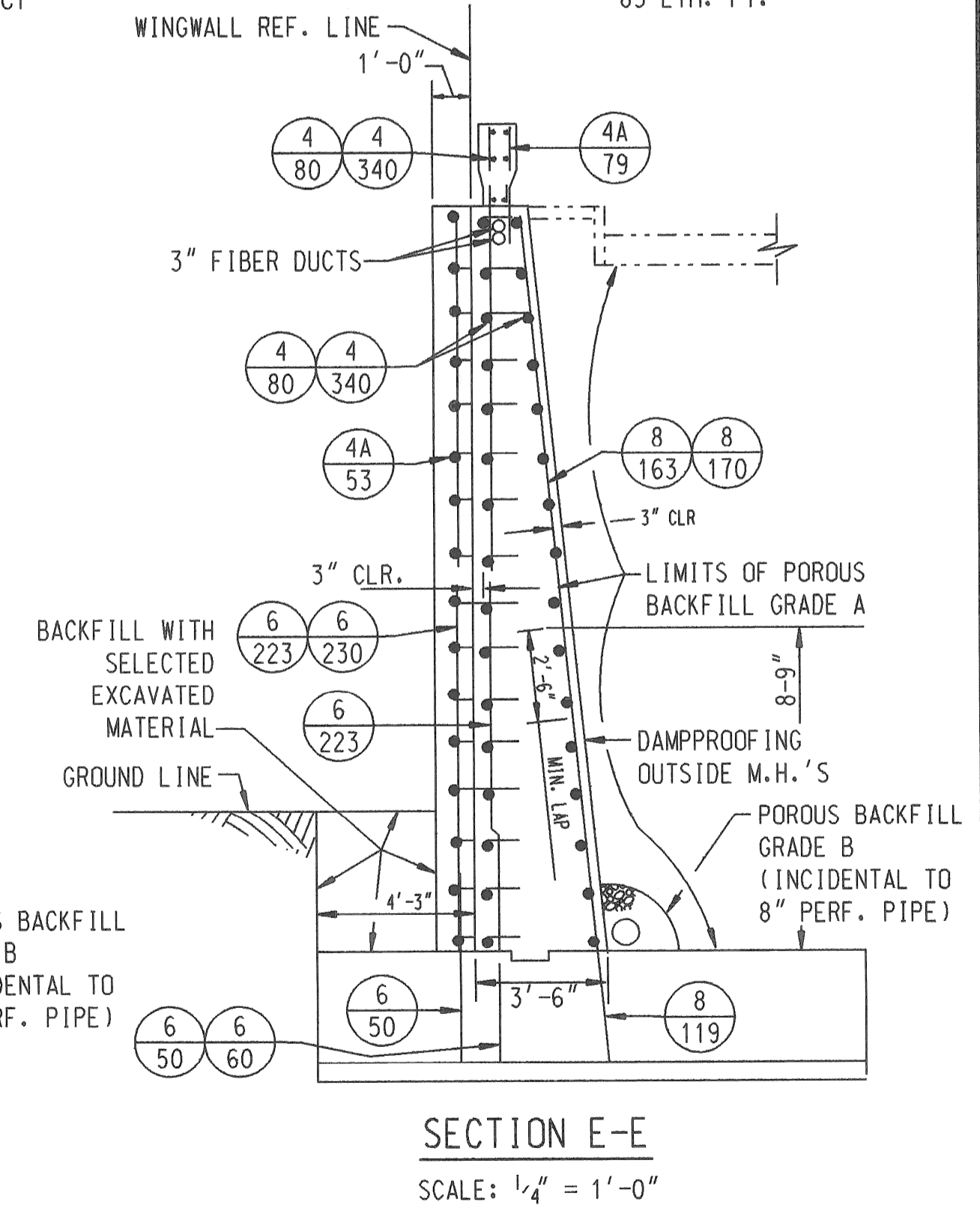
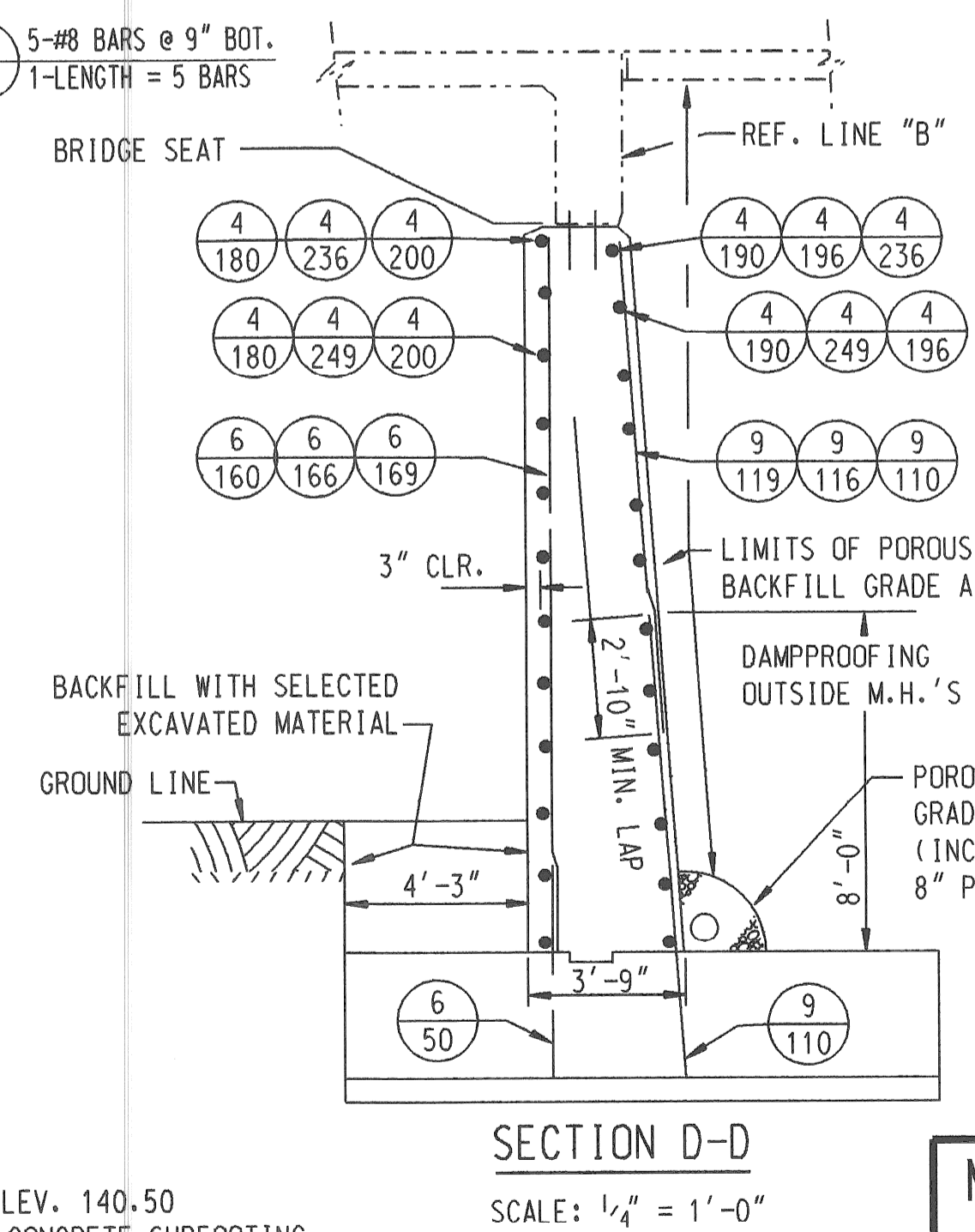
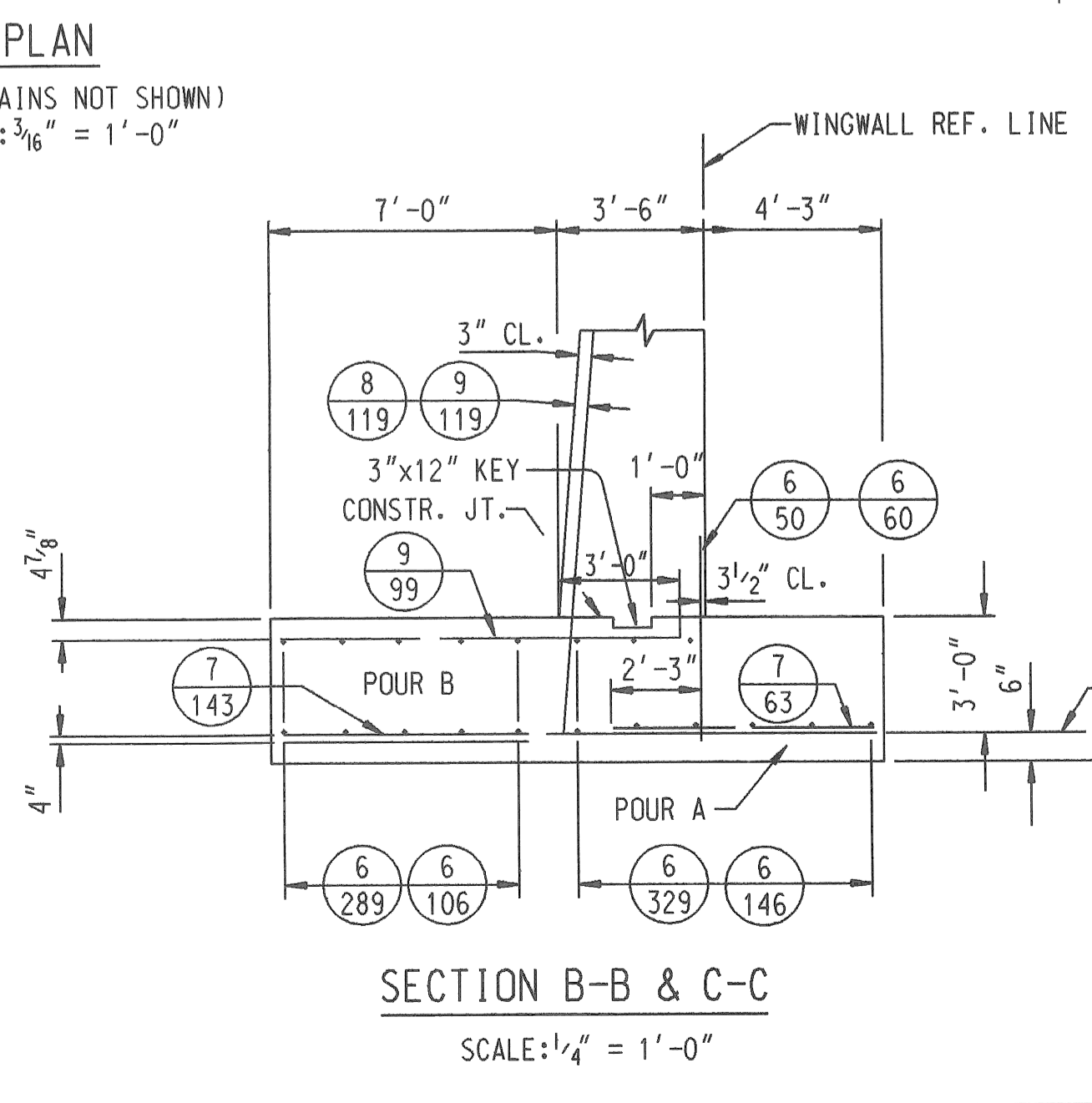
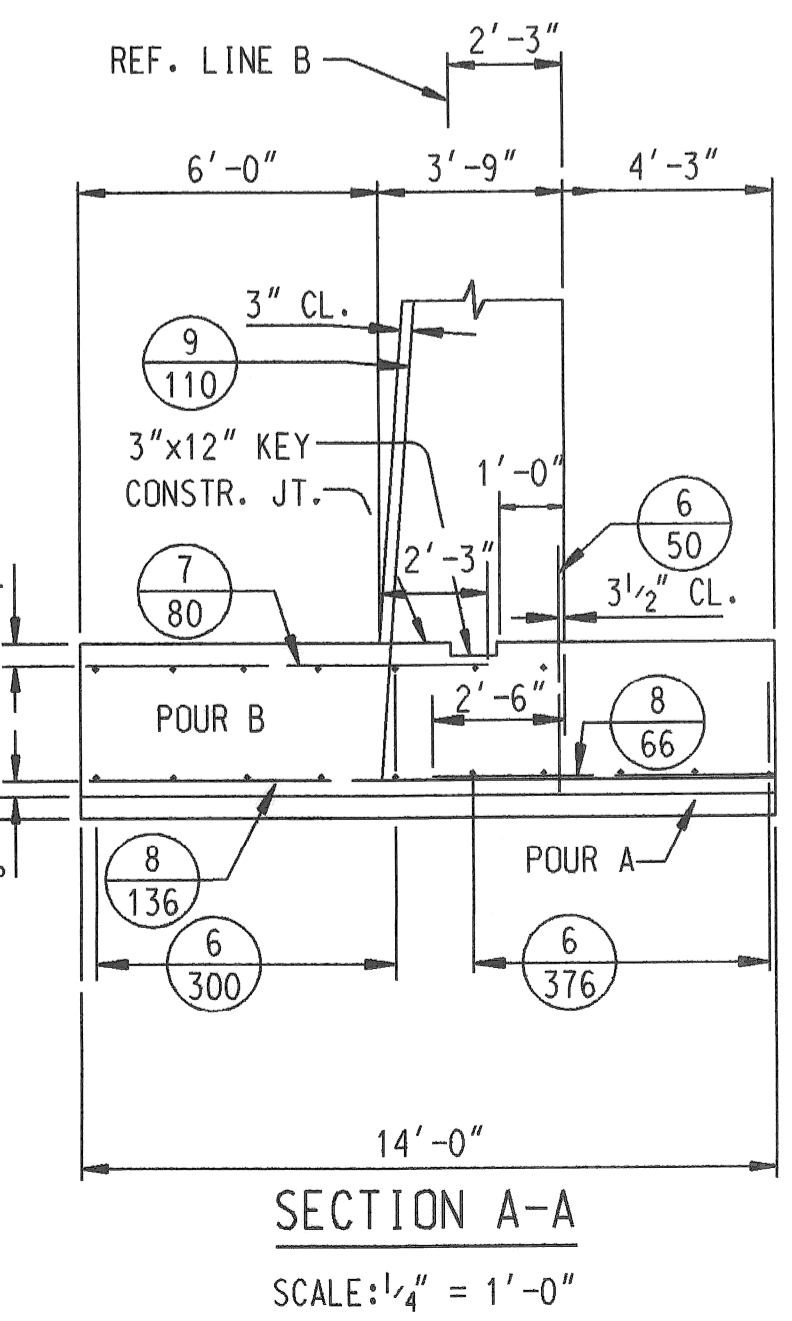
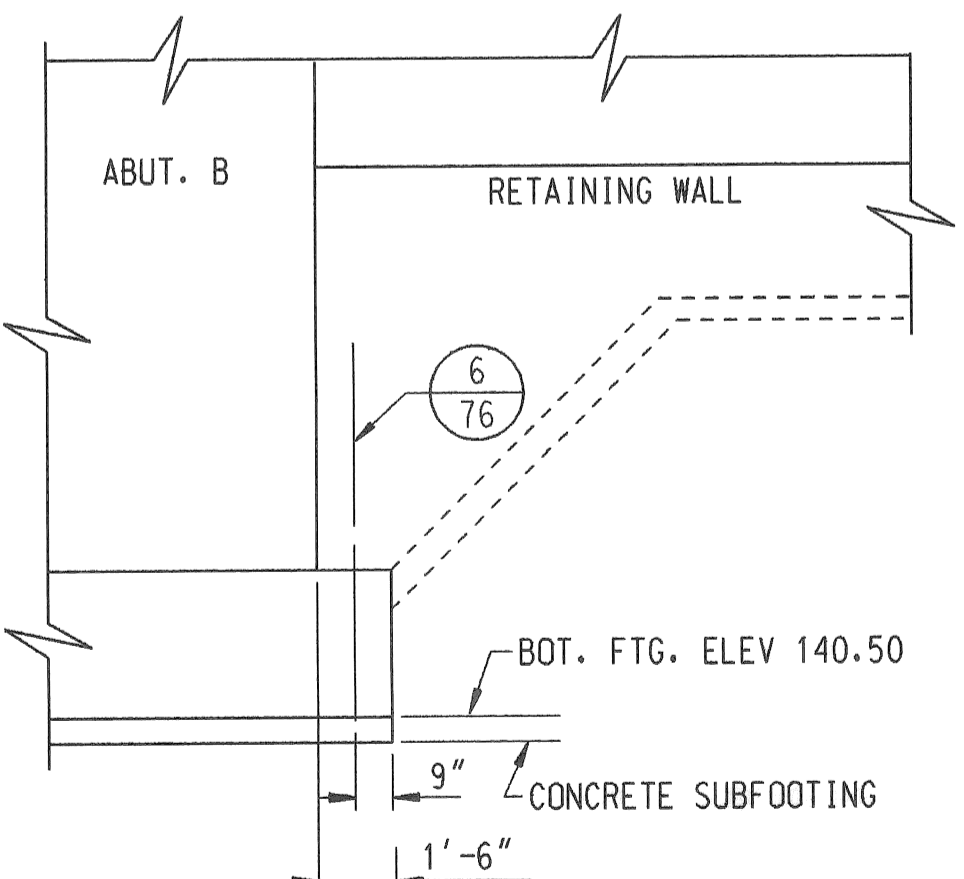
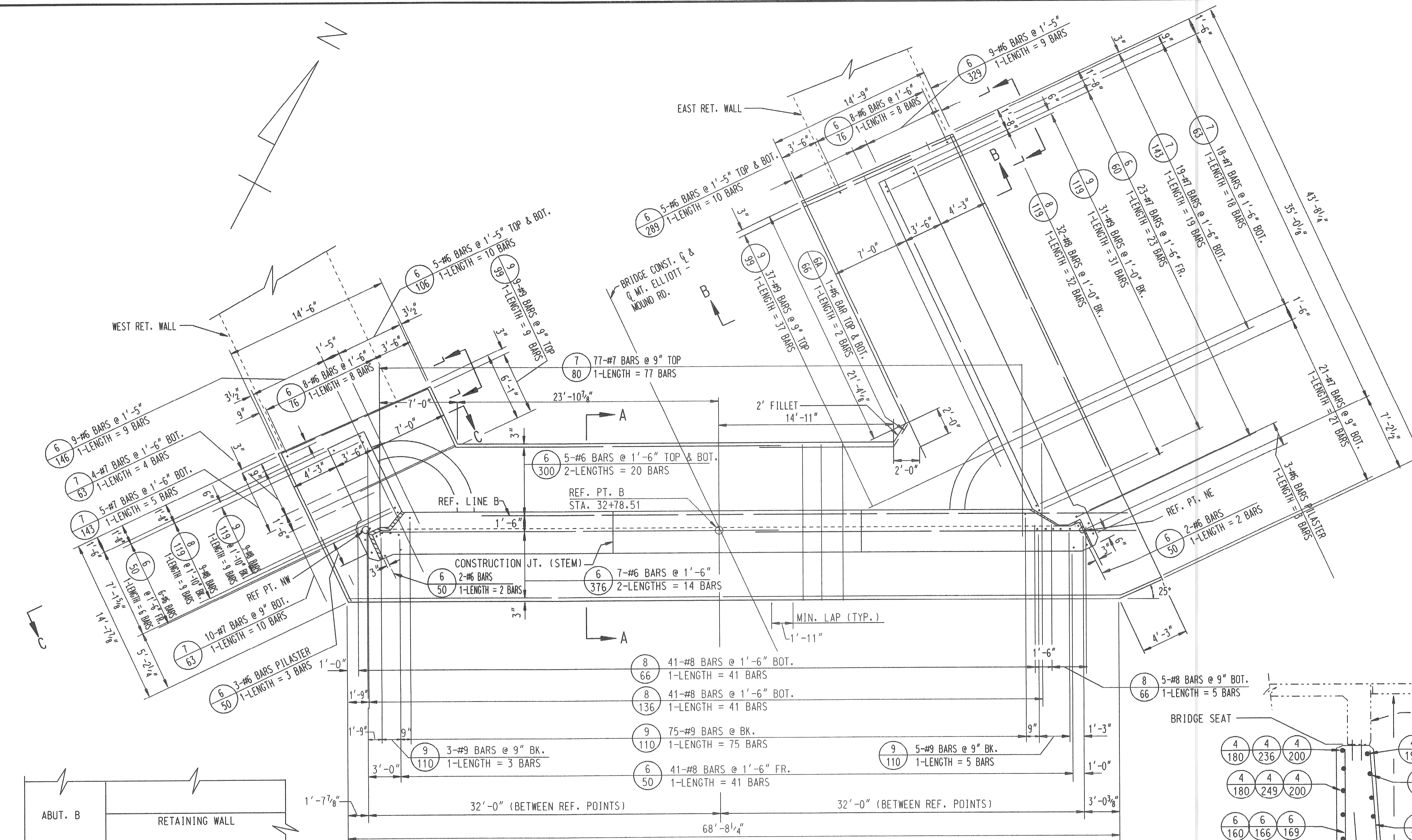
Bridge Seat:
The bridge seat shall be finished in a true plane at the elevation shown and shall not vary more than $\frac{1}{8}$ " under a ten foot straight edge or more than $\frac{1}{16}$ " under any bearing.

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.
$\frac{1}{2}$ " 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.



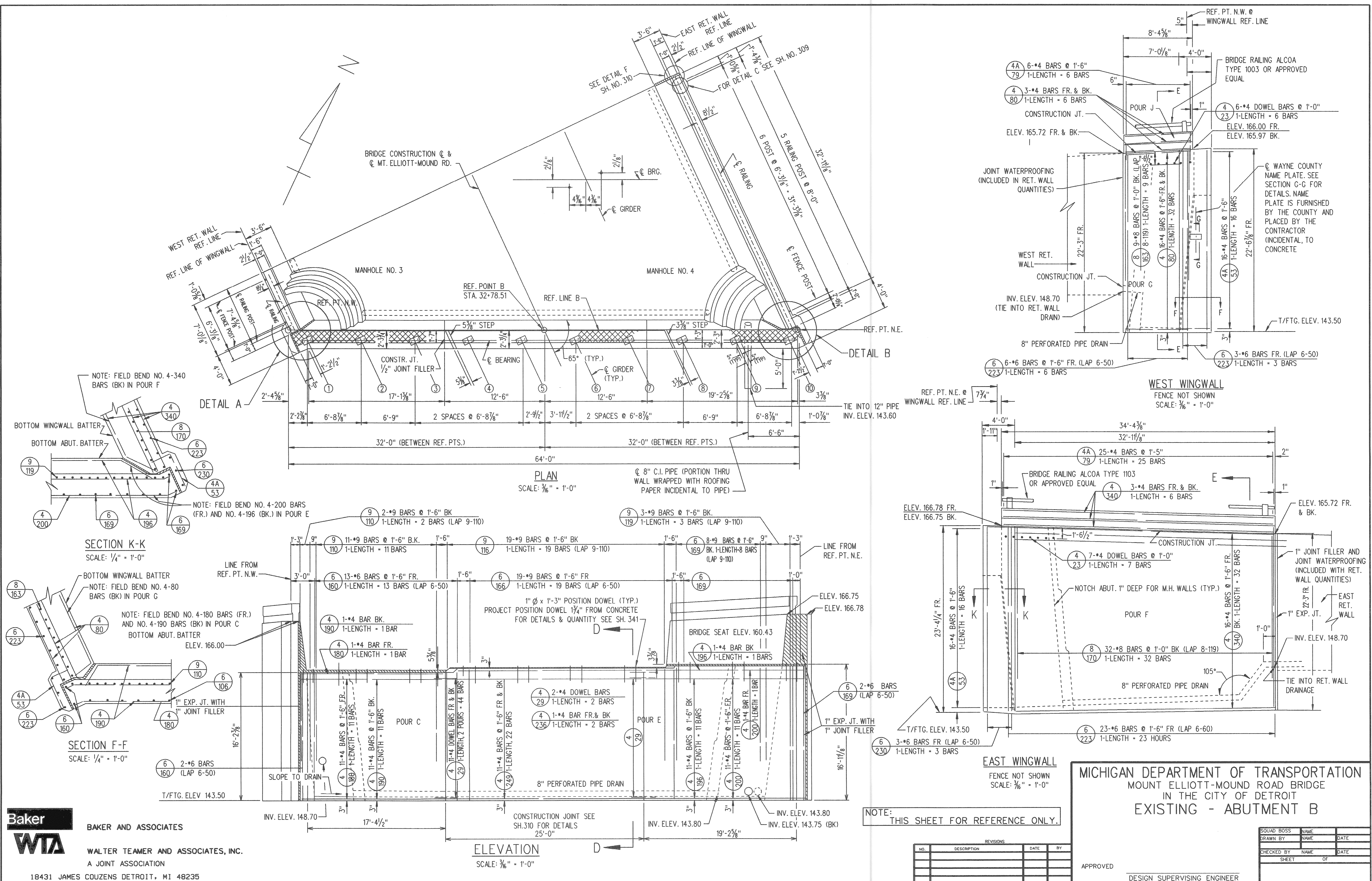
NOTE: THIS SHEET FOR REFERENCE ONLY.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF TRANSPORTATION
MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
EXISTING ABUTMENT B

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

APPROVED _____
DESIGN SUPERVISING ENGINEER



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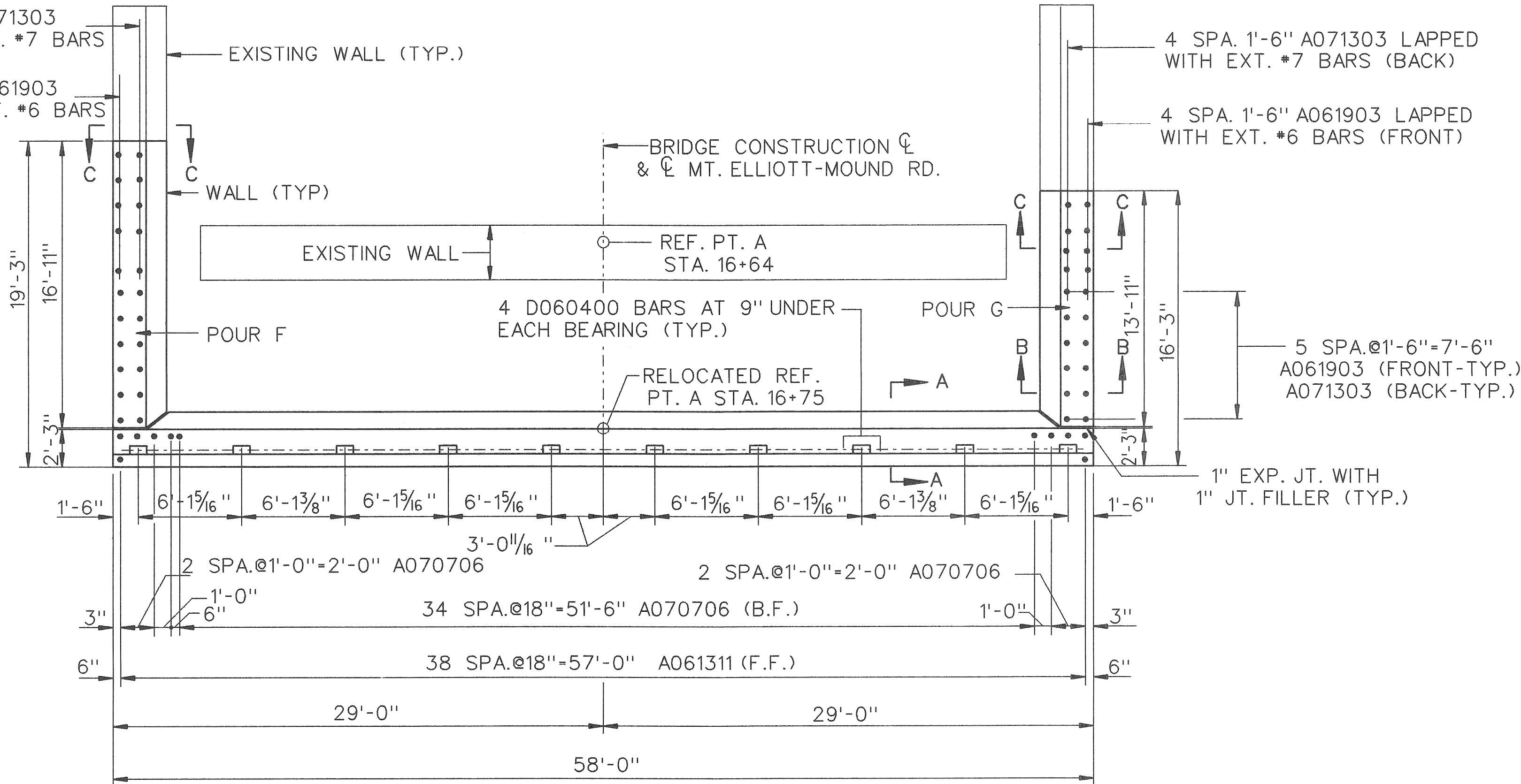
REVISIONS			
NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF TRANSPORTATION
 MOUNT ELLIOTT-MOUND ROAD BRIDGE
 IN THE CITY OF DETROIT
 EXISTING - ABUTMENT B

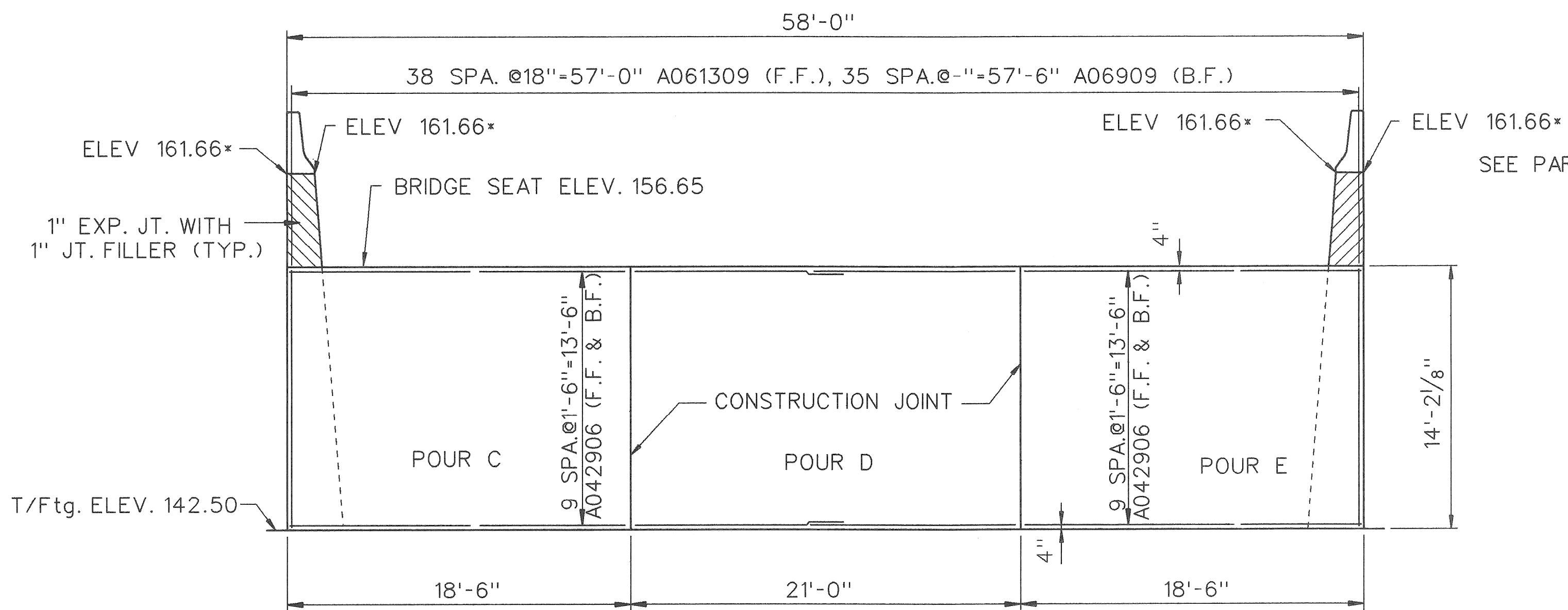
APPROVED _____
 DESIGN SUPERVISING ENGINEER

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

4 SPA. @ 1'-6" A071303
LAPPED WITH EXT. #7 BARS
(BACK)
4 SPA. @ 1'-6" A061903
LAPPED WITH EXT. #6 BARS
(FRONT)



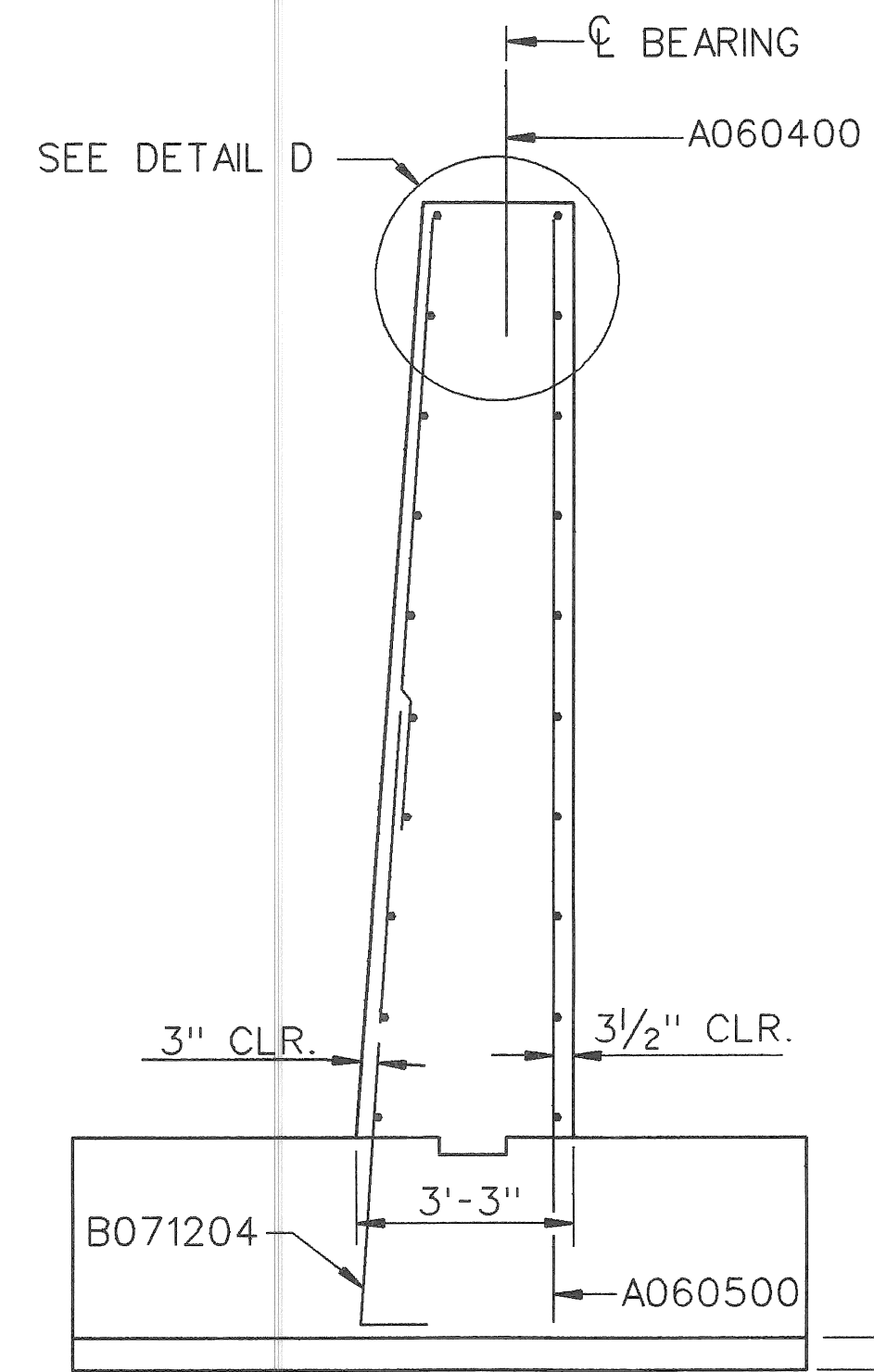
PLAN OF WALL-ABUTMENT A
SCALE: 3/16" = 1'-0"



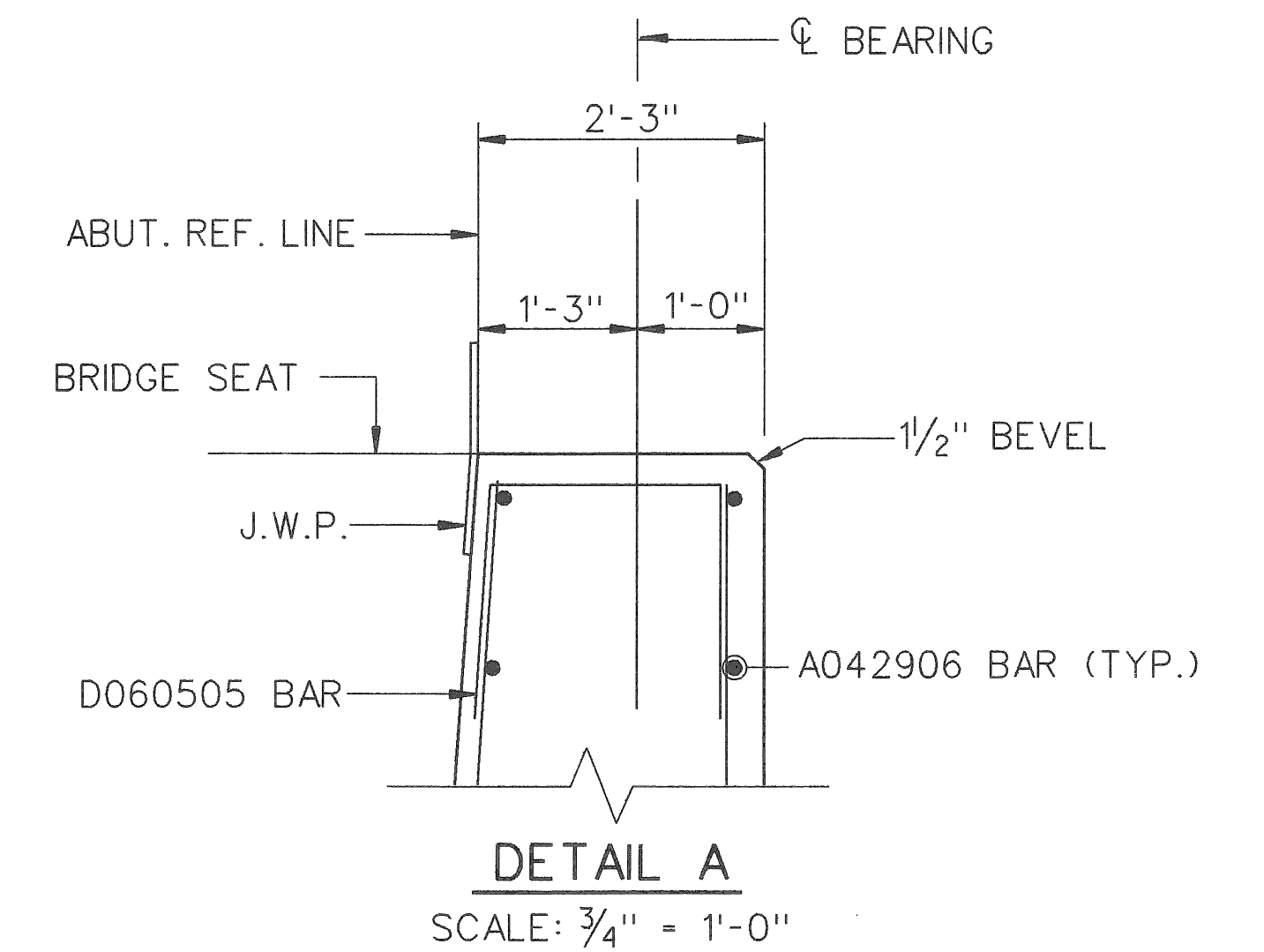
ELEVATION-ABUTMENT A
SCALE: 3/16" = 1'-0"

NOTE: *ELEVATIONS GIVEN ALONG RELOCATED REF. LINE A

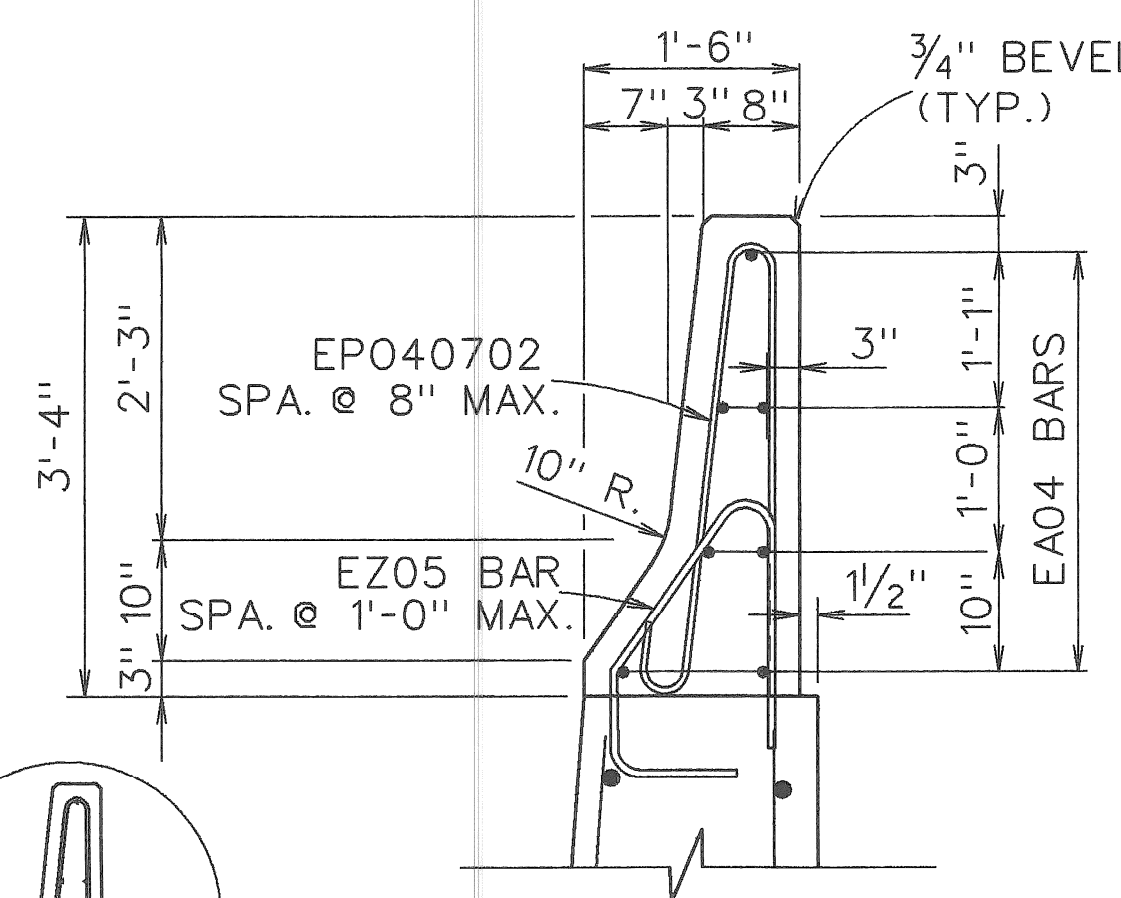
SUBSTRUCTURE CONCRETE QUANTITIES		
POUR	LOCATION	Cu. Yd.
C	ABUT. STEM	26.9
D	ABUT. STEM	30.3
E	ABUT. STEM	26.9
F	W.W. STEM	29.4
G	W.W. STEM	24.2



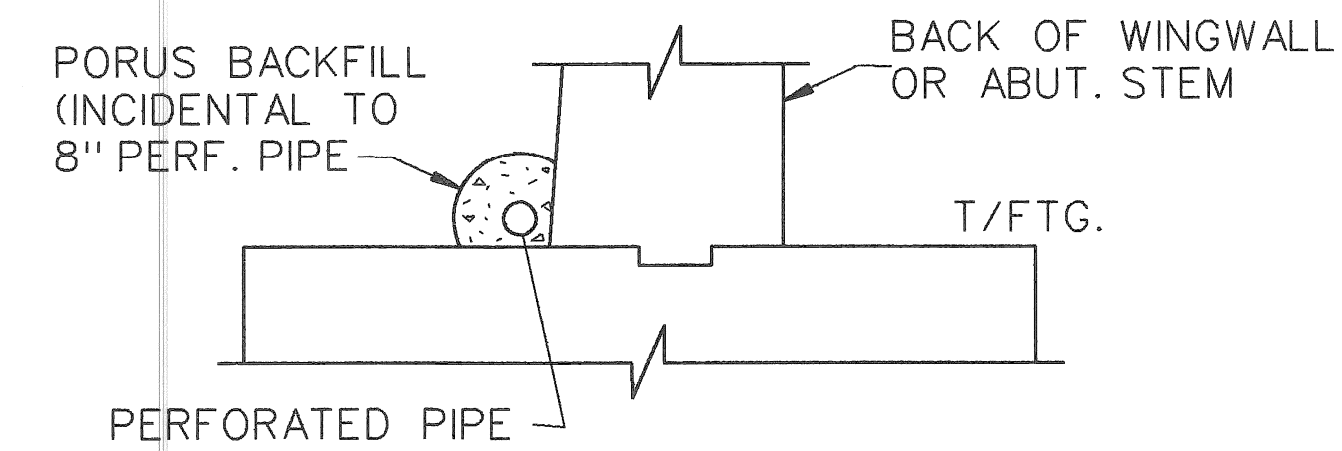
SECTION A-A
SCALE: 3/8" = 1'-0"



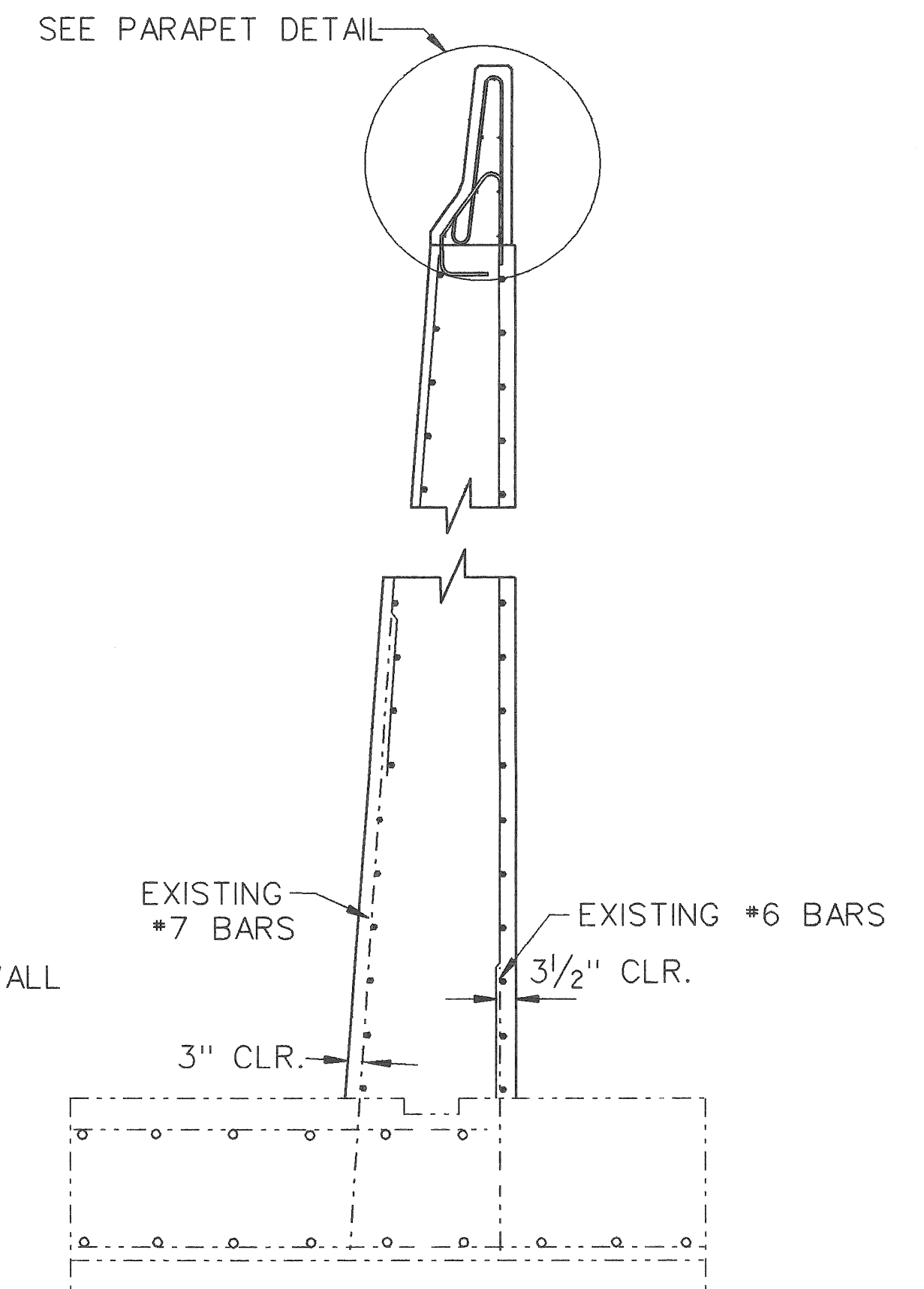
DETAIL A
SCALE: 3/4" = 1'-0"



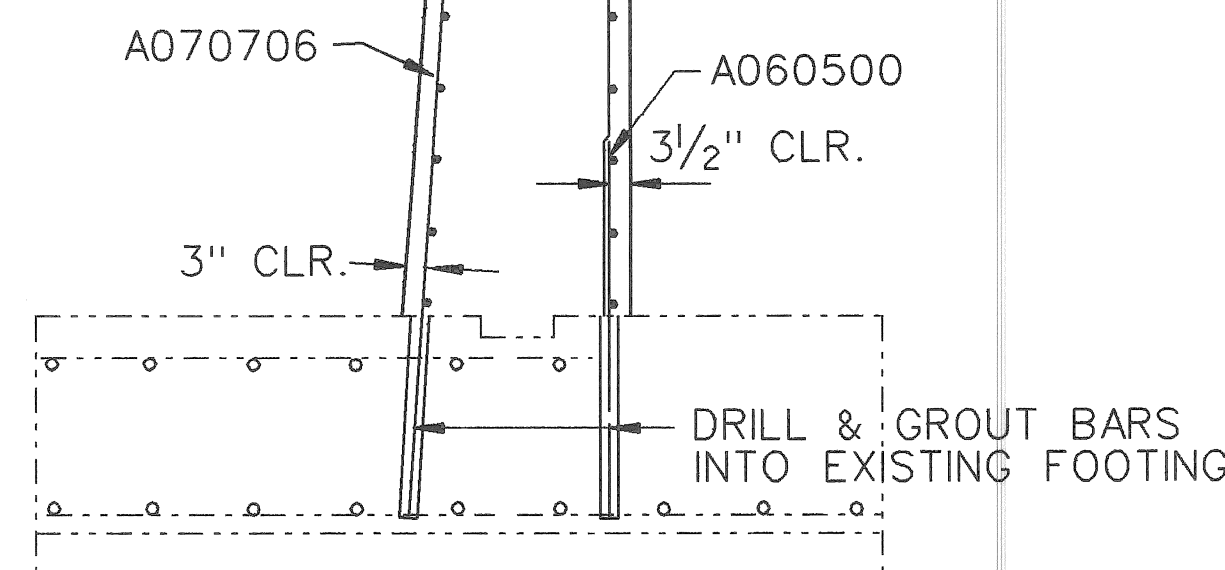
PARAPET DETAIL
SCALE: 3/4" = 1'-0"



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



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



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

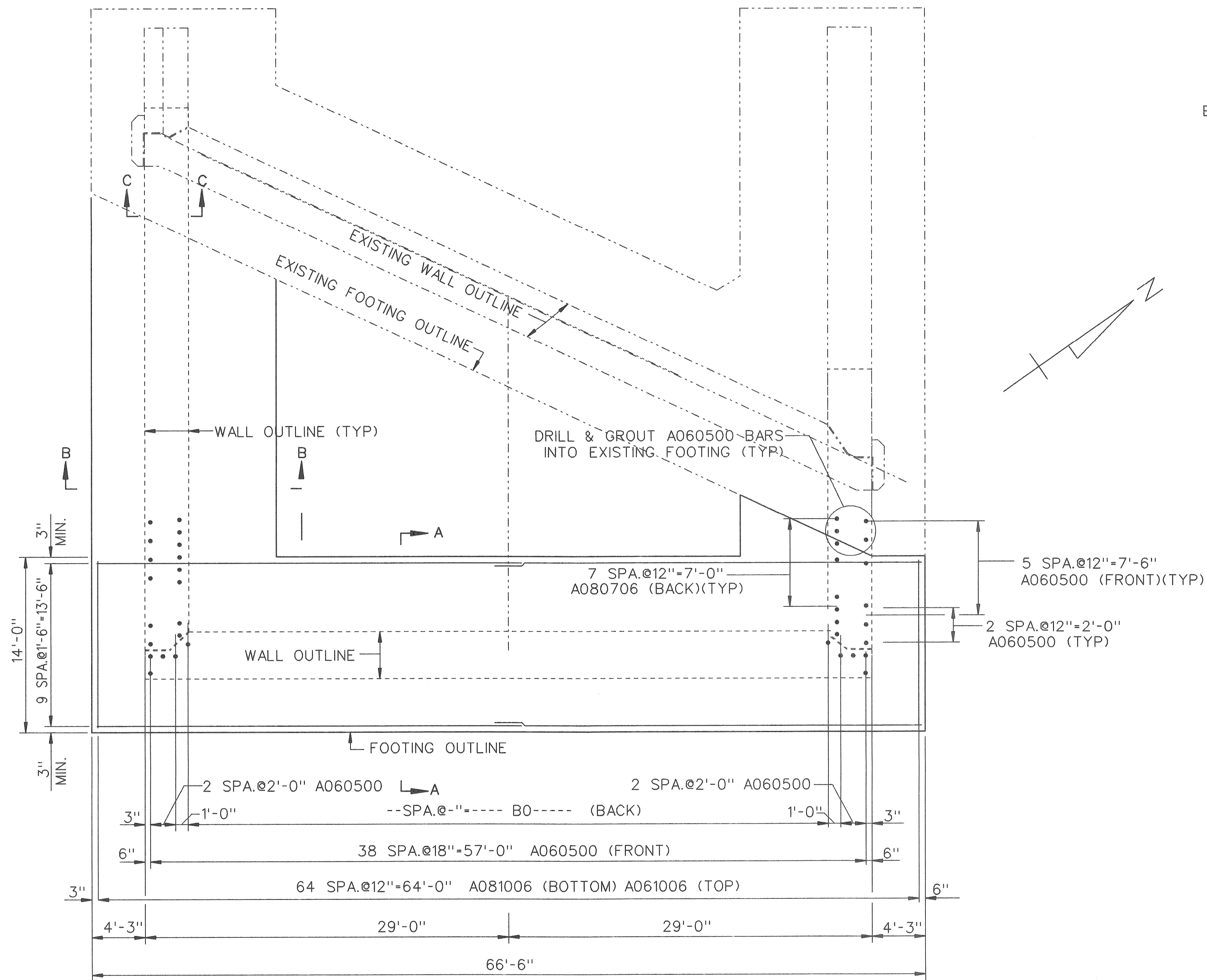
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MICHIGAN DEPARTMENT OF TRANSPORTATION
MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
ABUTMENT DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

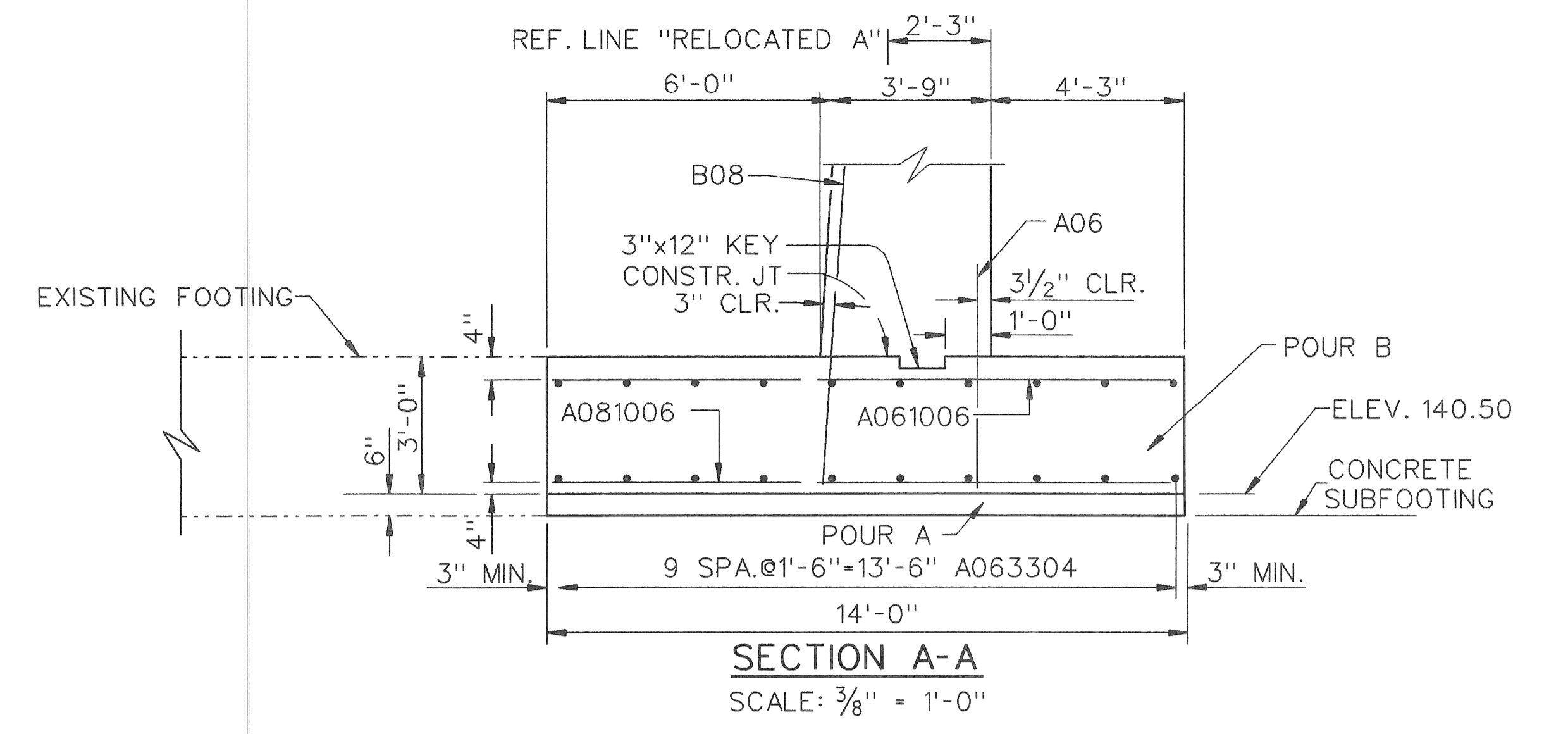
APPROVED	DESIGN SUPERVISING ENGINEER

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

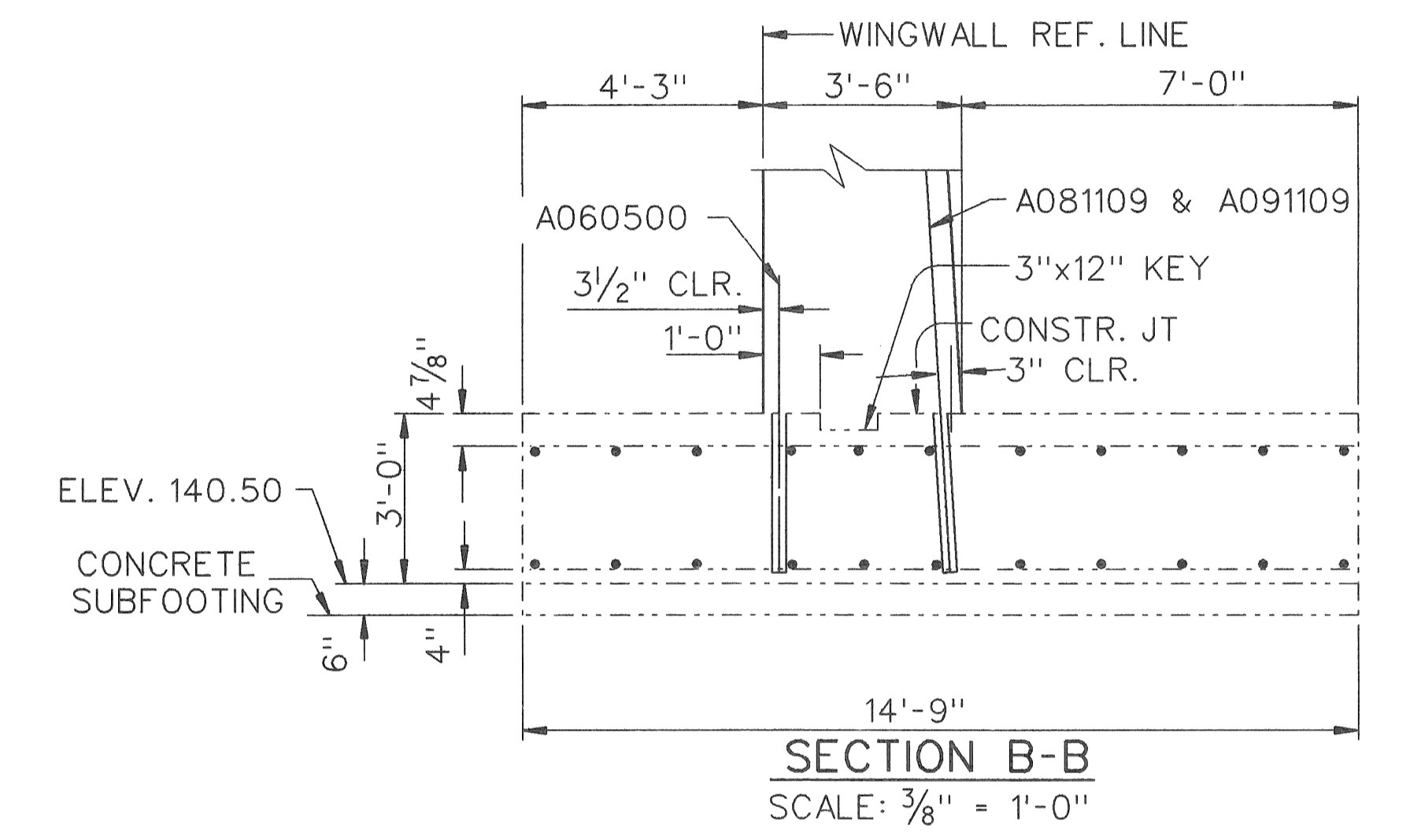


FOOTING PLAN-ABUTMENT B
SCALE: 3/16" = 1'-0"

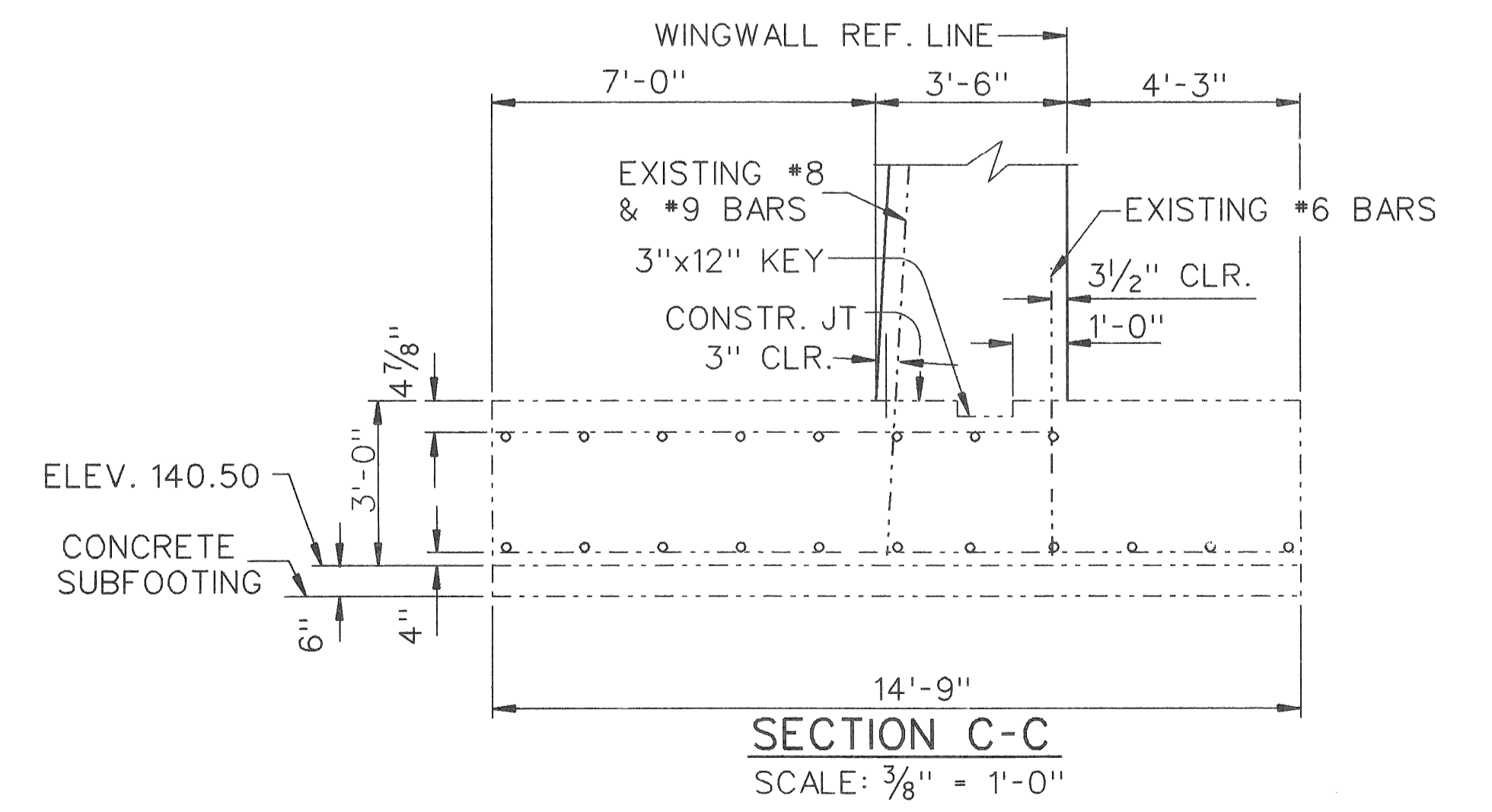
SUBSTRUCTURE CONCRETE QUANTITIES		
POUR	LOCATION	Cu. Yd.
A	SUBFOOTING	24.6
B	FOOTING	147.5



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



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



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

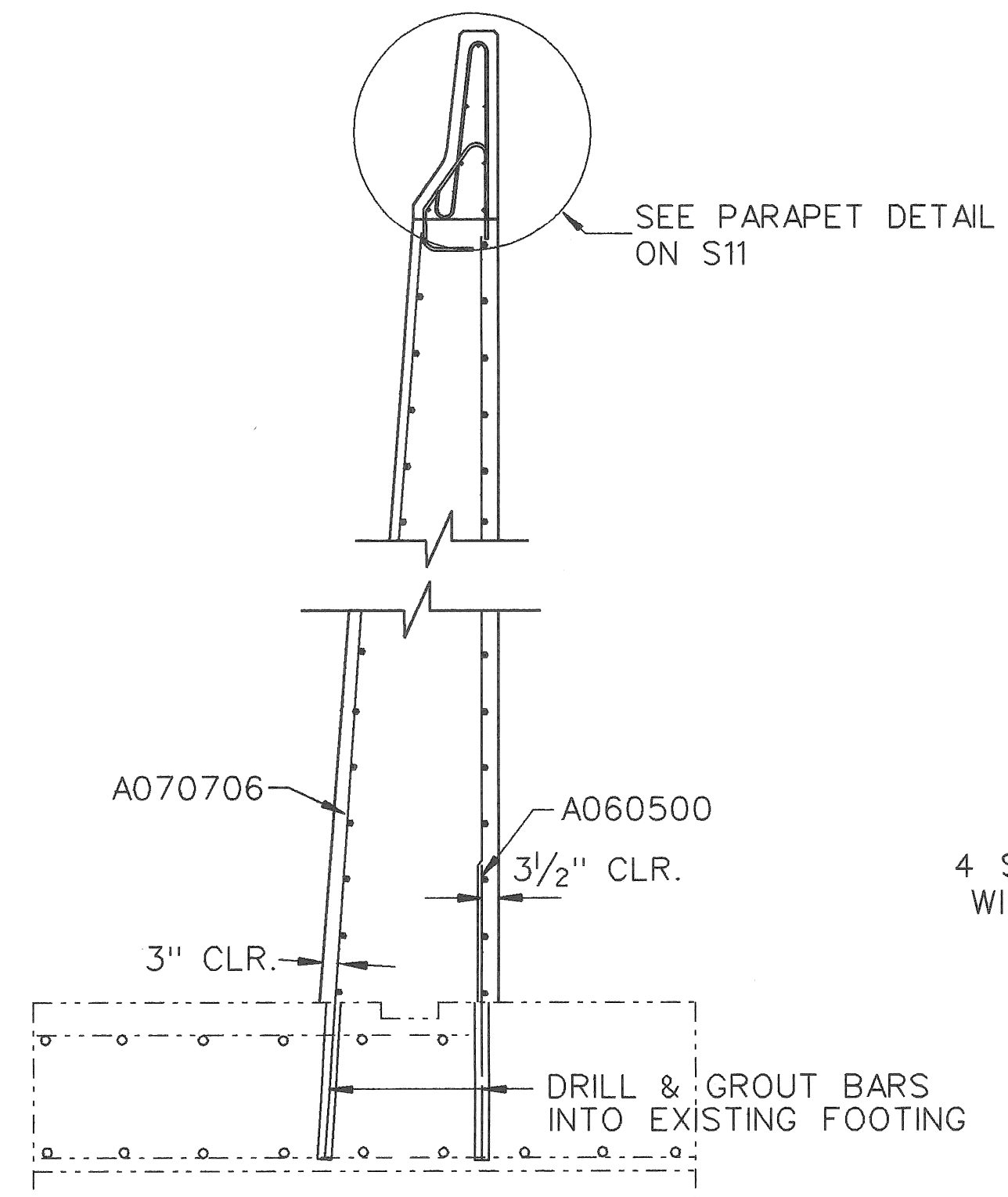
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REVISIONS			
NO.	DESCRIPTION	DATE	BY

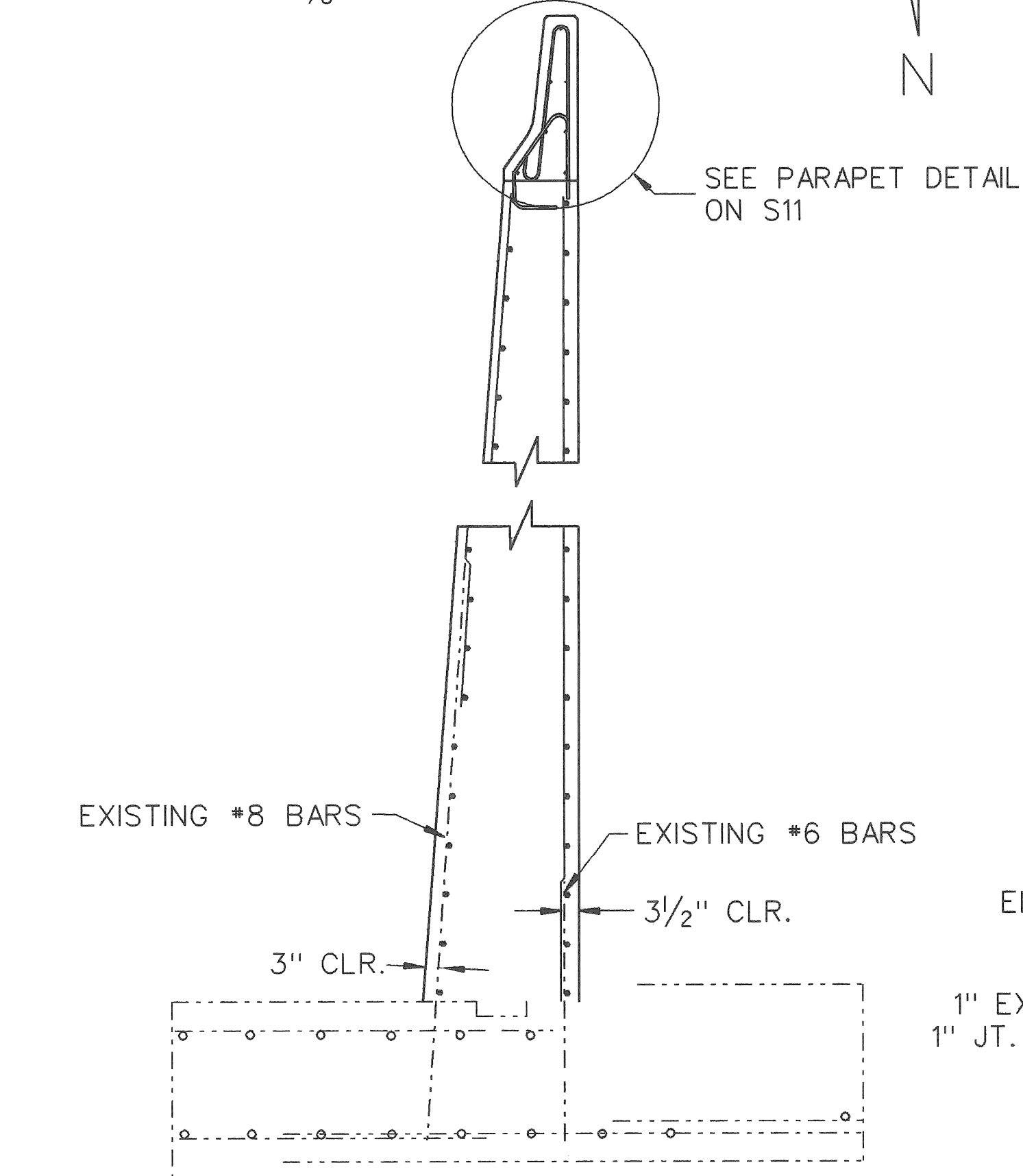
MICHIGAN DEPARTMENT OF TRANSPORTATION
MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
ABUTMENT DETAILS

APPROVED _____
DESIGN SUPERVISING ENGINEER

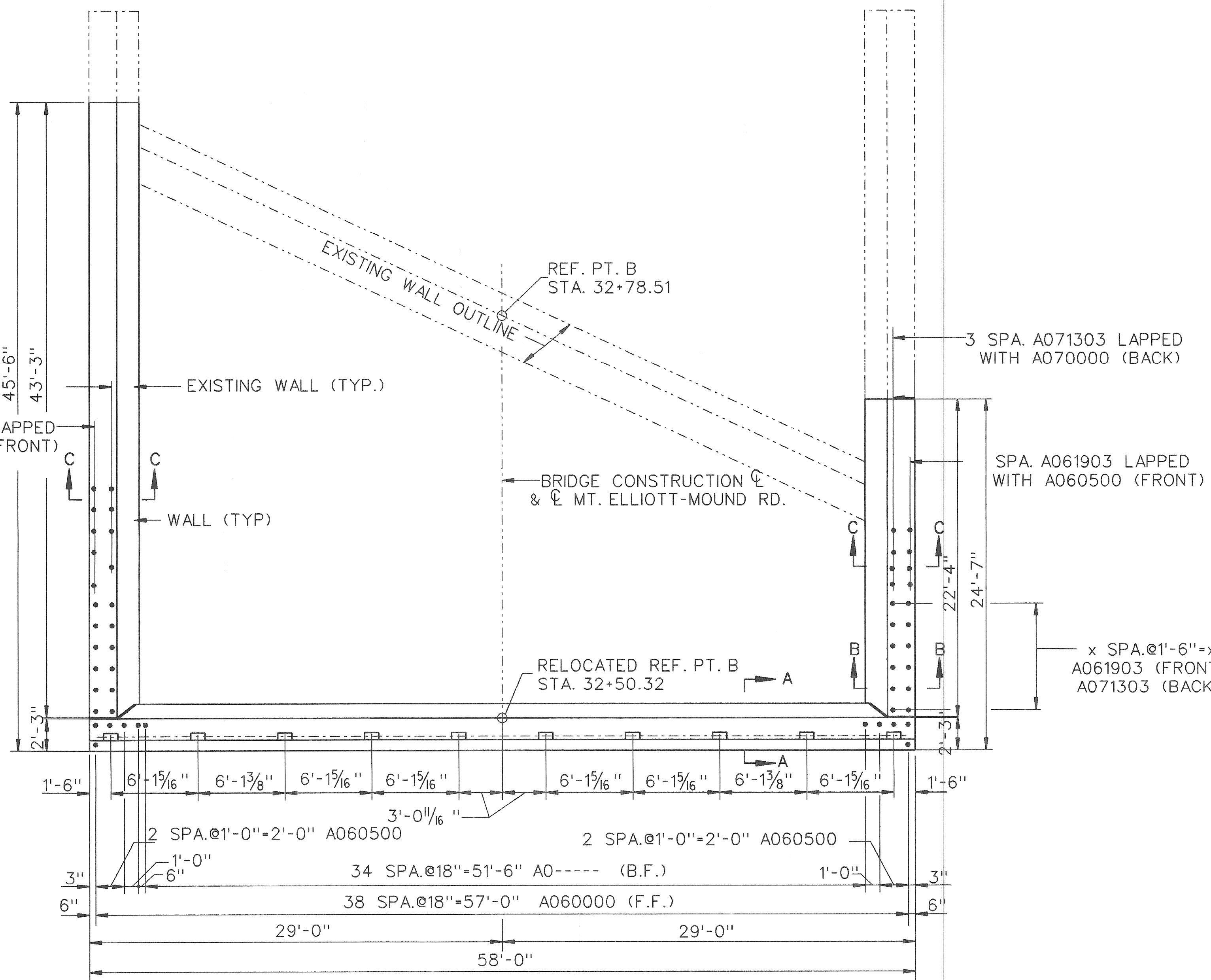
SOLID BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	OF	



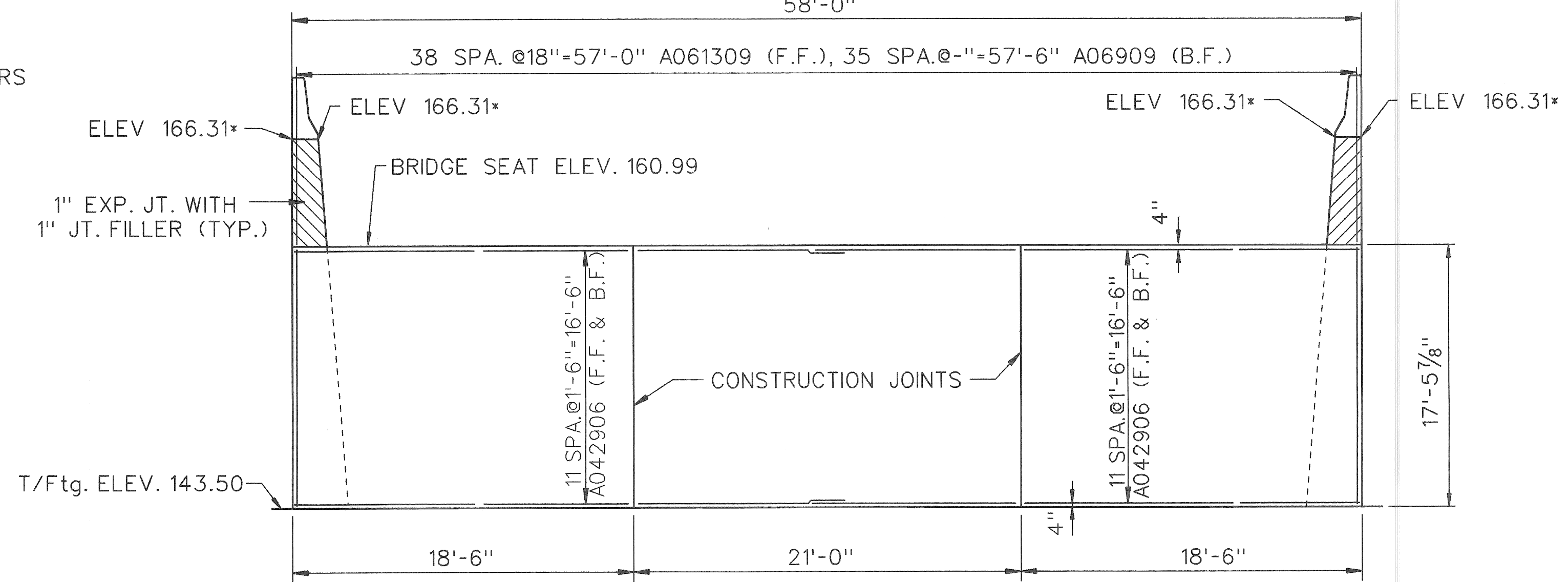
SECTION B-B
SCALE: 3/8" = 1'-0"



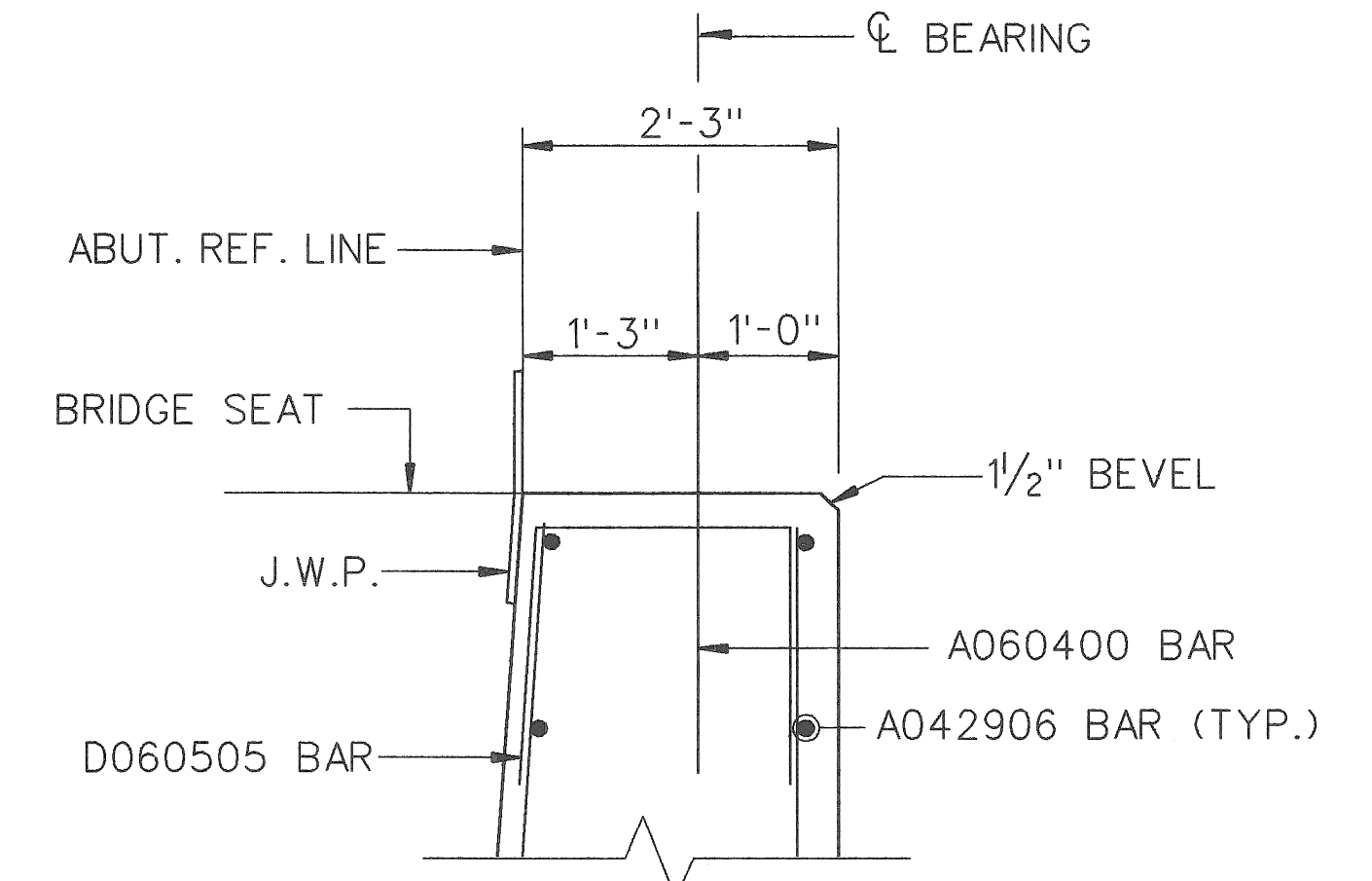
SECTION C-C
SCALE: 3/8" = 1'-0"



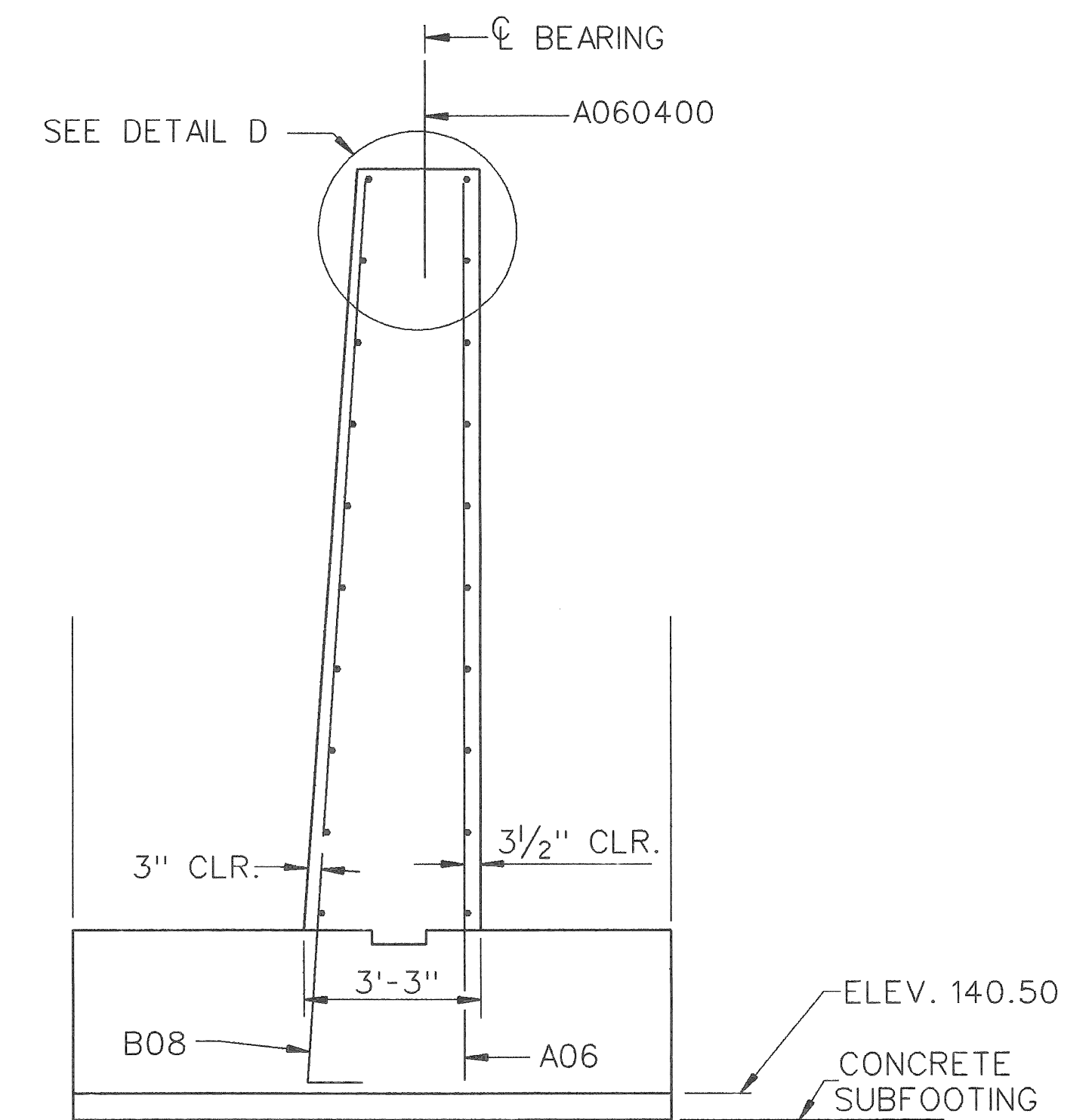
PLAN OF WALL-ABUTMENT B
SCALE: 3/16" = 1'-0"



ELEVATION-ABUTMENT B
SCALE: 3/16" = 1'-0"



DETAIL A
SCALE: 3/4" = 1'-0"



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

SUBSTRUCTURE CONCRETE QUANTITIES		
POUR	LOCATION	Cu. Yd.
C	ABUT. STEM	10.0
D	ABUT. STEM	10.0
E	W.W. STEM	10.0
F	W.W. STEM	10.0

MICHIGAN DEPARTMENT OF TRANSPORTATION
MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
ABUTMENT DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

APPROVED _____
DESIGN SUPERVISING ENGINEER

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

PLATE GIRDER DATA

SPAN	GIRDER NUMBER	GIRDER TYPE	C PIER (A) LOCATIONS	C PIER (B) LOCATIONS	GIRDER DIMENSIONS							FLANGE PLATE SIZE						WEB PL 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						a	b	c	d	e	f	g	h	j	k	
16	A	1 & 10	C PIER 15	REF. LINE B	6"	26'-0"	1'-4 3/16"	5"	4 1/4"	26'-0"	0	12"x3/4"	12"x1/8"	16"x 1"	16"x13/8"	---	---	52"x3/8"	2-7"x3/4"	---	2-4"x3/8"	---	9'-4 3/4"	8@14" = 9'-4"	7@16" = 9'-4"	5@20" = 8'-4"	0	0	27@24" = 54'-0"	9'-4 1/16"	---	---	
	A	2 & 9	do	do	do	27'-0"	do	do	do	27'-0"	0	12"x5/8"	12"x3/4"	16"x 1"	16"x13/8"	---	---	do	do	---	do	---	11'-2 1/16"	9@15" = 11'-3"	6@17" = 8'-6"	5@20" = 8'-4"	0	0	26@24" = 52'-0"	11'-2 3/4"	---	---	
	A	3,4,7, & 8	do	do	do	27'-0"	do	do	do	27'-0"	0	12"x5/8"	12"x3/4"	16"x3/4"	16"x1 1/4"	---	---	do	do	---	do	---	11'-2 1/16"	15@9" = 11'-3"	14@11" = 12'-10"	4@15" = 5'-0"	6@18" = 9'-0"	4@21" = 7'-0"	9@24" = 18'-0"	11'-2 3/4"	---	---	
	A	5 & 6	C PIER 15	REF. LINE B	6"	24'-0"	1'-4 3/16"	5"	4 1/4"	24'-0"	0	12"x5/8"	12"x3/4"	16"x 1"	16"x1 1/2"	---	---	52"x3/8"	2-7"x3/4"	---	2-4"x3/8"	---	11'-10 1/16"	13@11" = 11'-11"	7@14" = 8'-2"	8@16" = 10'-8"	5@20" = 8'-4"	0	15@24" = 30'-0"	11'-10 3/4"	---	---	

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

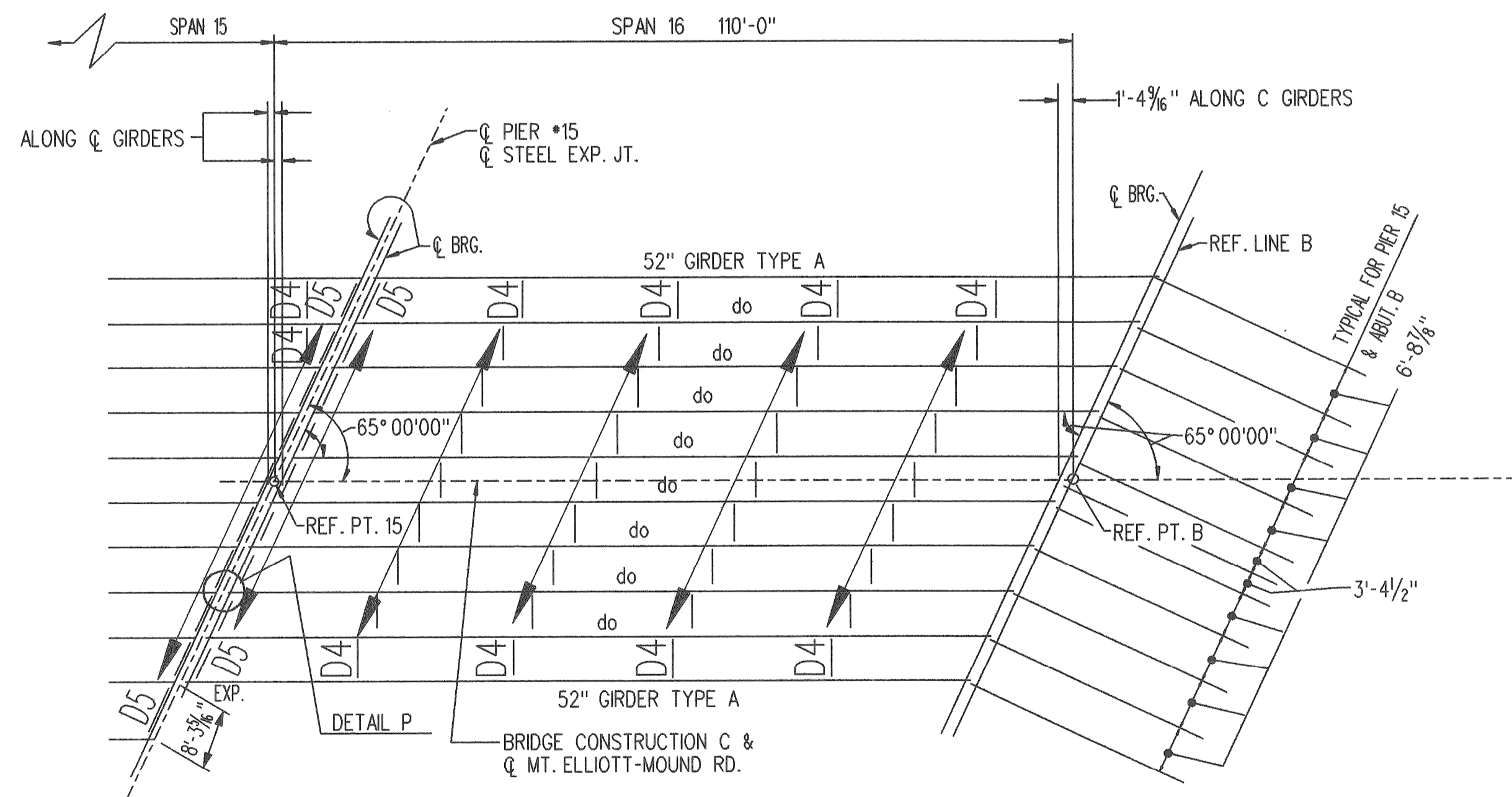
GIRDER	SPAN 16
1	2 1/8" 4 2 7/8"
2	2 5/8" 3 5/8" 2 5/8"
3	2 5/8" 3 5/8" 2 5/8"
4	2 5/8" 3 5/8" 2 5/8"
5	2 5/8" 3 5/8" 2 5/8"
6	2 5/8" 3 5/8" 2 5/8"
7	2 5/8" 3 5/8" 2 5/8"
8	2 5/8" 3 5/8" 2 5/8"
9	2 5/8" 3 5/8" 2 5/8"
10	2 5/8" 4 2 7/8"
11	---

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

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		
16	1 & 10	A	12'-2 5/16"	21 @ 7" = 12'-3"	3 1/2"	16 @ 9 1/2" = 12'-8"	4 3/4"	7 @ 12" = 7'-0"	6"	10 @ 16" = 13'-4"	0	0	0	0	8"	16 @ 16" = 21'-4"	12'-3"	---	---	---	---	---	---	---	
	2 & 9	A	12'-5 1/16"	20 @ 7 1/2" = 12'-6"	3 3/4"	15 @ 9" = 11'-3"	4 1/2"	9 @ 11" = 8'-3"	5 1/2"	9 @ 13" = 9'-9"	6 1/2"	8 @ 16" = 10'-8"	0	0	8"	6 @ 16" = 8'-0"	12'-6"	---	---	---	---	---	---	---	
	3,4,7 & 8	A	8'-8 1/16"	21 @ 5" = 8'-9"	2 1/2"	18 @ 6" = 9'-0"	3"	15 @ 7" = 8'-9"	3 1/2"	10 @ 8" = 6'-8"	4"	12 @ 9" = 9'-0"	4 1/2"	8 @ 11" = 7'-4"	5 1/2"	12 @ 13" = 13'-0"	8'-8 3/4"	---	---	---	---	---	---	---	
	5 & 6	A	9'-7 3/16"	21 @ 5 1/2" = 9'-7 1/2"	2 3/4"	20 @ 6 1/2" = 10'-10"	3 1/4"	15 @ 8" = 10'-0"	4"	11 @ 10" = 9'-2"	5"	7 @ 13" = 7'-7"	0	0	6 1/2"	13 @ 16" = 17'-4"	9'-7 1/4"	---	---	---	---	---	---	---	

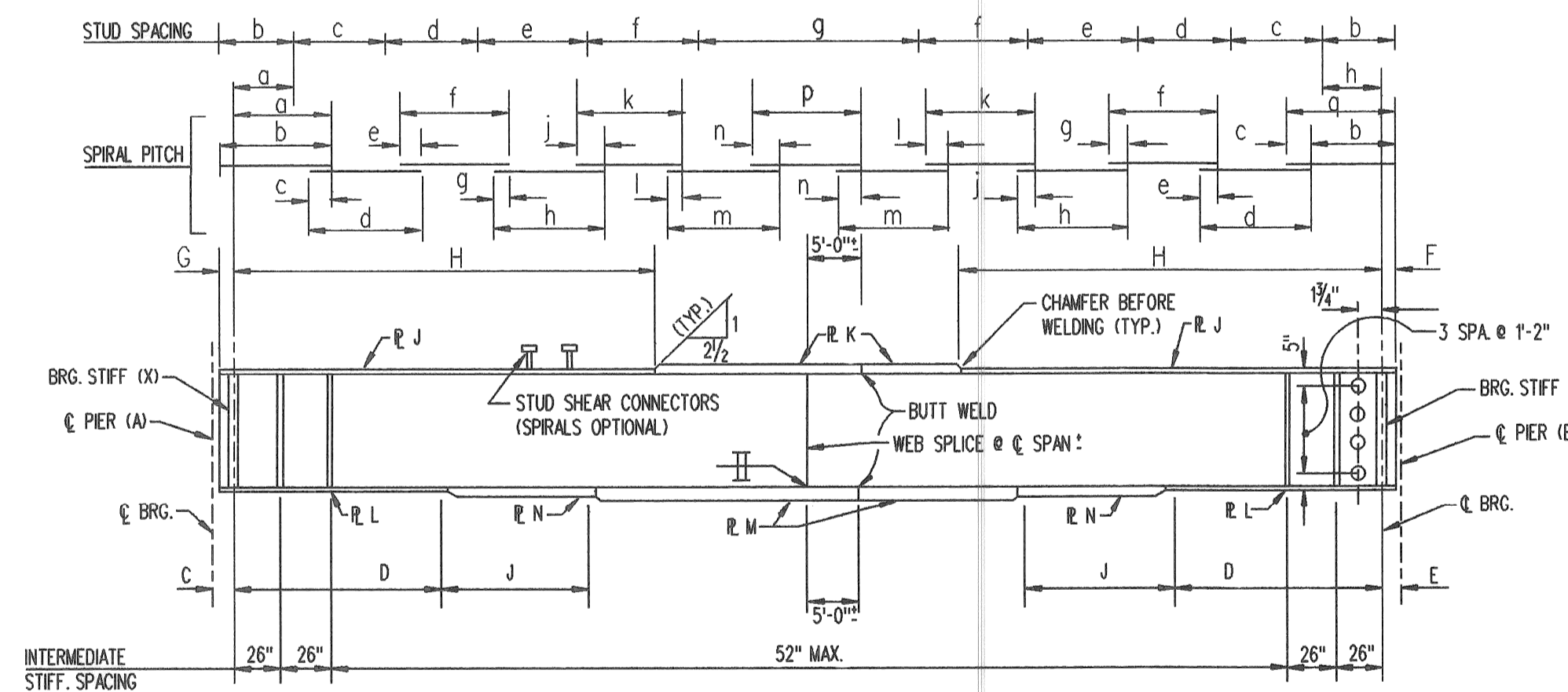
NOTE: DIMENSIONS ARE ALONG C GIRDERS



PLAN - SPANS 16

NOTE: GIRDER SPACING CENTER TO CENTER ARE MEASURED ALONG C PIER OR C HINGE

NOTES:
GIRDERS 1 TO THROUGH 10 OF SPAN 16 TO BE SHORTENED AS SHOWN IN "TABLE OF GIRDER LENGTH CUTOFFS".
GIRDERS TO BE CUT IN FIELD AND NEW HOLES TO BE CUT THROUGH WEB.
NEW BEARING STIFFENERS 2-7"x3/4"x52" TO BE WELDED IN NEW BEARING LOCATION.



TYPE A
SPAN 16

TABLE OF GIRDER LENGTH CUTOFFS

GIRDER	SPAN 16 LENGTH
1	41'-0 1/8"
2	38'-1 1/8"
3	35'-3 3/4"
4	32'-5 5/8"
5	29'-7 3/8"
6	26'-9 1/8"
7	23'-10 3/8"
8	21'-0 3/4"
9	18'-2 5/8"
10	15'-4 3/8"

TABLE OF DEFLECTIONS DUE TO WEIGHT OF GIRDERS - INCHES

GIRDER	SPAN 16
1	9/16" 3/4"
2	5/8" 7/8"
3	5/8" 9/8"
4	5/8" 1 1/8"
5	5/8" 1 1/8"
6	5/8" 1 1/8"
7	5/8" 1 1/8"
8	5/8" 1 1/8"
9	5/8" 1 1/8"
10	5/8" 1 1/8"
11	---

NOTE (-) DENOTES UPWARD DEFLECTION

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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

GENERAL NOTES

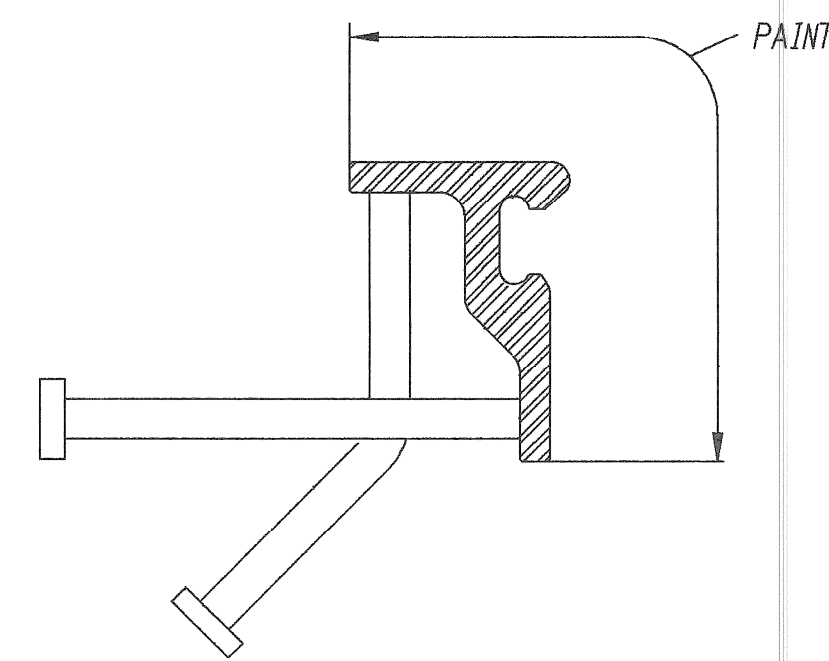
FRAME RAILS TO BE ASTM A-588 OR A-36.
 MINIMUM WEIGHT PER FOOT = 9.0
 ALL STUD ANCHORS TO BE ASTM-A108 STEEL.
 ALL STUD ANCHORS TO BE ELECTRIC ARC END-WELDED w/ COMPLETE FUSION.
 EXPANSION JOINTS TO FOLLOW RDWY. SLOPE.
 NEOPRENE SEAL TO BE CONTINUOUS.

THE STRIP SEAL JOINT MAY BE USED FOR MOVEMENTS OF 4" OR LESS.
 FRAME RAIL ASSEMBLY SHALL BE FABRICATED IN 20' MAXIMUM LENGTHS. FIELD SPLICES TO BE PLACED AT CROWN BREAKS, PHASE CONSTRUCTION, AND TRANSVERSE BREAKS IN DECK.
 NEOPRENE SEAL TO BE CONTINUOUS; FACTORY VULCANIZED HORIZONTAL MITERS SHALL BE REQUIRED ON SKEWS GREATER THAN 35°.

ALL ASSEMBLIES TO BE PIECE-MARKED.
 JOINT OPENINGS SHALL BE ADJUSTED IN ACCORDANCE WITH FIELD ENGINEER'S INSTRUCTIONS
 REMOVE ALL BURRS WHICH MAY BE IN CONTACT WITH THE SEAL PRIOR TO MAKING SPLICE.

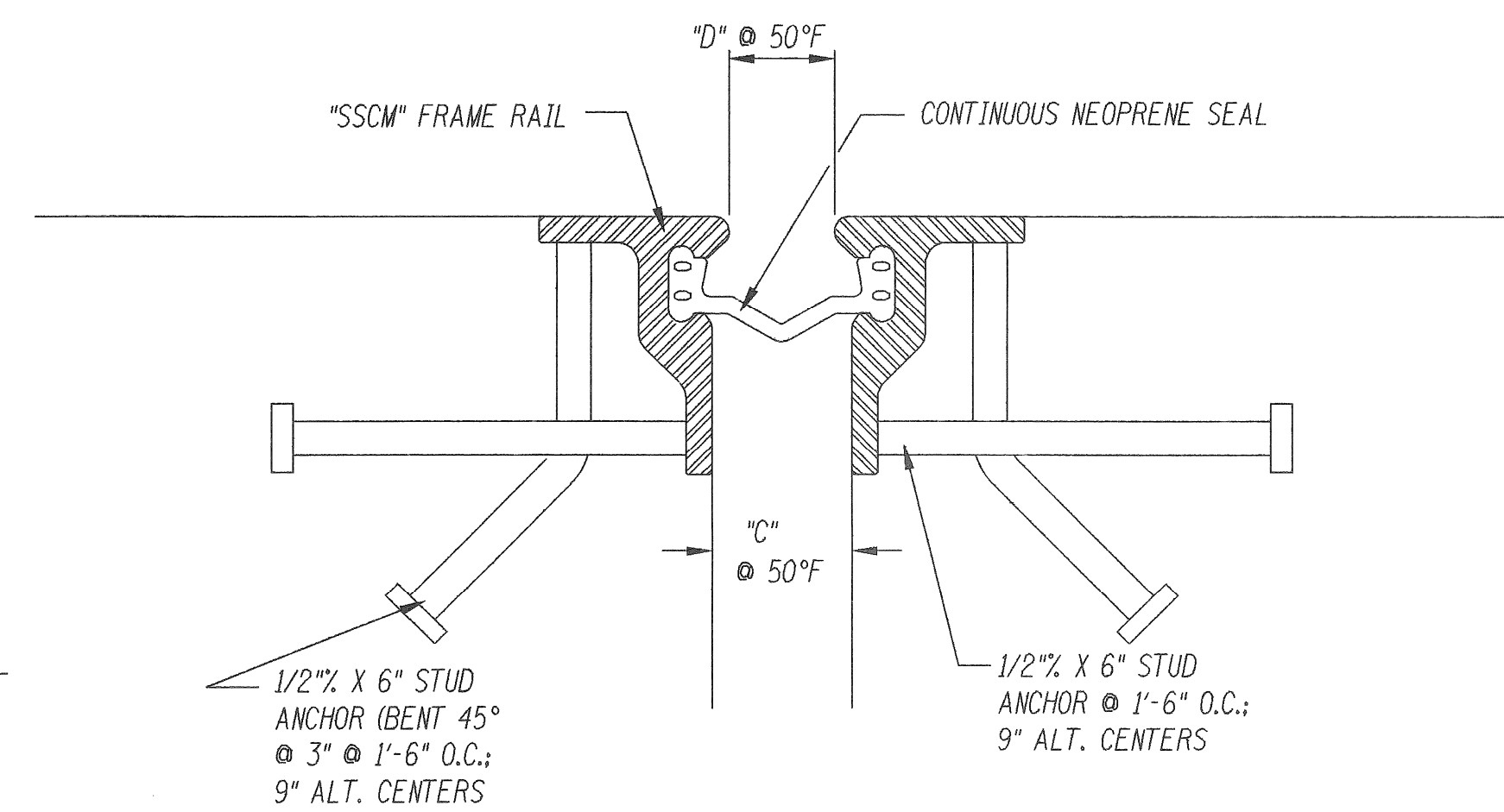
INSTALLATION NOTES

EXPANSION JOINTS TO BE SET TO GRADE BY ATTACHING THE JOINT TO FORMWORK.
 CONTRACTOR TO FORM JOINT OPENING AS PRESCRIBED BY THE FIELD ENGINEER.
 CONTRACTOR TO REMOVE TEMPORARY BOLTS AFTER JOINT IS ANCHORED.

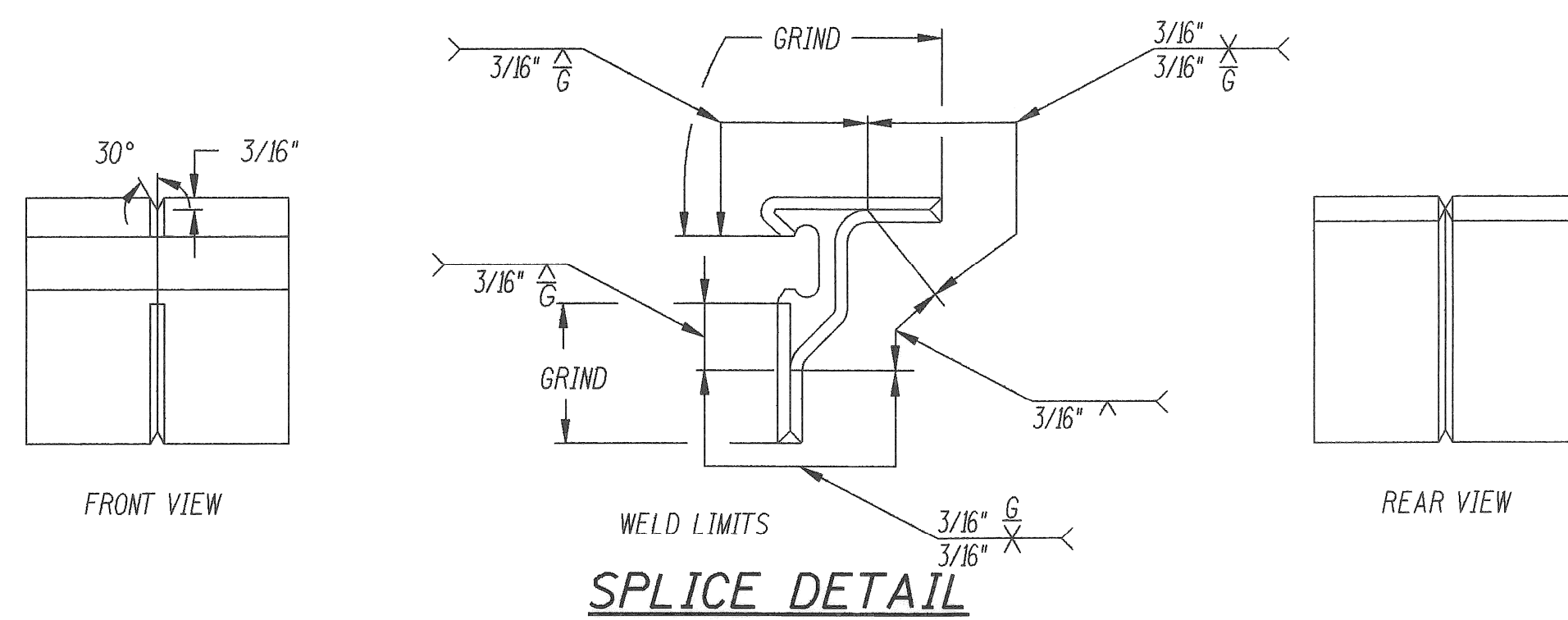


PAINT LIMITS

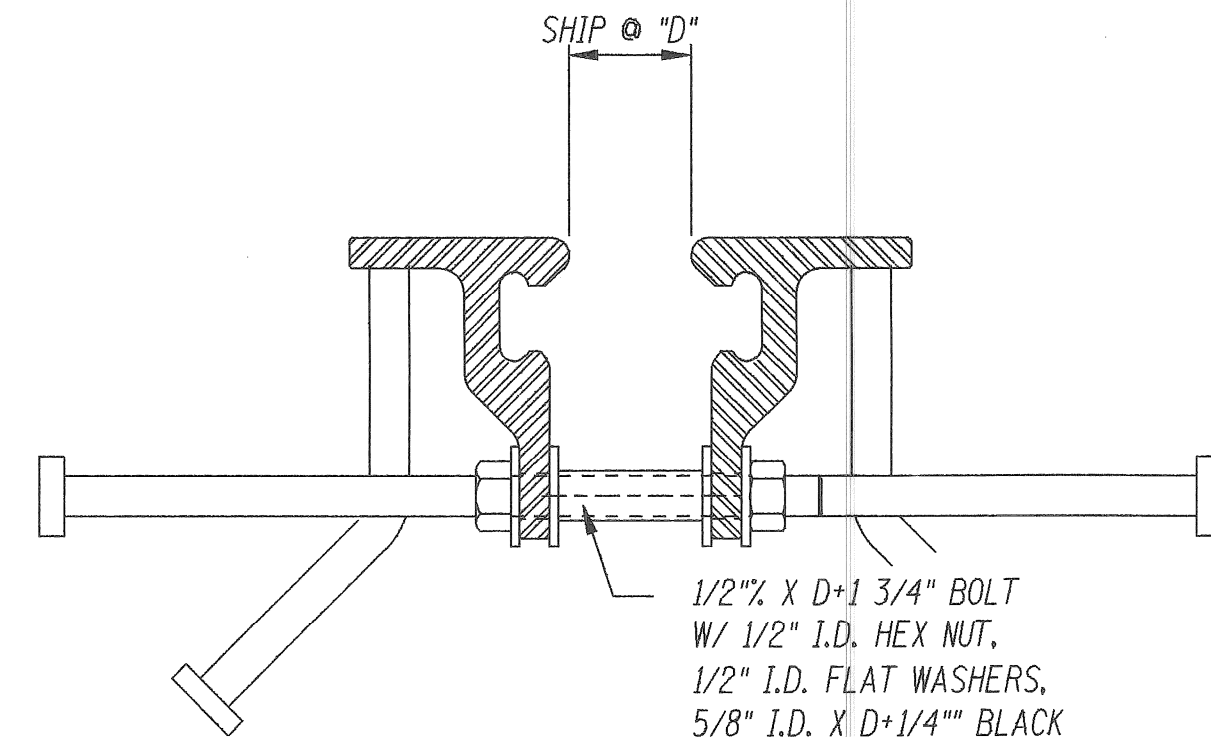
1 COAT @ 3 MILS OF INORGANIC ZINC RICH PAINT



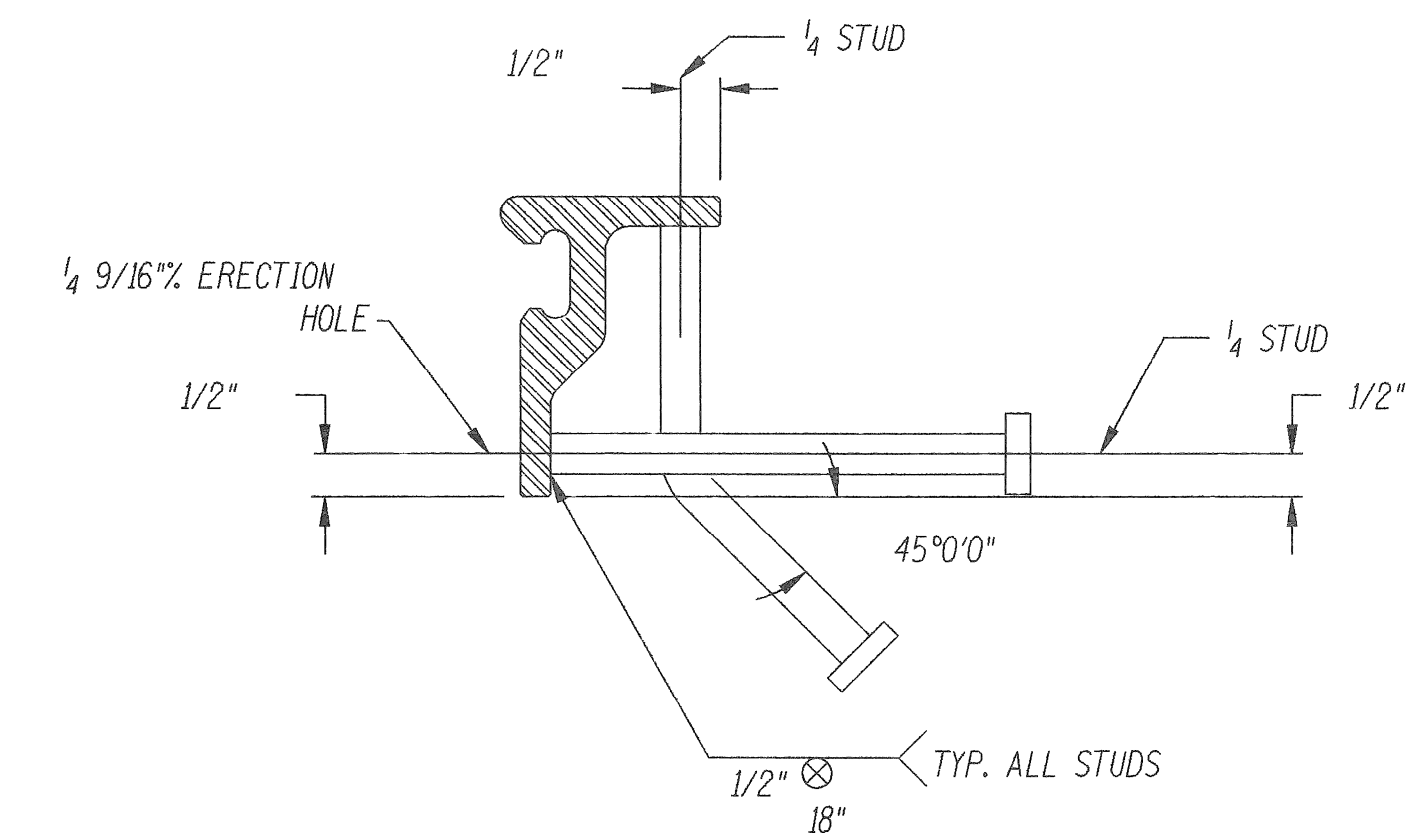
SECTION THRU EXPANSION JOINT



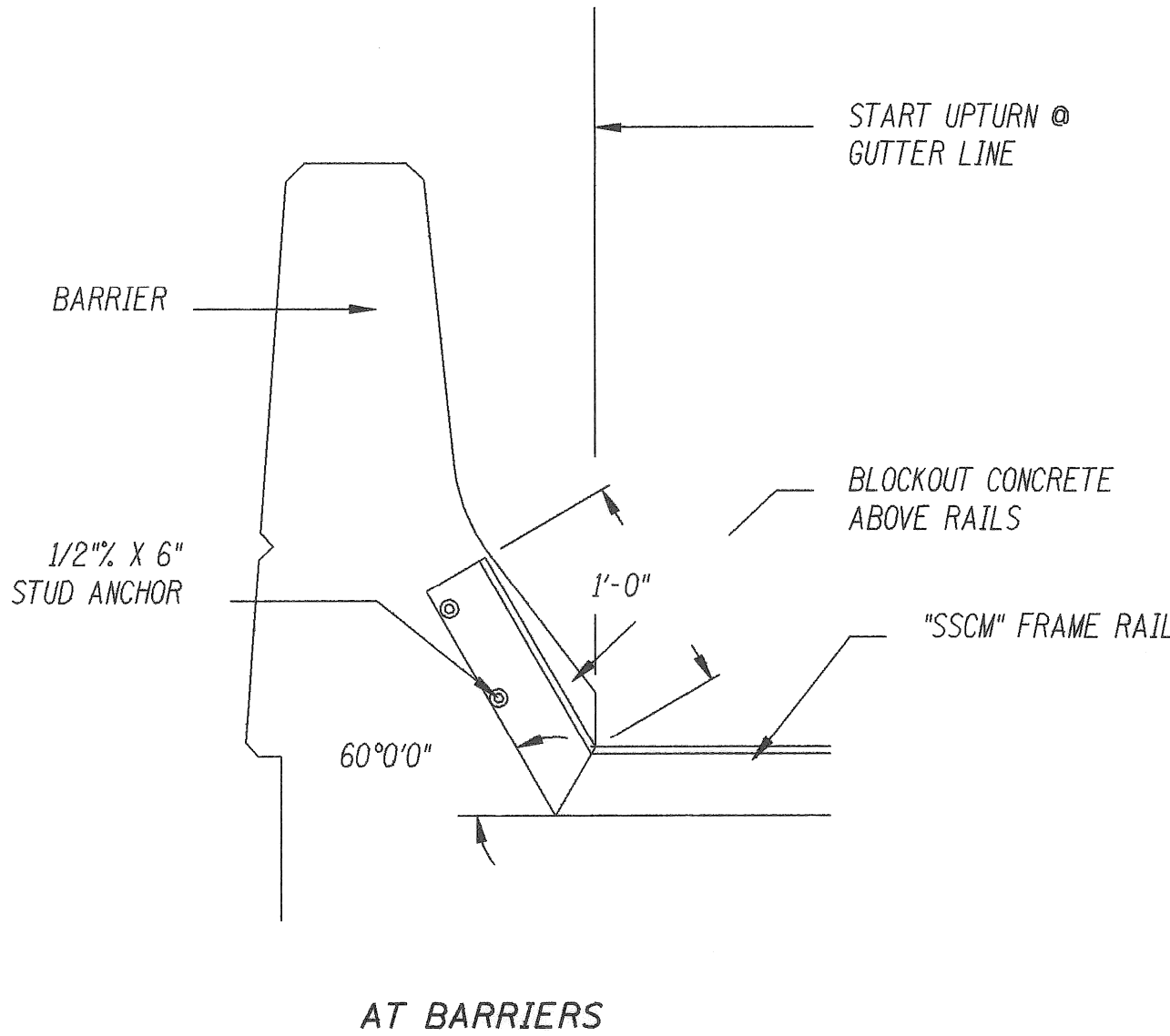
SPLICE DETAIL



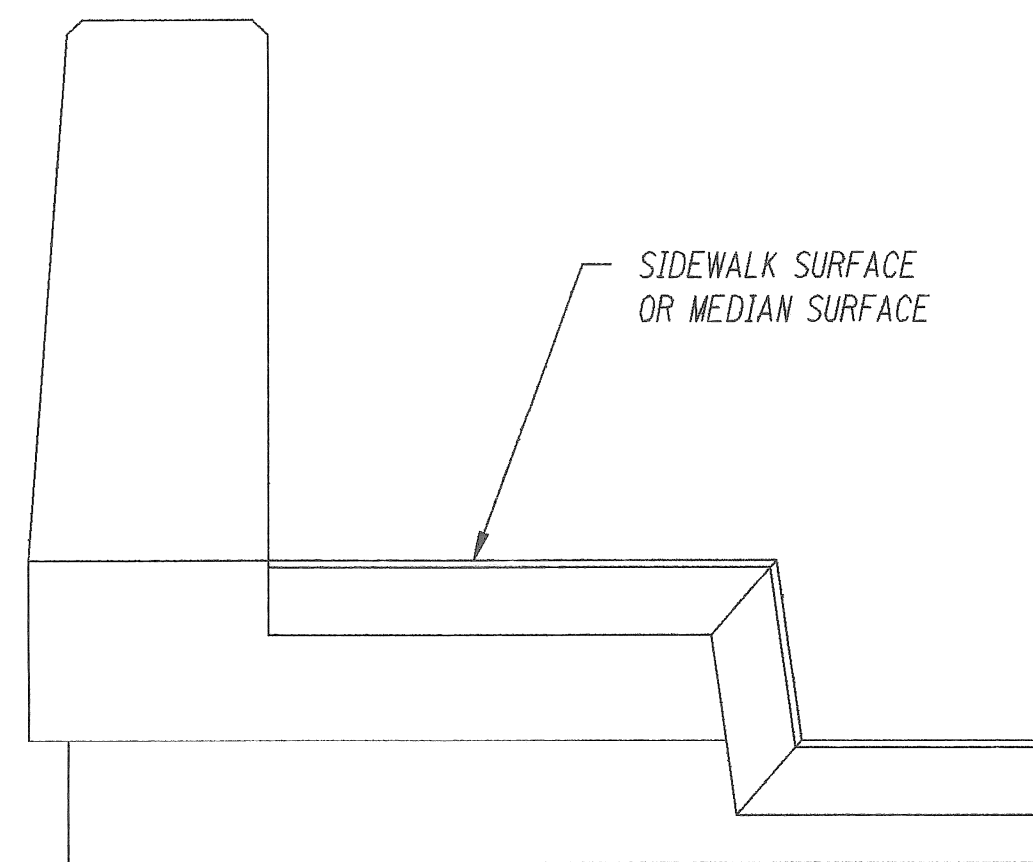
TEMPORARY ADJUSTMENT DEVICE



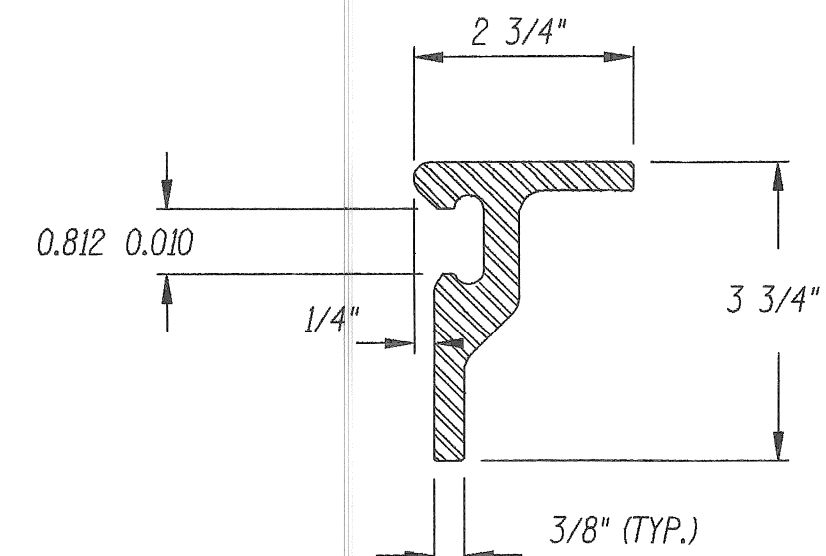
ANCHORAGE DETAIL



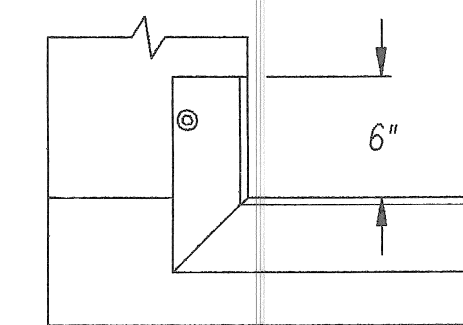
AT BARRIERS



AT SIDEWALK OR MEDIAN



"SSCM" FRAME RAIL



AT WALLS

MOVEMENT RATING	"C" @ 50°	"D" @ 50°
2"	1 1/2" MIN.	1"
3"	2" MIN.	1 1/2"
4"	2 1/2" MIN.	2"

MANUFACTURER	FRAME RAIL	SEAL TYPE
D.S. BROWN CO.	"SSCM"	"L" SERIES
WATSON-BOWMAN ASSOC. INC.	TYPE "C" EXTRUSION	SERIES 35-SF & 40-SD
ACME HIGHWAY PROD. CORP.	TYPE "C" EXTRUSION	AS200, AS300 & AS400

BILL OF MATERIALS		
ITEM	UNIT	QUANTITY
BRIDGE EXPANSION JOINT SEAL	L.F.	174

TYPICAL END TREATMENT

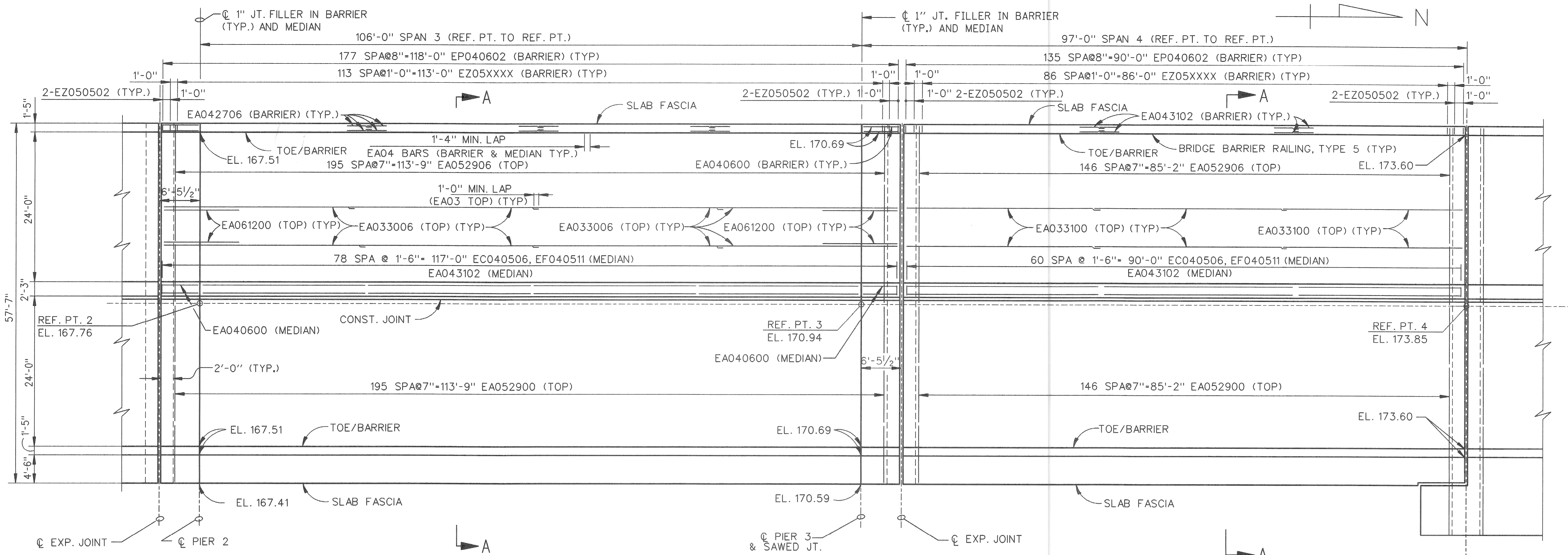
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 WALTER TEAMER AND ASSOCIATES, INC.
 A JOINT ASSOCIATION
 18431 JAMES COUZENS DETROIT, MI 48235

REVISIONS			
NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF TRANSPORTATION
 MOUNT ELLIOTT-MOUND ROAD BRIDGE
 IN THE CITY OF DETROIT
 EXPANSION JOINT DETAILS

APPROVED	DESIGN SUPERVISING ENGINEER
----------	-----------------------------

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



SLAB PLAN
SCALE: 1/8"=1'-0"

SUPERSTRUCTURE CONCRETE QUANTITIES

POUR	AMT (CYDS)
A	
B	
C	
D	
E	
F	
G	
H	
I	
K	
L	
M	
N	
TOTAL CONC.:	

MISCELLANEOUS QUANTITIES

ITEM	UNIT	AMOUNT
FORMING, FINISHING AND CURING SUPERSTRUCTURE CONCRETE	LSUM	
BRIDGE BARRIER RAILING, TYPE 5	LFT	

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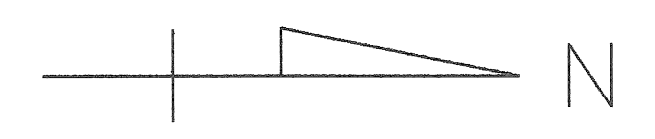
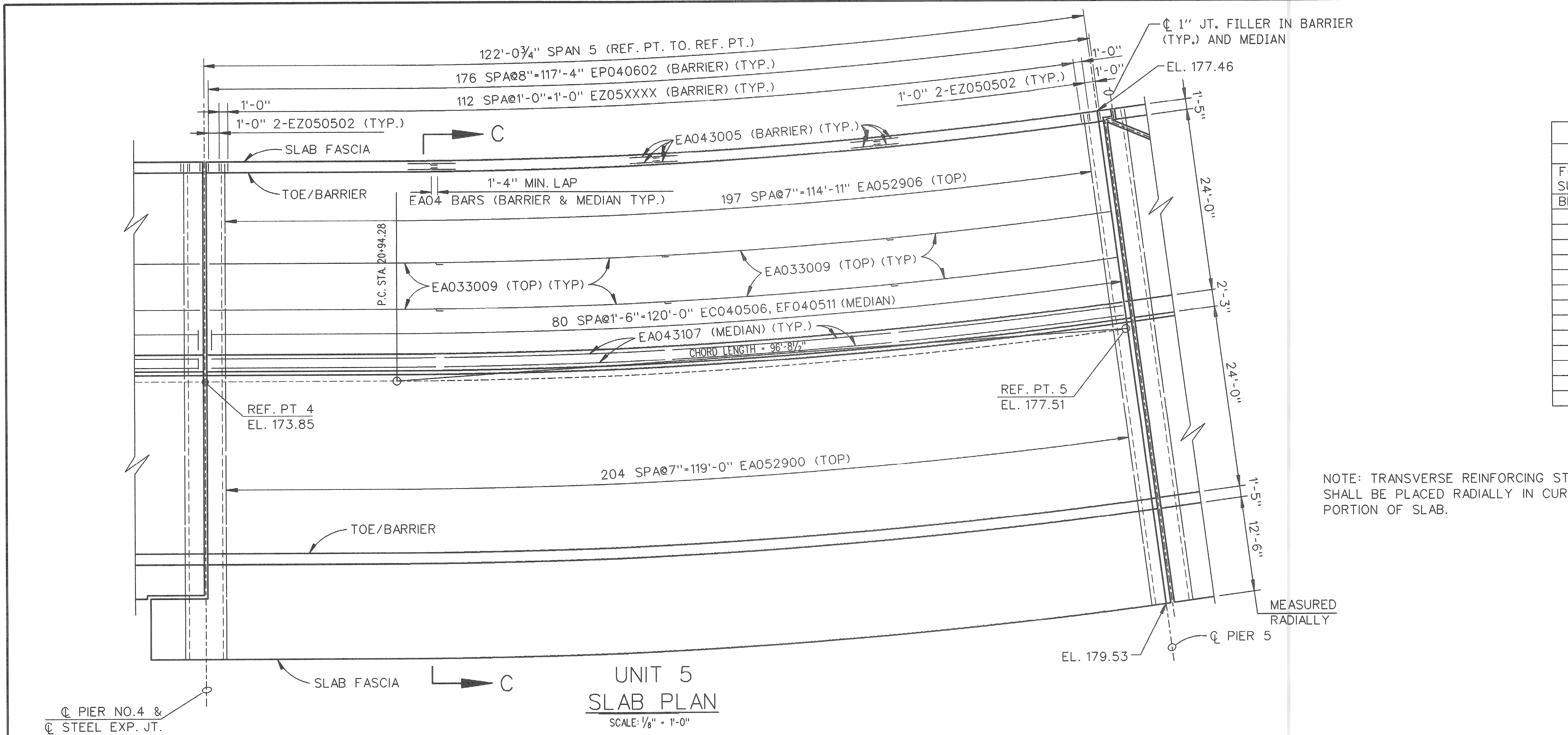
REVISIONS			
NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF TRANSPORTATION
MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
SUPERSTRUCTURE DETAILS

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

APPROVED _____
DESIGN SUPERVISING ENGINEER

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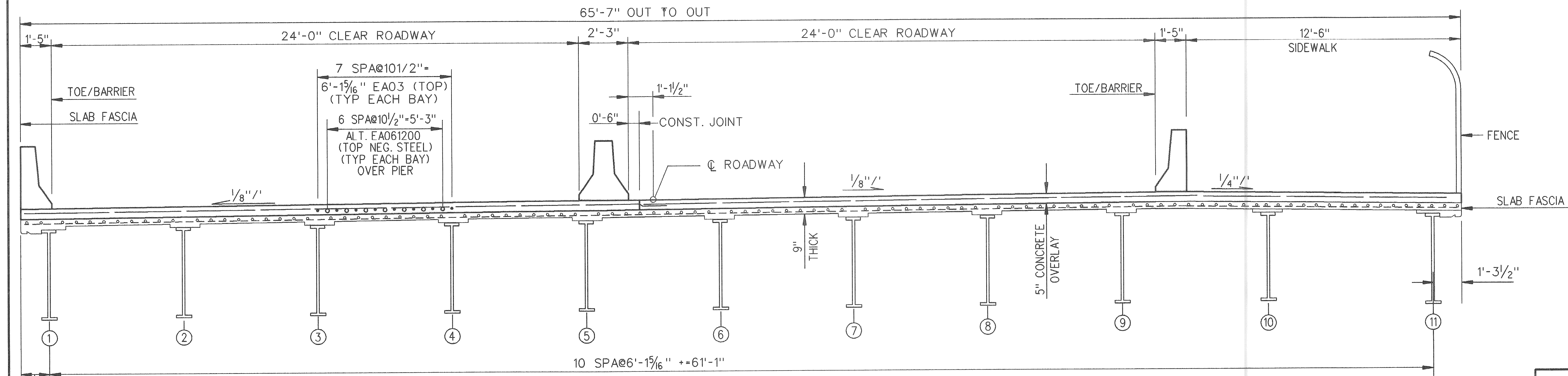


MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
FORMING, FINISHING AND CURING SUPERSTRUCTURE CONCRETE	LSUM	
BRIDGE BARRIER RAILING, TYPE 5	LFT	

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

SUPERSTRUCTURE CONCRETE QUANTITIES	
POUR	AMT (CYDS)
A	
B	
C	
D	
E	
F	
G	
H	
I	
K	
K	
L	
M	
N	
TOTAL CONC.:	

**UNIT 5
SLAB PLAN**
SCALE: 1/8" = 1'-0"



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

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MICHIGAN DEPARTMENT OF TRANSPORTATION
MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
SUPERSTRUCTURE DETAILS

NO.	DESCRIPTION	DATE	BY

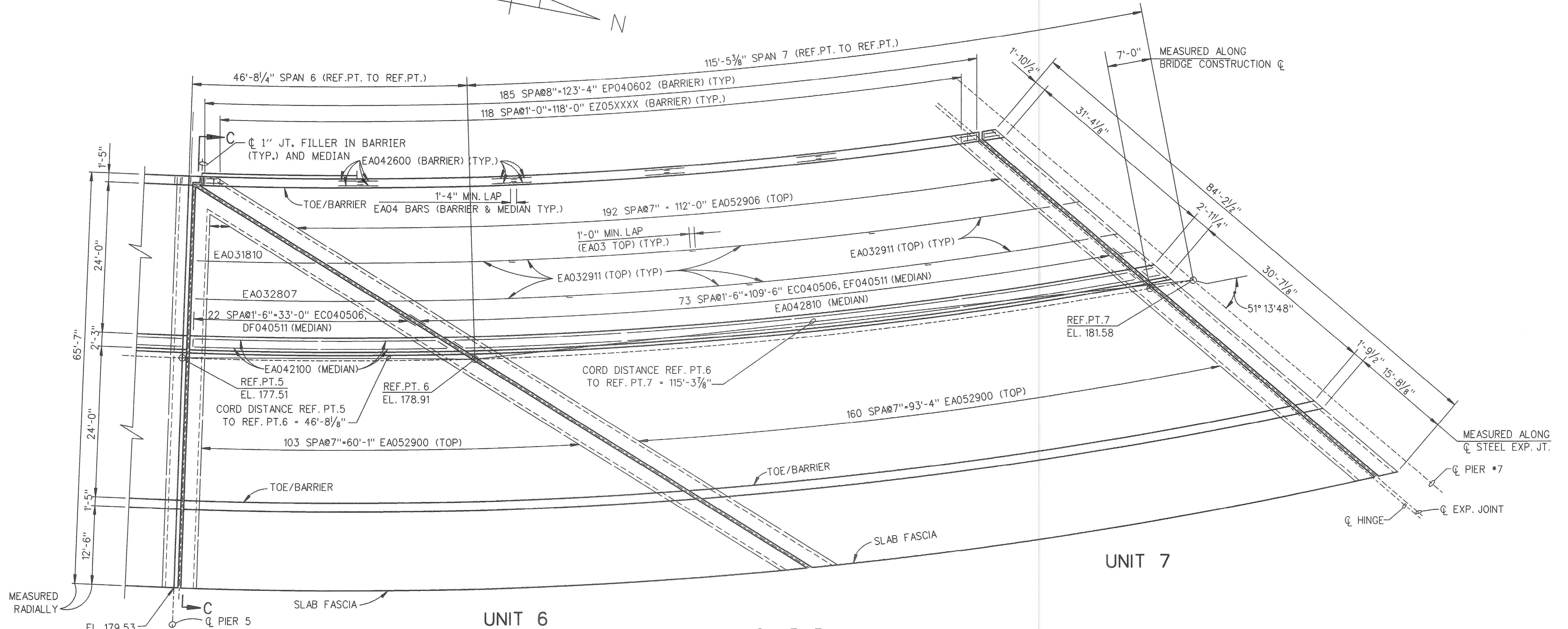
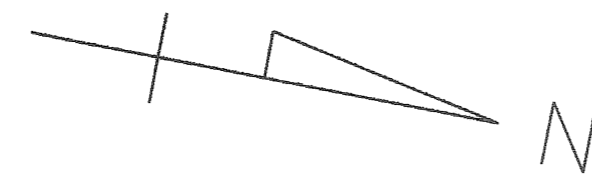
APPROVED _____
DESIGN SUPERVISING ENGINEER

SQUAD BOSS	NAME	DATE

DRAWN BY	NAME	DATE

CHECKED BY	NAME	DATE

SHEET _____ OF _____



SLAB PLAN
SCALE: 1/8" = 1'-0"

UNIT 7

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

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
FORMING, FINISHING AND CURING	LSUM	
SUPERSTRUCTURE CONCRETE		
BRIDGE BARRIER RAILING, TYPE 5	LFT	

SUPERSTRUCTURE CONCRETE QUANTITIES	
POUR	AMT (CYDS)
A	
B	
C	
D	
E	
F	
G	
H	
I	
K	
K	
L	
M	
N	
TOTAL CONC.:	

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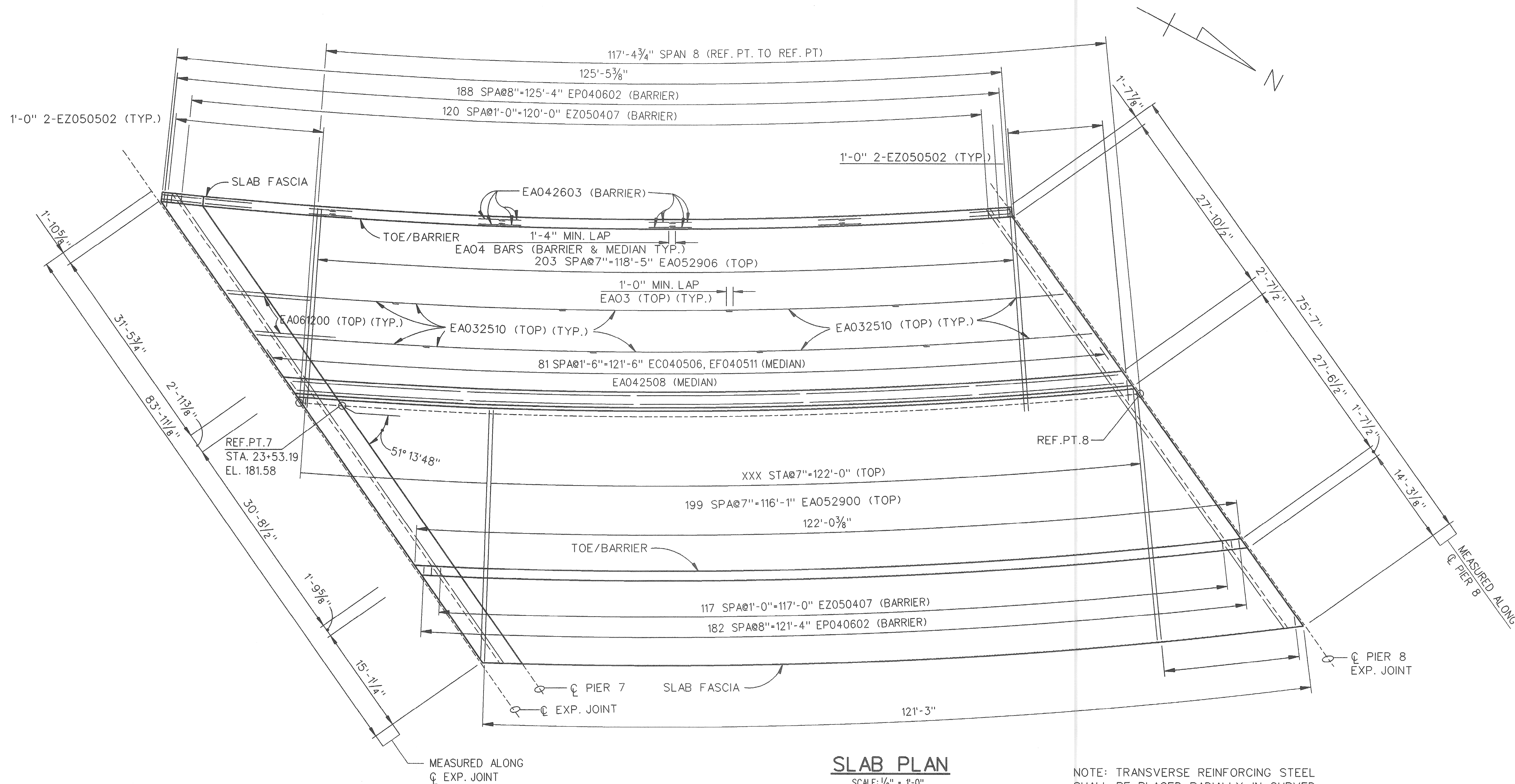
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MICHIGAN DEPARTMENT OF TRANSPORTATION
MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
SUPERSTRUCTURE DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

APPROVED _____
DESIGN SUPERVISING ENGINEER

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



SLAB PLAN
SCALE: 1/8" = 1'-0"

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

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
FORMING, FINISHING AND CURING	LSUM	
SUPERSTRUCTURE CONCRETE	LSUM	
BRIDGE BARRIER RAILING, TYPE 5	LFT	

SUPERSTRUCTURE CONCRETE QUANTITIES	
POUR	AMT (CYDS)
A	
B	
C	
TOTAL CONC.:	

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MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
SUPERSTRUCTURE DETAILS

NO.	DESCRIPTION	DATE	BY

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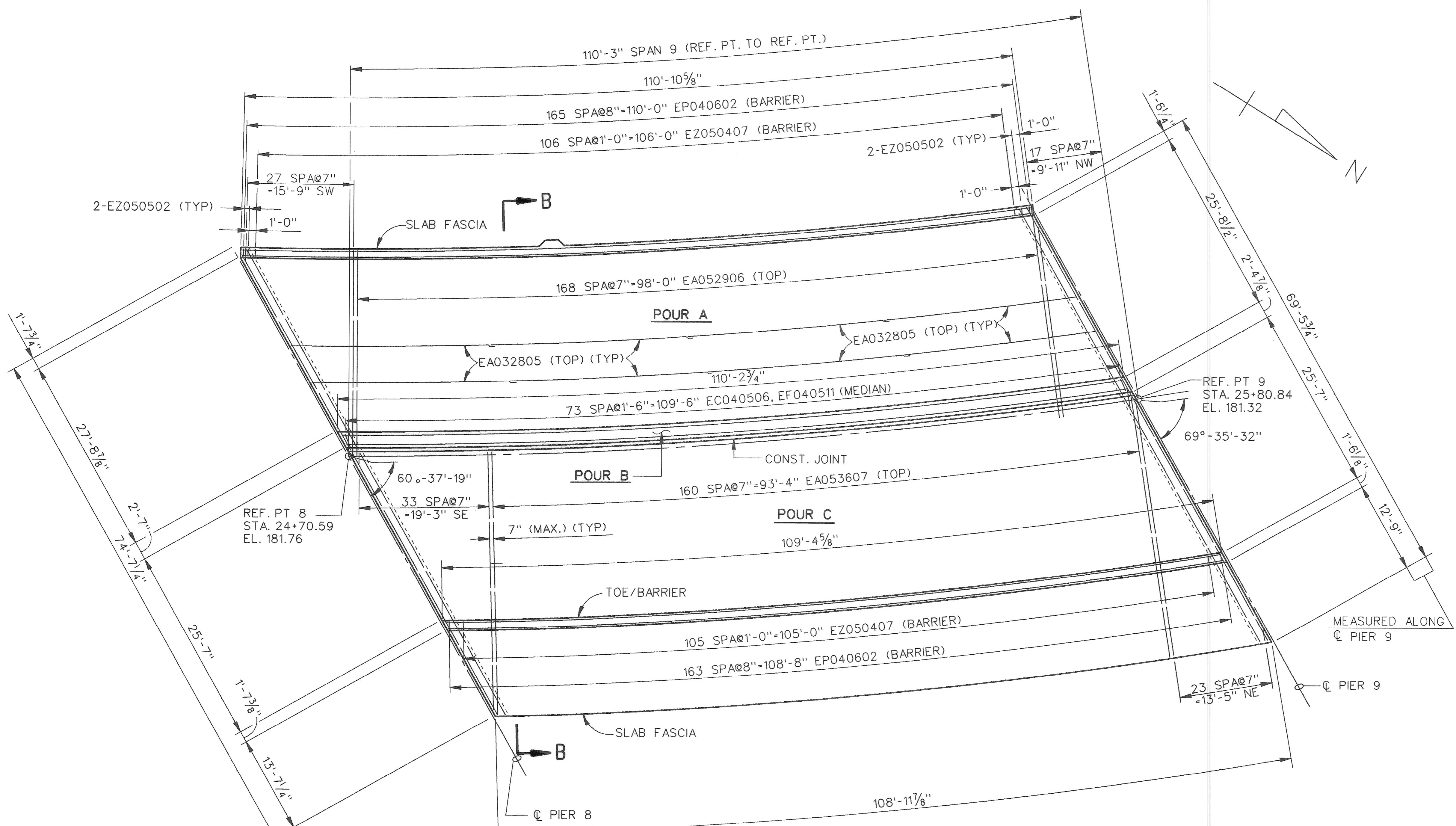
SQUAD BOSS	NAME	DATE

CHECKED BY	NAME	DATE

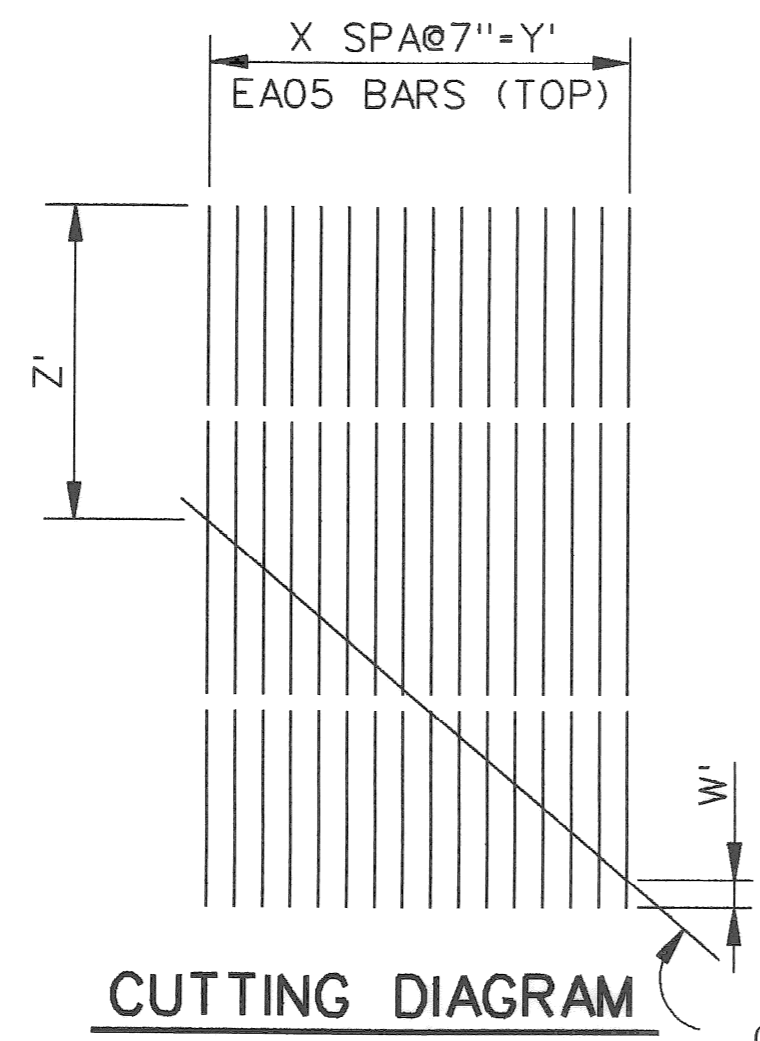
SHEET _____ OF _____

SUPERSTRUCTURE CONCRETE QUANTITIES	
POUR	AMT (CYDS)
A	
B	
C	
TOTAL CONC.:	

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
FORMING, FINISHING AND CURING SUPERSTRUCTURE CONCRETE	LSUM	
BRIDGE BARRIER RAILING, TYPE 5	LFT	



SLAB PLAN
SCALE: 1/8"=1'-0"



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

REBAR CUT LIST					
LOCATION	BAR NO.	W'	X	Y'	Z'
SPAN 6 SECT. W					
SPAN 6 SECT. NE					
SPAN 7 SECT. SW					
SPAN 7 SECT. NW					
SPAN 7 SECT. SE					
SPAN 7 SECT. NE					
SPAN 8 SECT. SW					
SPAN 8 SECT. NW					
SPAN 8 SECT. SE					
SPAN 8 SECT. NE					
SPAN 9 SECT. SW	EA053202	1'-8"	13	7'-7"	15'-7"
SPAN 9 SECT. NW	EA052711	1'-4"	8	4'-8"	14'-8 3/4"
SPAN 9 SECT. SE	EA053705	1'-5"	16	9'-4"	19'-2 3/4"
SPAN 9 SECT. NE	EA053902	1'-9"	11	6'-5"	20'-4 1/4"
SPAN 10 SECT. SW					
SPAN 10 SECT. NW					
SPAN 10 SECT. SE					
SPAN 10 SECT. NE					
SPAN 11 SECT. SW					
SPAN 11 SECT. SE					
SPAN 15 SECT. NW					
SPAN 15 SECT. NE					

NOTES:
TRANSVERSE STEEL SHALL BE PLACED RADIALLY.
LONGITUDINAL STEEL SHALL BE PLACED CONCENTRIC TO BRIDGE CENTER LINE.

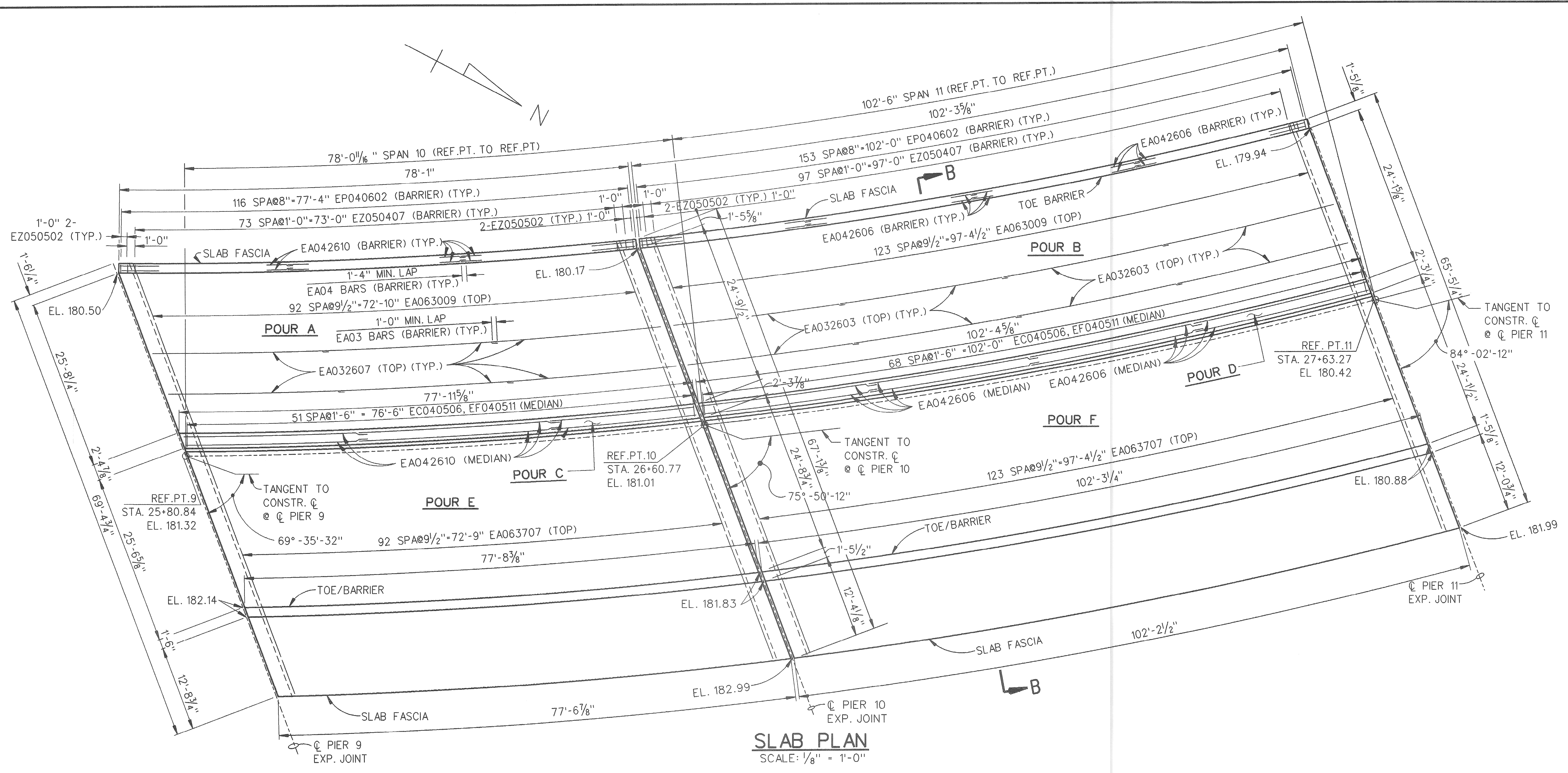
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MICHIGAN DEPARTMENT OF TRANSPORTATION
MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
SUPERSTRUCTURE DETAILS

DESIGN SUPERVISING ENGINEER	SQUAD BOSS NAME	DATE
APPROVED	DRAWN BY NAME	DATE
DESIGN SUPERVISING ENGINEER	CHECKED BY NAME	DATE
	SHEET	OF

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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SLAB PLAN
SCALE: 1/8" = 1'-0"

MISCELLANEOUS QUANTITIES			
ITEM	UNIT	AMOUNT	
FORMING, FINISHING AND CURING SUPERSTRUCTURE CONCRETE	LSUM		
BRIDGE BARRIER RAILING, TYPE 5	LFT	360.4	

SUPERSTRUCTURE CONCRETE QUANTITIES	
POUR	AMT (CYDS)
A	
B	
C	
D	
E	
F	
TOTAL CONC.:	

NOTES:
 TRANSVERSE STEEL SHALL BE PLACED PARALLEL TO THE REFERENCE LINE.
 LONGITUDINAL STEEL SHALL BE PLACED CONCENTRIC TO BRIDGE CENTER LINE.

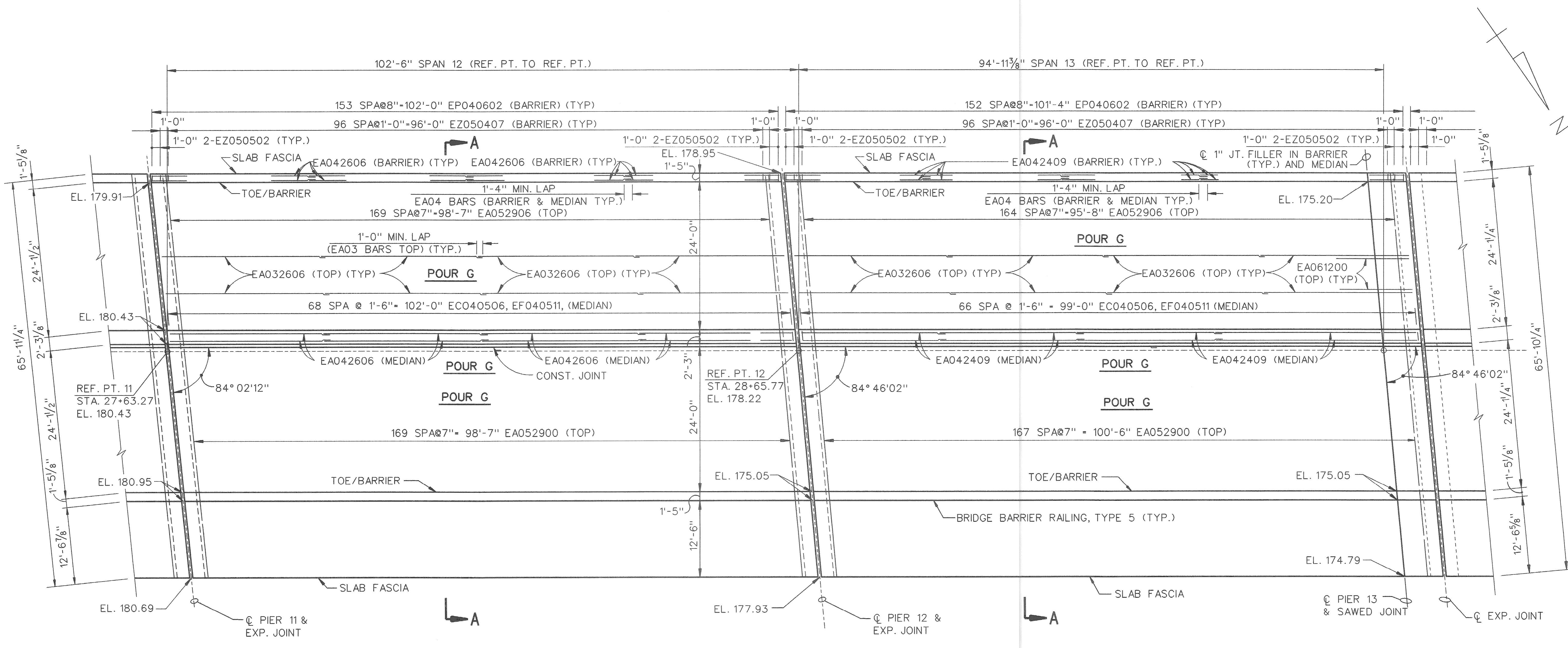
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MICHIGAN DEPARTMENT OF TRANSPORTATION
 MOUNT ELLIOTT-MOUND ROAD BRIDGE
 IN THE CITY OF DETROIT
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REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	NAME	DATE
DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE
SHEET	OF	
APPROVED _____		
DESIGN SUPERVISING ENGINEER		

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SLAB PLAN
SCALE: 1/8"=1'-0"

SUPERSTRUCTURE CONCRETE QUANTITIES	
POUR	AMT. (CYDS)
A	46.5
B	45.7
C	13.5
D	13.4
E	61.7
F	61.1
TOTAL CONC.: 241.9	

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
FORMING, FINISHING AND CURING SUPERSTRUCTURE CONCRETE	LSUM	
BRIDGE BARRIER RAILING, TYPE 5	LFT	

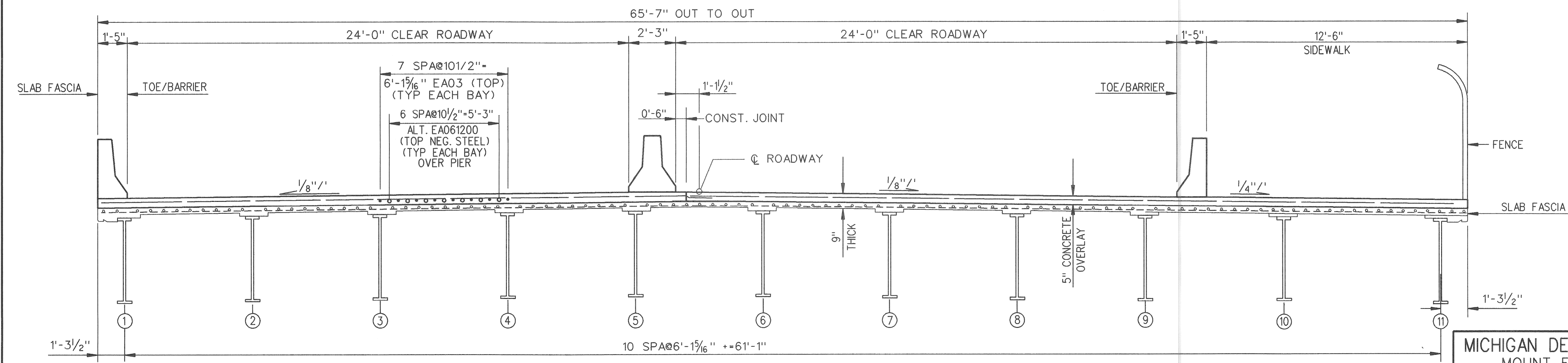
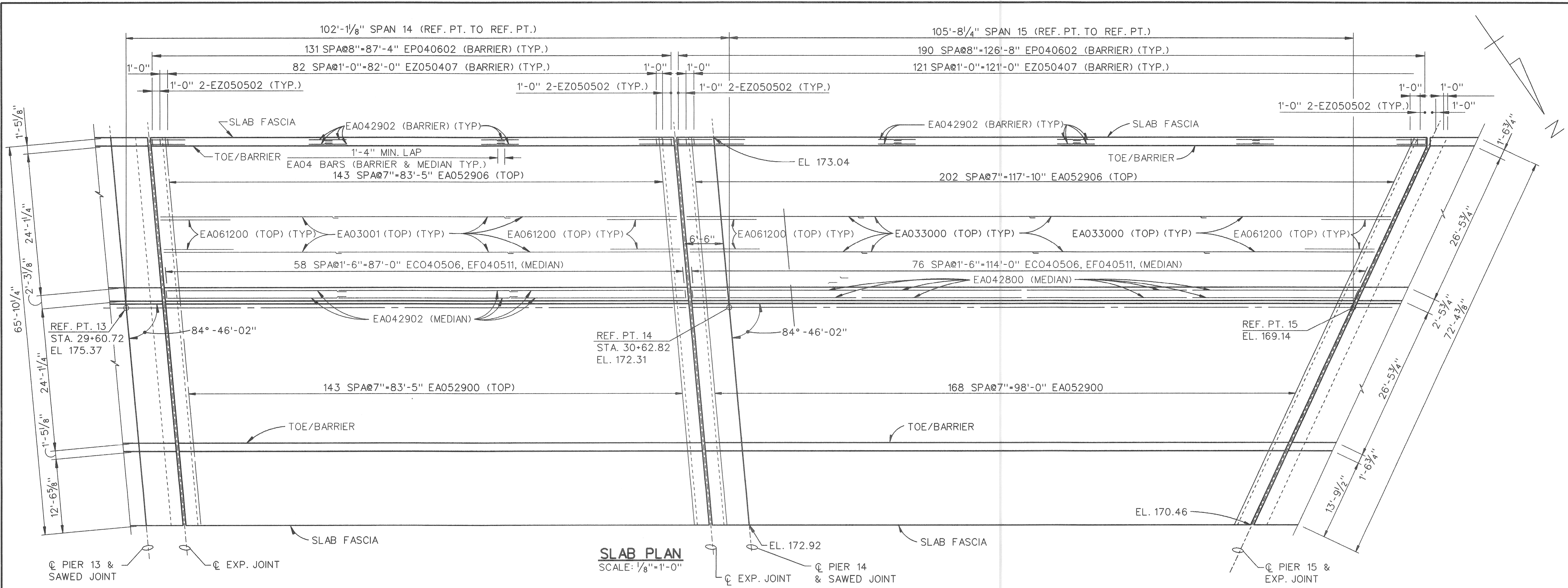
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MICHIGAN DEPARTMENT OF TRANSPORTATION
MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
SUPERSTRUCTURE DETAILS

APPROVED _____
DESIGN SUPERVISING ENGINEER

NO. _____ DESCRIPTION _____ DATE _____ BY _____

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



MICHIGAN DEPARTMENT OF TRANSPORTATION
MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
SUPERSTRUCTURE DETAILS

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

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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

APPROVED _____
DESIGN SUPERVISING ENGINEER

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MICHIGAN DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED BRIDGES

MICHIGAN PROJECT

CONTROL SECTION

JOB NUMBER

MOUNT ELLIOT-MOUND ROAD
GRADE SEPARATION

WAYNE CO.
CITY OF DETROIT

PLAN INDEX	
1	TITLE SHEET
2	GENERAL PLAN OF STRUCTURE
3	GENERAL PLAN OF STRUCTURE
4	GENERAL PLAN OF STRUCTURE



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.

GENERAL NOTES

The design of this structure rehabilitation is based on current AASHTO Standard Specifications for Highway Bridges HS25 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.

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 design office in Lansing, 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 existing structure shall be checked before the award of the contract, by M.D.O.T. forces to see that its relationship to the proposed work is as shown on these plans and any differences requiring changes in the new work shall be reported to the city of Detroit.

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

Concrete:	Grade 355	f'c =	3,000psi
Concrete:	Grade 45D	f'c =	4,000psi
Steel Reinforcement:		fy =	60,000psi
Structural Steel:	A36	fy =	36,000psi
Structural Steel:	A442 modified	fy =	50,000psi
Grade 50			

CONTRACT FOR RECONSTRUCTION OF DECK WITH OVERLAY, NEW TYPE 5 BARRIER WALLS, REPAIRS TO PIERS AND NEW ABUTMENTS

APPROVALS

RECOMMENDED FOR APPROVAL	ENGINEER BRIDGE DESIGN	DATE
RECOMMENDED FOR APPROVAL	ENGINEER OF DESIGN	DATE
RECOMMENDED FOR APPROVAL	ENGINEER OF TRAFFIC & SAFETY	DATE
RECOMMENDED FOR APPROVAL	ENGINEER OF CONSTRUCTION	DATE

MICHIGAN DEPARTMENT OF TRANSPORTATION
PATRICK M. NOWAK - DIRECTOR

APPROVED BY _____ DEPUTY DIRECTOR - HIGHWAYS _____ DATE _____

PLANS PREPARED BY _____ U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

CONTROL SECTION	JOB NUMBER	APPROVED DIVISION ADMINISTRATOR		DATE
		FEDERAL NUMBERS	DATE	
PROJECT	ITEM	DATE		SECT. NO.
				1

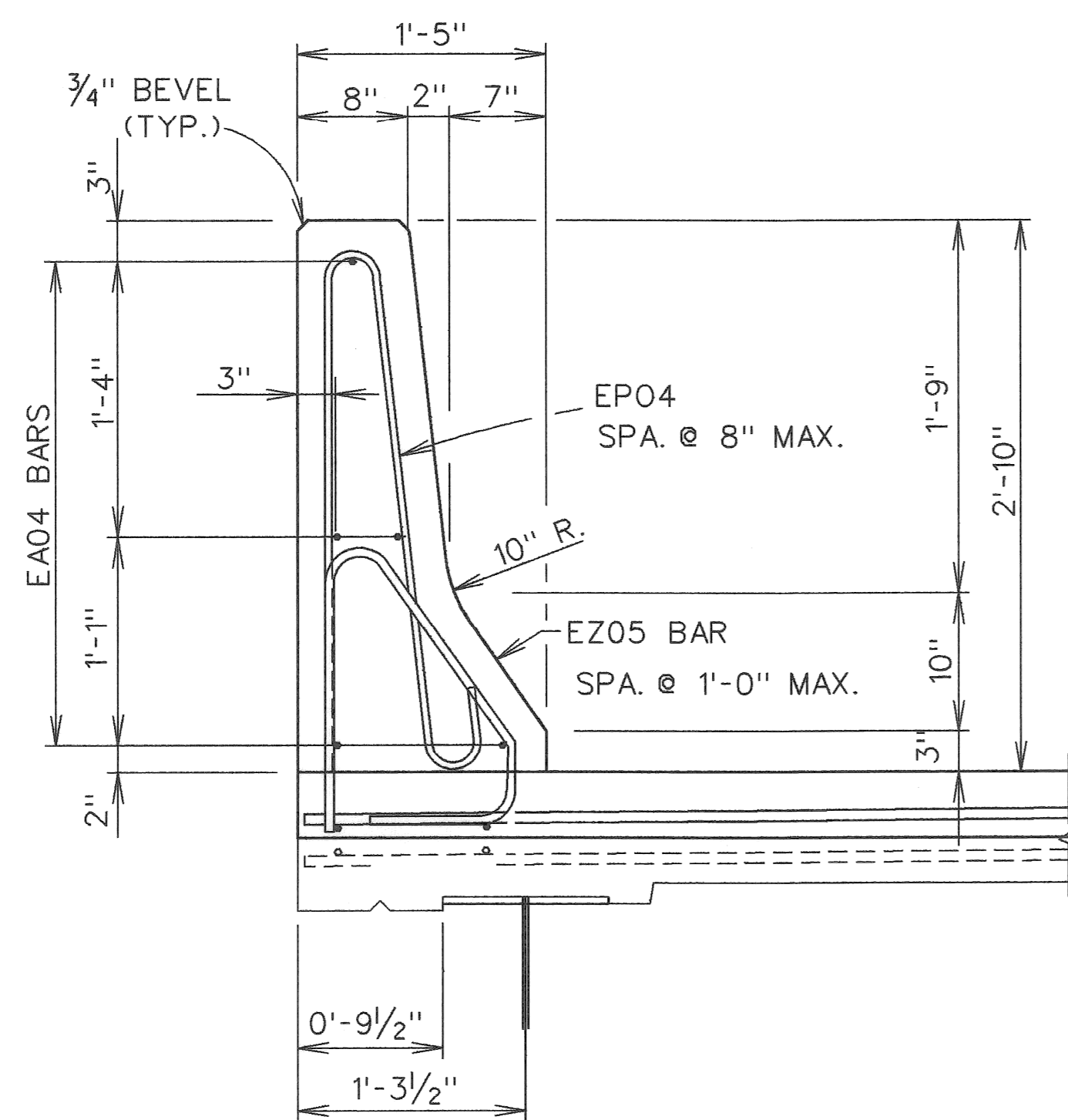
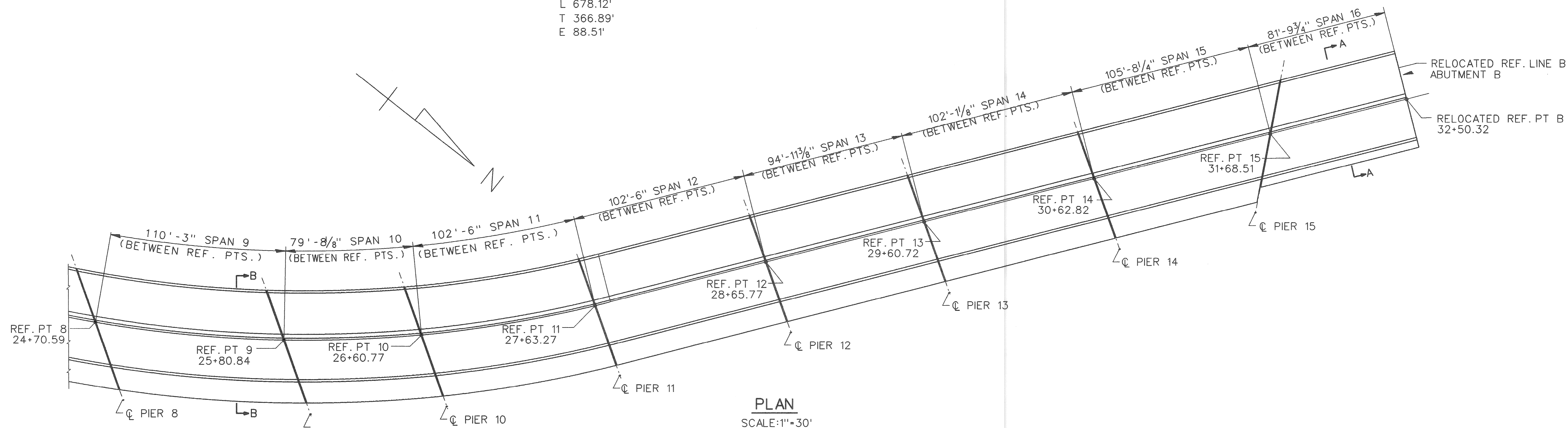
PRELIMINARY
BAKER ENGINEERING, INC.
JUL 29 1988

JOB NUMBER

CONTROL SECTION

CURVE DATA C3

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 Δ 54° 15' 00"
 D 8° 00'
 R 716.20'
 L 678.12'
 T 366.89'
 E 88.51'



TYPICAL BARRIER SECTION

NOTES:
 FOR SECTIONS A-A AND B-B, SEE SHEET 2 OF 4.
 FOR SECTION AT DECK JOINTS, SEE SHEET 4 OF 4.
 FOR ABUTMENT B LAYOUT, SEE SHEET 4 OF 4

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 A JOINT ASSOCIATION

18431 JAMES COUZENS DETROIT, MI 48235

PRELIMINARY
 BAKER ENGINEERING, INC.

29 1998

REVISIONS			
NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF TRANSPORTATION
 MOUNT ELLIOTT-MOUND ROAD BRIDGE
 IN THE CITY OF DETROIT
 GENERAL PLAN OF STRUCTURE

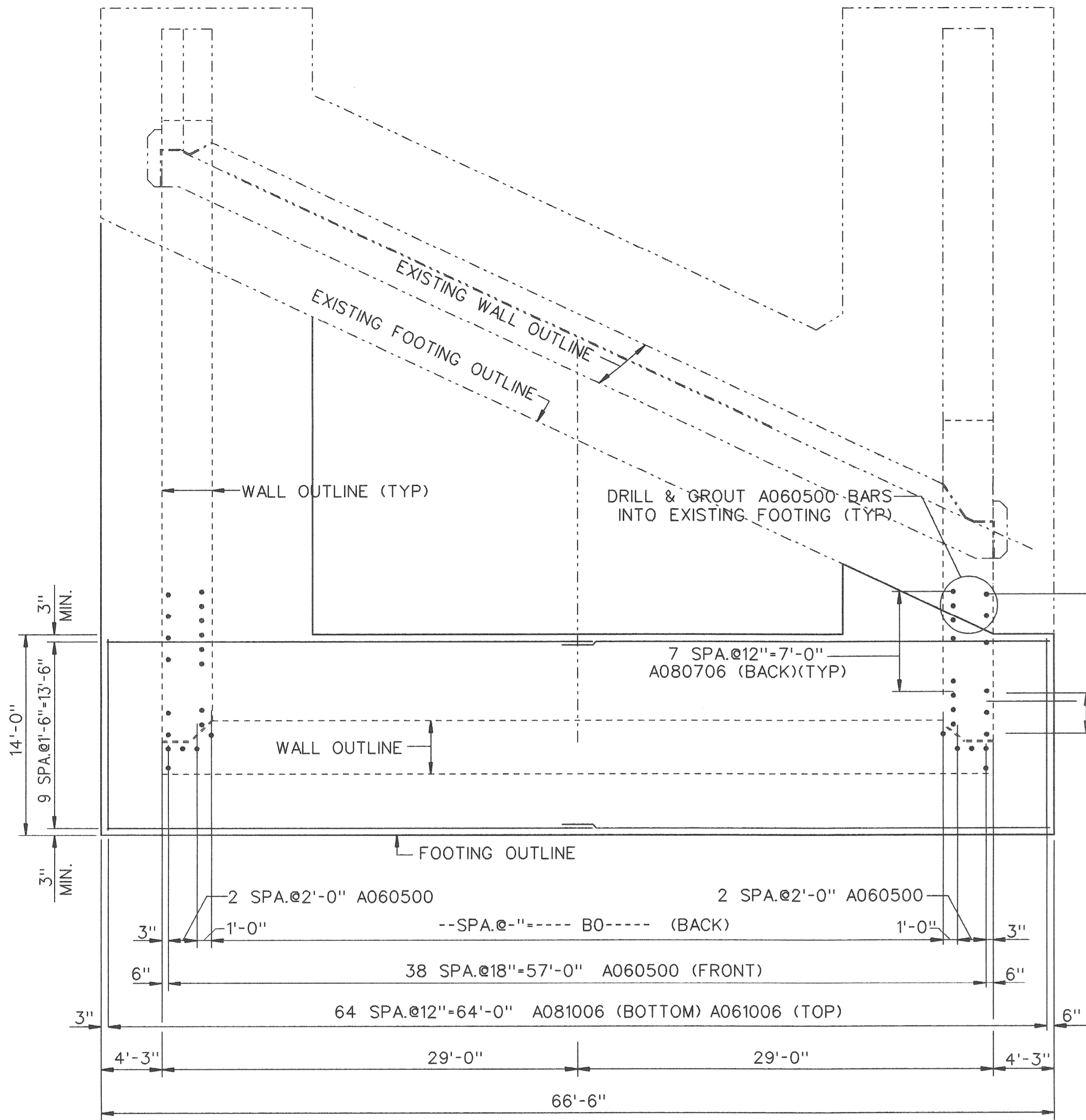
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 DESIGN SUPERVISING ENGINEER

SQUAD BOSS	NAME	DATE

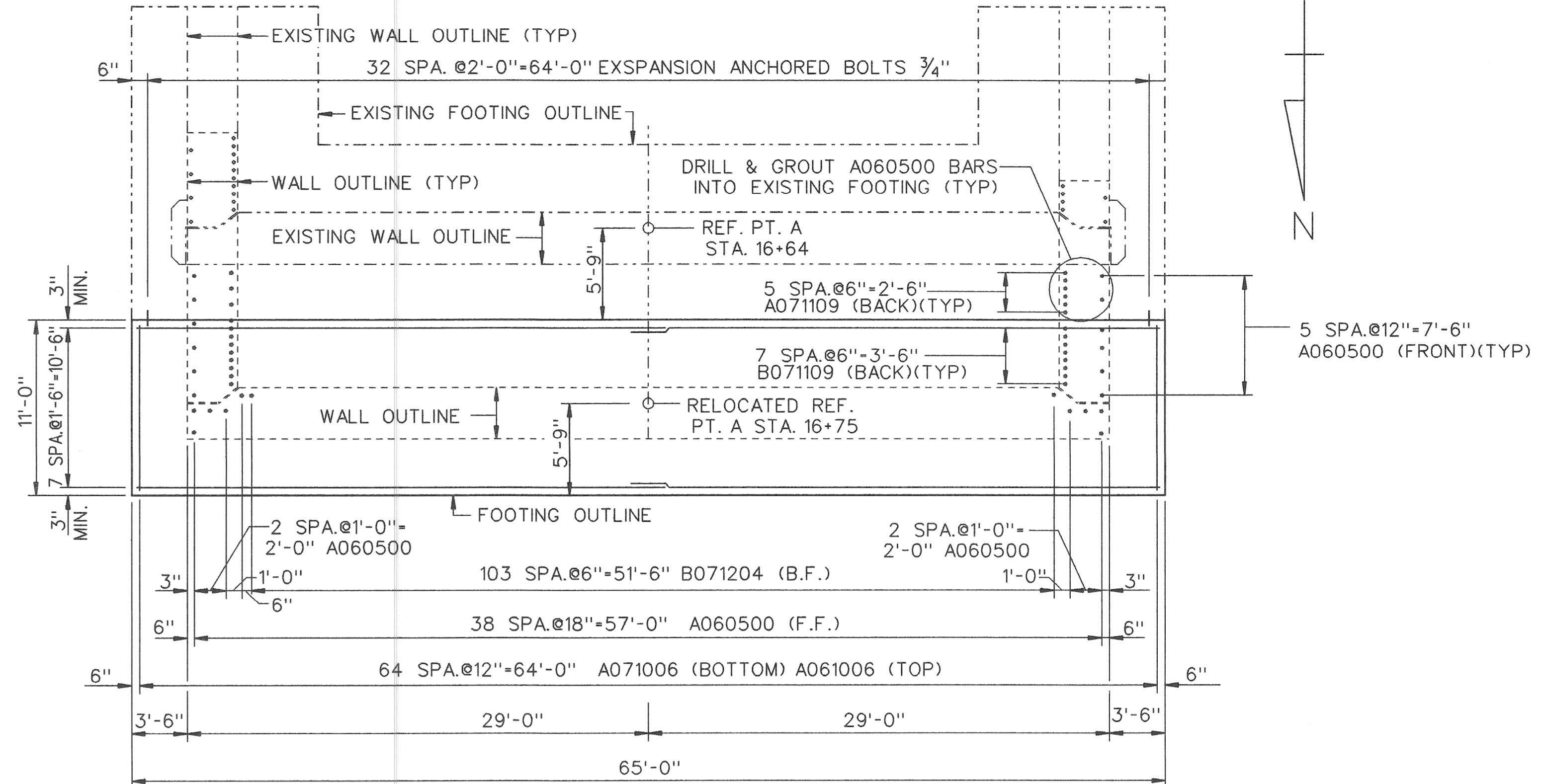
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SHEET	3	OF	4
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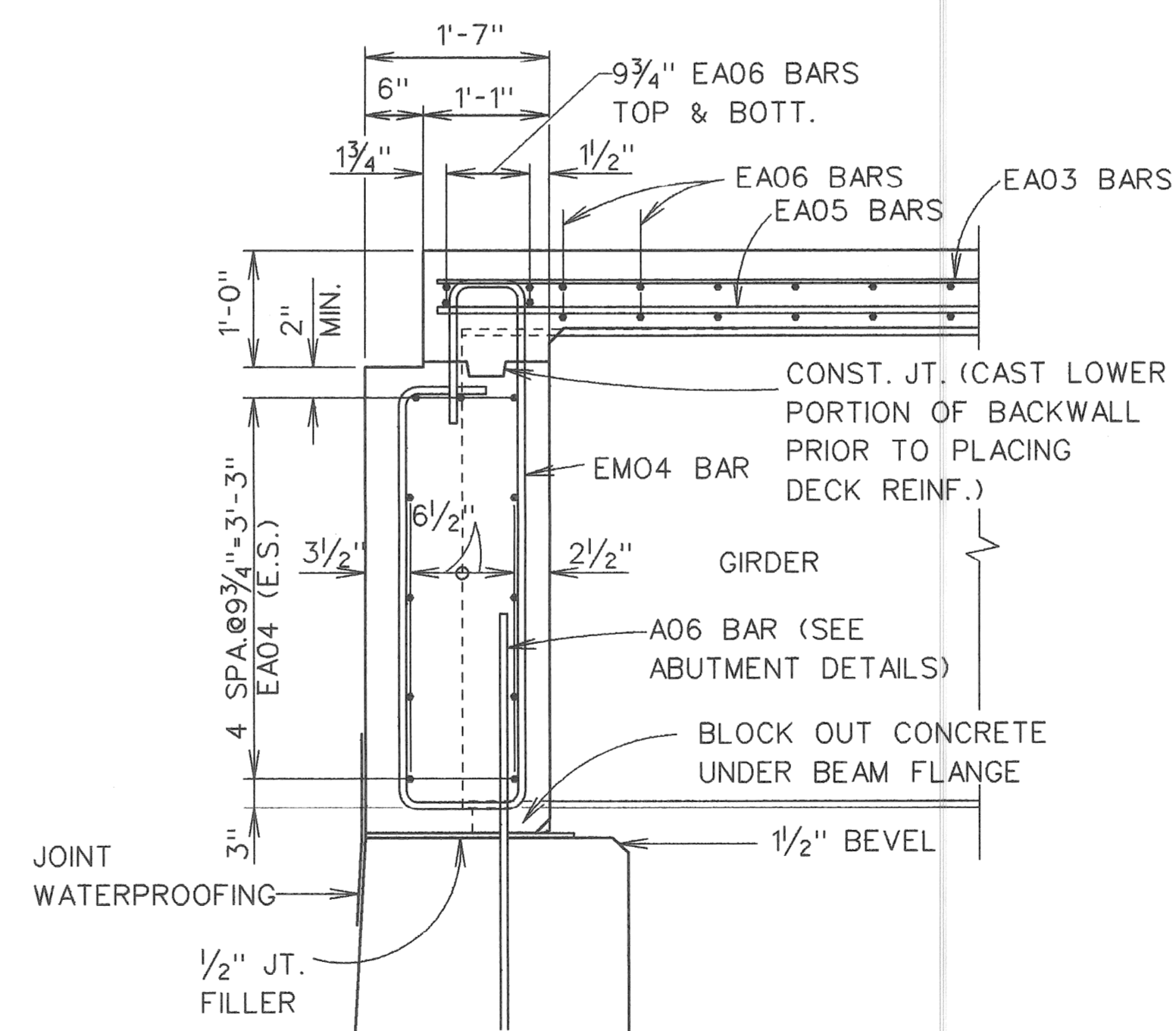
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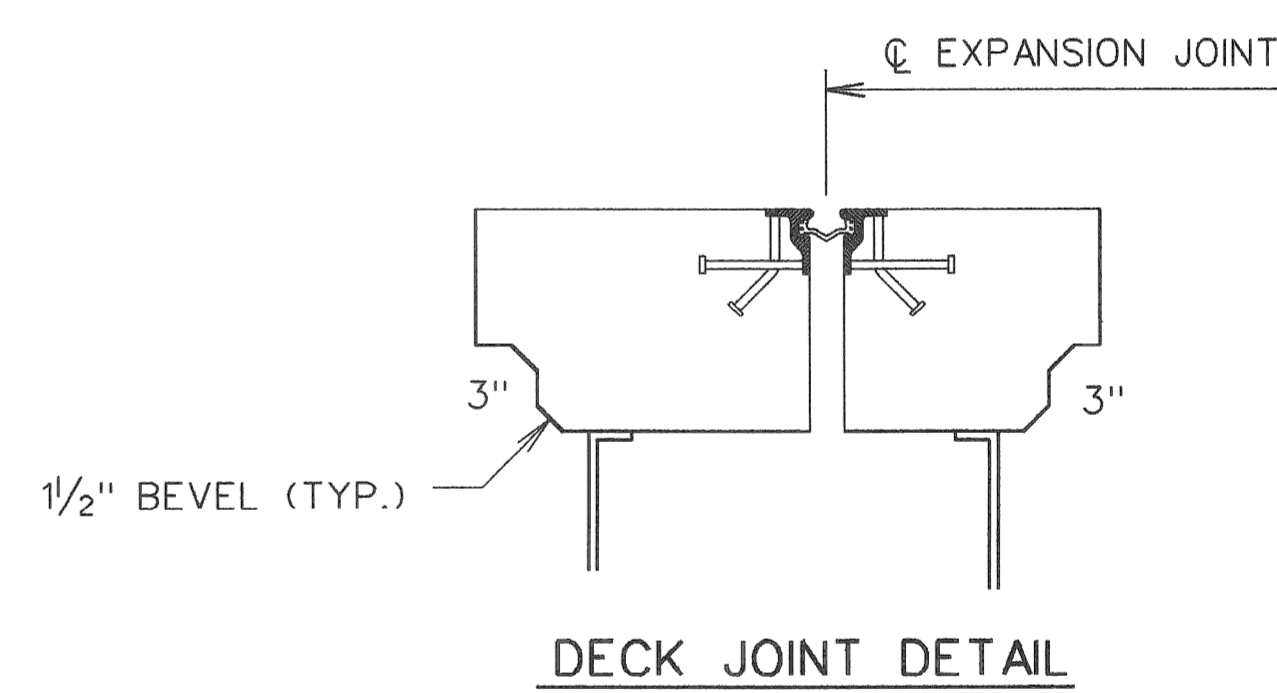
FOOTING PLAN-ABUTMENT B



FOOTING PLAN-ABUTMENT A



SECTION AT ABUTMENTS



DECK JOINT DETAIL

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 18431 JAMES COUZENS DETROIT, MI 48235

PRELIMINARY
 BAKER ENGINEERING, INC.
 JUL 26 1983

MICHIGAN DEPARTMENT OF TRANSPORTATION
 MOUNT ELLIOTT-MOUND ROAD BRIDGE
 IN THE CITY OF DETROIT
 GENERAL PLAN OF STRUCTURE

REVISIONS			
NO.	DESCRIPTION	DATE	BY

APPROVED _____
 DESIGN SUPERVISING ENGINEER

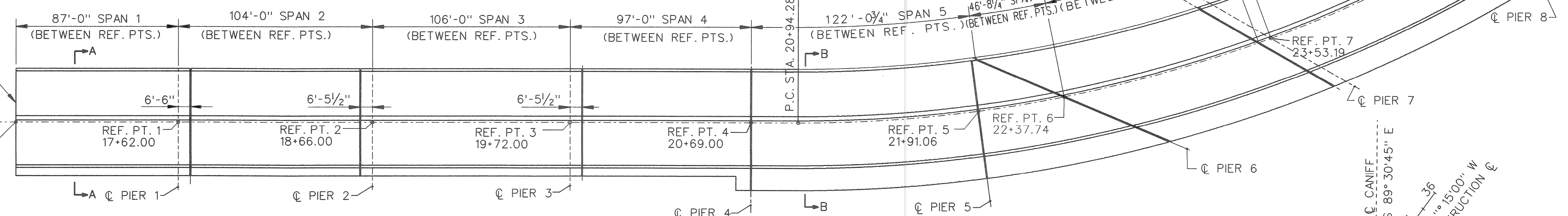
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SHEET 4		OF 4	

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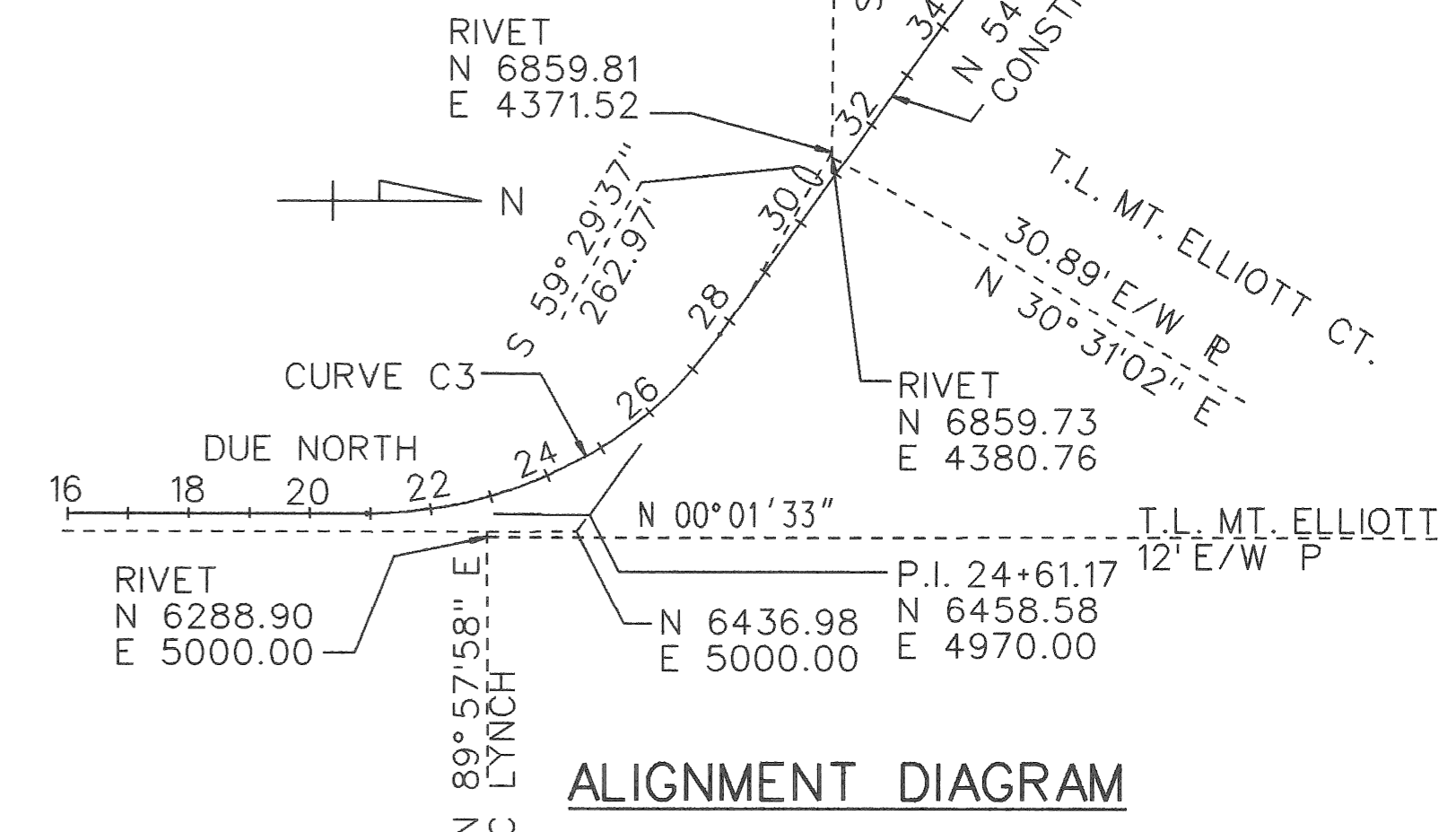
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PBM MONUMENT LOCATED ON EAST SIDEWALK ON BRIDGE AT ABUTMENT A.	ELEV.
PBM MONUMENT LOCATED ON WEST SIDEWALK ON BRIDGE AT ABUTMENT B.	ELEV.

CURVE DATA C3

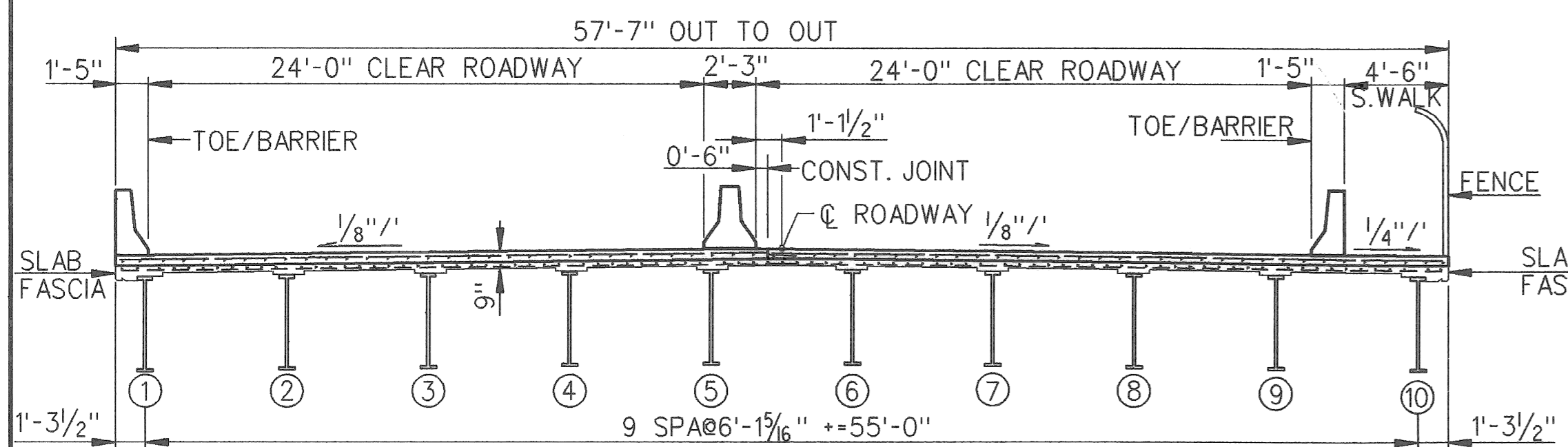
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 E 88.51'



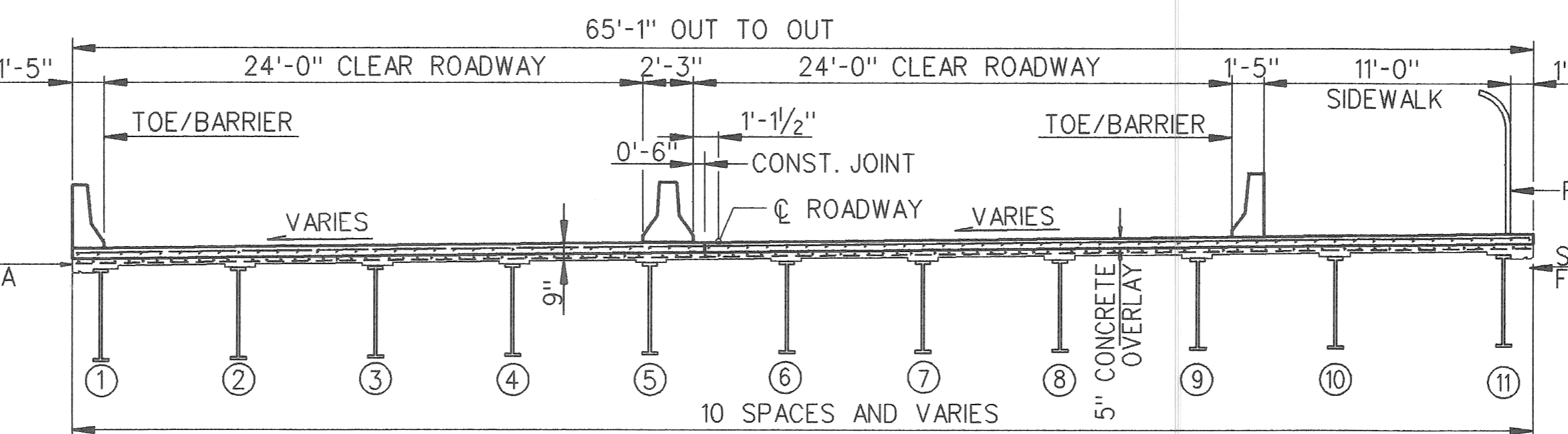
PLAN
SCALE: 1" = 30'



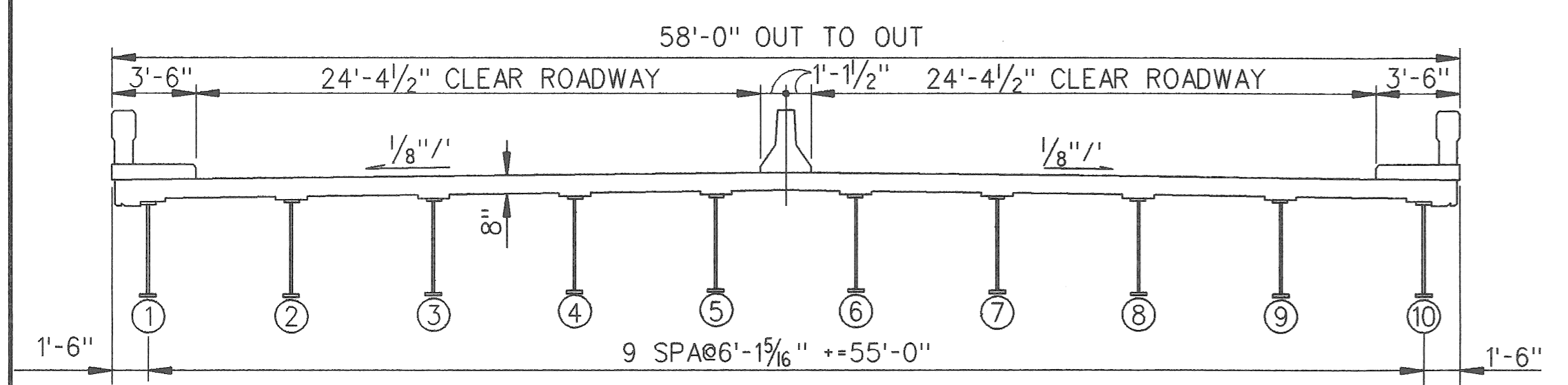
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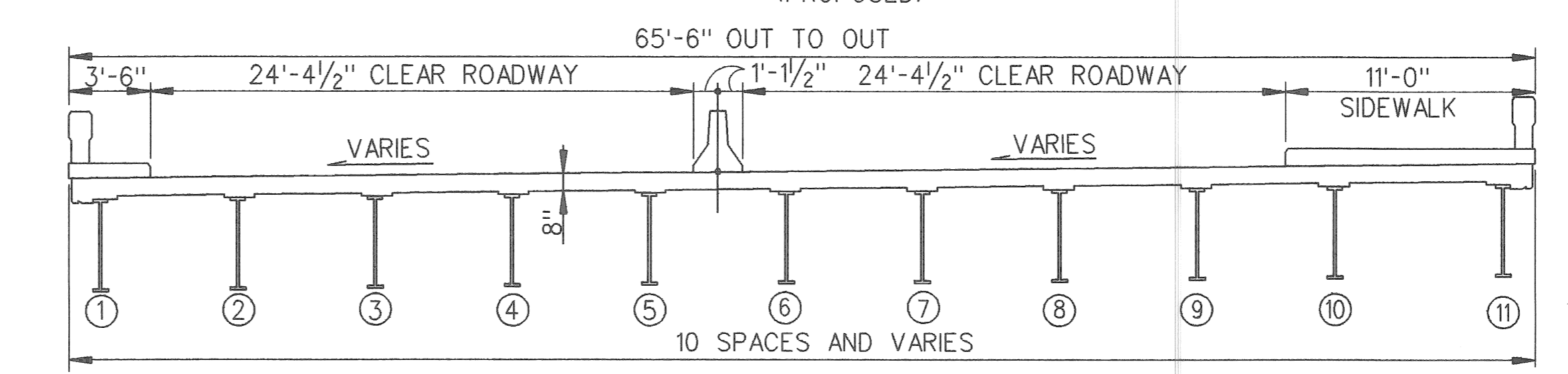
SECTION A-A
(PROPOSED)



SECTION B-B
(PROPOSED)



SECTION A-A
(EXISTING)



SECTION B-B
(EXISTING)

NOTES:

- THE WORK COVERED BY THESE PLANS INCLUDES REMOVAL OF EXISTING BARRIER WALLS, MEDIAN, DECK LIGHTING, DECK JOINTS, AND HYDRODEMOLISHING THE DECK SLAB 4"; PLACEMENT OF NEW DECK JOINTS, 5" CONCRETE OVERLAY WITH EPOXY-COATED REINFORCEMENT, TYPE 5 BARRIER WALLS AND MEDIAN; 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 48 HOURS 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.
- THE EXISTING STRUCTURE SHALL BE CHECKED AT THE TIME OF STARTING CONSTRUCTION TO SEE THAT ITS RELATIONSHIP TO THE PROPOSED WORK IS AS SHOWN ON THESE PLANS AND ANY DIFFERENCES REQUIRING CHANGES IN THE NEW WORK SHALL BE REPORTED TO THE CITY OF DETROIT.
- CARE SHALL BE TAKEN SO THAT REMOVED MATERIAL DOES NOT FALL FROM THE STRUCTURE.

NOTES:
 FOR SECTION AT DECK JOINTS, SEE SHEET 4 OF 4.
 FOR ABUTMENT A LAYOUT, SEE SHEET 4 OF 4.
 FOR BARRIER DETAIL, SEE SHEET 3 OF 4.

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 18431 JAMES COUZENS DETROIT, MI 48235

PRELIMINARY
 BAKER ENGINEERING, INC.
 FEB. 29 1993

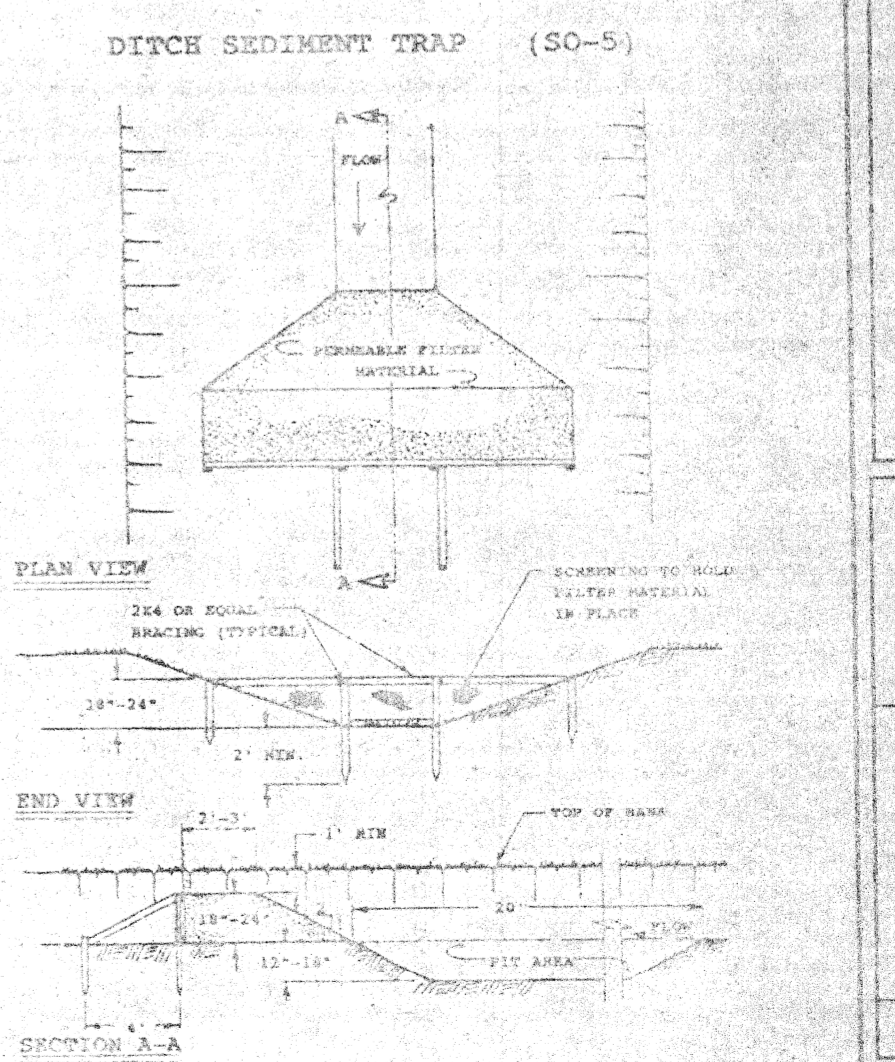
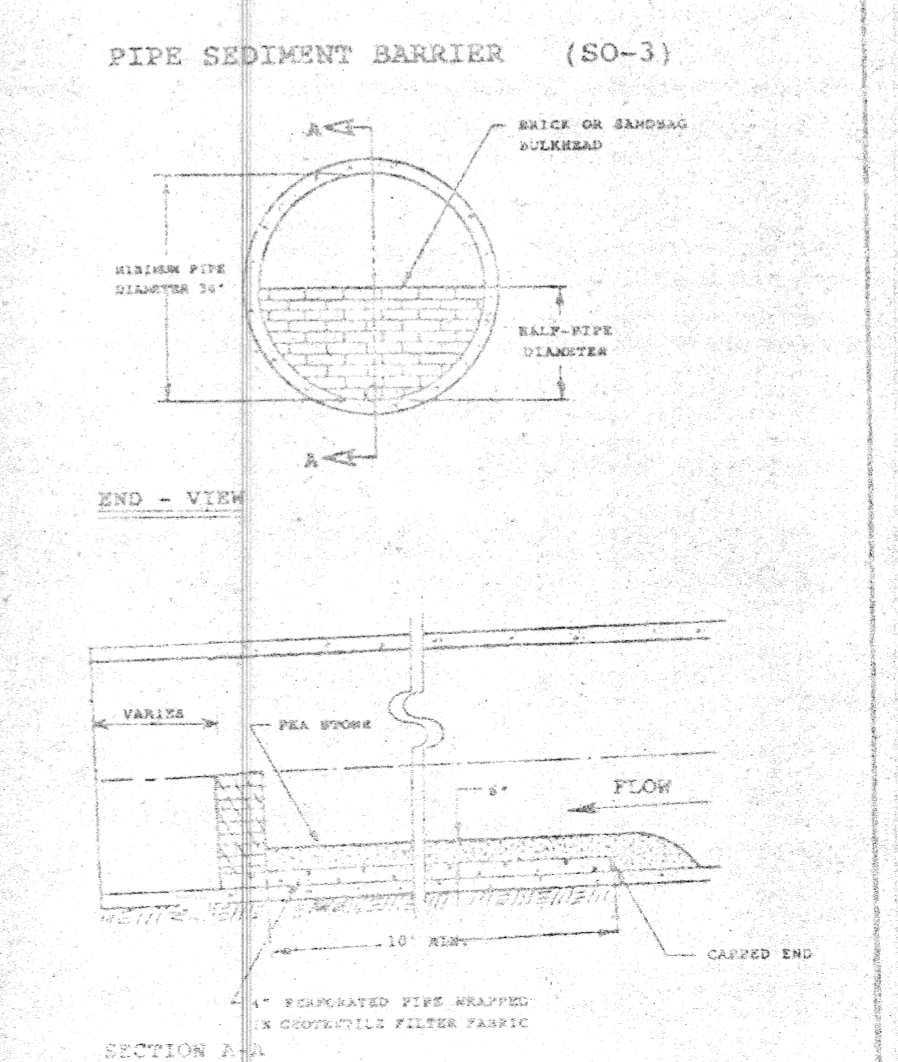
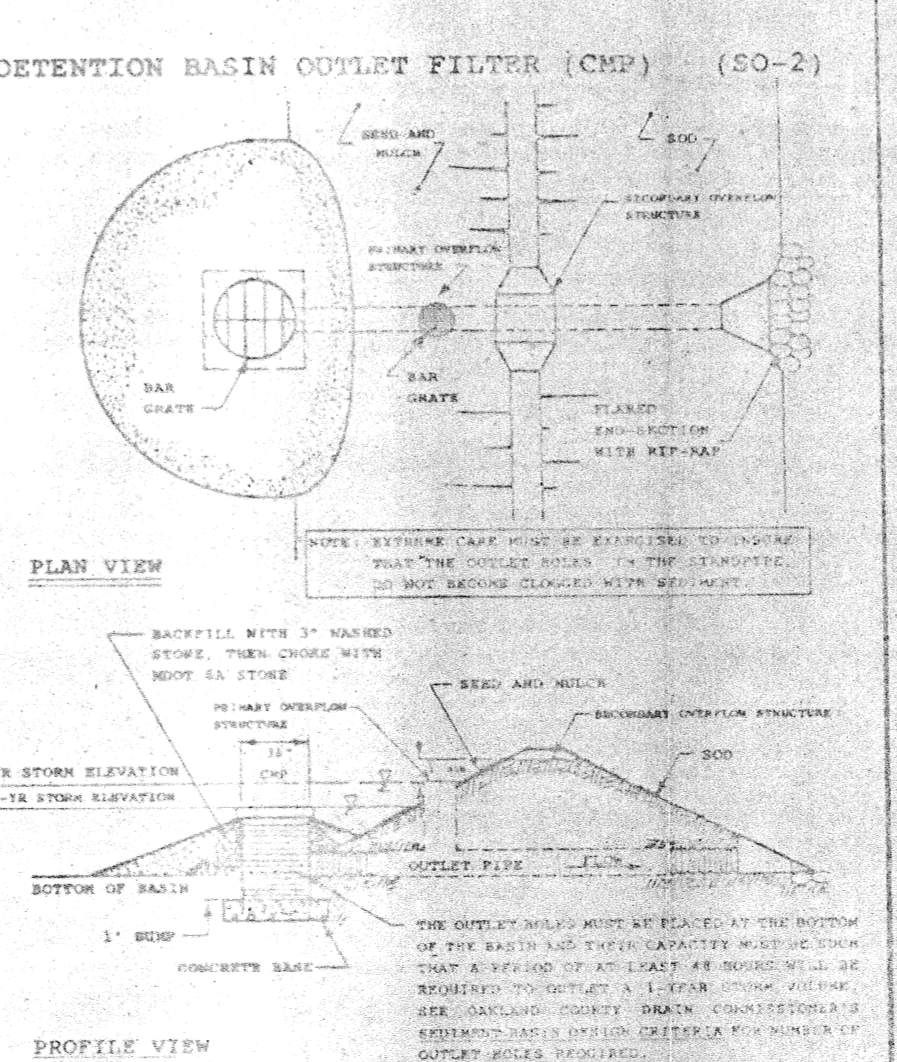
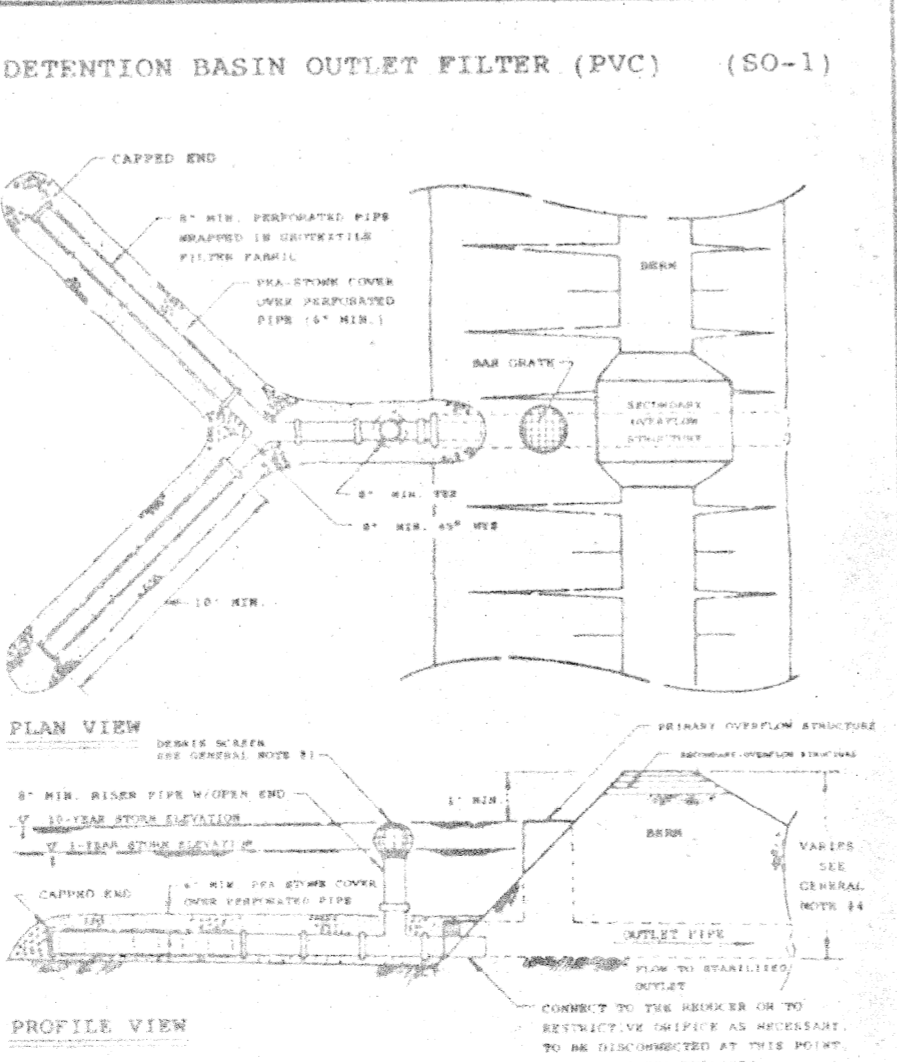
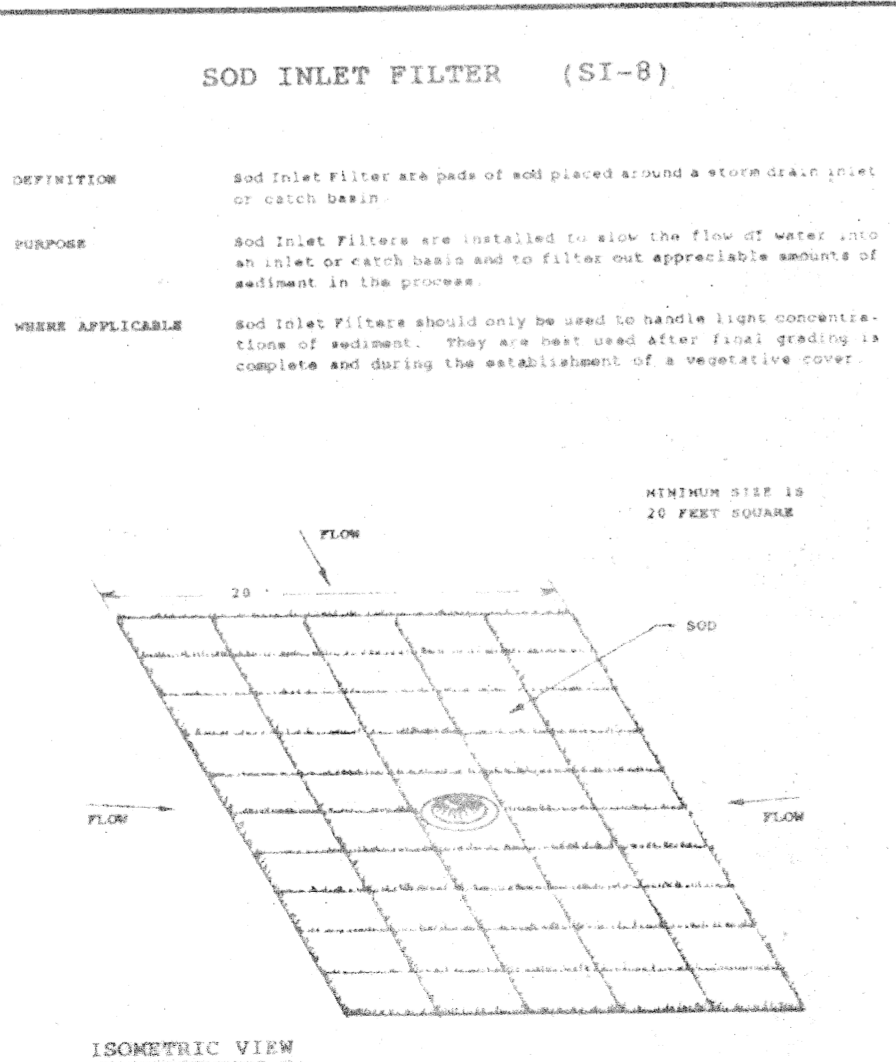
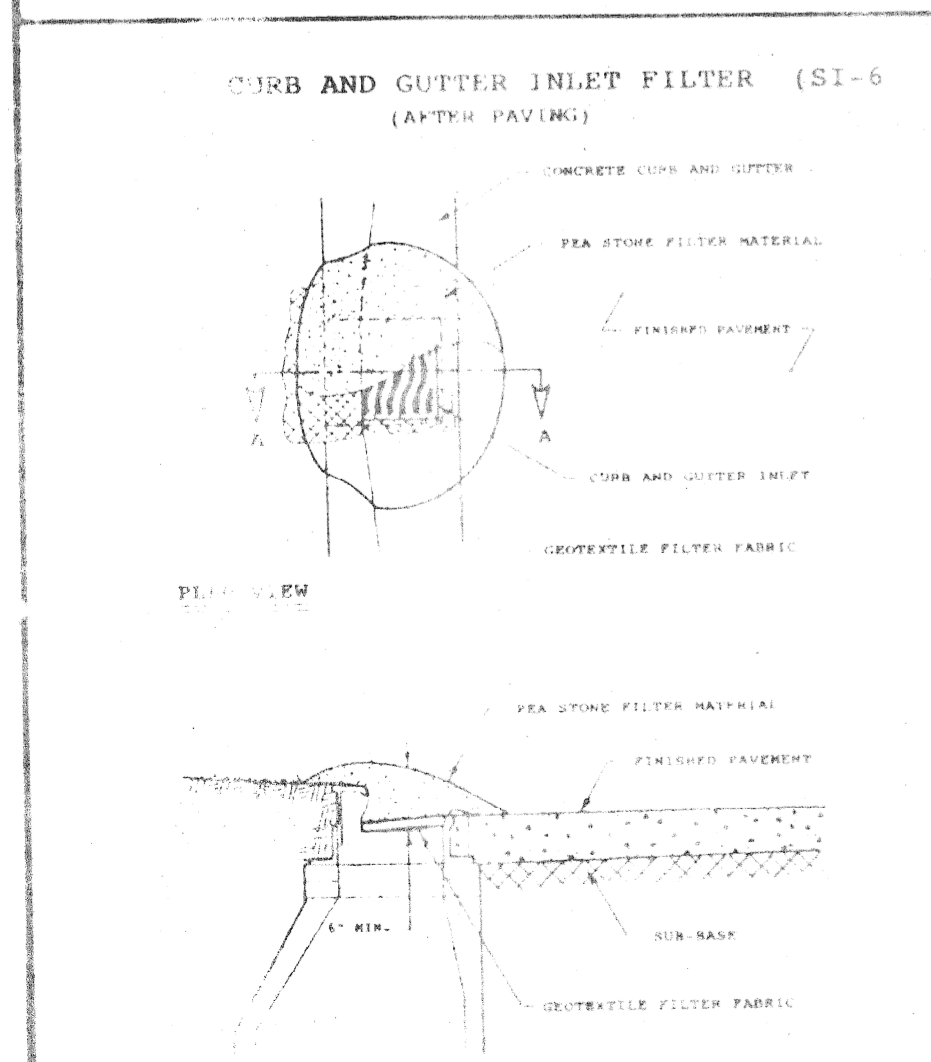
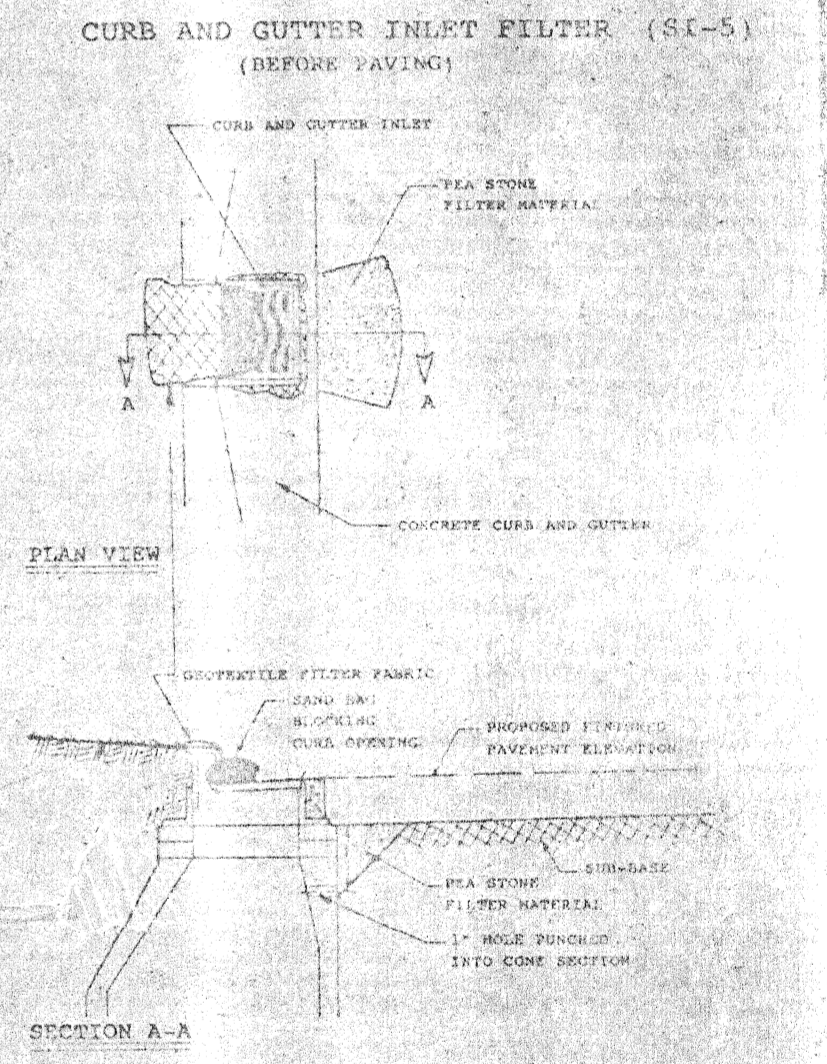
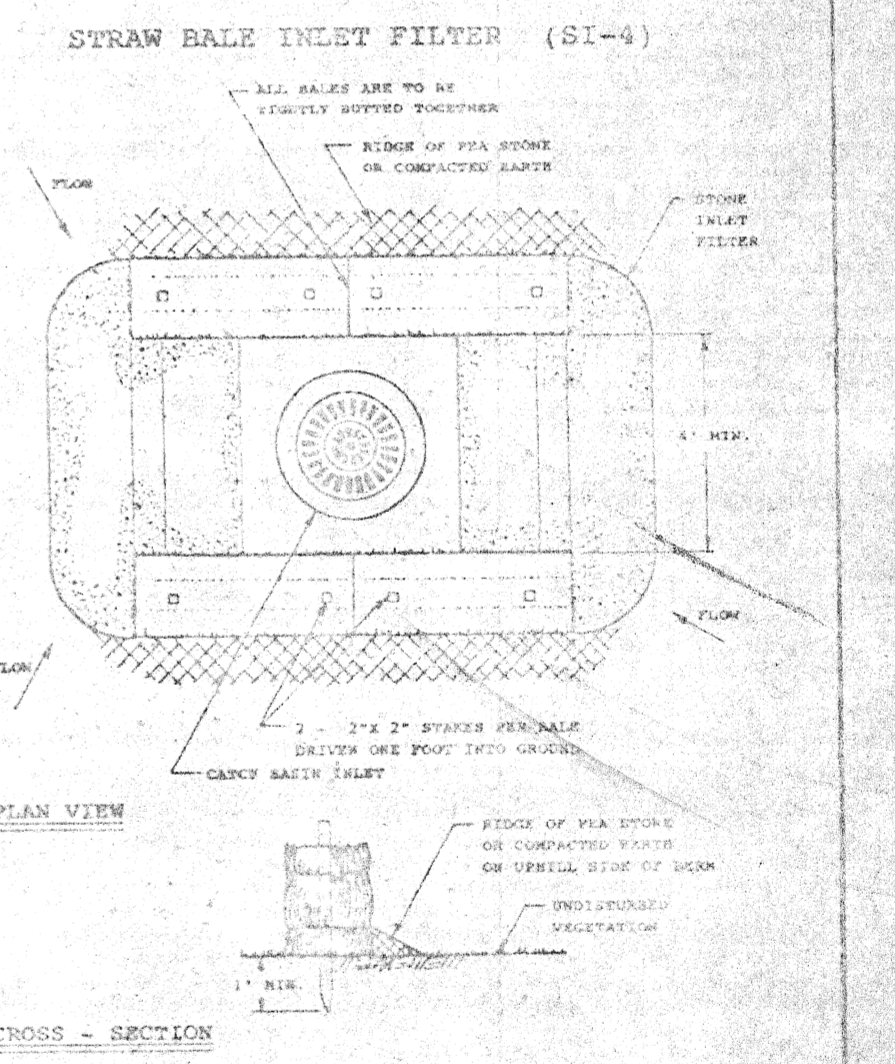
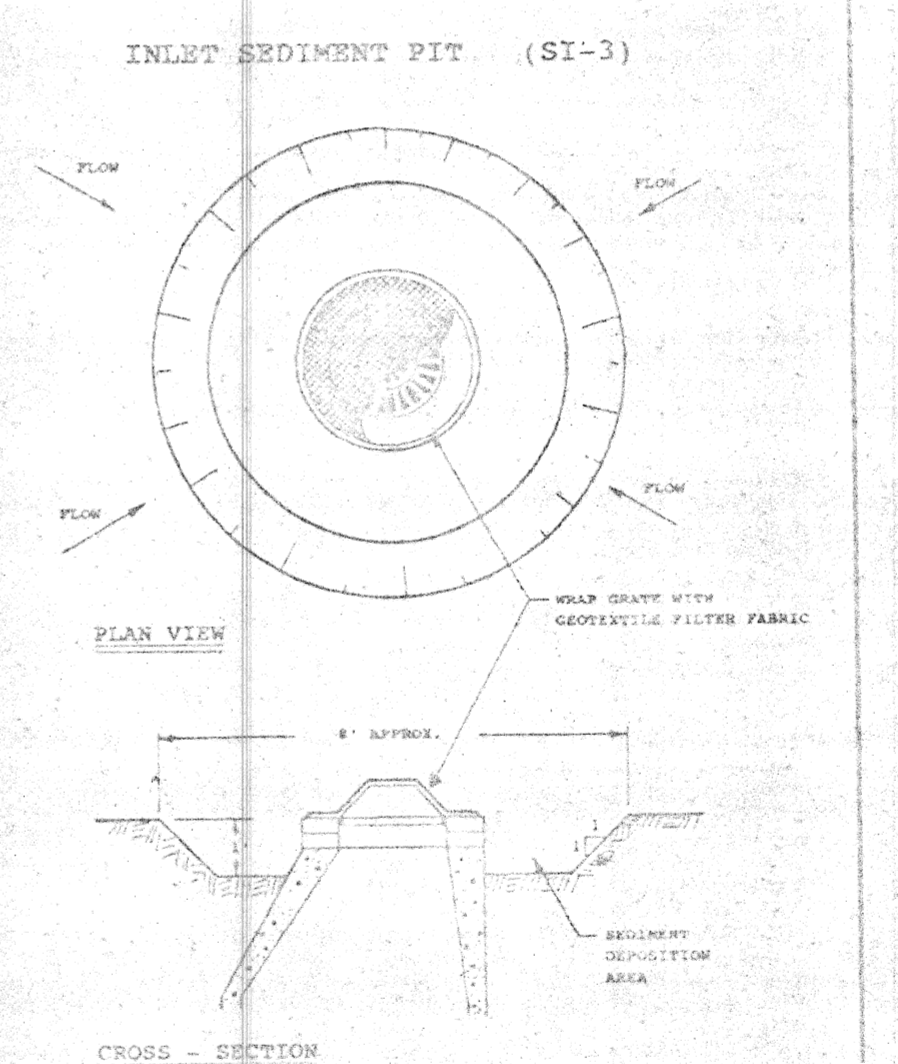
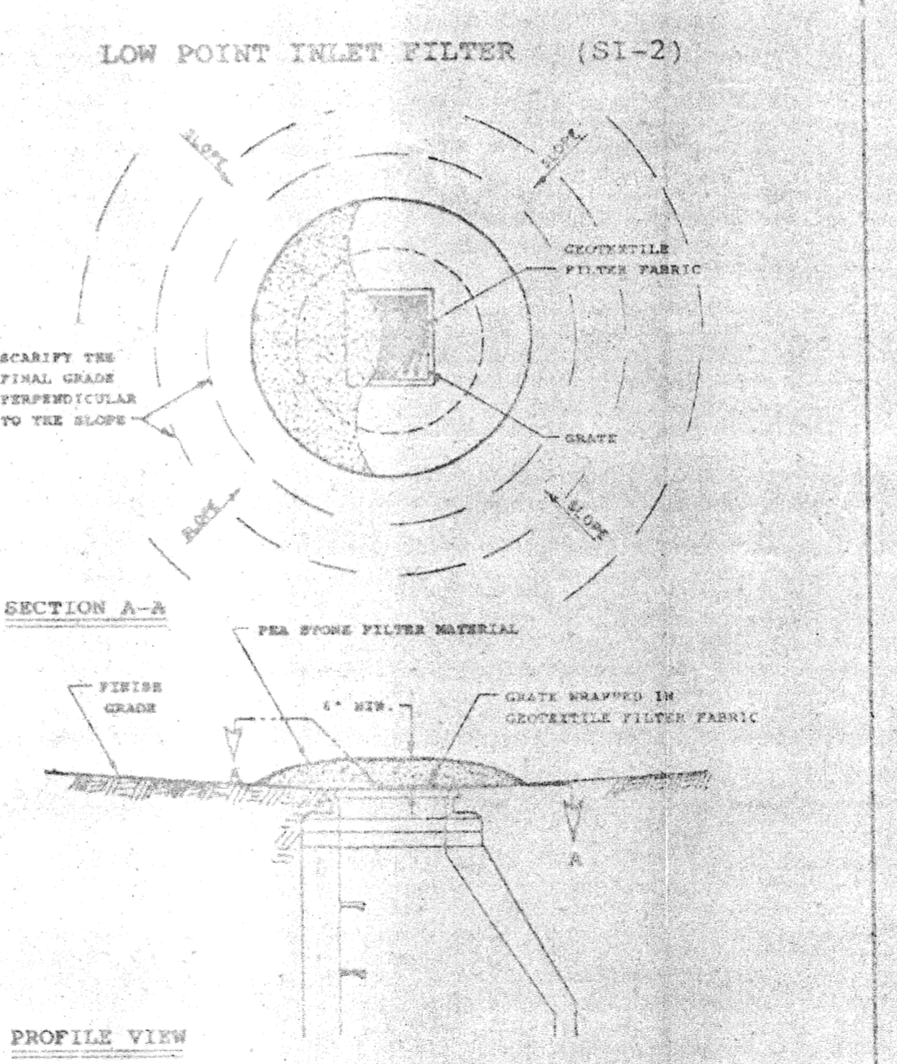
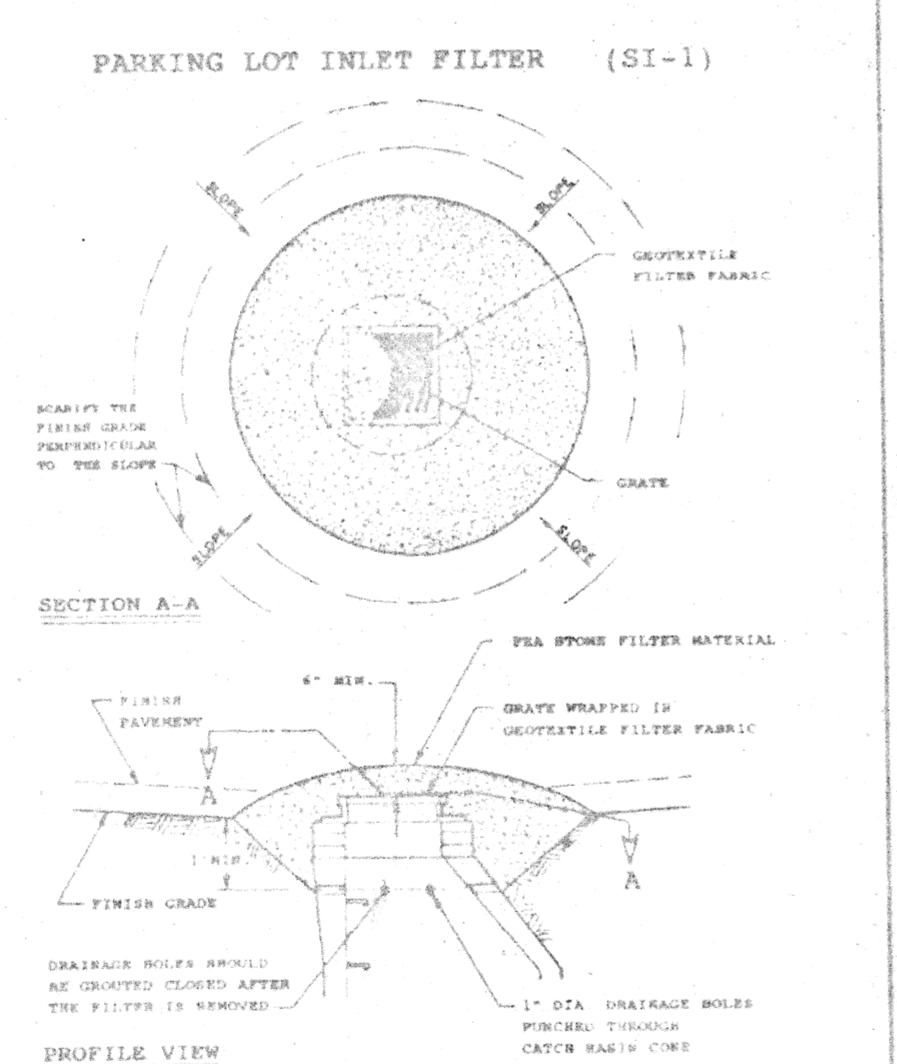
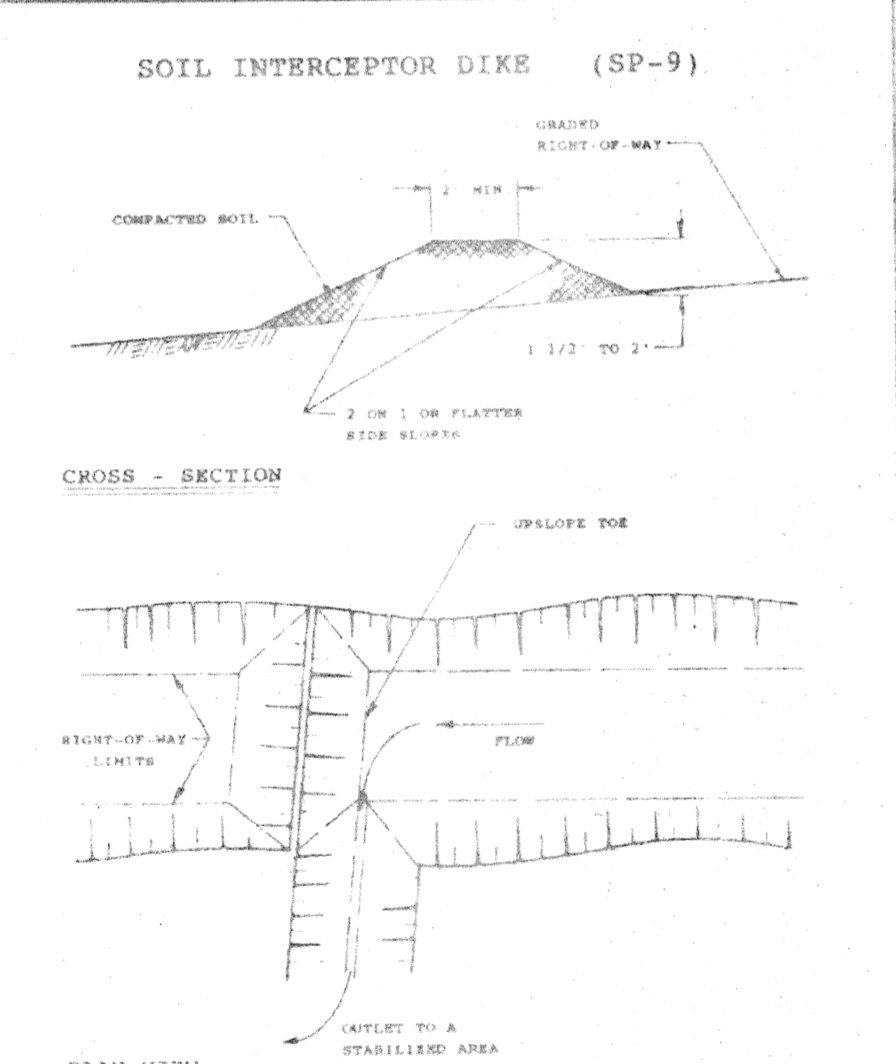
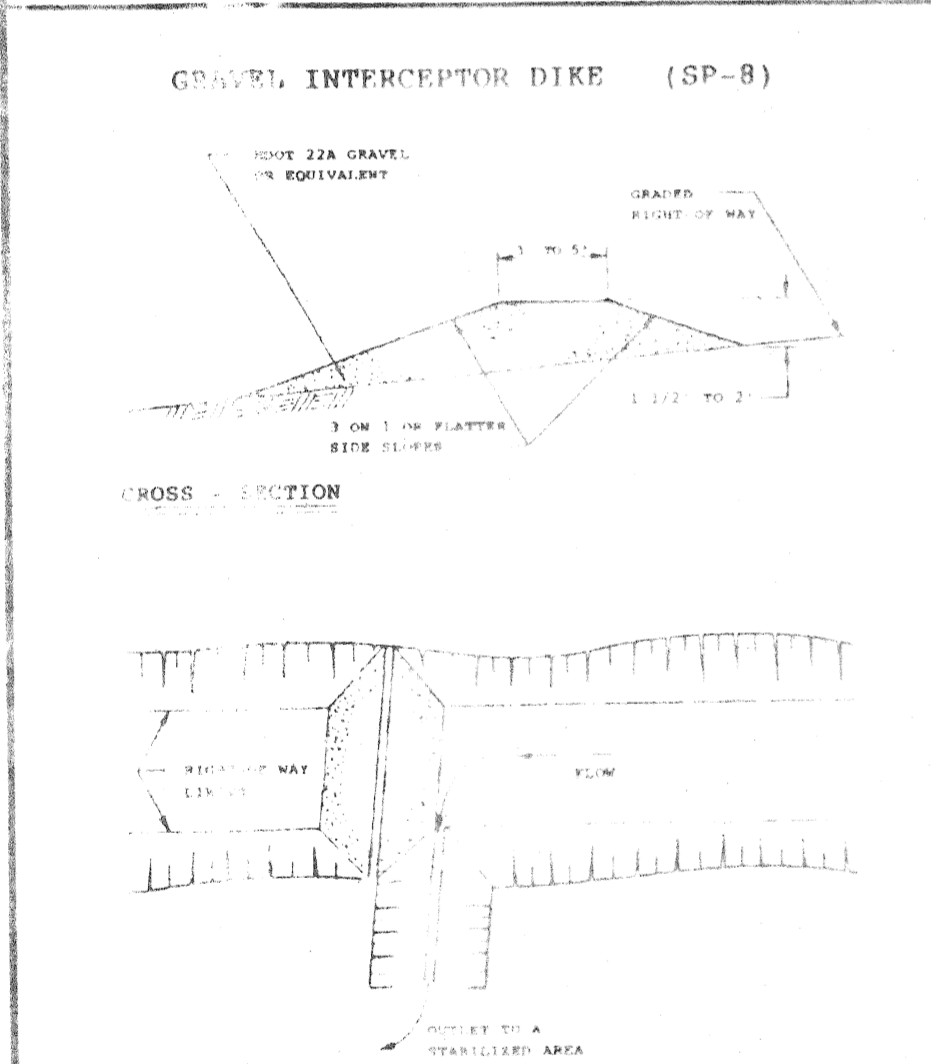
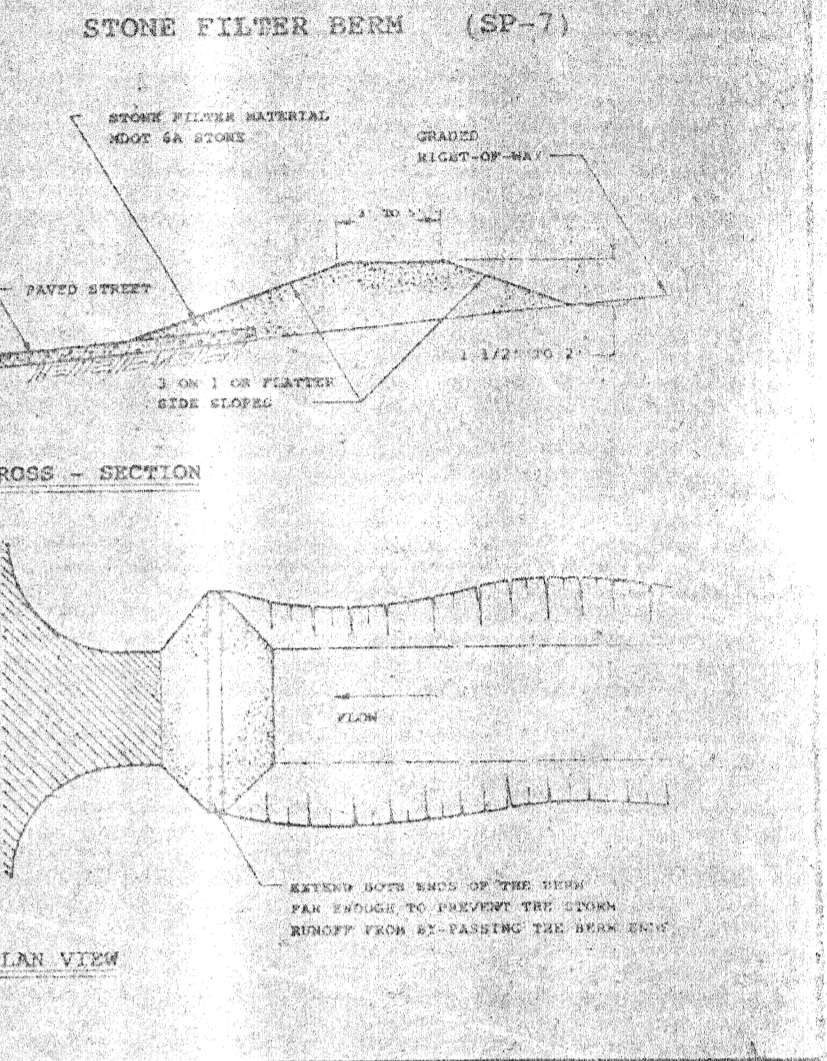
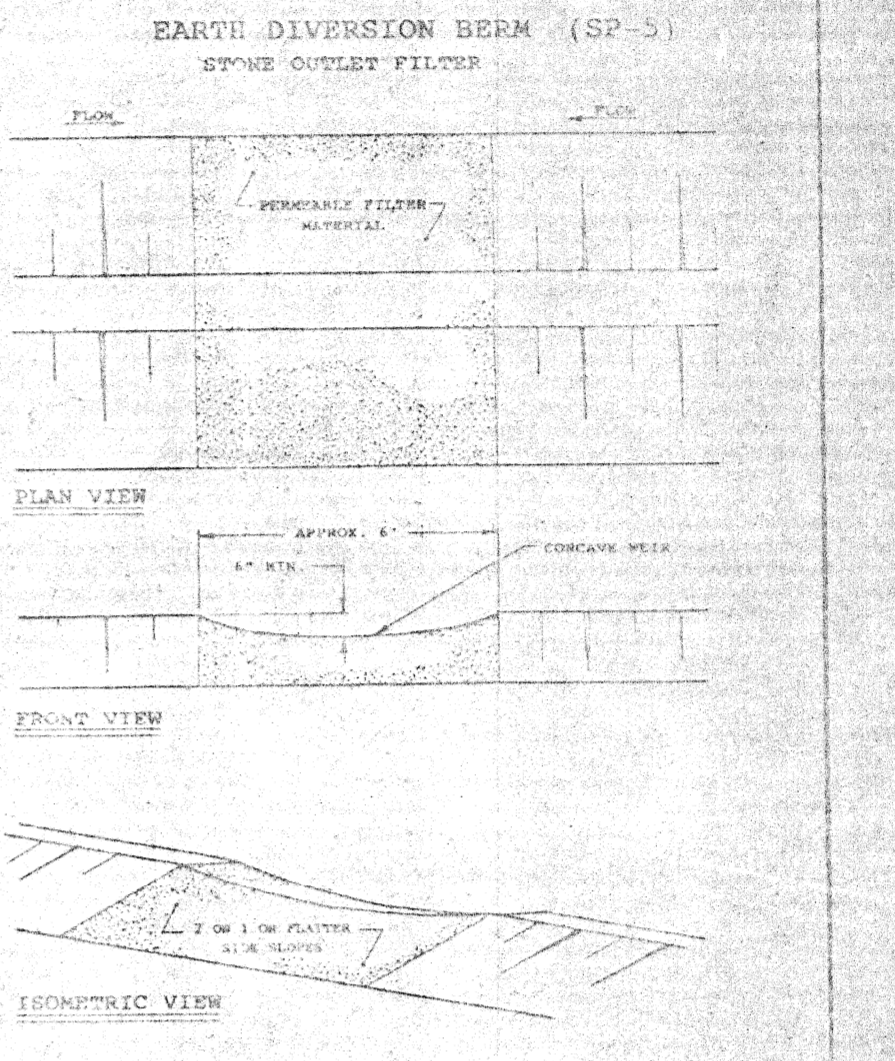
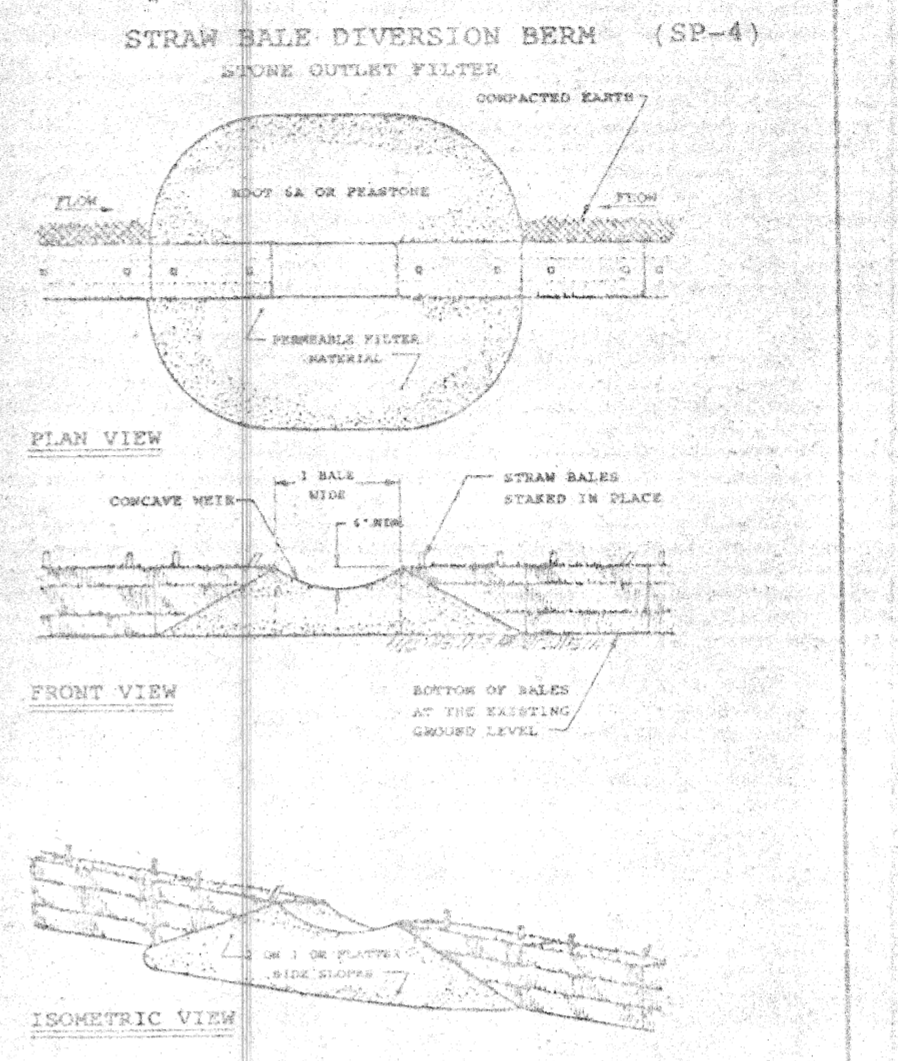
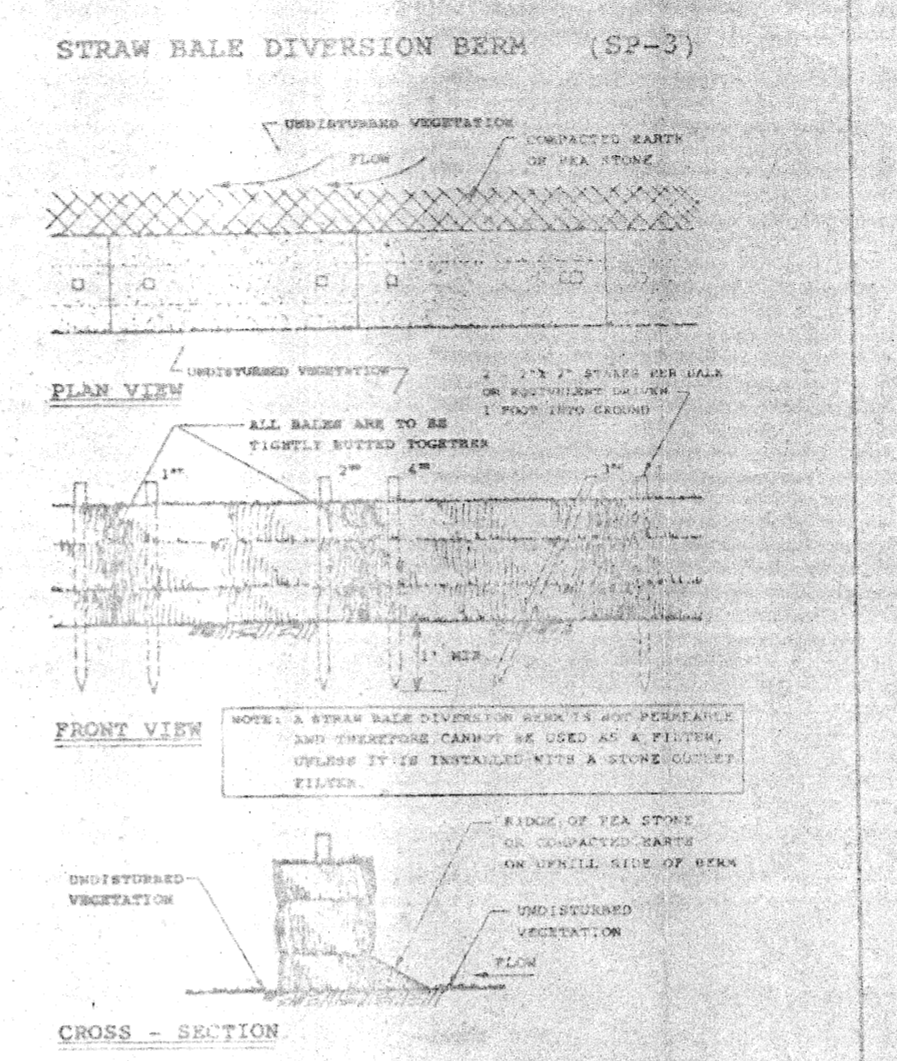
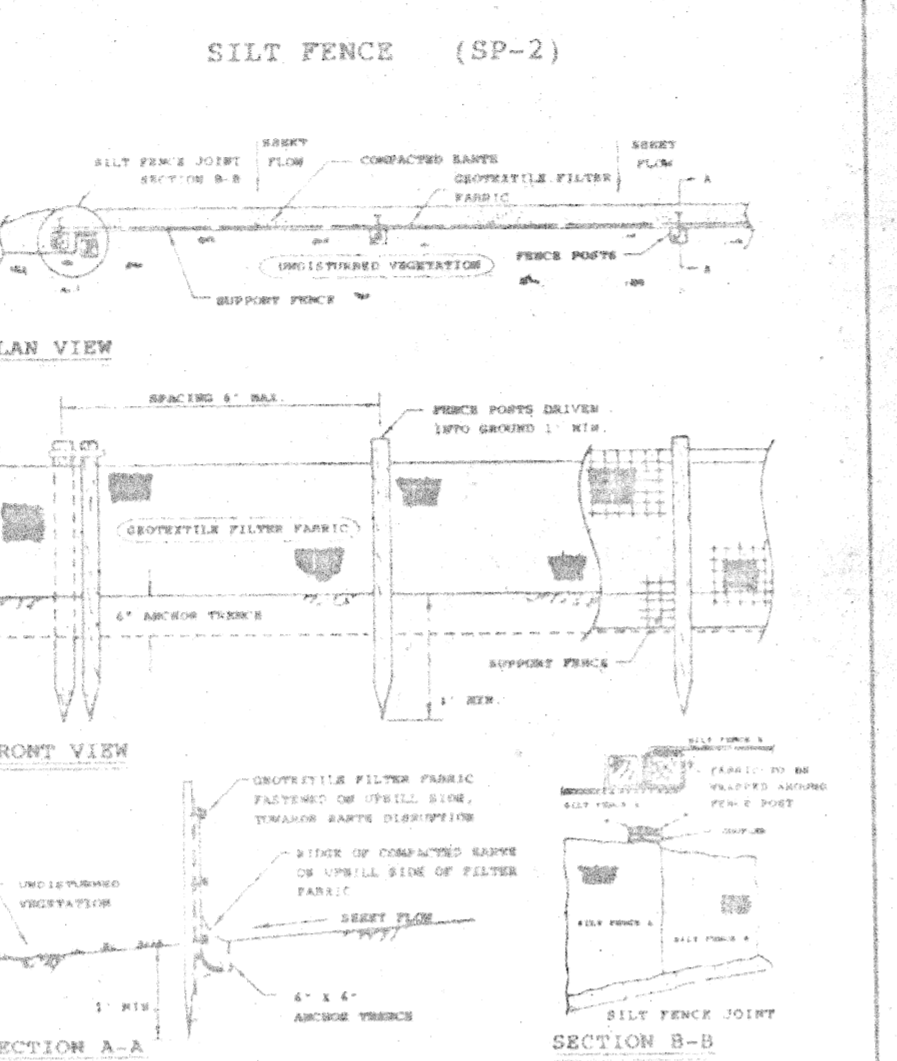
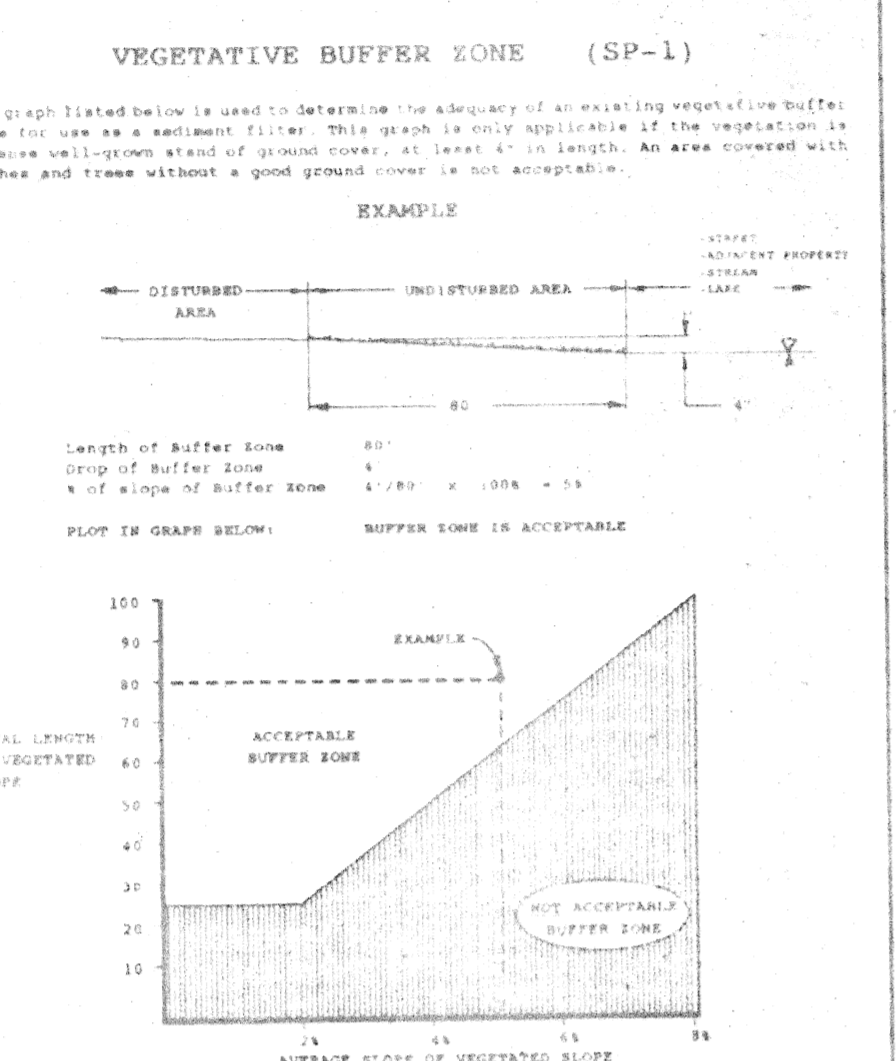
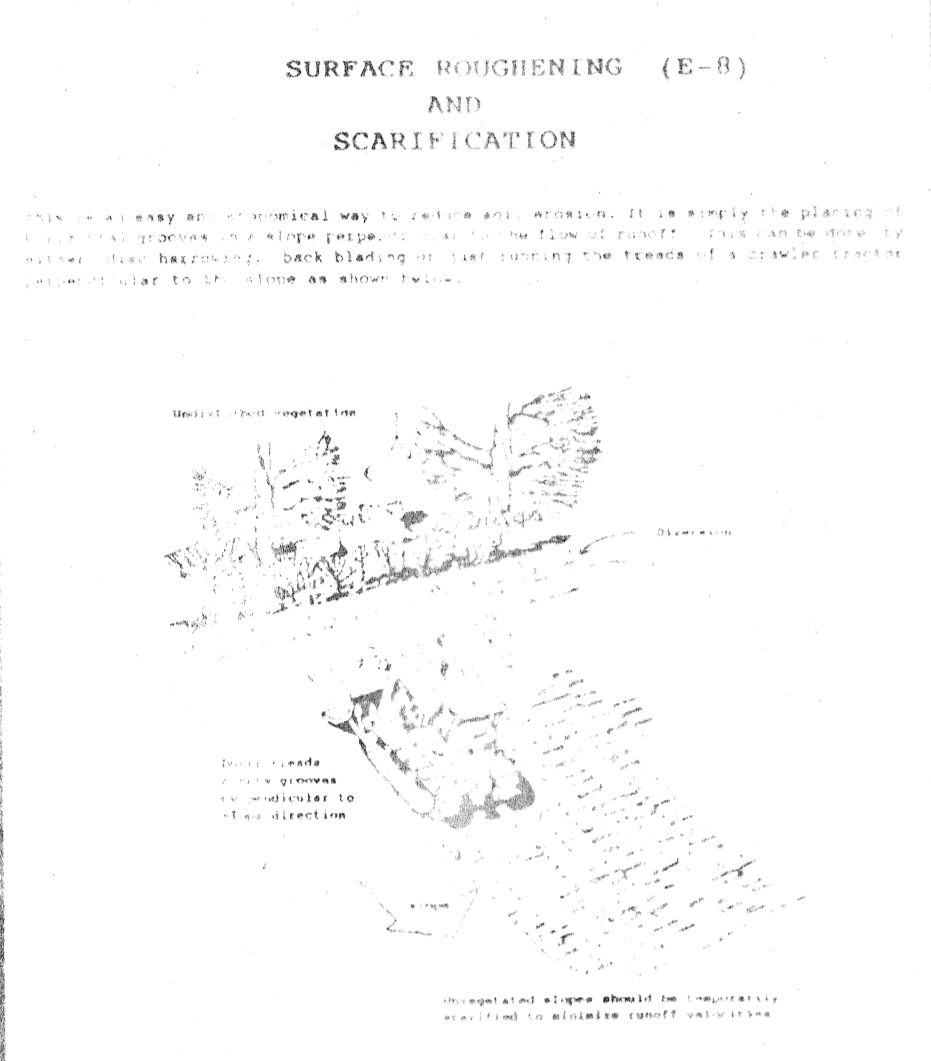
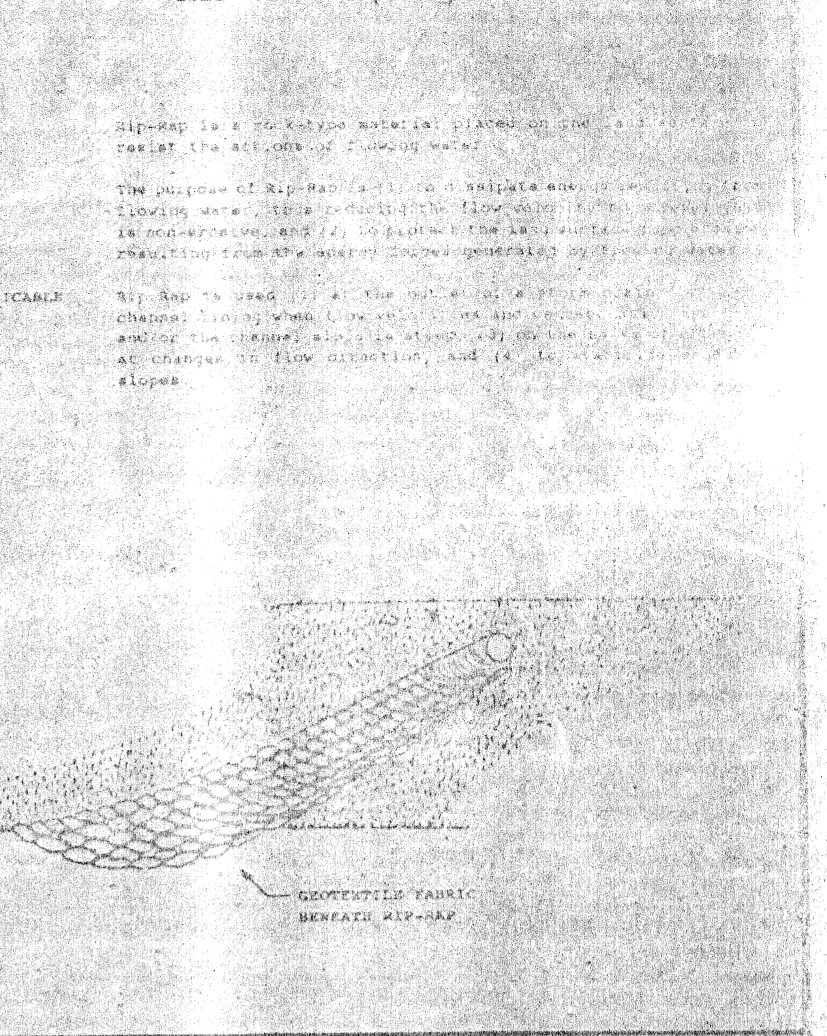
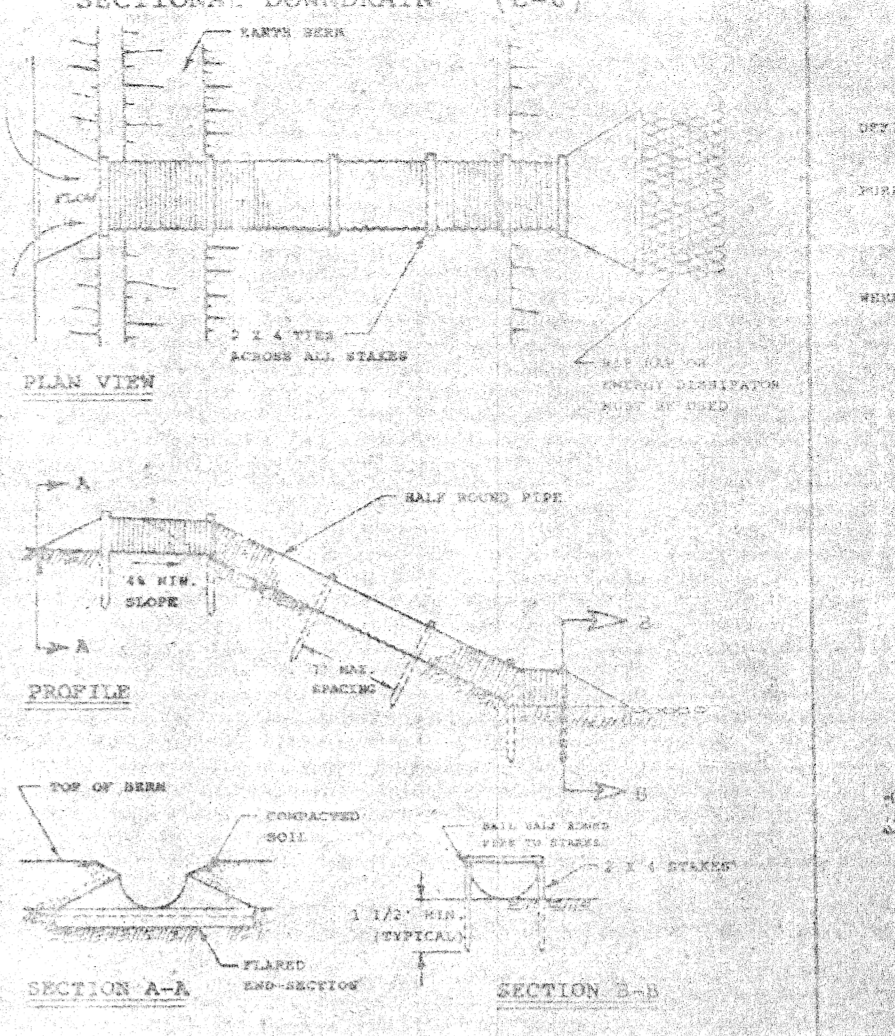
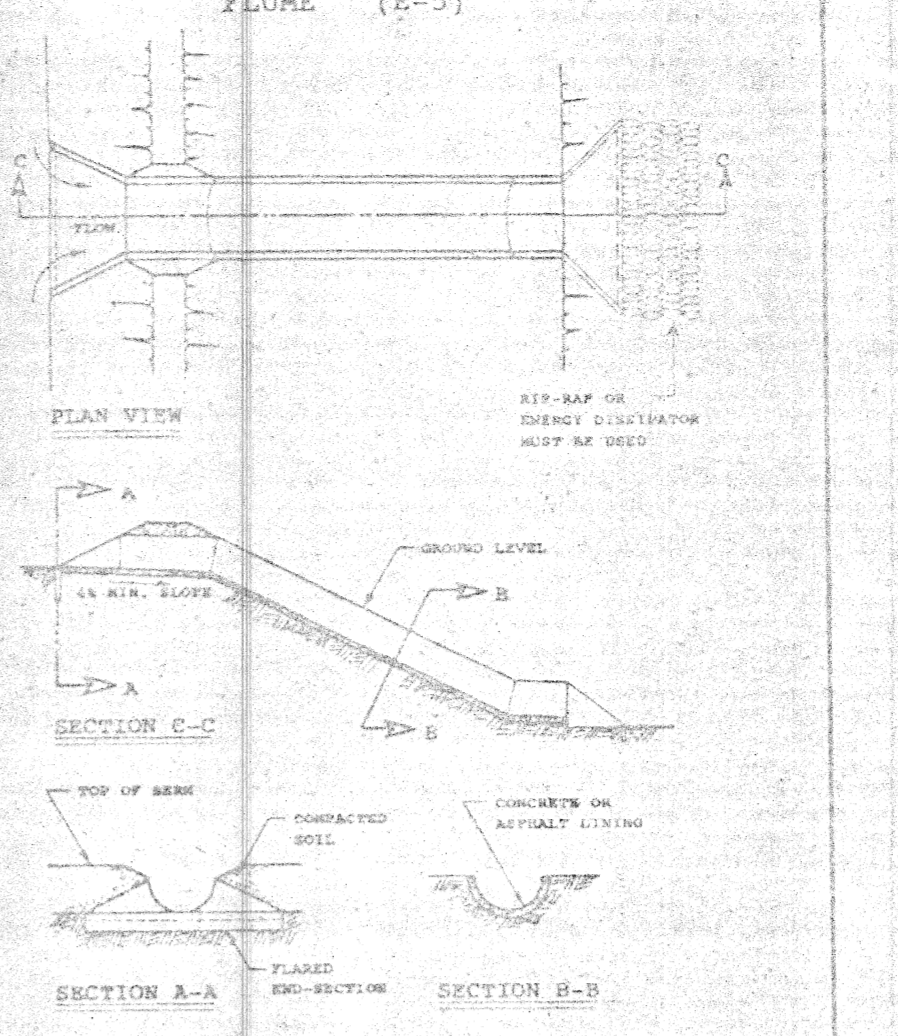
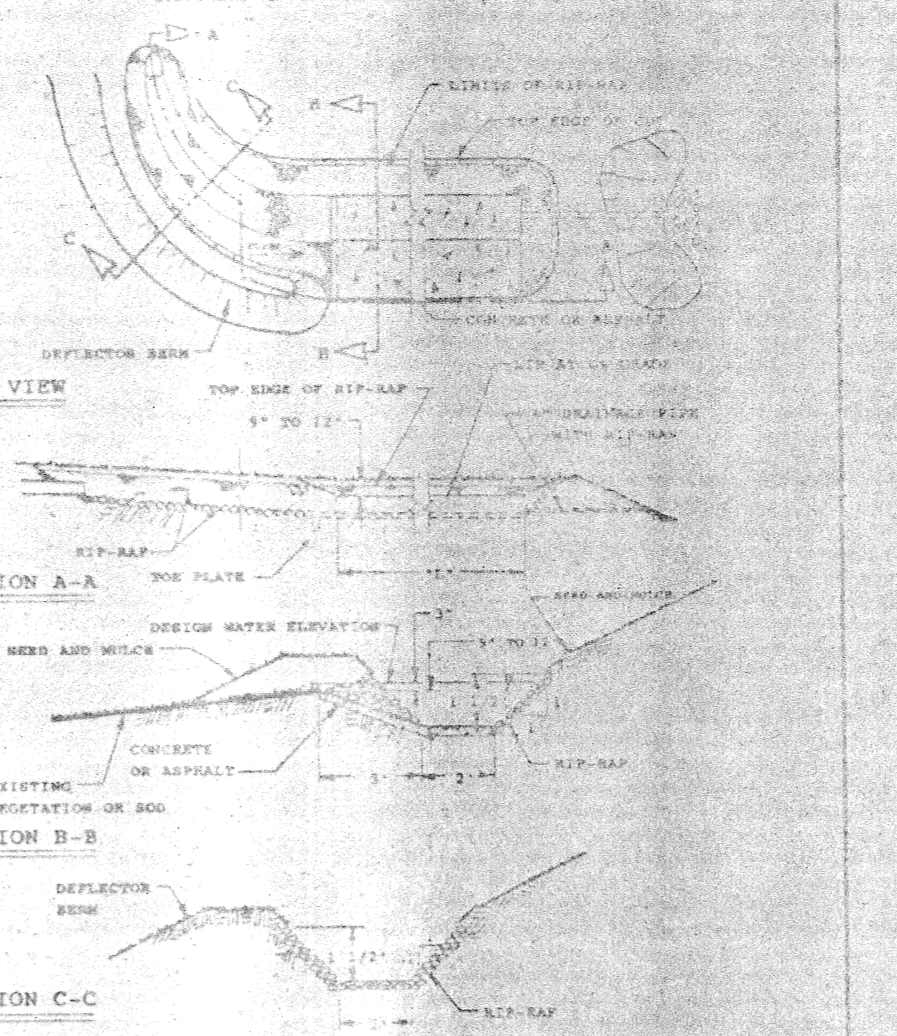
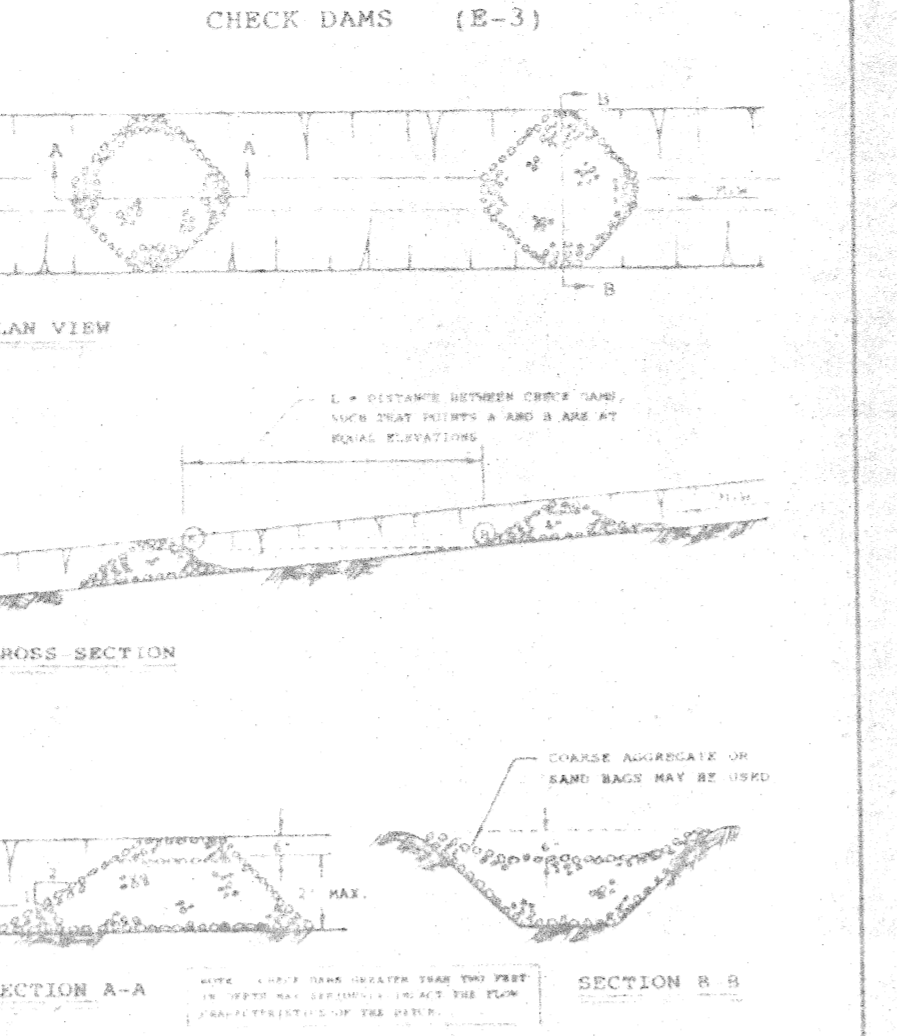
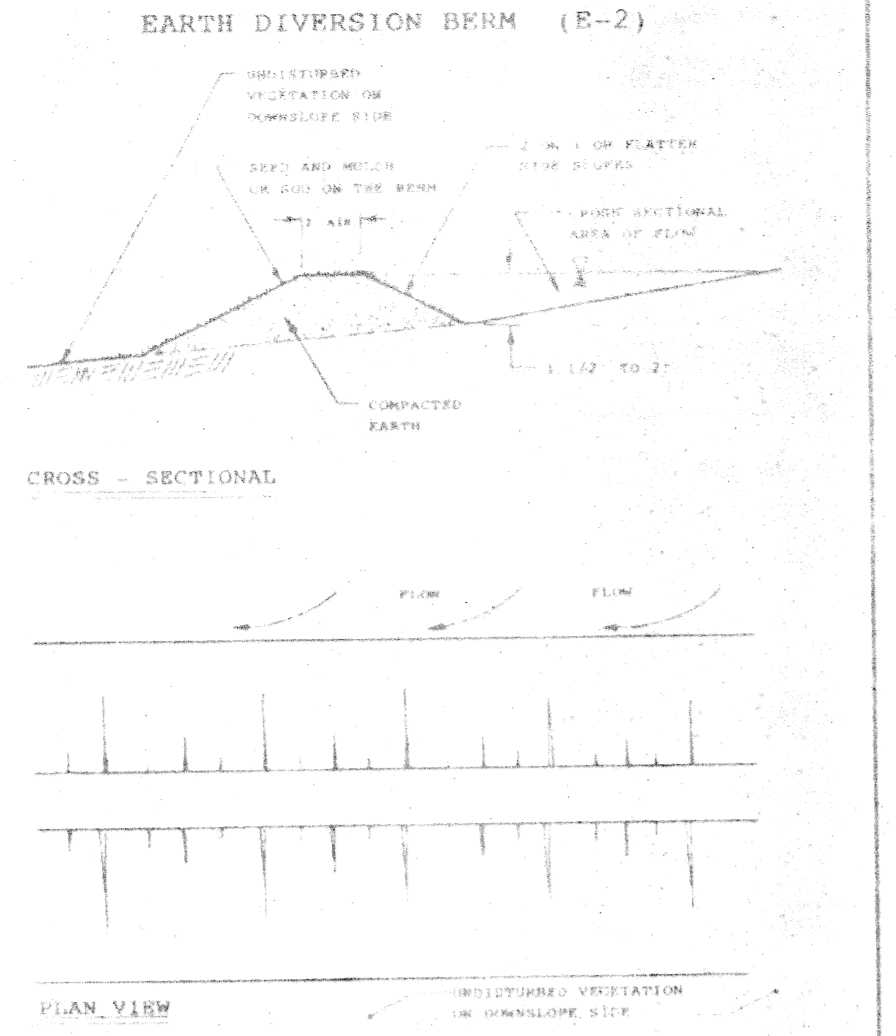
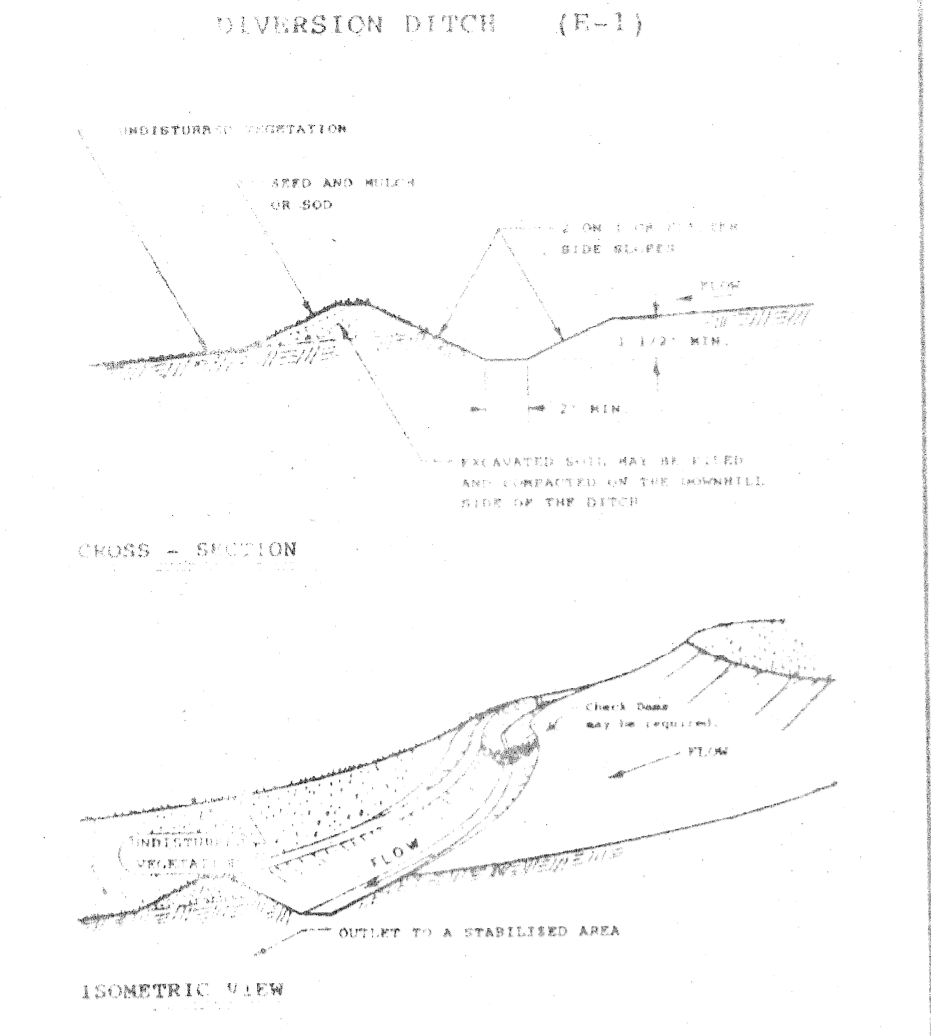
MICHIGAN DEPARTMENT OF TRANSPORTATION
 MOUNT ELLIOTT-MOUND ROAD BRIDGE
 IN THE CITY OF DETROIT
 GENERAL PLAN OF STRUCTURE

REVISIONS			
NO.	DESCRIPTION	DATE	BY

APPROVED _____
 DESIGN SUPERVISING ENGINEER

SQUAD BOSS	NAME	DATE

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NOTE:
ALL OF THE DETAILS SHOWN ON THIS SHEET, ALONG WITH INFORMATION PERTAINING TO PLAN PREPARATION, DESIGN CRITERIA AND GENERAL NOTES, ETC., ARE INCLUDED IN THE OAKLAND COUNTY DRAIN COMMISSIONER'S EROSION CONTROL MANUAL. PLEASE CONTACT THE EROSION CONTROL DIVISION AT (313) 856-0969 TO OBTAIN A COPY OF THE MANUAL.

SOIL EROSION AND SEDIMENTATION CONTROL DETAILS

OAKLAND COUNTY

GEORGE W. KUHN
OAKLAND COUNTY DRAIN COMMISSIONER
ONE PUBLIC WORKS DRIVE, PONTIAC, MICHIGAN 48058

EFFECTIVE DATE: 1/31/90 SHEET OF