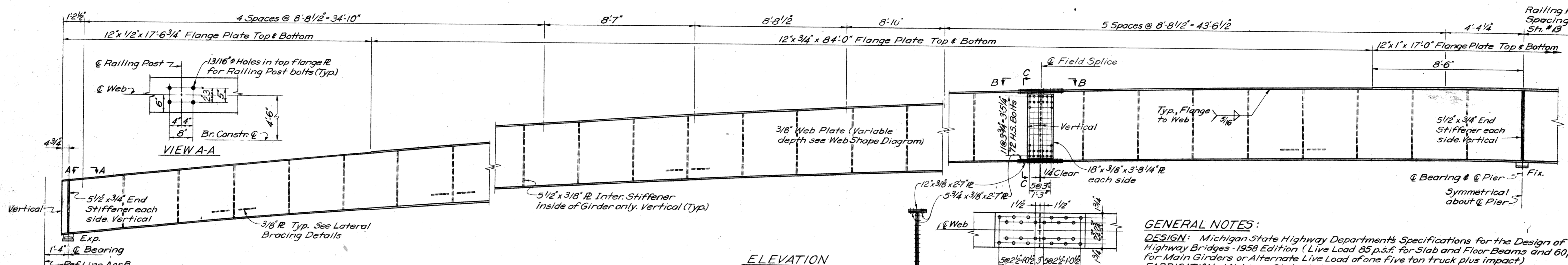


ERECTION PLAN



ELEVATION

SECTION C-C

VIEW B-B

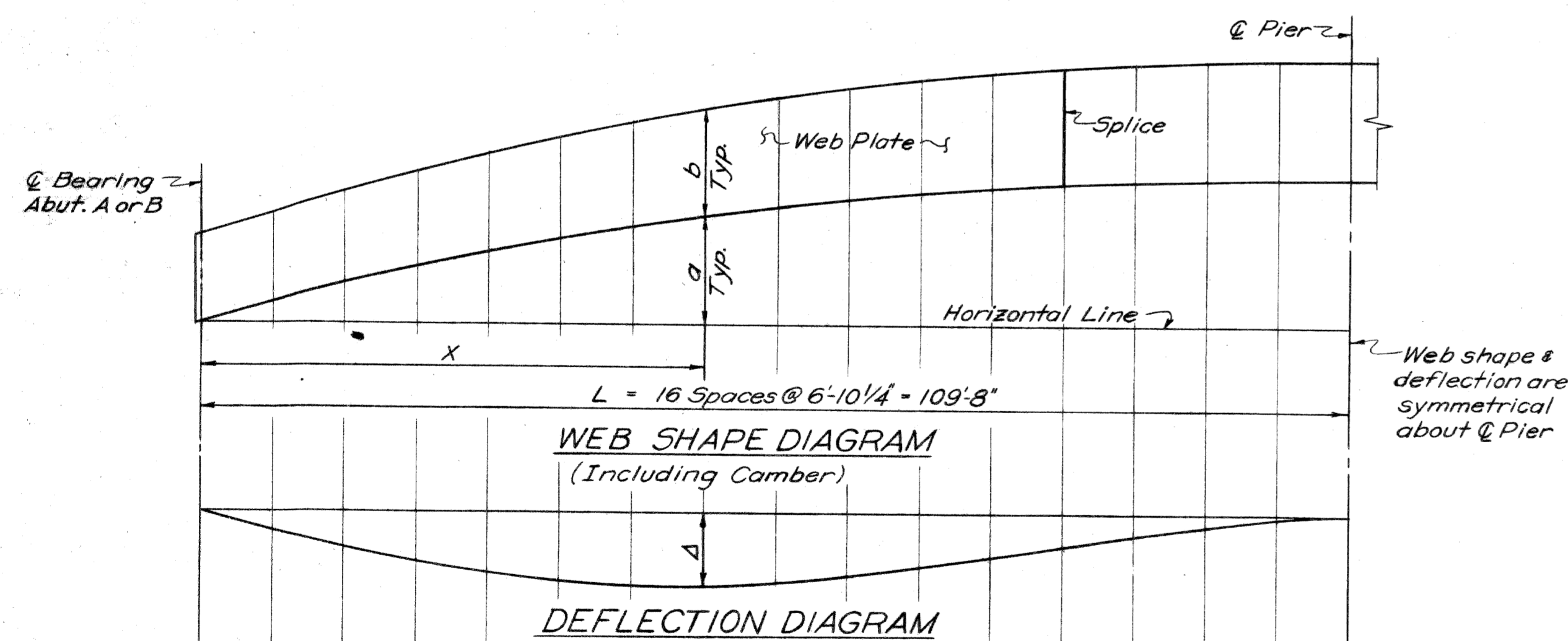
GENERAL NOTES:

**DESIGN:** Michigan State Highway Department's Specifications for the Design of Highway Bridges - 1958 Edition (Live Load 85 p.s.f. for Slab and Floor Beams and 60 p. for Main Girders or Alternate Live Load of one five ton truck plus impact)  
**FABRICATION:** Michigan State Highway Department's Standard Specifications for Road and Bridge Construction - 1967 Edition.  
**SHOP CONNECTIONS:** Shop Connections shall be welded as shown on the plans.  
**FIELD CONNECTIONS:** Field Connections shall be bolted with 3/4" High-strength bolts, except as noted.  
**CAMBER:** Girders are to be cambered as shown. Camber is to be measured with the beam lying on its side. The top and bottom edges of the web are to be cut simultaneously, to the cambered shape shown, to minimize distortion.  
**SHOP PAINT:** In addition to the shop paint provisions of the Standard Specifications the top surfaces of Abut. masonry piers shall be coated in accordance with the requirements for machine finished surfaces.  
**MATERIAL:** Steel in anchor bolts may be ASTM A307  
**REAMING:** Where reaming of holes for field connections is required, such holes shall be sub-punched or sub-drilled 1/4" smaller than the finished hole.  
**WELDING:** Welding on tension flanges of girders will not be permitted unless such welding is shown on the plans or specified. Welding at other locations on the beams and girders, except where shown on the plans, may be permitted by written authorization providing the welding is to be performed in strict accordance with all specification requirements for structural welding.

QUANTITIES: Elastomeric Bearing Pad 2 Sq. Ft.

The quantity "Structural Steel - Furnishing & Fabricating" includes:  
 A441 Steel (includes Metal Exp. Uts., Drain Frames & Grates) 65,900 lbs.  
 Bronze Plates 100 lbs.  
 Structural Steel - Furnishing & Fabricating (Total) 66,000 lbs.  
 Structural Steel Erection 66,000 lbs.  
 Field Painting\* Lump Sum

Finish Coat of Field Paint for Structural Steel shall be paint number 5B.



X/L	0	1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16	1
a	0"	8 13/16"	1'-4 11/16"	1'-11 3/16"	2'-5 3/16"	2'-10 2/8"	3'-3 1/2"	3'-7 3/8"	3'-11 1/2"	4'-2 5/8"	4'-5 1/4"	4'-7 7/8"	4'-9 1/8"	4'-10 9/16"	4'-11 1/8"	4'-11 5/8"	4'-11 5/8"
b	3'-0"	3'-0"	3'-0 15/16"	3'-2 1/2"	3'-3 3/8"	3'-5 3/8"	3'-6 3/8"	3'-7 7/8"	3'-8 3/8"	3'-9 1/4"	3'-10"	3'-10 9/16"	3'-11 1/8"	3'-11 1/2"	3'-11 3/4"	3'-11 9/16"	4'-0"
ΔBm.Wt.	0"	1/8"	1/4"	3/8"	1/2"	1/2"	9/16"	9/16"	1/2"	1/2"	7/16"	5/16"	1/4"	3/16"	1/8"	1/16"	0"
ΔD.L.	0"	5/8"	1 1/4"	1 5/8"	2 1/16"	2 5/16"	2 7/16"	2 7/16"	2 9/16"	2 11/16"	1 3/16"	1 7/16"	1 1/8"	3/4"	7/16"	3/16"	0"

Note: Web Shape Diagram includes camber for vertical curve offset and summation of dead load deflections. (ΔBm.Wt. + Δslab + railing = ΔD.L.)

Work this Sheet with Sheet #11

MICHIGAN DEPARTMENT OF STATE HIGHWAY

SELDEN AVE. PEDESTRIAN BRIDGE  
CROSSING THE JEFFRIES FREEWAY IN DETROIT

STRUCTURAL STEEL DETAILS

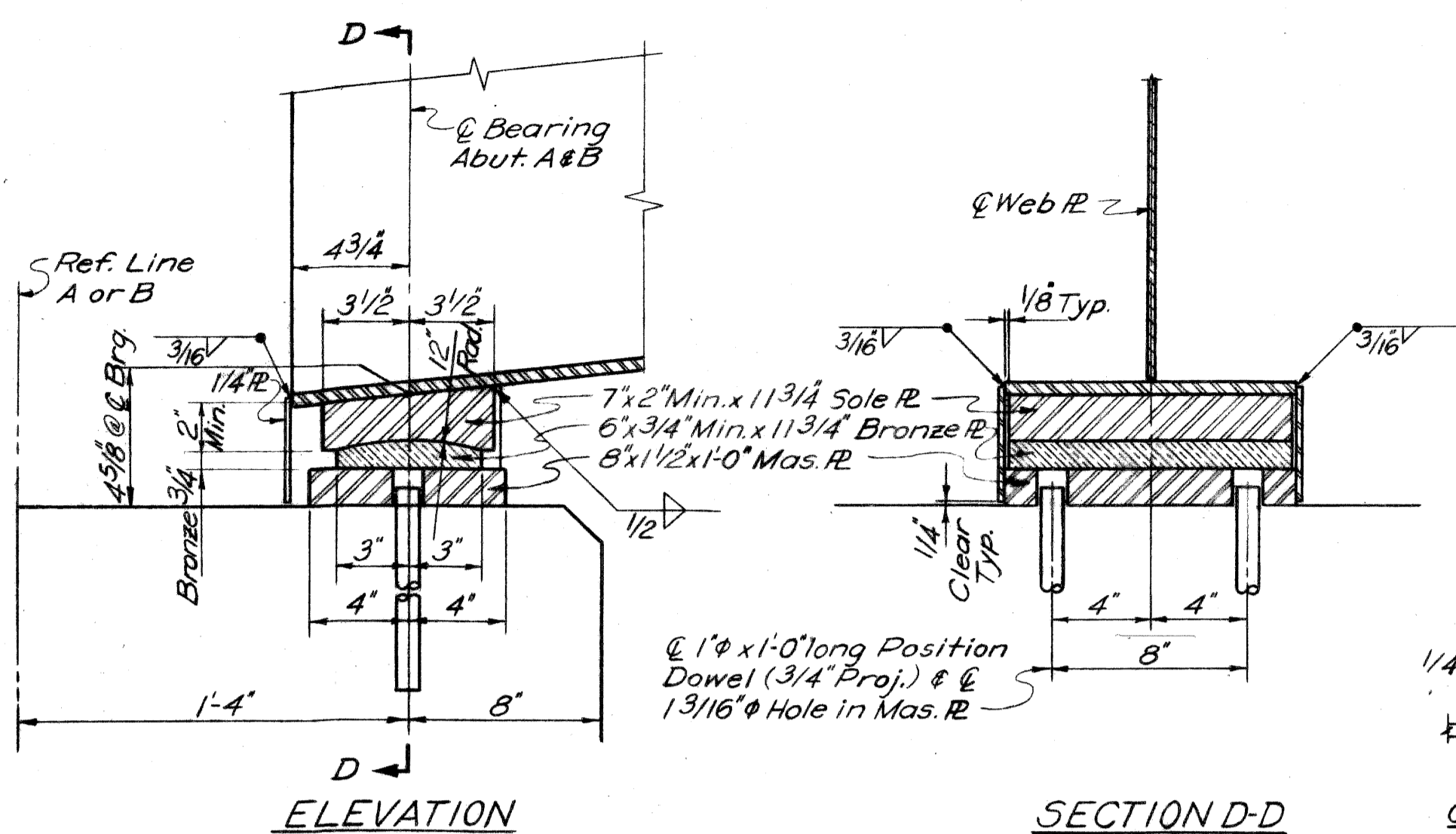
PLANS PREPARED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

JOB No.  
PW 990(1)

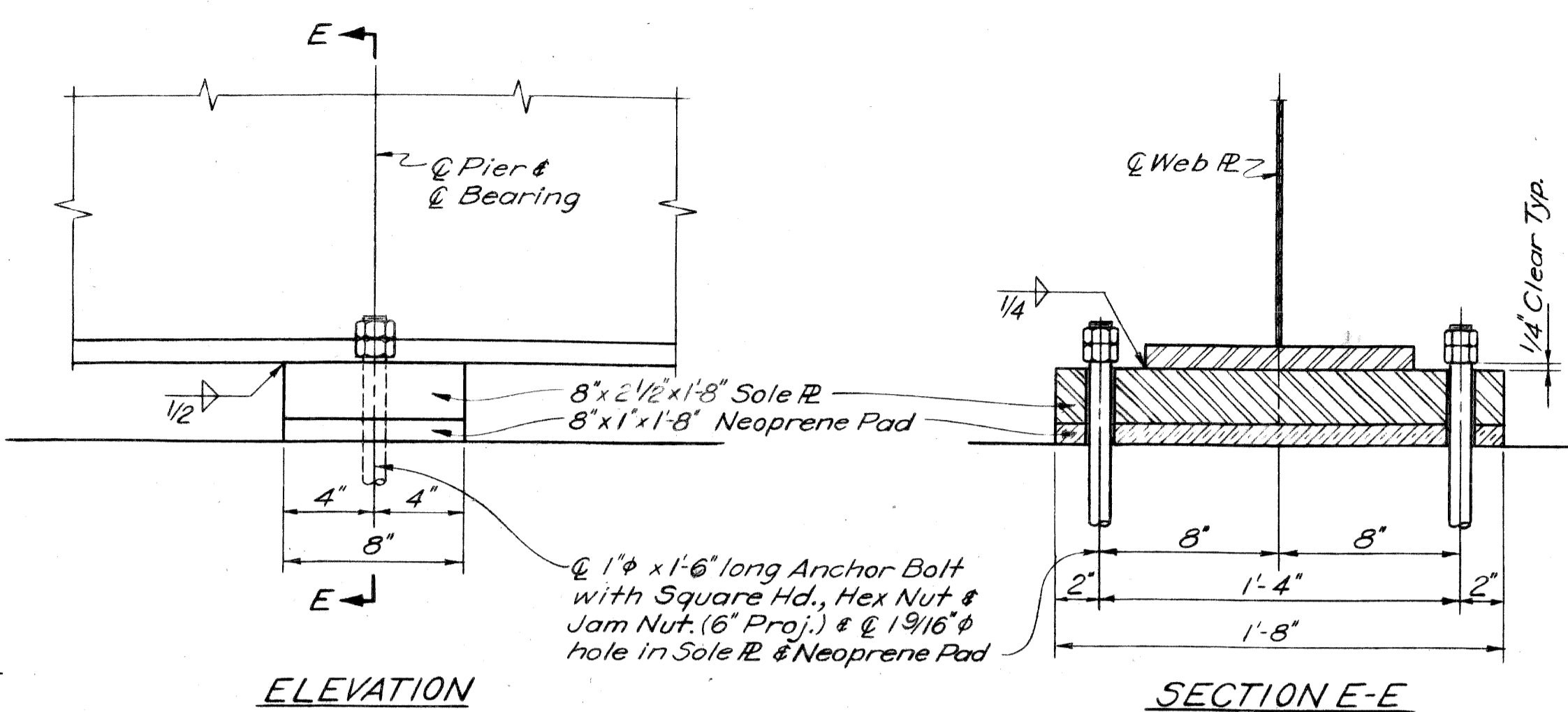
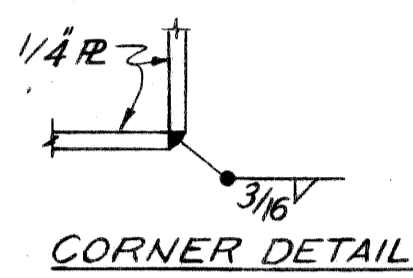
CITY OF DETROIT	5-6
SQUAD BOSS	STU/EM
DRAWN BY	K.M.H.
TRACED BY	
CHECKED BY	STU/EM
SHEET	10 OF 14

POI of 82124 A

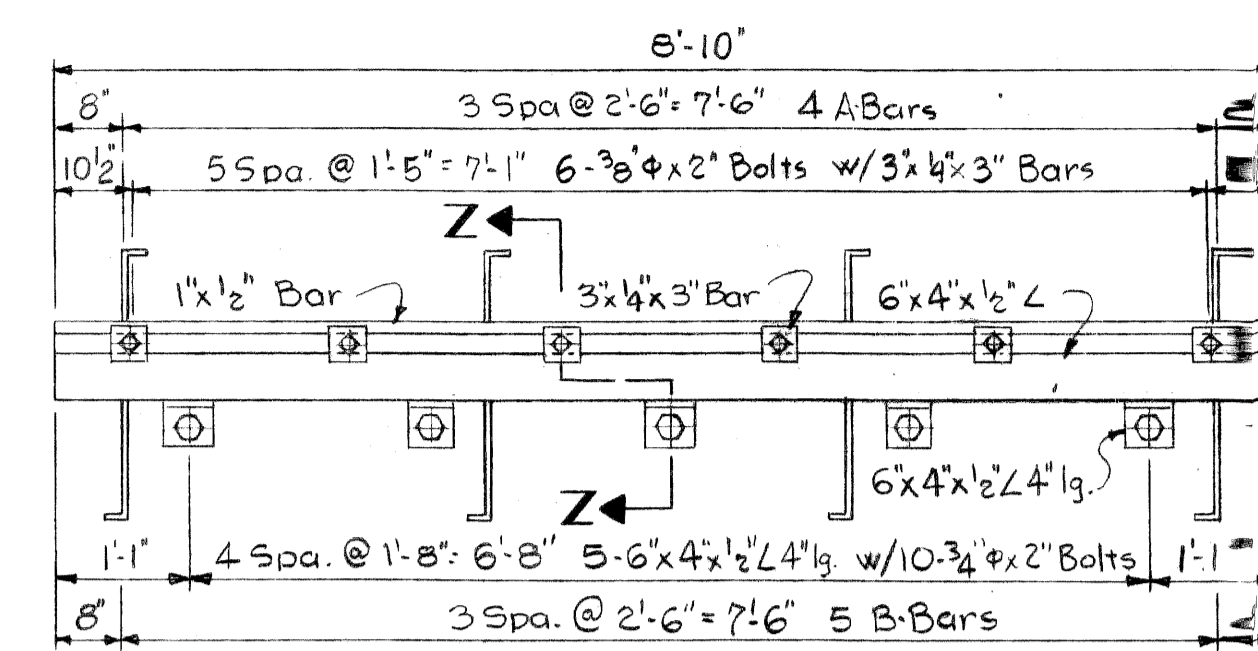




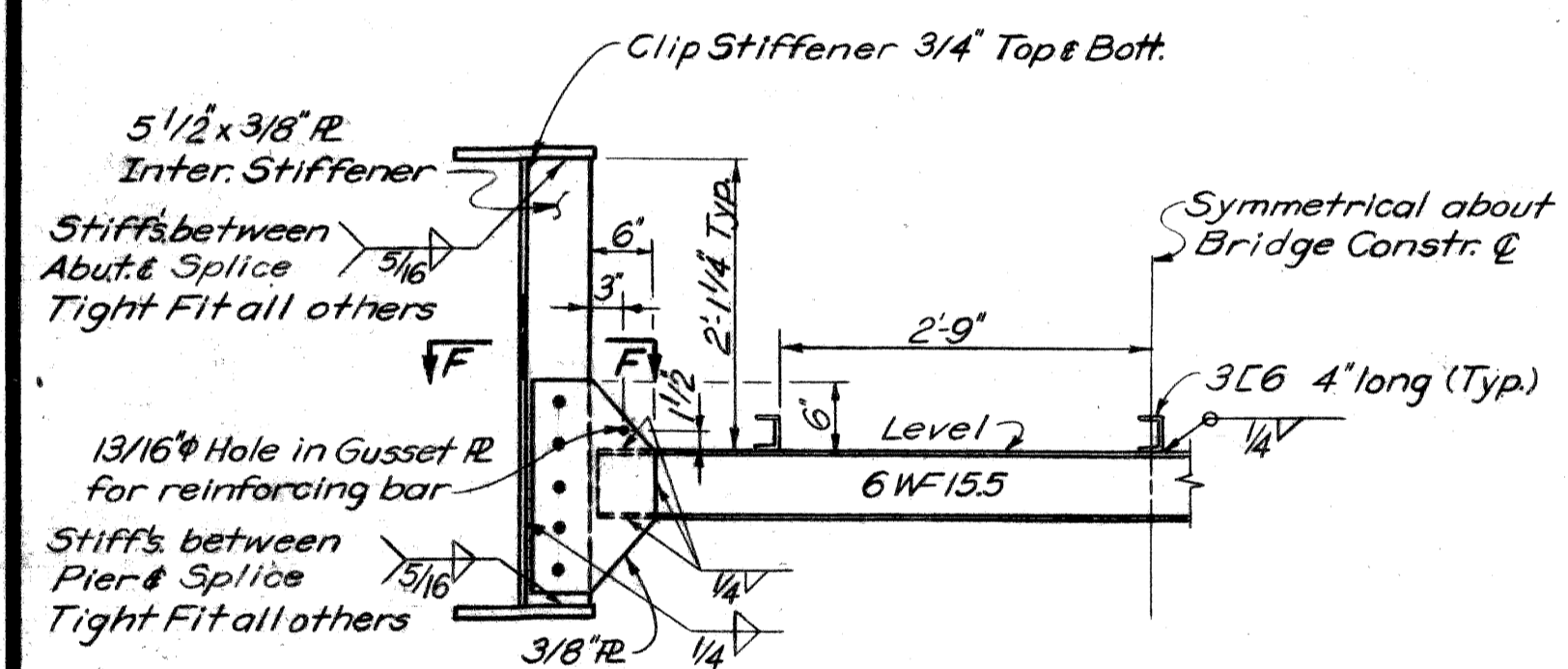
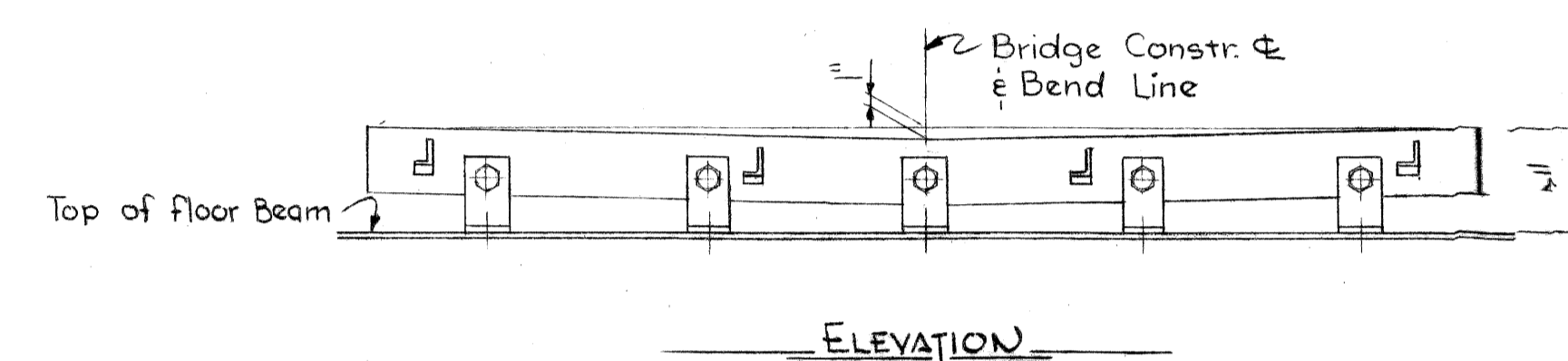
**ABUTMENT BEARING DETAILS**



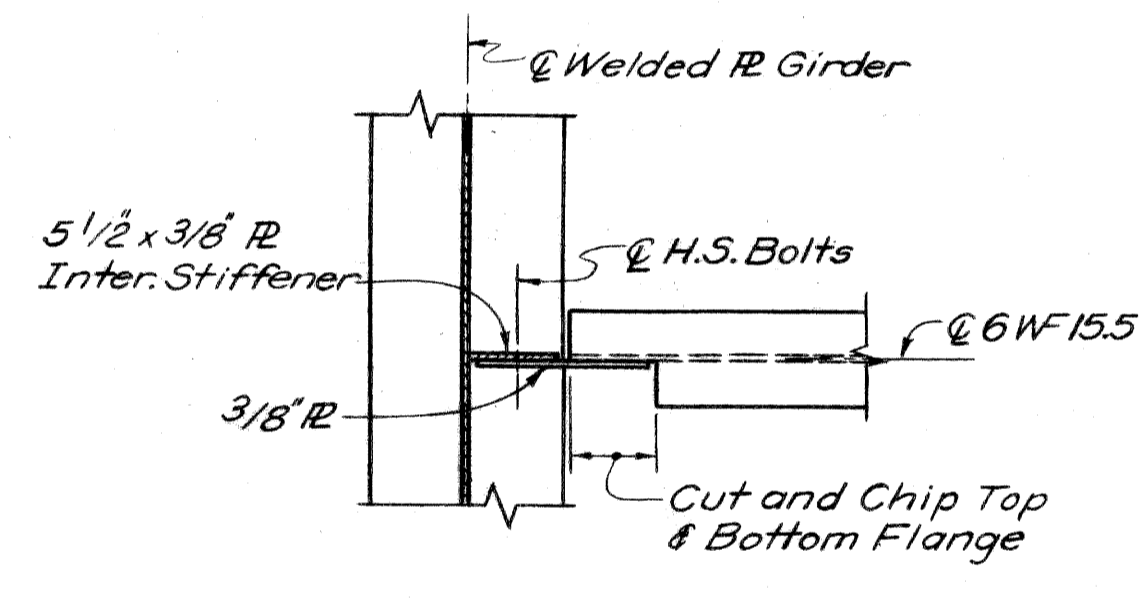
**PIER BEARING DETAILS**



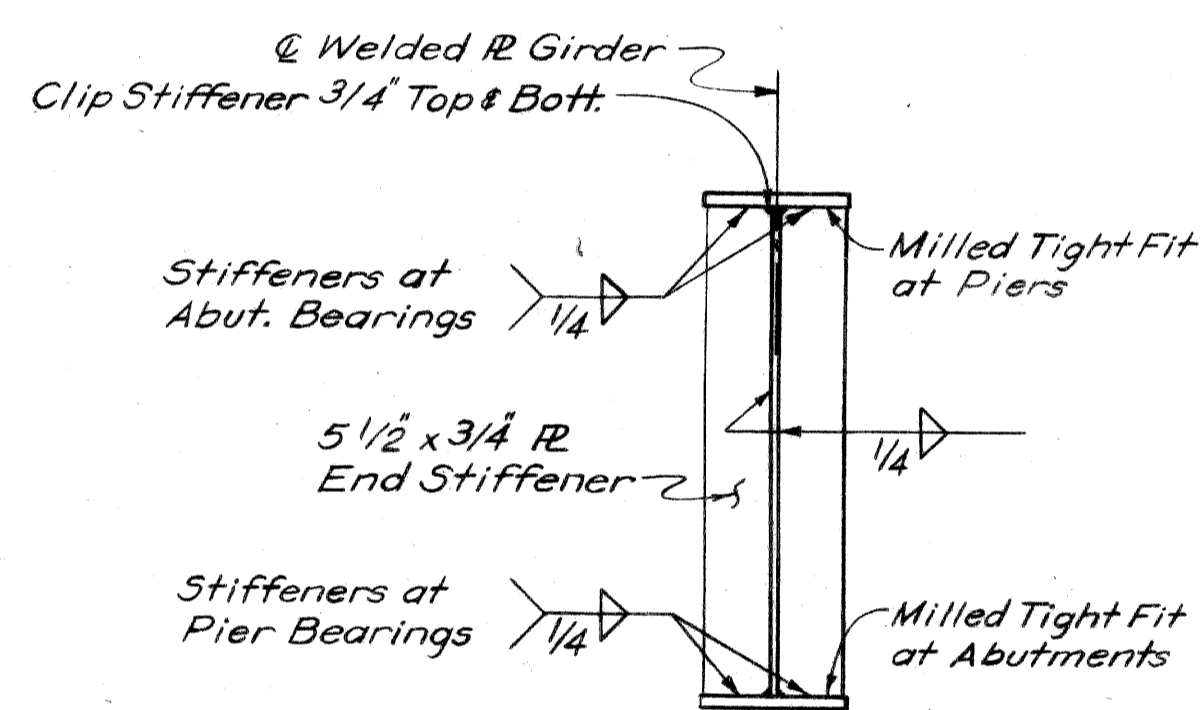
**METAL EXPANSION JOINT - PLAN**  
2 Required



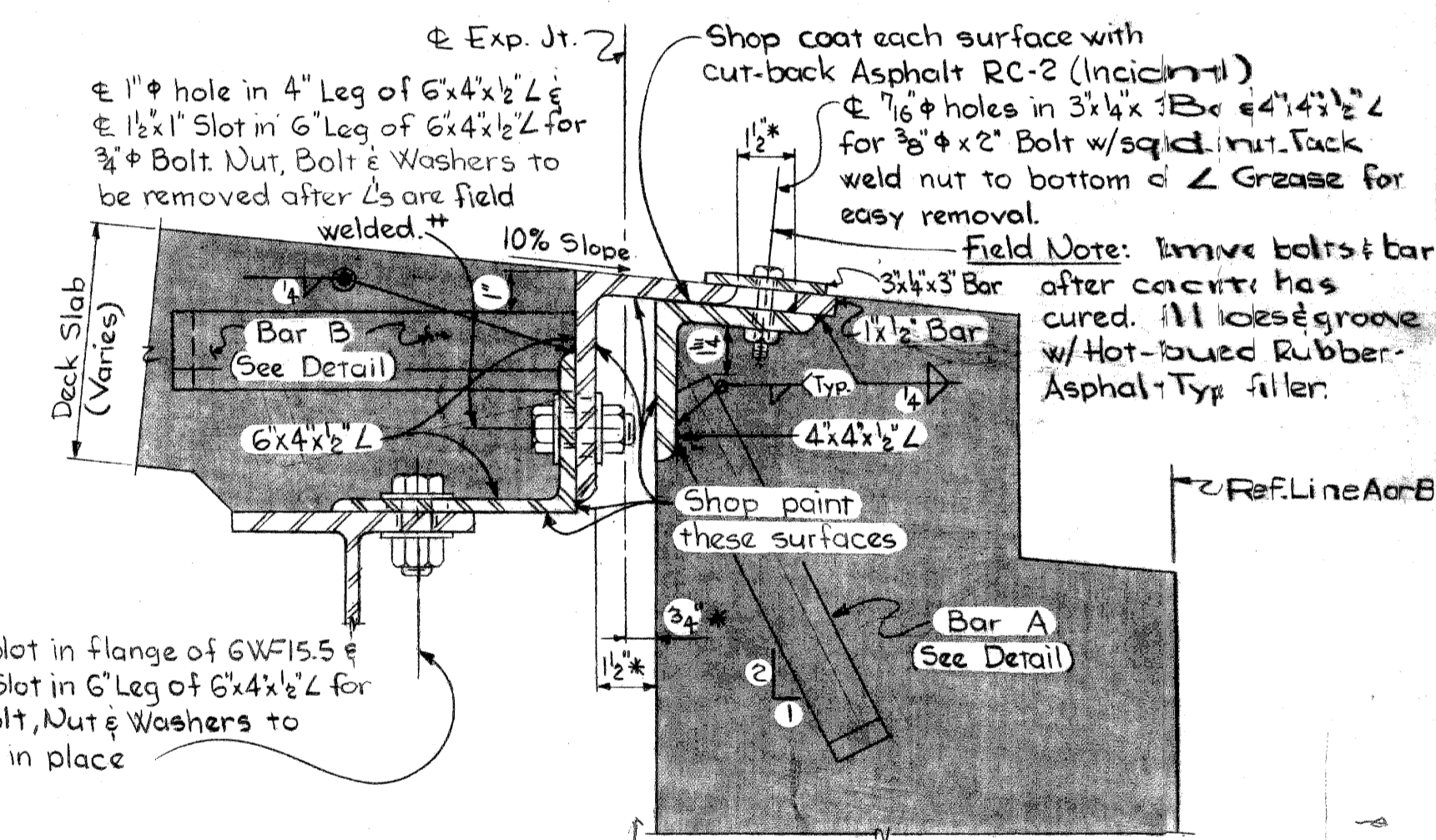
**TYPICAL HALF SECTION**



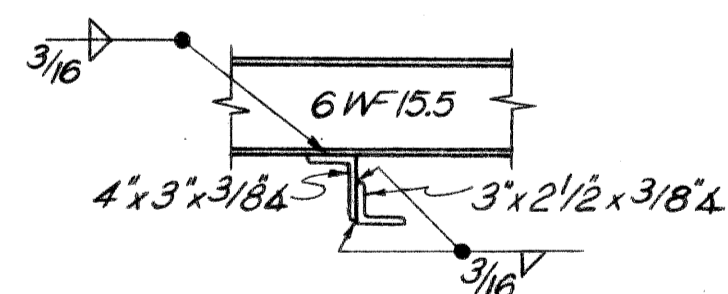
**SECTION F-F**



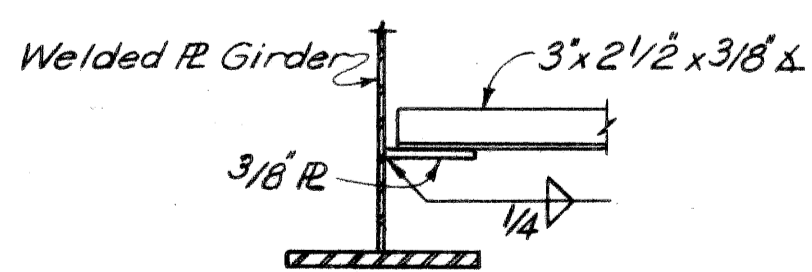
**TYP. END STIFFENER**



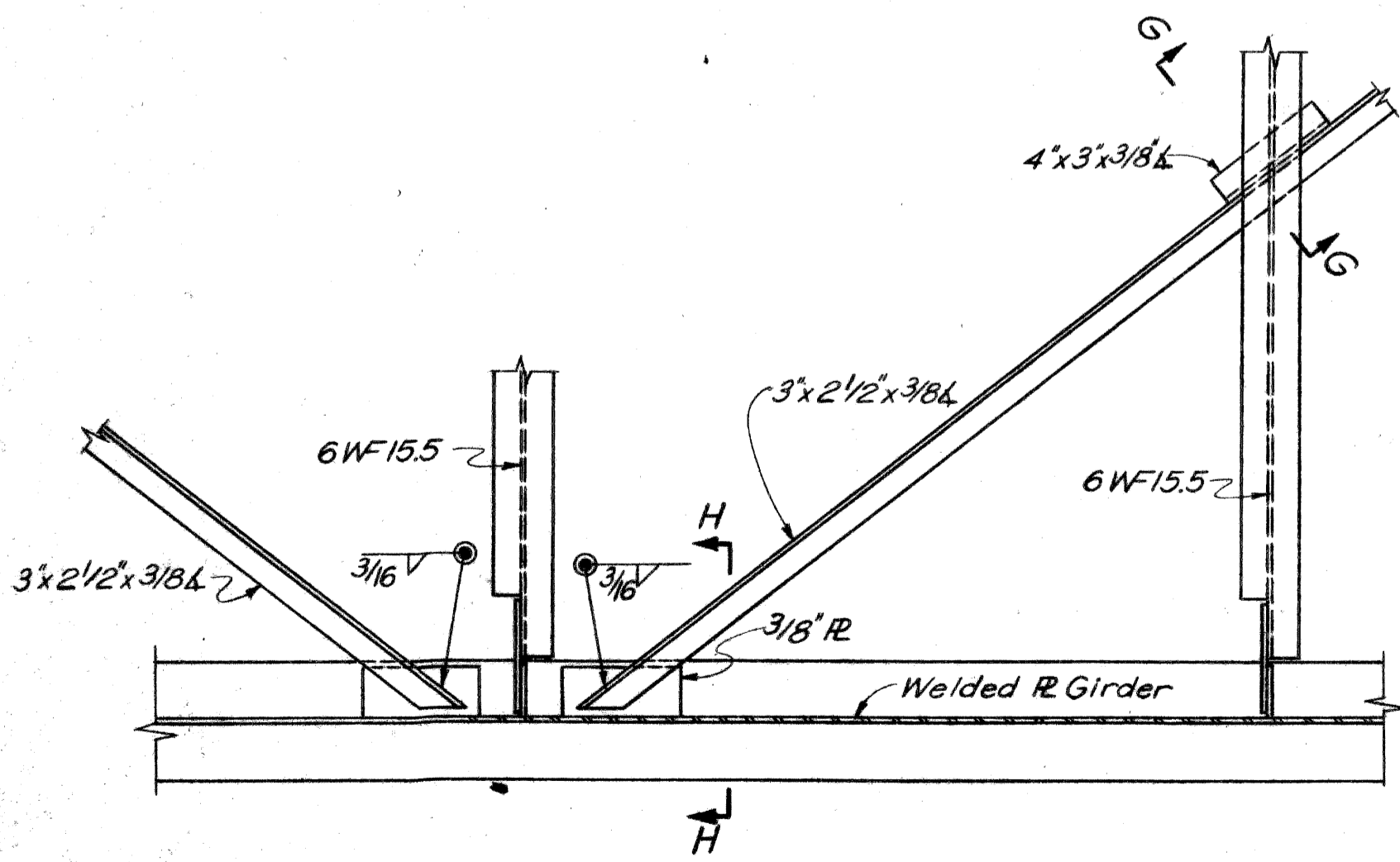
**SECTION Z-Z**



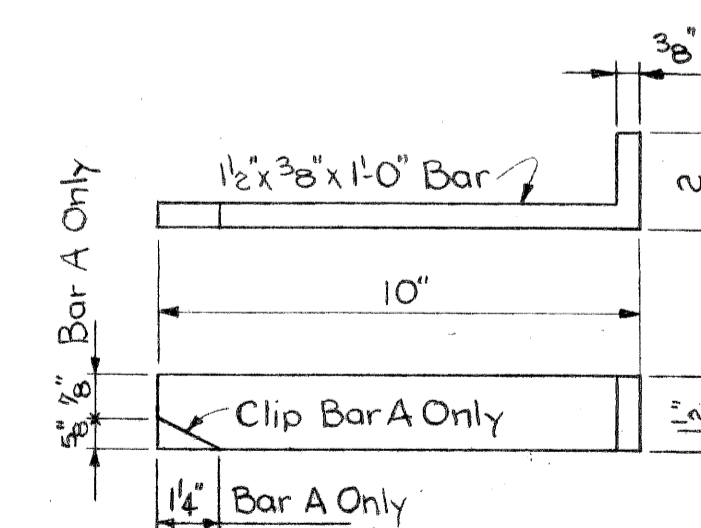
**SECTION G-G**



**SECTION H-H**



**LATERAL BRACING DETAILS**



**BAR A & B DETAILS**

\* Indicates Dimension @ 60°  
\* Indicates After removal of bolt, holes in 6x4x1/2's to be filled with weld metal.

Work this Sheet with Sheet #10

**MICHIGAN DEPARTMENT OF STATE HIGHWAYS**

**SELDEN AVE. PEDESTRIAN BRIDGE  
CROSSING THE JEFFRIES FREEWAY IN DETROIT**

**STRUCTURAL STEEL DETAILS**

PLANS PREPARED BY  
**CITY OF DETROIT**  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS  
APPROVED: *[Signature]*  
STRUCTURAL ENGINEER

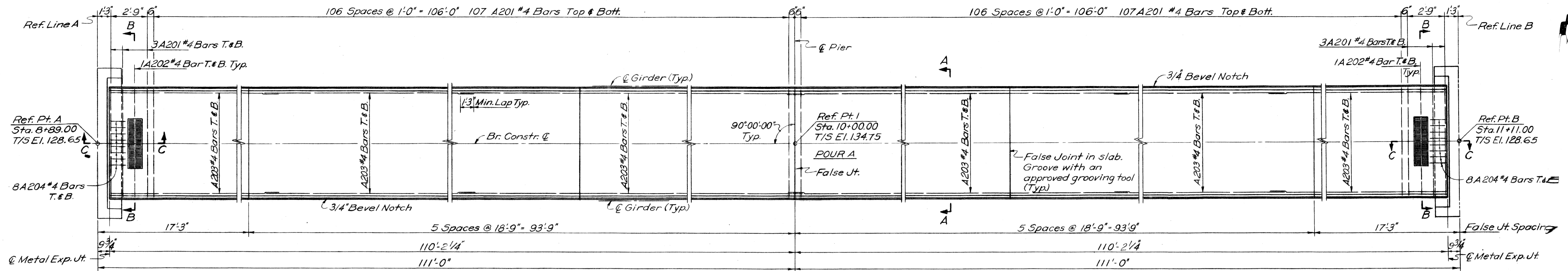
JOB No.  
PW 990(1)

NO.	DESCRIPTION	DATE	BY

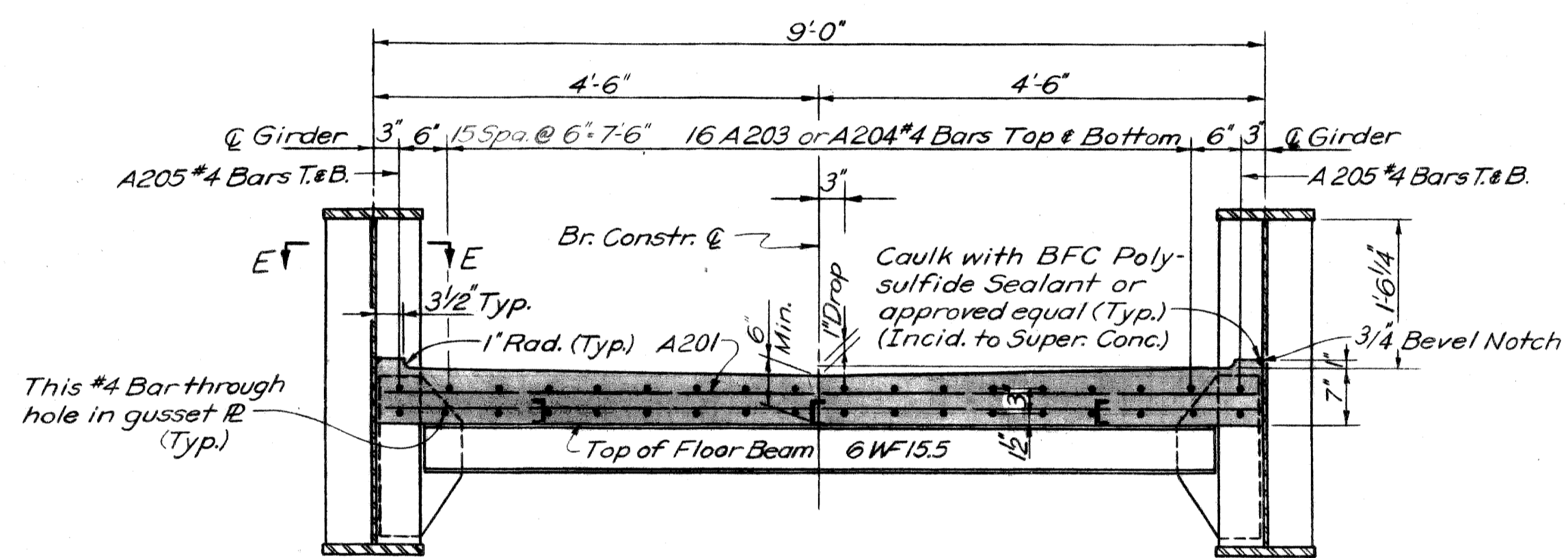
CITY OF DETROIT	DATE
SQUAD BOSS <i>[Signature]</i>	5-67
DRAWN BY <i>[Signature]</i>	6-66
TRACED BY <i>[Signature]</i>	
CHECKED BY <i>[Signature]</i>	8-66
SHEET 11 OF 14	

**POI of 82124A**

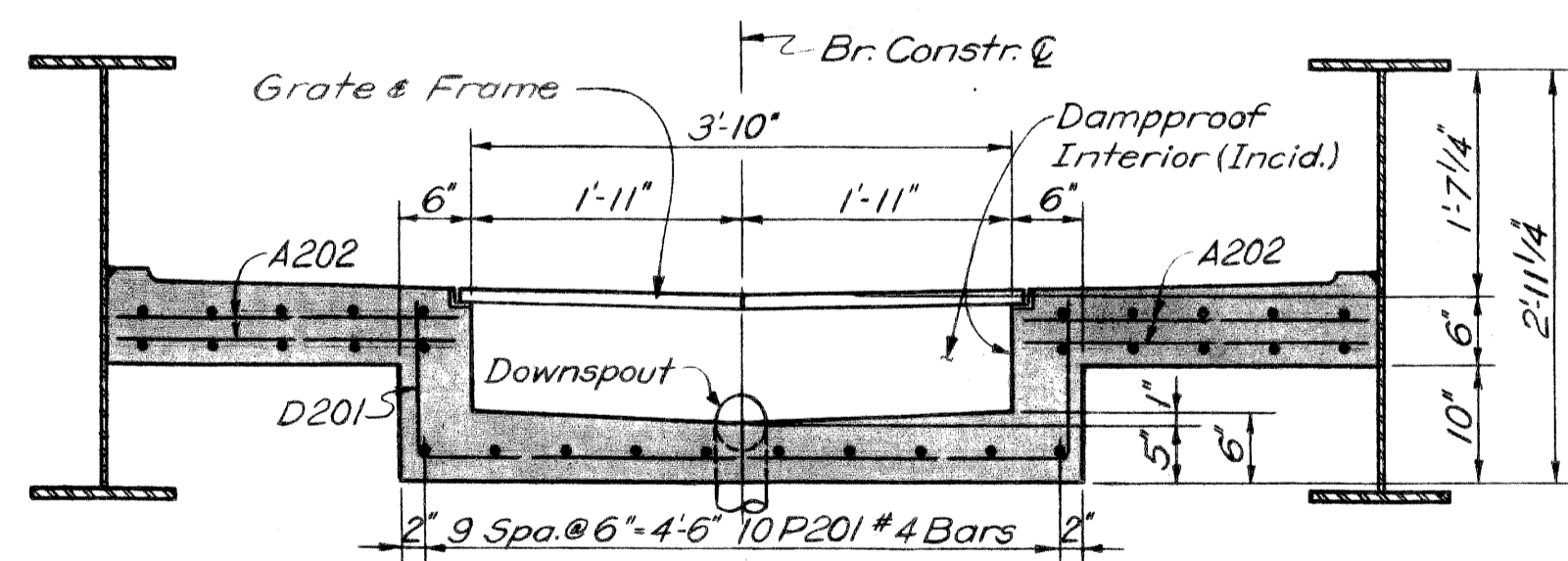




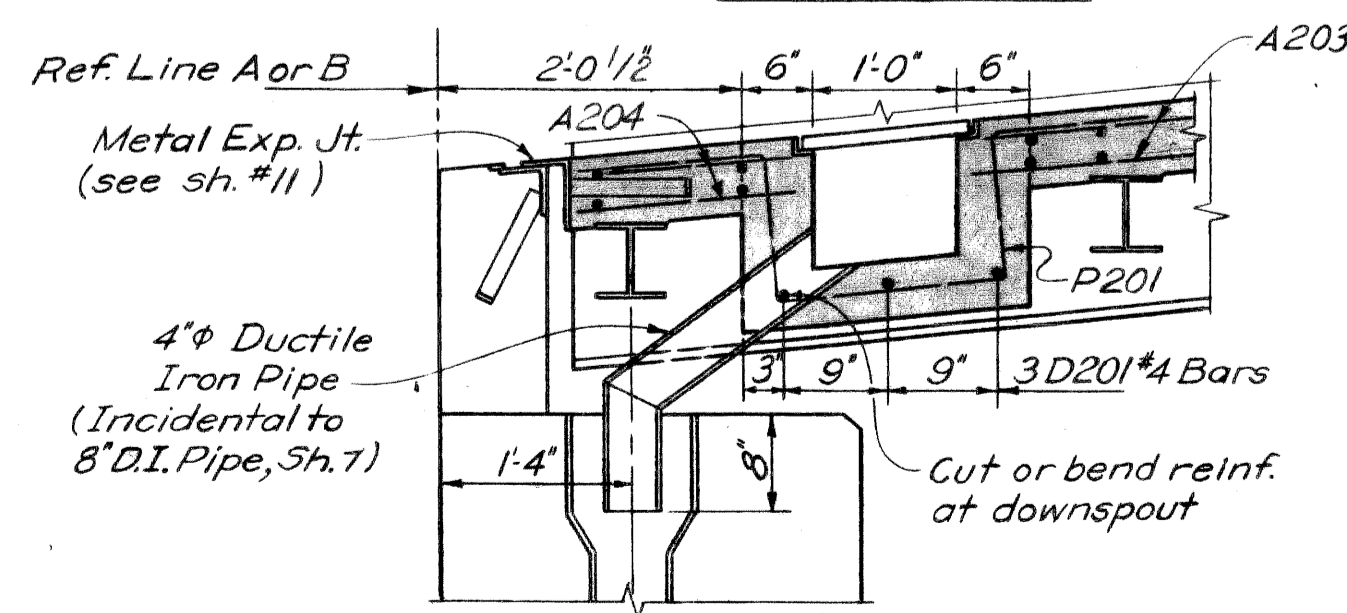
PLAN



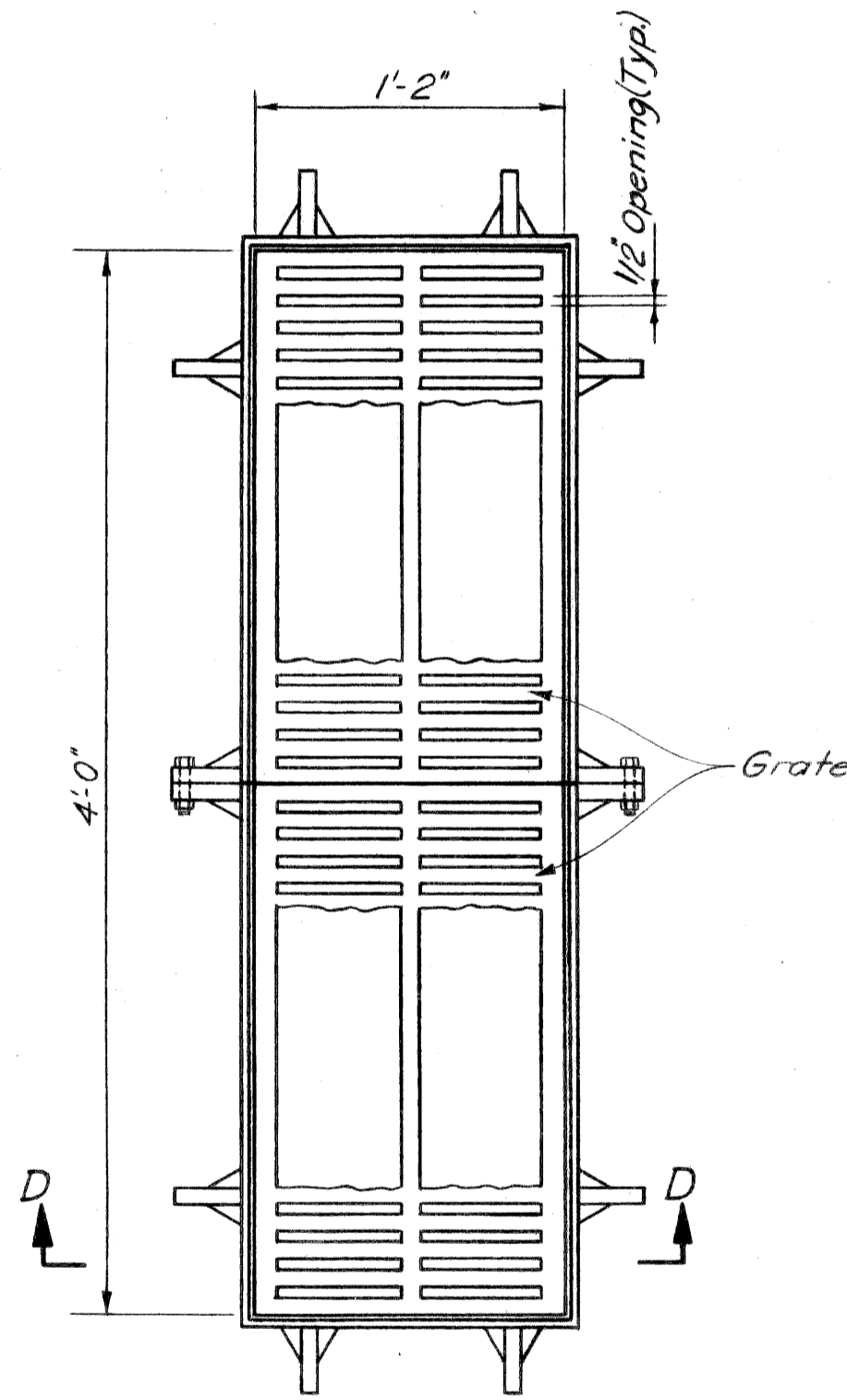
SECTION A-A



SECTION B-B

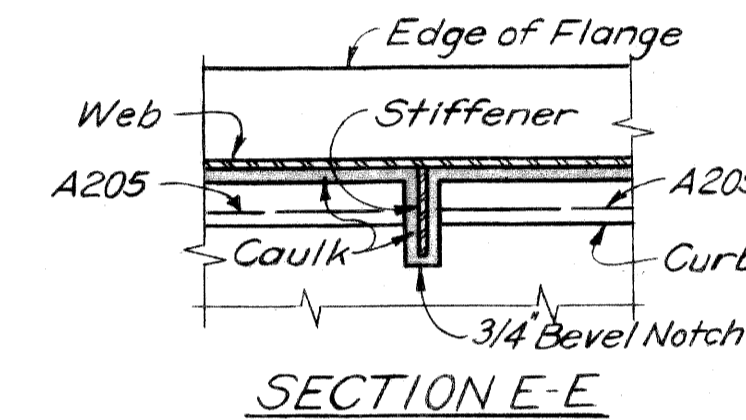


SECTION C-C

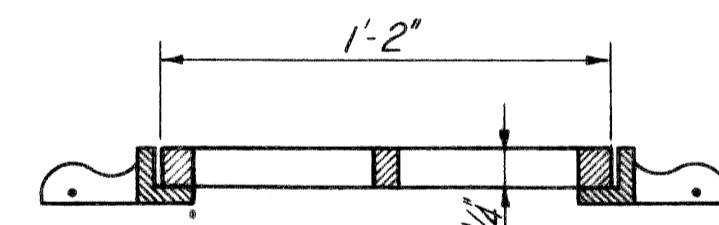


PLAN

DRAIN FRAME & GRATING DETAILS



SECTION E-E



SECTION D-D

4 Frames with anchors and 4 Gratings are required. Material is to be Gray Iron conforming to A.S.T.M. Spec. A45.56 or Ductile Iron conforming to A.S.T.M. Spec. A339.55. Weight of Grates and Frames is included in Structural Steel Weight. Grates shall be bolted to Frames.

CONCRETE QUANTITIES GRADE A(6AA)	
POUR	CU. YDS.
A	40.6
TOTAL	40.6

MISCELLANEOUS QUANTITIES		
Item	Unit	Amount
Water Reducing-Retarding Admixture	Gals.	6
Hot Poured Rubber-Asphalt-Type Filler	Lin. Ft.	16

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

SELDEN AVE. PEDESTRIAN BRIDGE  
CROSSING THE JEFFRIES FREEWAY IN DETROIT

SUPERSTRUCTURE DETAILS

PLANS PREPARED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: *[Signature]*  
STRUCTURAL ENGINEER

JOB No.  
PW 990(1)

REVISIONS			
NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT			
SQUAD BOSS	STATION	DATE	BY

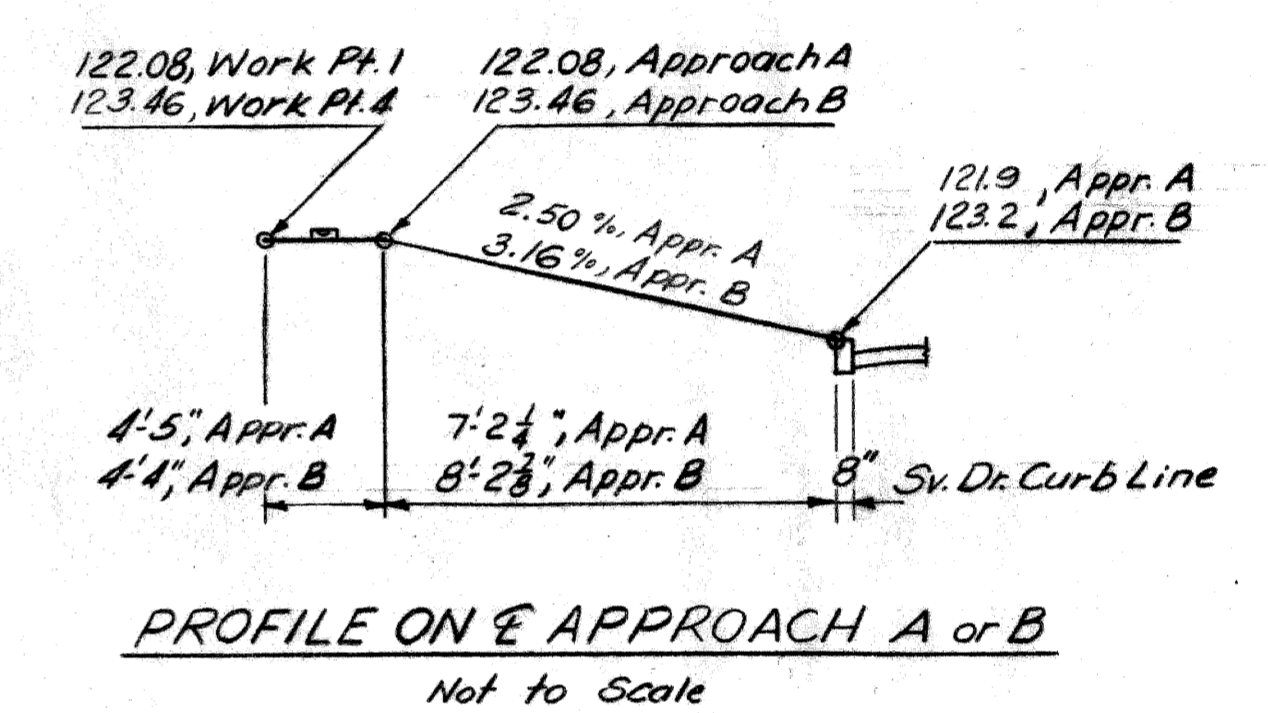
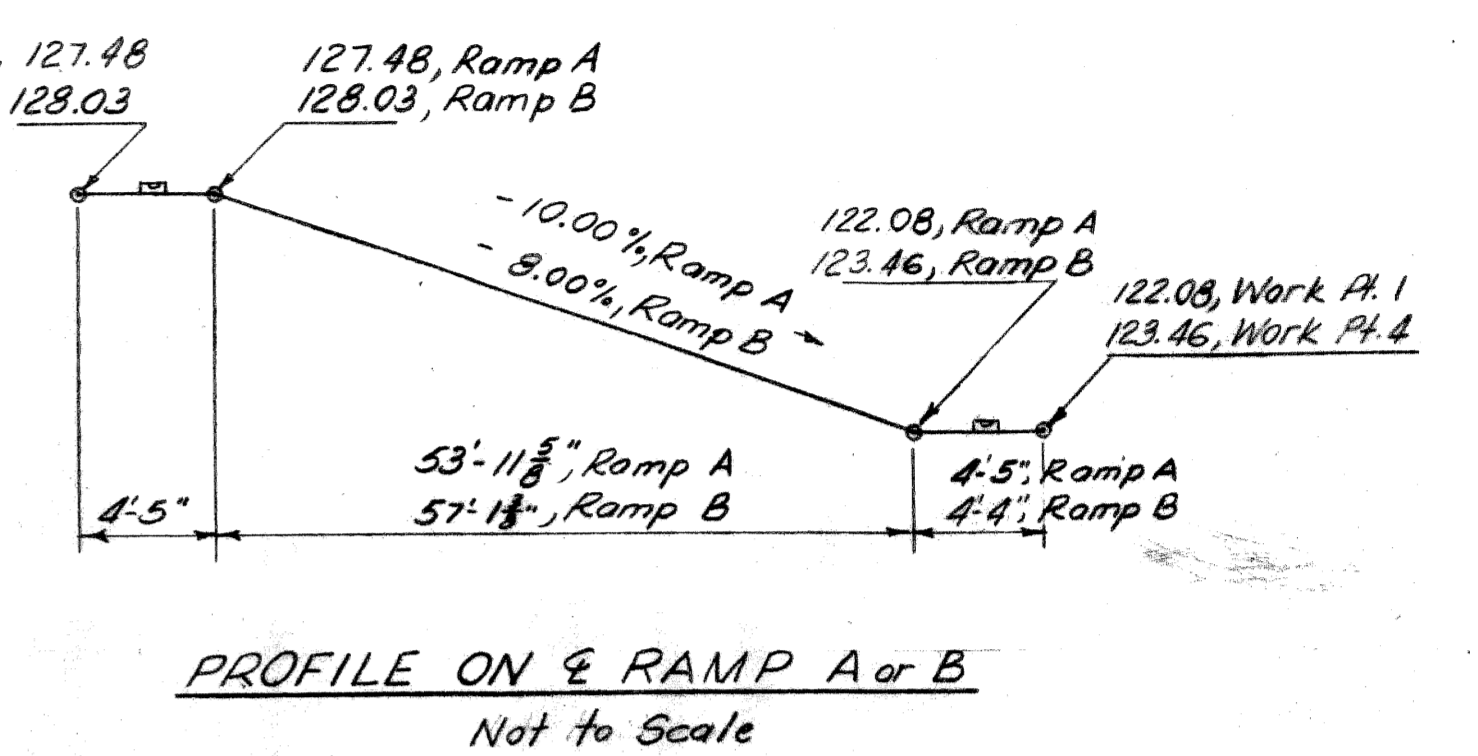
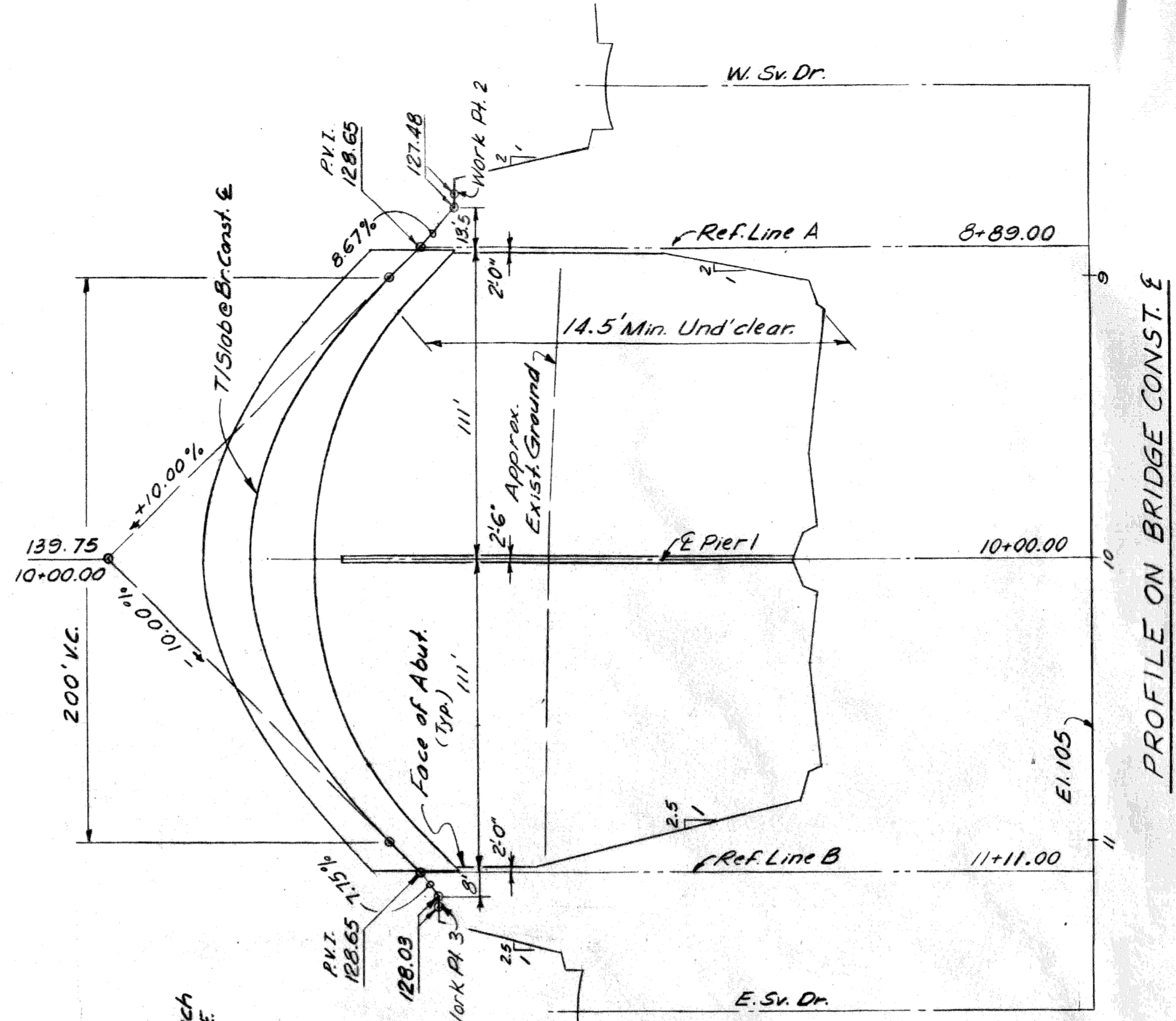
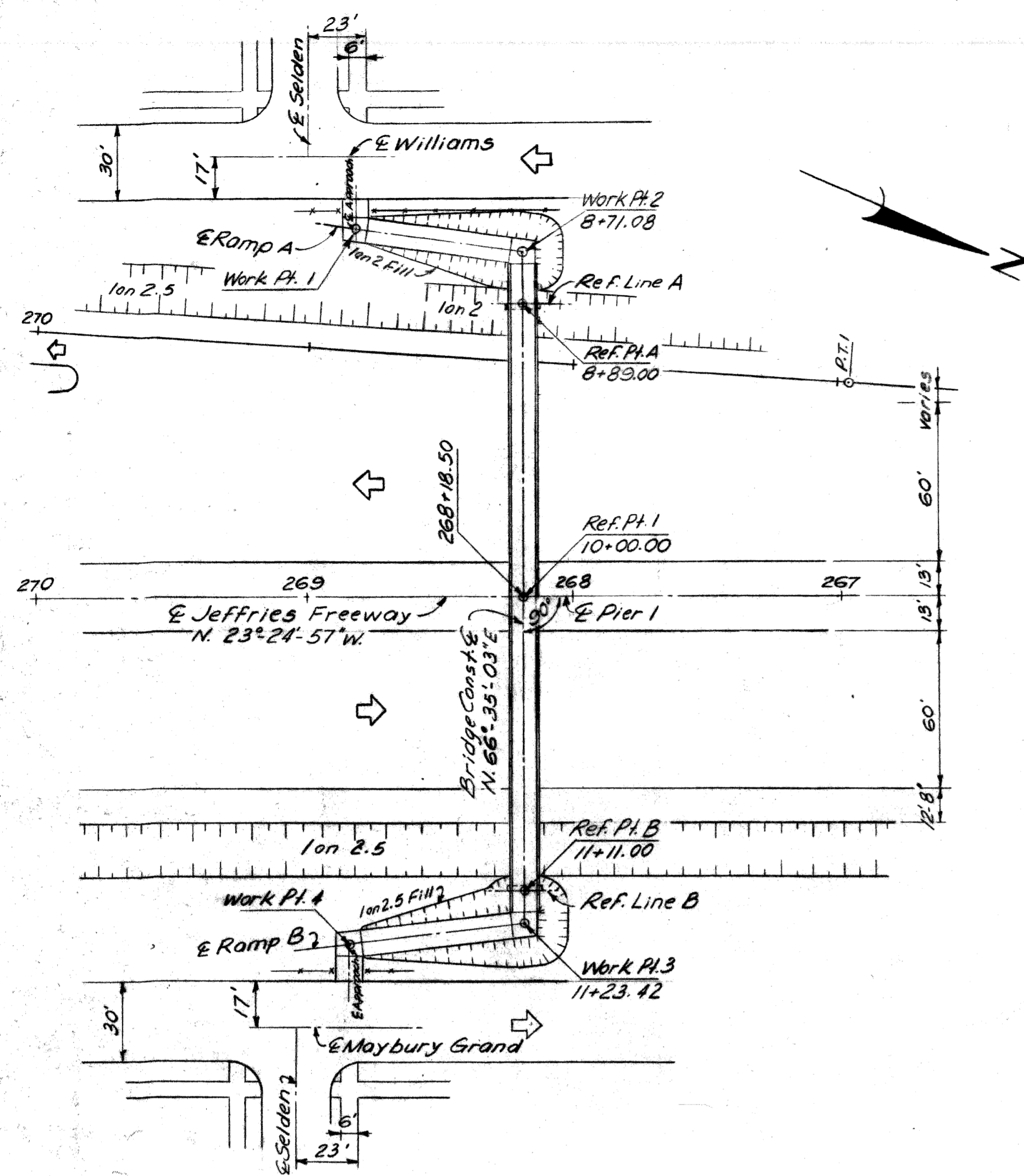
SHEET 12 OF 14

POI of 82124A





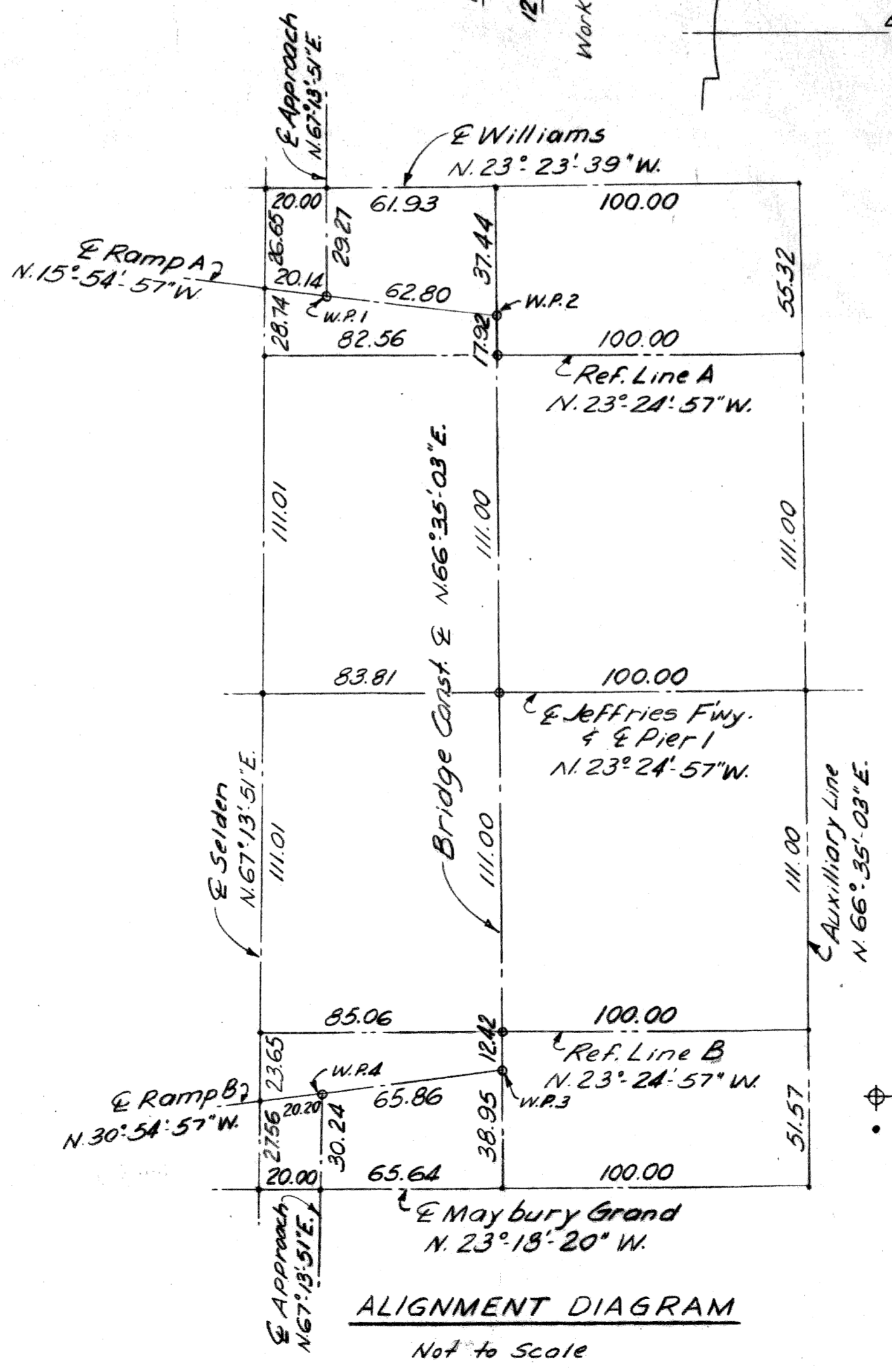
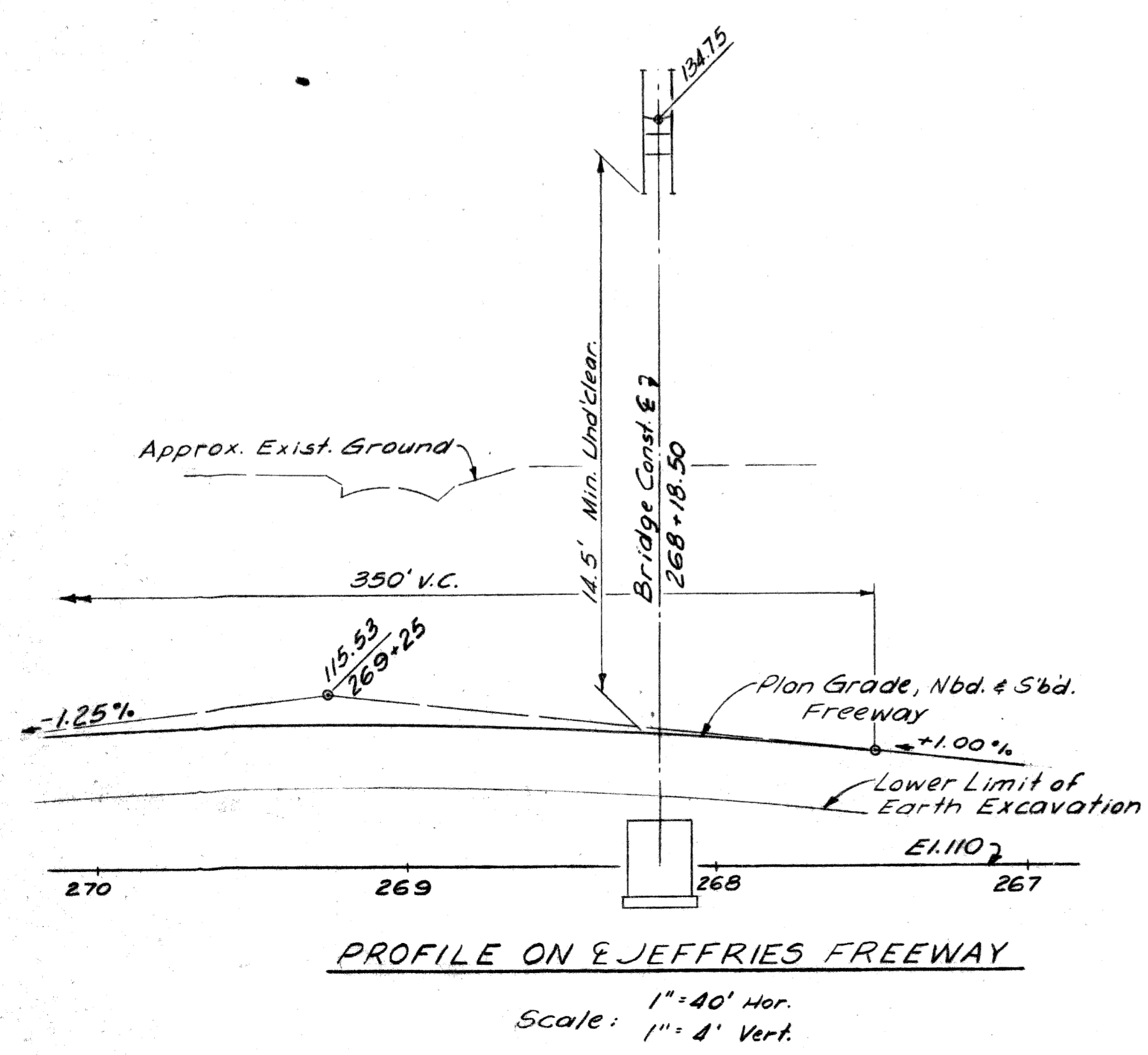




**Construction Bench Marks**

C.B.M. 10 El. 123.45 S.W. cor. Selden & Williams  
 C.B.M. 11 El. 125.61 N.E. cor. Selden & Maybury Grand  
 C.B.M. 13 El. 125.65 E. Side Maybury Grand, 200' S. of Poplar

C.B.M. 10, 11, 13 are DET on flange of hydrant  
 Elevations refer to City of Detroit Datum, 479.755 Ft. above sea level.



PLANS PREPARED BY  
**CITY OF DETROIT**  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERS OFFICE  
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: *[Signature]* JOB No. PW 990(1)  
 STRUCTURAL ENGINEER

NO.	DESCRIPTION	DATE	BY

**MICHIGAN DEPARTMENT OF STATE HIGHWAYS**

**SELDEN AVE. PEDESTRIAN BRIDGE  
 CROSSING THE JEFFRIES FREEWAY IN DETROIT**

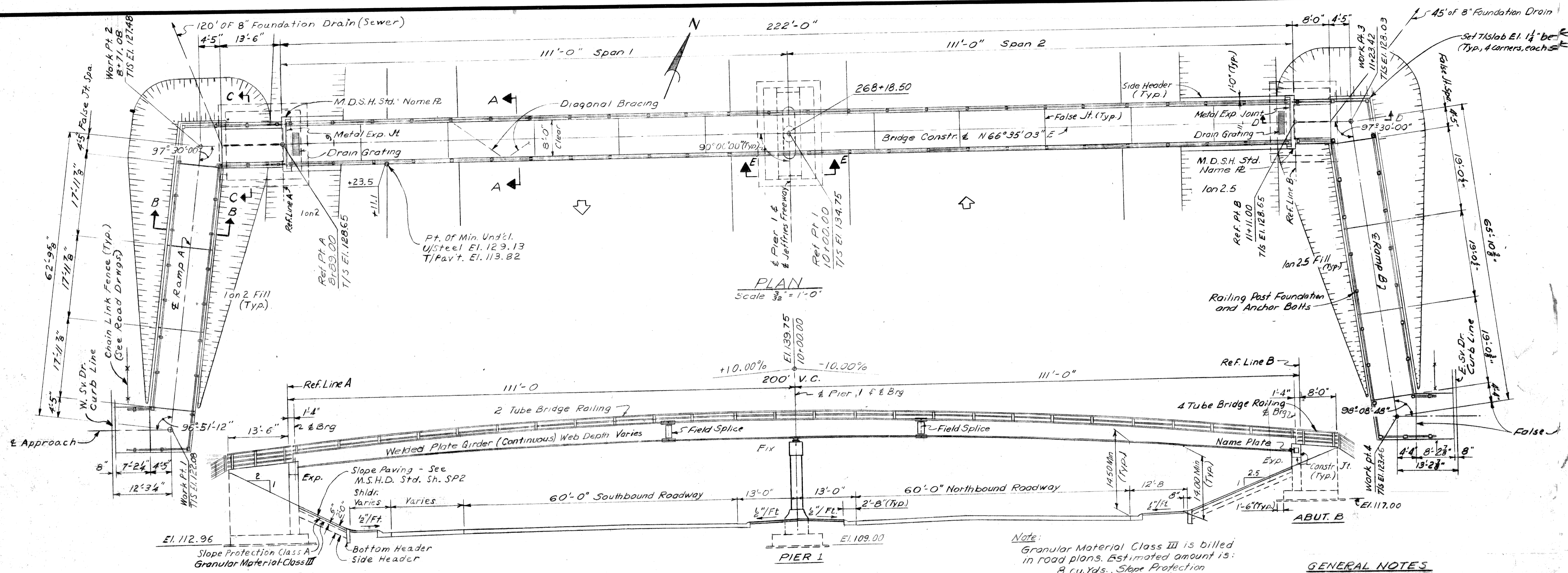
**GENERAL DRAWING**

APPROVED \_\_\_\_\_ DESIGN SUPERVISING ENGINEER  
 APPROVED \_\_\_\_\_ ENGINEER OF DESIGN - CONSULTANTS

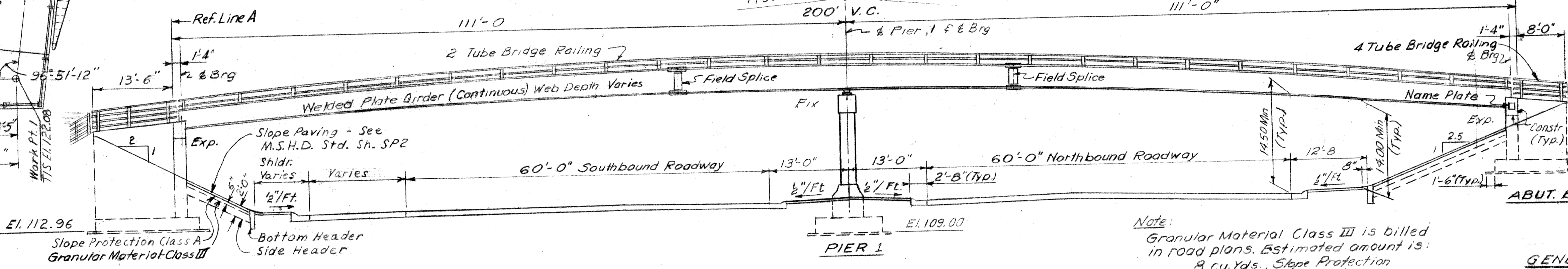
CITY OF DETROIT			
SQUAD BOSS	DRAWN BY	TRACED BY	CHECKED BY
542	E.H.S.	-	K.V.H.
566	-	-	2-67
SHEET 3 OF 14			

**POI of 82124 A**





PLAN  
Scale 3/32" = 1'-0"



ELEVATION  
Scale 3/32" = 1'-0"

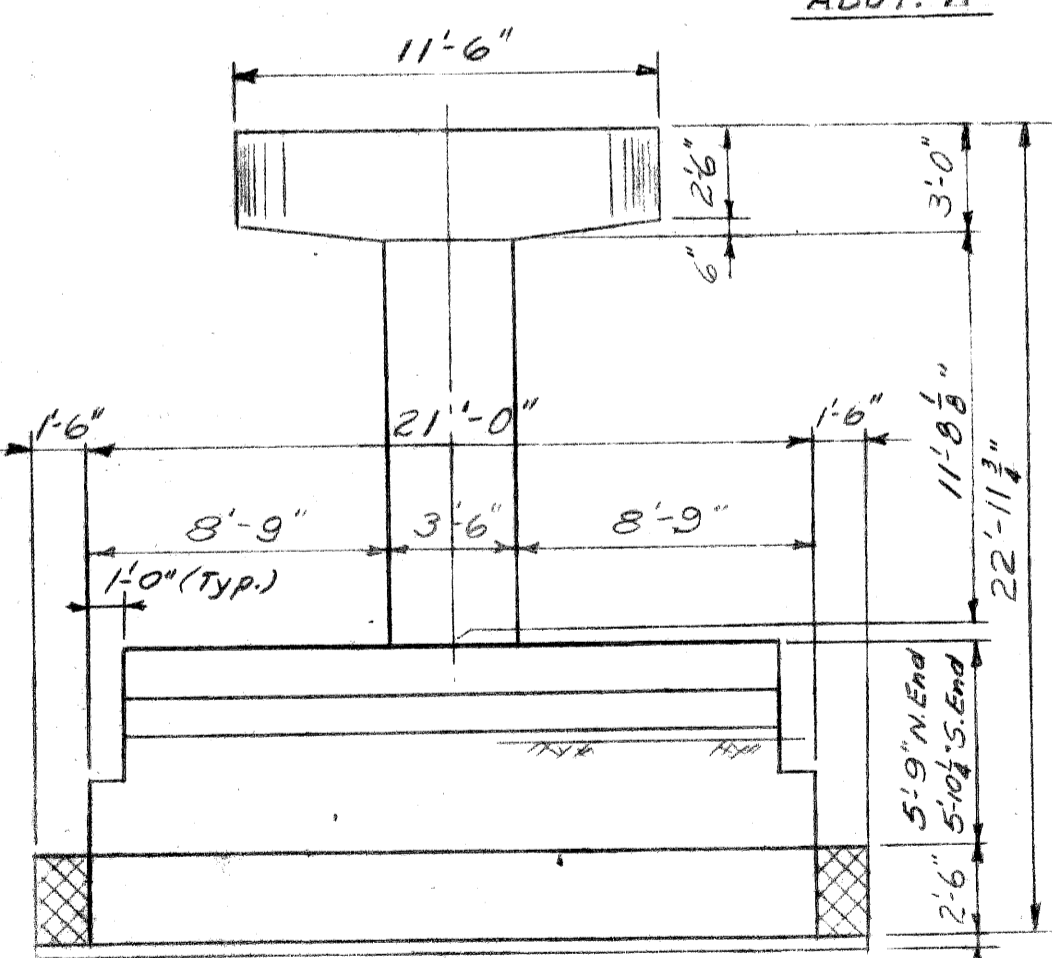
Note:  
Granular Material Class III is billed in road plans. Estimated amount is:  
8 Cu. Yds., Slope Protection  
80 Cu. Yds., Abutments  
195 Cu. Yds., Ramps

**GENERAL NOTES**

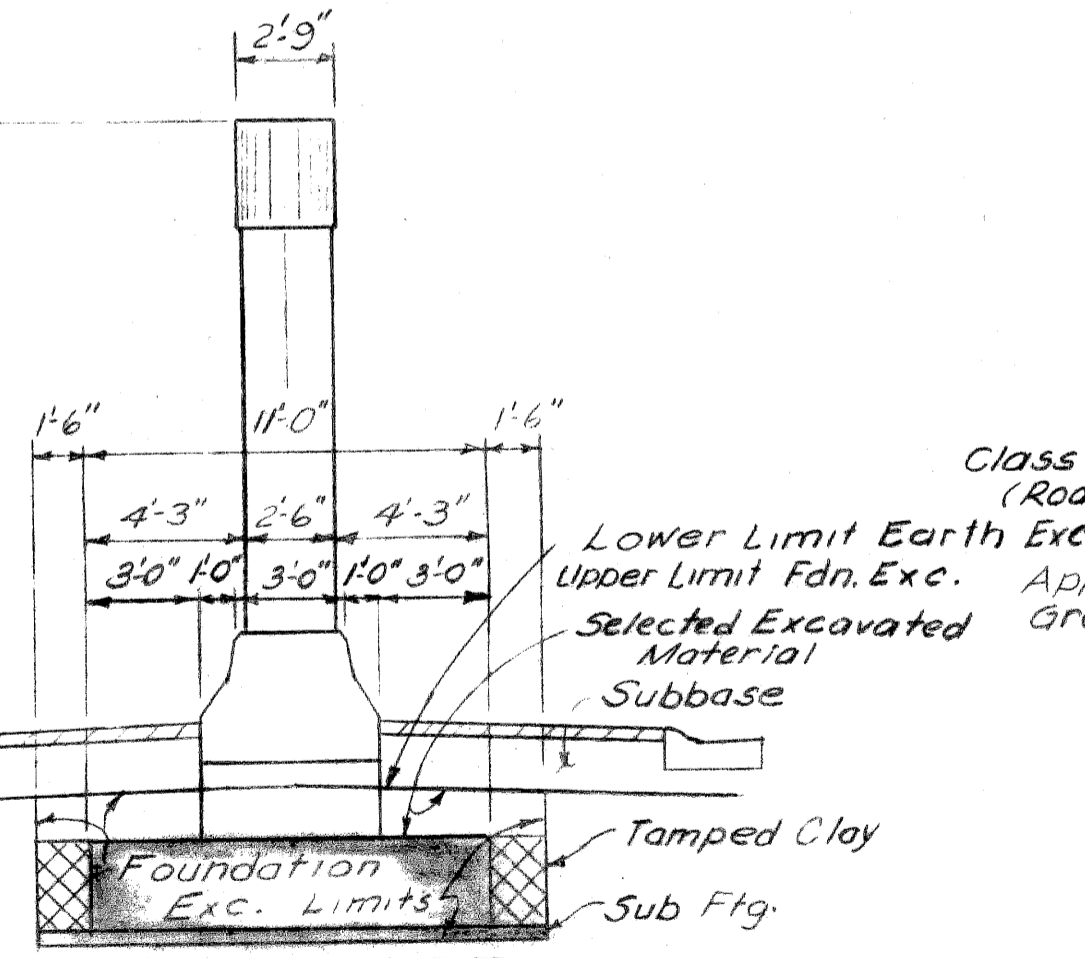
The design of this structure is based on M. S. H. D. Standard Specifications for the Design of Highway Bridges, 11th Edition.

**Live Load**  
Conc. Slab & Floor Beams --- 85 K  
Stringers --- 60 K  
Alternate Live Loading --- One 5 Ton Tr. Plus Impact  
The top of Slab is parallel to vertical curve & tangents

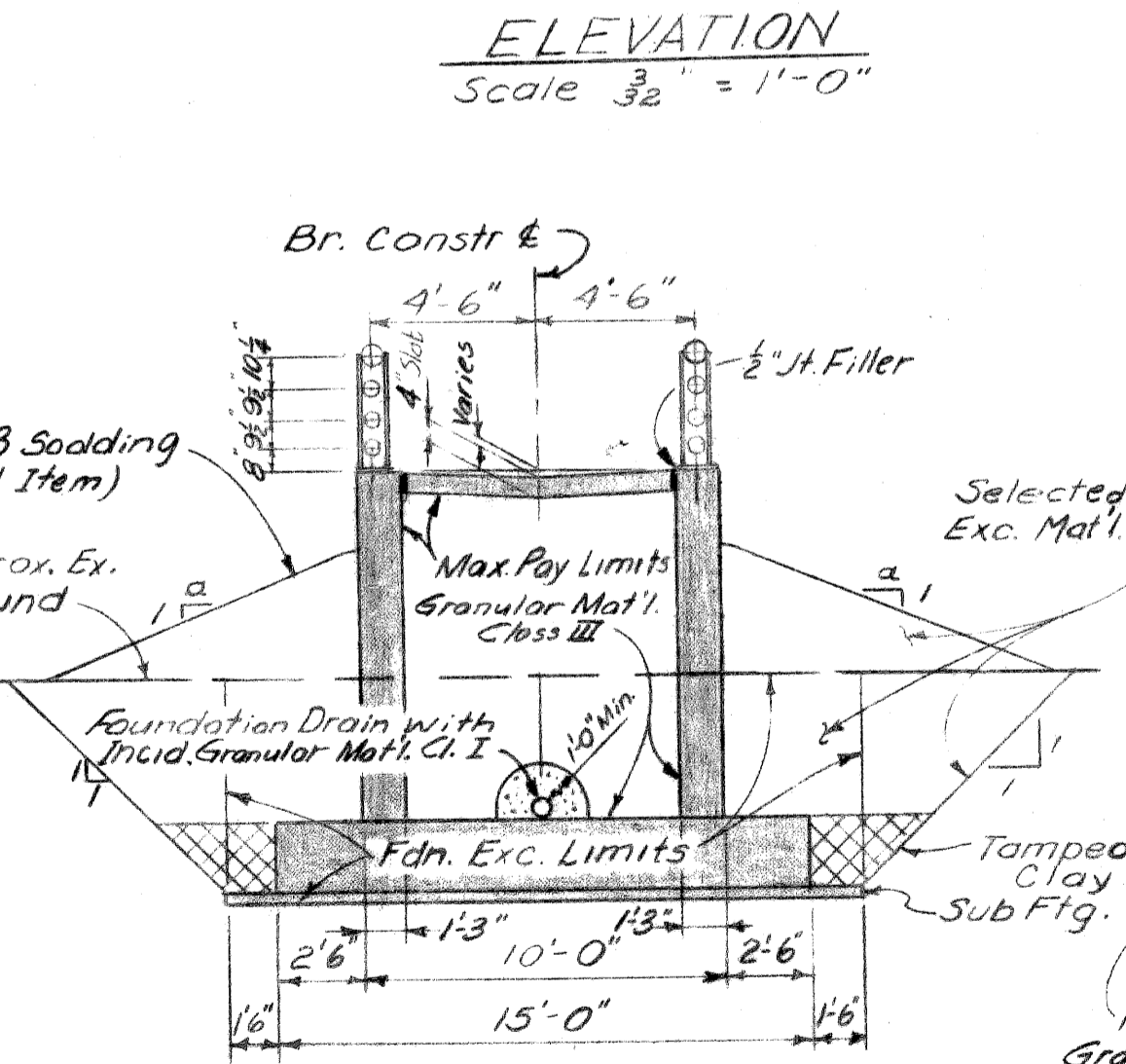
For details of Slope Protection, see S.P. 2. Tamped Clay and Selected Excavated Material are incidental to Unclassified Excavation.



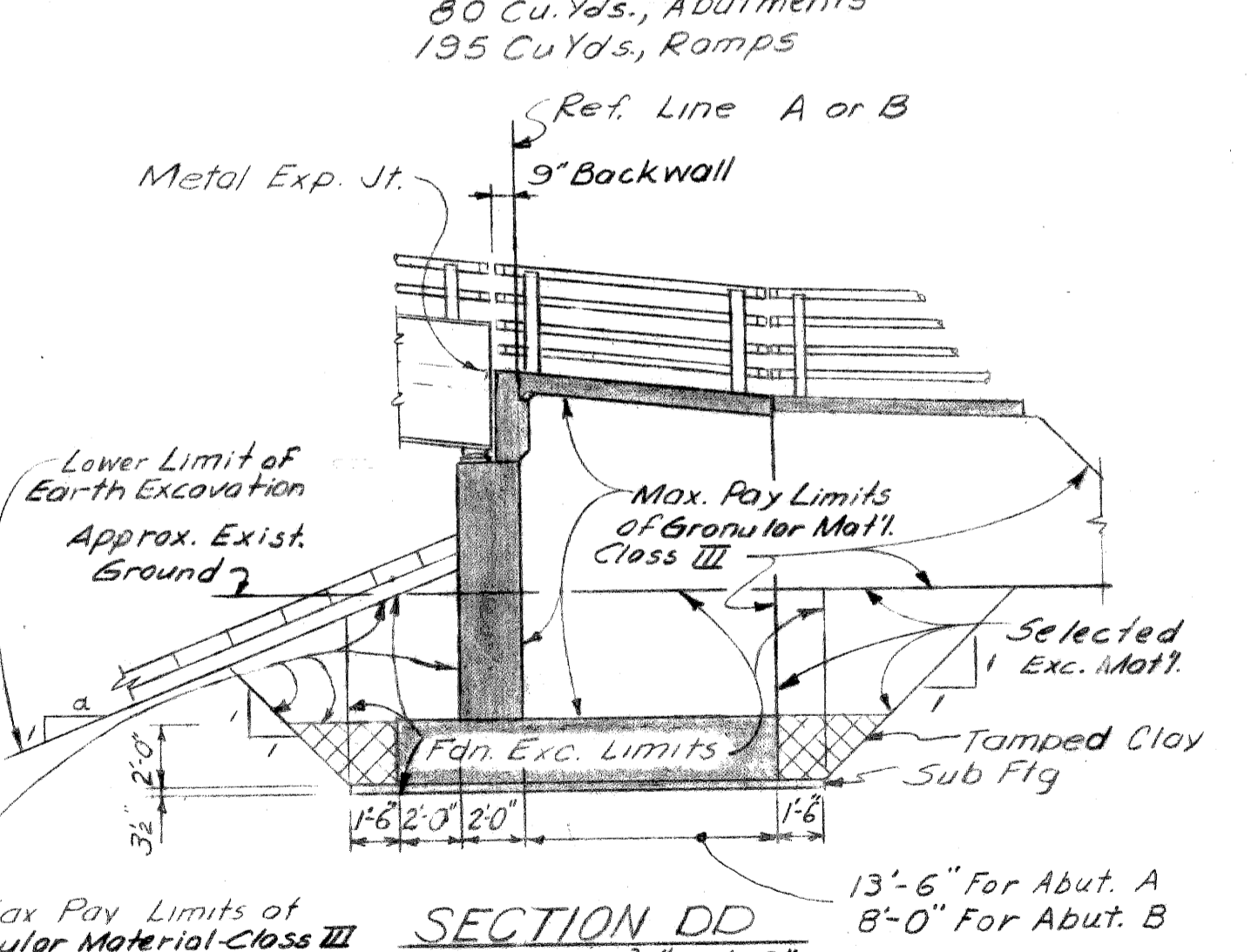
PIER ELEVATION  
Scale: 3/8" = 1'-0"



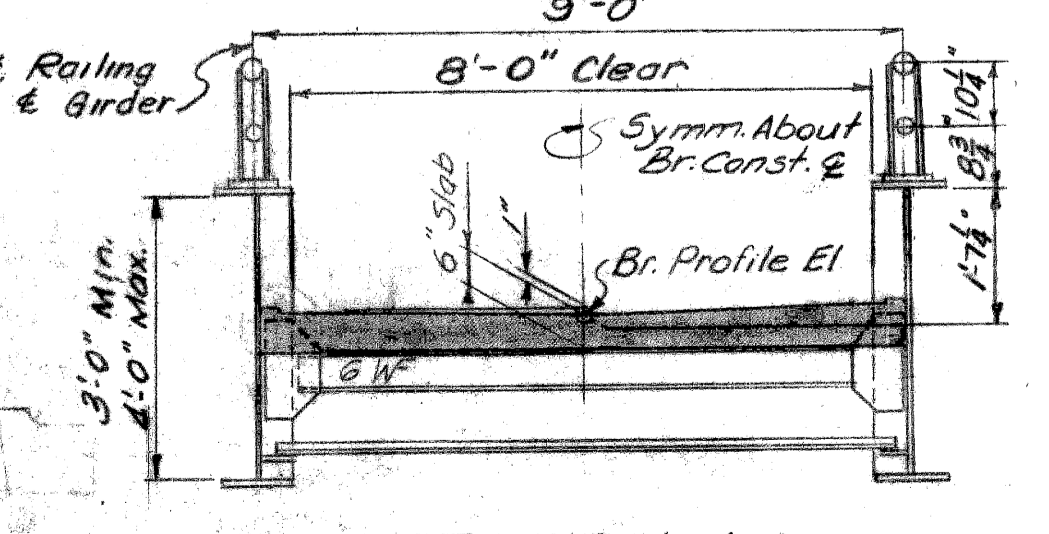
SECTION EE  
Scale: 3/8" = 1'-0"



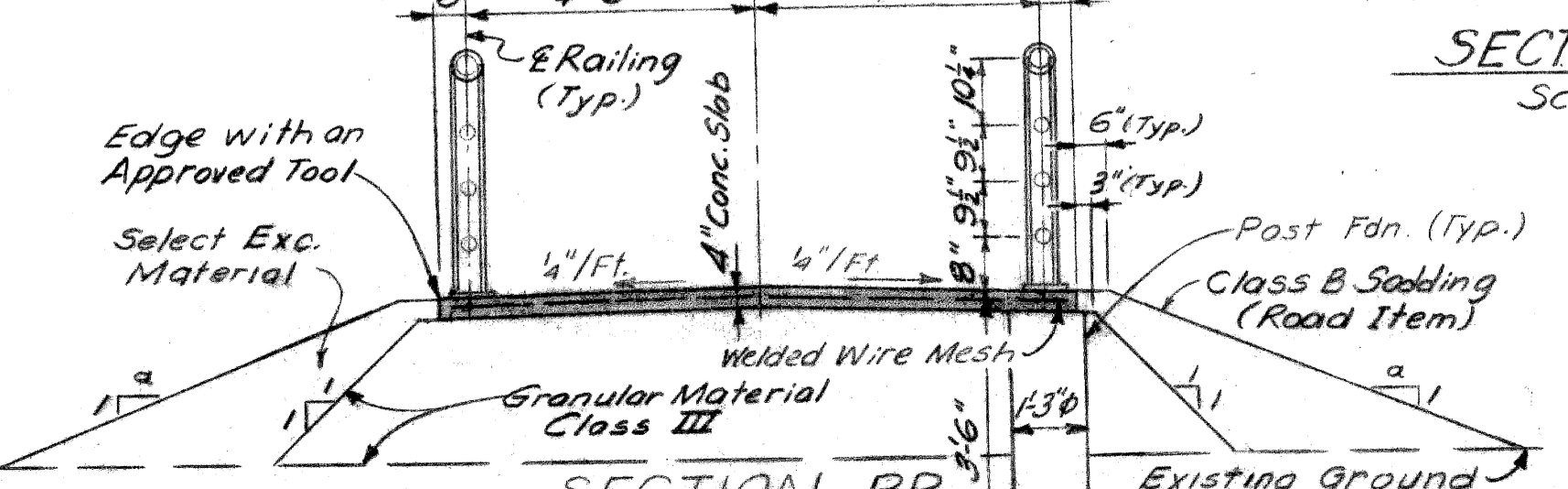
SECTION CC  
Scale 3/16" = 1'-0"



SECTION DD  
Scale 3/16" = 1'-0"



SECTION AA  
Scale: 3/8" = 1'-0"



SECTION BB  
Scale: 3/8" = 1'-0"

NOTE  
Dimn. a is 2.0 For Ramp or Abut. A  
2.5 For Ramp or Abut. B

MISCELLANEOUS QUANTITIES				
Item	Unit	Abut. A	Abut. B	Total
8" Foundation Drains	Lin. Ft.	120	75	165
Slope Protection Class A	Sq. Yds.	12	27	39
Slope Protection Headers	Lin. Ft.	34	60	94

PLANS PREPARED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: *[Signature]* STRUCTURAL ENGINEER  
JOB No. PW 990(1)

NO.	DESCRIPTION	DATE	BY

**MICHIGAN STATE HIGHWAY DEPARTMENT**

Selden Ave. Pedestrian Bridge  
Crossing the Jeffries Freeway in Detroit

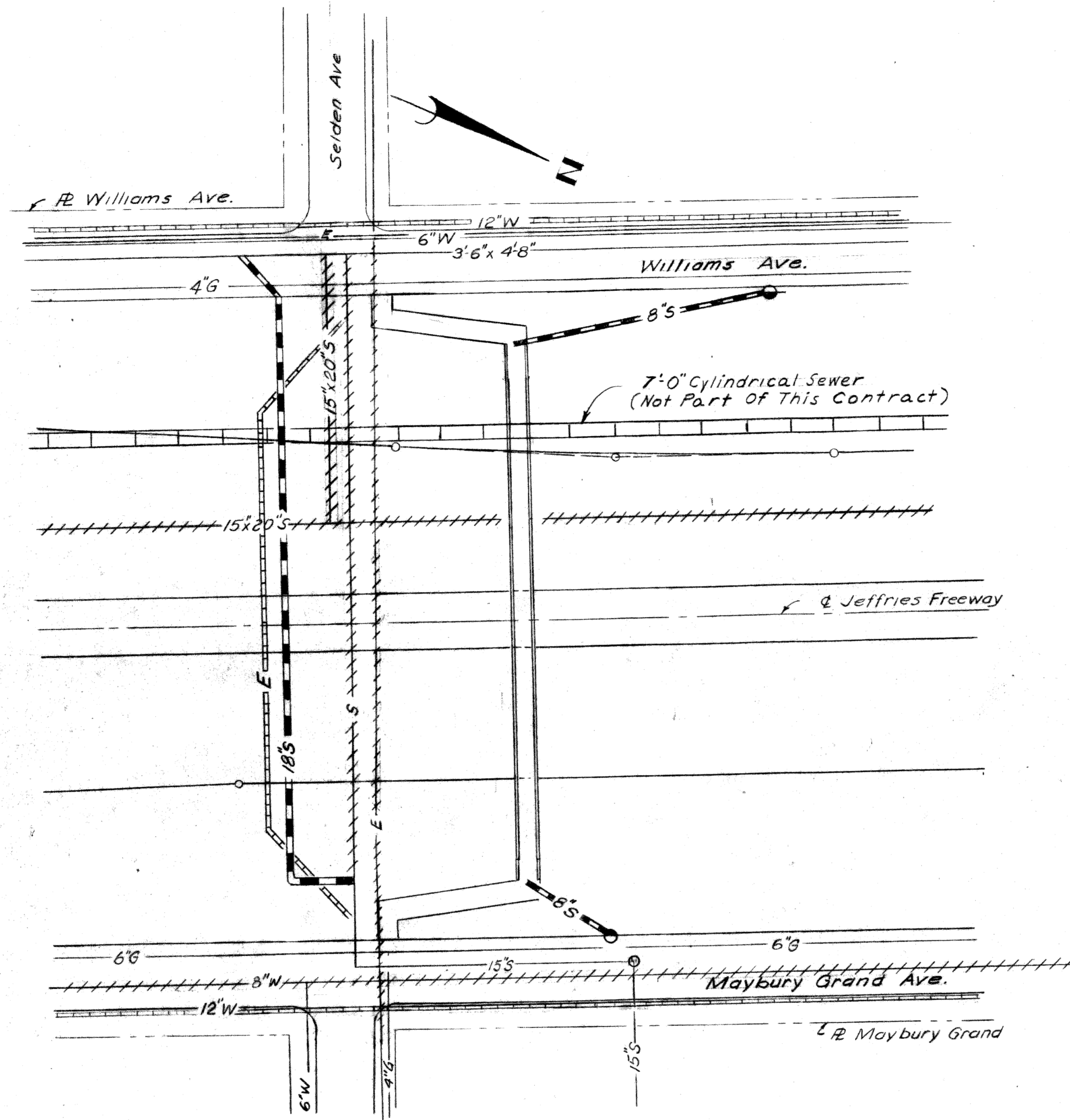
**GENERAL PLAN OF STRUCTURE**

APPROVED: \_\_\_\_\_ DESIGN SUPERVISING ENGINEER  
APPROVED: \_\_\_\_\_ ENGINEER OF DESIGN - CONSULTANTS

CITY OF DETROIT  
SQUAD BOSS: *[Signature]* 5-6-2  
DRAWN BY: *[Signature]* MAR 66  
CHECKED BY: *[Signature]* 3-6-66  
SHEET 4 OF 10

POI # 82124 A





**SITUATION PLAN**  
Scale: 1" 40"

**UTILITY**

- Detroit Edison Co.
- Mich. Consolidated Gas Company
- City of Detroit Sewers
- Detroit Water Department

**LEGEND**

UTILITY	Existing	Delete or Abandon	New Work by Others	New Work by Contractor
Detroit Edison Co.	—E—	+++E+++	—E—	
Mich. Consolidated Gas Company	—G—	+++G+++		
City of Detroit Sewers	—S—	+++S+++		—S—
Detroit Water Department	—W—			

PLANS PREPARED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: *[Signature]*  
STRUCTURAL ENGINEER

JOB No.  
PW 990(1)

**MICHIGAN STATE HIGHWAY DEPARTMENT**

SELDEN AVE. PEDESTRIAN BRIDGE  
CROSSING THE JEFFRIES FREEWAY IN DETROIT

**EXISTING UTILITIES AND PROPOSED ALTERATIONS**

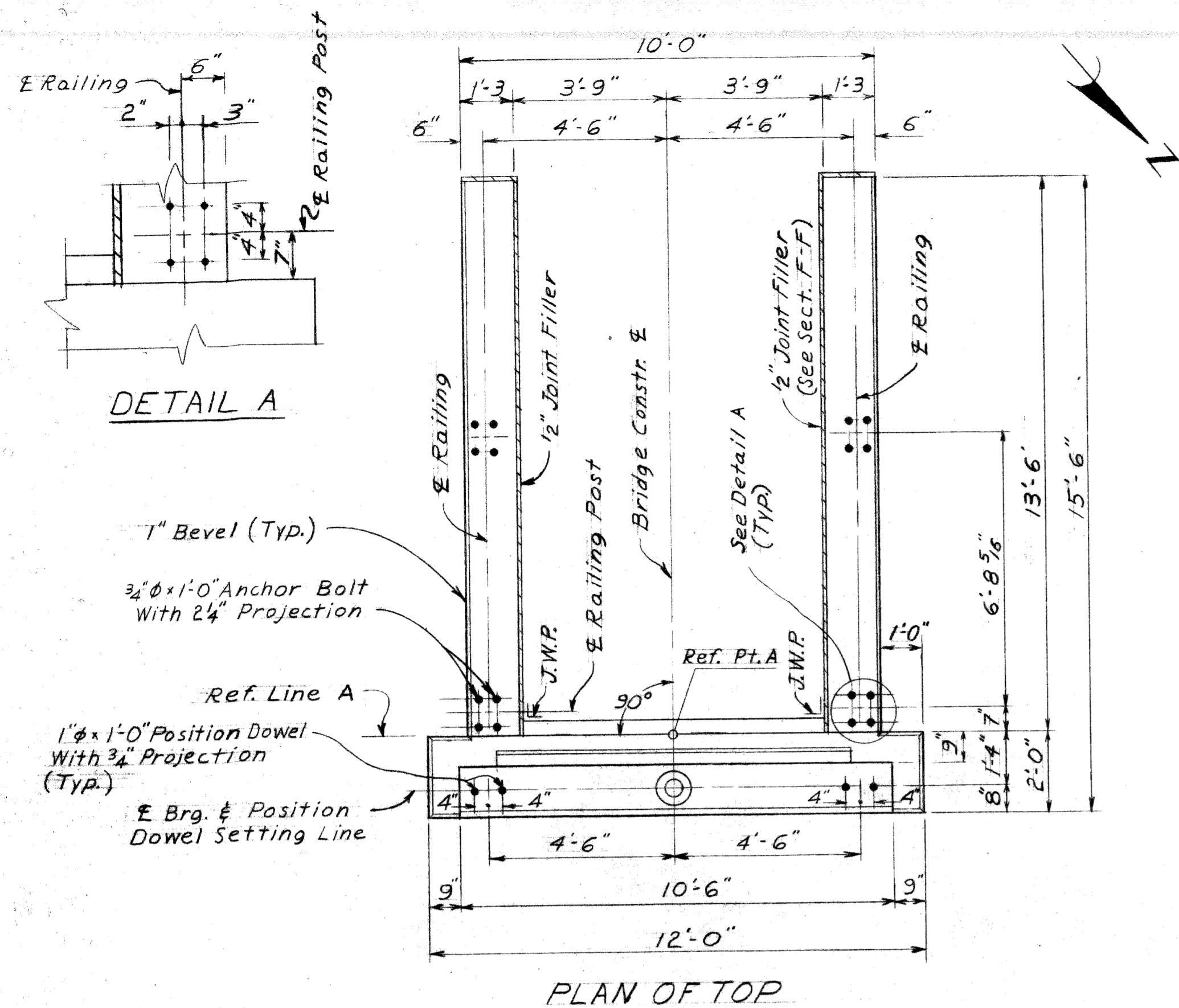
REVISIONS

NO.	DESCRIPTION	DATE	BY

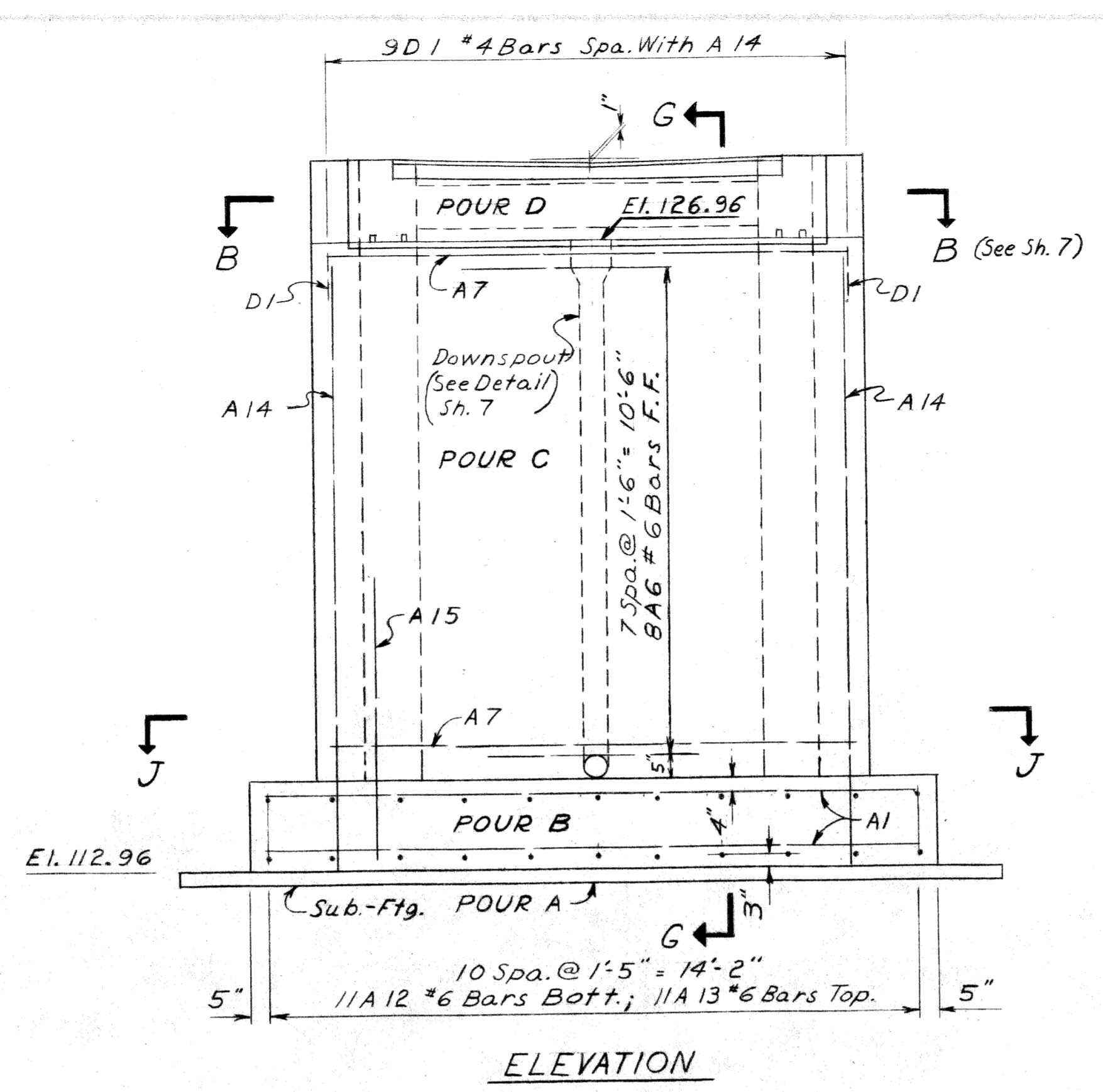
CITY OF DETROIT  
SQUAD BOSS: STORM 5-67  
DRAWN BY: WAL Mar 66  
CHECKED BY: STORM 5-66  
REV: 3 of 14

POI of 82124 A

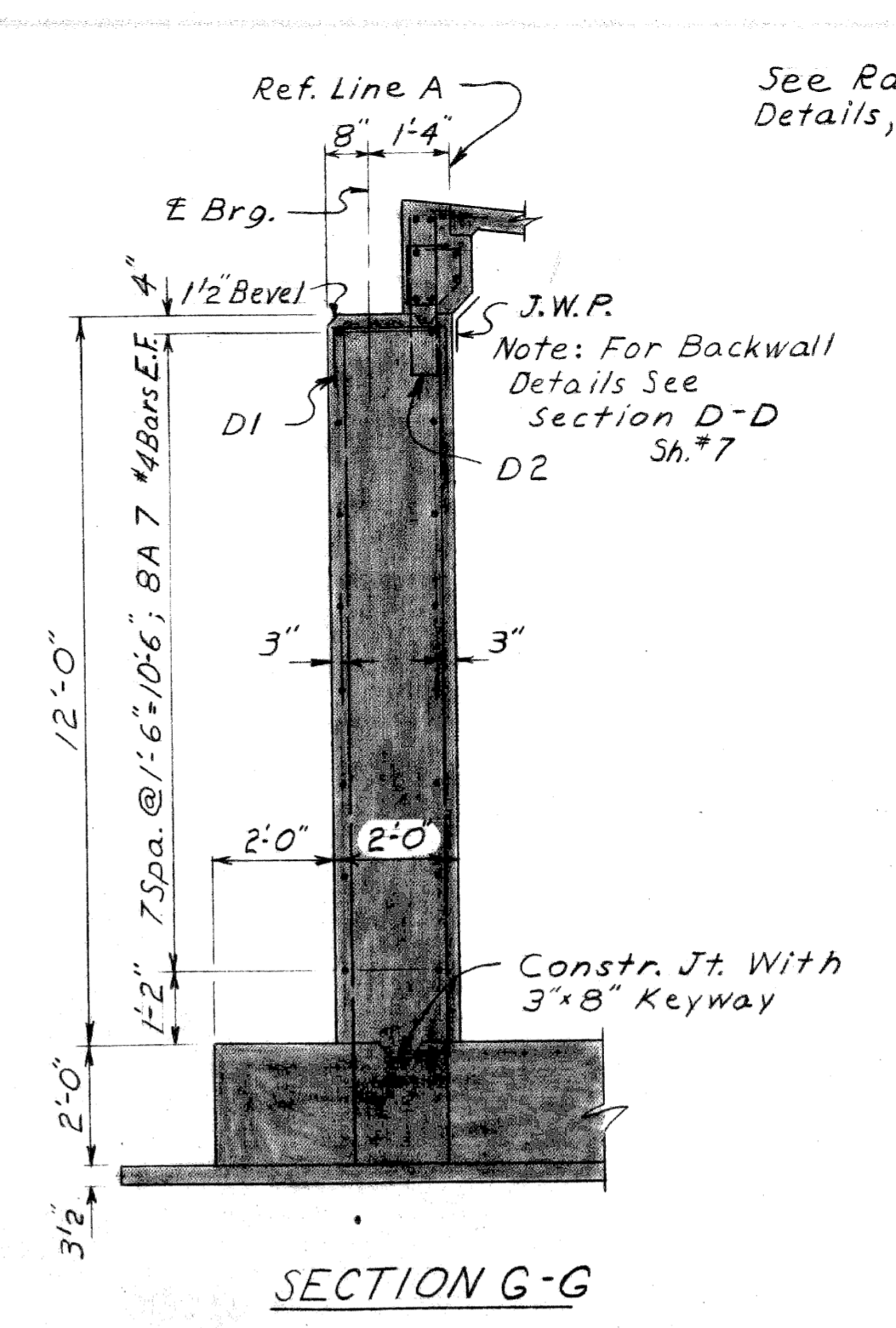




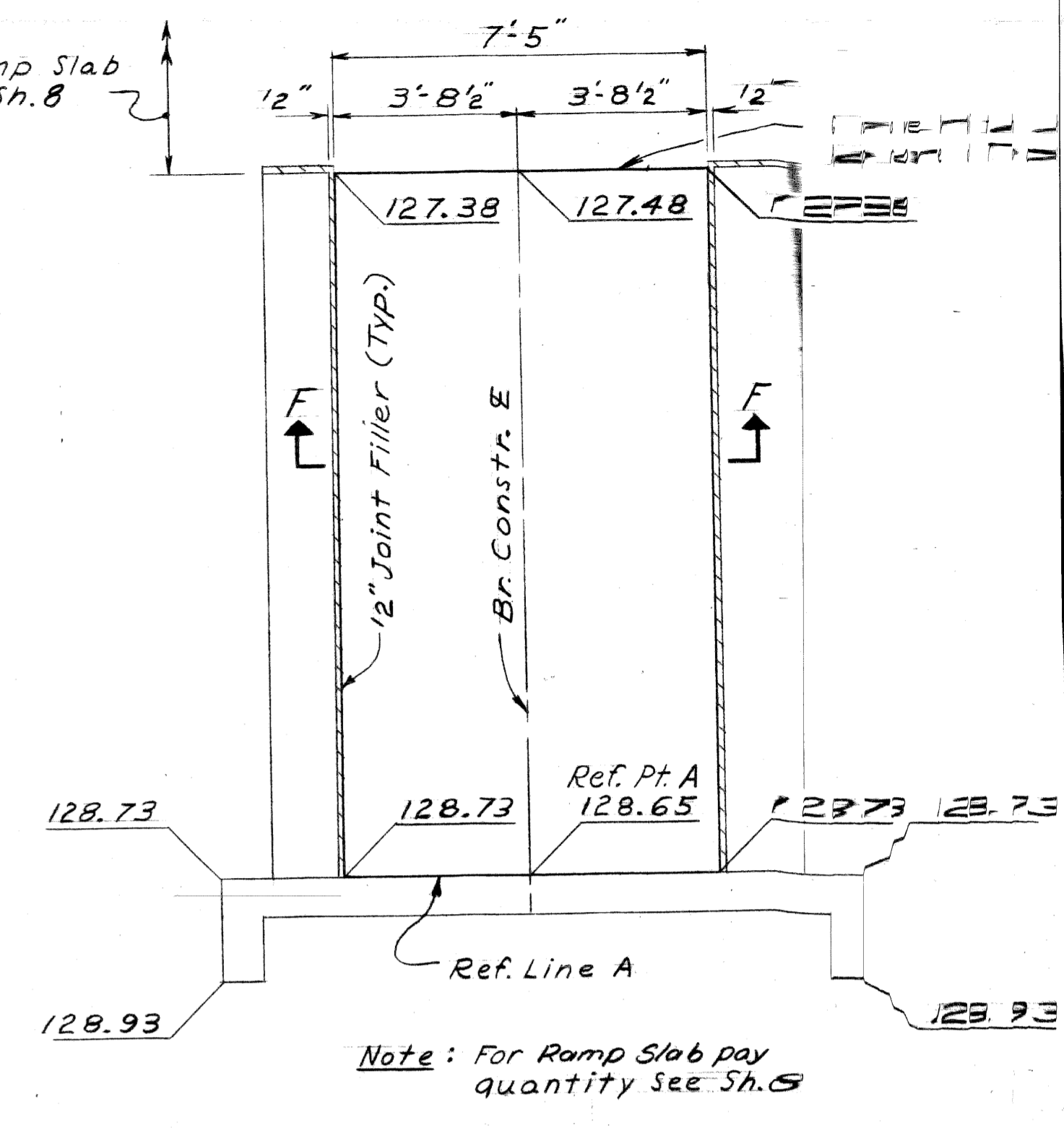
PLAN OF TOP



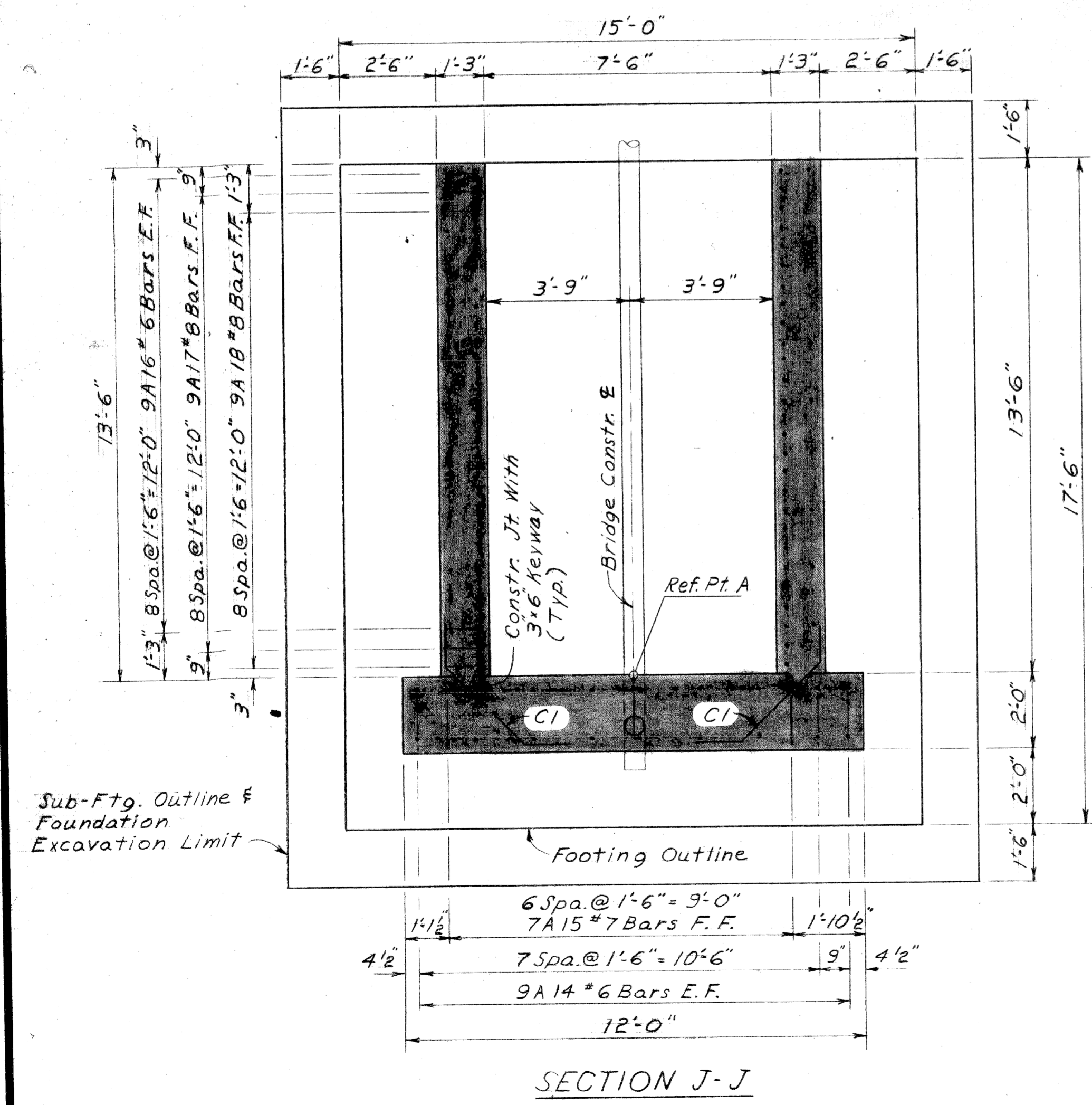
ELEVATION



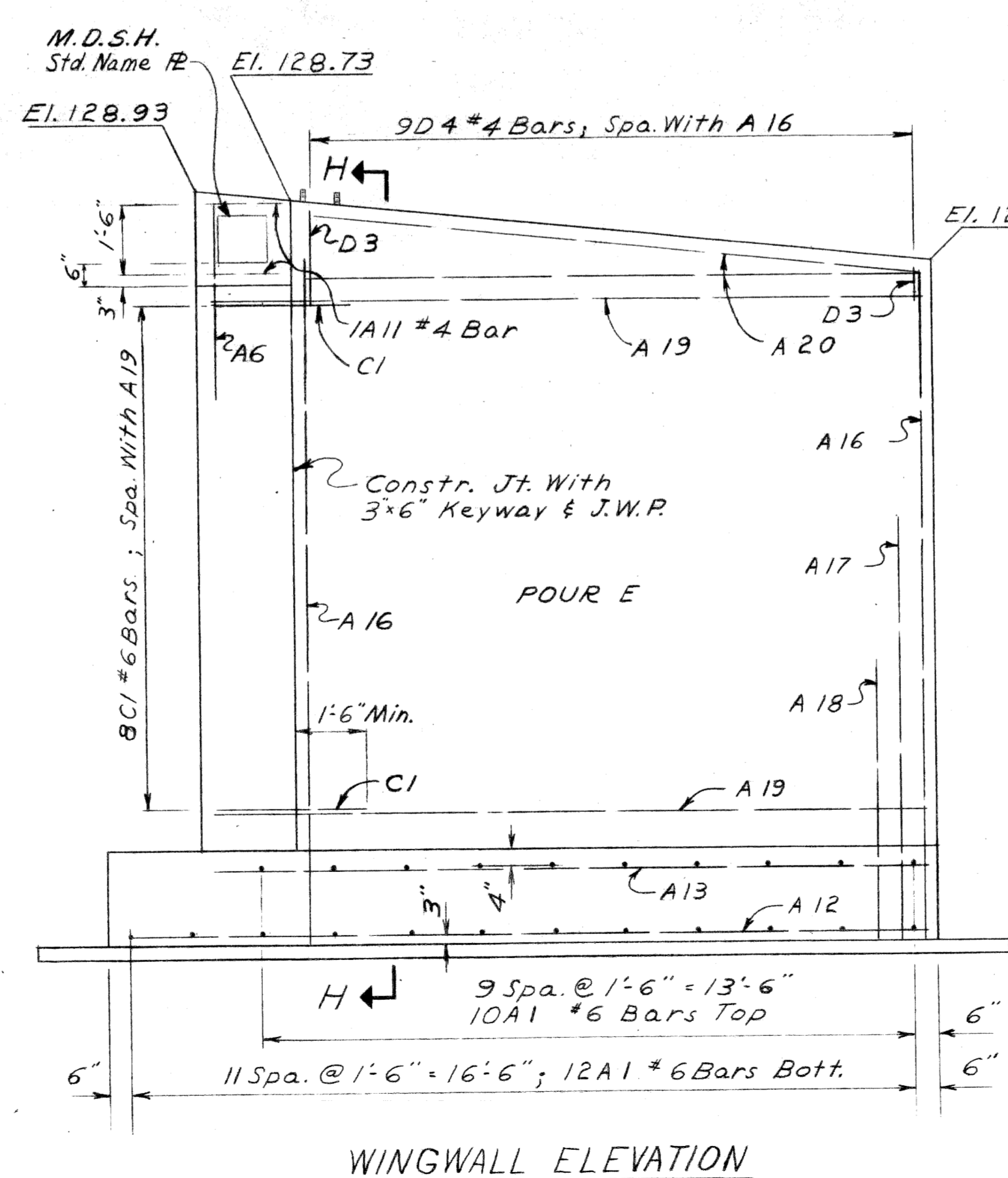
SECTION G-G



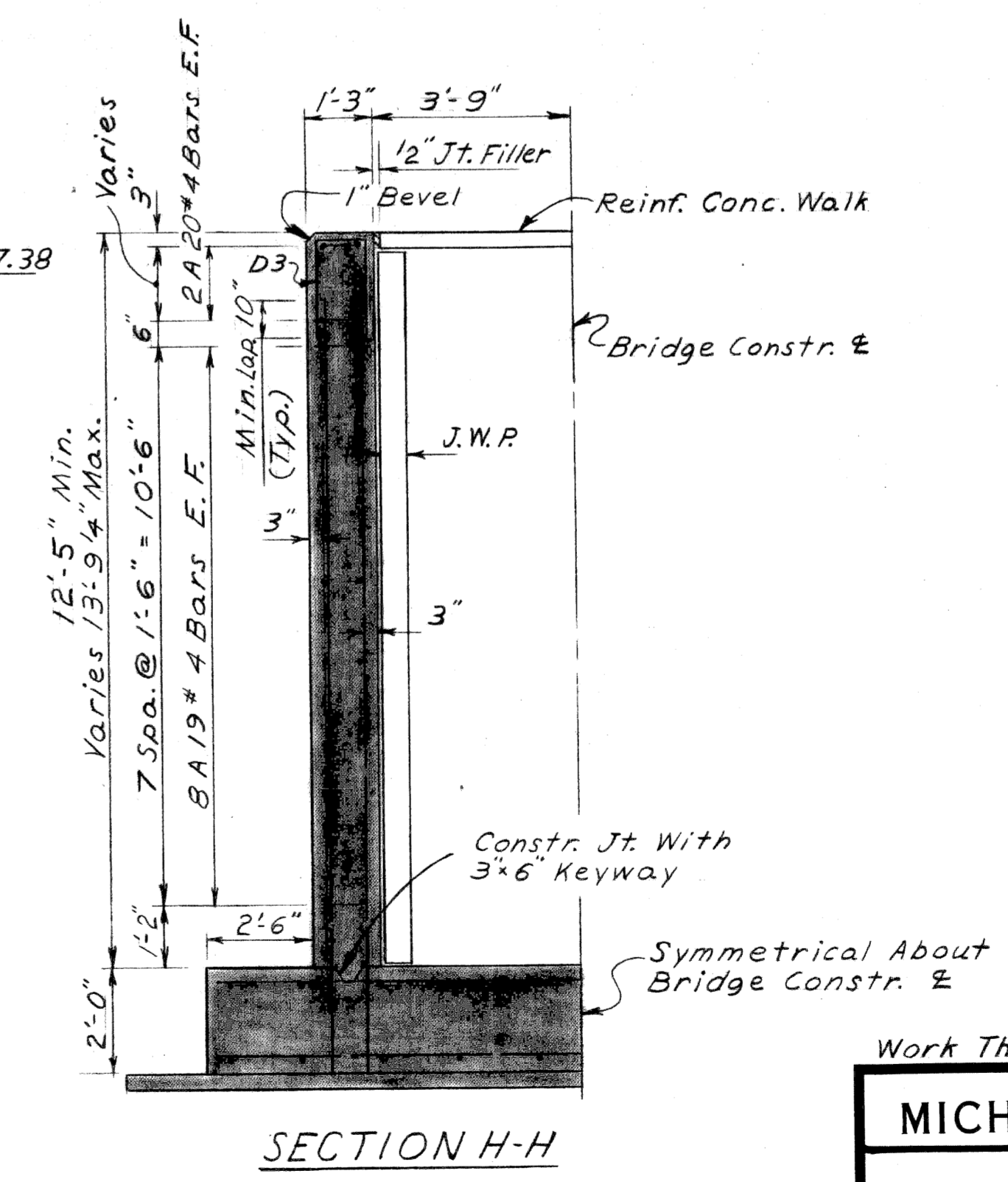
PLAN OF RAMP SLAB



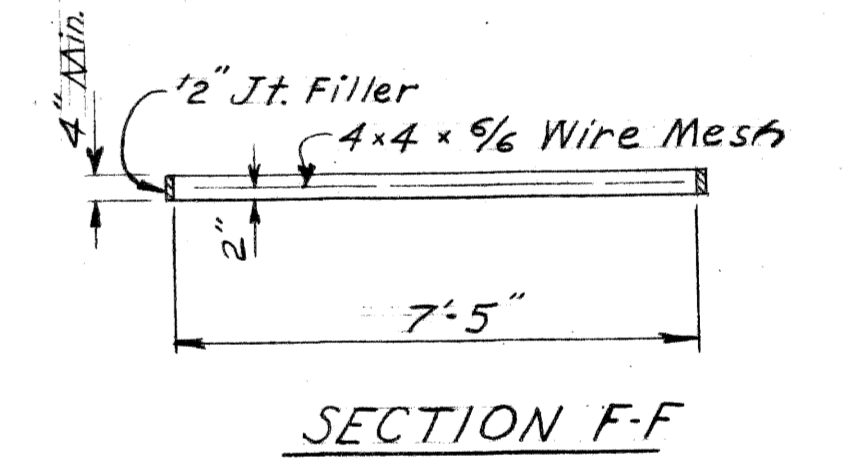
SECTION J-J



WINGWALL ELEVATION



SECTION H-H



SECTION F-F

PLANS PREPARED BY  
 CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERS OFFICE  
 BUREAU OF HIGHWAYS AND EXPRESSWAYS  
 APPROVED: [Signature] STRUCTURAL ENGINEER  
 JOB No. PW 990(4)

Work This Sheet With Sheet #7

**MICHIGAN STATE HIGHWAY DEPARTMENT**  
 SELDEN AVE. PEDESTRIAN BRIDGE  
 CROSSING THE JEFFRIES FREEWAY IN DETROIT

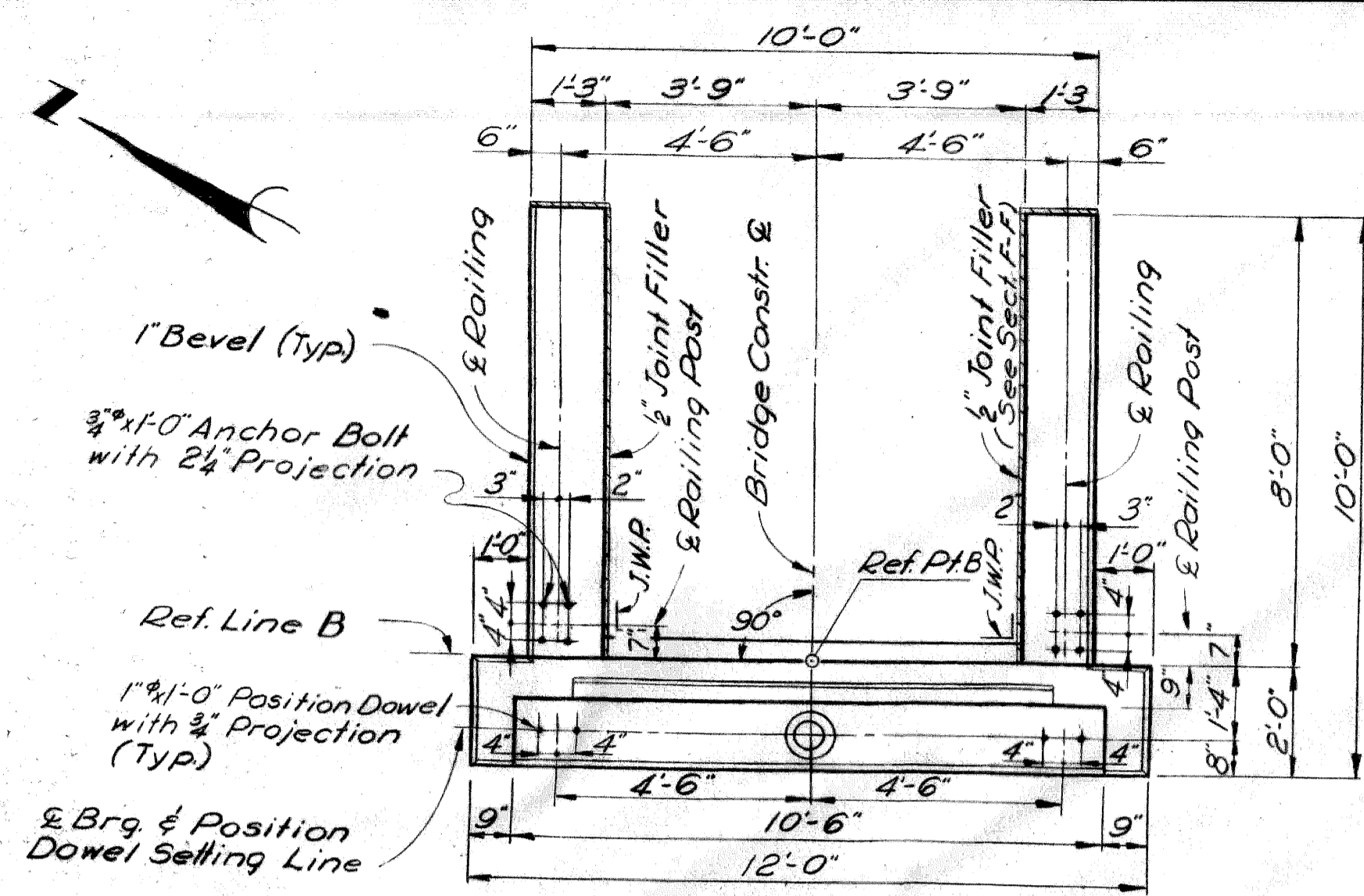
**ABUTMENT A DETAILS**

NO.	DESCRIPTION	DATE	BY

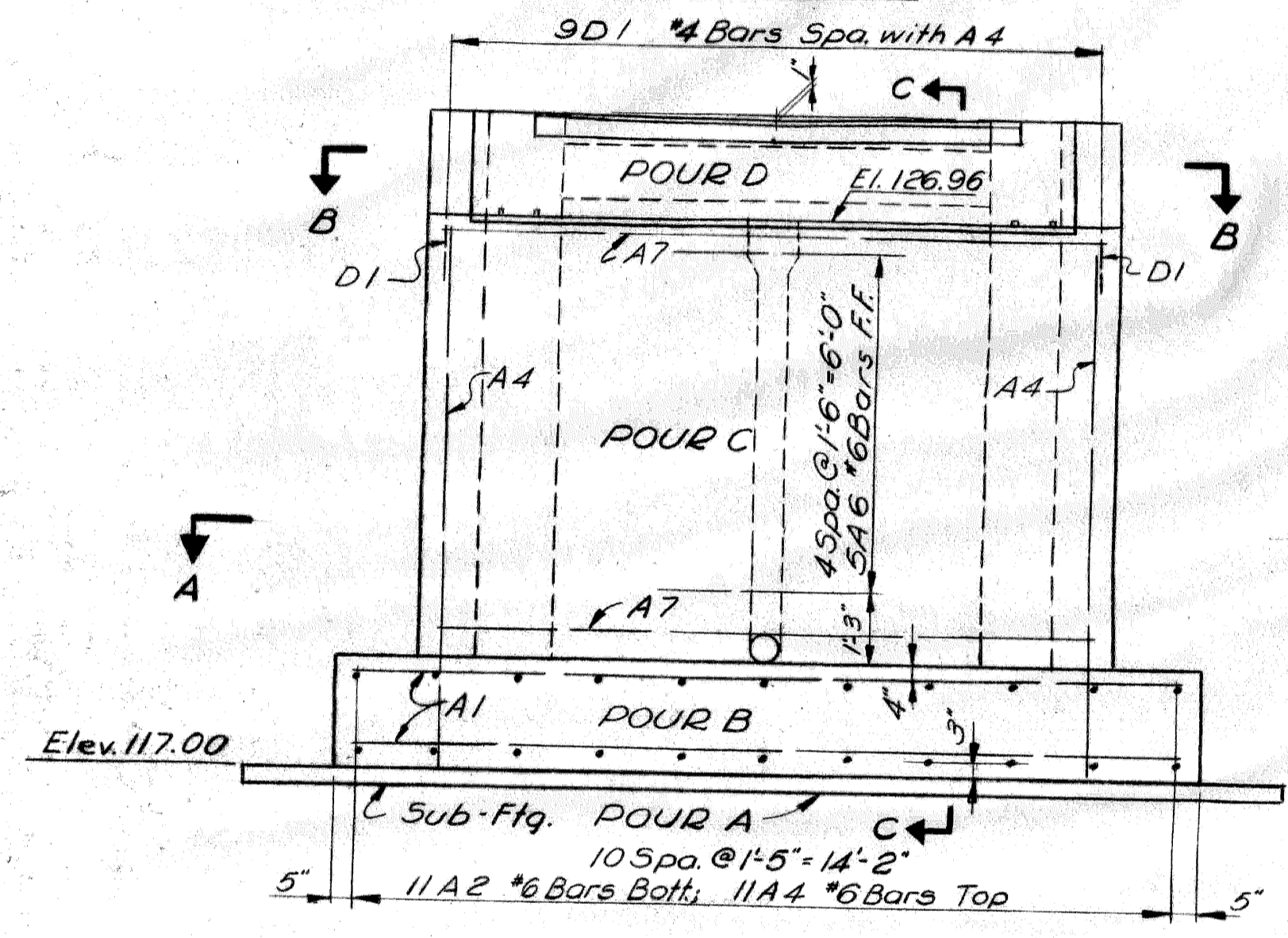
REVISIONS	DATE	BY

CITY OF DETROIT  
 SQUAD ROSS: [Signature] 5-67  
 DRAWN BY: NAGLE 4-67  
 CHECKED BY: K.V.H. 4-67  
 SHEET 6 OF 14  
**POI of 82124 A**

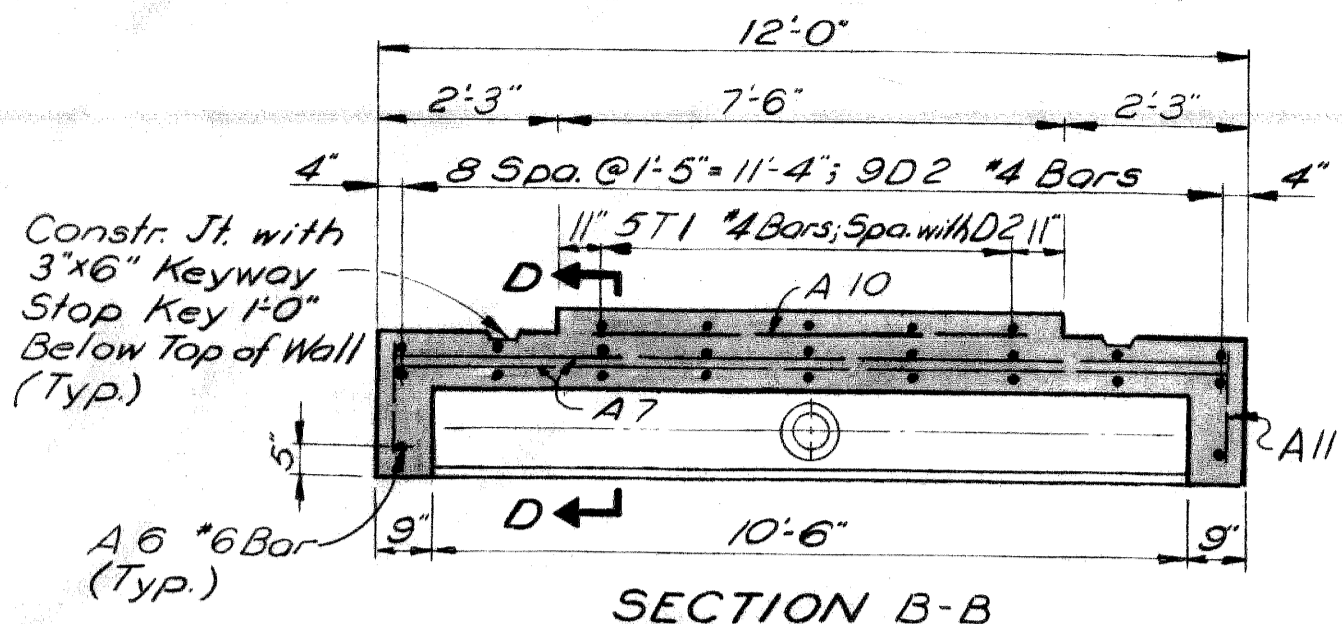




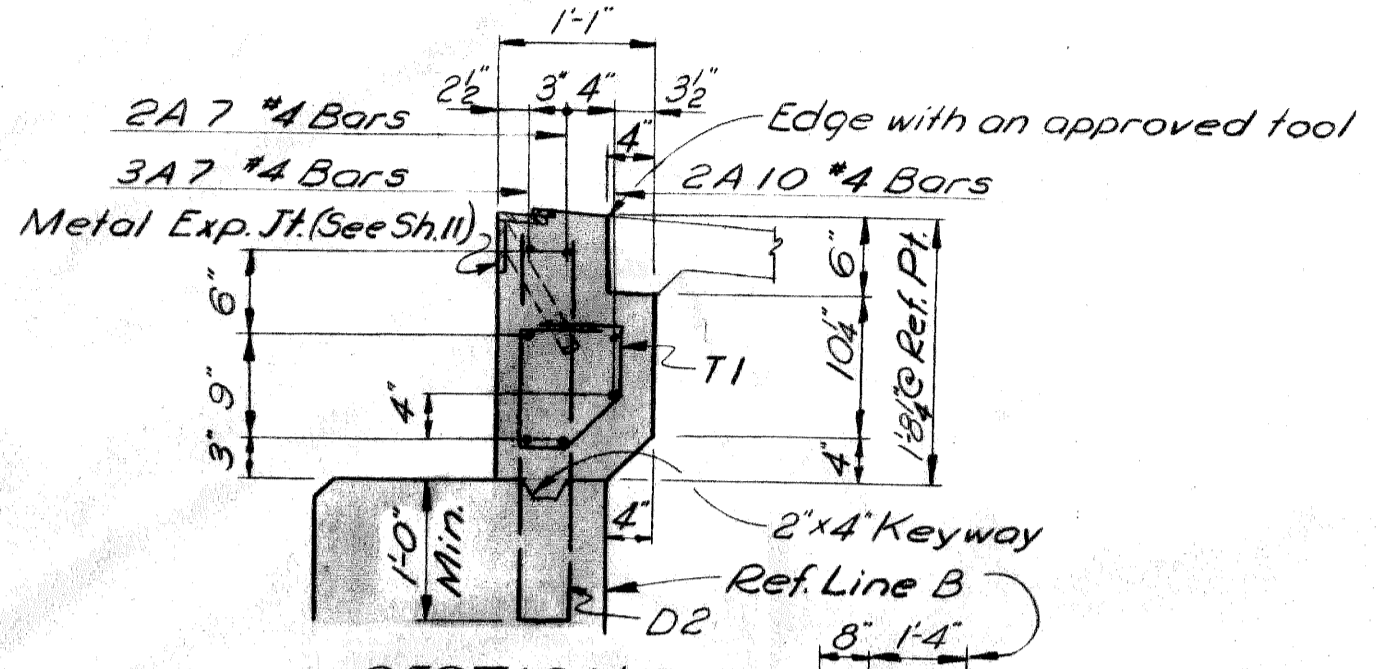
PLAN OF TOP



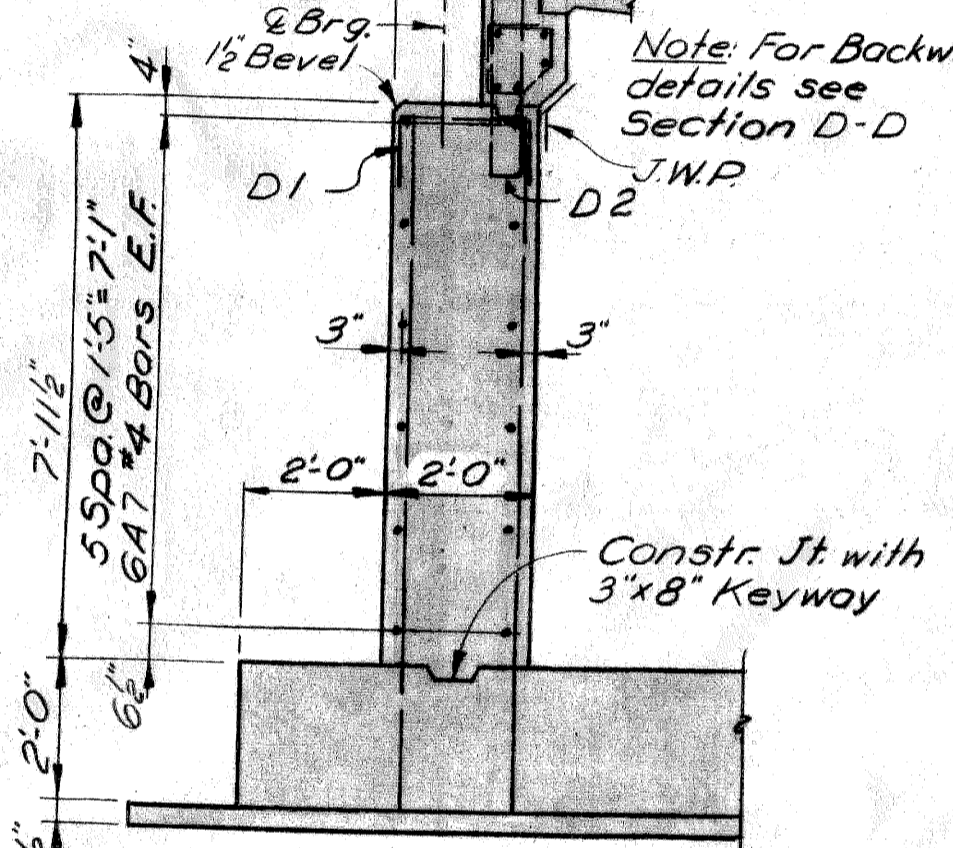
ELEVATION



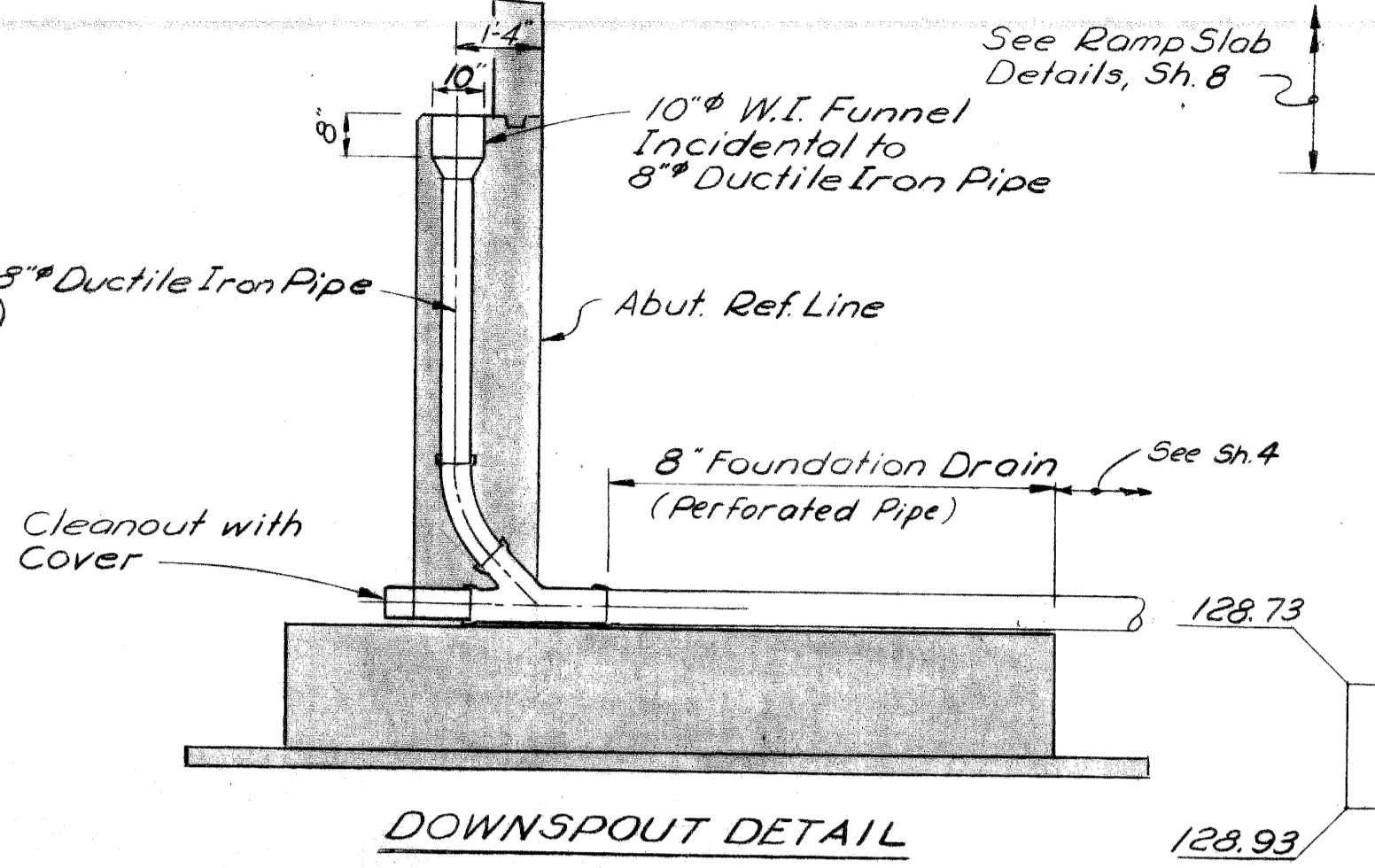
SECTION B-B



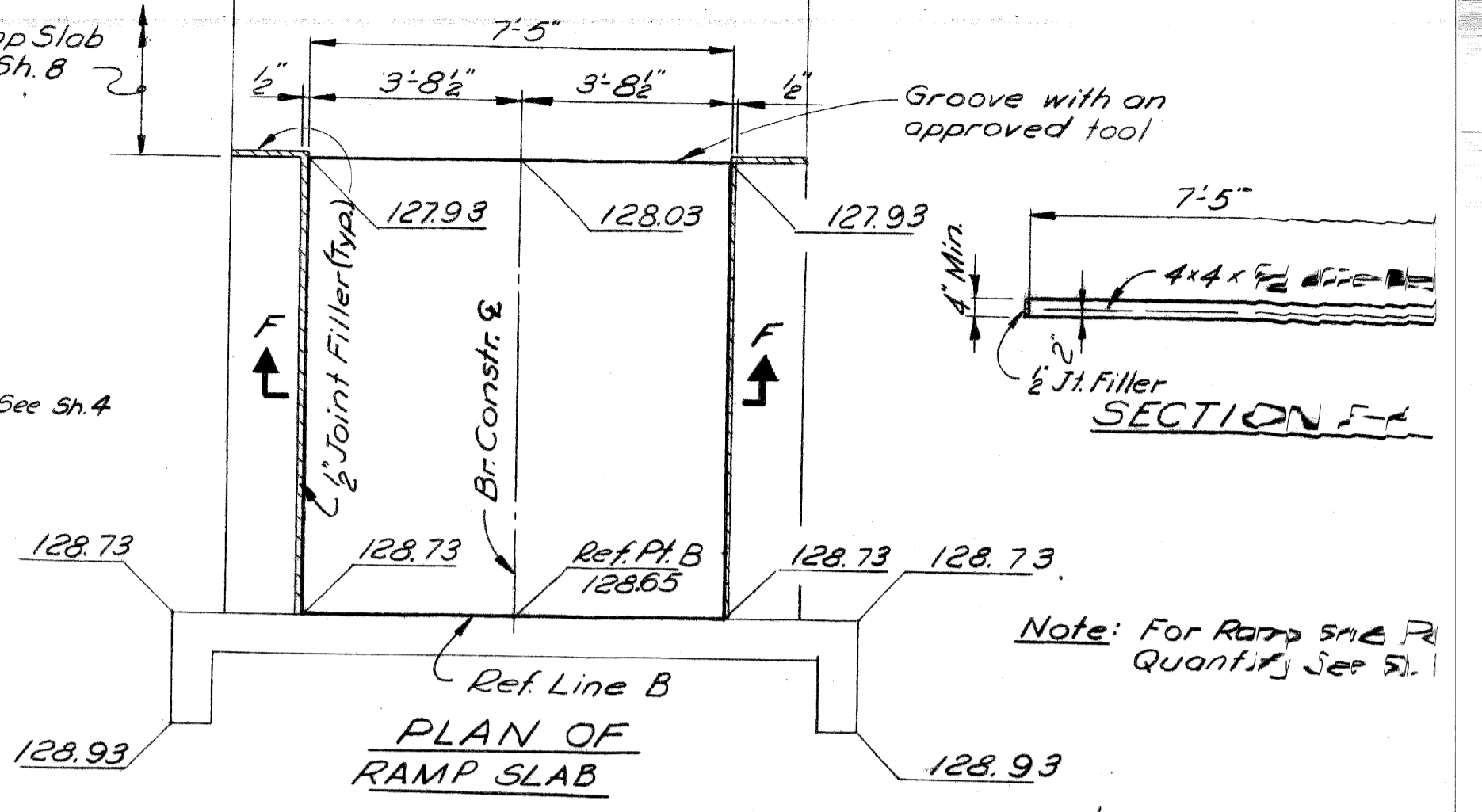
SECTION D-D



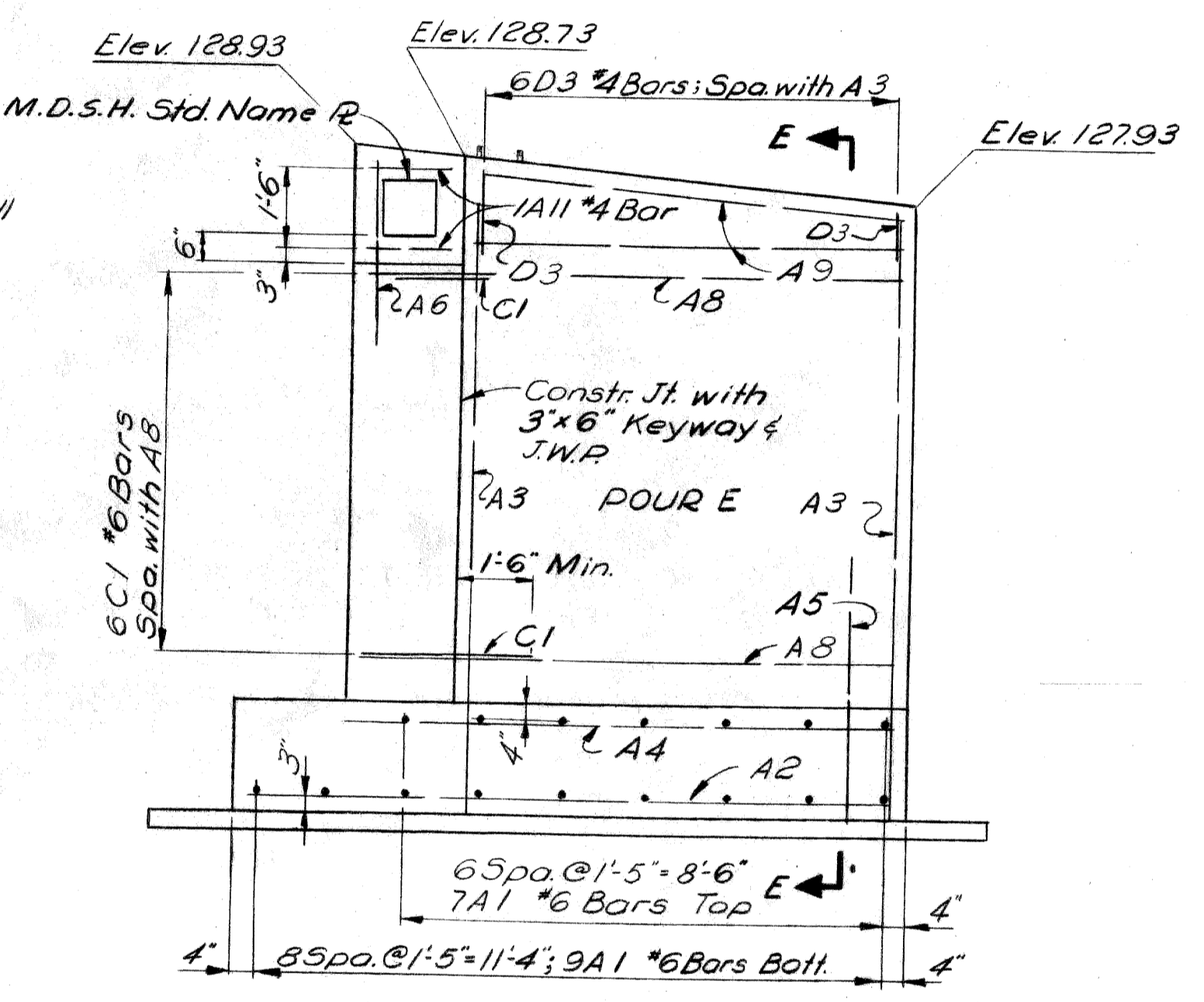
SECTION C-C



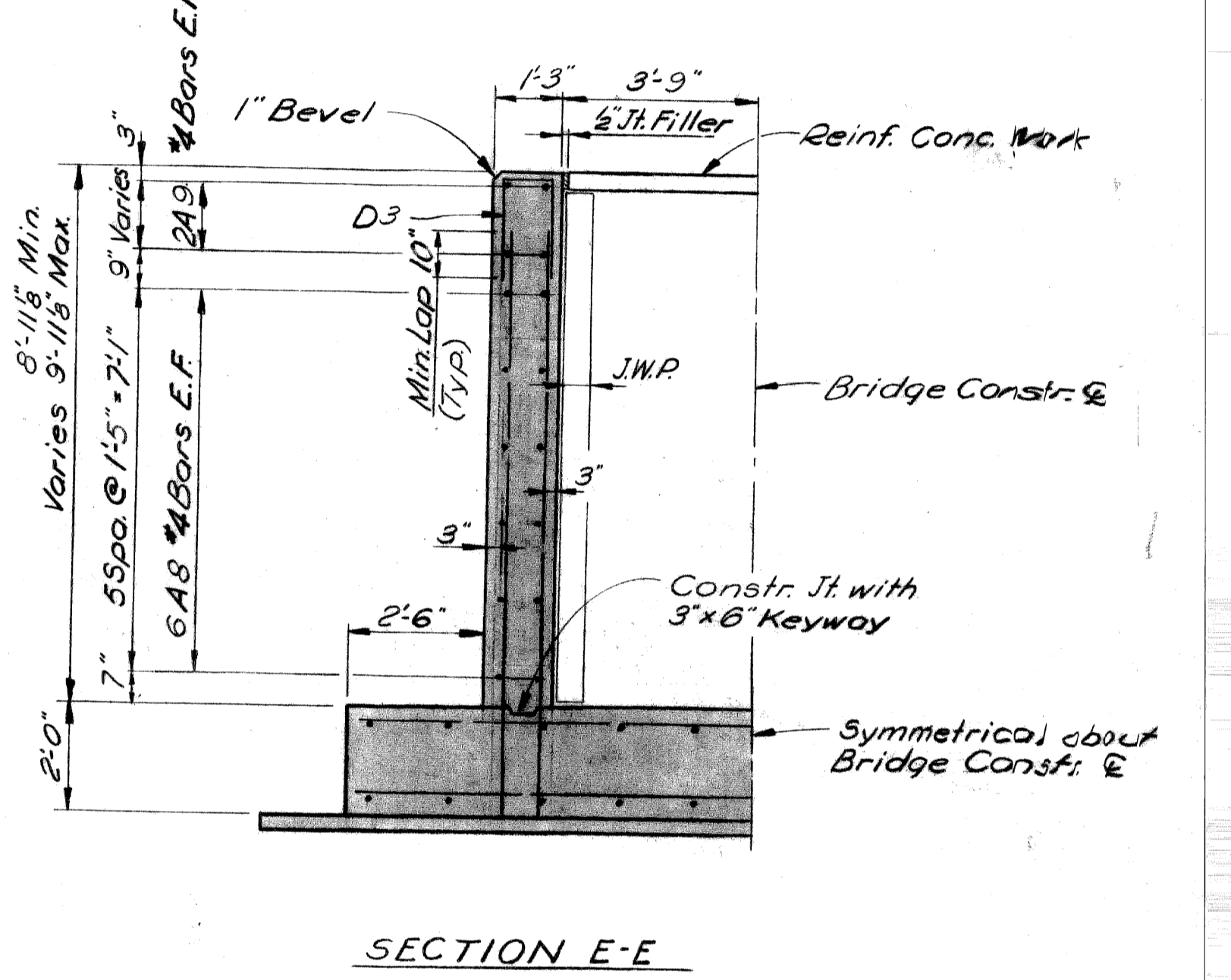
DOWNSPOUT DETAIL



PLAN OF RAMP SLAB



WINGWALL ELEVATION

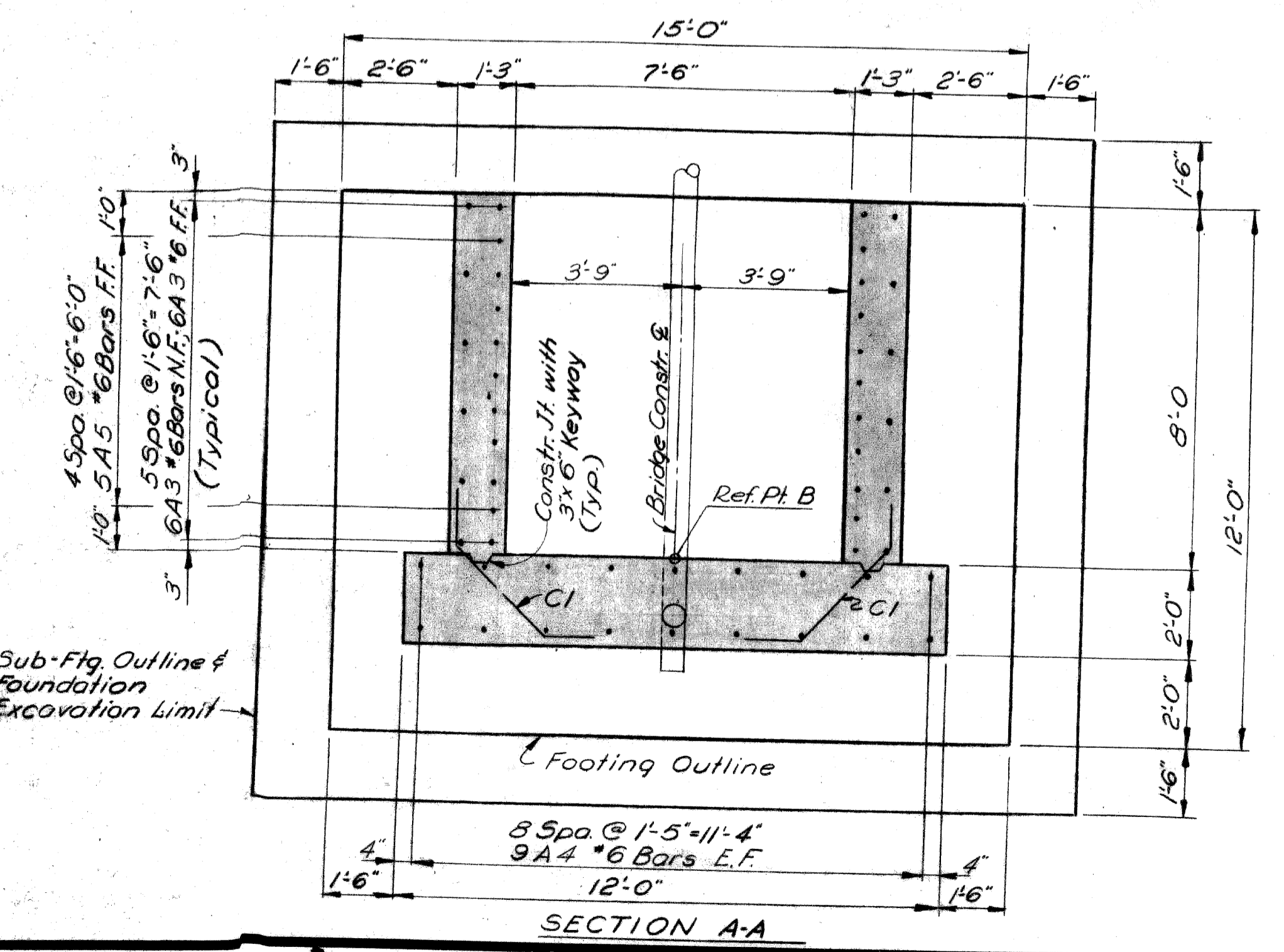


SECTION E-E

CONCRETE QUANTITIES Cu.Yds.				
POUR	LOCATION	ABUT.A	ABUT.B	
A	Subfooting	4.0	2.9	
B	Footing	19.5	13.3	
Total Gr. A(6A) =		39.7		
C	Abutment Stem	10.5	6.9	
D	Backwall	.8	.8	
E	Wingwalls	16.4	6.9	
Total Gr. A(6AA) =		42.3		

MISCELLANEOUS QUANTITIES				
ITEM	UNIT	ABUT.A	ABUT.B	TOTAL
Unclassified Excavation	Cu.Yds.	11.8	6.3	18.1
Protective Sealant Coating	Sq.Ft.	13	13	26
Low Temperature Protection	Cu.Yds.	4.7	2.8	7.5
1/2" Joint Filler	Sq.Ft.	10	7	17
Joint Waterproofing	Sq. Ft.	53	40	93
8" Foundation Drain	Lin. Ft.	14	8	22
8" Ductile Iron Pipe	Lin. Ft.	12	10	22

**GENERAL NOTES:**  
 J.W.P. denotes Joint Waterproofing.  
 N.F. denotes Near Face, F.F. denotes Far Face, E.F. denotes Each Face.  
 For bevel mauling and name plate mounting details, see Std. Sheet R11 or R12.  
 For location of name plate see General Plan of Structure Sheet.  
 Anchor Bolts and Position Dowels shall be set accurately to a template.  
 The Project Engineer shall adjust the spacing of reinforcing steel as required to permit placing of anchor bolts, position dowels and downspout.  
 The tops of Abutments A and B shall be given an application of protective sealant coating for concrete prior to placing masonry plates.  
 Maximum average foundation pressure D.L. only = 1,900 #/sq. ft.  
 Maximum foundation pressure D.L. and L.L. = 2,700 #/sq. ft.



SECTION A-A

Work this sheet with sheet 6

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

SELDEN AVE. PEDESTRIAN BRIDGE  
 CROSSING THE JEFFRIES FREEWAY IN DETROIT

ABUTMENT B DETAILS

PLANS PREPARED BY  
 CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERS OFFICE  
 BUREAU OF HIGHWAYS AND EXPRESSWAYS  
 APPROVED: [Signature] STRUCTURAL ENGINEER

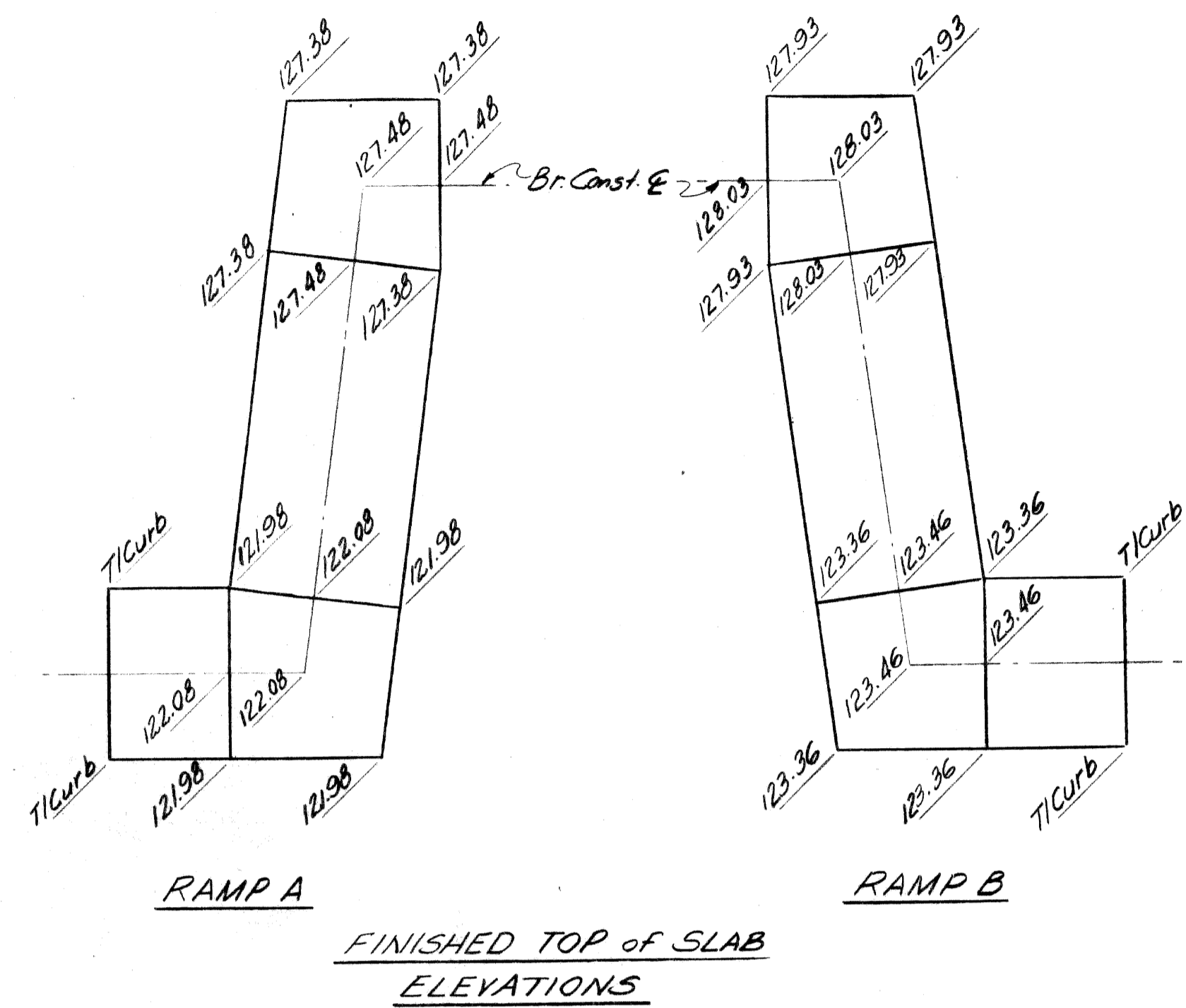
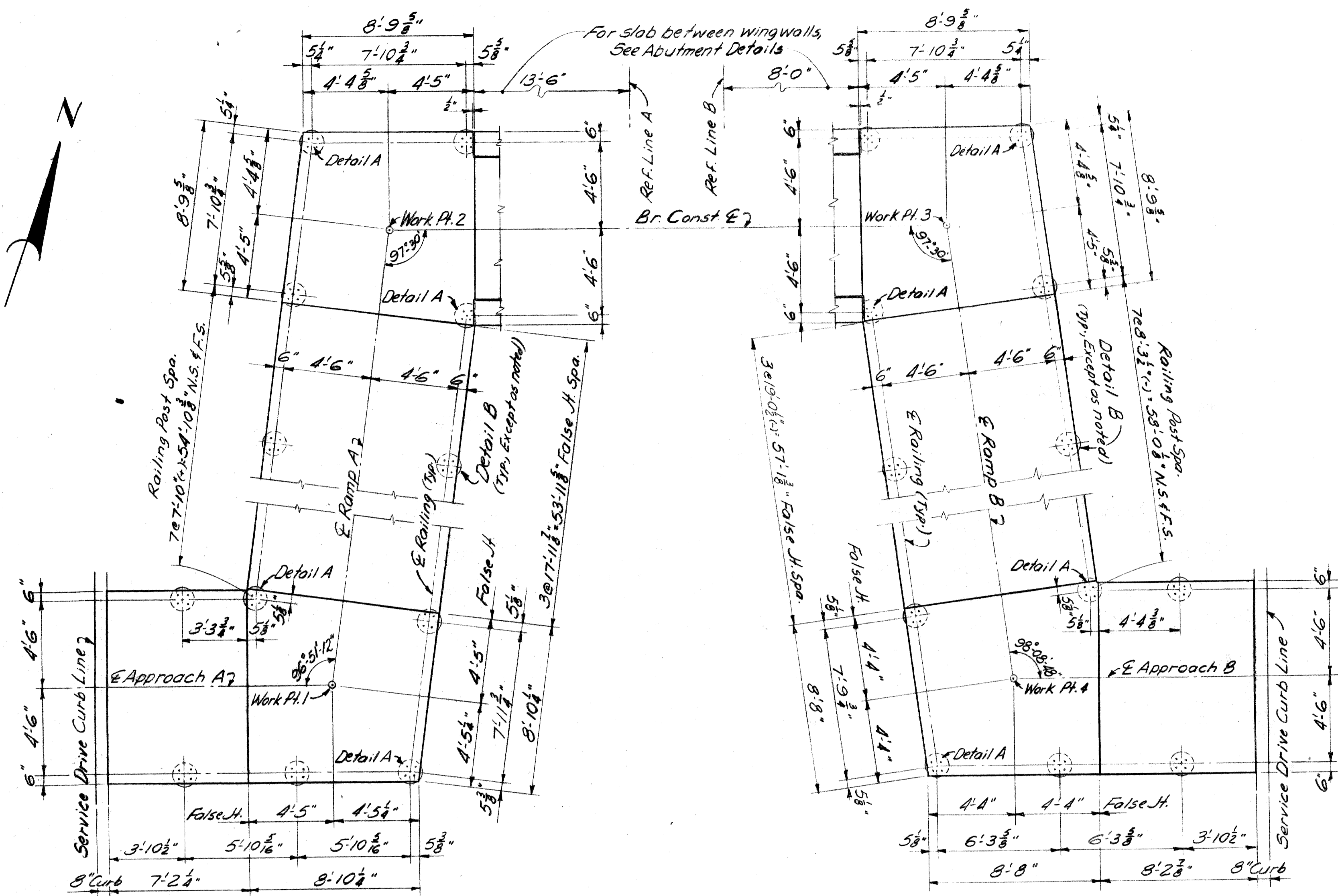
JOB No.  
 PW 990(1)

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SHEET			
NO.	DESCRIPTION	DATE	BY

POI of 82124A





NOTES

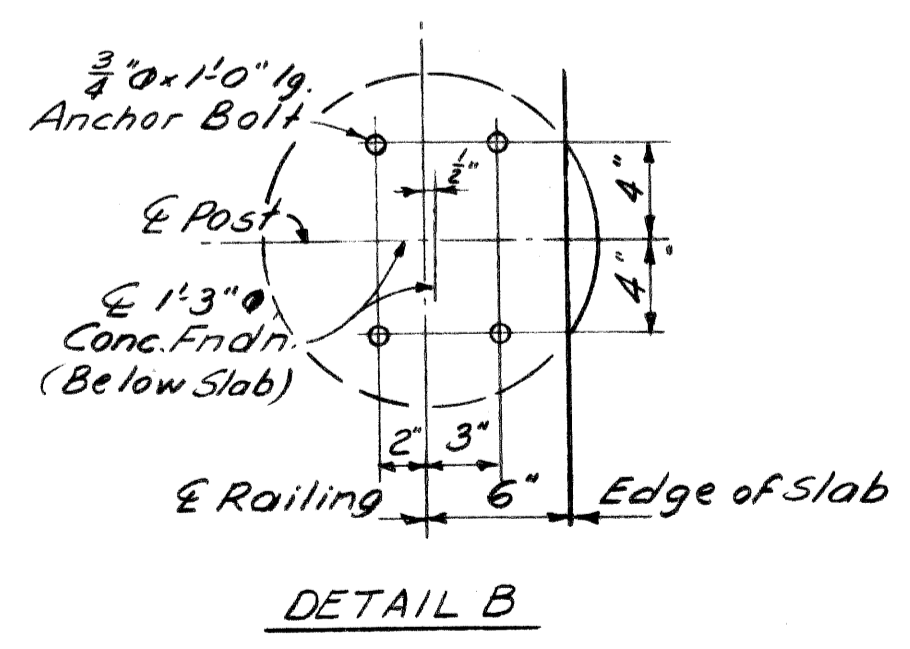
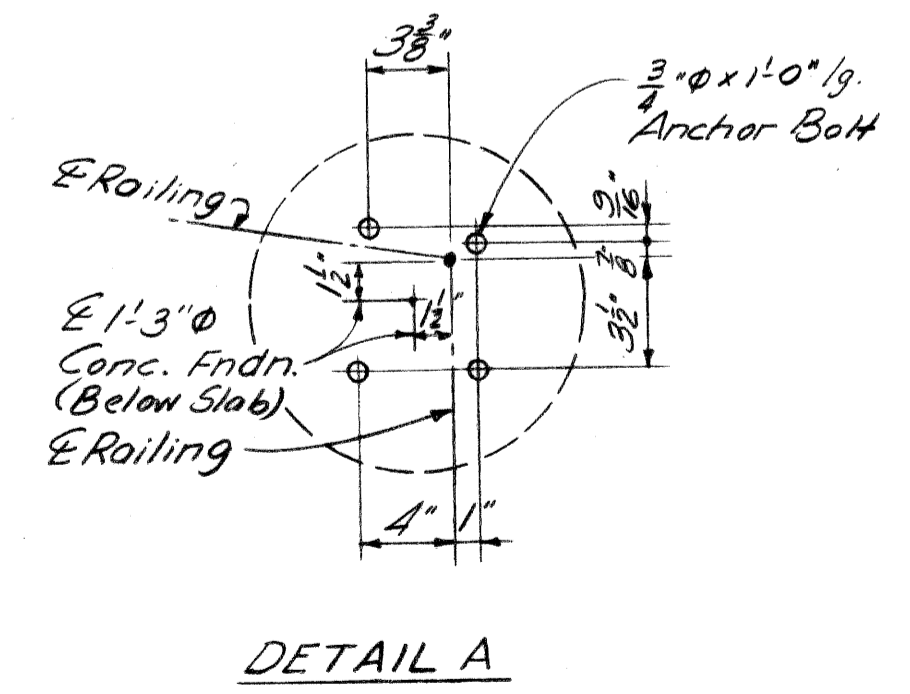
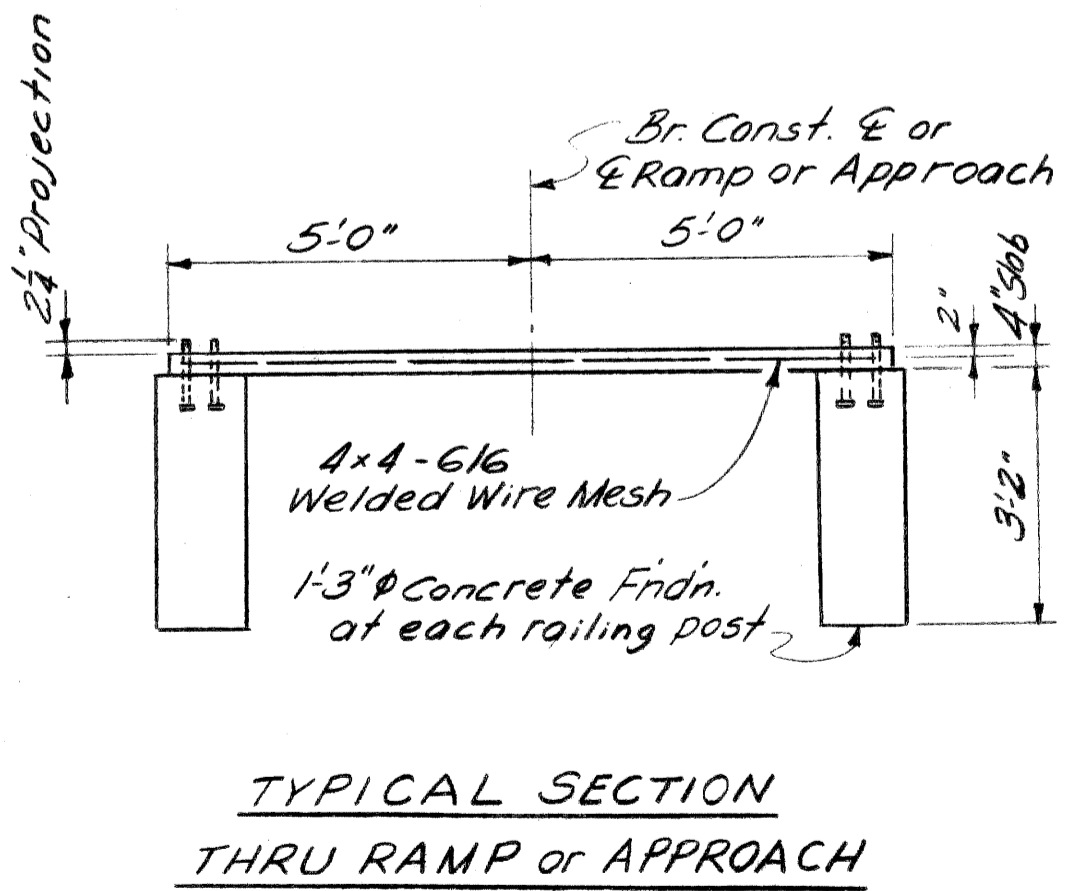
N.S. & F.S. denotes near side and far side.

Form false joints by grooving with an approved tool.

Excavation for railing post foundations is incidental.

Grade A (6A) Conc. - Substr. (Cu. Yds)			
LOCATION	RAMP A	RAMP B	TOTAL
Railing Post Fdn's	3.2	3.2	6.4
Ramp Slabs	11.0	11.0	22.0
Total	14.2	14.2	28.4

MISCELLANEOUS QUANTITIES				
ITEM	UNIT	RAMP A	RAMP B	TOTAL
Welded Wire Mesh	Sq. Ft.	845	845	1690



PLANS PREPARED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: [Signature] STRUCTURAL ENGINEER

JOB No. PW 990(1)

MICHIGAN STATE HIGHWAY DEPARTMENT

SELDEN AVE. PEDESTRIAN BRIDGE  
CROSSING THE JEFFRIES FREEWAY IN DETROIT

RAMP DETAILS

REVISIONS

NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT

SQUAD BOSS: S. D. [Signature] 5-67

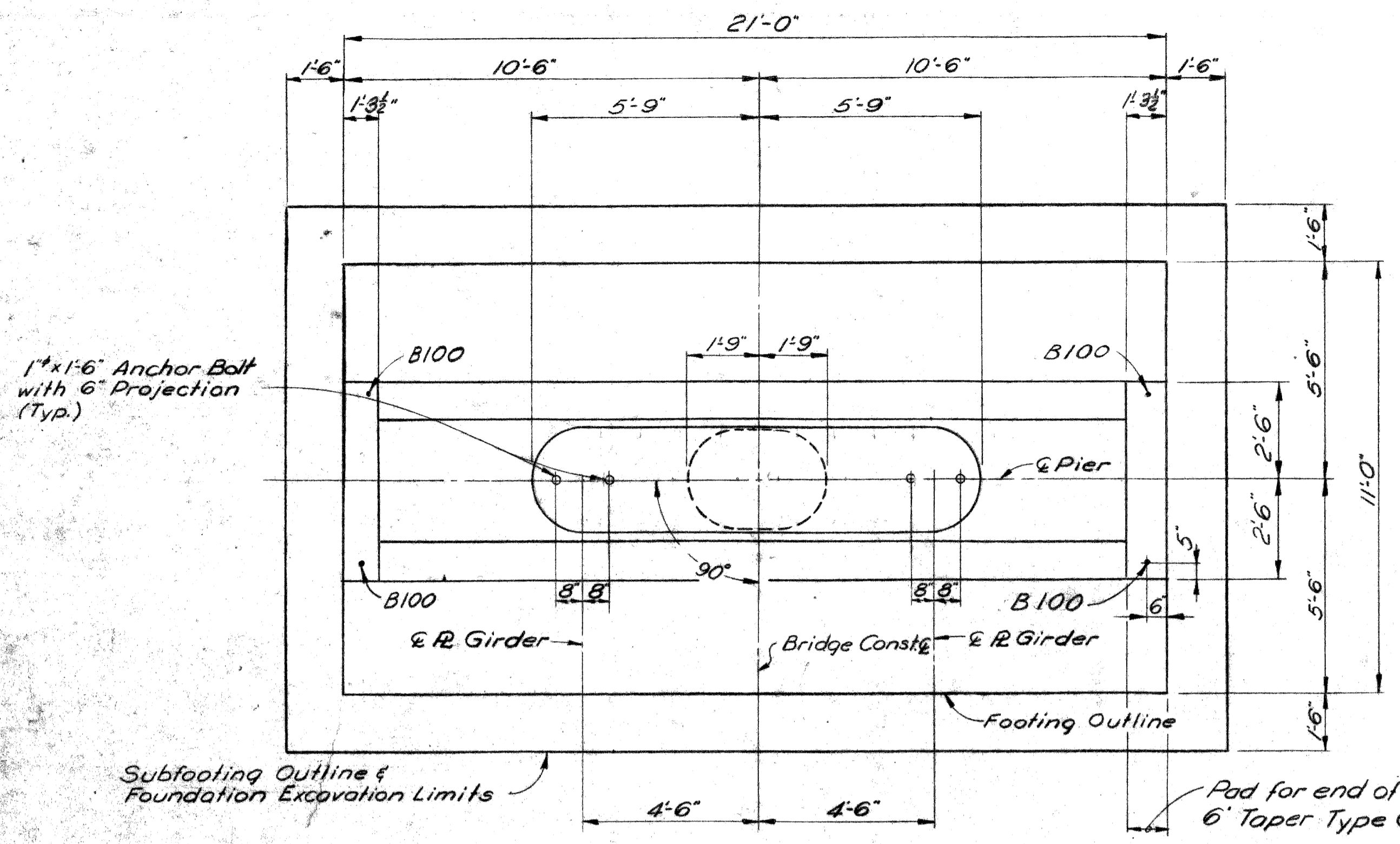
DRAWN BY: J. H. S. 4-67

CHECKED BY: K. V. H. 4-67

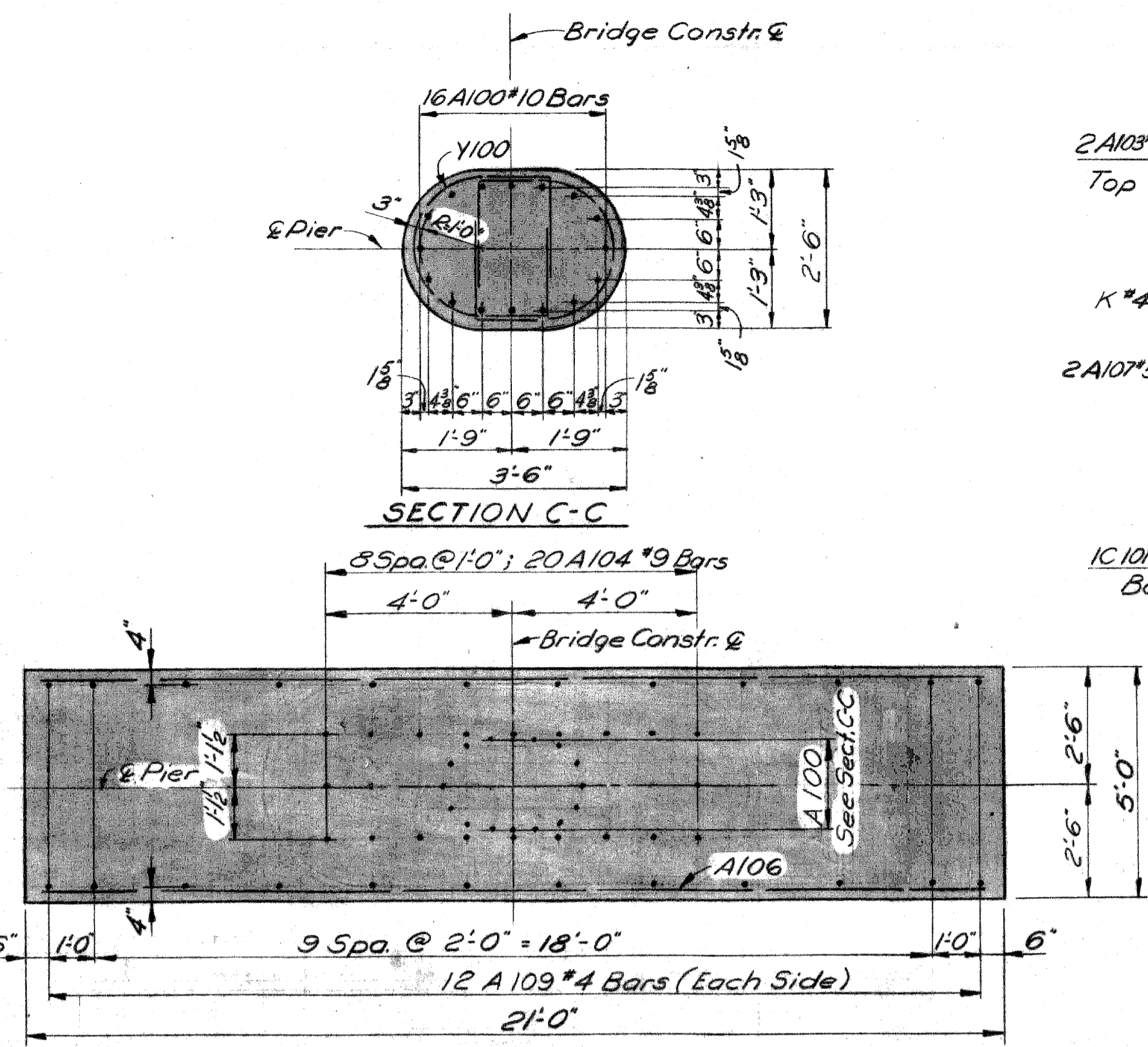
SHEET 8 of 14

POI of 82124 A

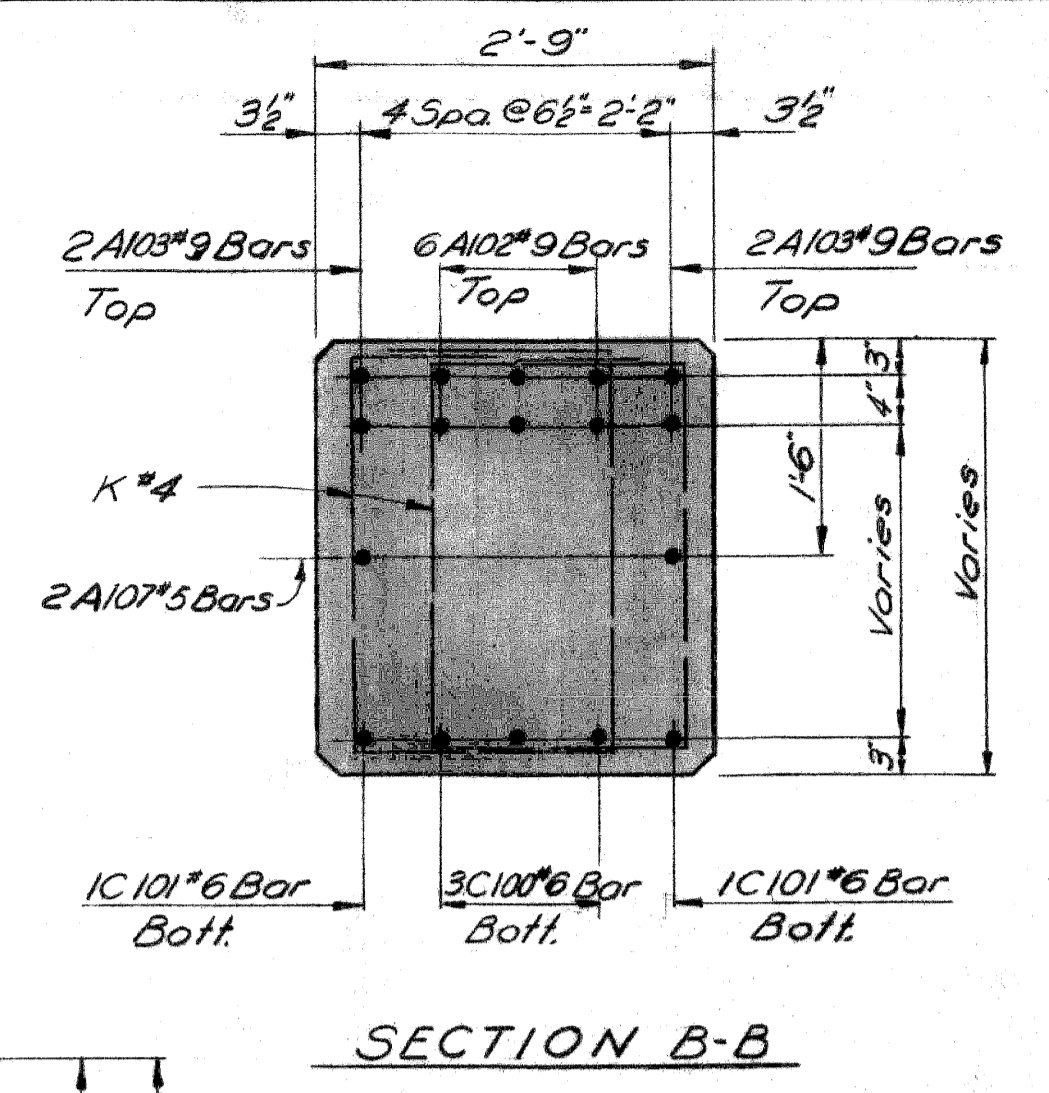




PLAN



SECTION D-D



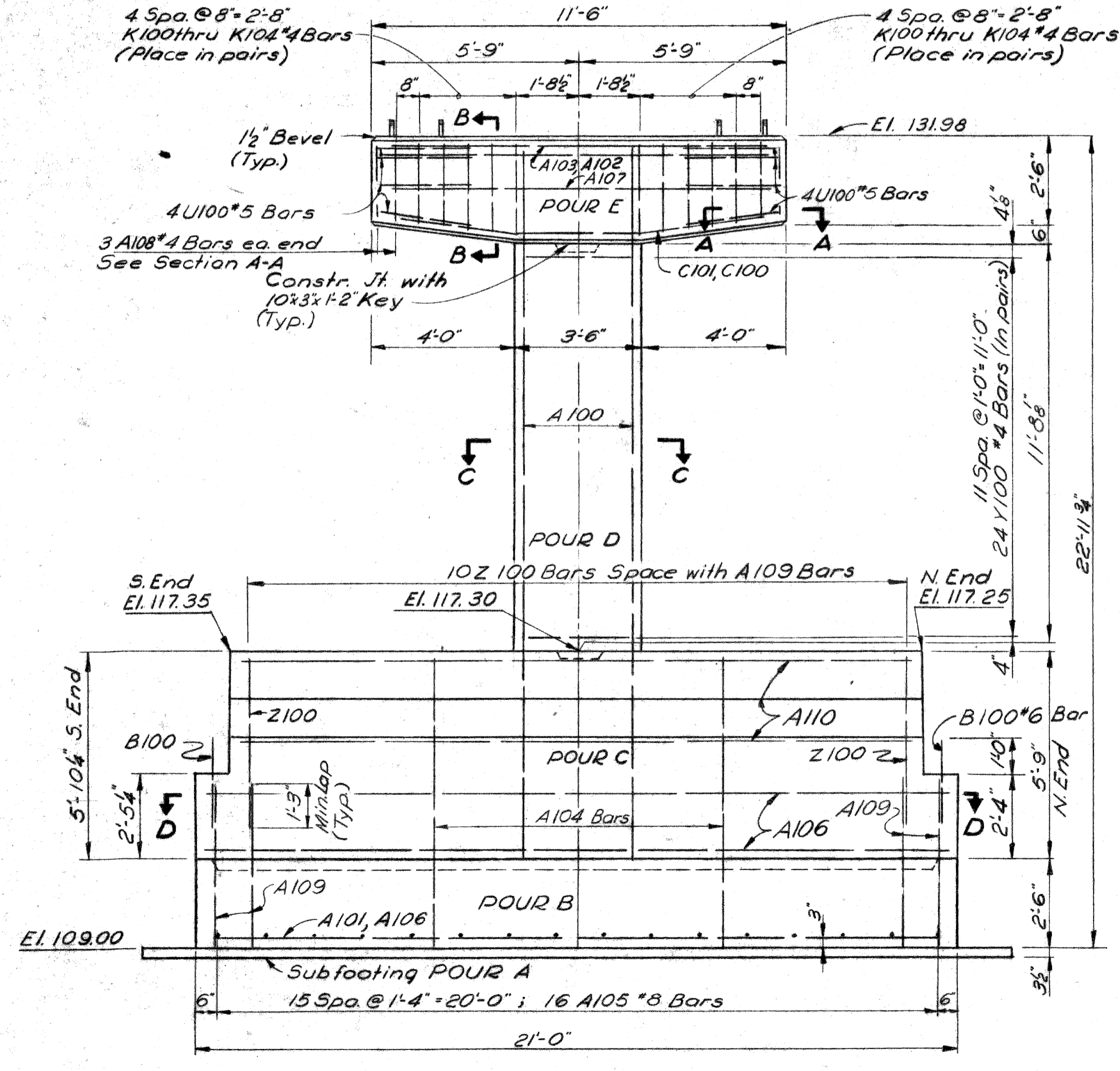
SECTION B-B

SECTION A-A

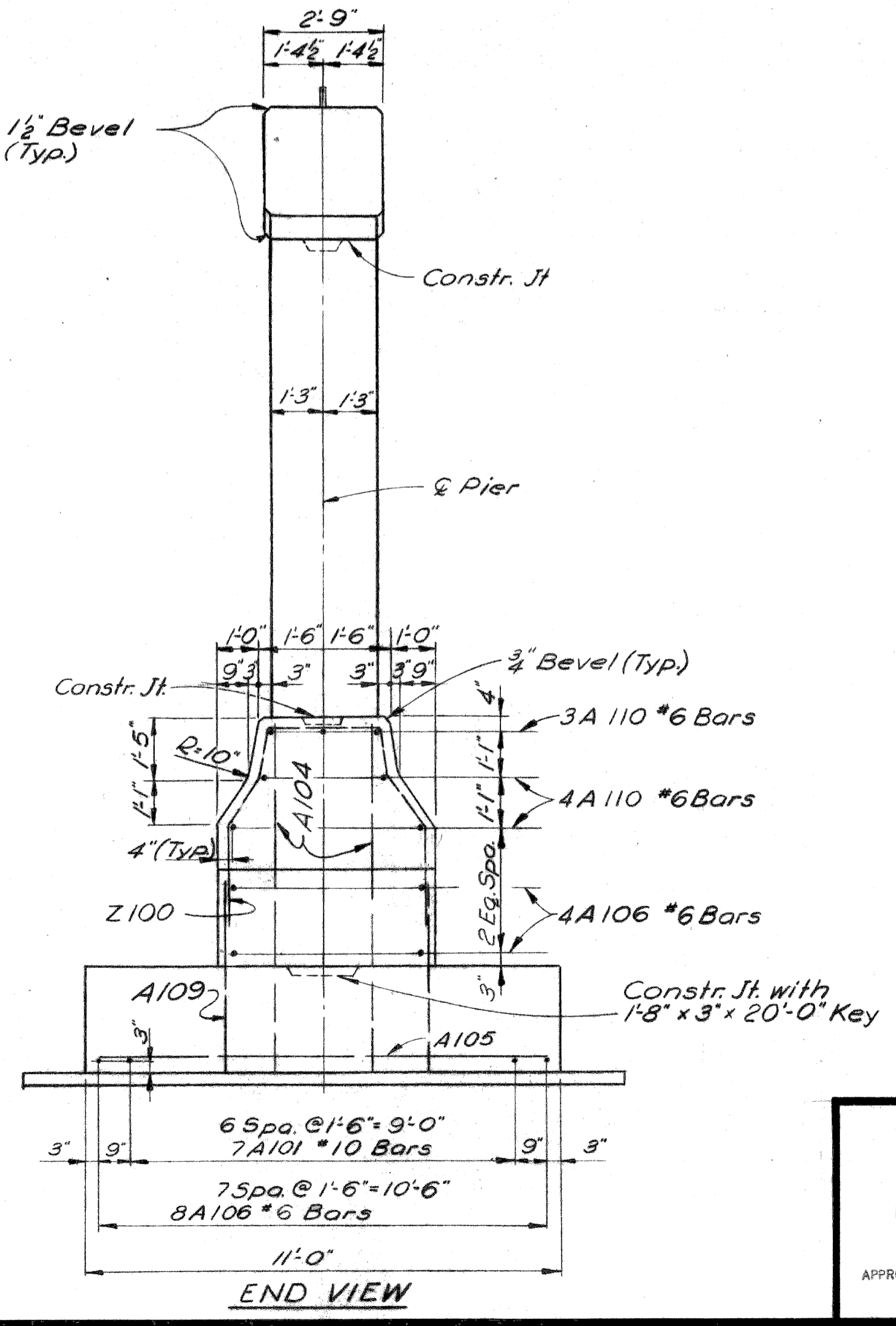
CONCRETE QUANTITIES CU.YDS.			
Pour	Location	Gr.A(6A)	Gr.A(6AA)
A	Subfooting	3.6	—
B	Footing	21.4	—
C	Barrier	—	19.0
D	Column	—	3.2
E	Cap	—	3.2
Total Grade A(6A)		25.0	
Total Grade A(6AA)		25.4	

MISCELLANEOUS QUANTITIES		
Item	Unit	Amount
Unclassified Excavation	Cu.Yds.	44
Protective Sealant Coating	Sq. Ft.	402
Low Temperature Protection	Cu.Yds.	47

**GENERAL NOTES:**  
 For bevel and molding details see Std. Sheet R11 and R12.  
 Anchor Bolts shall be set accurately to a template.  
 The Project Engineer shall adjust the spacing of the reinforcing steel as required to permit placing of anchor bolts.  
 Pier Column and Barrier shall be given an application of Clear Protective Sealant Coating for Concrete. The use of membrane curing compound is prohibited where this material is to be applied.  
 Maximum average foundation pressure D.L. only = 1700 Lbs./Sq. Ft.  
 Maximum foundation pressure D.L. and L.L. = 2000 Lbs./Sq. Ft.



ELEVATION



END VIEW

PLANS PREPARED BY  
 CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERS AND EXPRESSWAYS  
 BUREAU OF HIGHWAYS AND EXPRESSWAYS  
 APPROVED: [Signature] STRUCTURAL ENGINEER  
 JOB No. PW 990(1)

**MICHIGAN STATE HIGHWAY DEPARTMENT**  
 SELDEN AVE. PEDESTRIAN BRIDGE  
 CROSSING THE JEFFRIES FREEWAY IN DETROIT

**PIER DETAILS**

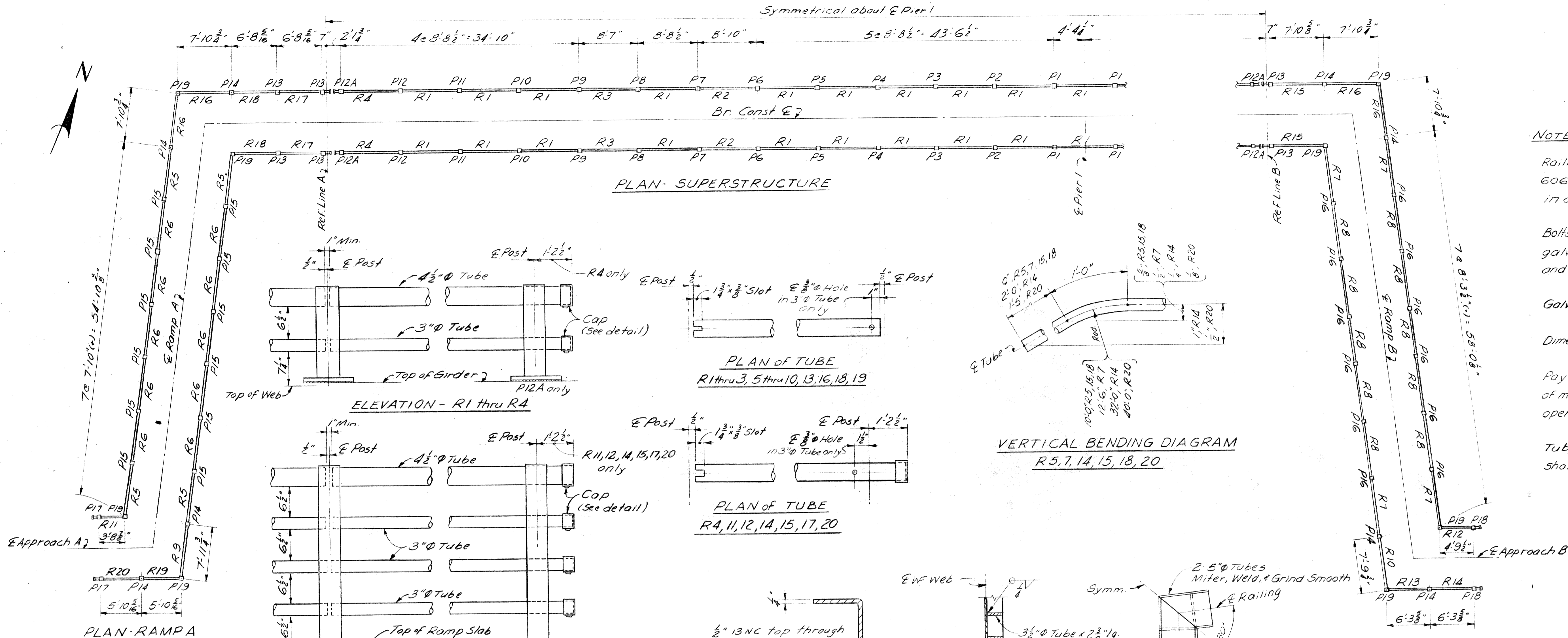
NO.	DESCRIPTION	DATE	BY

REVISIONS

CITY OF DETROIT  
 DRAWN BY: [Signature] 5-67  
 CHECKED BY: [Signature] 6/66  
 SHEET 9 OF 14  
 POI of 82124A



Symmetrical about E Pier 1



**NOTES**

Railing may be either aluminum alloy 6061 T6 (ASTM B 235) or steel galvanized in accordance with ASTM A123.

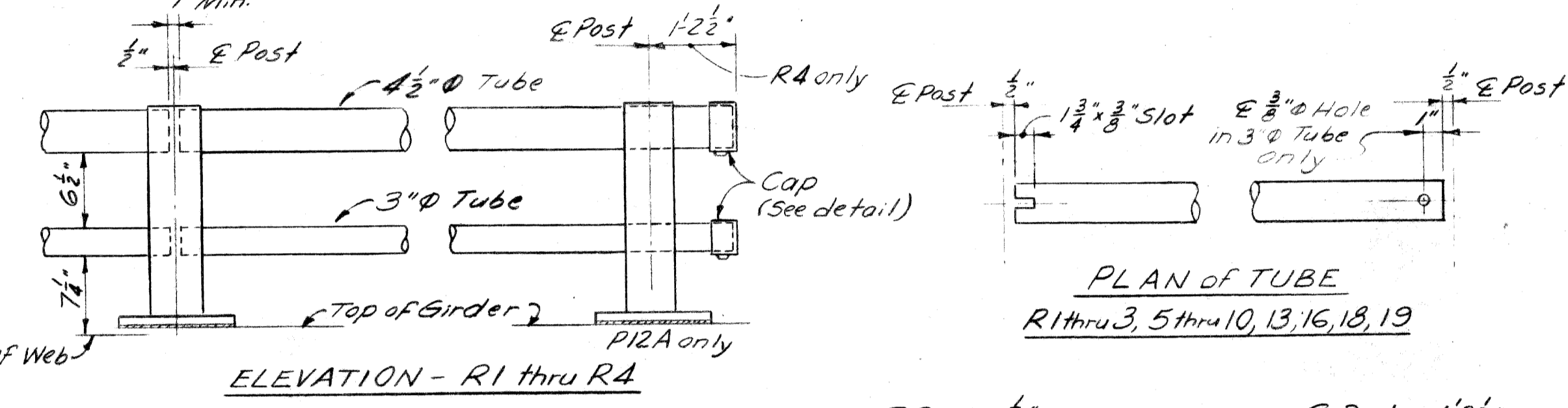
Bolts, Nuts and washers shall be steel galvanized in accordance with ASTM A153 and are incidental to the pay quantity.

Galvanizing shall be done after fabrication.

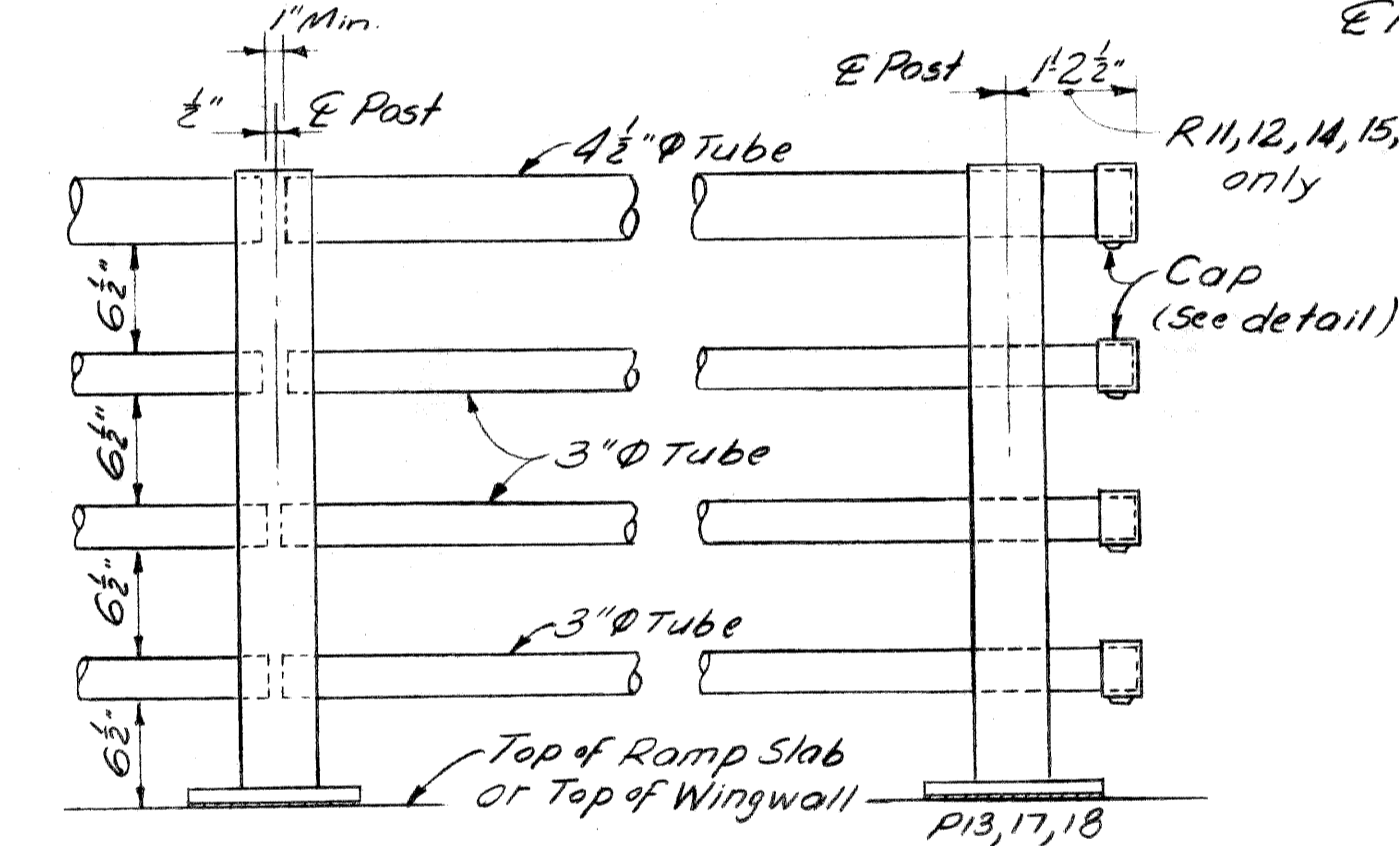
Dimensions are horizontal along E railing.

Pay length is measured out to out of metal with no deduction for expansion openings.

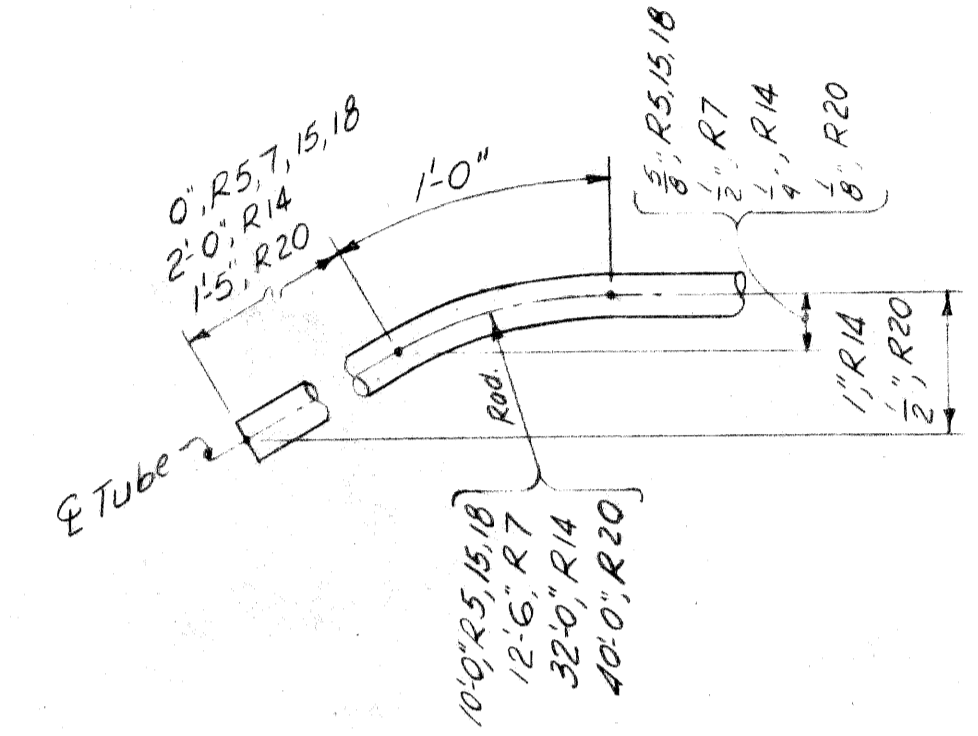
Tube diameters are O.D. and wall thickness shall be  $\frac{3}{16}$ " for all tubes.



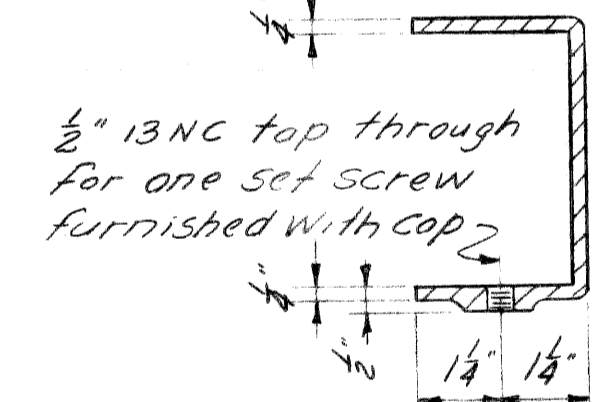
PLAN of TUBE  
R1 thru 3, 5 thru 10, 13, 16, 18, 19



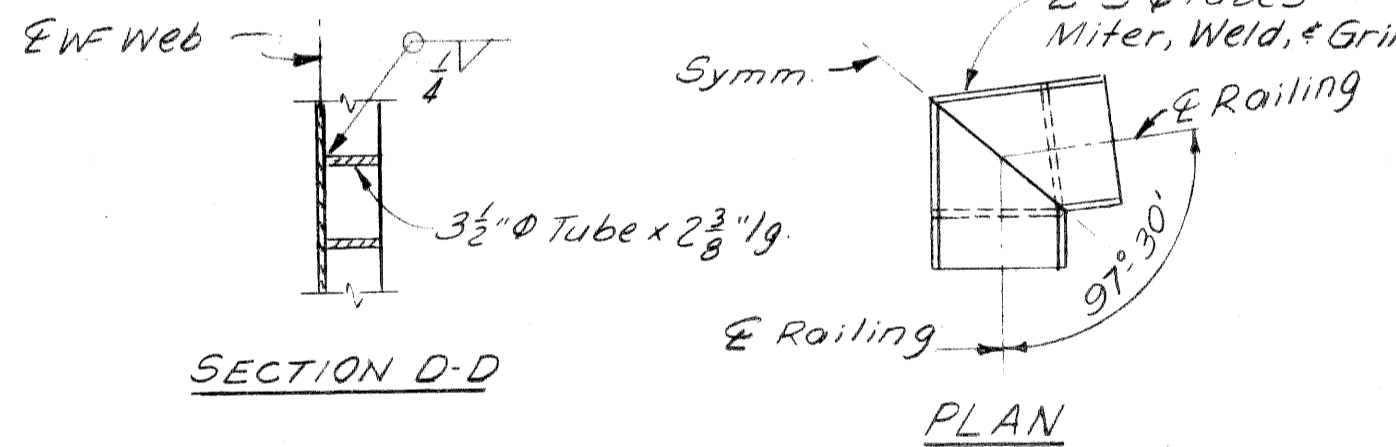
PLAN of TUBE  
R4, 11, 12, 14, 15, 17, 20



VERTICAL BENDING DIAGRAM  
R5, 7, 14, 15, 18, 20



CAP DETAIL

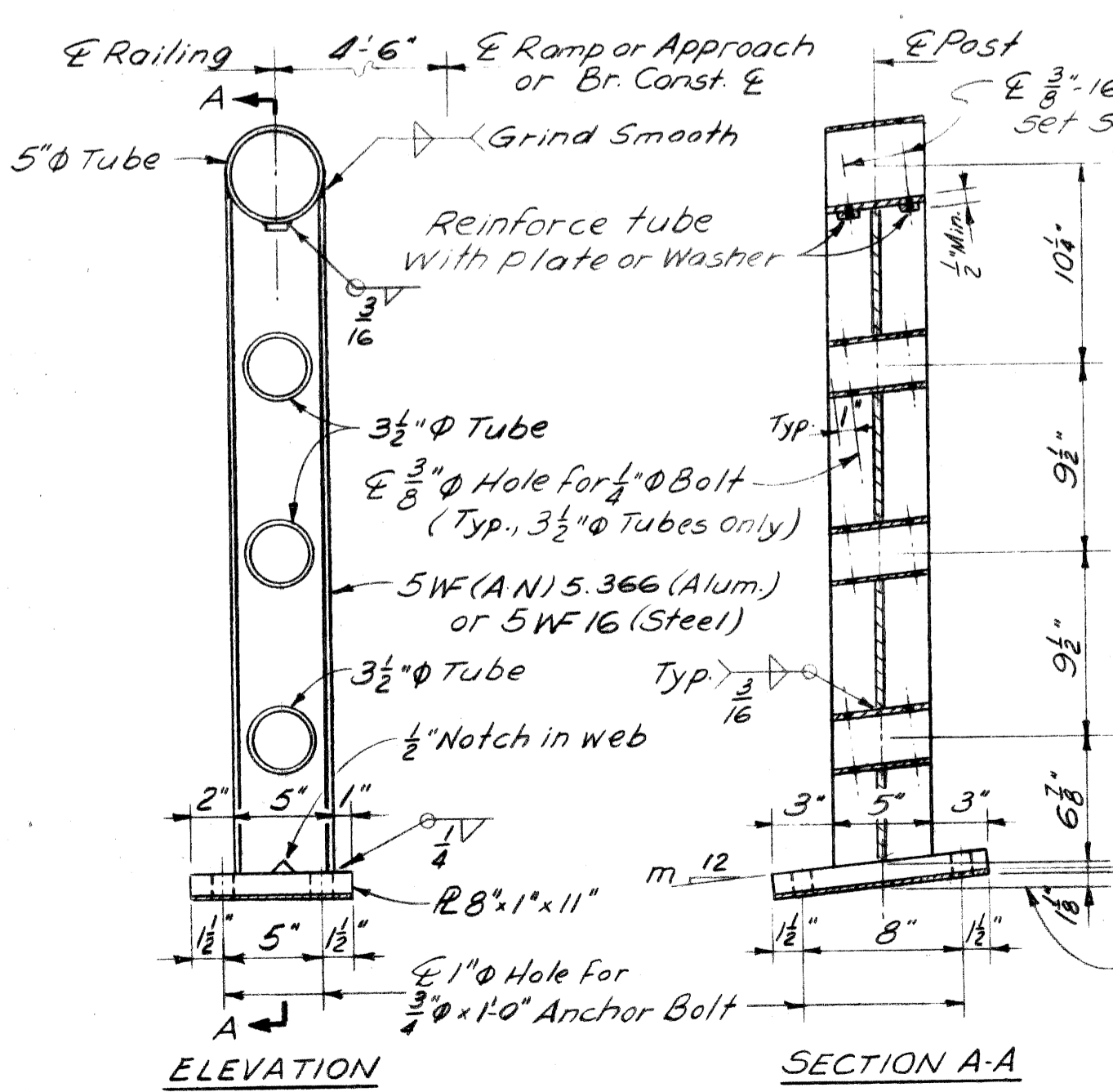


SECTION D-D

PLAN

**QUANTITIES**

Special Bridge Railing - Fabrication & Erection 2 Tube 440.3 Lin. Ft.  
Special Bridge Railing - Fabrication & Erection 4 Tube 358.2 Lin. Ft.

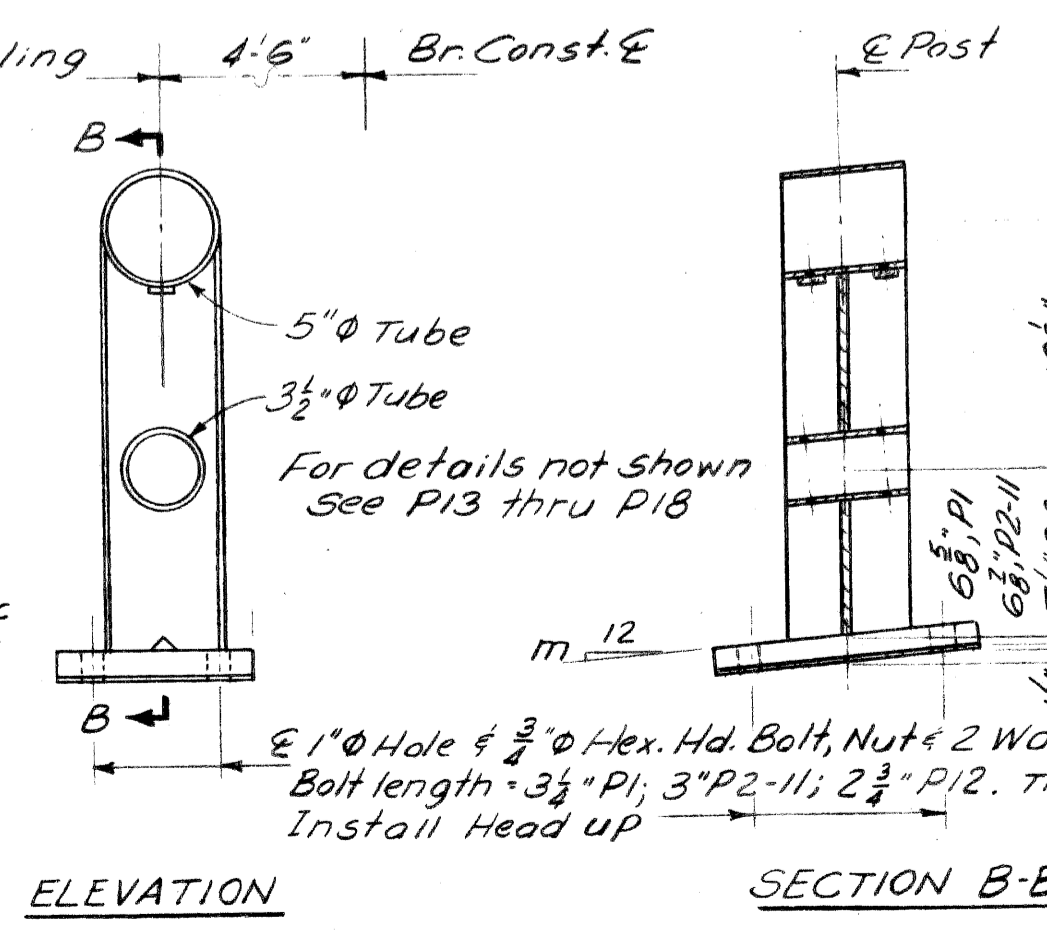


ELEVATION

SECTION A-A

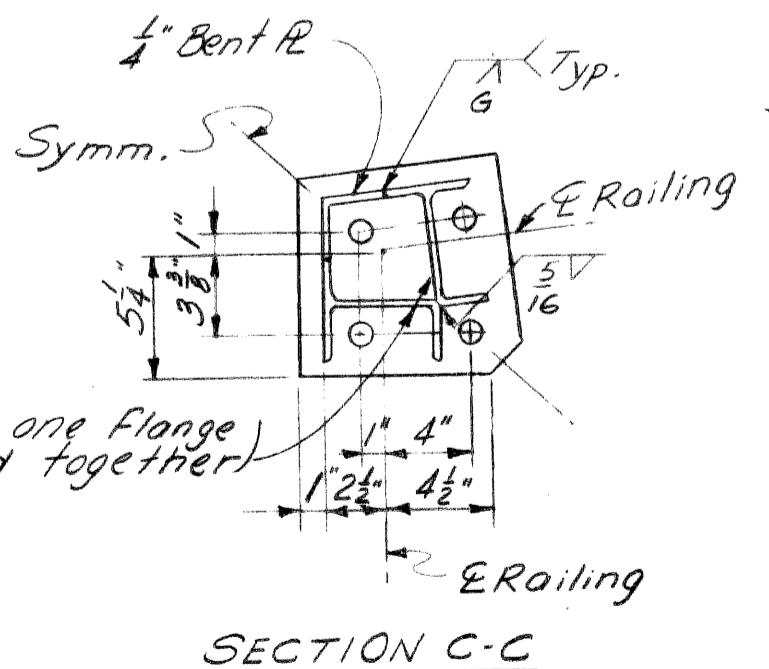
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M		1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	13/16	14/16	15/16	16/16	17/16	18/16

POST BEVEL DIMENSIONS

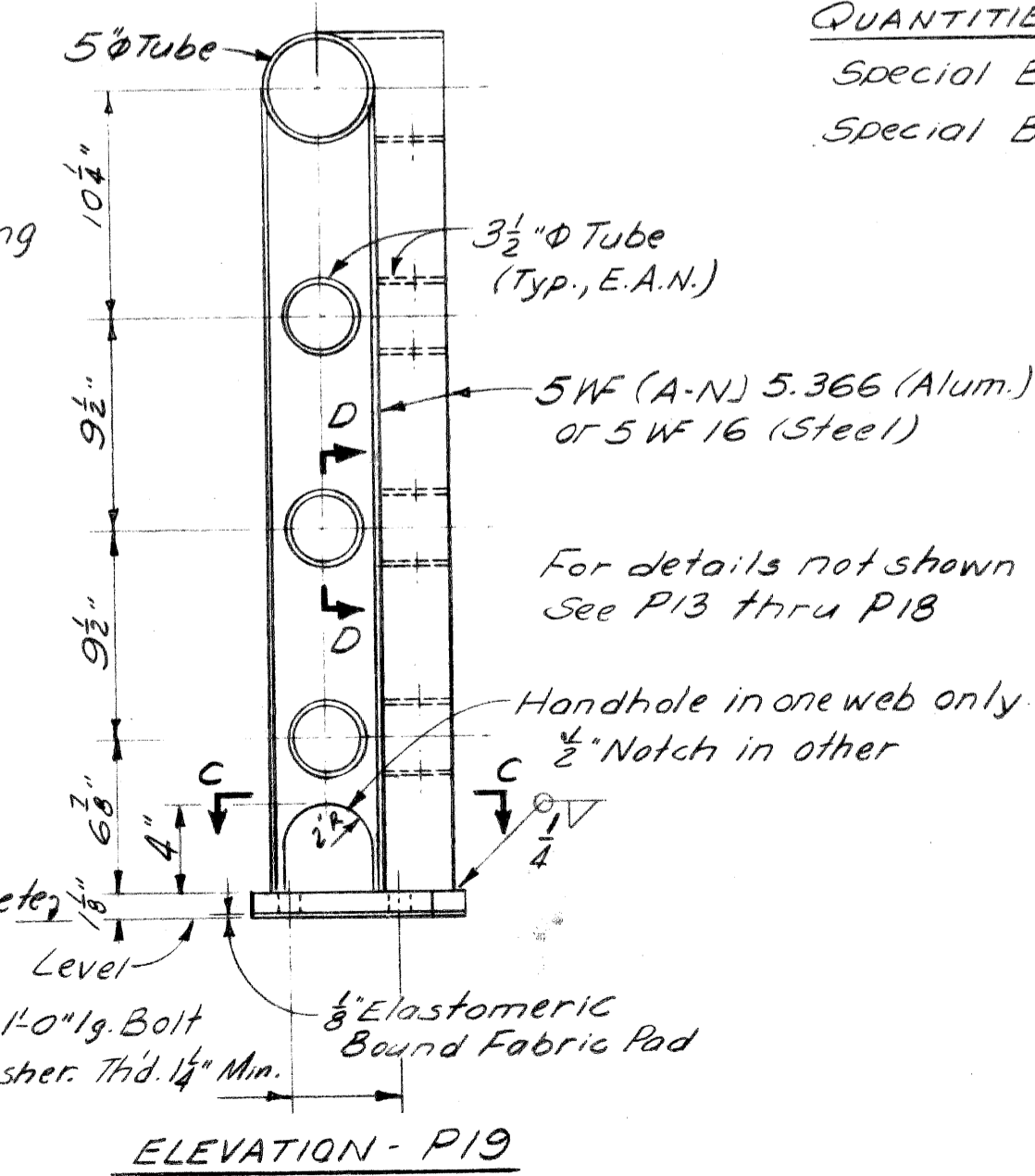


ELEVATION

SECTION B-B



SECTION C-C



ELEVATION - P19

PLANS PREPARED BY  
**CITY OF DETROIT**  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: *[Signature]*  
STRUCTURAL ENGINEER

JOB No. PW 990(1)

**MICHIGAN STATE HIGHWAY DEPARTMENT**

Selden Ave. Pedestrian Bridge  
Crossing the Jeffries Freeway in Detroit

**RAILING DETAILS**

REVISIONS

NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT

SQUAD BOSS	STUEM	5-67
DRAWN BY	I.N.S.	4-67
TRACED BY	-	-
CHECKED BY	K.V.H.	4-67
SHEET 13 OF 14		

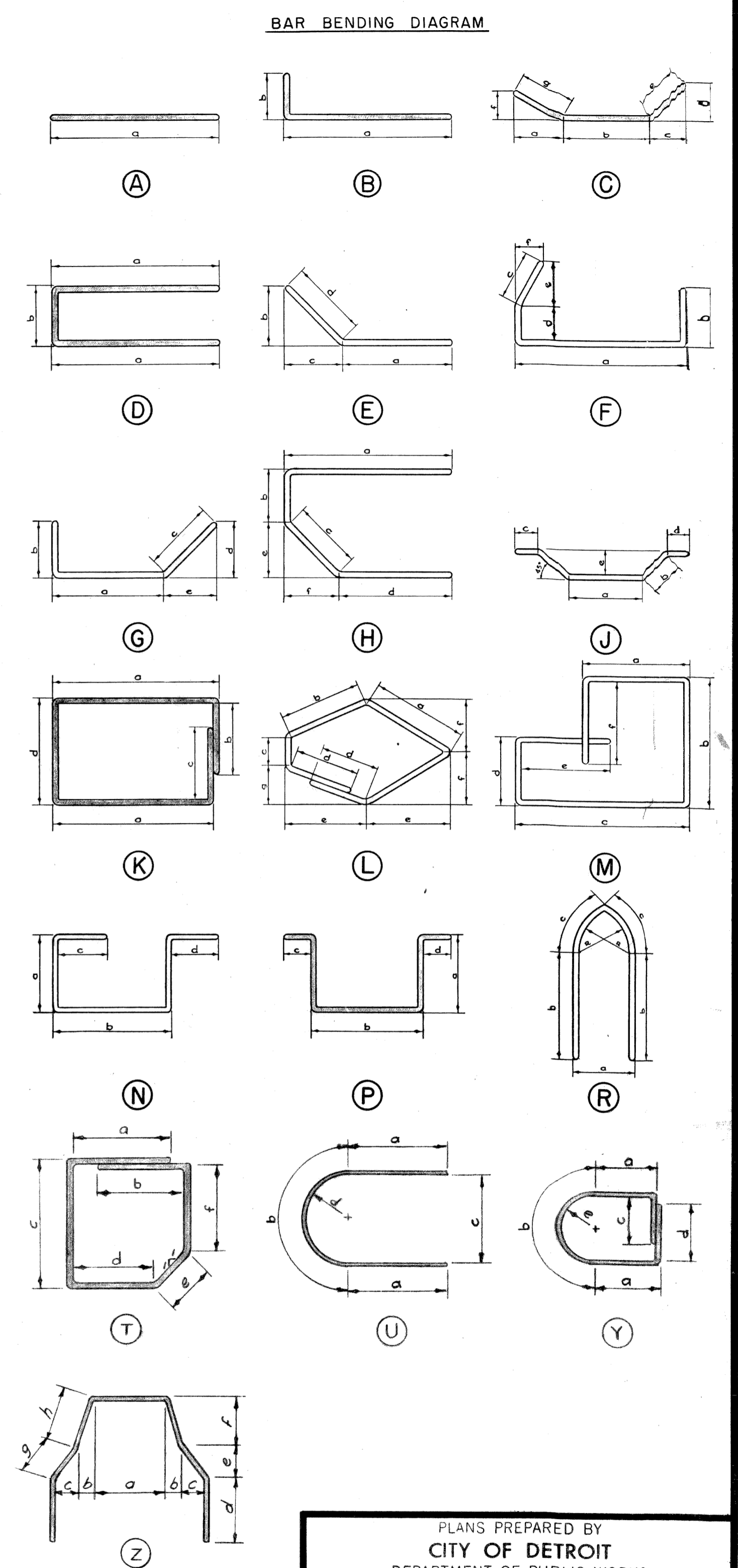
**POI of 82124 A**



BAR	DIMENSIONS							SIZE	LENGTH	NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g					
A1	14'-6"							#6	14'-6"	38	828	
A2	11'-6"							#6	11'-6"	11	190	
A3	10'-6"							#6	10'-6"	24	379	
A4	9'-9"							#6	9'-9"	29	425	
A5	4'-9"							#6	4'-9"	10	71	
A6	4'-0"							#6	4'-0"	17	192	
A7	11'-6"							#4	11'-6"	38	292	
A8	9'-6"							#4	9'-6"	24	152	
A9	7'-6"							#4	7'-6"	8	40	
A10	7'-0"							#4	7'-0"	4	19	
A11	1'-6"							#4	1'-6"	8	8	
A12	17'-0"							#6	17'-0"	11	281	
A13	15'-3"							#6	15'-3"	11	252	
A14	13'-9"							#6	13'-9"	18	372	
A15	6'-6"							#7	6'-6"	7	93	
A16	14'-0"							#6	14'-0"	36	757	
A17	9'-0"							#8	9'-0"	18	433	
A18	5'-6"							#8	5'-6"	18	264	
A19	15'-0"							#4	15'-0"	32	321	
A20	13'-0"							#4	13'-0"	8	69	
C1	10 1/8"	2'-9"	10 3/8"	10 3/8"	1'-3"	10 3/8"	1'-3"	#6	5'-3"	28	221	
D1	1'-0"	1'-7"						#4	3'-6"	18	42	
D2	2'-3 1/2"	4 1/2"						#4	5'-3"	18	63	
D3	1'-10 1/2"	10"						#4	4'-6"	12	36	
D4	2'-4 1/2"	10"						#4	5'-6"	18	66	
T1	7"	7"	10 1/2"	3 1/2"	5 1/2"	5 1/2"		#4	3'-3"	10	22	
										Total-Abutments		5,798

BAR	DIMENSIONS							SIZE	LENGTH	NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g					
A100	20'-3"							#10	20'-3"	16	1,394	
A101	20'-6"							#10	20'-6"	7	617	
A102	10'-9"							#9	10'-9"	6	219	
A103	8'-9"							#9	8'-9"	4	119	
A104	8'-0"							#9	8'-0"	20	544	
A105	10'-6"							#8	10'-6"	16	449	
A106	20'-6"							#6	20'-6"	12	369	
A107	8'-9"							#5	8'-9"	2	18	
A108	2'-0"							#4	2'-0"	6	8	
A109	4'-6"							#4	4'-6"	24	72	
A110	18'-3"							#6	18'-3"	7	192	
B100	2'-6"	9 3/4"						#6	3'-3"	4	20	
C100	3'-7 1/2"	3'-6"	3'-7 1/2"	5 1/2"	3'-7 1/2"	5 1/2"	3'-7 1/2"	#6	10'-9"	3	48	
C101	2'-7 1/2"	3'-6"	2'-7 1/2"	4"	2'-7 1/2"	4"	2'-7 1/2"	#6	8'-9"	2	26	
K100	2'-7 1/2"	1'-5 1/2"	1'-5 1/2"	1'-9 1/2"				#4	9'-11"	4	27	
K101	2'-6 1/2"	1'-5 1/2"	1'-5 1/2"	1'-9 1/2"				#4	9'-9"	4	26	
K102	2'-5 1/2"	1'-5 1/2"	1'-5 1/2"	1'-9 1/2"				#4	9'-7"	4	26	
K103	2'-4 1/2"	1'-5 1/2"	1'-5 1/2"	1'-9 1/2"				#4	9'-5"	4	25	
K104	2'-3 1/2"	1'-5 1/2"	1'-5 1/2"	1'-9 1/2"				#4	9'-3"	4	25	
U100	1'-7"	3'-5"	2'-1 1/2"	1'-0 1/2"				#5	6'-7"	8	55	
Y100	1'-1 1/2"	3'-4 1/2"	1'-5 1/2"	1'-5 1/2"	1'-0 1/2"			#4	8'-6"	24	136	
Z100	2'-4 1/2"	3"	9"	2'-8 1/2"	1'-1"	1'-1 1/2"	1'-2 1/2"	#4	12'-9"	10	85	
										Total - Pier		4500

BAR	DIMENSIONS							SIZE	LENGTH	NO. REQ'D	TOTAL WT.	
	a	b	c	d	e	f	g					
A201	3'-6"							#4	3'-6"	440	2,498	
A202	2'-3"							#4	2'-3"	8	12	
A203	38'-0"							#4	38'-0"	192	4,874	
A204	1'-3"							#4	1'-3"	32	27	
A205	3'-0"							#4	3'-0"	280	561	
D201	1'-1 1/2"	4'-7 1/2"						#4	6'-9"	6	27	
P201	1'-0"	1'-7 1/2"	11 1/2"	11 1/2"				#4	5'-6"	20	73	
										Total-Superstructure		8,072



Note:—  
 All right angle bends in Reinforcing Steel to be made about a pin of the minimum diameter allowed by the Standard Specifications. Grand Total Steel Reinforcement 18,370 Lbs.  
 All bar numbers shown on this sheet to be prefixed P01.  
 Steel for reinforcement shall be intermediate or hard grade only.

PLANS PREPARED BY  
**CITY OF DETROIT**  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERS OFFICE  
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: *[Signature]* STRUCTURAL ENGINEER  
 JOB No. PW 990(1)

**MICHIGAN STATE HIGHWAY DEPARTMENT**  
 SELDEN AVE. PEDESTRIAN BRIDGE  
 CROSSING THE JEFFRIES FREEWAY IN DETROIT  
**STEEL REINFORCEMENT DETAILS**

NO. DESCRIPTION DATE BY

SHEET 14 OF 14  
 POI of 82124 A