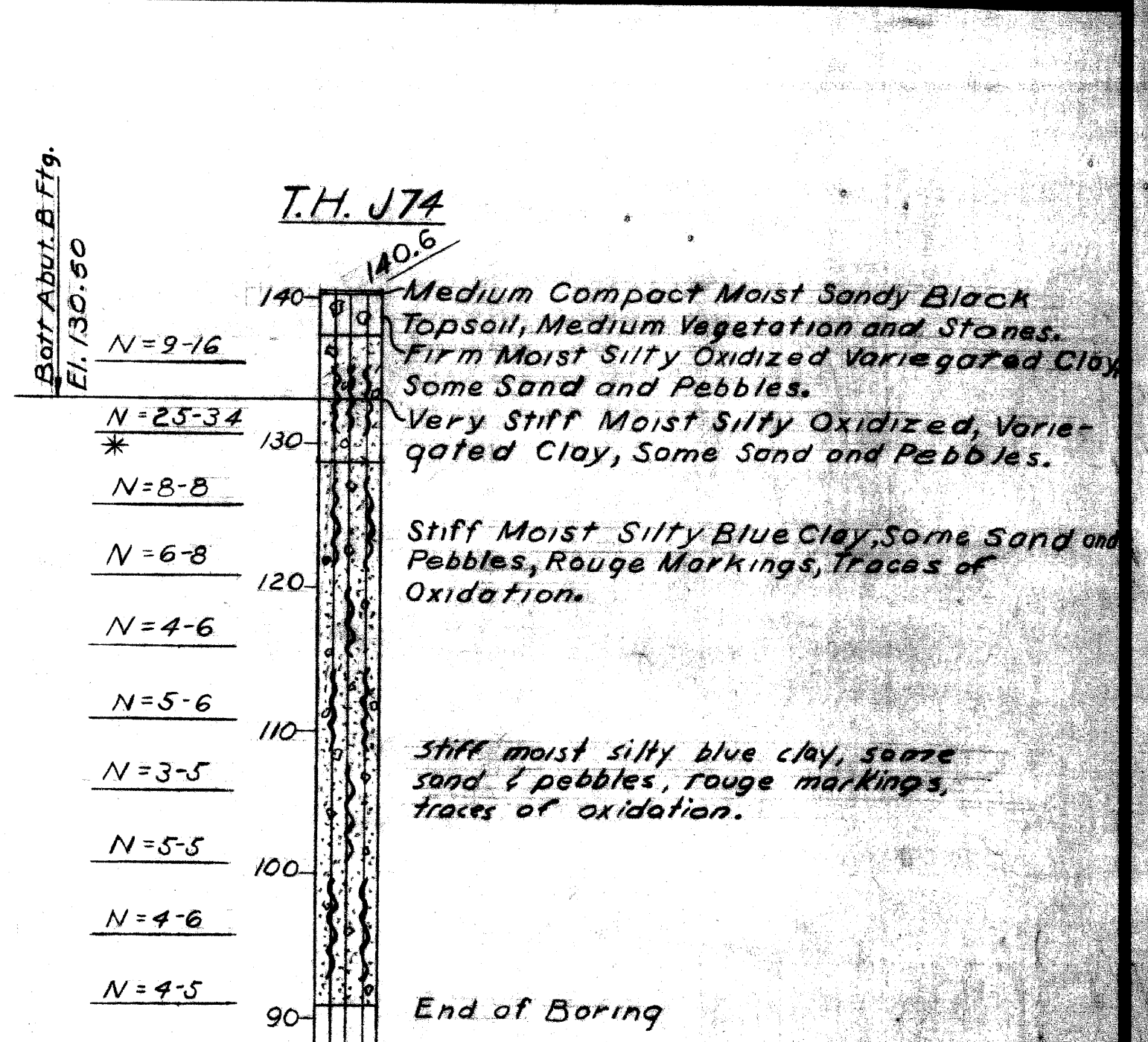
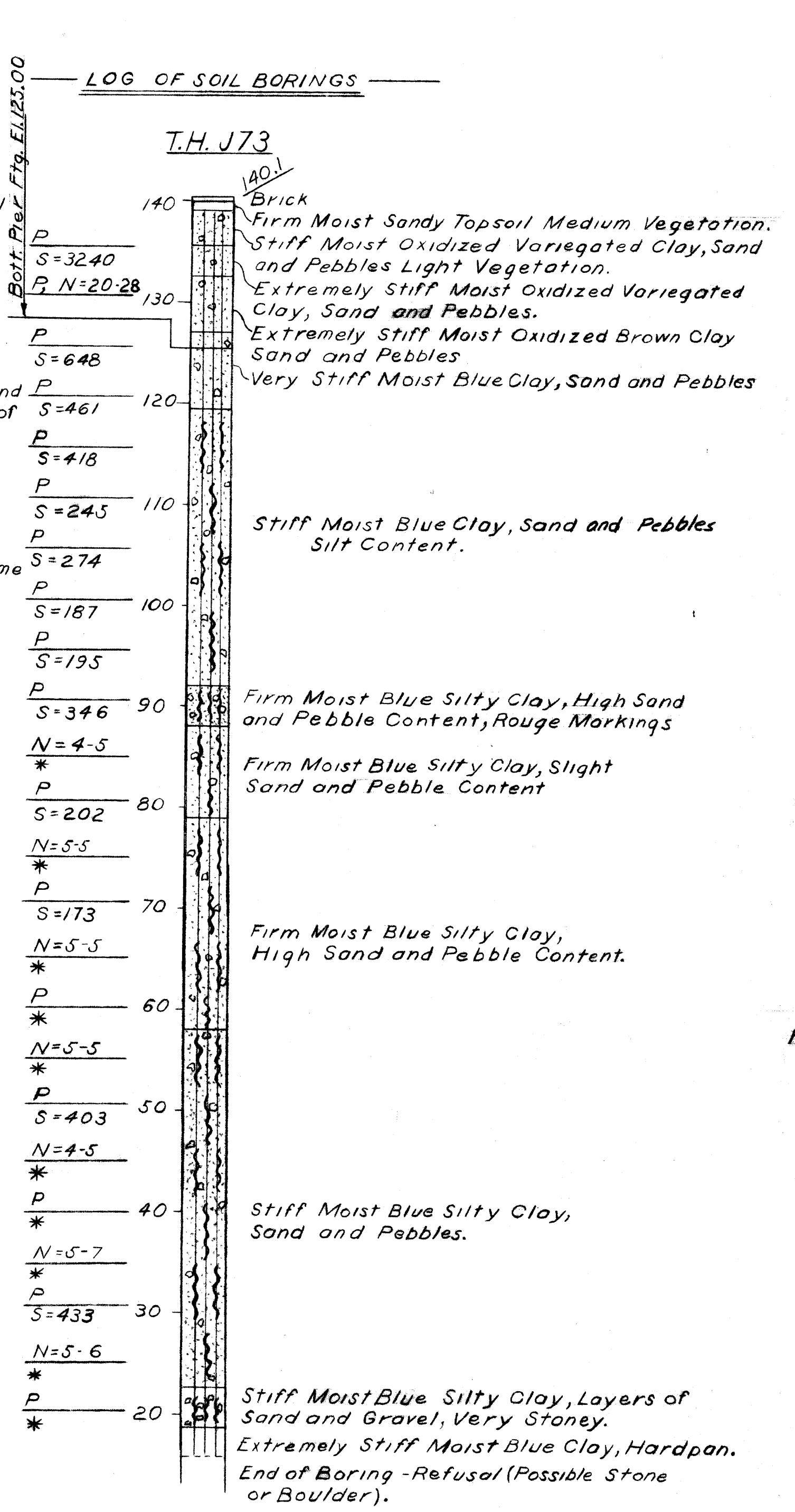
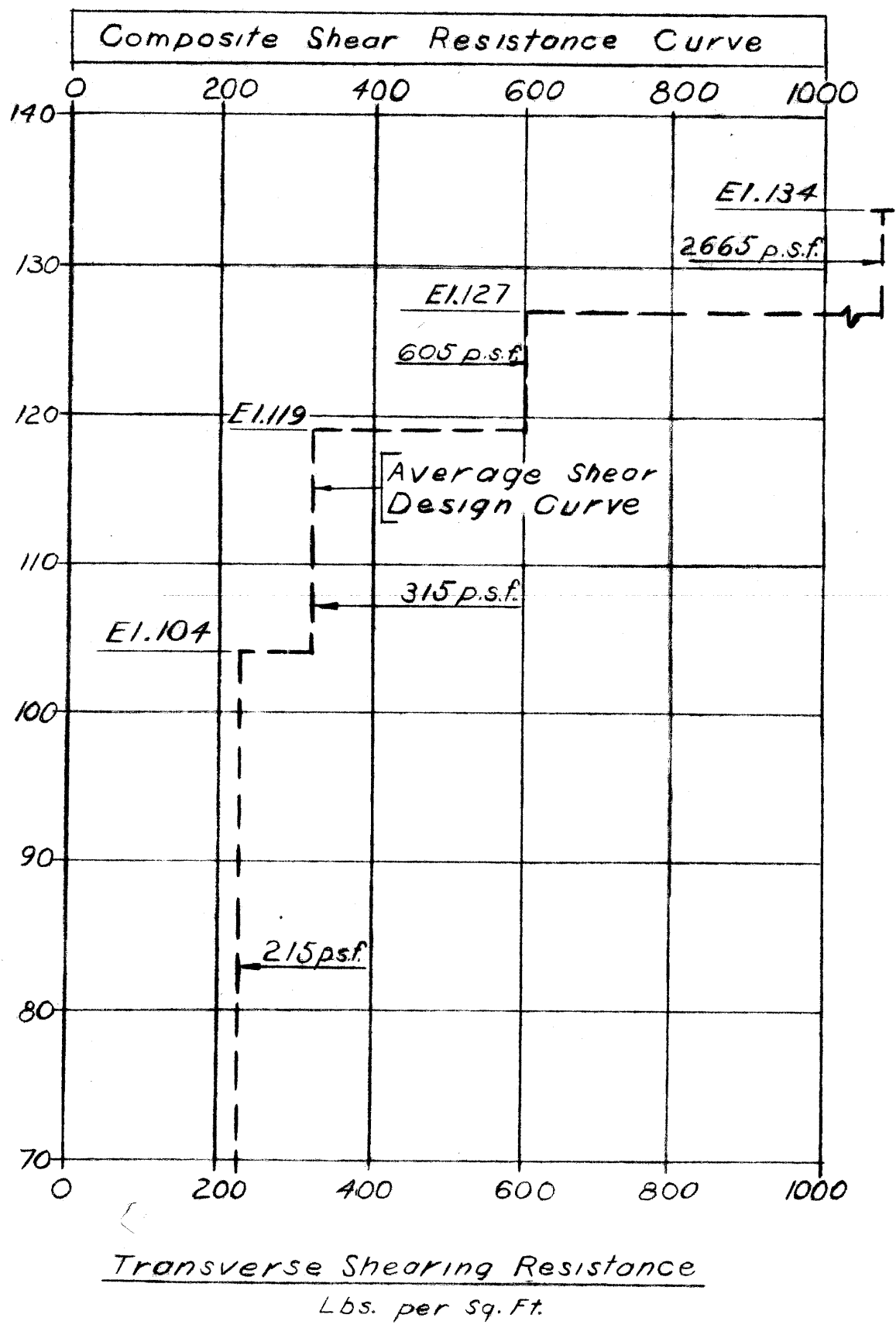
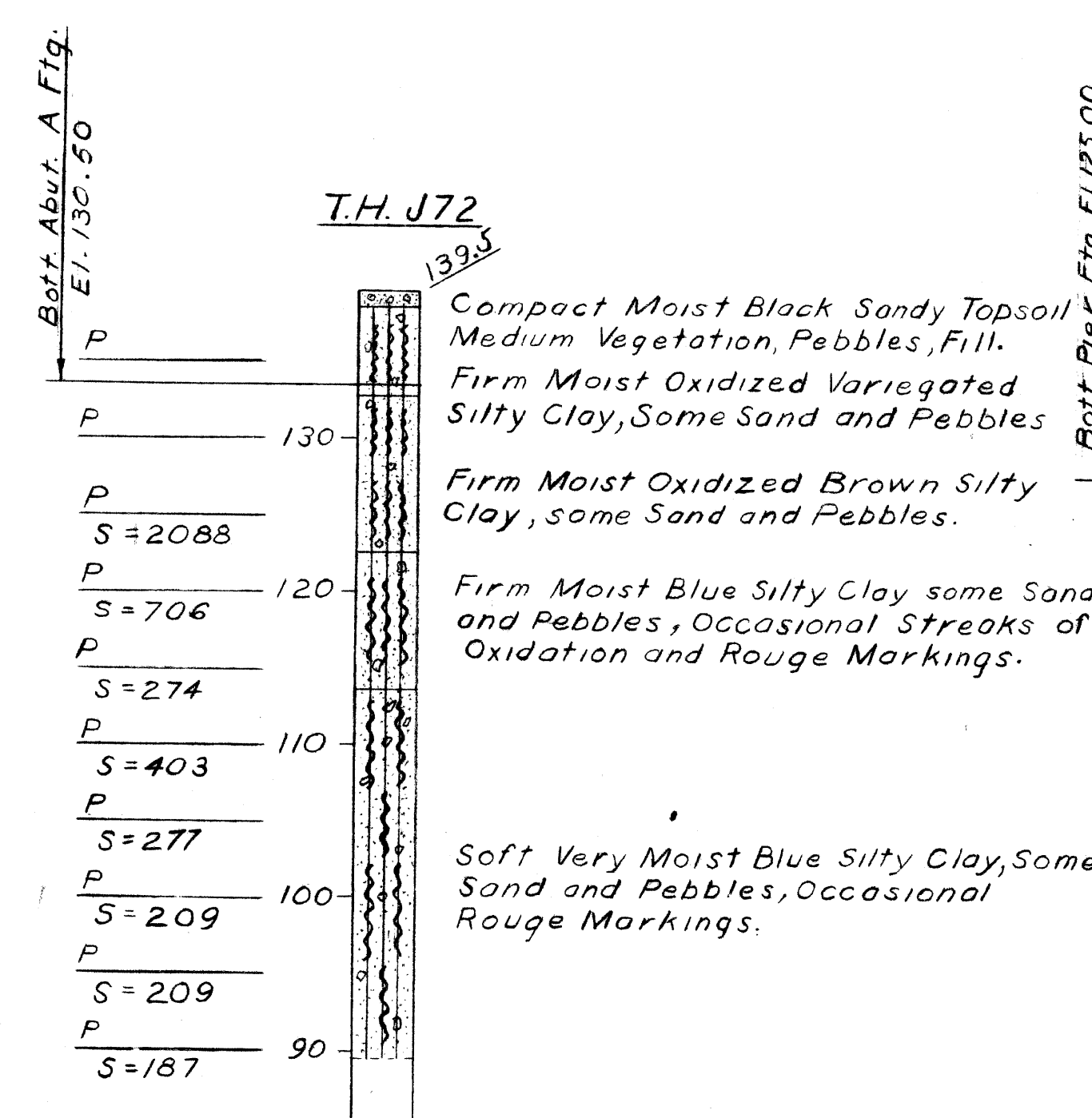
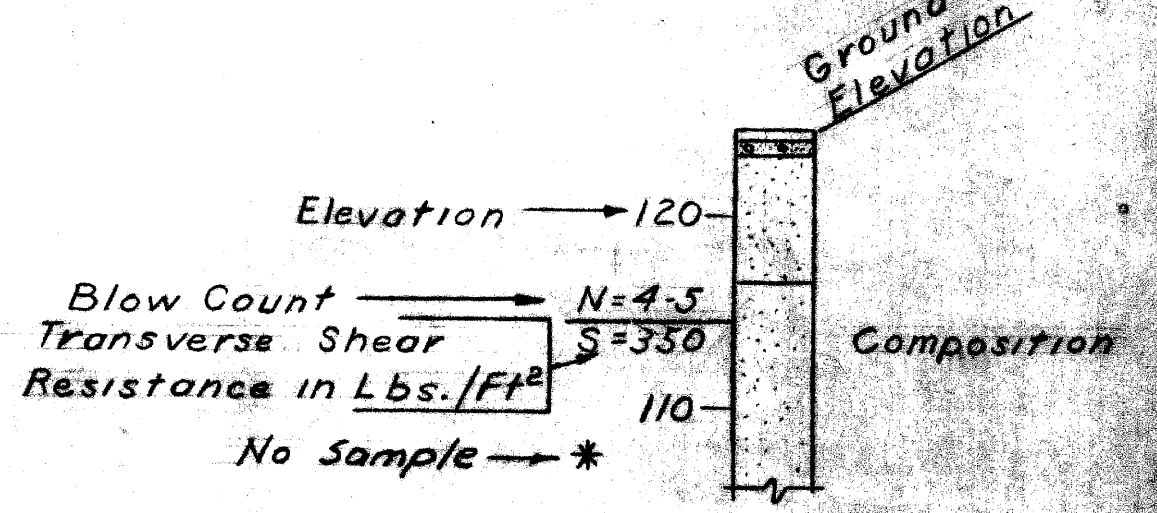


UTILITY LEGEND

- Sewer Inlet or Catchbasin
- Sewer Manhole
- P.L.C. Manhole
- M.B.T. Manhole
- D.E. Manhole
- Water Gate Well and Valve
- Fire Hydrant
- Detroit Edison Co. Pole
- Test Hole For Soil Profile
- D.F.D. Alarm Box
- Tree (Size)
- Fence



LEGEND



NOTES:
Blow Count - Indicates number of blows required to drive a sampler 6" (unless otherwise noted) using a 140# hammer falling 30".
P - Indicates sampler was pushed.
S - Indicates Transverse Shear Resistance in lbs./sq. ft. as determined by M.S.T.D. Standard Test.

GENERAL NOTES:
The work covered by these plans includes construction of the proposed bridge and placing slope protection to the limits shown. All other work is included in the Road Plans which are part of this contract.
Removal of fences and buildings is not part of this contract.
The contractor shall locate all active underground utilities prior to starting work, and shall conduct his operation in such a manner as to insure that those utilities not requiring relocation will not be disturbed.
Topography shown hereon represents conditions existing at the time the field survey was made. However, these conditions may have been materially altered by the operations of others before the work has been started.
Unsuitable material under Abutments A & B shall be removed and backfilled with Granular Material Class III compacted to 100% of its maximum unit weight.

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

APPROVED: *H. Cant*
STRUCTURAL ENGINEER

JOB No.
PW 990(3)

NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

Roosevelt Ave. Pedestrian Bridge
Crossing the Jeffries Freeway in Detroit

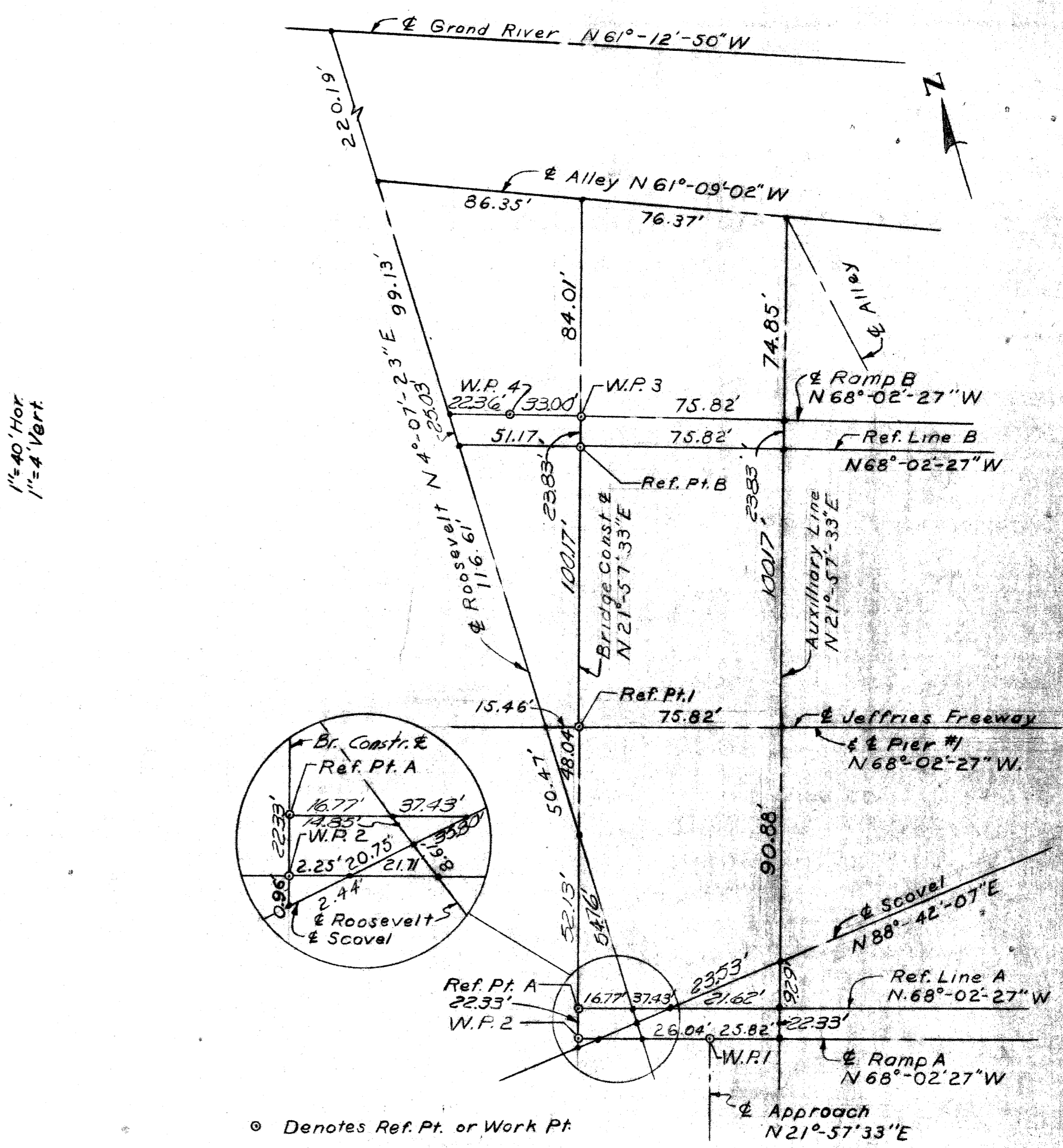
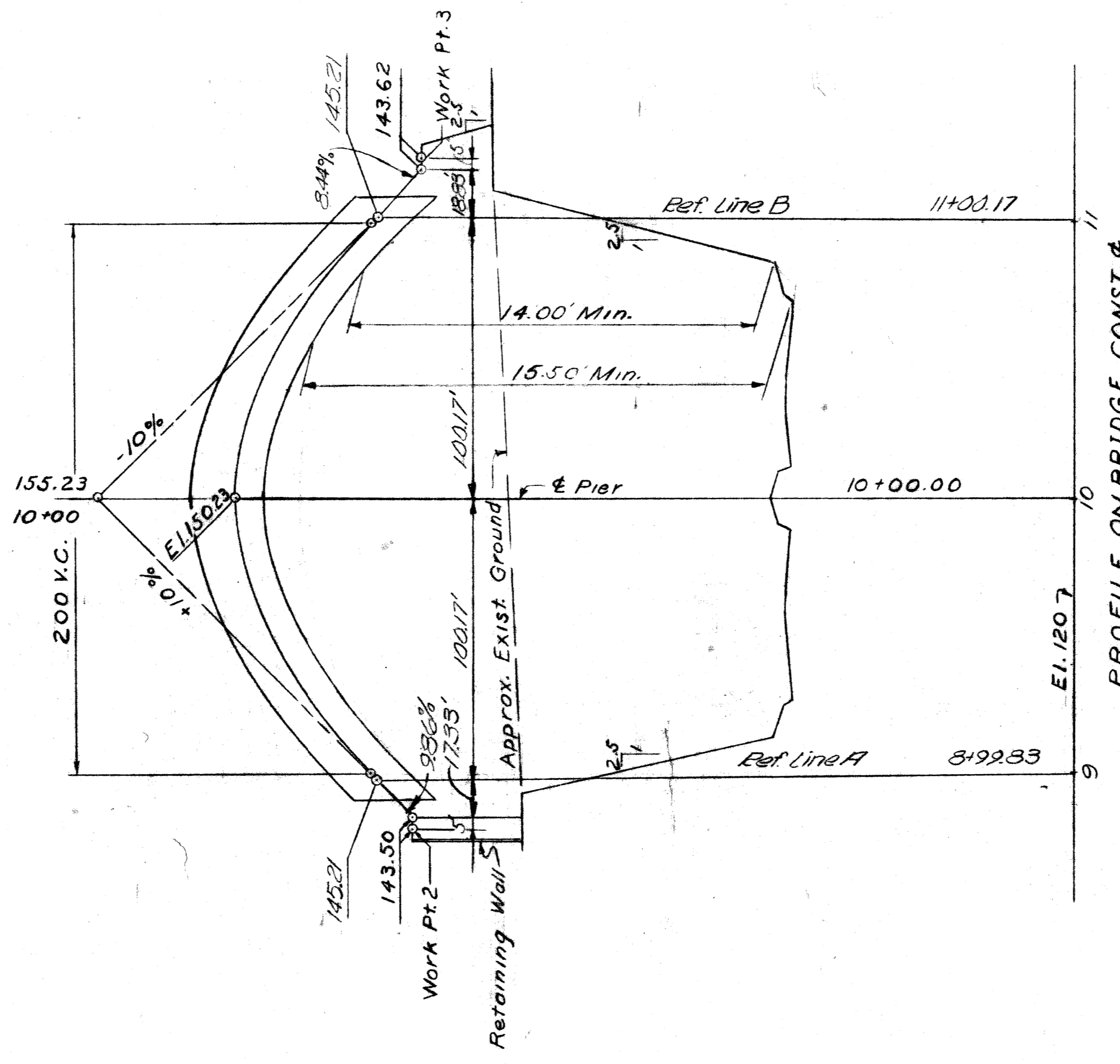
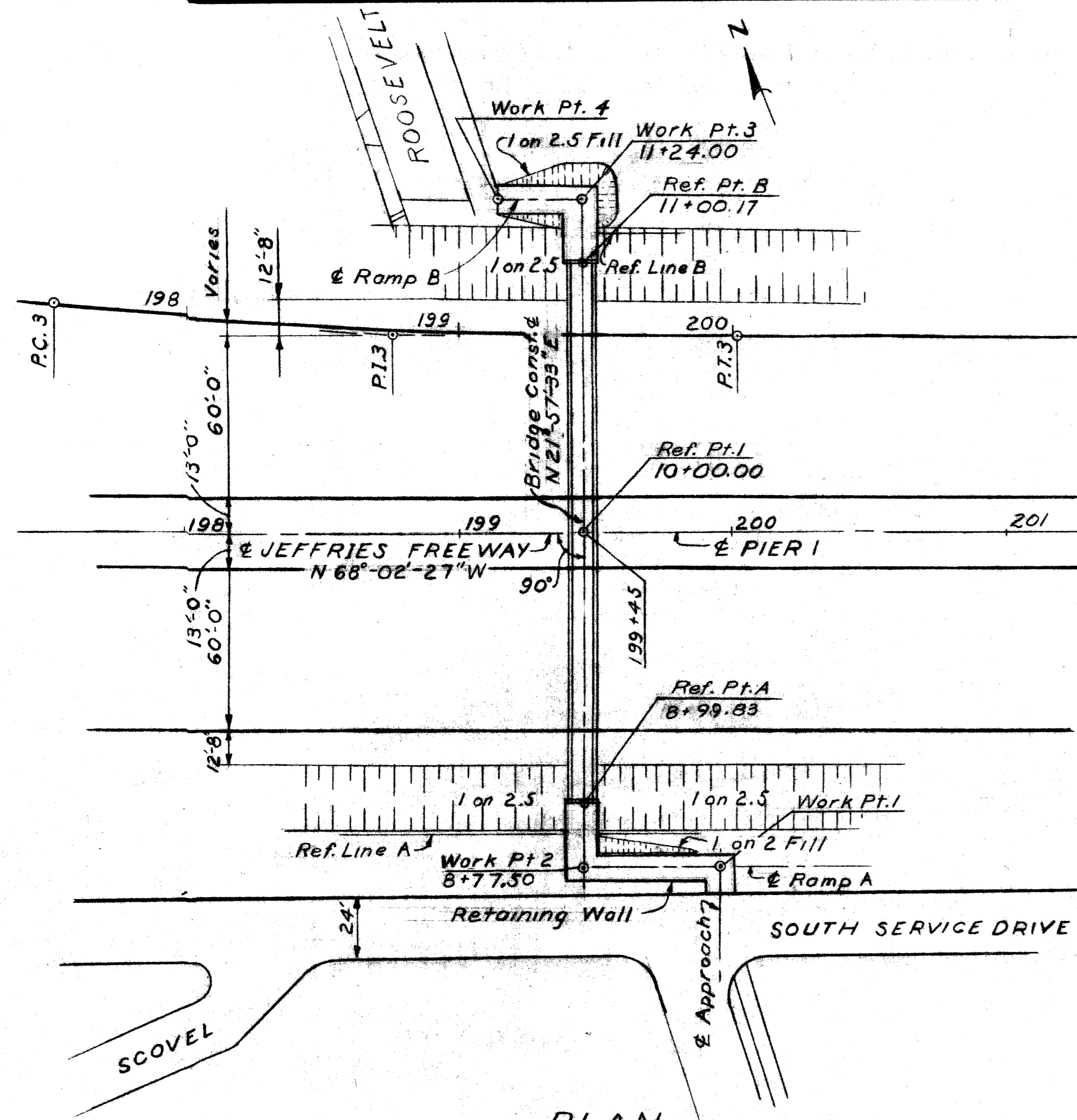
GENERAL PLAN OF SITE

APPROVED: _____
DESIGN SUPERVISING ENGINEER

APPROVED: _____
DESIGN ENGINEER

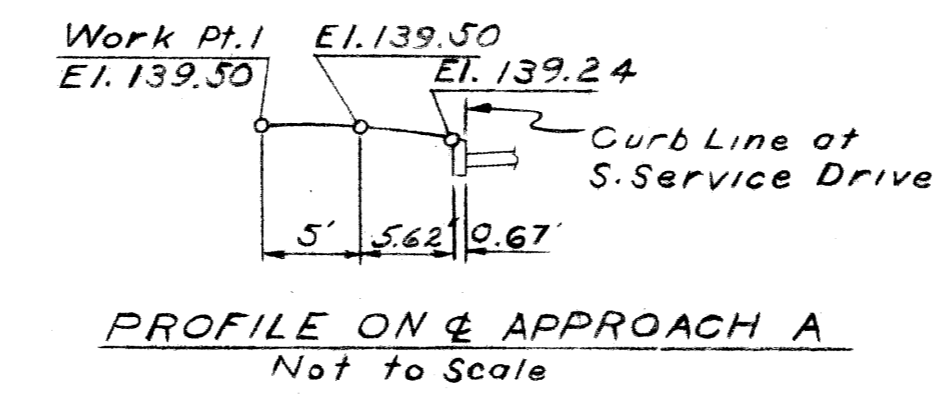
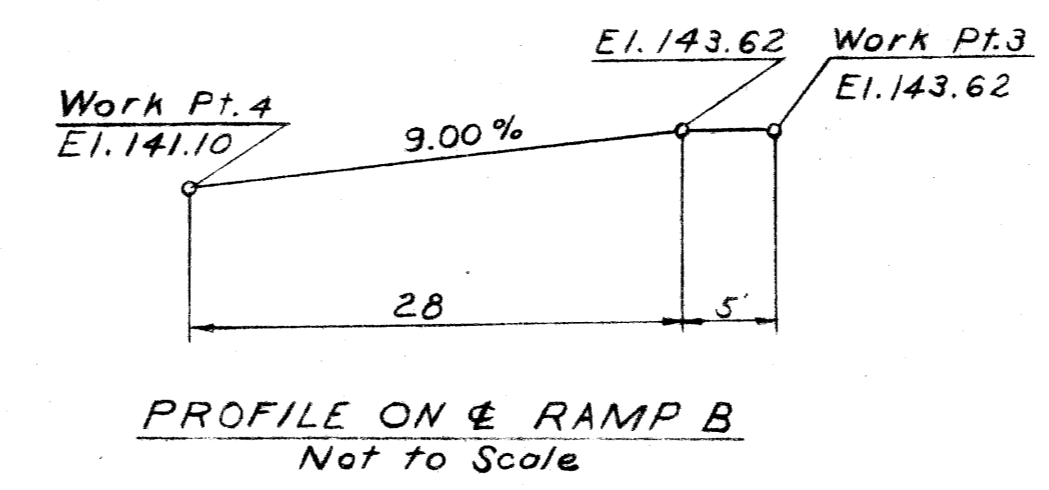
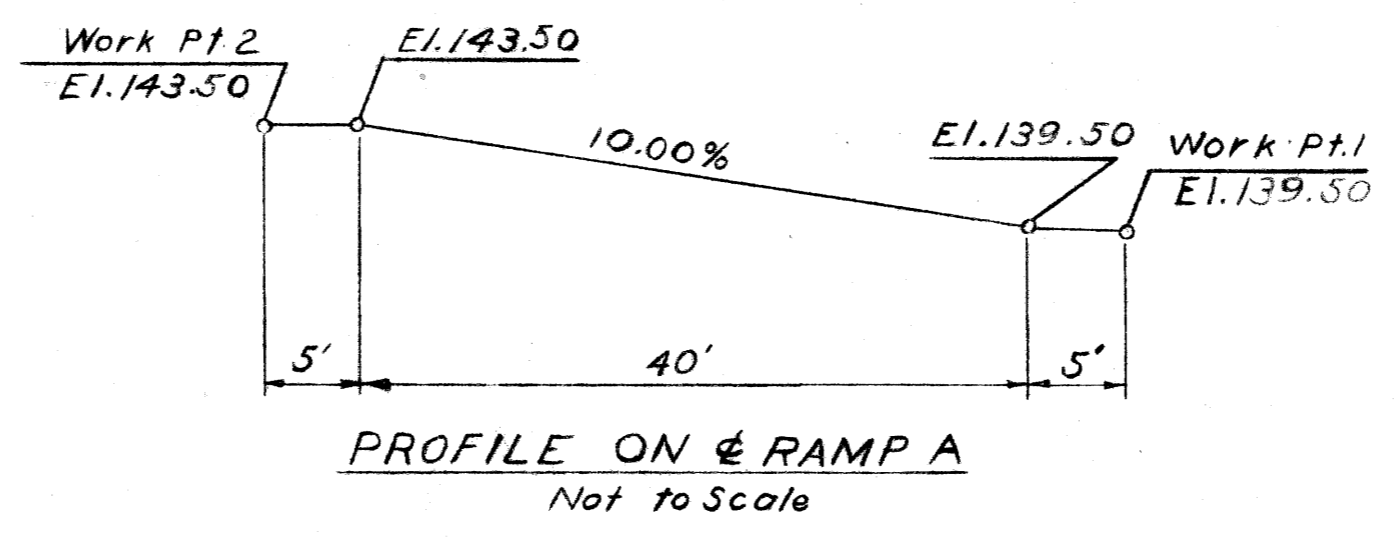
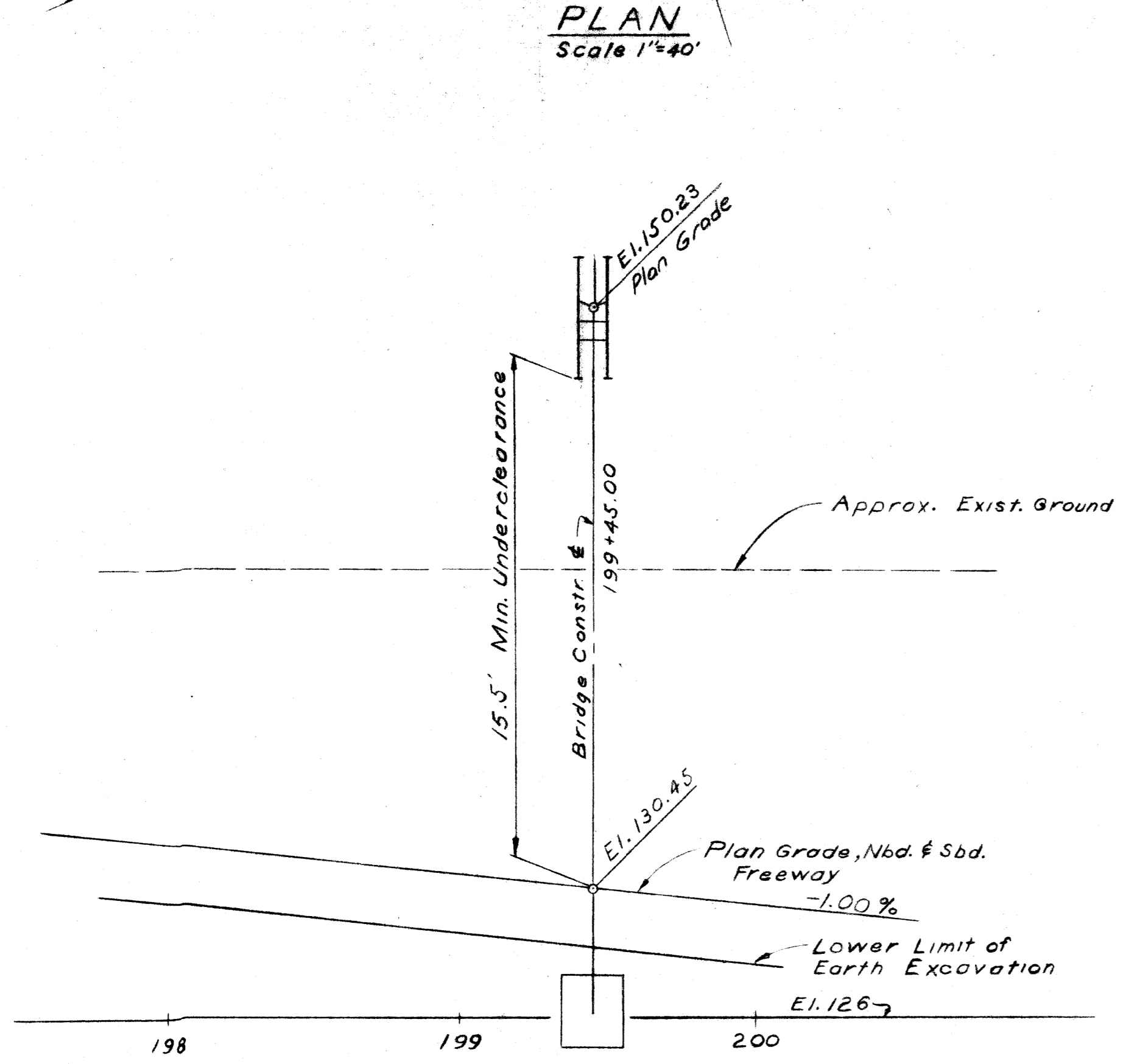
NO.	DESCRIPTION	DATE	BY

P06 of 82123J



- Denotes Ref. Pt. or Work Pt.
- Denotes intersection

Construction Bench Marks:
 C.B.M. 70 El. 141.18 Arrow on Hydrant N.E. Corner Eastern and Roosevelt.
 C.B.M. 71 El. 144.94 Arrow on Hydrant N.W. Corner Roosevelt and Grand River.
 C.B.M. 72 El. 143.21 Arrow on Hydrant N.W. Corner Scovel and Taft.
 Elevations refer to City of Detroit Datum, 479.755 Feet above sea level.



Note:
For Approach B Details
See Road Plans

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

APPROVED: *J. Corud*
 STRUCTURAL ENGINEER

JOB No.
 PW 990(3)

NO.	DESCRIPTION	DATE	BY

MICHIGAN STATE HIGHWAY DEPARTMENT

Roosevelt Ave. Pedestrian Bridge
 Crossing the Jeffries Freeway in Detroit

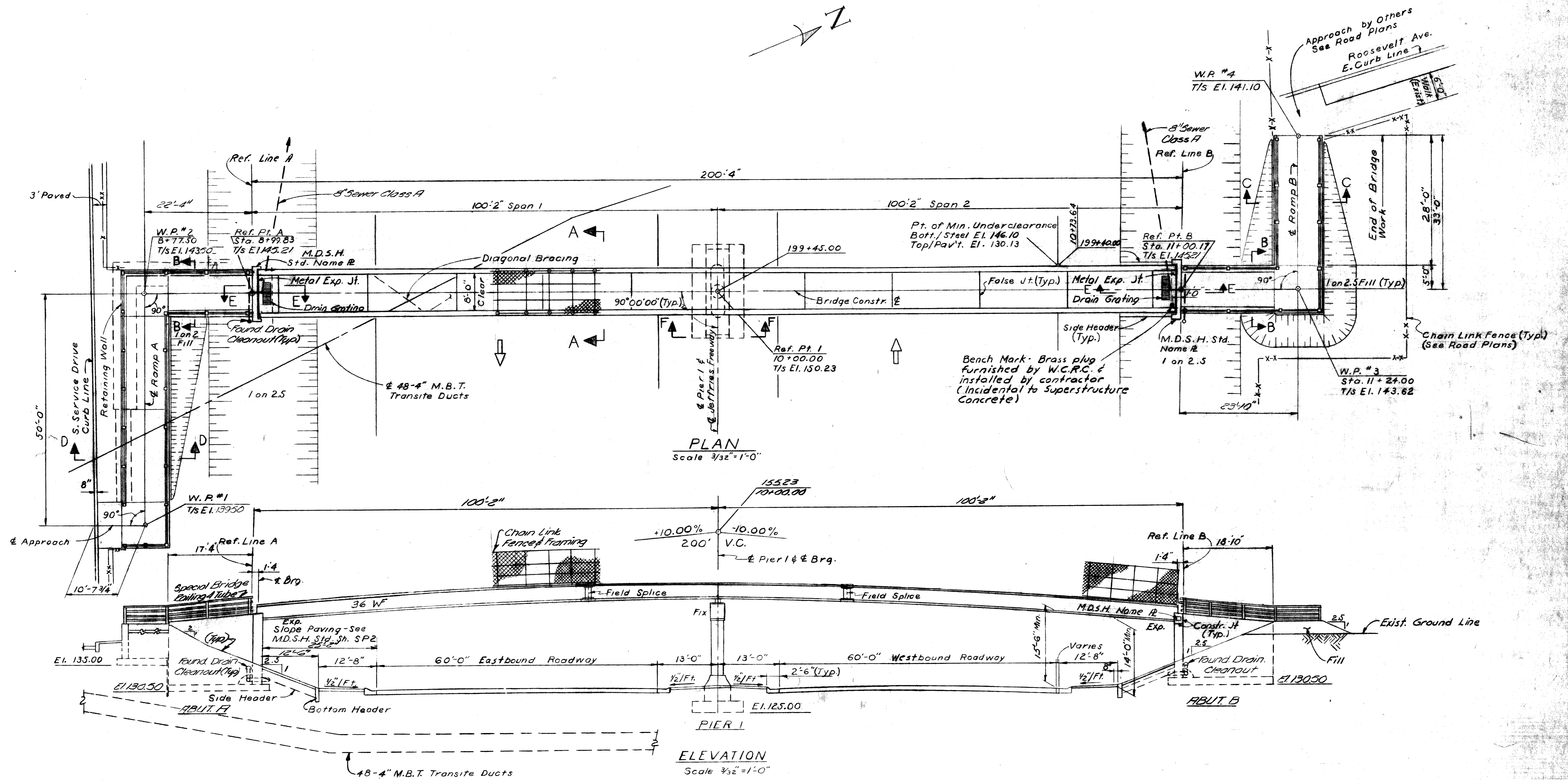
GENERAL DRAWING

APPROVED: _____
 DESIGN SUPERVISING ENGINEER

APPROVED: _____
 DESIGN ENGINEER

SQUAD BOSS		2-68
DRAWN BY	SPW990(3)	2-68
TRACED BY		
CHECKED BY	J.A.B.	4-68
SHEET	3	of 16

P06 of 82123J



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

APPROVED: *H. Pent*
 STRUCTURAL ENGINEER

JOB No.
 PW 990(3)

NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

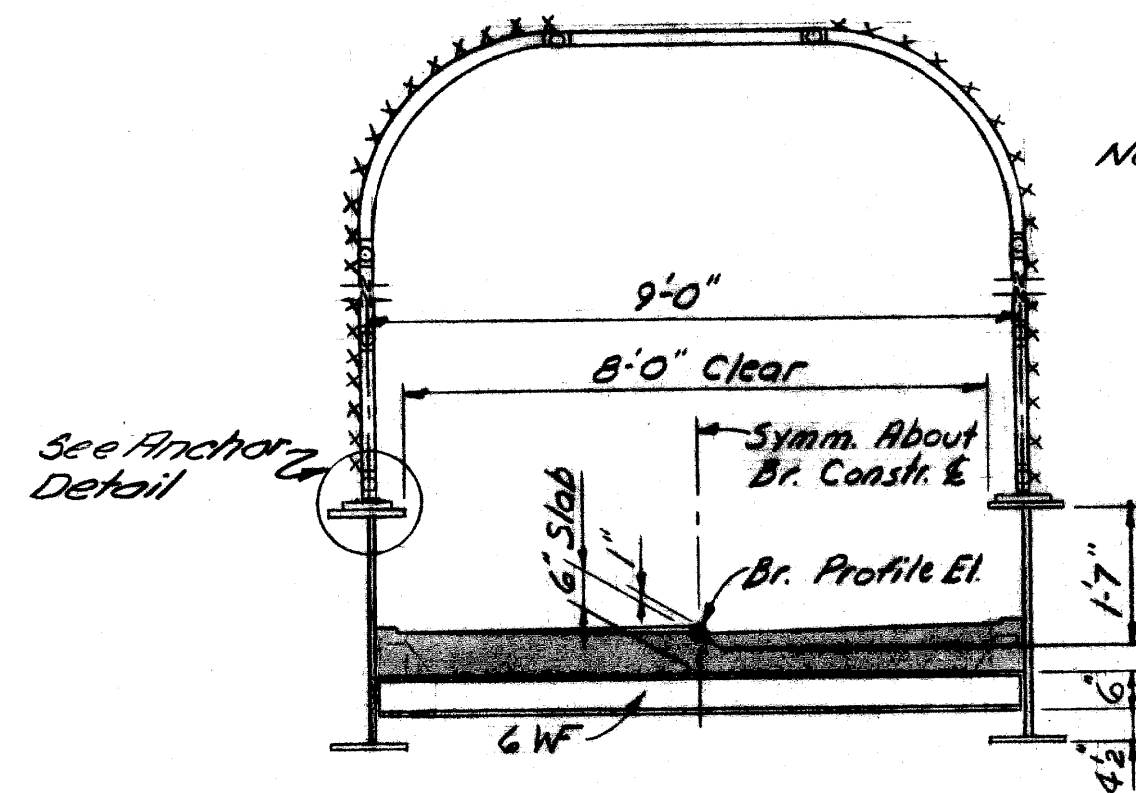
**ROOSEVELT AVE PEDESTRIAN BRIDGE
 CROSSING THE JEFFRIES FREEWAY IN DETROIT
 GENERAL PLAN OF STRUCTURE**

APPROVED: _____
 DESIGN SUPERVISING ENGINEER

APPROVED: _____
 DESIGN ENGINEER

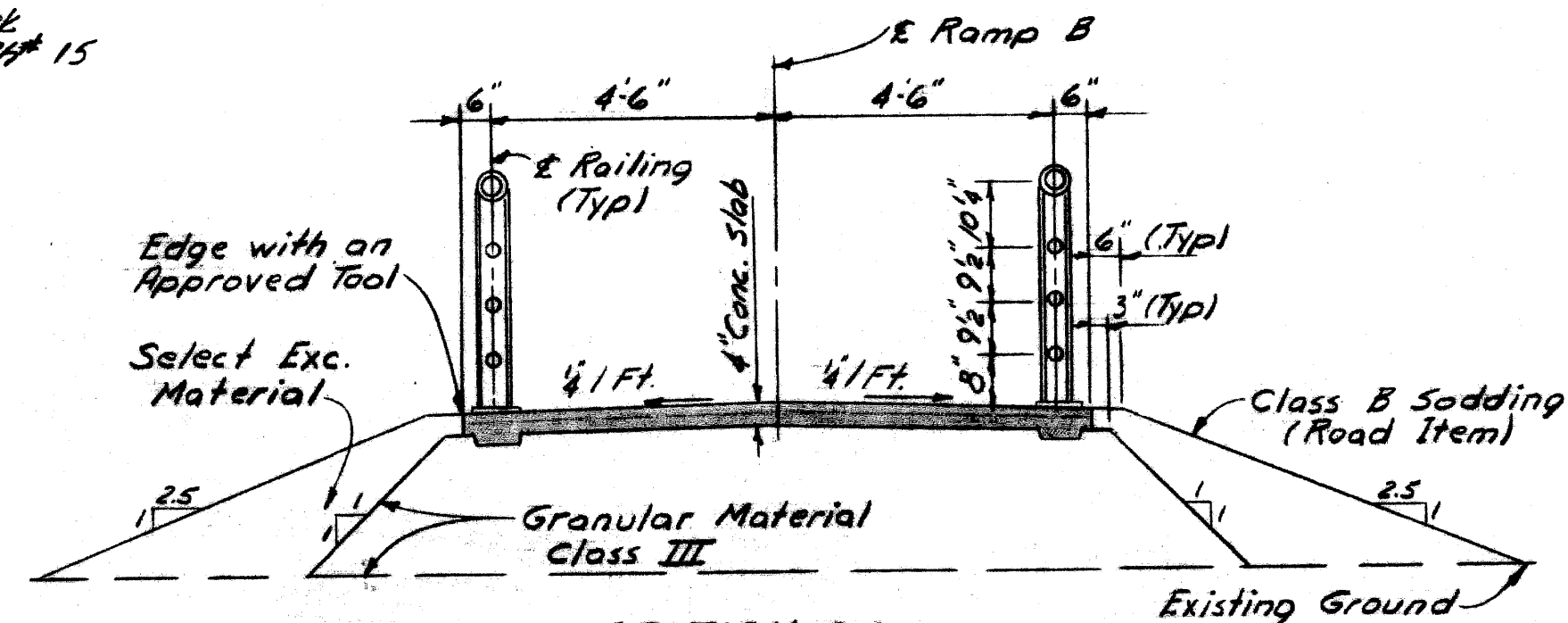
ROAD BOSS	<i>RJ</i>	9-66
DRAWN BY	<i>Shaw</i>	2-66
CHECKED BY	<i>THA</i>	1-66
SHEET	4	OF 16

P06 of 82123J

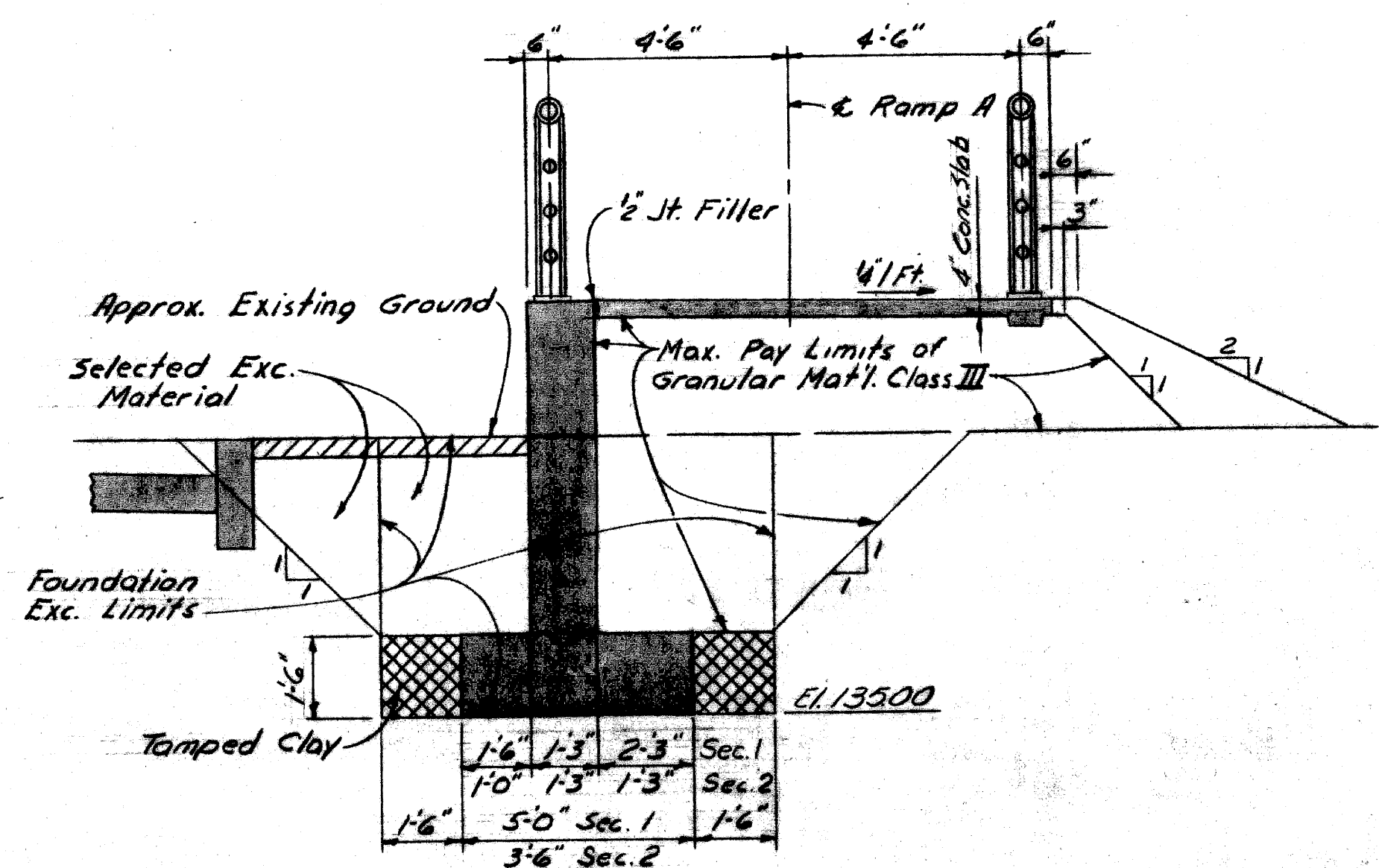


SECTION A-A
Scale: 3/8" = 1'-0"

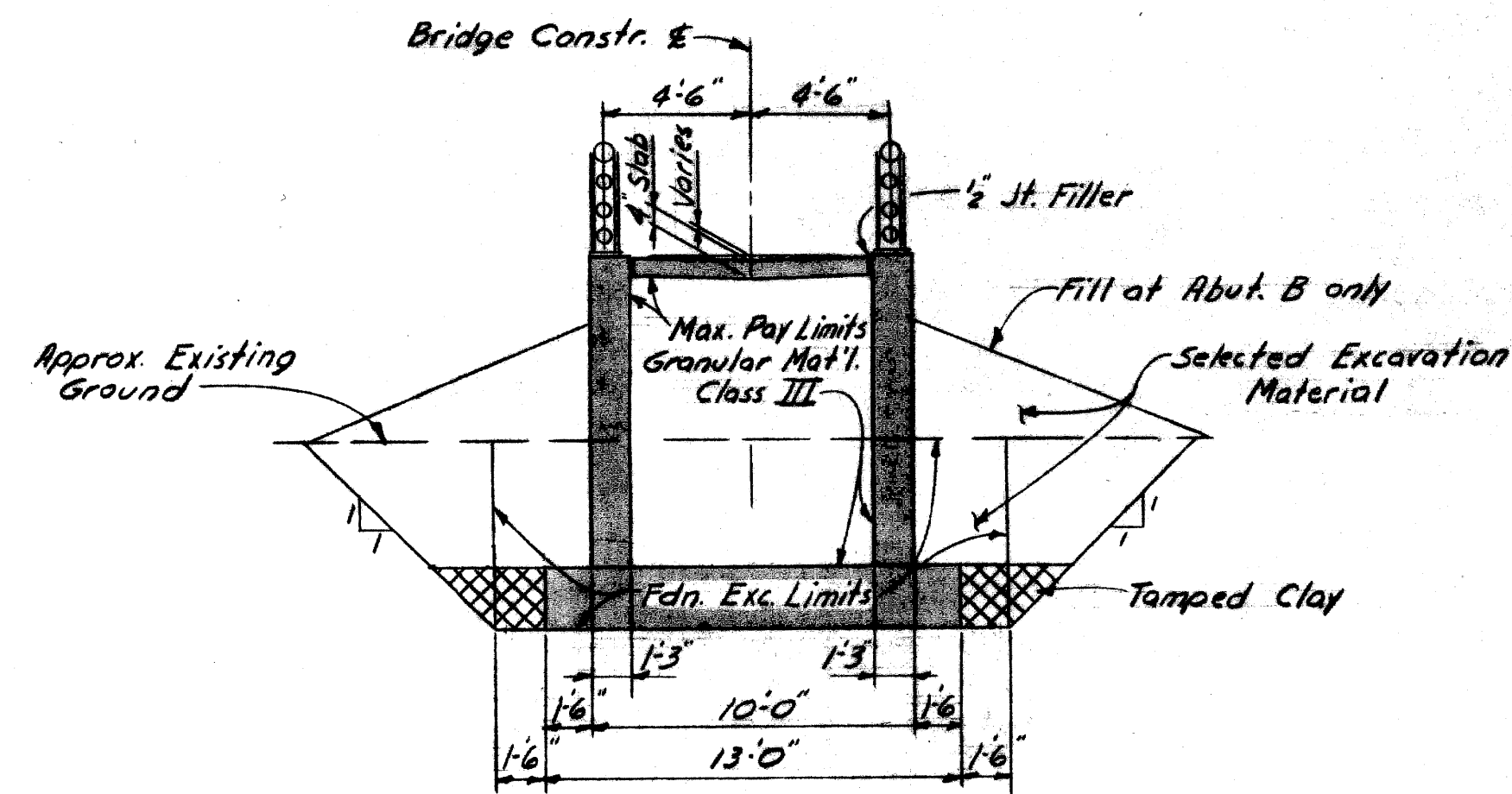
Note:
For Detail of Chain Link
Fence & Framing, See SP# 15



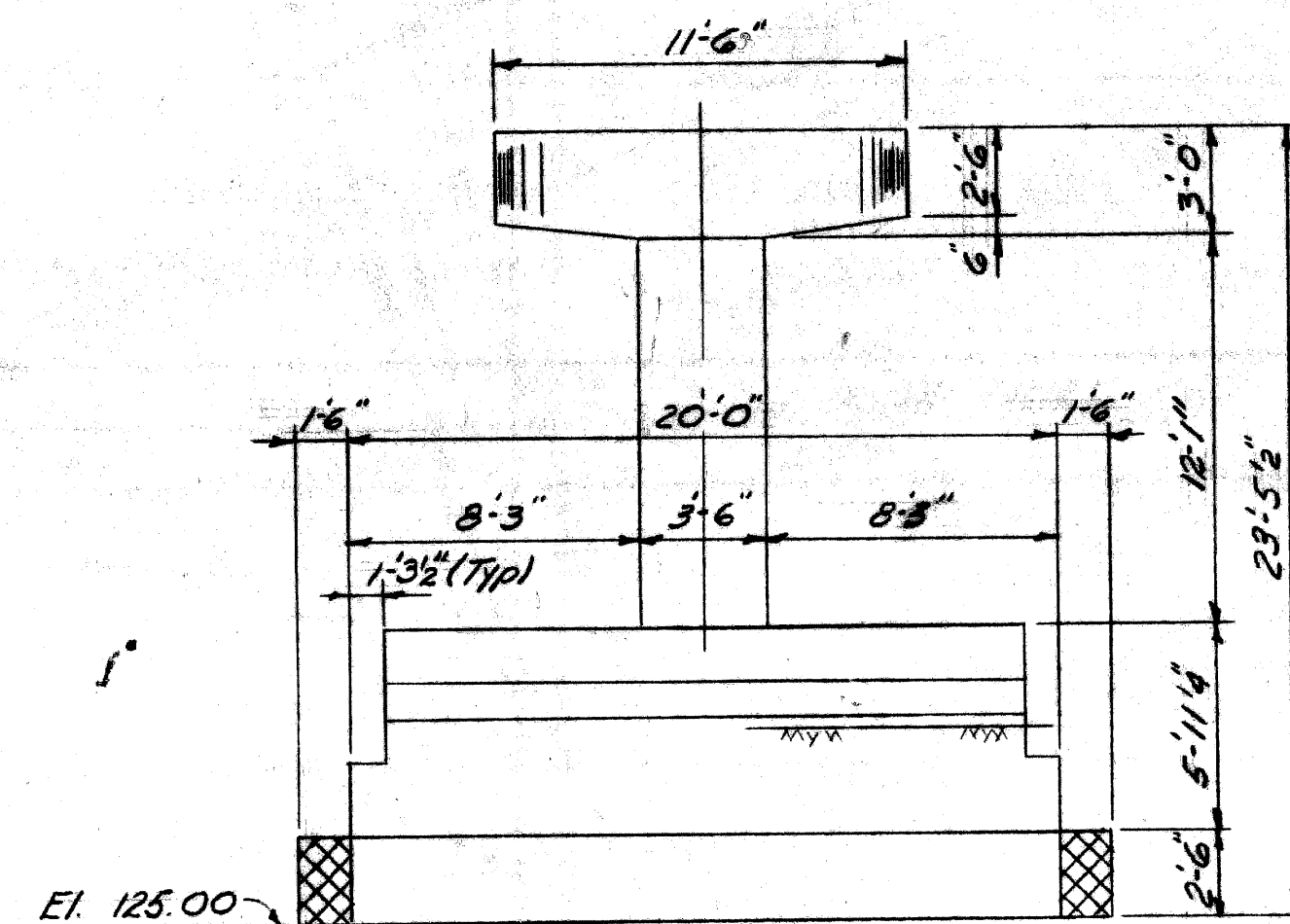
SECTION C-C
Scale: 3/8" = 1'-0"



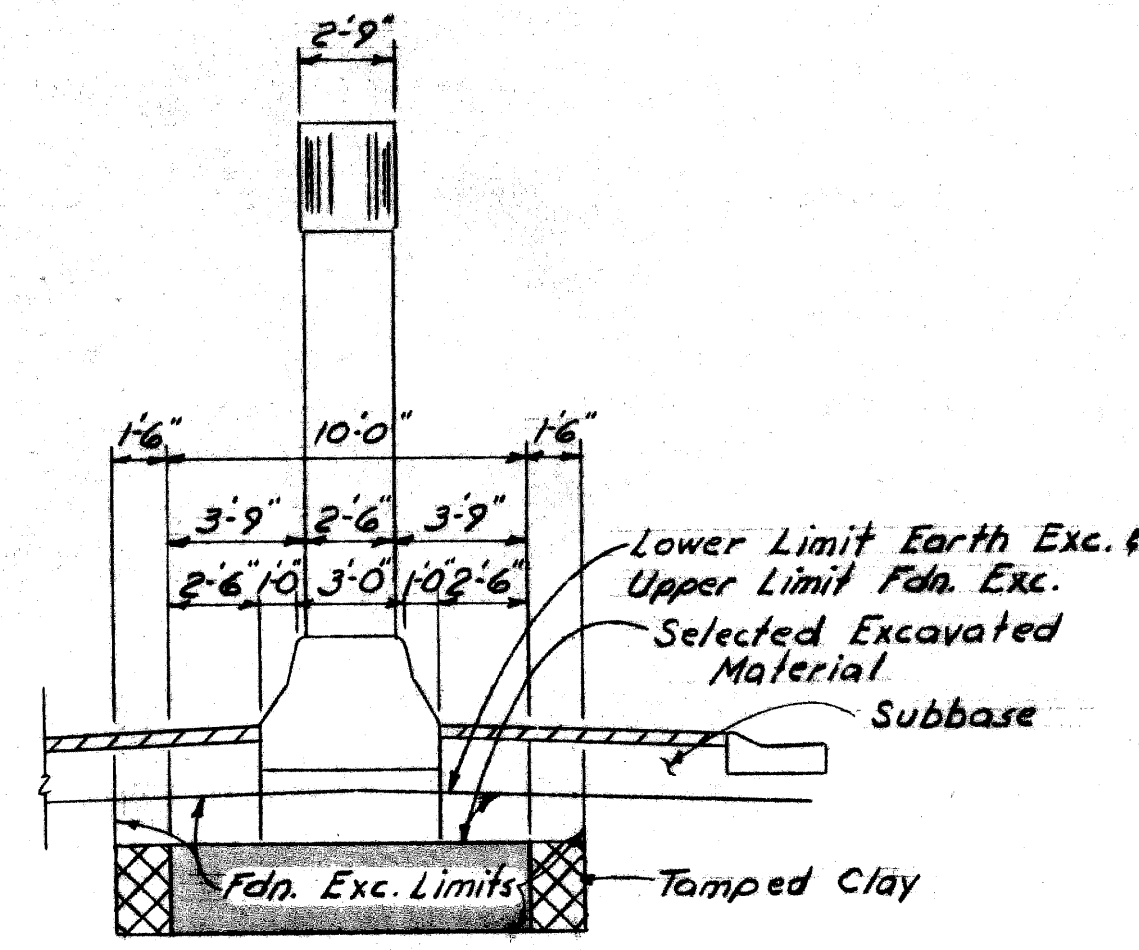
SECTION D-D
Scale: 3/8" = 1'-0"



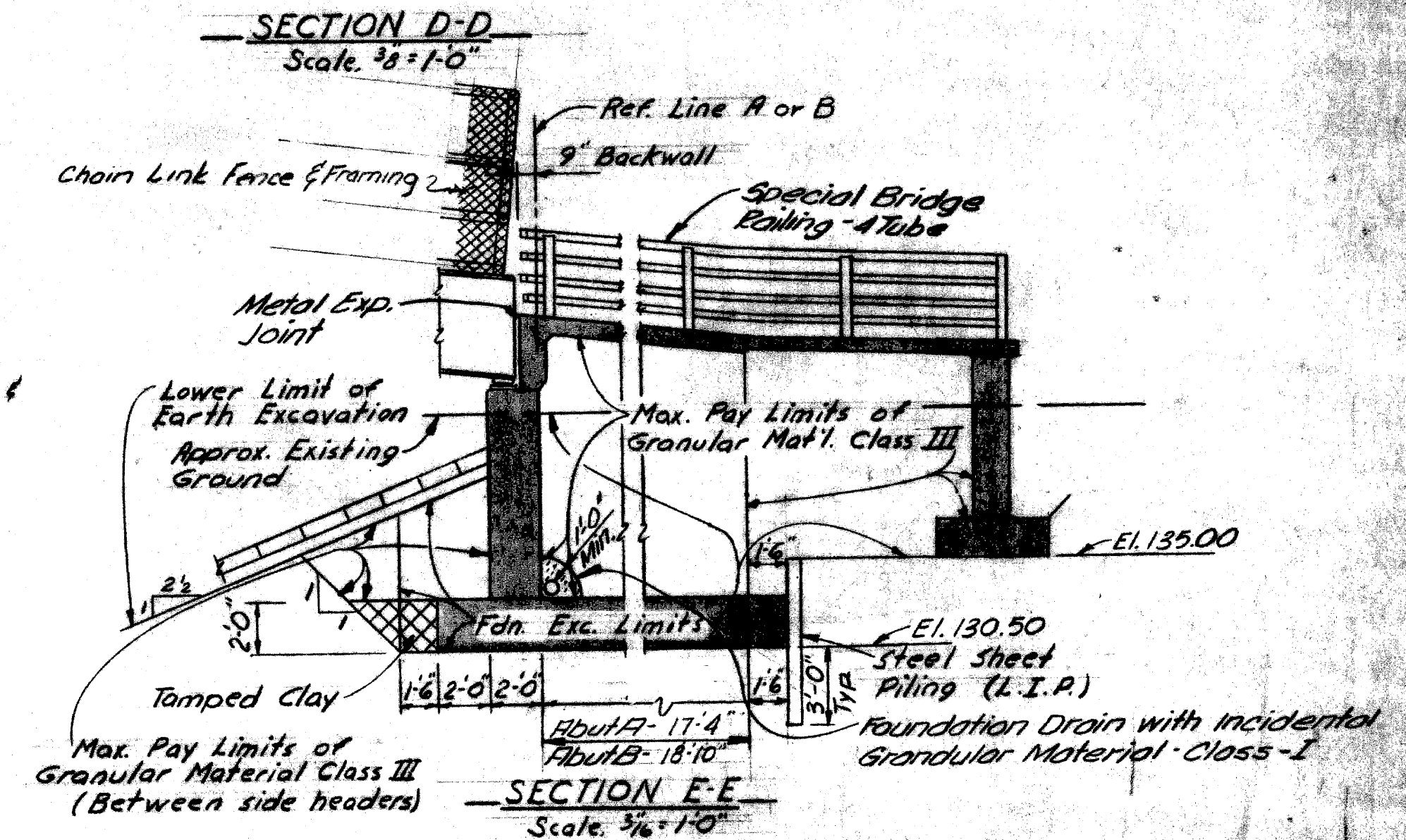
SECTION B-B
Scale: 3/8" = 1'-0"



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



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



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

MISCELLANEOUS QUANTITIES				
Item	Unit	Abut A	Abut B	Total
8" Sewer Class A	Lin. Ft.	55	50	105
Slope Protection Class A	Sq. Yds.	14	14	28
Slope Protection Header	Lin. Ft.	39	39	78

GENERAL NOTES:

The design of this structure is based on the M.D.S.H. Specifications for the design of Highway Bridges, 1958 edition and current M.A.S.H.O. Standard Specifications for Highway Bridges.

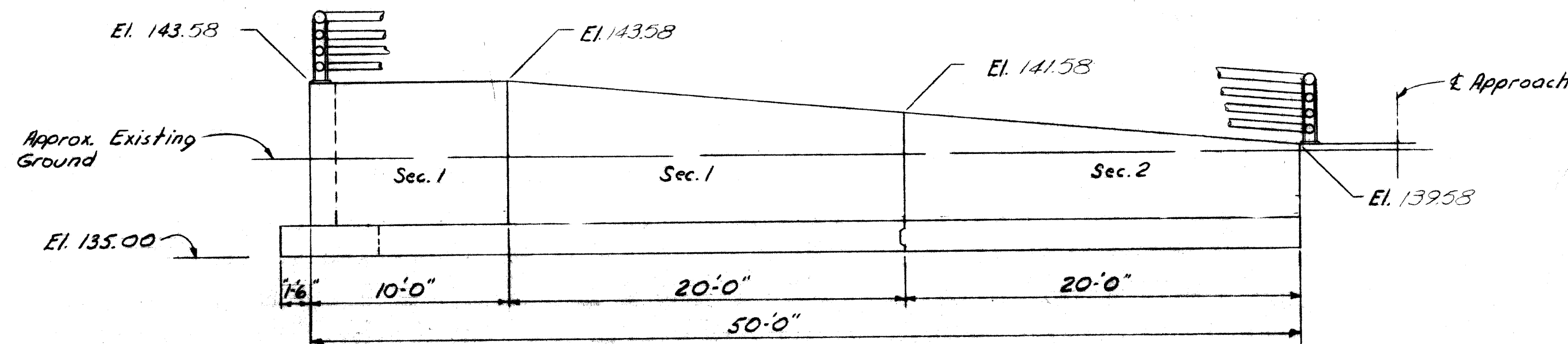
Live Load

Concrete Slab & Floor Beams - 85 psf.
Stringers - 85 psf.
Alternate Live Loading - One 5 ton truck plus impact.

The top of slab is parallel to the vertical curve and tangents.

For details of Slope Protection, see Standard Sheet SP2.

Tamped Clay and Selected Excavated Material are incidental to Unclassified Excavation.
Granular Material Class I is incidental to Foundation Drain.
Granular Material Class III is included with Road Plans and = 210 Cu. Yds.



ELEVATION AT RAMP A RETAINING WALL
Scale: 3/8" = 1'-0"

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

APPROVED: *H. Conrad*
STRUCTURAL ENGINEER

JOB No.
PW 990(3)

NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

ROOSEVELT AVE. PEDESTRIAN BRIDGE
CROSSING THE JEFFRIES FREEWAY IN DETROIT
GENERAL PLAN OF STRUCTURE

APPROVED: _____ DESIGN SUPERVISING ENGINEER

APPROVED: _____ DESIGN ENGINEER

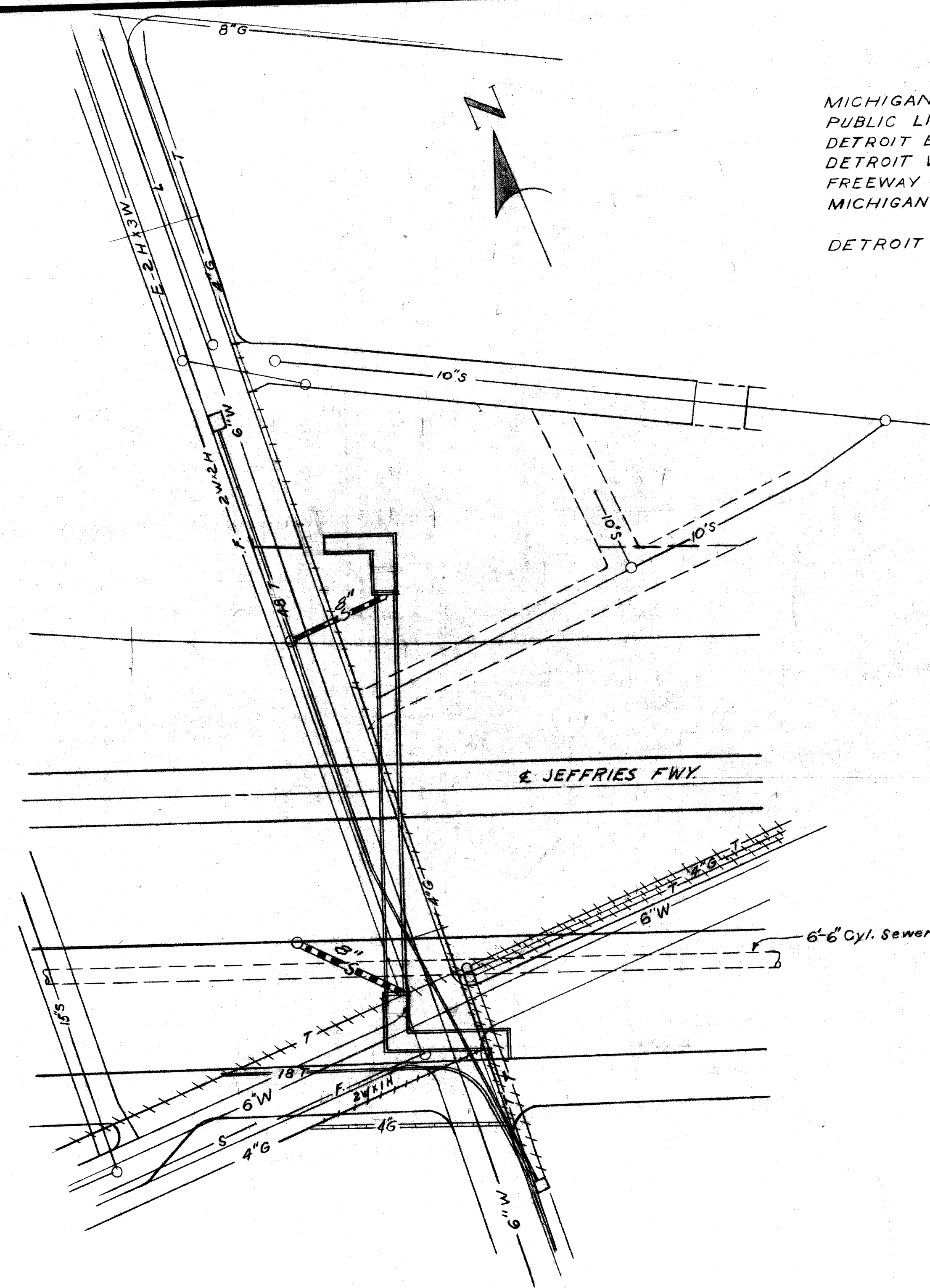
REVISIONS

NO.	DESCRIPTION	DATE	BY

SOON BOSS: *R.J.* 3-68
DRAWN BY: *Garnigah* 2-68
TRACED BY: *R.V.M.* 4-68
CHECKED BY: *R.V.M.* 4-68
SHEET 5 of 76

P06 of 82123J

P06



SITUATION PLAN
Scale 1"=40'

UTILITY

MICHIGAN CONSOLIDATED GAS
PUBLIC LIGHTING COMMISSION
DETROIT EDISON COMPANY
DETROIT WATER DEPARTMENT
FREEWAY & CITY OF DETROIT SEWERS
MICHIGAN BELL TELEPHONE COMPANY
M.B.T. DUCT TUNNEL
DETROIT FIRE DEPARTMENT

-LEGEND-

EXISTING	DELETED OR ABANDONED	NEW WORK BY OTHERS	NEW WORK BY CONTRACTOR
— G —	+++ G +++	== G ==	— S —
— L —			— T —
— E —			— F —
— W —			
— S —			
— T —	+++ T +++		
— F —			

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

APPROVED: *H. Conant*
STRUCTURAL ENGINEER

JOB No.
PW 990(3)

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

Roosevelt Ave. Pedestrian Bridge
Crossing the Jeffries Freeway in Detroit

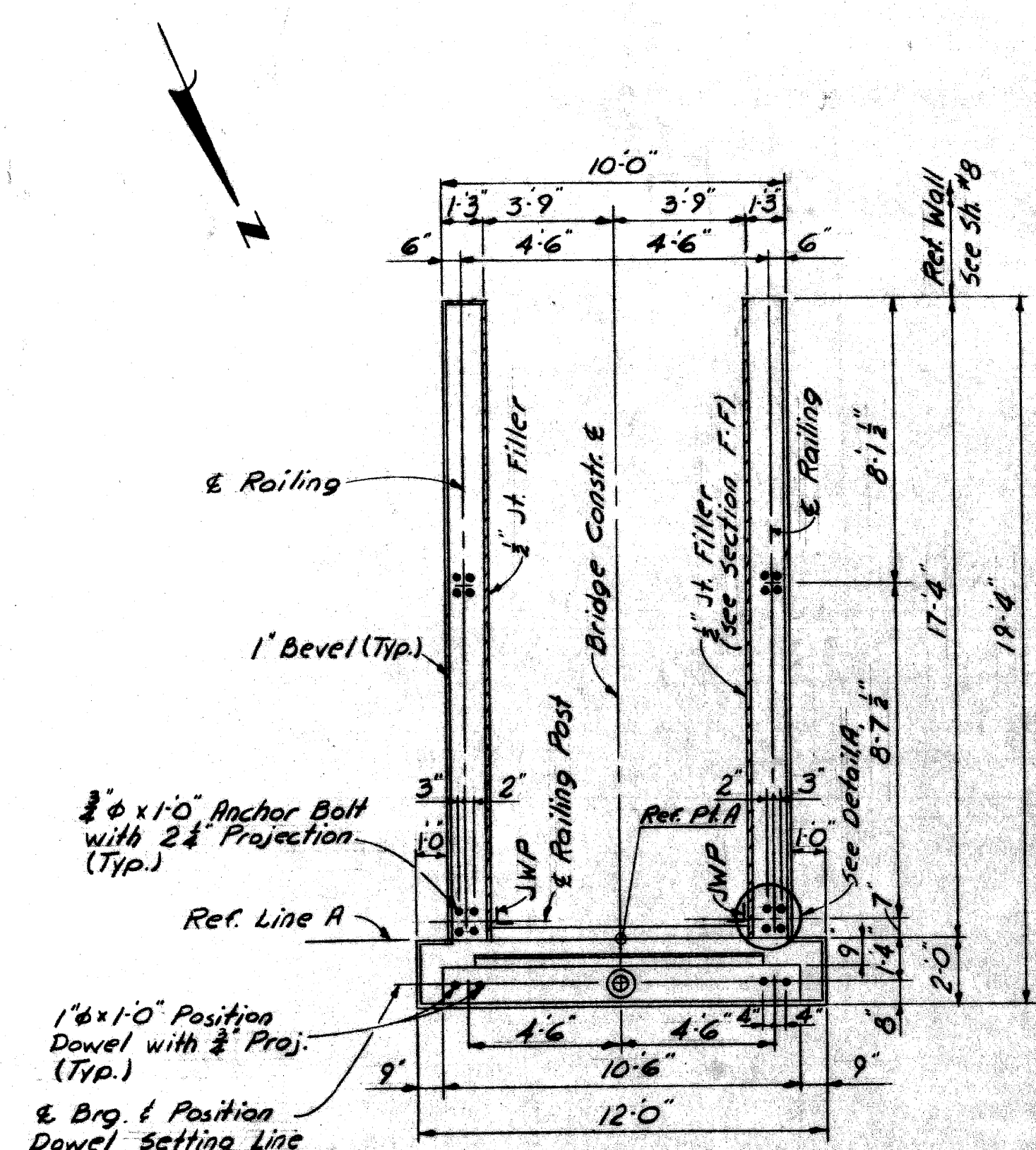
EXISTING UTILITIES AND PROPOSED ALTERATIONS

NO.	DESCRIPTION	DATE	BY

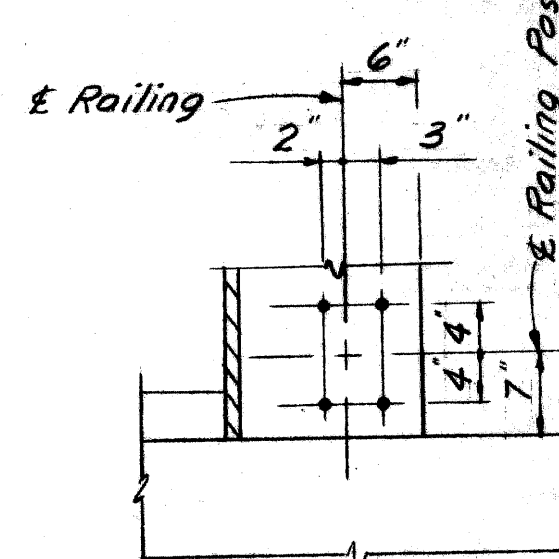
REVISIONS	DATE	BY

DRAWN BY	J.S.	3-68
CHECKED BY	J.H.B.	4-68
SHEET	6	OF 16

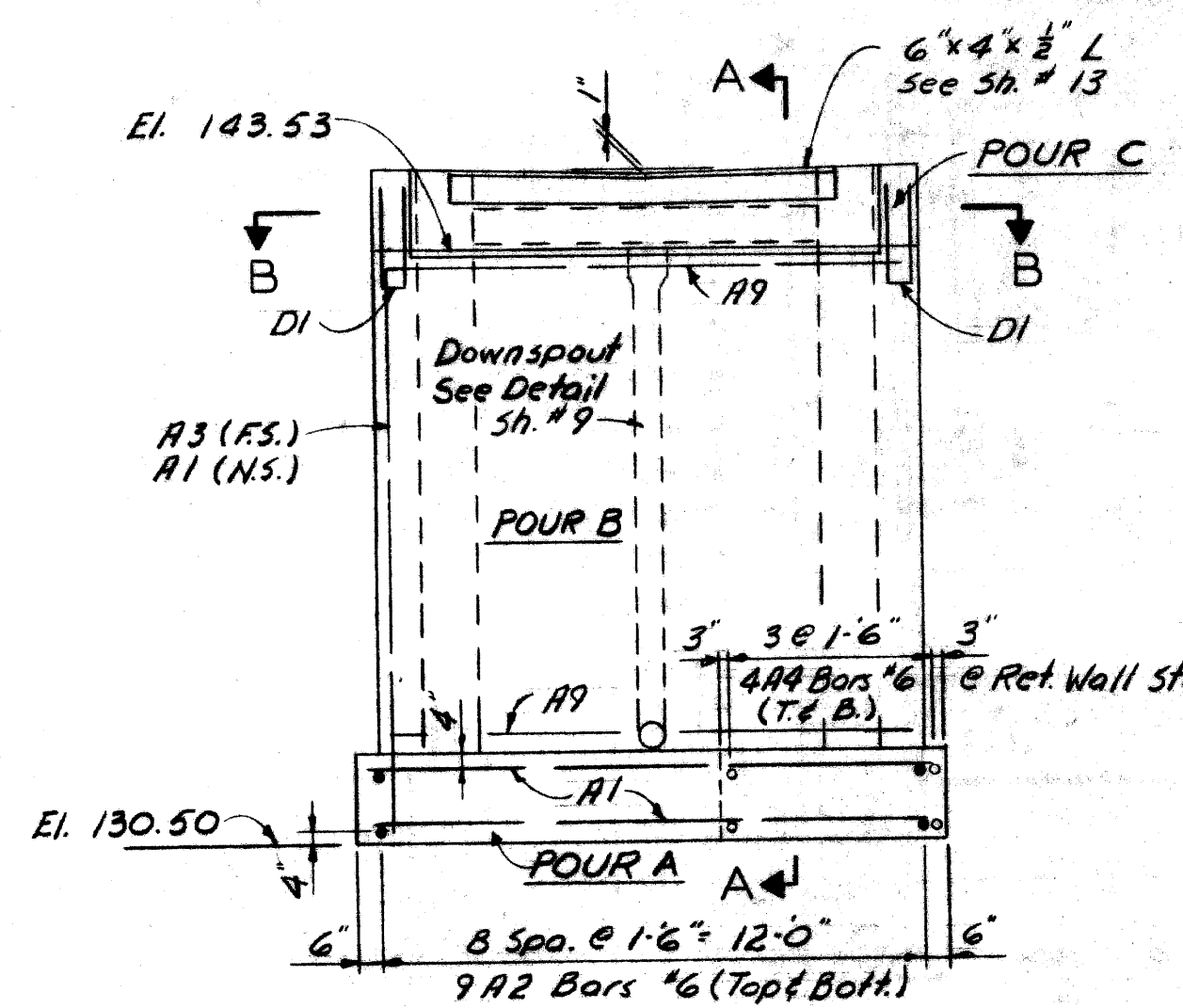
P06 of 82123J



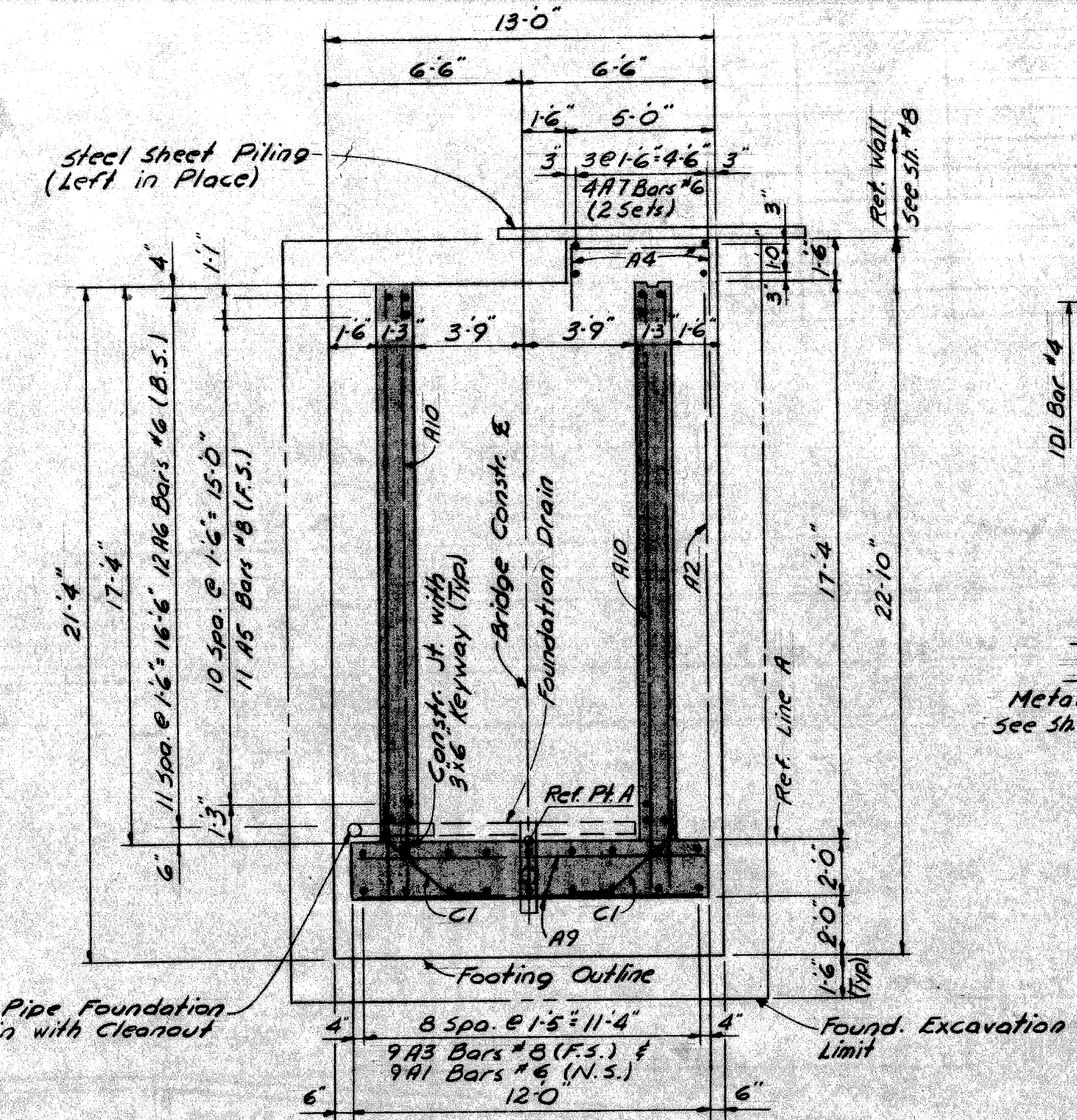
PLAN OF TOP



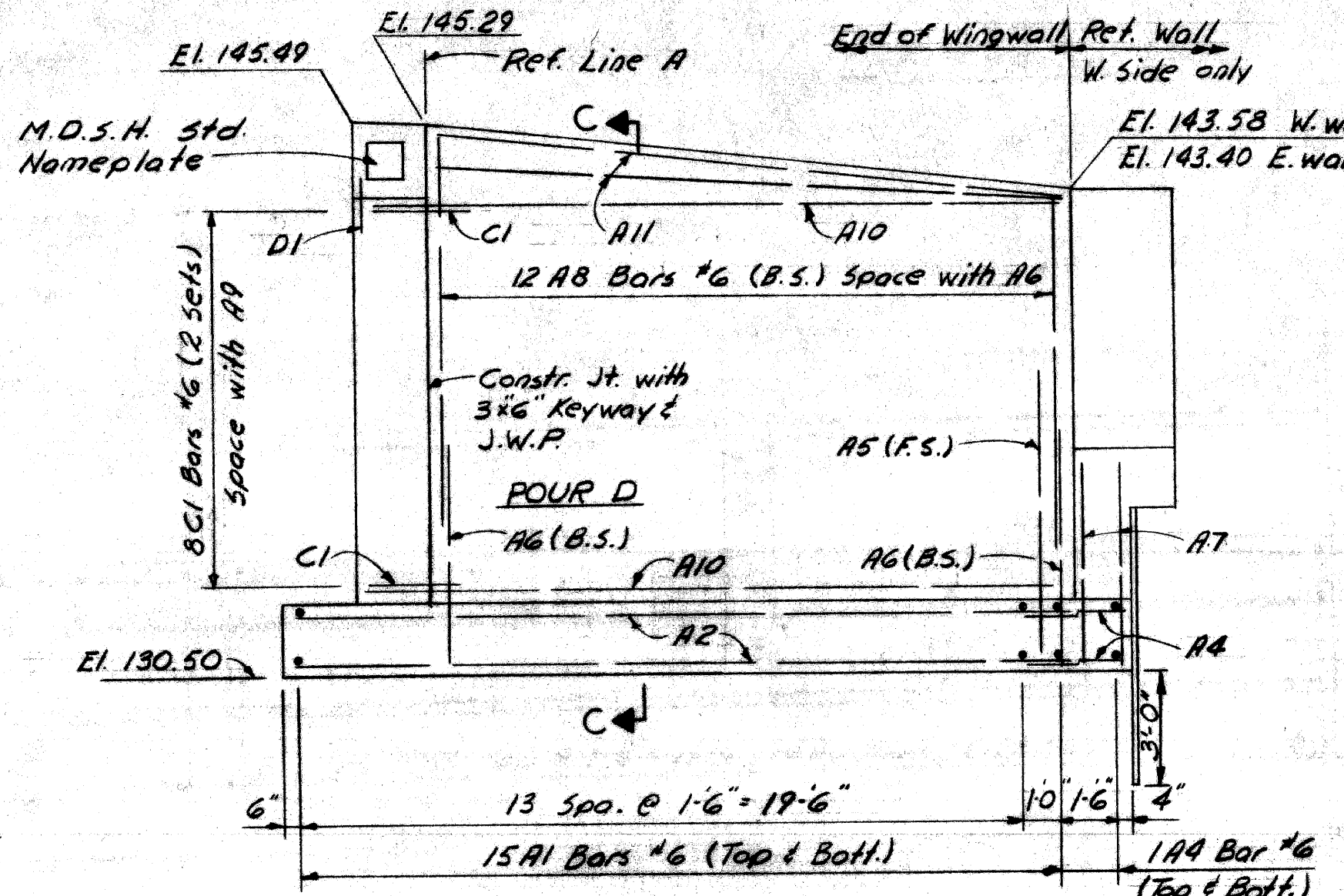
DETAIL A



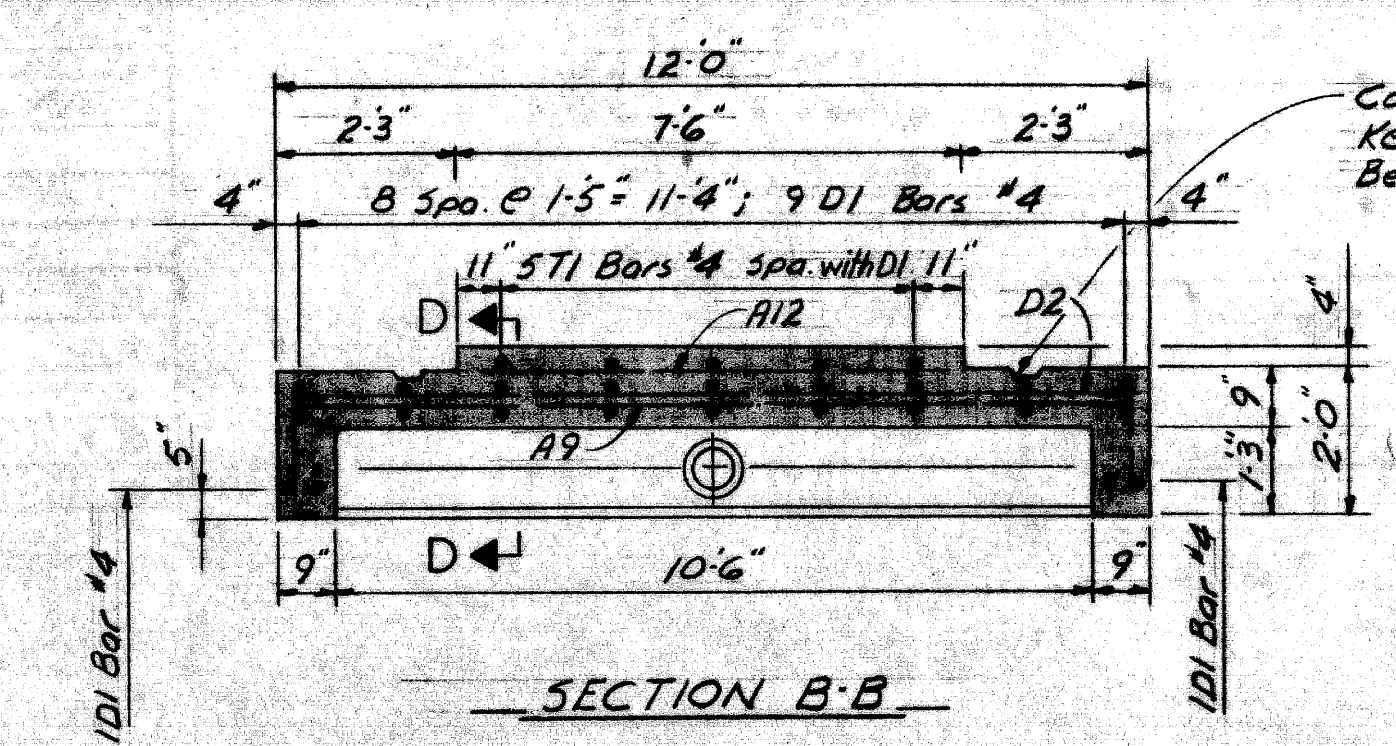
ELEVATION



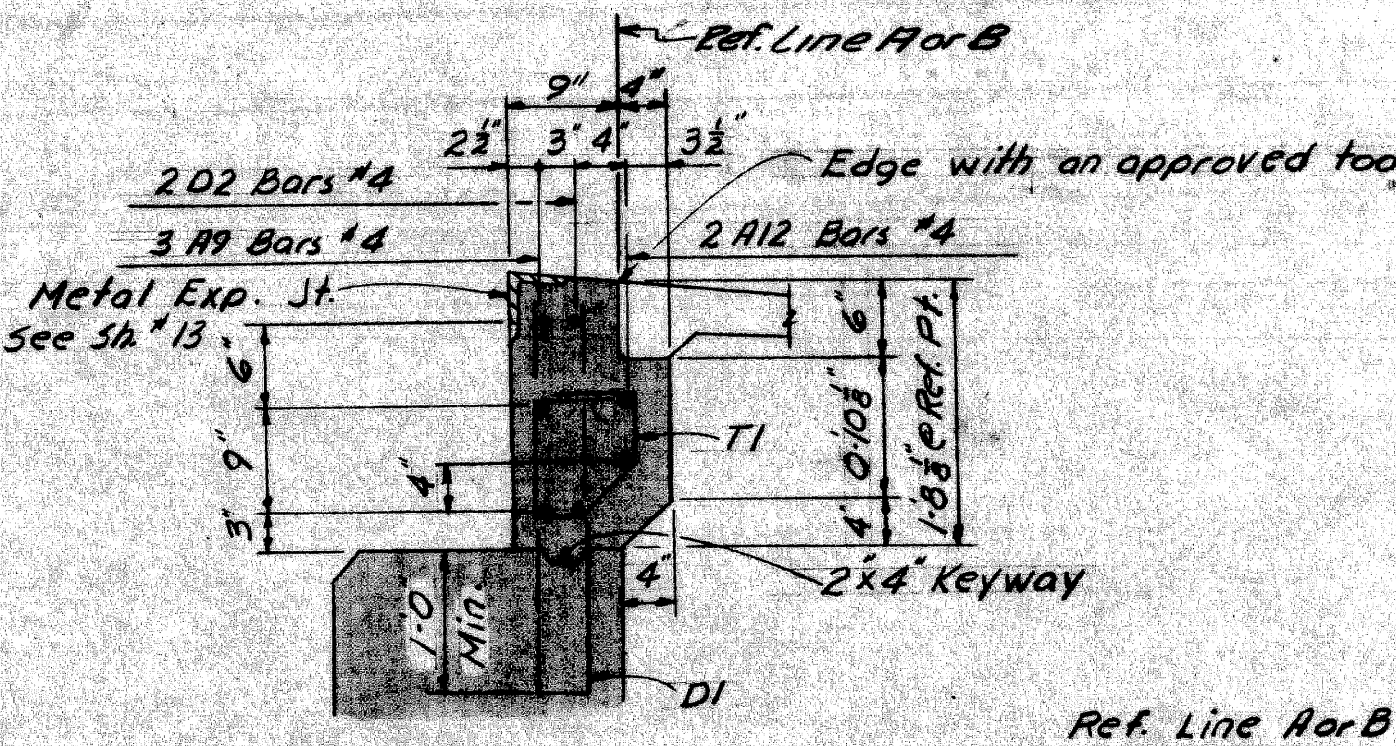
FOUNDATION PLAN



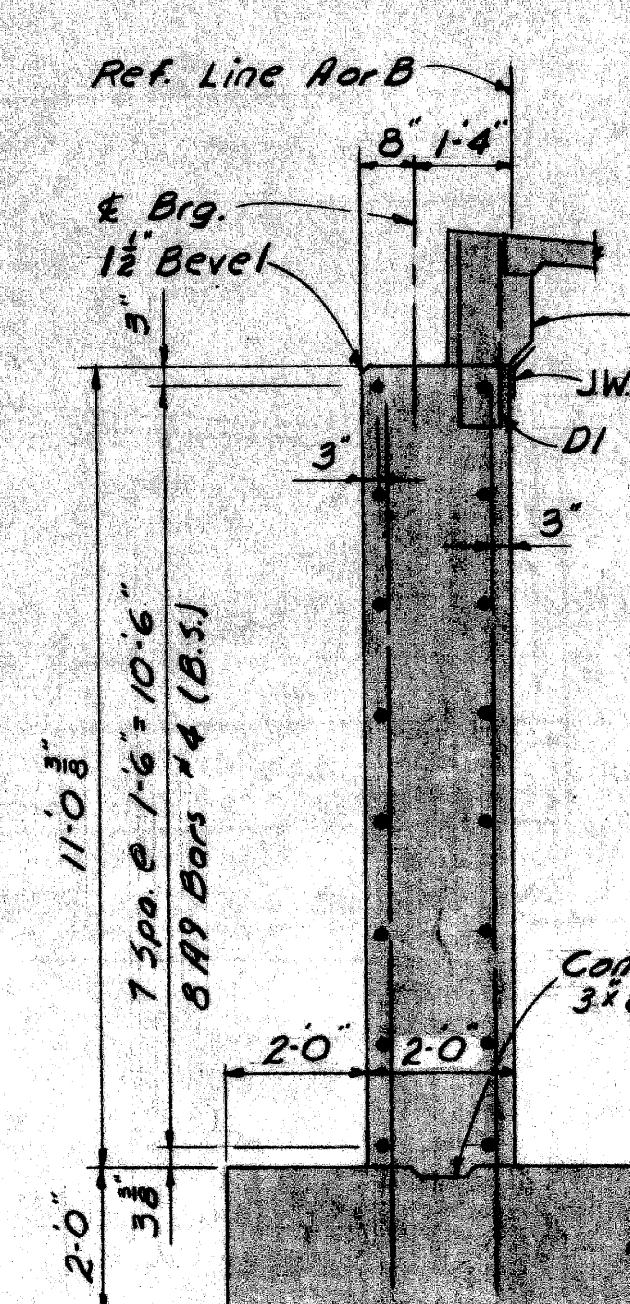
WINGWALL ELEVATION



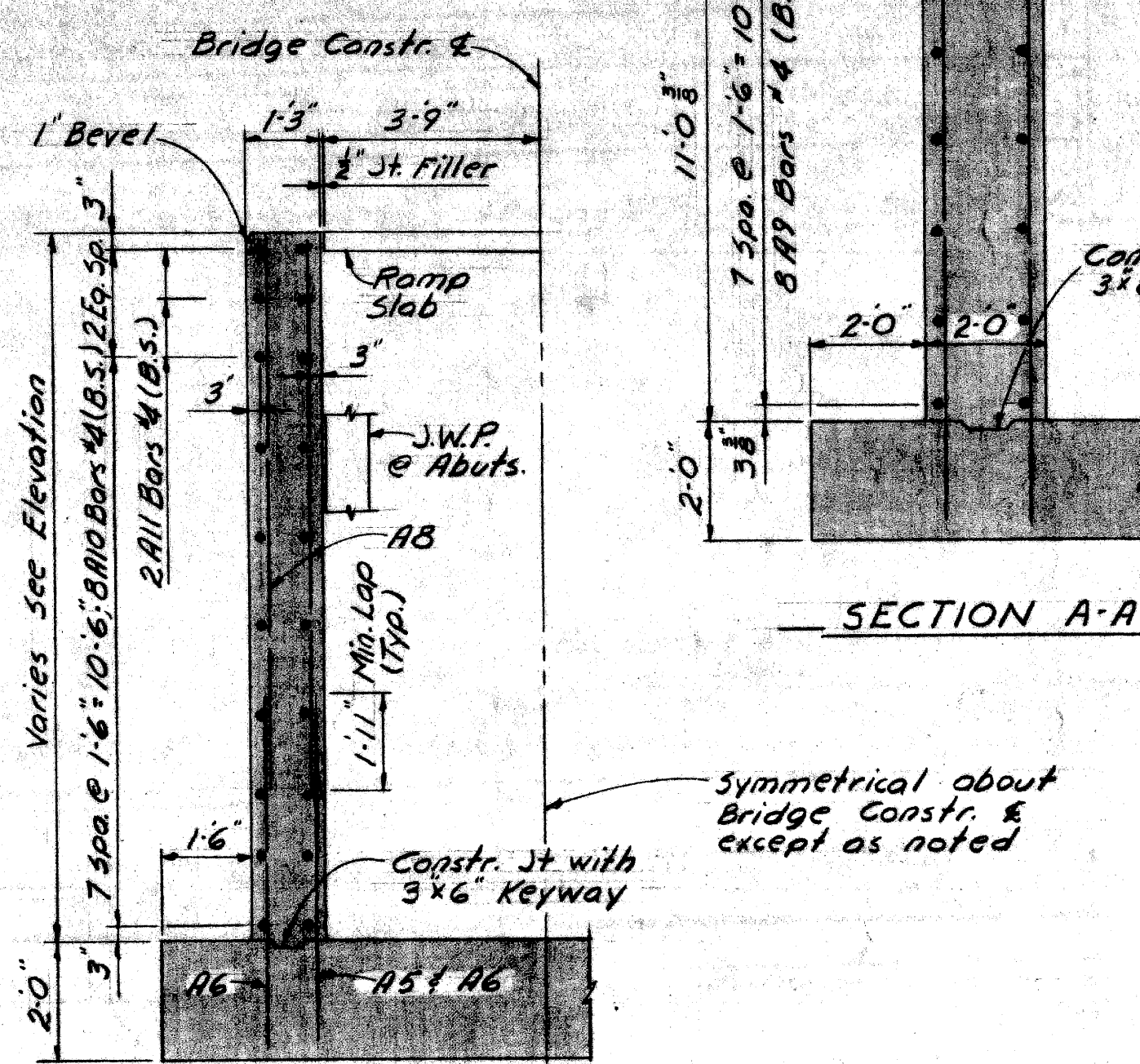
SECTION B-B



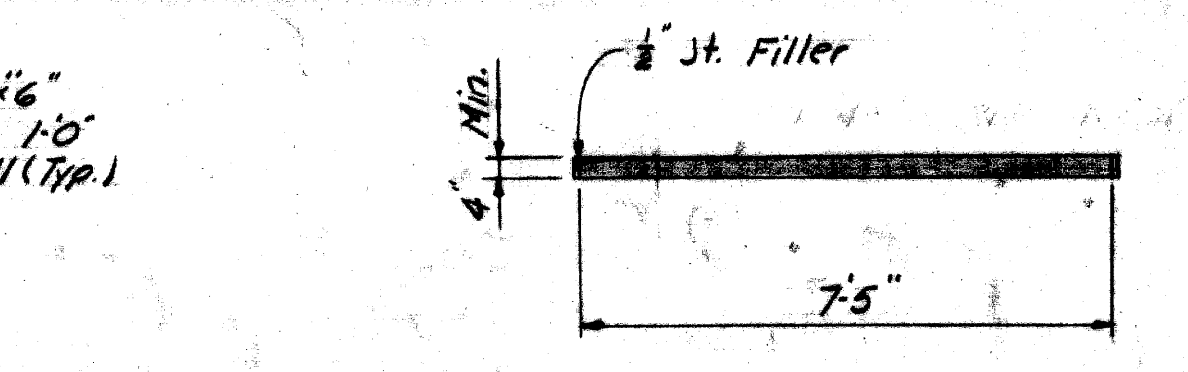
SECTION D-D



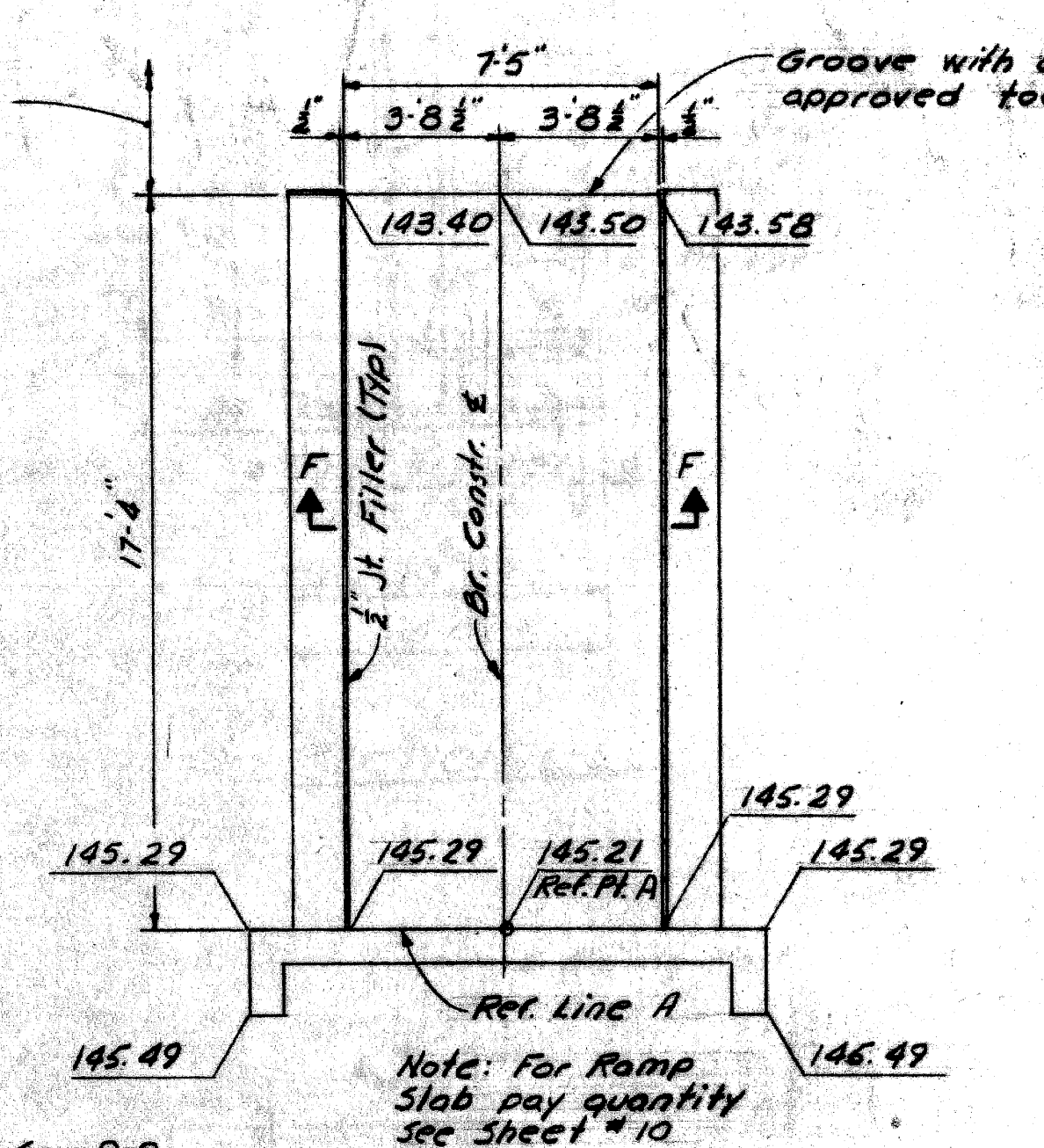
SECTION A-A



SECTION C-C



SECTION F-F



PLAN OF RAMP SLAB

GENERAL NOTES:

- J.W.P. denotes Joint Waterproofing.
- N.S. denotes Near Side, F.S. denotes Far Side, B.S. denotes Both Sides.
- For bevel, molding 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 = 1750 Lbs./sq. ft.
- Maximum foundation pressure D.L. and L.L. = 2600 Lbs./sq. ft.
- Cover face of Abut. with clear Protective Coating for Substructure concrete to 6" below finished grade.

Work this sheet with sheets # 8, 9, 10

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

ROOSEVELT AVE. PEDESTRIAN BRIDGE
CROSSING THE JEFFRIES FREEWAY IN DETROIT

ABUTMENT DETAILS

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

APPROVED: *[Signature]* ARCHITECTURAL ENGINEER

JOB No. PW 990(3)

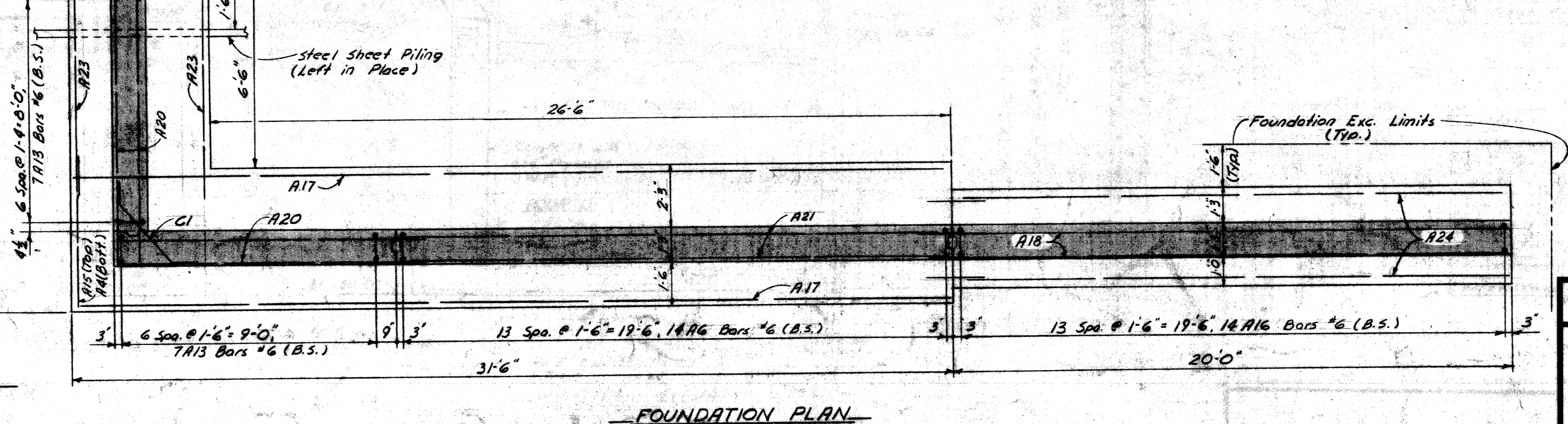
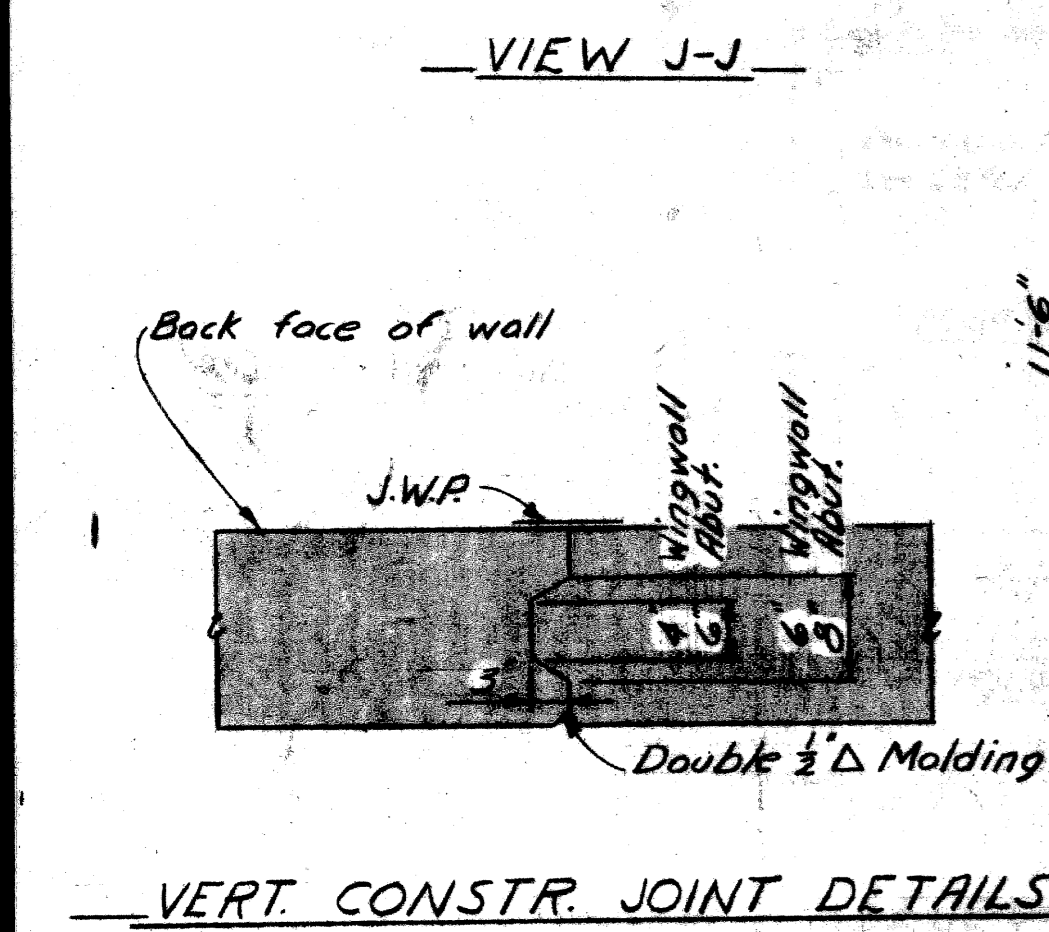
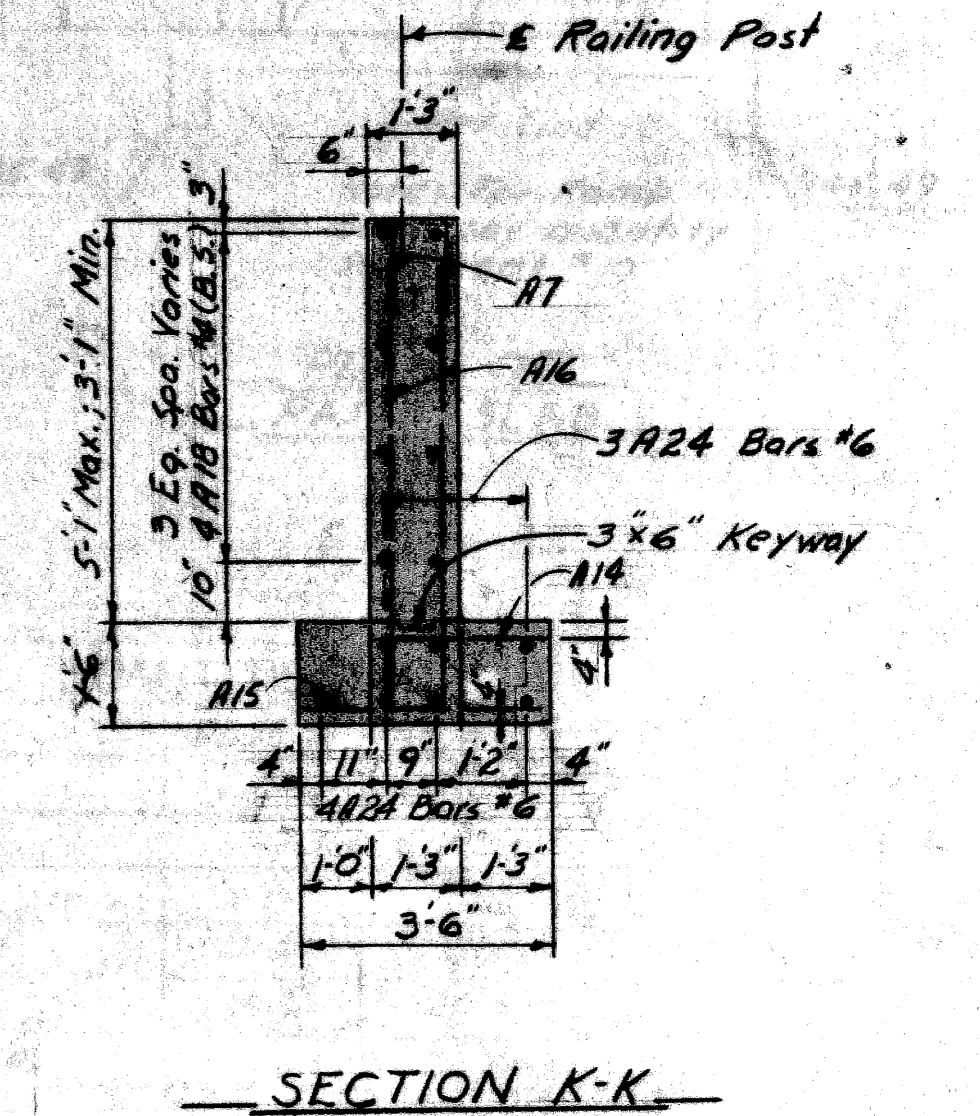
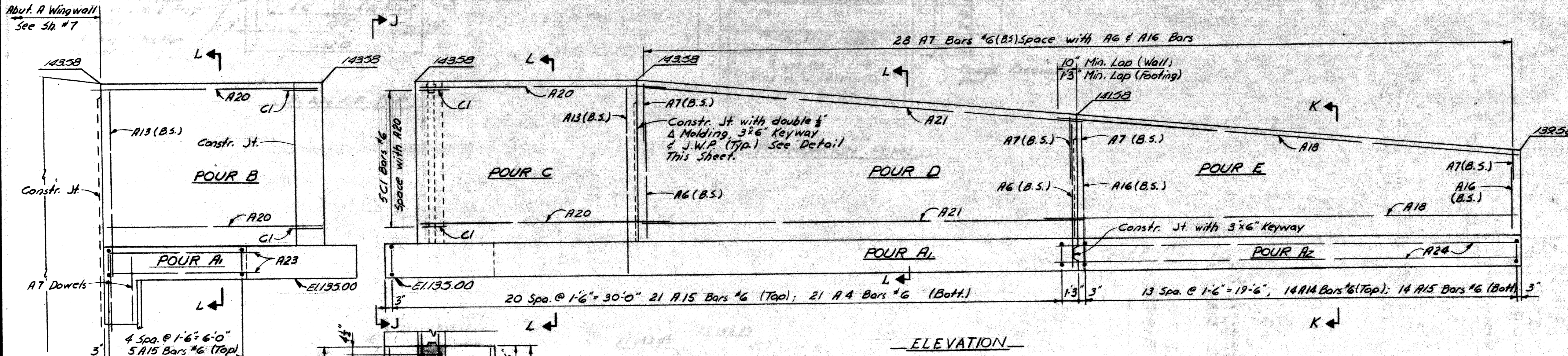
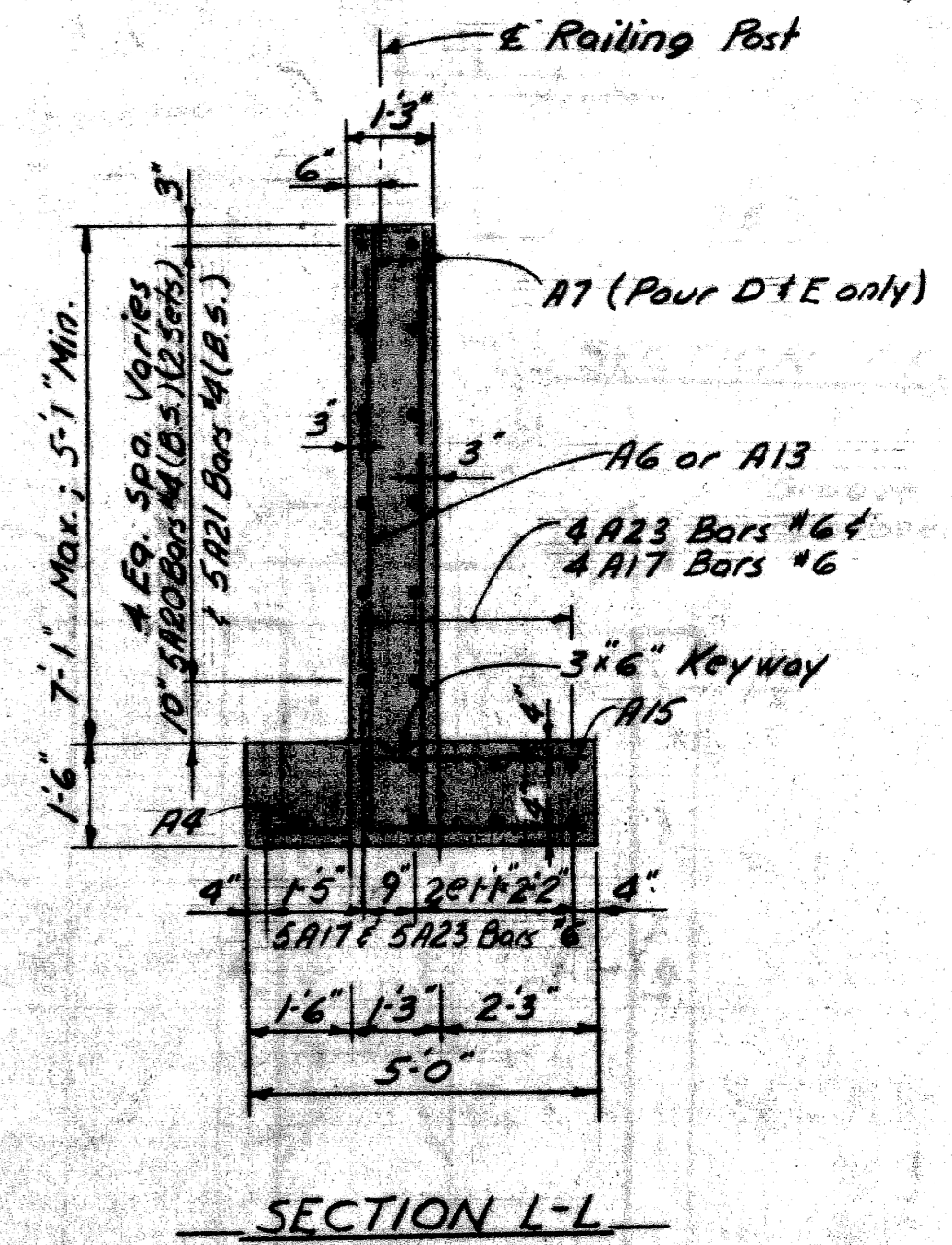
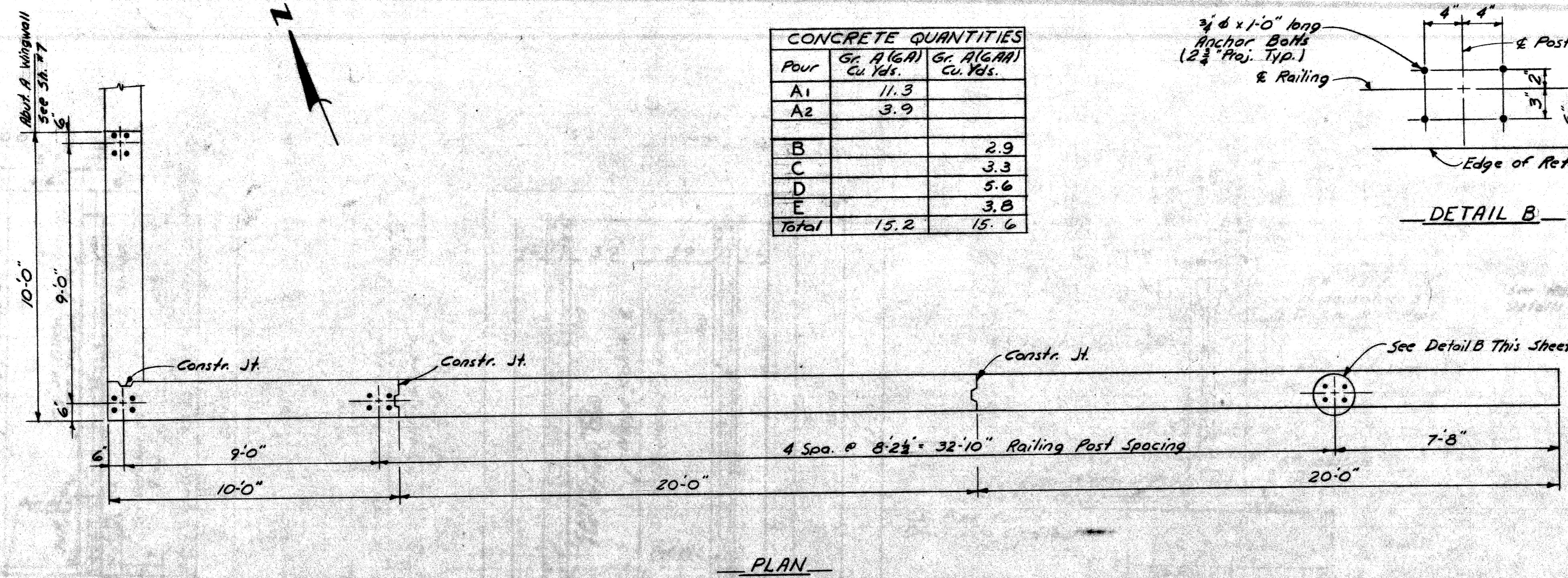
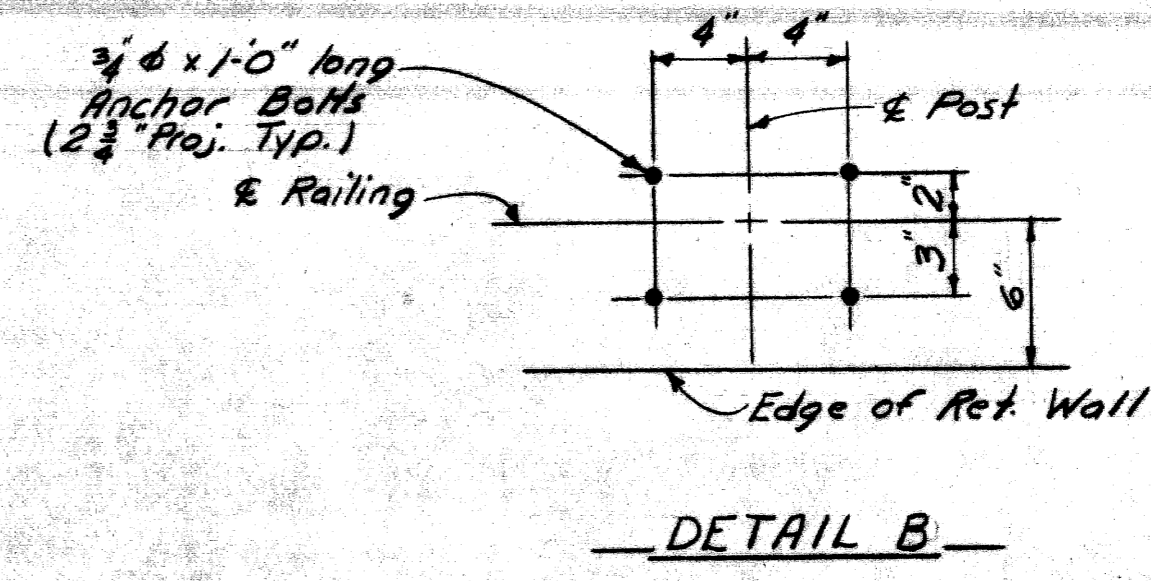
NO.	DESCRIPTION	DATE	BY

REVISIONS

DESIGNED BY: Lecher 3-63
DRAWN BY: Gennep 1-64
CHECKED BY: P.B. 8-64
SHEET 7 OF 16

PO6 of 82123J

CONCRETE QUANTITIES		
Pour	Gr. A (G.A.) Cu. Yds.	Gr. A (G.A.A.) Cu. Yds.
A1	11.3	
A2	3.9	
B		2.9
C		3.3
D		5.6
E		3.8
Total	15.2	15.6



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

APPROVED: *J. J. Condit*
 STRUCTURAL ENGINEER

JOB No.
 PW 990(3)

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

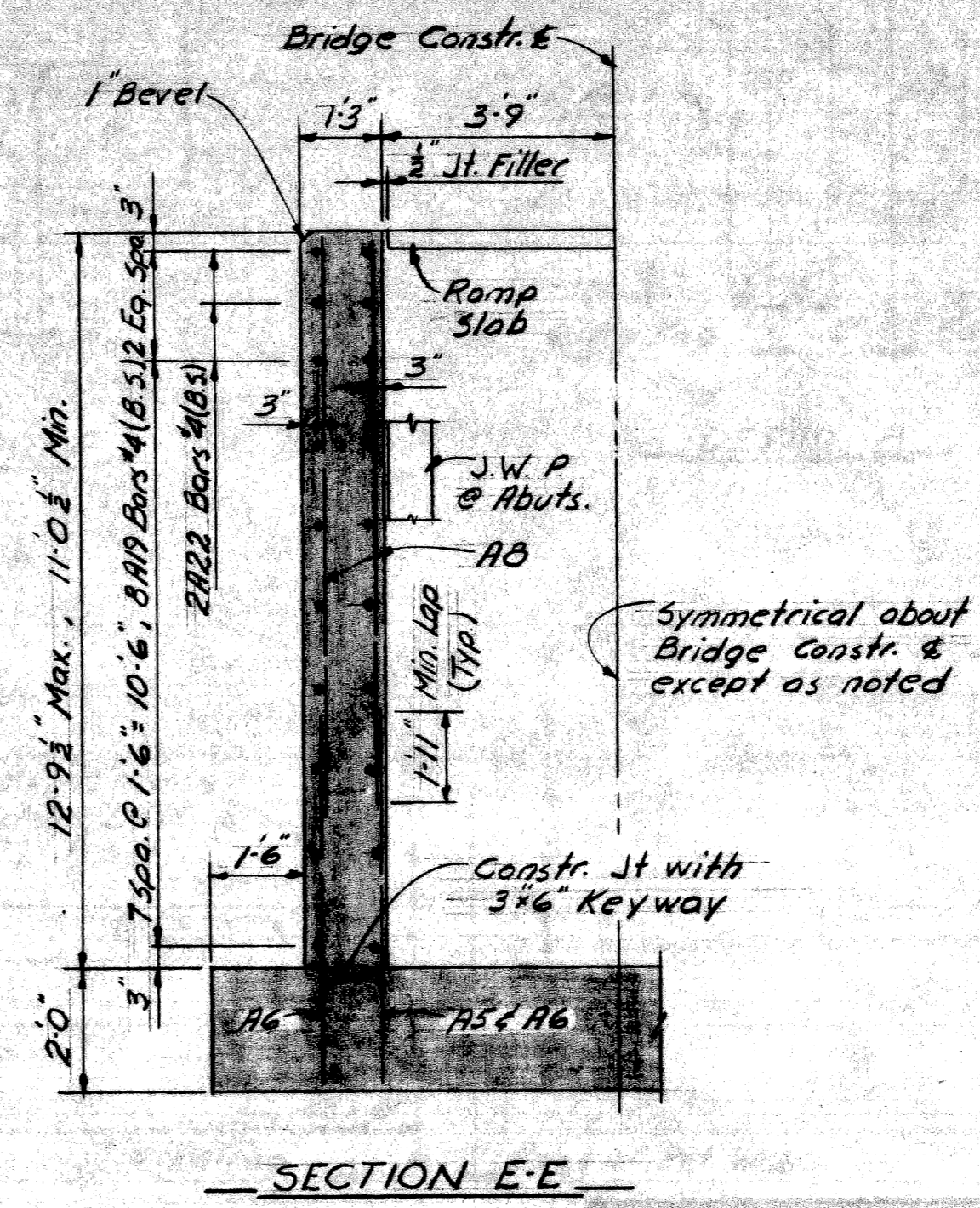
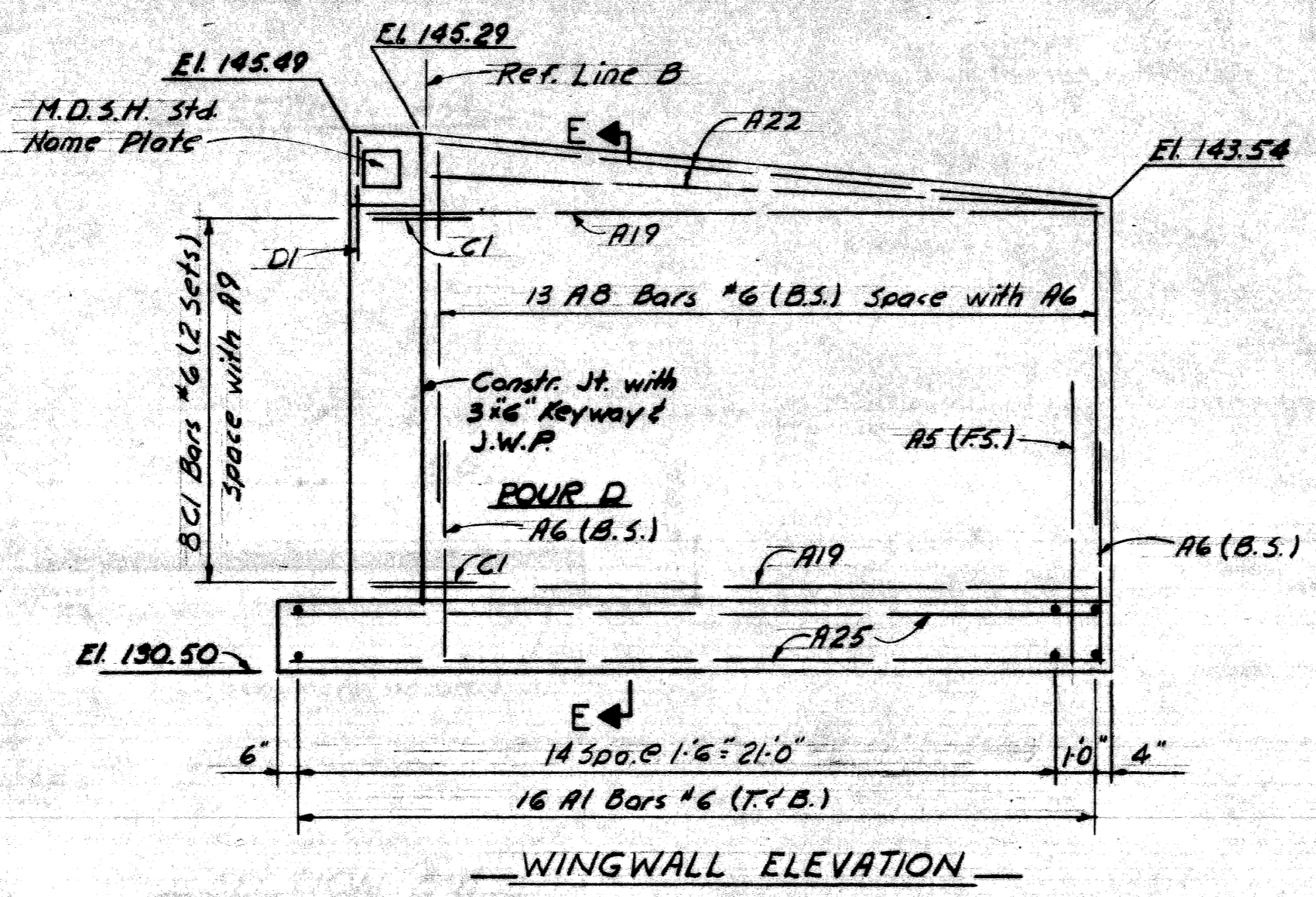
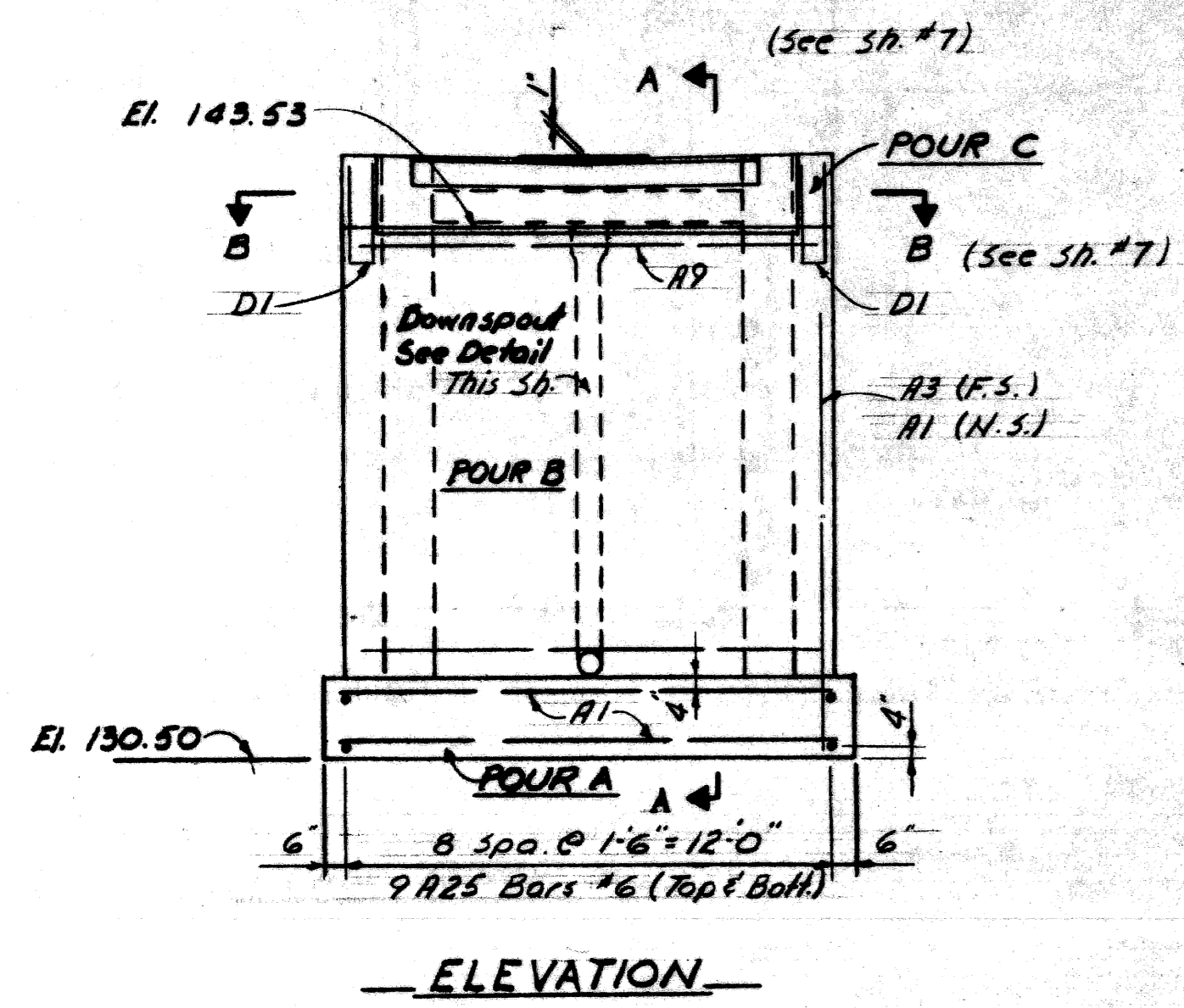
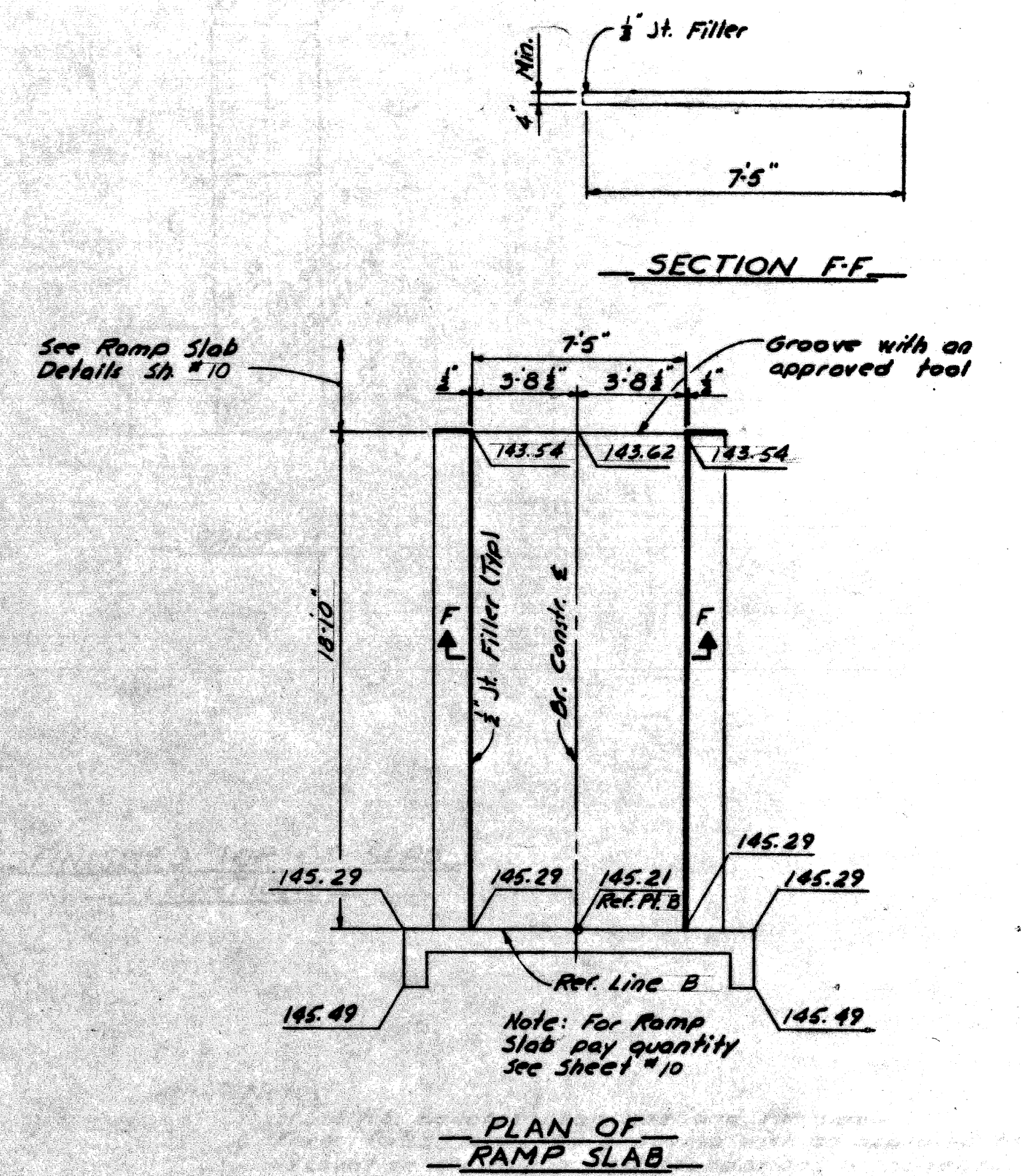
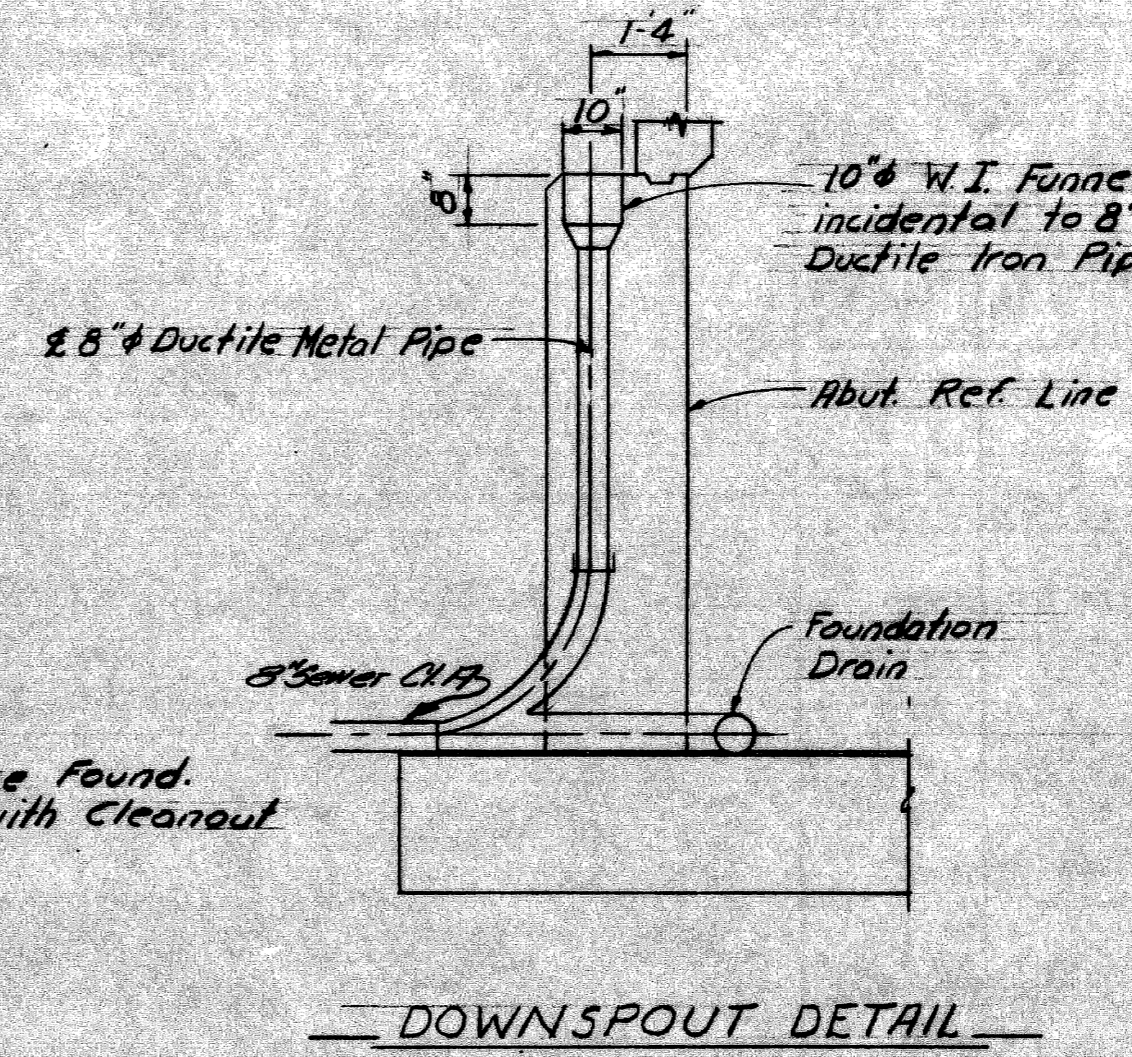
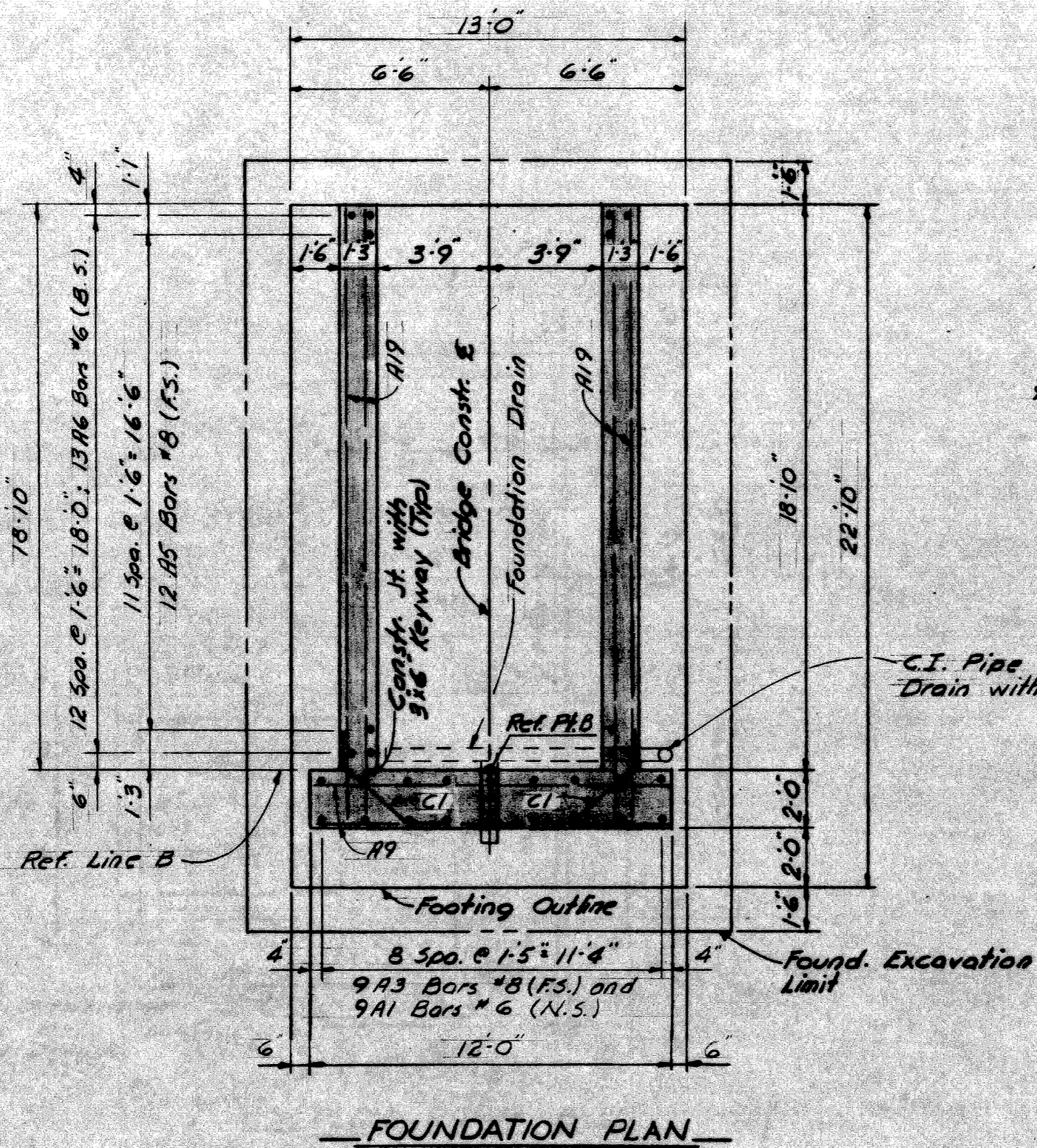
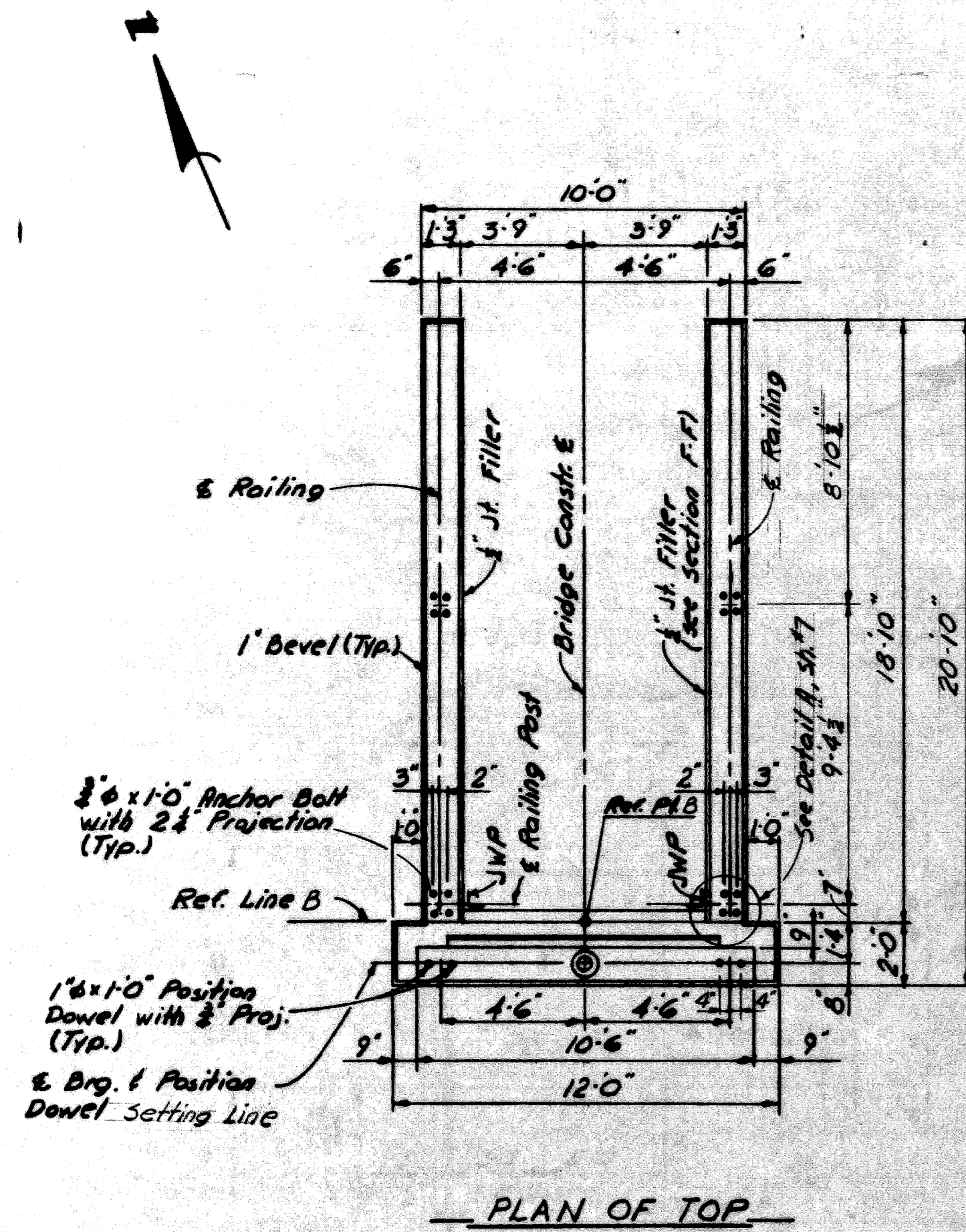
Roosevelt Ave. Pedestrian Bridge
 Crossing the Jeffries Freeway in Detroit

ABUTMENT DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT
 SQUAD BOSS *Locher* 2-69
 DRAWN BY *Caravaglia* 3-68
 TRACED BY
 CHECKED BY *F. O. O.* 8-69
 SHEET 8 OF 16
 P06 of 82123J

ABUT. A



CONCRETE QUANTITIES			
Pour	Location	Abut. A	Abut. B
A	Footing	21.1	22.0
Total gr. A(6A)		43.1 Cu Yds.	
B	Abutment Stem	9.8	9.8
C	Backwalls	0.8	0.8
D	Wingwalls	19.0	20.8
Total gr. A(6A)		61.0 Cu Yds.	

MISCELLANEOUS QUANTITIES				
Item	Unit	Abut. A	Abut. B	Total
Unclassified Excavation	Cu. Yds.	198	125	323
Protective Sealant Coating	Sq. Ft.	13	13	26
Low Temperature Protection	Cu. Yds.	81	54	135
1/2" Joint Filler	Sq. Ft.	32	14	46
Joint Waterproofing	Sq. Ft.	95	52	147
Foundation Drain	Lin. Ft.	13	13	26
8" Ductile Metal Pipe	Lin. Ft.	12	12	24
Steel Sheet Piling Left-in-Place	Sq. Ft.	79	—	79
Clear Prot. Coating for Substr. Concrete	Sq. Ft.	10.5	10.5	21

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

APPROVED: *H. Corbett*
 STRUCTURAL ENGINEER

JOB No.
 PW 990(3)

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

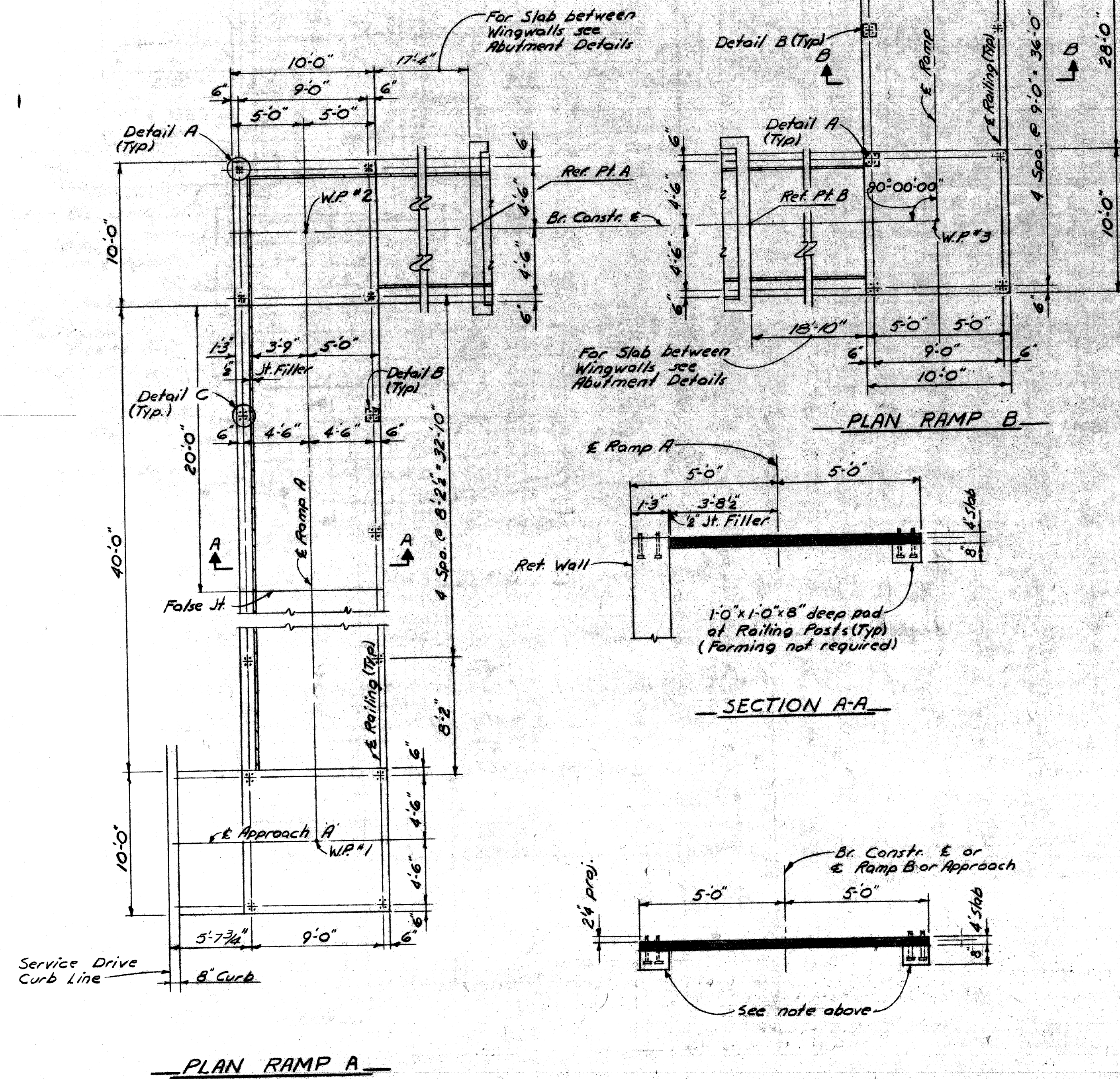
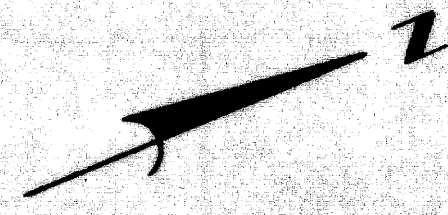
ABUTMENT DETAILS

CITY OF DETROIT

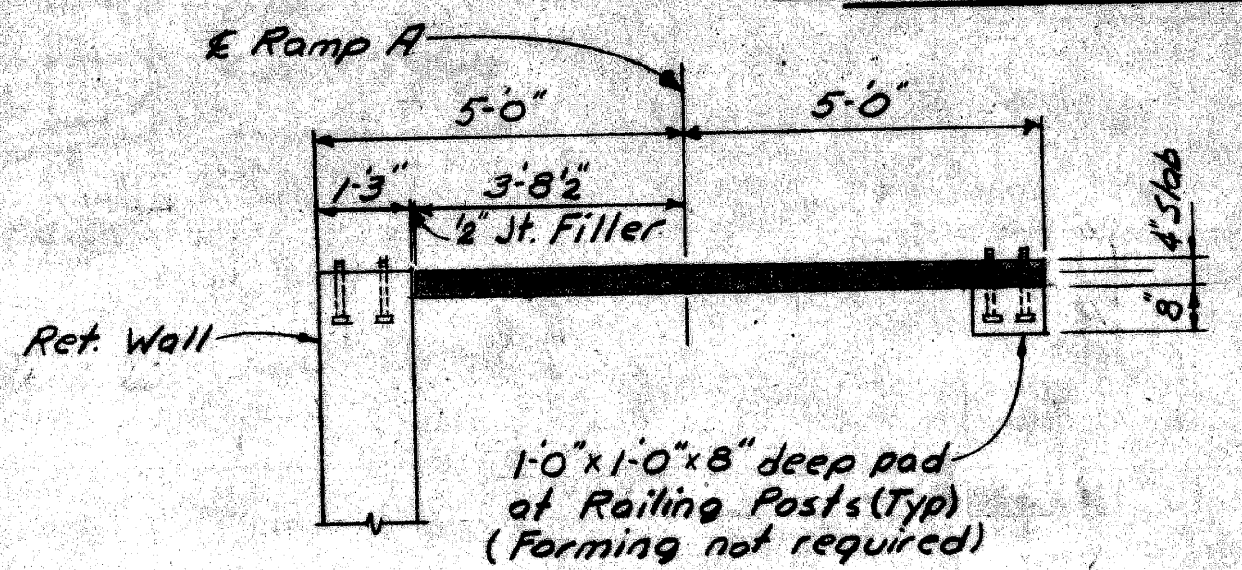
DESIGNED BY: Locher 2-69
 CHECKED BY: Gering 1-69
 DRAWN BY: P.O. 2-69
 DATE: 9-16

NO.	DESCRIPTION	DATE	BY

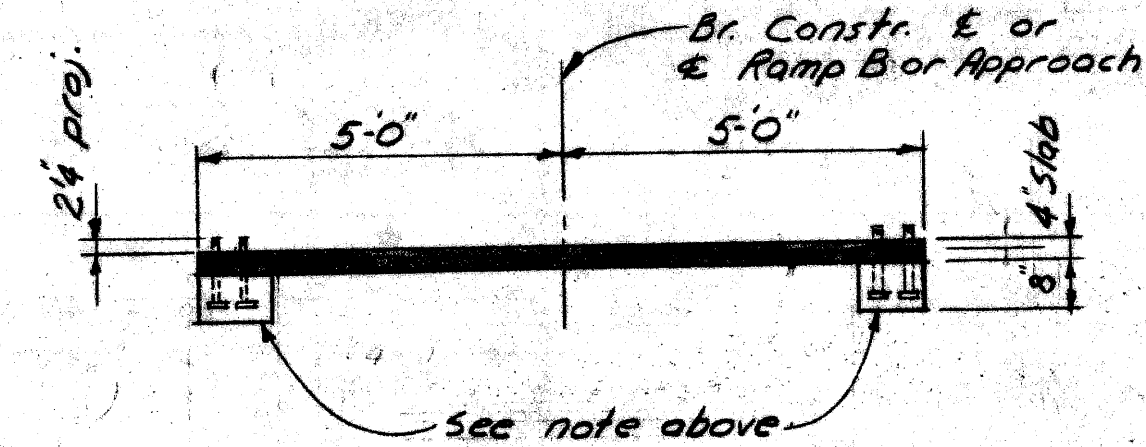
P06 of 82123J



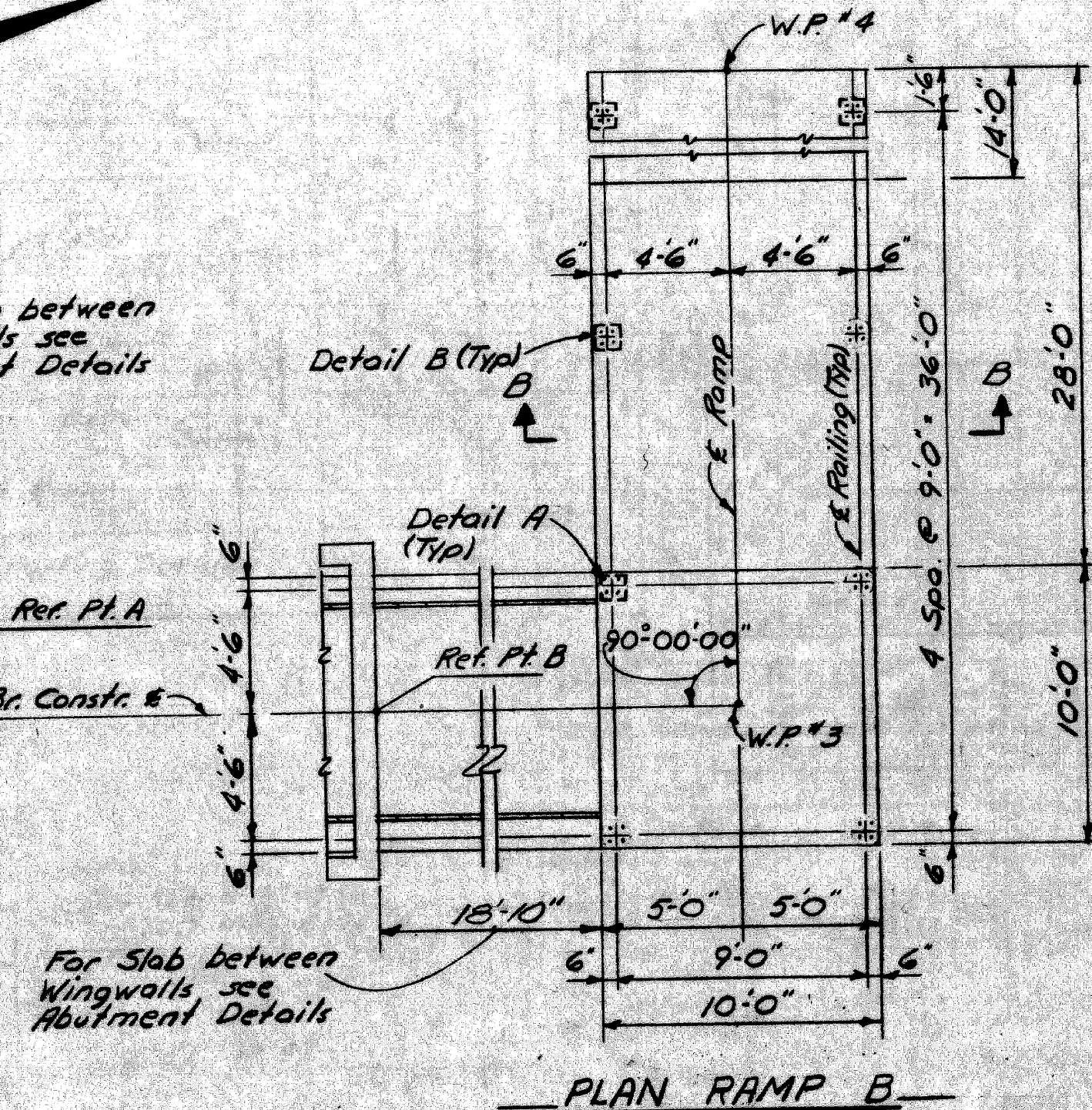
PLAN RAMP A



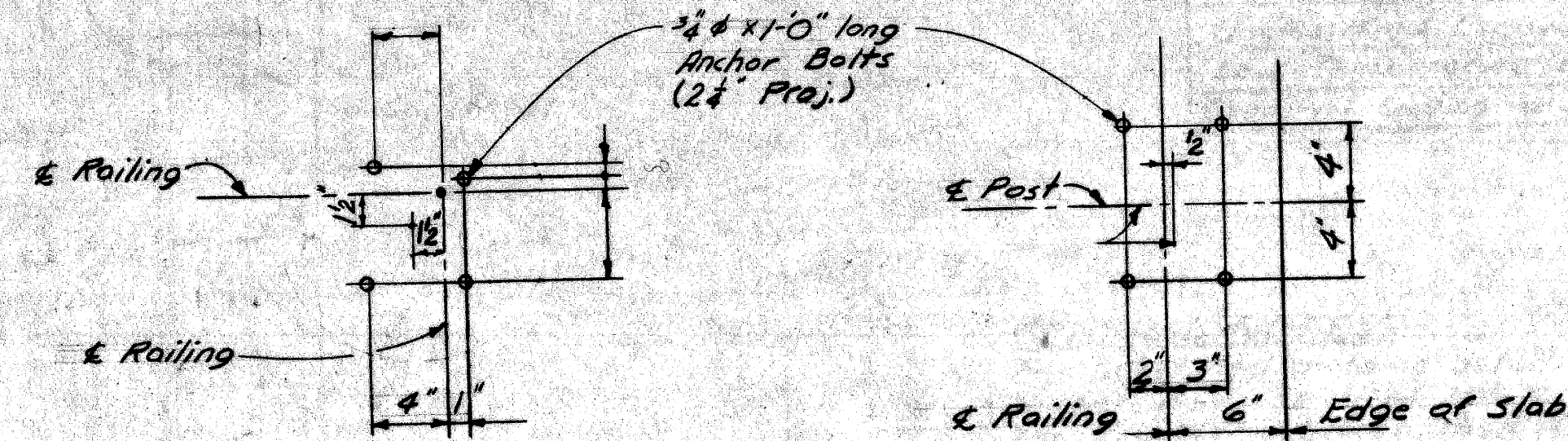
SECTION A-A



SECTION B-B

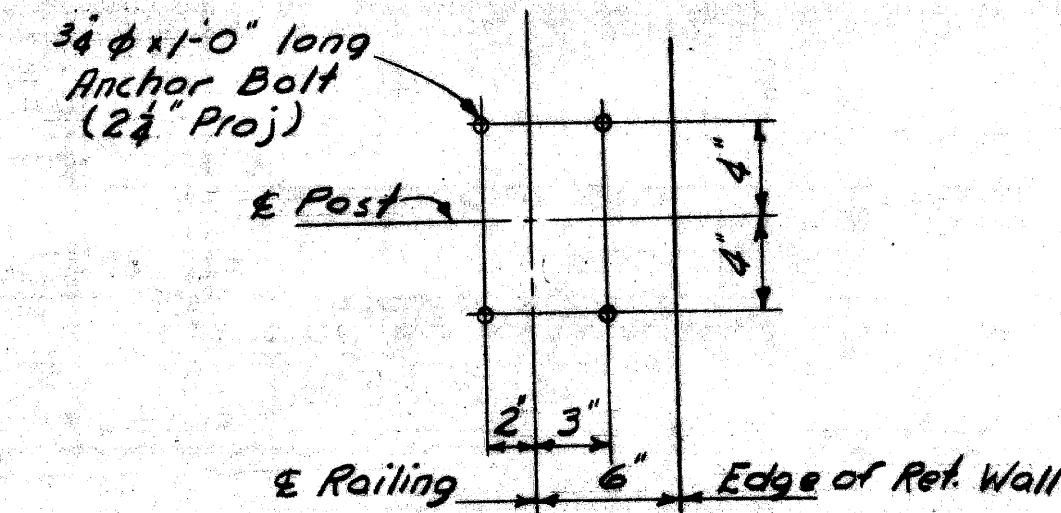


PLAN RAMP B

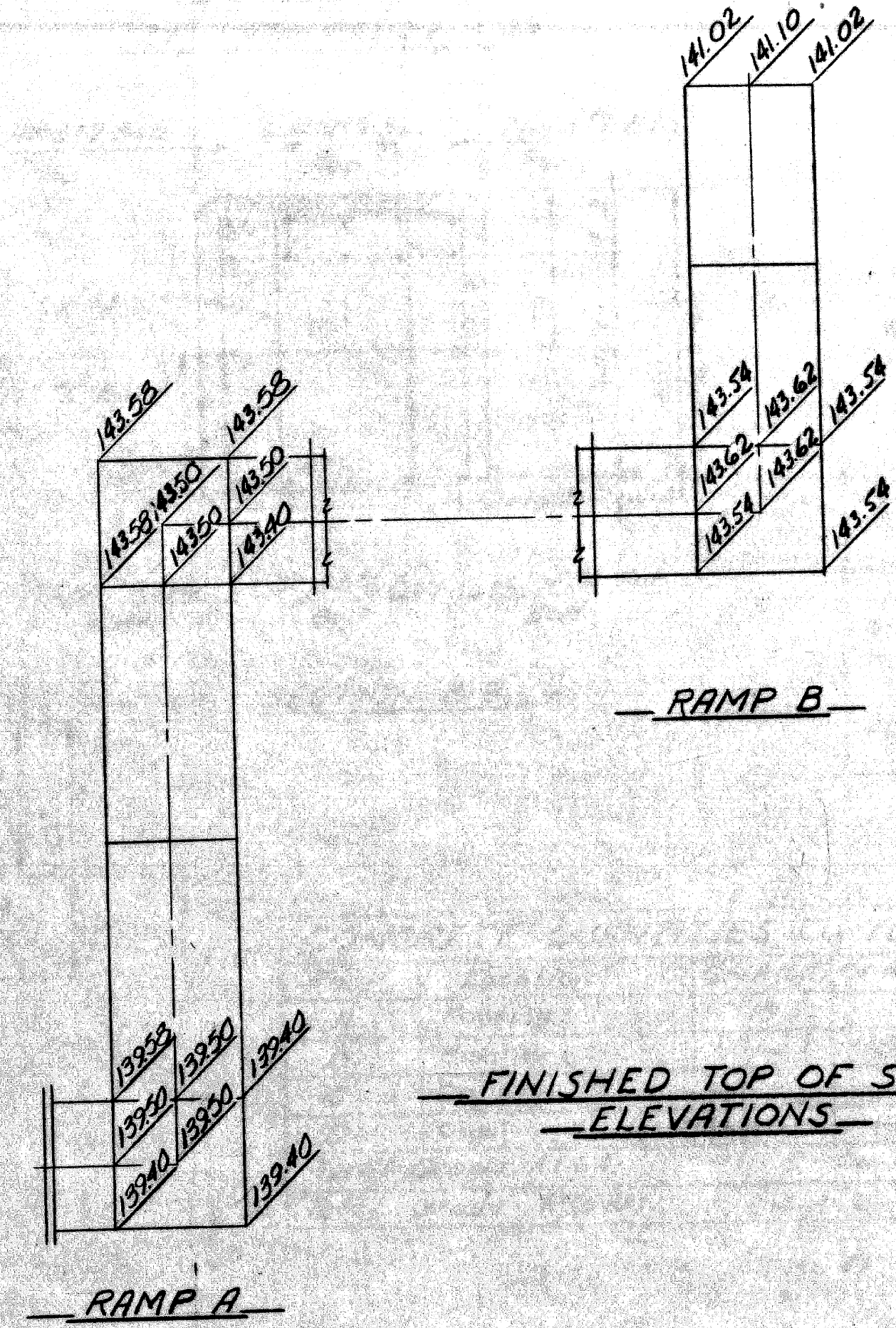


DETAIL A

DETAIL B



DETAIL C



FINISHED TOP OF SLAB ELEVATIONS

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 (6AA) Conc. - Substr. (Cu. Yds.)			
Location	Ramp A	Ramp B	Total
Ramp Slabs	9.2	6.9	16.1

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 ROOSEVELT AVE. PEDESTRIAN BRIDGE
 CROSSING THE JEFFRIES FREEWAY IN DETROIT

RAMP DETAILS

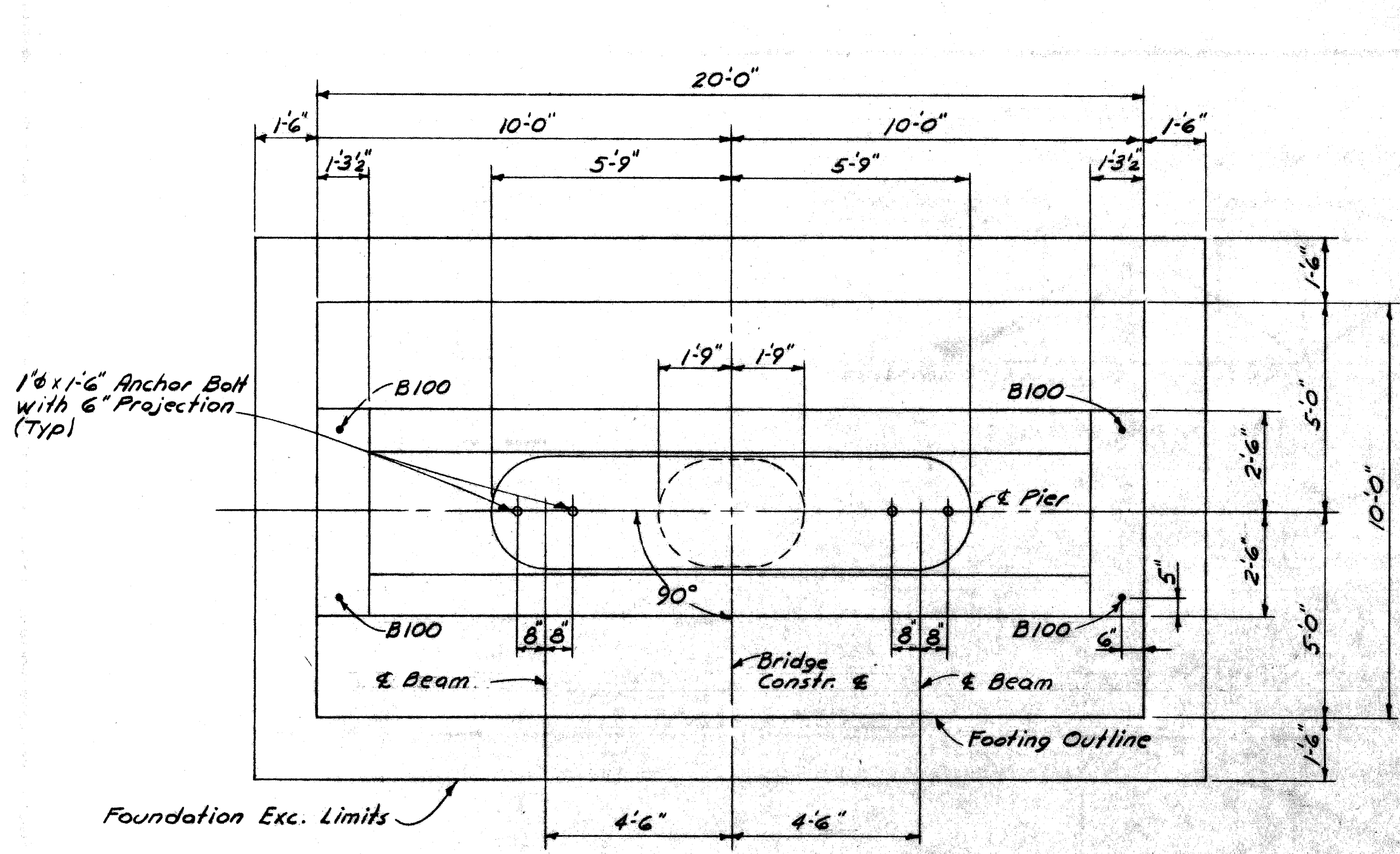
PLANS PREPARED BY
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 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: *J. Conrad* STRUCTURAL ENGINEER
 JOB No. PW 990(3)

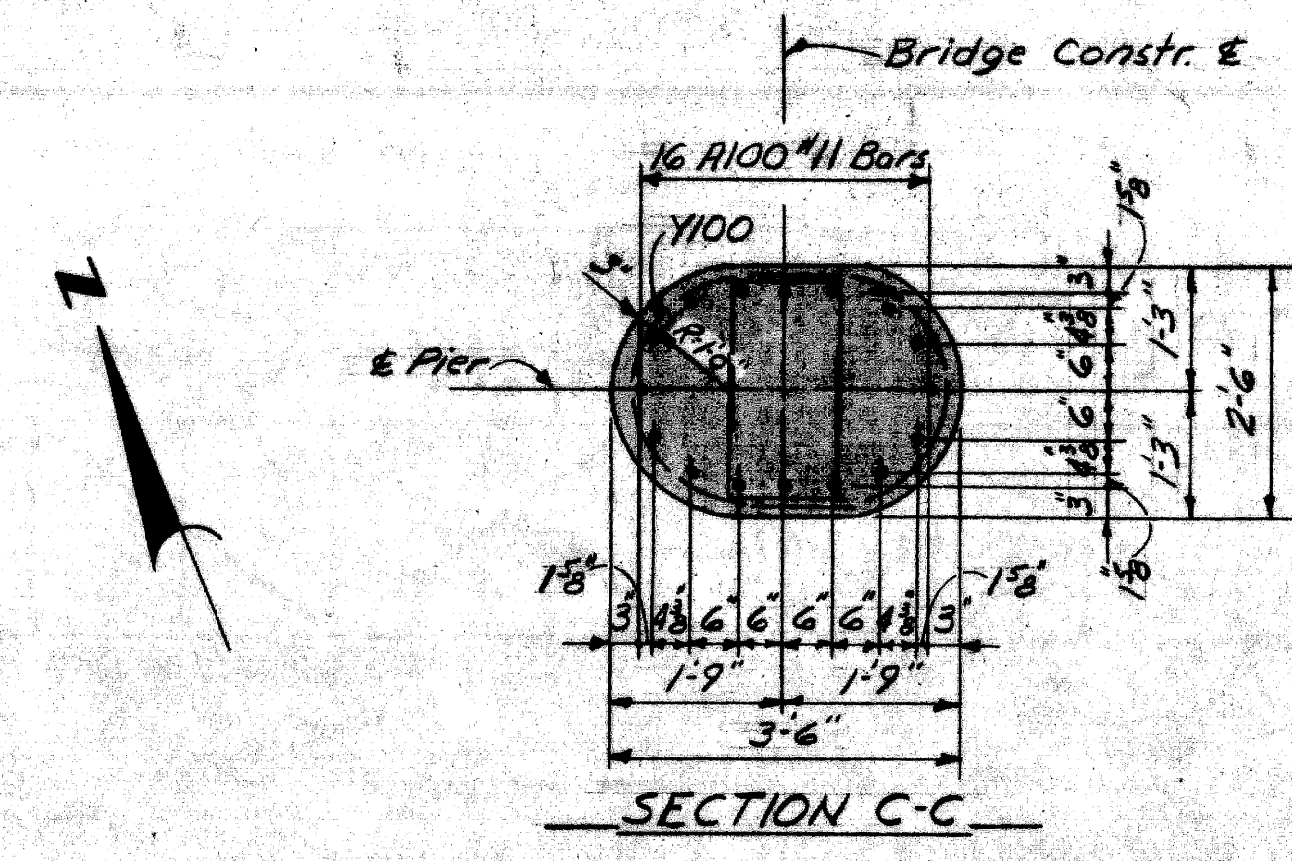
NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT
 SQUAD BOSS: Locher 2-69
 DRAWN BY: Searles 4-68
 CHECKED BY: F.D. 3-69
 SHEET 10 of 16

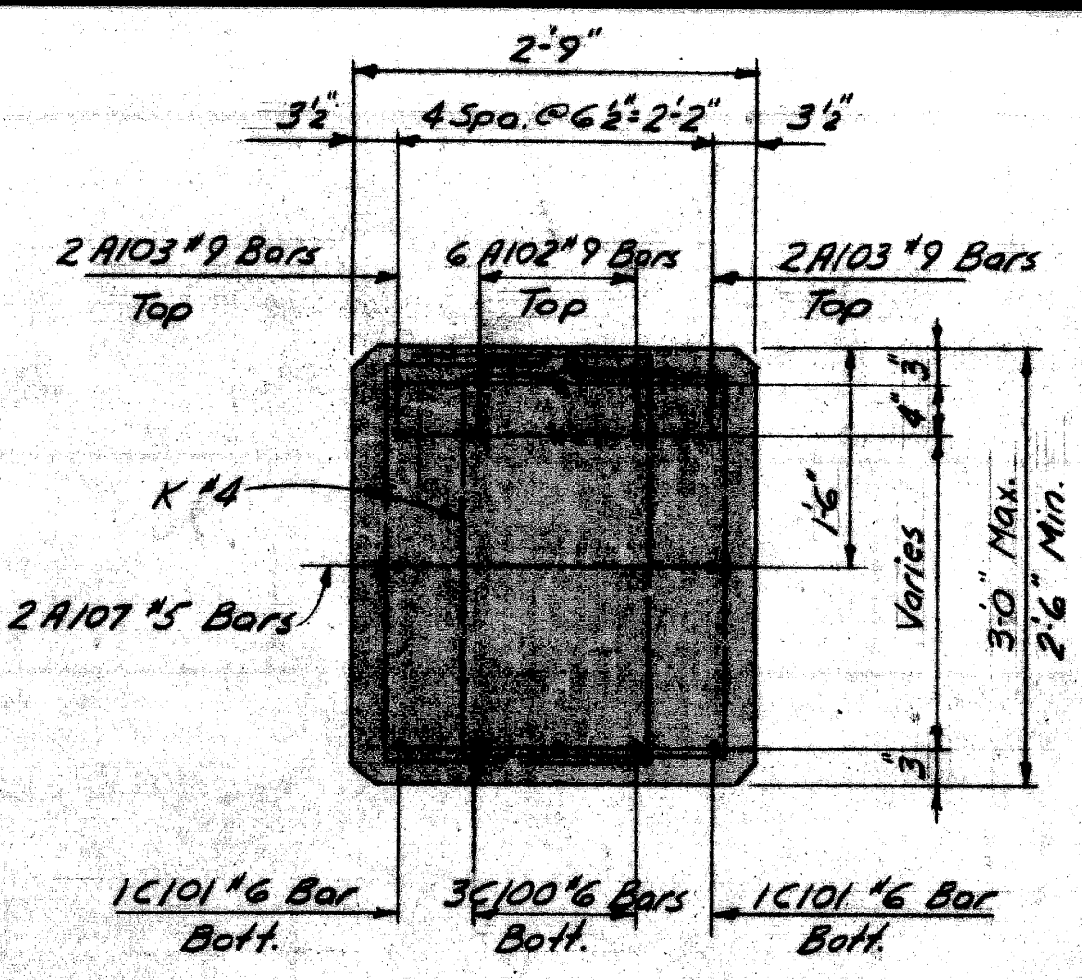
P06 of 82123J



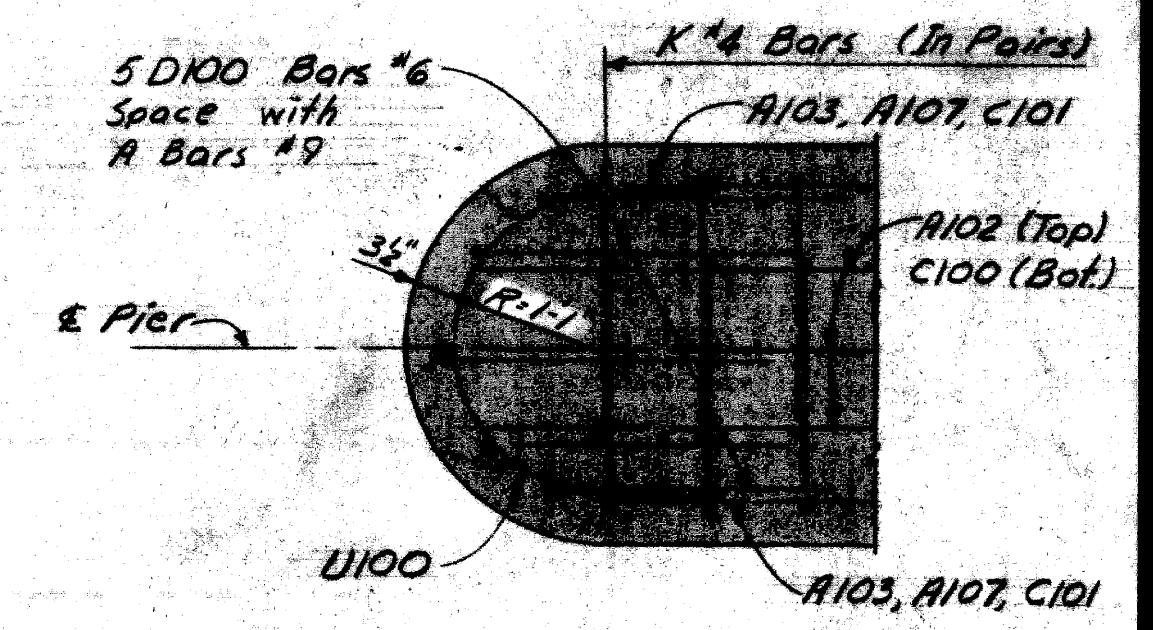
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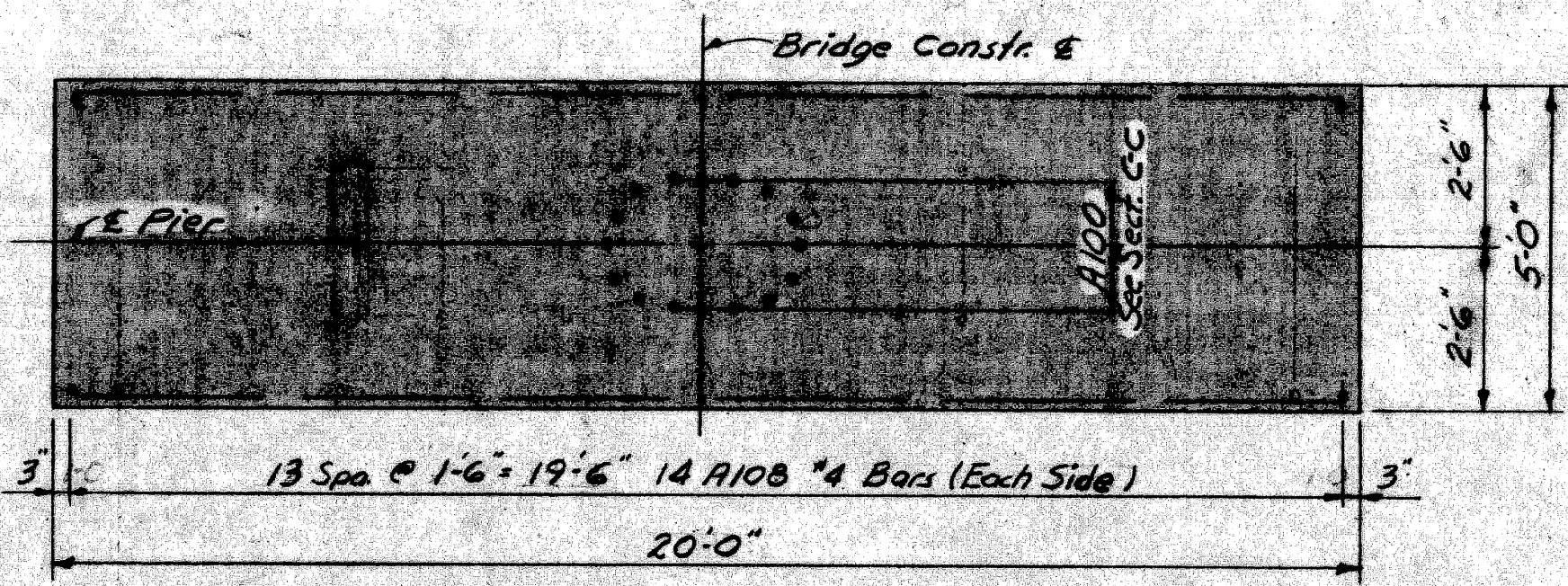
SECTION C-C



SECTION B-B



SECTION A-A



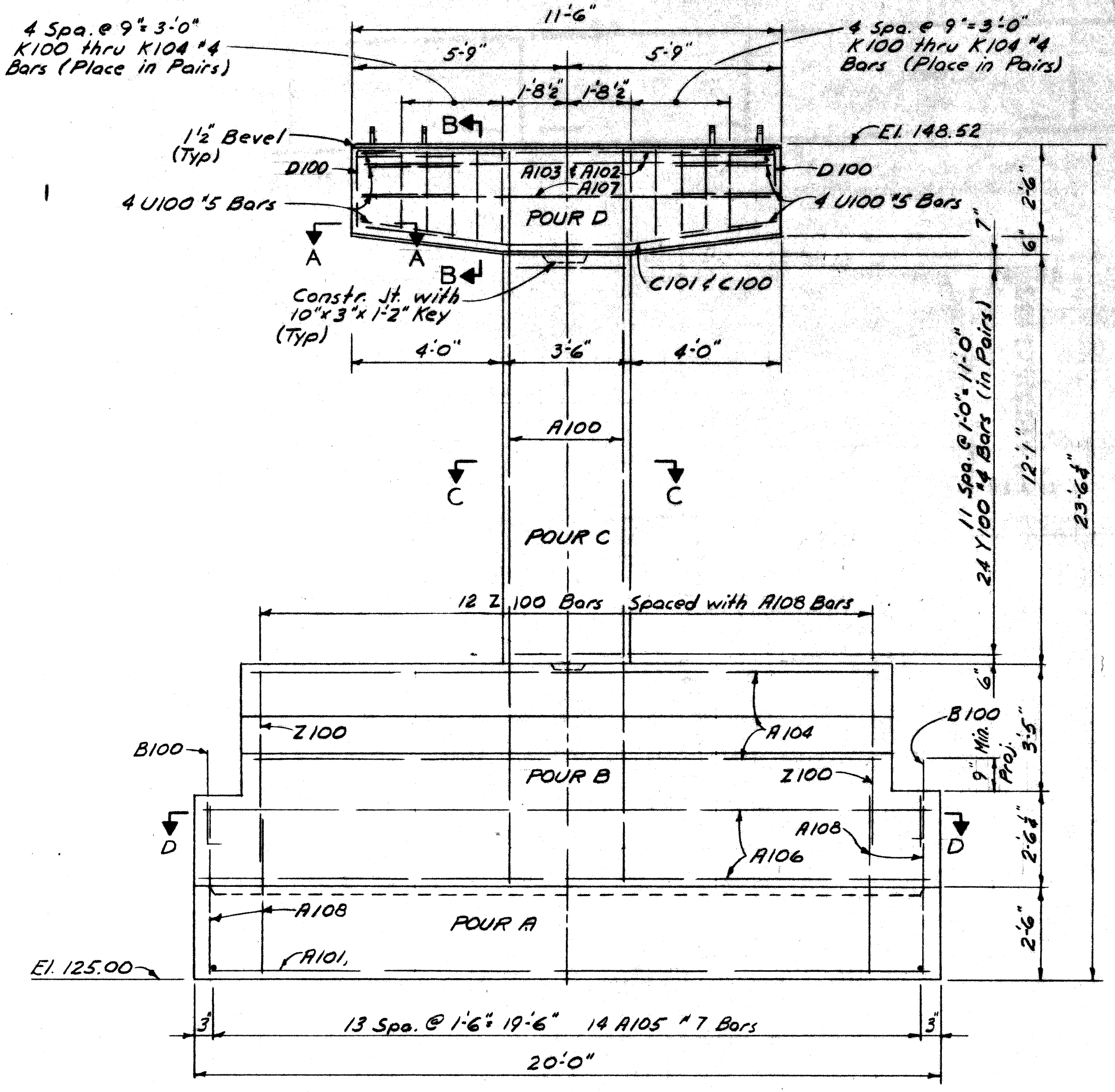
SECTION D-D

CONCRETE QUANTITIES CU. YDS.			
Pour	Location	Gr. A (GA)	Gr. A(GAA)
A	Footing	18.5	
B	Barrier		18.3
C	Column		3.3
D	Cap		3.2
Total Grade A (GA)		18.5	Cu. Yds.
Total Grade A (GAA)		24.8	Cu. Yds.

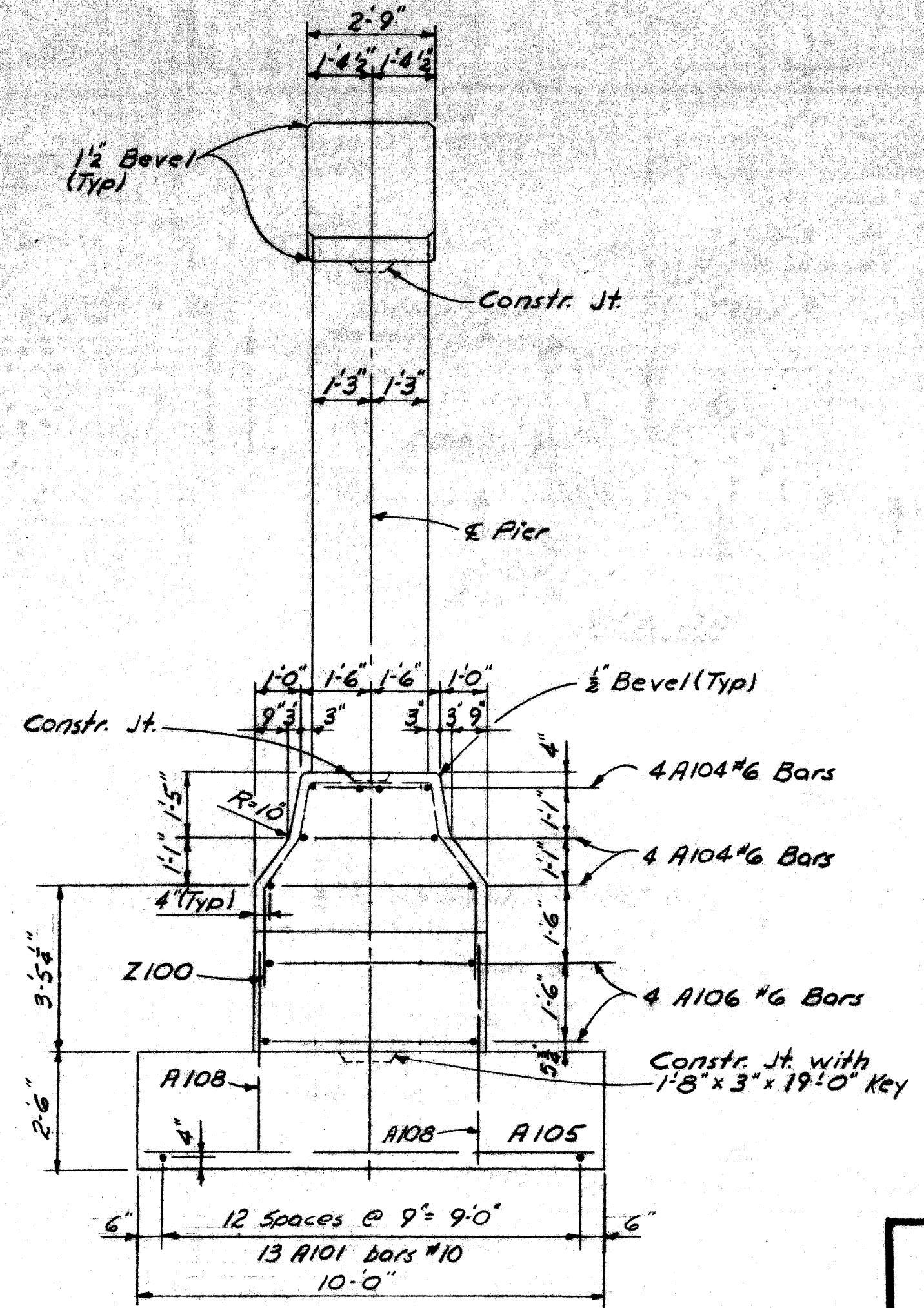
MISCELLANEOUS QUANTITIES		
Item	Unit	Amount
Unclassified Excavation	Cu. Yds.	36
Low Temperature Protection	Cu. Yds.	43
Clear Prot. Coating for Substr. Concr.	Sq. Yds	44

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.
 Maximum average foundation pressure D.L. only = 1800 Lbs./Sq. Ft.
 Maximum foundation pressure D.L. and L.L. = 2250 Lbs./Sq. Ft.
 Cover entire pier with clear protective coating for substructure concrete to 6" below finished grade.



ELEVATION



END VIEW

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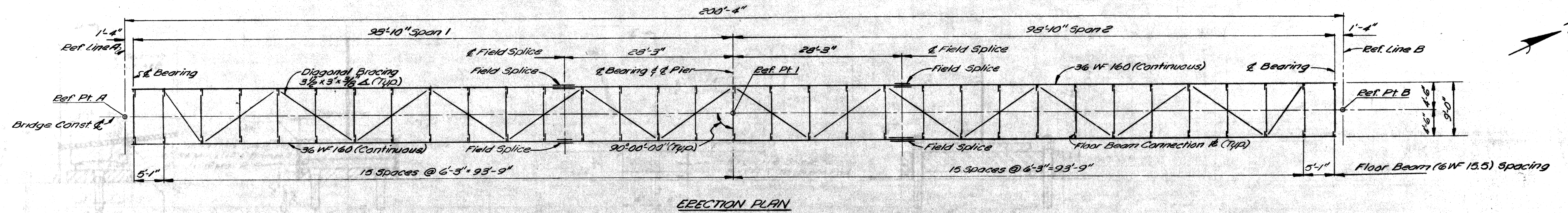
MICHIGAN DEPARTMENT OF STATE HIGHWAYS

ROOSEVELT AVE. PEDESTRIAN BRIDGE
 CROSSING THE JEFFRIES FREEWAY IN DETROIT

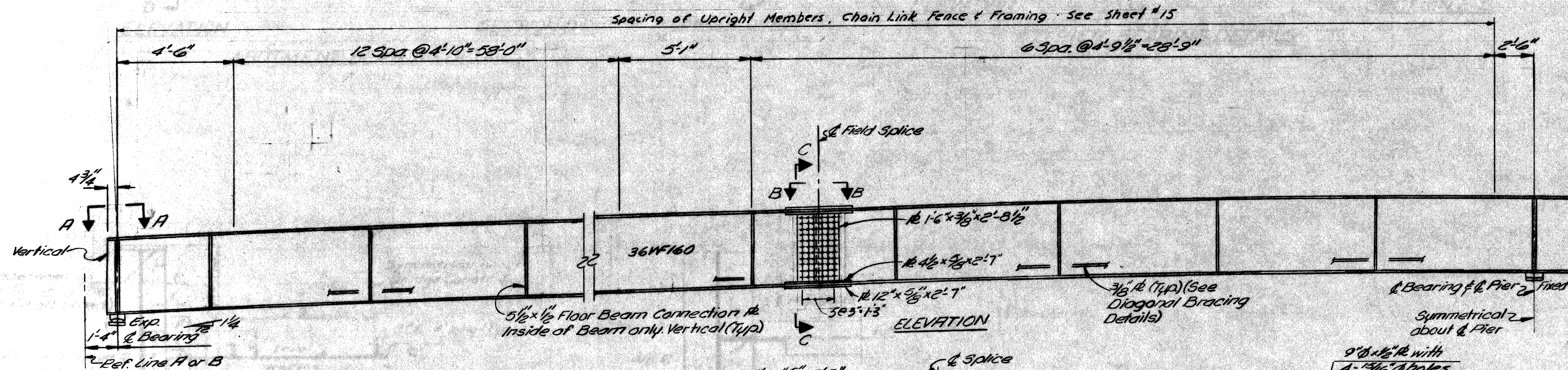
PIER DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

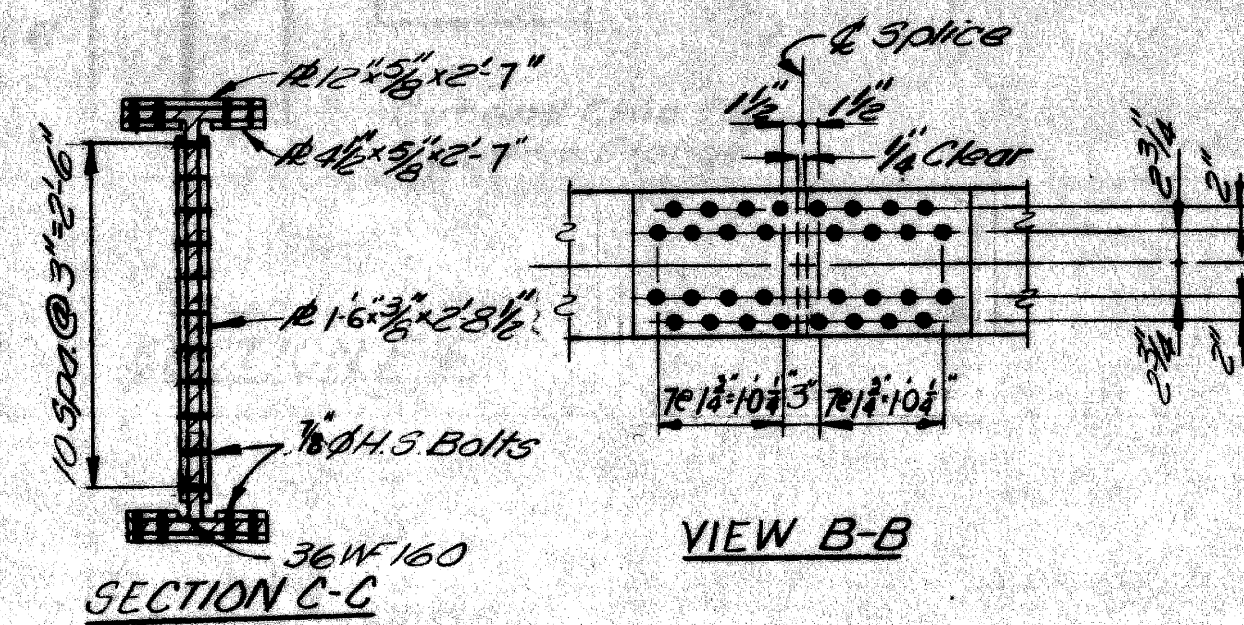
CITY OF DETROIT
 DRAWN BY: Lecher 2-69
 TRACED BY: Genovese 4-68
 CHECKED BY: WAL 2-69
 SHEET 11 of 16
 P06 of 82123J



ERECTION PLAN

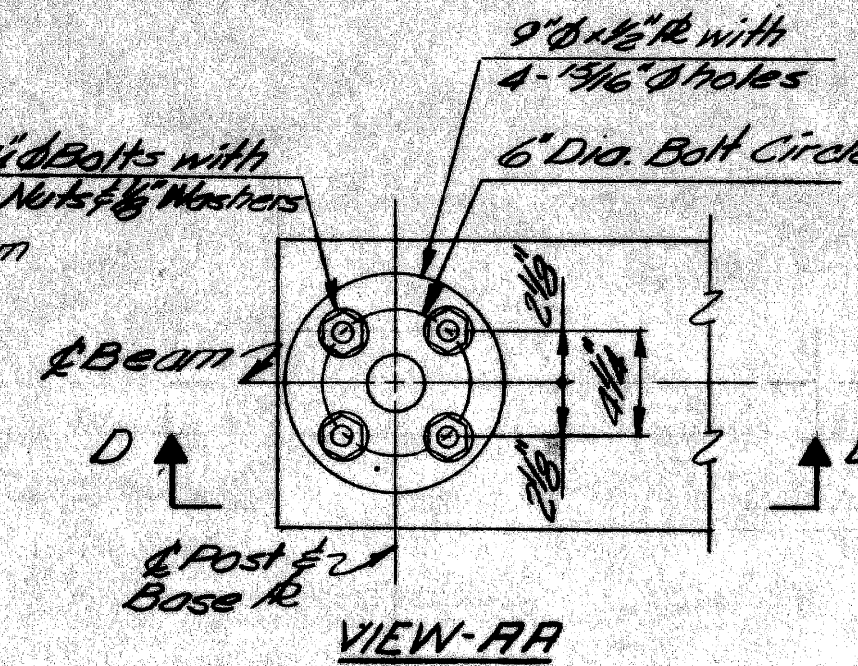


ELEVATION

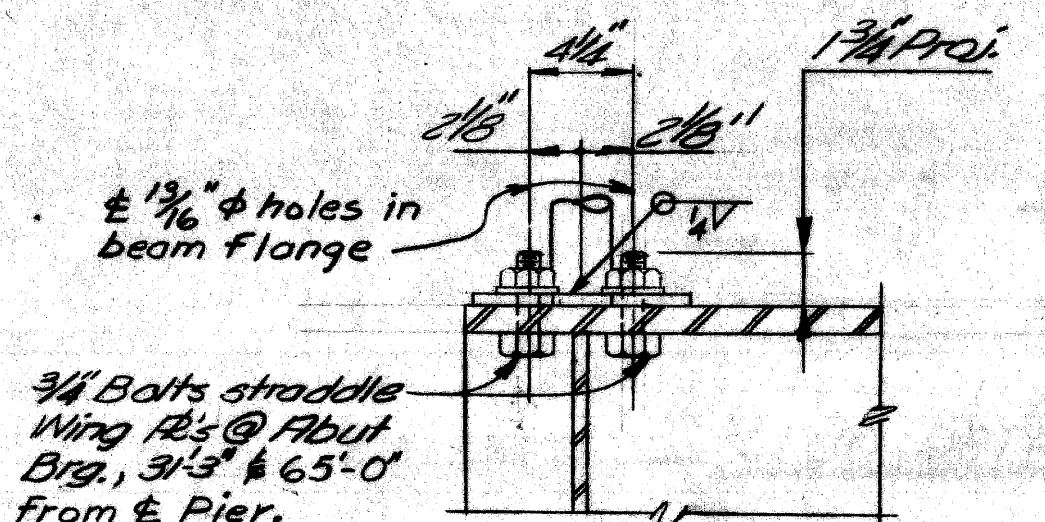


SECTION C-C

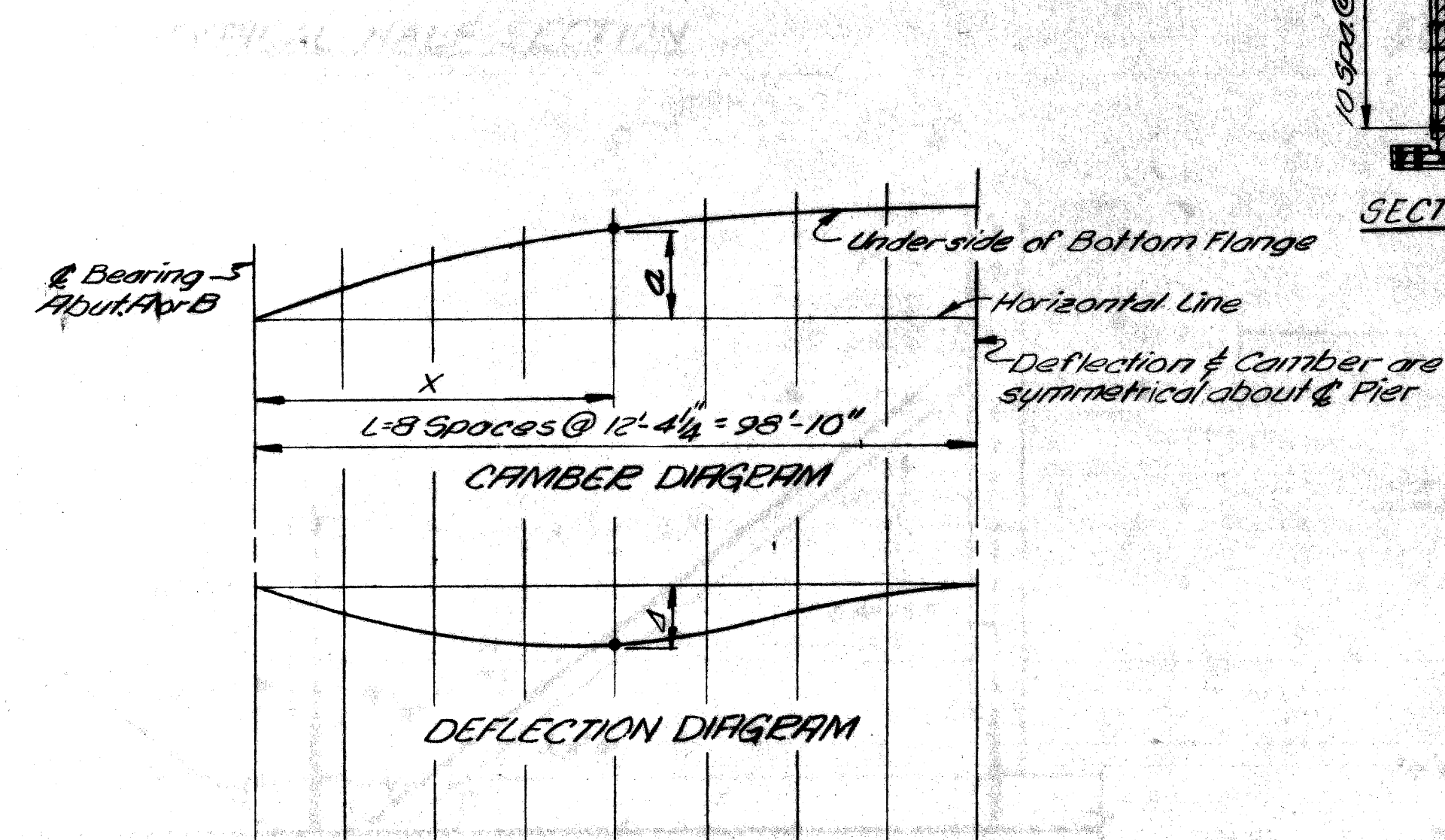
VIEW B-B



VIEW A-A



SECTION D-D
(TYPICAL ANCHOR FOR CHAIN LINK FENCE TUBING)



1/2	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1
a	0	1'-2 1/2"	2'-3 1/2"	3'-1 1/2"	3'-9 1/2"	4'-3 1/2"	4'-7 1/2"	4'-10 1/2"	4'-10 1/2"
Δ B.M.Wt	0	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	0
Δ D.L.	0	3/8"	1 1/8"	1 3/8"	1 7/8"	2 1/8"	2 3/8"	2 7/8"	0

NOTE: Camber ordinate "a" includes allowance for vertical curve and ΔDL.
 Δ B.M.Wt = Deflection due to weight of steel Beams only.
 ΔDL = Deflection due to weight of Structural Steel, Slab and Railing

GENERAL NOTES:
DESIGN: Michigan Department of State Highways Specifications for the Design of Highway Bridges-1958 edition and current MASHO Standard Specifications for Highway Bridges. (Live Load is 55ksp with Alternate Live Load of one five ton truck plus impact)

FABRICATION: Michigan Department of State Highways Standard Specifications for Road and Bridge Construction-1967 edition

SHOP CONNECTION: Shop Connections shall be welded as shown on the Plans.

FIELD CONNECTION: Field Connections shall be bolted with 3/4 high strength bolts, except as noted. Field Splices shall be bolted with 3/8 high strength bolts.

CAMBER: The beams are to be cambered as shown. Camber is to be measured with the beam lying on its side. Allowable camber tolerance for rolled beams is 1/4. Heating is to be used, if necessary, to assure camber permanency within the above tolerance.

WELDING: Welding on tension flanges of beams will not be permitted unless such welding is shown on the plans or specified. Welding of other locations on the beams, 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.

MATERIAL: Structural Steel shall conform to the requirements of the current specifications for Structural Steel, Unpainted, A.S.T.M. Designation A588

Steel, anchor bolts, may be A.S.T.M. A307.
 Position Dowels and Anchor Bolts (including nuts and washers) shall be galvanized in accordance with A.S.T.M. Designation A153.
 All steel material used for bearings with exception of portion welded to beams, shall be galvanized in accordance with A.S.T.M. Designation A153. Galvanizing shall be applied after fabrication of bearing. Mill scale and foreign material shall be removed prior to galvanizing.

QUANTITIES
 Elastomeric Bearing Pad 2 3/4 ft.
 Structural Steel-Furnishing and Fabricating* 15,900 lbs.
 Structural Steel-Erection* 15,900 lbs.

* The quantity "Structural Steel" includes metal parts of Armored Negretite Joints, Drain Frames and Gates consists of:
 Steel 75,800 lbs.
 Bronze 100 lbs.
 Total 75,900 lbs.

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 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS
 APPROVED: J. J. Carver
 STRUCTURAL ENGINEER

JOB No.
 PW 990(3)

Work This Street with Street 13# 15

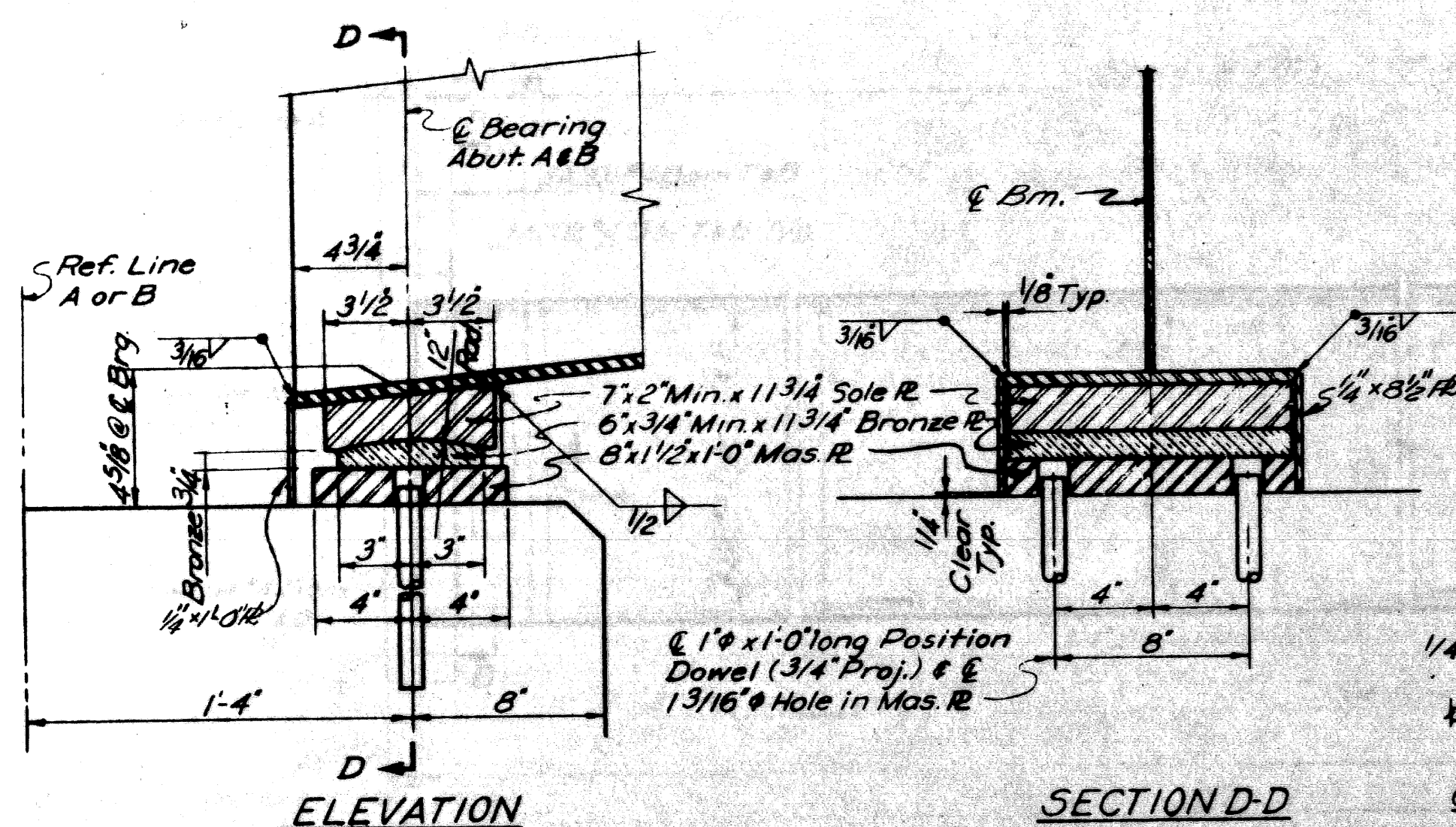
MICHIGAN DEPARTMENT OF STATE HIGHWAYS

Roosevelt Ave. Pedestrian Bridge
 Crossing the Jeffries Freeway in Detroit

STRUCTURAL STEEL DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

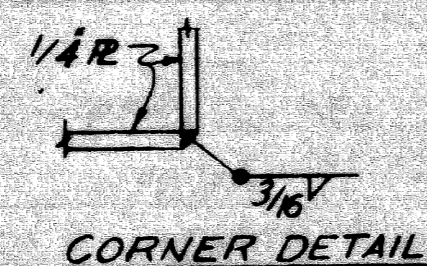
CITY OF DETROIT
 DRAWN BY: Locher 2-69
 DRAWN BY: L.B. Hart 2-69
 CHECKED BY: W.A.L. 2-69
 SHEET 12 of 16
 P06 of 82123J



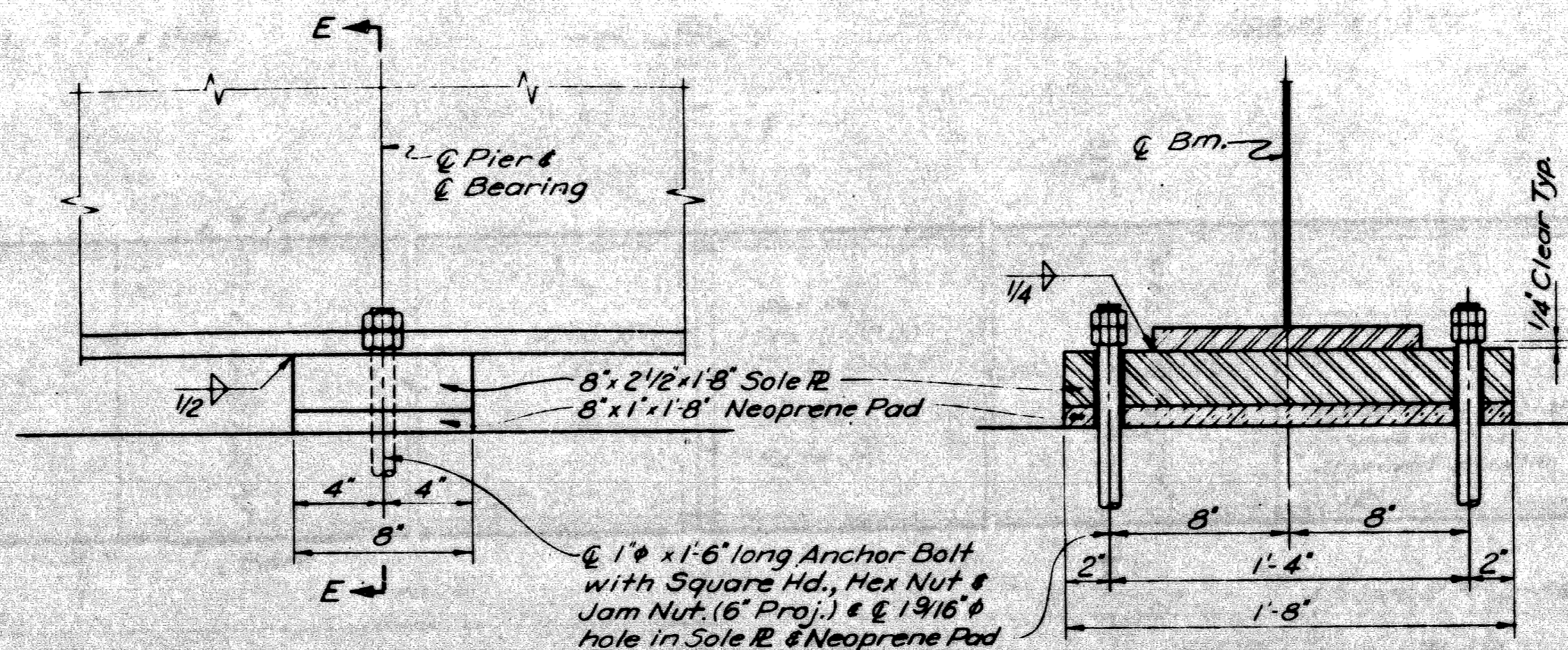
ELEVATION

SECTION D-D

ABUTMENT BEARING DETAILS



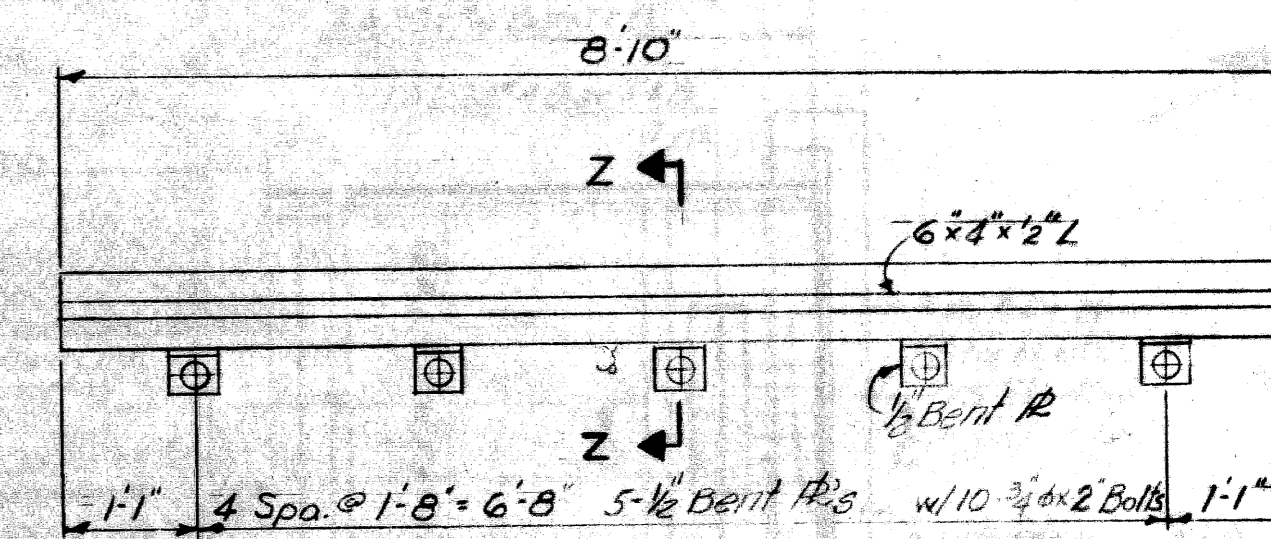
CORNER DETAIL



ELEVATION

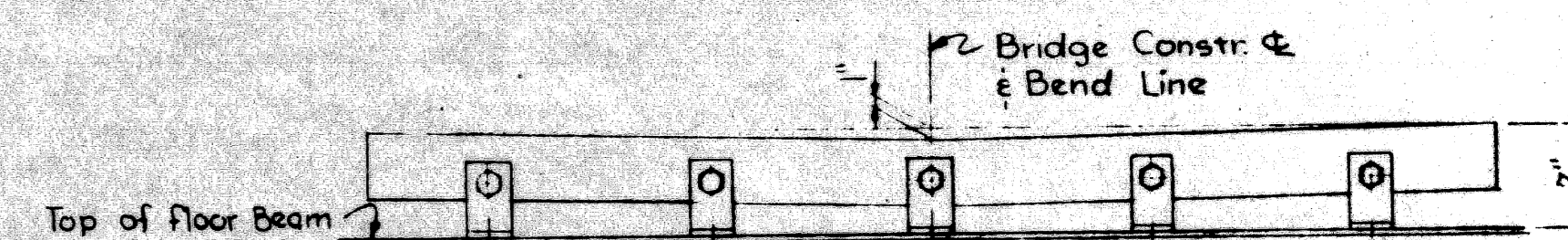
SECTION E-E

PIER BEARING DETAILS

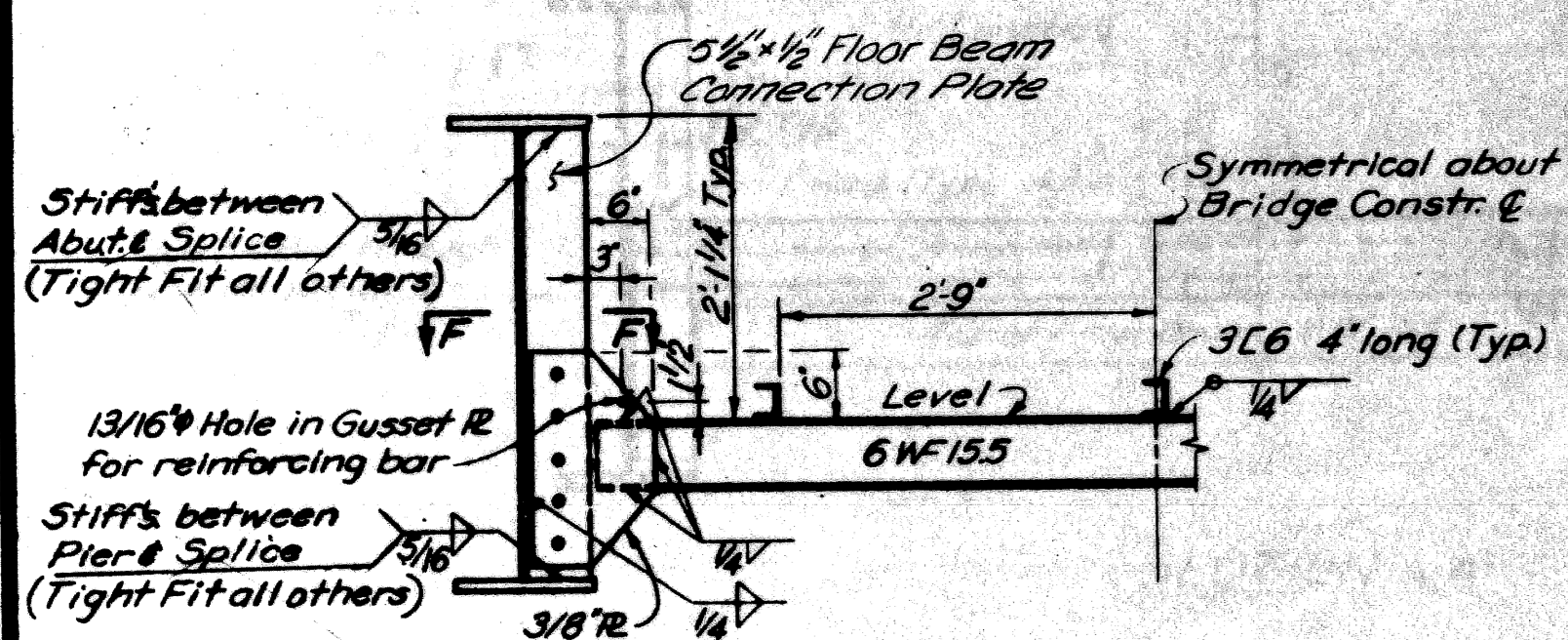


METAL EXPANSION JOINT - PLAN

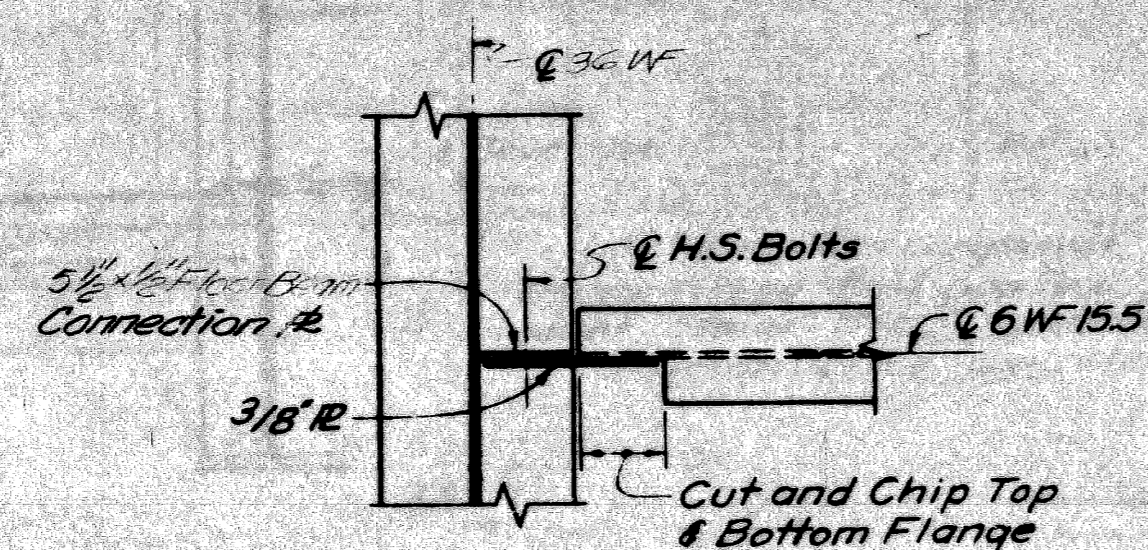
2 Required



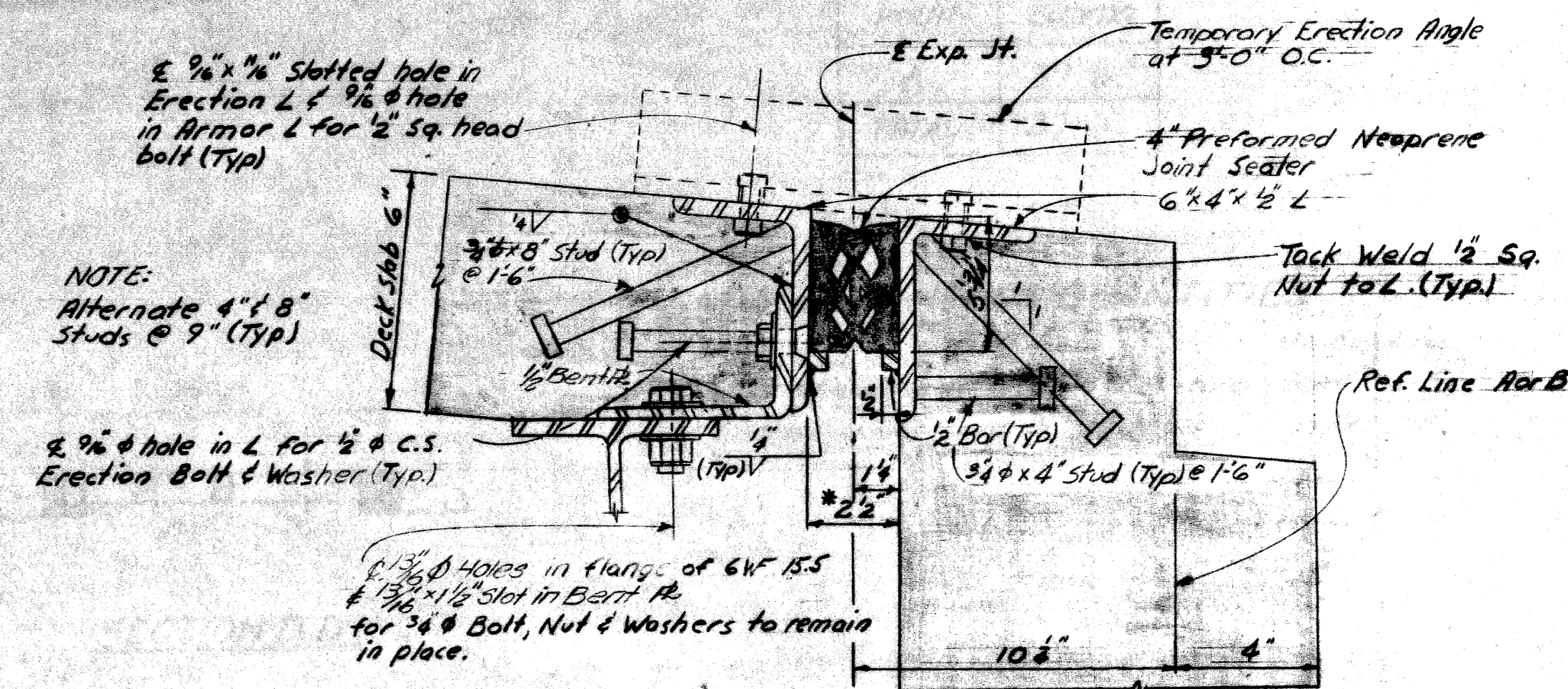
ELEVATION



TYPICAL HALF SECTION

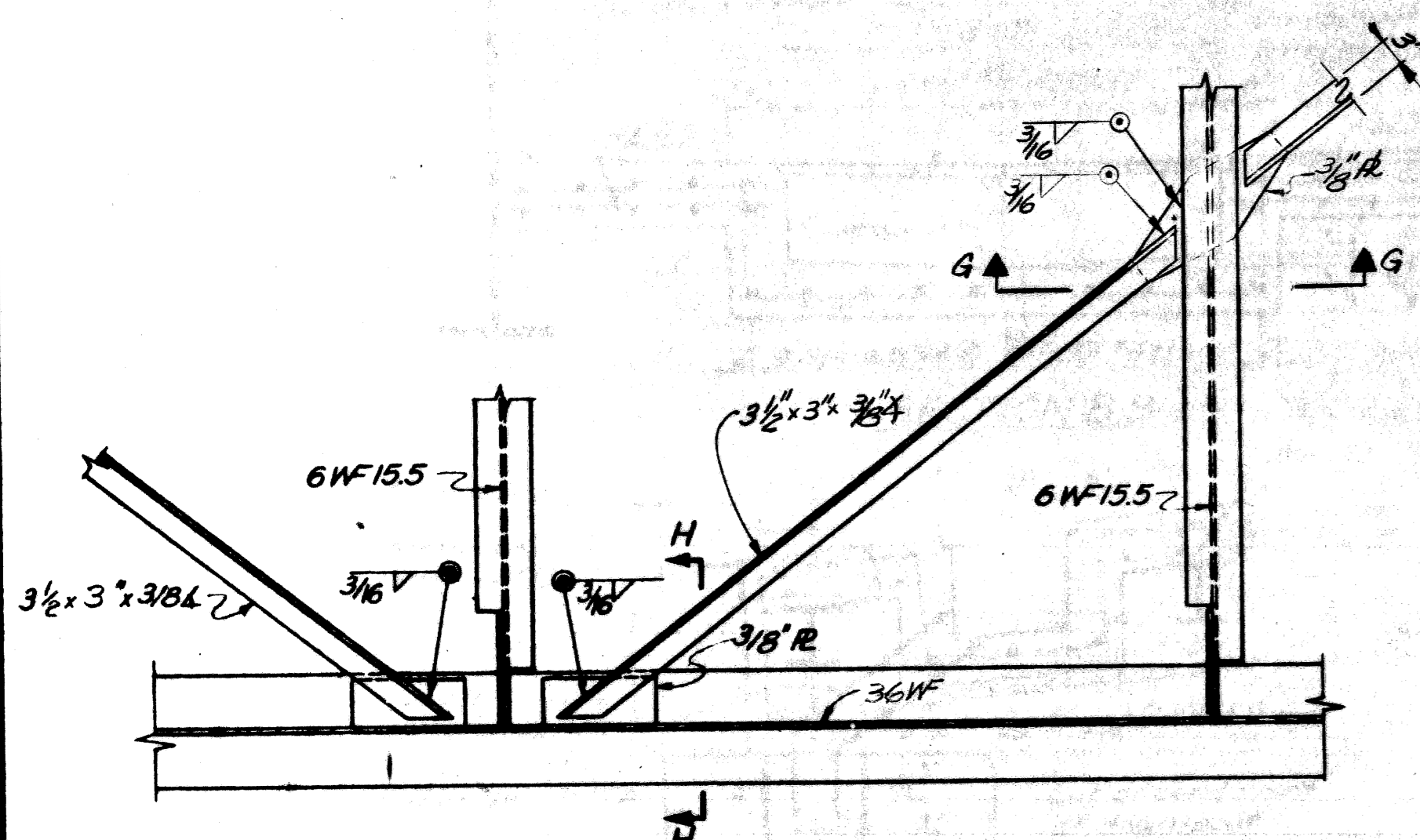


SECTION F-F

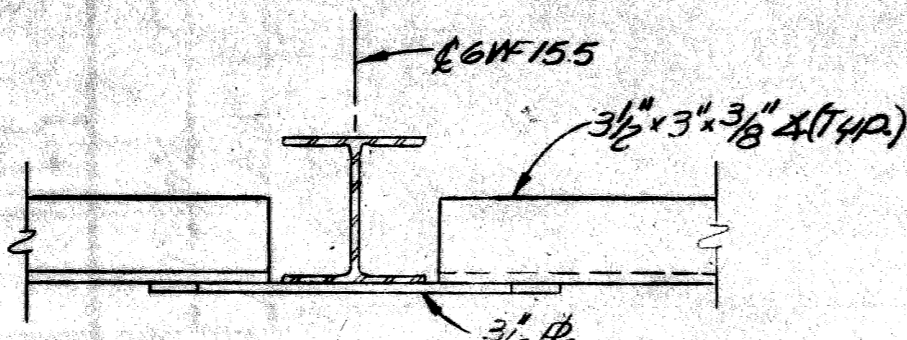


SECTION Z-Z

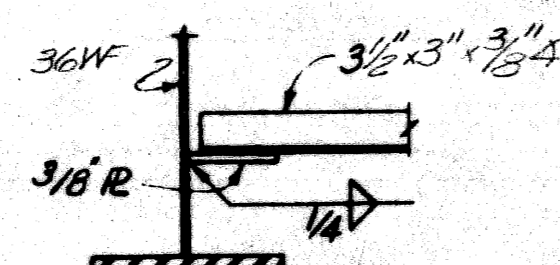
* Increase by 1/8 for each 10° of beam temperature below 60°F for each 70° of slab length or decrease by 1/8 for each 10° of beam temperature above 60°F for each 70° of slab length. (Slab length is measured at right angles to joint.)



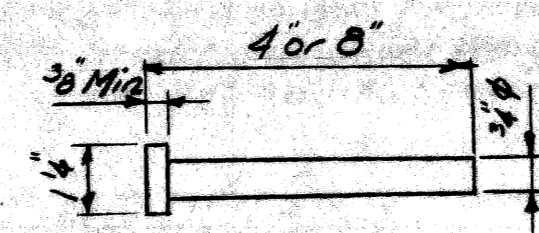
LATERAL BRACING DETAILS



SECTION G-G



SECTION H-H



STUD DETAIL

Work this Sheet with Sheet #12

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

ROOSEVELT AVE. PEDESTRIAN BRIDGE
CROSSING THE JEFFRIES FREEWAY IN DETROIT

STRUCTURAL STEEL DETAILS

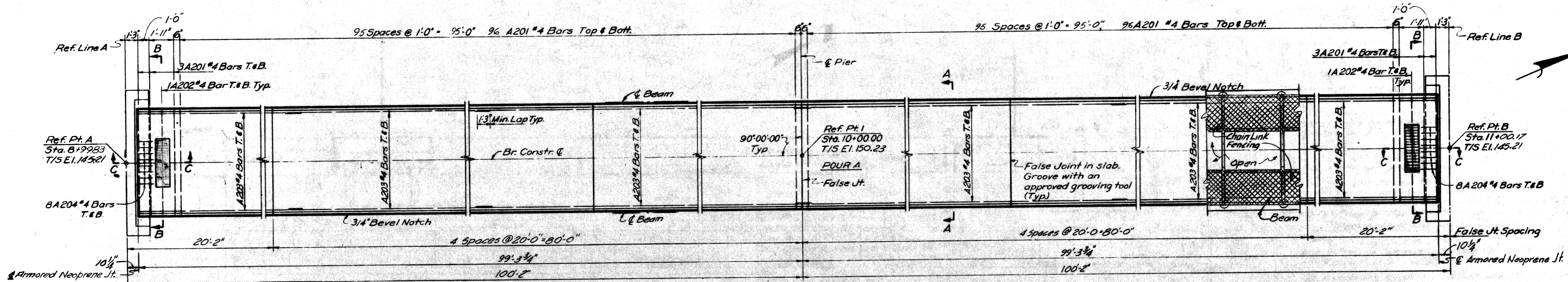
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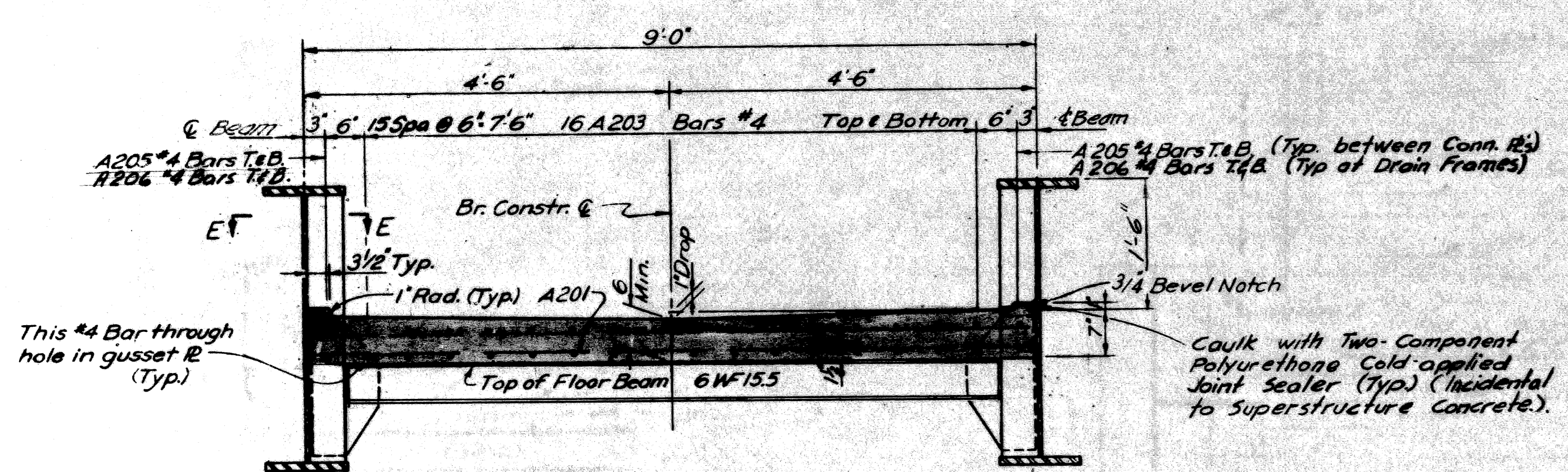
NO.	DESCRIPTION	DATE	BY

DATE	BY	REVISION
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2-69	KRAMER	2-69
2-69	WAL	2-69
2-69	WAL	2-69

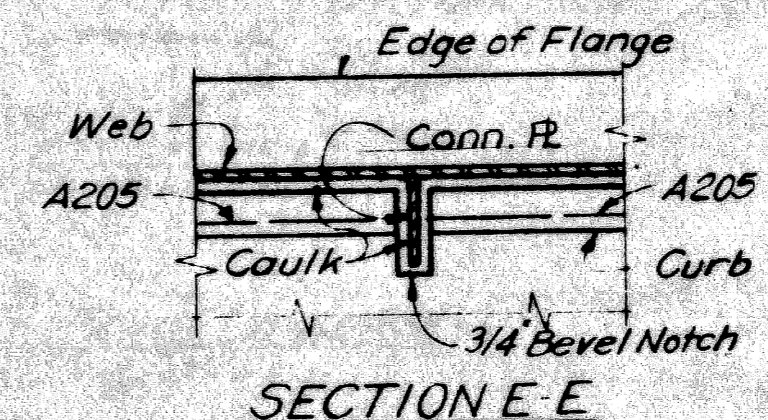
PO6 of 82123J



PLAN



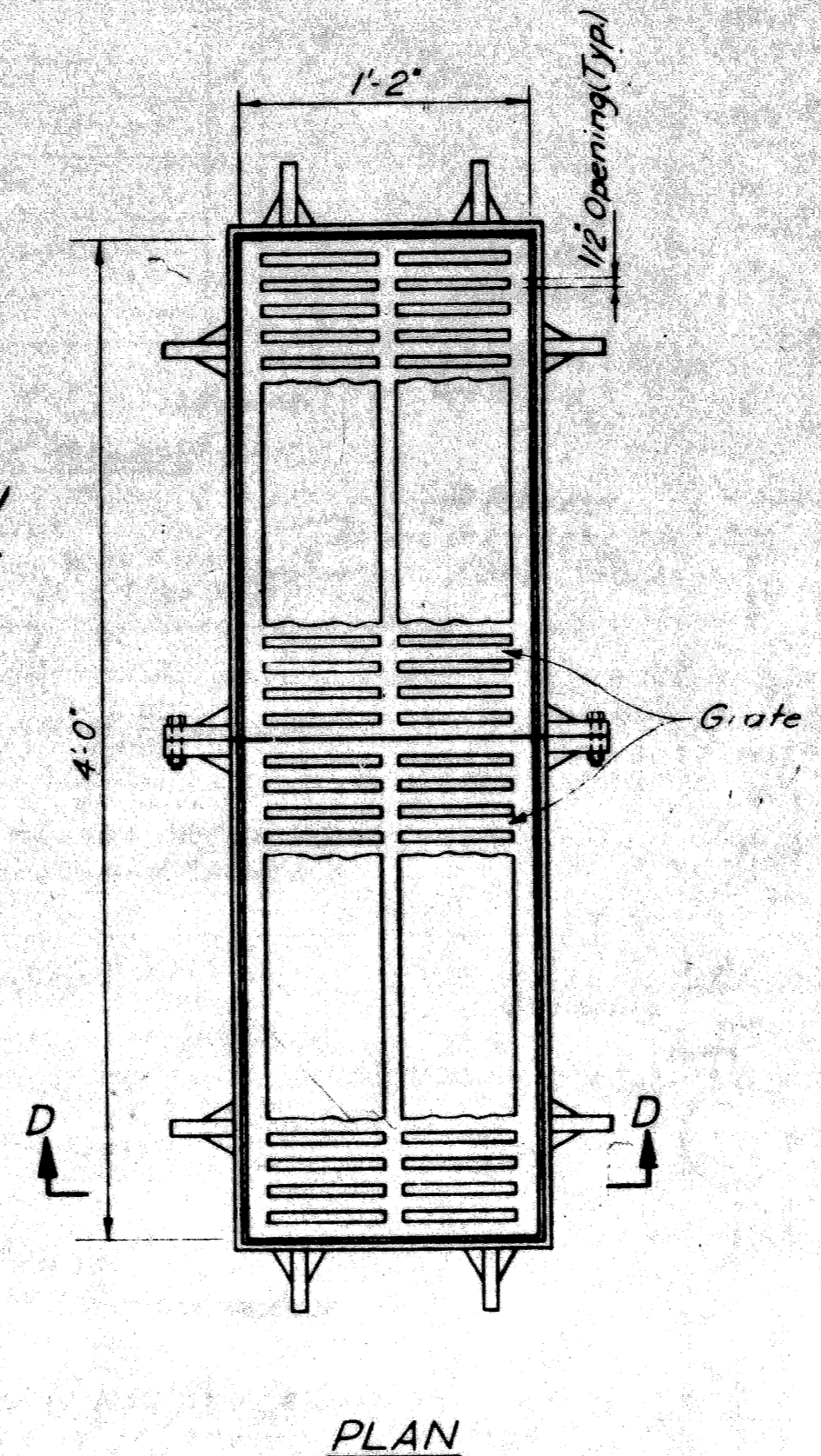
SECTION A-A



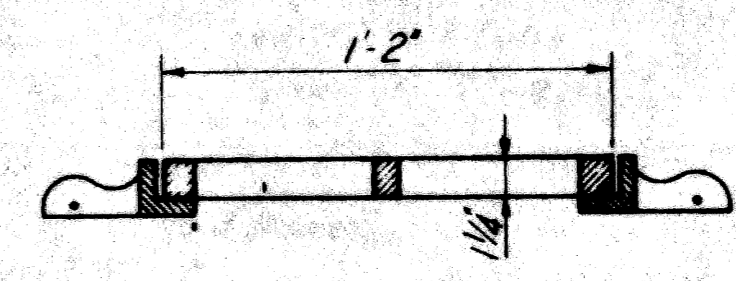
SECTION E-E

CONCRETE QUANTITIES GRADE A (6AA)	
POUR	CU. YDS.
A	37.0
TOTAL	37.0

MISCELLANEOUS QUANTITIES		
Item	Unit	Amount
Water Reducing-Retarding Admixture	Gals.	5
4" Preformed Neoprene Joint Sealer	Lin. Ft.	18



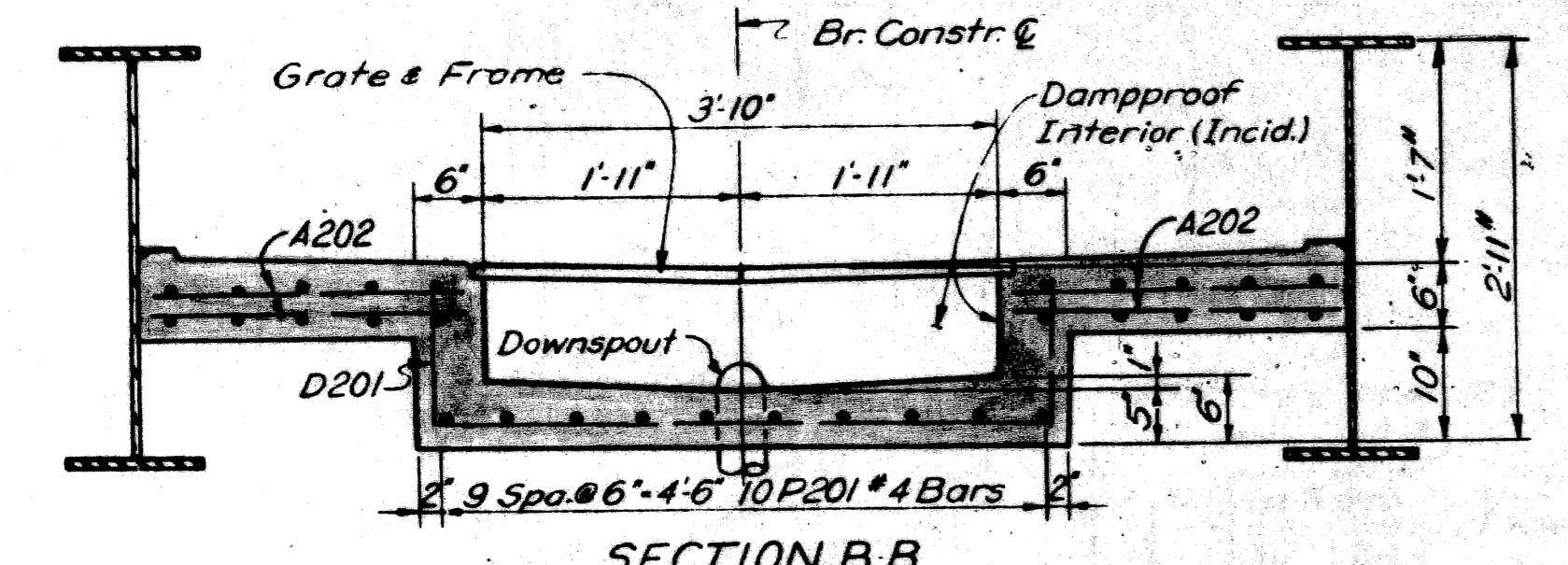
PLAN



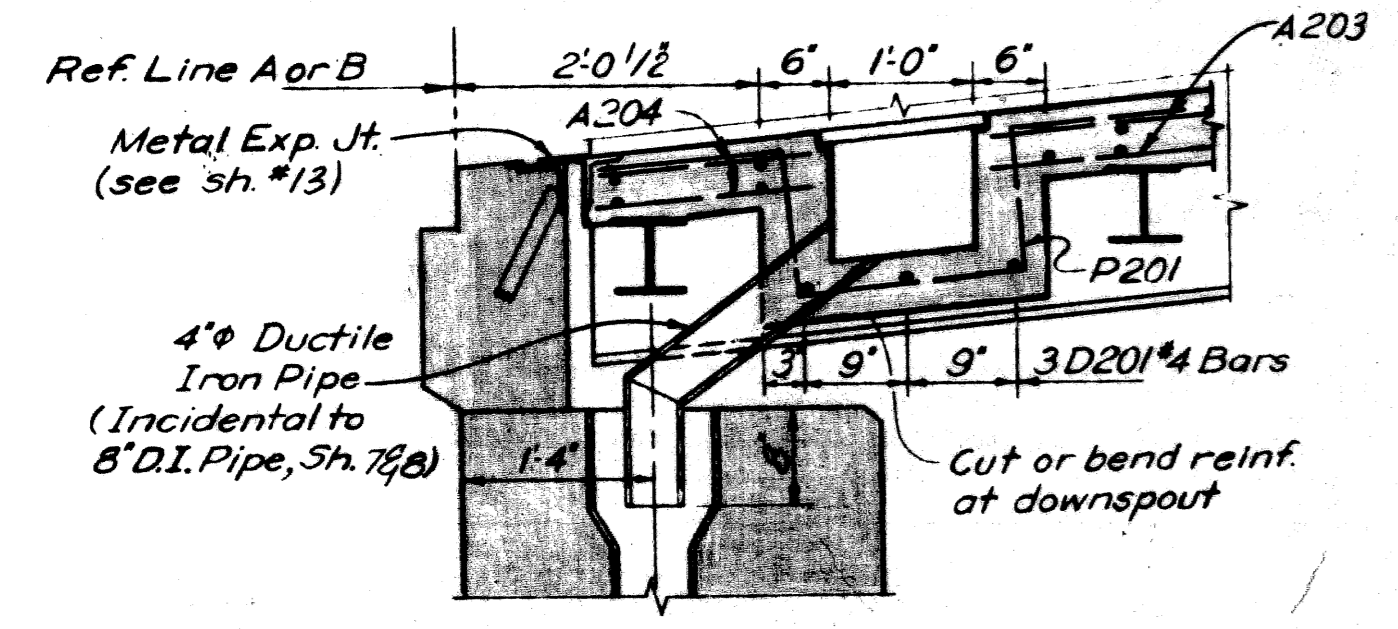
SECTION D-D

4 Frames with anchors and 4 Gratings are required. Material is to be Gray Iron conforming to A.S.T.M. Spec A48-56 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.

DRAIN FRAME & GRATING DETAILS



SECTION B-B



SECTION C-C

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APPROVED *H. Conant*
 STRUCTURAL ENGINEER

JOB No.
 PW 990(3)

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

ROOSEVELT AVE. PEDESTRIAN BRIDGE
 CROSSING THE JEFFRIES FREEWAY IN DETROIT

SUPERSTRUCTURE DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

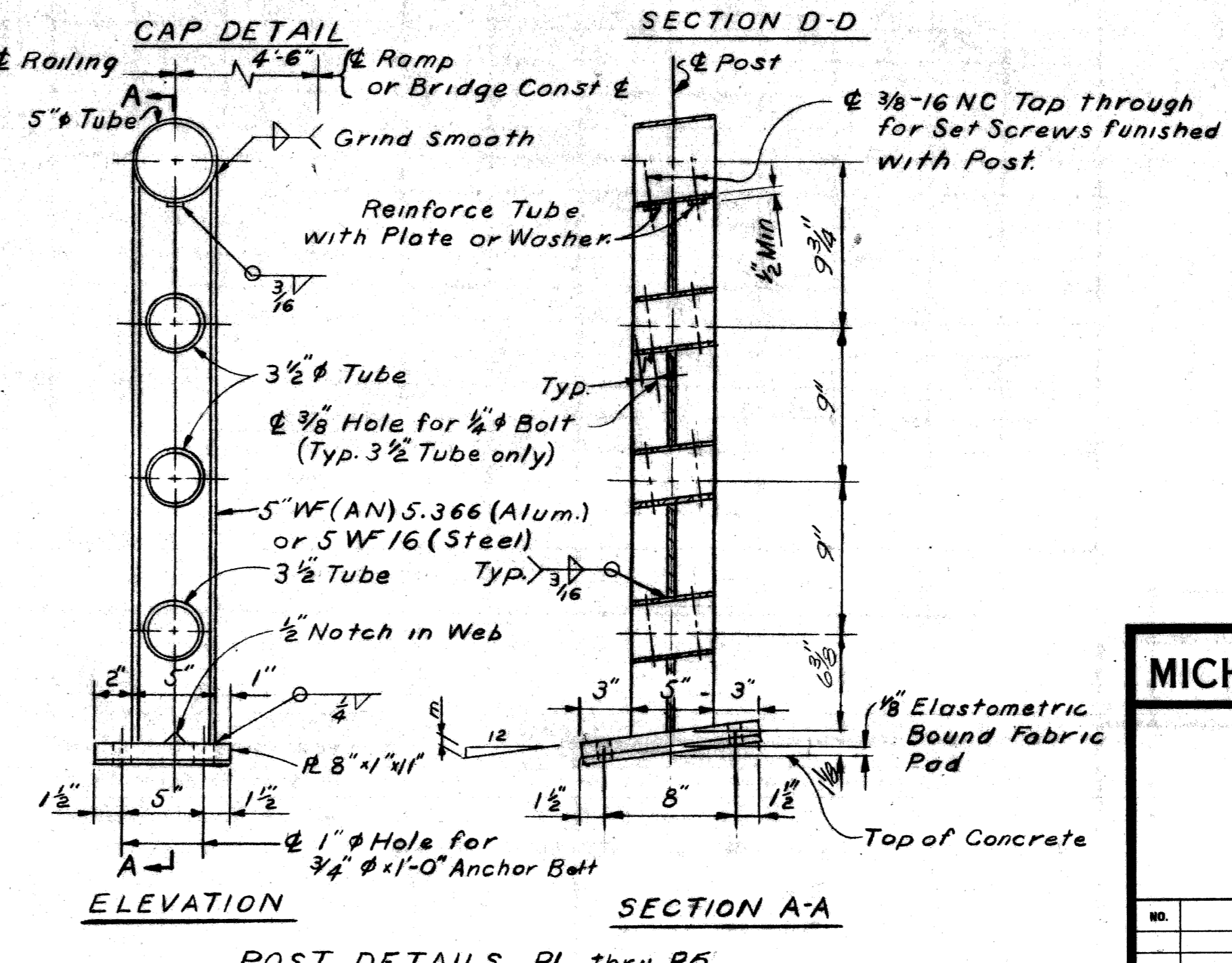
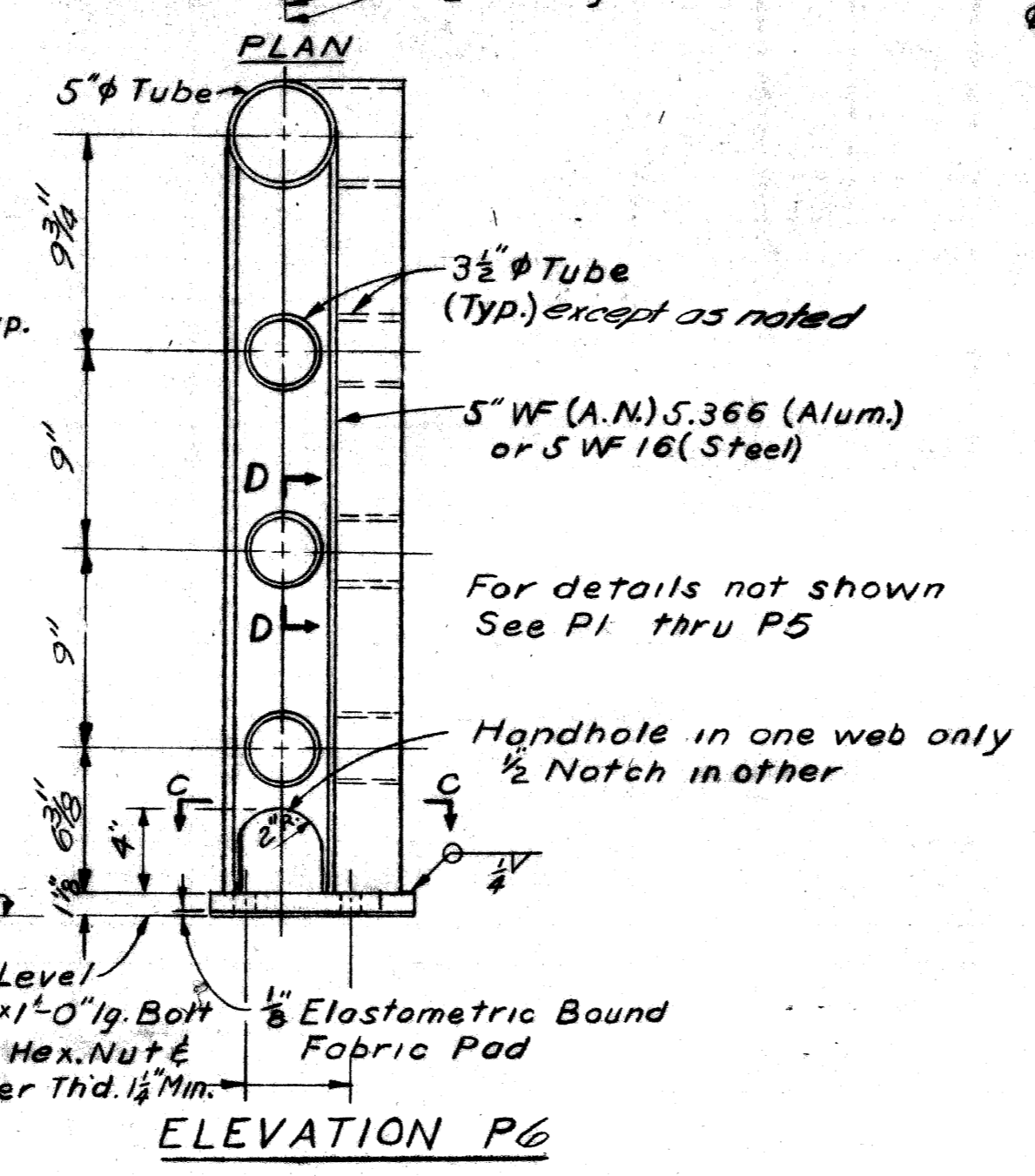
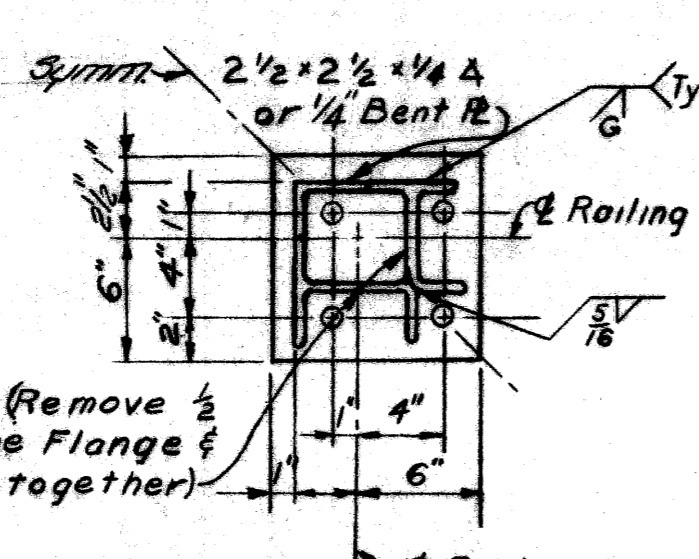
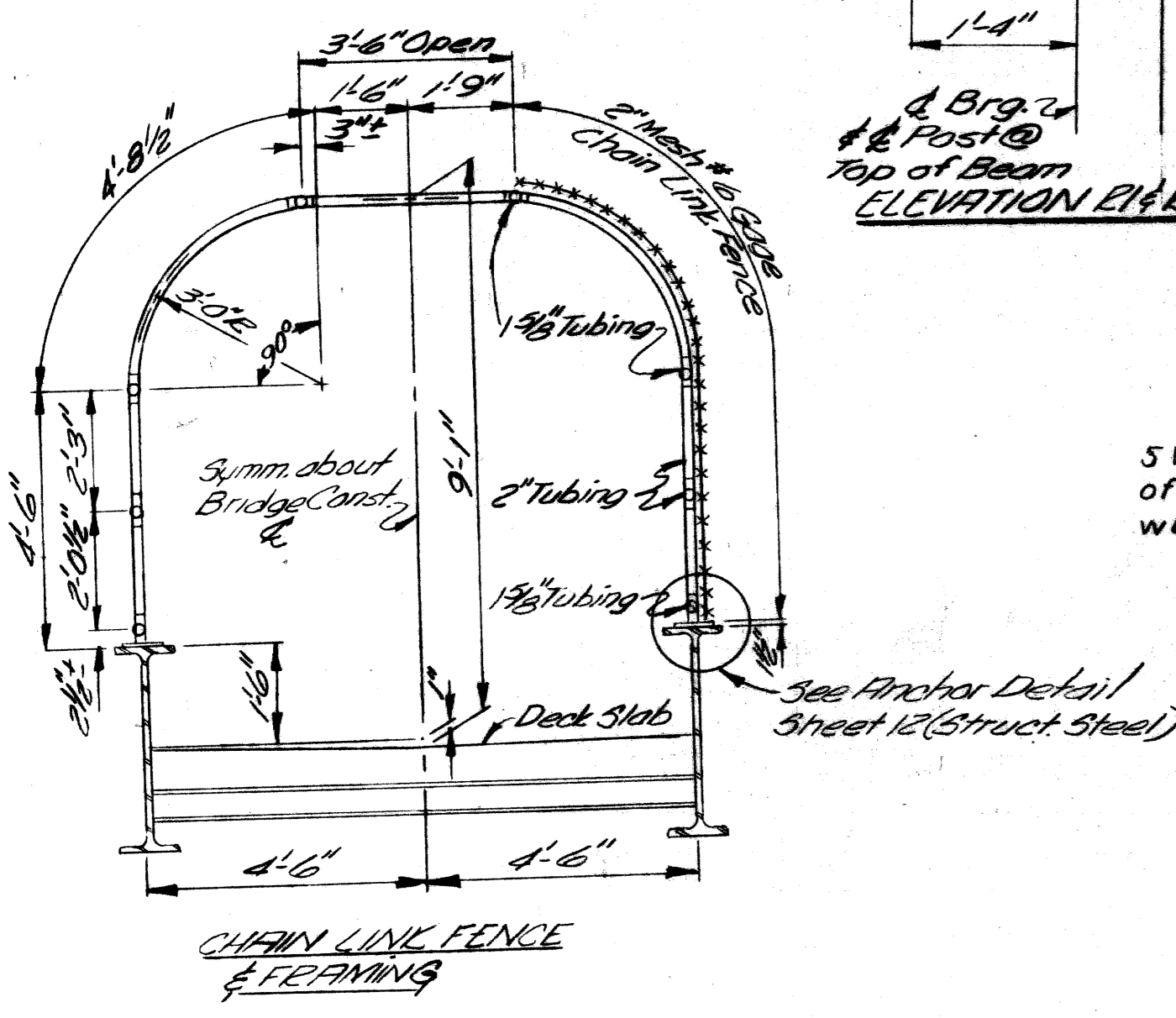
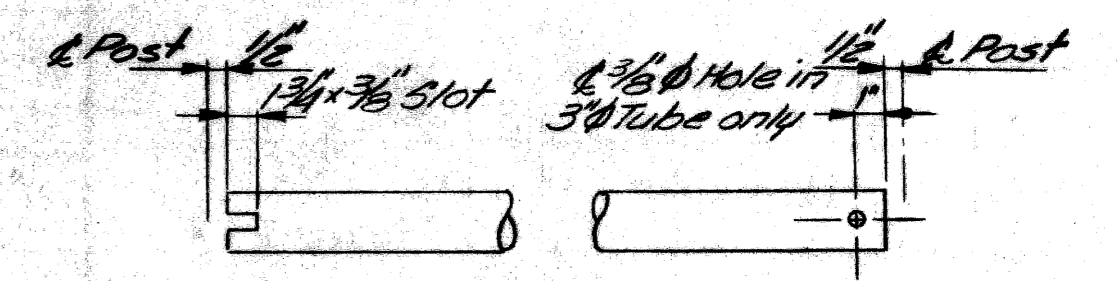
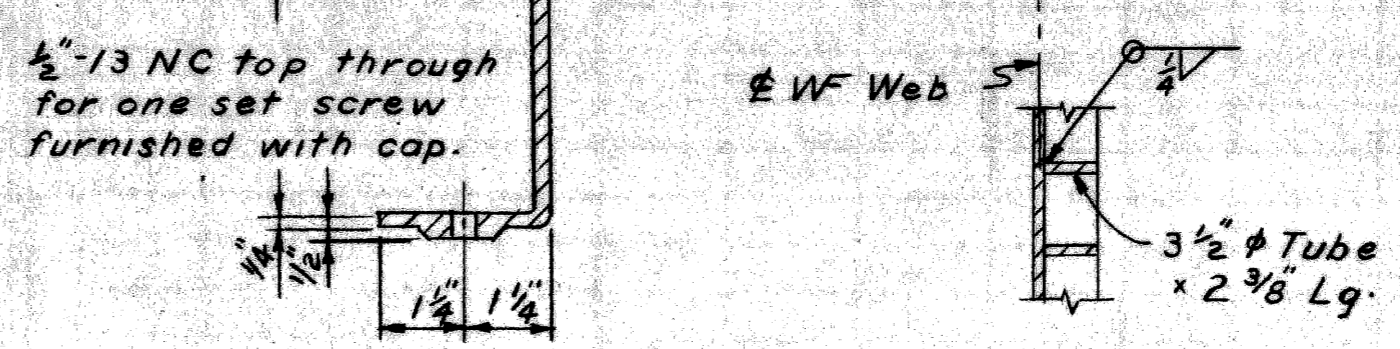
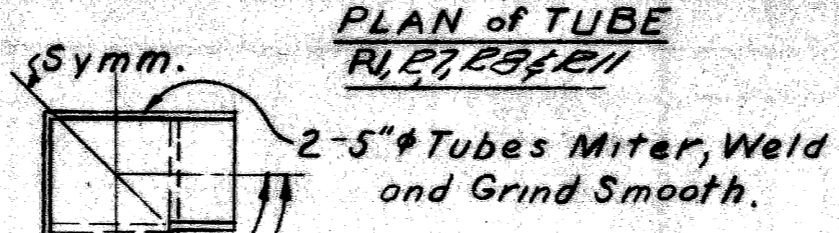
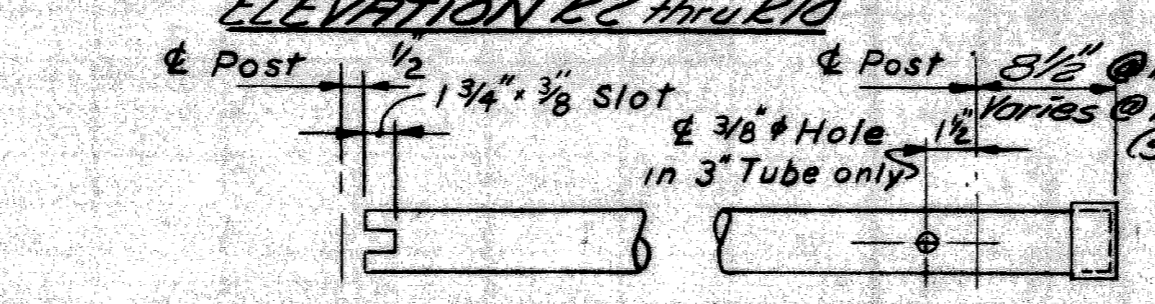
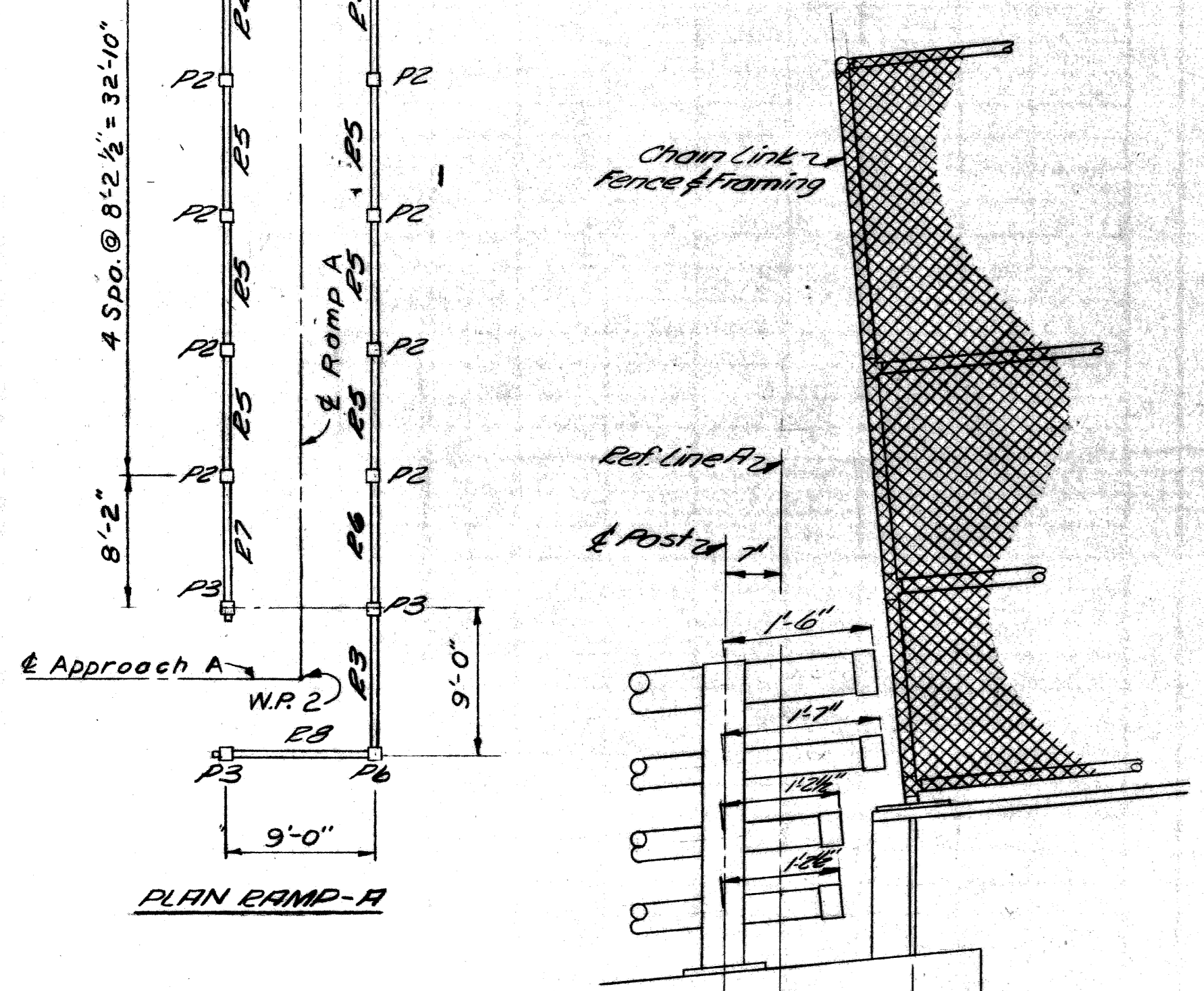
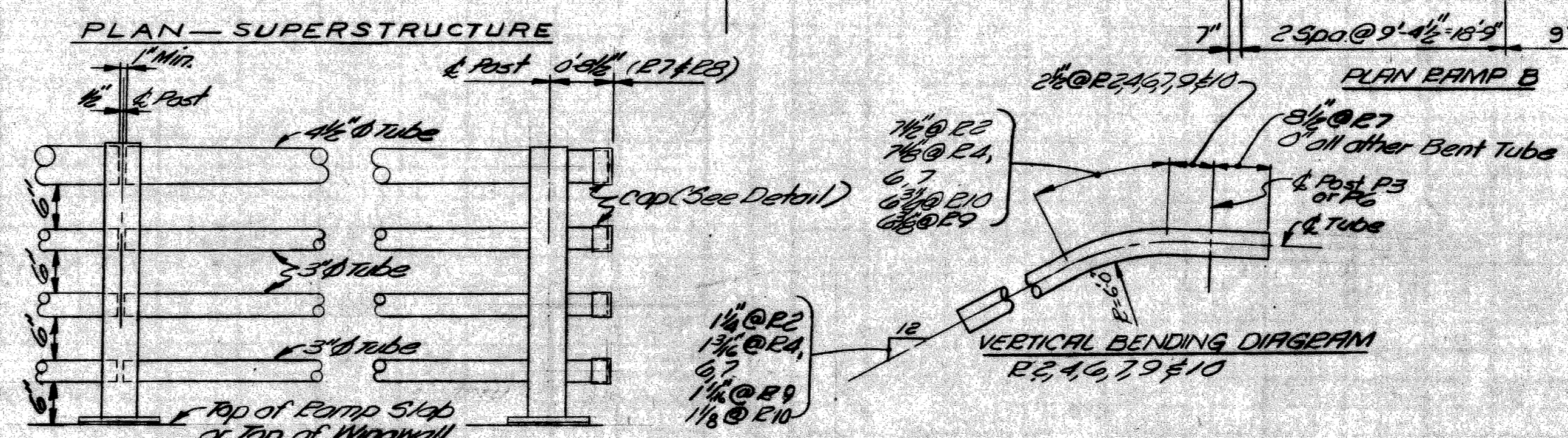
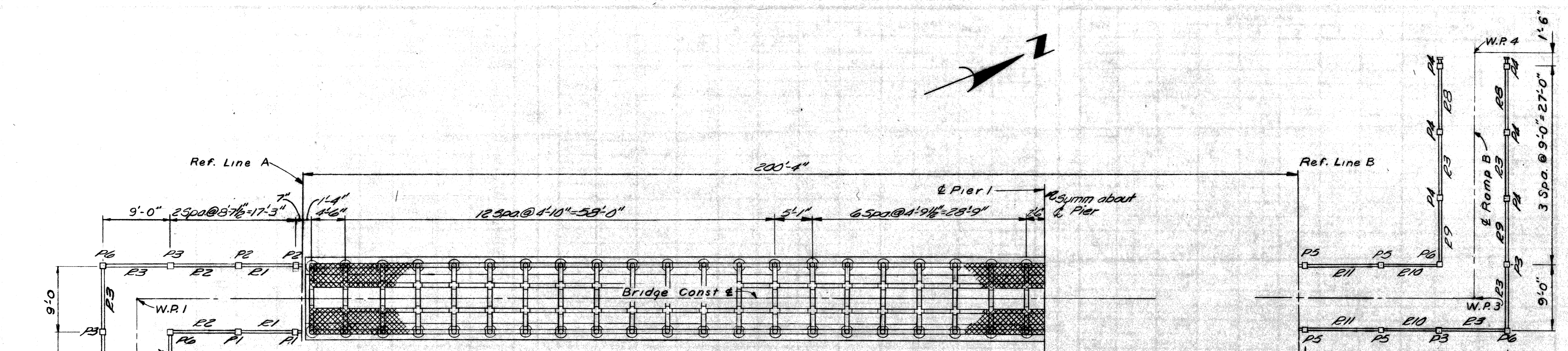
DESIGNED BY *Locher* 7-69
 DRAWN BY *R.V.H.* 7-68
 CHECKED BY *W.A.L.* 2-69
 SHEET 74 of 16

P06 of 82123J

NOTES
 Enclosure Posts are to be normal to the deck slab.
 Ramp Railing maybe either aluminum alloy 6061-T6 (ASTM B235) or steel galvanized in accordance with ASTM A123.
 Chain Link Fence shall be No. 6 gage, 2" Mesh and shall conform to the M.D.S.H. Standard Specifications, Sect 7-22.03. The Fence material is to be adequately fastened to all tubing in the frame.
 Nominal 2" Tubing shall be 2" outside diam. steel pipe or tubing weighing 2.72 lbs. per ft., galvanized.
 Nominal 1 3/8" Tubing shall be 1 3/8" outside diam. steel pipe or tubing weighing 2.27 lbs per ft., galvanized.
 All tubing shall be furnished with suitable connections and it's min. weight shall be within 5% of the weight specified.
 All components are to be galvanized. (Anchor Bolts, Nuts & Washers galvanized in accordance with ASTM designation A153). Galvanizing on Ramp Railing shall be done after fabrication.
 Anchor Bolts, Nuts & Washers are to be ASTM A307 steel.
 Ramp Railing Tube diam. are O.D. and wall thickness shall be 3/16" for all Tubes.
 All distances shown on Plan are horizontal distances.
 Ray length is measured out to out of metal.

QUANTITIES
 Chain Link Fence & Framing 1978/01/16
 Special Bridge Railing fabrication & erection 4 Tube 277/1/16'

POST BEVEL DIMENSIONS						
Post Marked	1	2	3	4	5	6
M	1 3/8"	3/8"	0	1/2"	1/8"	0



PLANS PREPARED BY
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 CITY ENGINEER'S OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS
 APPROVED: [Signature] STRUCTURAL ENGINEER
 JOB NO. PW 990(3)

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

Roosevelt Ave. Pedestrian Bridge
 Crossing the Jeffries Freeway in Detroit

RAILING DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

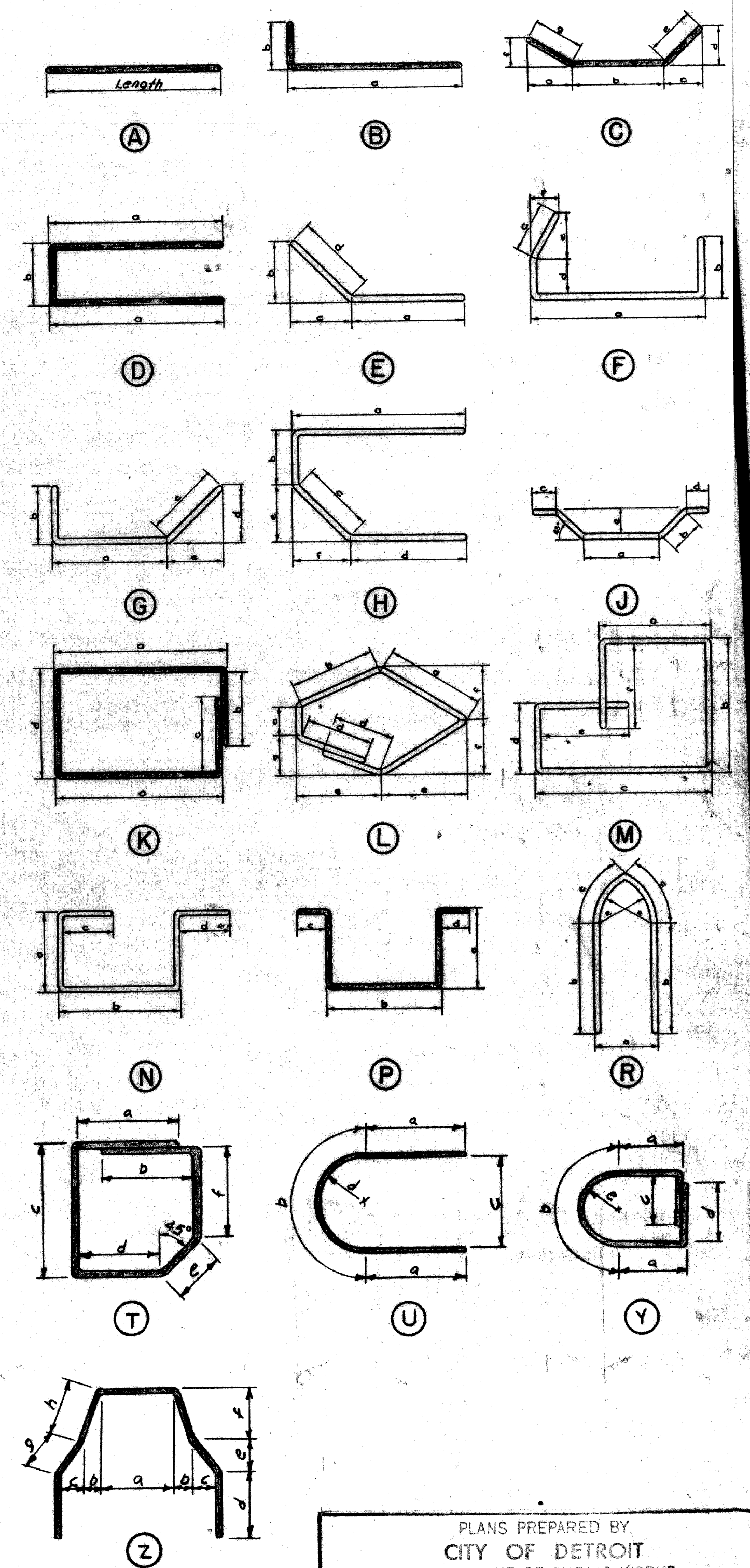
CITY OF DETROIT
 DRAWN BY: Locher 2-62
 TRACED BY: D.S.V.C.H.
 CHECKED BY: WAL 2-69
 SHEET 15 of 16
P06 of 621231

BAR	DIMENSIONS							SIZE	LENGTH	NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g				
A1								#6	12'-6"	80	1502
A2								#6	20'-9"	18	561
A3								#8	12'-6"	18	601
A4								#6	4'-6"	36	243
A5								#8	7'-9"	46	952
A6								#6	6'-0"	128	1154
A7								#6	5'-6"	64	529
A8								#6	10'-3"	100	1540
A9								#4	11'-6"	38	292
A10								#4	18'-9"	32	401
A11								#4	16'-9"	8	90
A12								#4	7'-0"	4	19
A13								#6	8'-0"	28	336
A14								#6	2'-0"	14	42
A15								#6	3'-0"	40	780
A16								#6	4'-0"	28	168
A17								#6	31'-0"	9	419
A18								#4	21'-0"	8	112
A19								#4	20'-3"	32	433
A20								#4	11'-0"	20	147
A21								#4	19'-6"	10	130
A22								#4	18'-3"	8	98
A23								#6	7'-6"	9	101
A24								#6	21'-6"	7	226
A25								#6	22'-3"	18	602
C1	0'-7"	2'-10"	0'-7"	0'-7"	0'-10"	0'-7"	0'-10"	#6	4'-6"	37	250
D1	2'-5 1/2"	0'-4 1/2"						#4	5'-3"	22	77
D2	1'-6"	11'-6"						#4	14'-5"	4	39
T1	0'-7"	0'-7"	0'-10 1/2"	0'-3 1/4"	0'-5 1/2"	0'-5 1/4"		#4	3'-3"	10	22
Total Abutments - 11266											

BAR	DIMENSIONS							SIZE	LENGTH	NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g				
A100								#11	20'-9"	16	1764
A101								#10	19'-6"	13	1091
A102								#9	10'-9"	6	219
A103								#9	8'-9"	4	119
A104								#6	17'-0"	8	204
A105								#7	9'-6"	14	272
A106								#6	19'-6"	4	117
A107								#5	8'-9"	2	18
A108								#4	4'-6"	28	84
B100	2'-6"	0'-9 1/4"						#6	3'-3"	4	20
C100	3'-7 1/2"	3'-6"	3'-7 1/2"	0'-5 1/2"	3'-7 1/2"	0'-5 1/2"	3'-7 1/2"	#6	10'-9"	3	48
C101	2'-7 1/4"	3'-6"	2'-7 1/4"	0'-4"	2'-7 1/2"	0'-4"	2'-7 1/2"	#6	8'-9"	2	26
D100	3'-0 1/2"	2'-0"						#6	8'-0"	10	120
K100	2'-7 1/2"	1'-5 1/4"	1'-5 1/2"	1'-9 1/2"				#4	9'-11"	4	27
K101	2'-6 1/2"	1'-5 1/4"	1'-5 1/2"	1'-9 1/2"				#4	9'-9"	4	26
K102	2'-5 1/2"	1'-5 1/4"	1'-5 1/2"	1'-9 1/2"				#4	9'-7"	4	26
K103	2'-4 1/2"	1'-5 1/4"	1'-5 1/2"	1'-9 1/2"				#4	9'-4"	4	25
K104	2'-3 1/2"	1'-5 1/4"	1'-5 1/2"	1'-9 1/2"				#4	9'-2"	4	24
U100	1'-7"	3'-5"	2'-1 1/2"	1'-0 1/4"				#5	6'-7"	8	55
Y100	1'-1 1/2"	3'-4 1/2"	1'-5 1/4"	1'-5 1/2"	1'-0 1/2"			#4	8'-6"	24	136
Z100	2'-4 1/4"	0'-3"	0'-9"	2'-8 1/4"	1'-1"	1'-1 1/2"	1'-3 1/2"	#4	12'-9"	12	102
Total Pier - 4523											

BAR	DIMENSIONS							SIZE	LENGTH	NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g				
A201								#4	8'-6"	396	2249
A202								#4	2'-3"	8	12
A203								#4	34'-0"	192	4361
A204								#4	1'-3"	32	27
A205								#4	6'-0"	120	481
A206								#4	4'-9"	8	25
D201	1'-1 1/4"	4'-7 1/2"						#4	6'-9"	6	27
P201	1'-0"	1'-7 1/2"	0'-11 1/4"	0'-11 1/4"				#4	5'-6"	20	73
Total Superstructure - 7255											

BAR BENDING DIAGRAM



Note:-
All right angle bends in Reinforcing Steel to be made about a pin of the minimum diameter allowed by the Standard Specifications.
All bar numbers shown on this sheet to be prefixed P06.

TOLERANCES IN CUTTING AND BENDING BARS ARE AS ESTABLISHED IN MANUAL OF STANDARD PRACTICE OF THE CONCRETE REINFORCING STEEL INSTITUTE AND DETAILING MANUAL OF THE AMERICAN CONCRETE INSTITUTE.
Grand Total Steel Reinforcement 23,044

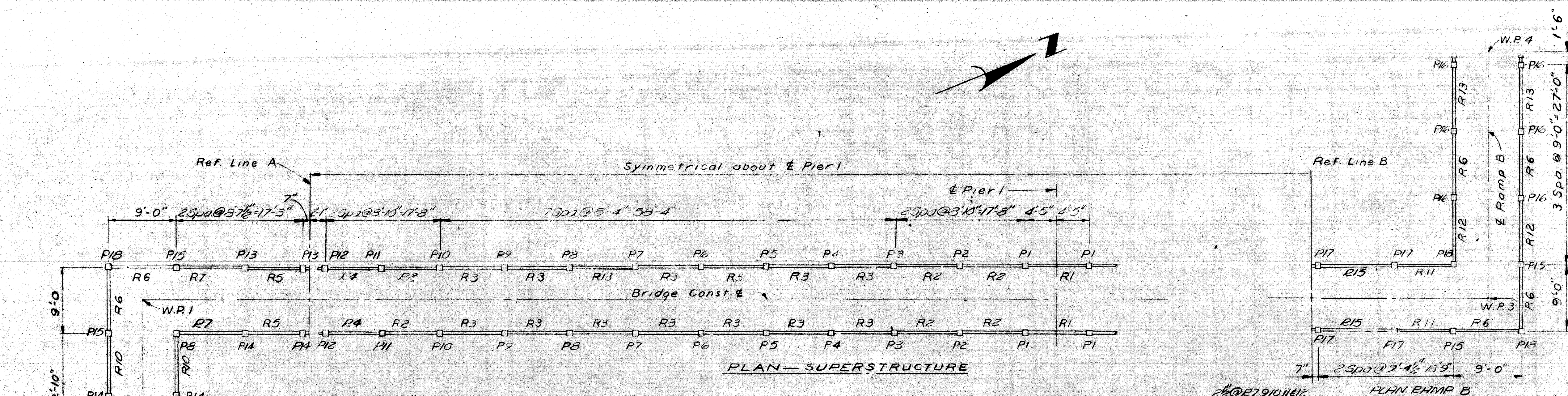
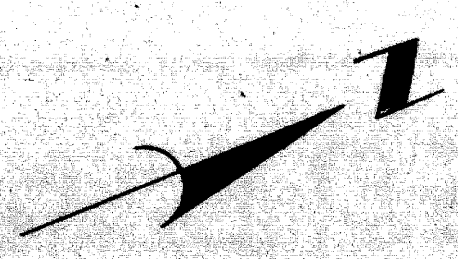
PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS
APPROVED: *J. J. Covert*
STRUCTURAL ENGINEER
JOB No. PW 990(3)

MICHIGAN STATE HIGHWAY DEPARTMENT

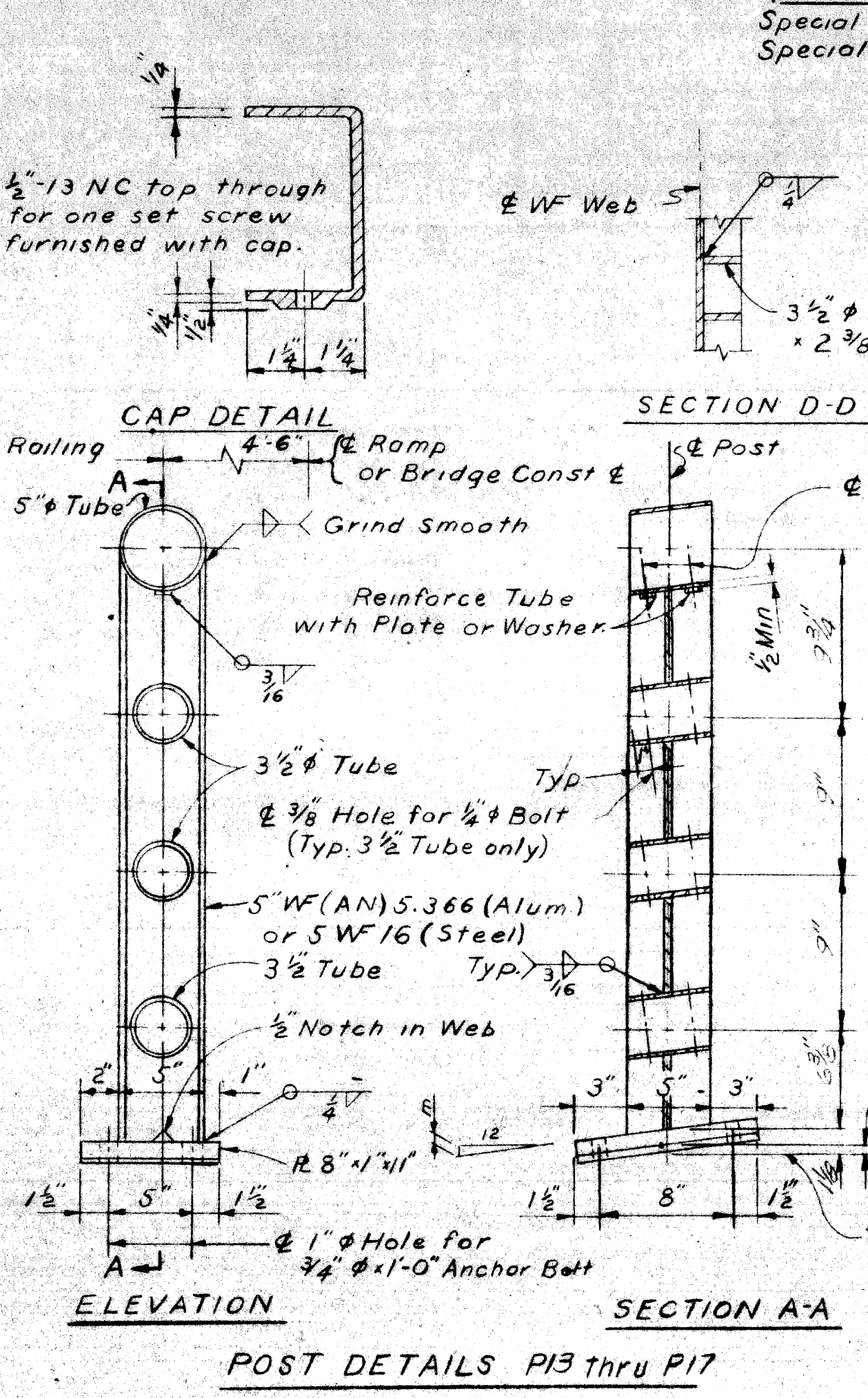
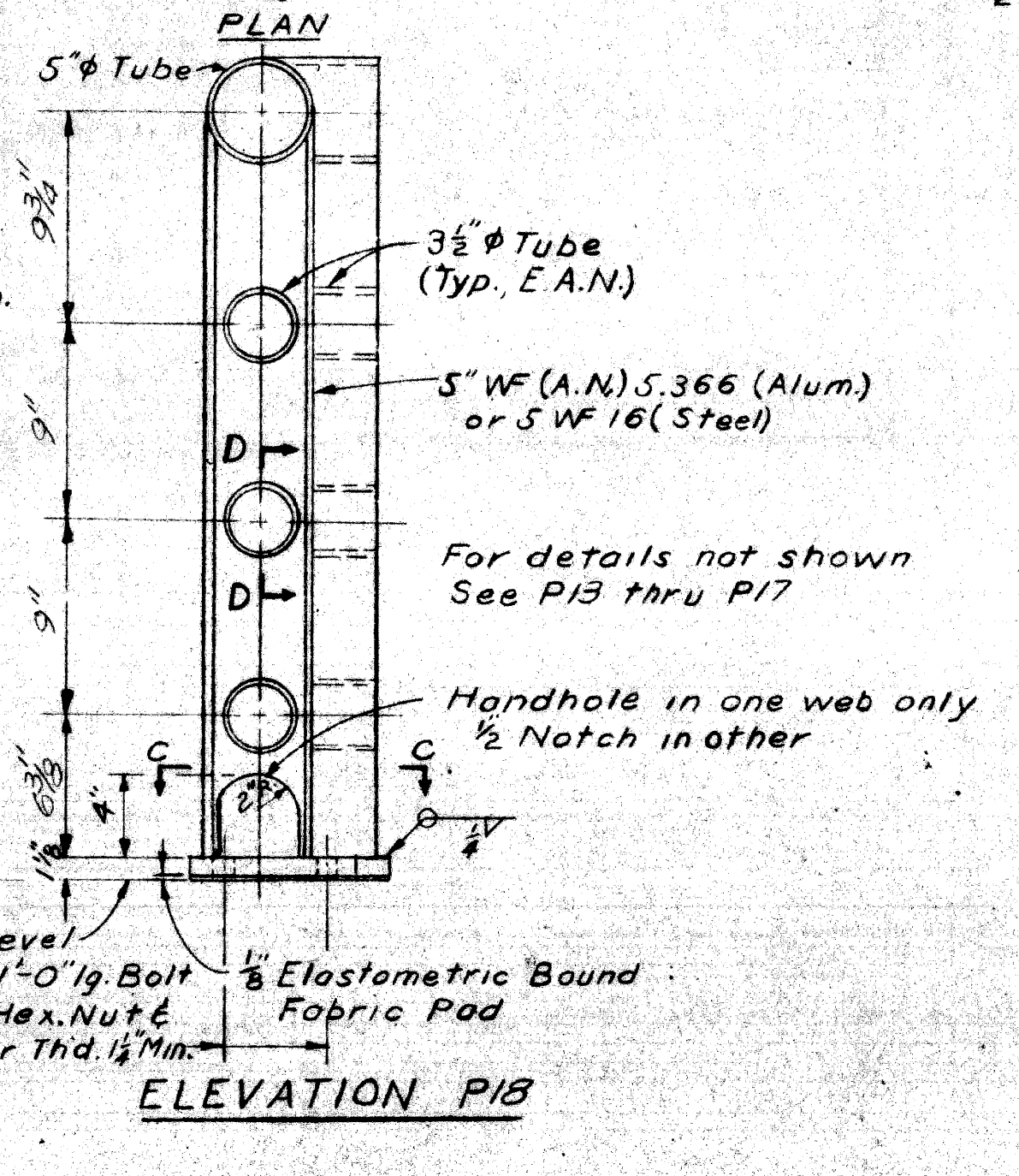
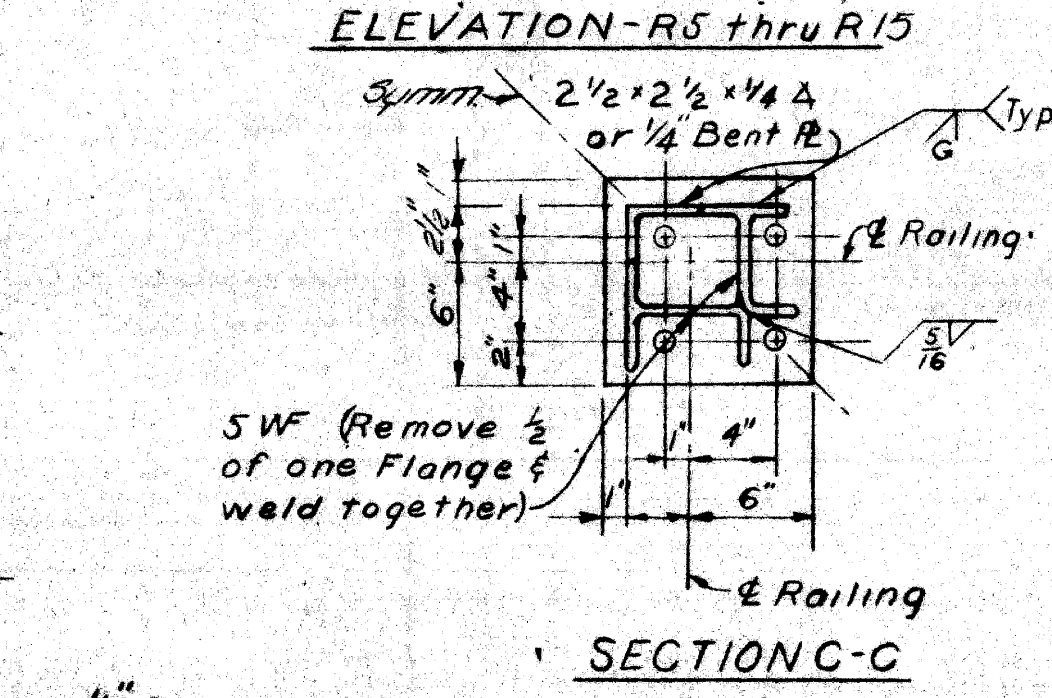
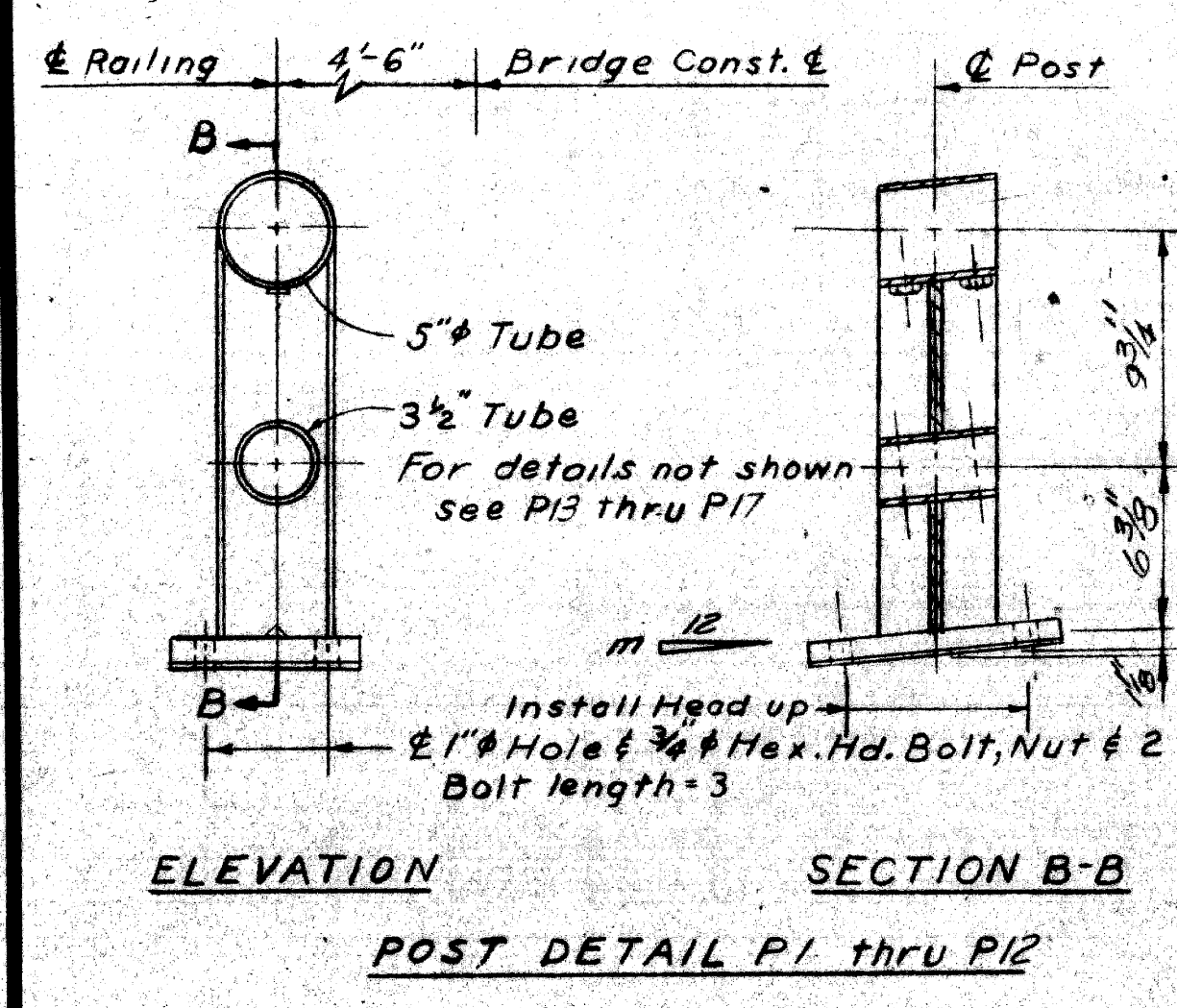
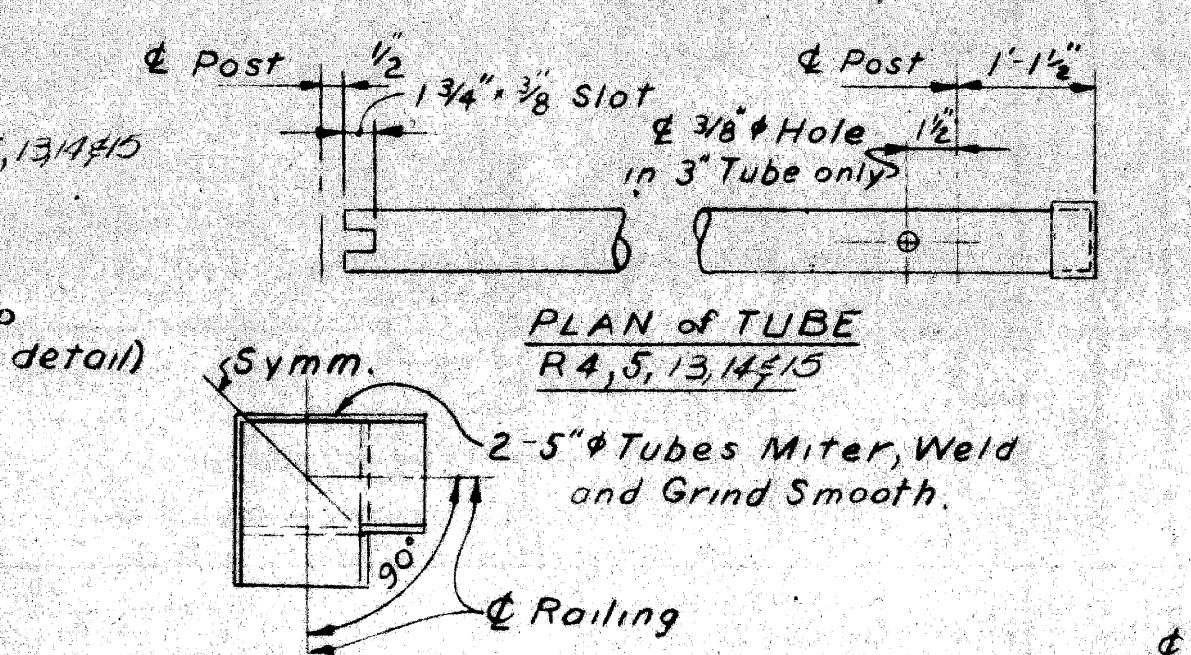
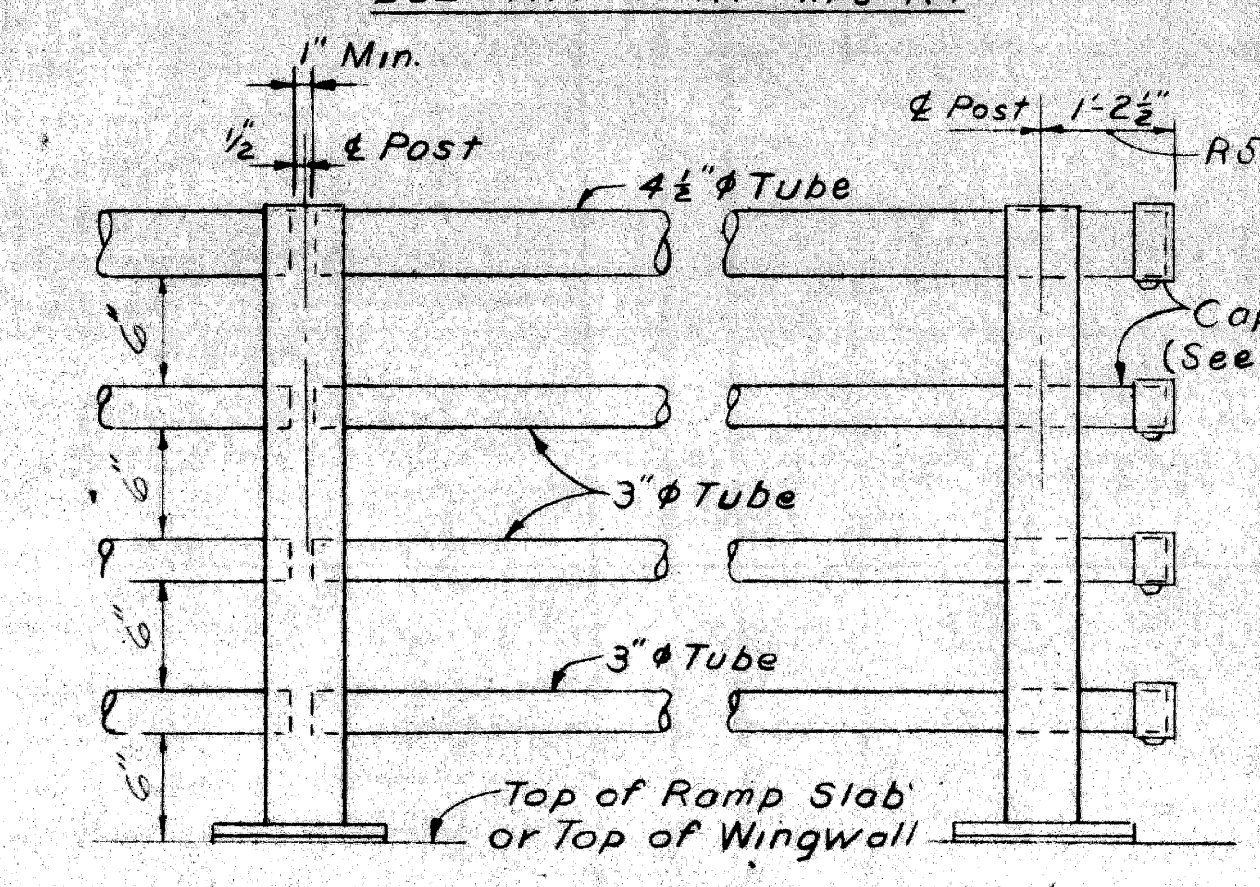
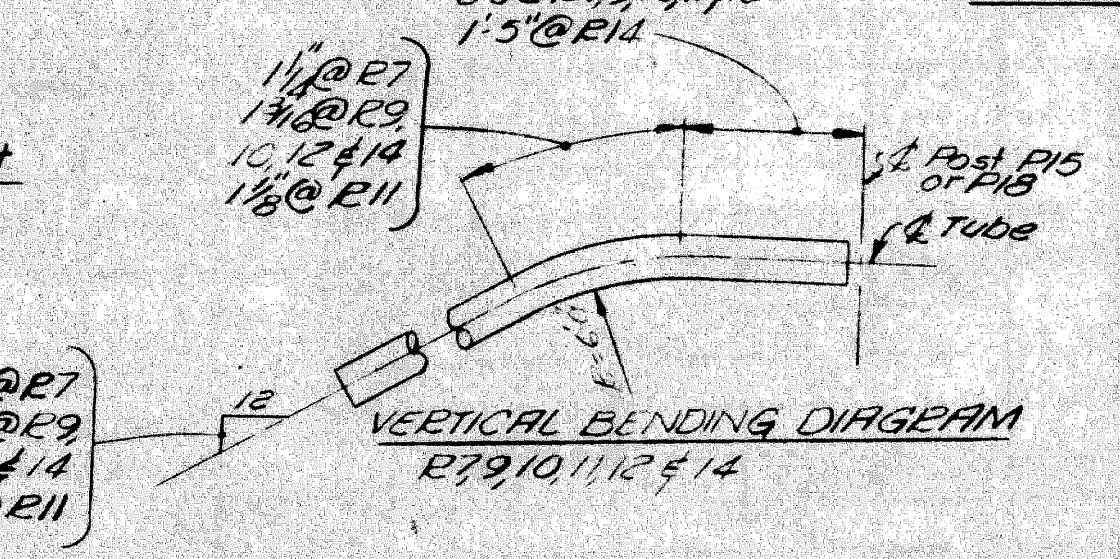
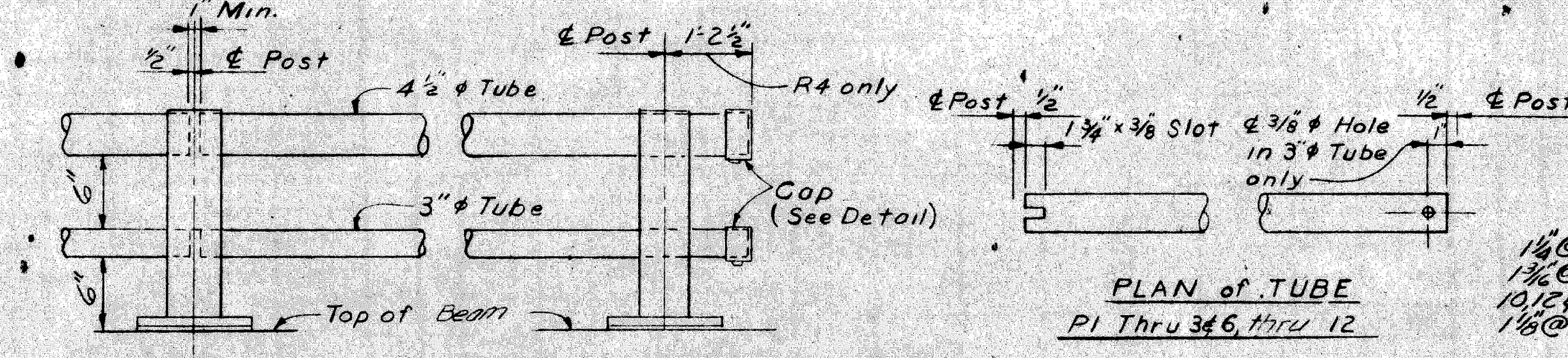
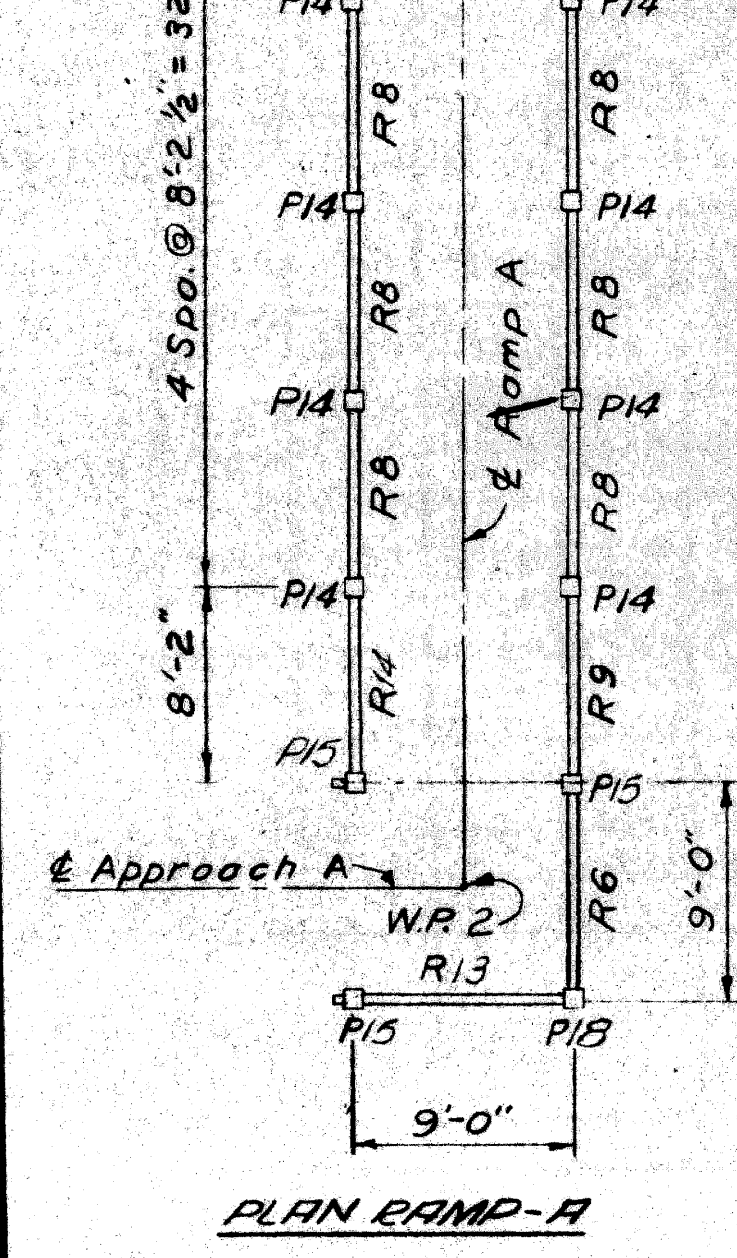
ROOSEVELT AVE. PEDESTRIAN BRIDGE
CROSSING THE JEFFRIES FREEWAY IN DETROIT
STEEL REINFORCEMENT DETAILS

NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT
SQUAD BOSS: Locher 2-69
DRAWN BY: Saravali 5-68
TRACED BY: D.J.R. 3-69
CHECKED BY: 16 of 16
SHEET
P06 of 82123J



NOTE:
 Railing may be either aluminum alloy 6061 T6 (A.S.T.M. B235) or steel galvanized in accordance with A.S.T.M. A123
 Bolts, Nuts and Washers shall be steel galvanized in accordance with A.S.T.M. A153 and are incidental to the pay quantity.
 Galvanizing shall be done after fabrication.
 Dimensions are horizontal along centerline of railing.
 Pay length is measured out to out of metal with no deductions for expansion openings.
 Tube diameters are O.D. and wall thickness shall be 3/16 for all tubes.



QUANTITIES
 Special Bridge Railing - Fabrication & Erection 2 Tube 397.2 Lin. Ft.
 Special Bridge Railing - Fabrication & Erection 4 Tube 271.7 Lin. Ft.

Post No. & E.P.	POST BEVEL DIMENSIONS																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
m	1/8	3/16	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	1 7/8	2	2 1/8	2 1/4	0

APPROVED BY: [Signature]

STRUCTURAL ENGINEER

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

ROOSEVELT AVE. PEDESTRIAN BRIDGE
 CROSSING THE JEFFRIES FREEWAY IN DETROIT

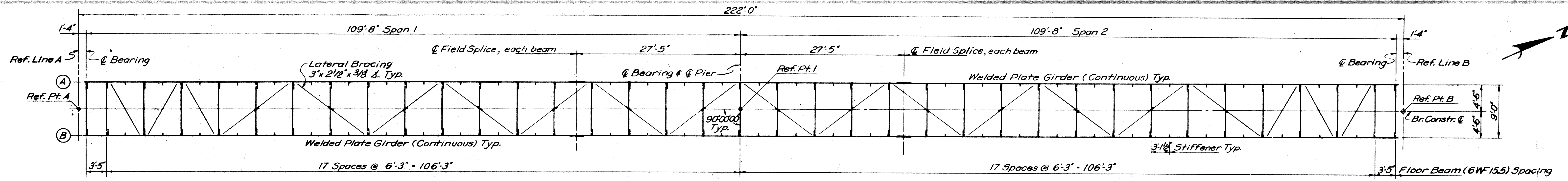
RAILING DETAILS

REVISIONS

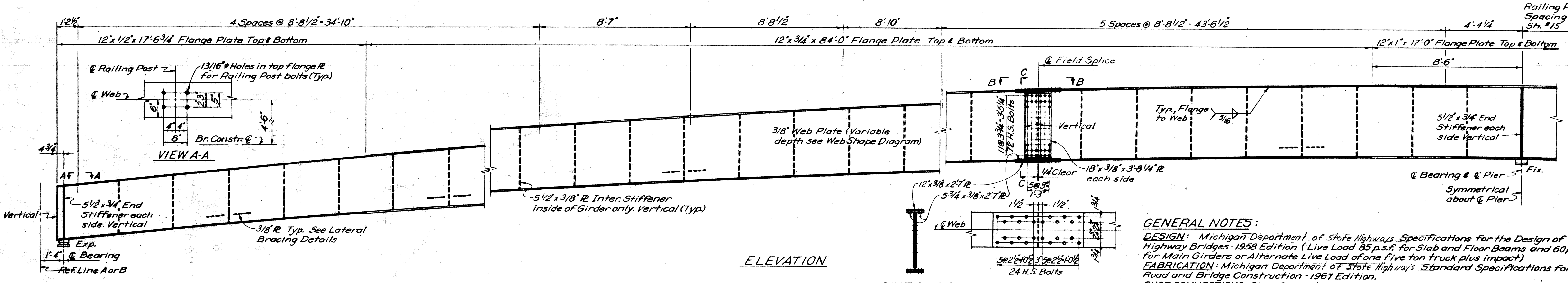
NO.	DESCRIPTION	DATE	BY

SHEET 15 OF 16

P06 of 01201



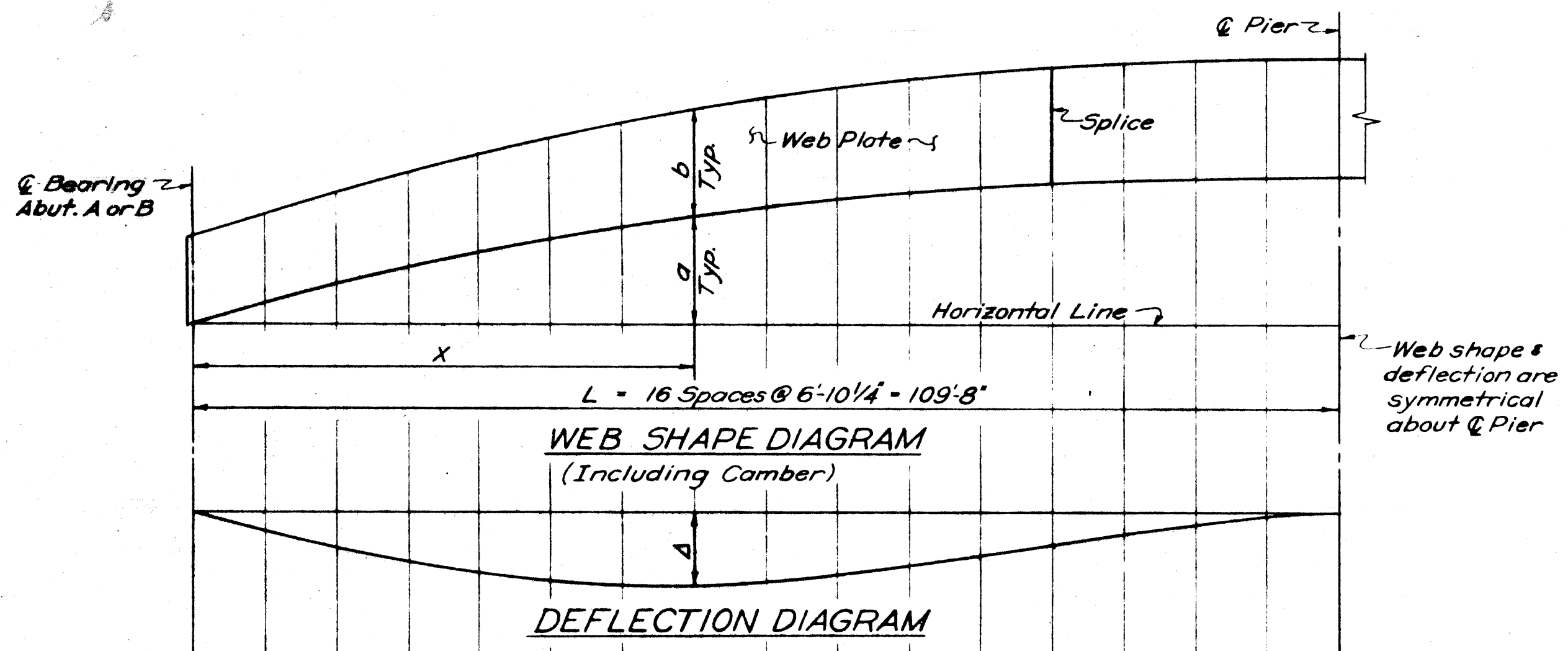
ERECTION PLAN



ELEVATION

SECTION C-C

VIEW B-B



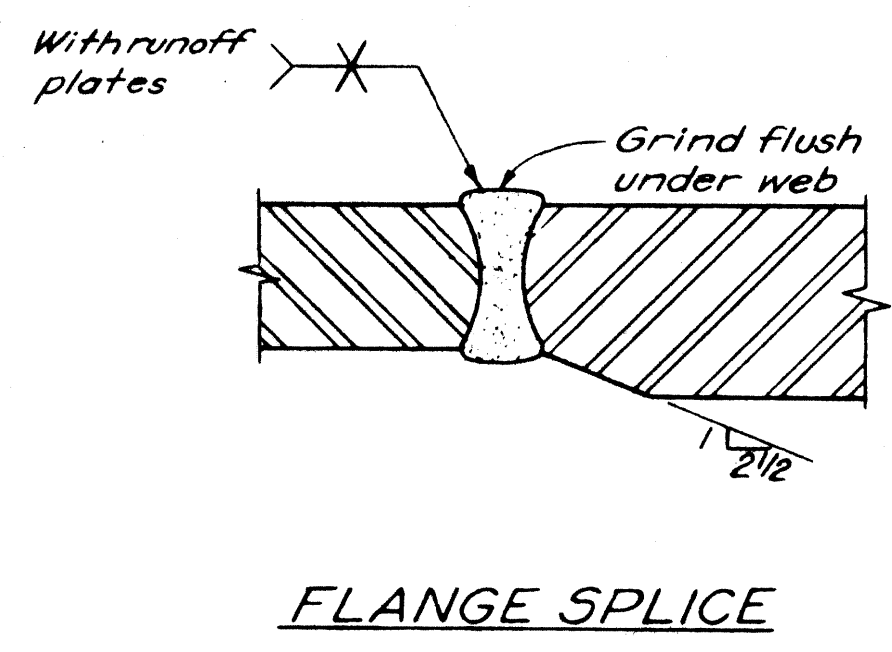
WEB SHAPE DIAGRAM
(Including Camber)

DEFLECTION DIAGRAM

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 9/16"	2'-10 5/8"	3'-3 3/8"	3'-7 3/4"	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 1/2"	4'-11 5/8"
b	3'-0"	3'-0"	3'-0 5/16"	3'-2 1/2"	3'-3 7/8"	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 5/8"	4'-0"
ΔB.M.W.	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 5/16"	2 1/16"	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. (ΔB.M.W. + Δslab & railing - ΔD.L.)

GENERAL NOTES:
DESIGN: Michigan Department of State Highways Specifications for the Design of Highway Bridges - 1958 Edition (Live Load 85 p.s.f. for Slab and Floor Beams and 60 p.s.f. for Main Girders or Alternate Live Load of one five ton truck plus impact)
FABRICATION: Michigan Department of State Highways 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: The bottom surfaces of sole plates and top surfaces of masonry R's 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:
 #44 Steel Modif. (includes Metal Exp. Jts., Drain Frame & Grates) 63,900 lbs.
 Bronze Plates 100 lbs.
 Structural Steel - Furnishing & Fabricating (Total) 66,000 lbs.
 Structural Steel Erection 66,000 lbs.



FLANGE SPLICE

Work this Sheet with Sheet #11

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

ROOSEVELT AVE. PEDESTRIAN BRIDGE
CROSSING THE JEFFRIES FREEWAY IN DETROIT

STRUCTURAL STEEL DETAILS

CITY OF DETROIT

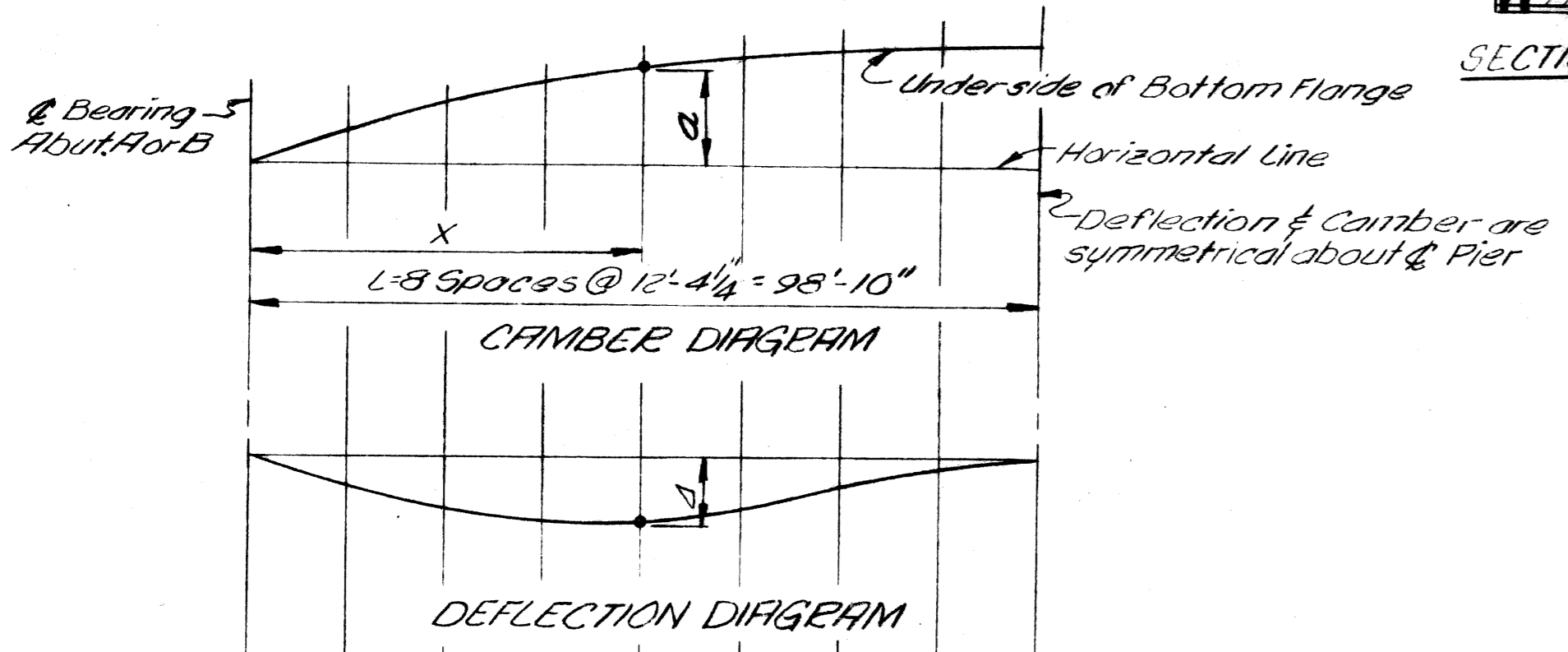
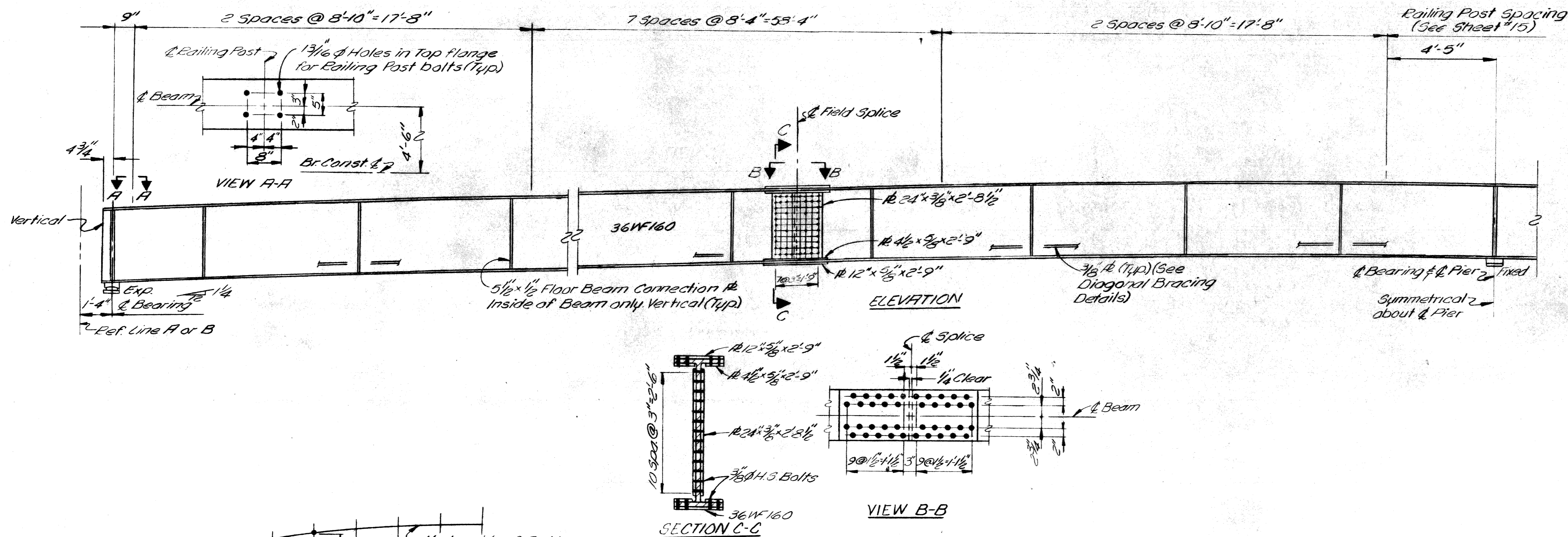
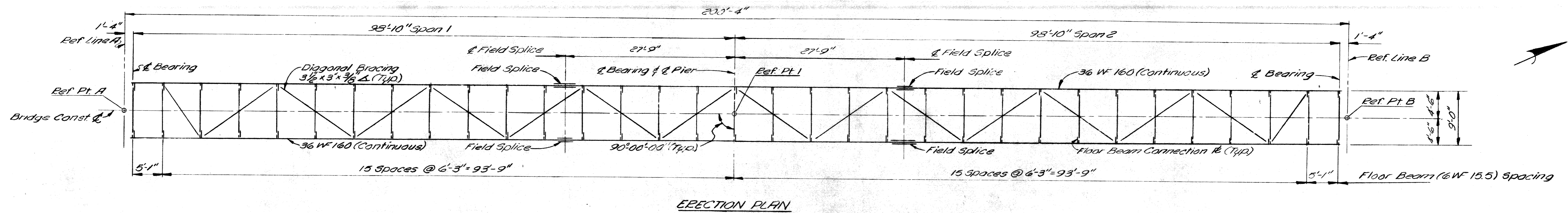
PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: _____
STRUCTURAL ENGINEER

JOB No.
PW 990(3)

NO.	DESCRIPTION	DATE	BY

DRAWN BY: K.K.M. 6-68
 CHECKED BY: _____
 SHEET 12 OF 16
 P06 of 82123J



X/L	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1
a	0	1'-3 3/8"	2'-3 3/8"	3'-1 1/2"	3'-9 3/8"	4'-3 3/8"	4'-7 3/8"	4'-10"	4'-10 3/8"
ΔBm Wt	0	4"	8"	12"	16"	20"	24"	28"	32"
ΔDL	0	3/8"	1 1/8"	2 1/4"	3 3/8"	5 1/8"	7 1/8"	9 3/8"	12 1/8"

NOTE: Camber ordinate "a" includes allowance for vertical curve and ΔDL.
 ΔBm Wt = Deflection due to weight of steel Beam only.
 ΔDL = Deflection due to weight of structural steel, slab and railing

GENERAL NOTES:

DESIGN: Michigan Department of State Highways Specifications for the Design of Highway Bridges - 1958 edition and current AASHTO Standard Specifications for Highway Bridges. (Live Load is 55 psf with Alternate 1 live load of one five ton truck plus impact)

FABRICATION: Michigan Department of State Highways Standard Specifications for Road and Bridge Construction - 1967 edition

SHOP CONNECTION: Shop Connections shall be welded as shown on the Plans.

FIELD CONNECTION: Field Connections shall be bolted with 3/4" high strength bolts, except as noted.

CAMBER: The beams are to be cambered as shown. Camber is to be measured with the beam lying on its side. Allowable camber tolerance for rolled beams is 1/4". Heating is to be used, if necessary, to assure camber permanency within the above tolerance.

WELDING: Welding on tension flanges of beams will not be permitted unless such welding is shown on the plans or specified. Welding at other locations on the beams, 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.

MATERIAL: Structural Steel shall conform to the requirements of the current specifications for Structural Steel, Unpainted, A.S.T.M. Designation A36 Modified.

Steels in anchor bolts, may be A.S.T.M. A307.

Position Dowels and Anchor Bolts (including nuts and washers) shall be galvanized in accordance with A.S.T.M. Designation A153.

All steel material used for bearings with exception of portion welded to beams shall be galvanized in accordance with A.S.T.M. Designation A153. Galvanizing shall be applied after fabrication of bearing. Mill scale and foreign material shall be removed prior to galvanizing.

QUANTITIES

Elastomeric Bearing Pad	_____	Sq Ft
Structural Steel - Furnishing and Fabricating*	_____	Lbs.
Structural Steel - Erection*	_____	Lbs.

* The quantity "Structural Steel" includes metal parts of Armored Neoprene Joints, Drain Frames and Gates consists of:

Steel	105.
Brass	105.
Total	Lbs.

Work This Sheet with Sheet 13 of 15

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

ROOSEVELT AVE. PEDESTRIAN BRIDGE
CROSSING THE JEFFRIES FREEWAY IN DETROIT

STRUCTURAL STEEL DETAILS

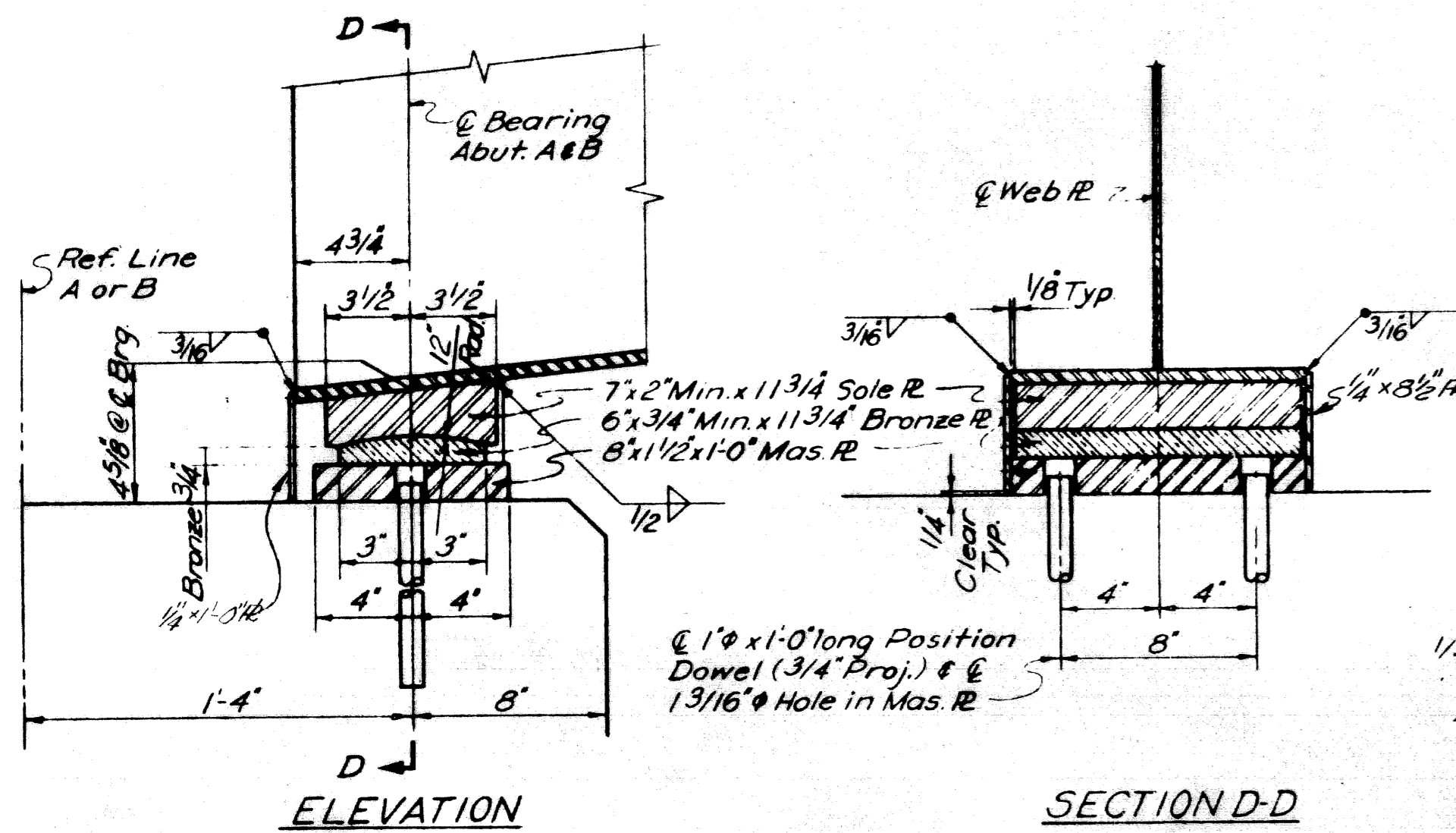
REVISIONS			
NO.	DESCRIPTION	DATE	BY

DRAWN BY CHECKED BY SHEET 12 of 16	SQUAD BOSS CITY OF DETROIT P06 of 82123J
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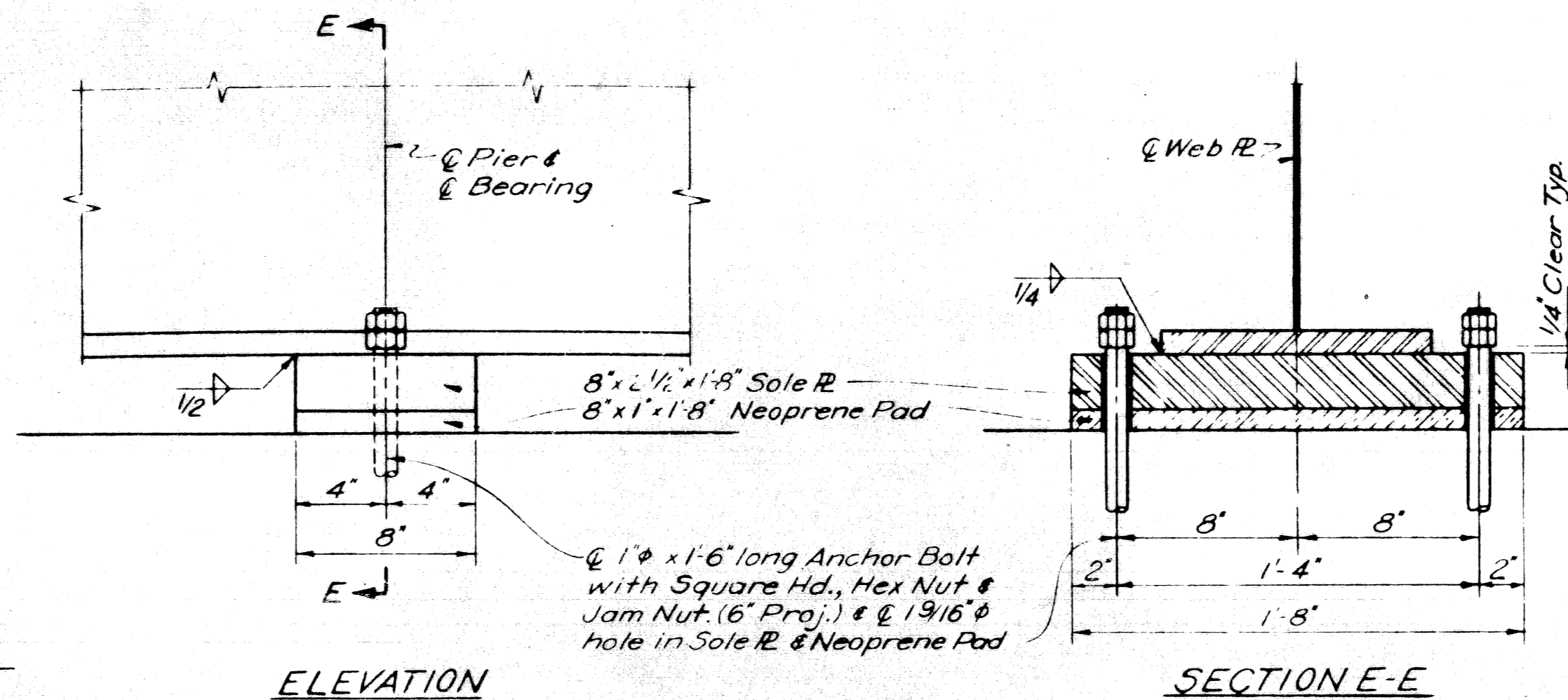
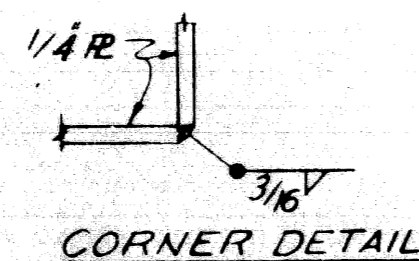
PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER
BUREAU OF HIGHWAYS AND EXPRESSWAYS

JOB No.
PW 99033

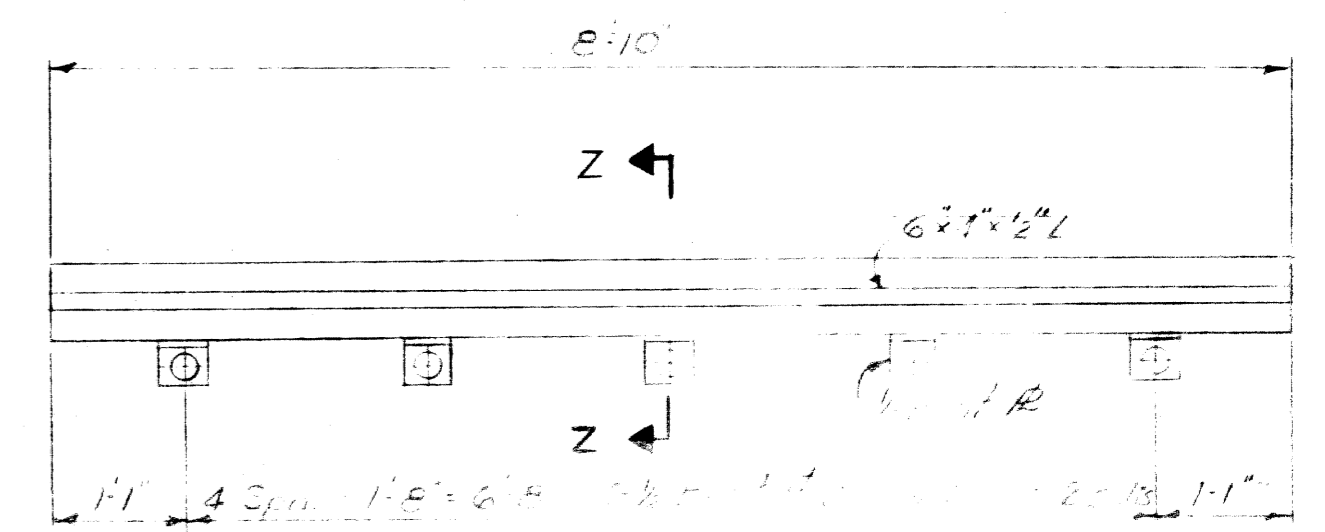
APPROVED _____
STRUCTURAL ENGINEER



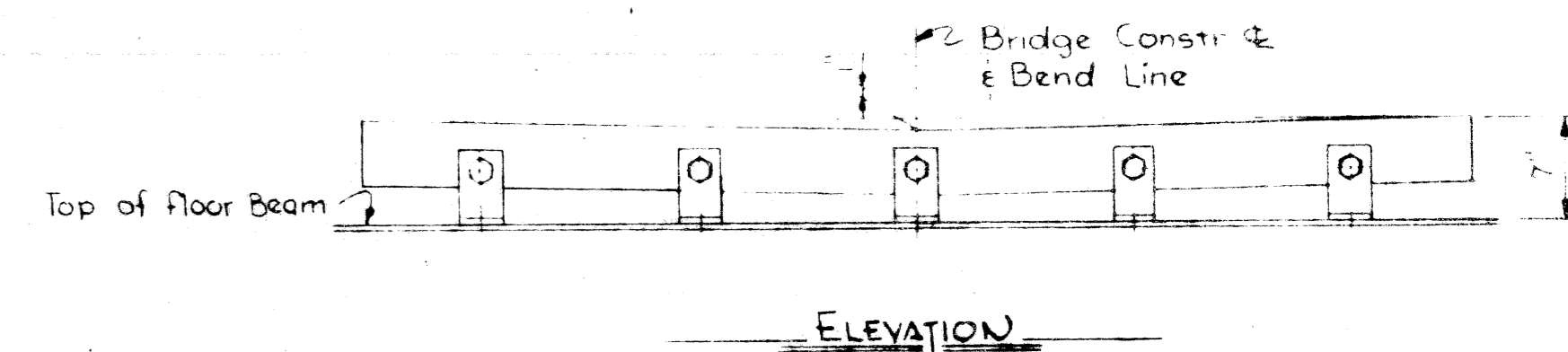
ABUTMENT BEARING DETAILS



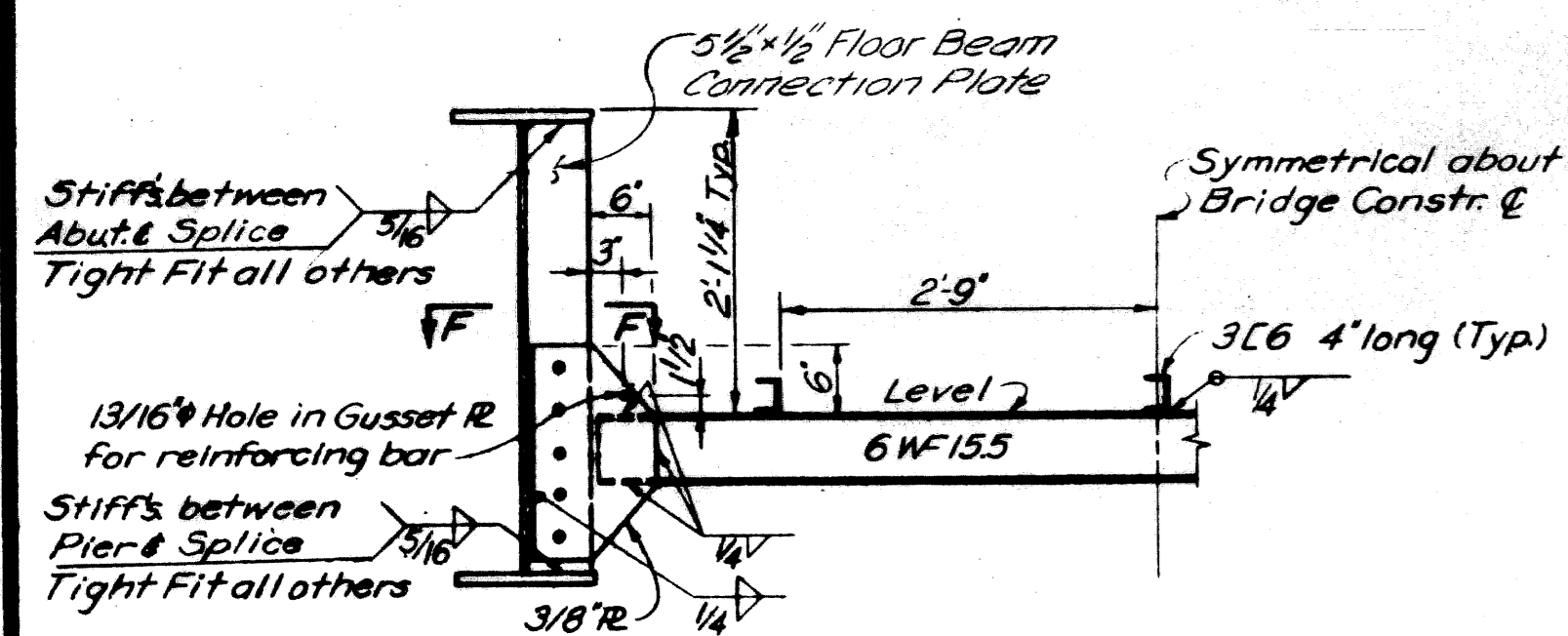
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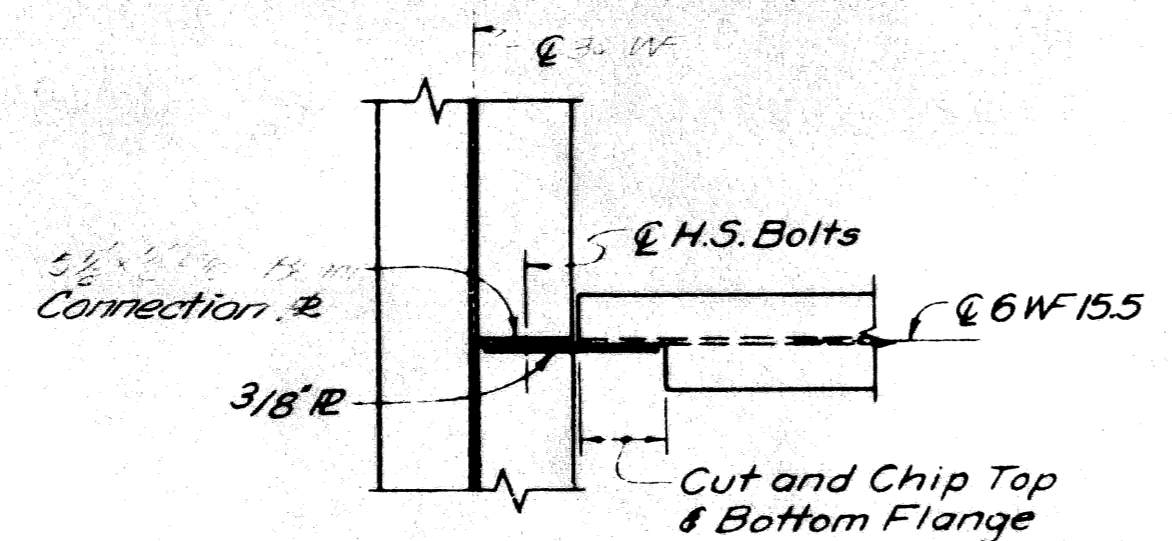
METAL EXPANSION JOINT - PLAN



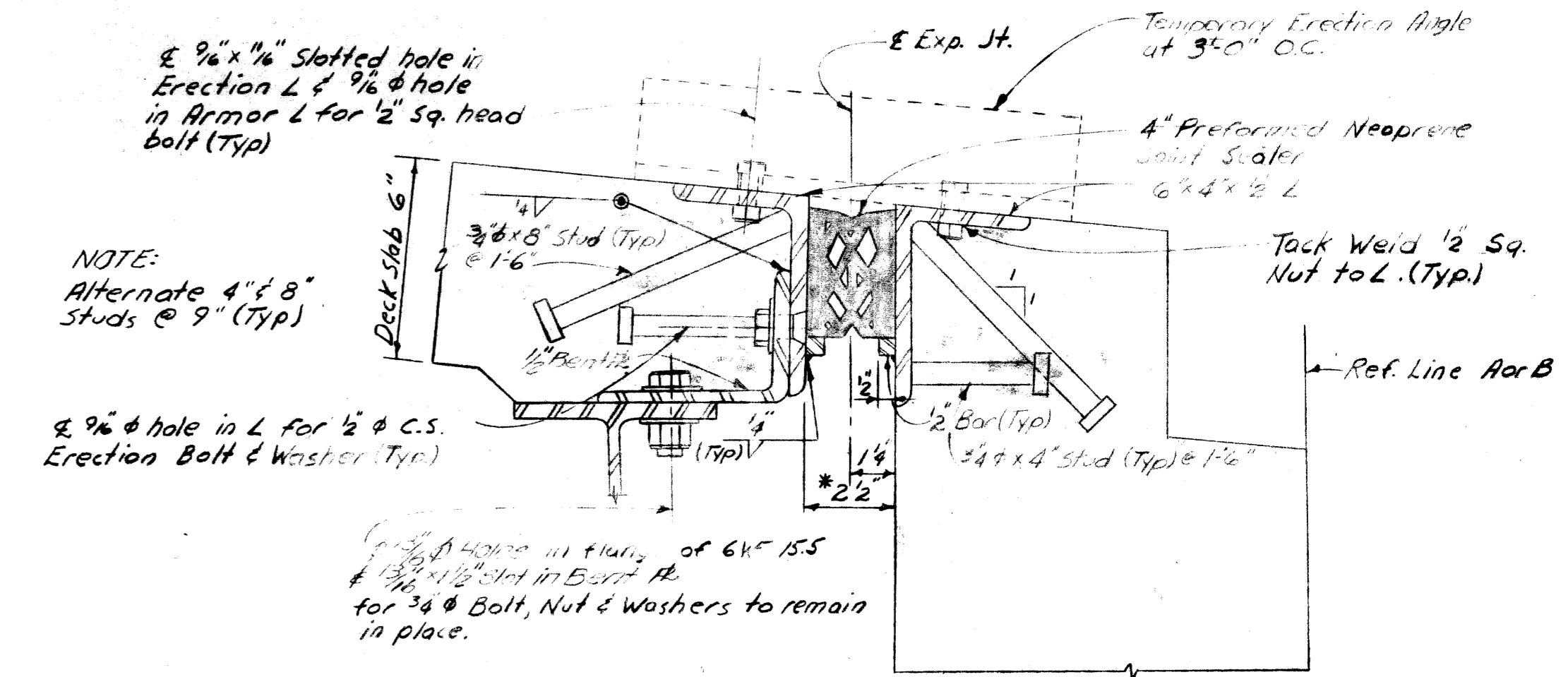
ELEVATION



TYPICAL HALF SECTION

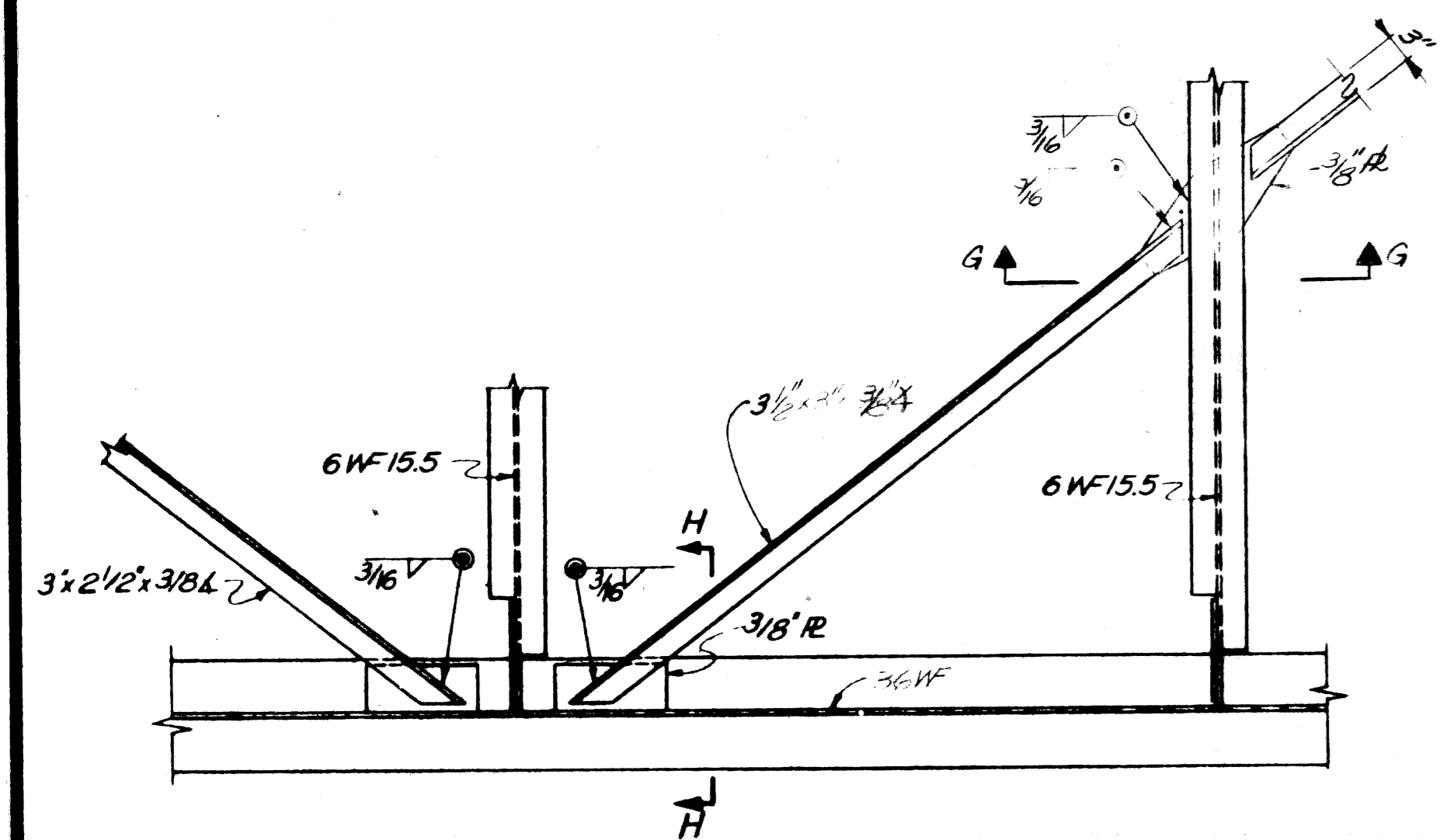


SECTION F-F

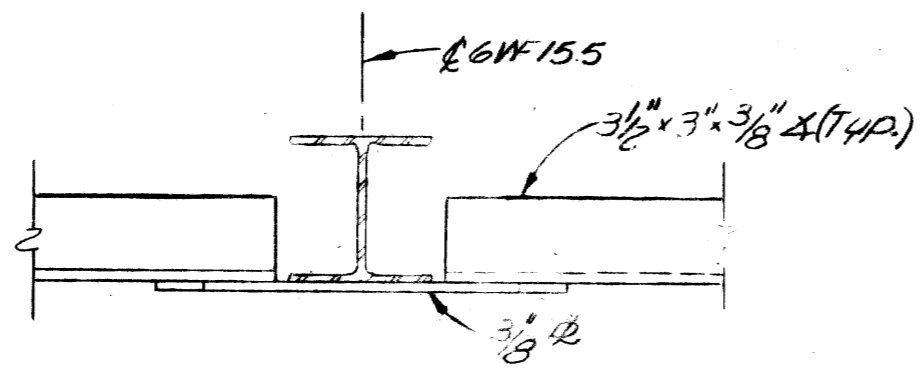


SECTION Z-Z

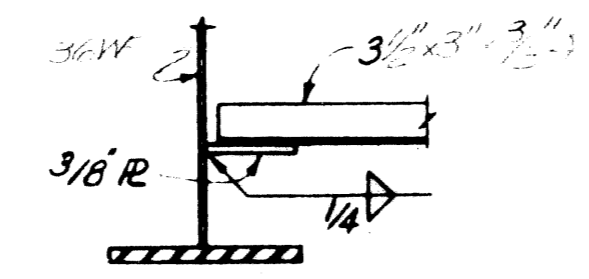
* Increase by 1/8 for each 10° of beam temperature below 60°F. for each 70' of slab length or decrease by 1/8 for each 10° of beam temperature above 60°F. for each 70' of slab length. (Slab length is measured at right angles to joint.)



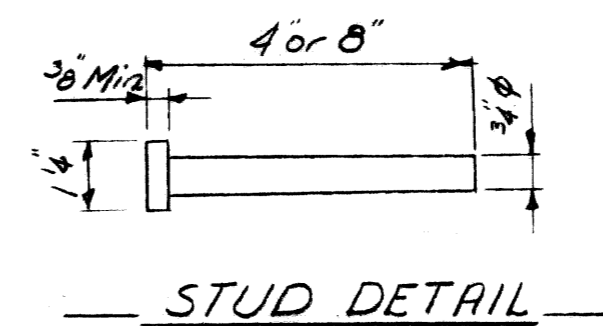
LATERAL BRACING DETAILS



SECTION G-G



SECTION H-H



STUD DETAIL

Work this Sheet with Sheet #12

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

ROOSEVELT AVE. PEDESTRIAN BRIDGE
CROSSING THE JEFFRIES FREEWAY IN DETROIT

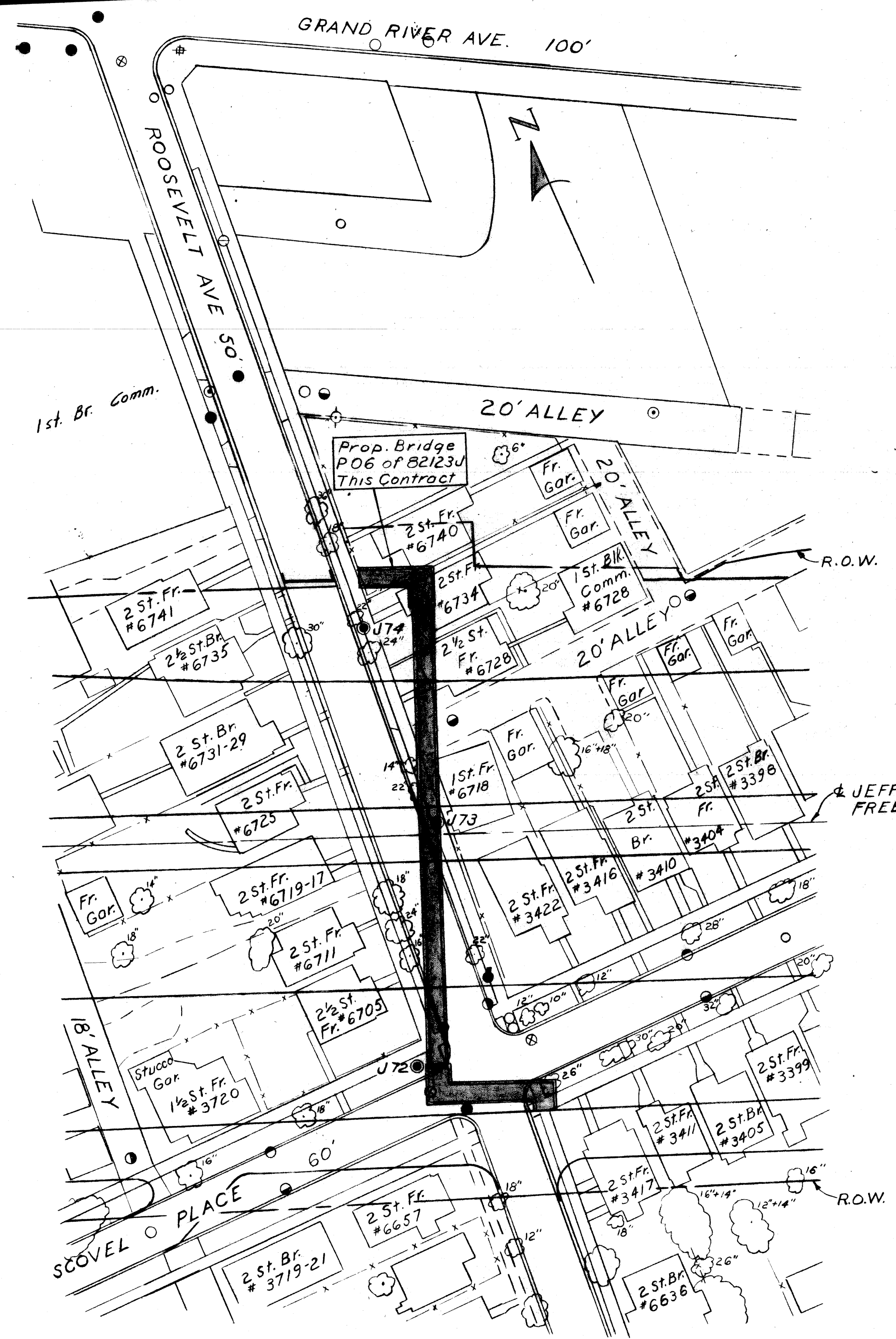
STRUCTURAL STEEL DETAILS

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

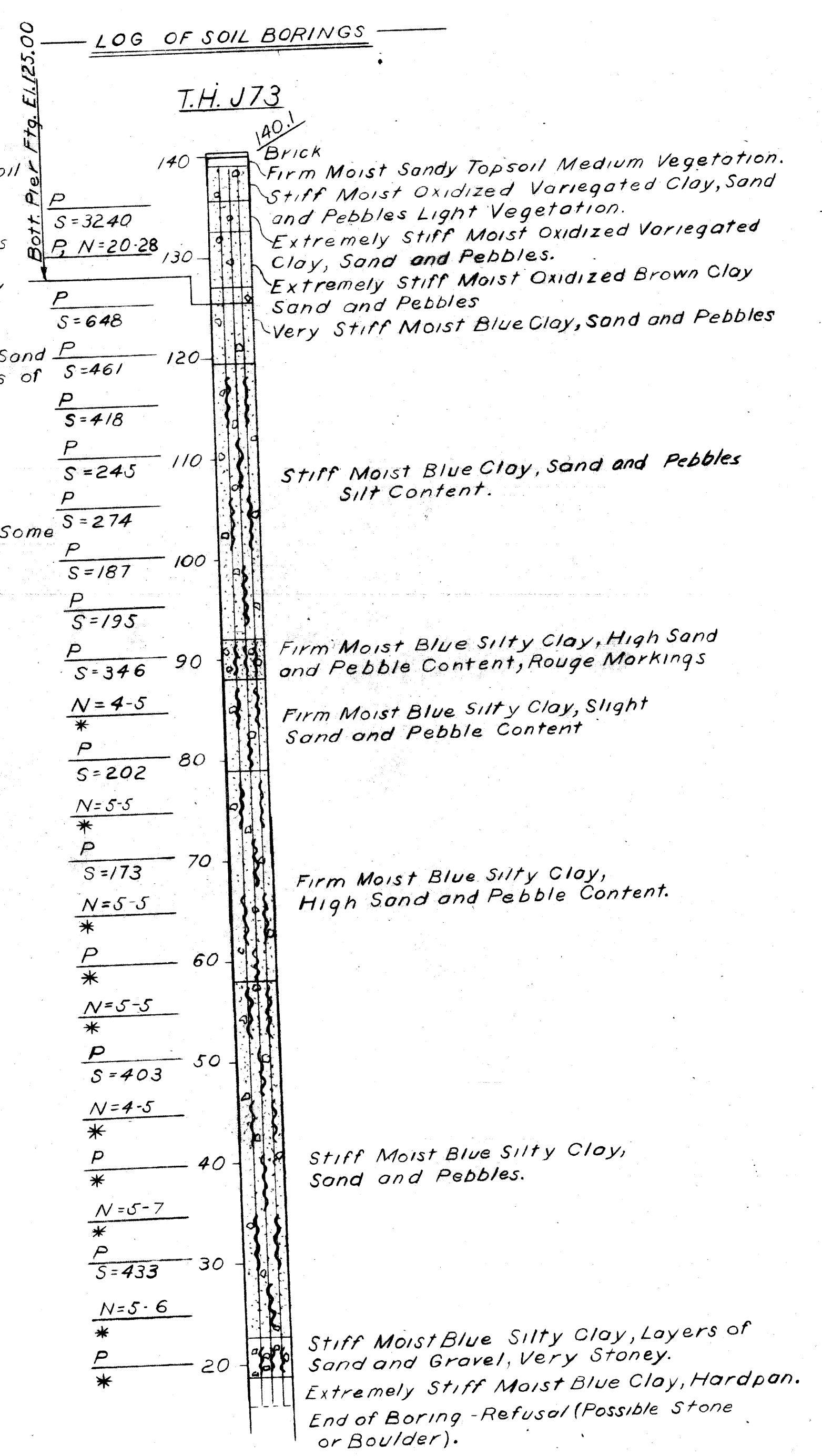
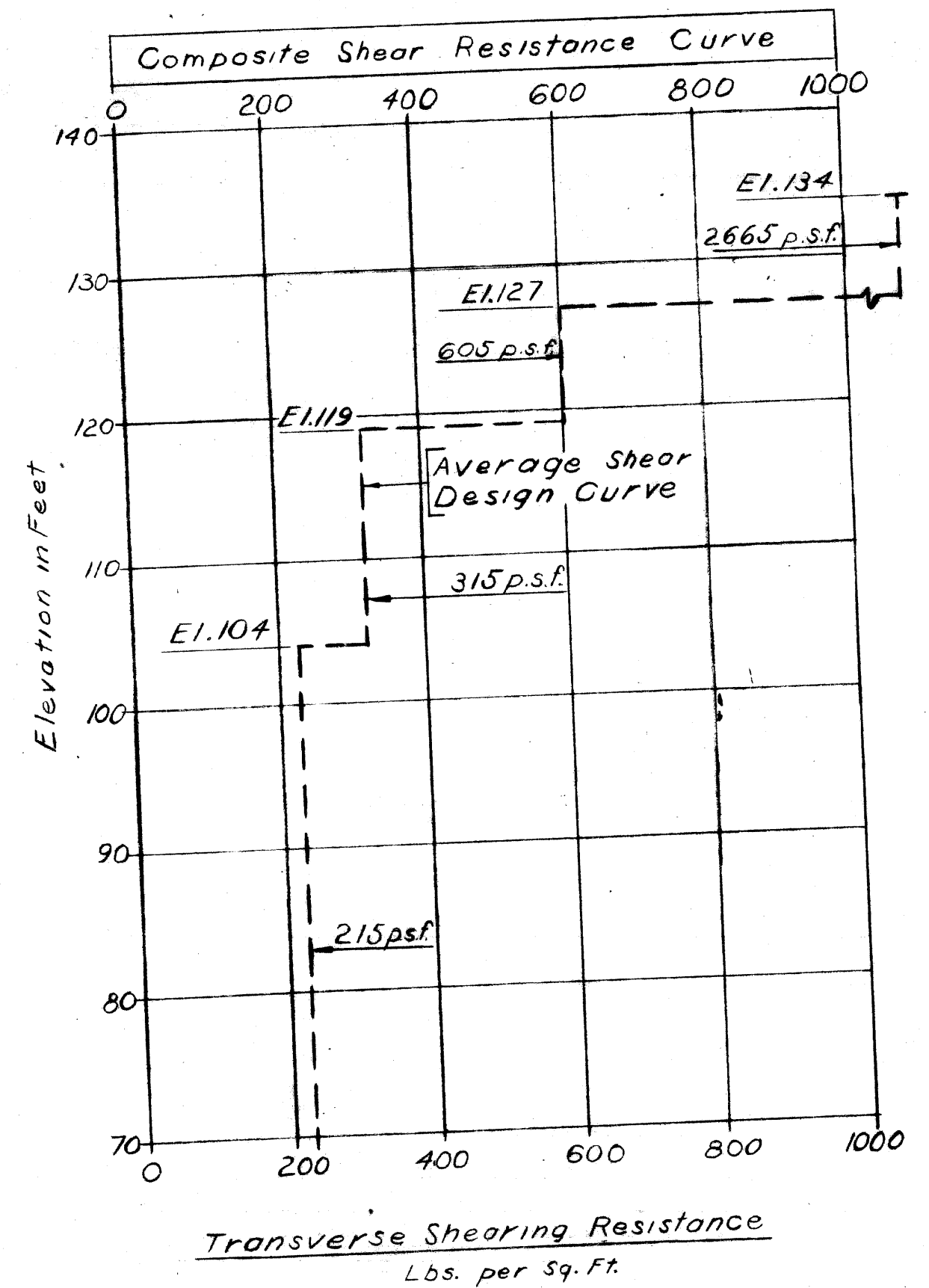
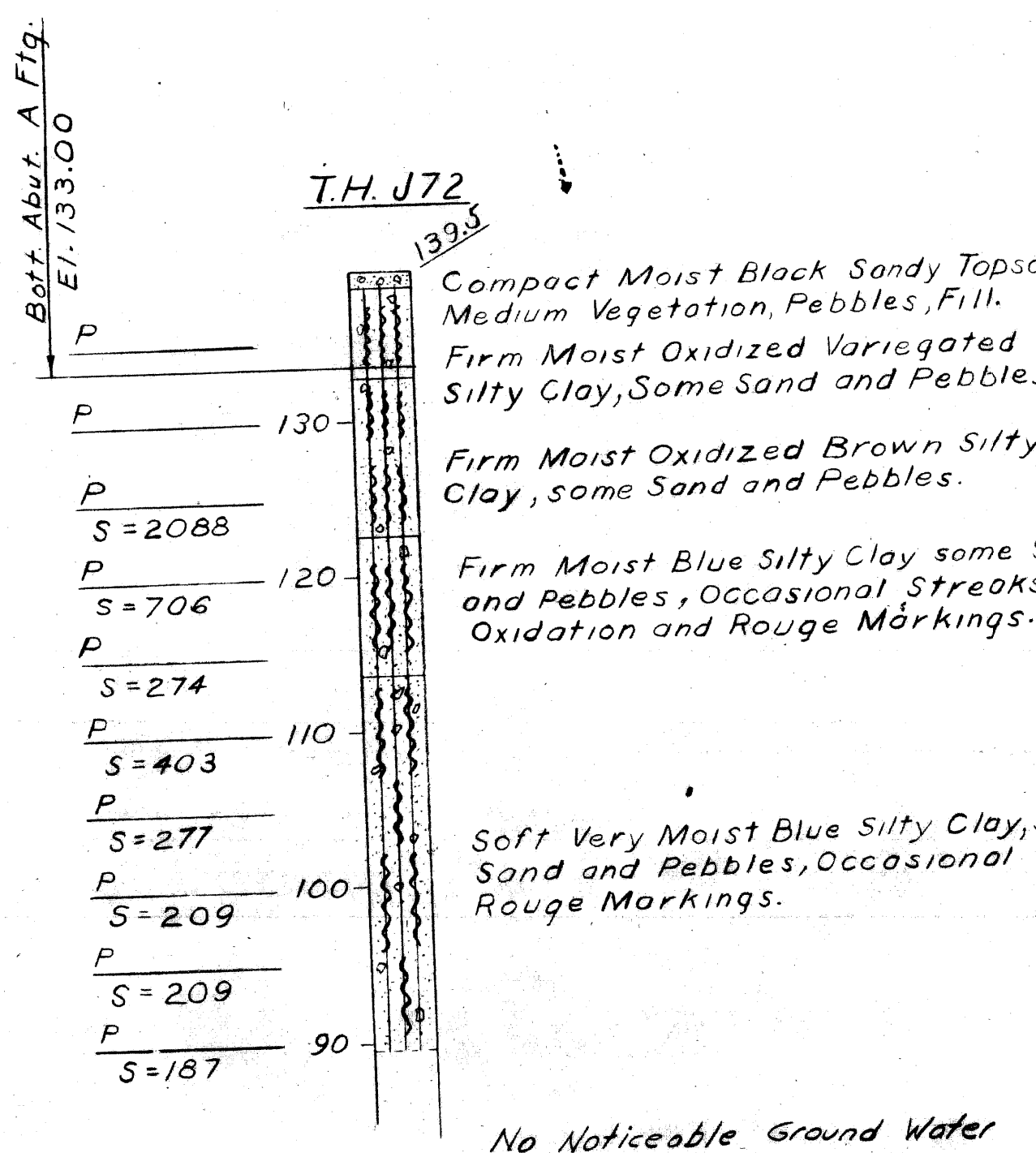
JOB No.
PW 990(3)

NO.	DESCRIPTION	DATE	BY

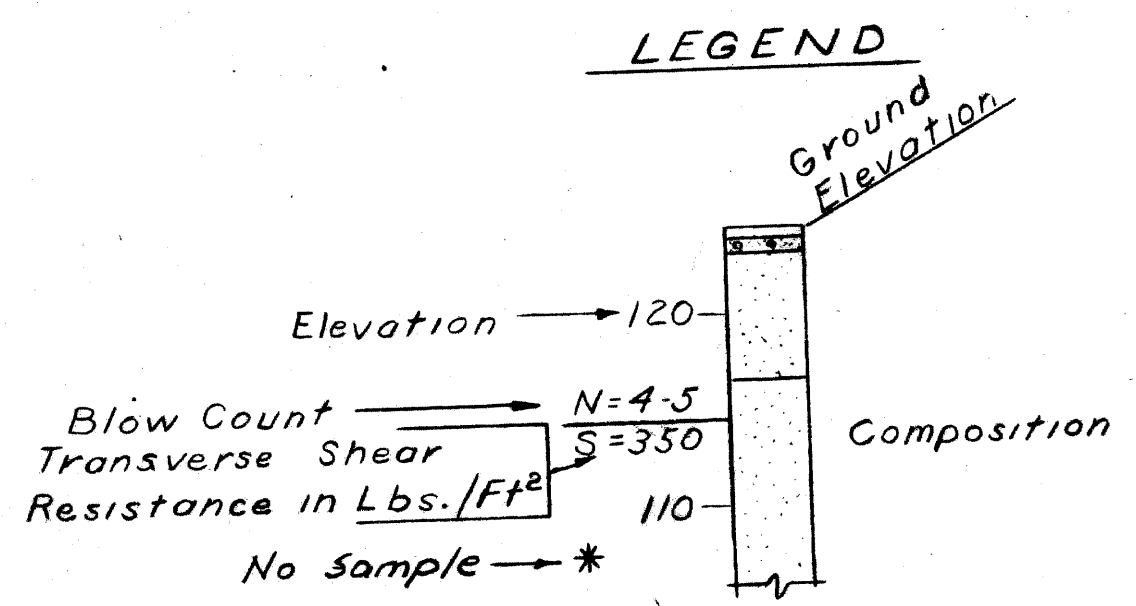
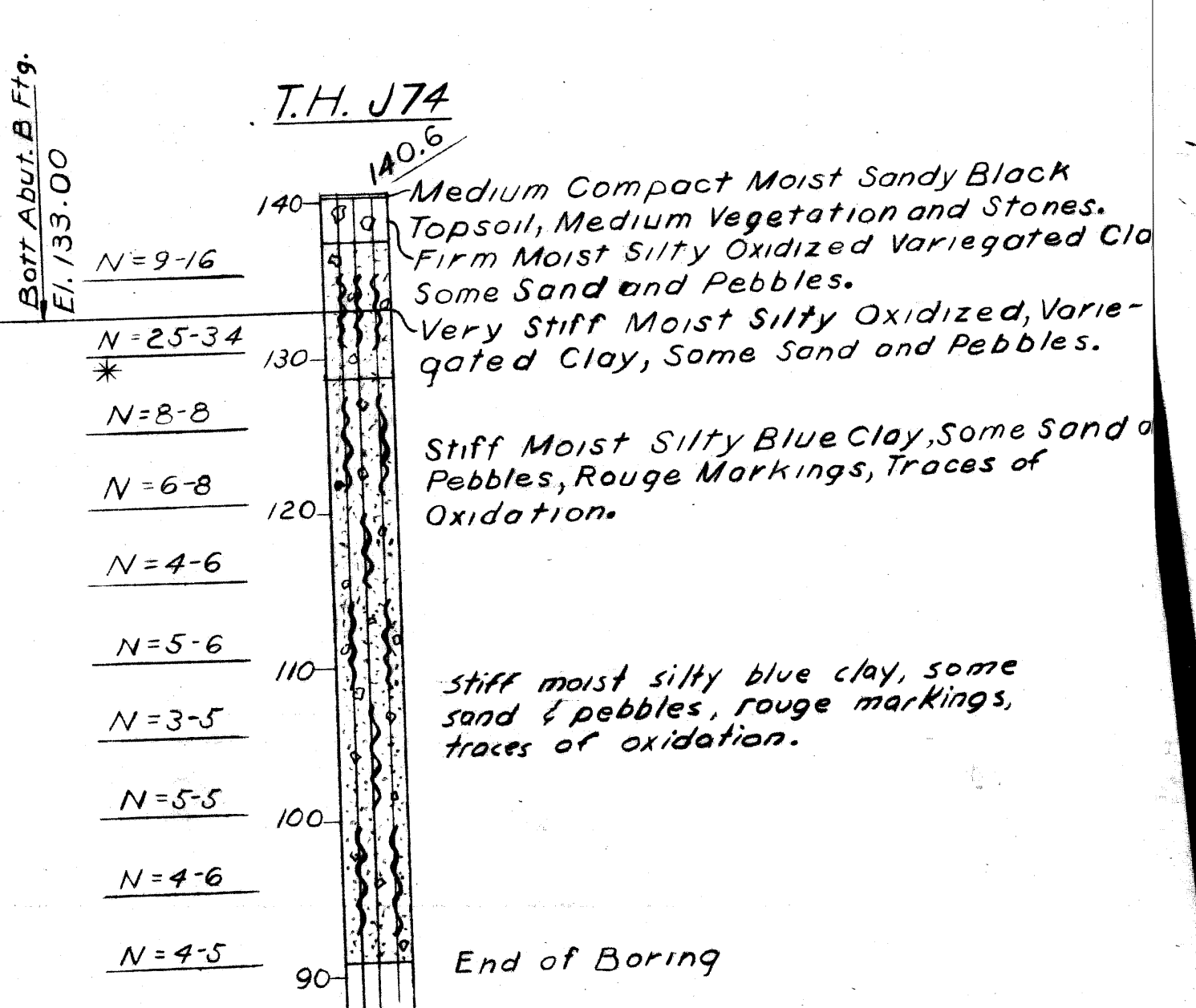
JIT OF DETROIT
DRAWN BY: K.M.A.G. 6-58
TRACED BY: -
CHECKED BY: -
SHEET 23 OF 16
P06 of 82123J



- UTILITY LEGEND**
- Sewer Inlet or Catchbasin
 - Sewer Manhole
 - P.L.C. Manhole
 - M.B.T. Manhole
 - D.E. Manhole
 - ⊗ Water Gate Well and Valve
 - Fire Hydrant
 - Detroit Edison Co. Pole
 - Test Hole for Soil Profile
 - D.F.D. Alarm Box
 - Tree (Size)
 - x- Fence



SAME REVIEW COMMENTS AS ON P04



NOTES:
 Blow Count - Indicates number of blows required to drive a sampler 6" (unless otherwise noted) using a 140" hammer falling 30".
 P - Indicates sampler was pushed.
 S - Indicates Transverse Shear Resistance in lbs./sq. ft. as determined by M.S.H.D. Standard Test.

GENERAL NOTES:
 The work covered by these plans includes construction of the proposed bridge and placing slope protection to the limits shown. All other work is included in the Road Plans which are part of this contract.
 Removal of fences and buildings is not part of this contract. The contractor shall locate all active underground utilities prior to starting work, and shall conduct his operation in such a manner as to insure that those utilities not requiring relocation will not be disturbed.
 Topography shown hereon represents conditions existing at the time the field survey was made. However, these conditions may have been materially altered by the operations of others before the work has been started.
 Unsuitable material under Abutments A & B shall be removed and backfilled with Granular Material Class III compacted to 100% of its maximum unit weight.

PRELIMINARY PLAN 'A' DATED 4-29-68
 BID LETTING DATE, MAY 13, 1969

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

APPROVED: _____
 STRUCTURAL ENGINEER
 REVISIONS

JOB NO.
 PW 990(3)

NO.	DESCRIPTION	DATE	BY

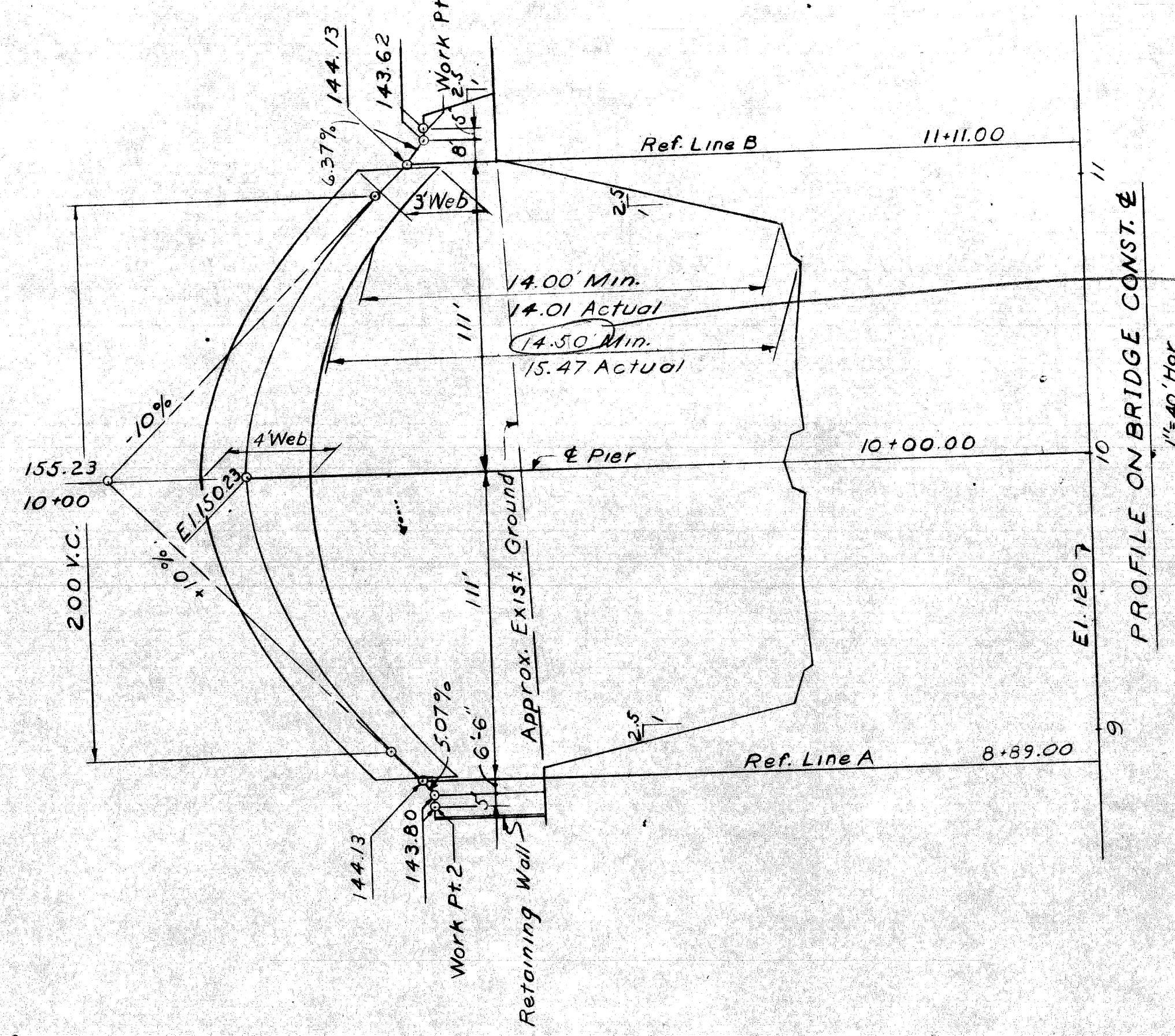
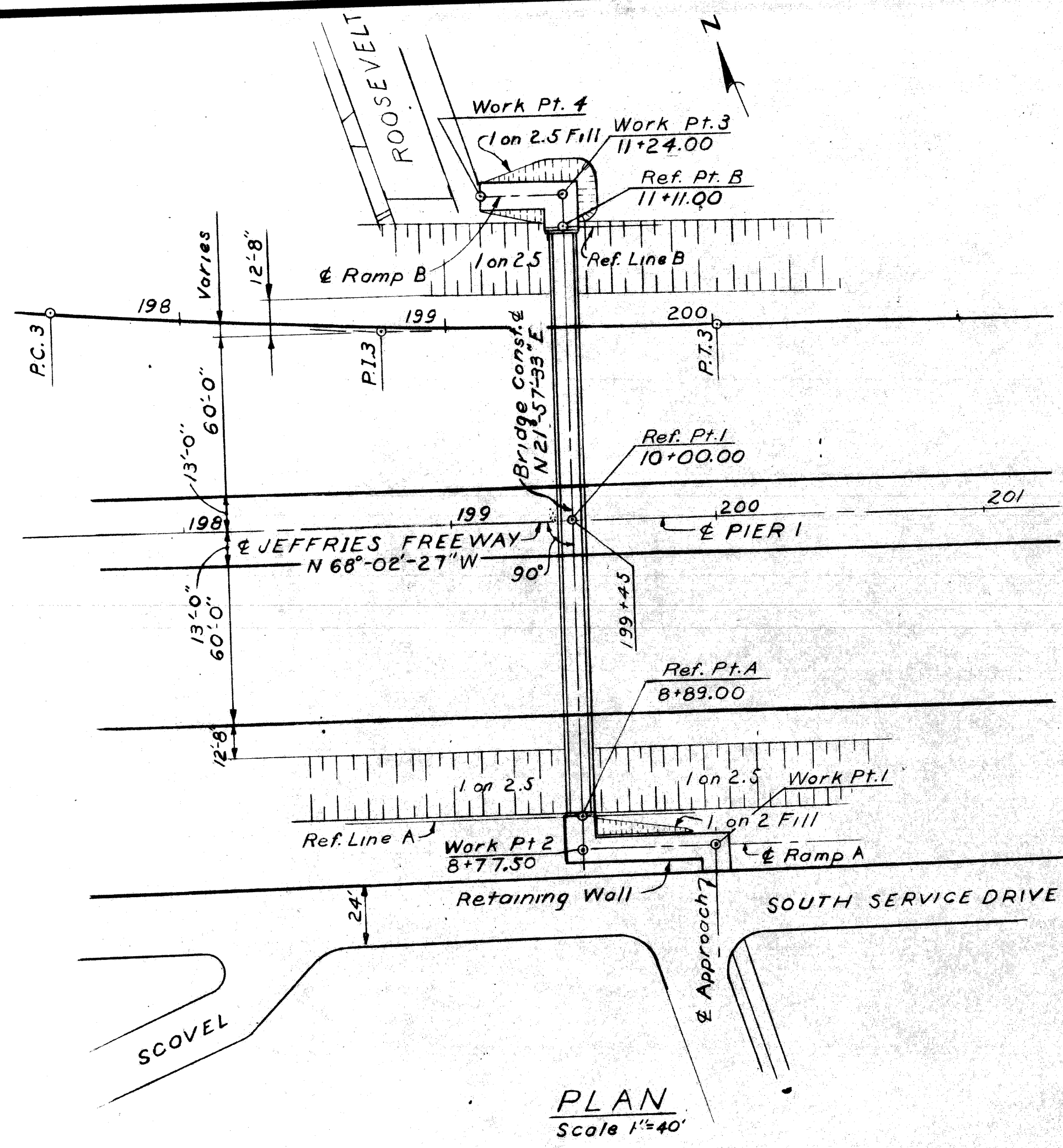
MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 ROOSEVELT PEDESTRIAN BRIDGE

GENERAL PLAN OF SITE

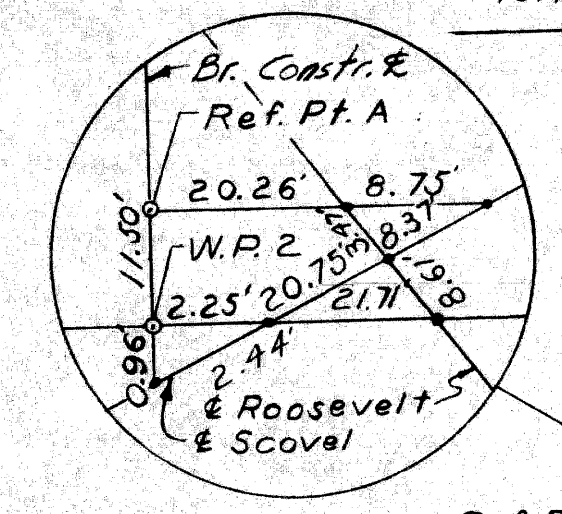
APPROVED: _____
 DESIGN SUPERVISING ENGINEER

APPROVED: _____
 ENGINEER OF DESIGN CONSULTANTS

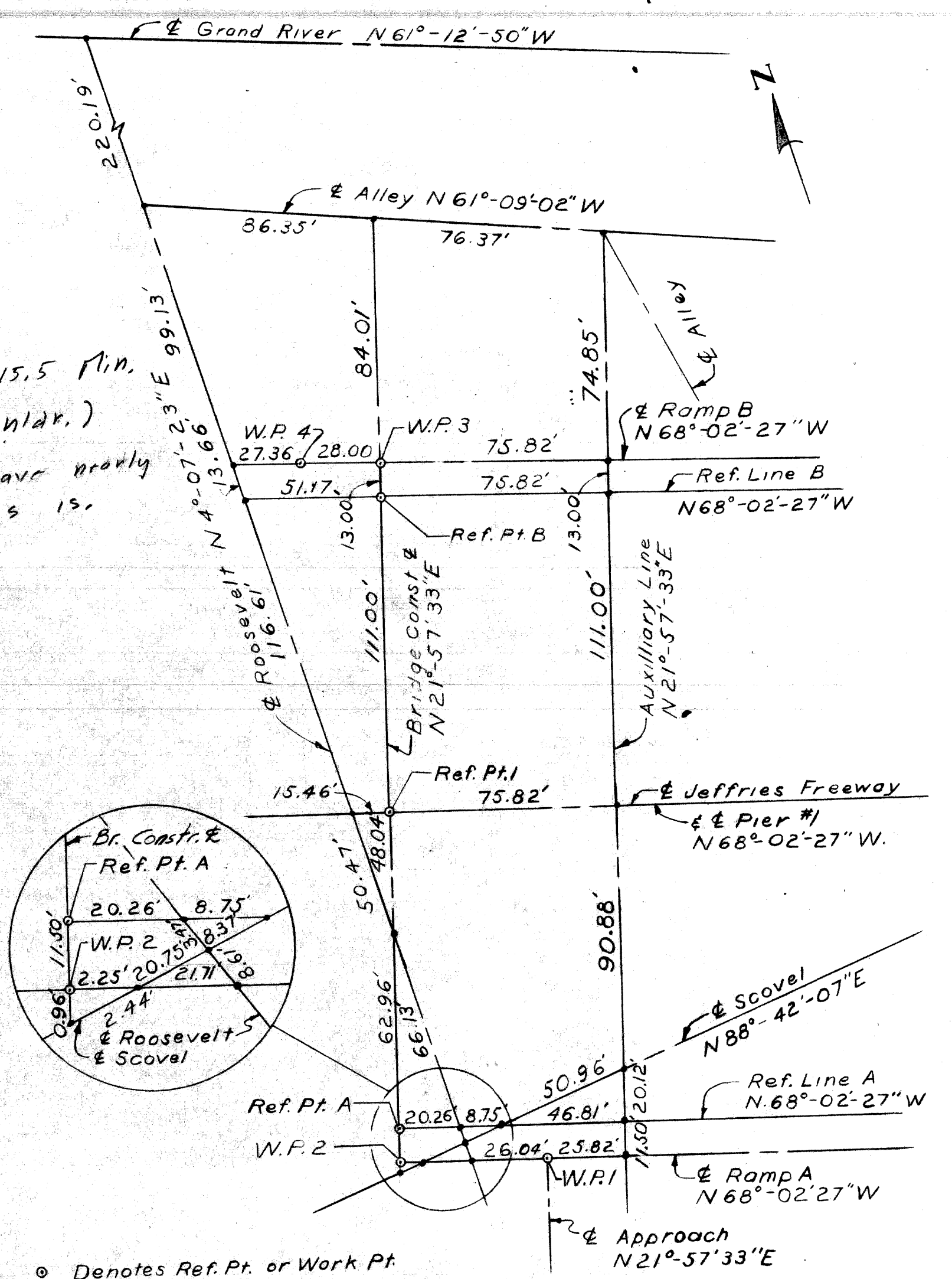
SQUAD BOSS: J. J. 3-68
 DRAWN BY: S. W. 3-68
 CHECKED BY: T.A.B. 4-69
 SHEET 1 of 5
 P06 of 82123J



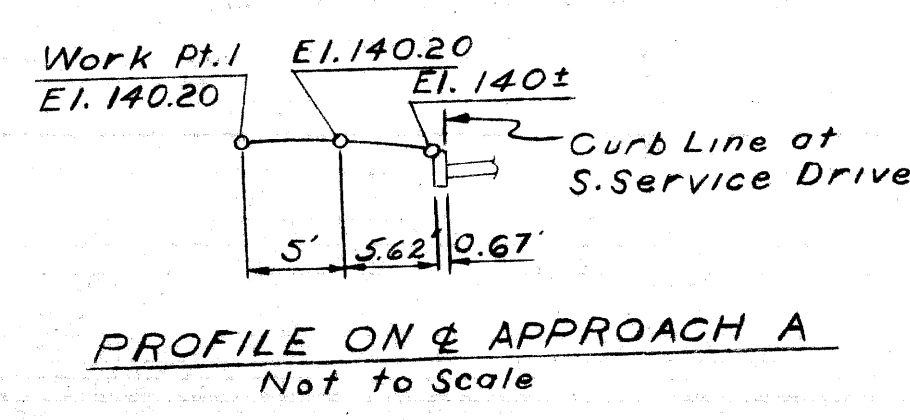
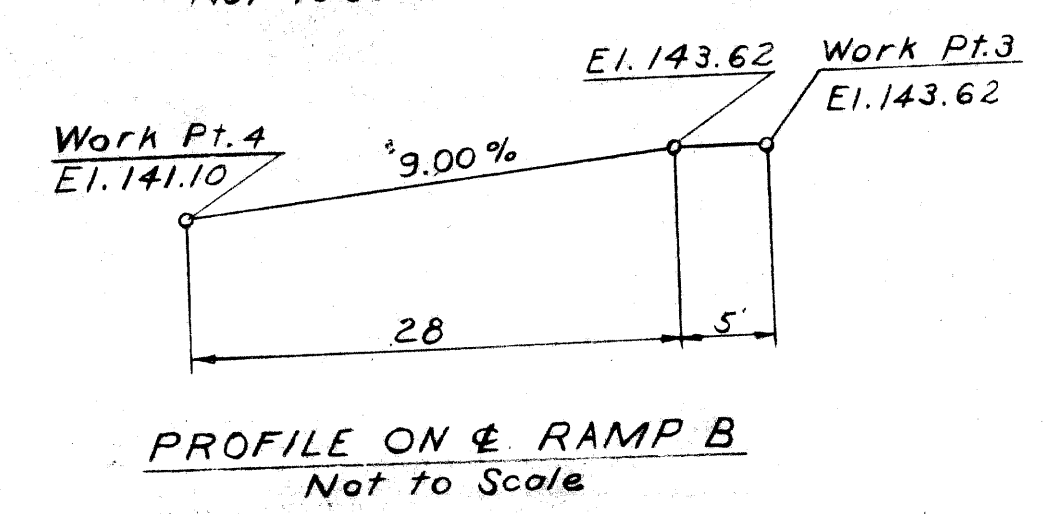
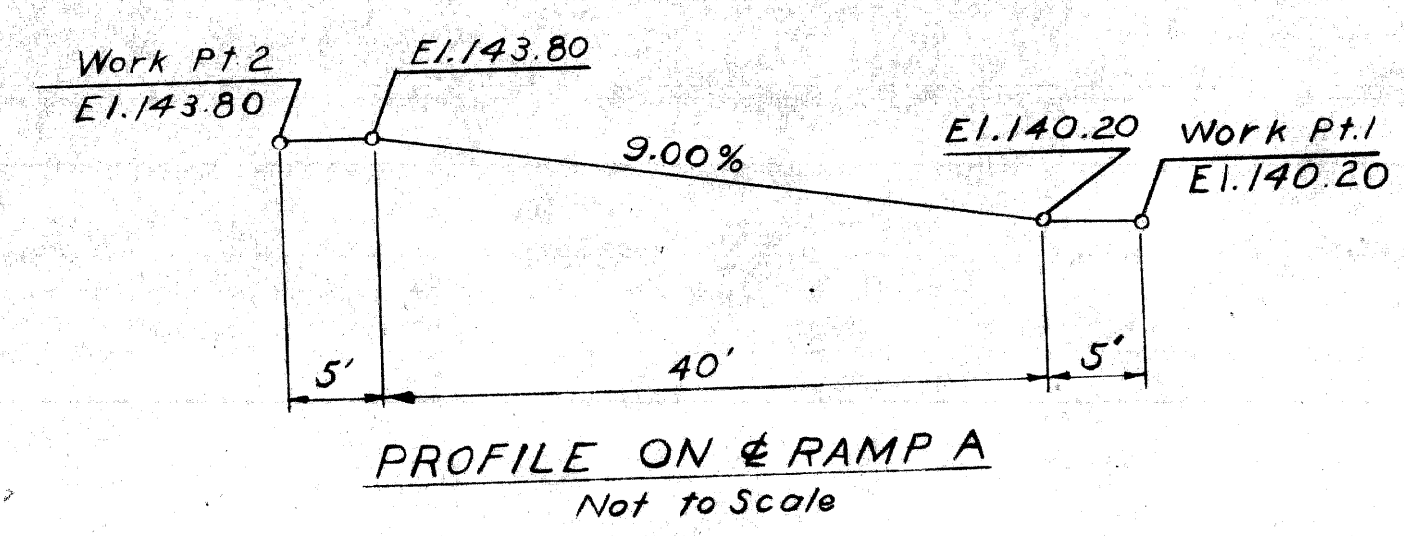
Should be 15.5 min.
(and 15 e. shlar.)
since we have nearly
15.5 leav as 15.



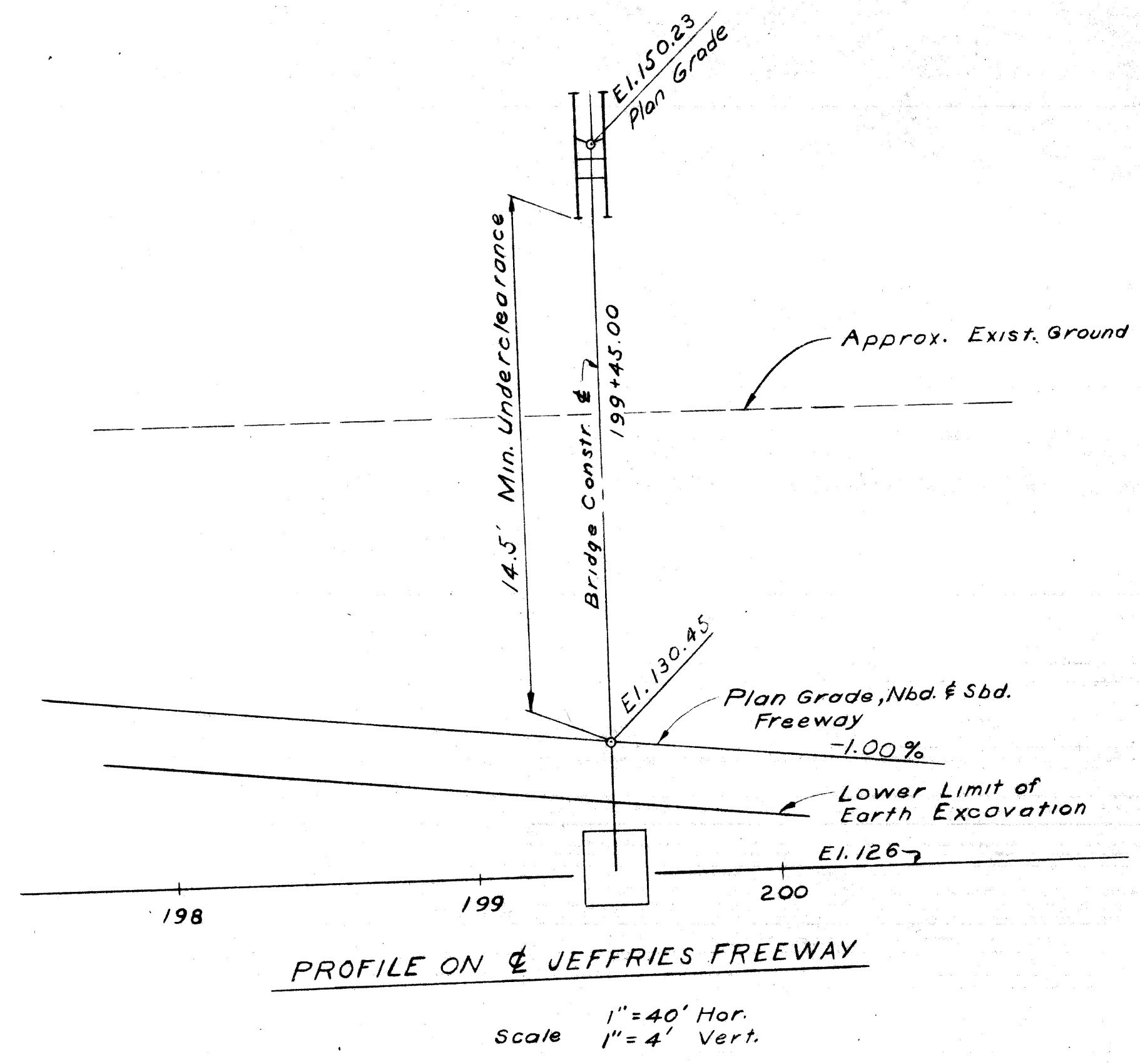
o Denotes Ref. Pt. or Work Pt.
• Denotes intersection



Construction Bench Marks:
 C.B.M. 70 El. 141.18 Arrow on Hydrant N.E. Corner Eastern and Roosevelt.
 C.B.M. 71 El. 144.94 Arrow on Hydrant N.W. Corner Roosevelt and Grand River.
 C.B.M. 72 El. 143.21 Arrow on Hydrant N.W. Corner Scovel and Taft.
 Elevations refer to City of Detroit Datum, 479.755 Feet above sea level.



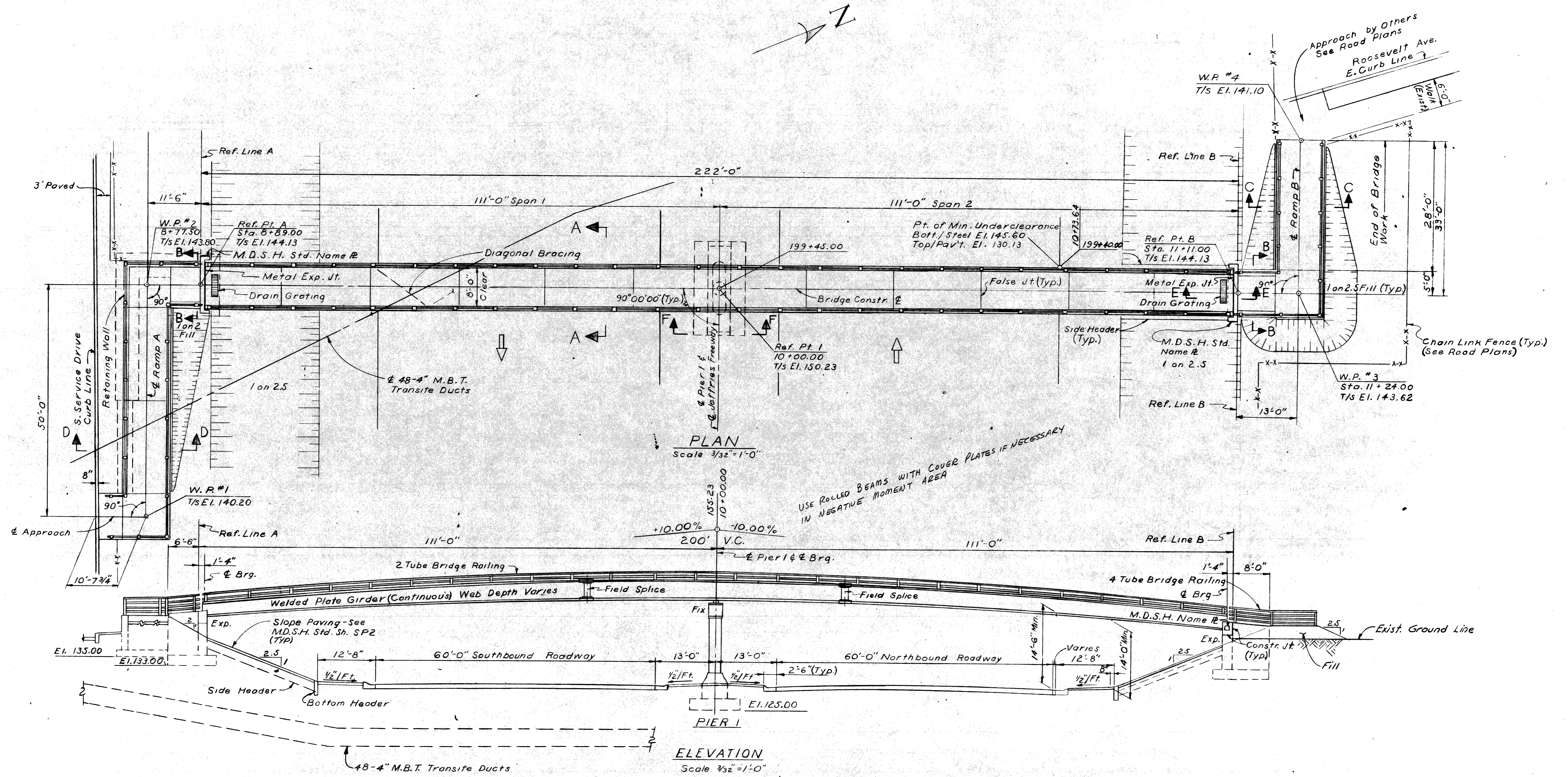
Note:
For Approach B Details
See Road Plans



PRELIMINARY PLAN 'A' DATED 4-29-68

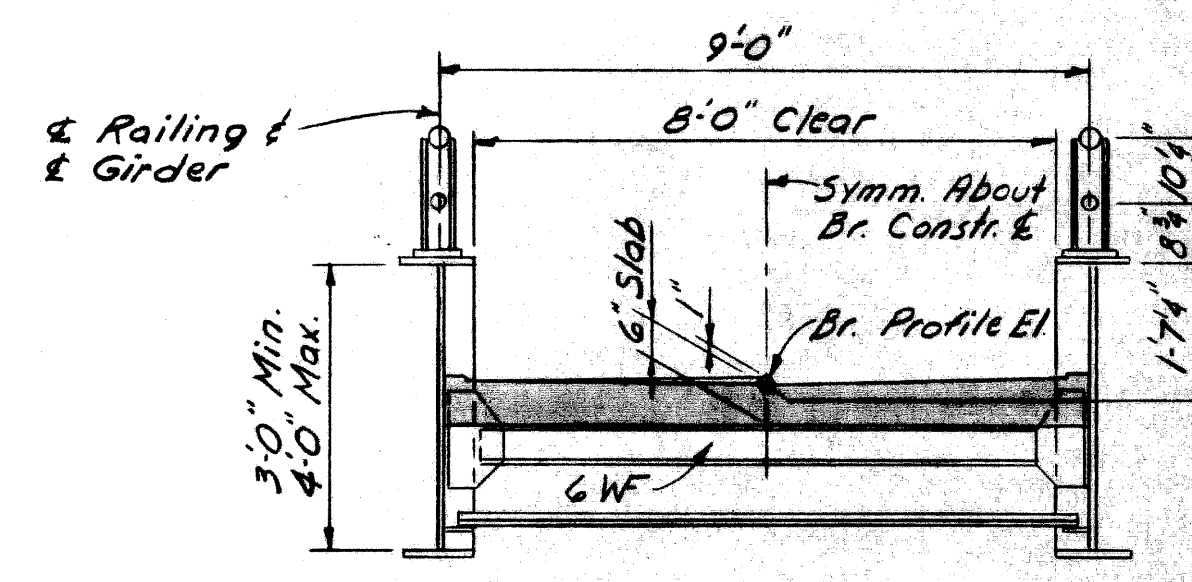
PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS			
APPROVED	STRUCTURAL ENGINEER	JOB No.	PW 990(3)
REVISIONS			
NO.	DESCRIPTION	DATE	BY

MICHIGAN STATE HIGHWAY DEPARTMENT		
GENERAL DRAWING		
APPROVED	DESIGN SUPERVISING ENGINEER	SQUAD BOSS DRAWN BY TRACED BY CHECKED BY SHEET 2 OF 5
APPROVED	ENGINEER OF DESIGN CONSULTANTS	P06 of 82123J

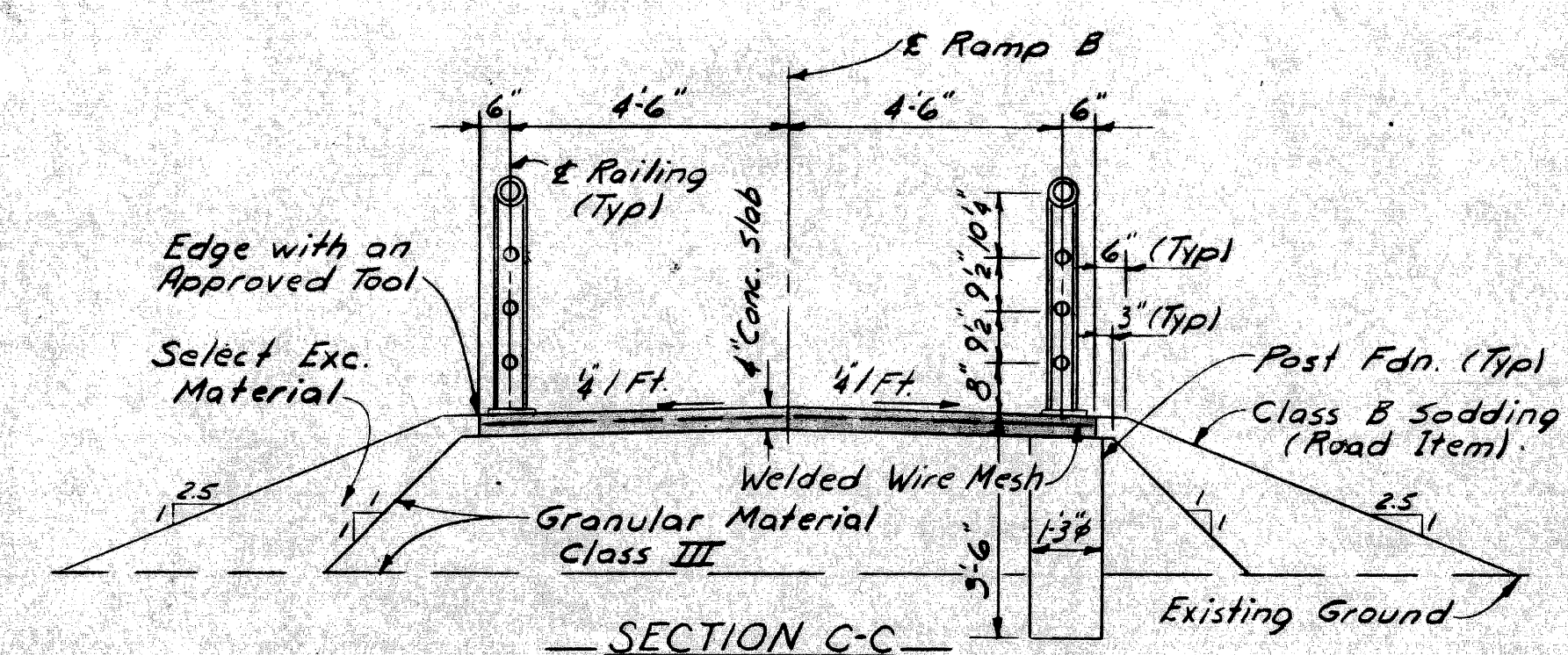


PRELIMINARY PLAN 'A'
DATED 4-29-68

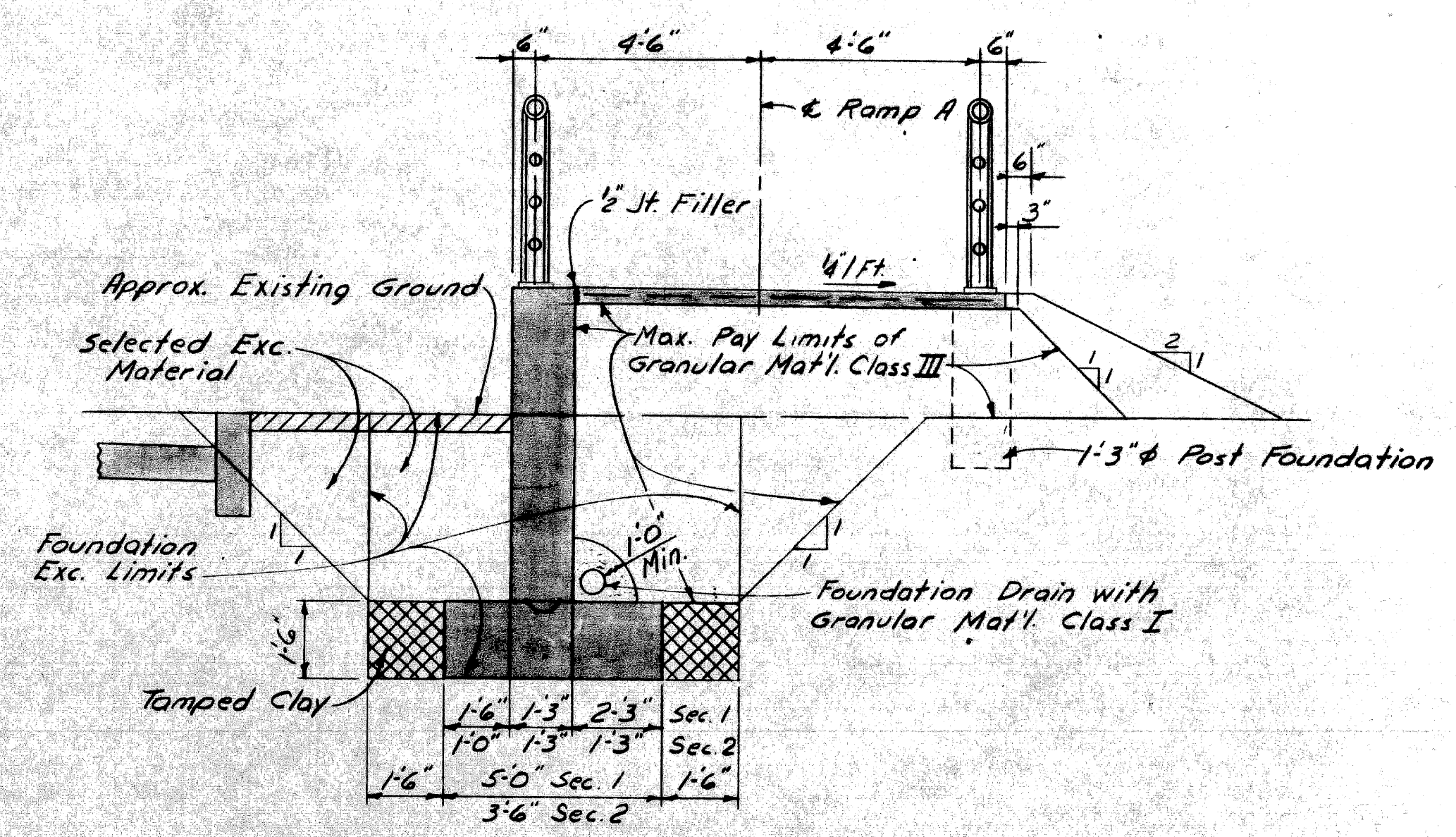
PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS		JOB No. PW 990(3)																									
APPROVED _____ STRUCTURAL ENGINEER		APPROVED _____ DESIGN SUPERVISING ENGINEER																									
APPROVED _____ ENGINEER OF DESIGN CONSULTANTS		APPROVED _____																									
<table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DESCRIPTION	DATE	BY									<table border="1"> <tr> <td>SQUAD BOSS</td> <td>P.J.</td> <td>8-68</td> </tr> <tr> <td>DRAWN BY</td> <td>SPURGEON</td> <td> </td> </tr> <tr> <td>CHECKED BY</td> <td>T.A.B.</td> <td>4-68</td> </tr> <tr> <td colspan="3">SHEET 3 OF 5</td> </tr> </table>		SQUAD BOSS	P.J.	8-68	DRAWN BY	SPURGEON		CHECKED BY	T.A.B.	4-68	SHEET 3 OF 5		
NO.	DESCRIPTION	DATE	BY																								
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SHEET 3 OF 5																											



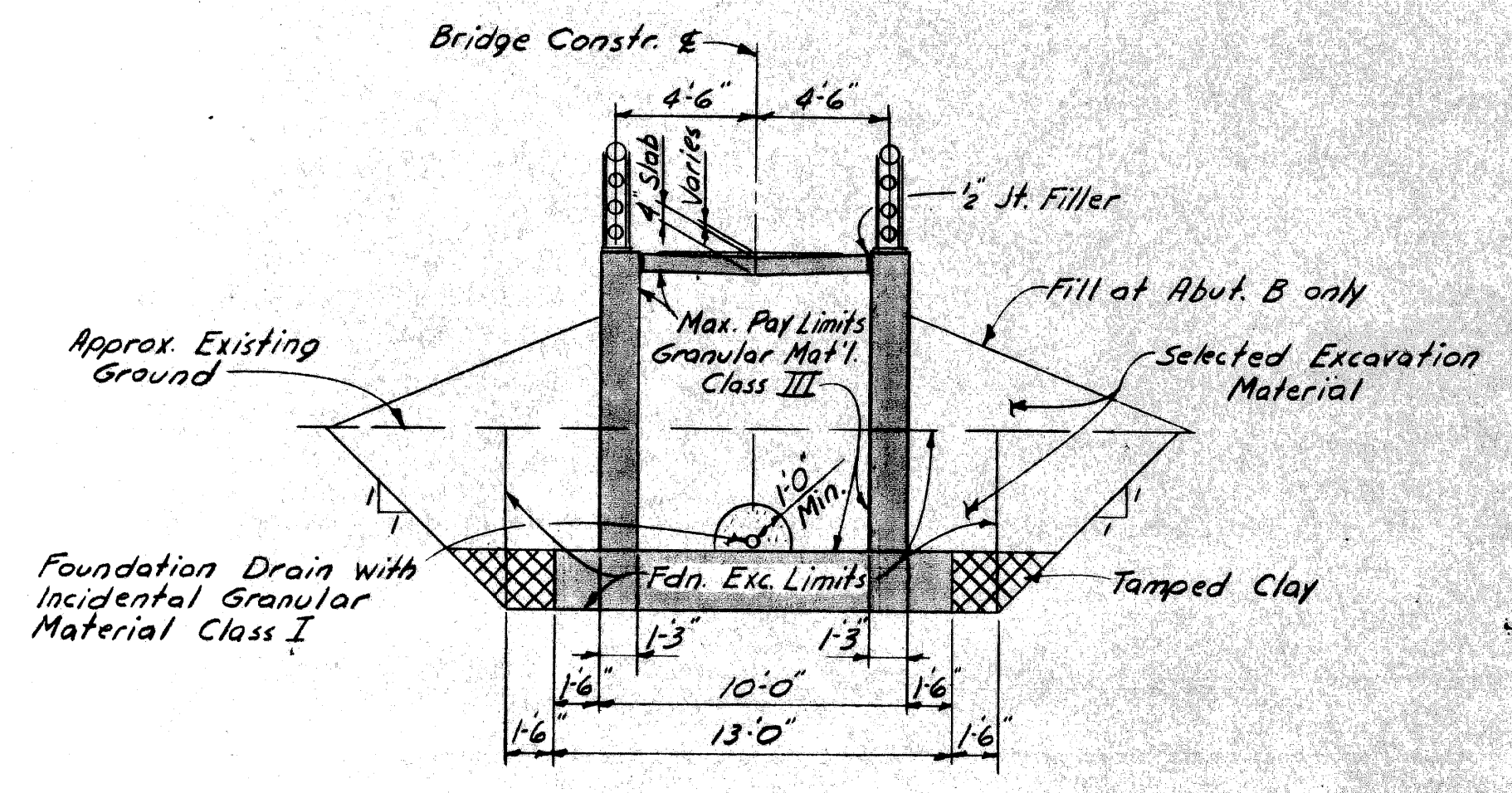
SECTION A-A
Scale: 3/8" = 1'-0"



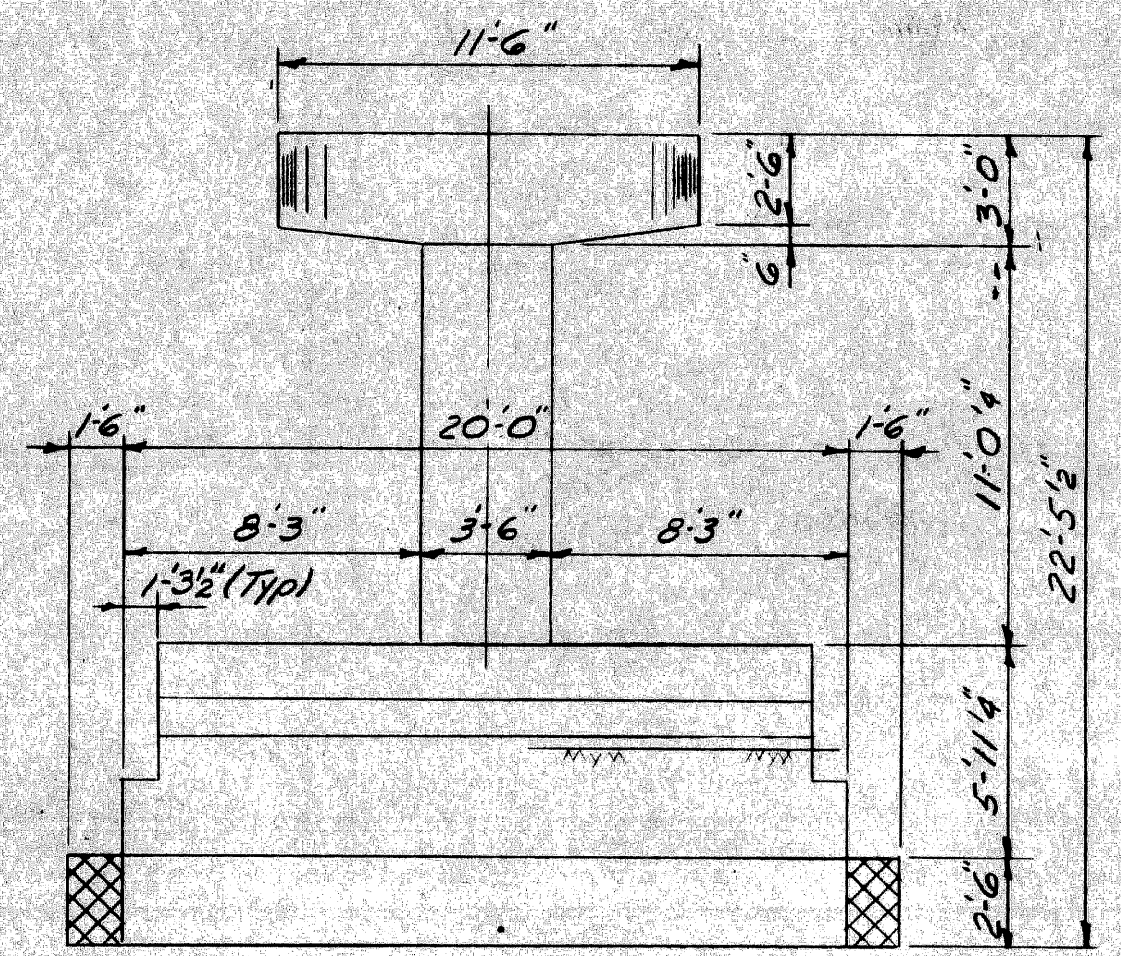
SECTION C-C
Scale: 3/8" = 1'-0"



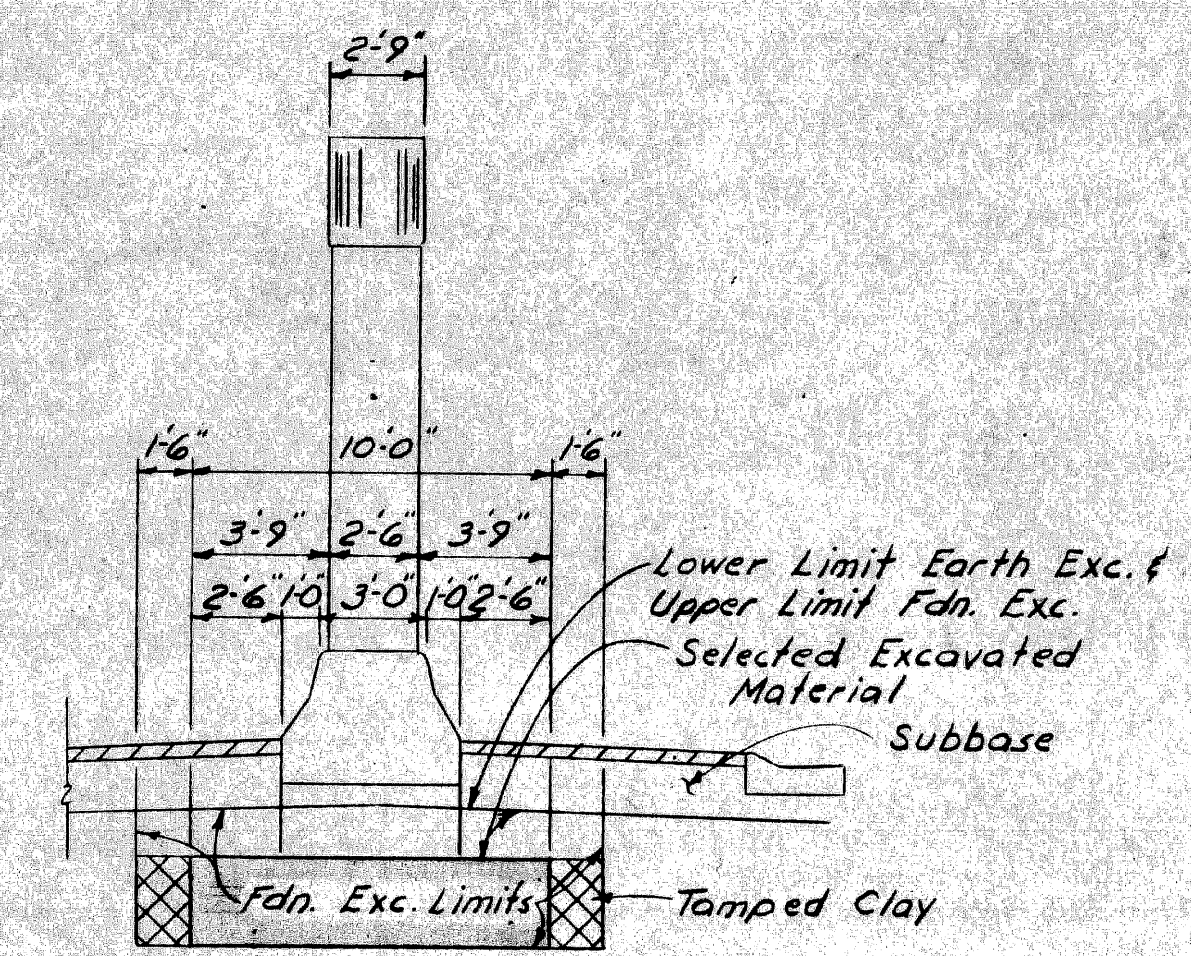
SECTION D-D
Scale: 3/8" = 1'-0"



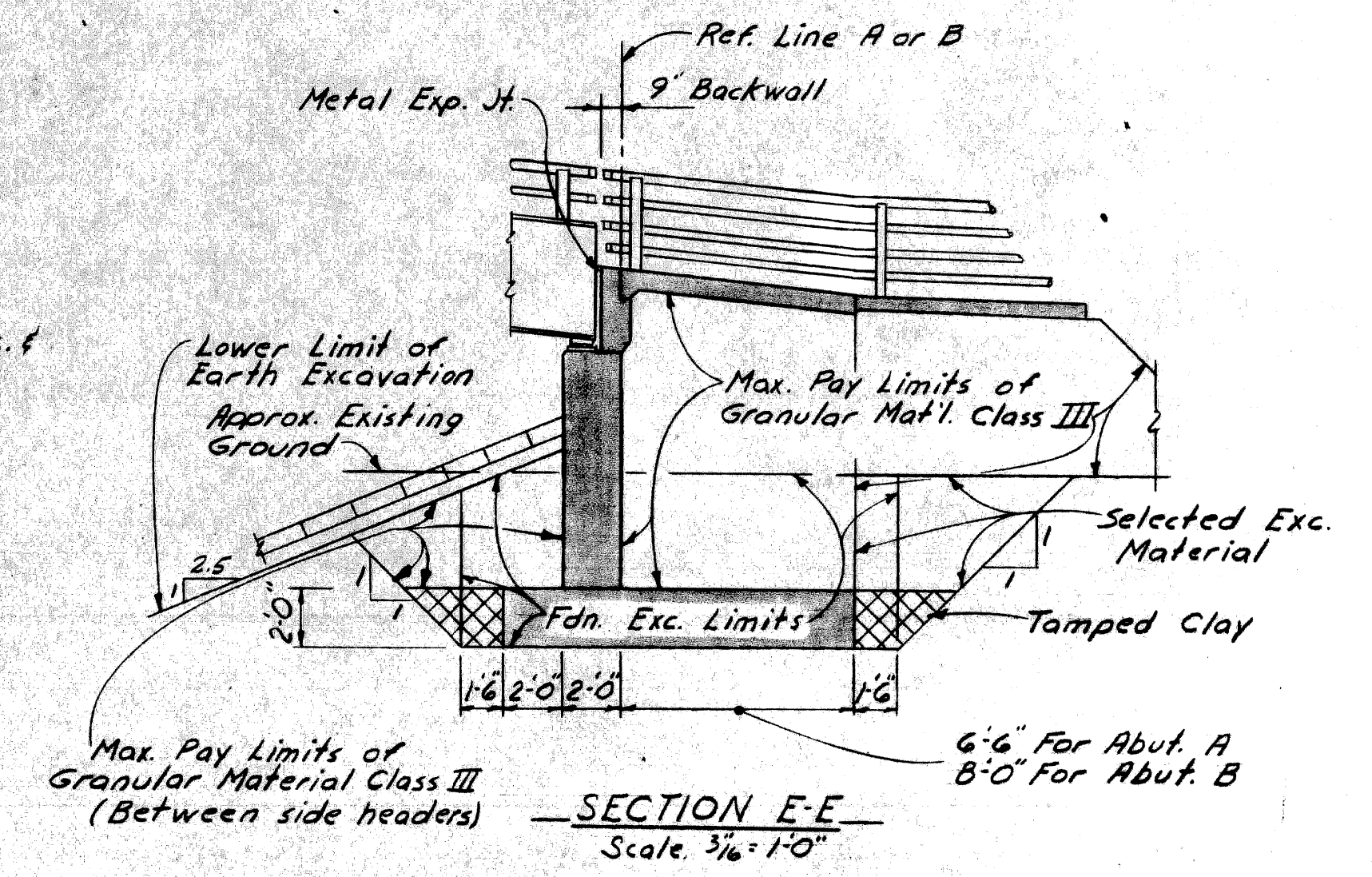
SECTION B-B
Scale: 3/16" = 1'-0"



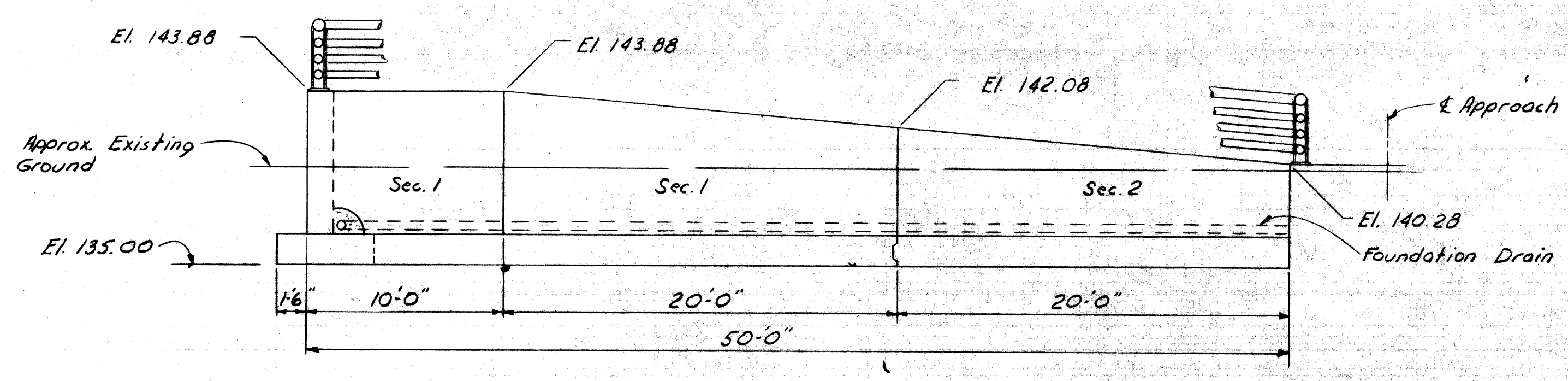
PIER ELEVATION
Scale: 3/16" = 1'-0"



SECTION F-F
Scale: 3/16" = 1'-0"



SECTION E-E
Scale: 3/16" = 1'-0"



ELEVATION AT RAMP A RETAINING WALL
Scale: 3/16" = 1'-0"

GENERAL NOTES:

The design of this structure is based on the M.D.S.H. Specifications for the design of Highway Bridges, 1958 edition and current A.A.S.H.O. Standard Specifications for Highway Bridges.

Live Load
 Concrete Slab & Floor Beams ... 85 p.s.f.
 Stringers ... 60 p.s.f.
 Alternate Live Loading ... One 5 ton truck plus impact.

The top of slab is parallel to the vertical curve and tangents.

For details of Slope Protection, see Standard Sheet SP2.

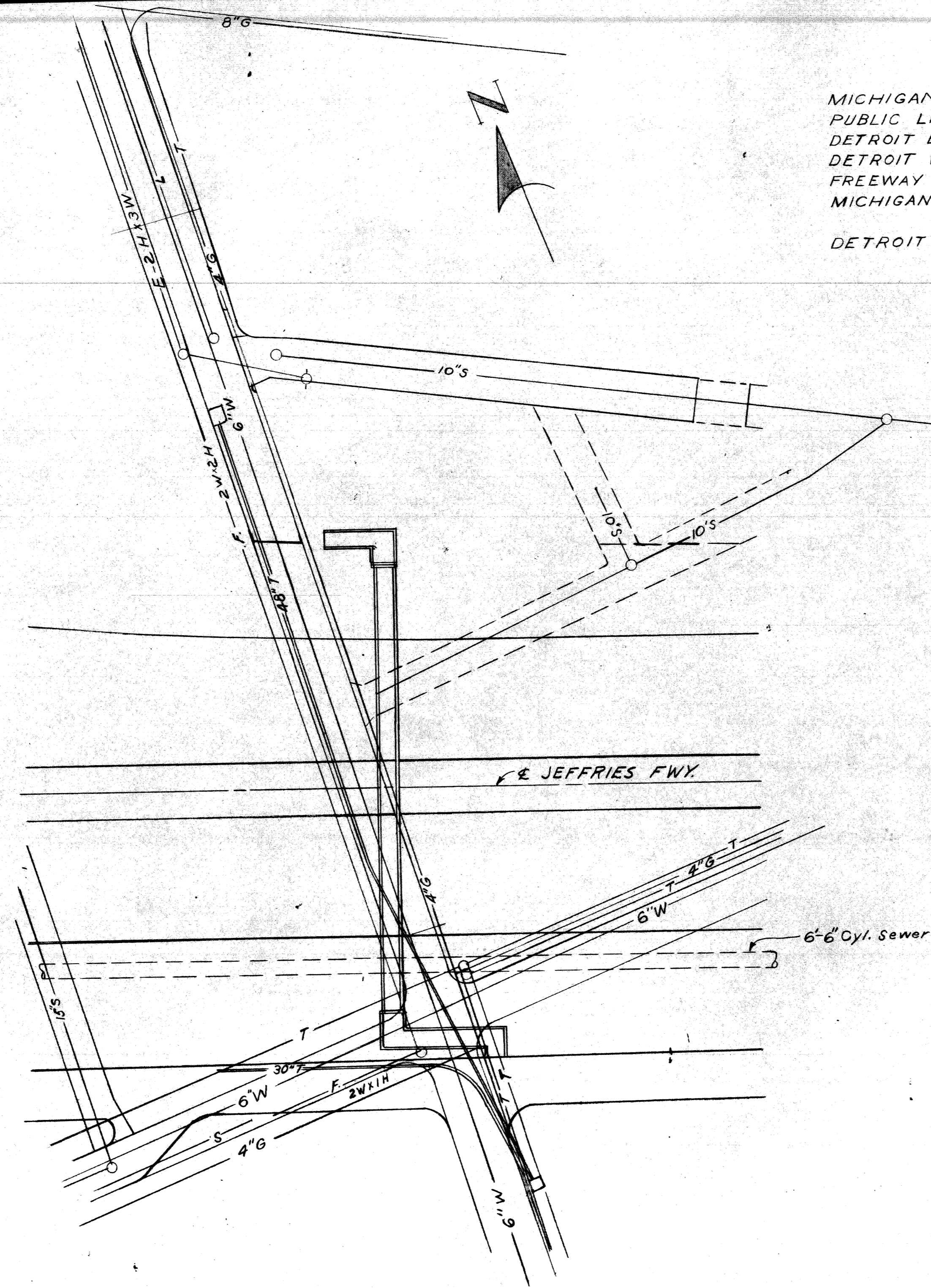
Tamped Clay and Selected Excavated Material are incidental to Unclassified Excavation. Granular Material-Class I is incidental to Foundation Drain.

The design is based on a maximum average foundation pressure of 1650 p.s.f. at Abuts. & 1850 p.s.f. at Pier based on D.L. only and a maximum foundation pressure of 2600 p.s.f. at Abuts. & 2200 p.s.f. at Pier based on D.L. and L.L.

PRELIMINARY PLAN A DATED 4-29-68

PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS			
APPROVED _____ STRUCTURAL ENGINEER	JOB No. PW 99033		
REVISIONS			
NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF STATE HIGHWAYS	
GENERAL PLAN OF STRUCTURE	
APPROVED _____ DESIGN SUPERVISING ENGINEER	APPROVED _____ ENGINEER OF DESIGN CONSULTANTS
SHEET 4 OF 5	
P06 of 82123J	



SITUATION PLAN
Scale 1"=40'

UTILITY	LEGEND			
	EXISTING	DELETED OR ABANDONED	NEW WORK BY OTHERS	NEW WORK BY CONTRACTOR
MICHIGAN CONSOLIDATED GAS	— G —			
PUBLIC LIGHTING COMMISSION	— L —			
DETROIT EDISON COMPANY	— E —			
DETROIT WATER DEPARTMENT	— W —			
FREEWAY & CITY OF DETROIT SEWERS	— S —			
MICHIGAN BELL TELEPHONE COMPANY	— T —			
M.B.T. DUCT TUNNEL	— T —			
DETROIT FIRE DEPARTMENT	— F —			

PRELIMINARY PLAN 'A'
DATED 4-29-68

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

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

APPROVED _____
STRUCTURAL ENGINEER

EXISTING UTILITIES AND PROPOSED ALTERATIONS

REVISIONS

NO.	DESCRIPTION	DATE	BY

JOB No.
PW 990(3)

SQUAD BOSS	E.J.	3-68
DRAWN BY	SPURGEON	
TRACED BY		
CHECKED BY	T.A.B.	4-68
SHEET 3 OF 5		

P06 of 82123J