

STATE OF MICHIGAN DEPARTMENT OF STATE HIGHWAYS

PLANS OF PROPOSED MICHIGAN PROJECT I-96 STATE PROJECT I-82122I & I-82122J JEFFRIES FREEWAY WAYNE COUNTY CITY OF DETROIT

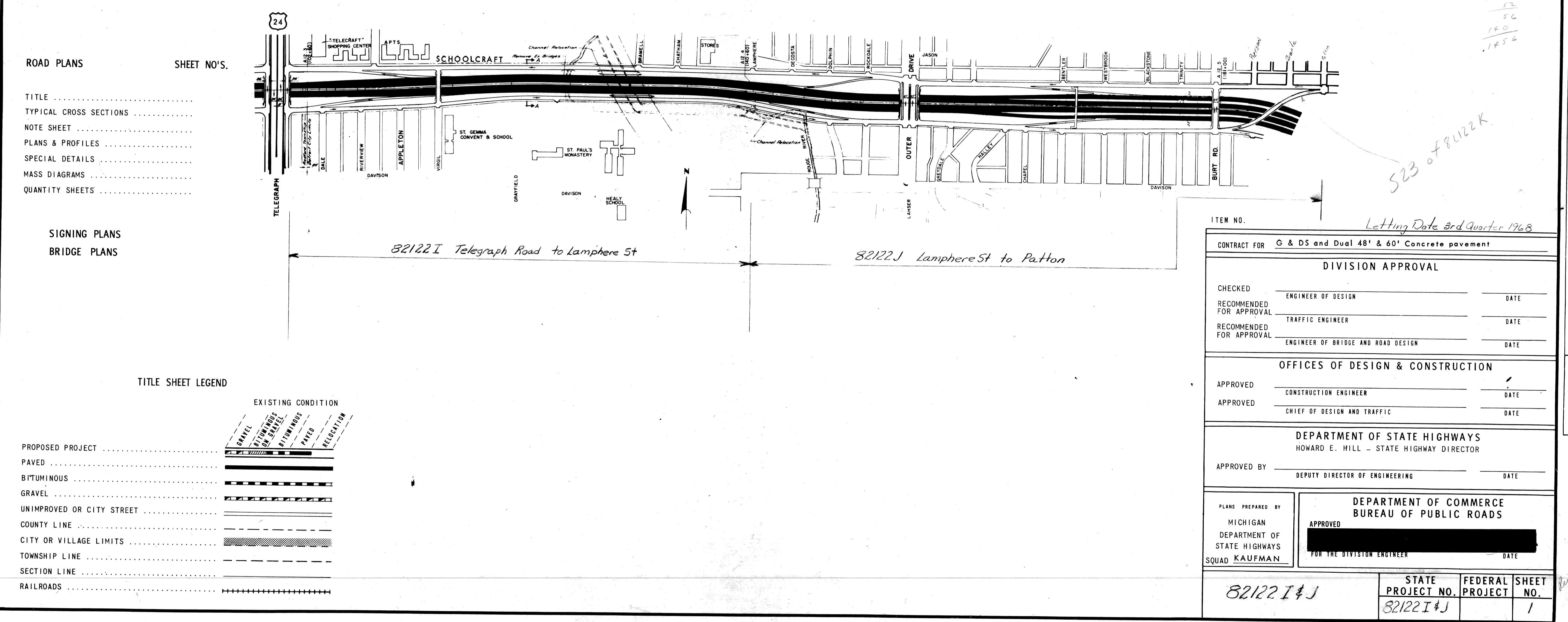
ROUTE	STATE PROJECT NO.	FEDERAL NO.	SHEET NO.	TOTAL SHEETS
96	82122I&J		1	

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF STATE HIGHWAYS CURRENT STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

LEGEND

A. D. T.	77,800 EACH DIRECTION
D. H. V.	7,000
COMM.	
DESIGN SPEED	60 MPH

BORROW REQUIREMENTS				
WHERE REQUIRED STA. TO STA.	AMT. REQUIRED CYDS.	AMT. AVAILABLE CYDS.	SOILS SERIES	BORROW AREA
REGULAR BORROW				
	None			
			SUBBASE Borrow	
POB to POE	125,000		GRANULAR BACKFILL	
POB to POE (Sewer)	15,000			
			SUBGRADE UNDERCUTTING	
ENTIRE PROJECT	?			



ROAD PLANS

SHEET NO'S.

TITLE
TYPICAL CROSS SECTIONS
NOTE SHEET
PLANS & PROFILES
SPECIAL DETAILS
MASS DIAGRAMS
QUANTITY SHEETS

SIGNING PLANS

BRIDGE PLANS

TITLE SHEET LEGEND

PROPOSED PROJECT	EXISTING CONDITION
GRAVEL	GRAVEL
BITUMINOUS ON GRAVEL	BITUMINOUS ON GRAVEL
BITUMINOUS	BITUMINOUS
PAVED	PAVED
RELOCATION	RELOCATION
PAVED	PAVED
BITUMINOUS	BITUMINOUS
GRAVEL	GRAVEL
UNIMPROVED OR CITY STREET	UNIMPROVED OR CITY STREET
COUNTY LINE	COUNTY LINE
CITY OR VILLAGE LIMITS	CITY OR VILLAGE LIMITS
TOWNSHIP LINE	TOWNSHIP LINE
SECTION LINE	SECTION LINE
RAILROADS	RAILROADS

ITEM NO. *Letting Date 3rd Quarter 1968*

CONTRACT FOR **G & DS and Dual 48' & 60' Concrete pavement**

DIVISION APPROVAL

CHECKED	ENGINEER OF DESIGN	DATE
RECOMMENDED FOR APPROVAL	TRAFFIC ENGINEER	DATE
RECOMMENDED FOR APPROVAL	ENGINEER OF BRIDGE AND ROAD DESIGN	DATE

OFFICES OF DESIGN & CONSTRUCTION

APPROVED	CONSTRUCTION ENGINEER	DATE
APPROVED	CHIEF OF DESIGN AND TRAFFIC	DATE

DEPARTMENT OF STATE HIGHWAYS
HOWARD E. HILL - STATE HIGHWAY DIRECTOR

APPROVED BY _____ DEPUTY DIRECTOR OF ENGINEERING _____ DATE _____

PLANS PREPARED BY
MICHIGAN DEPARTMENT OF STATE HIGHWAYS
SQUAD KAUFMAN

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED _____ FOR THE DIVISION ENGINEER _____ DATE _____

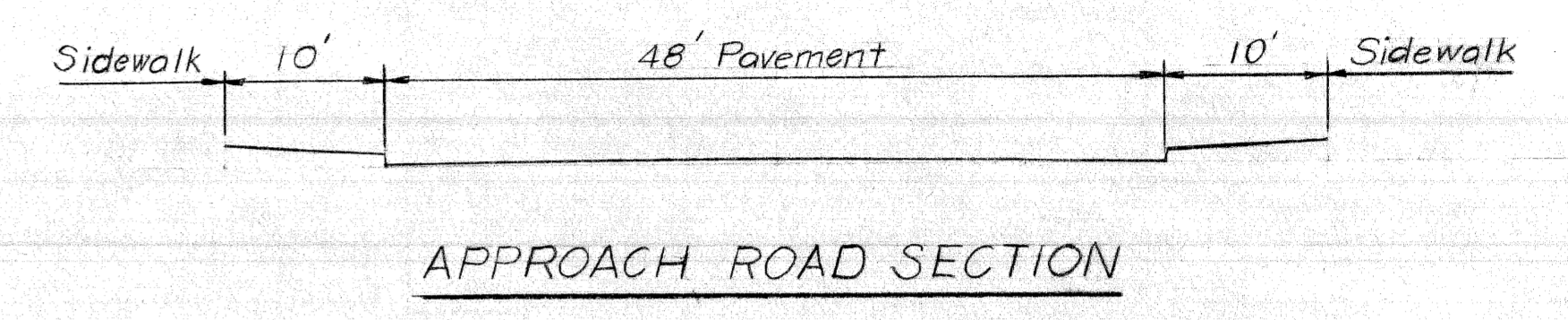
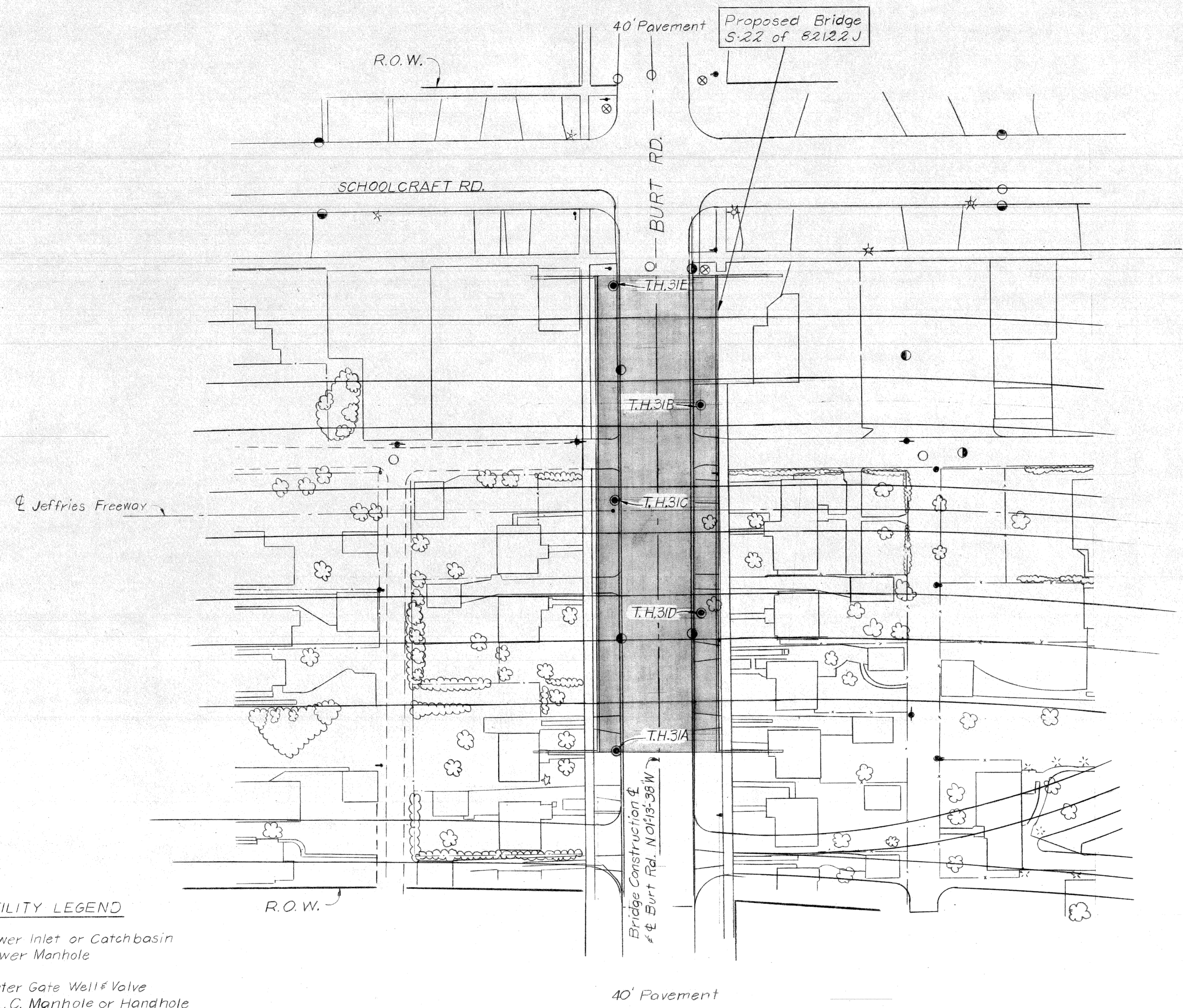
82122I&J	STATE PROJECT NO.	FEDERAL PROJECT	SHEET NO.
	82122I&J		1

25
52
56
140
1456

523 of 82122K

STATE PROJECT NO. 25A

22-1-1267



- UTILITY LEGEND**
- Sewer Inlet or Catchbasin
 - Sewer Manhole
 - ⊗ Water Gate Well & Valve
 - P.L.C. Manhole or Handhole
 - ⊙ Test Hole for Soil Profile
 - ★ P.L.C. Light Pole
 - ☁ Tree
 - x— Fence

SURVEY PLAN
Scale: 1"=40'

GENERAL NOTES:

The work covered by these plans includes construction of the proposed bridge and placing lightweight fill and slope protection to the limits shown. All other work is included in the Road Plans which are a 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 operations in such a manner as to insure that those utilities not requiring relocation will not be disturbed.

BURT ROAD traffic is to be maintained over the temporary road.

Datum refers to City of Detroit datum.

Topography shown here on 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.

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.
990(20)

REVISIONS			
NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

**BURT ROAD OVER JEFFRIES FREEWAY
 IN DETROIT**

GENERAL PLAN OF SITE

CITY OF DETROIT

APPROVED: _____
 DESIGN SUPERVISING ENGINEER

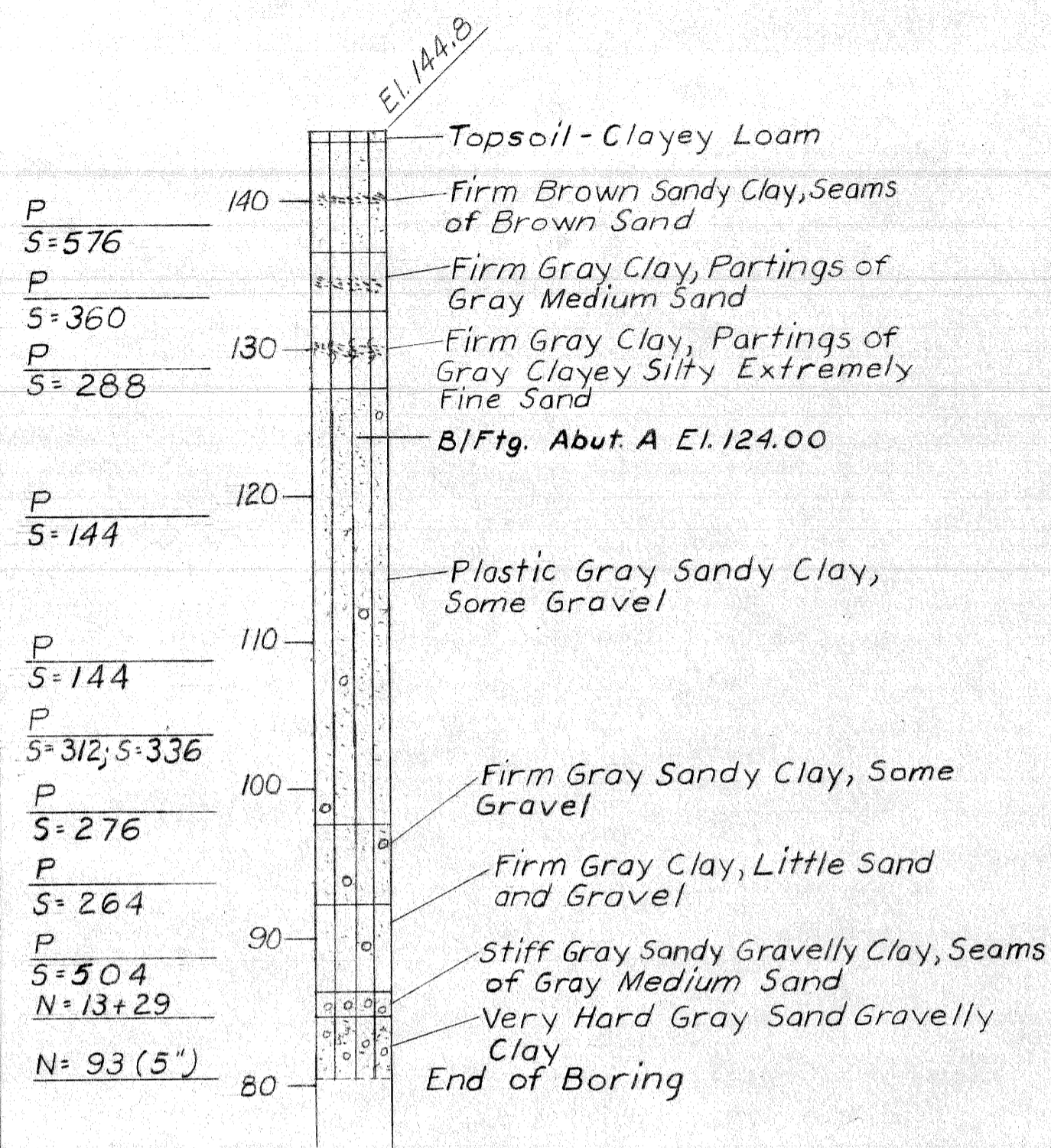
APPROVED: _____
 ENGINEER-DESIGN SECTION I

SQUAD BOSS	<i>Sturm</i>	8-70
DRAWN BY	<i>J. G.</i>	3-69
TRACED BY		
CHECKED BY	<i>JHK</i>	2-69
SHEET	2 OF 26	

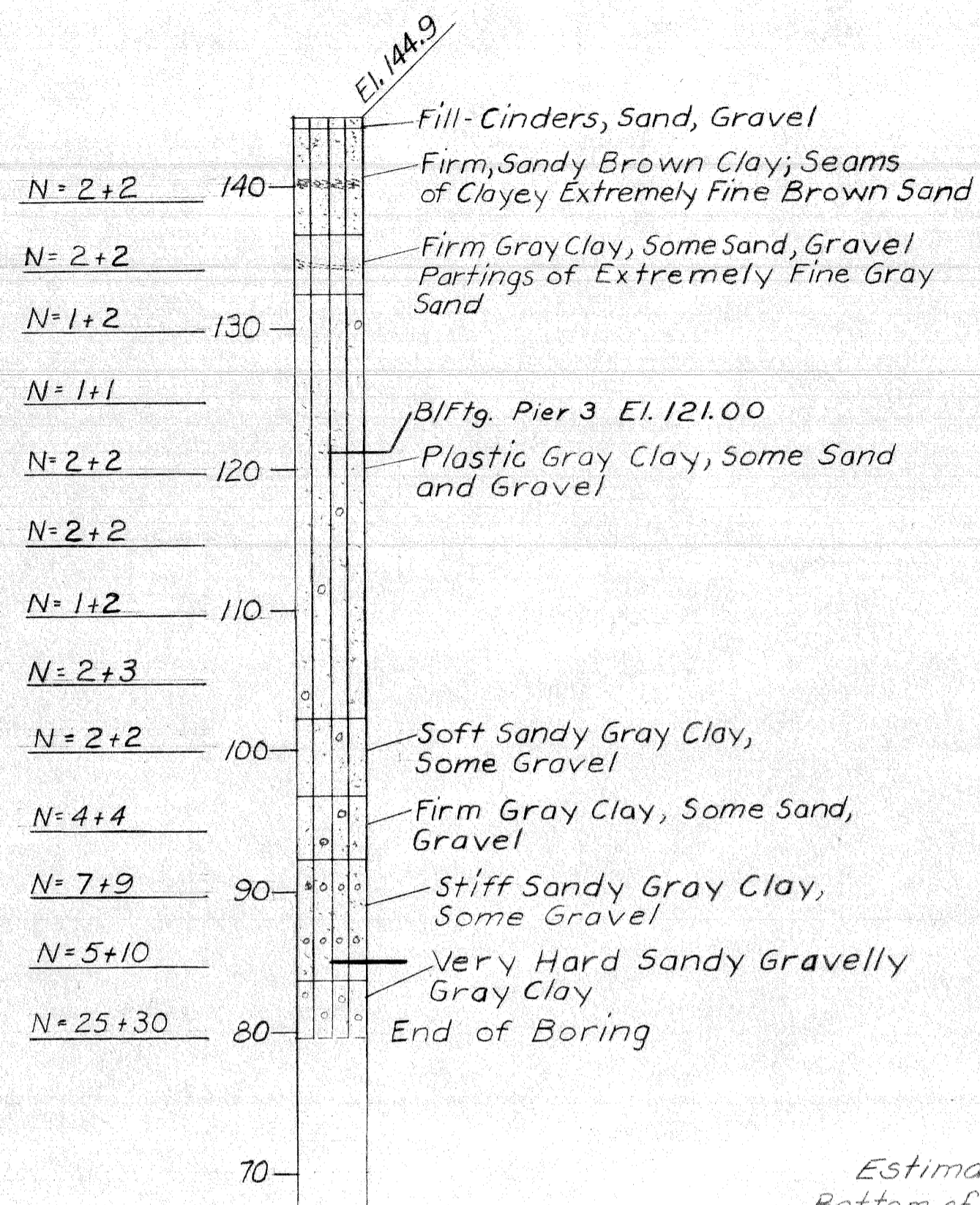
S22 of 82122 J

LOG OF SOIL BORINGS

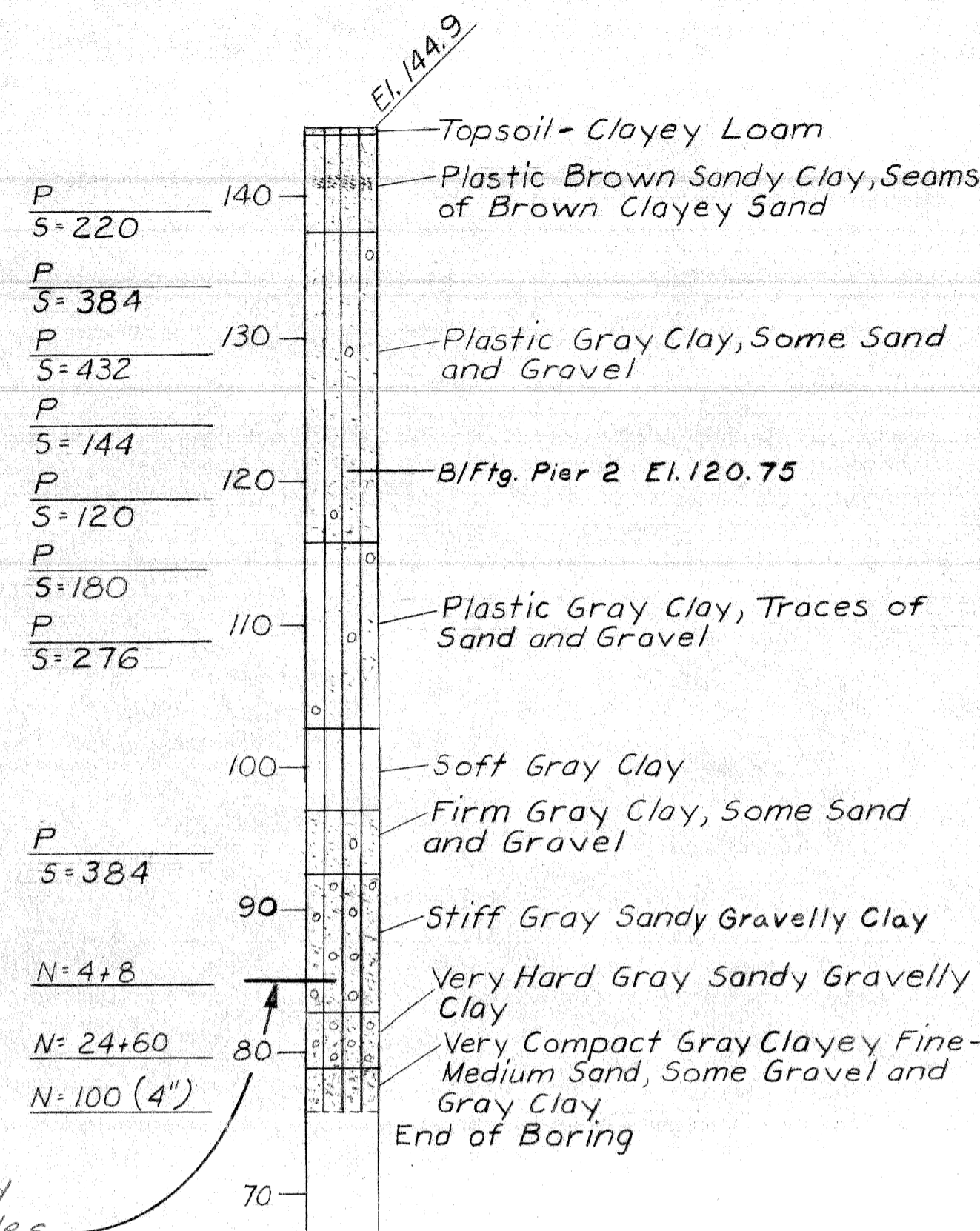
T.H. 31A



T.H. 31B

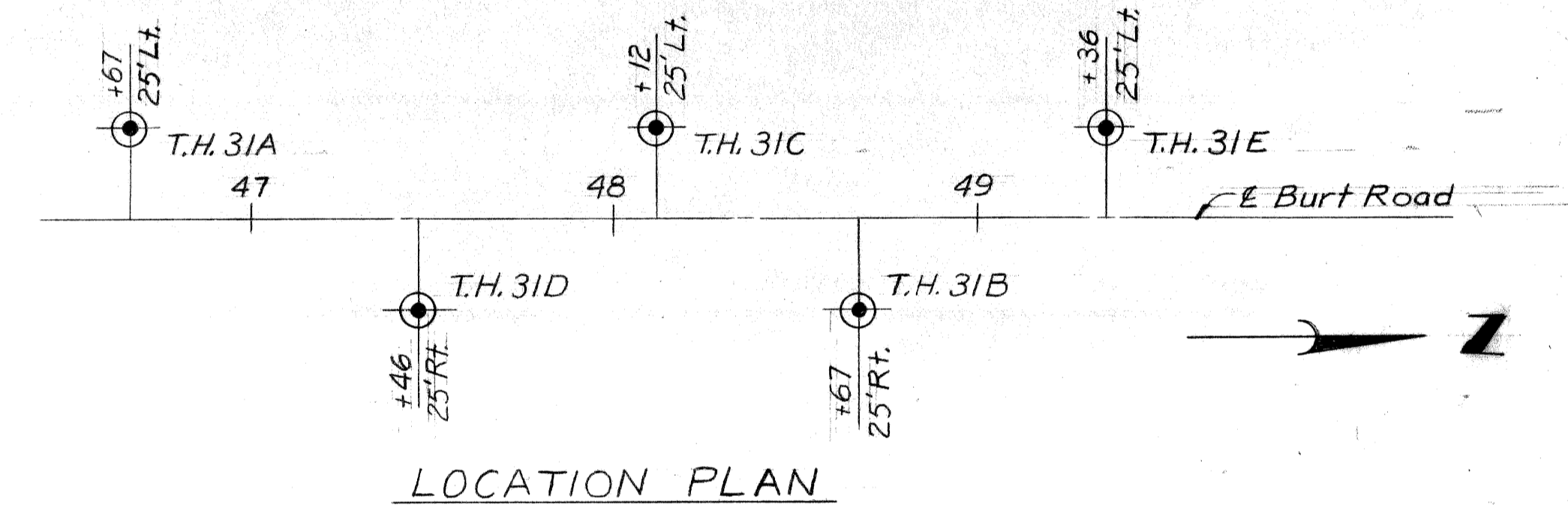
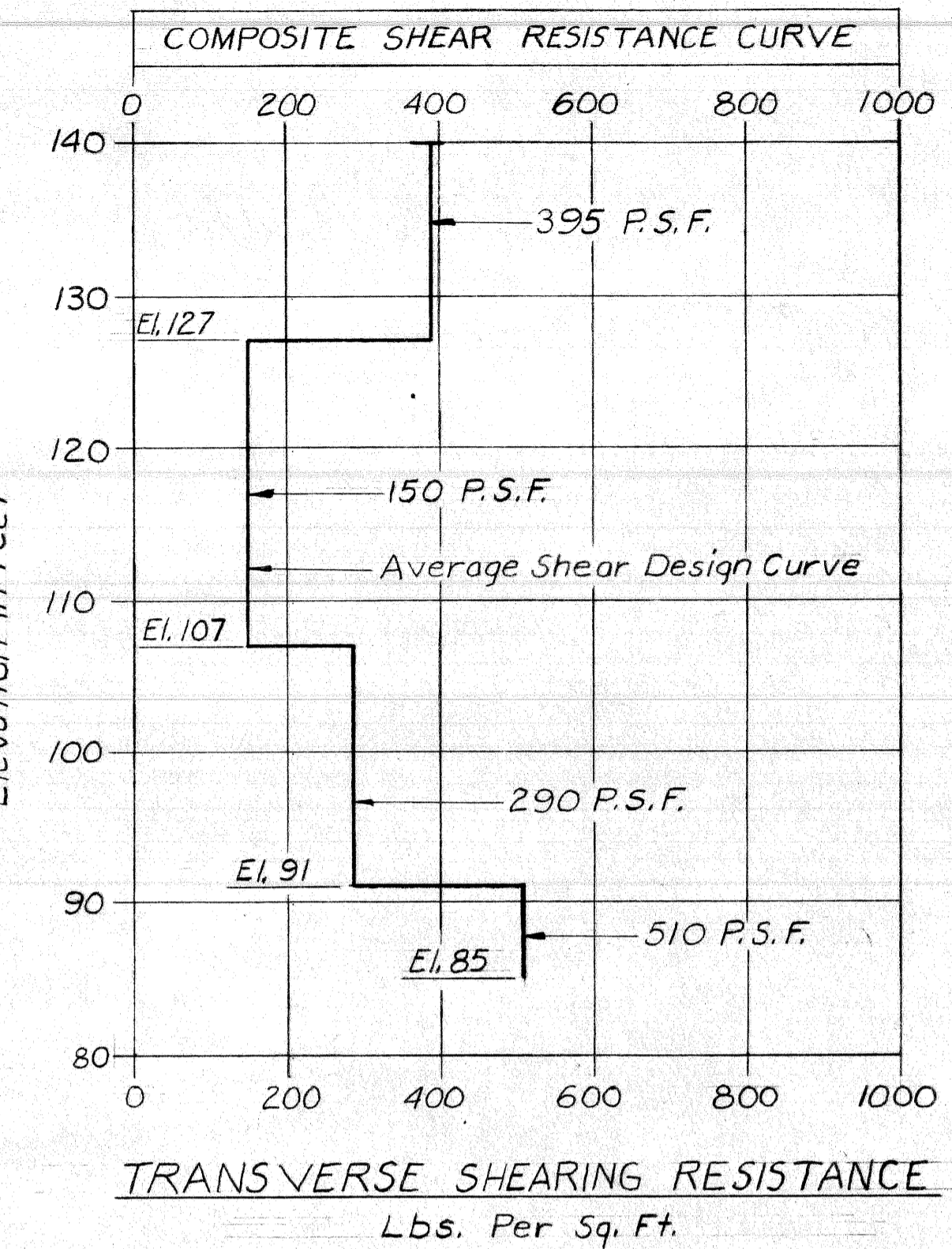


T.H. 31C

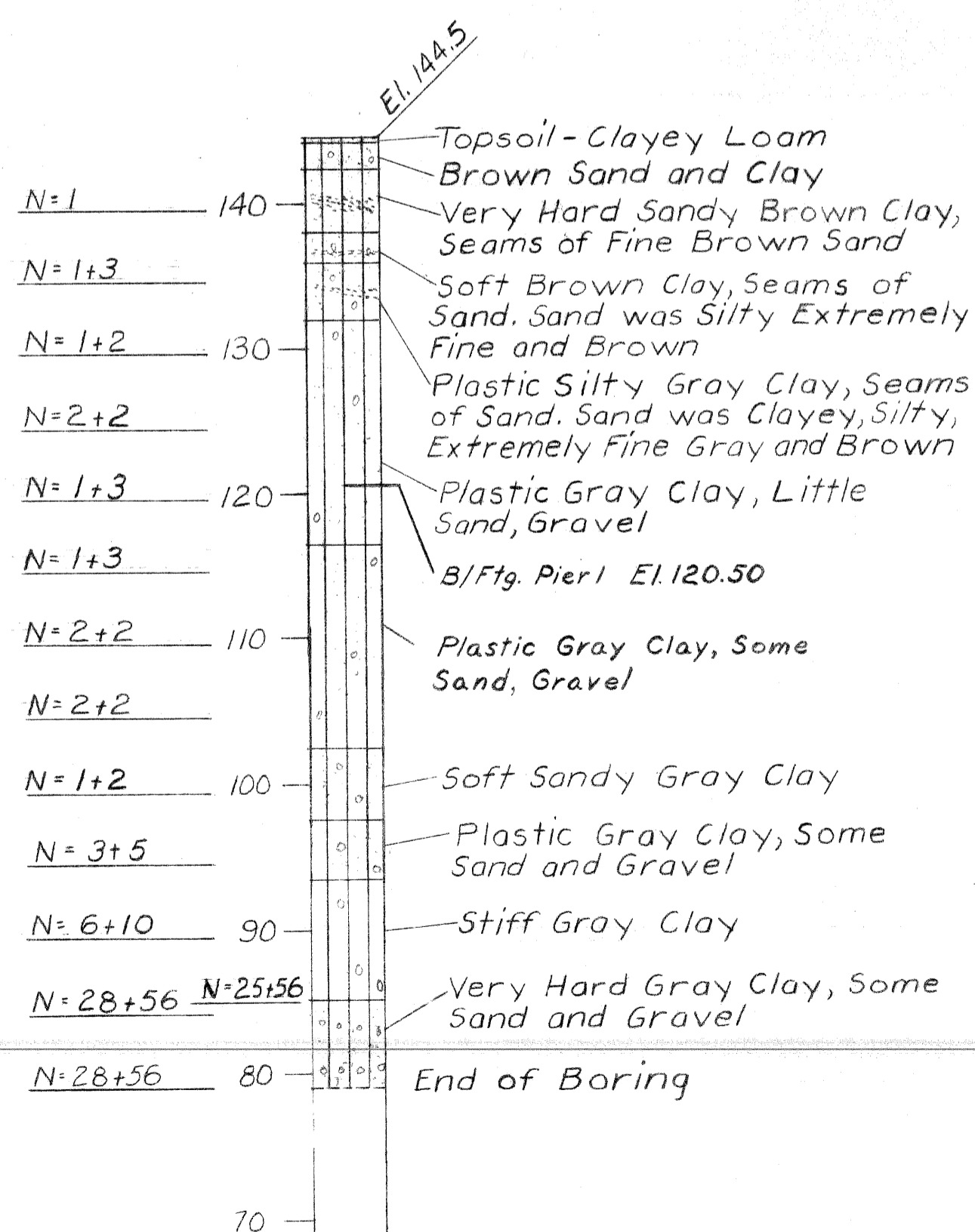


Estimated Bottom of Piles Elev. 85

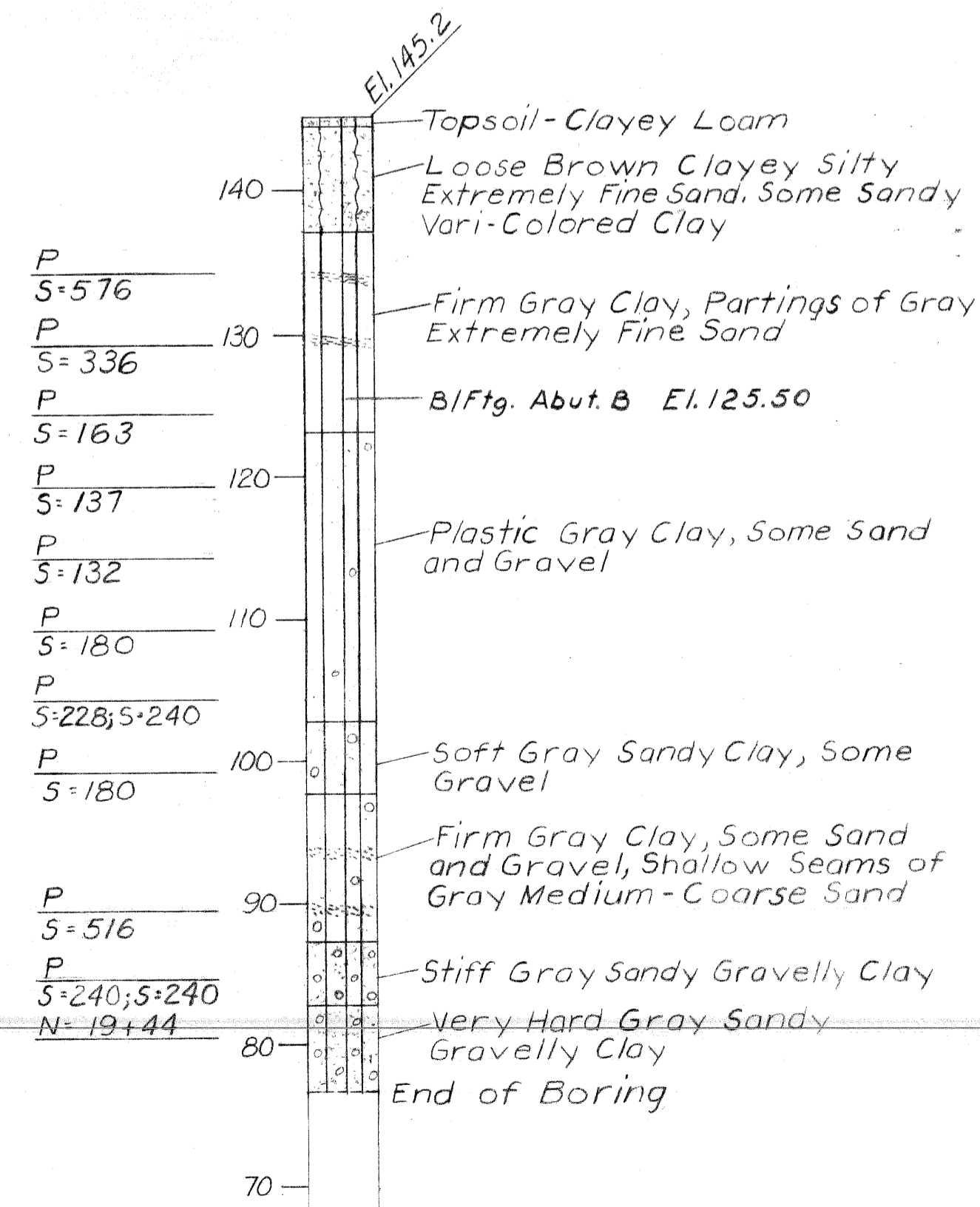
Note: Minimum required pile penetration is ten feet below bottom of footing.



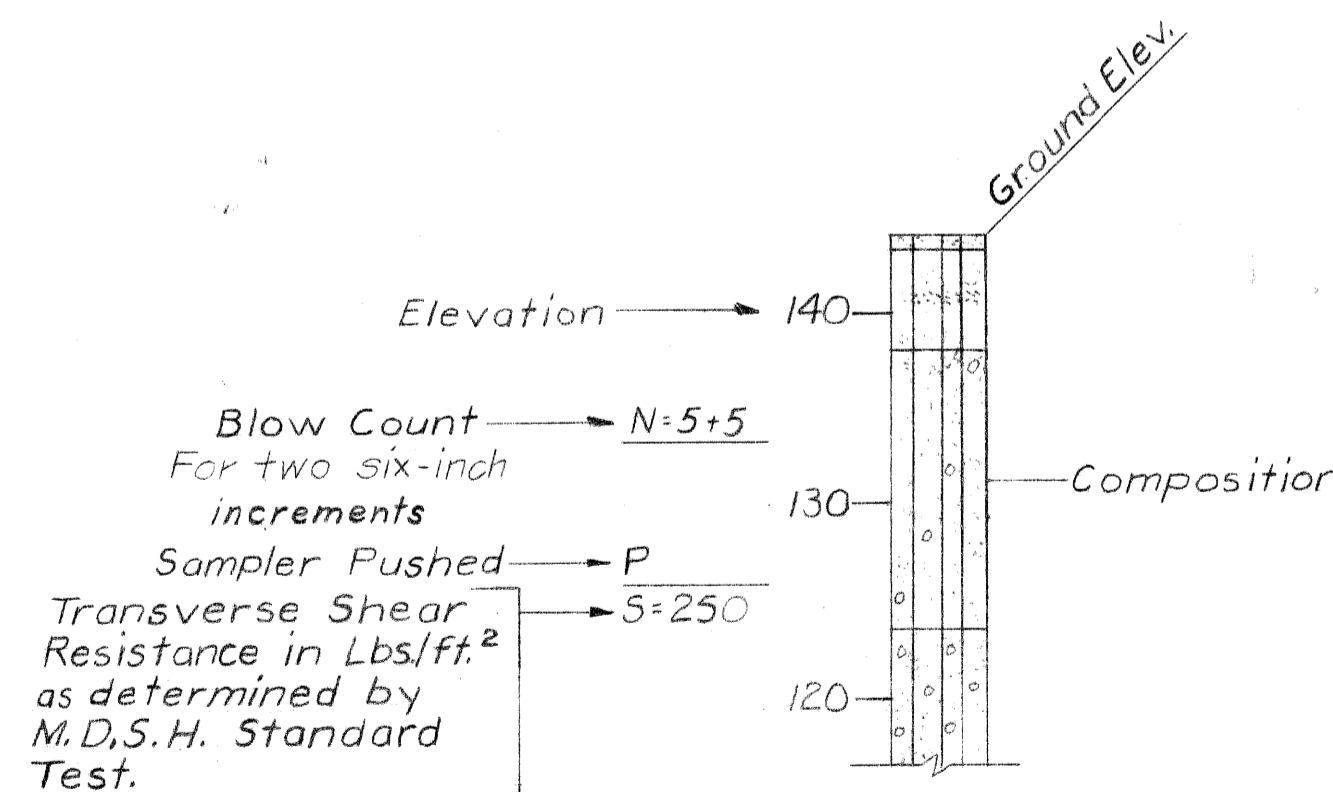
T.H. 31D



T.H. 31E



LEGEND



NOTE: N Indicates number of blows required to drive a sampler 6" (or as noted) using a 140* hammer falling 30'.

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(20)

NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
BURT ROAD OVER JEFFRIES FREEWAY
IN DETROIT

LOG OF SOIL BORINGS

APPROVED: [Signature] DESIGN SUPERVISING ENGINEER

APPROVED: [Signature] ENGINEER-DESIGN SECTION I

CITY OF DETROIT

SQUAD BOSS: [Signature] 8-70

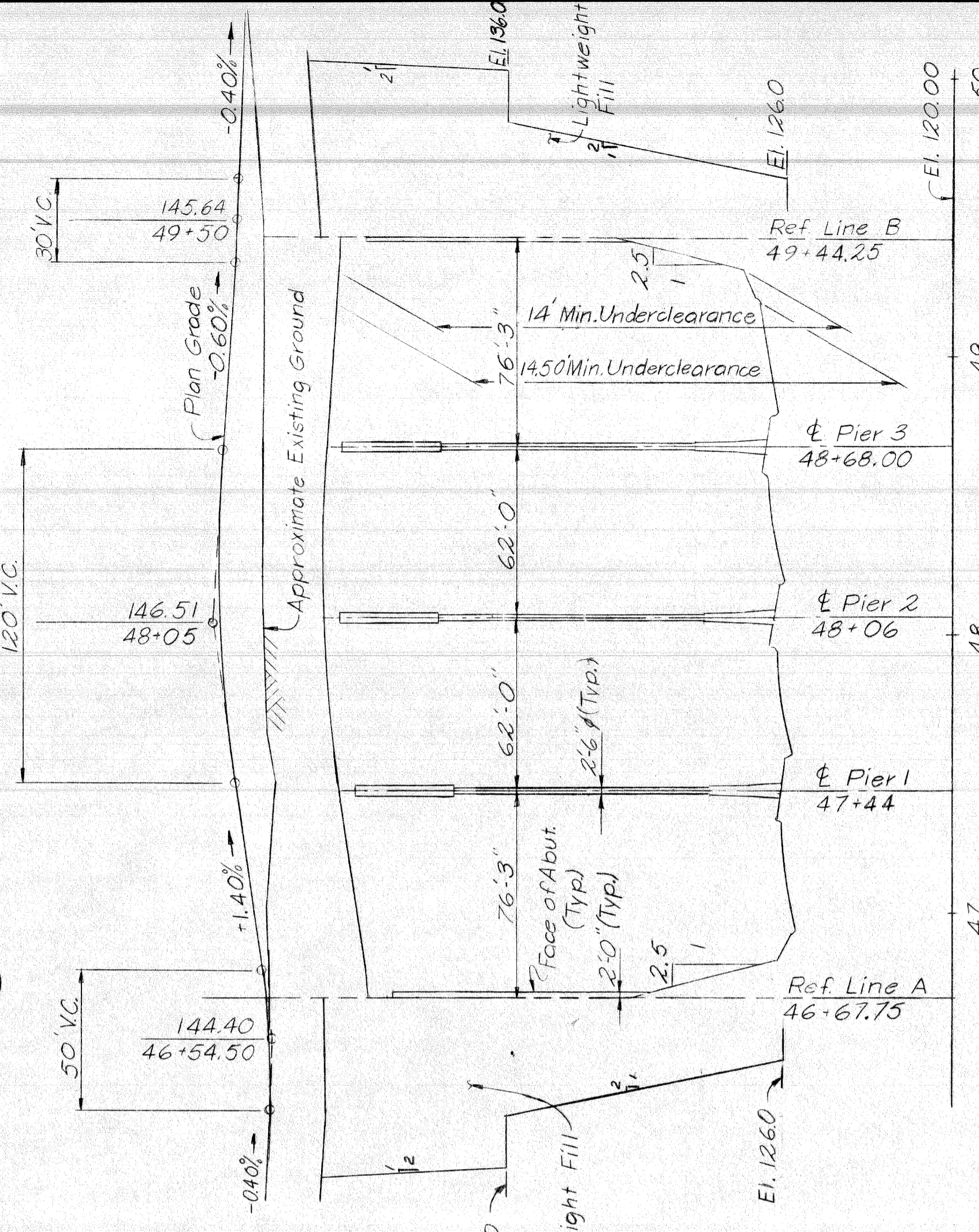
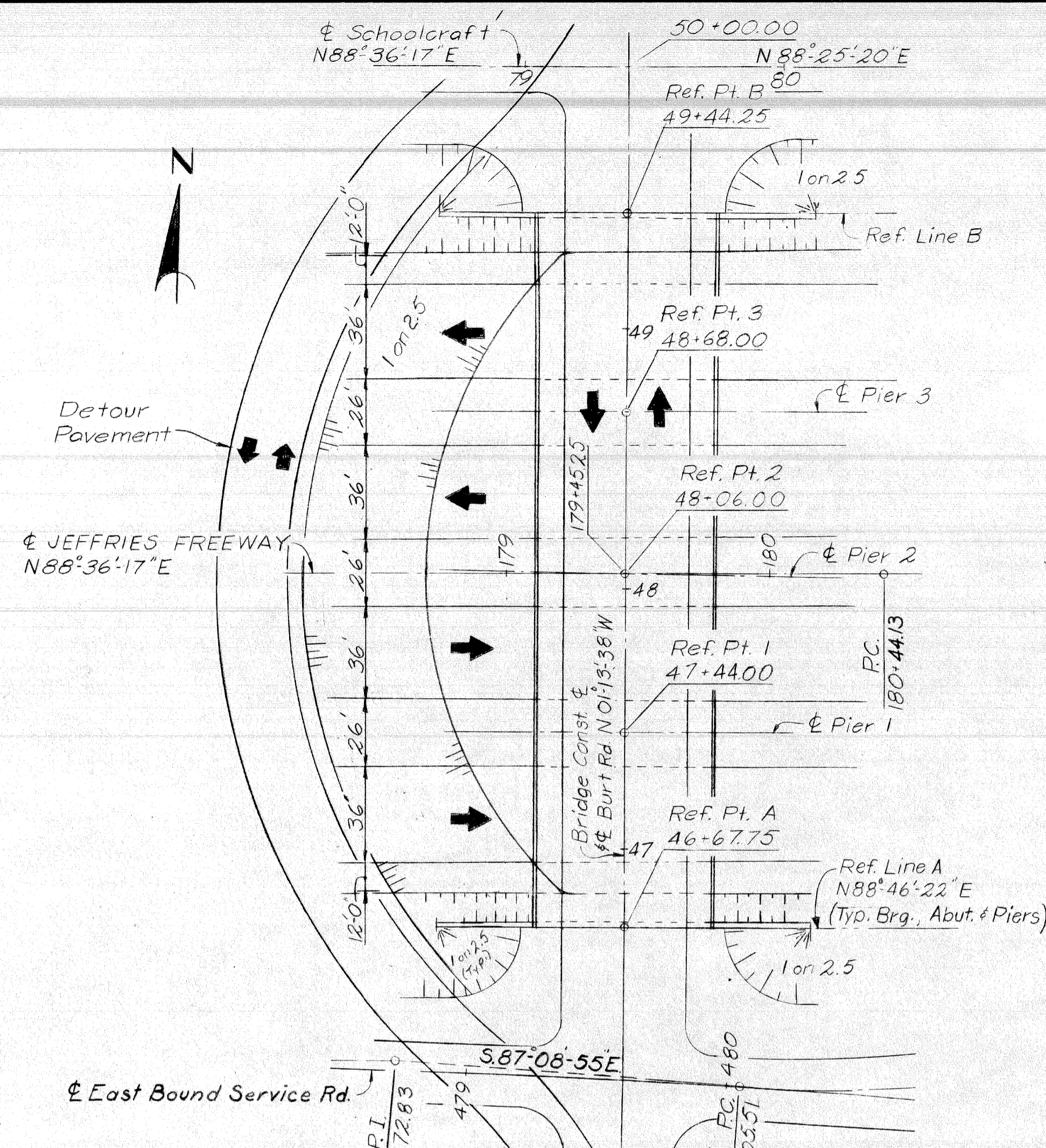
DRAWN BY: Jones 4-69

TRACED BY: [Signature]

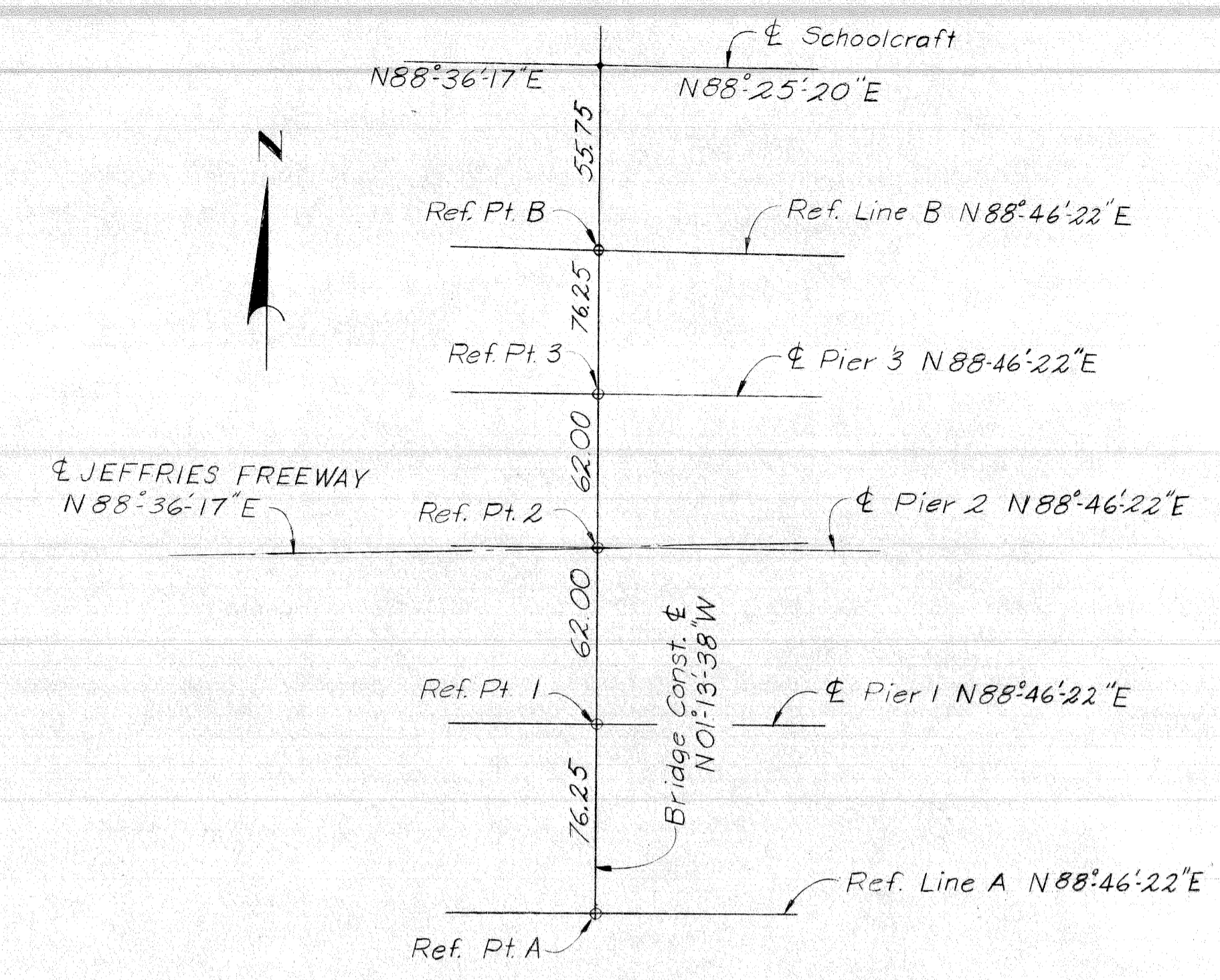
CHECKED BY: L.G. 4-69

SHEET 3 OF 25

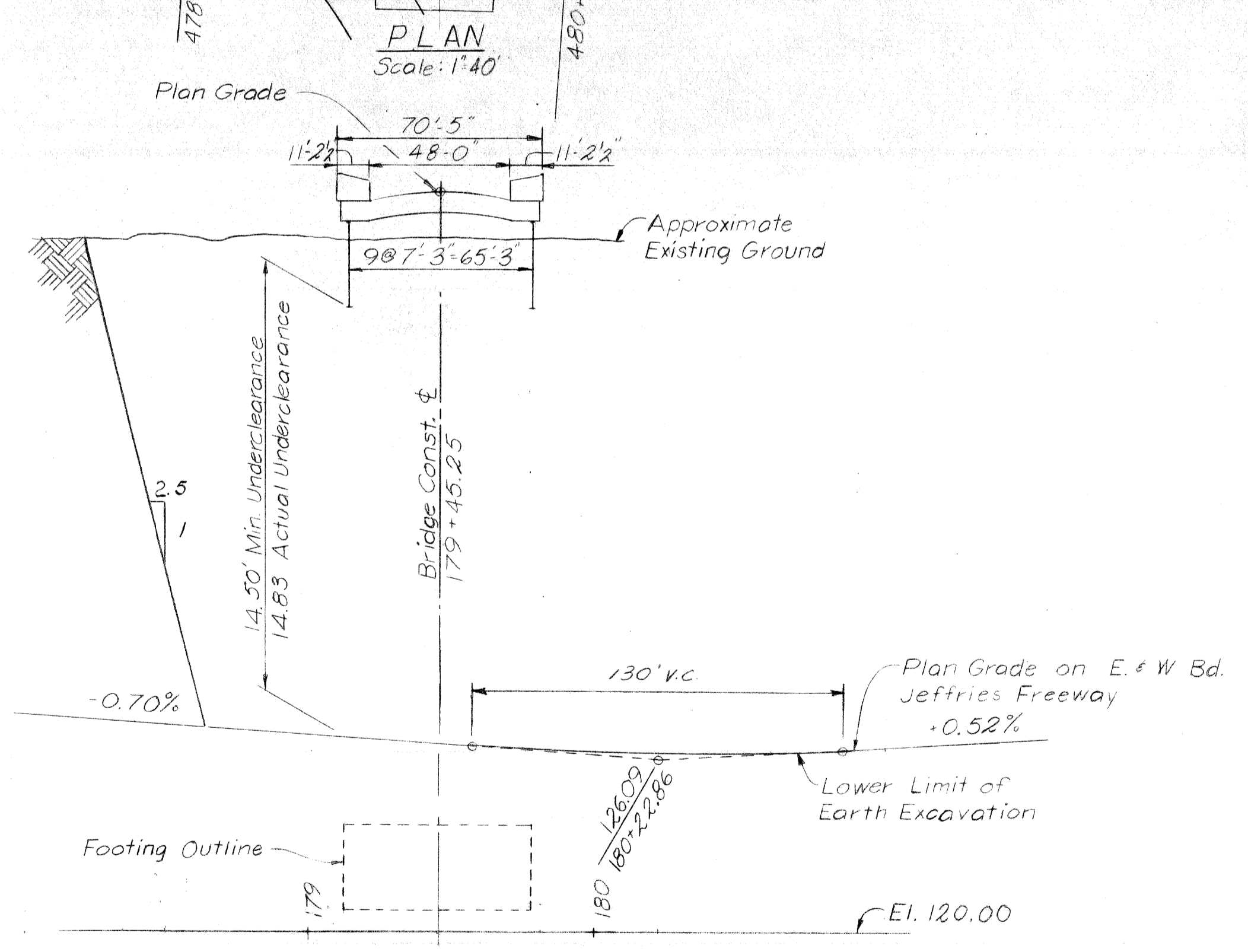
S22 of 82122J



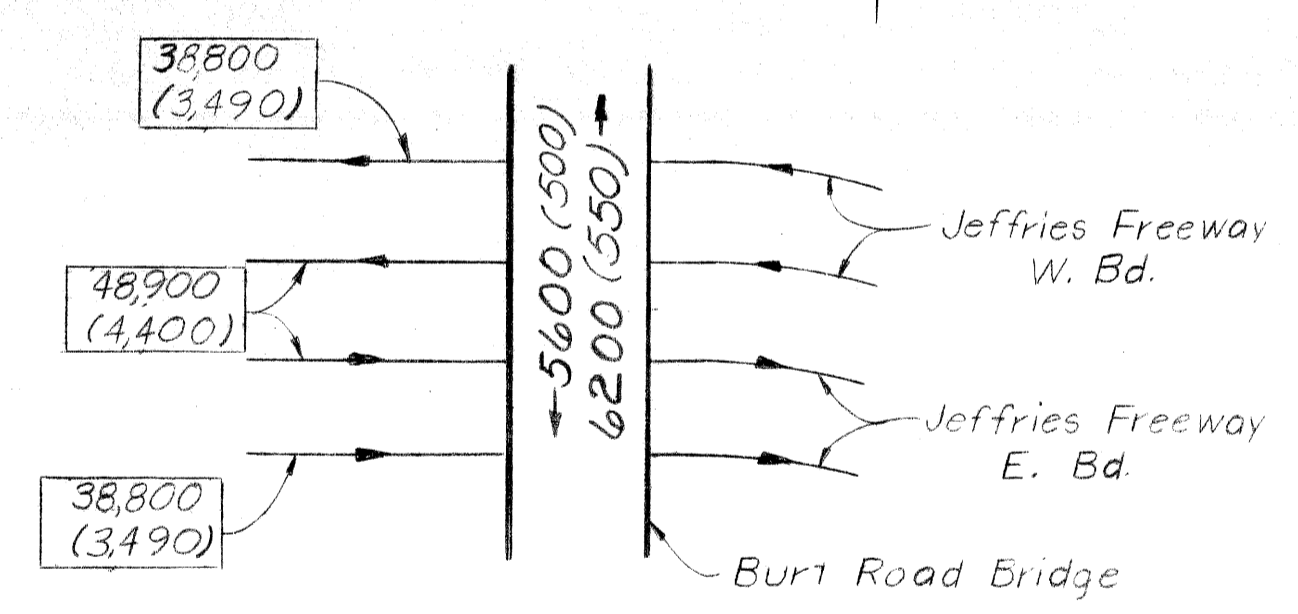
PROFILE ON BRIDGE CONST. Scale: Horiz: 1"=40' Vert: 1"=4'



ALIGNMENT DIAGRAM No Scale



PROFILE ON JEFFRIES FREEWAY Scale: Horiz: 1"=40' Vert: 1"=4'



TRAFFIC COUNT Estimated Traffic 1990 Except as noted
00,000 - A.D.T.
0,000 - D.H.V.

CONSTRUCTION BENCH MARKS
 C.B.M. 24 Tip of arrow on hydrant N.E. corner Schoolcraft and Trinity El. 148.09
 C.B.M. 24A Tip of arrow on hydrant E. / Trinity between Nos 13584 & 13576 El. 147.83
 Elevations are based on 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] STRUCTURAL ENGINEER

JOB No. 990 (20)

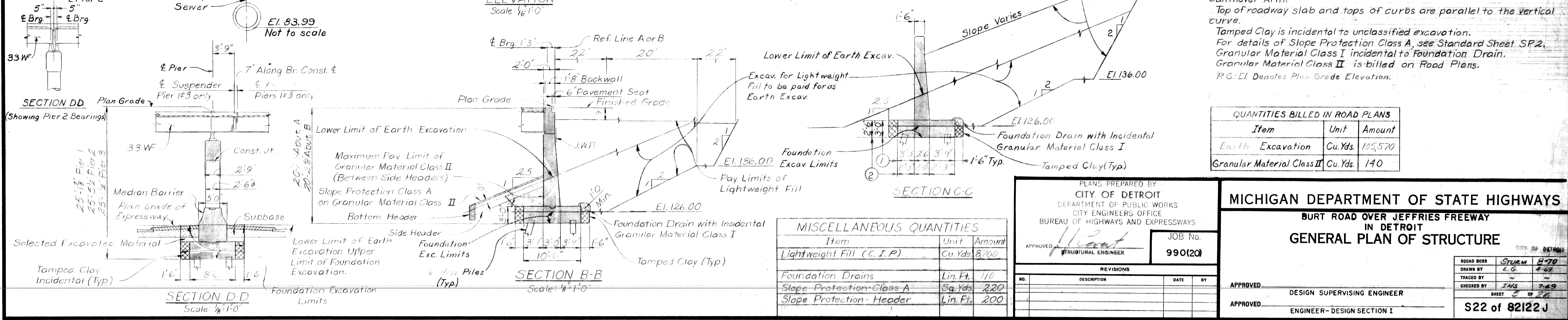
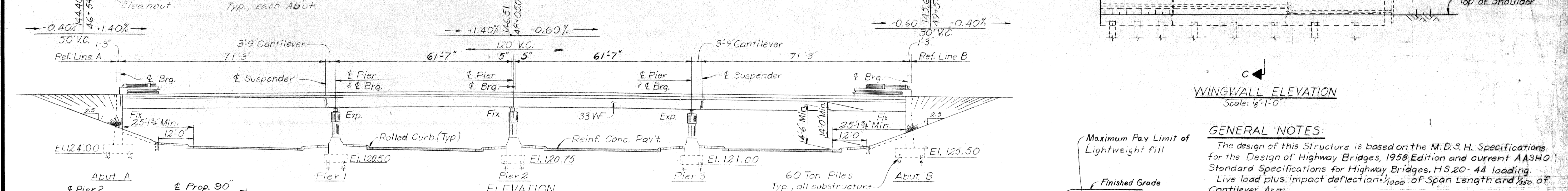
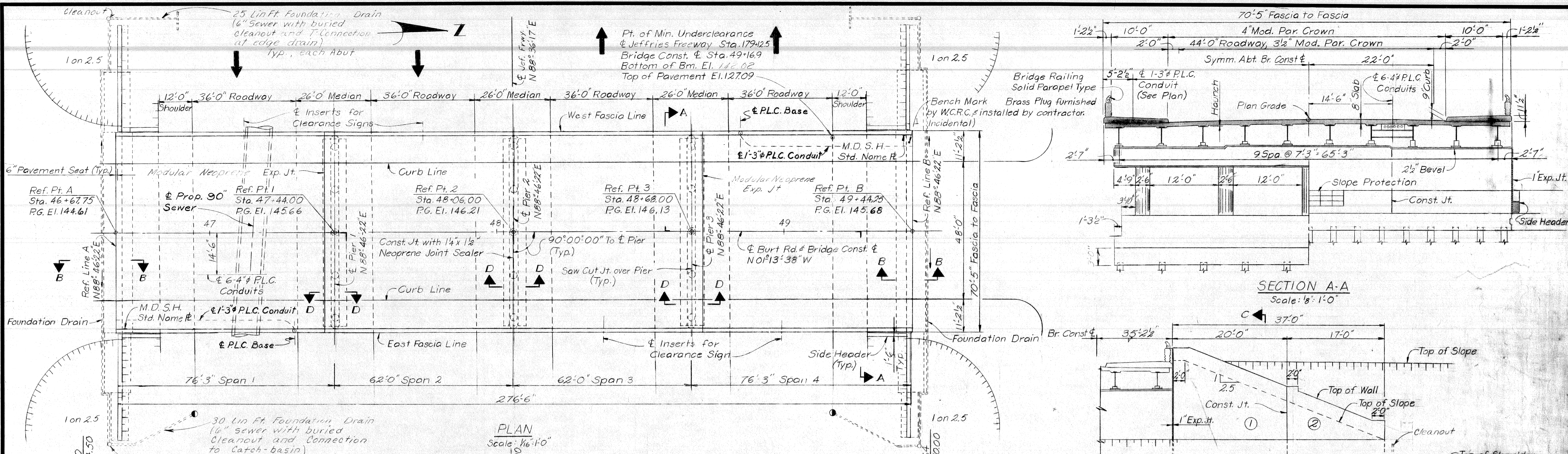
NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 BURT ROAD OVER JEFFRIES FREEWAY
 IN DETROIT
 GENERAL DRAWING

APPROVED: [Signature] DESIGN SUPERVISING ENGINEER
 APPROVED: [Signature] ENGINEER-DESIGN SECTION I

SQUAD BOSS	DATE
STURM	8-70
L.G.	3-69
CHECKED BY	7-69

SHEET 1 OF 25
 S22 of 82122 J



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 AASHTO Standard Specifications for Highway Bridges, HS-20-44 loading. Live load plus impact deflection 1/1000 of Span Length and 1/500 of Cantilever Arm.
 Top of roadway slab and tops of curbs are parallel to the vertical curve.
 Tamped Clay is incidental to unclassified excavation. For details of Slope Protection Class A, see Standard Sheet SP-2. Granular Material Class I incidental to Foundation Drain. Granular Material Class II is billed on Road Plans.
 P.G. El. Denotes Plan Grade Elevation.

QUANTITIES BILLED IN ROAD PLANS

Item	Unit	Amount
Earth Excavation	Cu. Yds.	105,570
Granular Material Class II	Cu. Yds.	140

MISCELLANEOUS QUANTITIES

Item	Unit	Amount
Lightweight Fill (C.I.P.)	Cu. Yds.	8,200
Foundation Drains	Lin. Ft.	110
Slope Protection Class A	Sq. Yds.	220
Slope Protection - Header	Lin. Ft.	200

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

APPROVED: *[Signature]* JOB No. 990(20)
 STRUCTURAL ENGINEER

REVISIONS

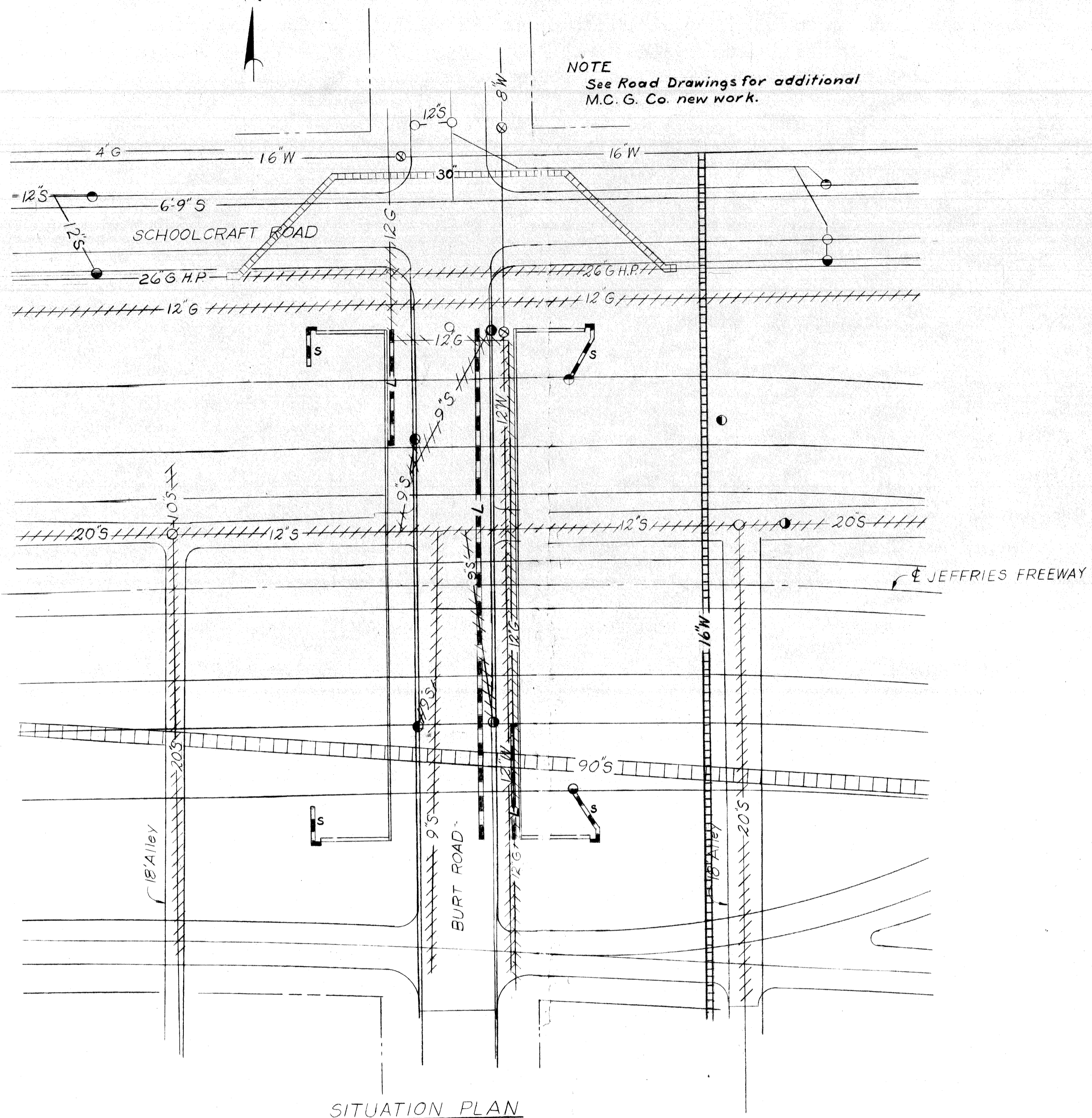
NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
BURT ROAD OVER JEFFRIES FREEWAY
IN DETROIT
GENERAL PLAN OF STRUCTURE

APPROVED: _____ DESIGN SUPERVISING ENGINEER
 APPROVED: _____ ENGINEER - DESIGN SECTION I

APPROVED: *[Signature]* 1-70
 DRAWN BY: E.G.
 CHECKED BY: J.N.S. 7-69
 SHEET 3 OF 25

S22 of 82122 J



NOTE
See Road Drawings for additional
M.C. G. Co. new work.

SITUATION PLAN
Scale: 1" = 40'

UTILITY	LEGEND			
	EXISTING	DELETE OR ABANDONED	NEW WORK BY OTHERS	NEW WORK BY CONTRACTOR
DETROIT WATER DEPARTMENT	— W —	/// W ///	==== W =====	----- W -----
FREEWAY & CITY OF DETROIT SEWERS	— S —	/// S ///	==== S =====	----- S -----
MICHIGAN CONSOLIDATED GAS CO.	— G —	/// G ///	==== G =====	----- G -----
PUBLIC LIGHTING COMMISSION				----- L -----

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

APPROVED: *[Signature]*
STRUCTURAL ENGINEER

JOB No. 990(20)

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

BURT ROAD OVER JEFFRIES FREEWAY
IN DETROIT

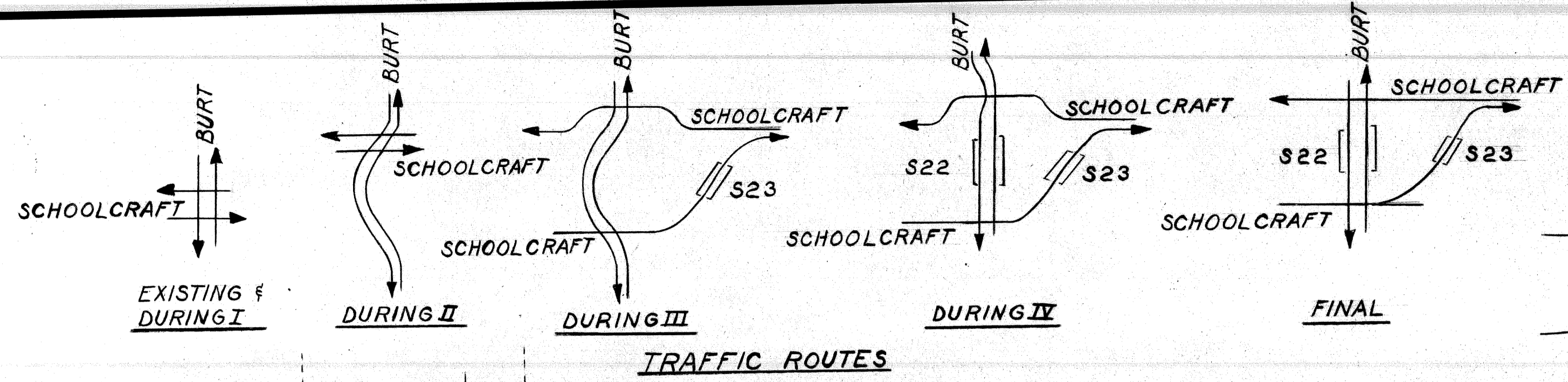
EXISTING UTILITIES AND PROPOSED ALTERATIONS

NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT

SQUAD BOSS: *[Signature]* 870
DRAWN BY: L.G. 12-69
CHECKED BY: 345 12-69
SHEET 6 OF 26

S22 of 82122 J



NOTES

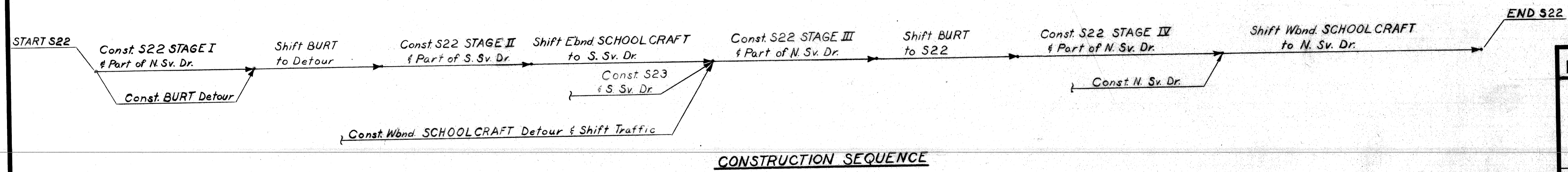
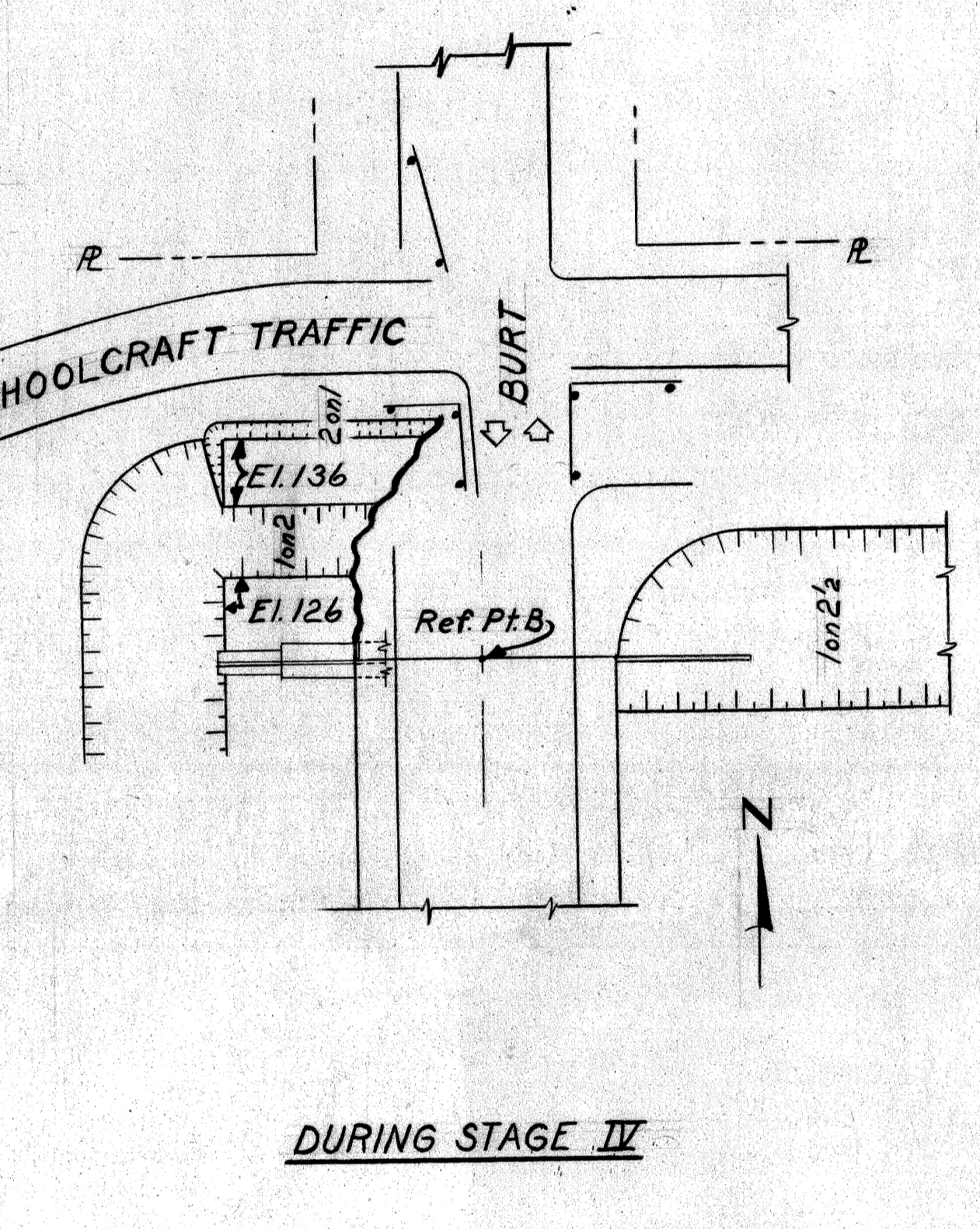
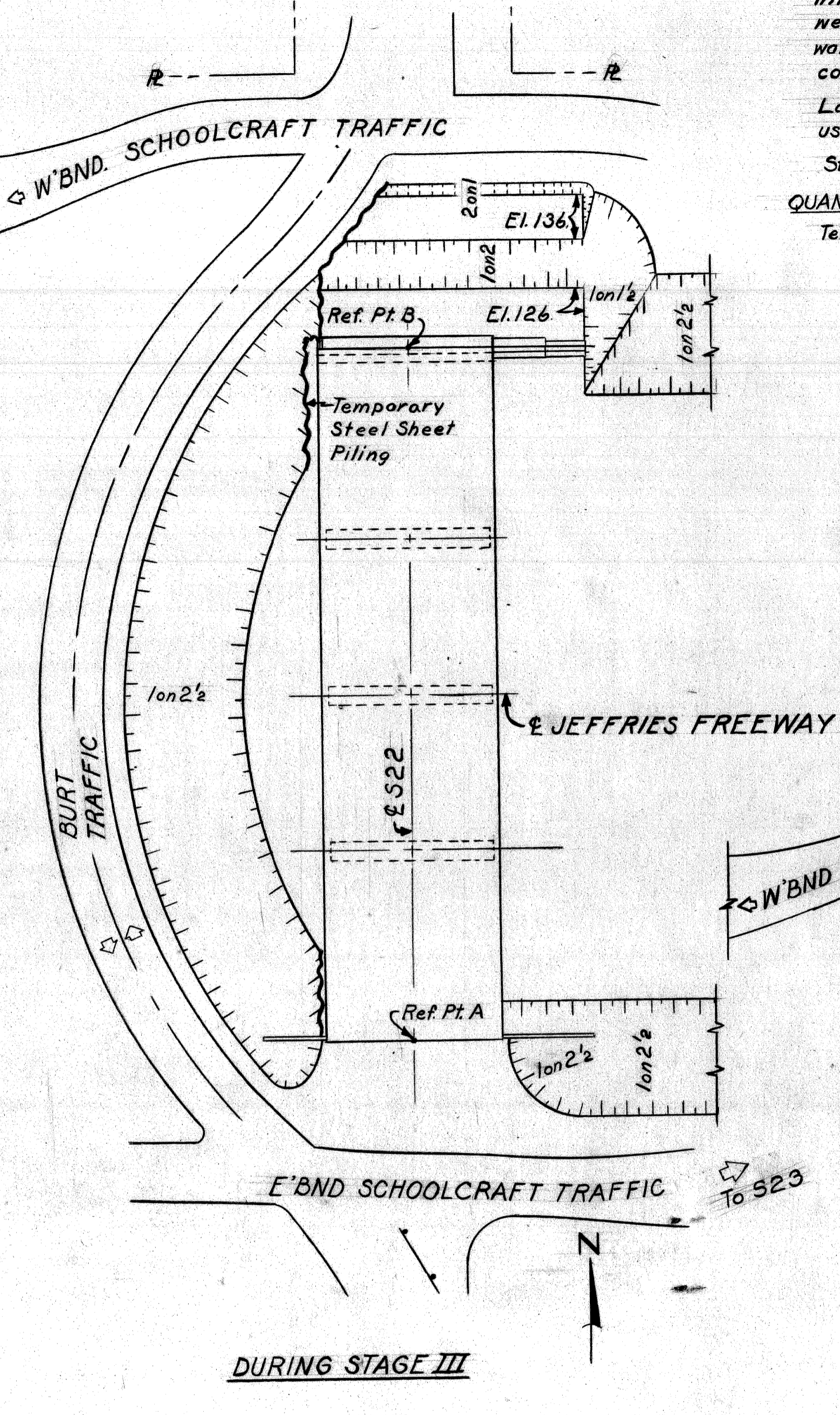
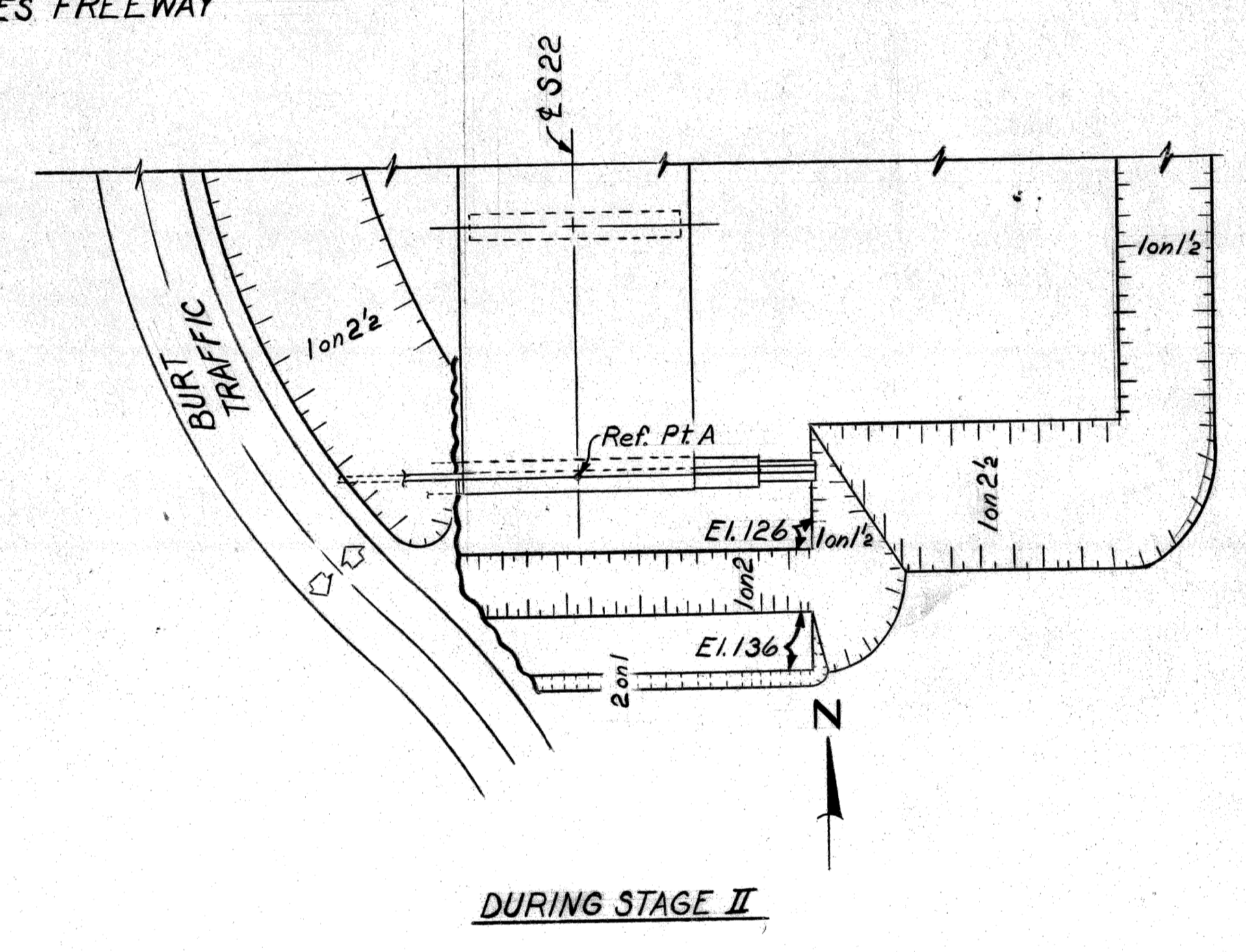
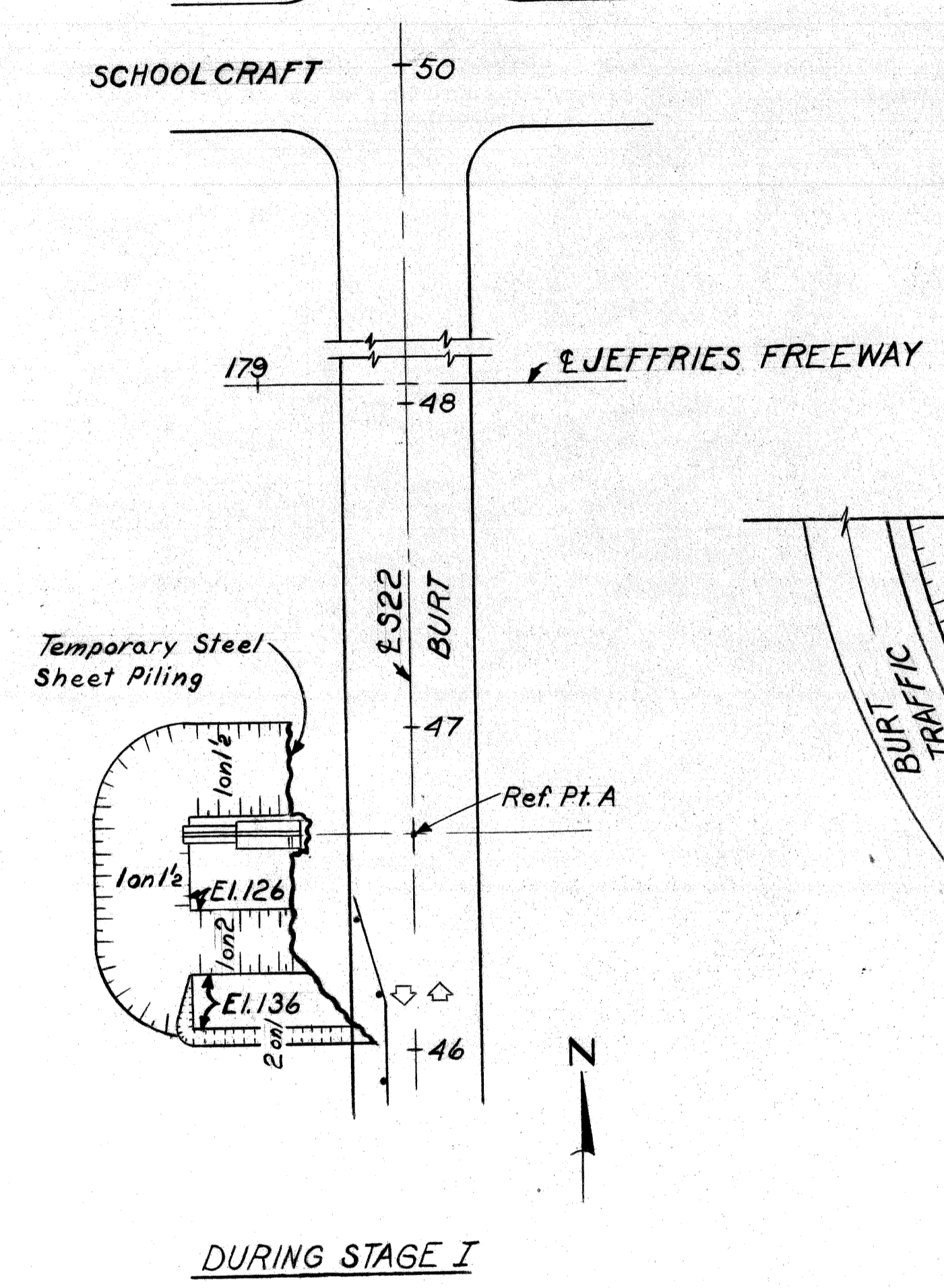
Temporary steel sheet piling shall be of the continuous interlock type, either new or used, in good condition, weighing not less than 22 pounds per square foot of wall, and shall be furnished with suitable connecting and corner pieces.

Ladle analysis and mill reports are not required for steel used in sheet piling.

Steel Sheet Piling shall conform to ASTM A-328.

QUANTITY

Temporary Steel Sheet Piling 2925 Sq. Ft.



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

APPROVED: *[Signature]*
STRUCTURAL ENGINEER

JOB No. **990(20)**

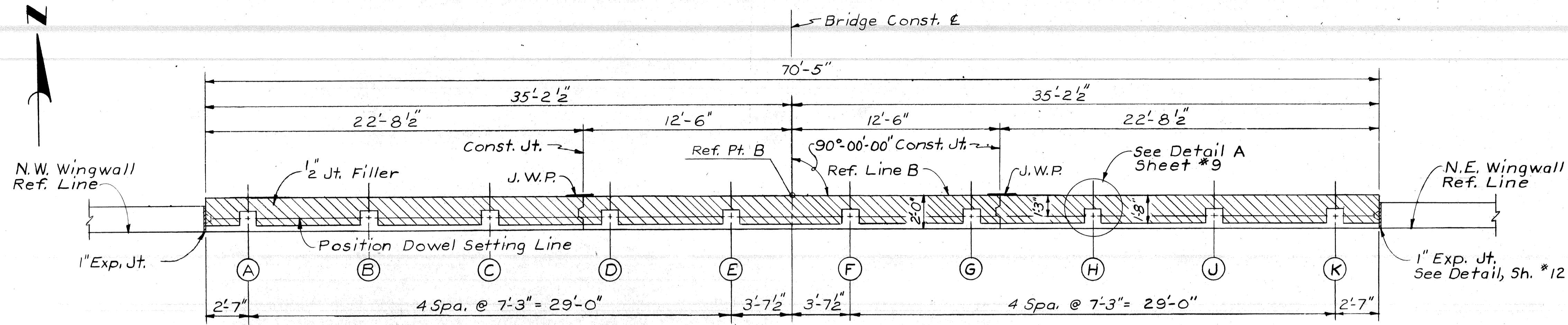
MICHIGAN DEPARTMENT OF STATE HIGHWAYS

BURT ROAD OVER JEFFRIES FREEWAY IN DETROIT

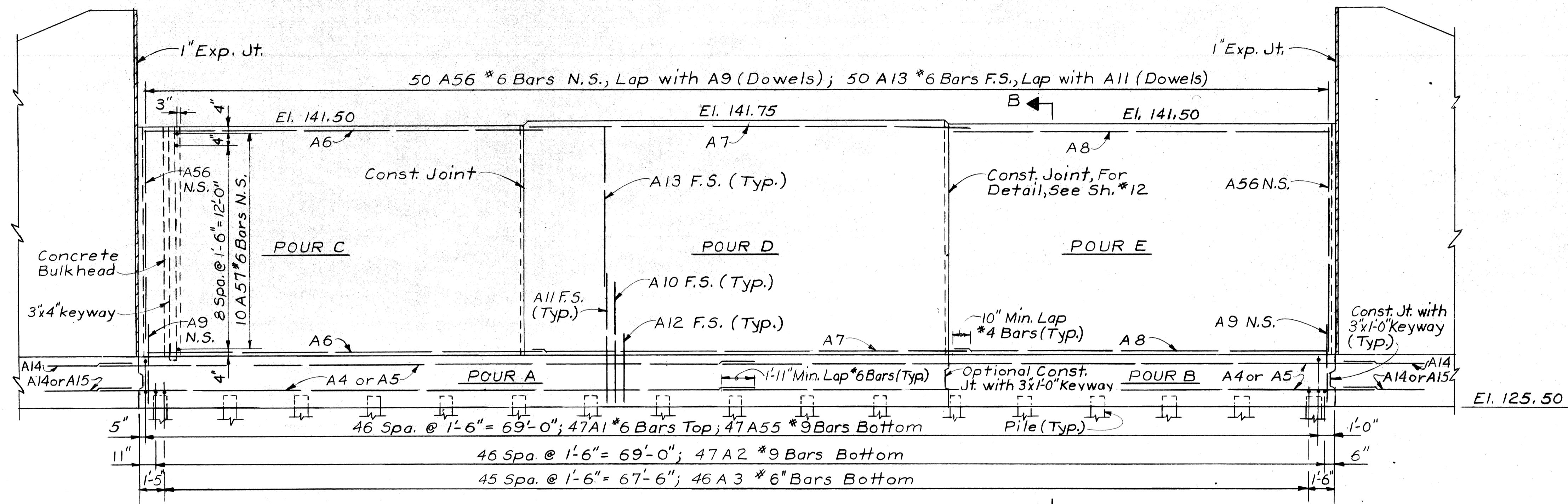
STAGE CONSTRUCTION DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

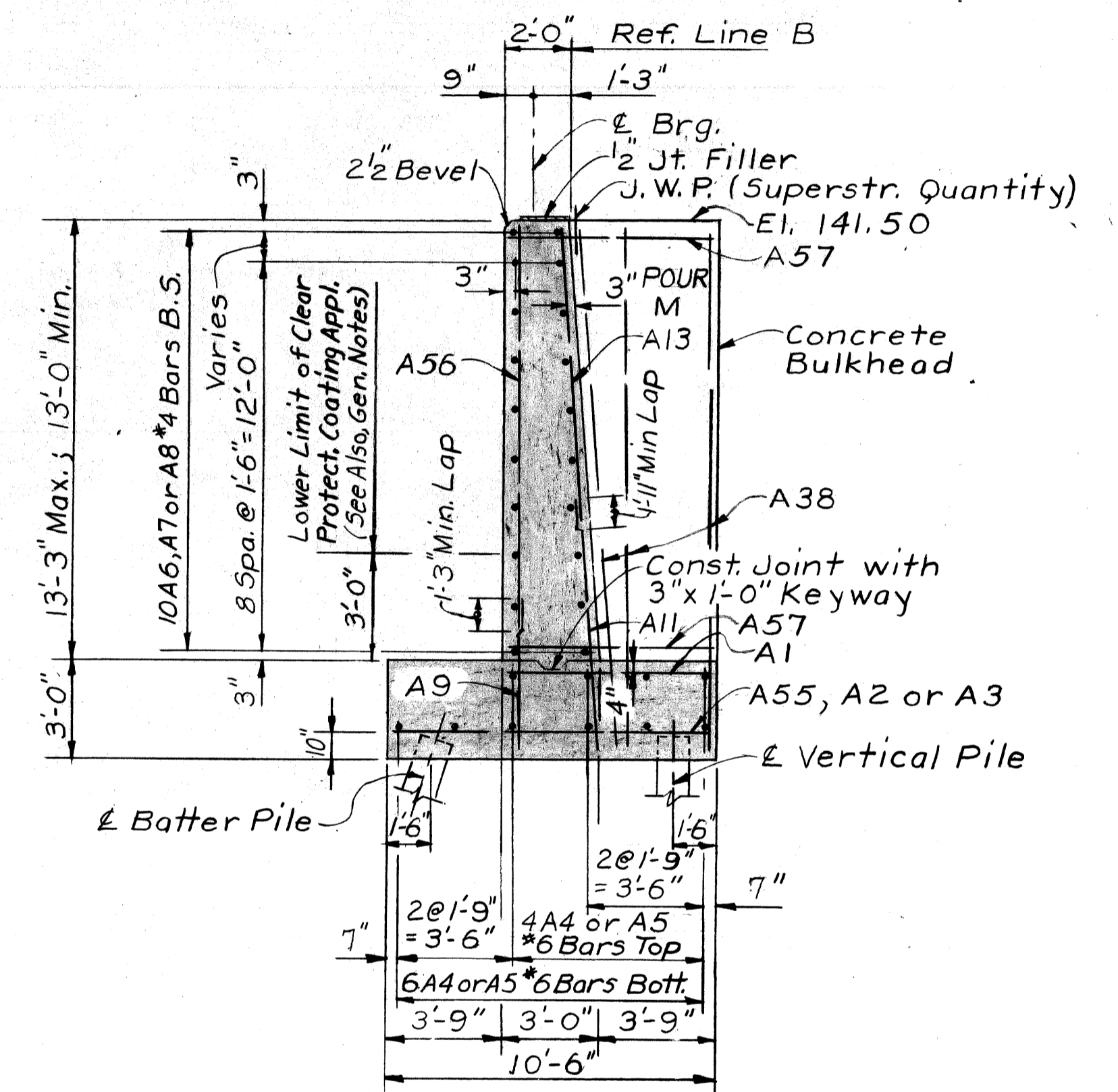
CITY OF DETROIT
SQUAD BOSS: STURM 8-70
DRAWN BY: T.B. 1-70
TRACED BY: WARREN 1-70
CHECKED BY: JHS 1-70
SHEET 7 OF 25
S22 of 82122J



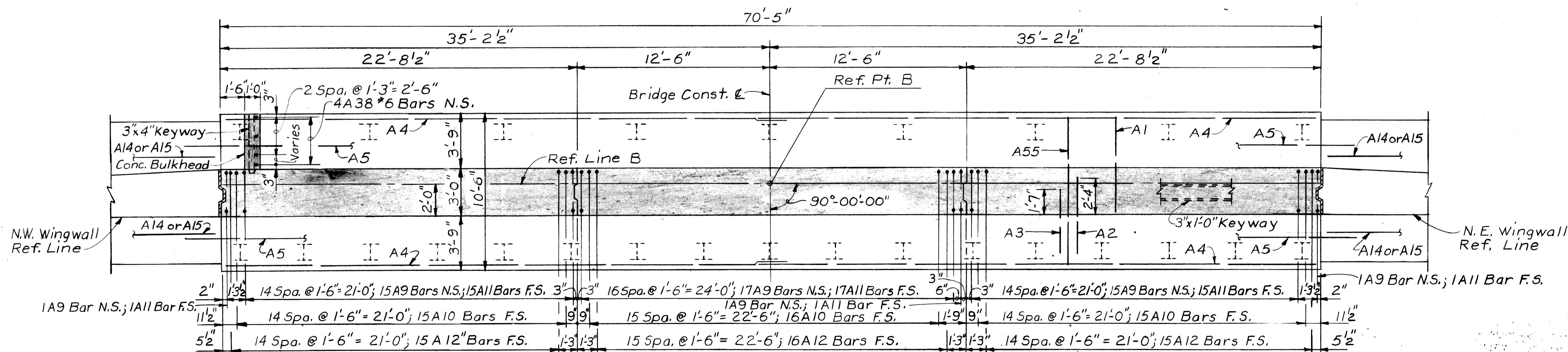
PLAN - ABUT. B



ELEVATION - ABUT. B



SECTION B-B



FOUNDATION PLAN - ABUT. B

NOTE:
All Vertical Stem
Bars are #6

Work Sheets 9 thru 12 Together

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS
APPROVED: *[Signature]*
STRUCTURAL ENGINEER
JOB No. 990(20)

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
BURT ROAD OVER JEFFRIES FREEWAY
IN DETROIT

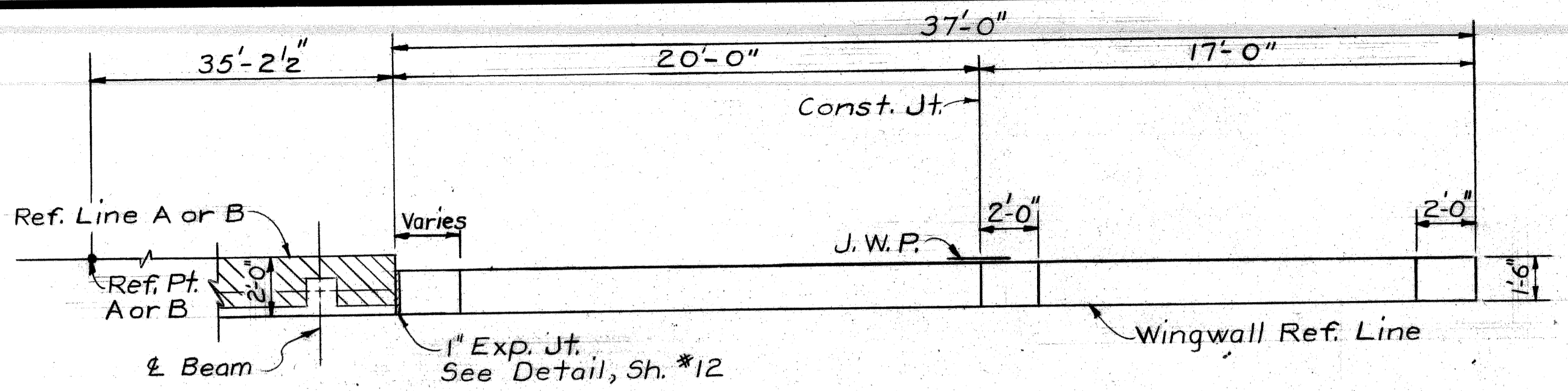
ABUTMENT B DETAILS

NO.	DESCRIPTION	DATE	BY

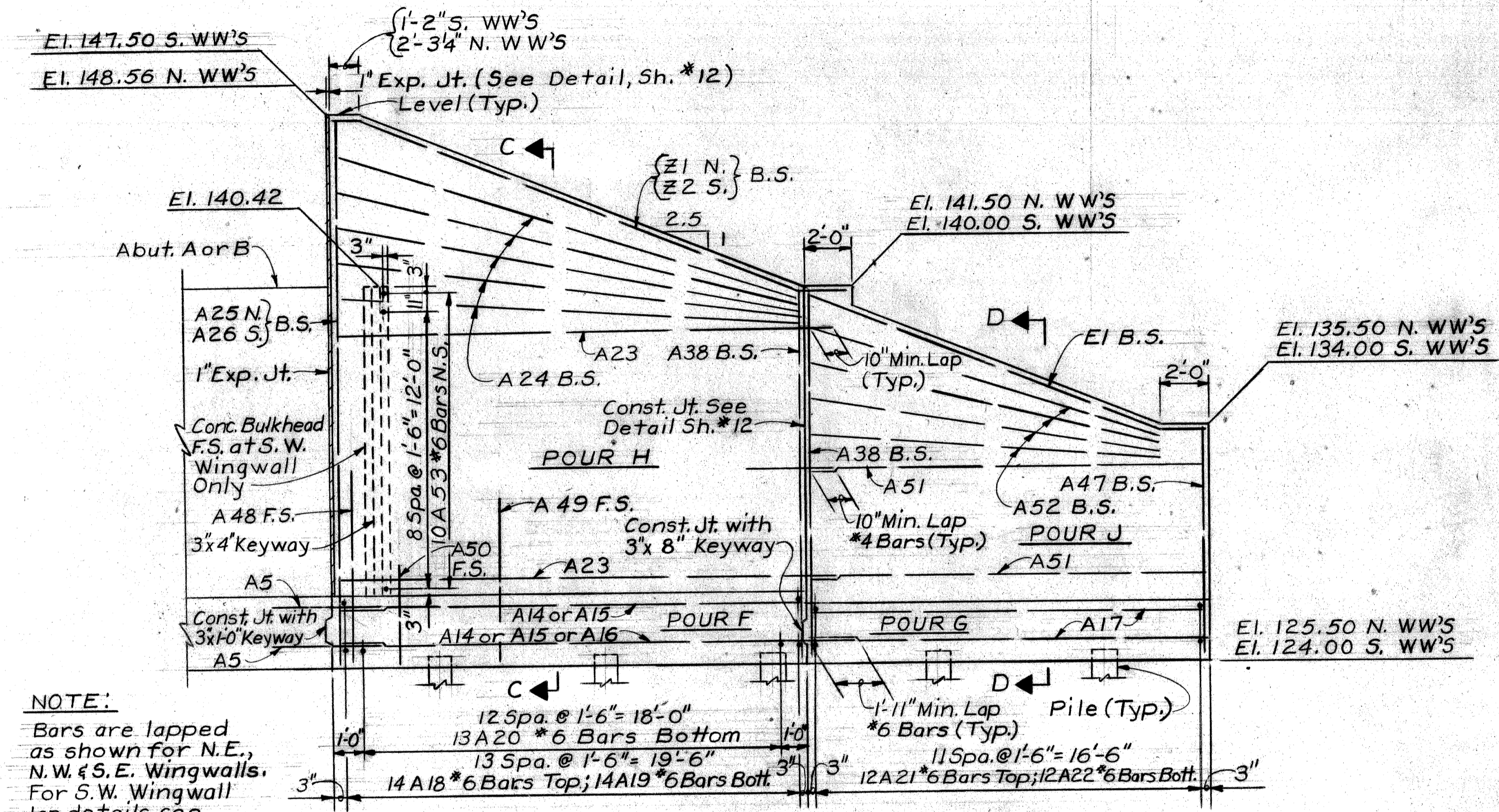
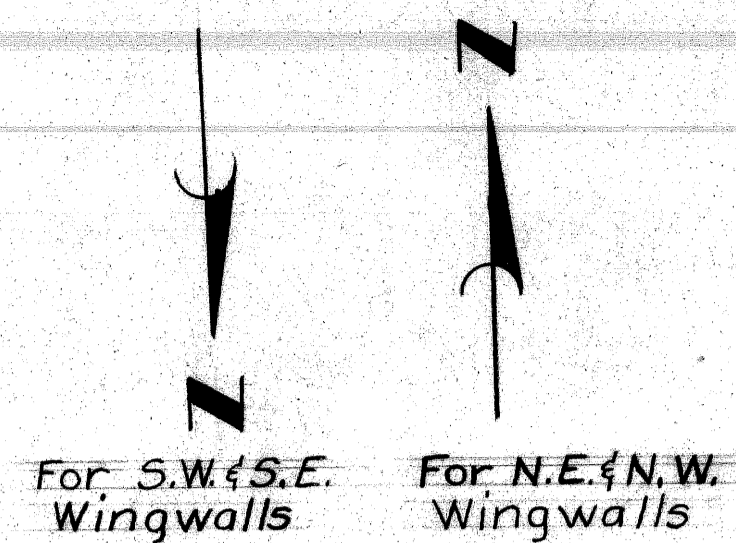
REVISIONS

SQUAD BOSS	DATE
STURM	8-70
COMLY	2-70
JONES	2-70
KARBER	3-70

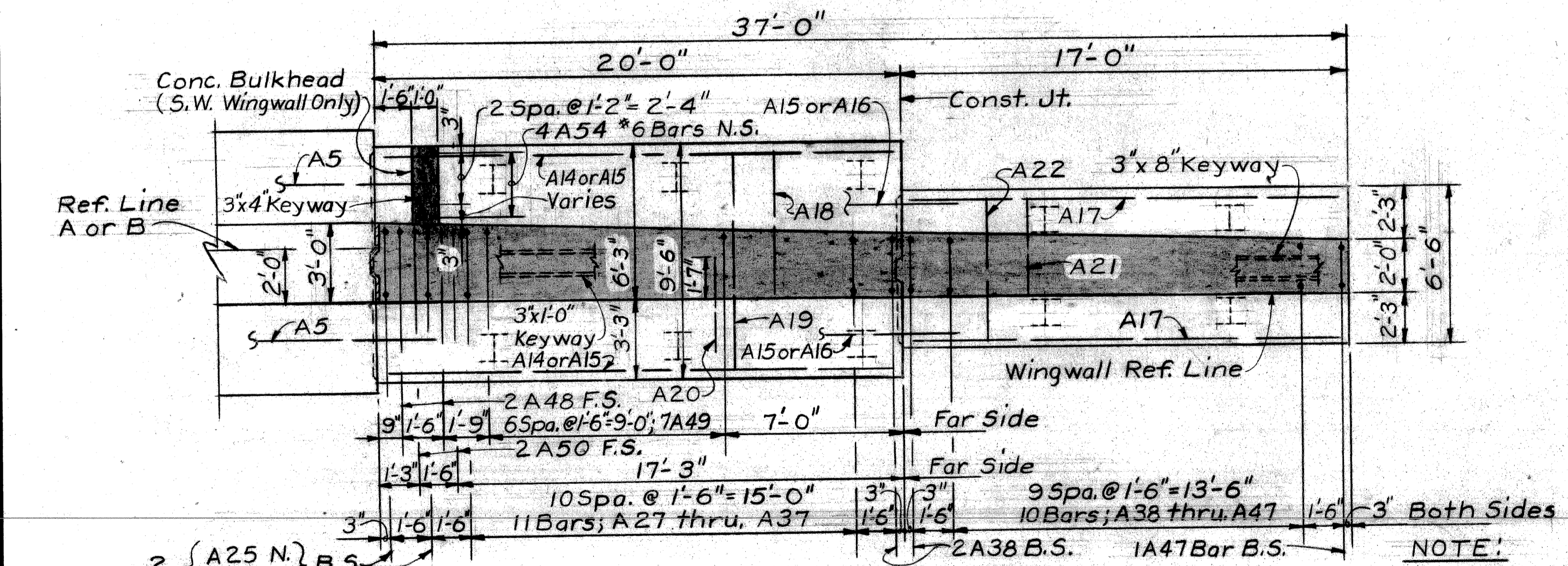
SHEET 10 OF 26
S22 of 82122J



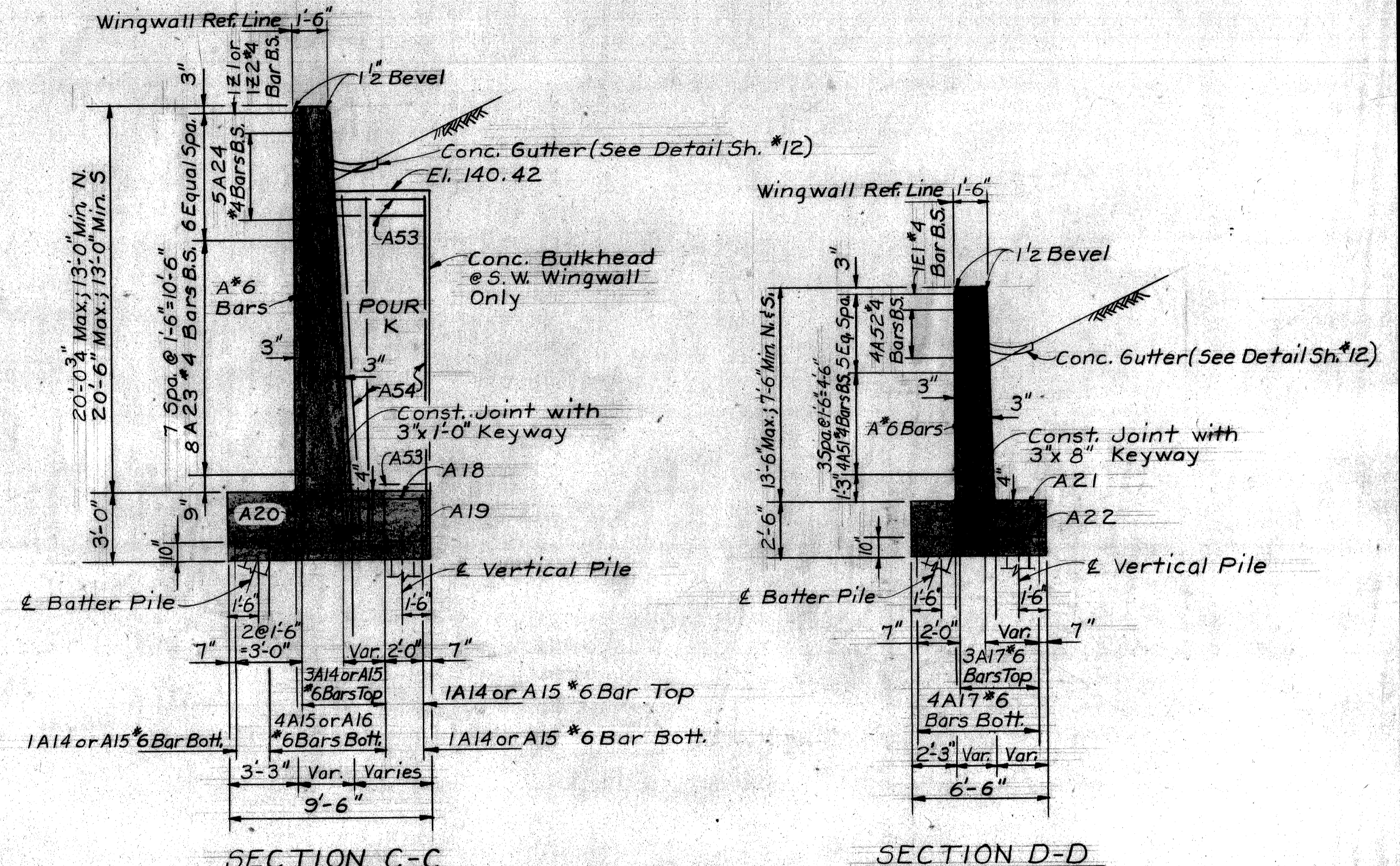
PLAN-TOP OF N.E. & S.W. WINGWALLS
(N.W. & S.E. Wingwalls Opposite Hand)



ELEVATION-N.E. & S.W. WINGWALLS
(N.W. & S.E. Wingwalls Opposite Hand)



FOUNDATION PLAN-N.E. & S.W. WINGWALLS
(N.W. & S.E. Wingwalls Opposite Hand)



SECTION C-C

SECTION D-D

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

APPROVED *[Signature]*
STRUCTURAL ENGINEER

JOB No.
990(20)

Work Sheets 9 thru 12 Together

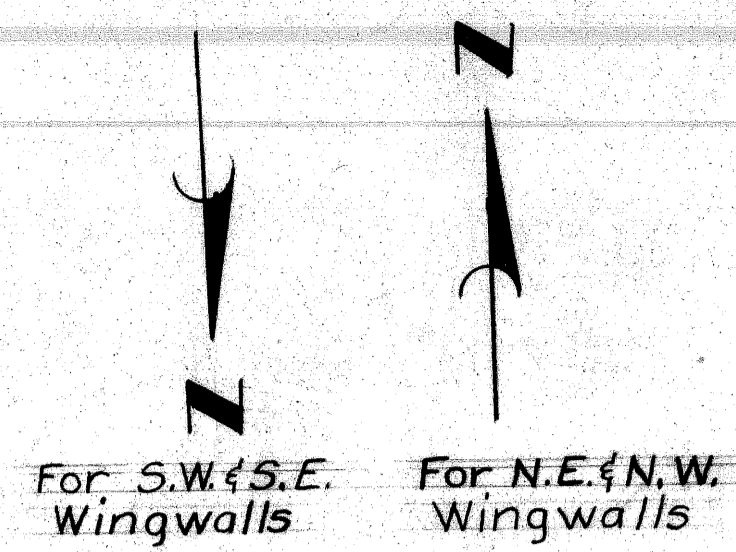
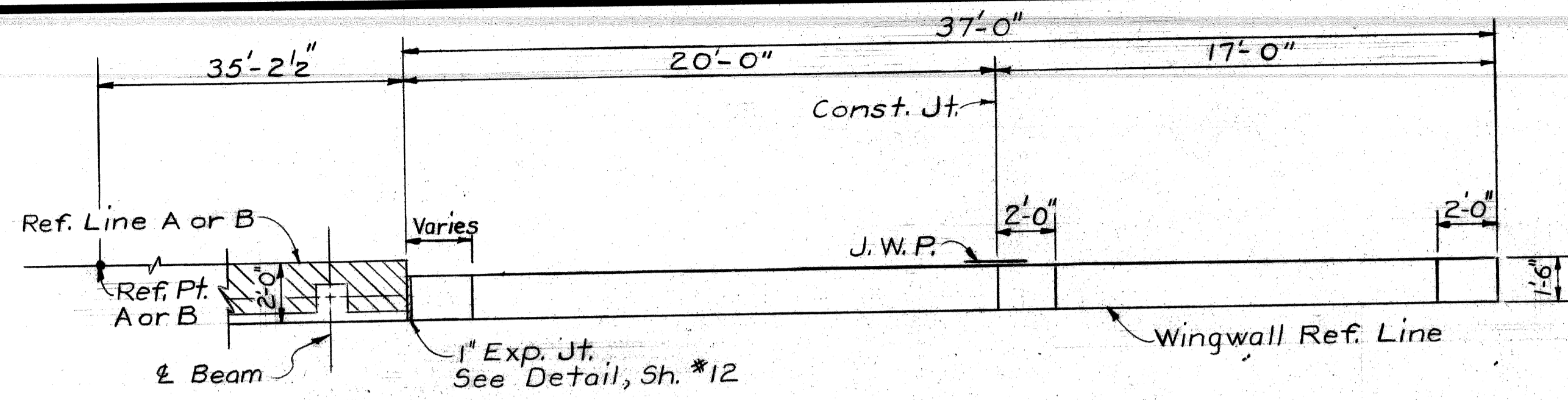
MICHIGAN DEPARTMENT OF STATE HIGHWAYS
BURT ROAD OVER JEFFRIES FREEWAY
IN DETROIT

WINGWALL DETAILS

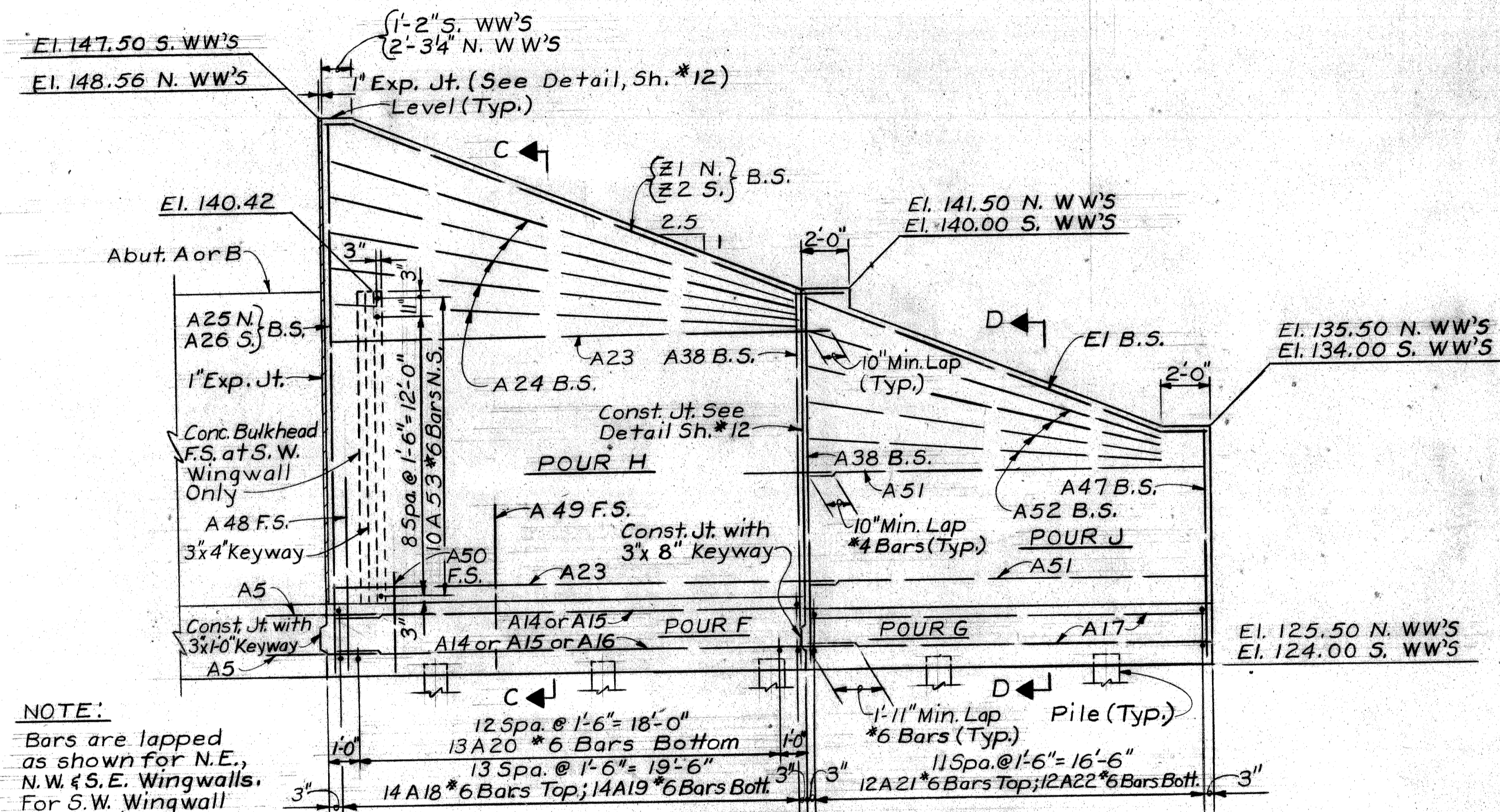
REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	Sturges	3-70
DRAWN BY	CONLEY	2-70
TRACED BY	Jones	2-70
CHECKED BY	KARBER	5-70
SHEET	11	OF 26

S22 of 82122J

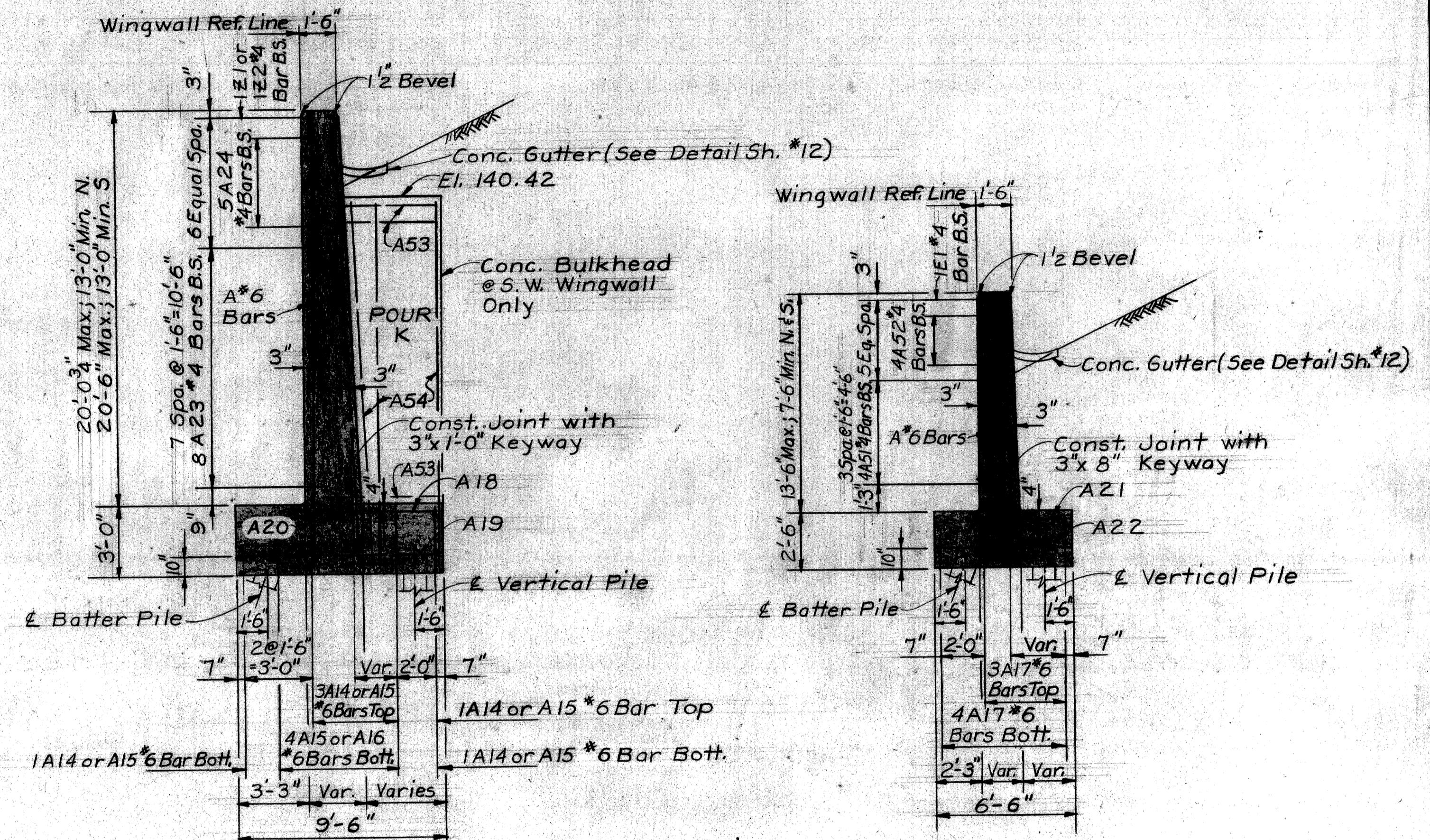


PLAN-TOP OF N.E. & S.W. WINGWALLS
(N.W. & S.E. Wingwalls Opposite Hand)



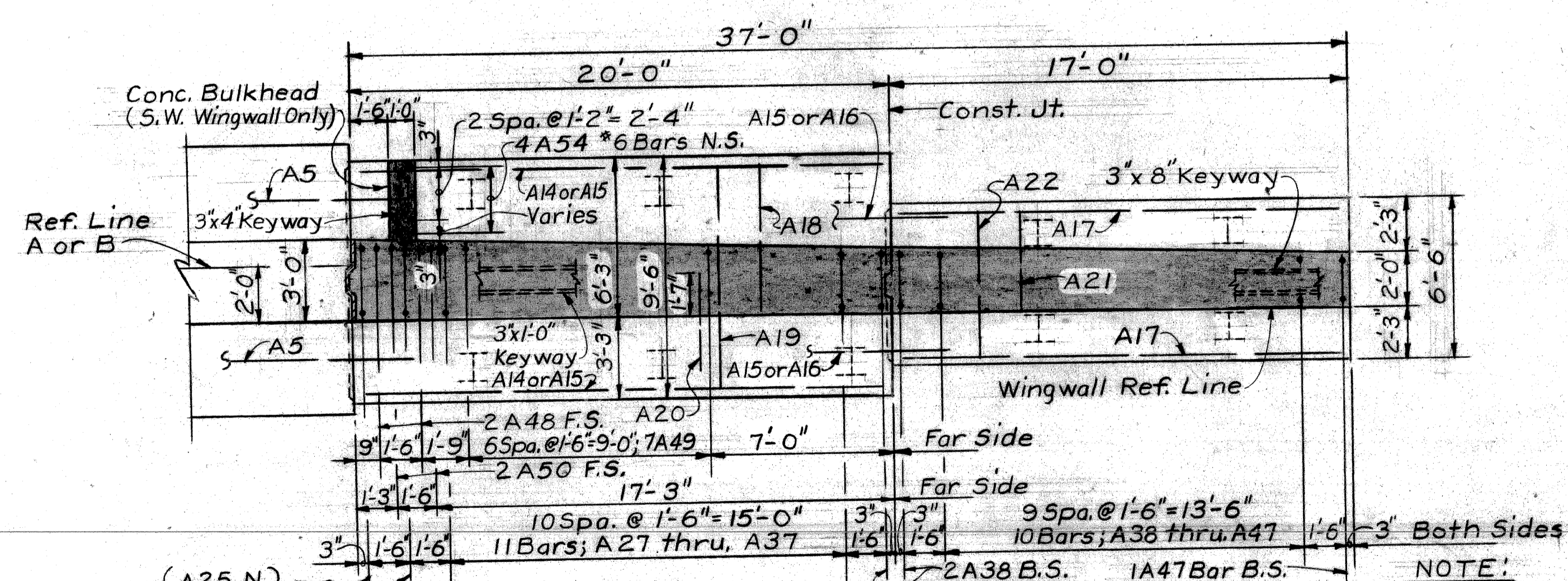
NOTE:
Bars are lapped as shown for N.E., N.W. & S.E. Wingwalls. For S.W. Wingwall lap details, see Abut. A Sh. *9.

ELEVATION - N.E. & S.W. WINGWALLS
(N.W. & S.E. Wingwalls Opposite Hand)



SECTION C-C

SECTION D-D



NOTE:
All Vertical Stem Bars are *6.

FOUNDATION PLAN - N.E. & S.W. WINGWALLS
(N.W. & S.E. Wingwalls Opposite Hand)

Work Sheets 9 thru 12 Together

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
BURT ROAD OVER JEFFRIES FREEWAY
IN DETROIT

WINGWALL DETAILS

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

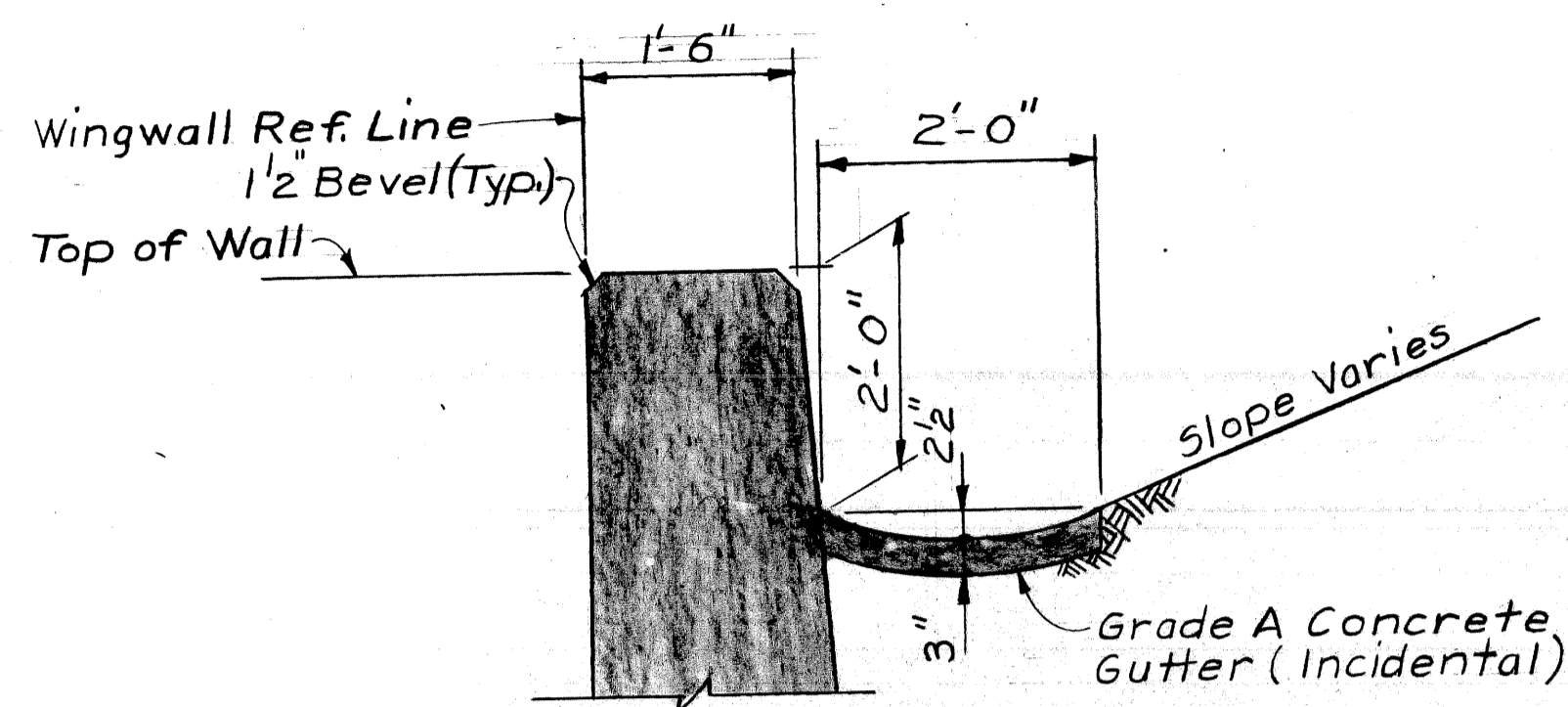
APPROVED: [Signature] STRUCTURAL ENGINEER

JGB No. 990(20)

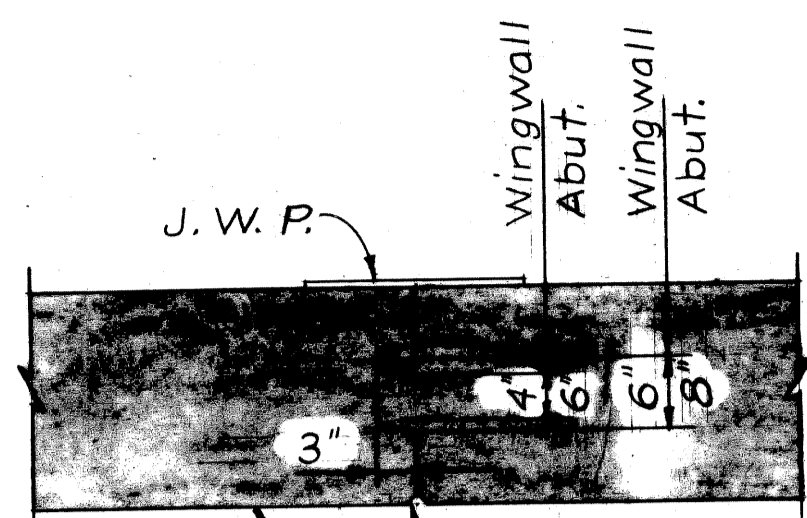
NO.	DESCRIPTION	DATE	BY

SQUAD ROSS: SWAN 8-70
DRAWN BY: CANNON 2-70
TRACED BY: JONES 2-70
CHECKED BY: KARKER 5-70
SHEET 11 OF 26

S22 of 82122J

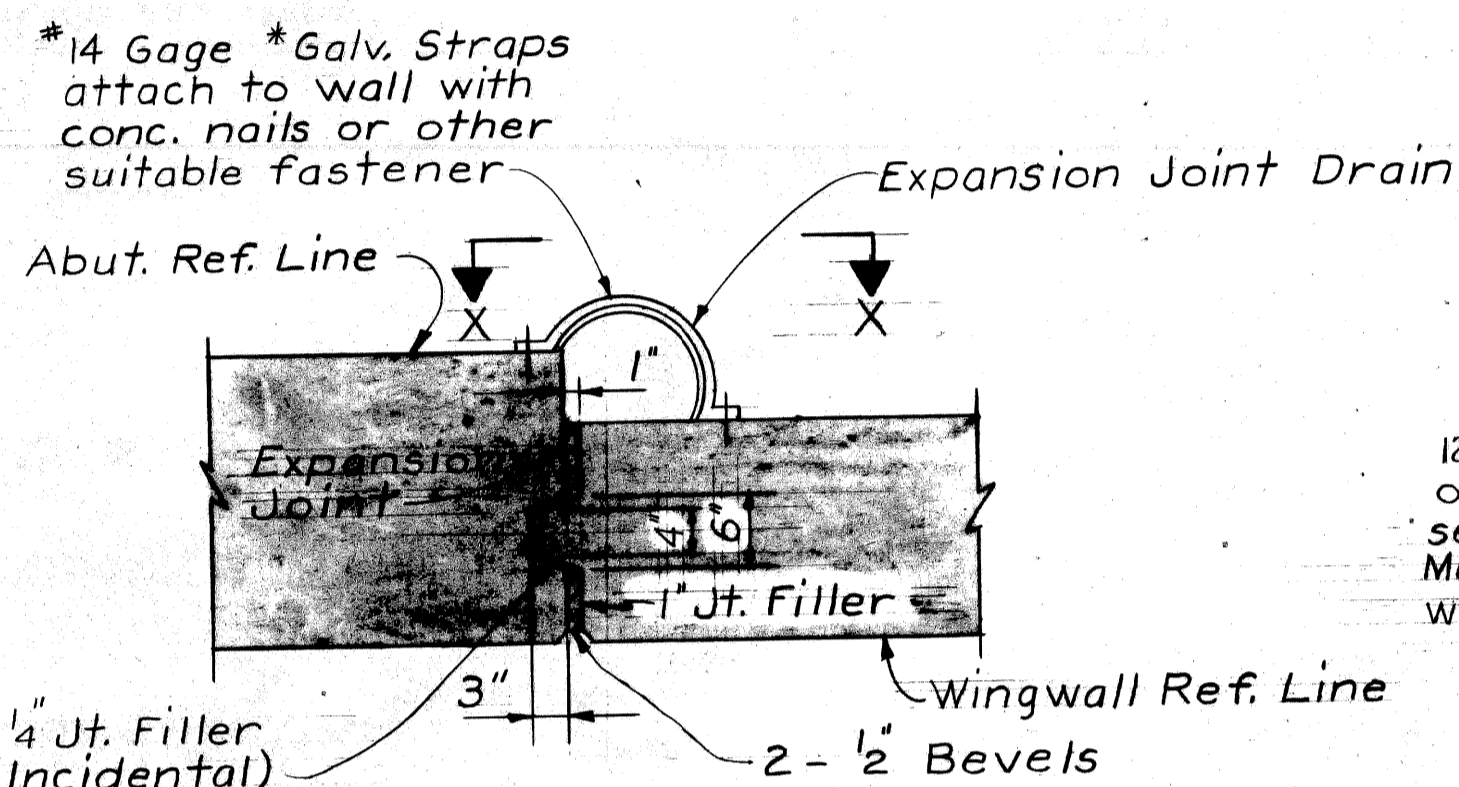


CONCRETE GUTTER DETAIL

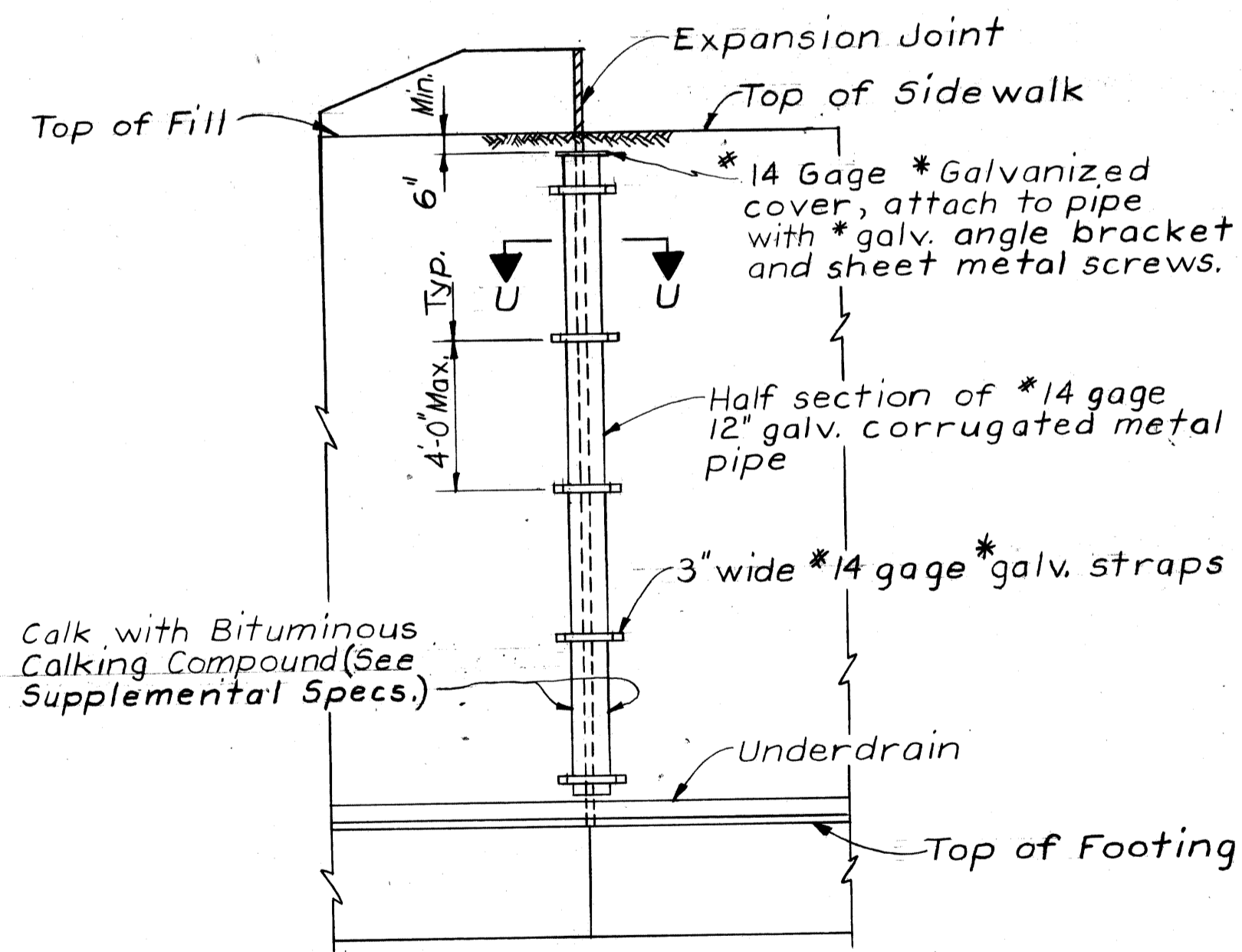


NOTE:
 Stop all Keyways 1'-0" below top of Wingwalls or Abutment
 Stop J.W.P. 2'x0" below top of Wingwall

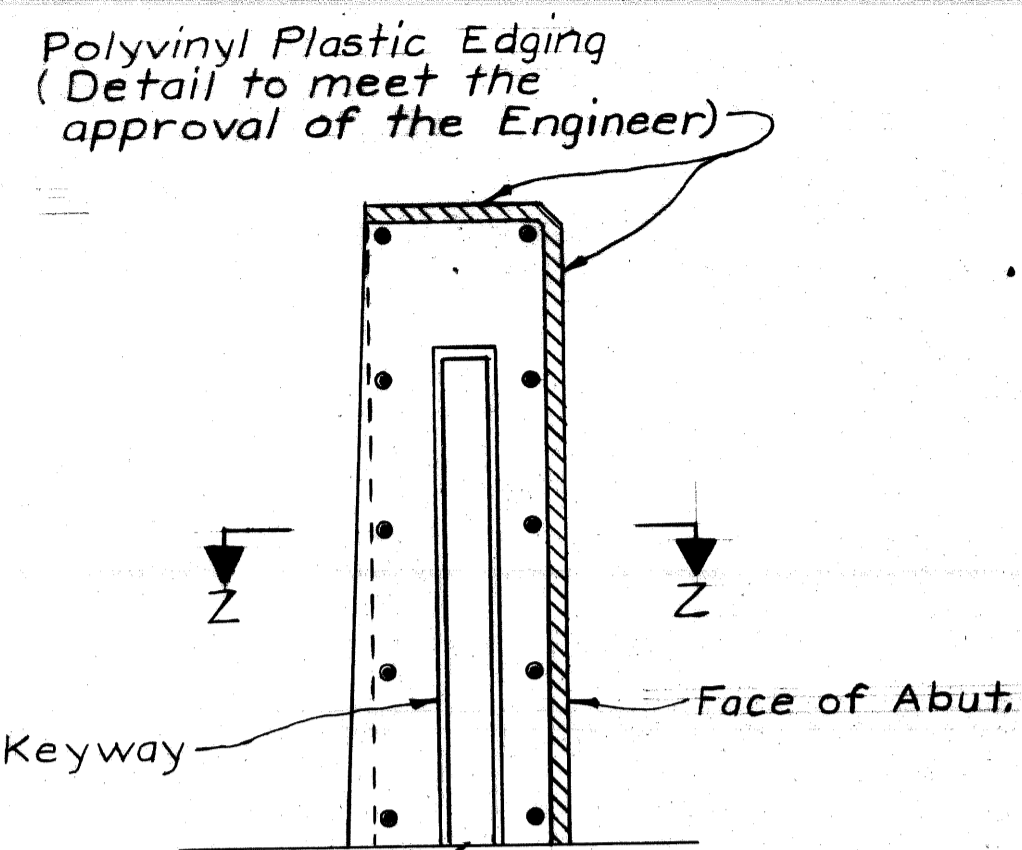
CONSTRUCTION JOINT DETAIL



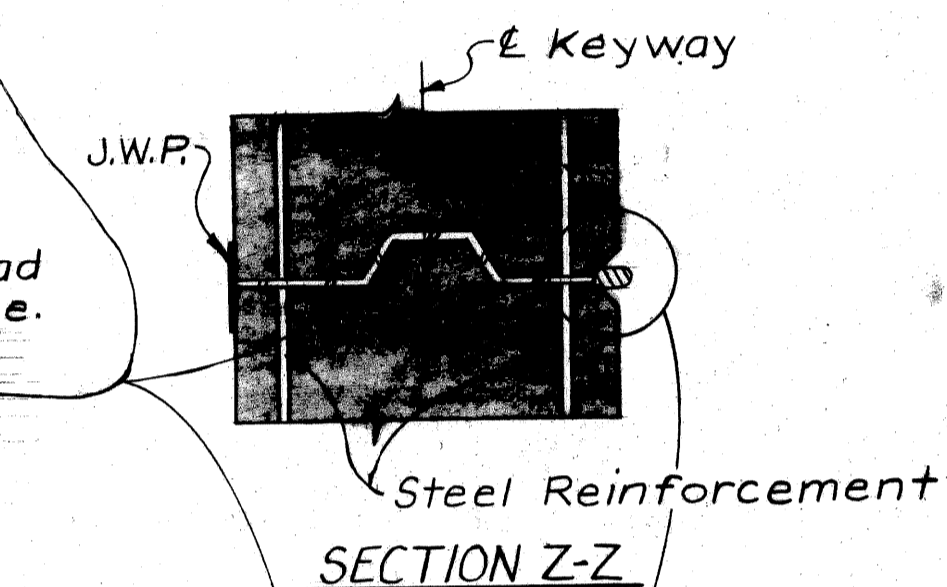
EXPANSION JOINT DETAIL AND SECTION U-U



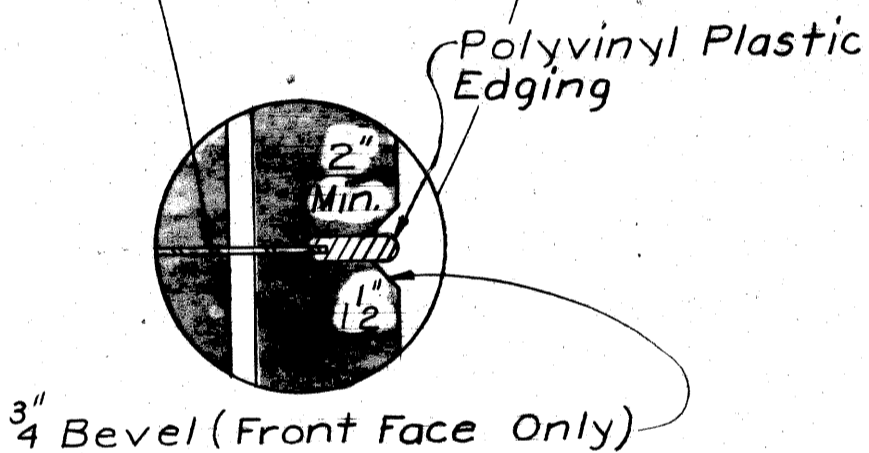
VIEW X-X - EXPANSION JOINT DRAIN



SECTION AT CONST. JT.



SECTION Z-Z



METAL BULKHEAD FOR ABUTMENT CONSTRUCTION JOINT

NOTES:

The metal bulkhead may be used as alternate construction joint at contractor's expense.
 Care is to be used in casting concrete around bulkhead to prevent dislocation or misalignment of the bulkhead.
 Cut holes in metal bulkhead for reinforcing steel.

CONCRETE QUANTITIES (Cu. Yds)					
Pour	Location	Abutment A		Abutment B	
		A(6A)	A(6AA)	A(6A)	A(6AA)
A	Abut. Footing	55.7	—	55.7	—
B	Abut. Footing	26.5	—	26.5	—
C	Abut. Wall	—	28.2	—	27.3
D	Abut. Wall	—	31.6	—	30.7
E	Abut. Wall	—	28.2	—	27.3
F	All Wingwall Footings	42.2	—	42.2	—
G	All Wingwall Footings	20.4	—	20.4	—
H	All Wingwalls	—	53.0	—	52.8
J	All Wingwalls	—	23.8	—	23.8
K	Bulkhead - S.W. Wingwall	—	1.7	—	—
M	Bulkhead - Abut. B	—	—	—	1.9
Totals		144.8	166.5	144.8	163.8
Concrete Grade A (6A) - Substructure				289.6	Cu. Yds.
Concrete Grade A (6AA) - Substructure				330.3	Cu. Yds.

MISCELLANEOUS QUANTITIES				
Item	Unit	Amount		
		Abut. A	Abut. B	Total
Unclassified Excavation	Cu. Yds.	80	80	160
Clear Protective Coating for Substr. Conc.	Sq. Ft.	881	851	1732
Low Temp. Protection - Substr. Conc.	Cu. Yds.	311.3	308.6	619.9
2" Joint Filler	Sq. Ft.	108	108	216
1" Joint Filler	Sq. Ft.	92	90	182
Joint Waterproofing	Sq. Ft.	82	80	162
Expansion Joint Drain	Lin. Ft.	35	34	69
Foundation Drains *	Lin. Ft.	152	152	304

* Foundation Drains shall be perforated pipe, sloped 1/8" ft. min. continuous over the length of Abutment and Wingwall Footings, and placed as shown on the General Plan of Structure.

GENERAL NOTES:

J.W.P. denotes Joint Water proofing; N.S. denotes Near Side; F.S. denotes Far Side; B.S. denotes Both Sides.
 For bevel and molding details see Standard Sheet R16.

For pile quantities, pile layout, and notes pertaining to piles see Sheet #8.
 Clear protective coating for substructure concrete is to be applied to the bridge seat and to the front face of the abutment to limit shown on plans.

Work Sheets 9 thru 12 Together

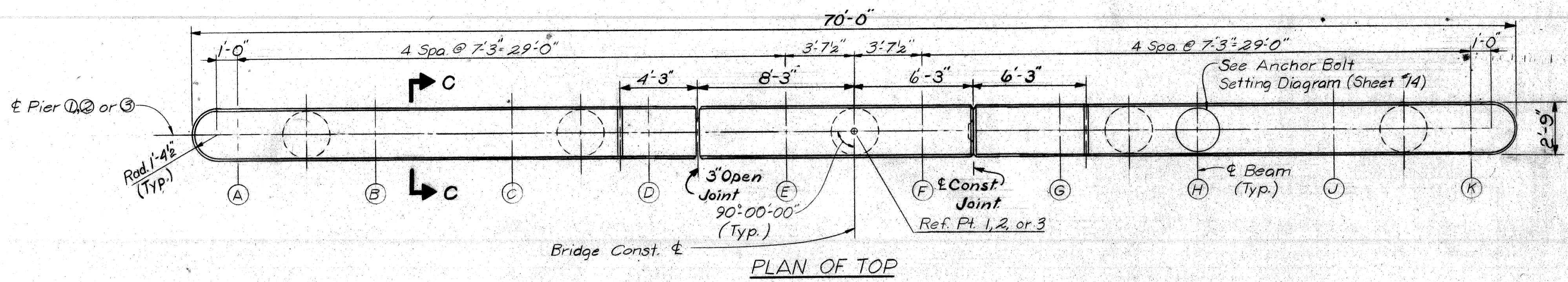
MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 BURT ROAD OVER JEFFRIES FREEWAY
 IN DETROIT
 ABUTMENT DETAILS

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

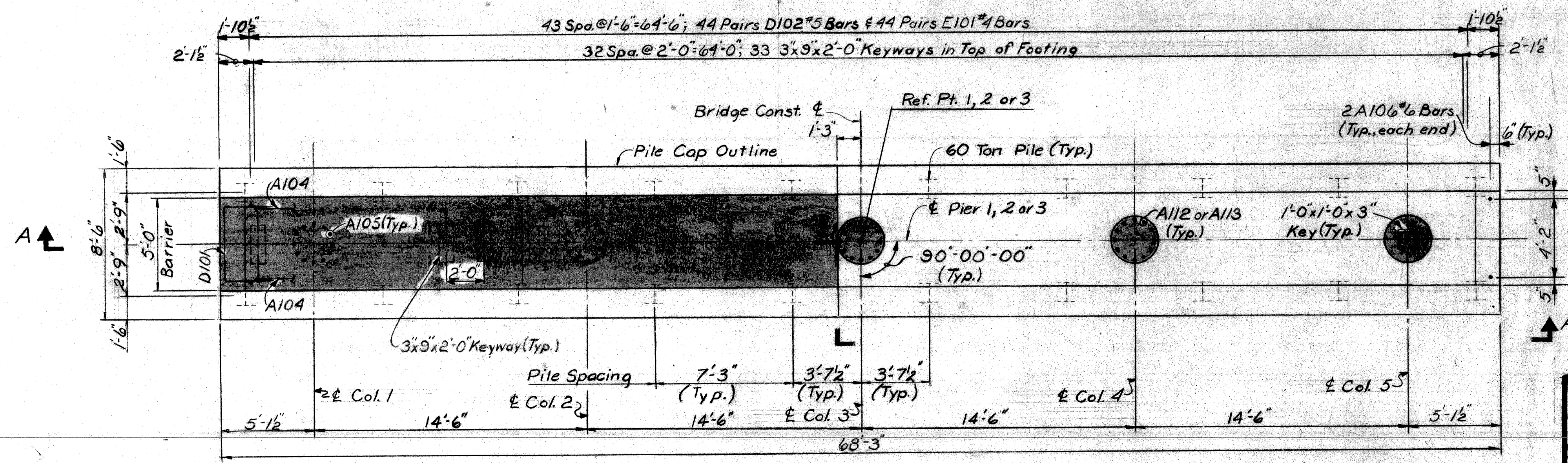
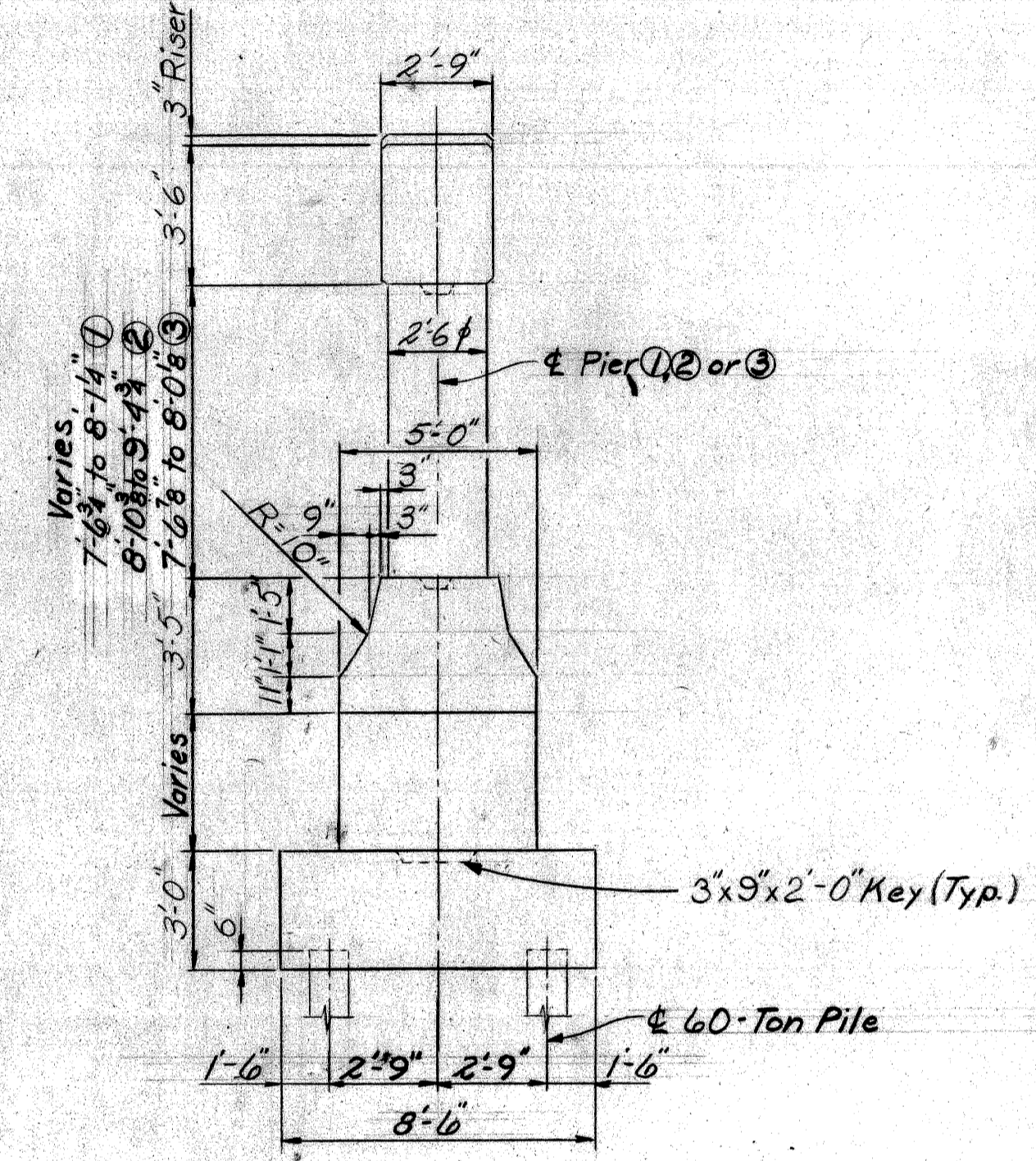
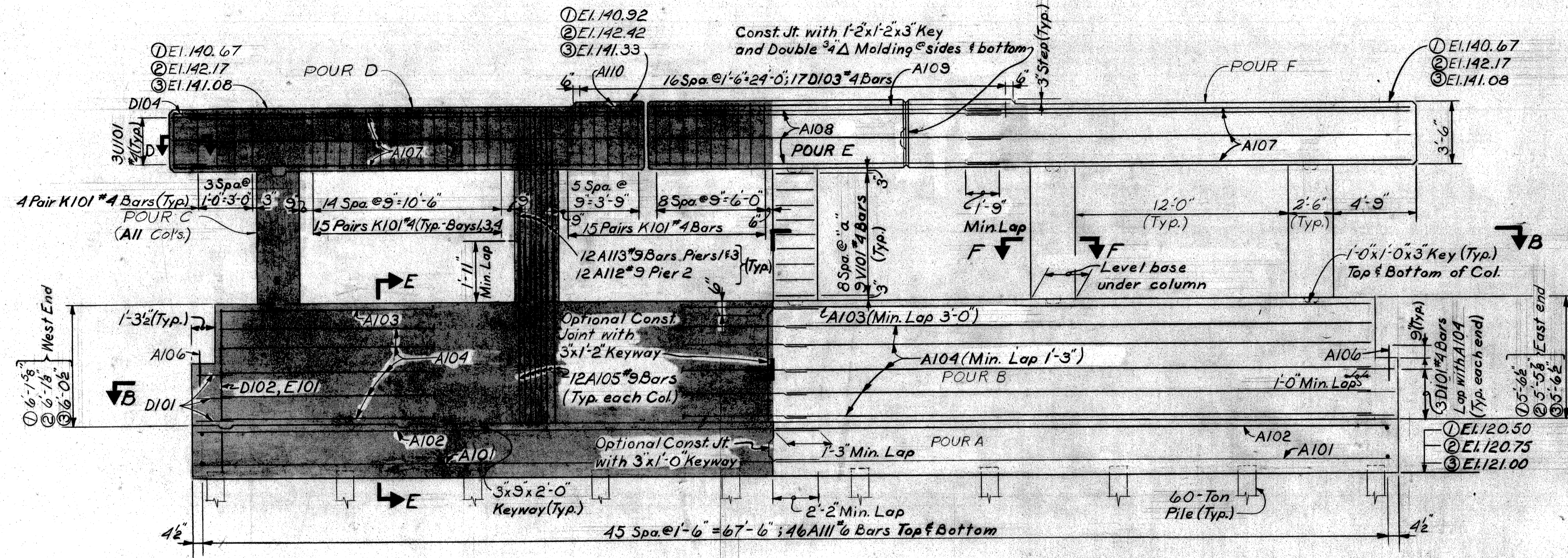
JOB No.
 990(20)

REVISIONS			
NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT			
DESIGNED BY	SKYLER	1-70	
DRAWN BY	JONES	2-70	
CHECKED BY	COMLY	2-70	
SHEET 12 OF 26			
S22 of 82122J			



VIOI SPACING "a" % of BARS (in.)			
Col.	1	2	3
1	10 3/8	12 1/2	10 3/8
2	10 3/8	12 3/4	10 3/8
3	11	13	10 3/8
4	11 1/4	13 1/8	11 1/8
5	11 3/8	13 3/8	11 1/4



Work sheets 13 & 14 together

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 BURT ROAD OVER JEFFRIES FREEWAY IN DETROIT

PIER DETAILS

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

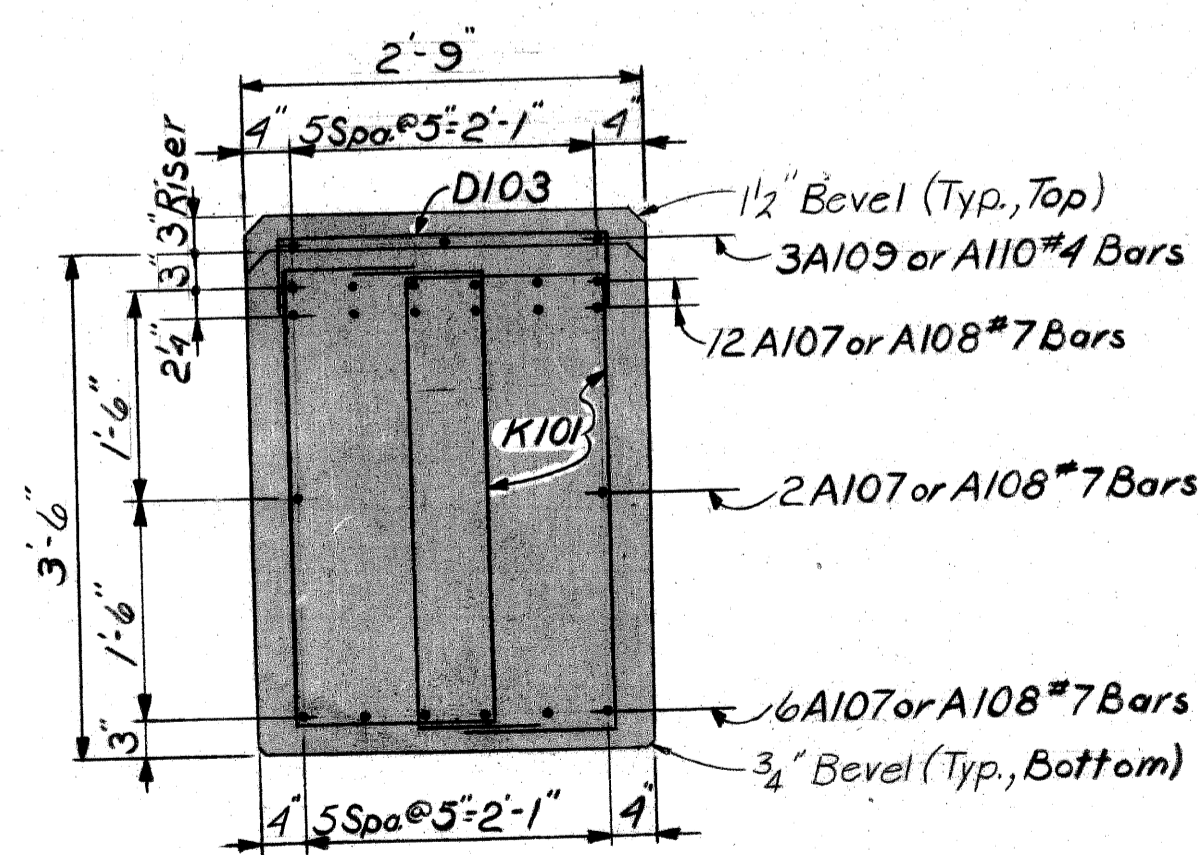
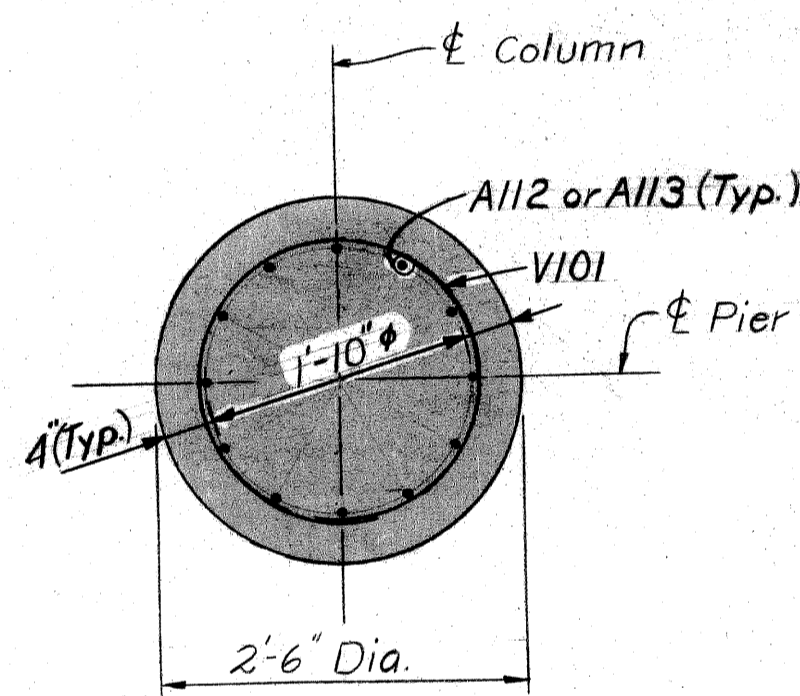
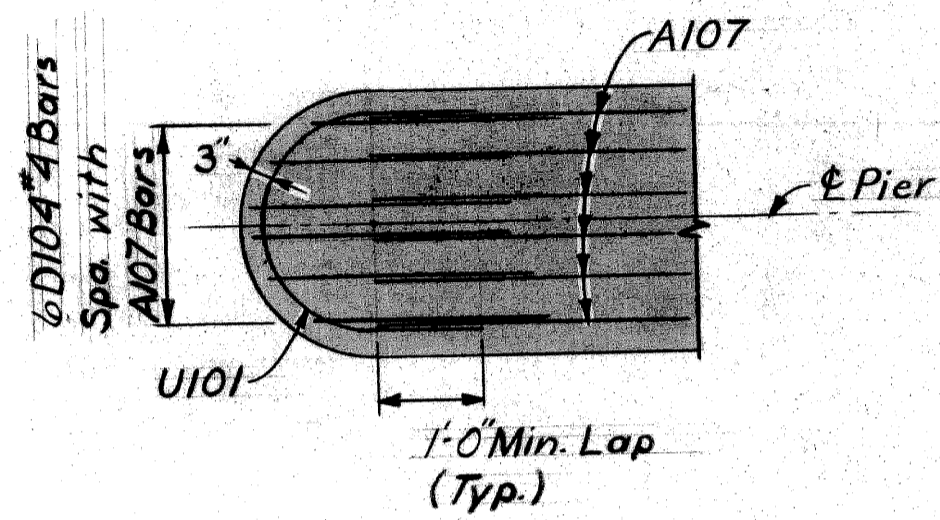
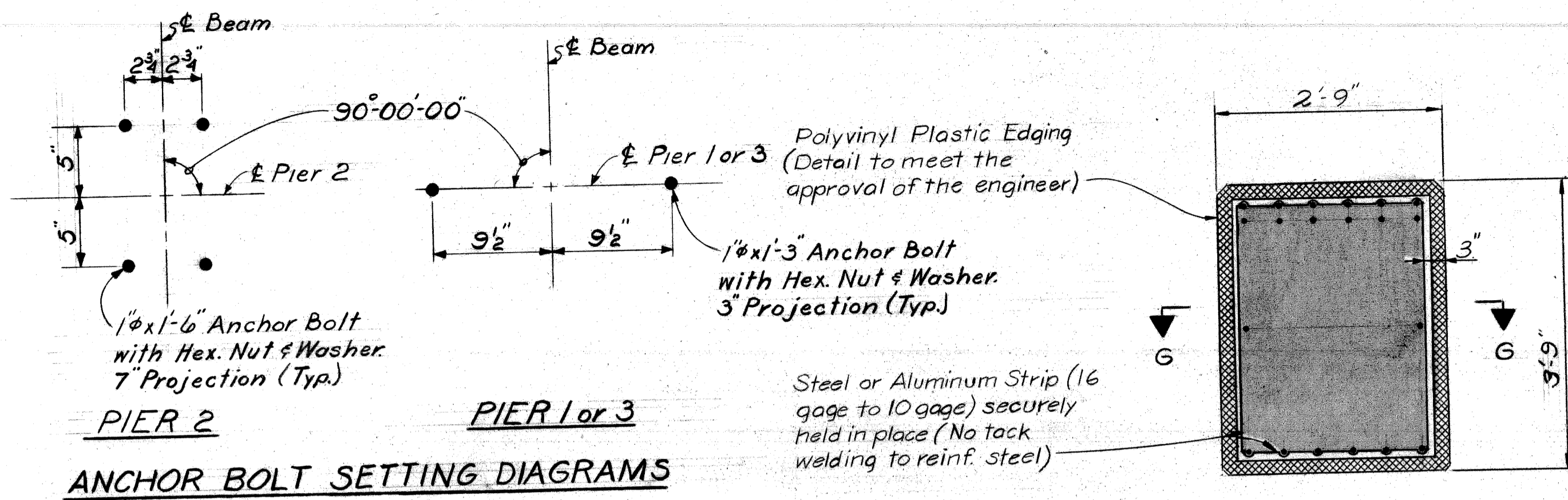
APPROVED: [Signature] STRUCTURAL ENGINEER

JOB No. 990(20)

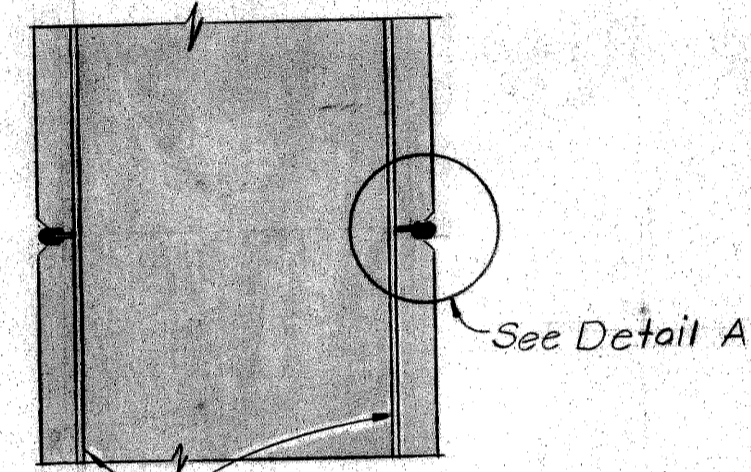
REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS: [Signature]
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 SHEET 13 OF 26

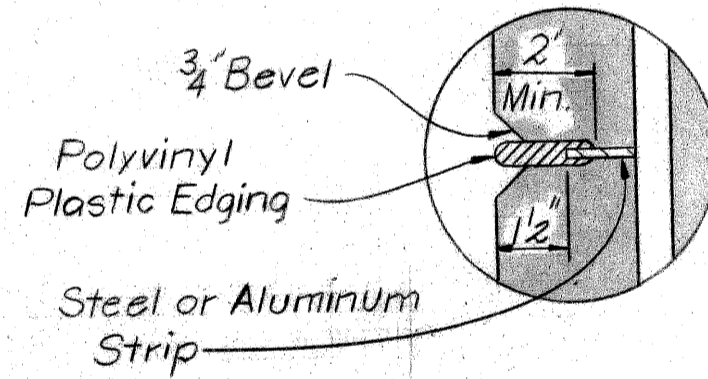
S22 of 82122J



SECTION THRU PIER CAP

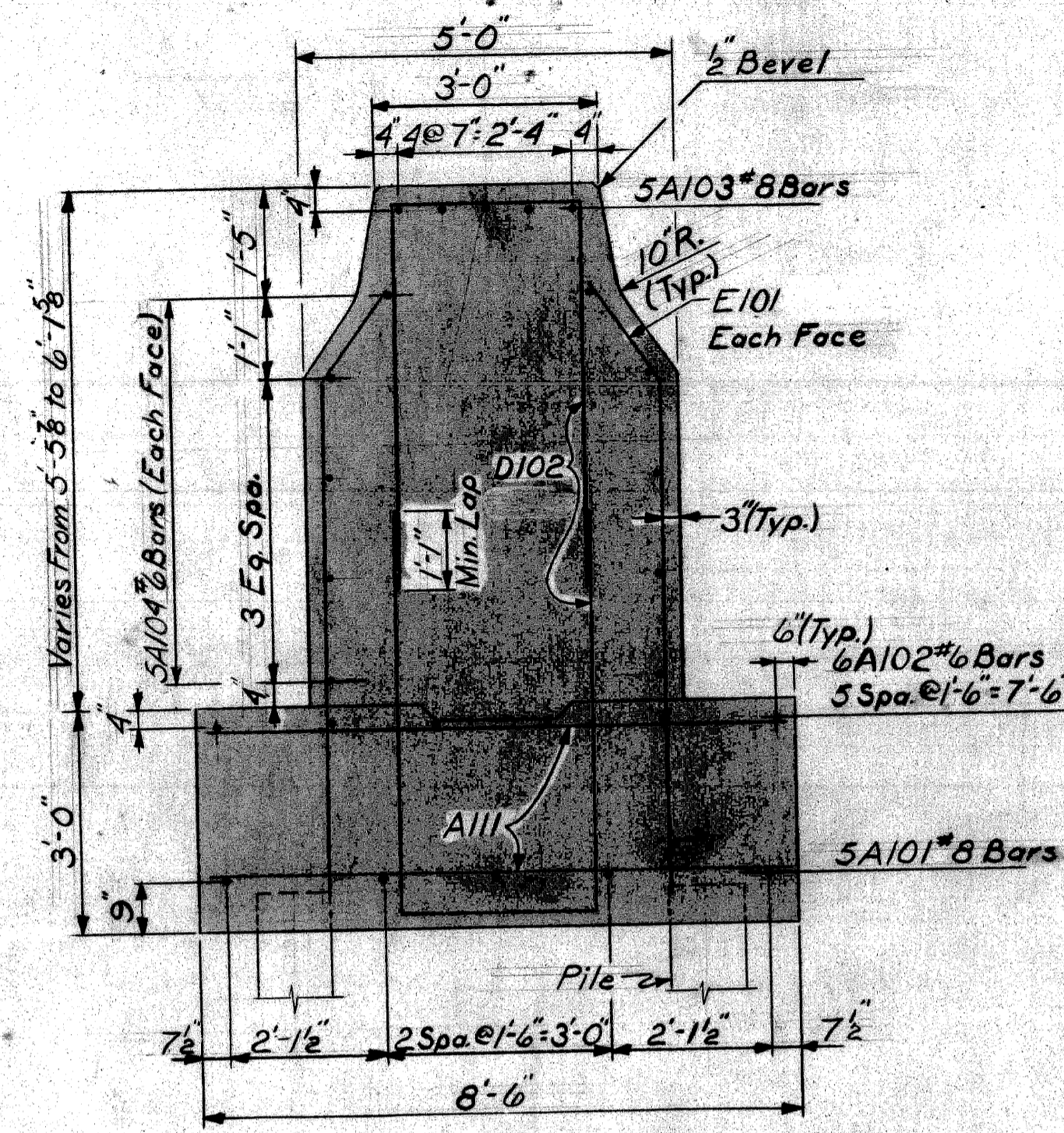


SECTION G-G



PARTIAL METAL BULKHEAD (For Pier Cap Construction Joint)

NOTES:
 Partial metal bulkhead may be used as alternate construction joint at contractor's expense.
 Care is to be used in casting concrete around bulkhead to prevent dislocation or misalignment of the bulkhead.
 Notch metal strip to fit around reinforcing steel.



SECTION E-E

GENERAL NOTES:

For bevel and molding details, see standard sheet R16.
 Adjust the spacing of the reinforcing steel as required to permit placing of anchor bolts.
 For pile quantities, pile layout and notes pertaining to piles, see sheet 8.
 Clear protective coating for substructure concrete is to be applied to the complete area of the pier concrete above footings.
 ⊗ Denotes pier number.

CONCRETE QUANTITIES (Cu. Yds.)

POUR	LOCATION	Pier 1		Pier 2		Pier 3	
		A(6A)	A(6AA)	A(6A)	A(6AA)	A(6A)	A(6AA)
A	Pier Cap	64.5		64.5		64.5	
B	Barrier		64.2		63.7		63.5
C	Columns		7.1		8.4		7.1
D	Pier Cap		9.5		9.5		9.5
E	Pier Cap		5.5		5.5		5.5
F	Pier Cap		10.3		10.3		10.3
TOTALS		64.5	96.6	64.5	97.4	64.5	95.9
Concrete Grade A(6A) - Substructure						193.5 Cu. Yds.	
Concrete Grade A(6AA) - Substructure						289.9 Cu. Yds.	

MISCELLANEOUS QUANTITIES

Item	Unit	Amount			Totals
		Pier 1	Pier 2	Pier 3	
Unclassified Excavation	Cu. Yds.	152	152	152	456
Clear Protective Coating for Substructure Concrete	Sq. Ft.	2200	2260	2196	6656
Low Temp. Protection - Substructure Concrete	Cu. Yds.	161.1	161.9	160.4	483.4

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

APPROVED: [Signature] STRUCTURAL ENGINEER

JOB No.
 990(20)

Work sheets 13 & 14 together

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 BURT ROAD OVER JEFFRIES FREEWAY IN DETROIT

PIER DETAILS

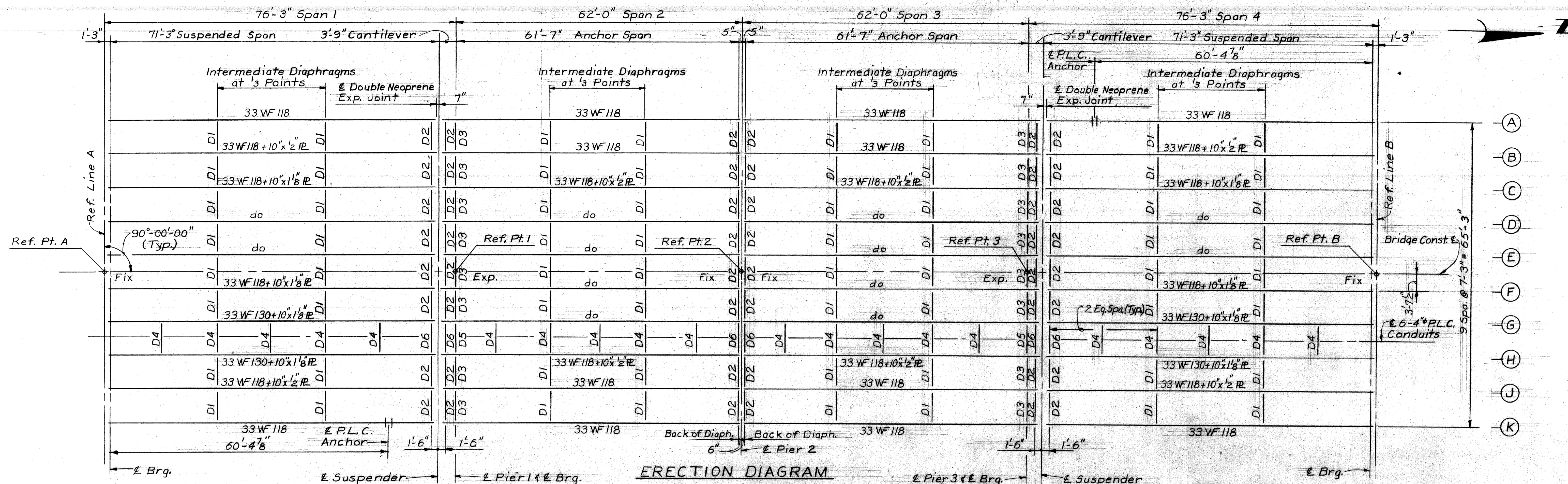
REVISIONS

NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT

SQUAD BOSS: STORM 8-10
 DRAWN BY: K. HARRIS 2-70
 TRACKED BY: W. BERRY 5-70
 CHECKED BY: [Signature] 7-70
 SHEET 18 OF 26

S22 of 82122J



ERECTION DIAGRAM

STRUCTURAL STEEL NOTES:

Design: Michigan Department of State Highways Specifications for Design of Highway Bridges - 1958 edition and current AASHTO Specifications for Highway Bridges. HS 20-44 Loading.

Fabrication: Michigan Department of State Highways Standard Specifications for Highway Construction - 1970 edition.

Shop Connections shall be welded as shown on the plans.

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

The beams are to have a parabolic camber with ordinates as shown on the camber diagram. This camber is to be measured with the beam lying on its side. Allowable camber tolerance shall be ± 1/4". Heating is to be used, if necessary, to assure camber permanency within the above tolerance. The dead load deflection of the beams alone is shown in the camber & deflection Table, Sh. 16.

Sole Plates 3" or more in thickness may be built up by welding together plates not less than 1/2" in thickness. Edges must be beveled 1/4" and welded with a continuous weld for the full perimeter. Welds shall be ground flush with faces of plates.

Magnetic particle inspection of welds is required and shall consist of 100% inspection of not less than one fabricated section selected at random for each ten sections or fractions thereof.

Steel in anchor bolts may be ASTM A-307. Position dowels and anchor bolts including nuts and washers shall be galvanized in accordance with ASTM Designation A-153.

Steel for pins shall be ASTM A-588. All steel material used for bearings, with exception of portion welded to beams, shall be galvanized in accordance with ASTM Designation A-123. Galvanizing shall be applied after fabrication of bearing. Millscale and foreign material shall be removed prior to galvanizing.

Cotter Pins shall be ASTM Designation A 304 Stainless Steel.

Bronze for washers shall be ASTM B100, or ASTM B-22.

Beam Dimensions are horizontal and along \perp Beam.

Anchor bolt lengths shown are minimum. Bolts longer than those shown may be furnished at no additional cost.

Structural Steel shall conform to ASTM A-588.

Structural Steel shall not be painted.

NOTE:
All cover plates are on the bottom flange.

QUANTITIES

Structural Steel -Furnishing and Fabricating(A-588 Rolled)	426,800 Lbs.
Structural Steel -Erection(A-588 Rolled)	426,800 Lbs.
Shear Developers	Lump Sum
* Includes weight of P.L.C. Steel and consists of:	
ASTM A-588 Steel	426,460 Lbs.
Sheet Lead	290 Lbs.
Bronze	50 Lbs.

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

APPROVED: *[Signature]*
STRUCTURAL ENGINEER

JOB No.
990(20)

Work sheets 15,16 & 17 together.

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
BURT ROAD OVER JEFFRIES FREEWAY
IN DETROIT

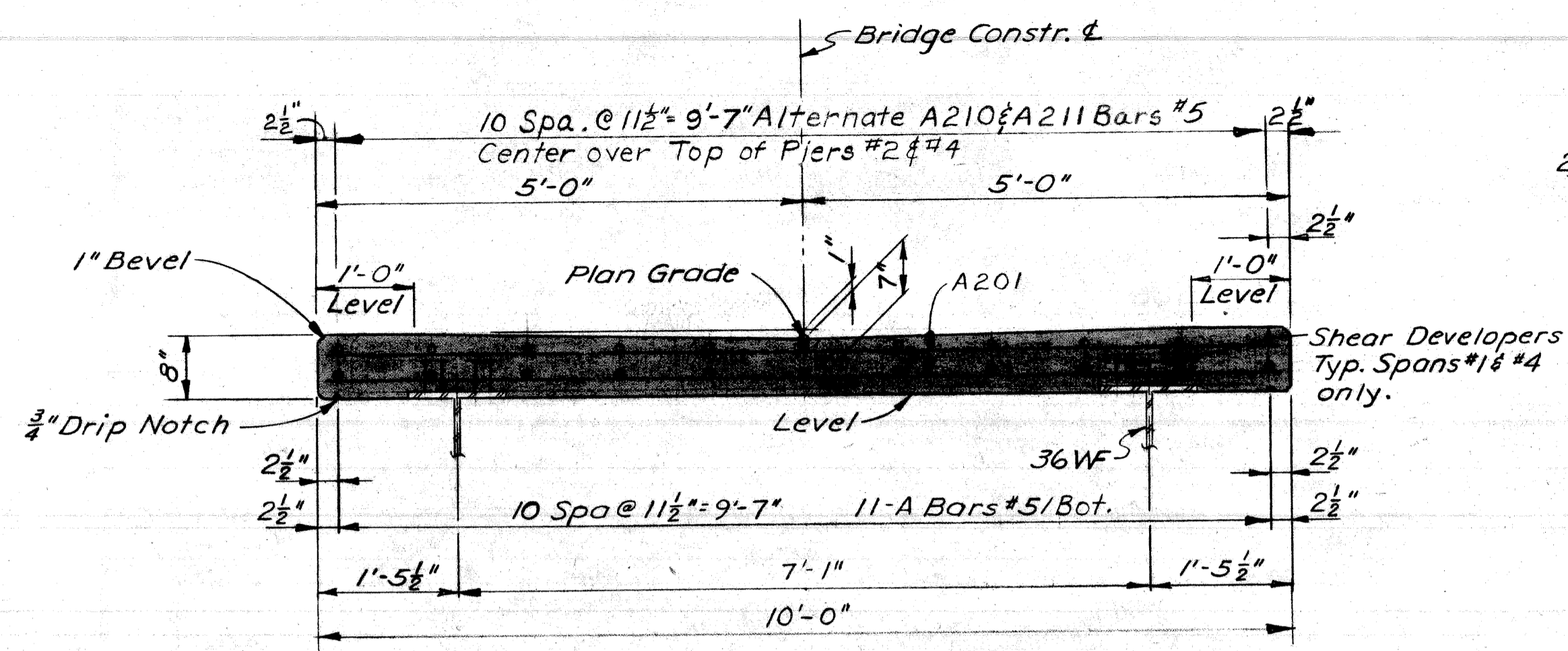
STRUCTURAL STEEL DETAILS

REVISIONS

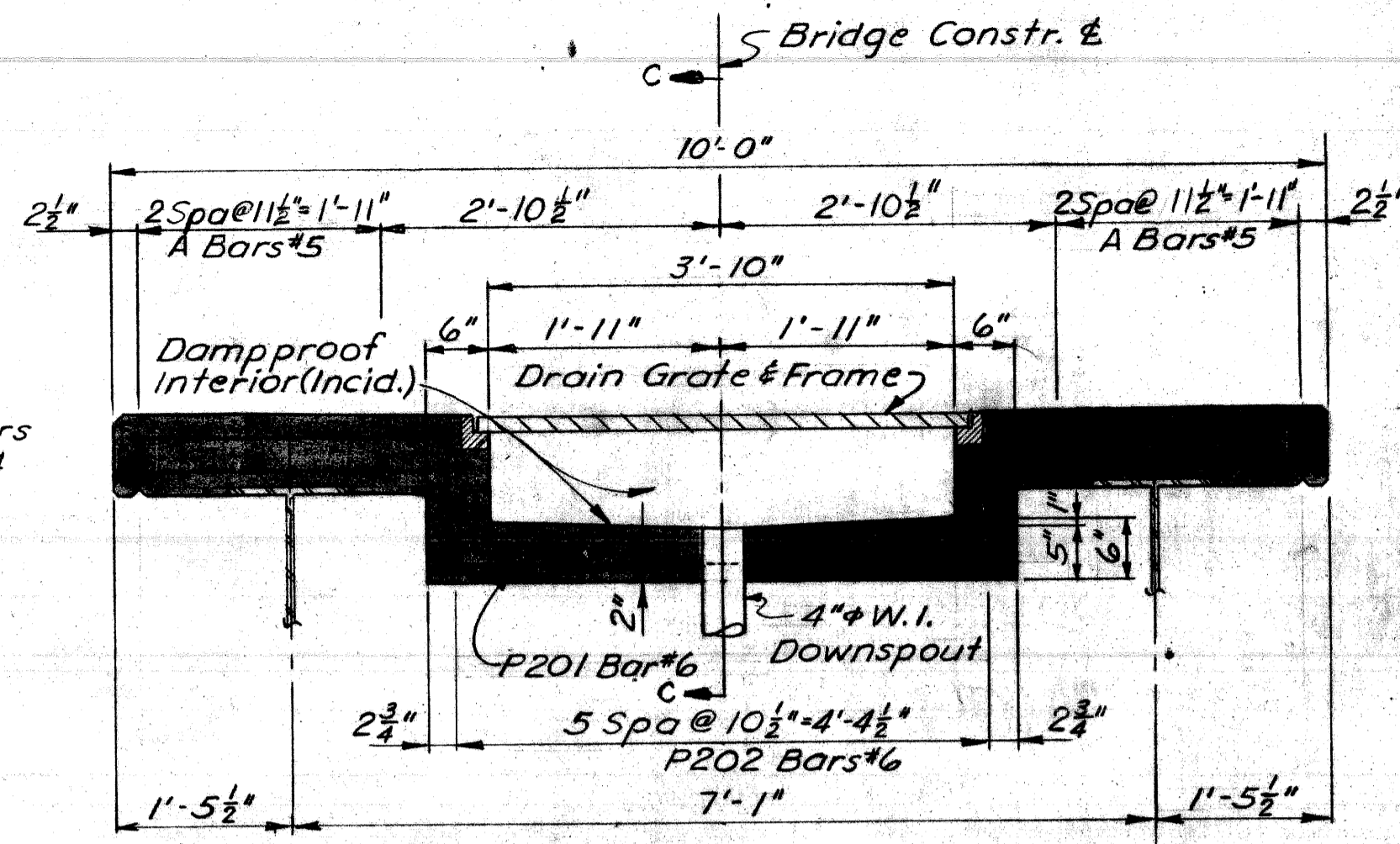
NO.	DESCRIPTION	DATE	BY

DRAWN BY: *[Signature]* 2-70
CHECKED BY: *[Signature]* 7-70
SHEET 15 OF 26

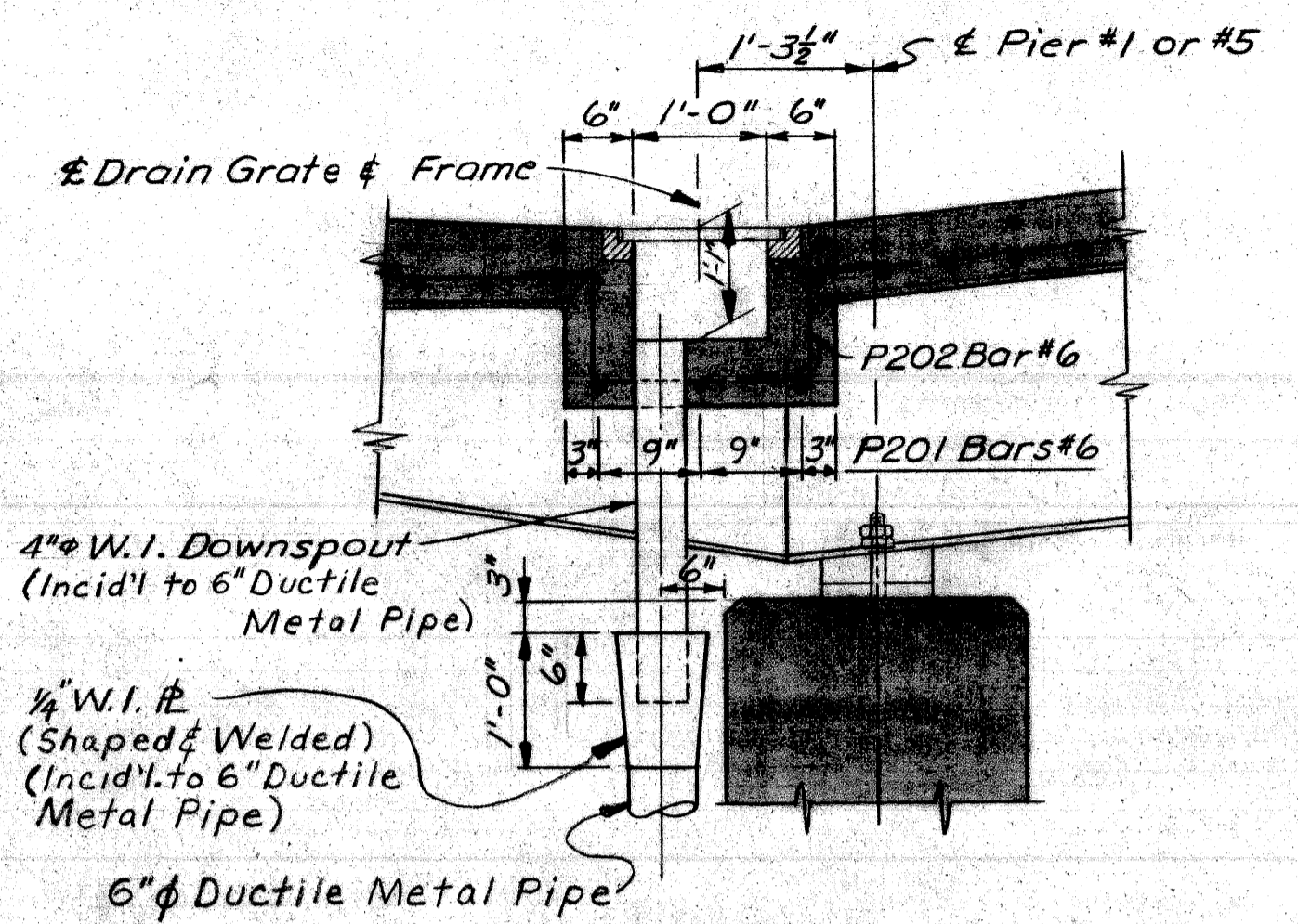
S22 of 82122 J



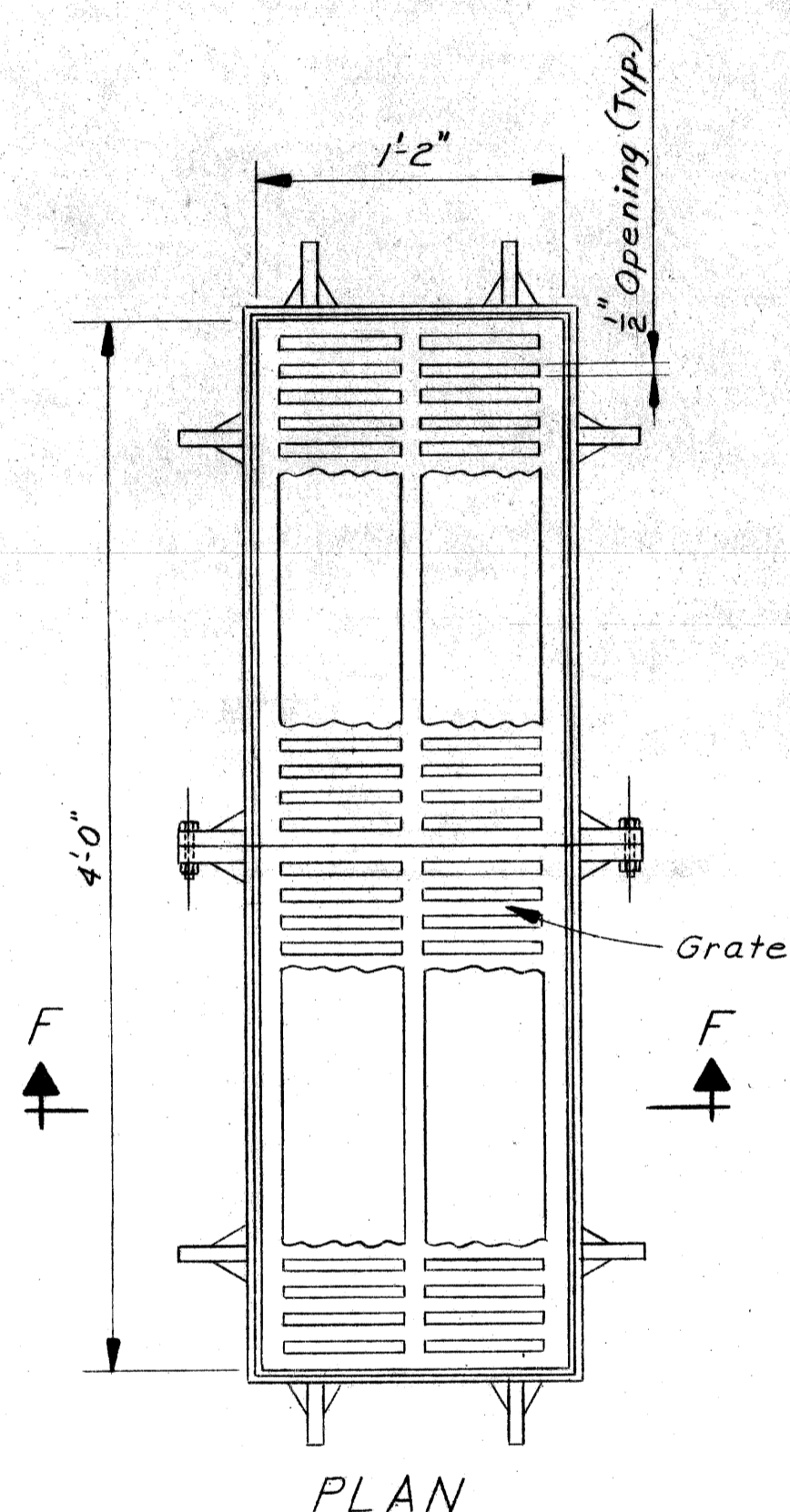
SECTION A-A



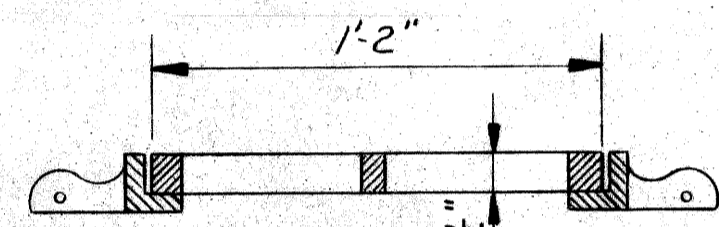
SECTION B-B



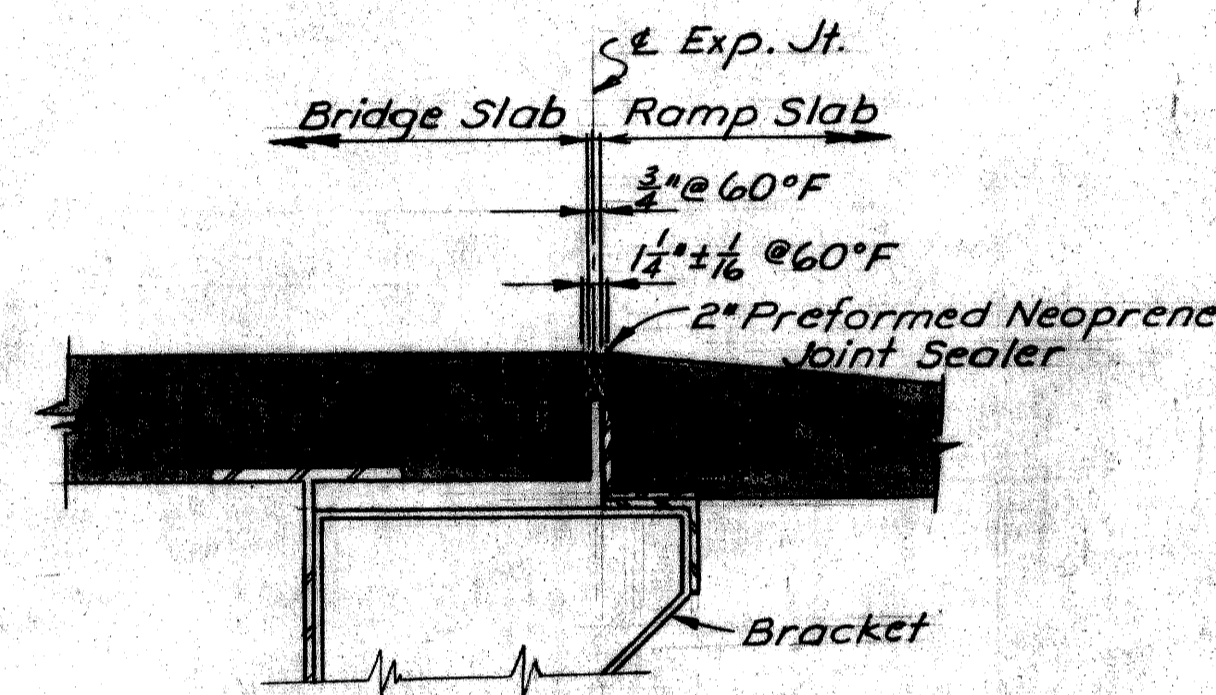
SECTION C-C



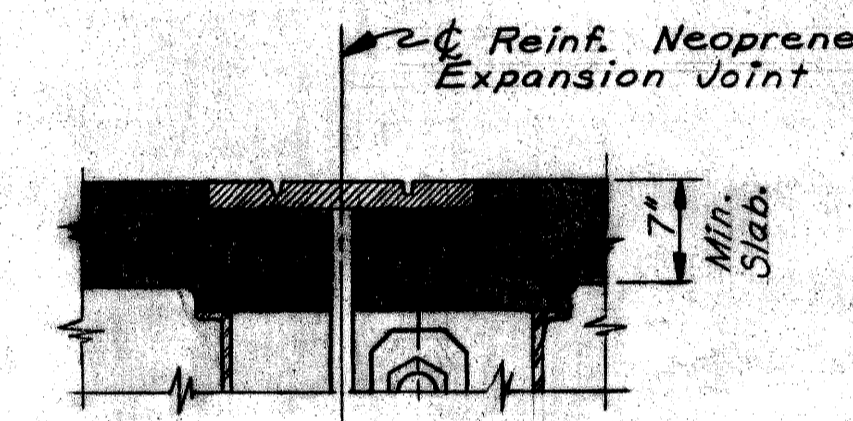
PLAN
DRAIN GRATE & FRAME DETAILS



SECTION F-F

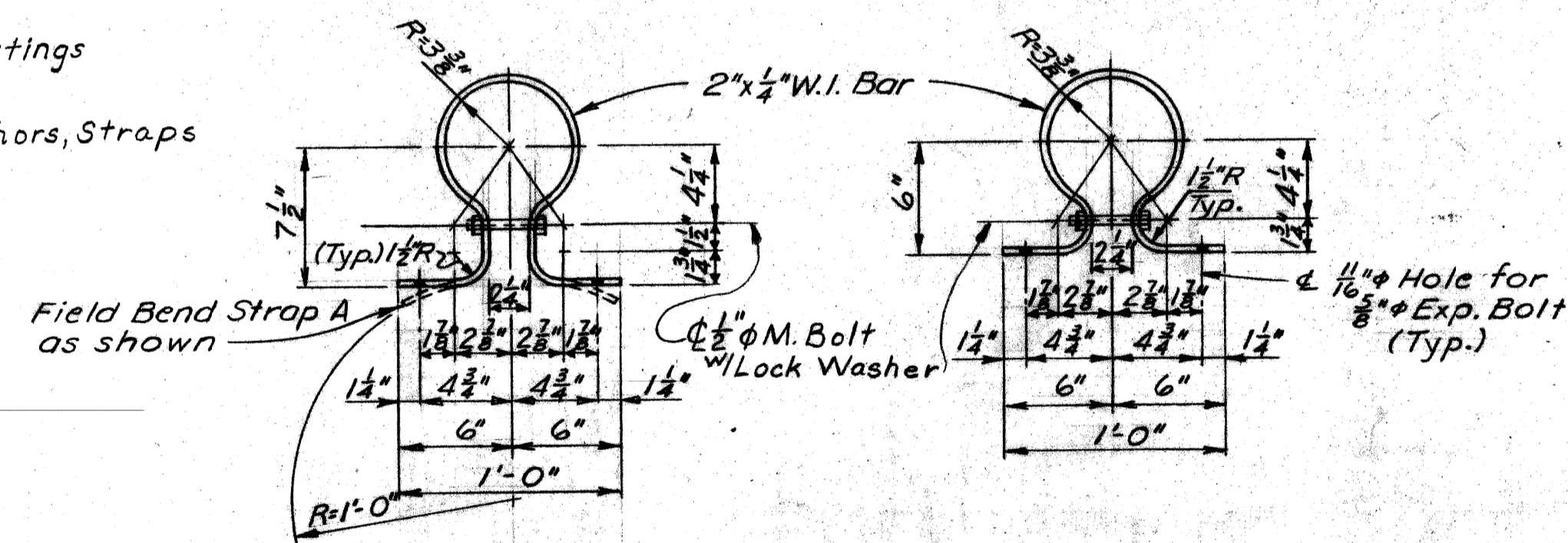


SECTION D-D



SECTION E-E

4 complete Frames with Anchors and Gratings are required. Material is to be Gray Iron Castings conforming to A.S.T.M. Specification A 48-64, or Ductile Iron Casting conforming to A.S.T.M. Specification A 536-67. Weight of Grates, Anchors, Straps and Frames is included in Structural Steel Weight. Grates shall be bolted to Frames.



STRAP A DETAIL

STRAP B DETAIL

CONCRETE QUANTITIES				
Pour	Span#1	Span#2	Span#3	Span#4
A	23.9	16.3	16.3	24.9
Total Gr. A(6AA)=81.4 Cu.Yds.				

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	AMOUNT
Water Reducing Retarding Admixture	Gals.	12.0
1/4" Preformed Neoprene Jt. Sealer	Lin. Ft.	10.0
2" Preformed Neoprene Jt. Sealer	Lin. Ft.	19.0
Protective Treatment for Bridge Details	Sq. Ft.	3425.0
Low Temperature Protection Superstr. Conc.	Cu. Yds.	81.4

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

SUPERSTRUCTURE DETAILS

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

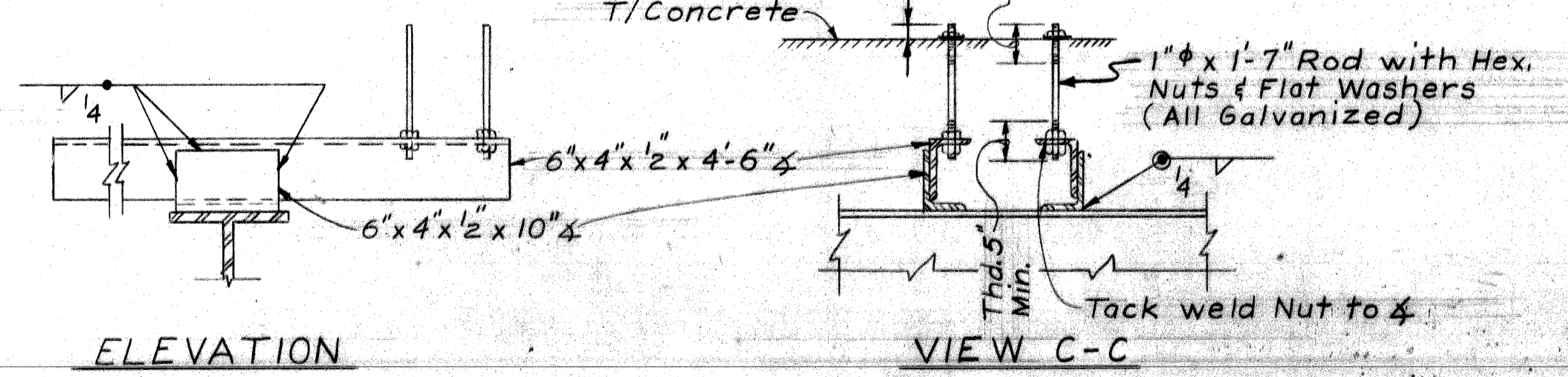
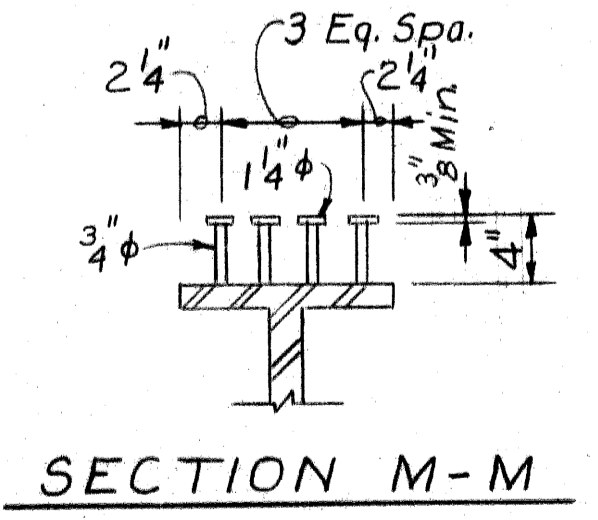
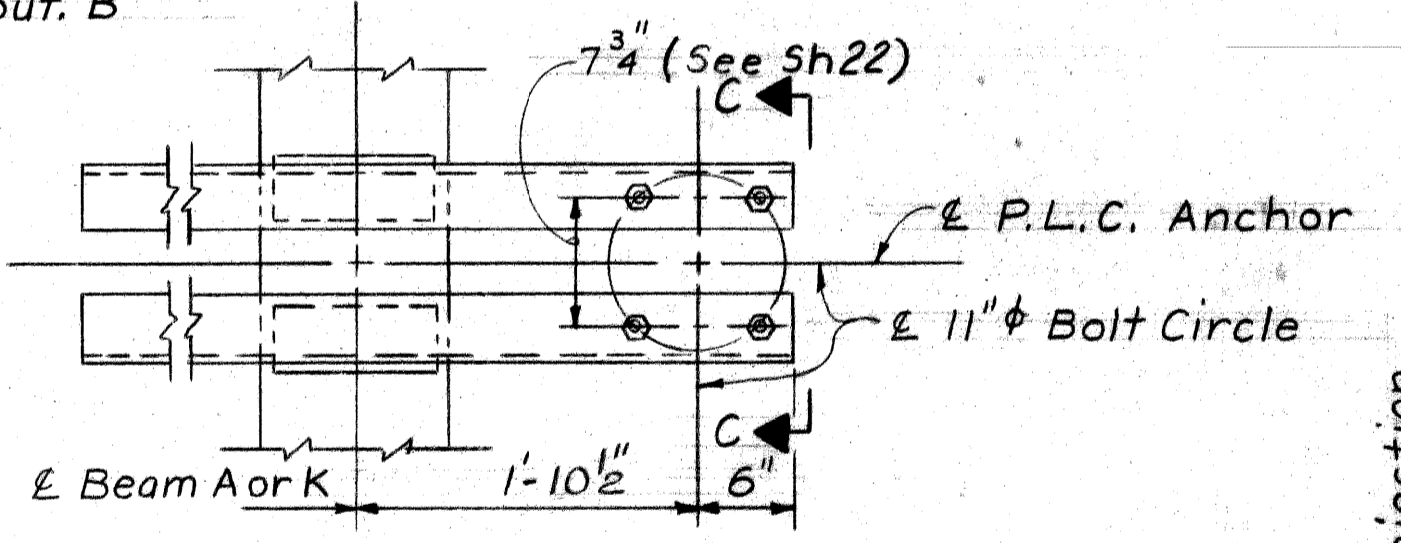
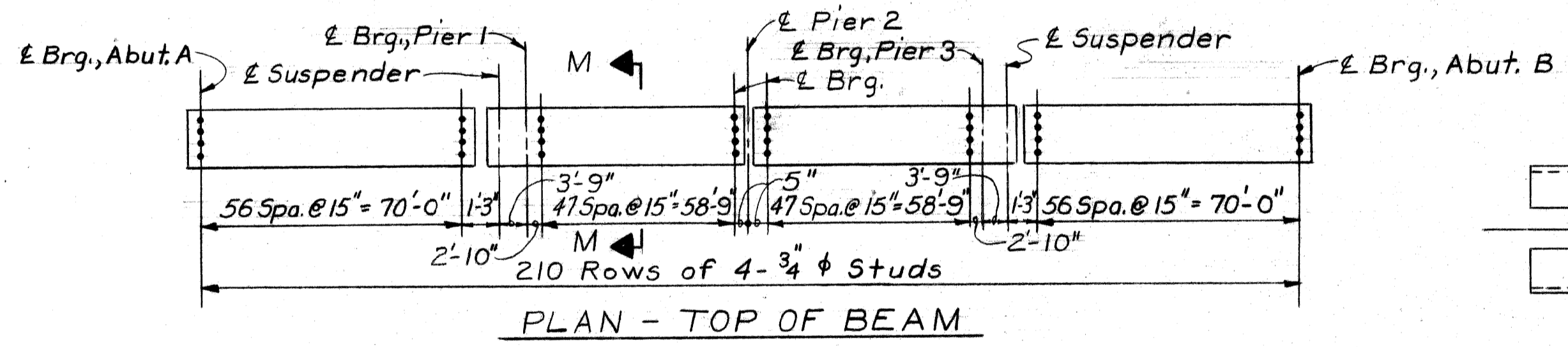
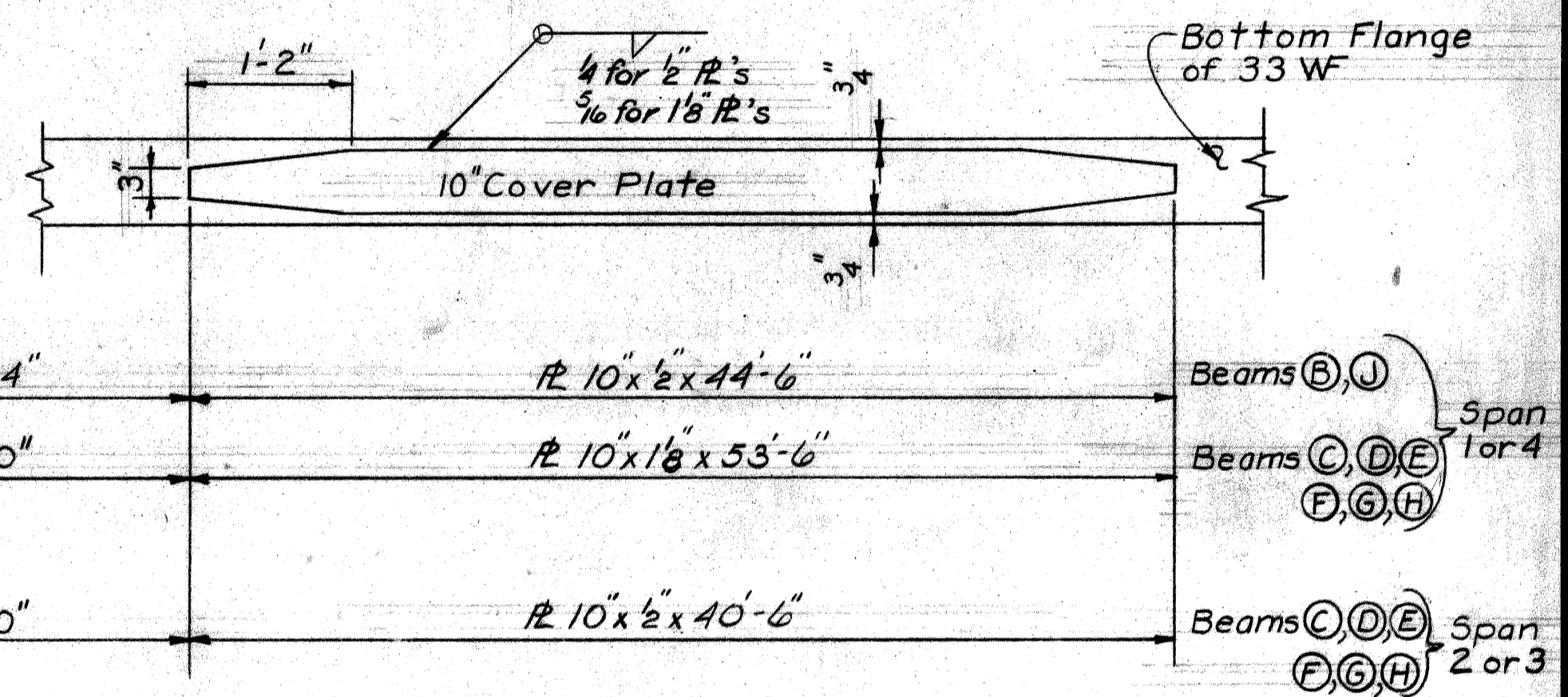
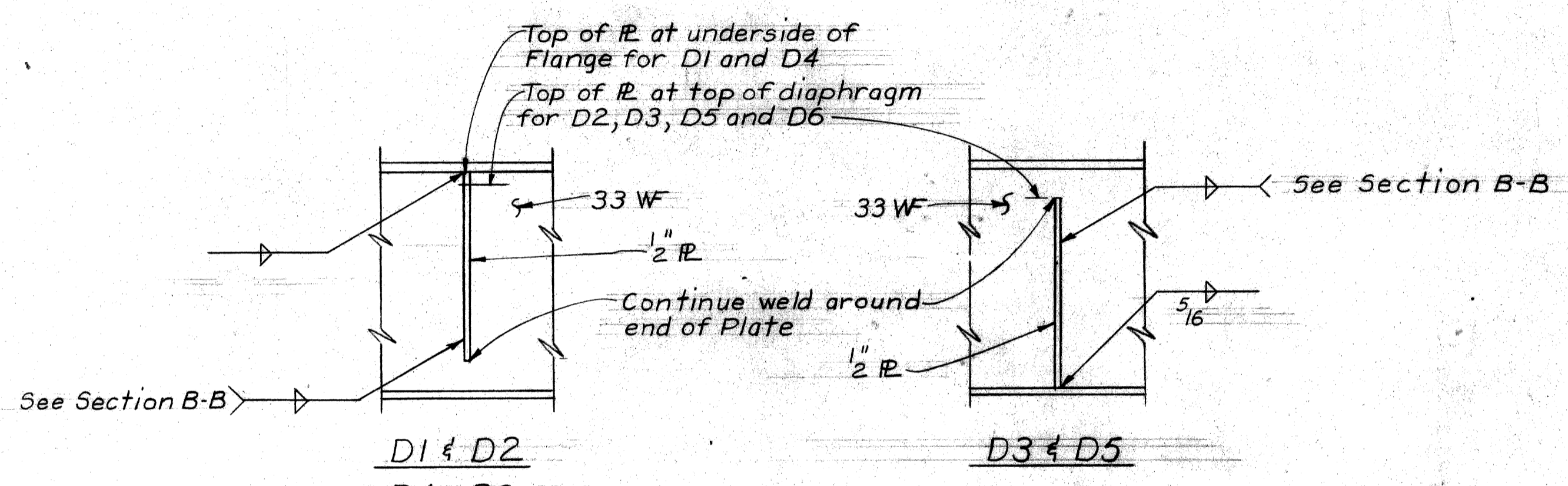
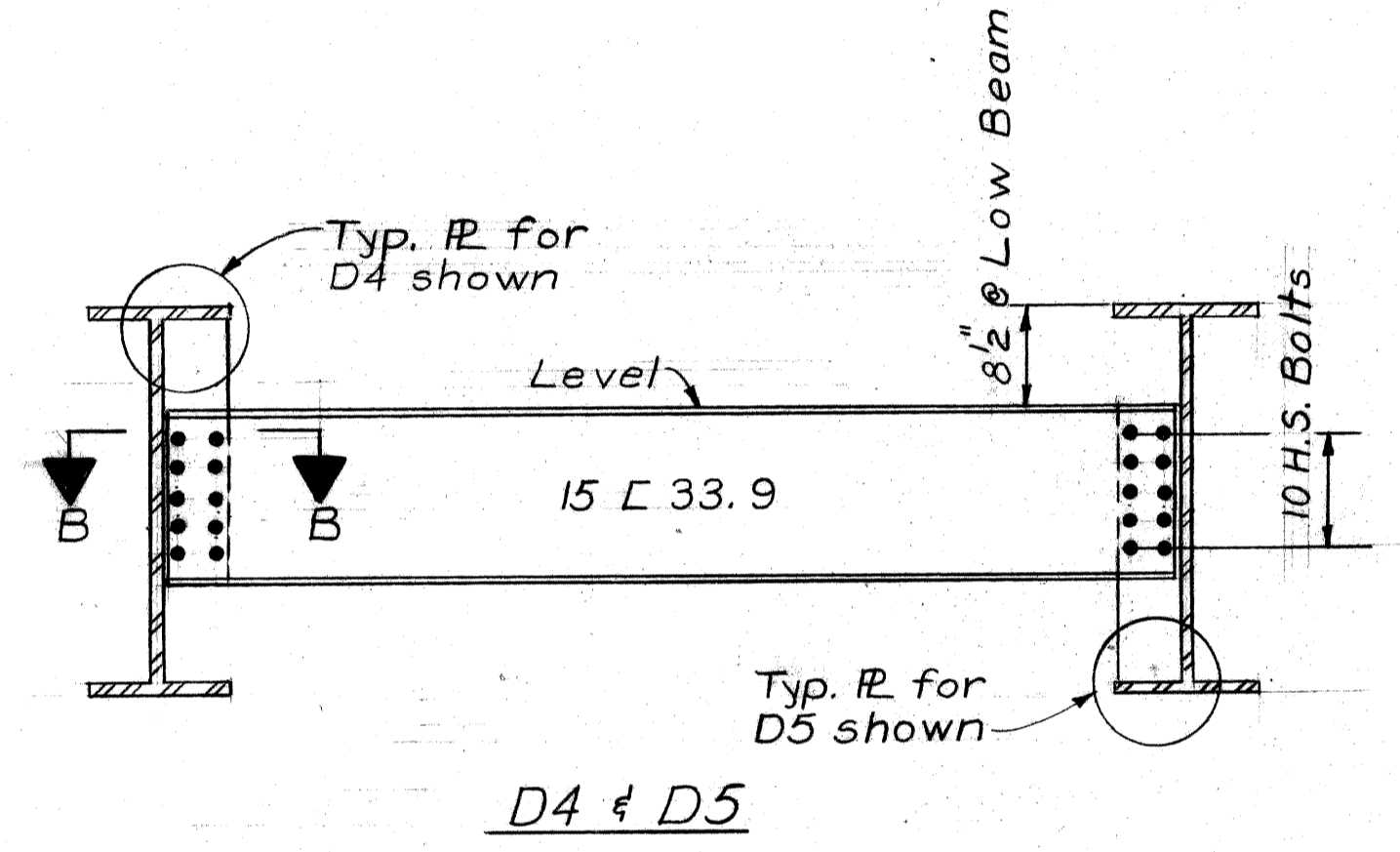
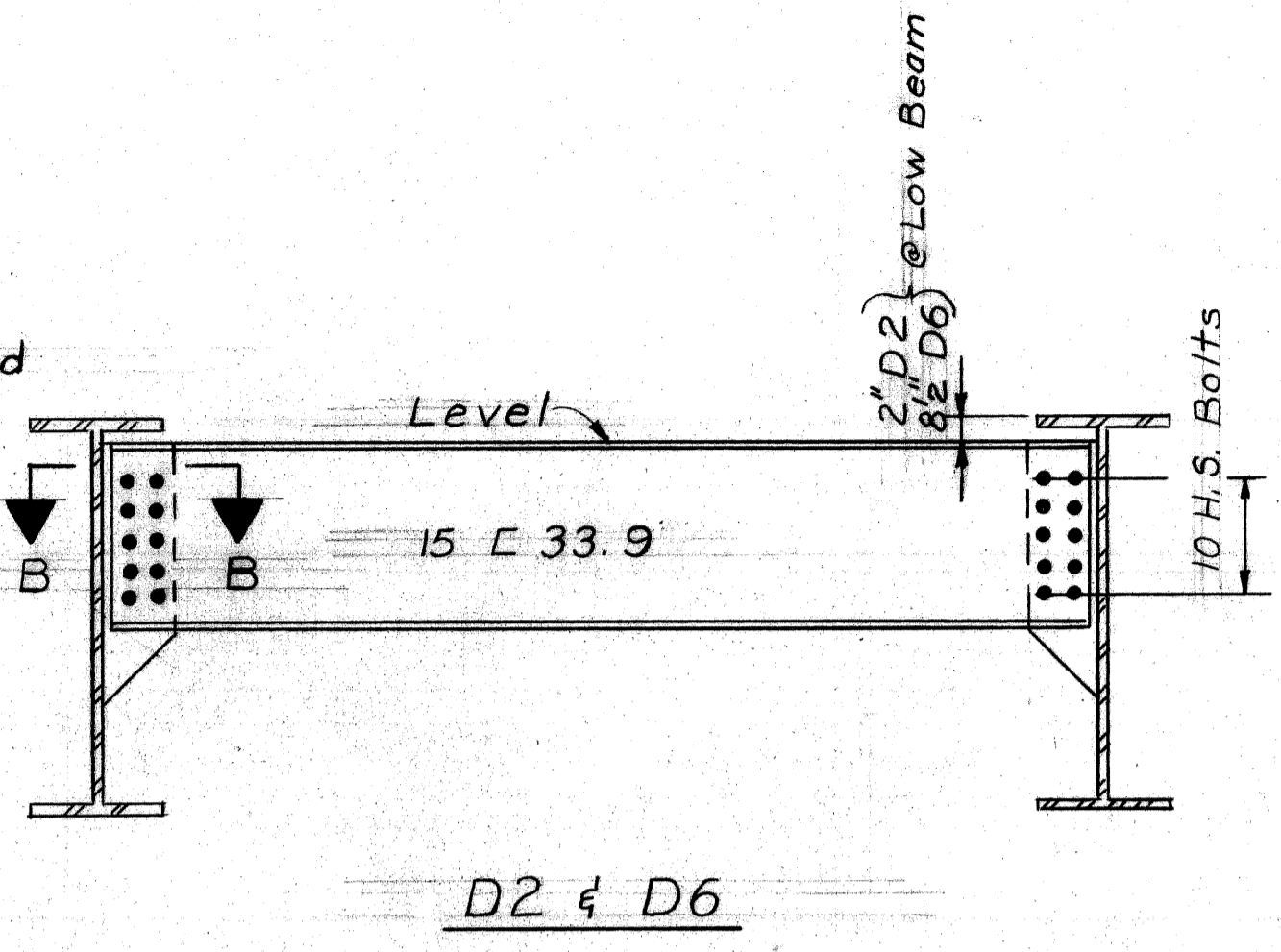
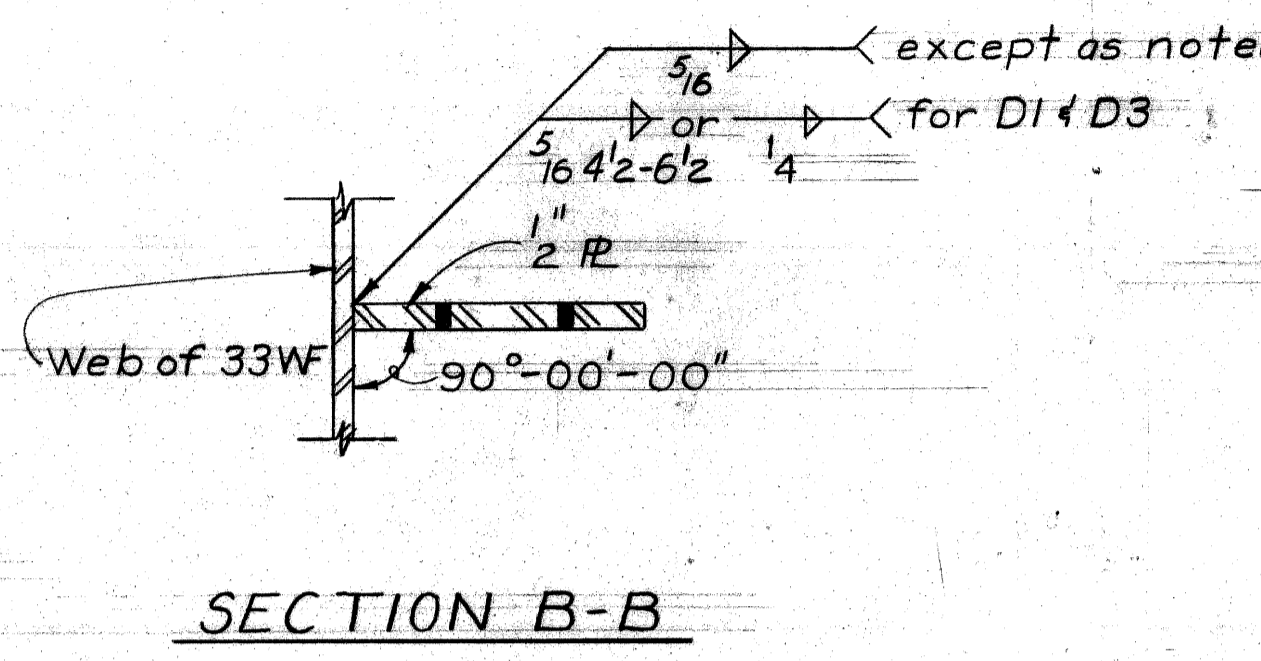
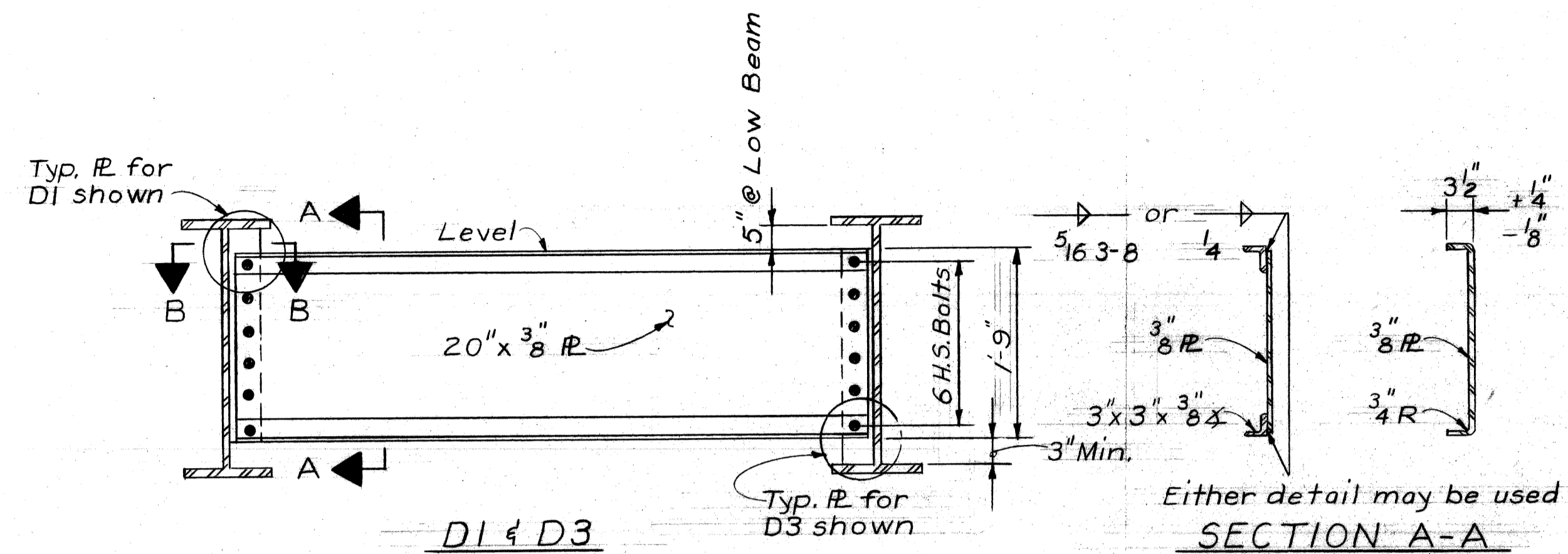
APPROVED *J. B. W.*
STRUCTURAL ENGINEER

REVISIONS			
NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT
SQUAD BOSS *Mr. Gunt* 8/79
DRAWN BY *E. Harris* 9/69
CHECKED BY *J. B. W.* 10/69
SHEET 16 OF 18

JOB No.
PW 990 (20)

PO1 of 82122J



Work sheets 15, 16 & 17 together.

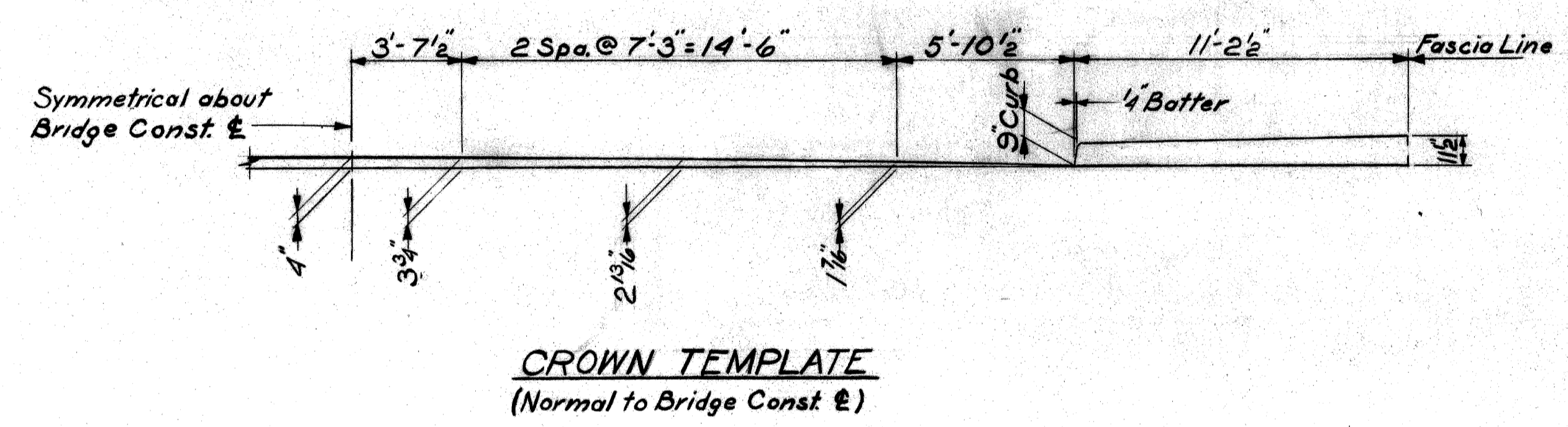
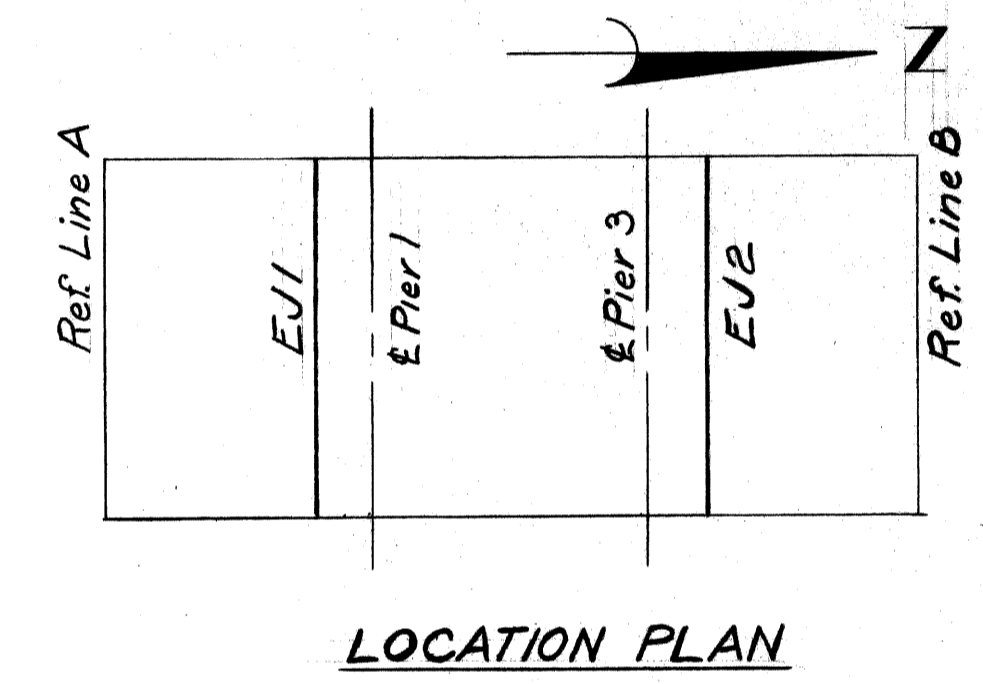
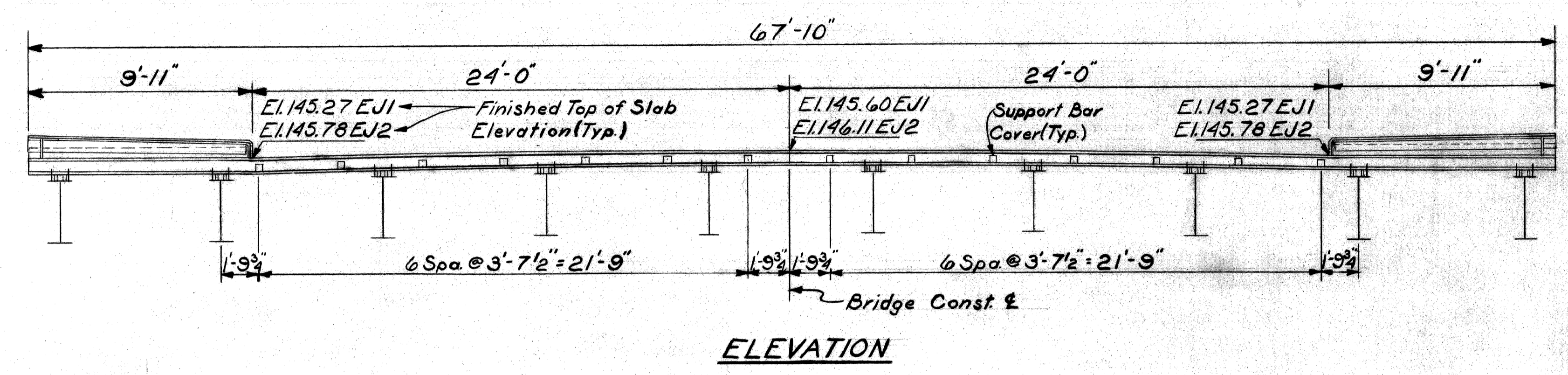
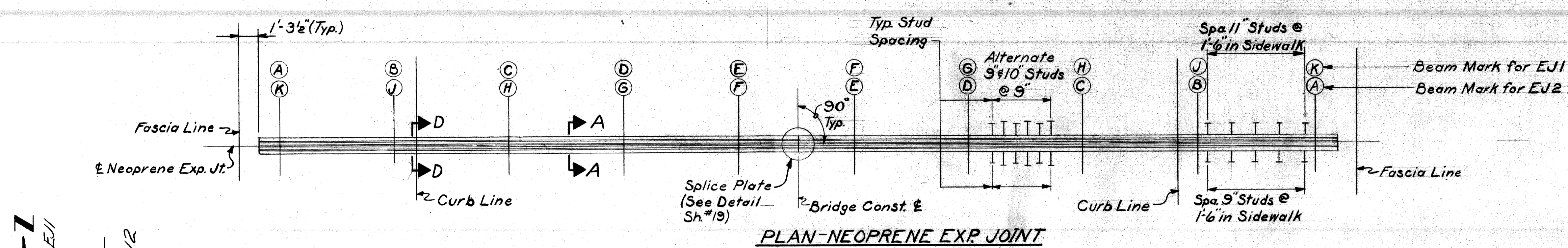
PLANS PREPARED BY
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS
 APPROVED: *[Signature]* STRUCTURAL ENGINEER
 JOB NO. 990 (20)

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 BURT ROAD OVER JEFFRIES FREEWAY
 IN DETROIT
STRUCTURAL STEEL DETAILS

NO.	DESCRIPTION	DATE	BY

REVISIONS

DESIGNED BY: *[Signature]* 8-70
 DRAWN BY: *[Signature]* 8-70
 CHECKED BY: *[Signature]* 7-70
 SHEET 17 OF 26
S22 of 82122J



NOTES
 The Neoprene Expansion Joint shall be prefabricated and assembled in the shop.
 The Neoprene Expansion Joint shall be bent in the shop to conform with the contour of the top of roadway slab.
 The steel in the Expansion Joint is included in the quantity "Double Neoprene Expansion Joint" - Lin. Ft.
 For details of Sealer, see Supplemental Specifications.
 Studs are to be attached as shown by welding according to the manufacturer's recommendations.

QUANTITY
 Double Neoprene Expansion Joint 136 Lin. Ft.

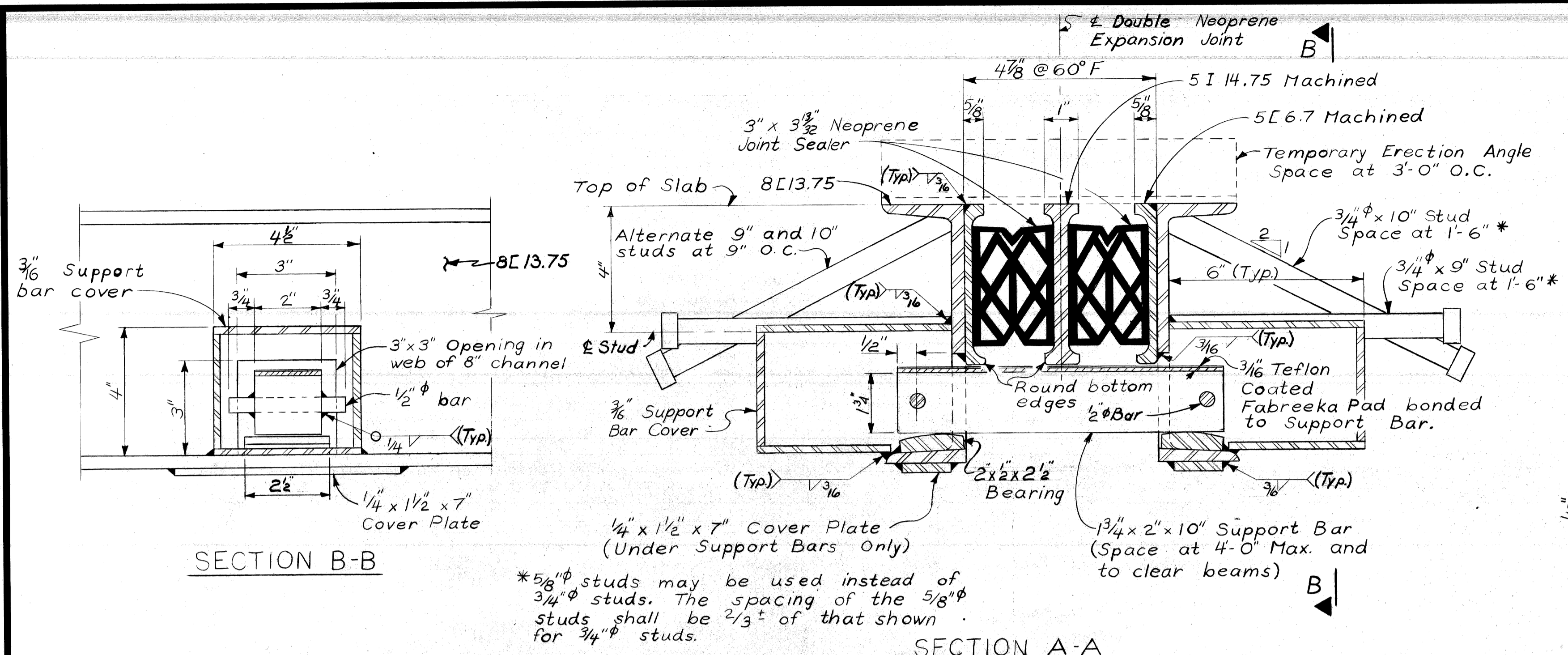
PLANS PREPARED BY
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS
 APPROVED: *H. Conrad*
 STRUCTURAL ENGINEER

JOB No.
 990(20)

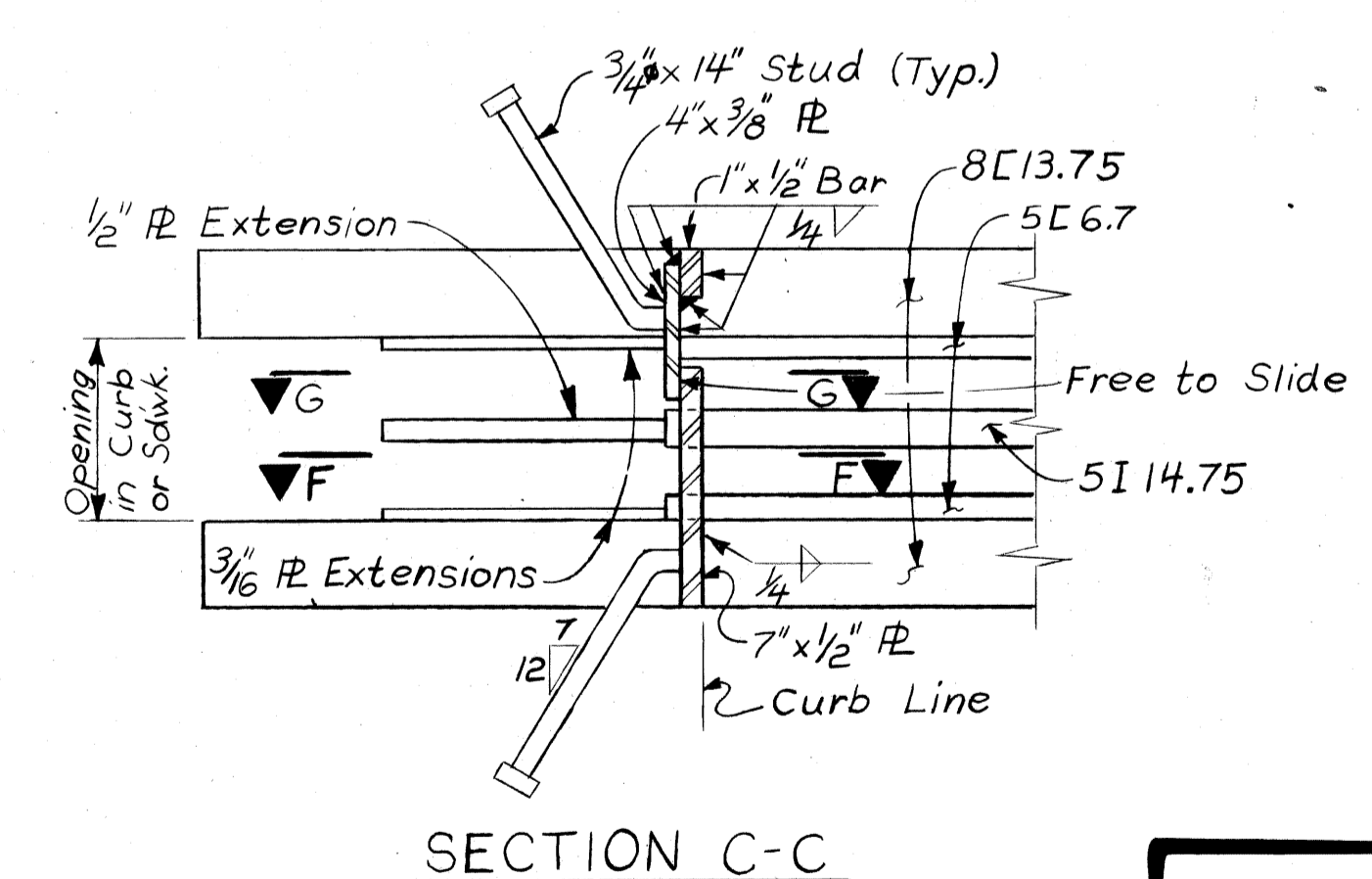
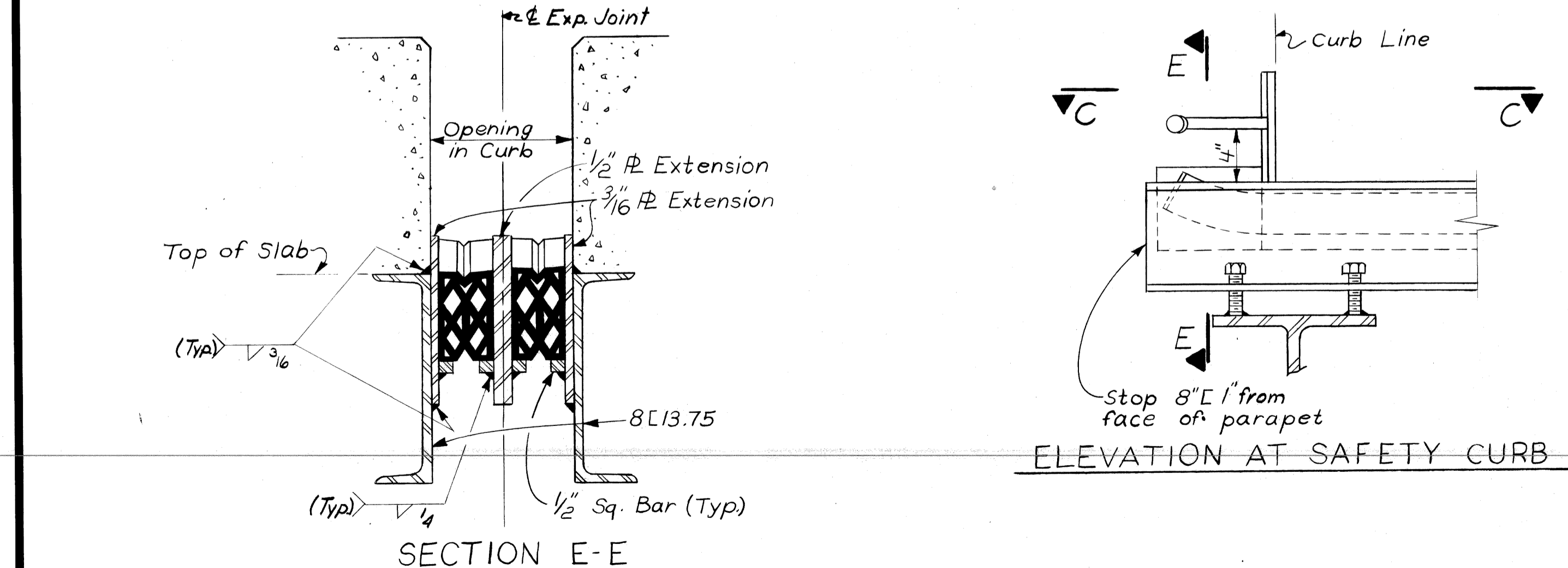
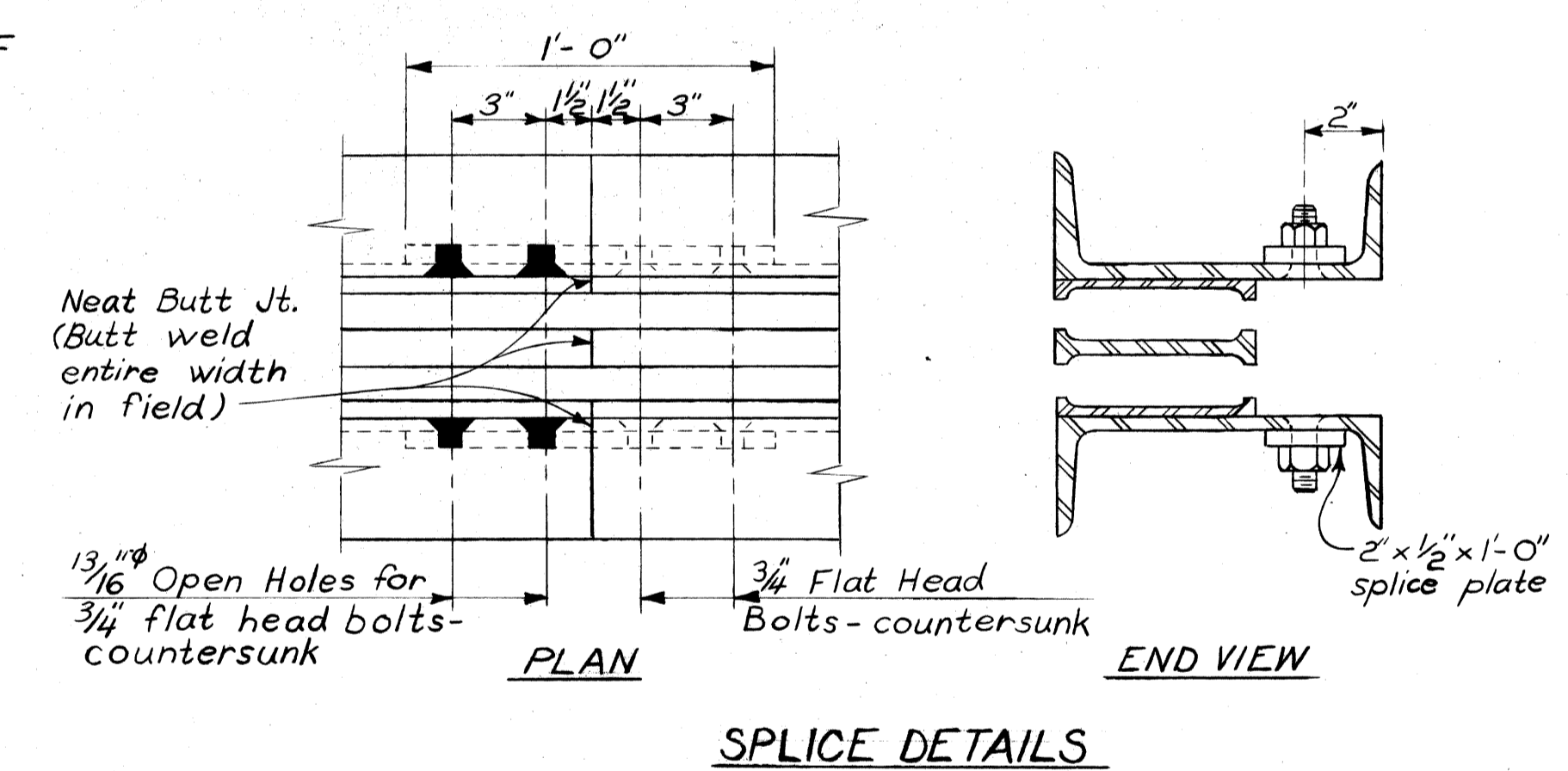
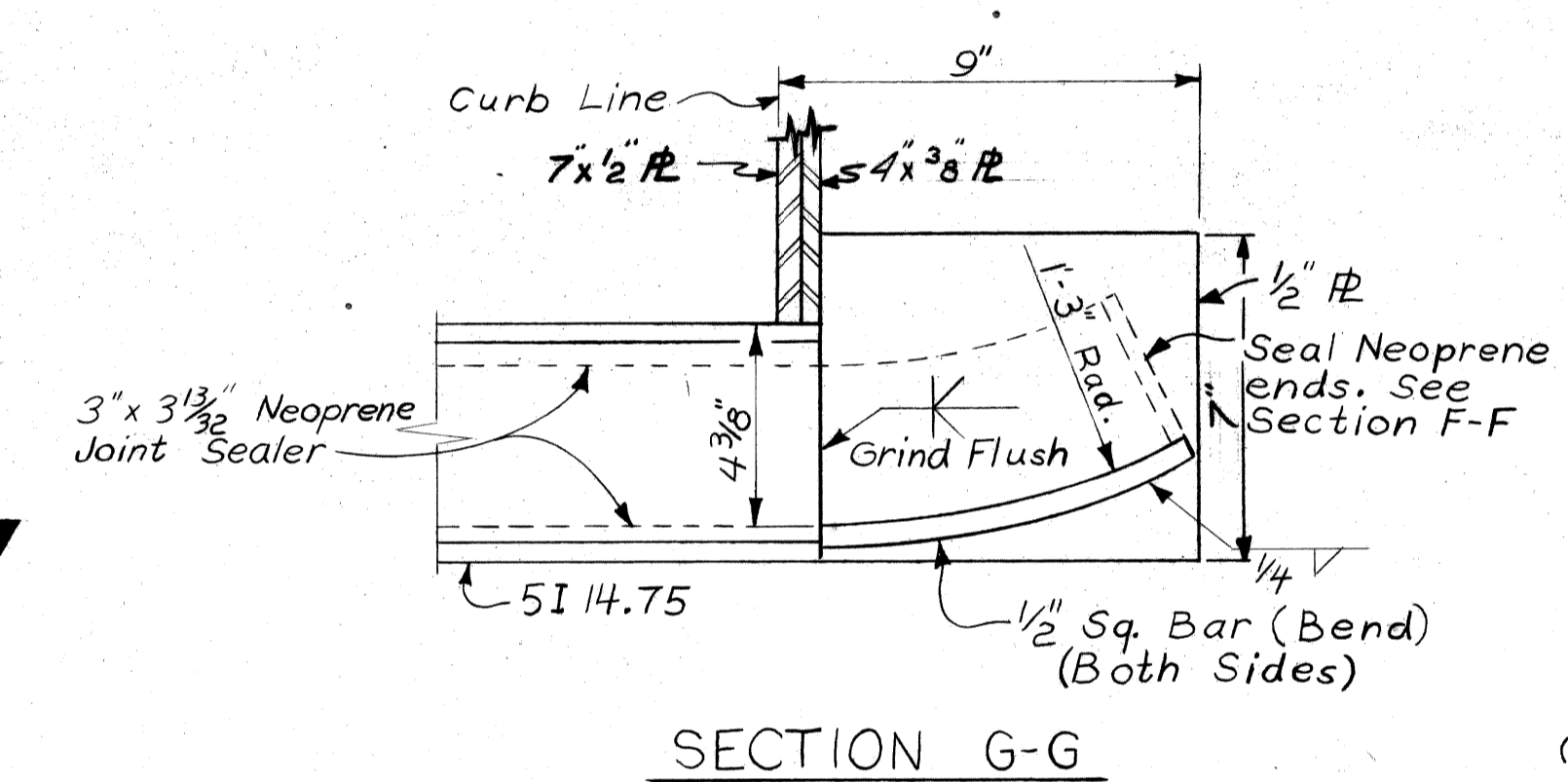
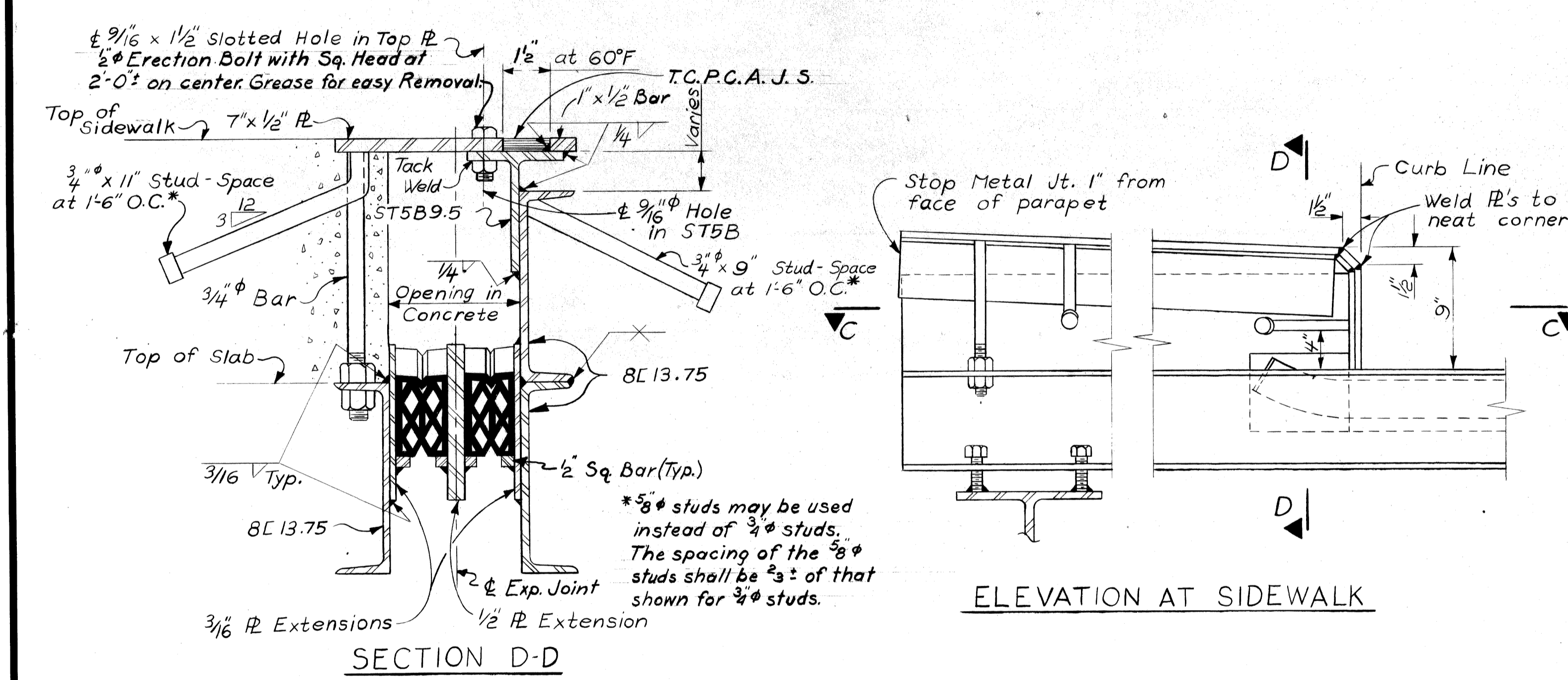
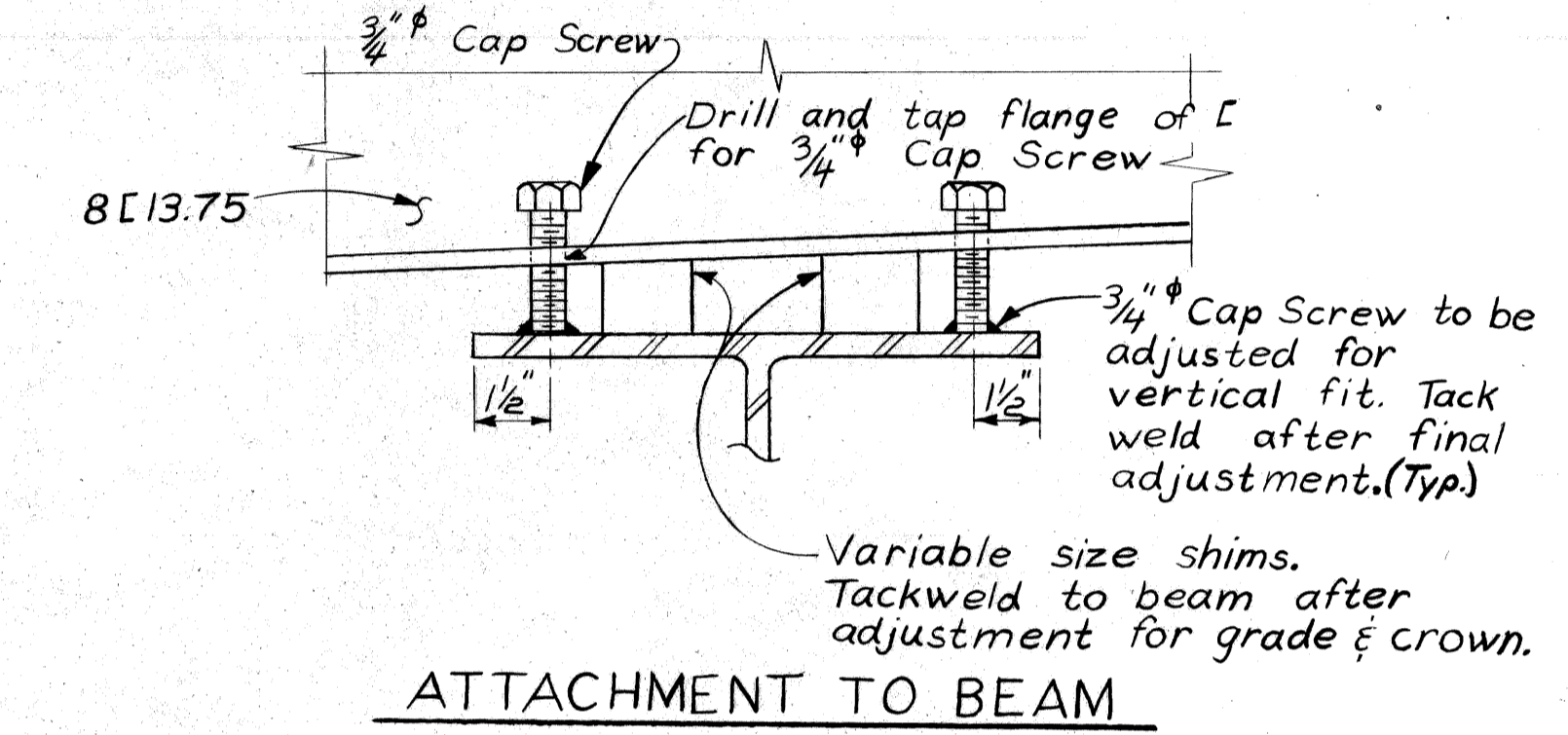
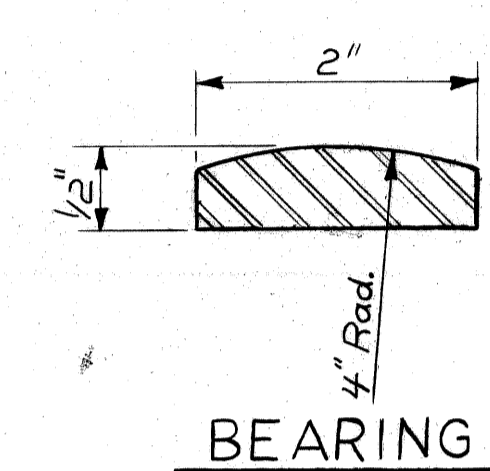
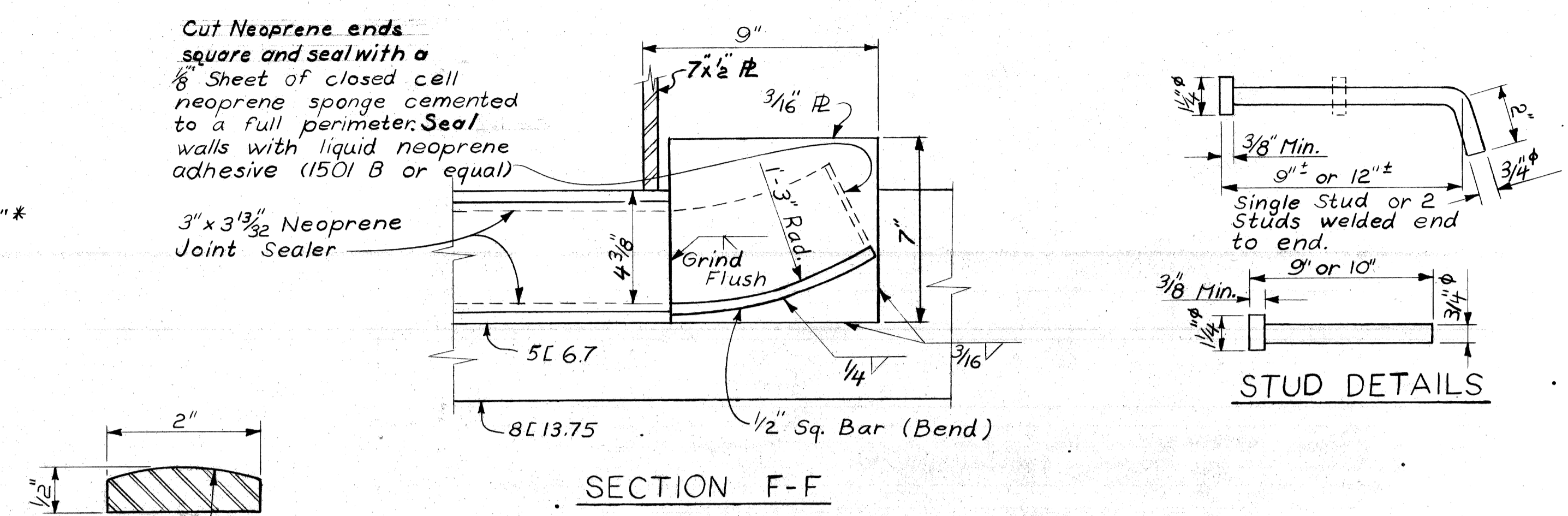
MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 BURT ROAD OVER JEFFRIES FREEWAY
 IN DETROIT
DOUBLE NEOPRENE EXPANSION JOINT DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

DRAWN BY: *WARREN* 8-70
 CHECKED BY: *COMLY* 8-70
 SHEET 13 OF 26
S22 of 82122J



Cut Neoprene ends square and seal with a 1/8" Sheet of closed cell neoprene sponge cemented to a full perimeter. Seal walls with liquid neoprene adhesive (1501 B or equal)



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

APPROVED: *H. Paul*
STRUCTURAL ENGINEER

JOB No.
990(20)

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

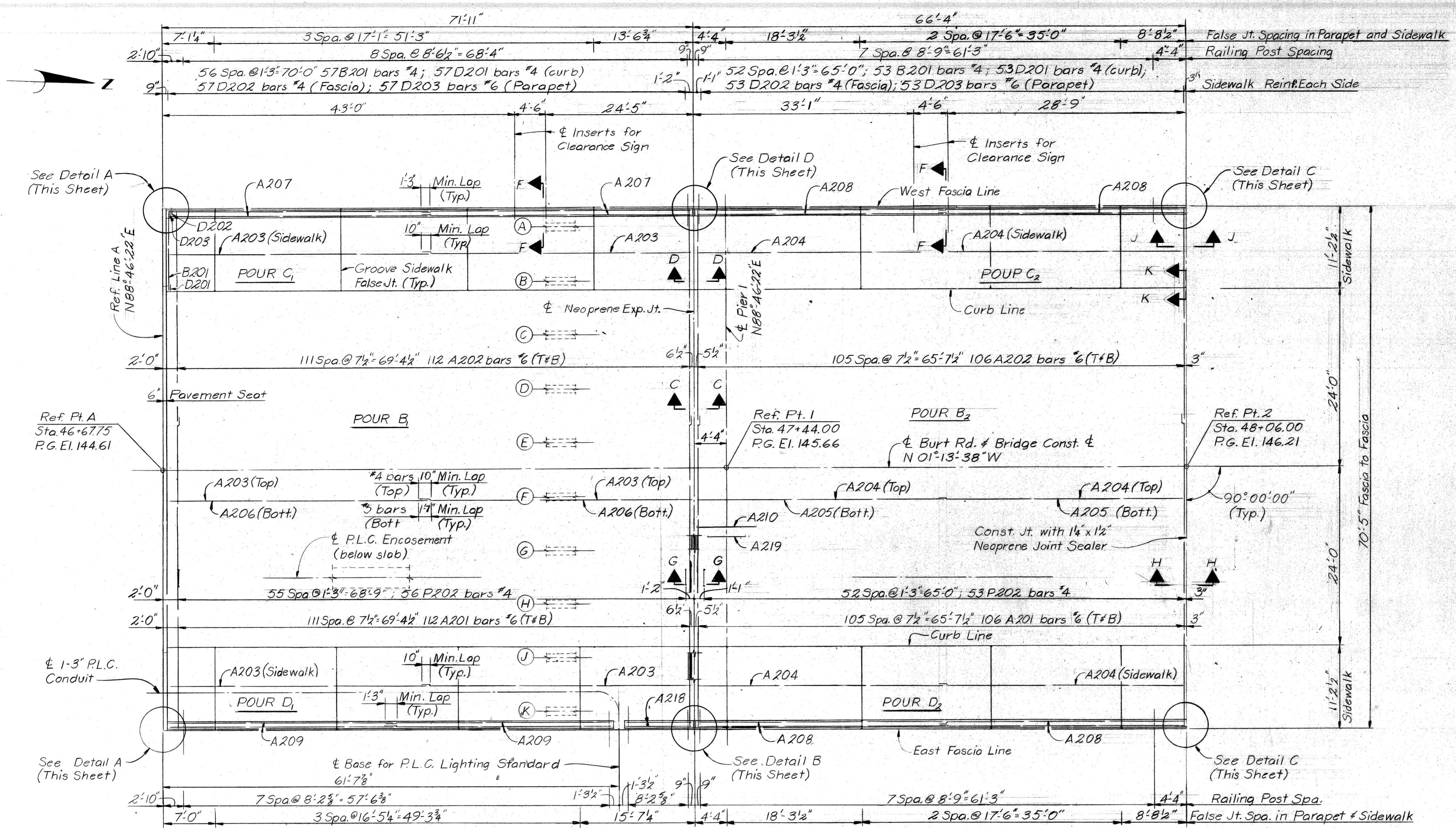
BURT ROAD OVER JEFFRIES FREEWAY
IN DETROIT

**DOUBLE NEOPRENE EXPANSION
JOINT DETAILS**

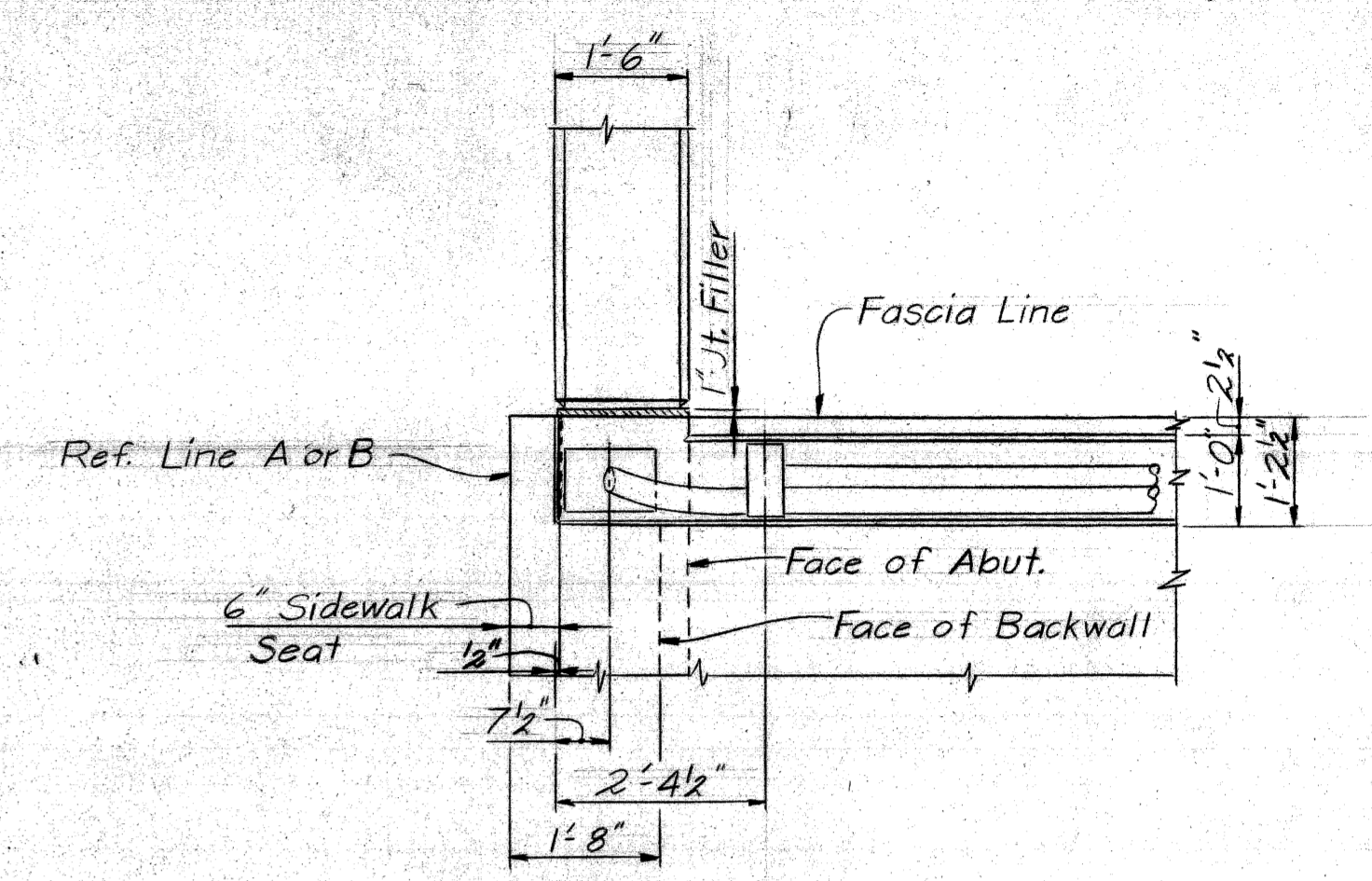
CITY OF DETROIT

ROAD BOSS	Stulen	8-70
DRAWN BY	Van Nostrand	4-16-70
CHECKED BY	Amy	6-70
SHEET	19	OF 26

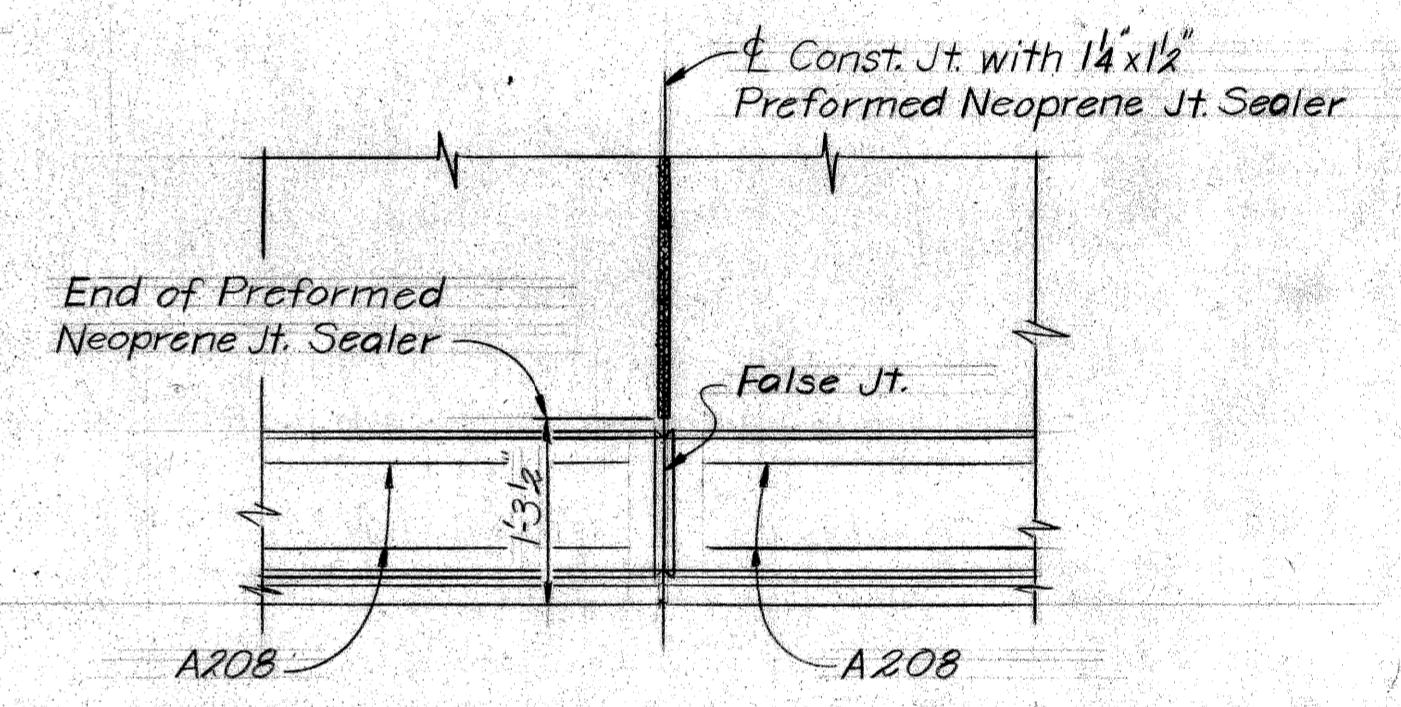
S22 of 82122J



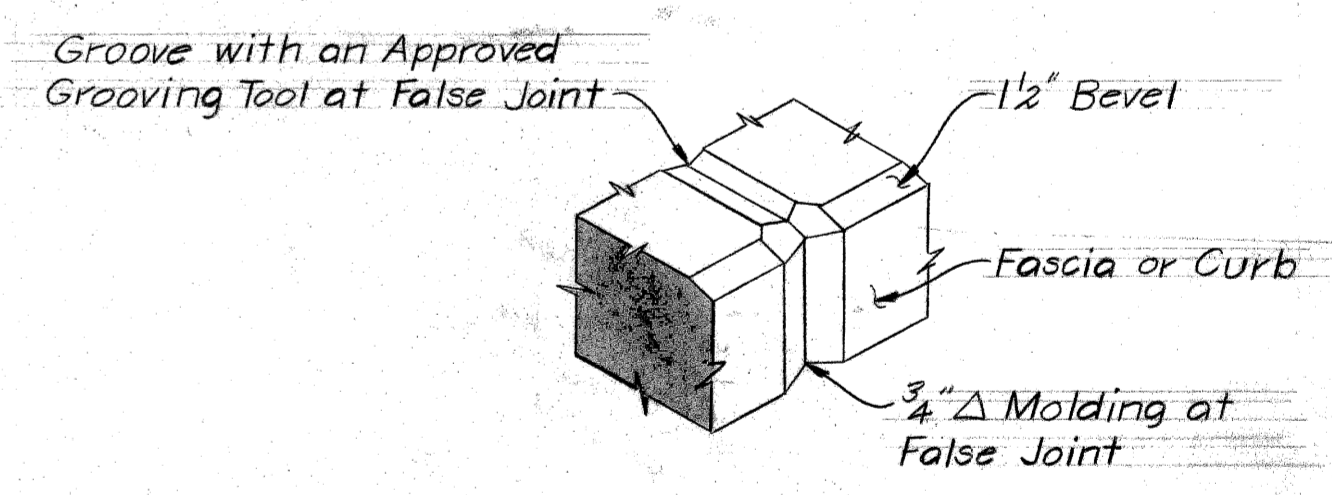
PLAN - SPANS 1 & 2



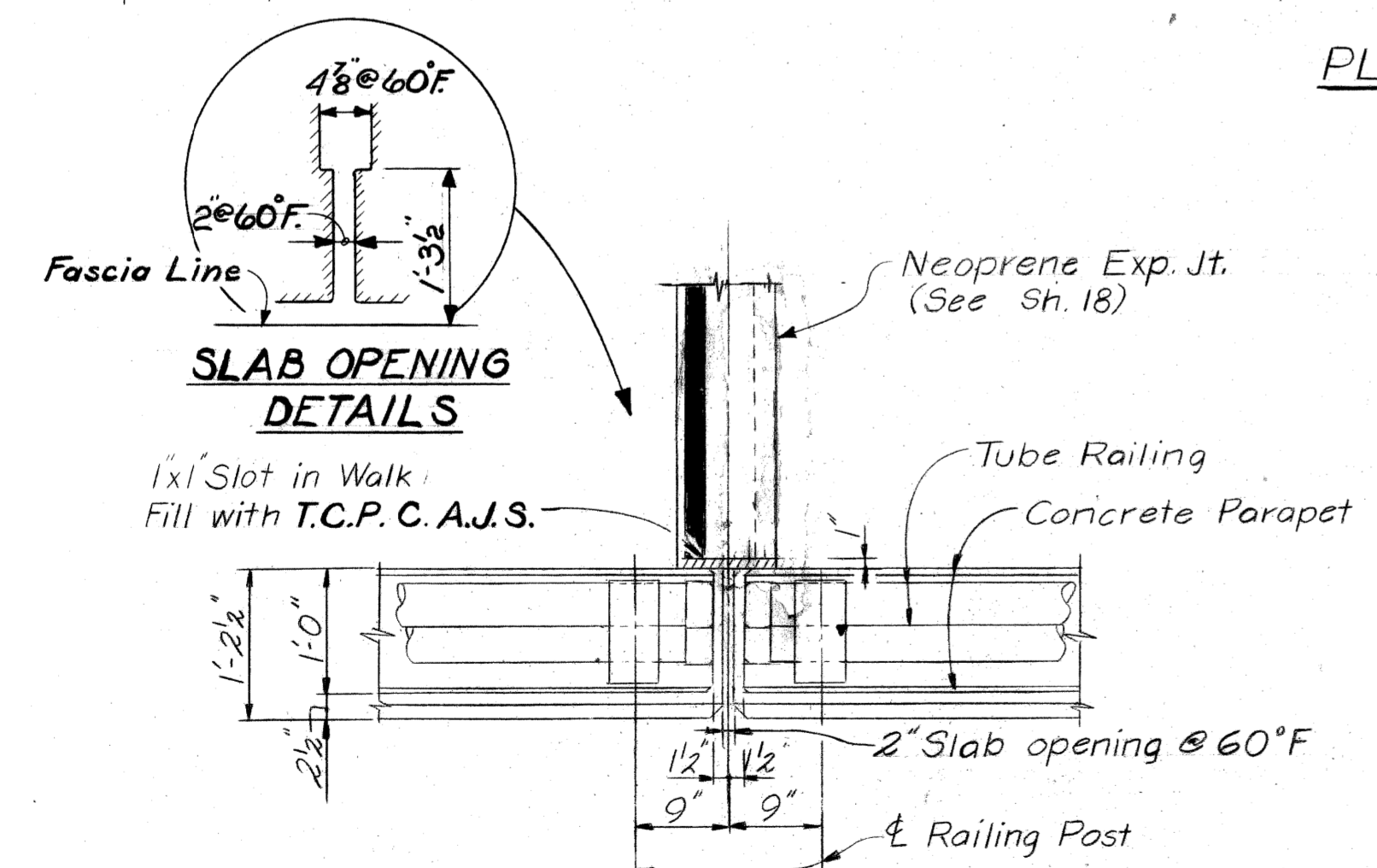
DETAIL-A
N.E. & S.W. corners shown
N.W. & S.E. corners similar



DETAIL-C

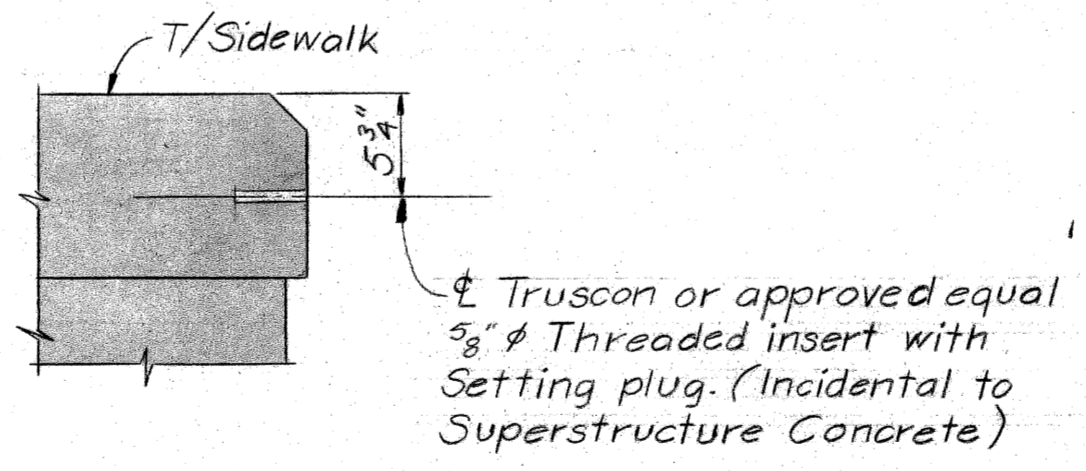


ISOMETRIC OF FALSE JOINT



SLAB OPENING DETAILS

DETAIL-B & D
Detail B shown
Detail D similar, opposite hand



SECTION F-F

Work sheets 20 thru 25 together

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

BURT ROAD OVER JEFFRIES FREEWAY IN DETROIT

SUPERSTRUCTURE DETAILS

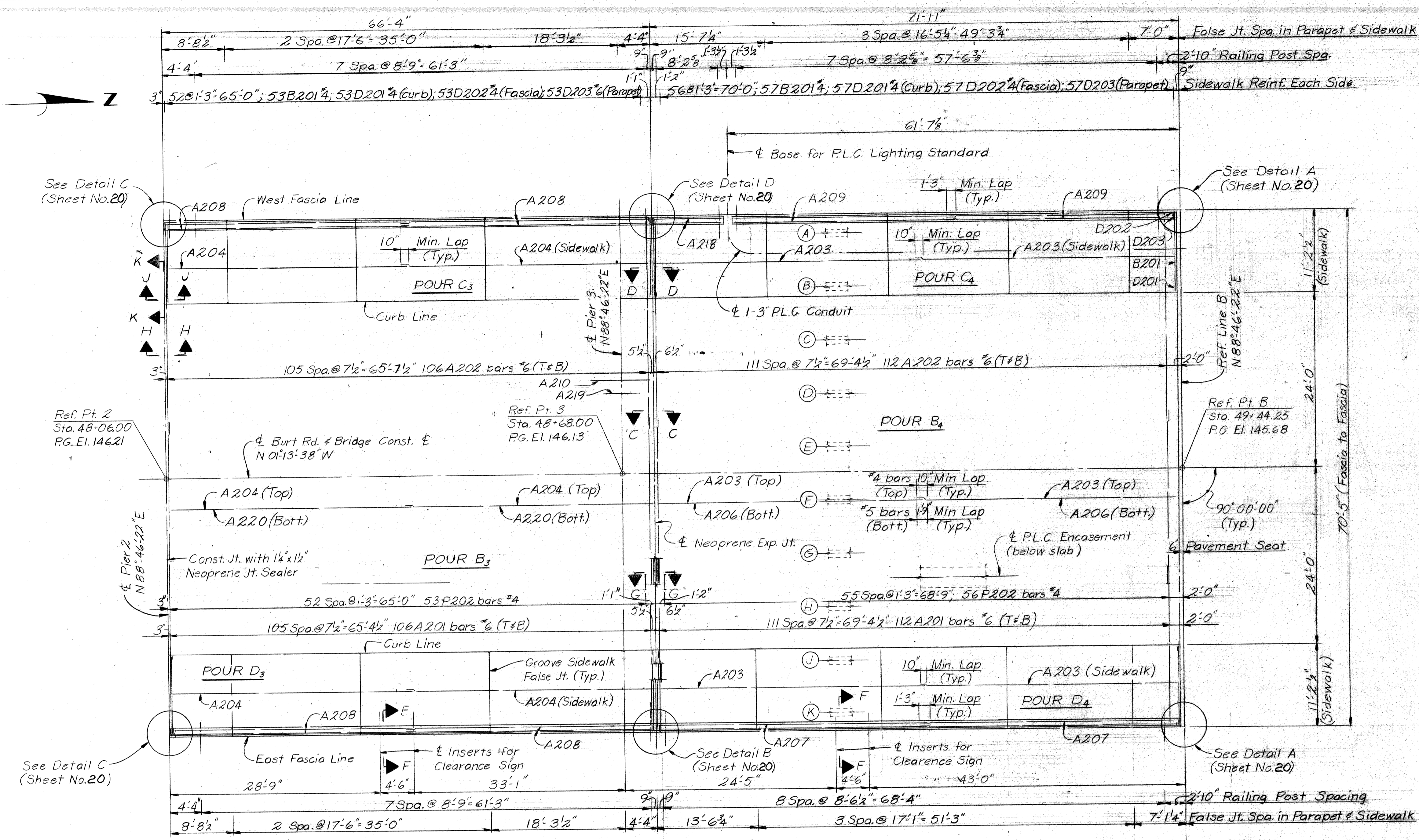
PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

JOB No.
990(20)

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD	DATE	BY
SPRIM	4-70	
TRACED BY	L.G.	4-70
CHECKED BY		5-70
SHEET 20 OF 26		

S22 of 82122J

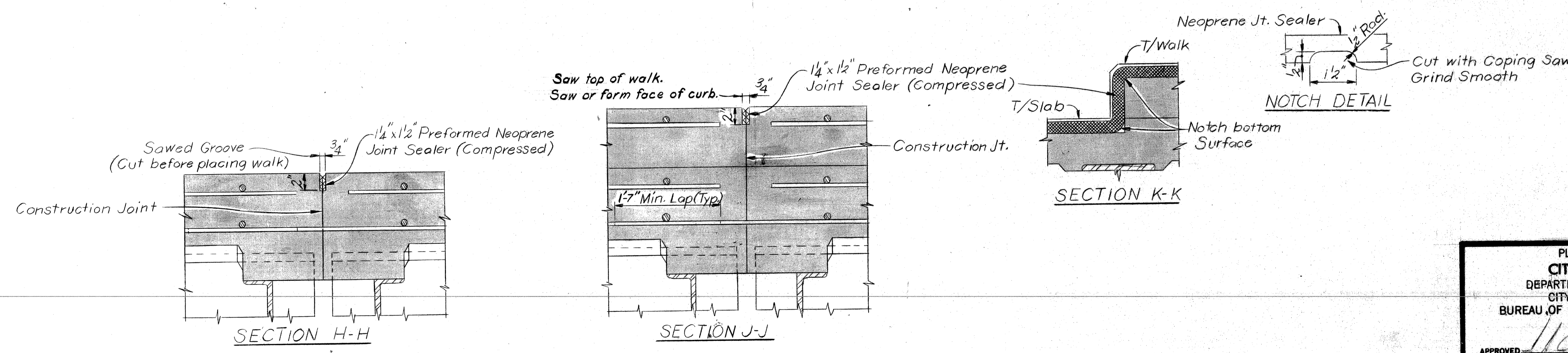


MISCELLANEOUS QUANTITIES		
Item	Unit	Amount
Water-Reducing Retarding Admixture	Gal.	75
Low Temp. Protection Superstructure Concrete	Cu. Yds.	751
Protective Treatment for Bridge Decks	Sq. Ft.	19200
1/4" Preformed Neoprene Joint Sealer	Lin. Ft.	69
Two-Component Polyurethane Cold-Applied Joint Sealer	Lin. Ft.	46
Joint Waterproofing	Sq. Ft.	211
Bridge Railing - Solid Parapet Type	Lin. Ft.	540
3" Conduits	Lin. Ft.	130
4" Conduits	Lin. Ft.	1632

CONCRETE QUANTITIES (Cu. Yds.)						
Pour	Location	Grade	Span 1	Span 2	Span 3	Span 4
A	P.L.C. Encasements	*	7.6	7.2	7.2	7.6
B	Deck Slab	A(6AA)	143.1	120.2	120.2	143.1
C	Sidewalk	A(6AA)	23.3	23.5	23.5	23.3
D	Sidewalk	A(6AA)	23.3	23.5	23.5	23.3
Total Structural Lightweight Concrete			29.6			
Total Concrete Grade A(6AA) - Superstructure			721.8			

Note:
Parapet Concrete = 43.5 Cu. Yds. A(6AA) Part of Bridge Railing - Solid Parapet Type and not a pay item.
* Pour A, P.L.C. Encasement shall be Structural Lightweight Concrete - See Supplemental Specifications

- GENERAL NOTES:**
- J.W.P. denotes Joint Waterproofing.
 - T.C.P.C.A.J.S. denotes Two-Component Polyurethane Cold-Applied Jt. Sealer.
 - Bridge railing is to be aluminum tubular railing on solid concrete parapet. For details of bevels, moldings, and Bridge Railings see Std. Sheet R16.
 - Edge or groove denotes edging or grooving with an approved tool.
 - Alphabetical designation of pours is not to be construed as a pour sequence.
 - Sidewalk pours shall not be cast until slab concrete has attained at least 50% of its design strength as determined by Table 7.01.05 of the Standard Specifications.
 - The contractor is to provide a sawed joint 1/2" deep by 1/2" wide (min) in the top of slab over and parallel to the centerline of piers. The joint is to be sawed before casting of sidewalks and is to be filled with T.C.P.C.A.J.S. (incidental).
 - Protective Treatment for Bridge Decks is to be applied to all superstructure concrete surfaces between inside faces of parapets.
 - For Name Plate location and mounting details see Std. Sheet R16.
 - Pour Suspended Spans before Anchor Spans.



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

APPROVED: [Signature] STRUCTURAL ENGINEER

JOB No. 990(20)

Work sheets 20 thru 25 together

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
BURT ROAD OVER JEFFRIES FREEWAY IN DETROIT

SUPERSTRUCTURE DETAILS

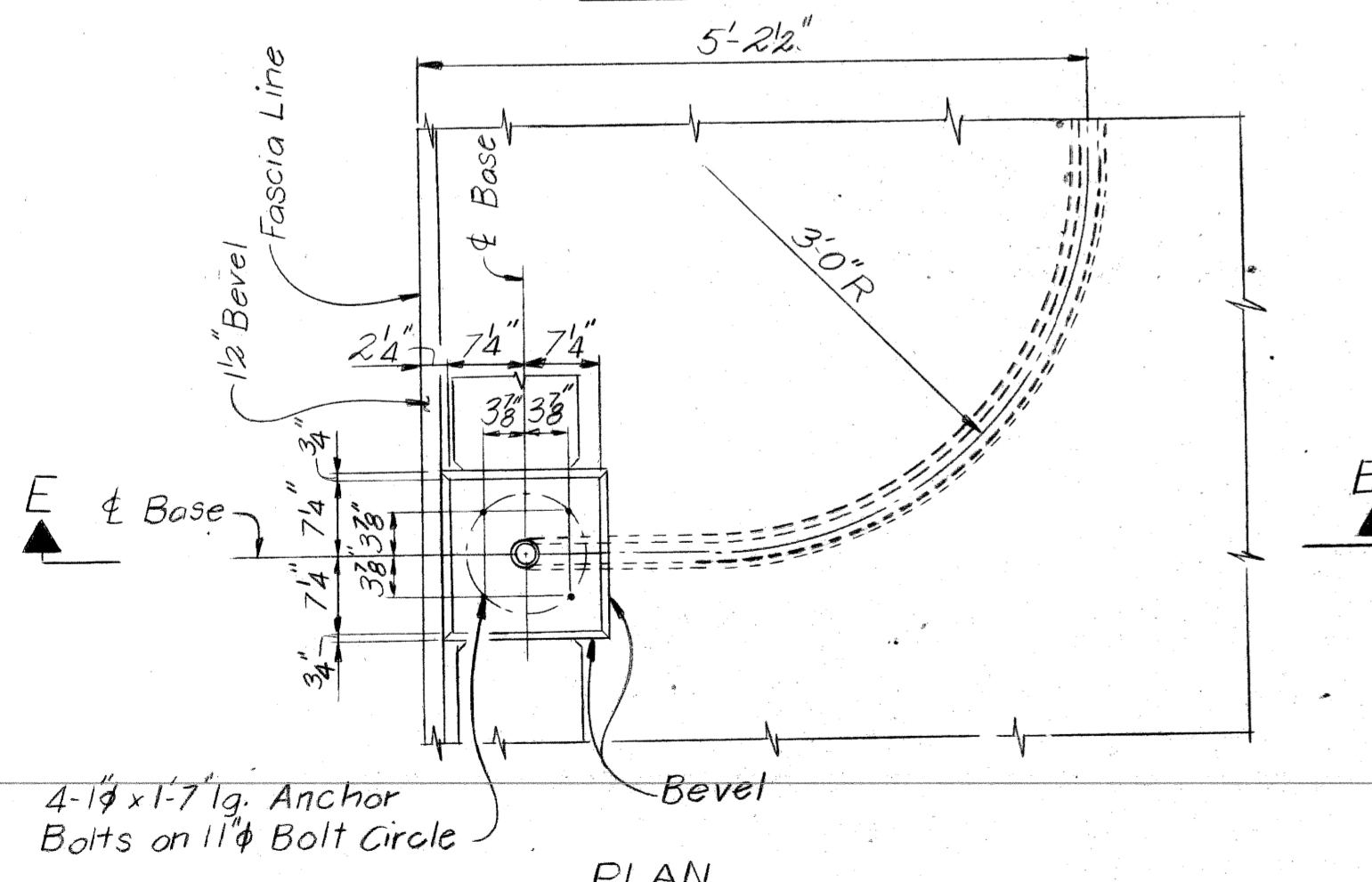
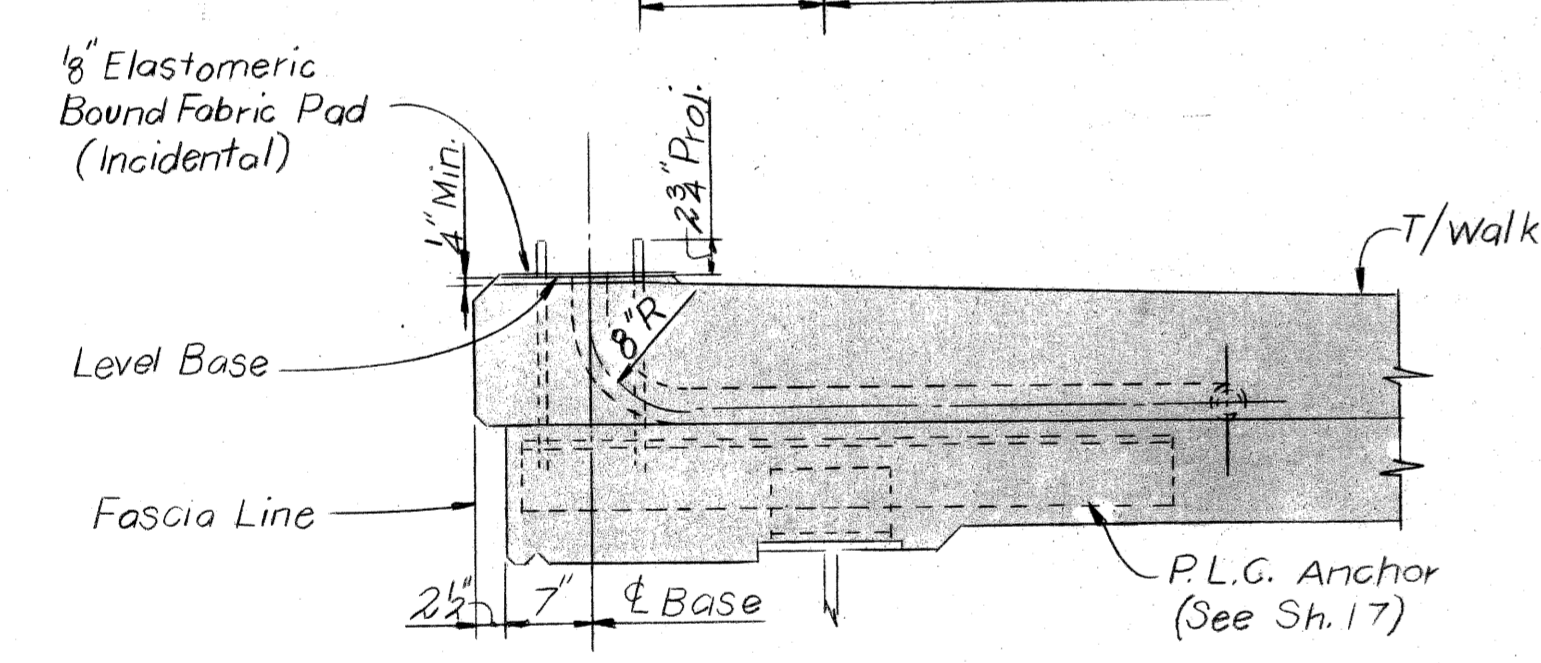
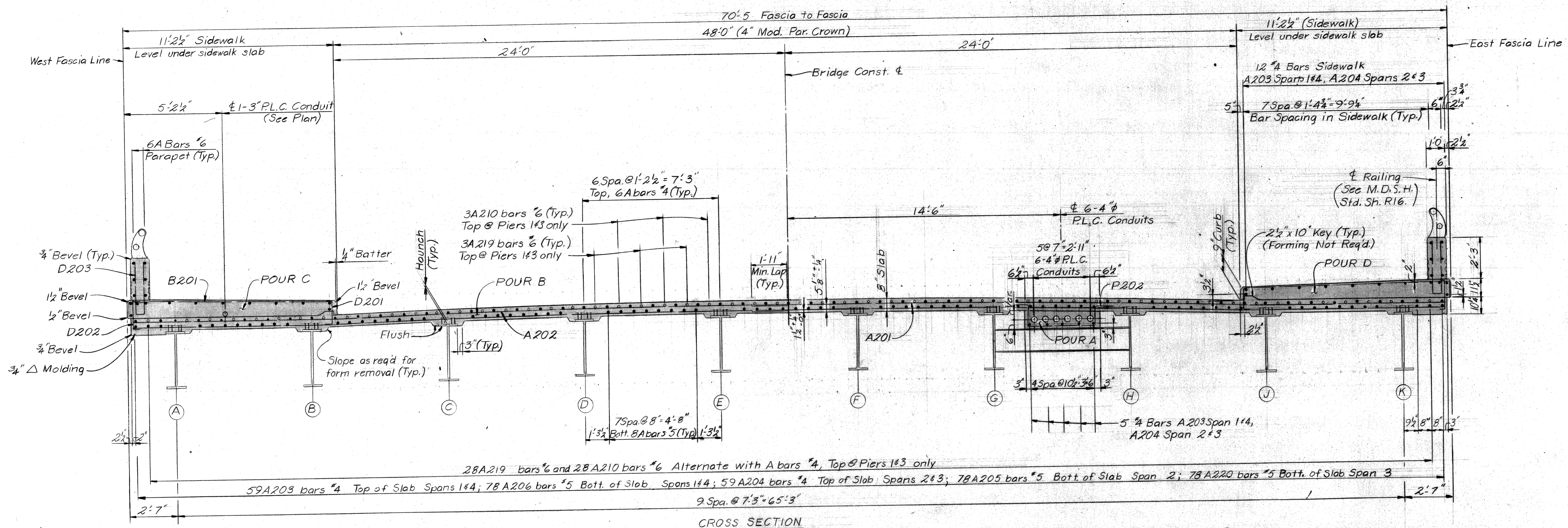
CITY OF DETROIT

NO.	DESCRIPTION	DATE	BY

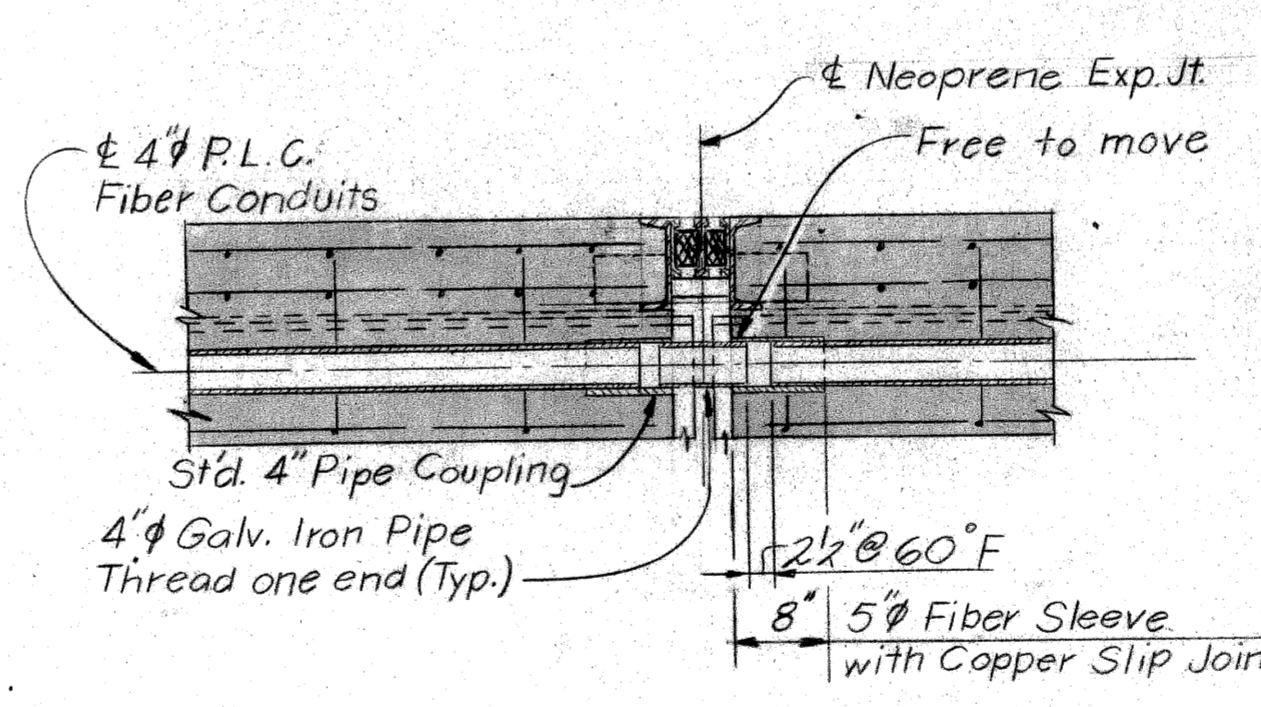
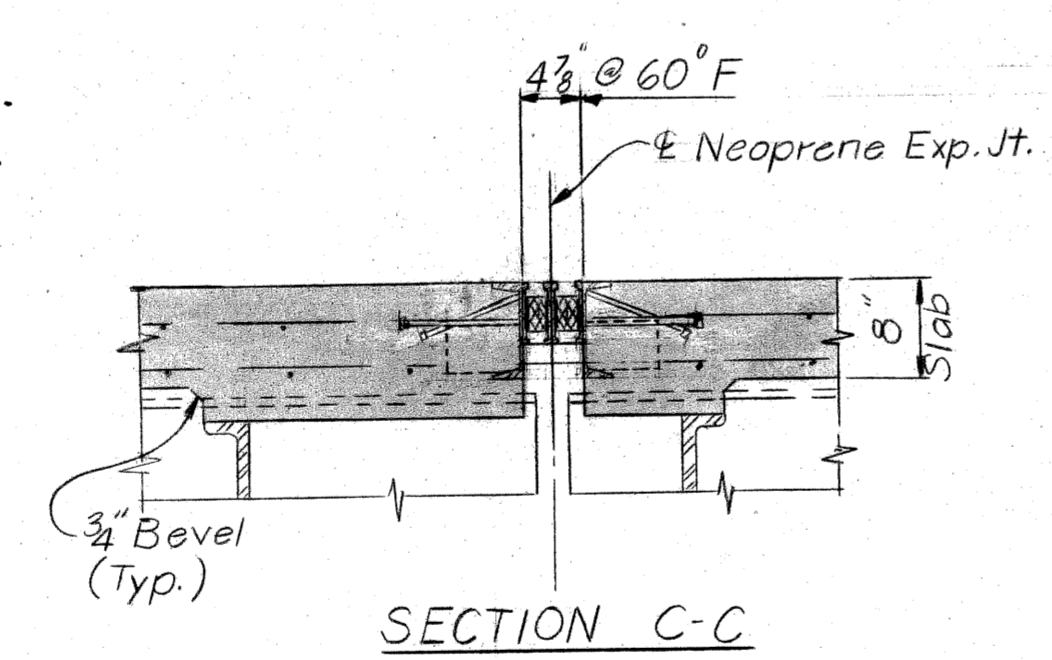
REVISIONS

SQUAD BOSS: [Signature] 8-70
DRAWN BY: L.G. 4-70
TRACED BY: [Signature] 5-70
CHECKED BY: [Signature] 5-70
SHEET 21 OF 26

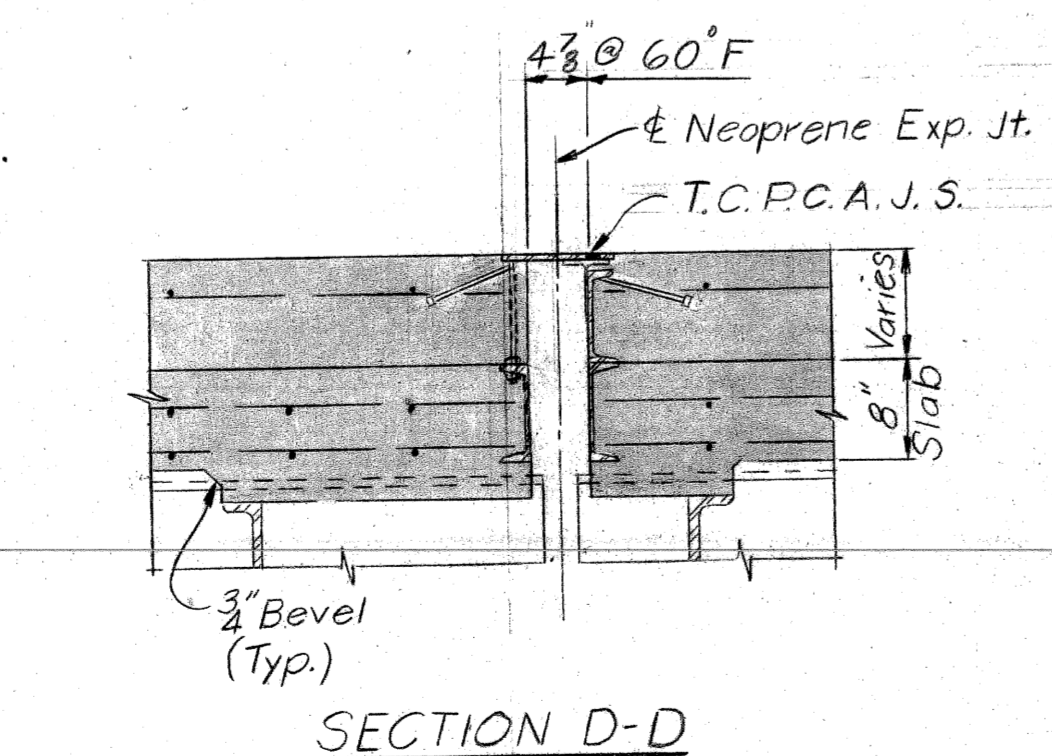
S22 of 82122J



DETAILS OF BASE FOR P.L.C. LIGHT STANDARD



P.L.C. CONDUITS BELOW SLAB AT METAL EXP. JT.



Note:
Fiber Sleeves, Copper Slip Joints, G.I. Pipe, & pipe couplings are incidental to conduits.

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

APPROVED: [Signature]
STRUCTURAL ENGINEER

JOB No.
990(20)

Work sheets 20 thru 25 together

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
BURT ROAD OVER JEFFRIES FREEWAY IN DETROIT

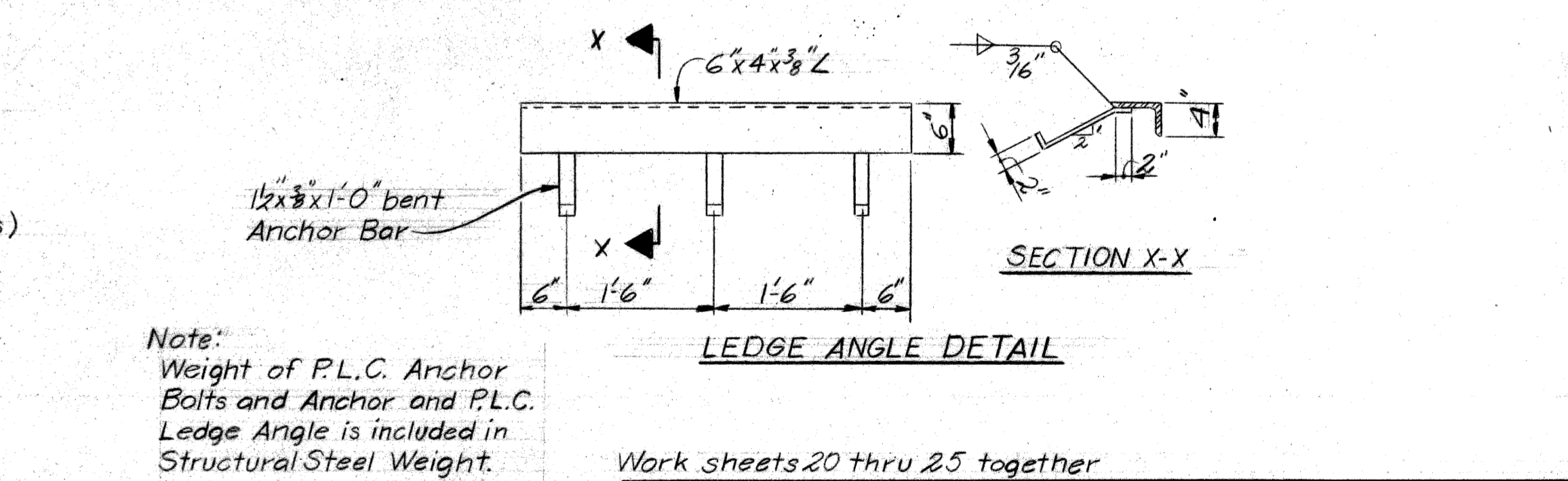
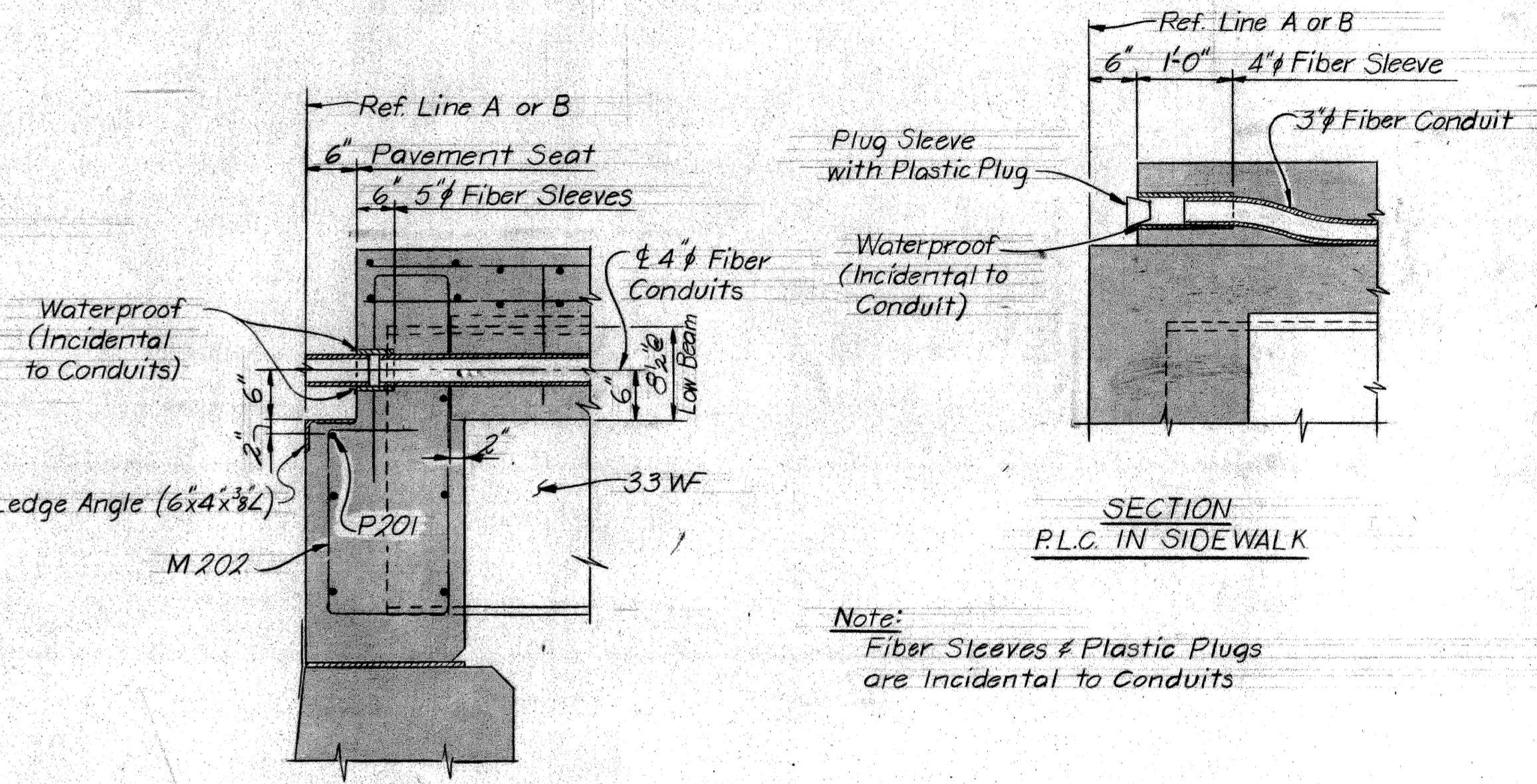
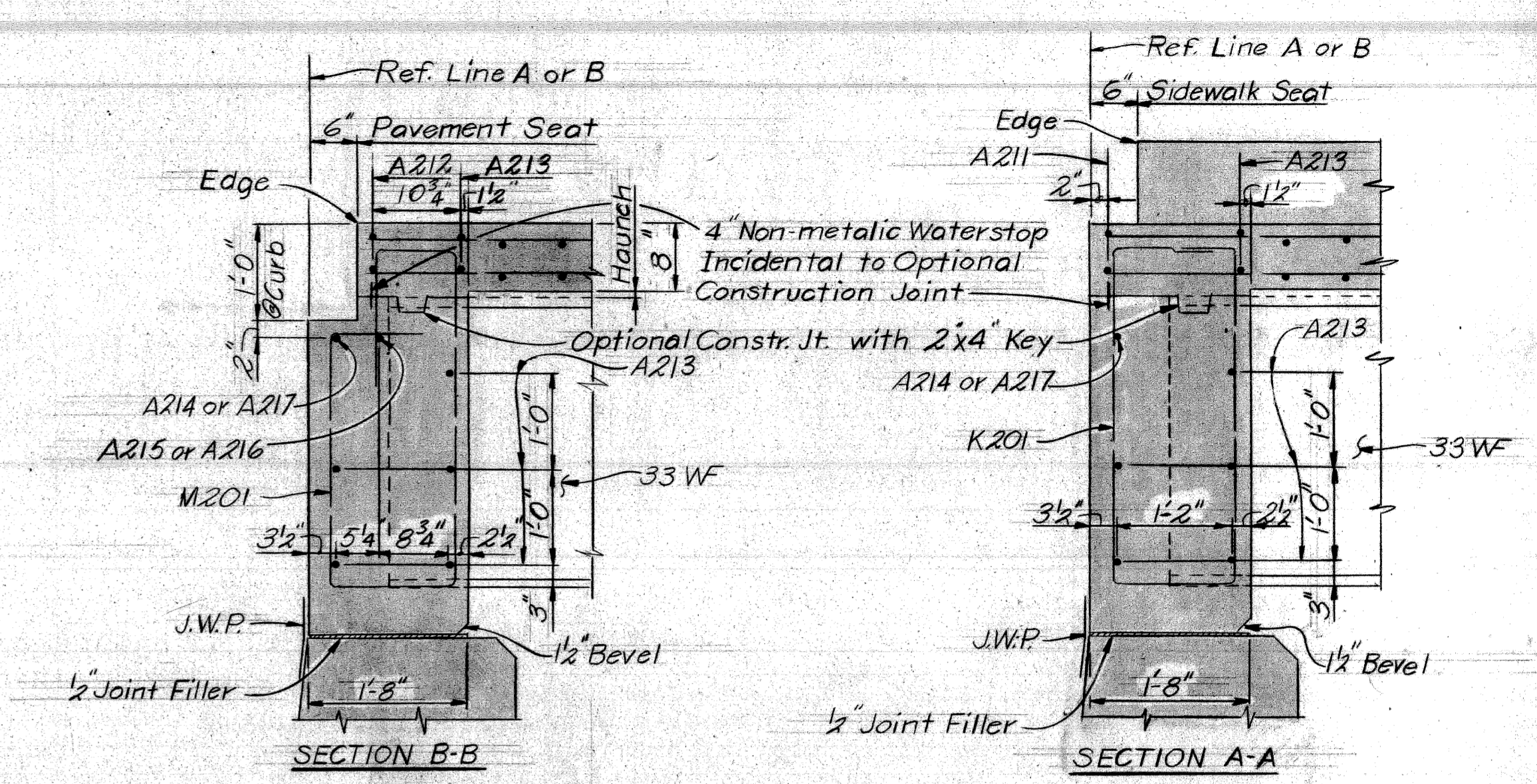
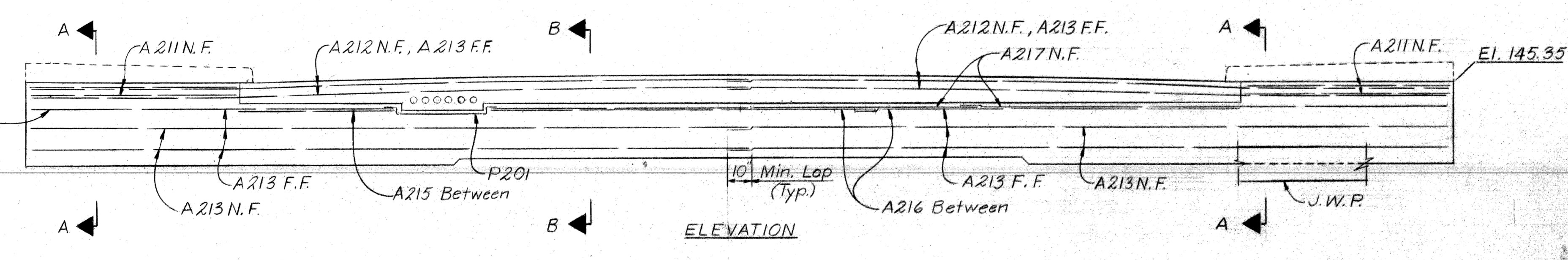
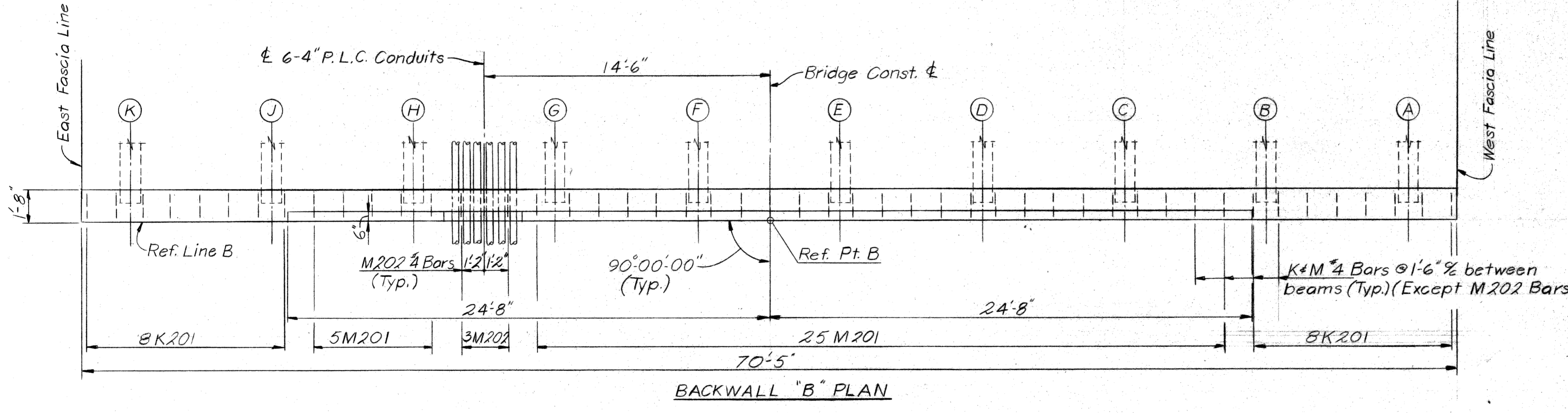
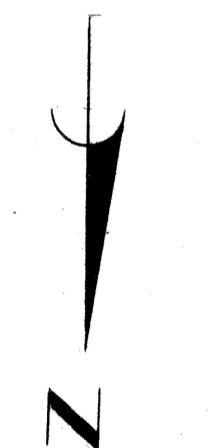
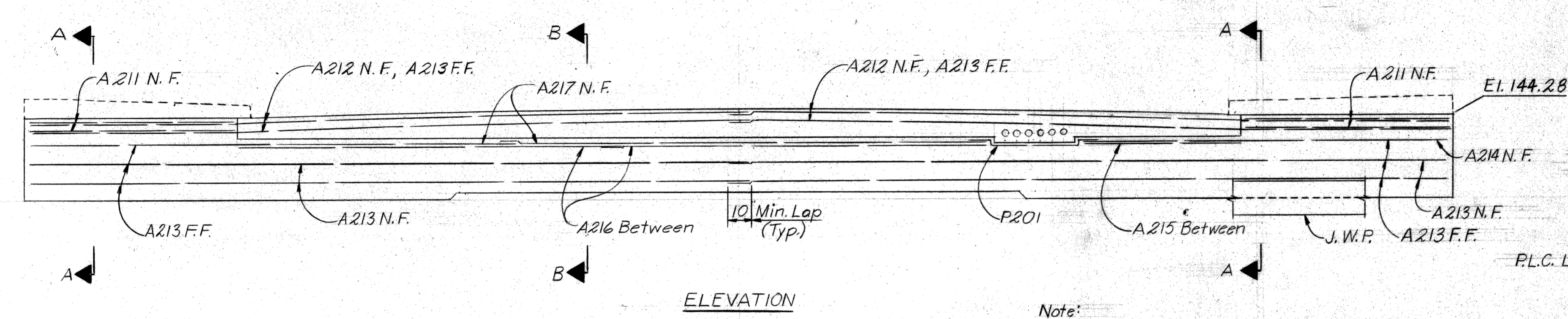
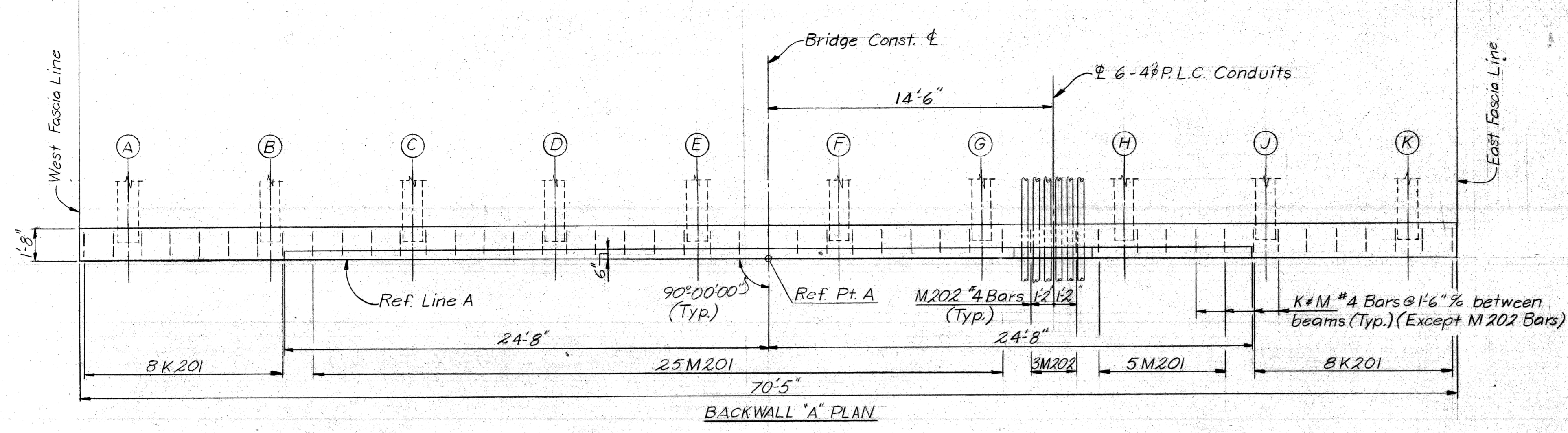
SUPERSTRUCTURE DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT

SQUAD BOSS	L. Spurn	8-70
DRAWN BY	L.G.	4-70
TRACED BY		
CHECKED BY		
SHEET	22	OF 26

S22 of 82122J



Work sheets 20 thru 25 together

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
BURT ROAD OVER 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. 990(20)

NO.	DESCRIPTION	DATE	BY

REVISIONS

CITY OF DETROIT
DRAWN BY: [Signature] 8-70
TRACED BY: [Signature] 4-70
CHECKED BY: [Signature] 5-70
SHEET 23 OF 20

S22 of 82122J

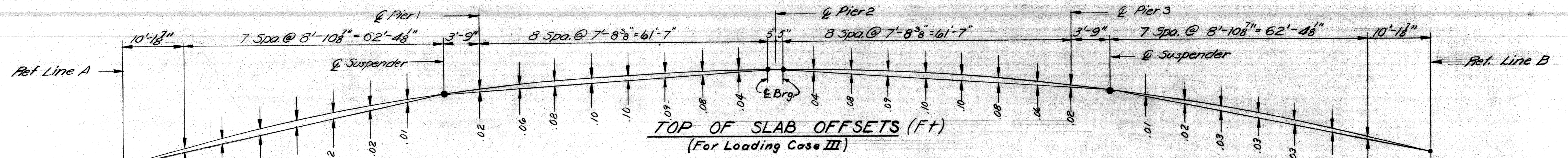
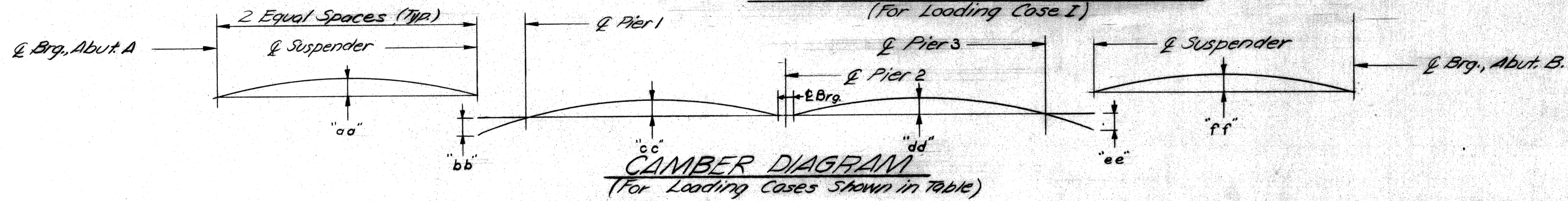


Diagram showing BOTTOM OF SLAB ELEVATIONS (For Loading Case I) with a grid of elevations from Ref. Line A to Ref. Line B and grid lines A through K.

Grid	1'-3"	76'-3" Span 1	3'-9"	62'-0" Span 2	5'-5"	62'-0" Span 3	3'-9"	76'-3" Span 4	1'-3"																												
A	143.63	143.82	144.02	144.19	144.33	144.44	144.51	144.56	144.59	144.66	144.80	144.93	145.04	145.12	145.18	145.21	145.22	145.22	145.22	145.29	145.33	145.36	145.36	145.33	145.28	145.22	145.14	145.10	145.14	145.16	145.16	145.12	145.06	144.95	144.83	144.69	
B	143.63	143.81	144.01	144.17	144.31	144.42	144.50	144.55	144.59	144.66	144.80	144.94	145.05	145.13	145.19	145.22	145.23	145.22	145.22	145.29	145.34	145.37	145.36	145.32	145.35	145.29	145.22	145.14	145.10	145.13	145.15	145.14	145.11	145.04	144.94	144.82	144.69
C	143.74	143.91	144.10	144.26	144.39	144.50	144.59	144.65	144.71	144.77	144.91	145.03	145.14	145.22	145.28	145.32	145.33	145.33	145.39	145.44	145.47	145.46	145.42	145.44	145.39	145.33	145.25	145.21	145.23	145.24	145.23	145.19	145.12	145.03	144.94	144.80	
D	143.86	144.03	144.21	144.37	144.51	144.62	144.70	144.77	144.82	144.89	145.02	145.15	145.26	145.34	145.42	145.48	145.43	145.45	145.44	145.51	145.56	145.58	145.58	145.56	145.51	145.44	145.36	145.32	145.33	145.35	145.35	145.34	145.30	145.24	145.15	145.04	144.92
E	143.94	144.11	144.29	144.45	144.59	144.70	144.79	144.85	144.90	144.97	145.11	145.23	145.34	145.42	145.48	145.52	145.53	145.53	145.53	145.59	145.64	145.66	145.66	145.64	145.59	145.52	145.44	145.36	145.32	145.33	145.35	145.34	145.32	145.28	145.23	145.12	145.00
F	143.94	144.11	144.29	144.45	144.59	144.70	144.79	144.85	144.90	144.97	145.11	145.23	145.34	145.42	145.48	145.52	145.53	145.53	145.59	145.64	145.66	145.66	145.64	145.59	145.52	145.44	145.36	145.32	145.33	145.35	145.34	145.32	145.28	145.23	145.12	145.00	
G	143.86	144.03	144.22	144.38	144.52	144.63	144.71	144.77	144.82	144.89	145.03	145.16	145.27	145.36	145.42	145.45	145.45	145.44	145.52	145.57	145.60	145.60	145.60	145.57	145.52	145.45	145.36	145.33	145.35	145.36	145.35	145.32	145.25	145.16	145.04	144.92	
H	143.74	143.92	144.10	144.27	144.41	144.52	144.60	144.65	144.71	144.77	144.92	145.05	145.16	145.24	145.30	145.33	145.34	145.33	145.40	145.45	145.48	145.48	145.46	145.40	145.33	145.25	145.21	145.21	145.24	145.25	145.24	145.20	145.13	145.04	144.93	144.80	
J	143.63	143.81	144.01	144.17	144.31	144.42	144.50	144.55	144.59	144.66	144.80	144.94	145.05	145.13	145.19	145.22	145.23	145.22	145.22	145.29	145.34	145.37	145.37	145.35	145.29	145.22	145.14	145.10	145.13	145.15	145.14	145.11	145.04	144.94	144.82	144.69	
K	143.63	143.82	144.02	144.19	144.33	144.44	144.51	144.56	144.59	144.66	144.80	144.93	145.04	145.12	145.18	145.21	145.22	145.22	145.22	145.29	145.33	145.36	145.36	145.33	145.28	145.22	145.14	145.10	145.14	145.16	145.16	145.12	145.06	144.95	144.83	144.69	

BOTTOM OF SLAB ELEVATIONS
(For Loading Case I)



CAMBER ORDINATES (inches)

Beams	A, K		B, J		C		D, E, F		G		H													
Camber Dim'n	aa	bb	cc	dd	ee	ff	aa	bb	cc	dd	ee	ff	aa	bb	cc	dd	ee	ff	aa	bb	cc	dd	ee	ff
I	28	38	24	24	38	24	22	22	38	28	28	28	28	28	28	38	28	24	38	28	28	28	38	
II	24	38	2	2	38	28	28	28	28	38	28	28	28	28	28	38	28	24	38	28	28	28	38	
III	2	4	14	14	4	58	38	14	14	14	4	2	14	18	18	4	38	4	18	18	4	38	4	

Work Sheets 24 & 25 Together

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

BURT ROAD OVER 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]*
PROFESSIONAL ENGINEER

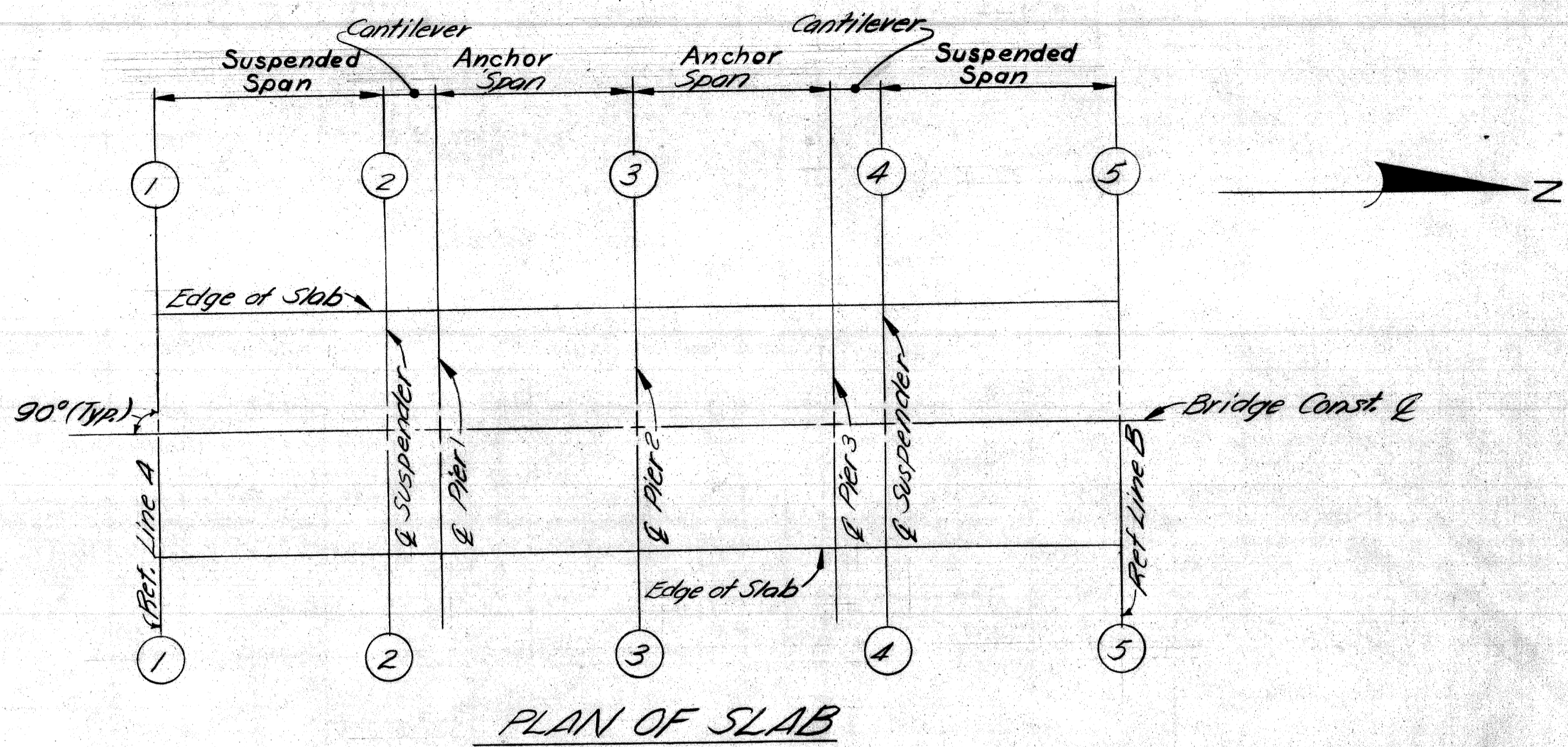
JOB No. 990(20)

REVISIONS

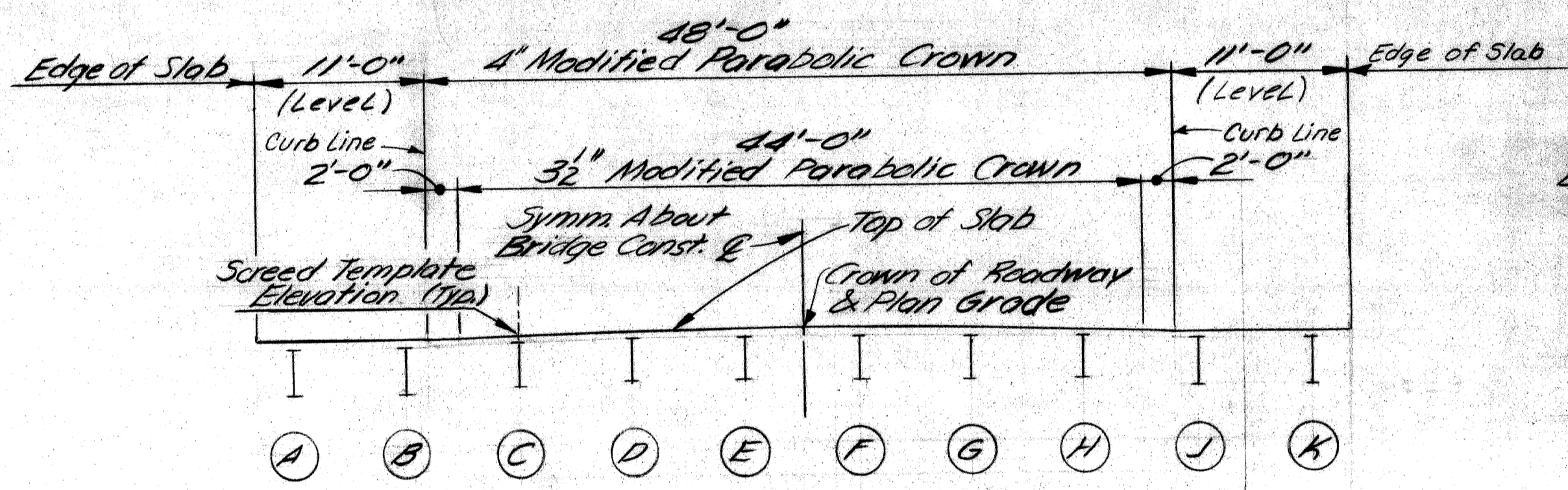
NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT

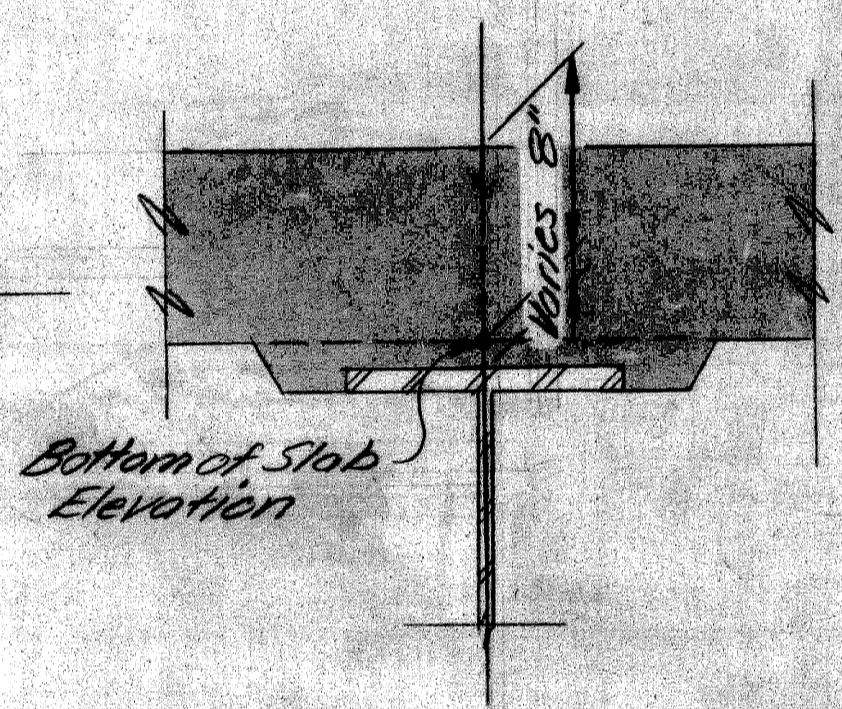
SQUAD BOSS: *[Signature]* 8-70
DRAWN BY: *[Signature]* 8-70
TRACED BY: *[Signature]* 8-70
CHECKED BY: *[Signature]* 8-70
SHEET 22 OF 26



PLAN OF SLAB



SCREED TEMPLATE



TYPICAL SECTION AT EACH BEAM

SCREED TEMPLATE ELEVATIONS FOR LOADING CASE II

Line	Beam	A	B	C	D	E	F	G	H	J	K
1-1		144.29	144.29	144.41	144.52	144.60	144.60	144.52	144.41	144.29	144.29
2-2		145.26	145.26	145.37	145.49	145.57	145.57	145.49	145.38	145.26	145.26
3-3		145.88	145.88	146.00	146.11	146.19	146.19	146.11	146.00	145.88	145.88
4-4		145.77	145.76	145.88	146.00	146.08	146.08	146.00	145.88	145.76	145.77
5-5		145.36	145.36	145.47	145.58	145.66	145.66	145.58	145.47	145.36	145.36

NOTES:

- Pour suspended spans before pouring anchor spans.
- Screeds affected by loads in other spans shall be set to elevations shown before pouring any concrete.
- Elevations and cambers shown include allowances for deflections due to the weight of structural steel, weight of forms, steel reinforcement, slab concrete, sidewalk, railing and P.L.C. encasement. The loading cases are as follows:
- Case I - All structural steel erected and no other load applied.
- Case II - Forms, steel reinforcement and P.L.C. encasement in place on structural steel and no other load applied.
- Case III - Steel reinforcement, P.L.C. encasement and slab concrete in place on structural steel and no other load applied.

Work Sheets 24 & 25 Together

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 BURT ROAD OVER JEFFRIES FREEWAY
 IN DETROIT
 SUPERSTRUCTURE DETAILS

CITY OF DETROIT

ROAD NO. 8-70
 DRAWN BY 6-70
 CHECKED BY 8-70
 SHEET 25 OF 26

REVISIONS

NO.	DESCRIPTION	DATE	BY

JOB No. 990(20)

APPROVED: [Signature] STRUCTURAL ENGINEER

S22 of 82122J

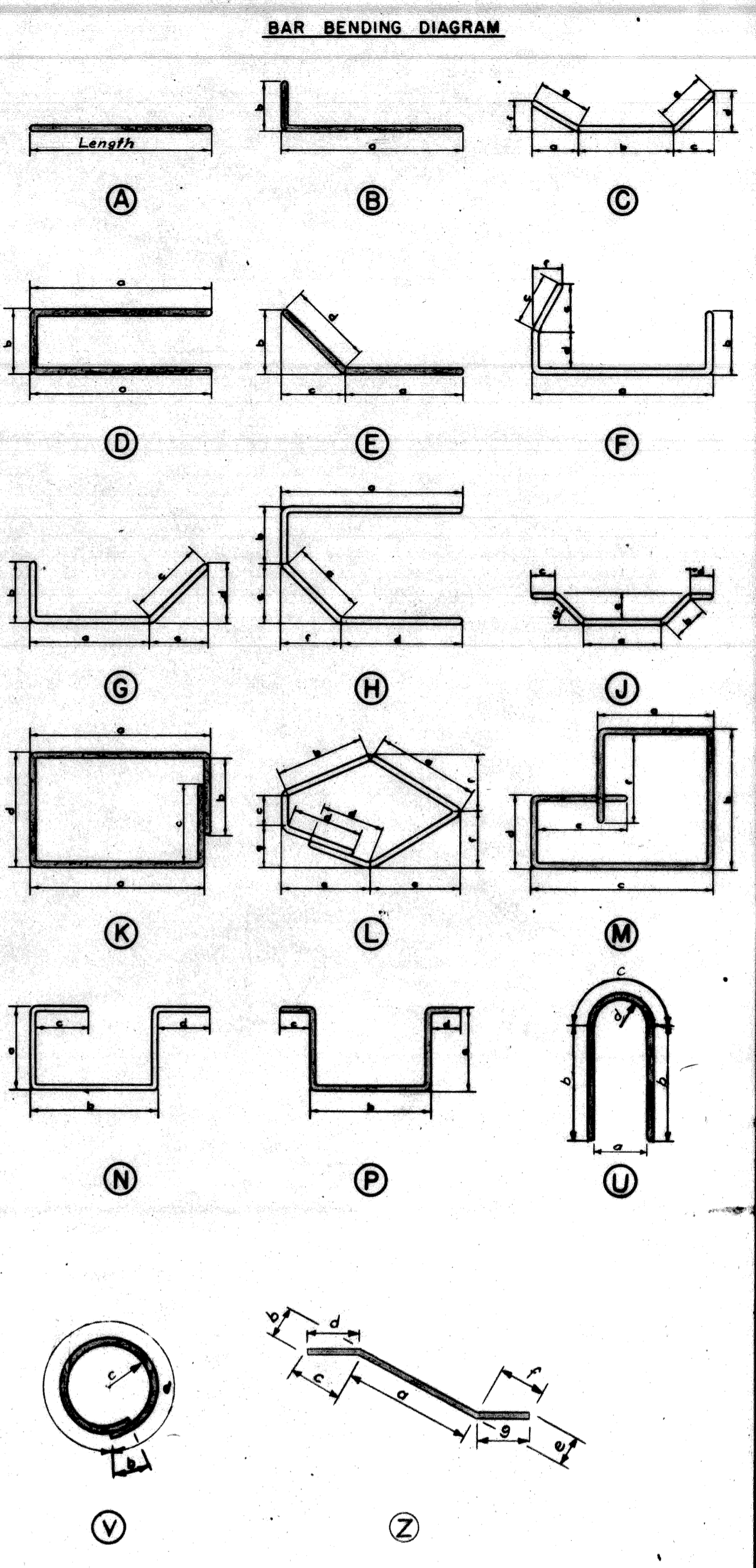
PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: [Signature] STRUCTURAL ENGINEER

BAR	DIMENSIONS							SIZE	LENGTH	NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g				
A1								#6	6'-3"	94	882
A2								#9	4'-9"	94	1518
A3								#6	4'-0"	92	553
A4								#6	36'-0"	19	1027
A5								#6	38'-6"	21	1214
A6								#4	23'-6"	40	628
A7								#4	26'-0"	40	695
A8								#4	22'-3"	40	595
A9								#6	4'-9"	100	713
A10								#6	7'-0"	92	967
A11								#6	7'-9"	100	1164
A12								#6	4'-0"	92	553
A13								#6	10'-3"	100	1540
A14								#6	19'-6"	18	527
A15								#6	22'-0"	18	595
A16								#6	24'-6"	4	147
A17								#6	16'-6"	28	694
A18								#6	5'-9"	56	484
A19								#6	8'-6"	56	715
A20								#6	3'-6"	52	273
A21								#6	3'-9"	48	270
A22								#6	5'-6"	48	397
A23								#4	21'-0"	64	898
A24								#4	19'-6"	40	521
A25								#6	22'-6"	16	541
A26								#6	22'-9"	16	547
A27								#6	22'-3"	8	267
A28								#6	21'-6"	8	258
A29								#6	21'-0"	8	252
A30								#6	20'-3"	8	243
A31								#6	19'-9"	8	237
A32								#6	19'-0"	8	228
A33								#6	18'-6"	8	222
A34								#6	18'-0"	8	216
A35								#6	17'-3"	8	207
A36								#6	16'-9"	8	201
A37								#6	16'-0"	8	192
A38								#6	15'-6"	28	652
A39								#6	14'-0"	8	168
A40								#6	13'-6"	8	162
A41								#6	13'-0"	8	156
A42								#6	12'-3"	8	147
A43								#6	11'-9"	8	141
A44								#6	11'-0"	8	132
A45								#6	10'-6"	8	126
A46								#6	10'-0"	8	120
A47								#6	9'-6"	8	114
A48								#6	8'-9"	8	105
A49								#6	7'-6"	28	315
A50								#6	4'-6"	8	54
A51								#4	16'-6"	32	353
A52								#4	14'-9"	32	315
A53								#6	5'-0"	10	75
A54								#6	15'-9"	4	95
A55								#9	9'-6"	94	3036
A56								#6	12'-6"	100	1878
A57								#6	6'-0"	10	90
E1	15'-11"	7'	1'-7 1/2"	1'-9"				#4	17'-8"	8	94
Z1	19'-0"	8 3/8"	1'-10 1/4"	2'-0"	7 3/4"	1'-7 1/2"	1'-9"	#4	22'-9"	4	61
Z2	20'-3"	4 1/2"	11 1/8"	1'-0"	7 3/4"	1'-7 1/2"	1'-9"	#4	23'-0"	4	61
Total Wt. Abut. Bars = 29,631 Lbs.											

BAR	DIMENSIONS							SIZE	LENGTH	NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g				
A101								#8	35'-0"	30	2804
A102								#6	35'-0"	36	1892
A103								#8	33'-9"	30	2704
A104								#6	33'-0"	60	2974
A105								#9	8'-3"	180	5049
A106								#6	2'-0"	12	36
A107								#7	25'-0"	120	6132
A108								#7	18'-9"	60	2300
A109								#4	20'-0"	9	120
A110								#4	3'-6"	9	21
A111								#6	8'-0"	276	3316
A112								#9	12'-0"	60	2448
A113								#9	10'-9"	120	4386
D101	2'-3 1/2"	4'-6"						#4	9'-0"	18	108
D102	4'-10 3/8"	2'-7"						#5	12'-3"	264	3373
D103	9 1/2"	2'-3"						#4	3'-9"	51	128
D104	2'-3 1/2"	3'-0"						#4	7'-6"	36	180
E101	5'-10"	9 3/4"	1'-2"	1'-5"				#4	7'-3"	264	1279
K101	3'-2"	1'-3"	1'-3"	1'-6"				#4	10'-3"	408	2794
U101	2'-3 1/2"	1'-2 3/8"	3'-7 1/4"	1'-1 1/4"				#4	6'-0"	18	72
V101	6'-2 1/4"	9 3/4"	11 3/8"					#4	7'-0"	135	631
Total Wt. Pier Bars = 42,747 Lbs.											

BAR	DIMENSIONS							SIZE	LENGTH	NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g				
A201								#6	37'-6"	872	4915
A202								#6	34'-0"	872	44531
A203								#4	36'-0"	352	8465
A204								#4	33'-3"	352	7818
A205								#5	33'-9"	156	5491
A206								#5	36'-3"	312	11796
A207								#6	36'-0"	24	1298
A208								#6	33'-6"	48	2415
A209								#6	30'-9"	24	1108
A210								#6	8'-0"	56	673
A211								#4	10'-0"	8	53
A212								#4	25'-6"	8	136
A213								#4	35'-6"	28	664
A214								#4	18'-0"	2	24
A215								#4	8'-0"	2	11
A216								#4	19'-0"	4	51
A217								#4	24'-0"	4	64
A218								#6	8'-6"	12	153
A219								#6	5'-0"	56	421
A220								#5	34'-9"	156	5654
B201	10'-9 1/2"	9"						#4	11'-6"	440	3380
D201	6 3/8"	1'-2 1/4"						#4	2'-3"	440	661
D202	5 3/8"	1'-4 1/4"						#4	2'-3"	440	661
D203	2'-1 1/8"	6 1/4"						#6	6'-3"	440	4131
K201	3'-1"	1'-0 3/4"	1'-0 3/4"	1'-3 1/2"				#4	9'-6"	32	203
M201	10 1/4"	3'-0 3/8"	1'-3 1/2"	2'-1 3/8"	1'-0"	1'-6"		#4	9'-9"	60	391
M202	10'-4"	3'-0 3/8"	1'-3 1/2"	1'-10 3/8"	10"	1'-10"		#4	9'-9"	6	39
P201	4"	4'-6"	1'-1"	1'-1"				#4	7'-3"	2	10
P202	10 1/8"	3'-6"	1'-0 3/8"	1'-0 3/8"				#4	7'-3"	218	1056
Total Wt. Superstr. Bars = 150,473 Lbs.											



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

JOB No.
990(20)

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

BURT ROAD OVER JEFFRIES FREEWAY IN DETROIT

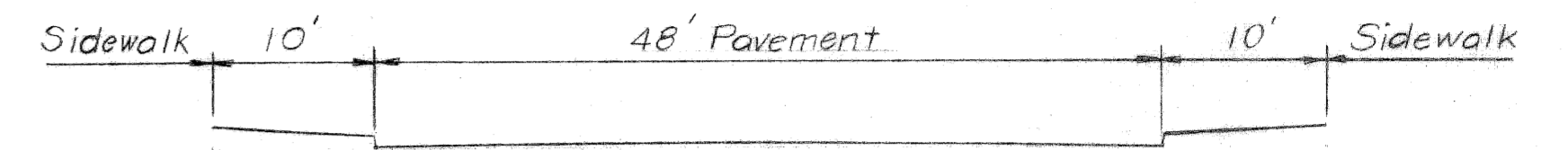
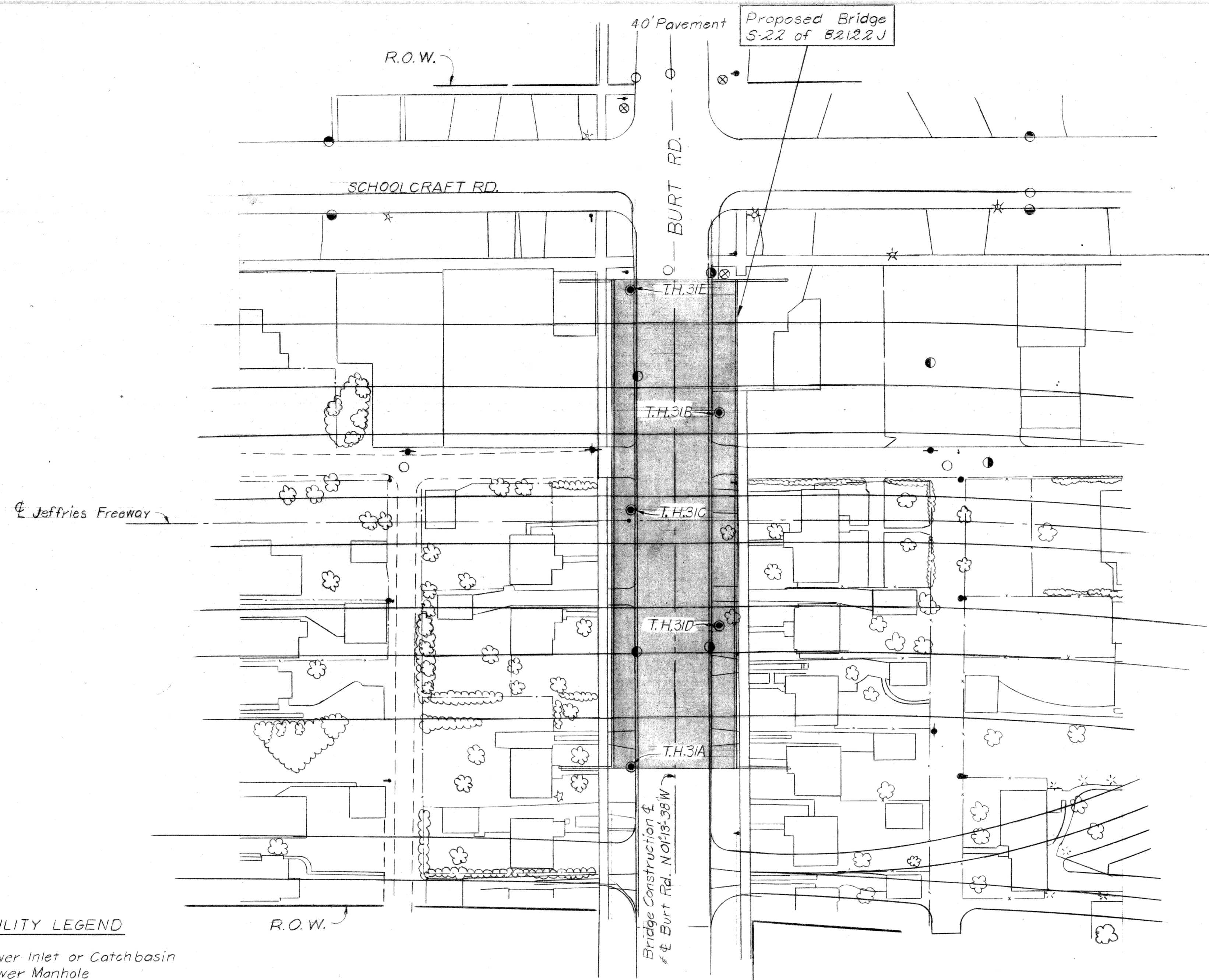
STEEL REINFORCEMENT DETAILS

CITY OF DETROIT
 DRAWN BY **WARREN 5-70**
 CHECKED BY **J.H.S. 8-70**
 SHEET **26 of 26**

S22 of 82122J

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 on this sheet to be prefixed

Tolerances in cutting and bending bars are as established in Manual of Standard Practices of the Concrete Reinforcing Steel Institute and Detailing Manual of the American Concrete Institute
 Grand Total Steel Reinforcement 222,851 #



APPROACH ROAD SECTION

- UTILITY LEGEND**
- Sewer Inlet or Catchbasin
 - Sewer Manhole
 - ⊗ Water Gate Well & Valve
 - P.L.C. Manhole or Handhole
 - ⊙ Test Hole for Soil Profile
 - ✱ P.L.C. Light Pole
 - ☺ Tree
 - x—x— Fence

40' Pavement

SURVEY PLAN

Scale: 1"=40'

GENERAL NOTES:

The work covered by these plans includes construction of the proposed bridge and placing light weight fill and slope protection to the limits shown. All other work is included in the Road Plans which are a 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 operations in such a manner as to insure that those utilities not requiring relocation will not be disturbed.

BURT ROAD traffic is to be maintained over the temporary road.

Datum refers to City of Detroit datum.

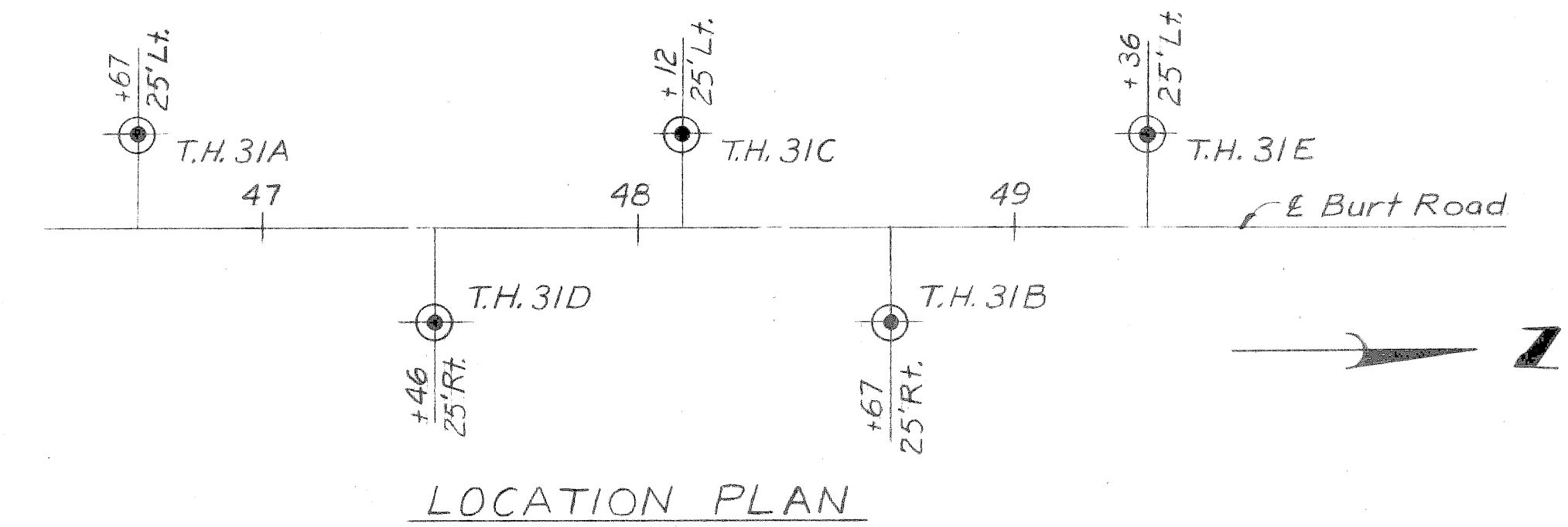
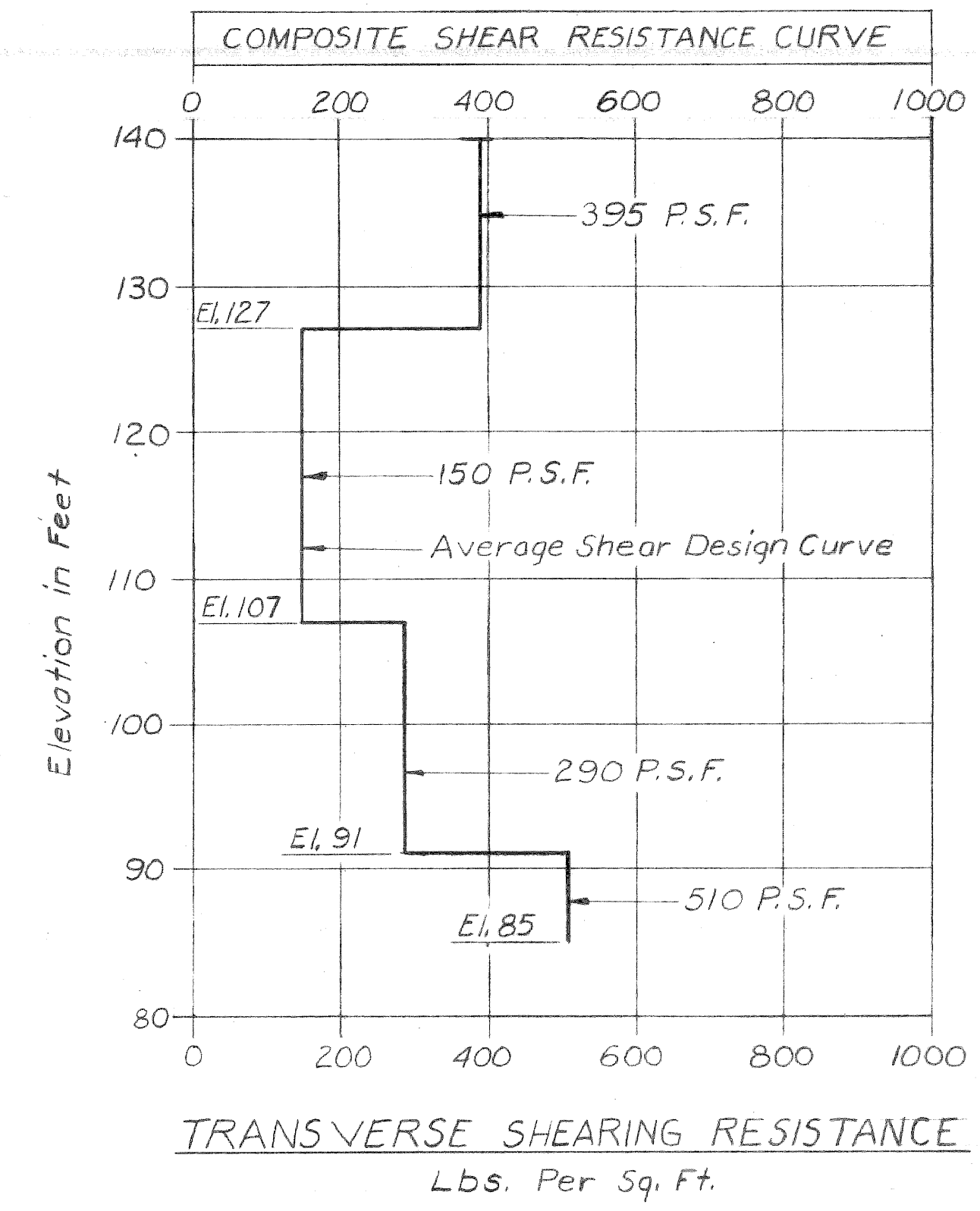
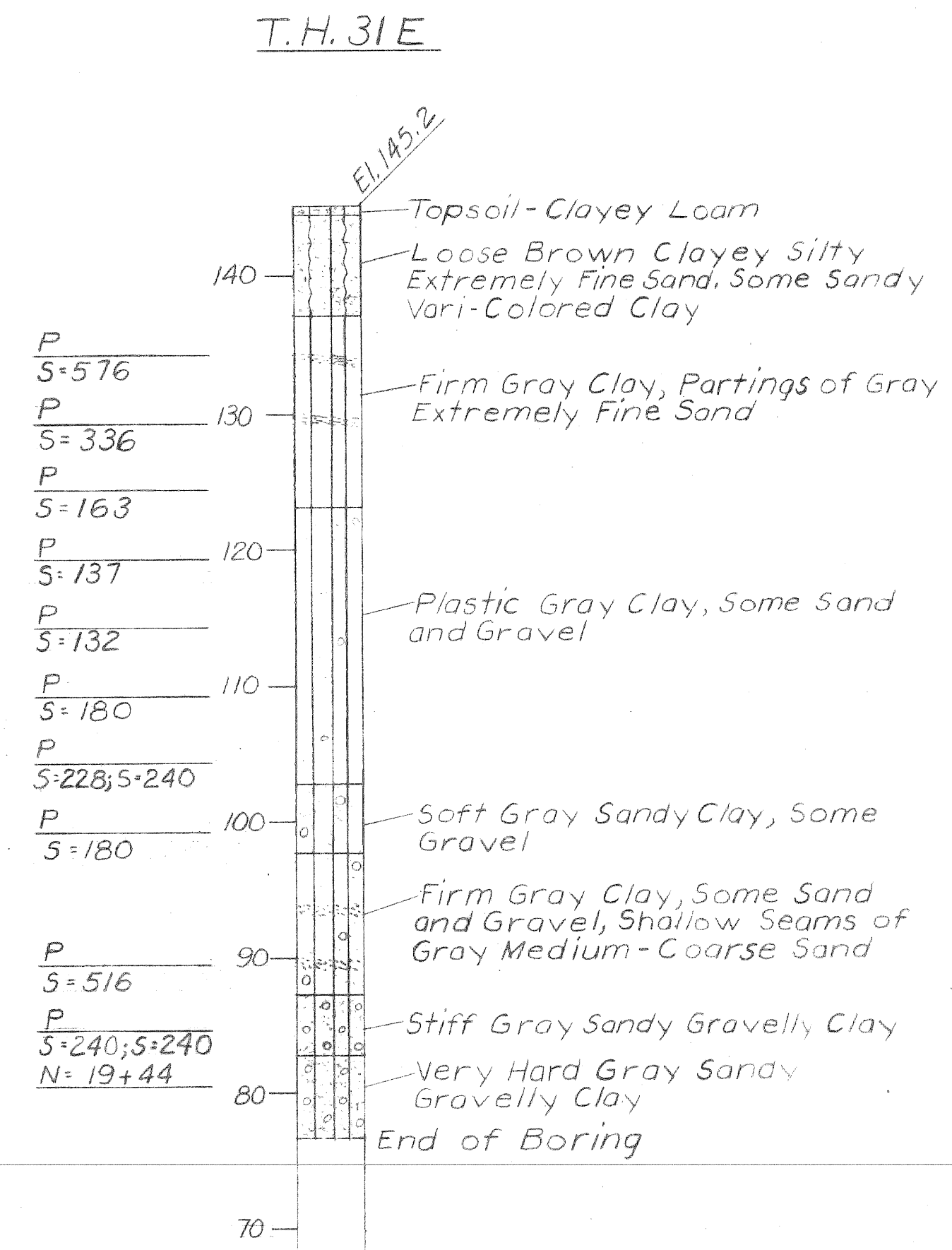
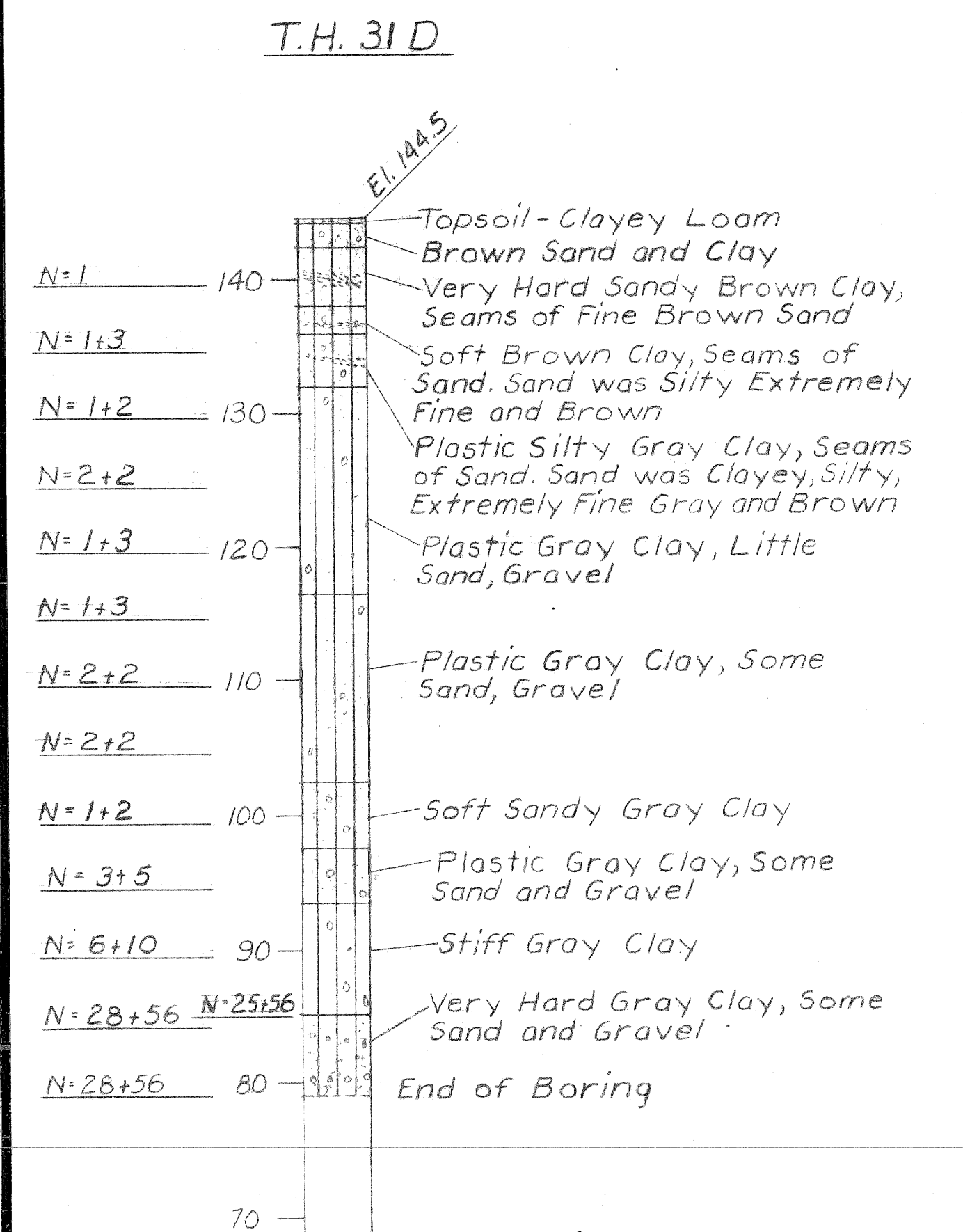
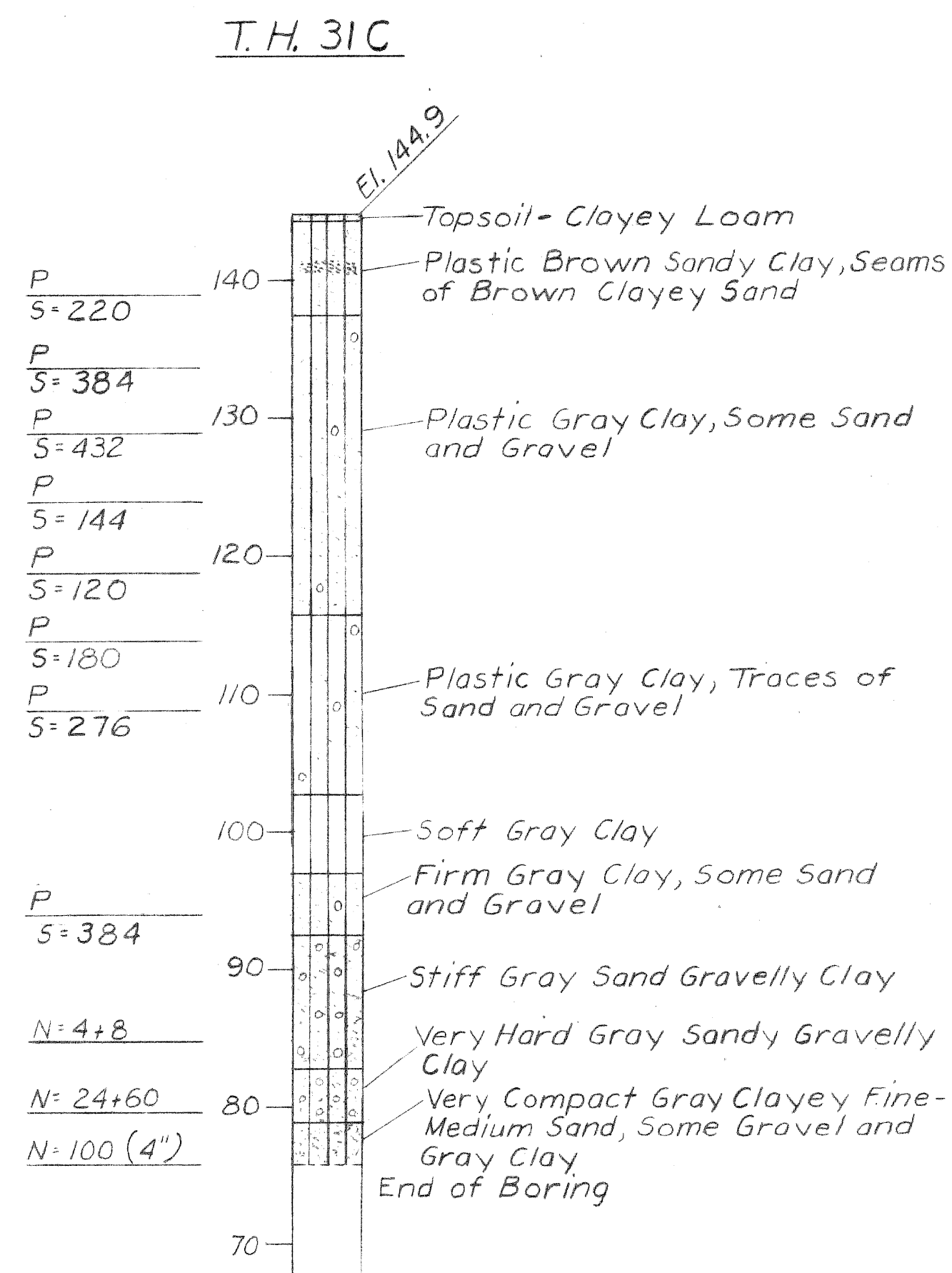
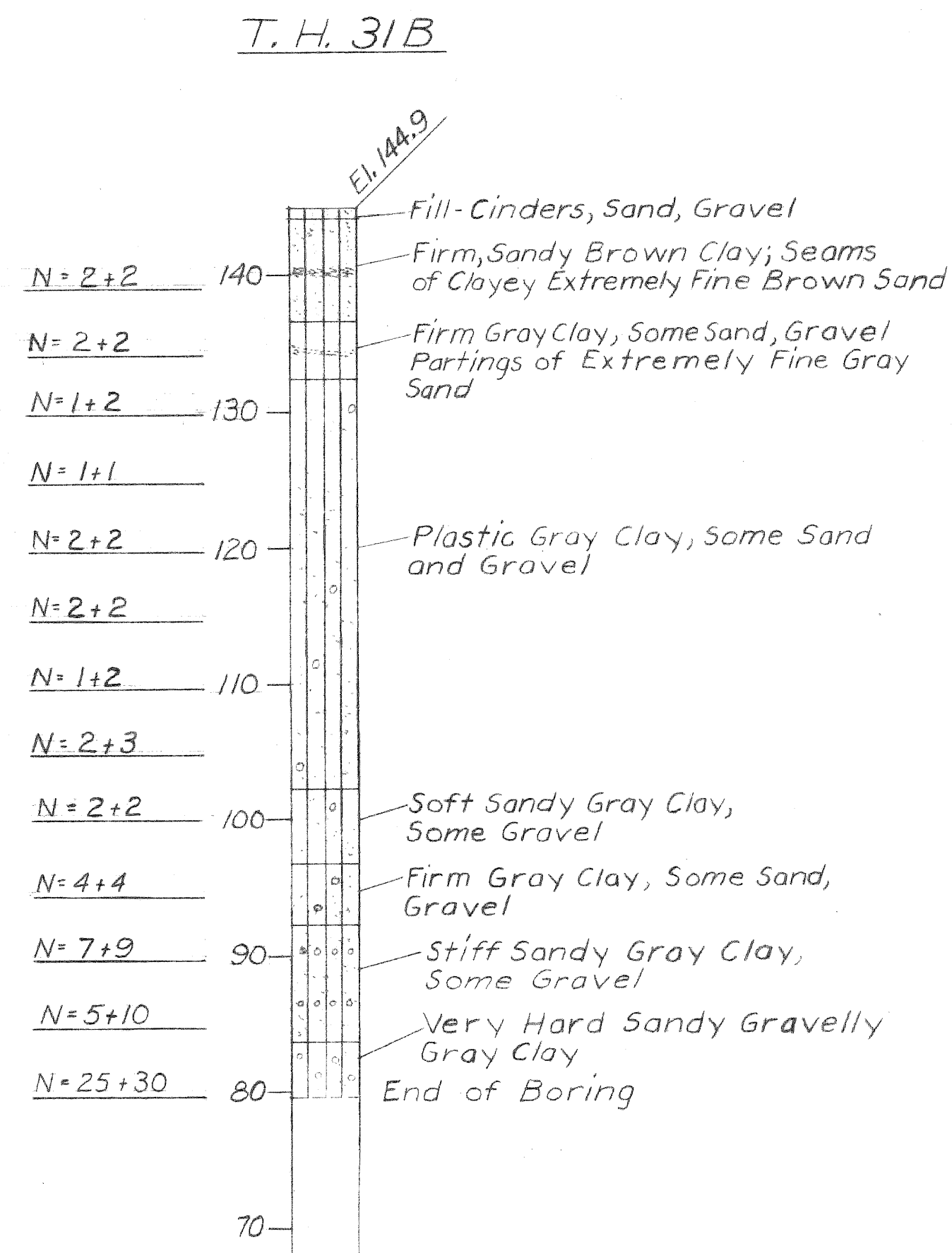
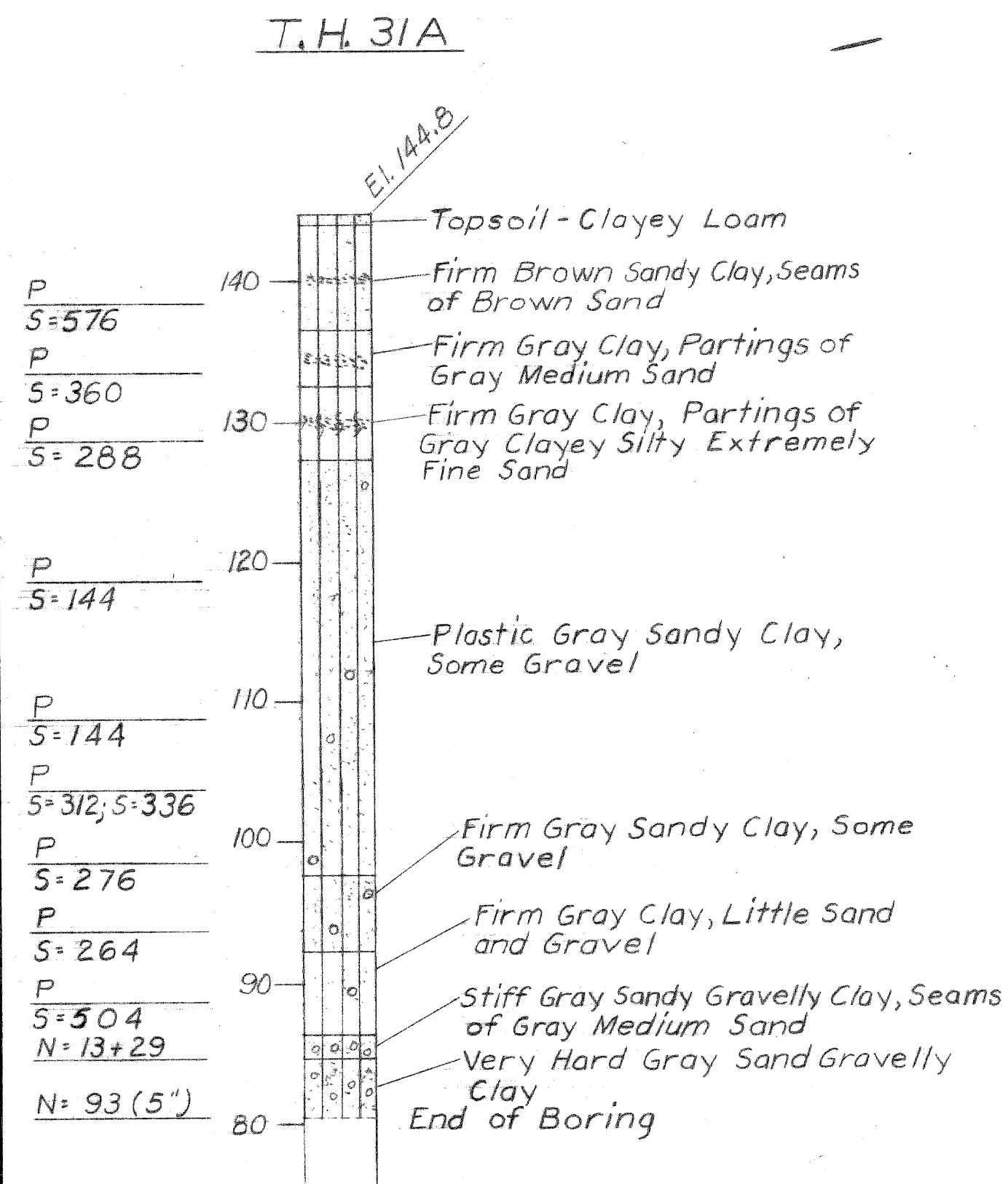
Topography shown here on represents conditions existing at the time the field survey was made. However, these conditions may have been materially altered by the operations of others before the work has been started.

PRELIMINARY PLAN 'A' July 16, 1969

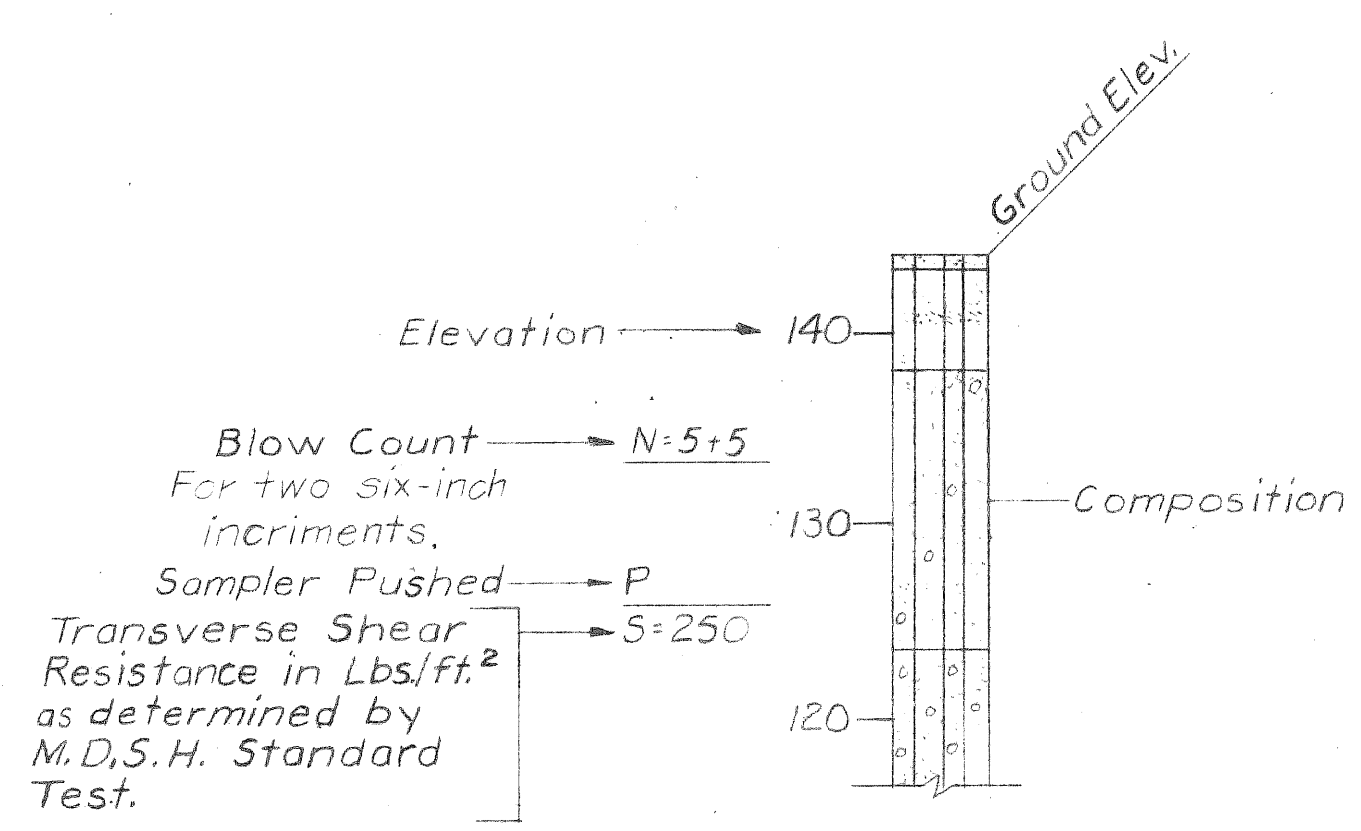
PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS		MICHIGAN DEPARTMENT OF STATE HIGHWAYS BURT ROAD OVER JEFFRIES FREEWAY IN DETROIT GENERAL PLAN OF SITE																
APPROVED _____ STRUCTURAL ENGINEER		JOB No. 990(20)																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS			NO.	DESCRIPTION	DATE BY									
REVISIONS																		
NO.	DESCRIPTION	DATE BY																
APPROVED _____ SUPERVISOR-DESIGN		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SQUAD BOSS</td> <td>STURN</td> <td>7-69</td> </tr> <tr> <td>DRAWN BY</td> <td>G.</td> <td>7-69</td> </tr> <tr> <td>TRACED BY</td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td>E.H.K.</td> <td>4-69</td> </tr> <tr> <td colspan="3" style="text-align: center;">SHEET OF 5</td> </tr> </table>		SQUAD BOSS	STURN	7-69	DRAWN BY	G.	7-69	TRACED BY			CHECKED BY	E.H.K.	4-69	SHEET OF 5		
SQUAD BOSS	STURN	7-69																
DRAWN BY	G.	7-69																
TRACED BY																		
CHECKED BY	E.H.K.	4-69																
SHEET OF 5																		
APPROVED _____ ENGINEER-DESIGN SECTION I		S22 of 82122 J																

100 28 R 20

LOG OF SOIL BORINGS



LEGEND

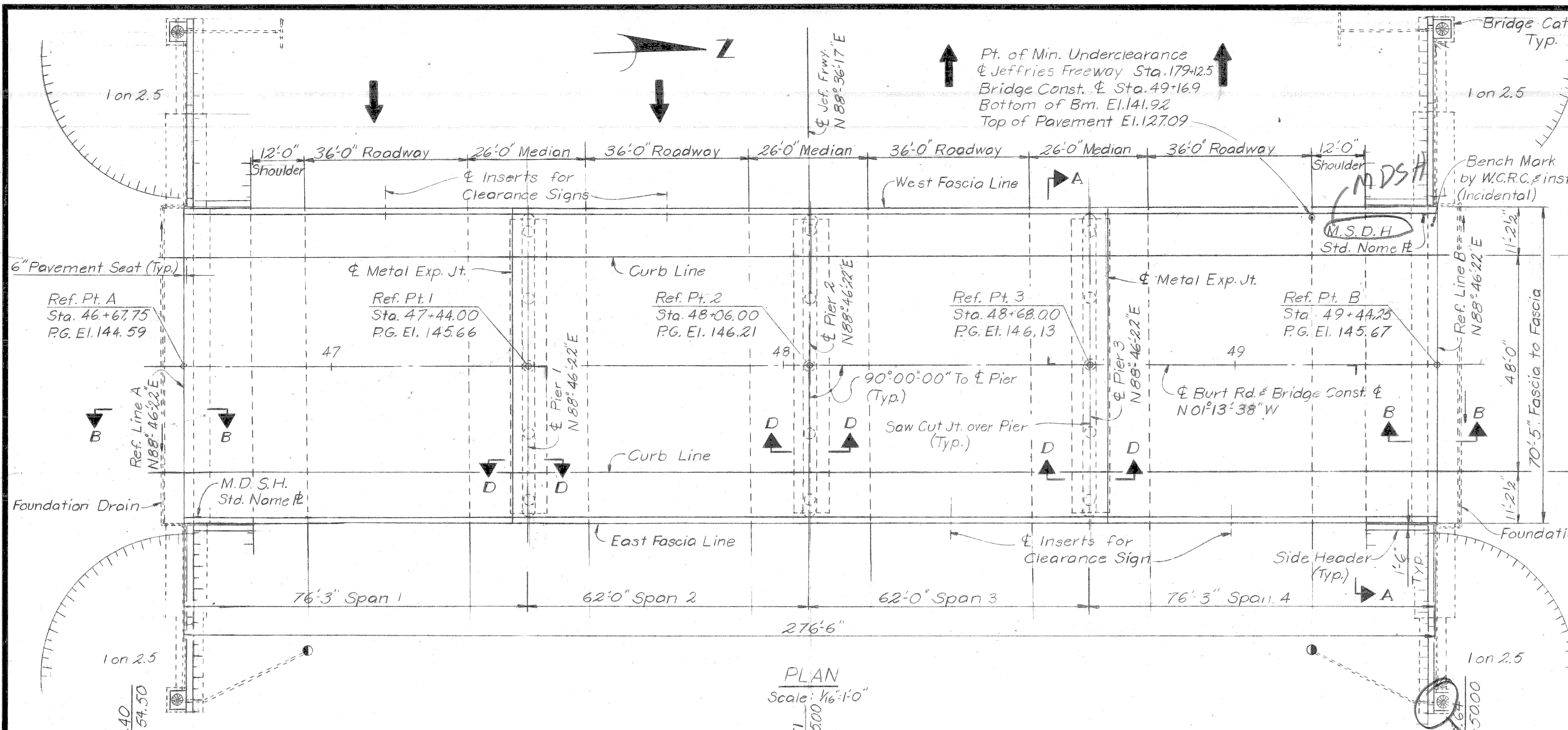


NOTE:
N Indicates number of blows required to drive a sampler 6" (or as noted) using a 140* hammer falling 30".

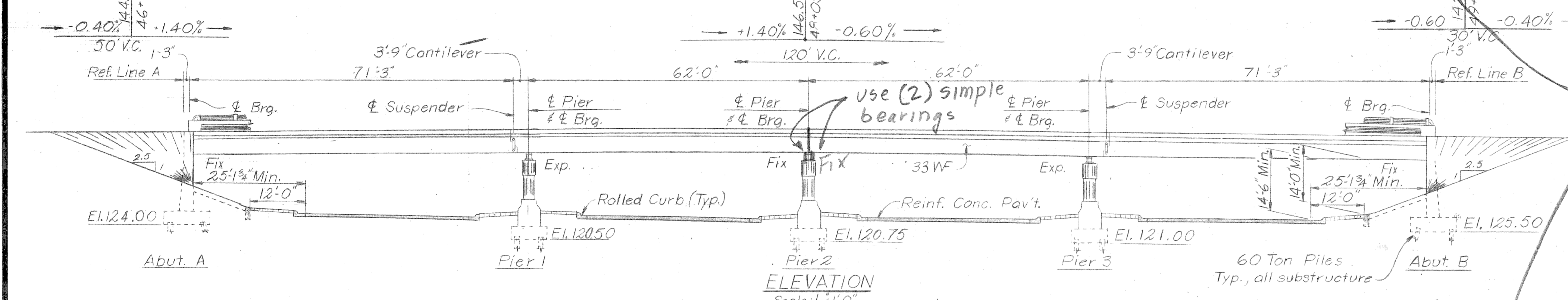
show Both. / Ftg. Elevs.

PRELIMINARY PLAN "A" July 16, 1969

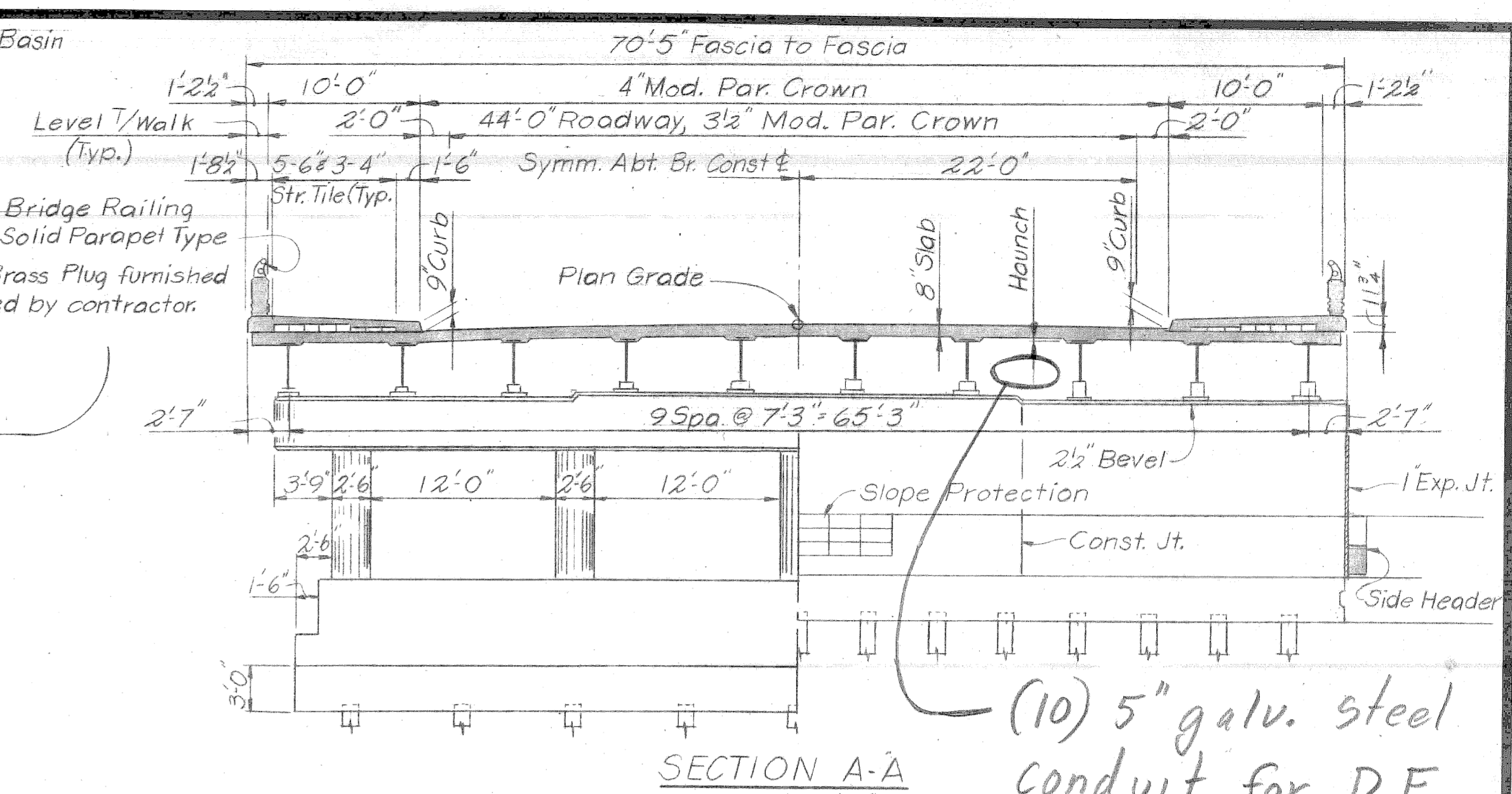
PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS		MICHIGAN DEPARTMENT OF STATE HIGHWAYS BURT ROAD OVER JEFFRIES FREEWAY IN DETROIT	
APPROVED _____ STRUCTURAL ENGINEER		JOB No. PW 990(20)	
REVISIONS			
NO.	DESCRIPTION	DATE	BY
APPROVED _____ SUPERVISOR - DESIGN		APPROVED _____ ENGINEER - DESIGN SECTION I	
DRAWN BY Jones		SQUAD BOSS STURM	
TRACED BY L.G.		7-69 4-69	
CHECKED BY L.G.		SHEET 2 OF 3	
S22 of 82122J			



PLAN
Scale: 1/16" = 1'-0"

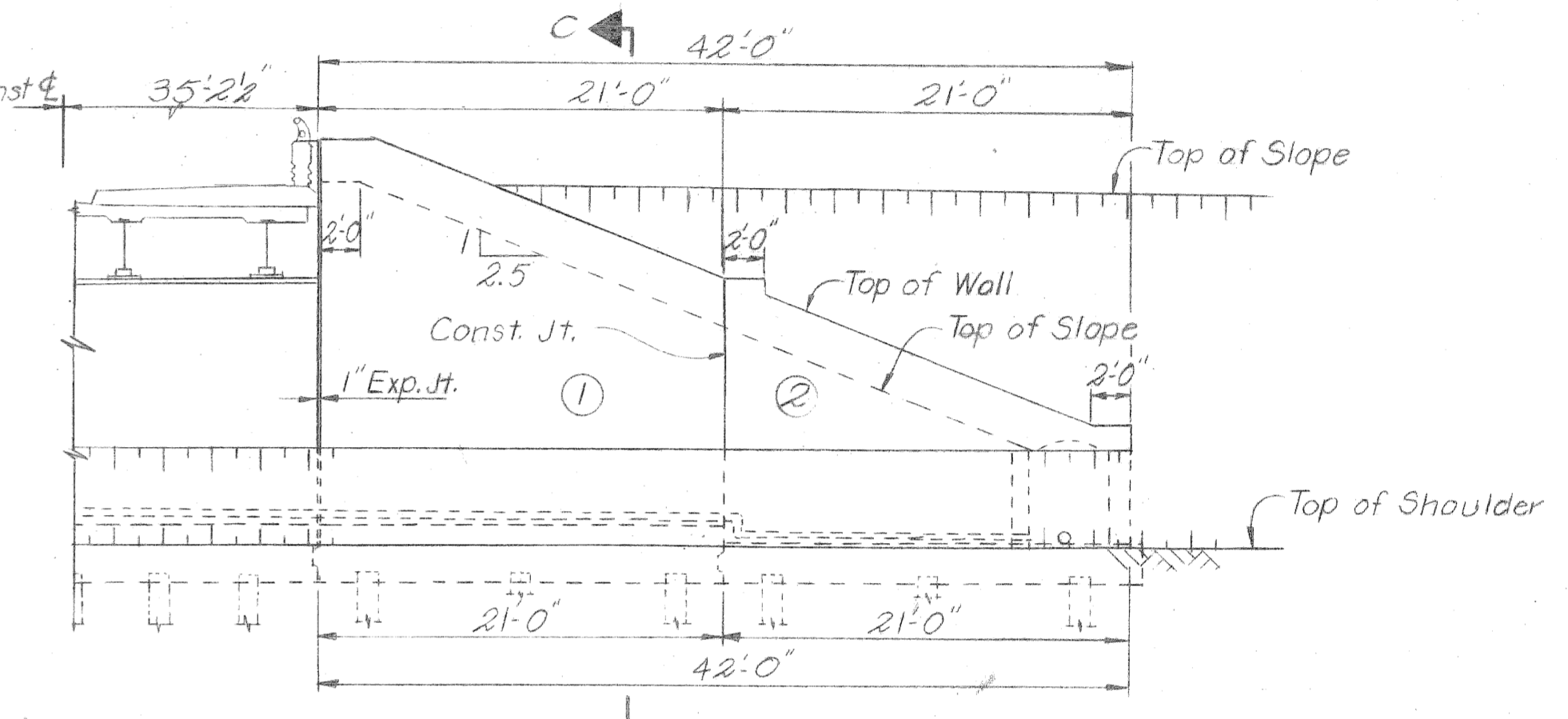


ELEVATION
Scale: 1/16" = 1'-0"



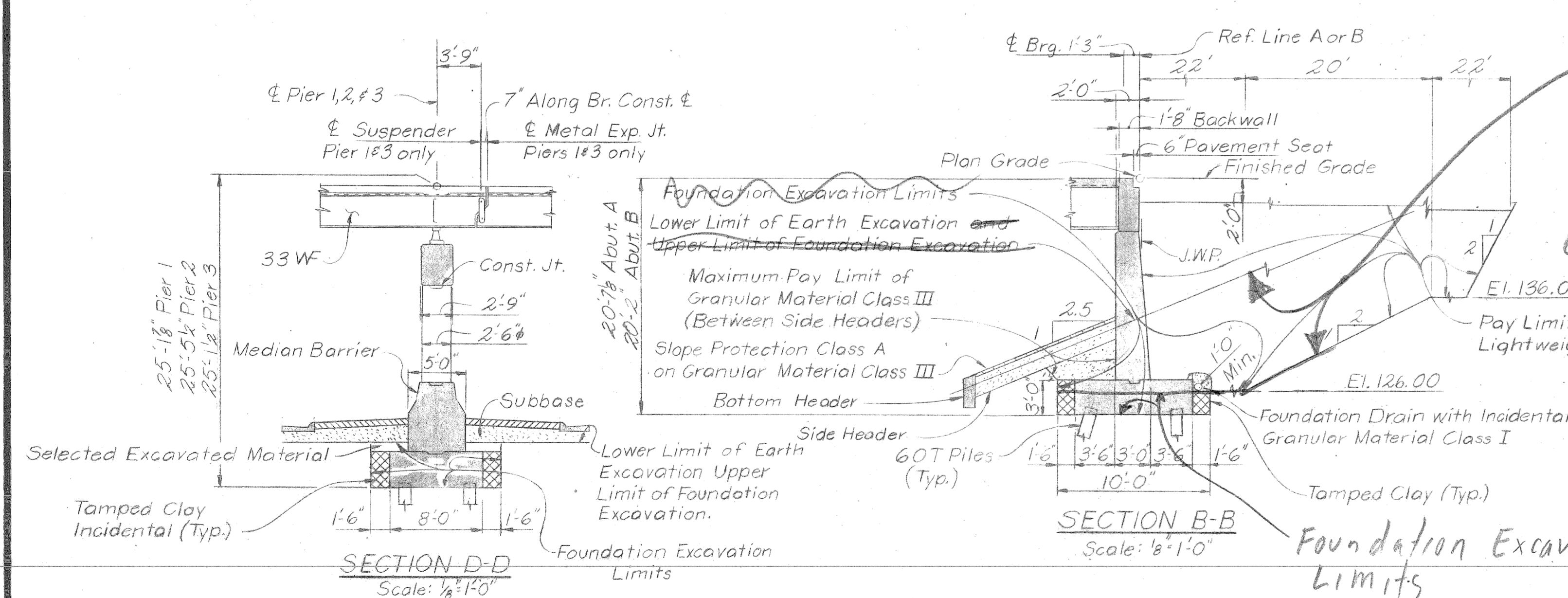
SECTION A-A
Scale: 5/8" = 1'-0"

(10) 5" galv. steel conduit for D.E.



WINGWALL ELEVATION
Scale: 5/8" = 1'-0"

Delete conc. gutters & catch basins



SECTION B-B
Scale: 5/8" = 1'-0"

Foundation Excav. Limits

Excav. for Light wgt. Fill to be paid for as Earth Excav.

MISCELLANEOUS QUANTITIES

Item	Unit	Amount
Lightweight Fill	Cu. Yds.	
Temp. Steel Sheet Piling	Sq. Ft.	
Foundation Drains	Lin. Ft.	
Slope Protection - Class A	Sq. Yds.	
Slope Protection - Header	Lin. Ft.	

SECTION C-C

GENERAL NOTES:
 The design of this Structure is based on the M.S.H.D. Specifications for the Design of Highway Bridges, 1958 Edition and current AASHO Standard Specifications for Highway Bridges, HS-20 - 44 loading. Live load plus impact deflection 1/1000 of Span Length and 1/500 of Cantilever Arm.
 Top of roadway slab and tops of curbs are parallel to the vertical curve.
 Tamped Clay is incidental to unclassified excavation.
 For details of Slope Protection Class A, see Standard Sheet SP-2.
 Granular Material Class I incidental to Foundation Drain.
 Granular Material Class III is billed on Road Plans.
 Estimated Amount is cu. yds. Abutments.
 cu. yds. Slope Protection.
 P.G. El. Denotes Plan Grade Elevation.

PRELIMINARY PLAN "A" July 16, 1969

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

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 BURT ROAD OVER JEFFRIES FREEWAY
 IN DETROIT
 GENERAL PLAN OF STRUCTURE

APPROVED: STRUCTURAL ENGINEER
 JOB No. 990(20)

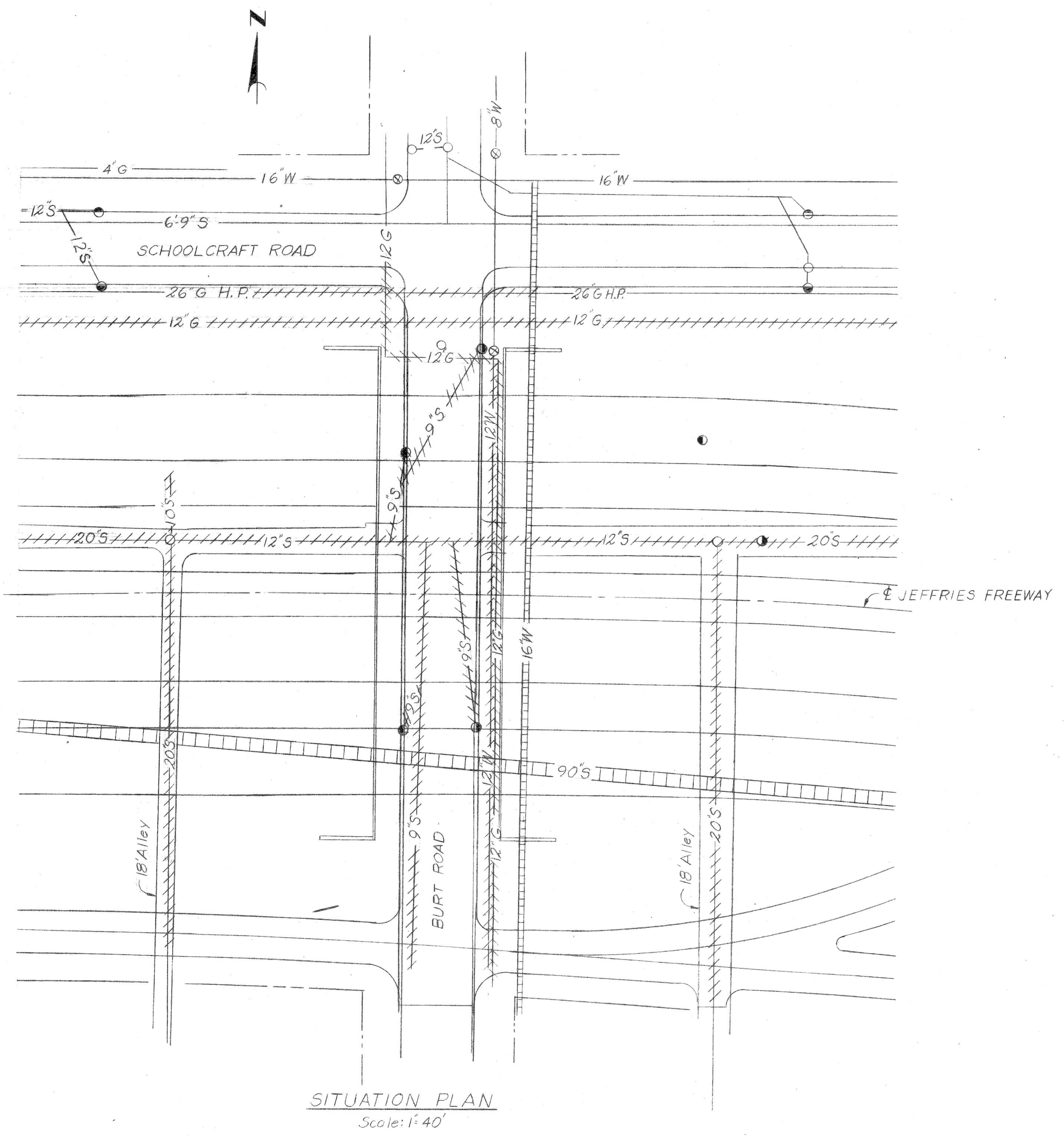
REVISIONS

NO.	DESCRIPTION	DATE	BY

APPROVED: SUPERVISOR - DESIGN
 APPROVED: ENGINEER - DESIGN SECTION I

SQUAD BOSS: STUM 7-69
 DRAWN BY: L.G. 4-69
 CHECKED BY: JHS 7-69
 SHEET 4 OF 5

S22 of 82122 J

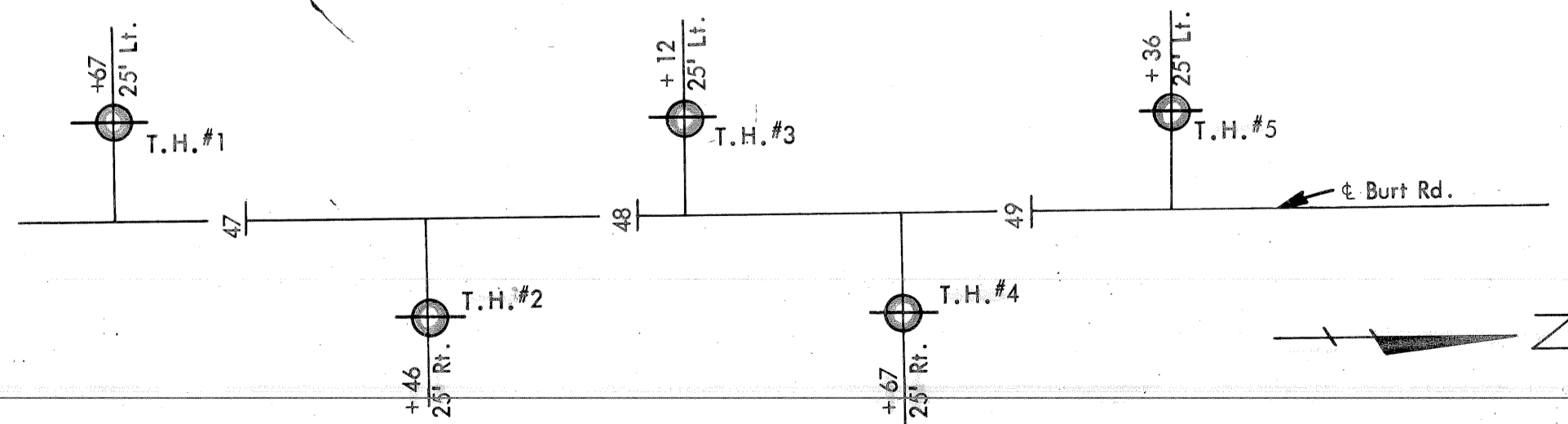
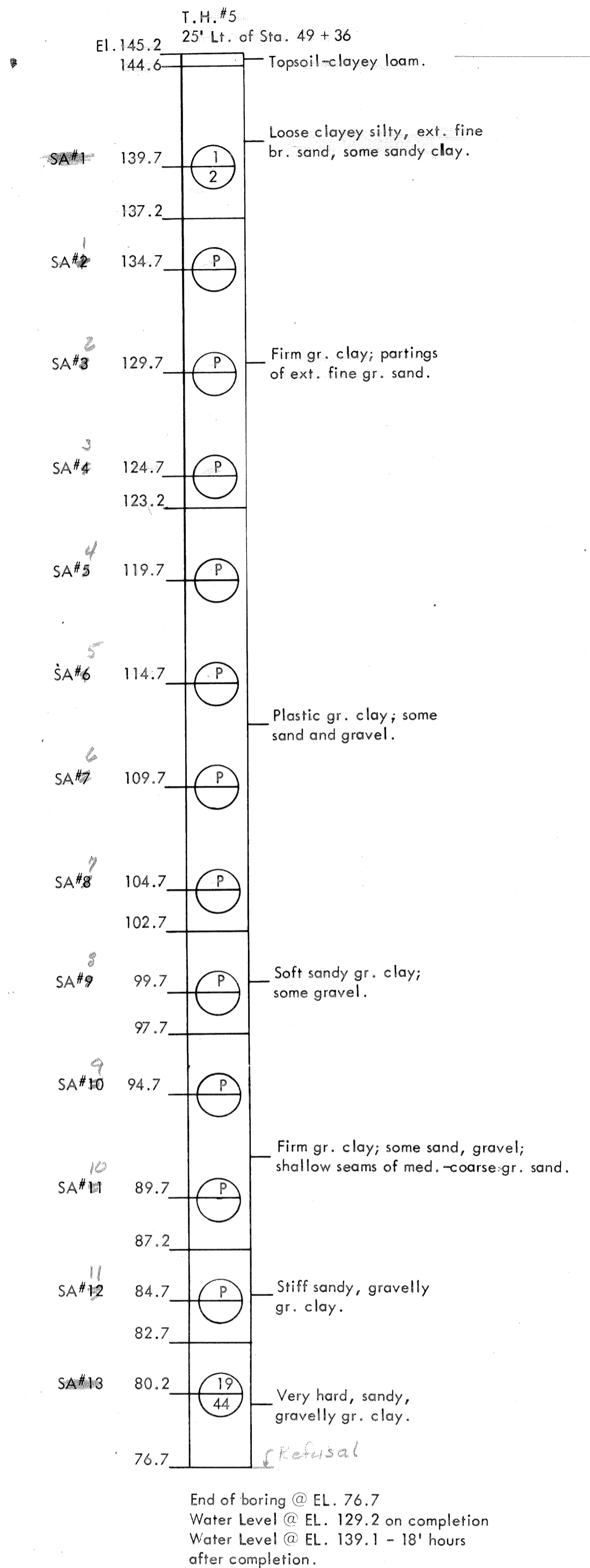
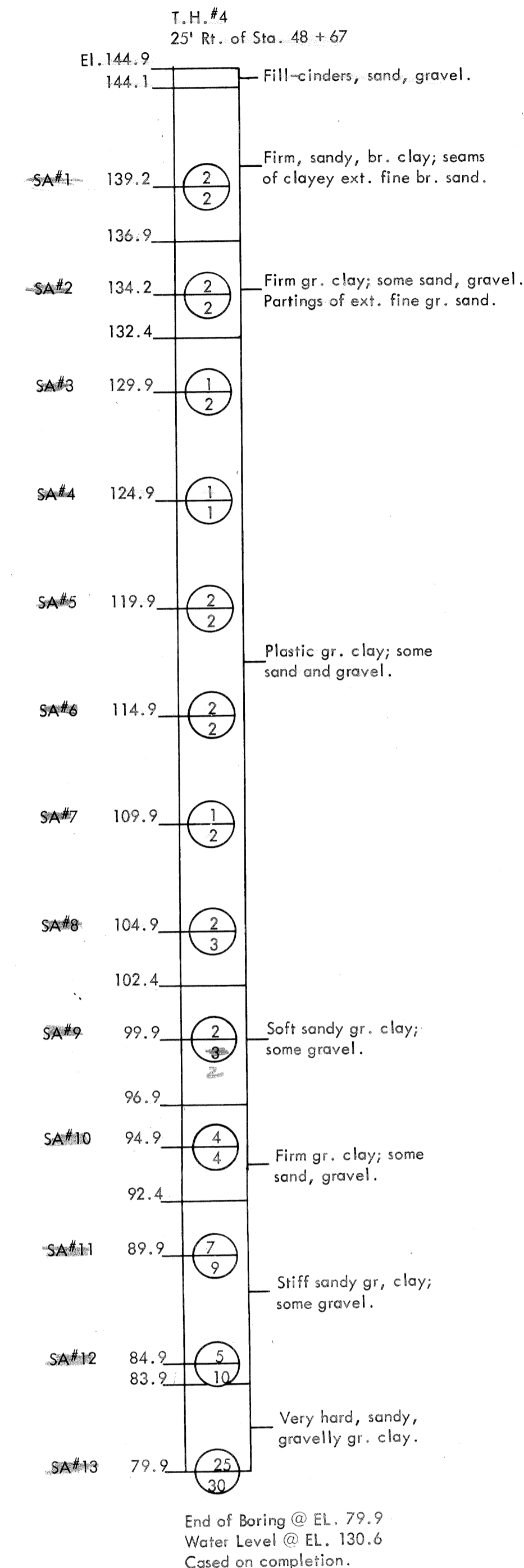
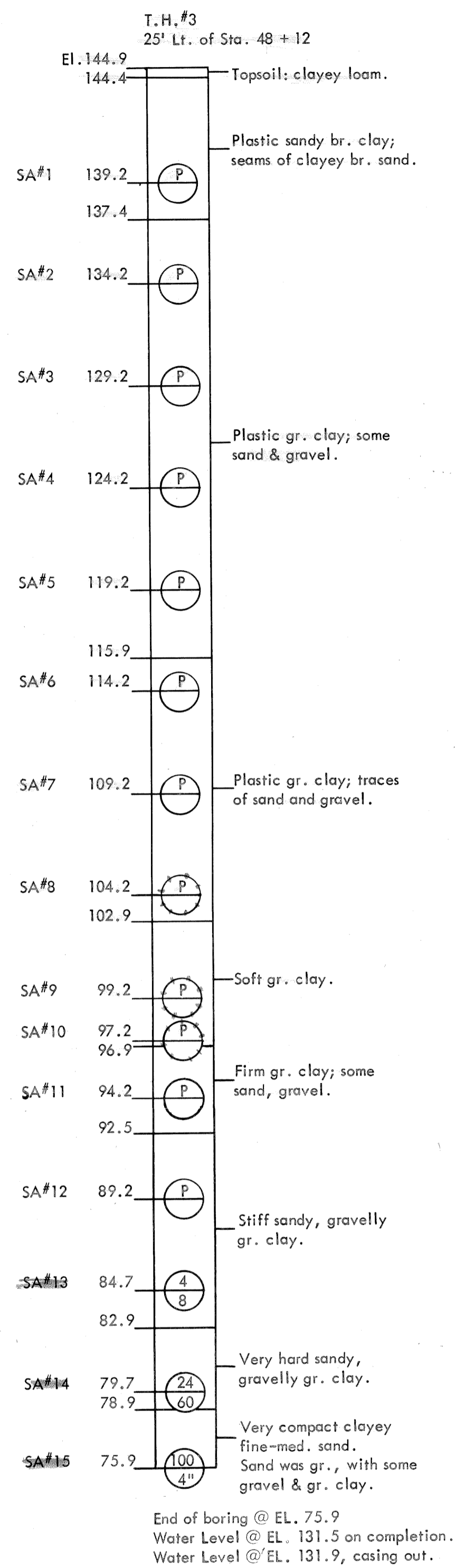
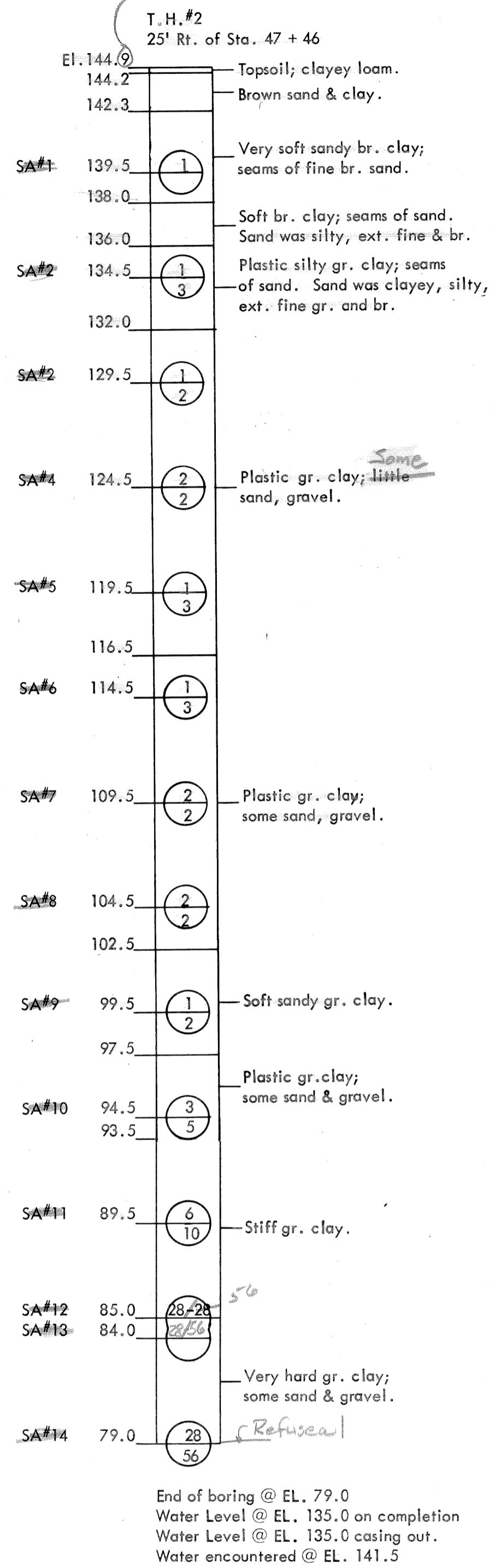
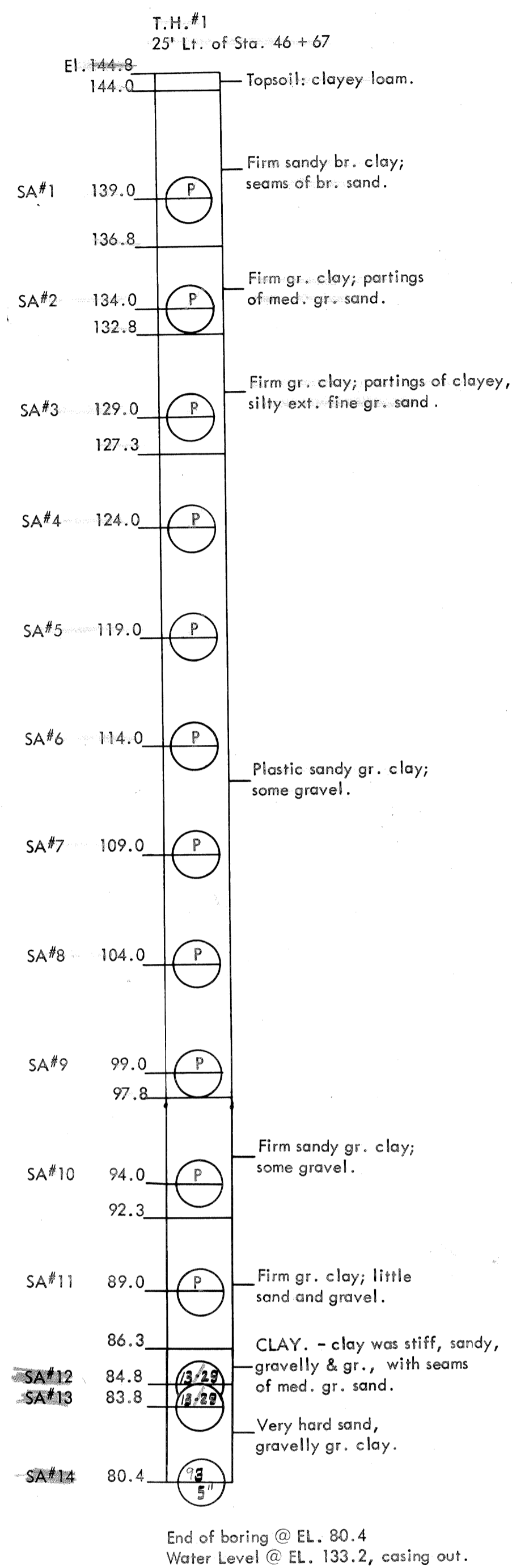


SITUATION PLAN
Scale: 1" = 40'

UTILITY	EXISTING	DELETE	NEW WORK BY OTHERS
DETROIT WATER DEPARTMENT	— W —	/// W ///	== W ==
FREWAY & CITY OF DETROIT SEWERS	— S —	/// S ///	== S ==
MICHIGAN CONSOLIDATED GAS CO.	— G —	/// G ///	

PRELIMINARY PLAN "A" July 16, 1969

PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS		MICHIGAN DEPARTMENT OF STATE HIGHWAYS BURT ROAD OVER JEFFRIES FREEWAY IN DETROIT																	
APPROVED _____ STRUCTURAL ENGINEER	JOB No. 990(20)	EXISTING UTILITIES AND PROPOSED ALTERATIONS																	
REVISIONS <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> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DESCRIPTION	DATE	BY													APPROVED _____ SUPERVISOR-DESIGN	SQUAD BOSS DRAWN BY TRACED BY CHECKED BY SHEET 3 OF 5
NO.	DESCRIPTION	DATE	BY																
APPROVED _____ ENGINEER-DESIGN SECTION I		S22 of 82122 J																	



NOTE:

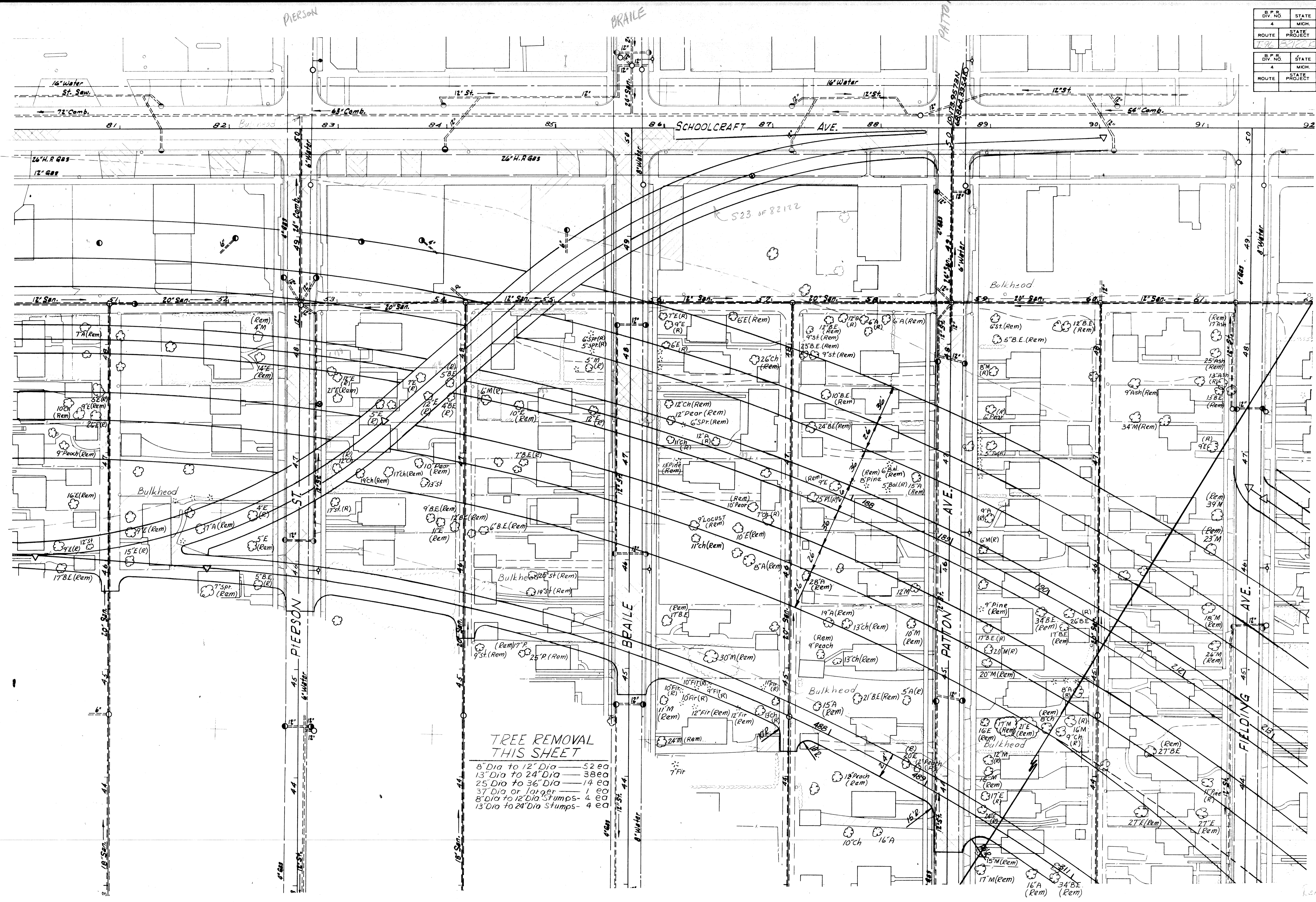
Figures in circle indicate number of blows required to drive 2" O.D. sampling pipe one foot, using 140 lb. weight falling 30".
 (P) Sectional liner sample pushed 18 inches with hydraulic head of drill.
 (C) Sectional liner sample lost - bottle sample obtained.

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
LOG OF BORINGS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SS22 of 82122J

B.P.R. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
194	BRIDGE	WASHTENAW	ANN ARBOR		
B.P.R. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS



TREE REMOVAL THIS SHEET

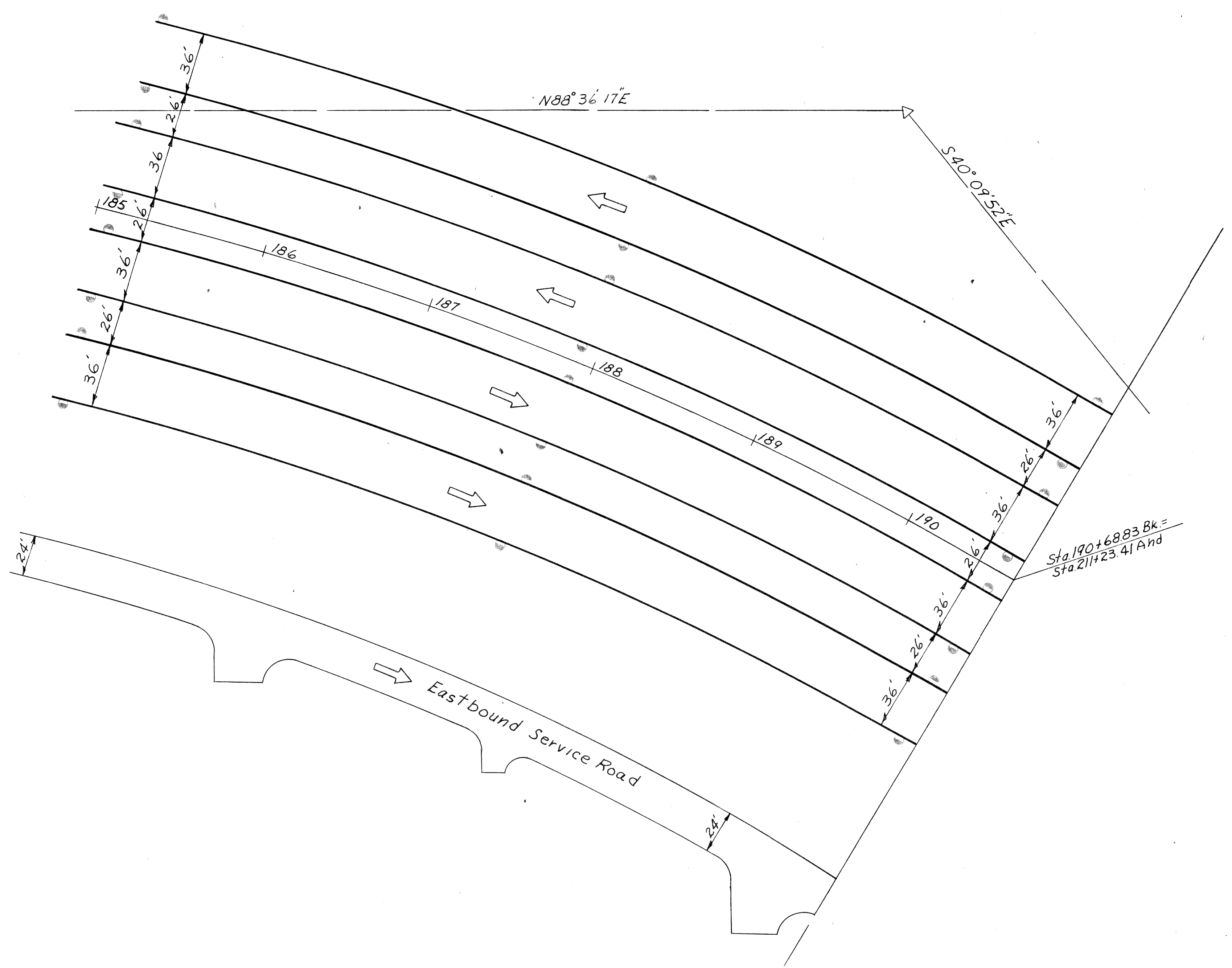
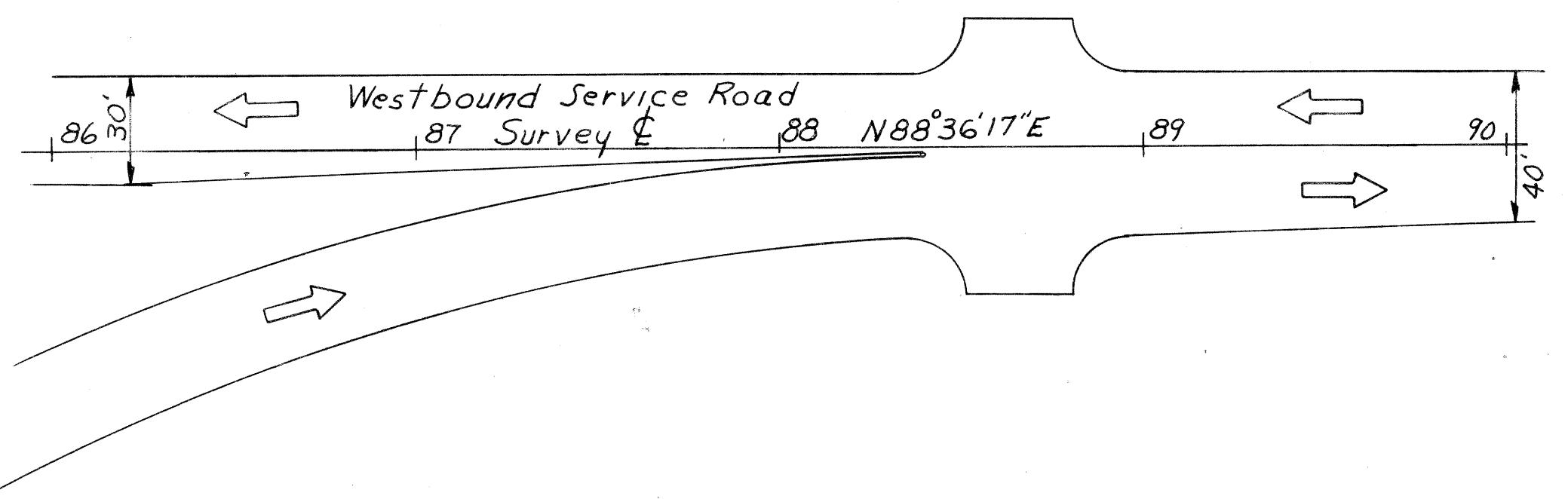
- 8" Dia to 12" Dia — 52 ea
- 13" Dia to 24" Dia — 38 ea
- 25" Dia to 36" Dia — 14 ea
- 37" Dia or larger — 1 ea
- 8" Dia to 12" Dia Stumps — 4 ea
- 13" Dia to 24" Dia Stumps — 4 ea

8/20/68

Removal Report

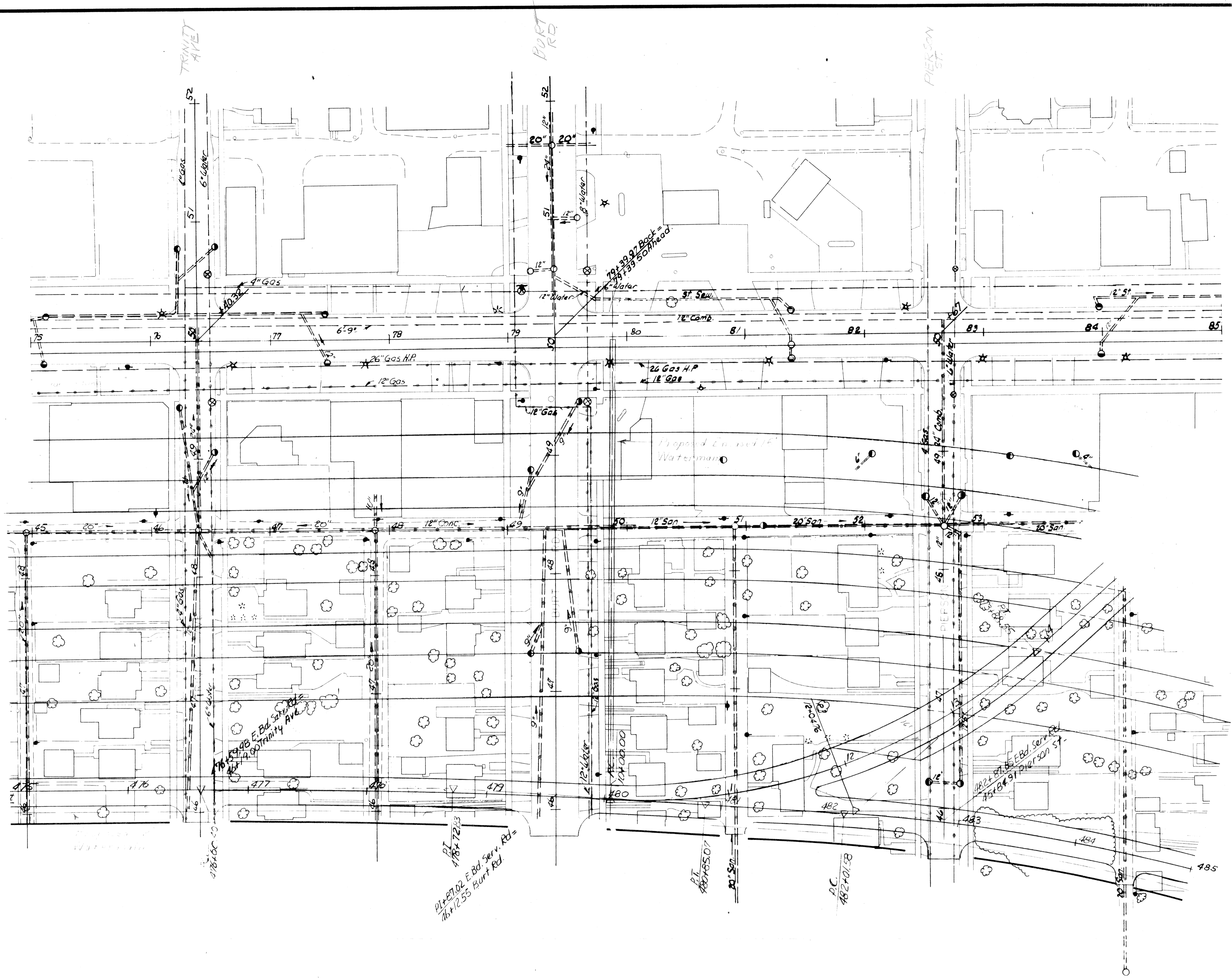
Patton

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



4/30/68

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
I-96	82122JK	Wayne	Detroit		
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



76'x98' E. Bd. San. Serv. Rd.
75'x100' Community Ave.

P.I.
4784 72723
71'x27'02" E. Bd. Ser. v. Rd.
76'x12'55" Burt Rd.

P.I.
4804 85507
20' San

P.C.
4824 0128

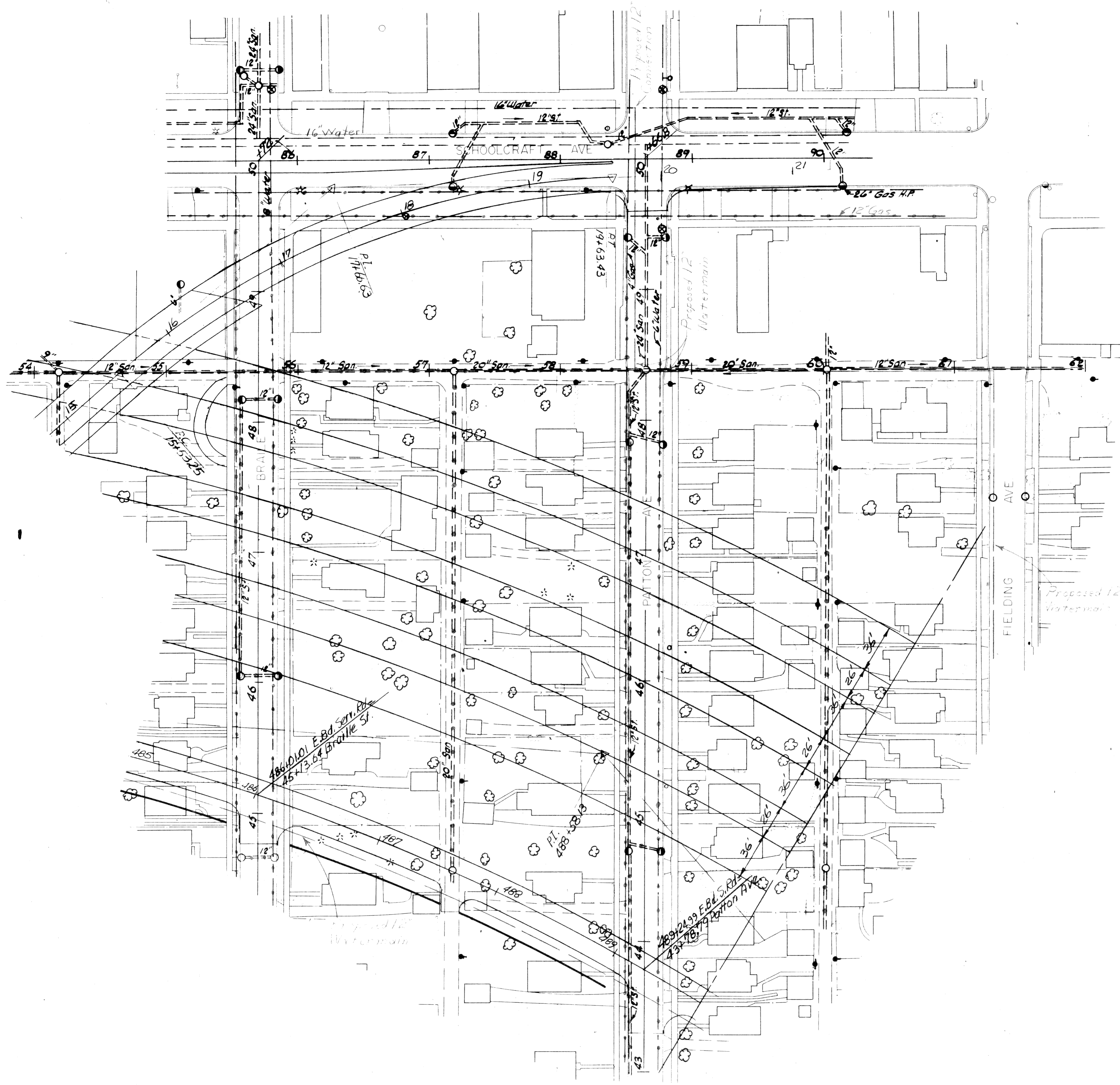
482'x105' E. Bd. Ser. v. Rd.
75'x104'91" Pierson St.

8/20/38

Utility Sheet

FILE NO.	STATE	FEDERAL	SHEET
NO. 350	PROJECT	PROJECT	NO.
82122JK			4

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
4-96	82122K	Wayne	Detroit		
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS



8/20/60

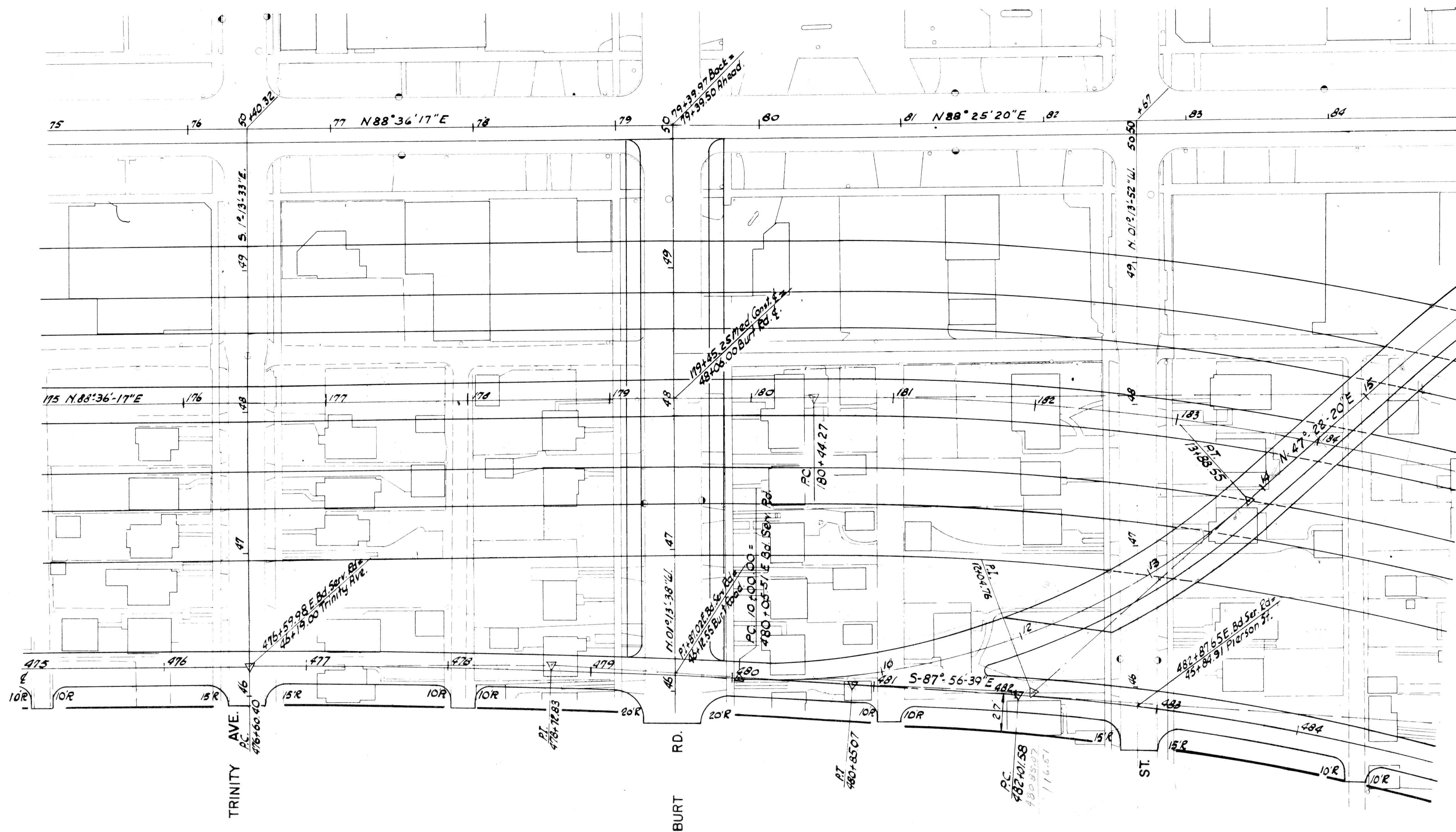
Utility Sheet

FILE NO. 82122 K	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
------------------	---------------	-----------------	-----------

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

STATION EQUATION Survey &
 Sta. 79+39.97 Survey & Back-
 Sta. 79+39.50 Survey & Ahead.
 Line lengths 0.47



Curve Data
 Curve # 7E
 $\Delta = 4^{\circ} 14' 48''$ Rt
 $D = 1^{\circ} 00' 00''$
 $R = 5720.58$
 $T = 212.43$
 $L = 424.67$
 $E = 3.92$
 $PC = 476+60.40$
 $PI = 478+72.83$
 $PT = 480+85.07$

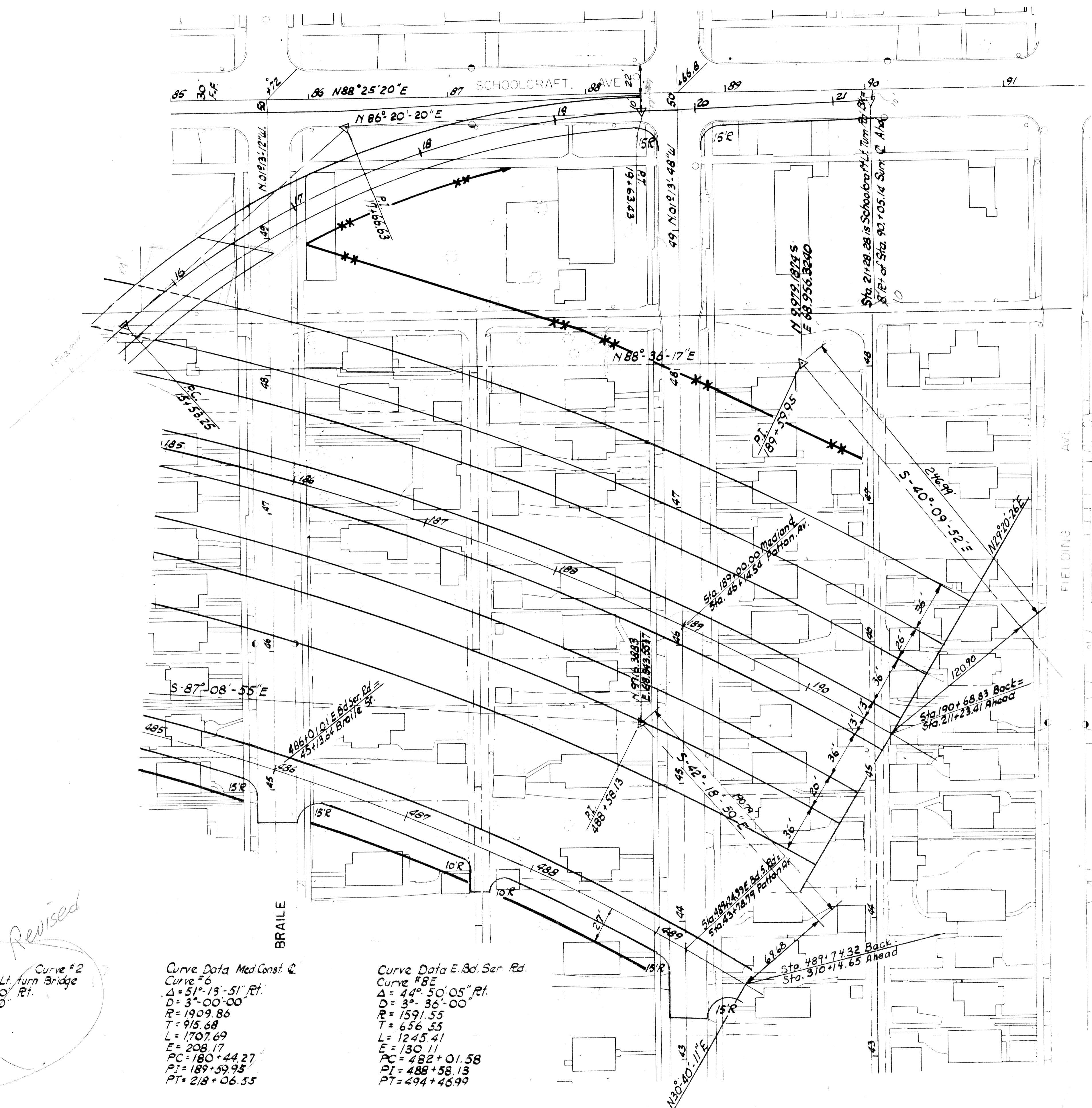
Curve Data Curve #1
 E 8d Schoolcraft Crossover
 $\Delta = 44^{\circ} 41' 01''$ Lt
 $D = 11^{\circ} 30' 00''$
 $R = 498.22$
 $T = 204.76$
 $L = 388.55$
 $E = 40.44$
 $PC = 10+00.00$
 $PI = 12+04.76$
 $PT = 13+88.55$

656.55
 116.51
 773.06

Handwritten note: 513-87222

Handwritten note: 4/2/11

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



Revised

Curve Data Curve #2
 Schoolcraft Lt. Turn Bridge
 $\Delta = 36^\circ 58' 00''$ Rt.
 $D = 9^\circ 30' 00''$
 $R = 603.11'$
 $T = 213.38$
 $L = 410.18$
 $E = 36.63$
 $PC = 15+53.25$
 $PT = 17+66.63$
 $PI = 19+63.43$

Curve Data Med Const. Q
 Curve #6
 $\Delta = 51^\circ 13' 51''$ Rt.
 $D = 3^\circ 00' 00''$
 $R = 1909.86$
 $T = 915.68$
 $L = 1707.69$
 $E = 208.17$
 $PC = 180+44.27$
 $PT = 189+59.95$
 $PI = 218+06.55$

Curve Data E. Bd. Ser. Rd.
 Curve #8E
 $\Delta = 44^\circ 50' 05''$ Rt.
 $D = 3^\circ 36' 00''$
 $R = 1591.55$
 $T = 656.55$
 $L = 1245.41$
 $E = 130.11$
 $PC = 482+01.58$
 $PT = 488+58.13$
 $PI = 494+46.99$

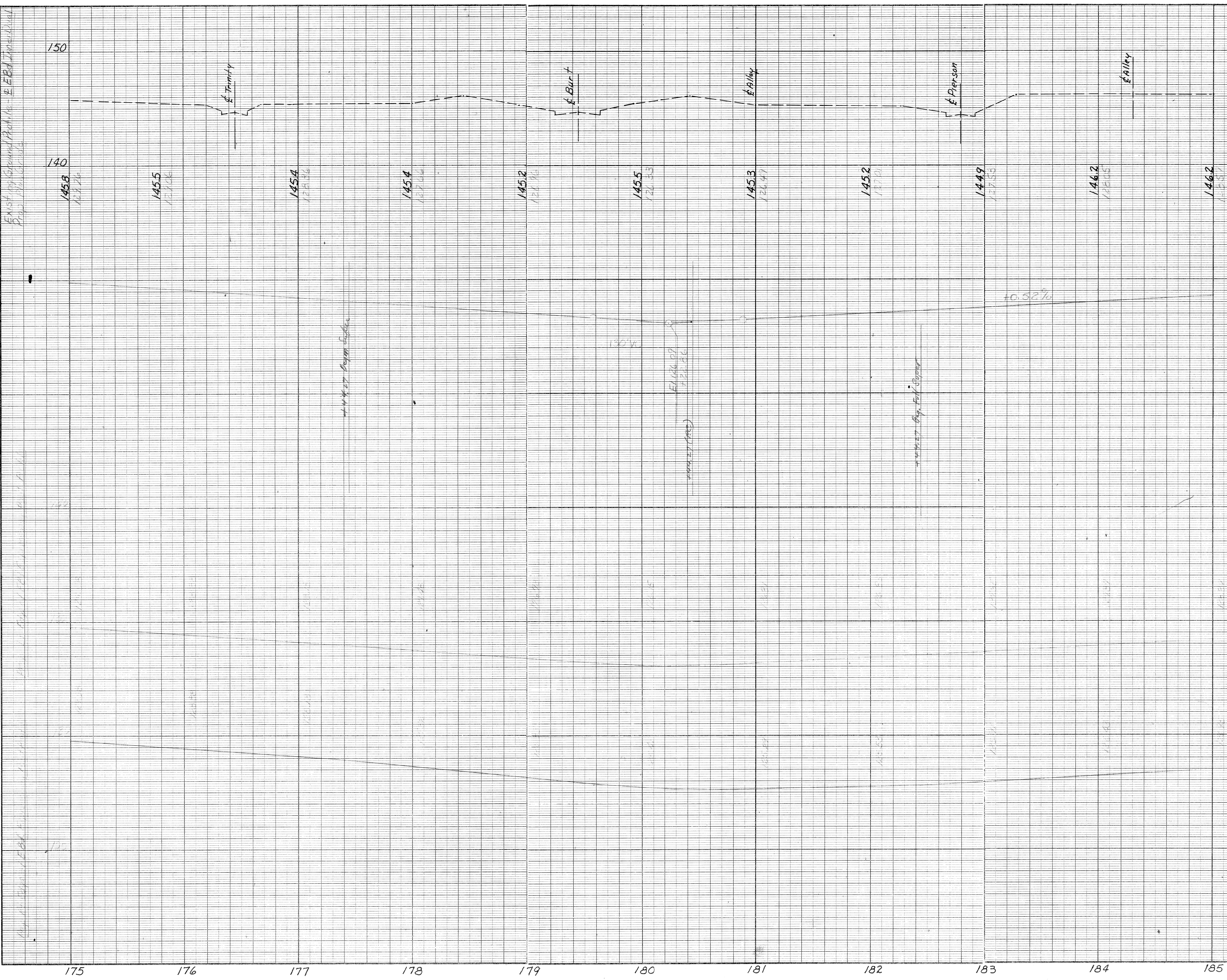
20817

8/21/00

S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
I-96	B2122J	Wayne	Detroit		
S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PROFILE PLOTTED		
PROFILE CHECKED		
QUANTITIES CHECKED		
DESIGNER'S CHECK		
FEDERAL INSPECTION		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
FINAL R.O.W. CHECK		
QUANTITIES CHECKED		
SQUAD		



Left Edge

Right Edge

East Bound Expressway

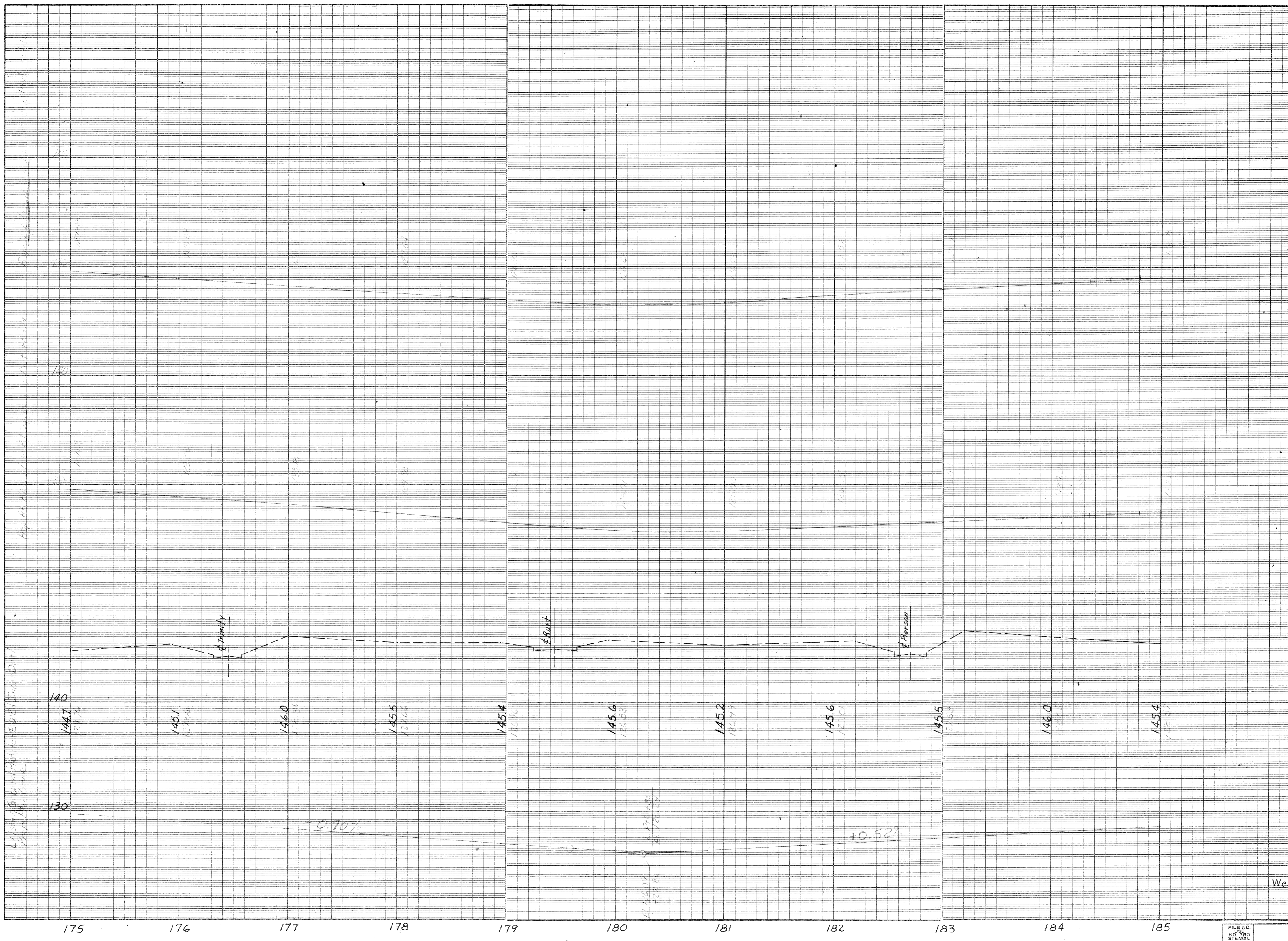
FILE NO.	DATE	SCALE	PROJECT	FEDERAL PROJECT	SHEET NO.

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

OPERATION	BY	DATE
CONVEYANCE		
PLAN PLOTTED		
PLAN CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIMINARY GRADE		
GRADE INSPECTION		
FEDERAL INSPECTION		

OPERATION	BY	DATE
PRELIMINARY Q. W. CHECKED		
FINAL DESIGN CHECKED		
TRACED Q. W. CHECK		
QUANTITIES CHECKED		
SQUAD		



Left Edge

Right Edge

8/20/60

West Bound Expressway

FILE NO. USE 150 STENCIL

STATE PROJECT	FEDERAL PROJECT	SHEET NO.

TRINITY

BURT RD.

Curve Data
 $\Delta = 4^{\circ}14'48''$
 $D = 1^{\circ}00'00'' (1:1)$
 $R = 5729.58'$
 $T = 212.43'$
 $L = 434.67'$
 $E = 3.94'$

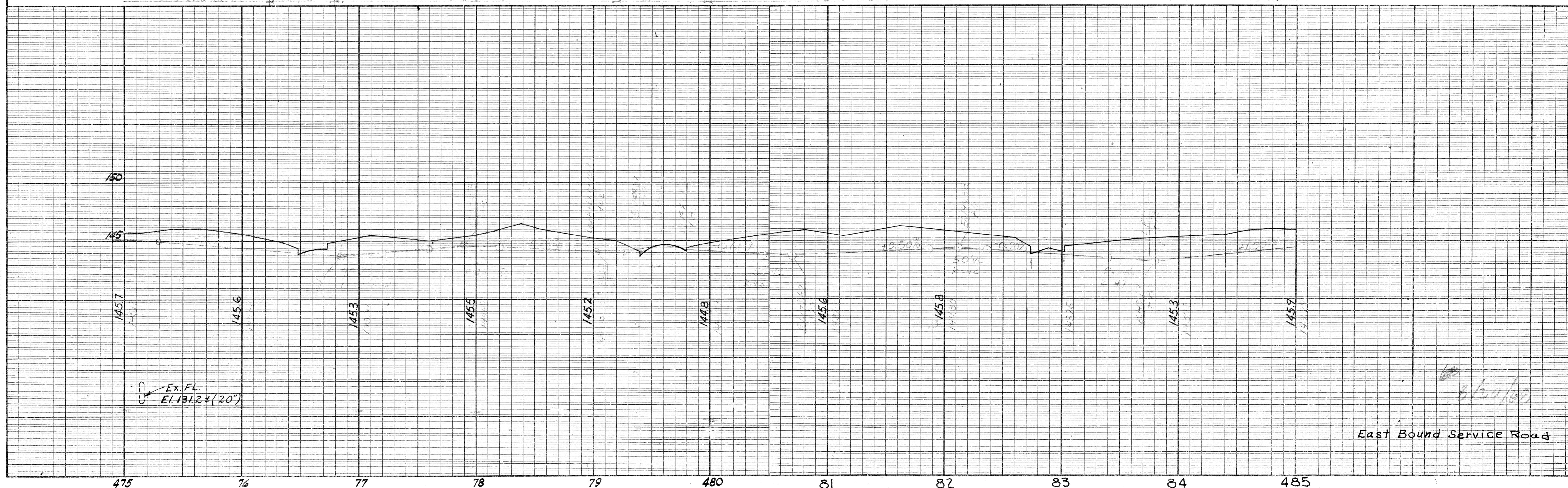
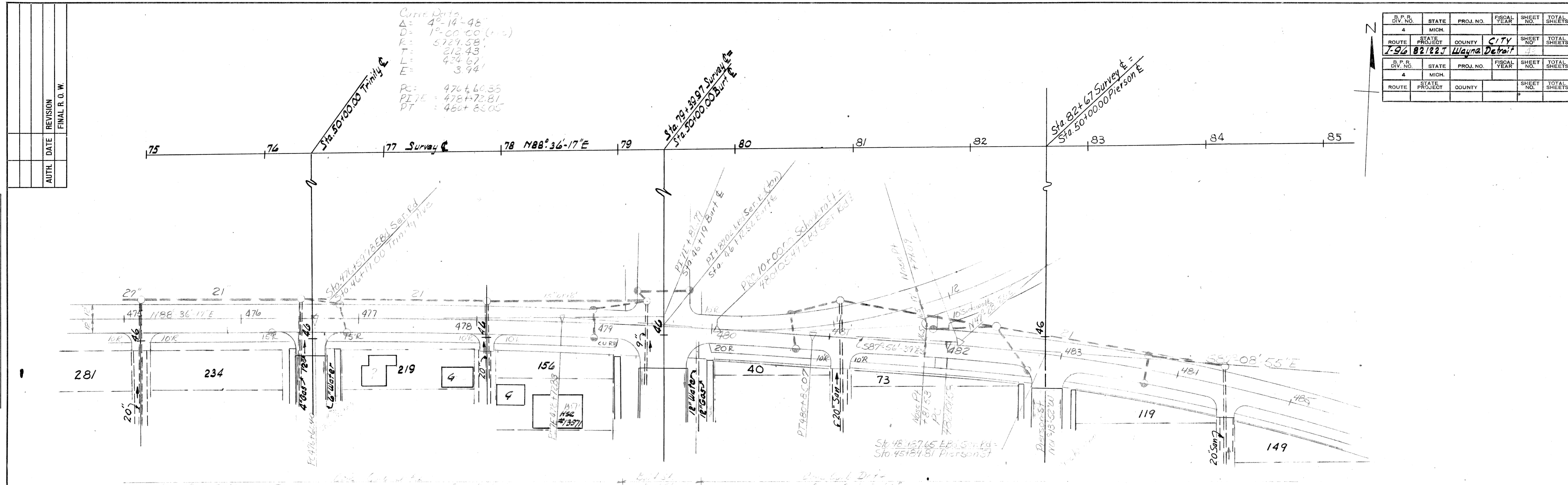
PC: 476+60.55
 PITE: 478+72.81
 PT: 480+88.00

R.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
1-96	82122J	Wayne	Detroit		

R.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

OPERATION	DATE	REVISION	FINAL R.O.W.

OPERATION	DATE
PRELIMINARY R.O.W. CHECKED	
FINAL DESIGN CHECKED	
FINAL R.O.W. CHECK	
QUANTITIES CHECKED	
SUAVE	



OPERATION	DATE
SURVEYED	
PLAN PLOTTED	
PLAN CHECKED	5-46
PROFILE CHECKED	5-46
PRELIMINARY GRADE	5-60
GRADE INSPECTION	5-60
FEDERAL INSPECTION	

East Bound Service Road