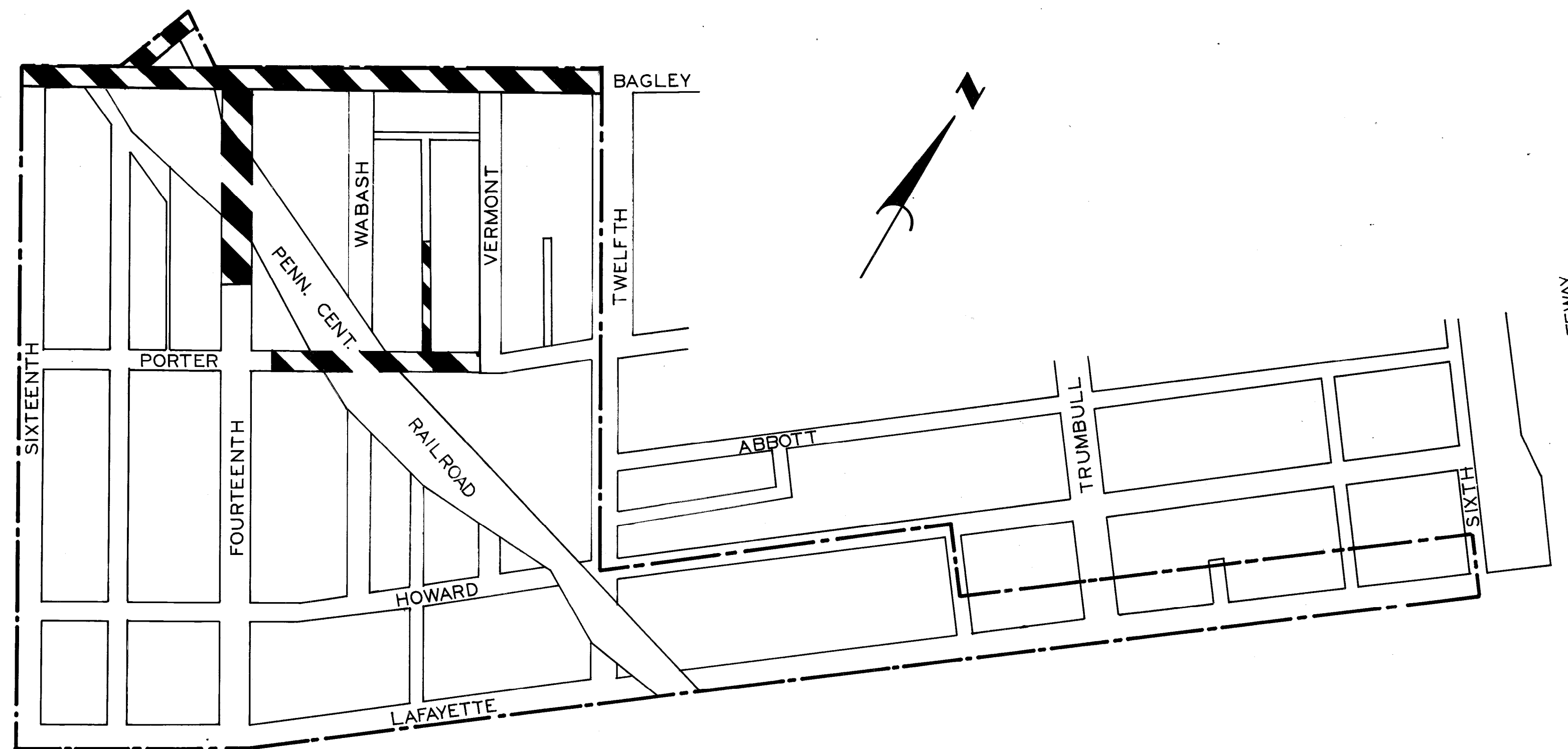


CITY OF DETROIT
CITY ENGINEERING DEPARTMENT

PLANS FOR PROPOSED
BAGLEY AVE.
BRIDGE AND PAVEMENT CONSTRUCTION
REMOVAL OF EXISTING BRIDGES AND UTILITY RELOCATION
WEST SIDE INDUSTRIAL
REHABILITATION PROJECT NO.2 MICH. R-97
FOR
COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT



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63-93.	DETAILS
94.	P.L.C. QUANTITY SHEET
95.	SEWER ALTERATIONS
96.	QUANTITY SHEET (PAVING, LANDSCAPING, WATER AND SEWER)

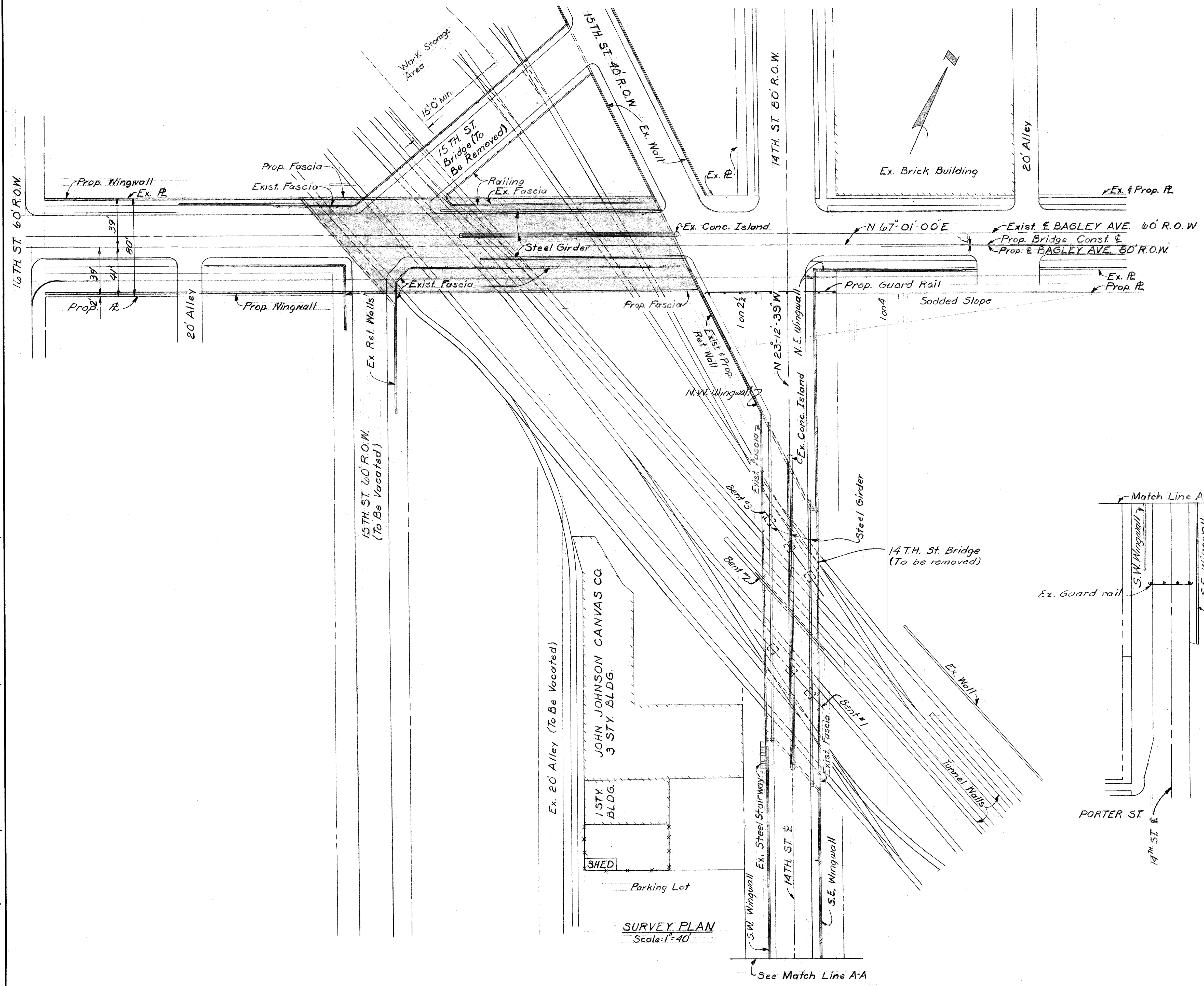
A.O. 1865 A

PROJECT: BRIDGE AND PAV'T. CONST., REMOVAL OF EX. BRIDGES AND UTILITY RELOCATION FOR BAGLEY	CONTRACT NO. <p style="text-align: center; font-size: 1.2em;">PW 6552</p>
----------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

PLANS PREPARED BY
CITY ENGINEERING DEPARTMENT

RECOMMENDED FOR APPROVAL	<i>R. C. Monahan</i>	4-27-76 DATE
RECOMMENDED FOR APPROVAL	<i>Allen E. Payne</i>	4-26-76 DATE
APPROVED	<i>J. G. Gault</i>	4-27-76 DATE
APPROVED	<i>William W. Kelly</i>	4-27-76 DATE

CONSTRUCTION AREA



GENERAL NOTES

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 this work has been started. See staging drawing sp. #4, for demolition details of Bagley Ave. and Fifteenth St. Bridges.

Fourteenth street Bridge demolition details: Major concern with the Fourteenth street Bridge demolition is to protect the 4'-6" x 6'-0" sewer that is to remain in service. Any damage occurring during demolition is to be repaired by the contractor. Inspection and approval of demolition procedure around the sewer will be by the Detroit Metro. Water Department.

Remove the bridge superstructure.
Remove the southeast and southwest wingwalls to 3 feet minimum below adjacent alley grades. Remove the south abutment to 2 feet min. below existing railroad grade.

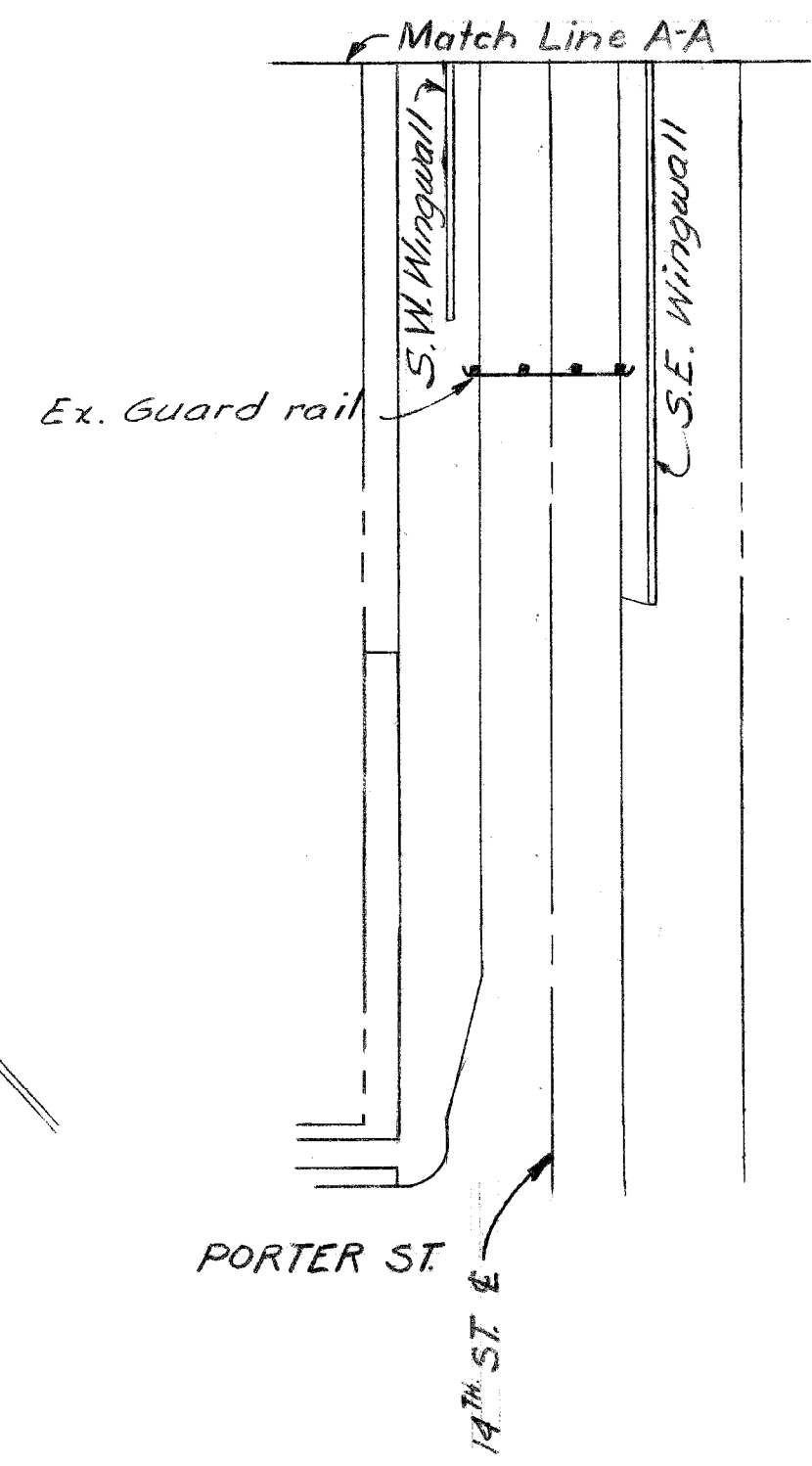
Remove the south approach pavement, curbs, sidewalks, stairs, and fill from the south abutment to the existing guard rail at the end of the south bridge approach down to adjacent ground elevation. Provide a finished grade for drainage away from the existing building.

Remove the north abutment, the remaining portion of the northwest wingwall and the northeast wingwall to 2 feet min. below adjacent ground elevation.

Remove the north approach pavement, curbs, sidewalks, and fill from the north abutment to the south curb line of Bagley Ave.

PLC. duct run in Fourteenth Street bridge must remain in service until Bagley bridge is completed and P.L.C. lines are transferred.

Remove the pier bents as follows:
Bent #2 to top of tunnel wall,
Bent #1 to 2'-6" below existing ground elev. & bent #3 to 3'-6" below existing ground elev.



SURVEY PLAN Scale: 1"=40'

DESIGNED BY <i>Mc Guire</i>		APPROVED: STRUCTURAL ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	WEST SIDE INDUSTRIAL REHABILITATION PROJECT #2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.	SHEET 2 OF 36 SHEETS	
DRAWN BY <i>J.E.W.</i>		HEAD CIVIL ENGINEER				CONTRACT NO. <i>PH 6552</i>	DRWG No. <i>S1</i>
CHECKED BY <i>B. COMLY</i>		CIVIL ENGINEER				DATE <i>10-75</i>	
COORD.	DESCRIPTION	DRW.	CHKD.	APVD.	DATE		
REVISIONS LOCATED BY COORDINATES ON SHEET							

STAGE CONSTRUCTION DETAILS

Stage I: By M.B.T. - Relocate facilities in the existing Bagley street bridge deck to the underground run.

Stage II: Remove & excavate the existing superstructure, substructure and pavements to the approximate limits as shown on "Plan A". Major concerns are that the existing 24" gas main on the north side of the 15th Street bridge and the existing M.B.T. ducts, about 10' south of the north R of Bagley and under the railroad bed, are not to be disturbed. Deviations from the proposed limits for demolition will be allowed with the approval of the Engineer.

Stage III: Build the south half of all substructure units and the southwest and southeast wingwalls. Drive temporary steel sheet piling, with adequate bracing as shown on "Plan B". Erect structural steel as shown on "Plan B". Backfill new abutments and wingwalls at least enough to enable placement and support of new utilities.

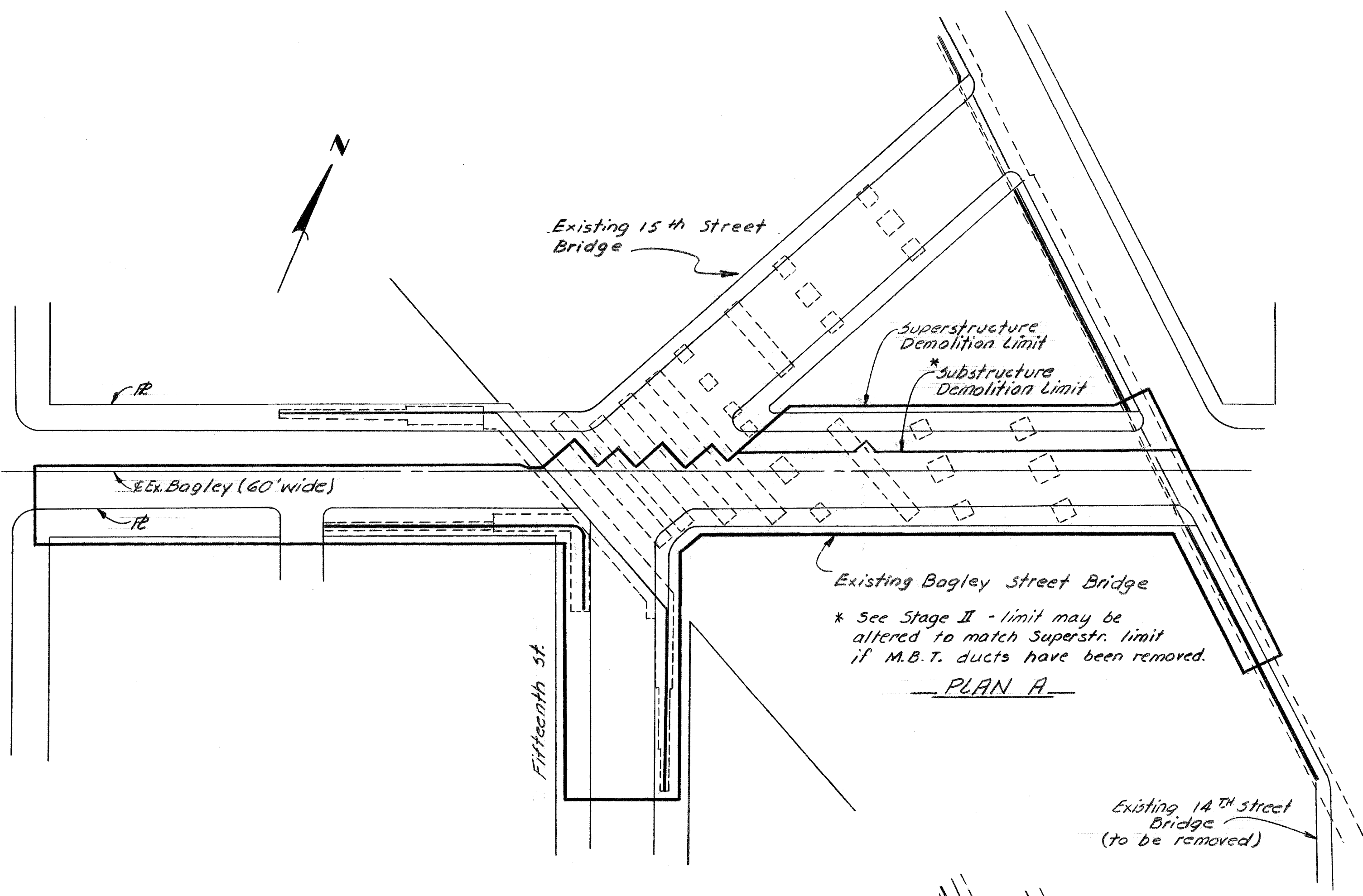
Stage IV: By M.B.T. and M.C.G.C. - Install new utility lines through the structural steel and make necessary connections to the existing lines to enable the contractor to continue demolition of remaining structure. Utility companies to remove that portion of the abandoned lines that they wish to save.

Stage V: Remove and or excavate the rest of the existing superstructure, substructure and pavements to the limits as shown on "Plan B", and build the rest of the new structure. Backfill the rest of the abutments and wingwalls. Pull temporary steel sheet piling as directed by the Engineer so as not to disturb the new utility lines in service.

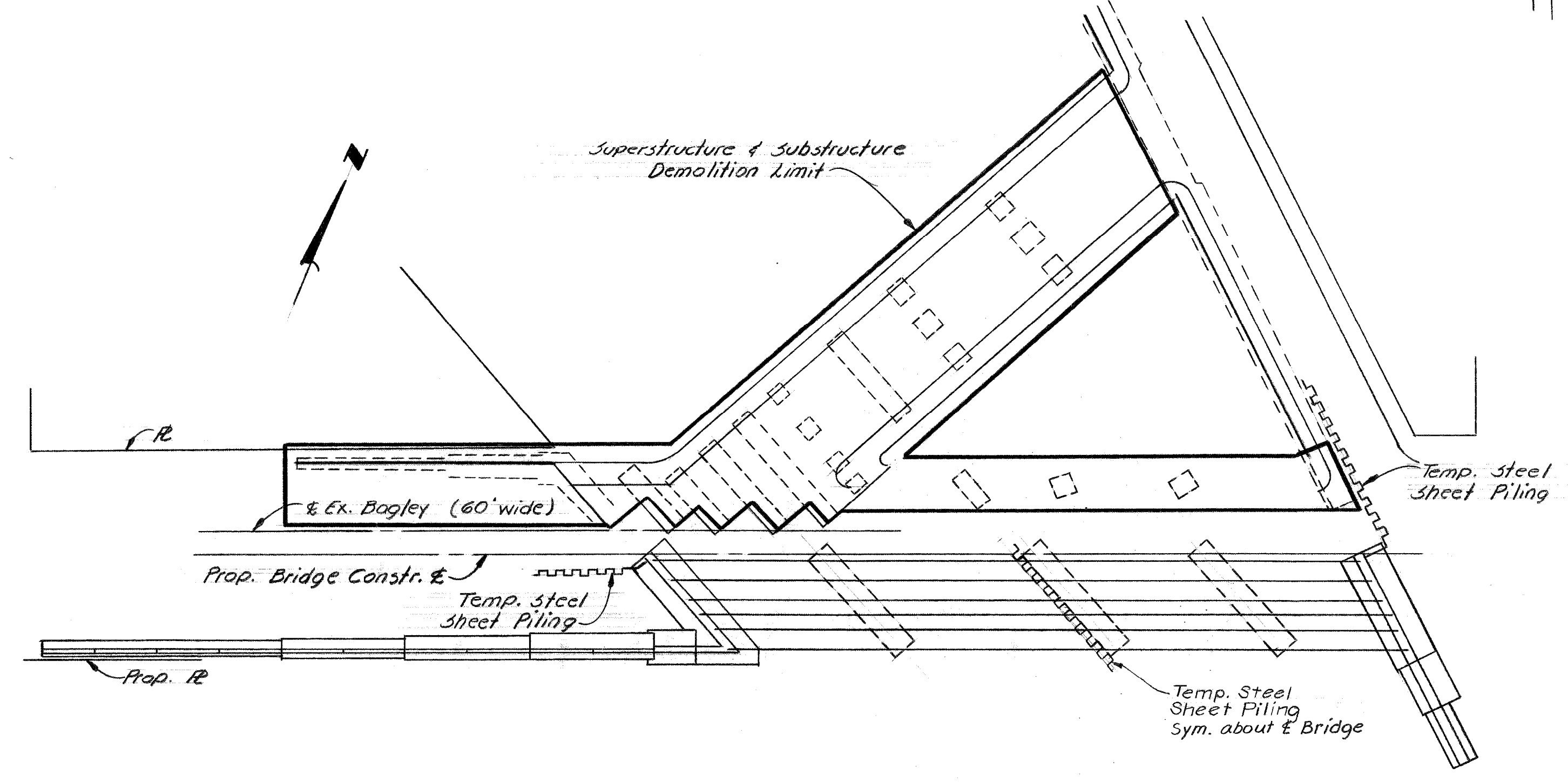
Note: Plans of the existing structures are available for inspection in the City Engineer's Office, City of Detroit. For location of existing & new utilities see sheet # 9. Gas main connections to be scheduled between May 1st. and Oct 1st. M.B.T. Co. estimates that 3 months will be required for splicing ducts from the underground run to the new bridge run.

Stage VI: Remove the Fourteenth St. bridge and the remaining portion of the wall connecting Bagley Ave. and Fourteenth St. bridges. See notes on removal of the Fourteenth St. bridge on sheet #2 of this contract.

Stage VII: Remove the Porter St. bridge. See demolition details on sheet #3 of this contract. Demolition cannot be scheduled until P.L.C. lines are transferred to Bagley Ave. Bridge.



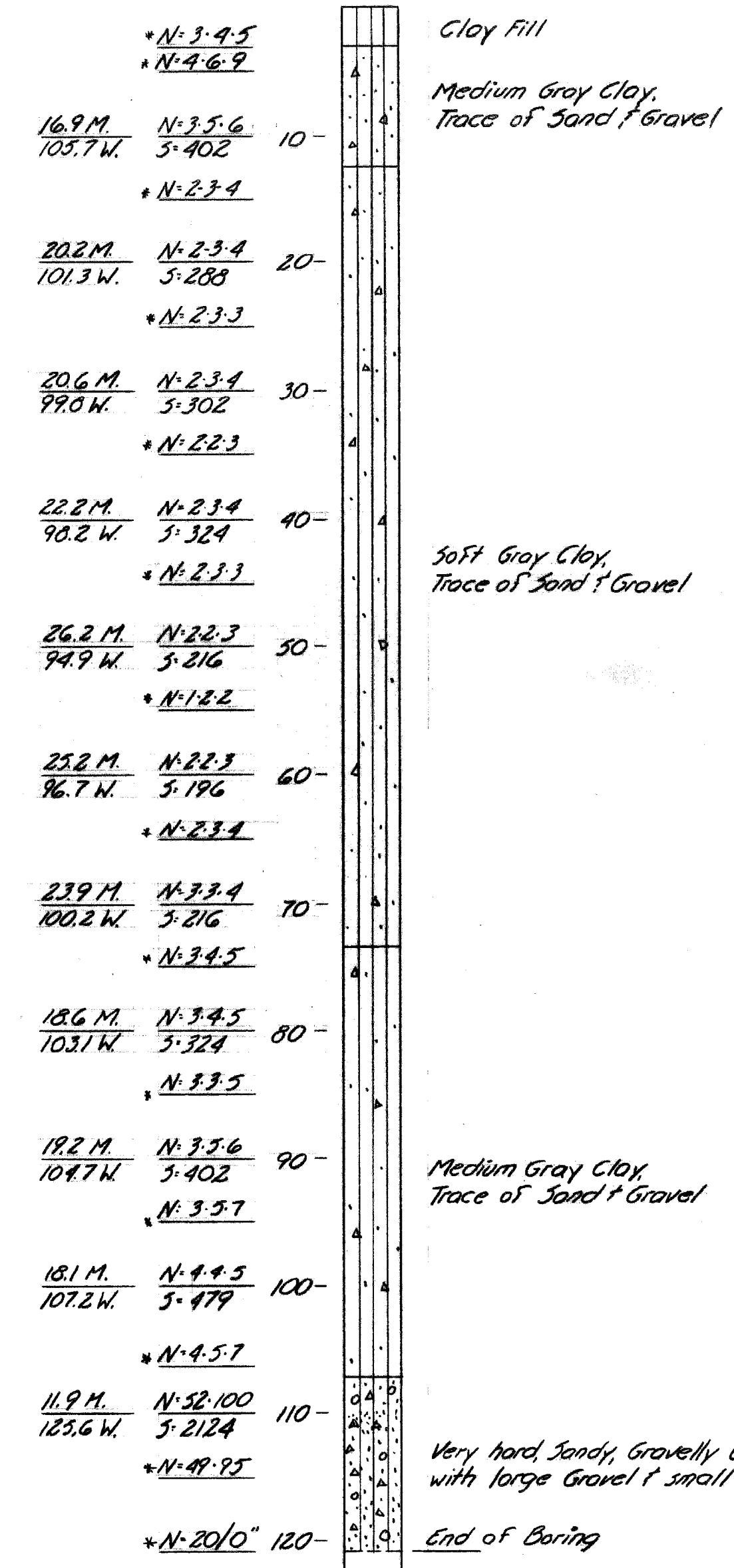
PLAN A



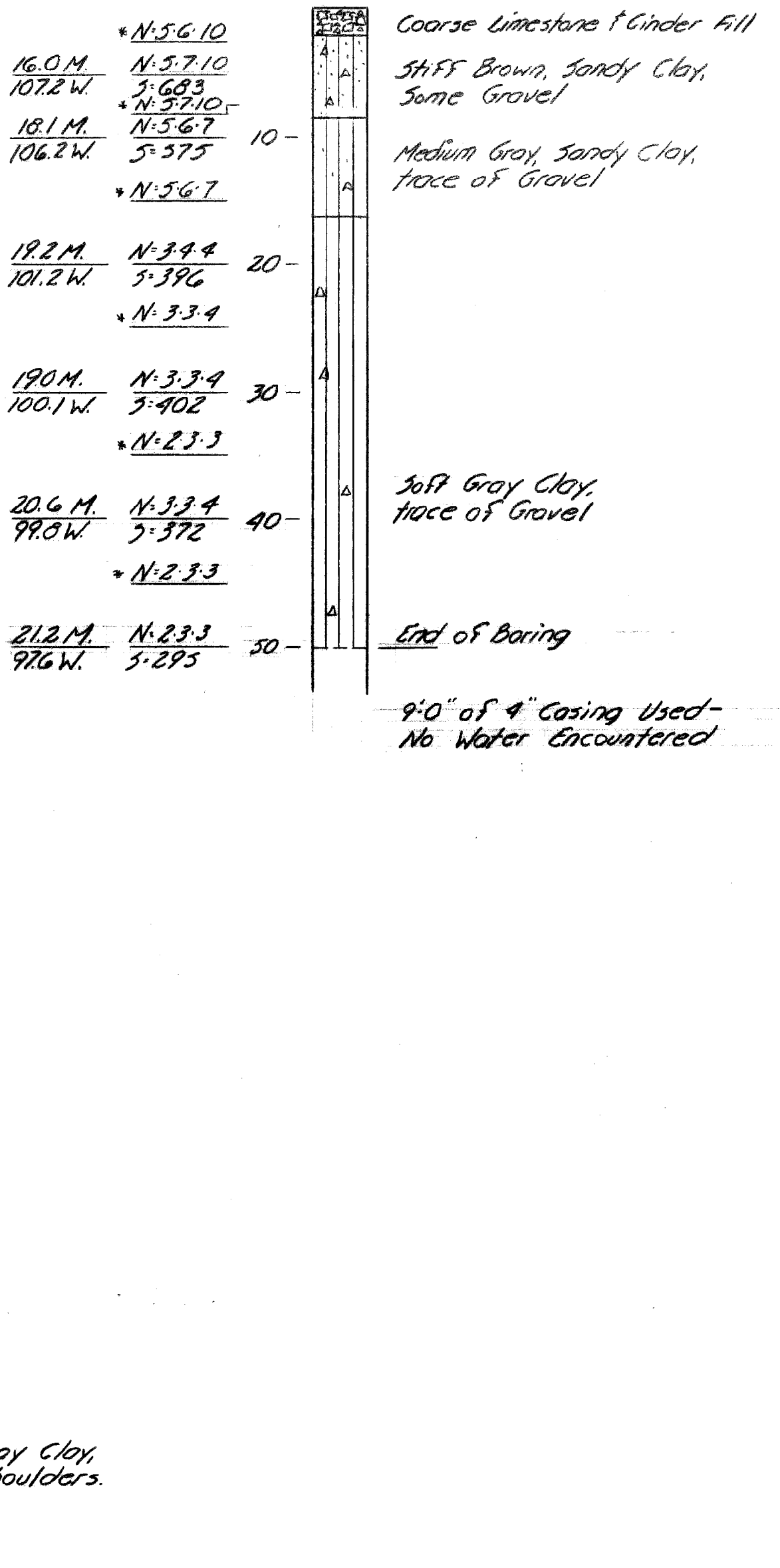
PLAN B

<table border="1"> <tr> <td>DESIGNED BY</td> <td>A.G.</td> </tr> <tr> <td>DRAWN BY</td> <td></td> </tr> <tr> <td>TRACED BY</td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td>M.C.</td> </tr> </table>		DESIGNED BY	A.G.	DRAWN BY		TRACED BY		CHECKED BY	M.C.	<table border="1"> <tr> <td>APPROVED:</td> <td></td> </tr> <tr> <td>STRUCTURAL ENGINEER</td> <td></td> </tr> <tr> <td>HEAD CIVIL ENGINEER</td> <td></td> </tr> <tr> <td>CITY ENGINEER</td> <td></td> </tr> </table>		APPROVED:		STRUCTURAL ENGINEER		HEAD CIVIL ENGINEER		CITY ENGINEER		<p>CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT</p>			<p>WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO.2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.</p>		<p>SHEET 4 OF 96 SHEETS</p>	
DESIGNED BY	A.G.																									
DRAWN BY																										
TRACED BY																										
CHECKED BY	M.C.																									
APPROVED:																										
STRUCTURAL ENGINEER																										
HEAD CIVIL ENGINEER																										
CITY ENGINEER																										
				<p>STAGE CONSTRUCTION DETAILS</p>		<p>CONTRACT No. PW 6552</p>																				
						<p>DRWG No. 53</p>																				
						<p>DATE 10-73</p>																				

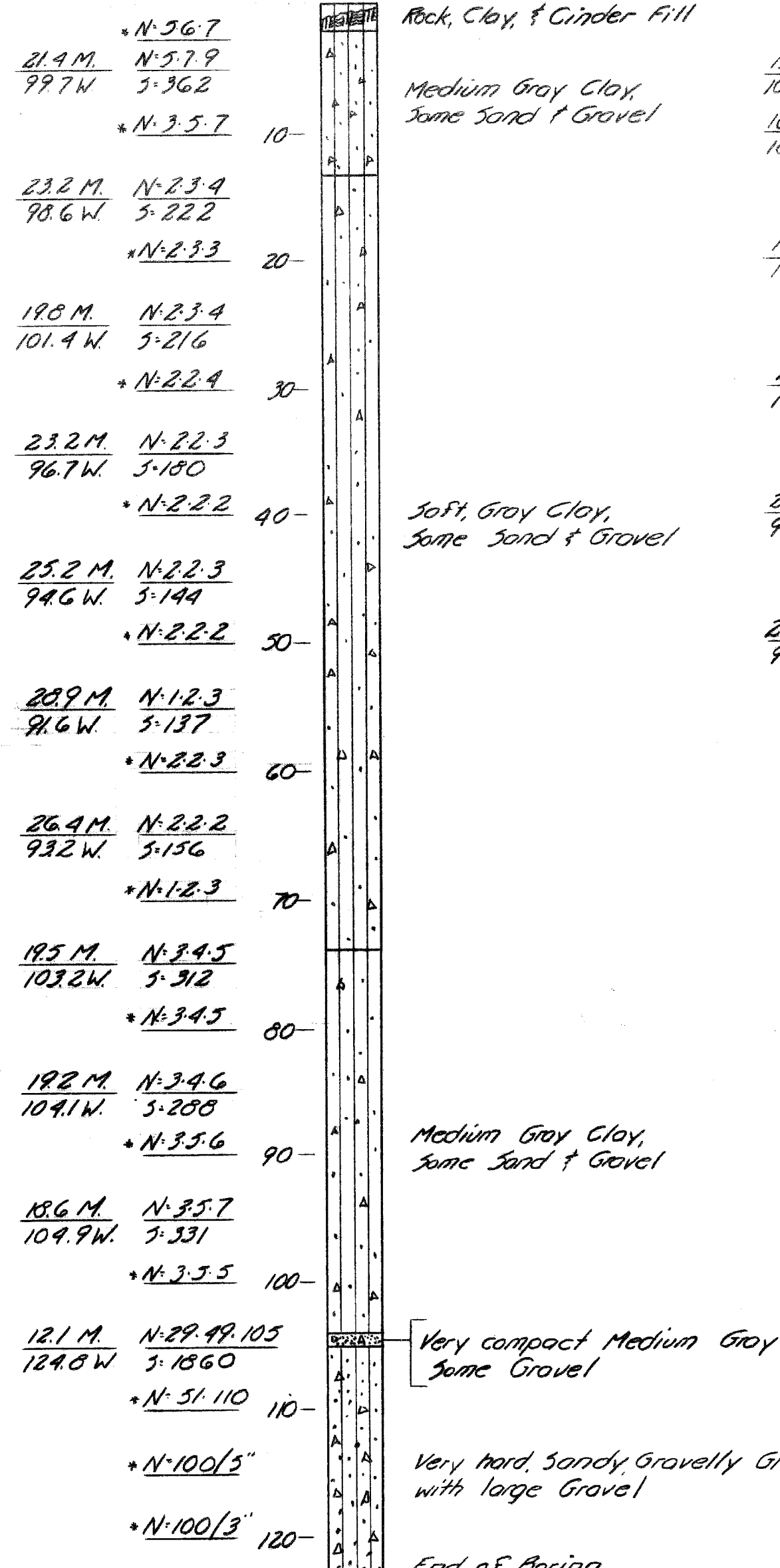
Test Hole No. 1



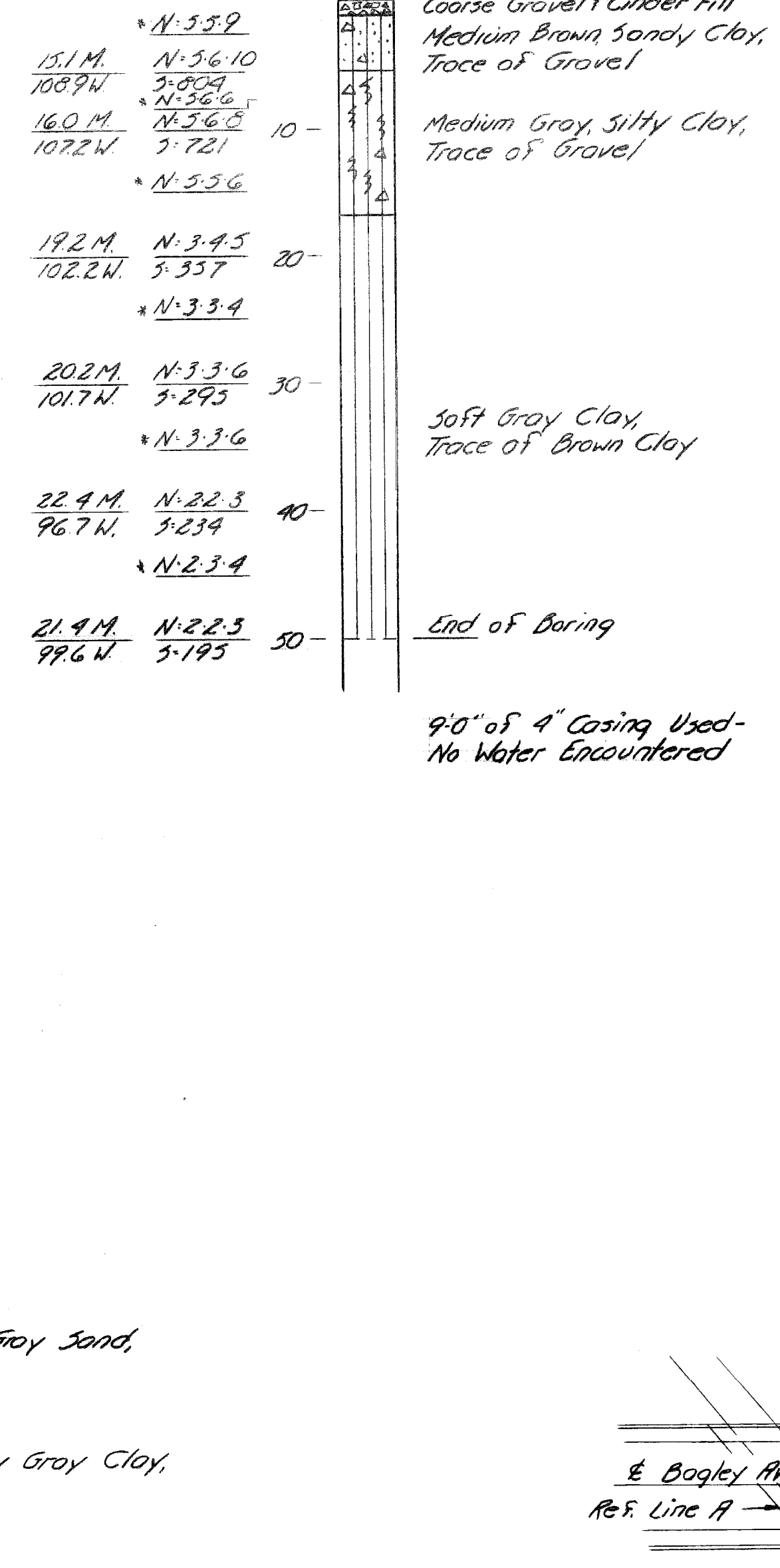
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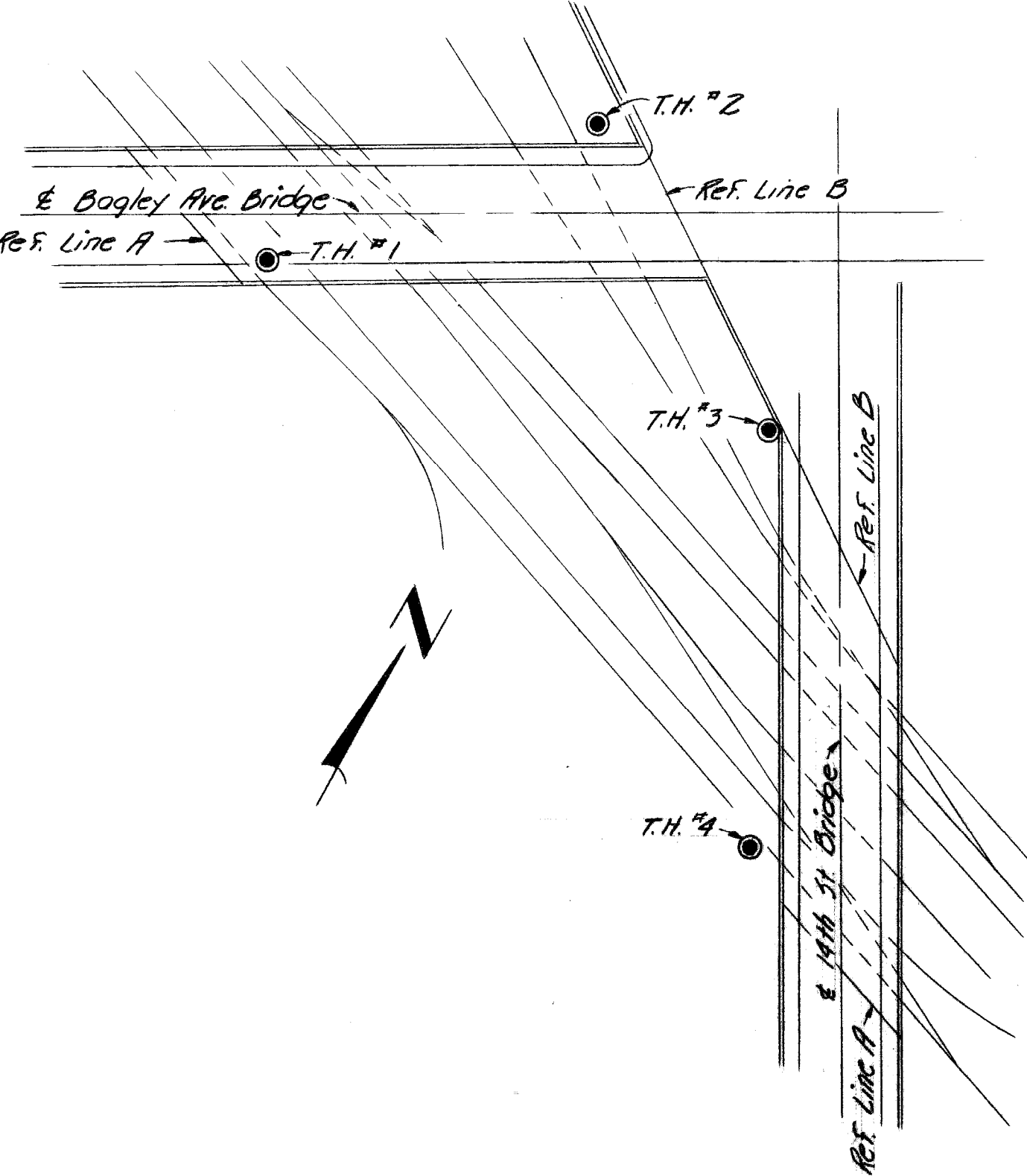
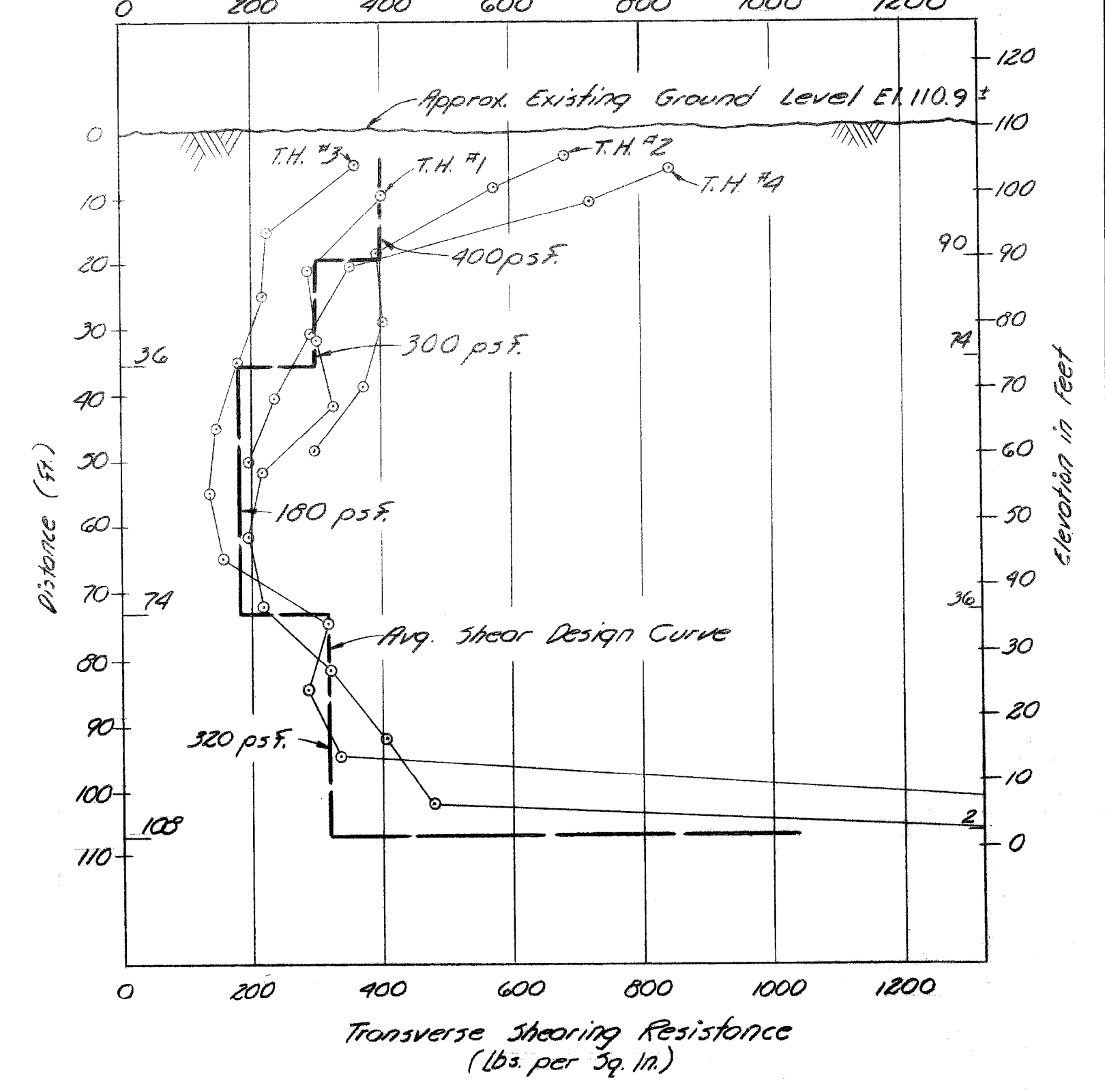
Test Hole No. 3



Test Hole No. 4

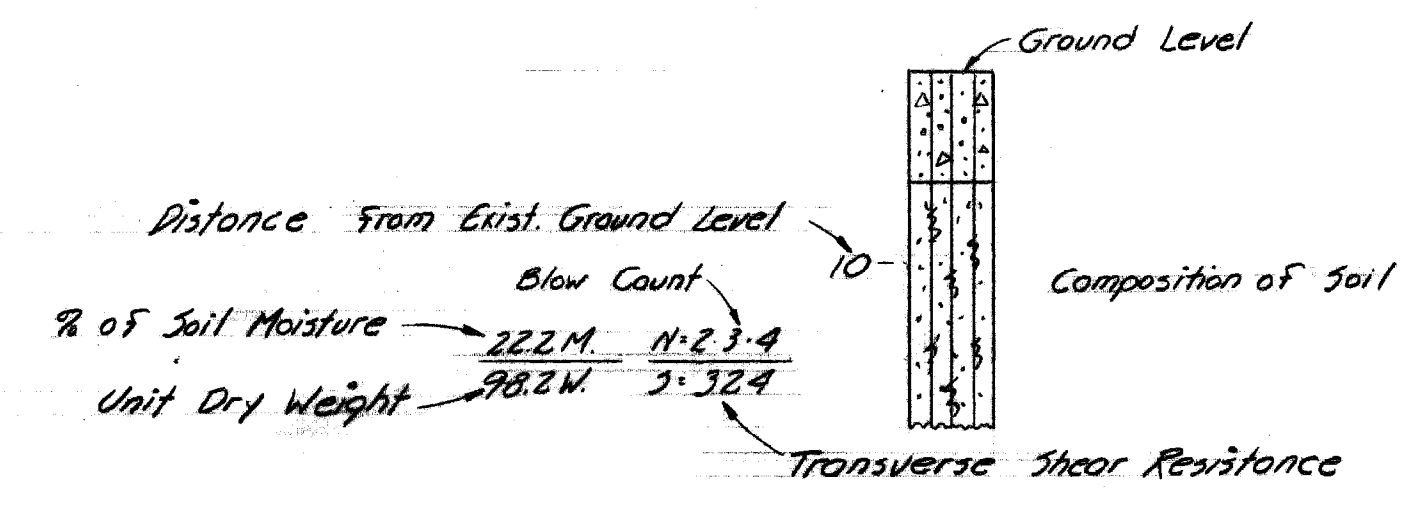


COMPOSITE TRANSVERSE SHEARING RESISTANCE CURVE



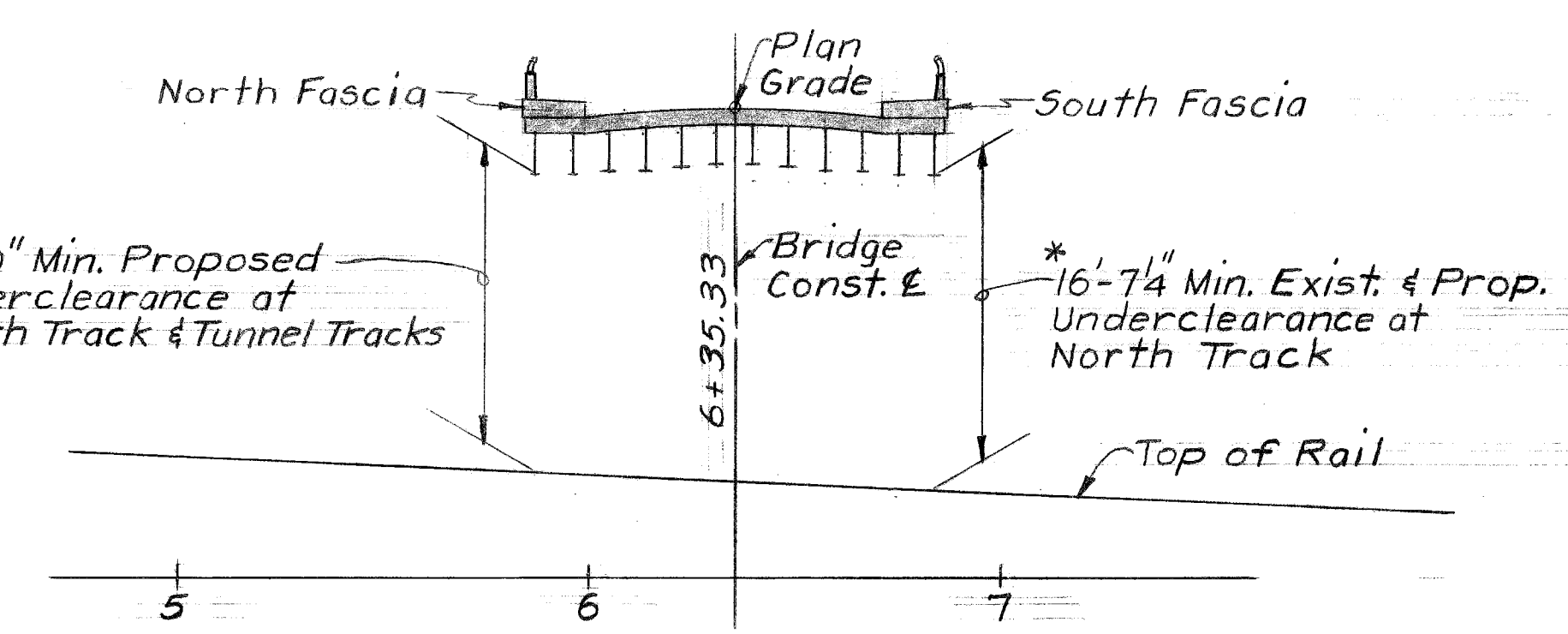
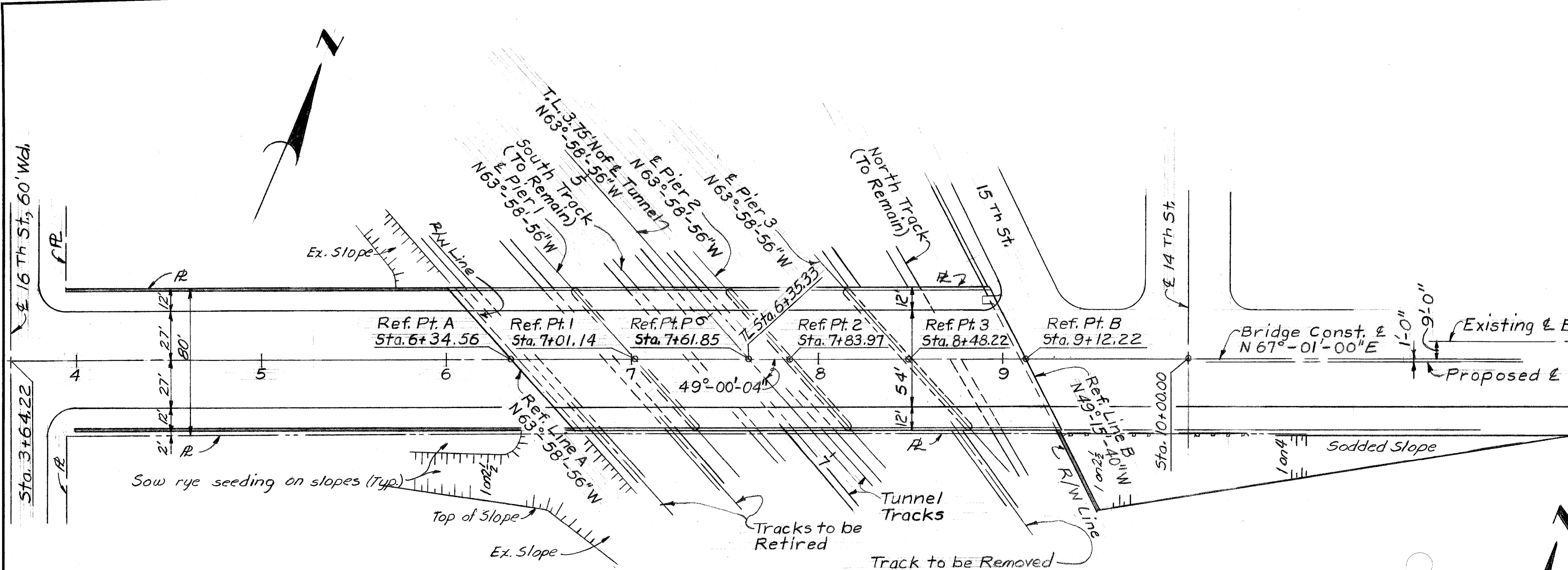
LOCATION SKETCH

NOTES:
 N - Indicates the number of blows required to drive the 2" & Sampler G (or as noted) using a 140 lb. hammer falling 30".
 S - Indicates Transverse Shearing Resistance in lbs. per Sq. Ft., as determined by M.A.S.H. Standard Test.
 M - Indicates Natural Moisture content of soil in percent.
 W - Indicates Unit Dry Weight of Soil, expressed in lbs. per Cubic Foot.
 * - Indicates no sample.
 All elevations are based on City of Detroit Datum.
 Approx. existing ground elevation 110.9 ±

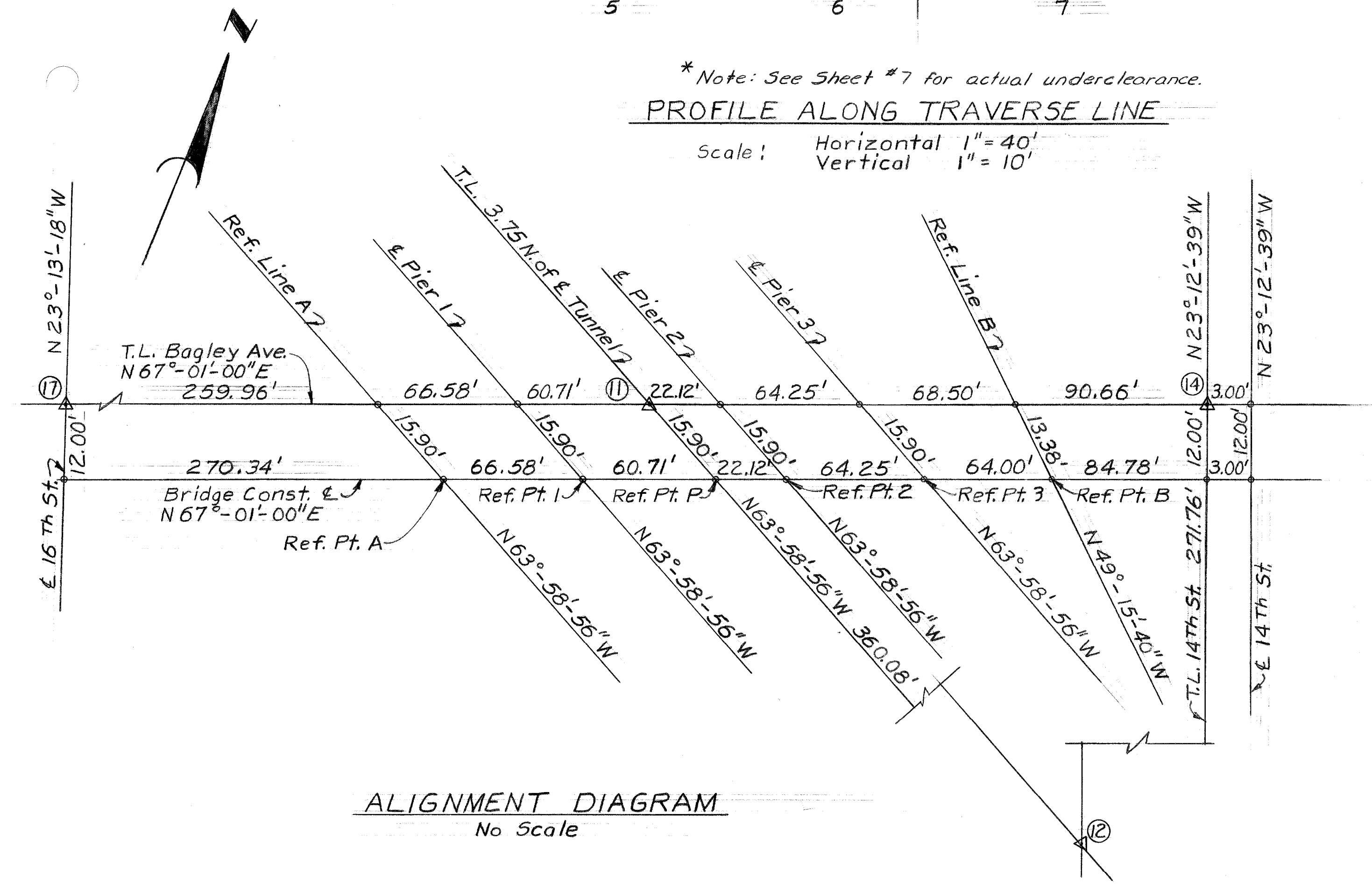
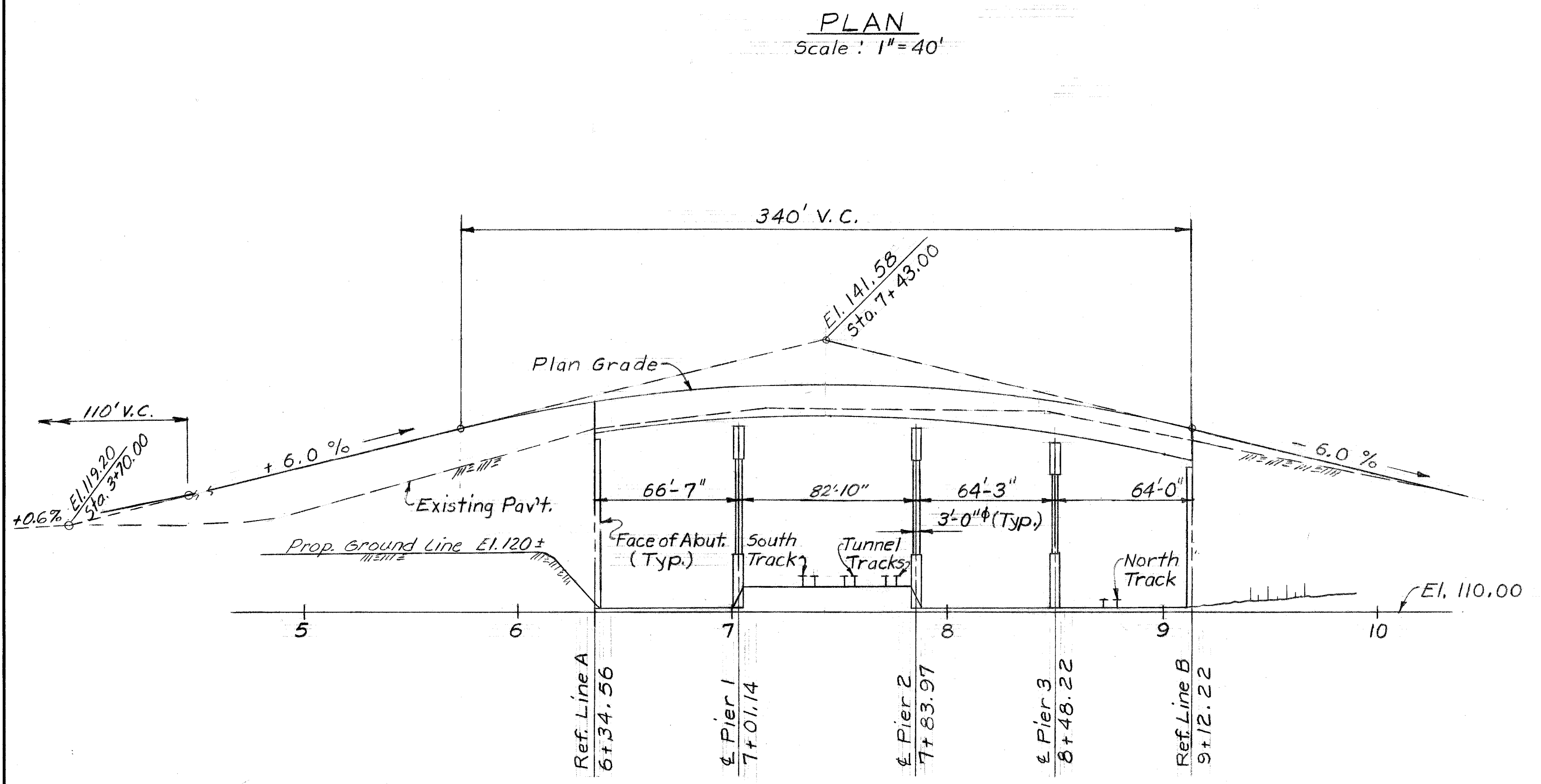


LEGEND

DESIGNED BY: <i>McGuire</i> DRAWN BY: <i>Pantek, 4/71</i> TRACED BY: CHECKED BY: <i>McGuire s/m</i>		APPROVED: STRUCTURAL ENGINEER HEAD CIVIL ENGINEER CITY ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT			WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO. 2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R. LOG OF SOIL BORINGS			SHEET 5 OF 26 SHEETS CONTRACT NO. PW 552 DRWG No. 54 DATE 10-73	
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* Note: See Sheet #7 for actual underclearance.



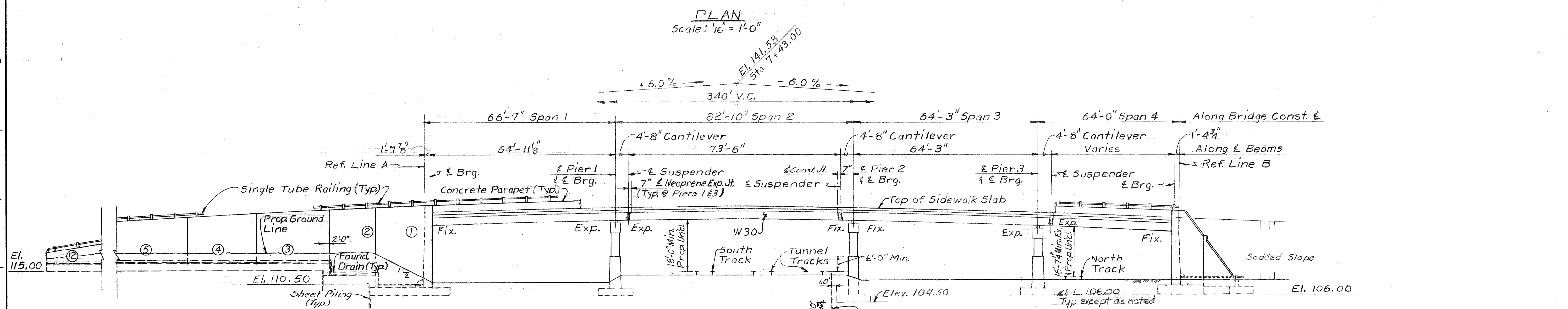
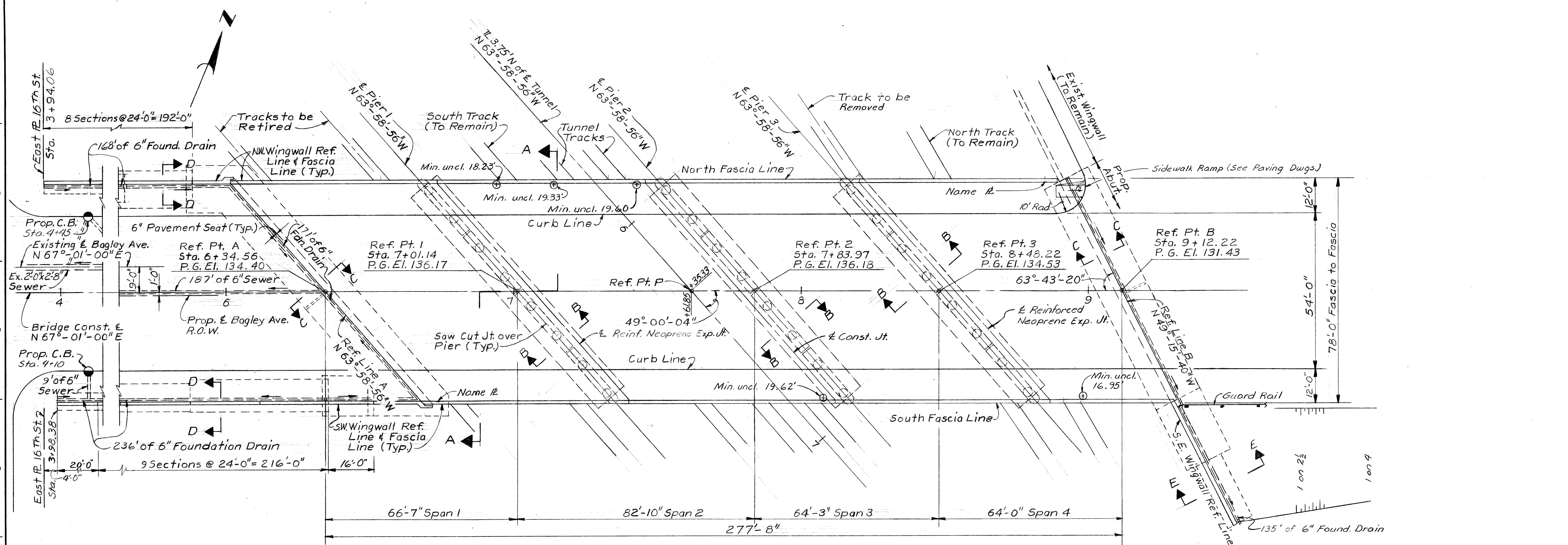
CITY OF DETROIT BENCH MARKS

Number	Location	Elevation
18-255	4' S. of N. R. Howard St. & 4' W. of E. R. 18th St.	112.323
18-255-A	4' S. of N. R. Howard St. & 4' W. of E. R. 16th St.	111.299
19-254	5' N. of S. R. Newark & 5' W. of E. R. 18th St.	103.347
19-254-A	5' N. of S. R. Newark & 7' E. of W. R. 16th St.	111.882

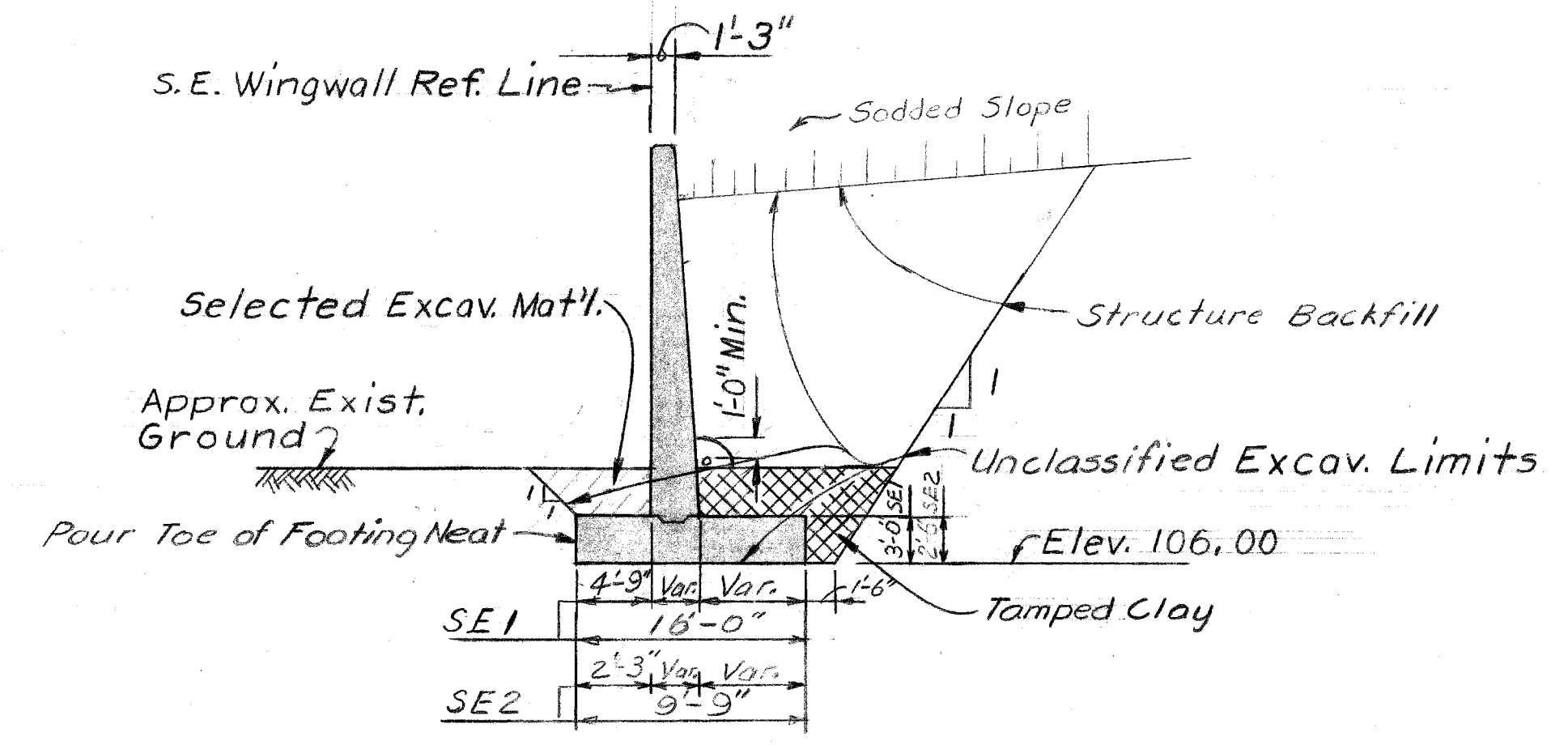
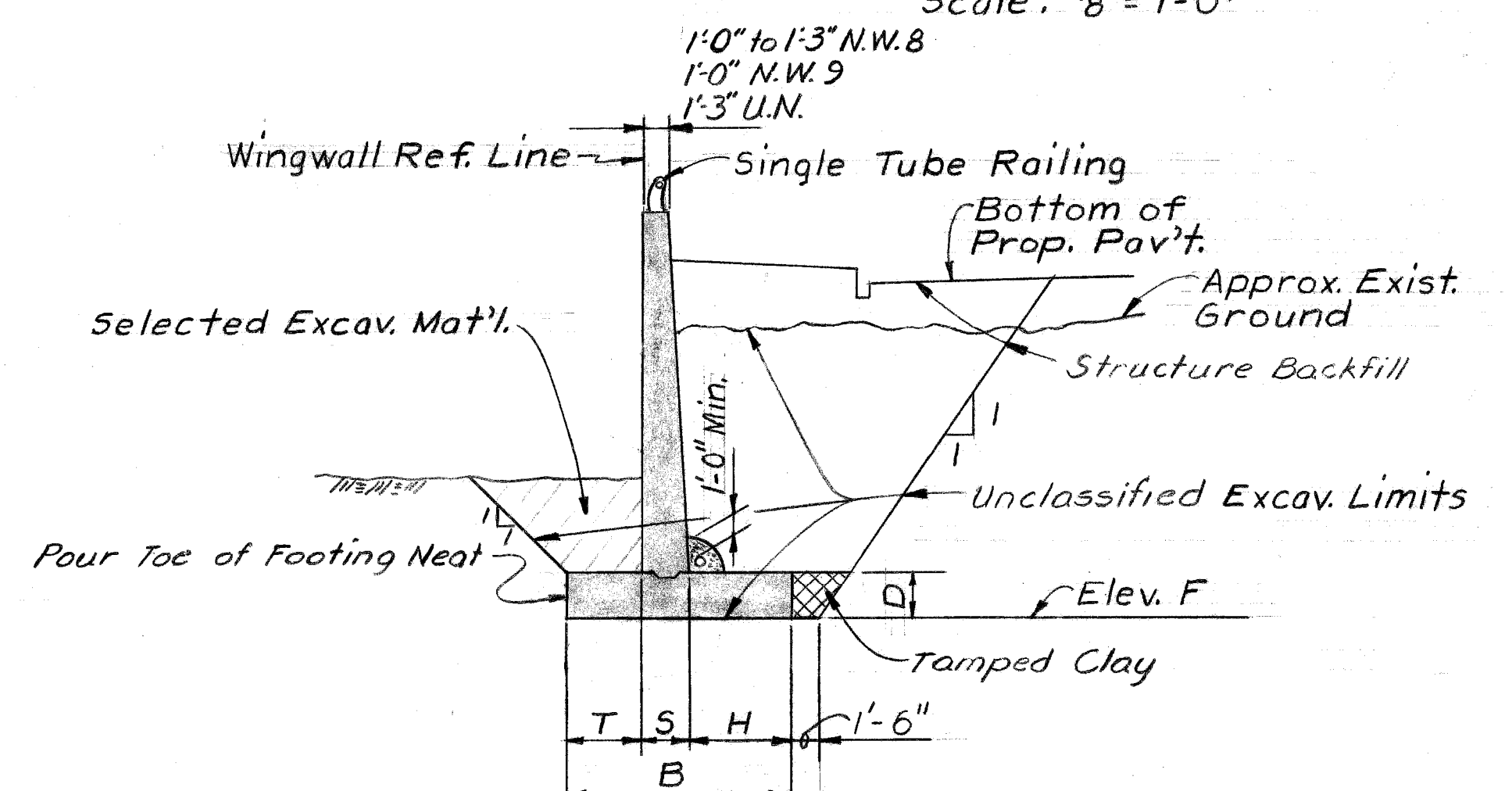
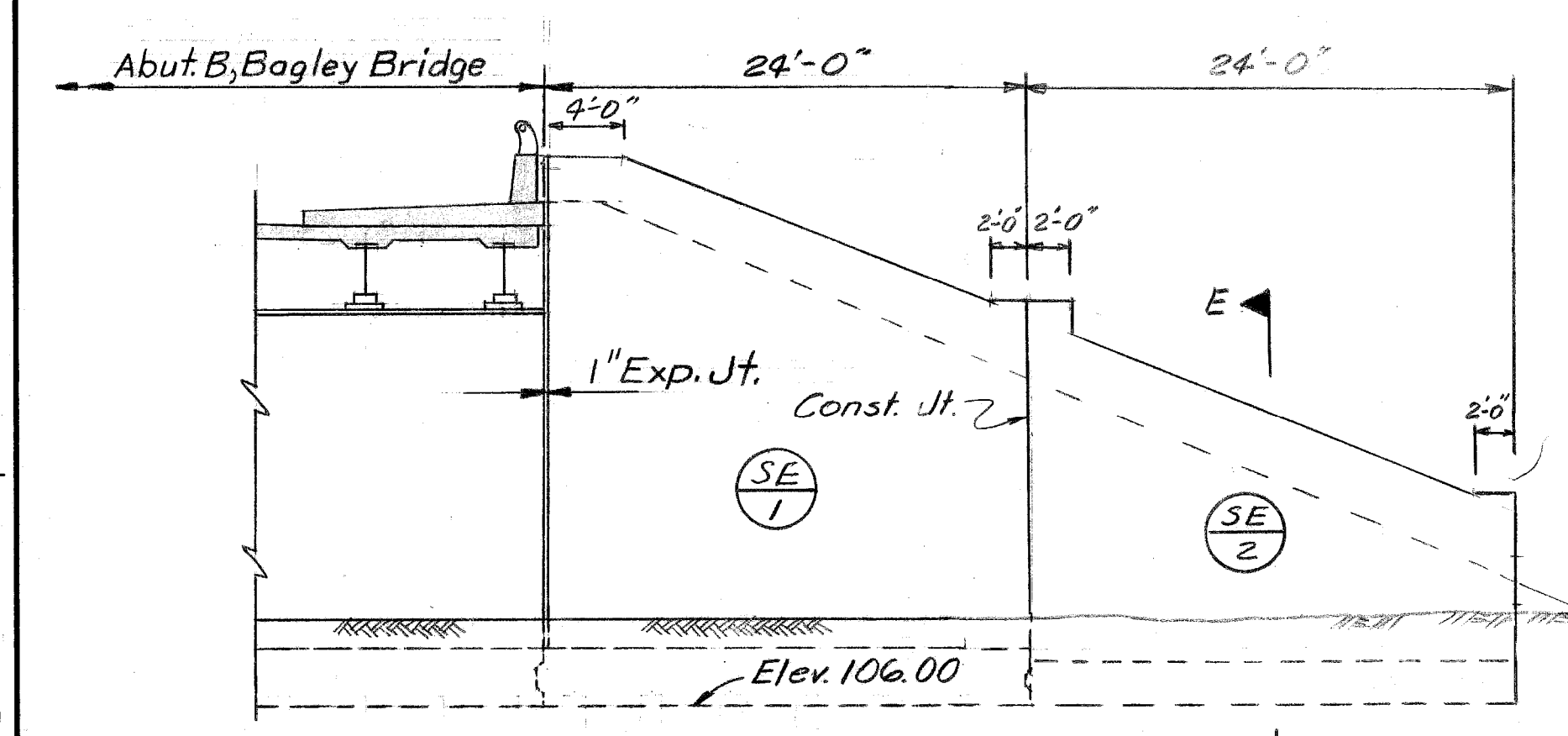
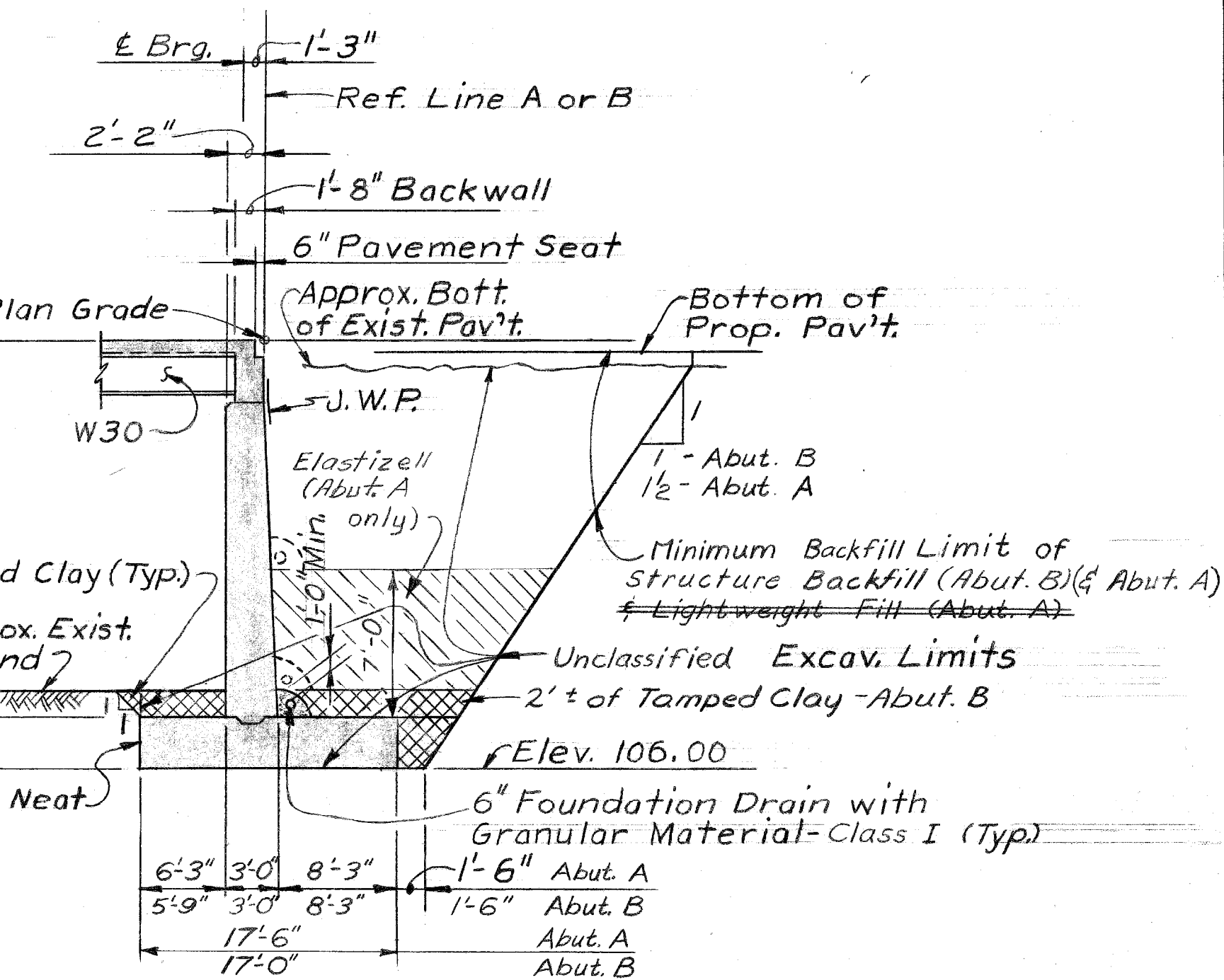
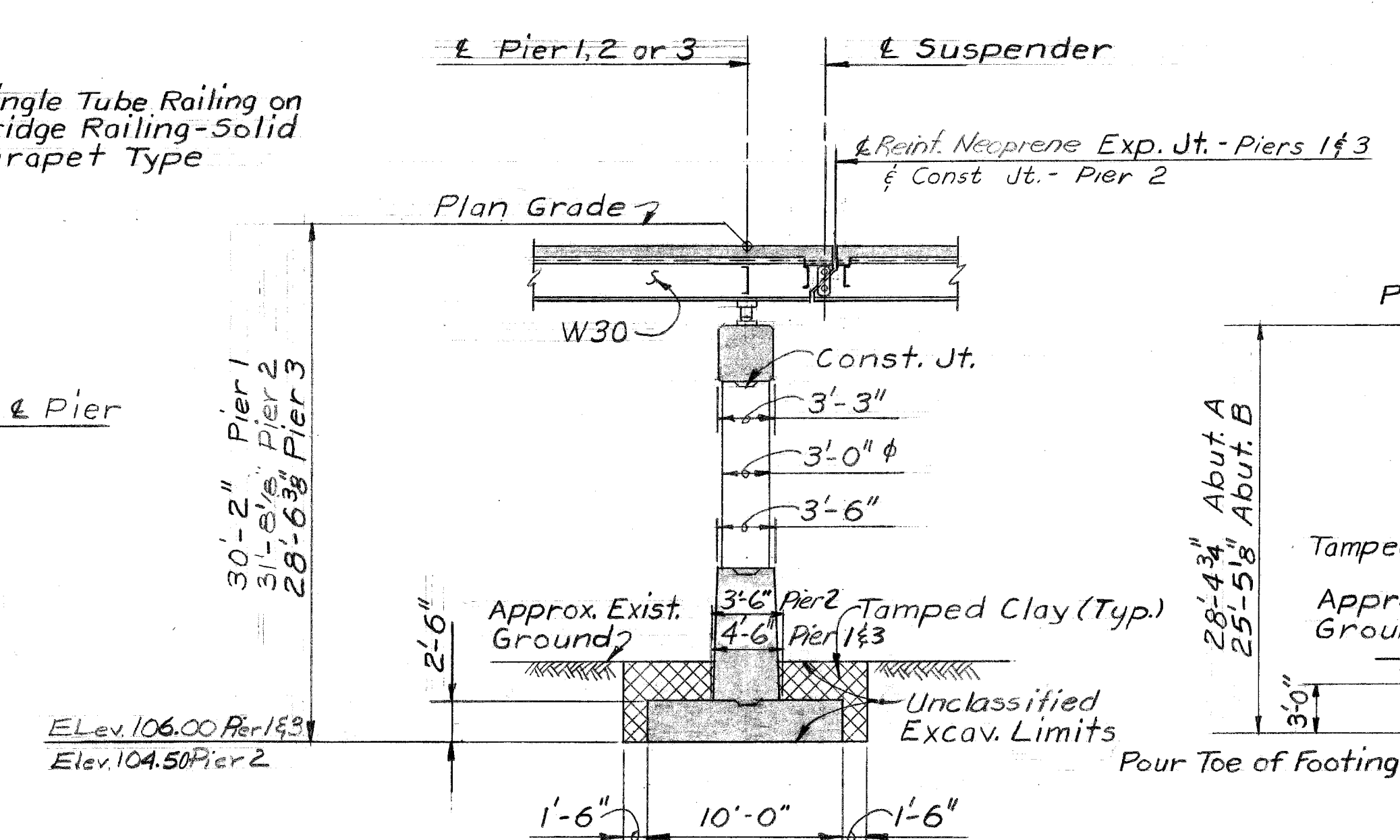
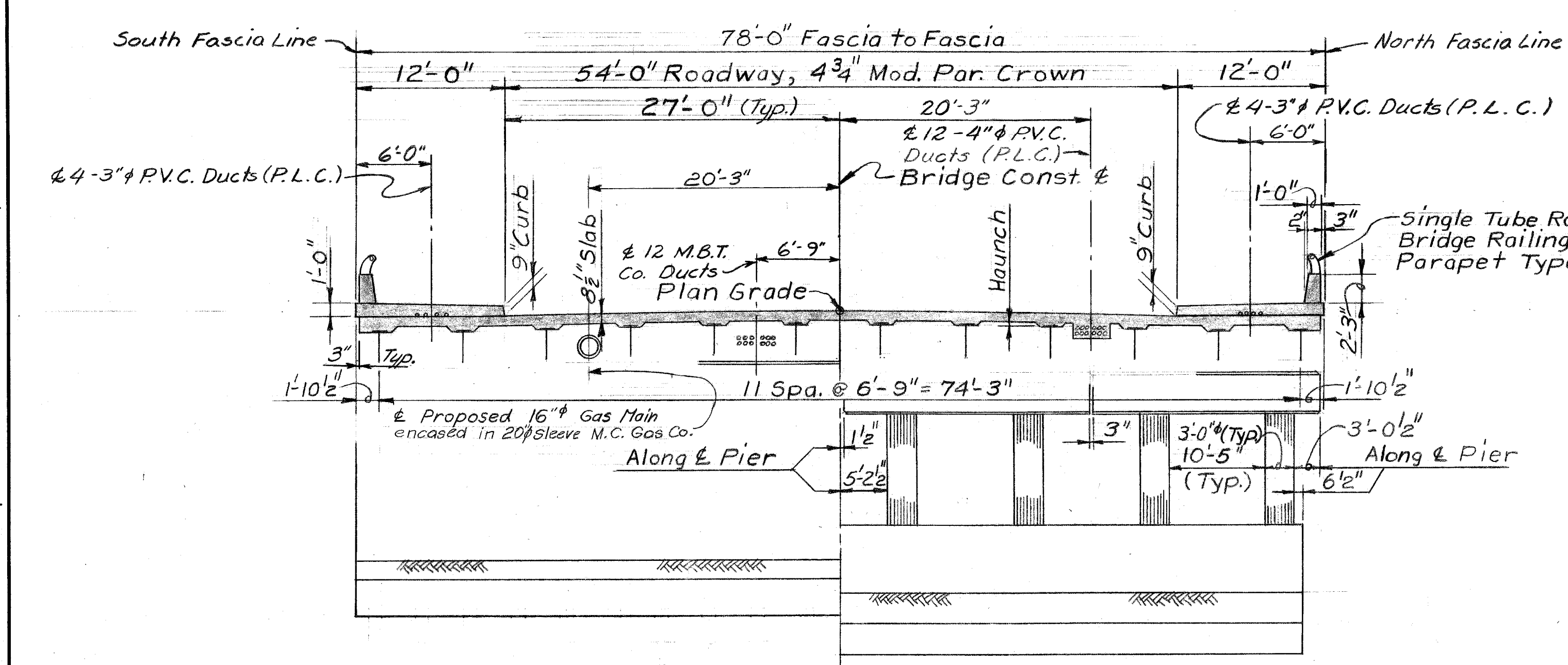
NOTES:

- o Denotes point of intersection
- △ Denotes point of intersection of traverse lines
- ⊗ Number designation of traverse line intersections
- Elevations given are referred to City of Detroit Datum, which is 479.755 ft. above sea level.
- T.L. Denotes survey traverse line.

DESIGNED BY McGuire	APPROVED: STRUCTURAL ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY, MUNDY, ECONOMIC DEVELOPMENT DEPARTMENT	WEST SIDE INDUSTRIAL REHABILITATION PROJECT #2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.	SHEET <u>6</u> OF <u>96</u> SHEETS
DRAWN BY J. J.	HEAD CIVIL ENGINEER			CONTRACT No. PW 6552
TRACED BY	HEAD CIVIL ENGINEER	FOR	GENERAL DRAWING	DRWG No. 55
CHECKED BY B. COMLY JDS	CITY ENGINEER			DATE 10-75



DESIGNED BY McGuire	APPROVED: _____ STRUCTURAL ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO 2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.	SHEET <u>7</u> OF <u>26</u> SHEETS
DRAWN BY J. J.	_____ HEAD CIVIL ENGINEER			CONTRACT No. PW 6552
CHECKED BY B. COMLY JHS	_____ CIVIL ENGINEER	GENERAL PLAN OF STRUCTURE	DRWG No. 56	DATE 10-75



Wingwall	Section	Wingwall Dimensions					
		T	S _{AVE}	H _{AVE}	B	D	Elev. F
North-West	1	5'-3"	3'-0"	8'-3"	16'-6"	3'-0"	106.0
	2	3'-6"	3'-0"	6'-6"	13'-0"	3'-0"	110.5
	3	2'-3"	2'-6"	5'-0"	9'-9"	2'-6"	115.0
	4	2'-0"	2'-4"	3'-8"	8'-0"	2'-6"	115.0
	5	2'-0"	2'-3"	3'-9"	8'-0"	2'-6"	115.0
	6	1'-6"	2'-2"	2'-4"	6'-0"	2'-0"	115.0
	7	1'-6"	2'-1"	2'-5"	6'-0"	2'-0"	115.0
	8	1'-6"	1'-6"	3'-0"	6'-0"	2'-0"	115.0
South-West	1	4'-3"	3'-0"	-	-	3'-0"	106.0
	2	4'-3"	3'-0"	7'-9"	14'-0"	3'-0"	110.5
	3	2'-6"	2'-6"	6'-3"	11'-3"	2'-6"	115.0
	4	2'-6"	2'-5"	6'-4"	11'-3"	2'-6"	115.0
5	2'-3"	2'-4"	5'-2"	9'-9"	2'-6"	115.0	
6	2'-3"	2'-4"	5'-2"	9'-9"	2'-6"	115.0	
7	2'-0"	2'-3"	3'-9"	8'-0"	2'-6"	115.0	
8	2'-0"	2'-3"	3'-9"	8'-0"	2'-6"	115.0	
9	1'-6"	2'-2"	2'-4"	6'-0"	2'-0"	115.0	
10	1'-6"	2'-1"	2'-5"	6'-0"	2'-0"	115.0	
11	1'-6"	2'-1"	2'-5"	6'-0"	2'-0"	115.0	
12	1'-6"	2'-0"	2'-6"	6'-0"	2'-0"	115.0	

GENERAL NOTES

Except where otherwise indicated on these plans or in the Proposal and supplemental specifications contained therein, all materials and workmanship shall be in accordance with the Michigan Department of State Highways Standard Specifications for Highway Construction, 1973 edition.

The design of this structure is based on current AASHTO Standard Specifications for Highway Bridges, HS20-44 loading.

Live load plus impact deflection: 1/1000 of span length and 1/350 of cantilever arm.

Top of roadway slab and top of curbs are parallel to the vertical curve.

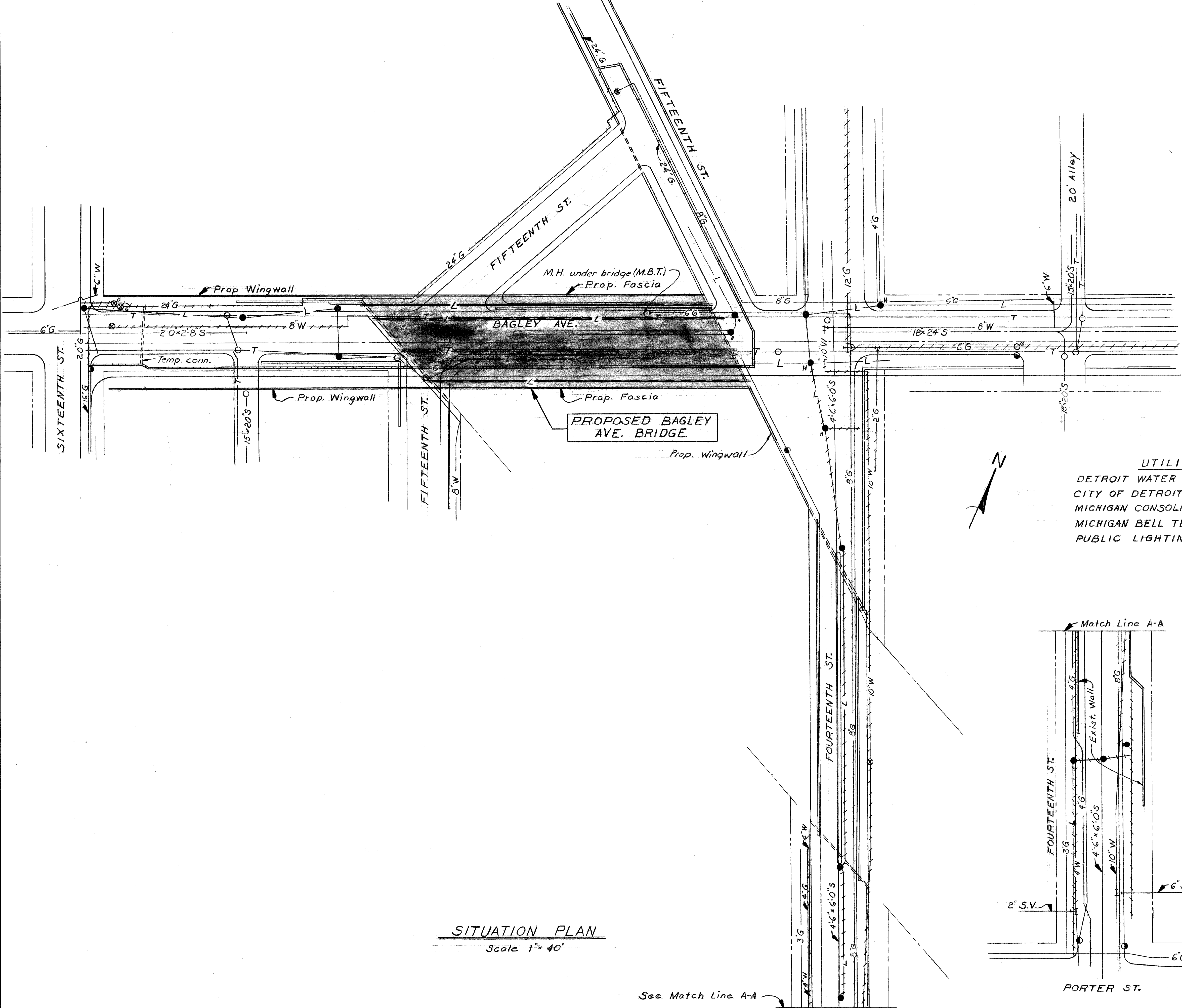
P.G. denotes Plan Grade

J.W.P. denotes Joint Waterproofing.

The grades and design stresses for the structural materials used in this structure are as follows:

Substructure concrete: Grade 355, f_c = 3500 psi.
 Superstructure concrete: Grade 405, f_c = 4000 psi.
 Steel Reinforcement: f_s = 20,000 psi.
 Structural steel: A588 f_s = 27,000 psi.

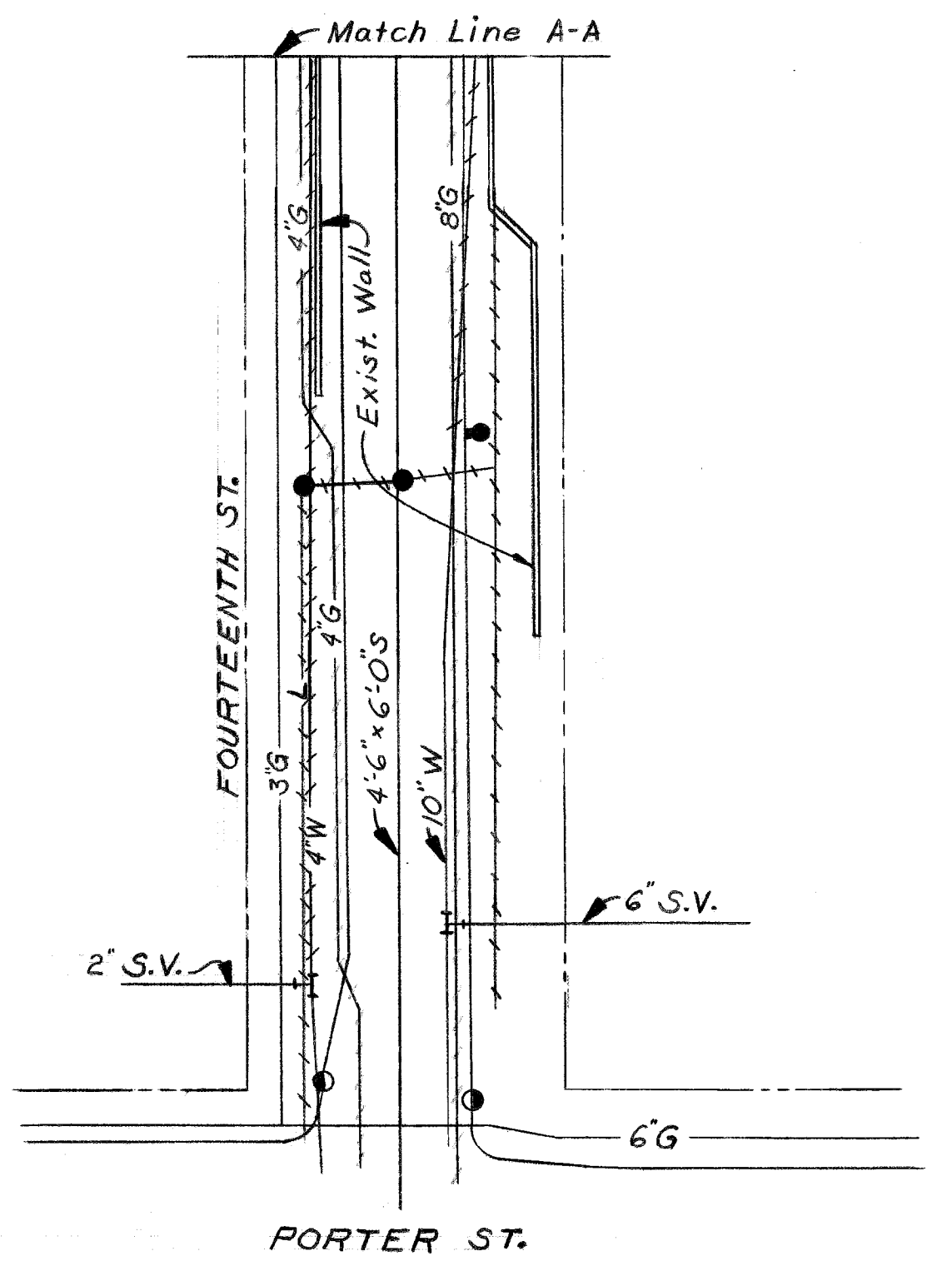
REVISIONS LOCATED BY COORDINATES ON SHEET AS BUILT REVISIONS LOCATED BY COORDINATES ON SHEET	REFERENCE DRAWINGS DESIGNED BY: <i>McGuire</i> DRAWN BY: <i>J. J.</i> TRACED BY: CHECKED BY: <i>B. COMLY JHS</i>	APPROVED: STRUCTURAL ENGINEER HEAD CIVIL ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO 2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R. GENERAL PLAN OF STRUCTURE	SHEET 8 OF 26 SHEETS CONTRACT NO. PW 6552 DRWG No. 57 DATE 10-75
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LEGEND

EXISTING	DEAD OR TO BE ABANDONED	NEW WORK BY OTHERS	NEW WORK BY CONTRACTOR
— W —			
— S —			
— G —	+++ G +++	==== G ===	
— T —	+++ T +++	==== T ===	
— L —	+++ L +++		==== L ===

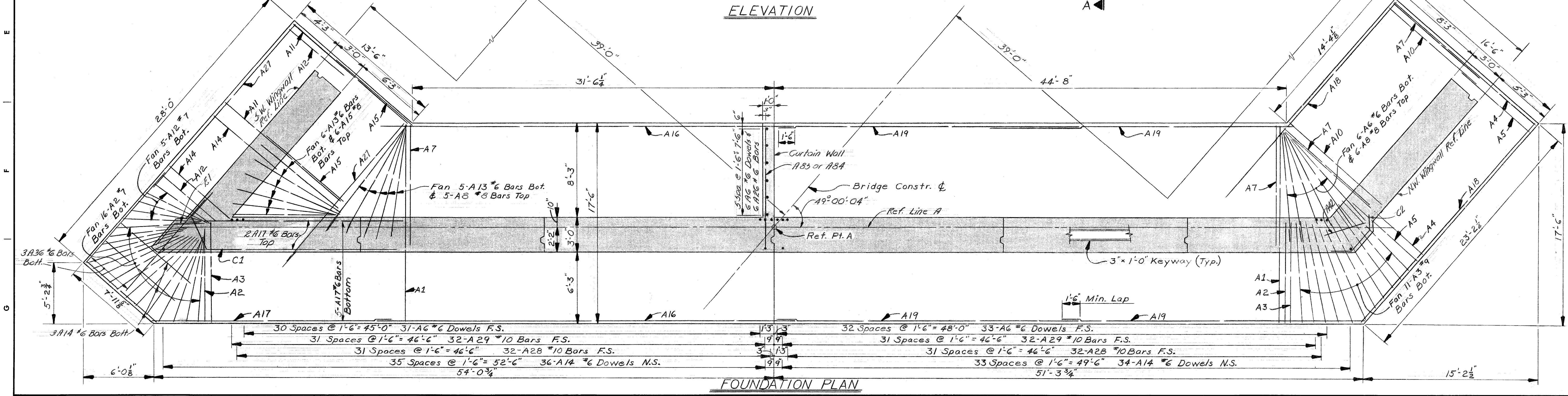
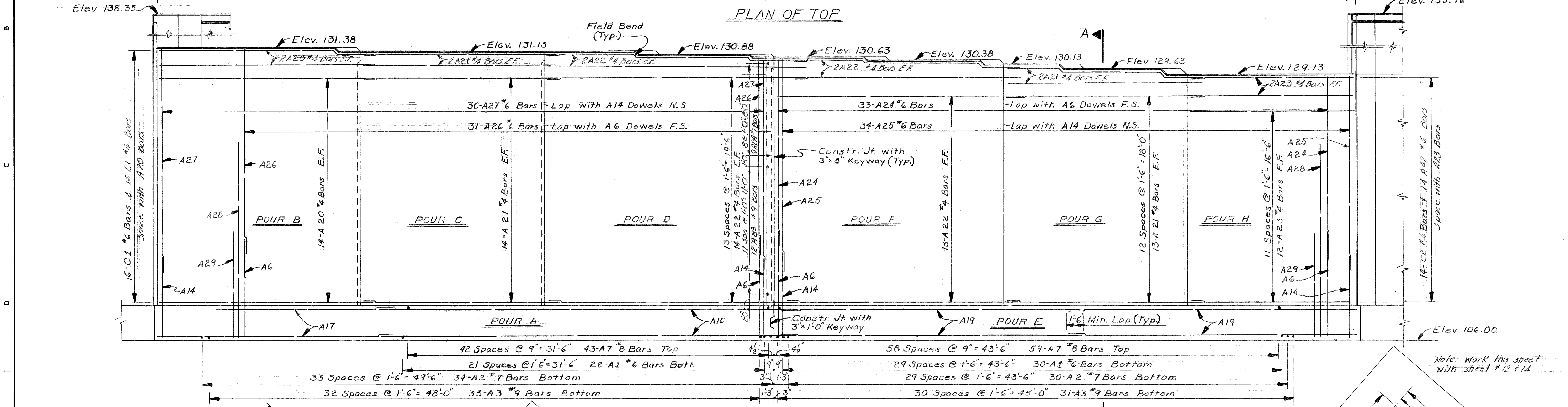
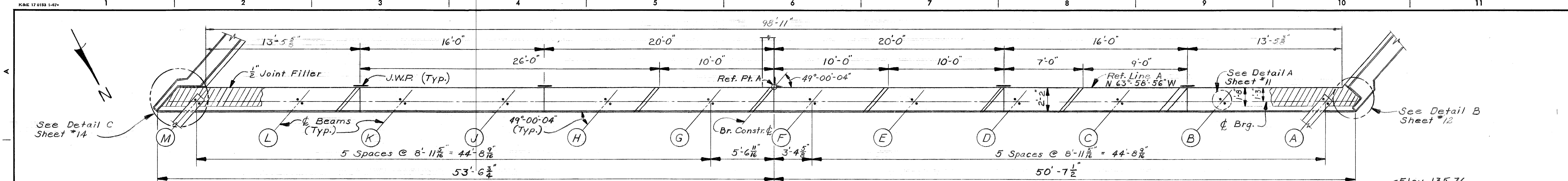
- LEGEND**
- ⊙ denotes Detroit Edison Pole
 - ⊗ denotes Water Gatewell and Valve
 - denotes P.L.C. Manhole
 - denotes Sewer Inlet or Catchbasin
 - ⊖ denotes Mich. Bell Telephone Manhole
 - denotes Fire Hydrant



SITUATION PLAN
Scale 1"=40'

See Match Line A-A

DESIGNED BY <i>McGuire</i>		APPROVED: _____ STRUCTURAL ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	WEST SIDE INDUSTRIAL REHABILITATION PROJECT No. 2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.	SHEET <u>9</u> OF <u>26</u> SHEETS
DRAWN BY _____		_____ HEAD CIVIL ENGINEER				CONTRACT No. <u>PW 6552</u>
TRACED BY <i>R. Rosik</i>		_____ CIVIL ENGINEER				DRWG No. <u>58</u>
CHECKED BY <i>McGuire</i>		_____ CIVIL ENGINEER		EXISTING UTILITIES AND PROPOSED ALTERATIONS		DATE <u>10-73</u>



COORD.	DESCRIPTION	DRN.	CRD.	APVD.	DATE
REVISIONS LOCATED BY COORDINATES ON SHEET					

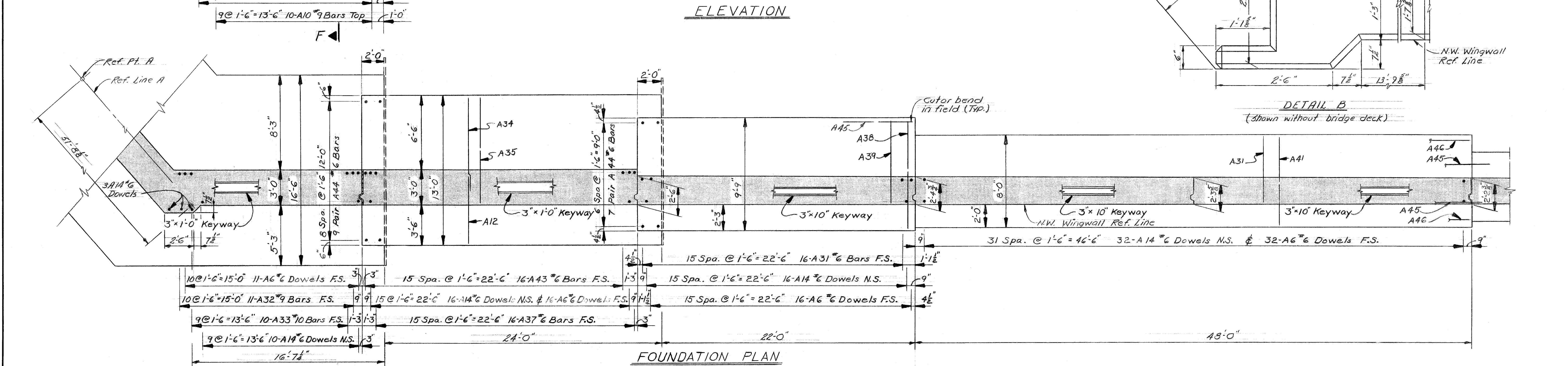
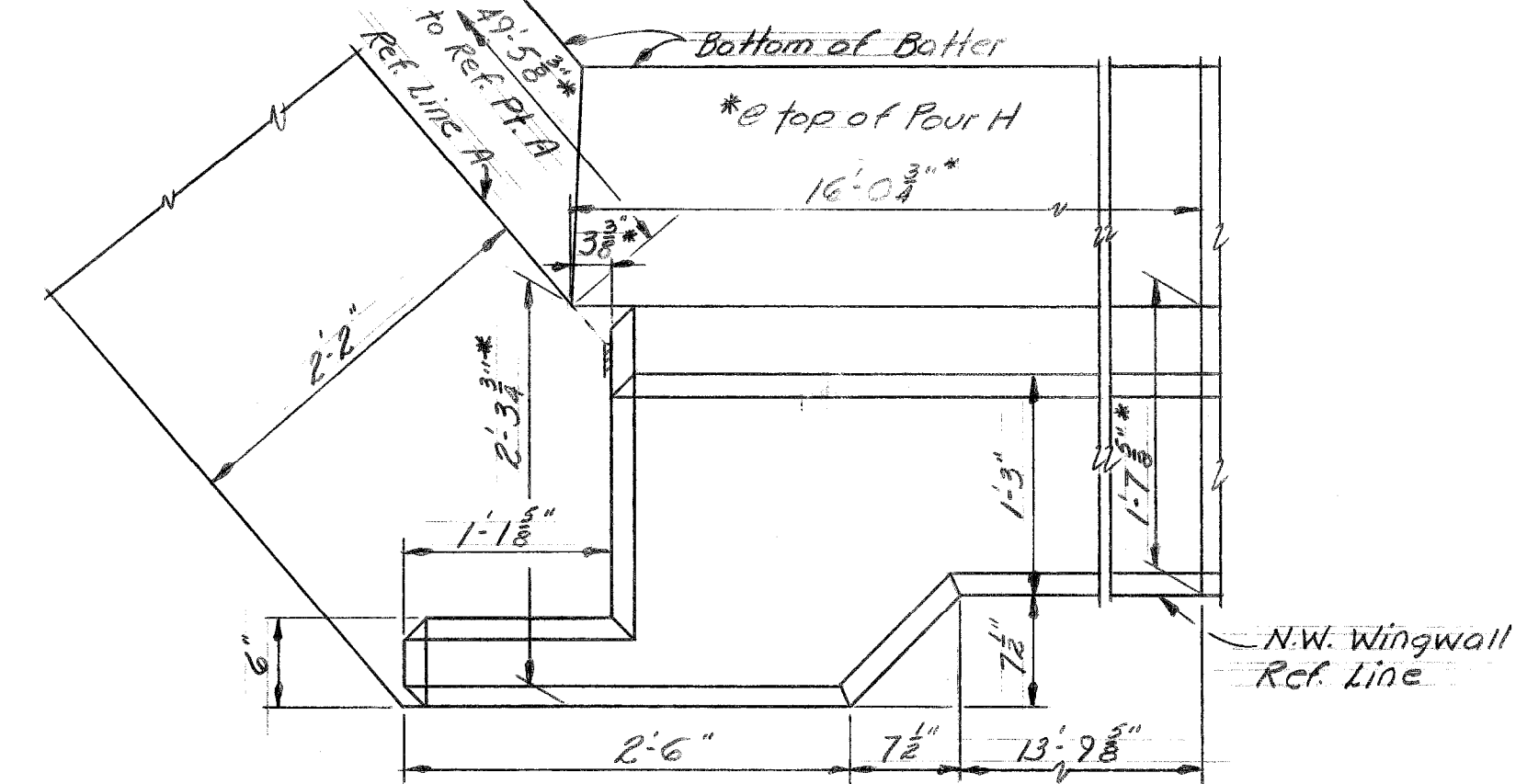
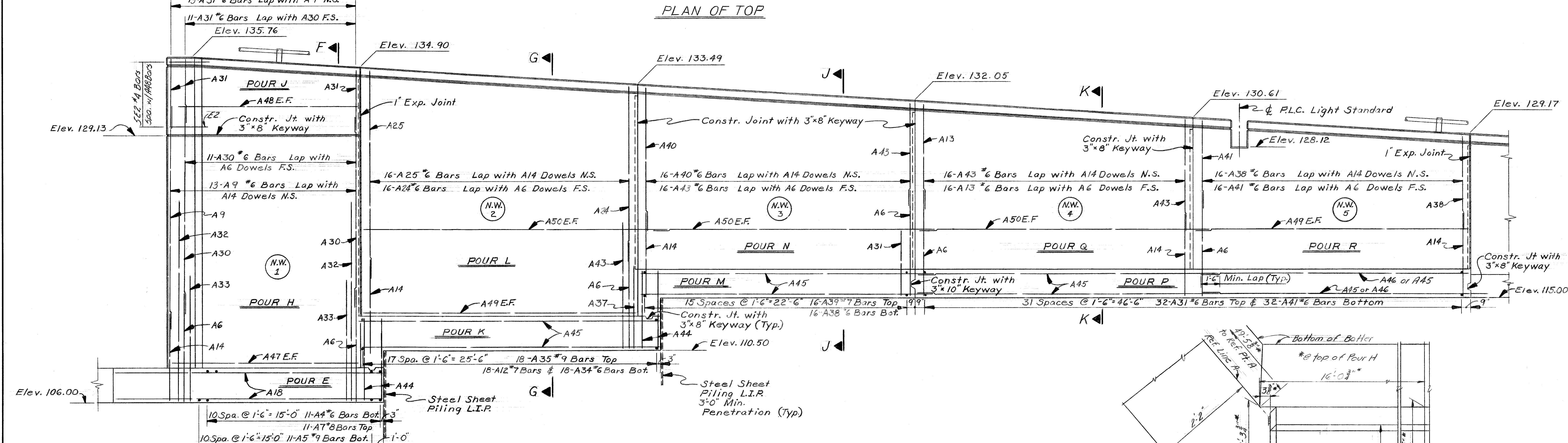
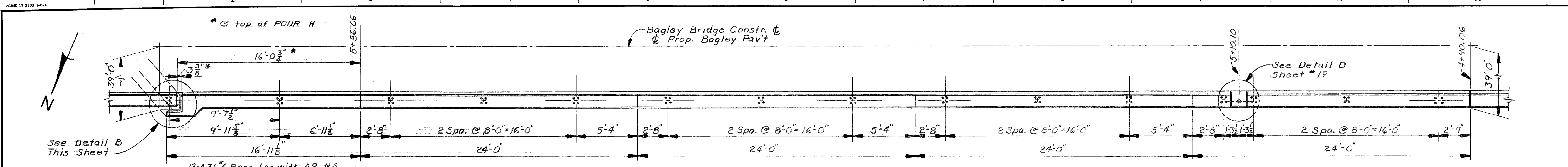
DESIGNED BY	<i>M. Gore</i>
DRAWN BY	<i>R. Rosik</i>
TRACED BY	
CHECKED BY	<i>M.C.</i>

APPROVED:	
STRUCTURAL ENGINEER	
HEAD CIVIL ENGINEER	
CITY ENGINEER	

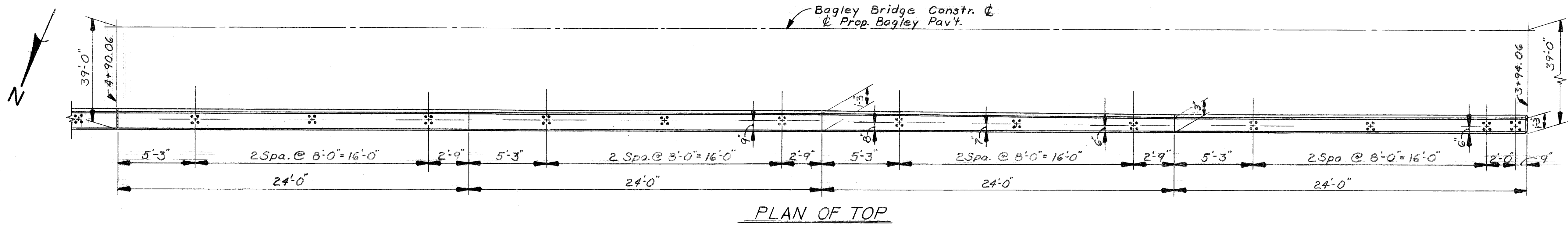
CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
 CITY ENGINEERS OFFICE
 FOR
 COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT

WEST SIDE INDUSTRIAL REHABILITATION PROJECT No.2
BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.
ABUTMENT A DETAILS

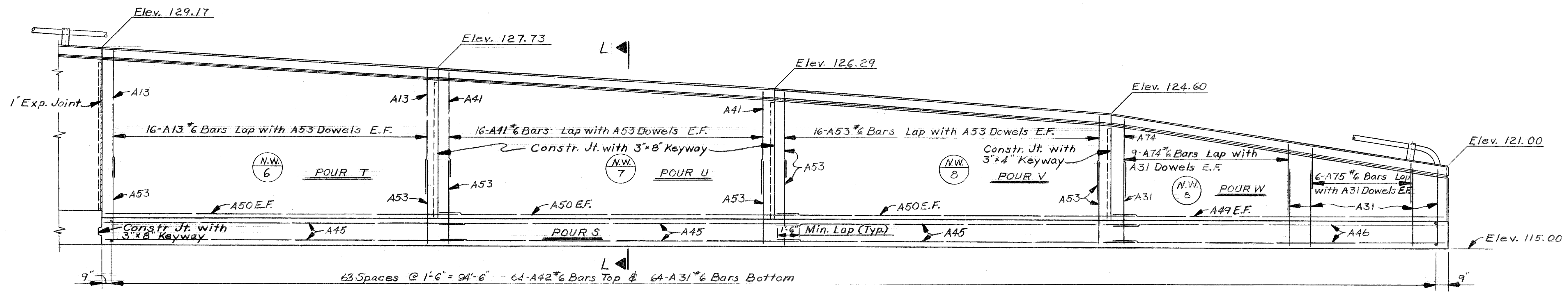
SHEET	16	OF	26	SHEETS
CONTRACT NO.	PW 6552			
DRWG No.	59			
DATE	10-73			



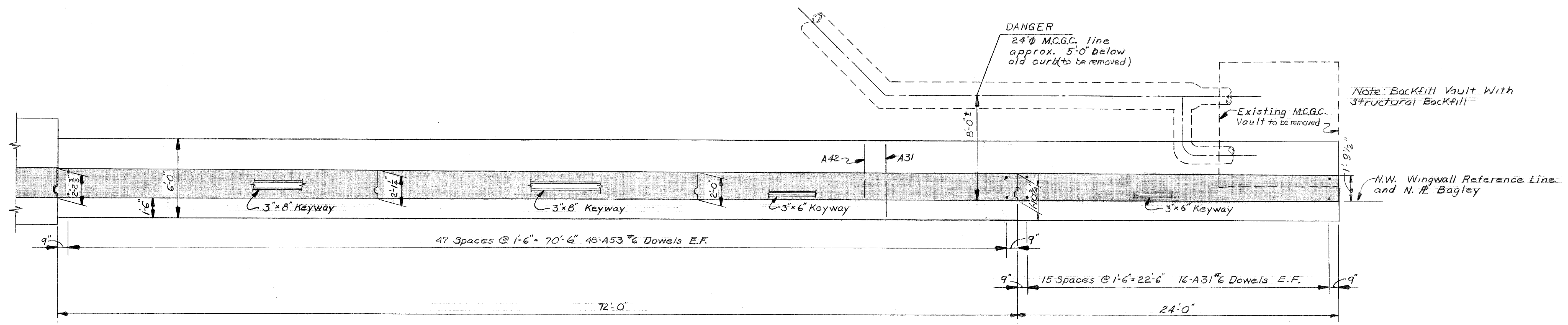
REFERENCE DRAWINGS DESIGNED BY: <i>Mc Guire</i> DRAWN BY: R. Rosik TRACED BY: CHECKED BY: M.C.		APPROVED: _____ STRUCTURAL ENGINEER _____ HEAD CIVIL ENGINEER _____ CIVIL ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		WEST SIDE INDUSTRIAL REHABILITATION PROJECT No. 2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R. N.W. WINGWALL DETAILS		SHEET 12 OF 26 SHEETS CONTRACT No. PW 6552 DRWG No. S 11 DATE 11/10/73	
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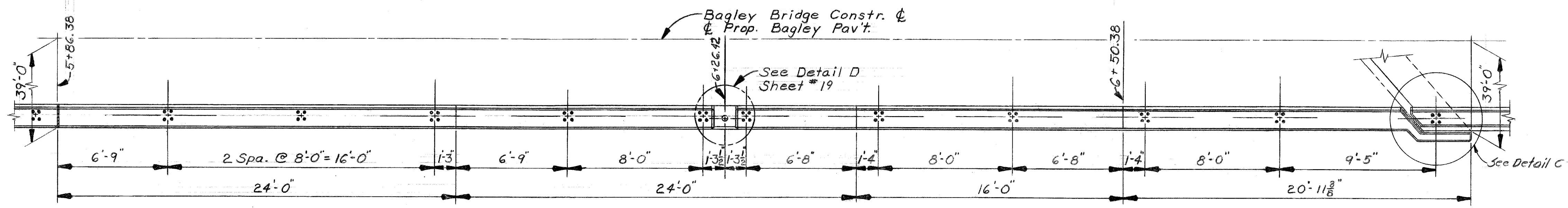


ELEVATION

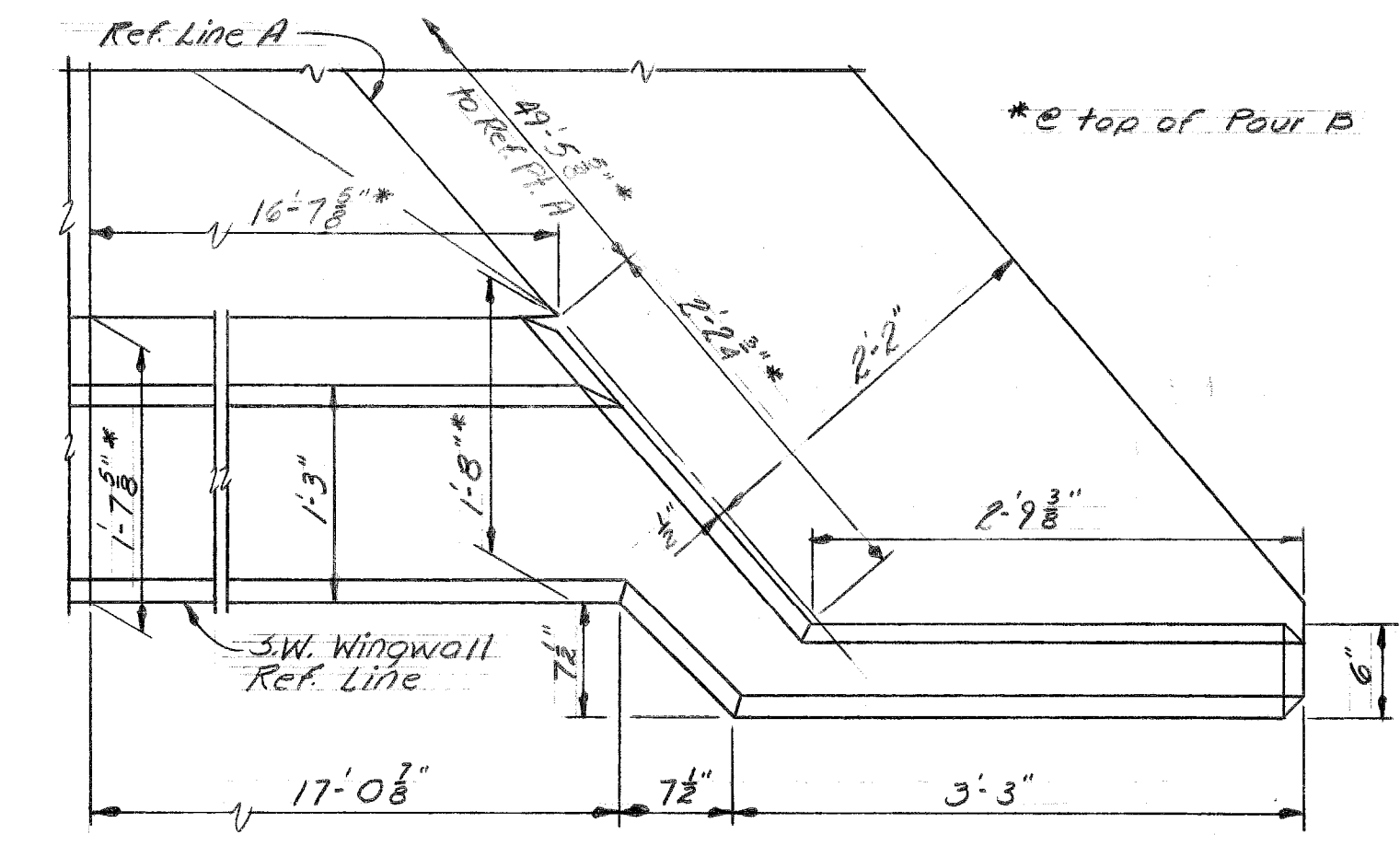


FOUNDATION PLAN

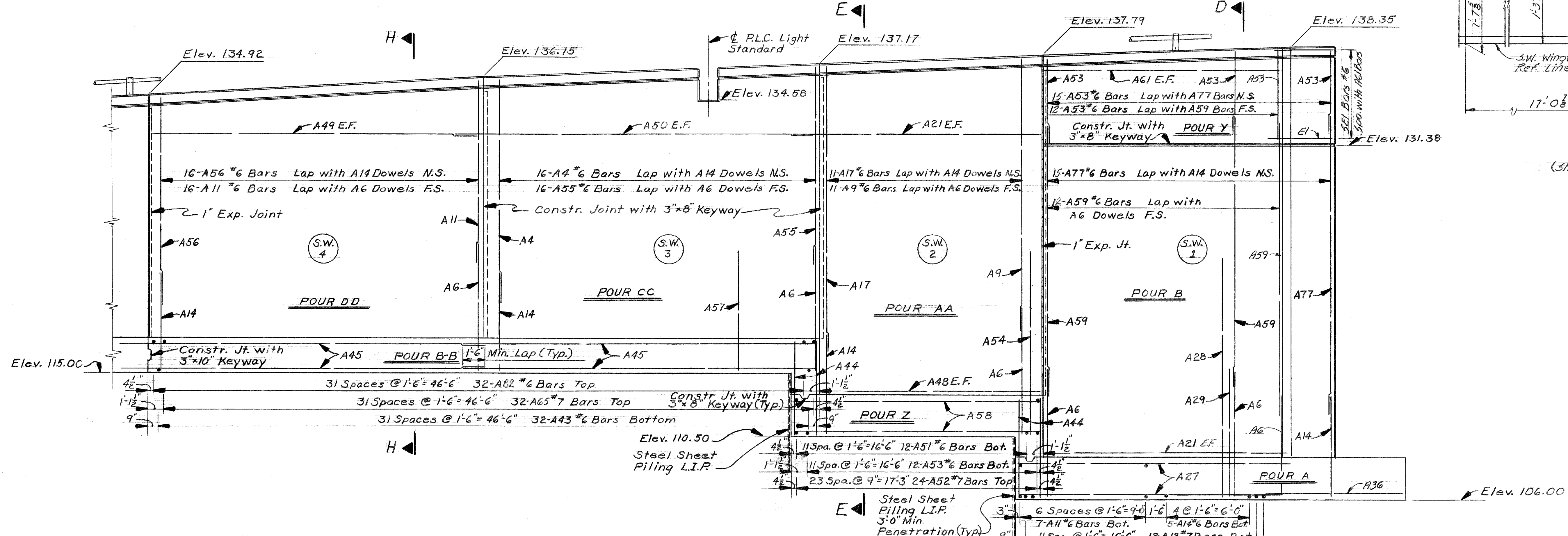
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COORD	DESCRIPTION	DRN	CK'D	AP'VD	DATE																												
REVISIONS LOCATED BY COORDINATES ON SHEET																																	
DESIGNED BY	<i>M. Jure</i>	APPROVED:																															
DRAWN BY	R. Rosik	STRUCTURAL ENGINEER																															
TRACED BY		HEAD CIVIL ENGINEER																															
CHECKED BY	M.C.	CITY ENGINEER																															



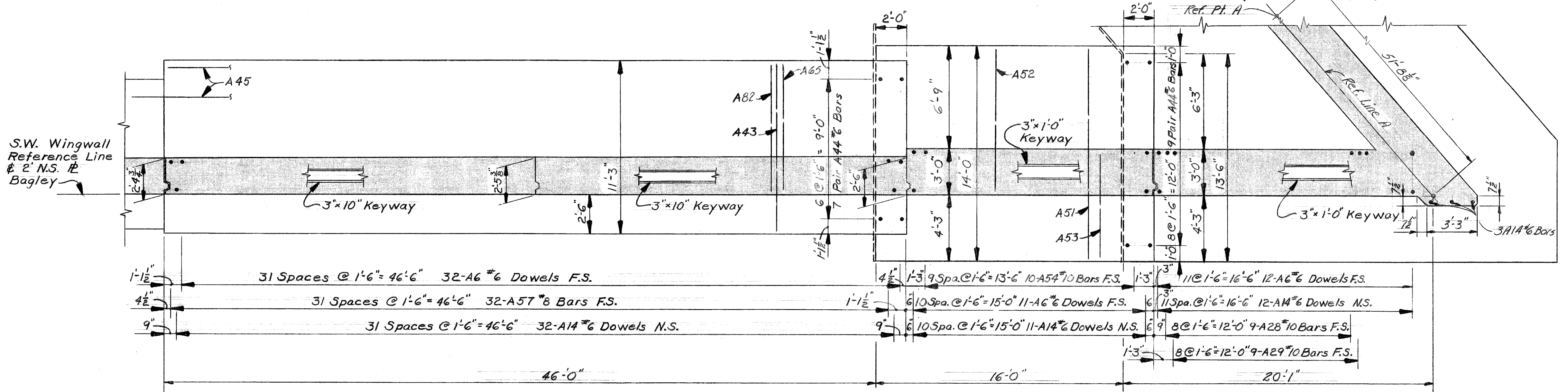
PLAN OF TOP



DETAIL C
(Shown without bridge deck)

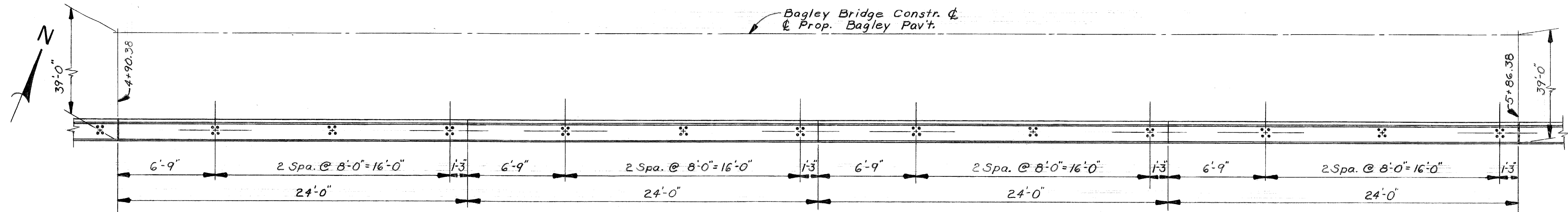


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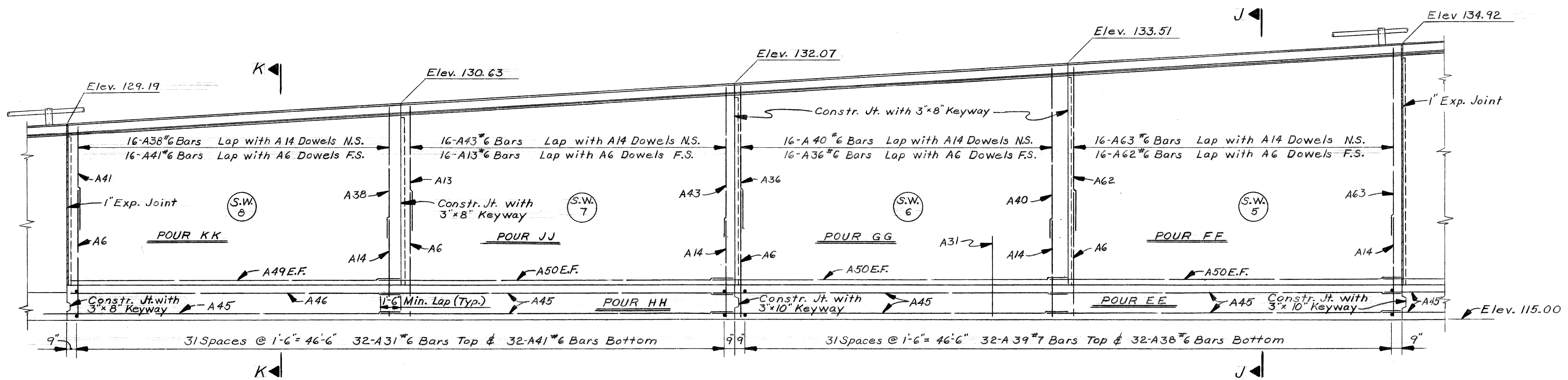


FOUNDATION PLAN

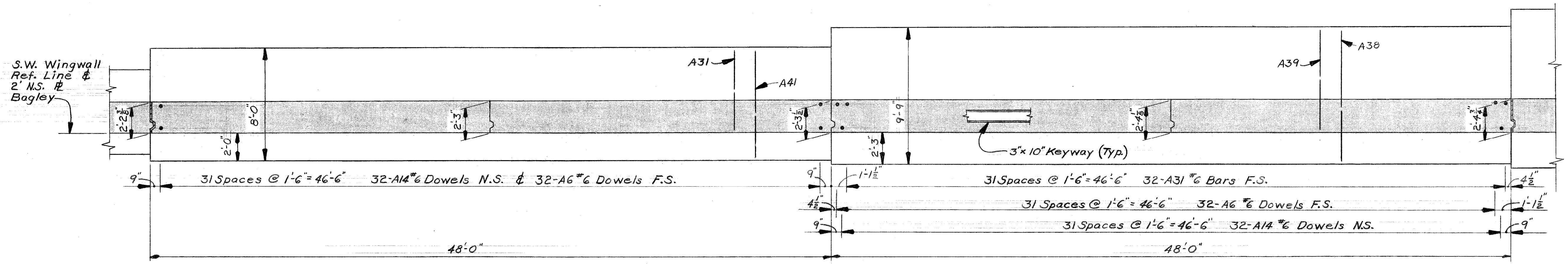
DESIGNED BY: <i>M. J. J. J.</i>		APPROVED: _____		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	WEST SIDE INDUSTRIAL REHABILITATION PROJECT No.2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.	SHEET 14 OF 96 SHEETS
DRAWN BY: R. Rosik		STRUCTURAL ENGINEER				CONTRACT No. PN 6352
TRACED BY: _____		HEAD CIVIL ENGINEER		FOR S.W. WINGWALL DETAILS	DRWG No. S13	DATE 10-73
CHECKED BY: M.C.		CITY ENGINEER				



PLAN OF TOP

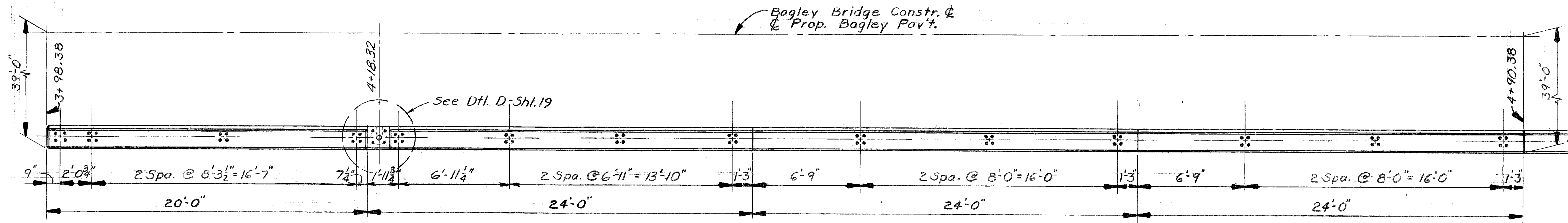


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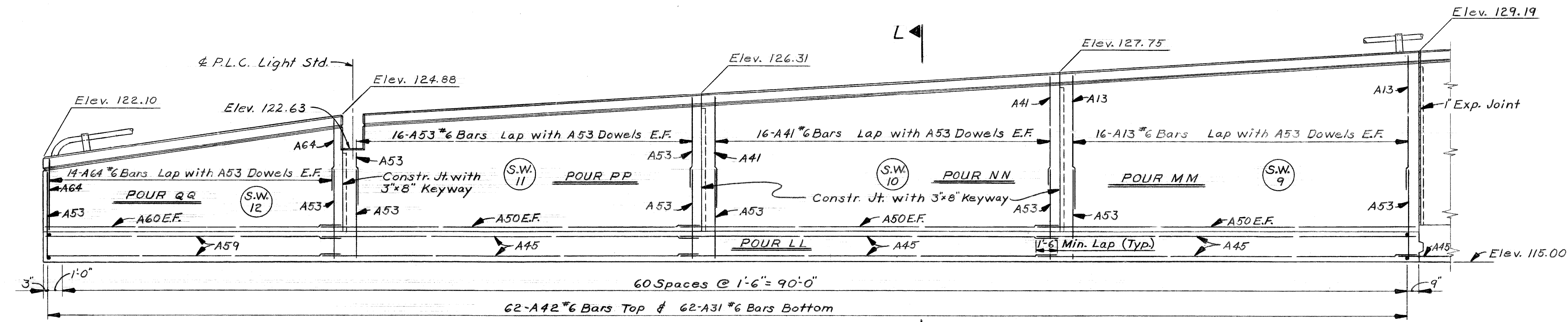


FOUNDATION PLAN

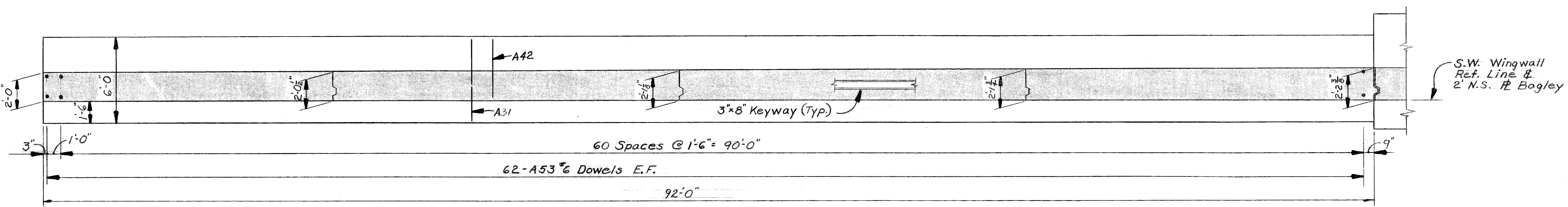
DESIGNED BY: <i>M. J. J...</i> DRAWN BY: R. Rosik TRACED BY: CHECKED BY: M.C.		APPROVED: _____ STRUCTURAL ENGINEER _____ HEAD CIVIL ENGINEER _____ CIVIL ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		WEST SIDE INDUSTRIAL REHABILITATION PROJECT No.2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.		SHEET <u>15</u> OF 26 SHEETS CONTRACT No. <u>PW 6552</u> DRWG No. <u>514</u> DATE <u>10-73</u>	
REVISIONS LOCATED BY COORDINATES ON SHEET						S.W. WINGWALL DETAILS			



PLAN OF TOP

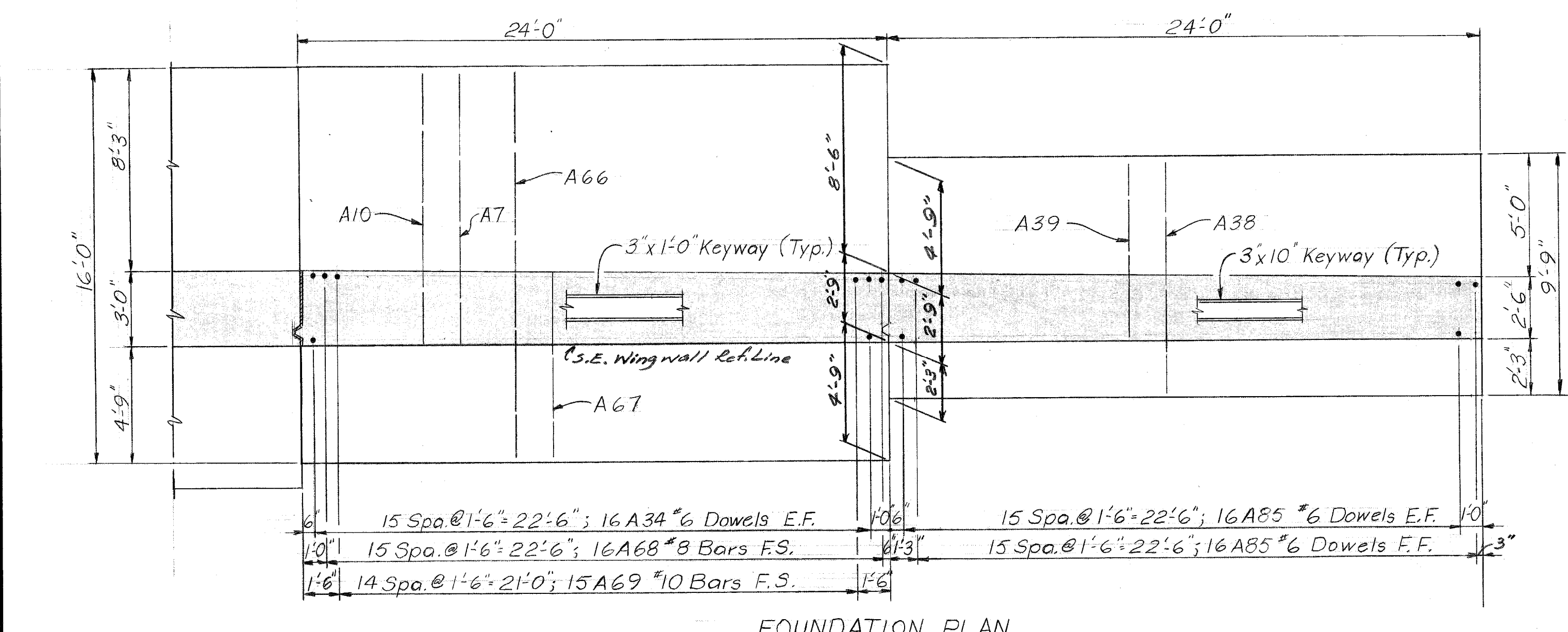
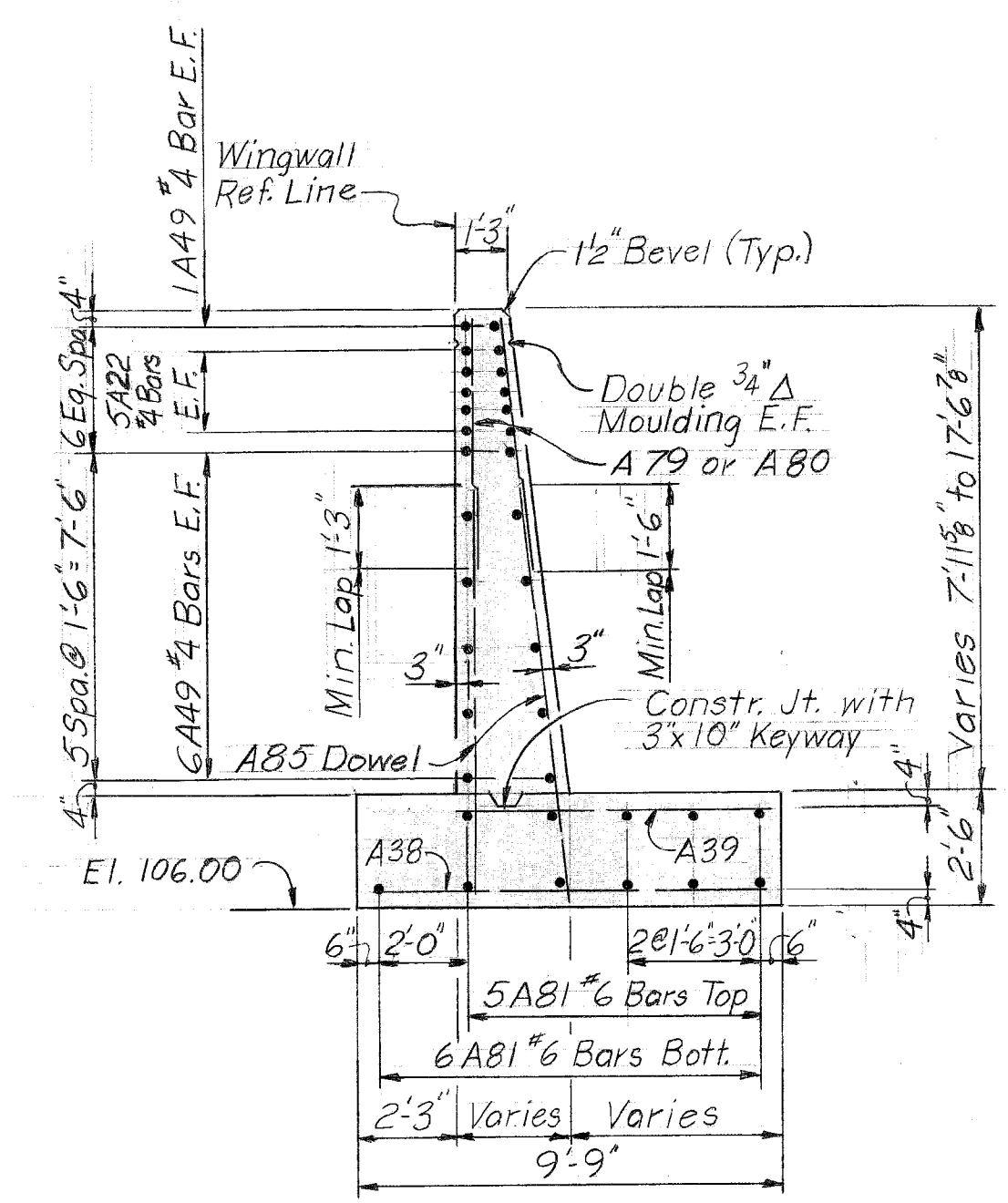
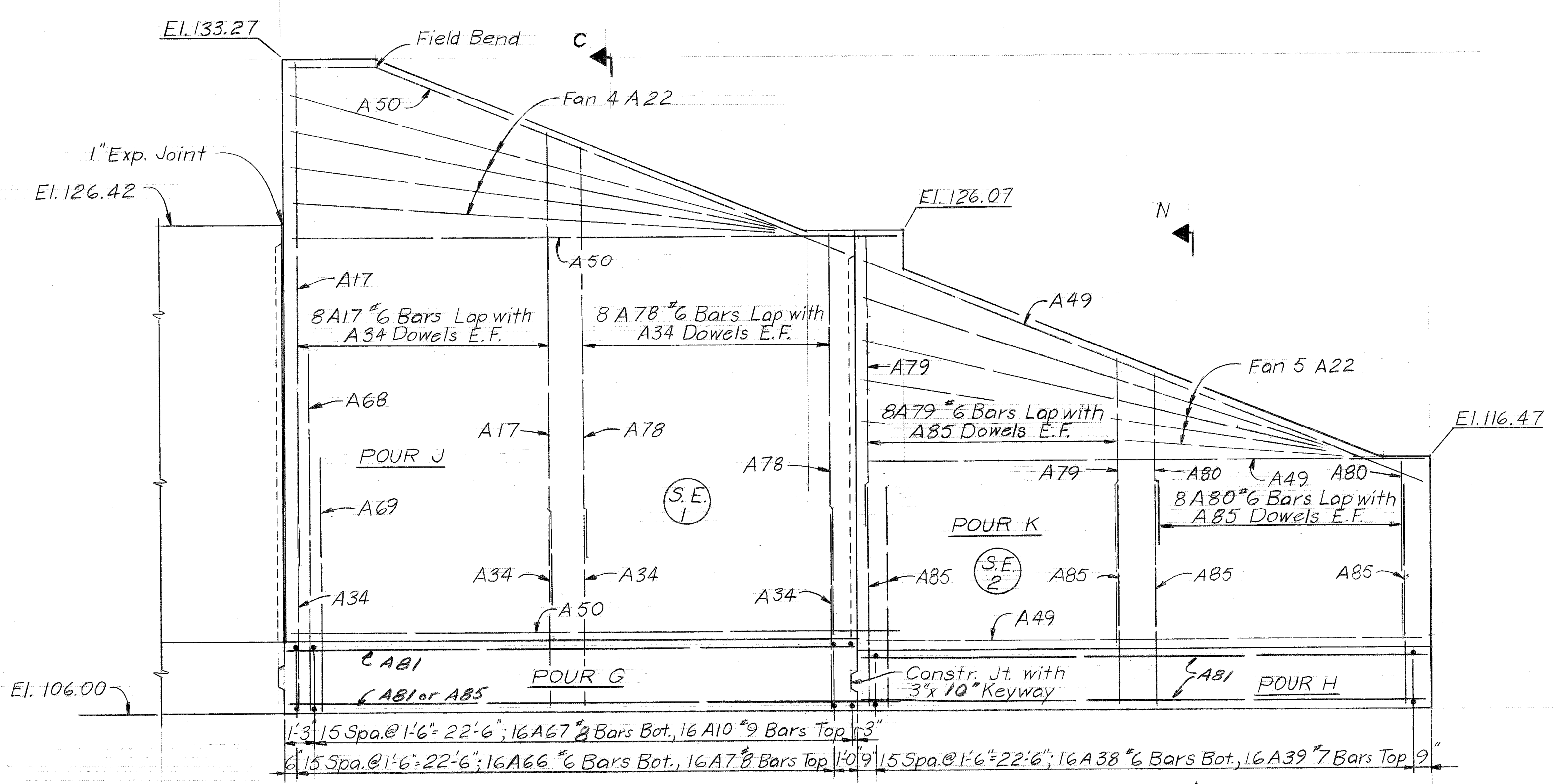
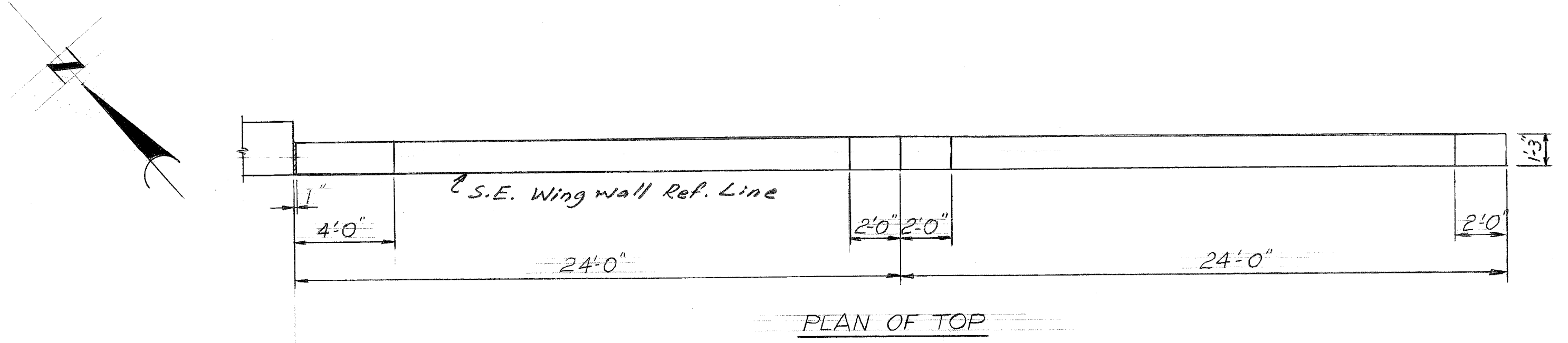


ELEVATION



FOUNDATION PLAN

DESIGNED BY: <i>McGuire</i> DRAWN BY: <i>R. Rosik</i> TRACED BY: CHECKED BY: <i>M.C.</i>		APPROVED: STRUCTURAL ENGINEER HEAD CIVIL ENGINEER CIVIL ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT			WEST SIDE INDUSTRIAL REHABILITATION PROJECT No.2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.		SHEET 18 OF 26 SHEETS CONTRACT No. PW6552 DRWG No. S15 DATE 10-73	
REVISIONS LOCATED BY COORDINATES ON SHEET							S.W. WINGWALL DETAILS			

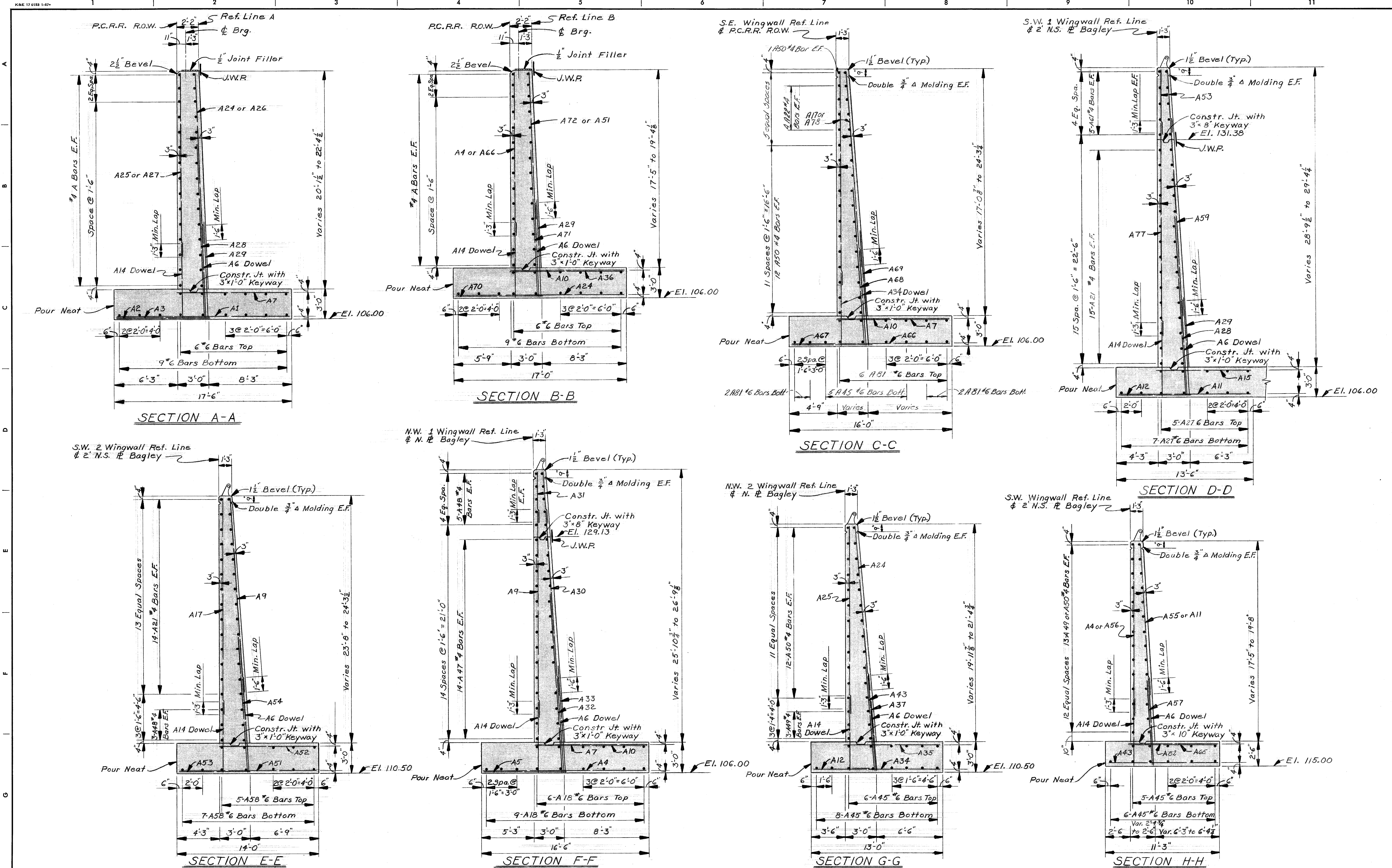


DESIGNED BY	M. J. J.	APPROVED:	
DRAWN BY	L. G.	STRUCTURAL ENGINEER	
TRACED BY		HEAD CIVIL ENGINEER	
CHECKED BY	M. C.	CITY ENGINEER	

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 CITY ENGINEERS OFFICE
 FOR
 COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT

WEST SIDE INDUSTRIAL REHABILITATION PROJECT No. 2
 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.
 S.E. WINGWALL DETAILS

SHEET 17 OF 26 SHEETS
CONTRACT No. PW 6552
DRWG No. 516
DATE 10-78

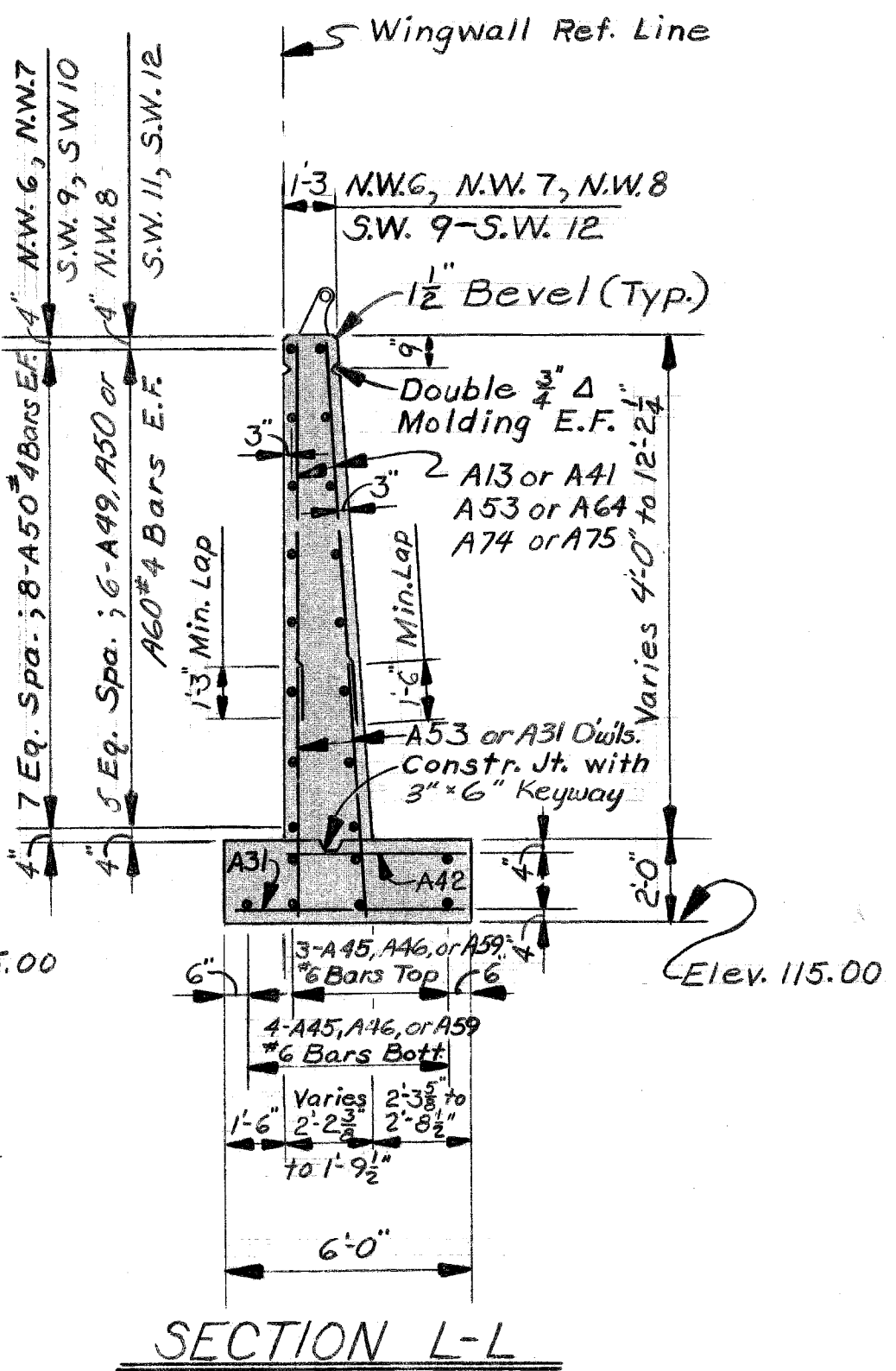
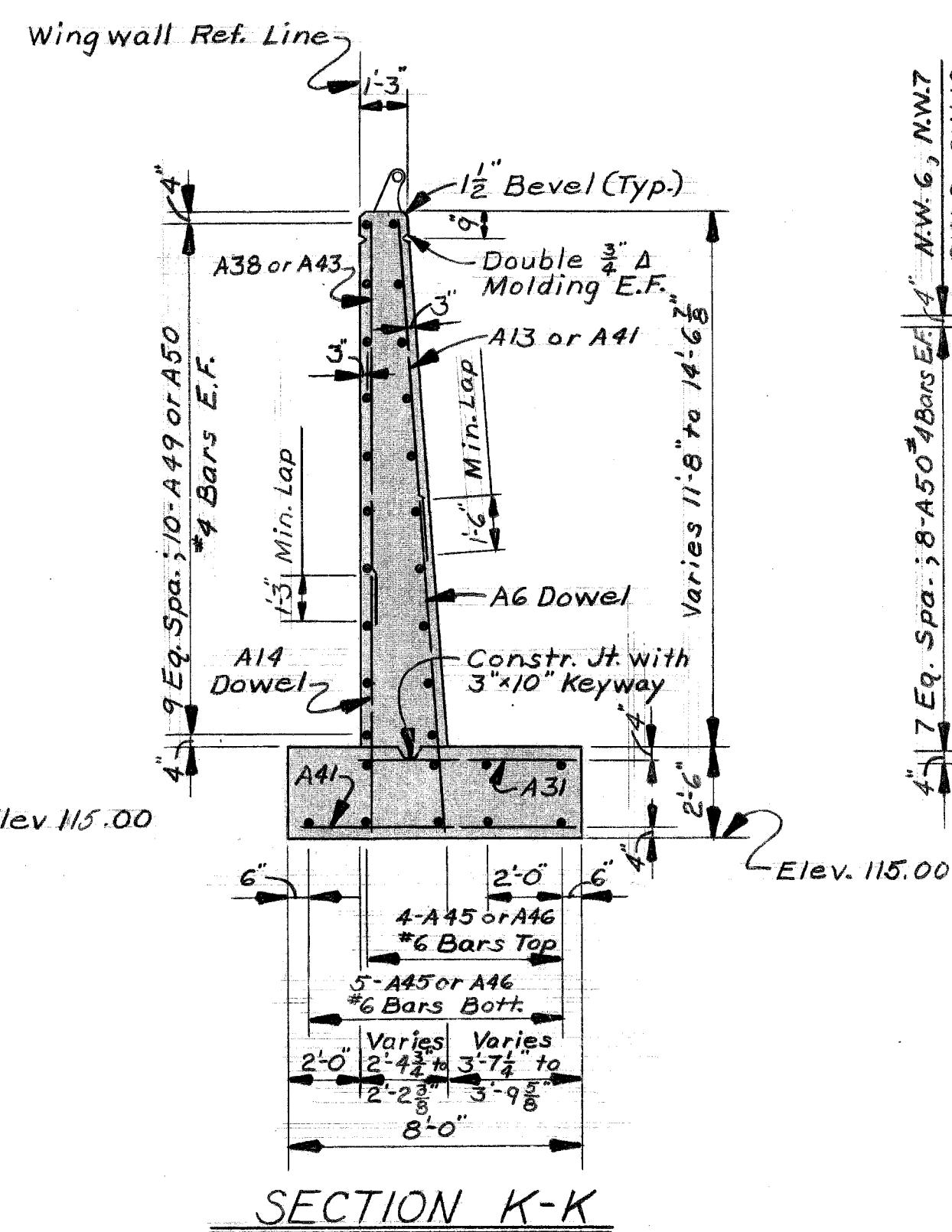
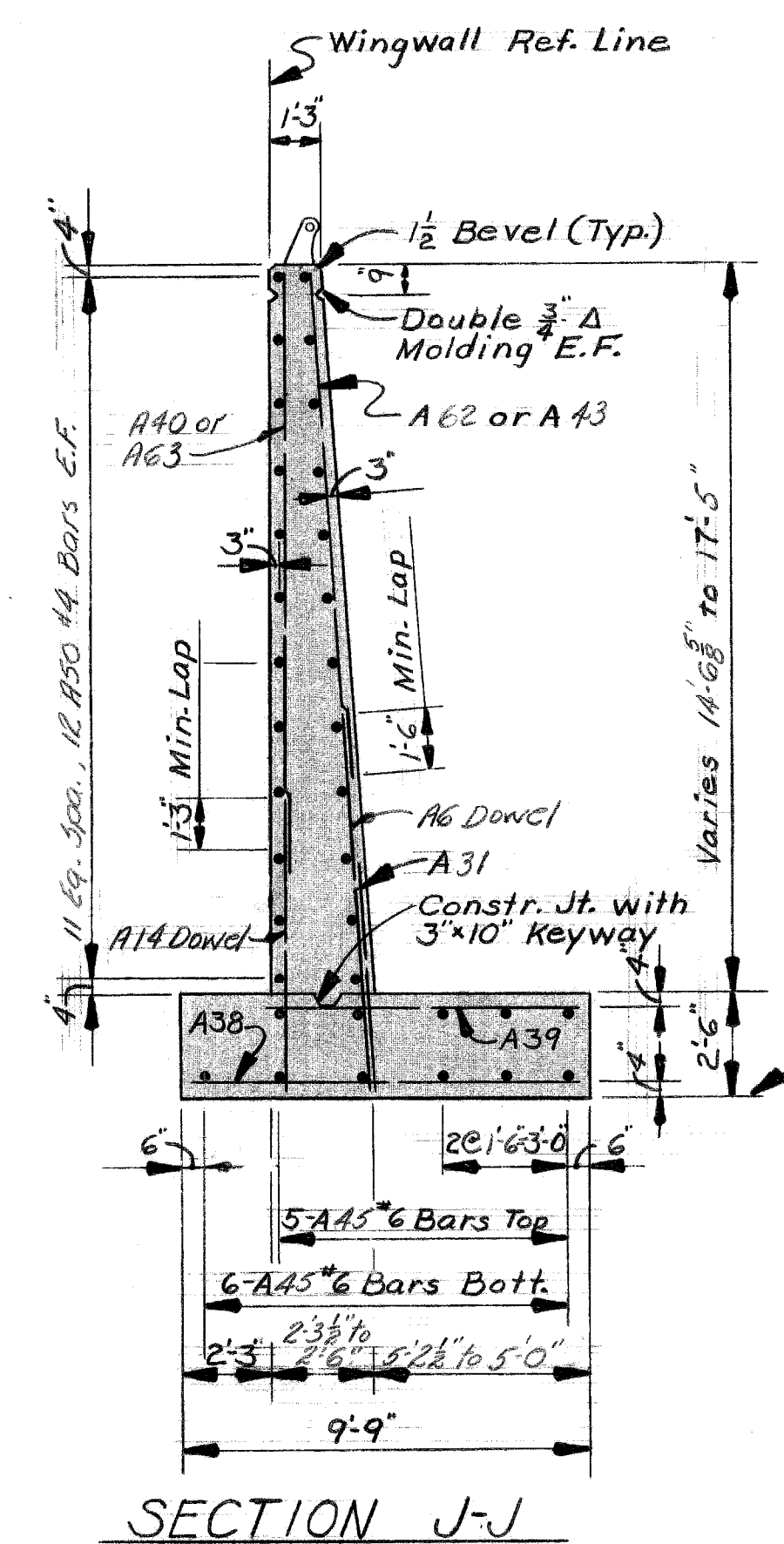


DESIGNED BY	<i>M. Jure</i>	APPROVED:	
DRAWN BY	R. Rosik	STRUCTURAL ENGINEER	
TRACED BY		HEAD CIVIL ENGINEER	
CHECKED BY	M.C.	OFF-ENGINEER	

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
 CITY ENGINEERS OFFICE
 FOR
COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT

WEST SIDE INDUSTRIAL REHABILITATION PROJECT No.2
BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.
ABUTMENT AND WINGWALL DETAILS

SHEET	13	OF	96	SHEETS
CONTRACT NO.	PW 6552			
DRWG NO.	517			
DATE	10-73			



GENERAL NOTES:

J.W.P. denotes Joint Waterproofing; N.S. denotes Near Side; F.S. denotes Far Side; E.F. denotes Each Face; U.N. denotes Unless Noted.

Position Dowels shall be accurately set to a template.

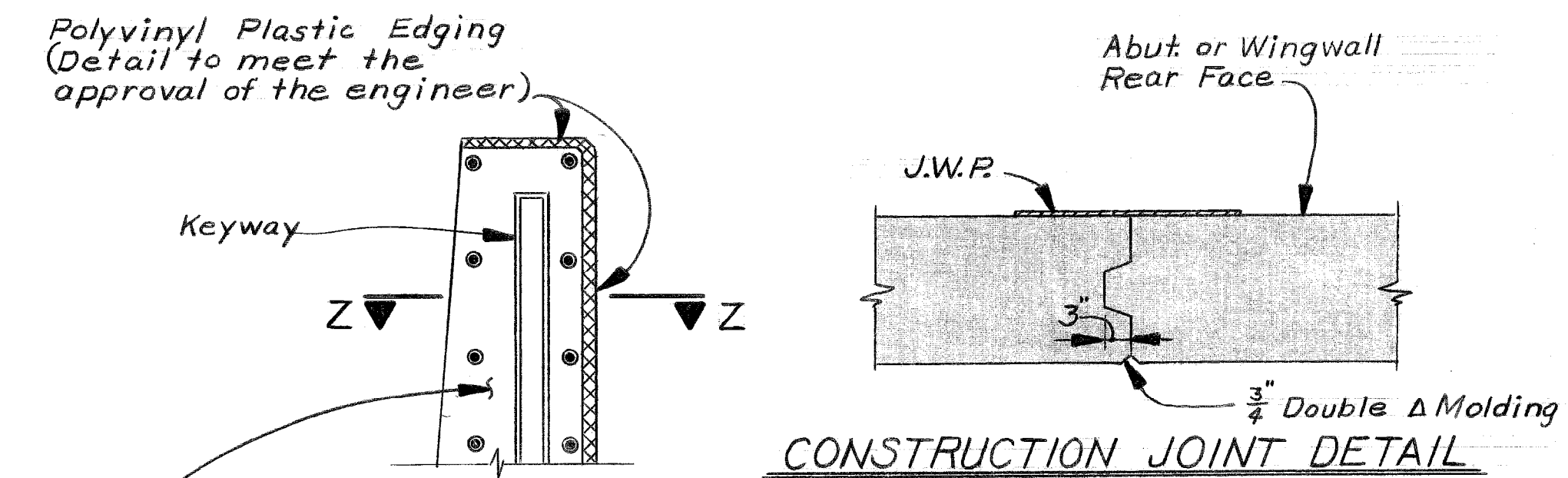
The bridge seat and the front face of both abutments shall be given an application of Clear Protective Coating for Substructure Concrete.

Steel sheet piling left in place 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. The piling shall be driven to its final penetration before adjacent concrete is poured. If it is necessary to lower the top of the sheeting after the concrete has been poured, the excess shall be removed by cutting.

Foundation Drains shall be perforated clay pipe, sloped 1/8 in/ft. min., continuous over the length of the abutment and wingwall footings and placed as shown on the General Plan of Structure.

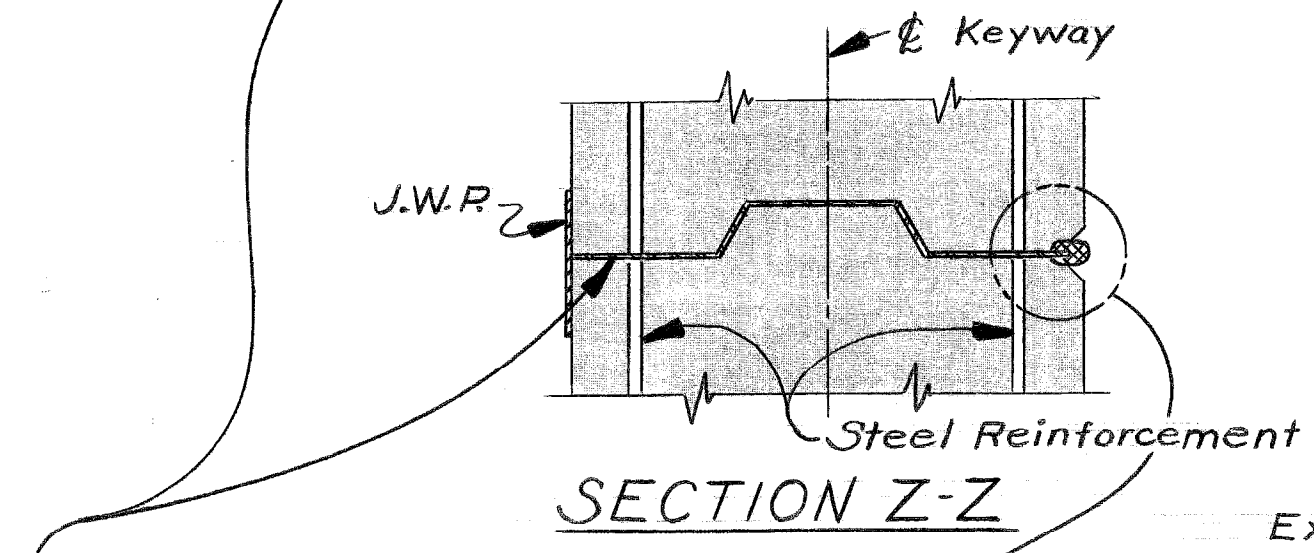
Maximum average foundation pressure (D.L. only) = 2600 lbs/Sq.Ft.
 Maximum foundation pressure D.L. + L.L. = 3900 lbs/Sq.Ft.

Pour Lettering shall not be interpreted to mean a required pour sequencing. The exposed faces of the retaining walls and abutment walls shall have special architectural treatment in accordance with Section 5.03.06 (c) of the Standard Specifications.



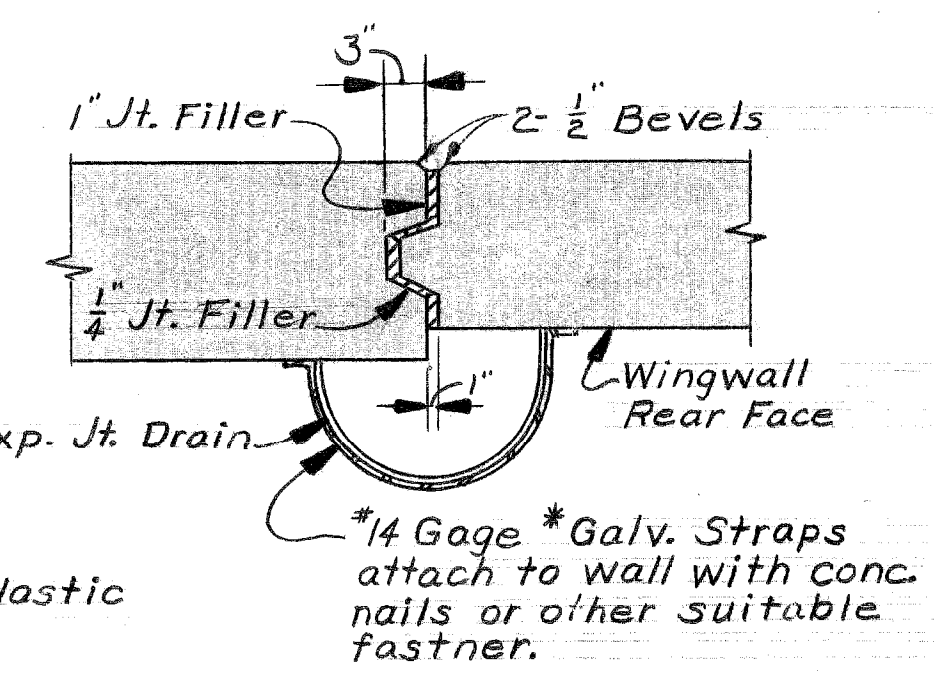
SECTION @ CONSTR. JT.

NOTE:
 Stop vertical keyways 1'-0" below top of Abutments and Wingwalls.
 Stop J.W.P. 2'-6" below top of wingwalls



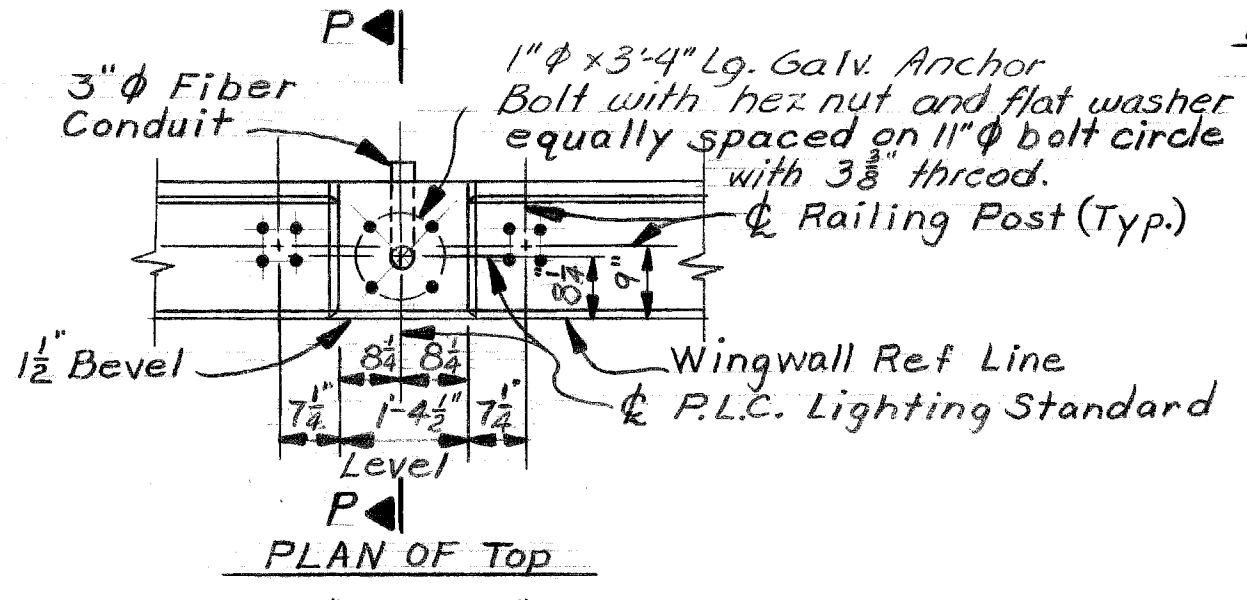
SECTION Z-Z

12 Gage Preformed Steel or Aluminum Bulkhead securely held in place (No tack welding to Reinf. Steel)



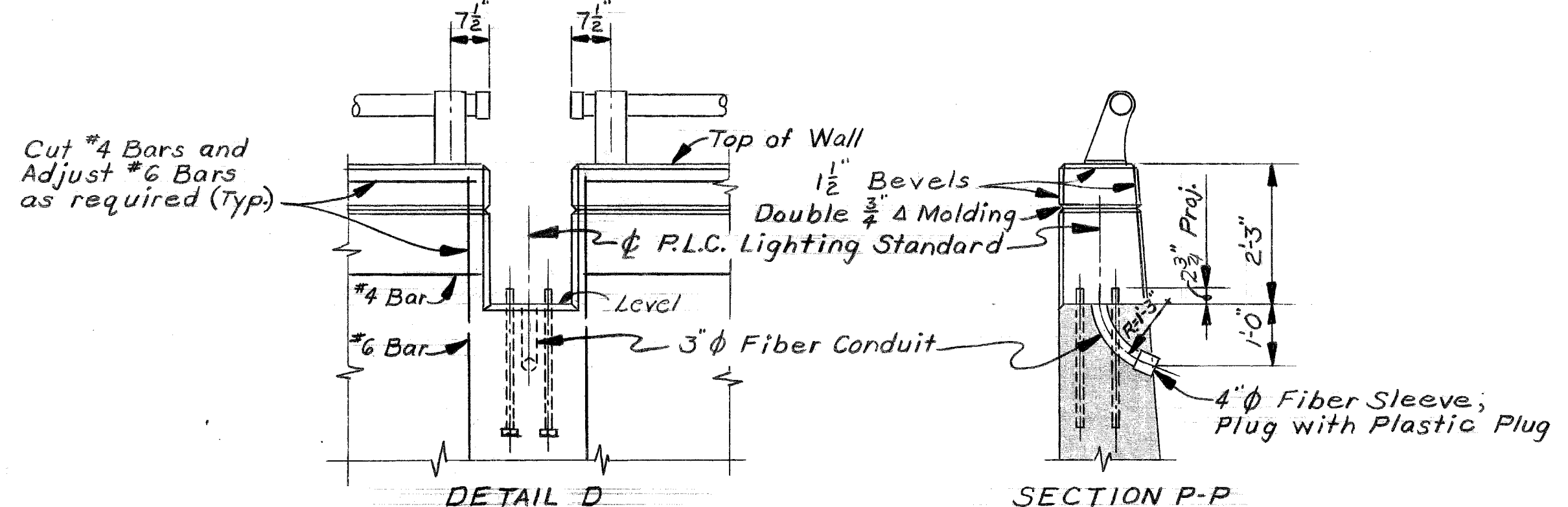
EXPANSION JOINT DETAIL AND SECTION U-U

METAL BULKHEAD FOR WALL STEM CONSTRUCTION JOINT

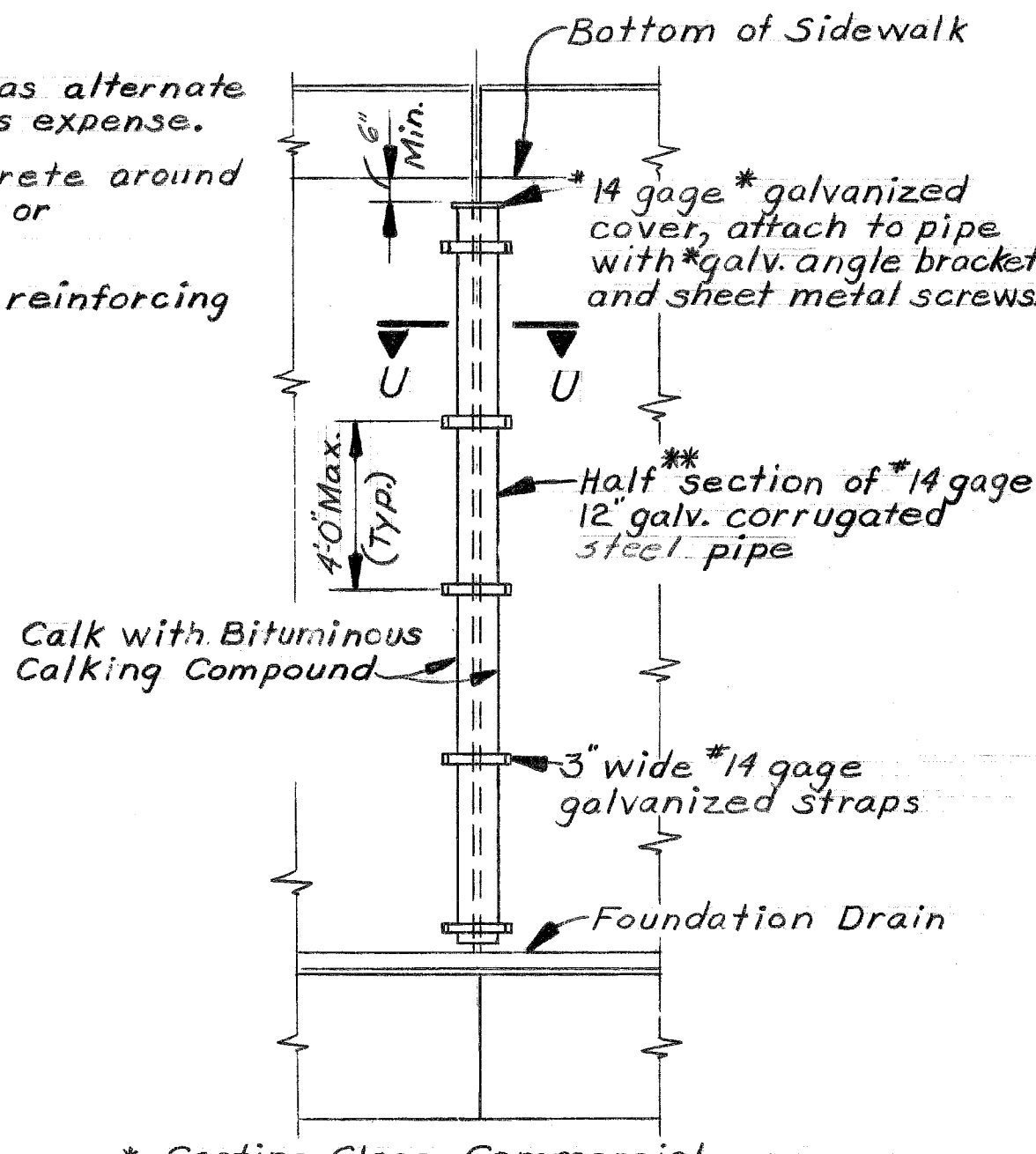


PLAN OF TOP

NOTE:
 The metal bulkhead may be used as alternate construction joint at contractors 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.

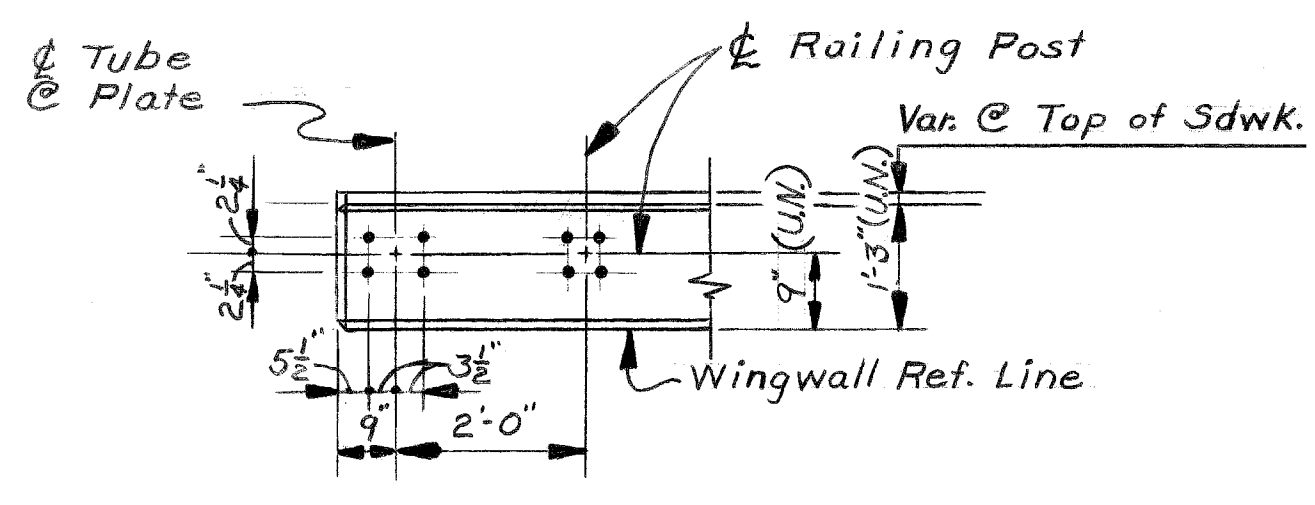
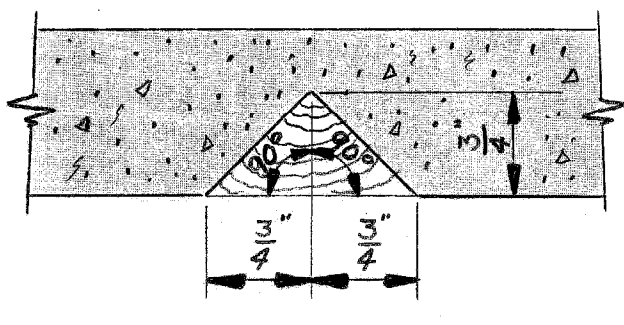


DETAILS OF P.L.C. LIGHTING STANDARD BASE



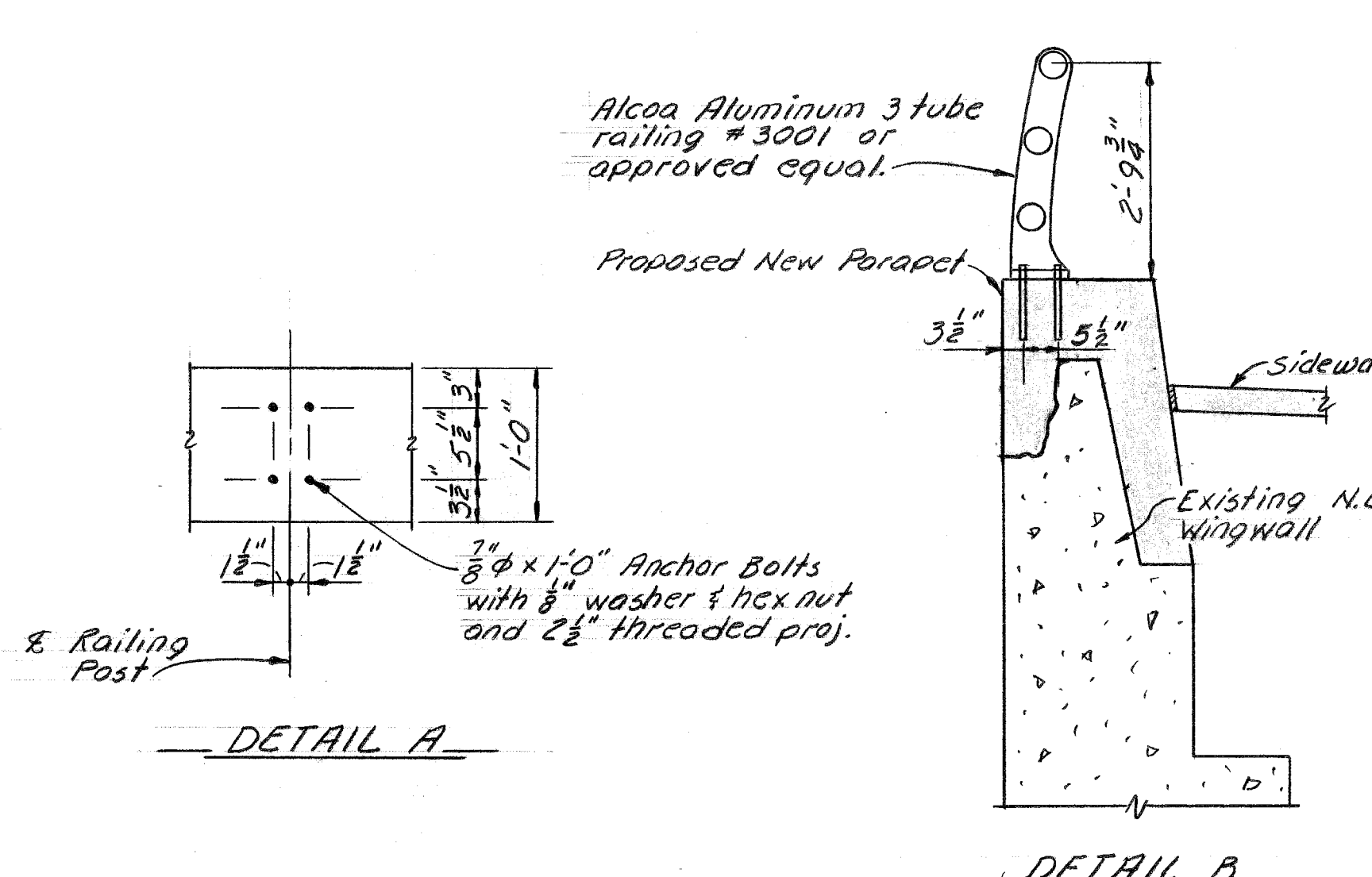
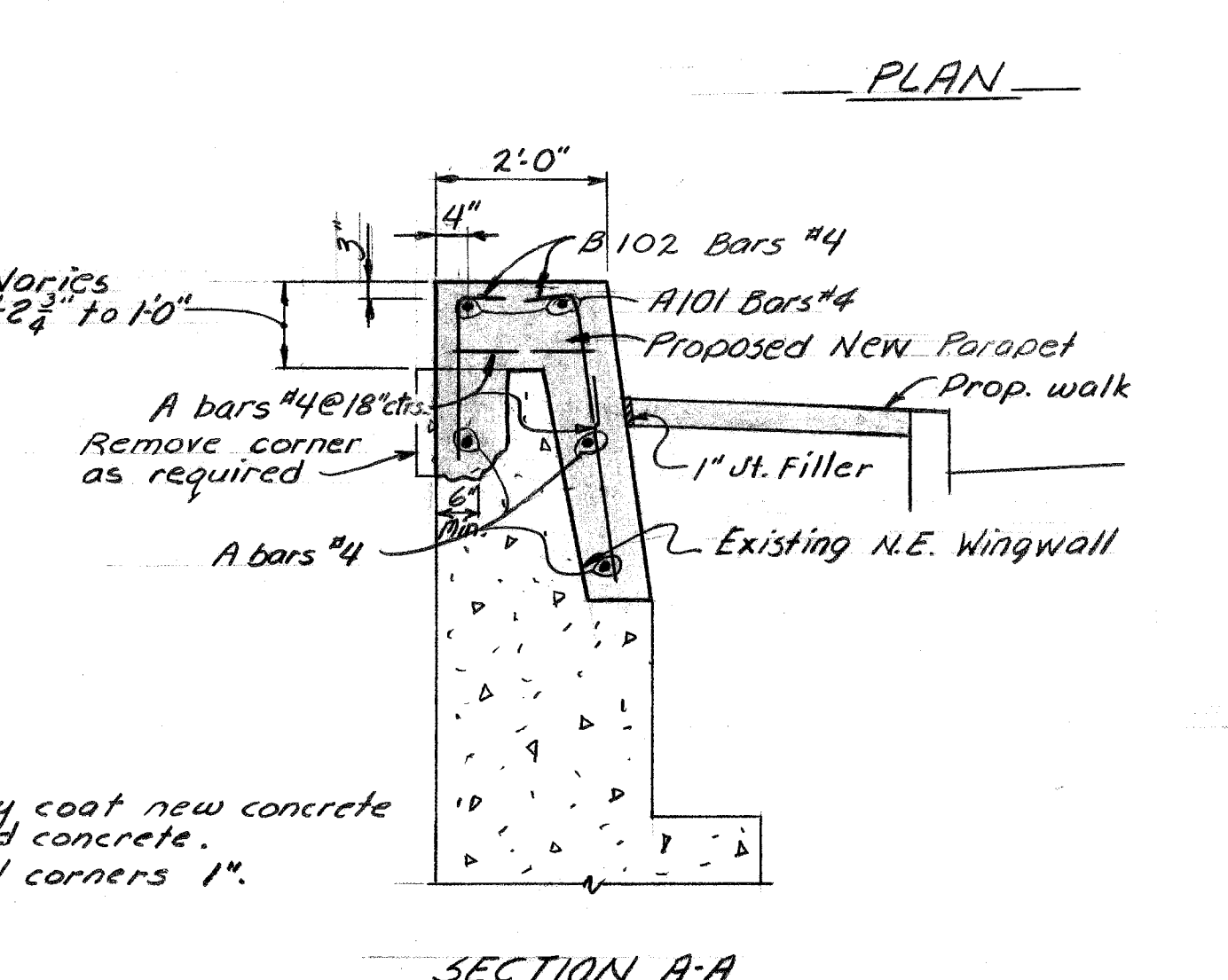
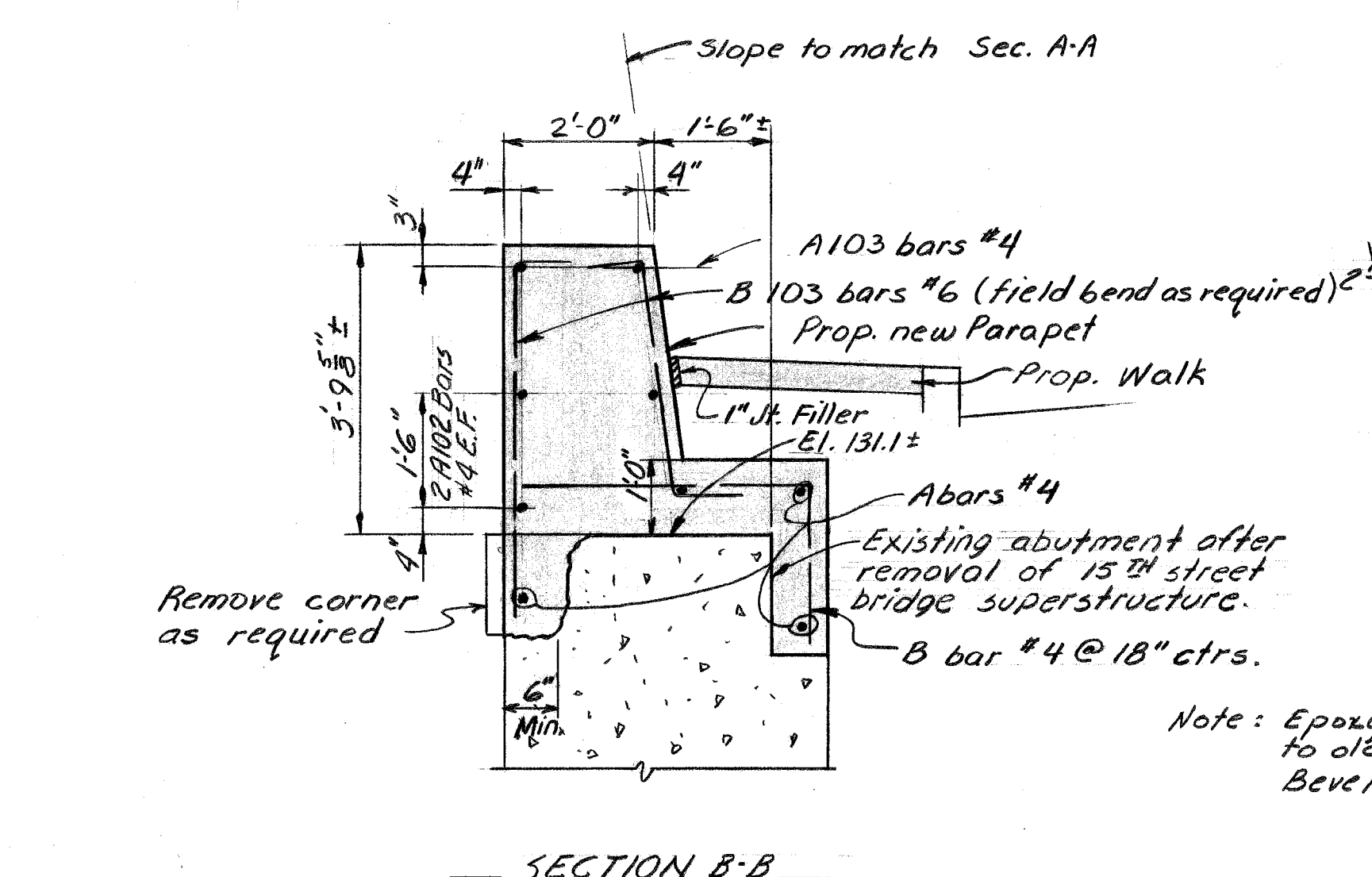
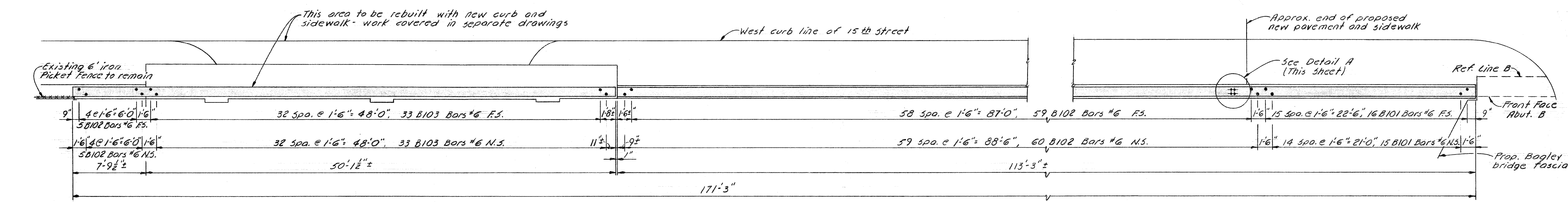
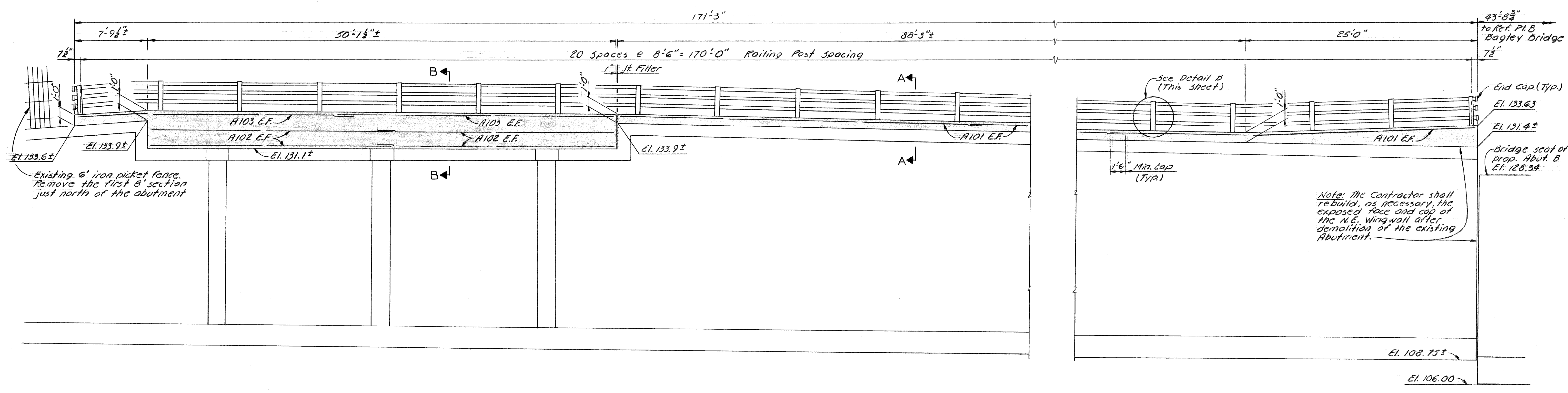
* Coating Class Commercial
 ** Use Quarter Section @ North End of Abut. B

DOUBLE 3/4\"/>



RAILING POST ANCHOR BOLT DETAILS

DESIGNED BY <i>M. Snie</i>	APPROVED: _____ STRUCTURAL ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	WEST SIDE INDUSTRIAL REHABILITATION PROJECT No.2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.	SHEET 19 OF 26 SHEETS
DRAWN BY <i>R. Rosik</i>	_____ HEAD CIVIL ENGINEER			CONTRACT No. PW 6552
TRACED BY	_____ CIVIL ENGINEER	ABUTMENT AND WINGWALL DETAILS	DRWG No. 518	DATE 10-73
CHECKED BY <i>M.C.</i>	_____ CIVIL ENGINEER			



GENERAL NOTES:

N.S. denotes near side, F.S. denotes far side and E.F. denotes each face.

Aluminum alloy for posts is to be A.S.T.M. A 356-T6, AA5HO Designation: M193.

Bolts, nuts and washers shall be galvanized steel A.S.T.M. A153.

Anchor bolts shall meet the requirements of A.S.T.M. A307 Grade A regular square heads and hexagonal nuts.

Nuts for anchor bolts are to be tapped .015" oversize from Class 2B tolerance prior to galvanizing.

Bolt threads are not to be subjected to use of a finishing tool or wire brush after galvanizing.

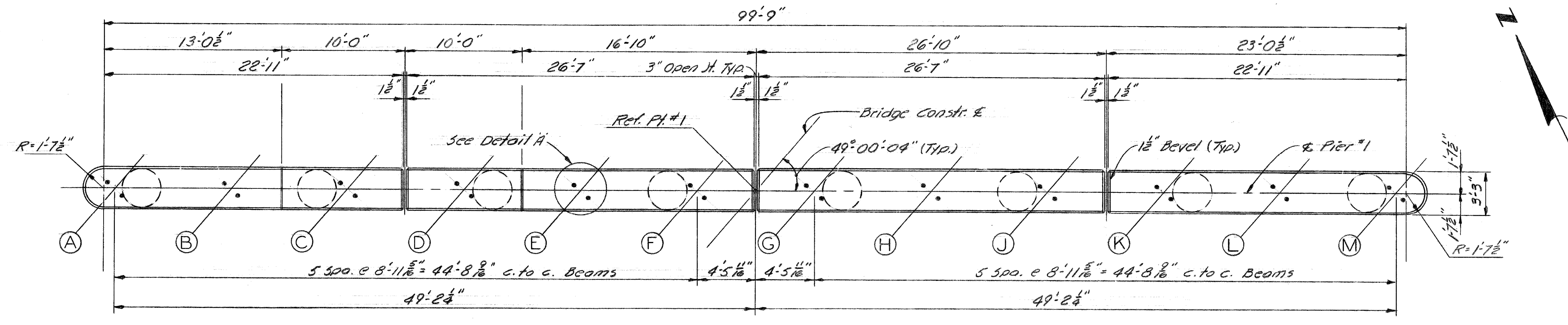
Ends of tube sections are to be located within posts, and with a maximum of 1" between adjacent ends.

Aluminum posts shall be set perpendicular to the top of parapet.

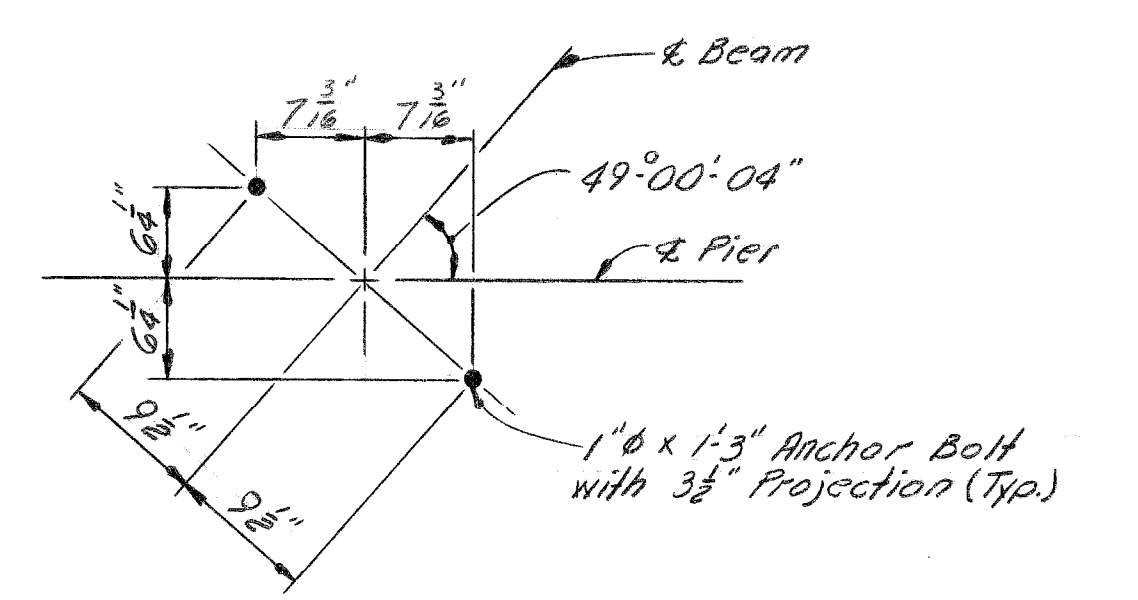
Adjust the spacing of the reinforcing steel as required to permit placing of anchor bolts.

All vertical and top concrete surfaces are to be given a rubbed surface finish. Concrete is to be grade 355(6AA).

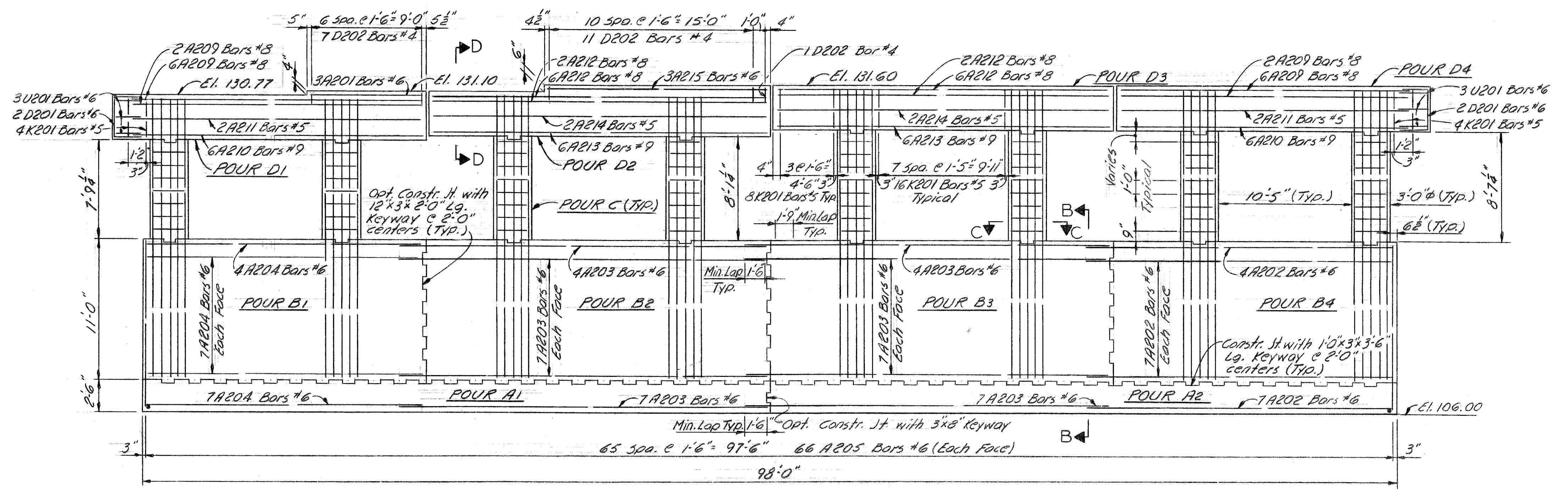
<p>A Revised Sec's A & B to meet field conditions at ex. walls.</p>		<p>DESIGNED BY: <i>[Signature]</i></p>	<p>APPROVED: <i>[Signature]</i></p>	<p>CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT</p>	<p>WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO. 2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.</p>	<p>SHEET 20 OF 26 SHEETS</p>
<p>REVISIONS LOCATED BY COORDINATES ON SHEET</p>		<p>DRAWN BY: <i>[Signature]</i></p>	<p>STRUCTURAL ENGINEER</p>			<p>CONTRACT No. PW 6552</p>
		<p>TRACED BY: A.G.</p>	<p>HEAD CIVIL ENGINEER</p>		<p>N.E. WINGWALL PARAPET DETAILS</p>	<p>DATE 10-73</p>
		<p>CHECKED BY: J.M. Guire</p>	<p>CITY ENGINEER</p>			



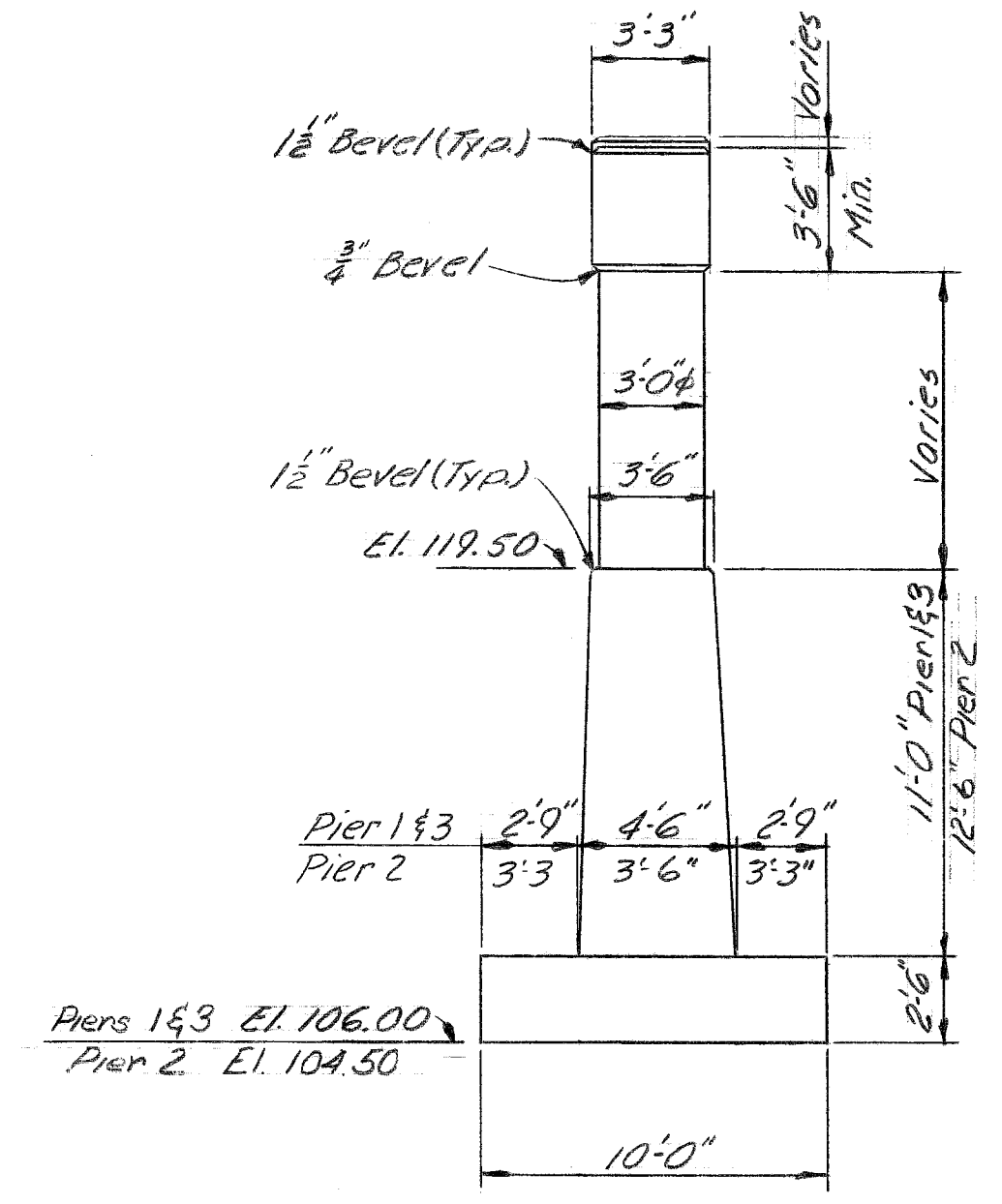
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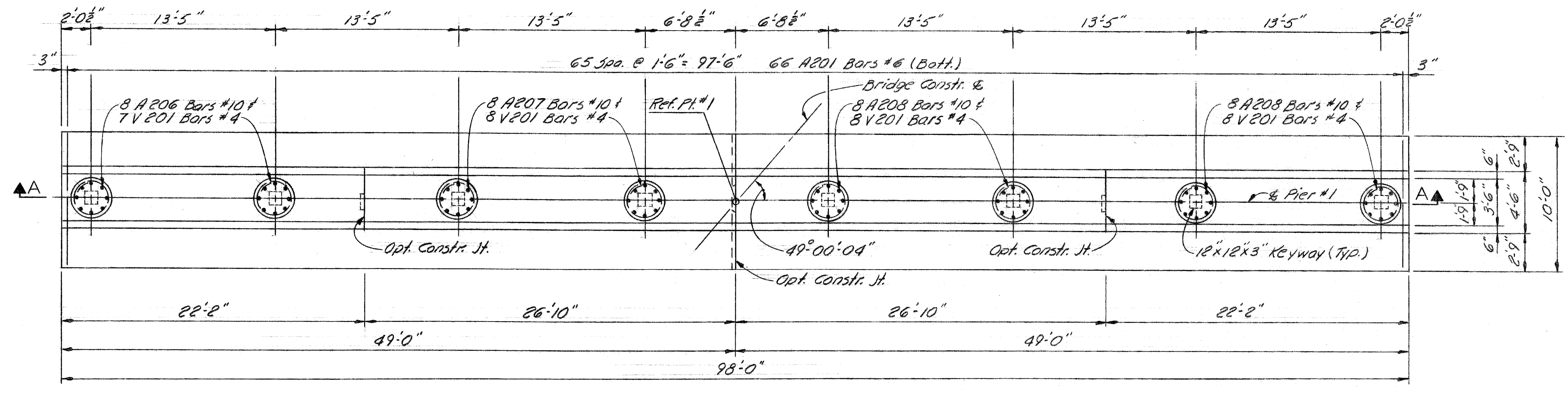
DETAIL A



SECTION A-A



END VIEW

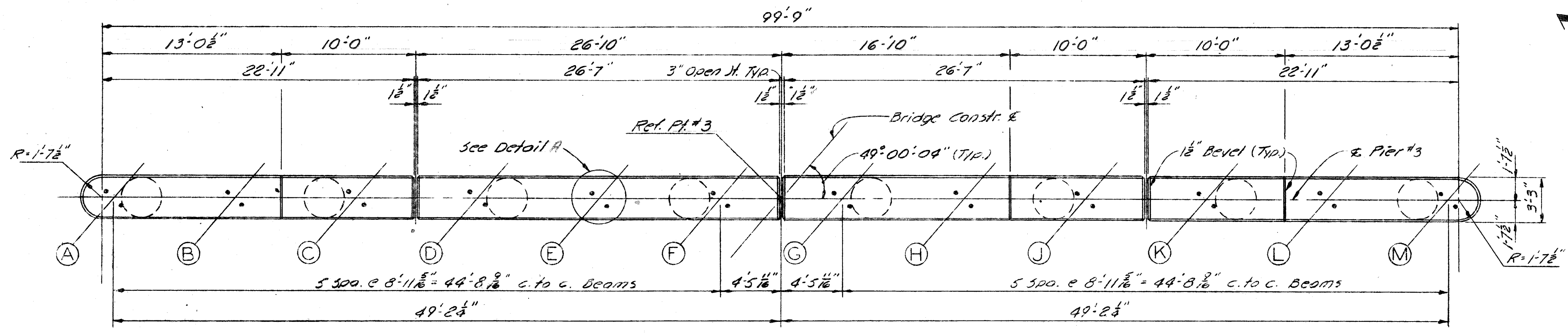


PLAN OF FOOTING

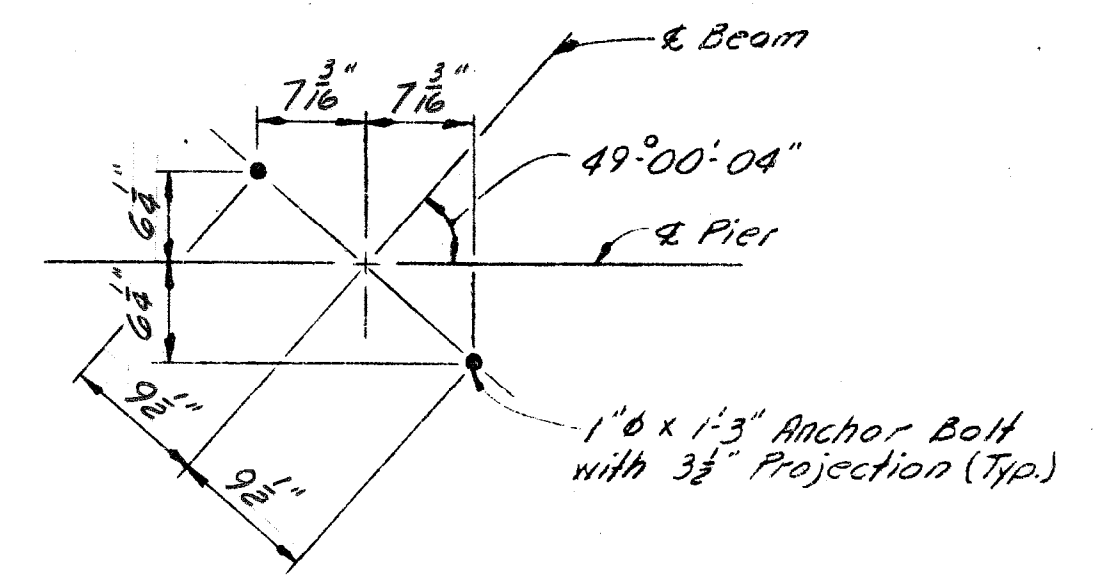
GENERAL NOTES:

- Adjust the spacing of the reinforcing steel as required to permit placing of anchor bolts.
- Clear protective coating for substructure concrete is to be applied to the complete area of the pier concrete above footings.
- Maximum average foundation pressure D.L. only = 2600 lb/sq. ft. Maximum foundation pressure D.L. and L.L. = 3800 lb/sq. ft.
- Drilling holes for anchor bolts not permitted.
- High-early-strength concrete shall be used for all pours on Pier #2. Rail traffic should not be allowed adjacent to any pour for at least 24 hours.

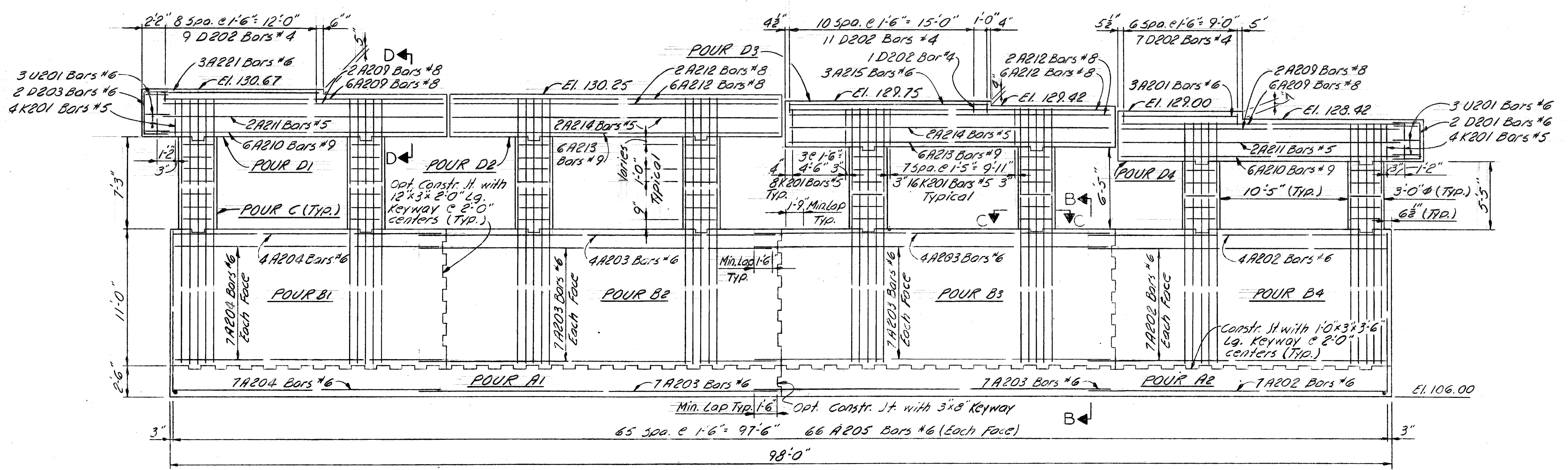
DESIGNED BY: M.C. DRAWN BY: A.G. TRACED BY: CHECKED BY: J.M.		APPROVED: STRUCTURAL ENGINEER HEAD CIVIL ENGINEER CITY ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO. 2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.		SHEET 21 OF 26 SHEETS CONTRACT No. PW 6552 DRWG No. 520 DATE 10-73	
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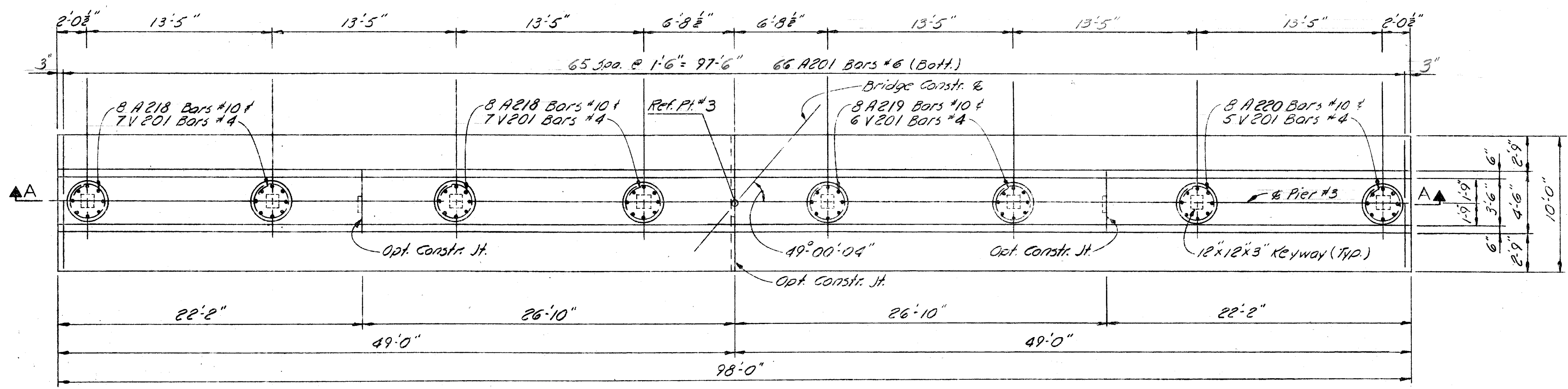
PLAN OF TOP



DETAIL A

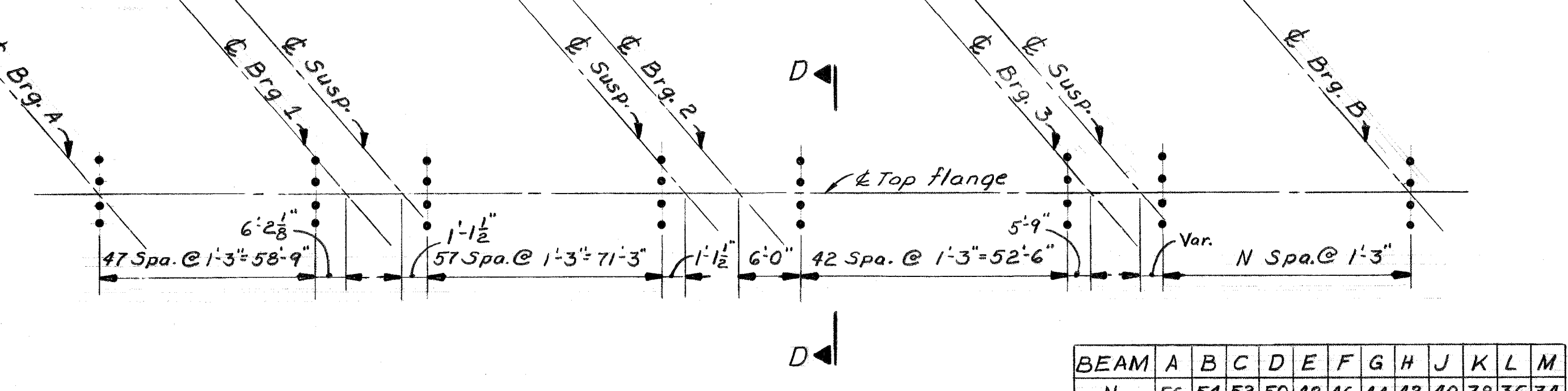
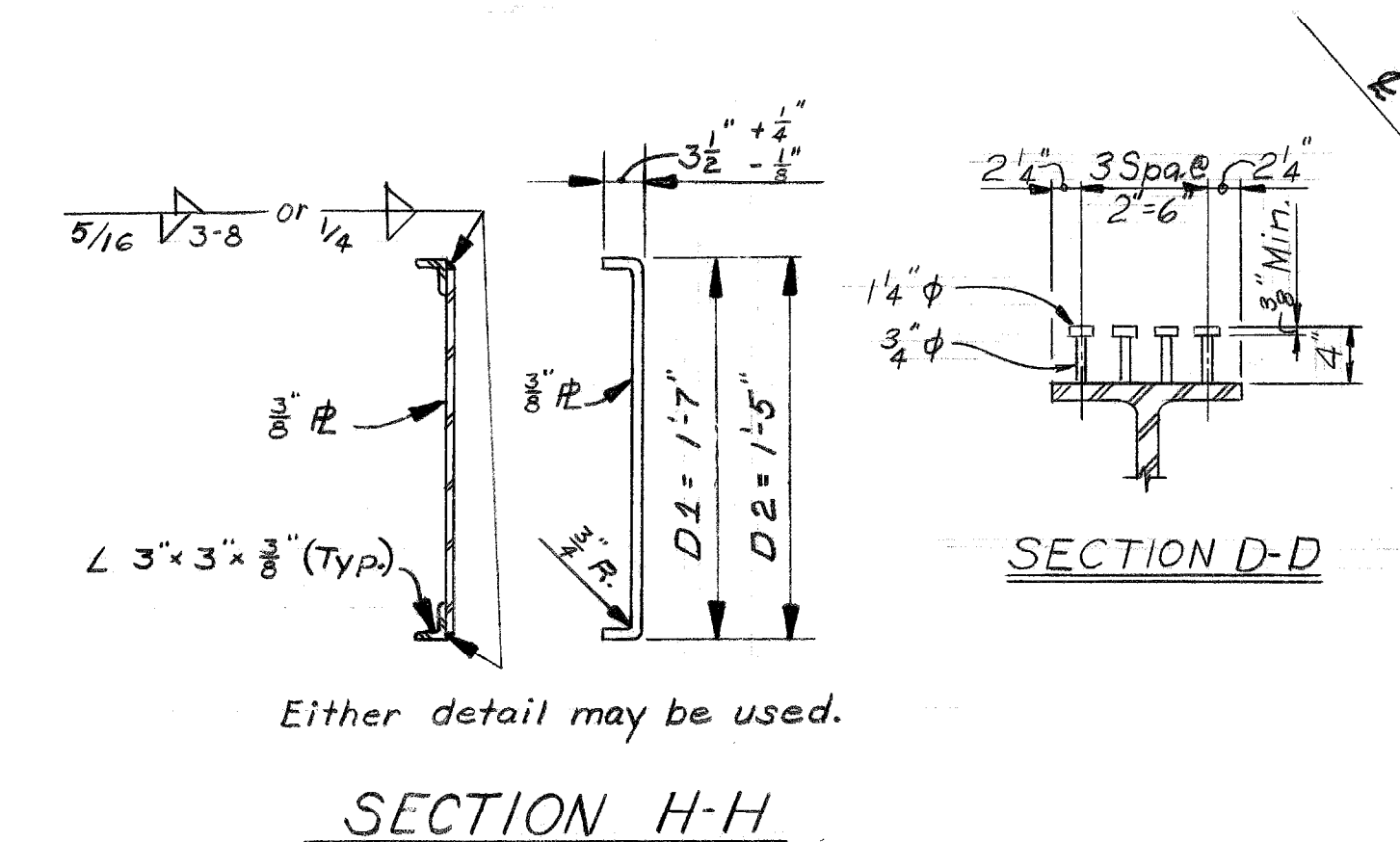
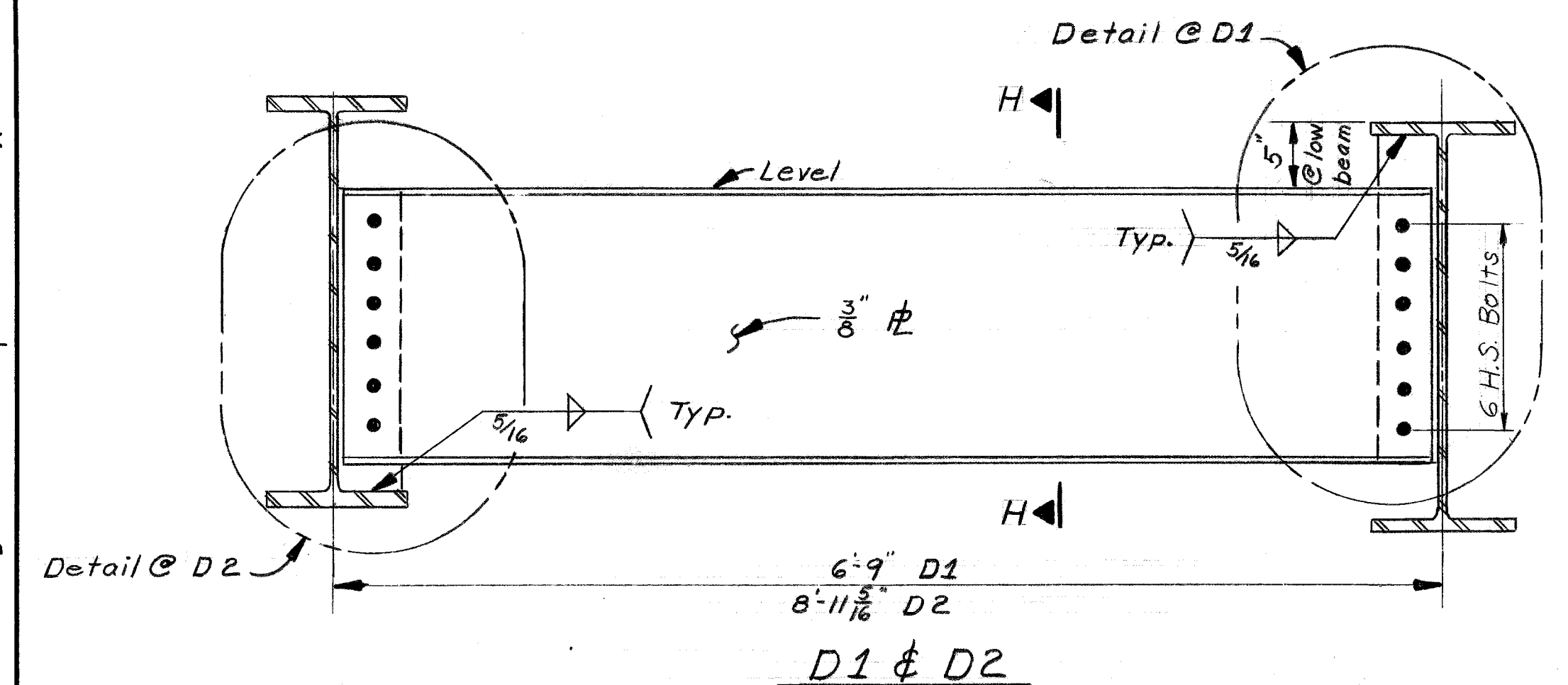


SECTION A-A

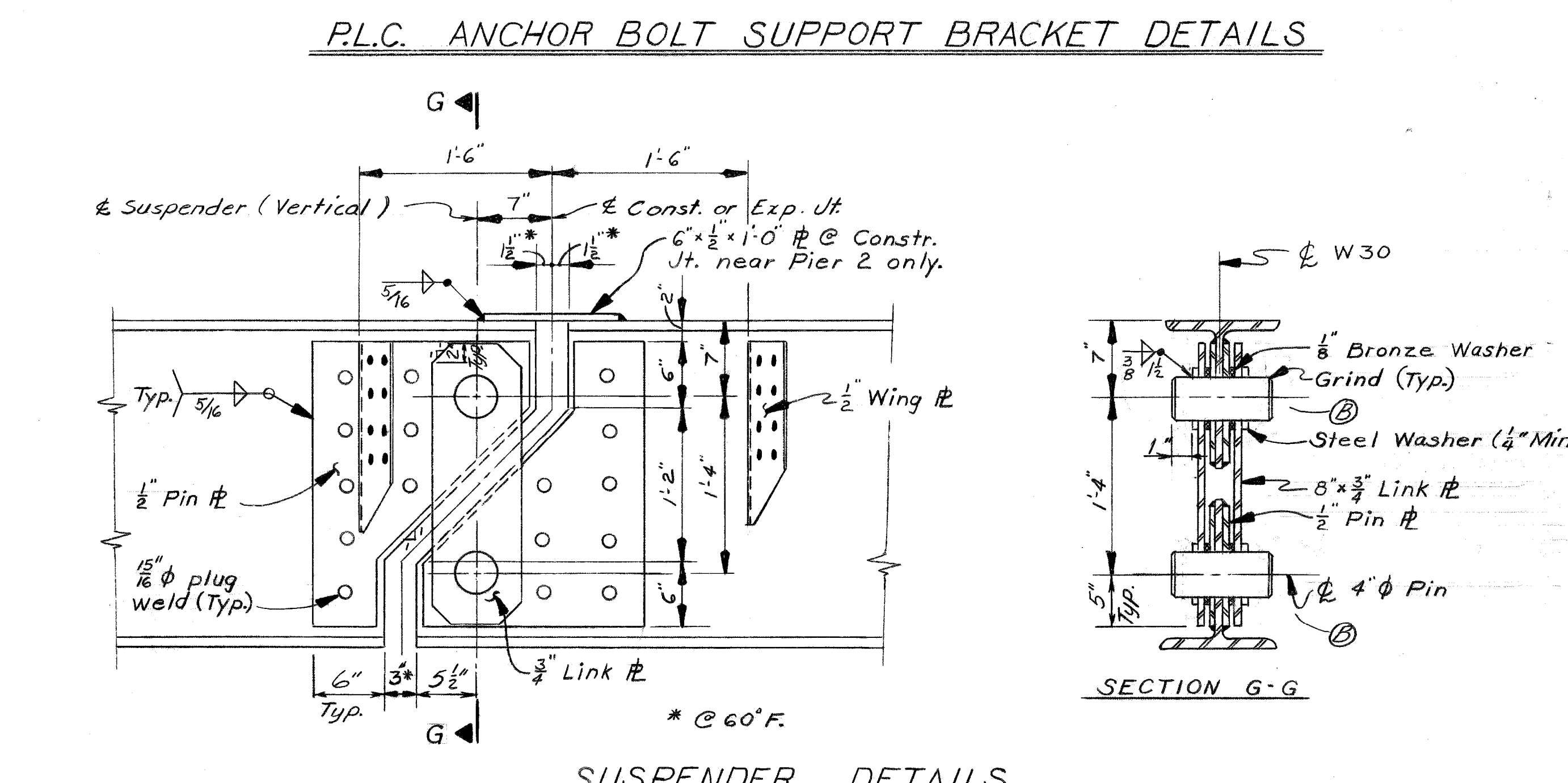
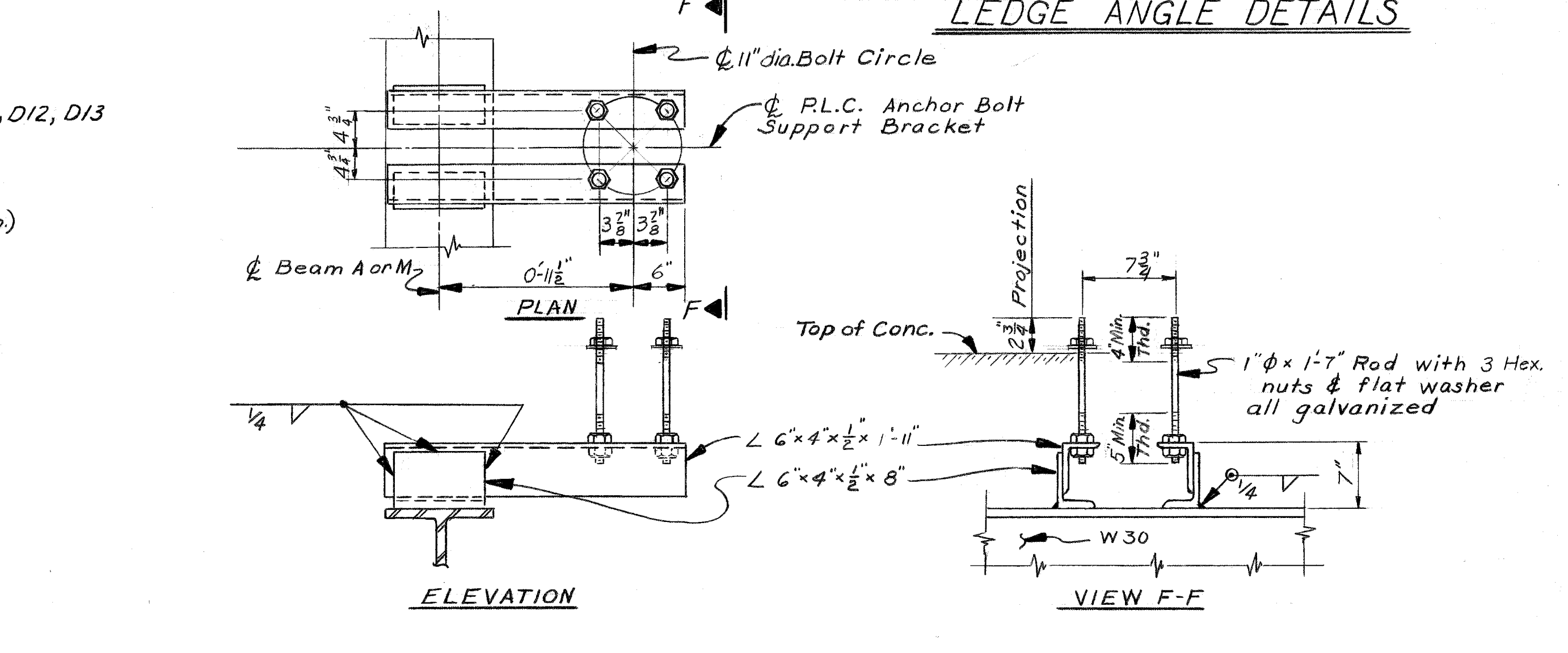
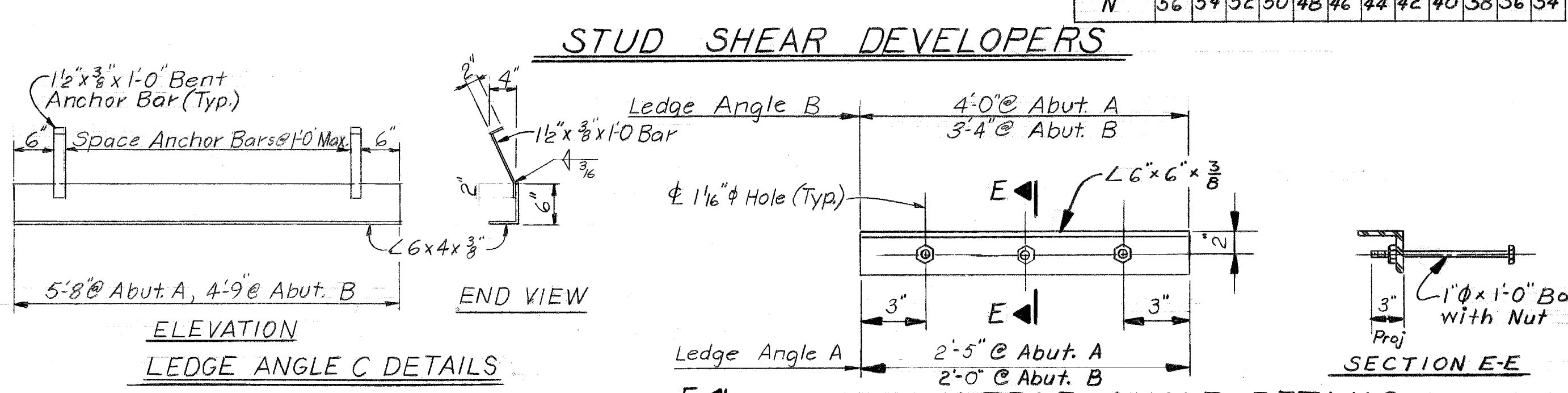
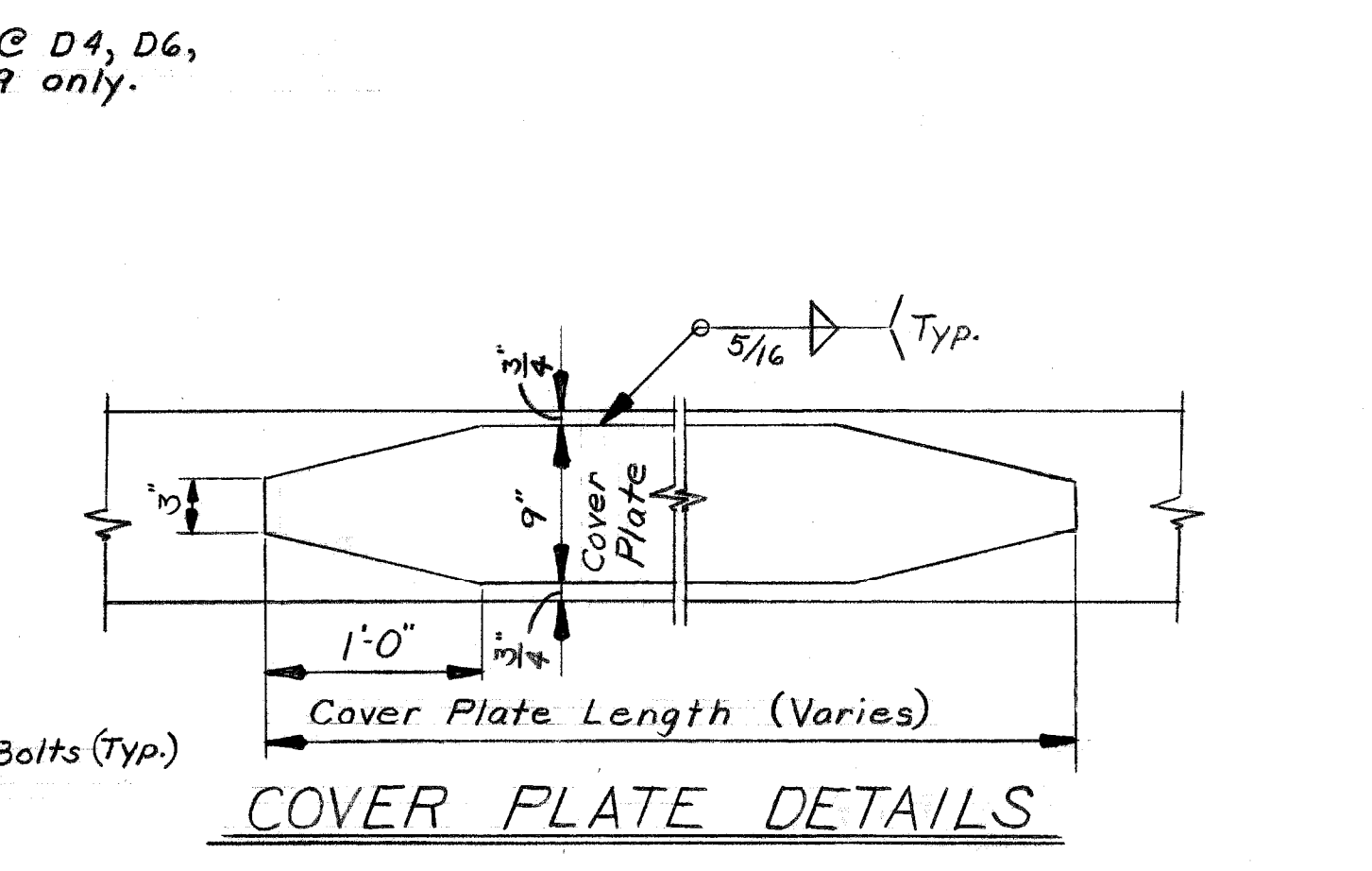
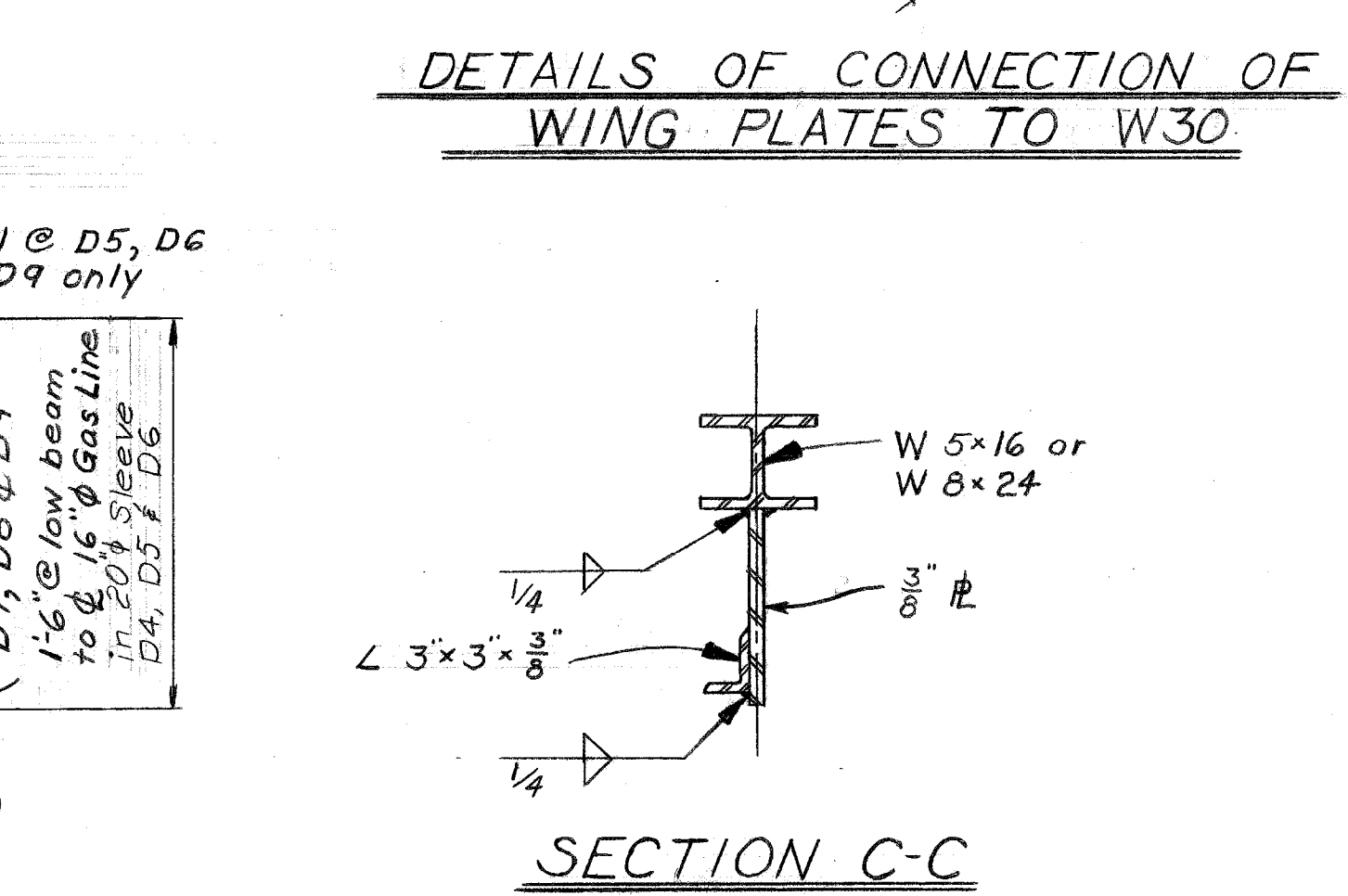
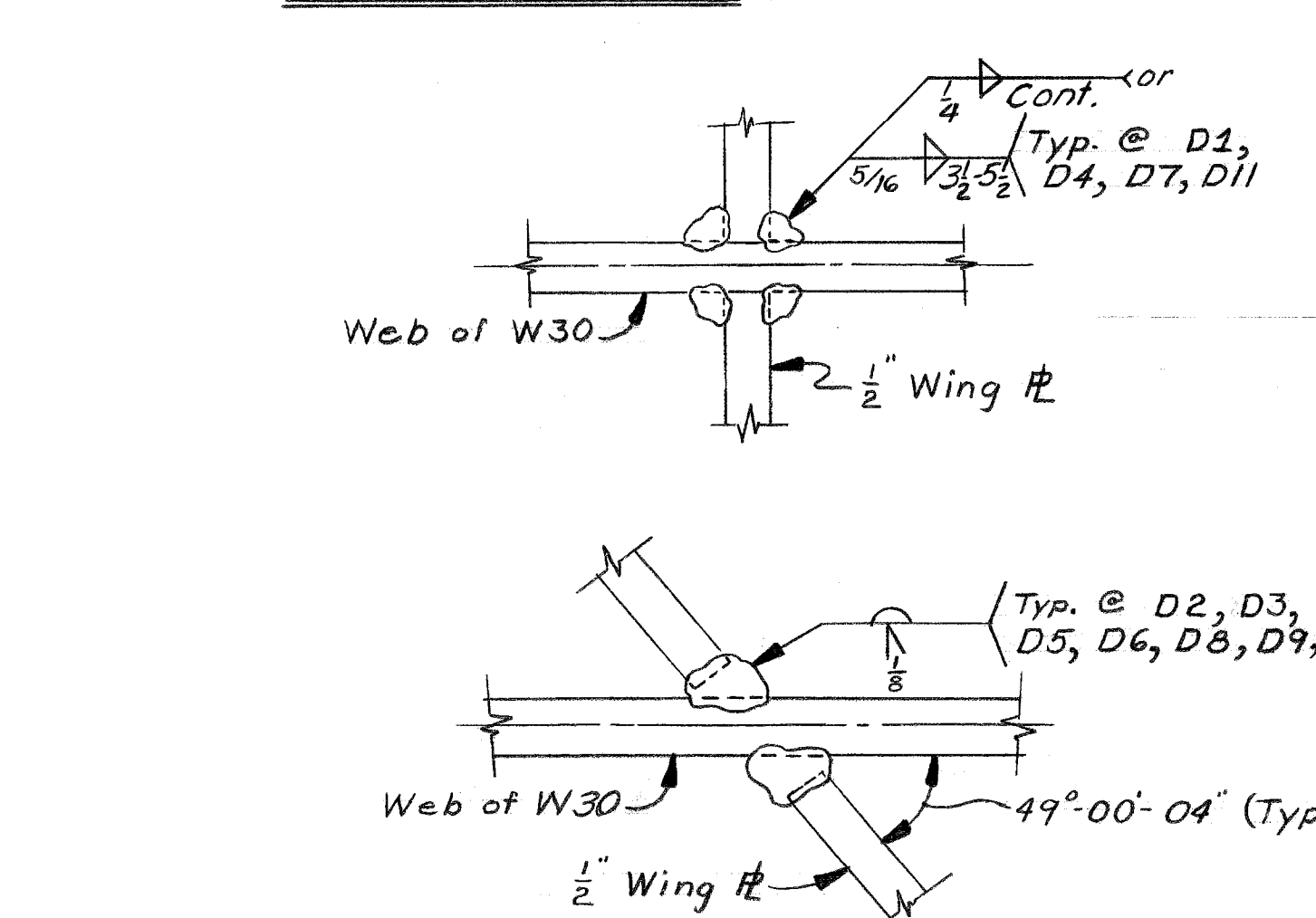
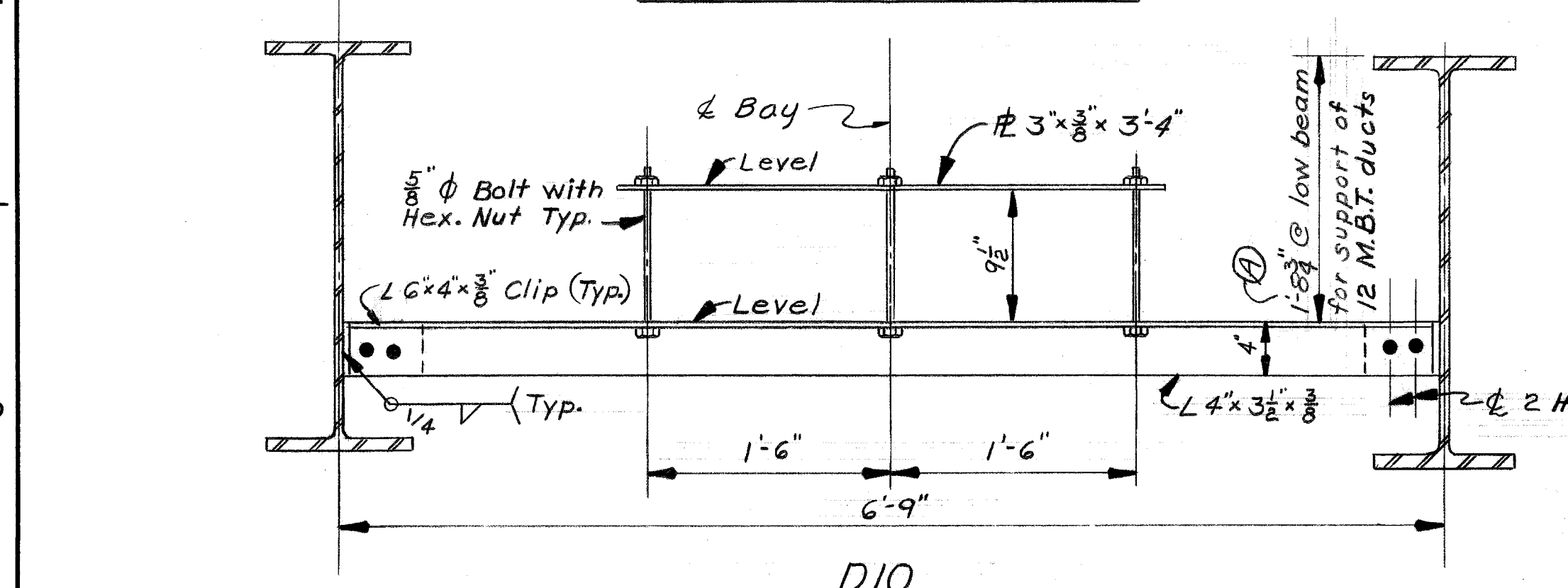
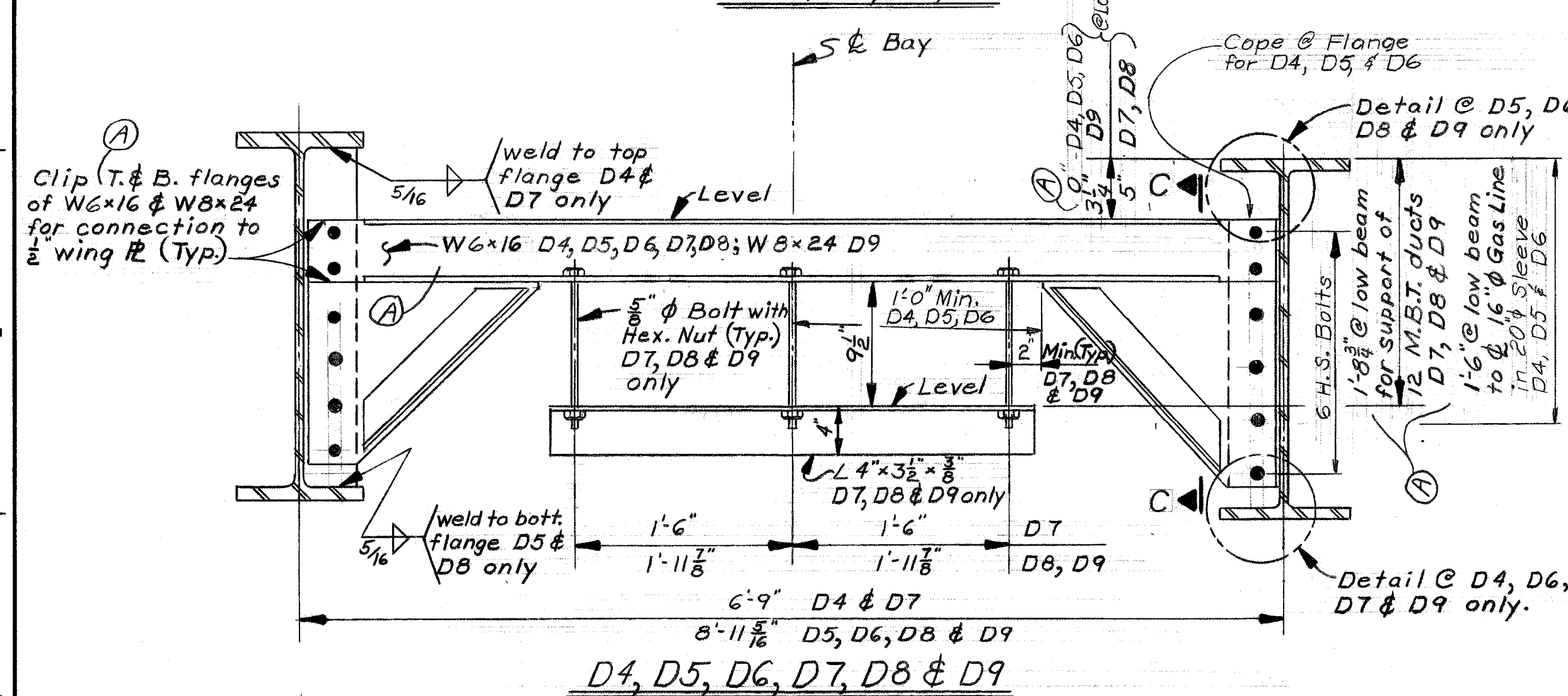
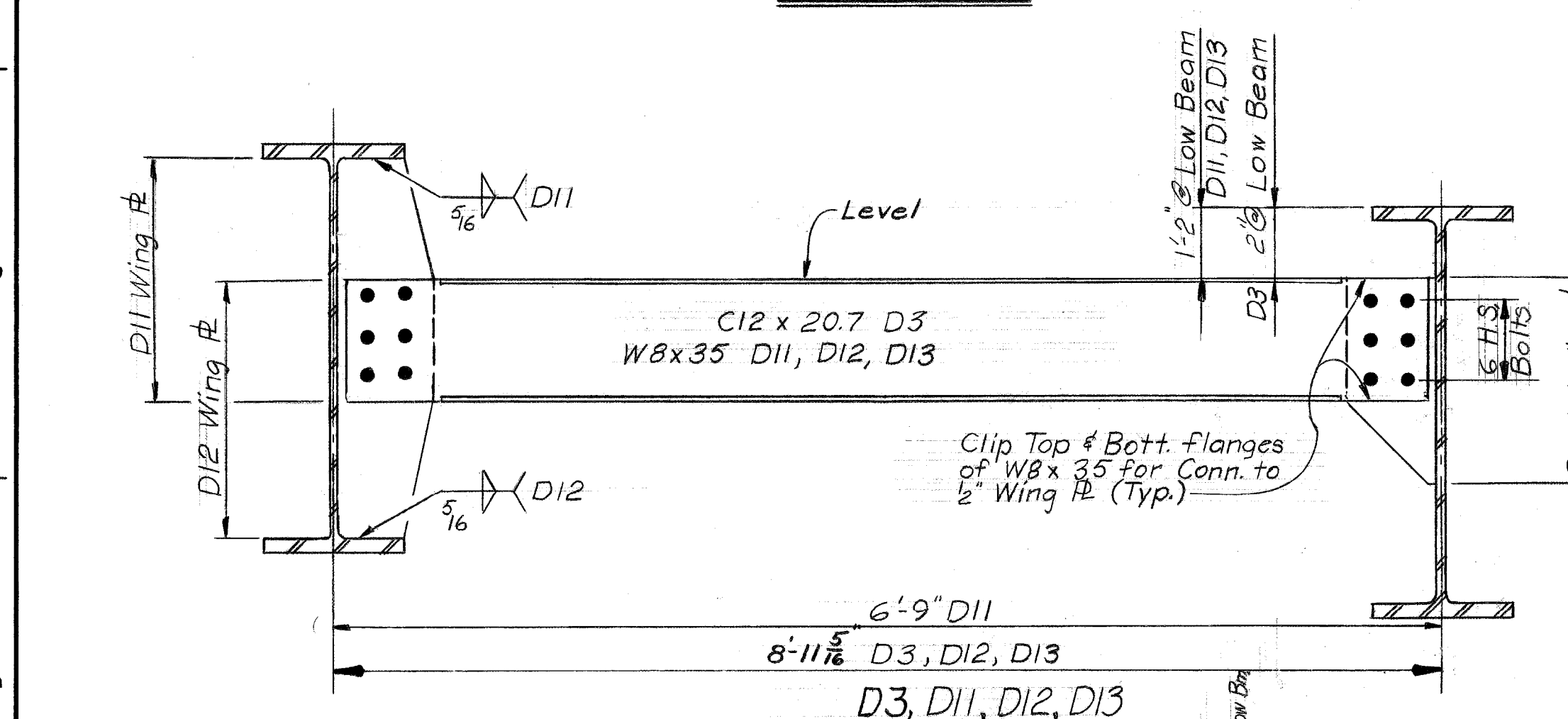


PLAN OF FOOTING

DESIGNED BY M.C. DRAWN BY A.G. TRACED BY CHECKED BY J.M.		APPROVED: STRUCTURAL ENGINEER HEAD CIVIL ENGINEER CIVIL ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO. 2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.		SHEET 23 OF 26 SHEETS CONTRACT NO. PW 6552 DRWG No. 522 DATE 10-73	
REVISIONS LOCATED BY COORDINATES ON SHEET						PIER DETAILS			



BEAM	A	B	C	D	E	F	G	H	J	K	L	M
N	56	54	52	50	48	46	44	42	40	38	36	34



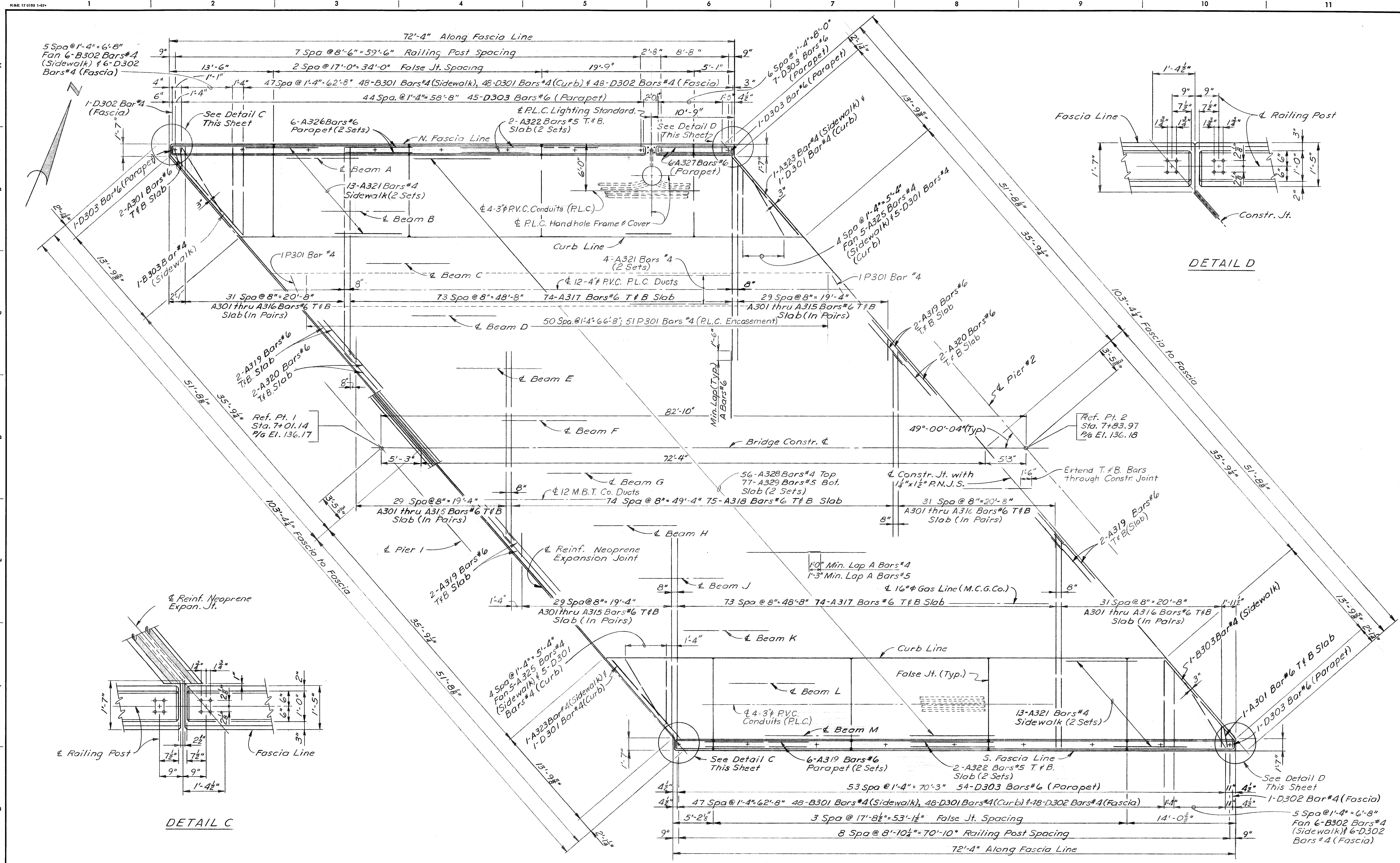
A	D4-D9 clip W5x16 to W6x16 & offset Dim. per detailer request	1/17/76
B	Approved 5/16 washers @ susp. pins instead of cotter pins	1/17/76

DESIGNED BY		APPROVED:	
DRAWN BY		STRUCTURAL ENGINEER	
TRACED BY	R. Rosik	HEAD CIVIL ENGINEER	
CHECKED BY		CITY ENGINEER	

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
CITY ENGINEERS OFFICE
FOR
COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT

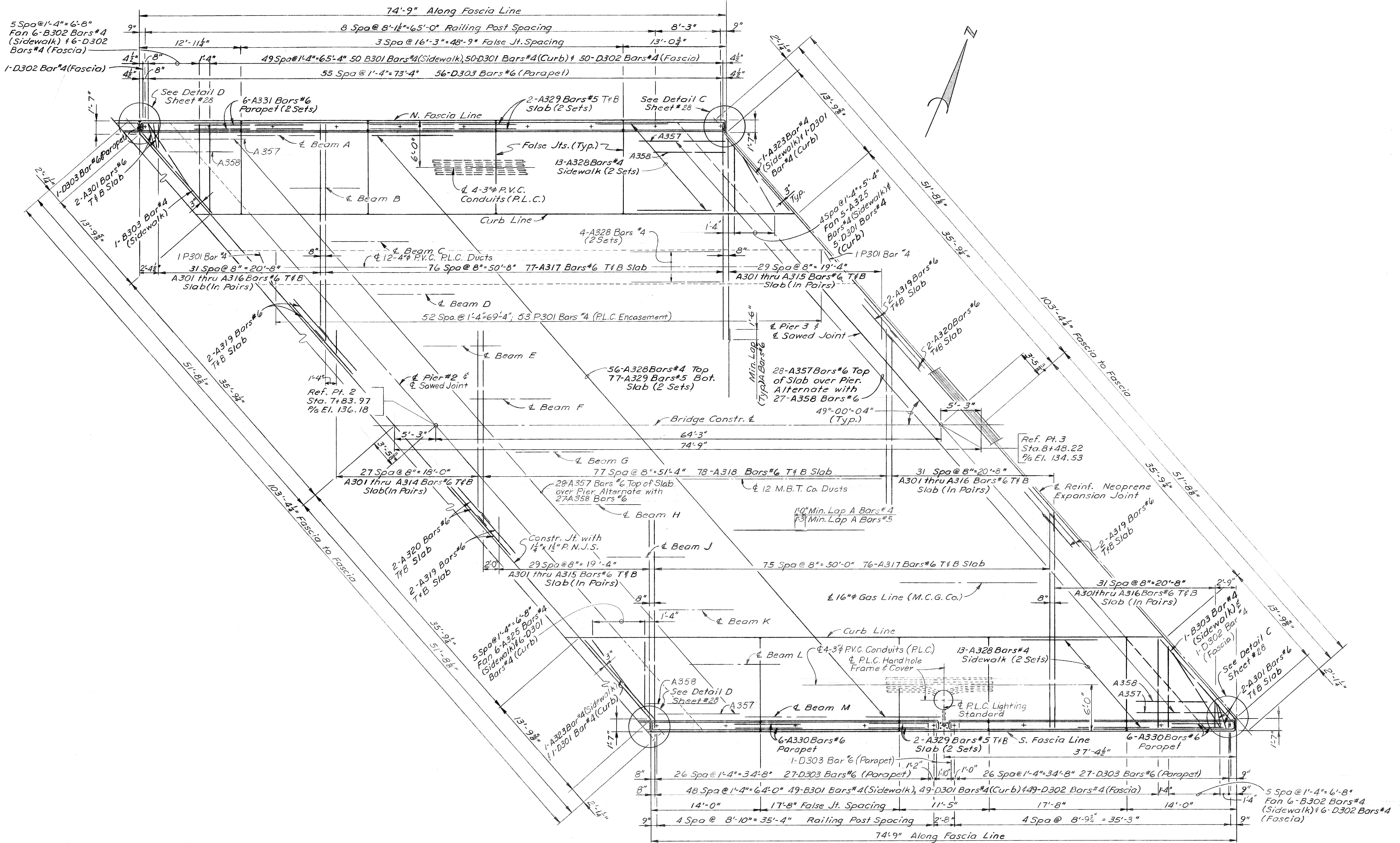
WEST SIDE INDUSTRIAL REHABILITATION PROJECT No.2
BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.
STRUCTURAL STEEL DETAILS

SHEET	26	OF	96	SHEETS
CONTRACT No.	PW 6552			
DRWG No.	525			
DATE	10-73			

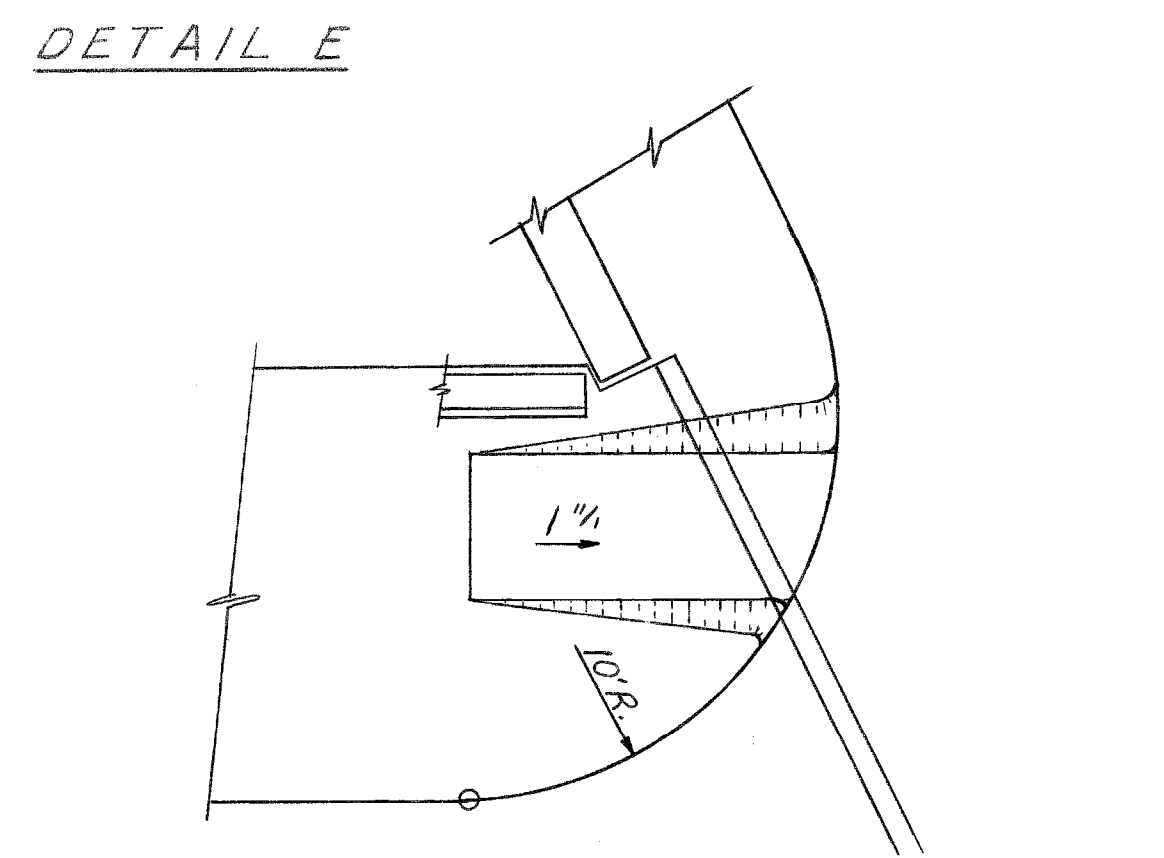
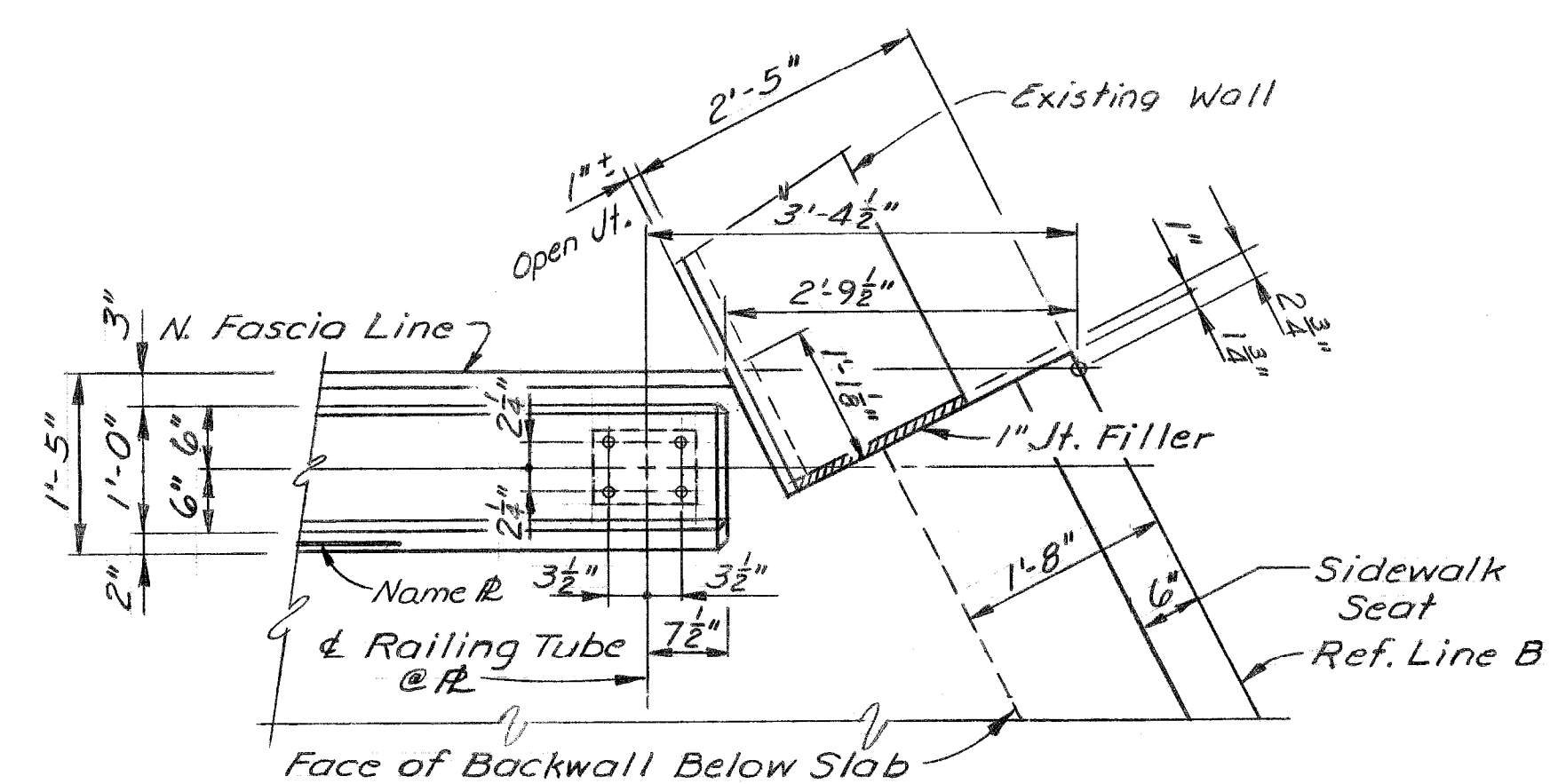
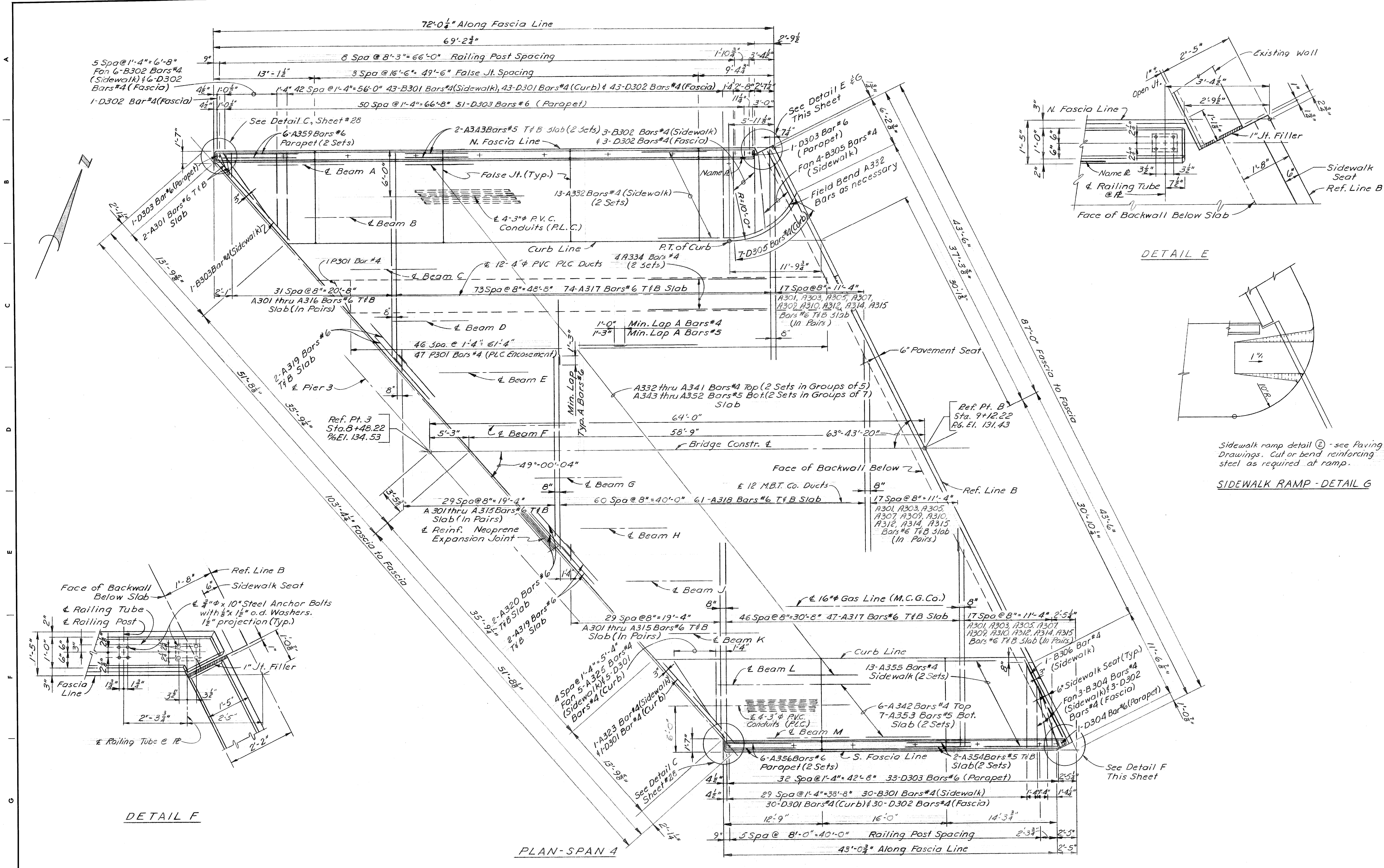


PLAN-SPAN 2

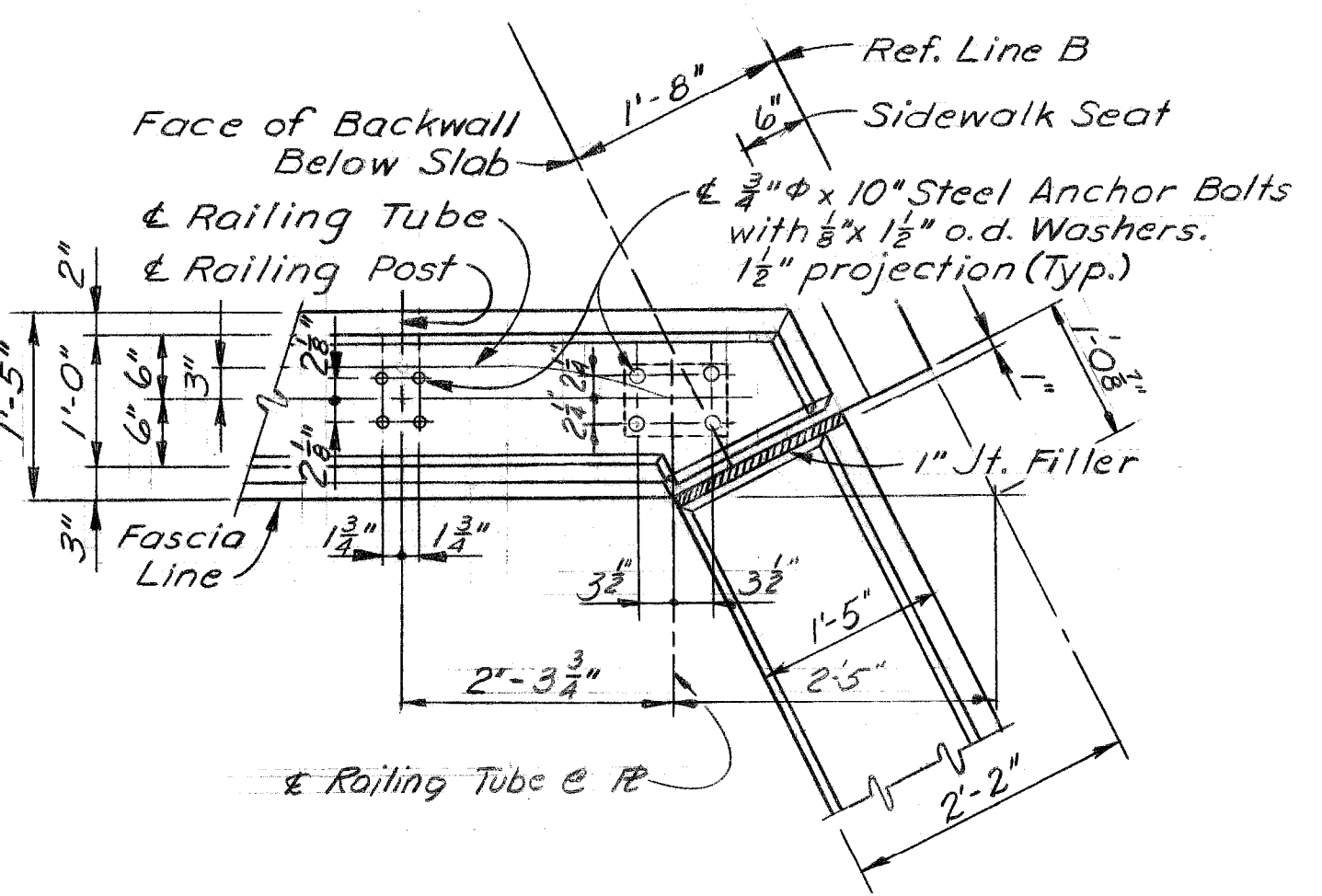
DESIGNED BY: <i>M. Guie</i> DRAWN BY: <i>R. Harris</i> TRACED BY: CHECKED BY: <i>J. M.</i>		APPROVED: _____ STRUCTURAL ENGINEER _____ HEAD CIVIL ENGINEER _____ CITY ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO. 2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R. SUPERSTRUCTURE DETAILS		SHEET 28 OF 96 SHEETS CONTRACT NO. <i>FW6552</i> DRWG No. <i>527</i> DATE <i>10-73</i>	
-----------------------------------------------------------------------------------------------------	--	-----------------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------------------------------	--	-------------------------------------------------------------------------------------------------------------------------	--	-------------------------------------------------------------------------------------------------	--



DESIGNED BY <i>M. J. J.</i> DRAWN BY <i>R. Harris</i> TRACED BY CHECKED BY <i>J. M.</i>		APPROVED: _____ STRUCTURAL ENGINEER _____ HEAD CIVIL ENGINEER _____ CITY ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		WEST SIDE INDUSTRIAL REHABILITATION PROJECT No.2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R. SUPERSTRUCTURE DETAILS		SHEET 22 OF 26 SHEETS CONTRACT NO. PW6552 DRWG No. 528 DATE 10-73	
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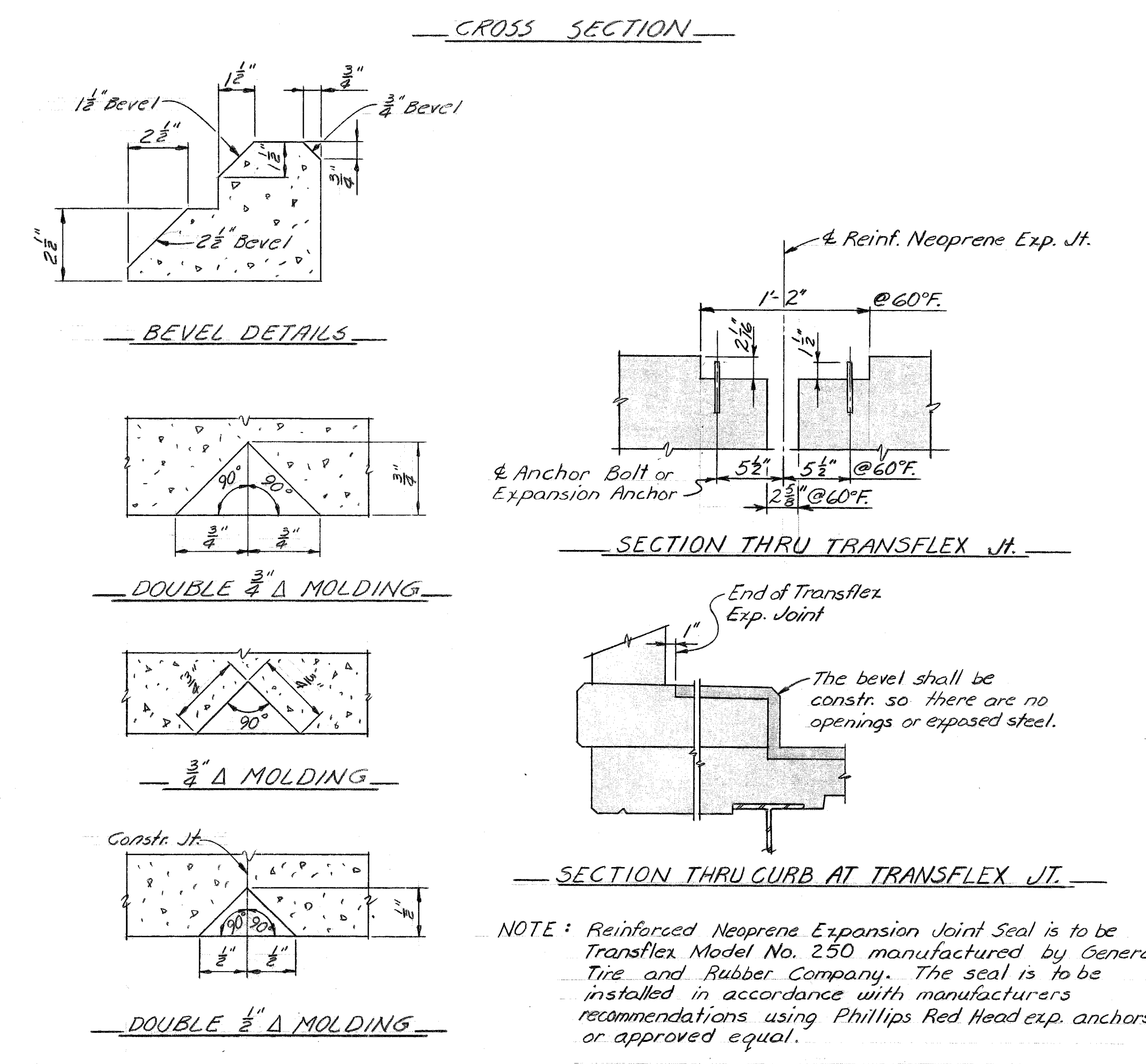
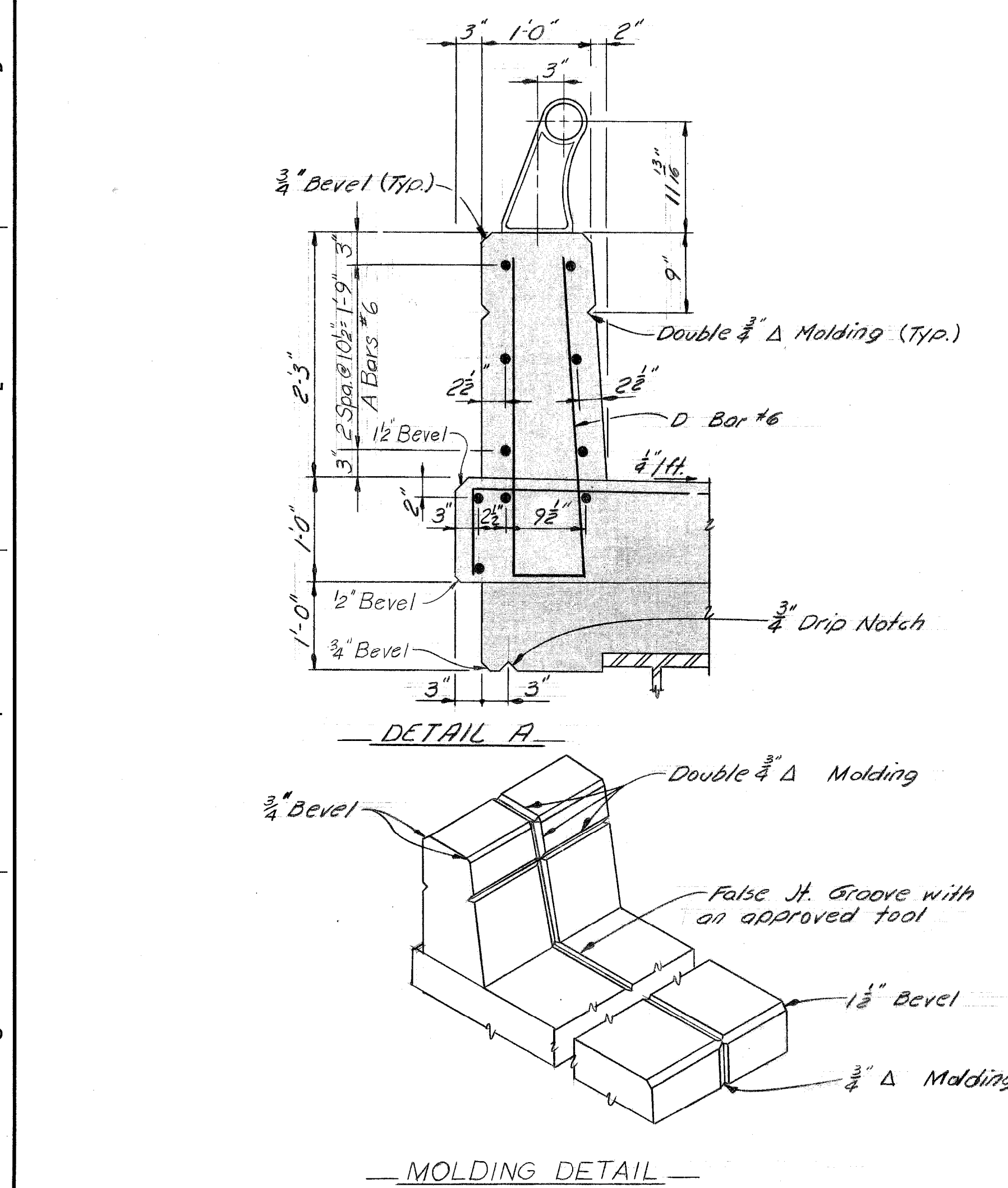
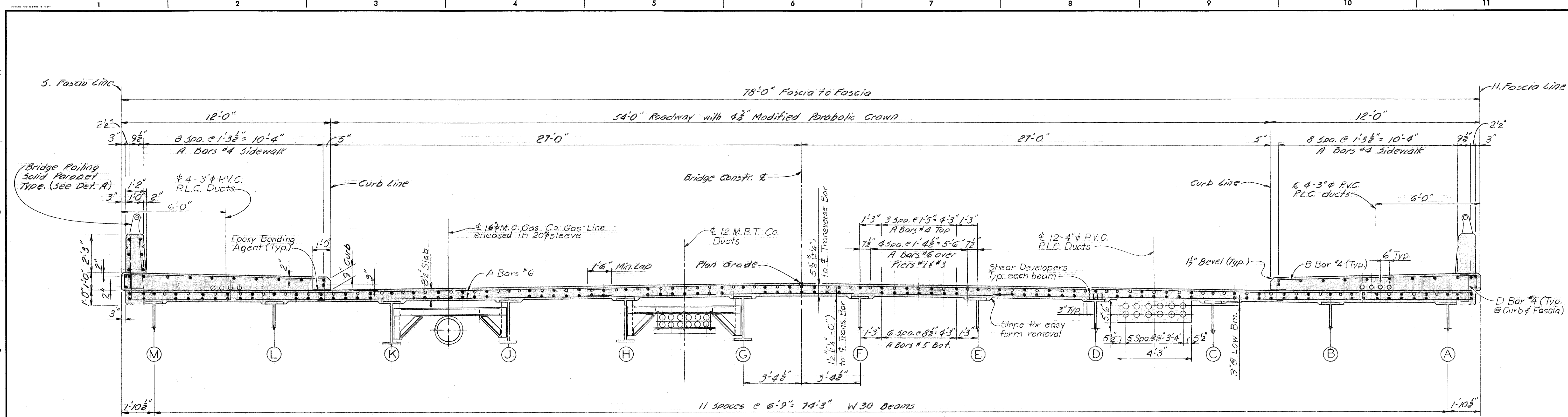
Sidewalk ramp detail (G) - see Paving Drawings. Cut or bend reinforcing steel as required at ramp.



DETAIL F

PLAN-SPAN 4

DESIGNED BY <i>M. Jure</i> DRAWN BY <i>R. Harris</i> TRACED BY CHECKED BY <i>J.M.</i>		APPROVED: _____ STRUCTURAL ENGINEER _____ HEAD CIVIL ENGINEER _____ CITY ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT			WEST SIDE INDUSTRIAL REHABILITATION PROJECT No.2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R. SUPERSTRUCTURE DETAILS			SHEET 30 OF 36 SHEETS CONTRACT NO. PN6552 DRWG NO. 529 DATE 10-73	
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GENERAL NOTES:

P.L.C. denotes Public Lighting Commission. P.V.C. denotes Polyvinyl Chloride. J.W.P. denotes Joint Waterproofing. N.F. denotes near face. F.F. denotes far face. E.F. denotes each face. T denotes Top & B denotes Bottom. H.P.R.A.T.F. denotes Hot-Poured Rubber Asphalt Type Filler. P.N.J.S. denotes Preformed Neoprene Joint Sealer.

Edge or groove denote edging or grooving with an approved tool.

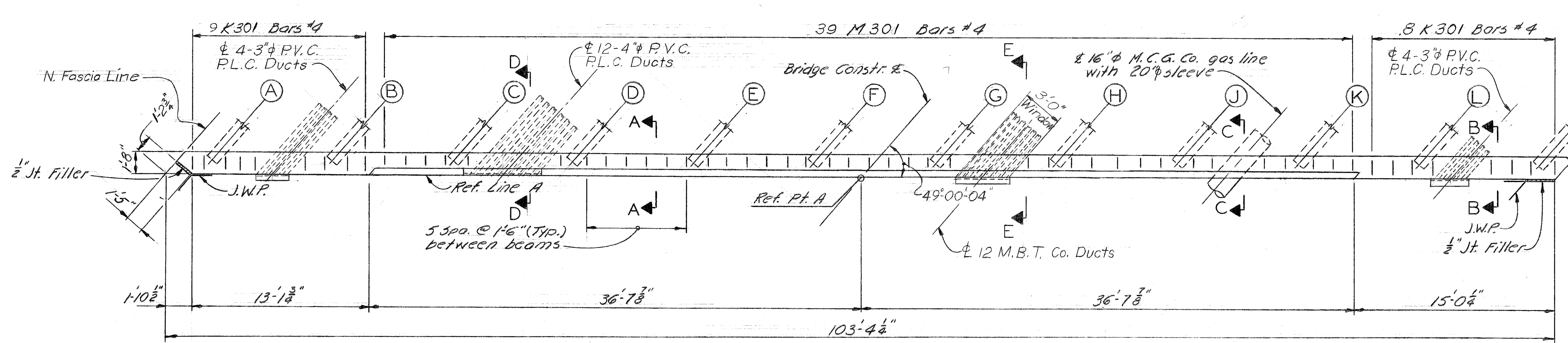
Sidewalk pours shall not be cast until slab concrete has attained at least 50% of its design strength as determined by section 7.01-4 of the standard Specifications.

The contractor is to provide a sawed joint 1/2" deep by 1/8" wide (min.) in top of slab over and parallel to the centerline of piers #1 & #3. The joint is to be sawed before casting of sidewalks and is to be filled with Hot-Poured Rubber Asphalt Type Filler. The sawing and Hot-Poured Rubber Asphalt Type Filler are incidental to superstructure concrete.

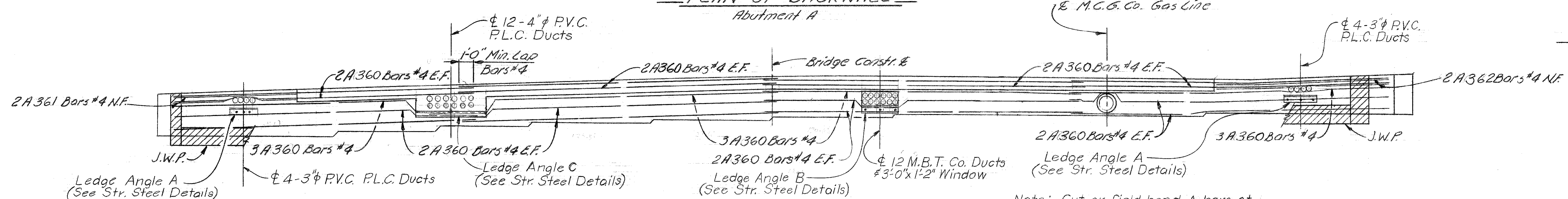
Protective Treatment for Bridge Decks is to be applied to all superstructure concrete surfaces between inside faces of parapet.

Structural Concrete shall be Air-entrained, Grade 40S with Grade 6AA aggregate. Materials and workmanship shall be in accordance with Mich. Dept. of State Highway Standard Specifications for Highway Construction-1973 Edition.

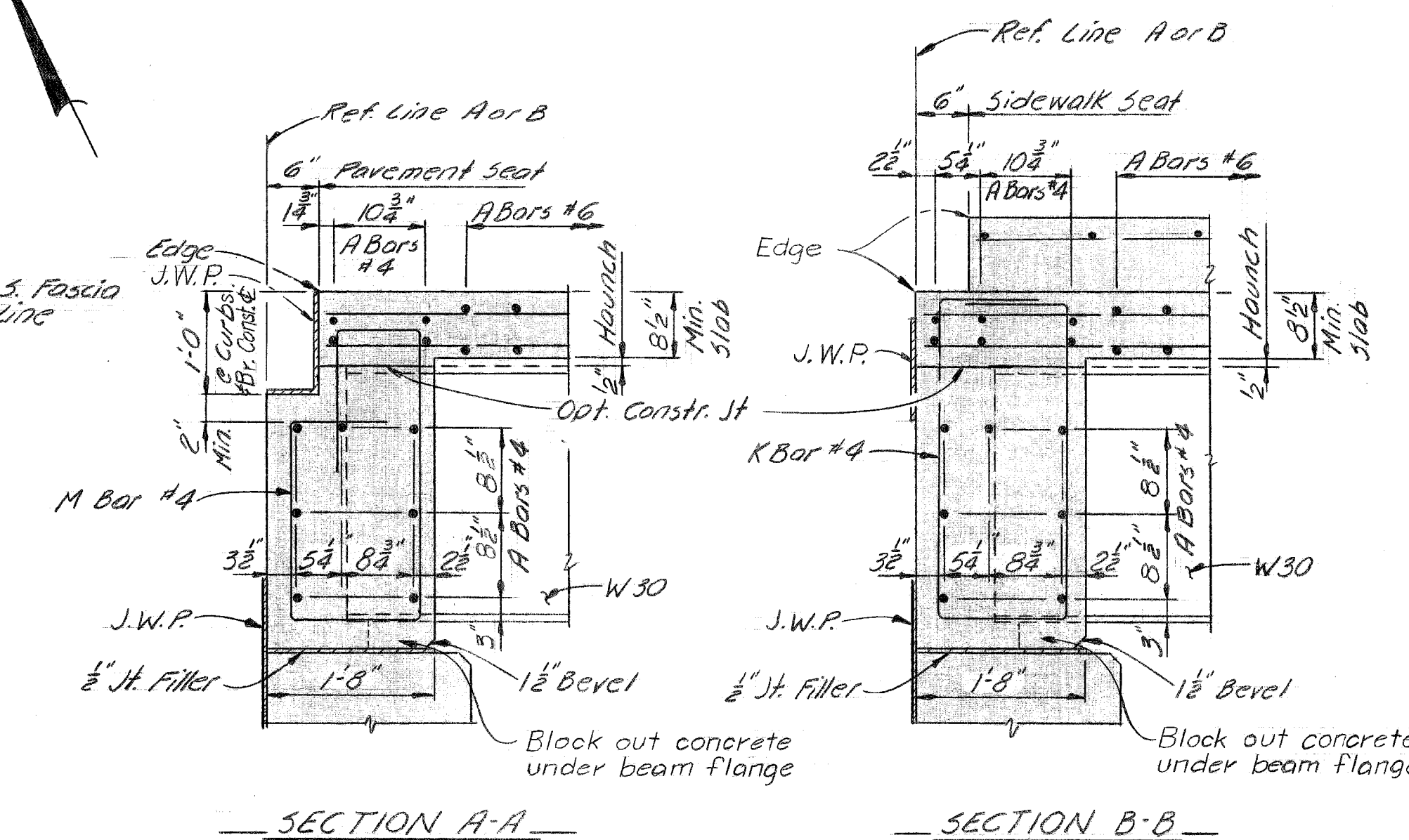
REVISIONS LOCATED BY COORDINATES ON SHEET				REFERENCE DRAWINGS	DESIGNED BY <i>M. Lurie</i>	APPROVED: _____ STRUCTURAL ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO.2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.	SHEET 31 OF 96 SHEETS
				DRAWN BY <i>A.G.</i>	_____ HEAD CIVIL ENGINEER	CONTRACT No. <i>PW 6552</i>			
				TRACED BY	_____ CIVIL ENGINEER	DRWG No. <i>530</i>			
				CHECKED BY <i>J.M.</i>				DATE <i>10-73</i>	



PLAN OF BACKWALL
Abutment A

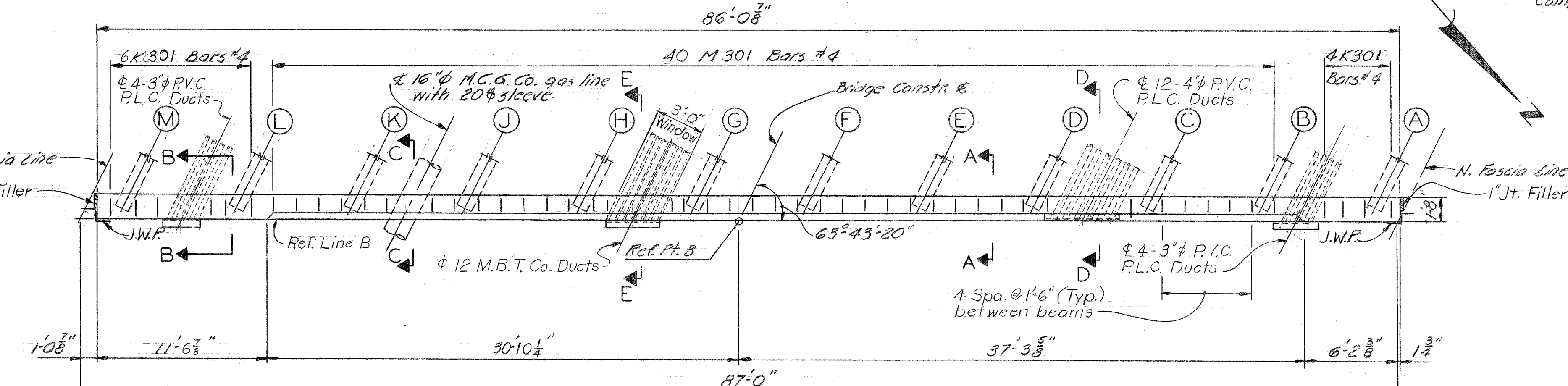


ELEVATION OF BACKWALL
Abutment A

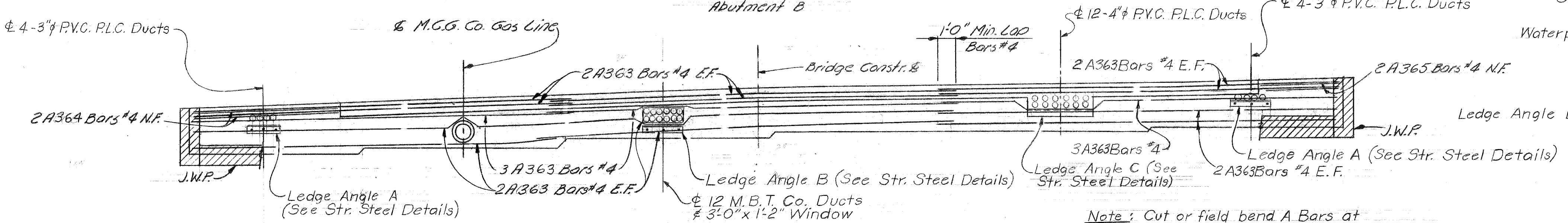


SECTION A-A

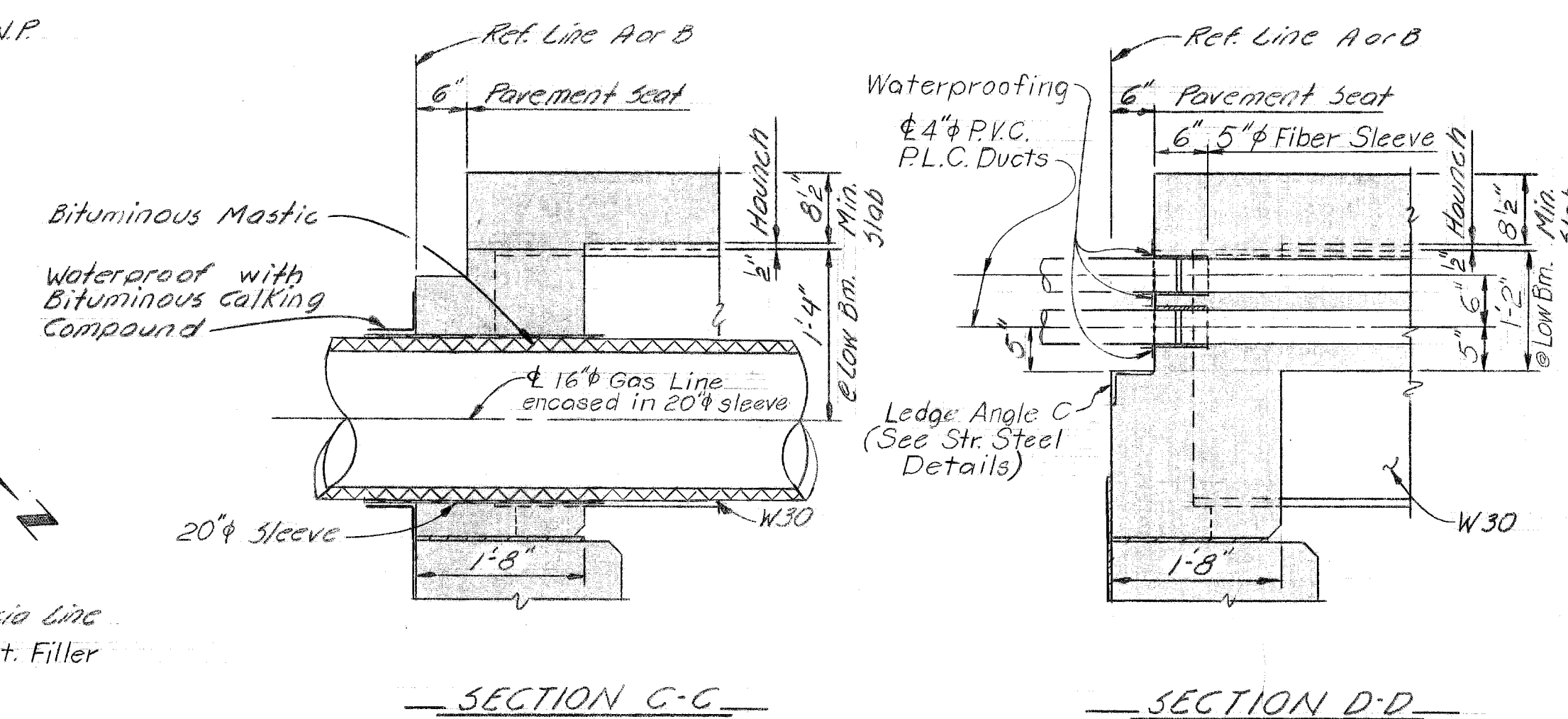
SECTION B-B



PLAN OF BACKWALL
Abutment B



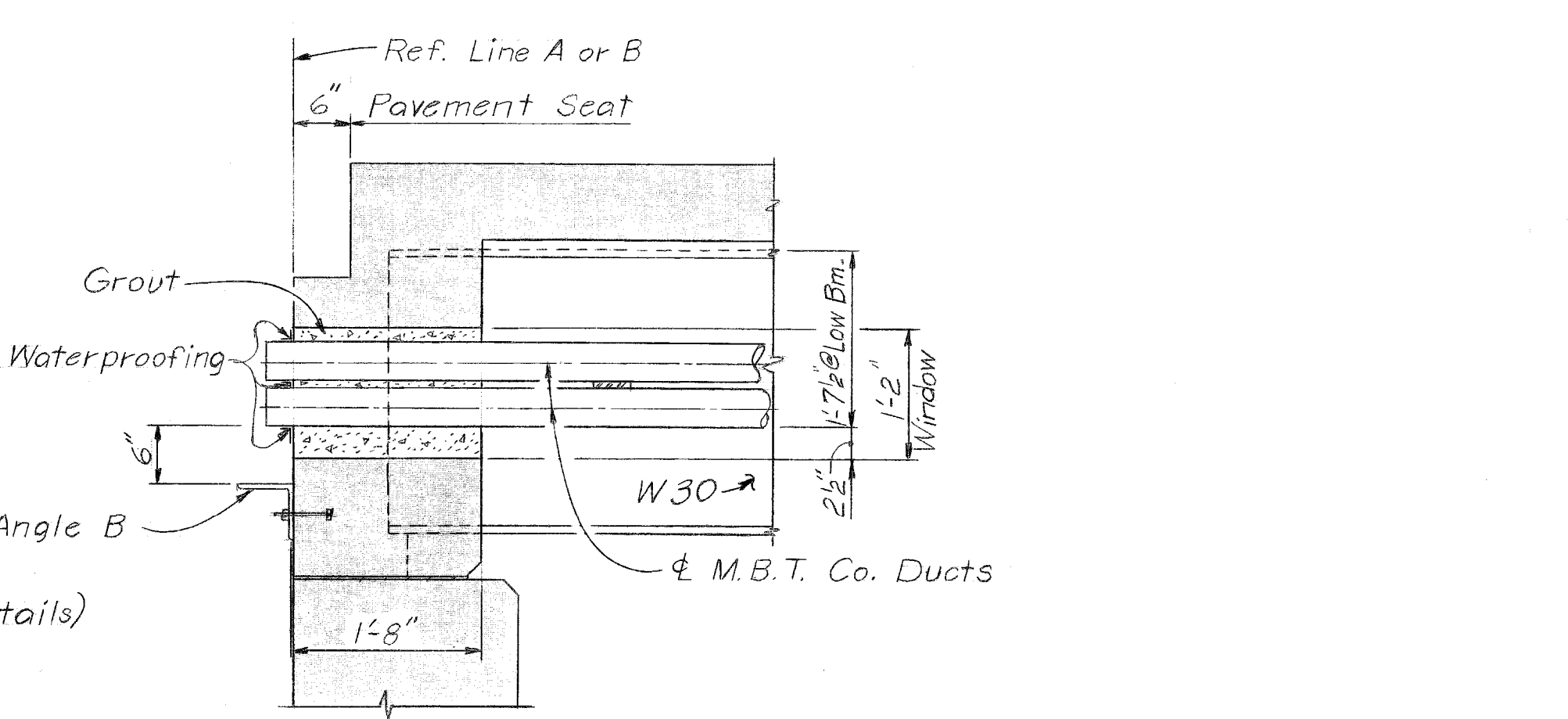
ELEVATION OF BACKWALL
Abutment B



SECTION C-C

SECTION D-D

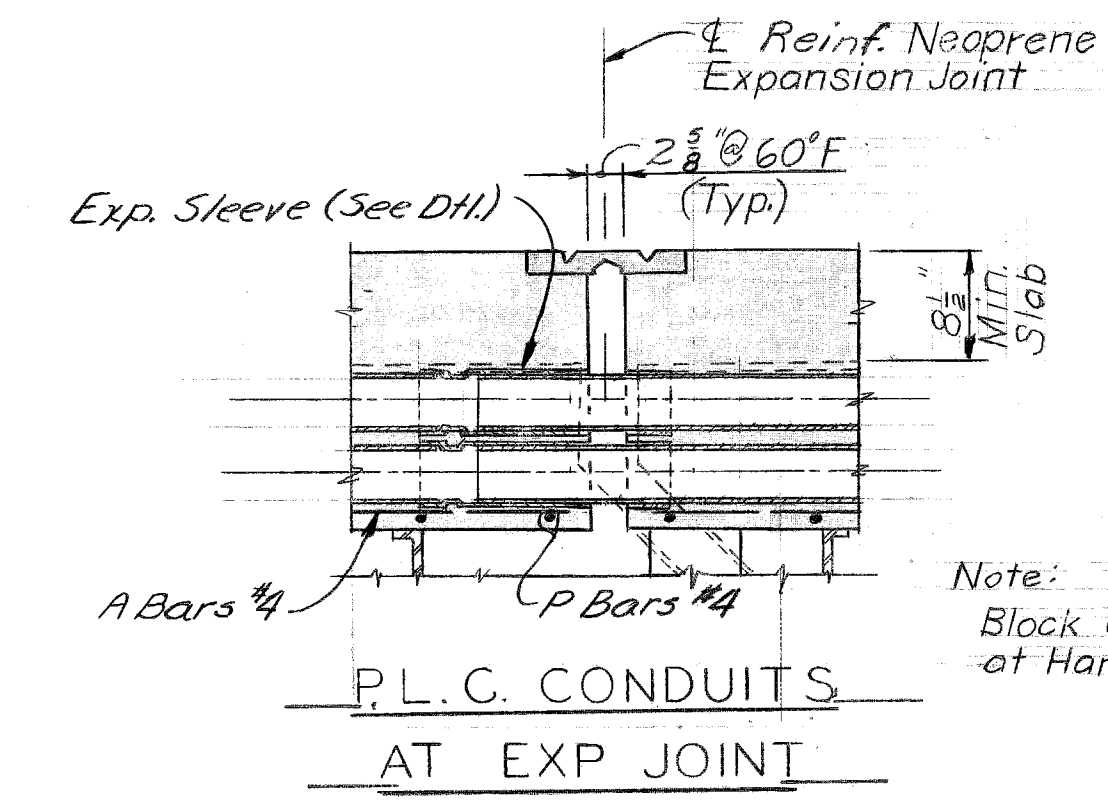
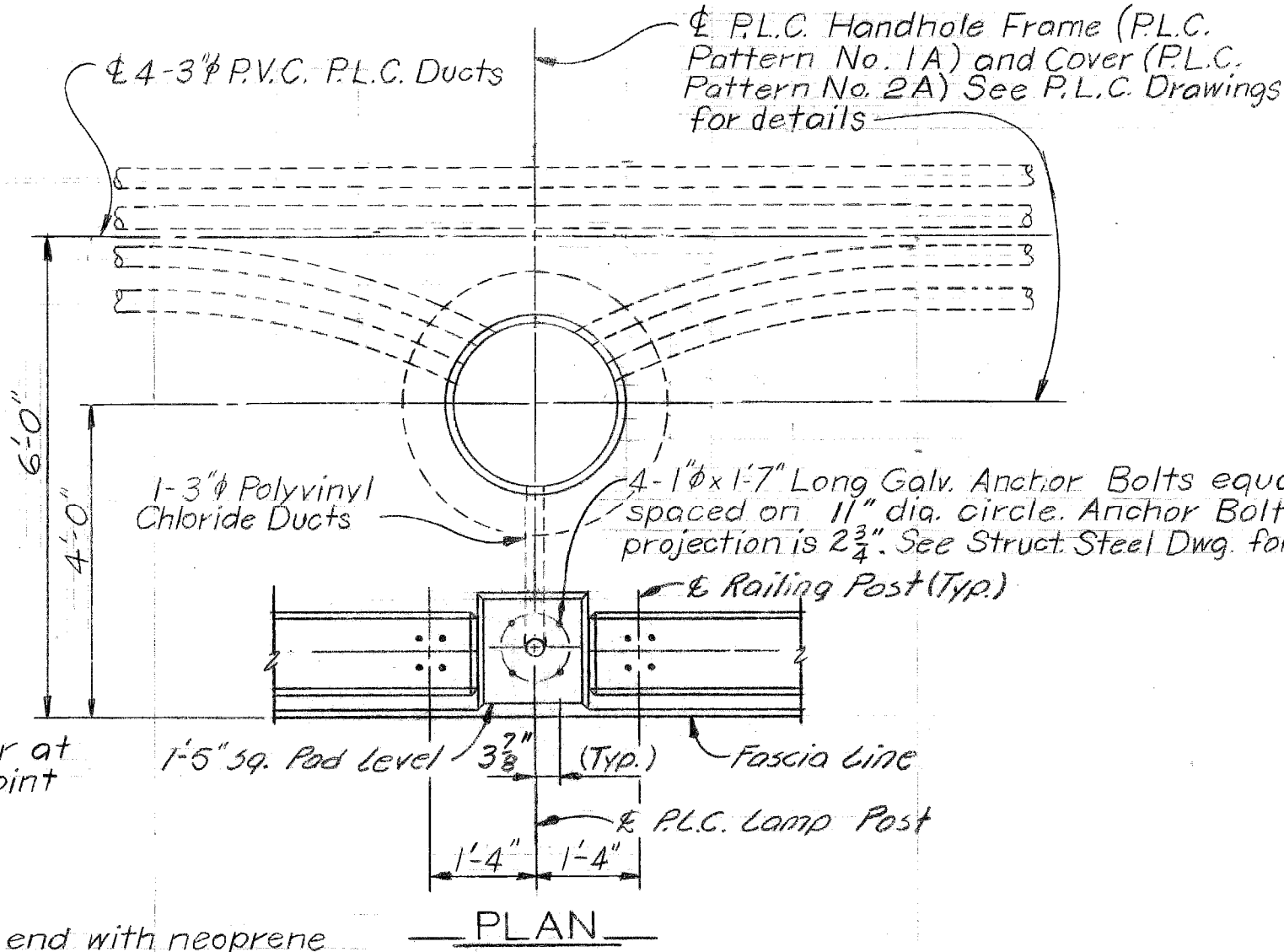
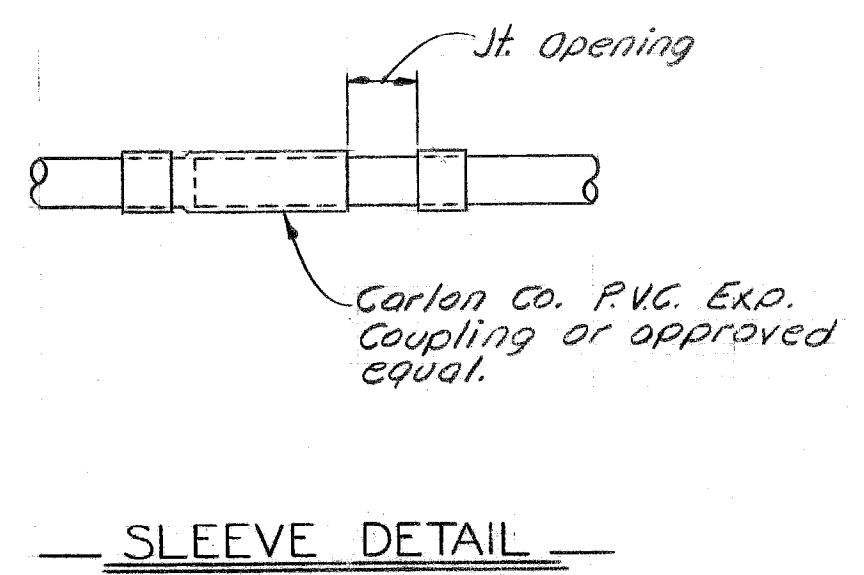
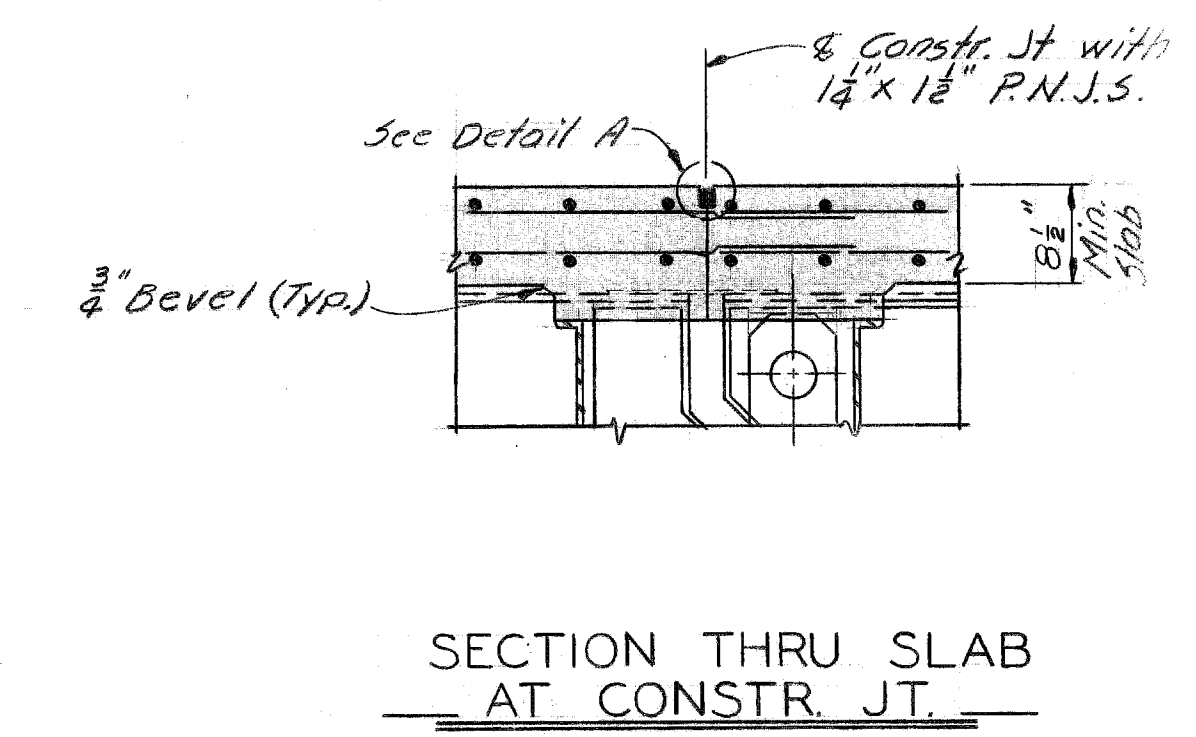
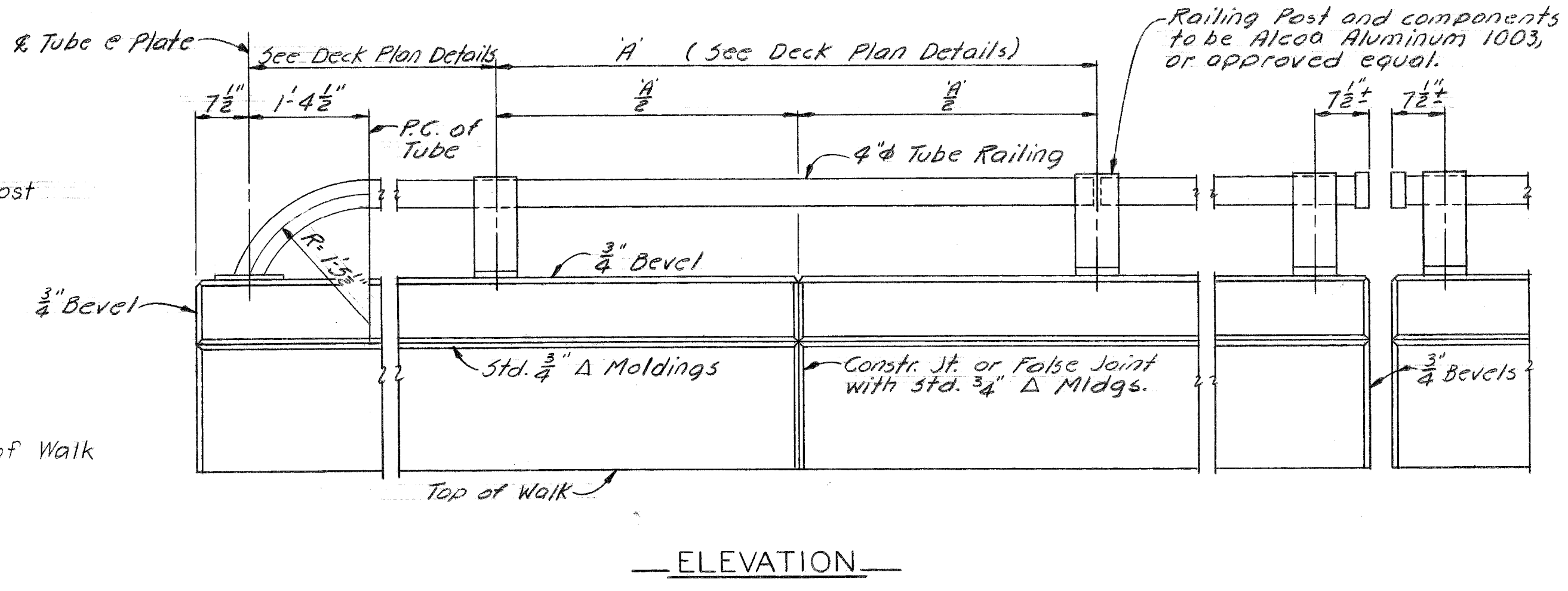
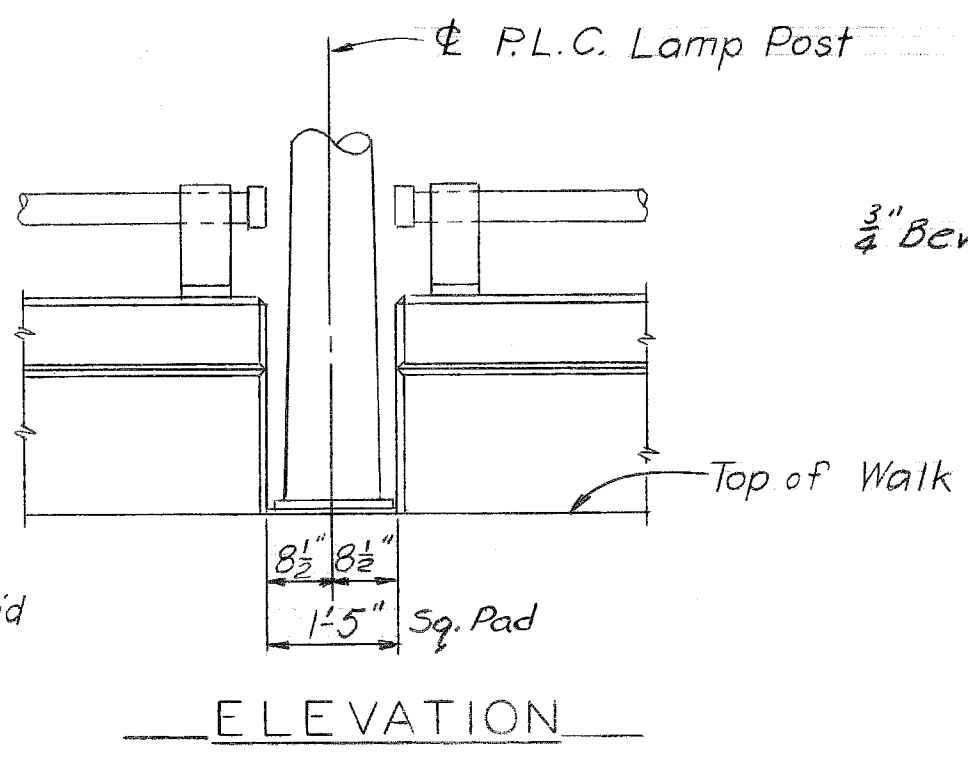
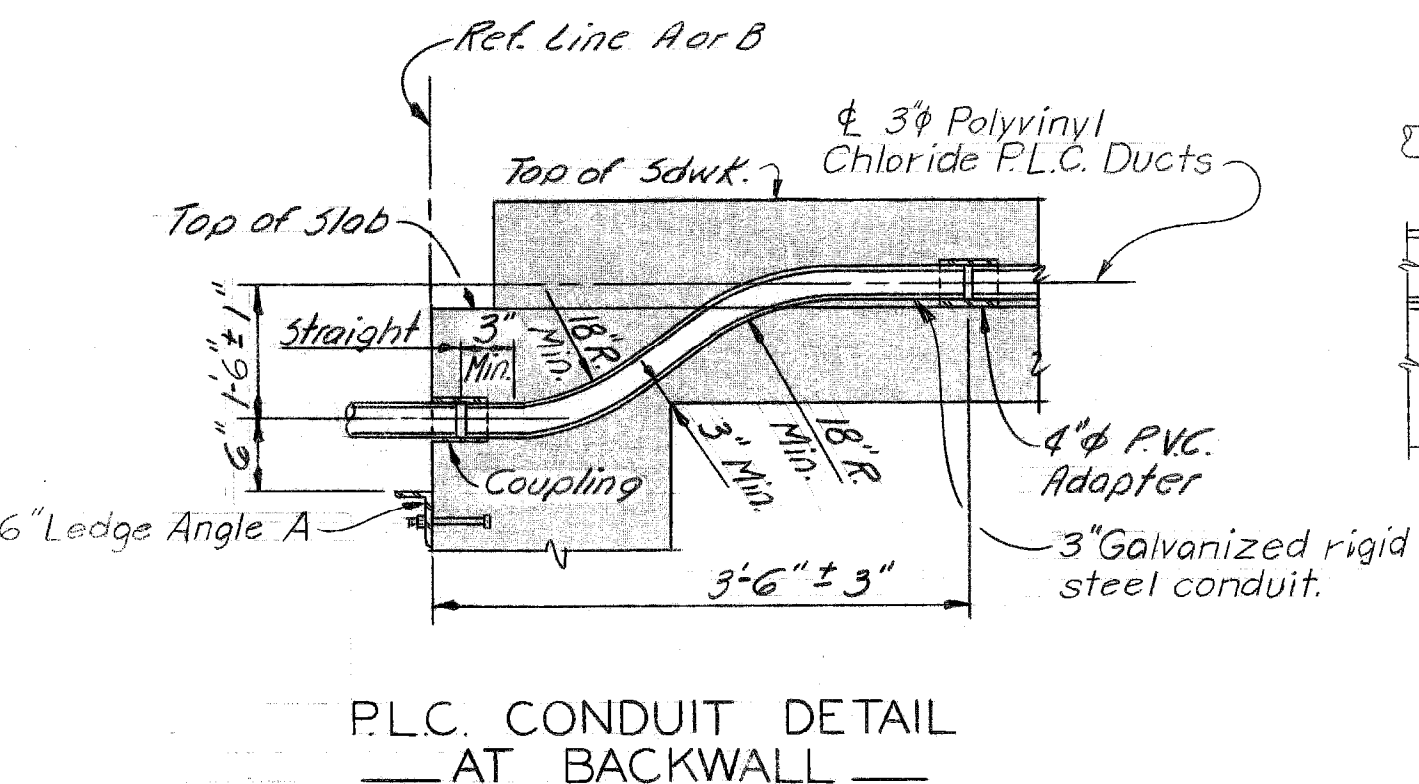
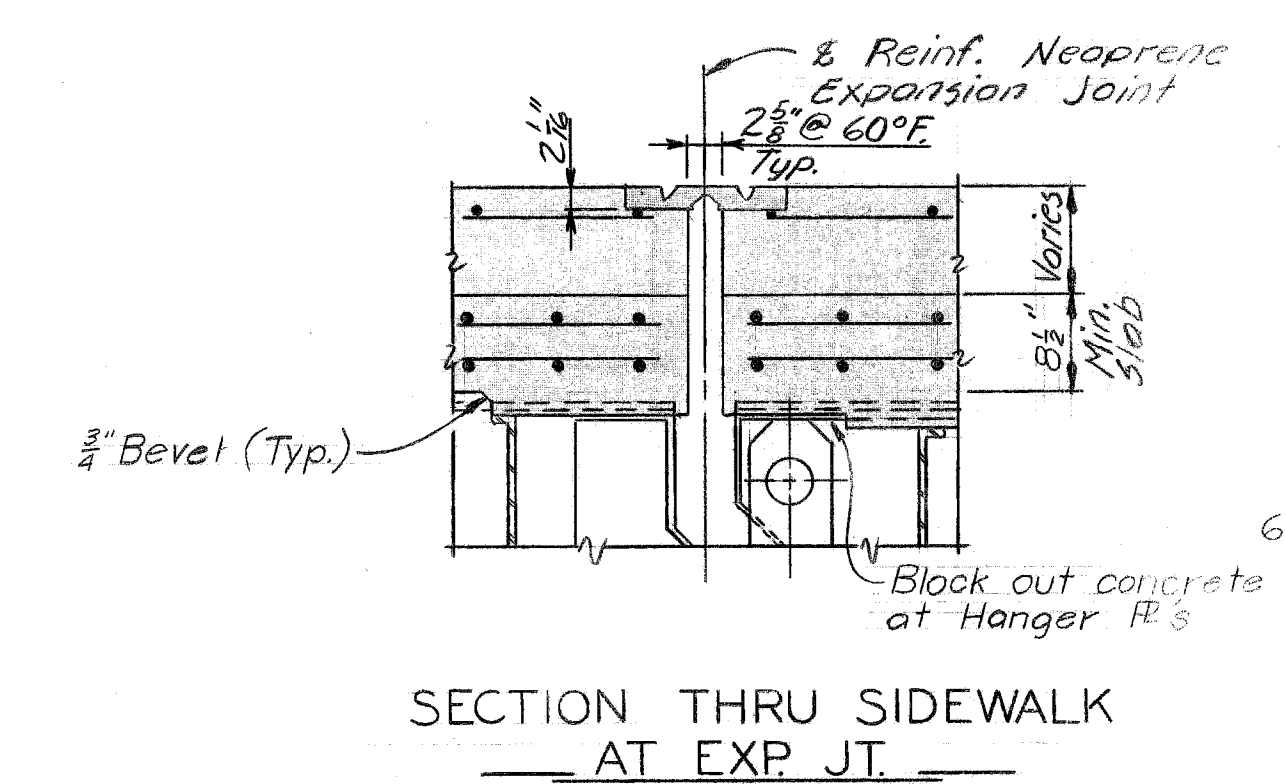
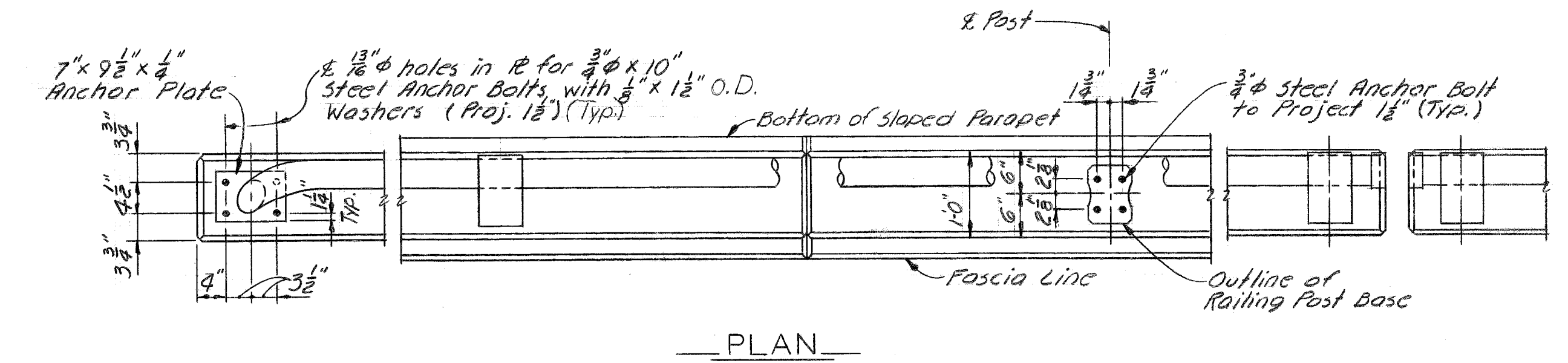
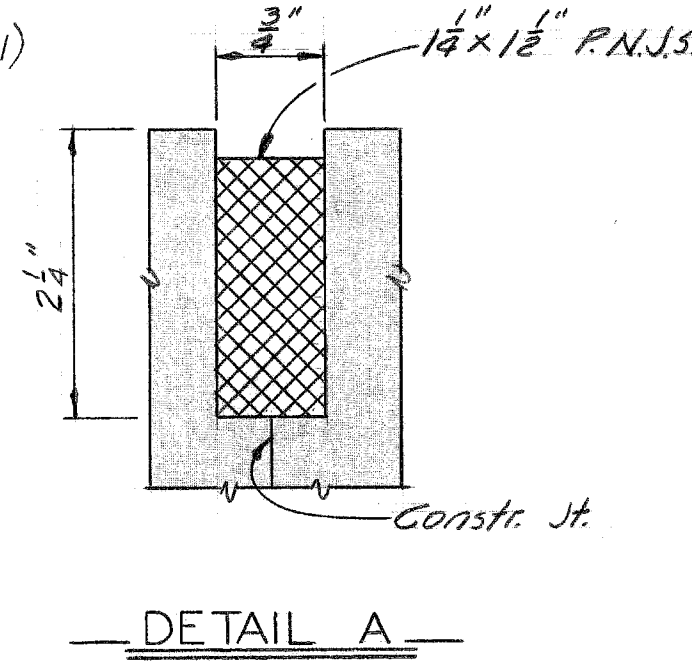
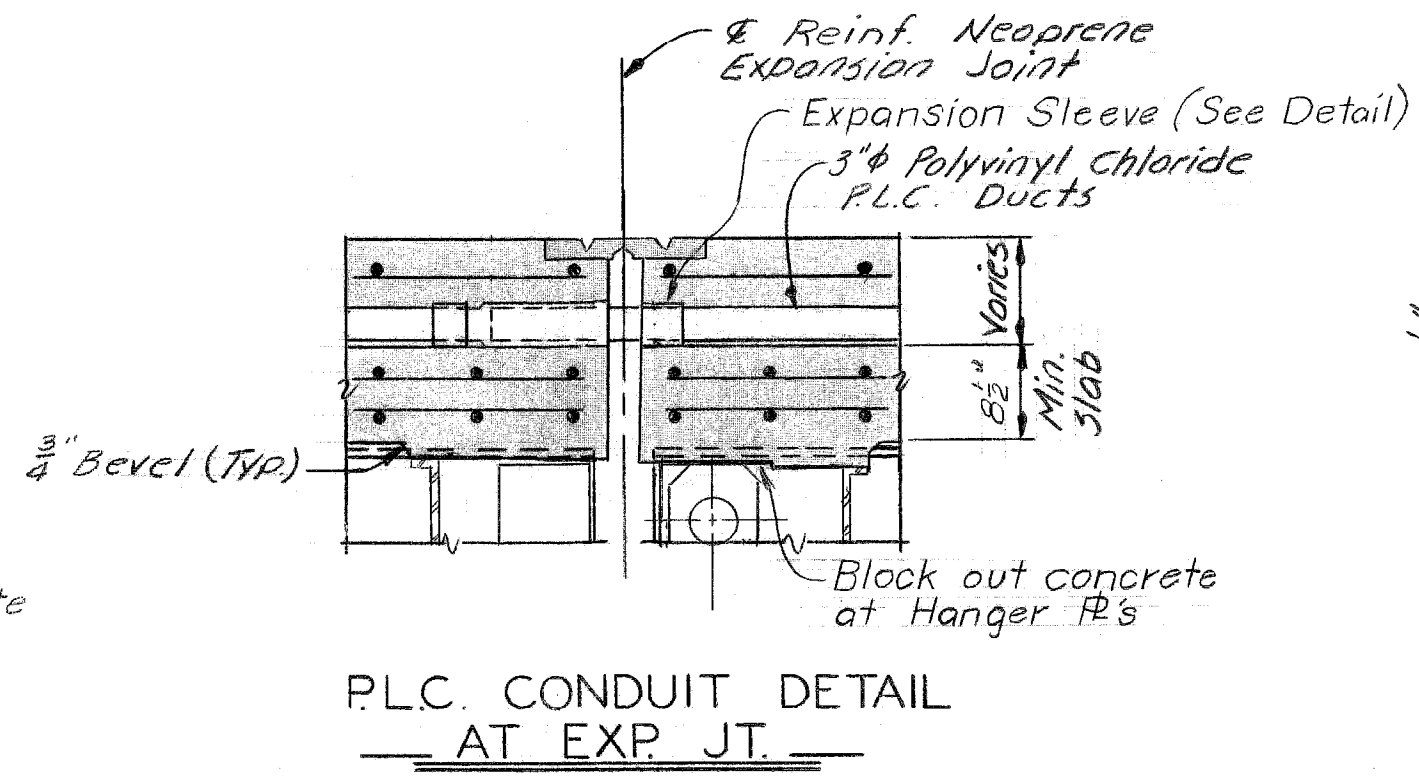
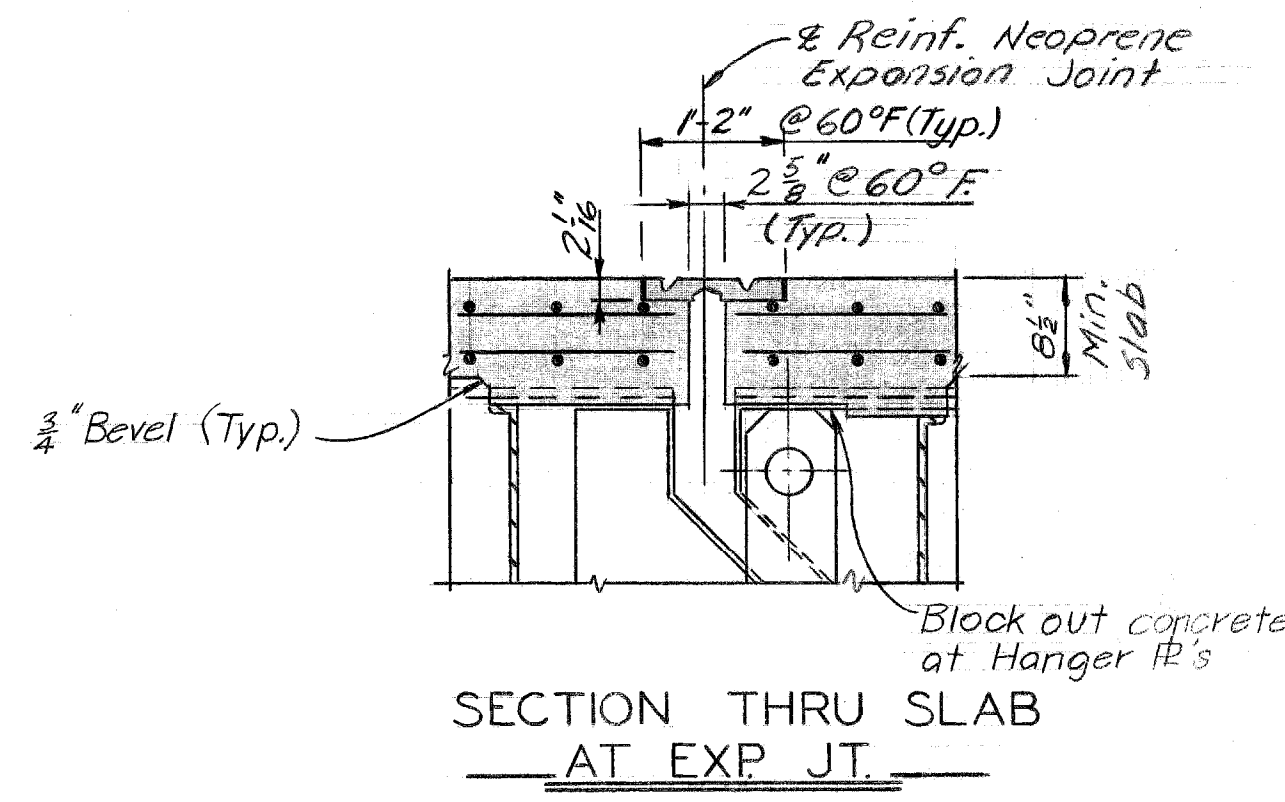
Note: Gas Main, and Bituminous Mastic to be furnished and installed by M.C.G. Co.



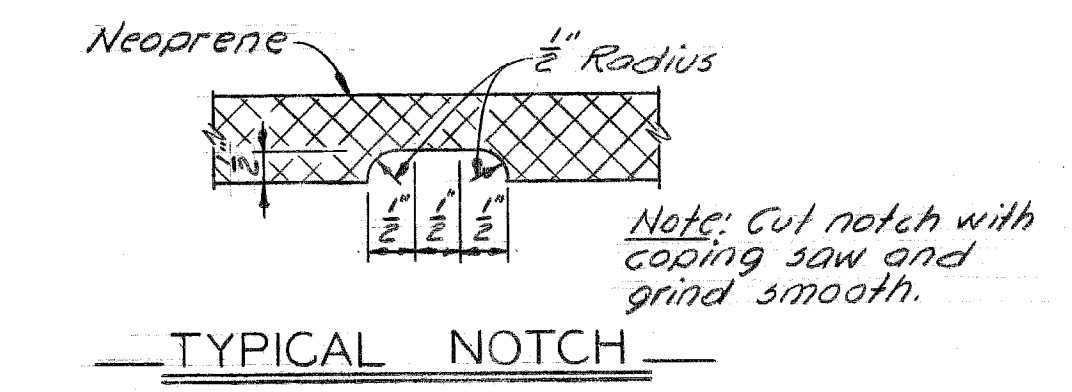
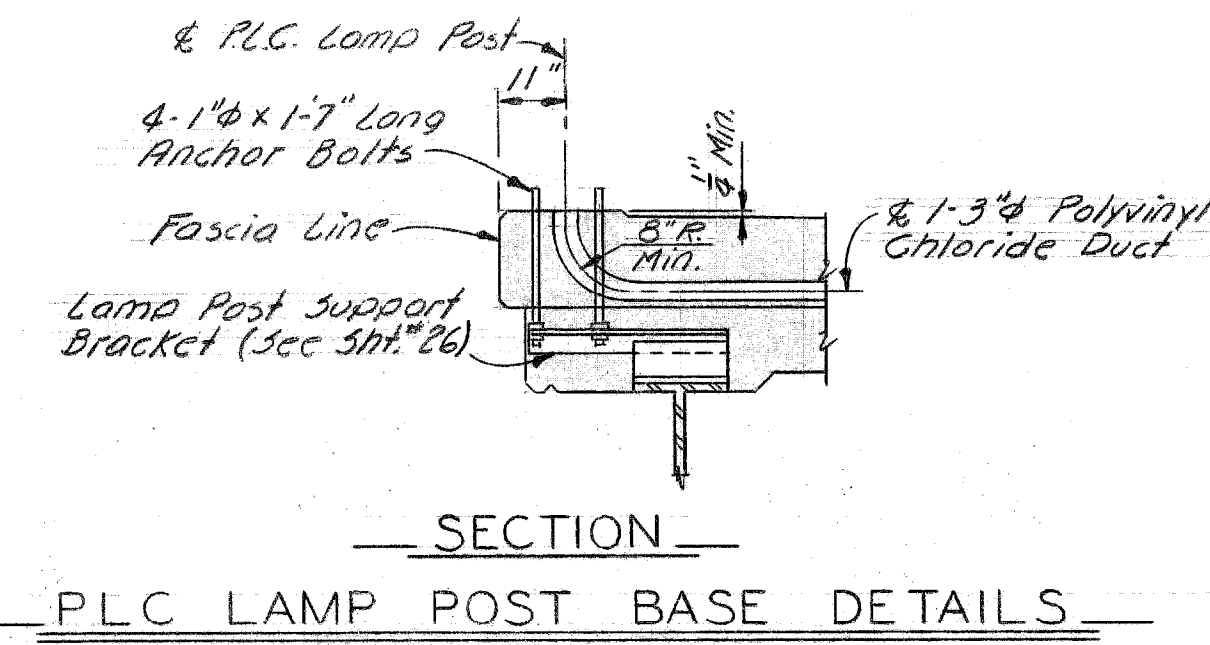
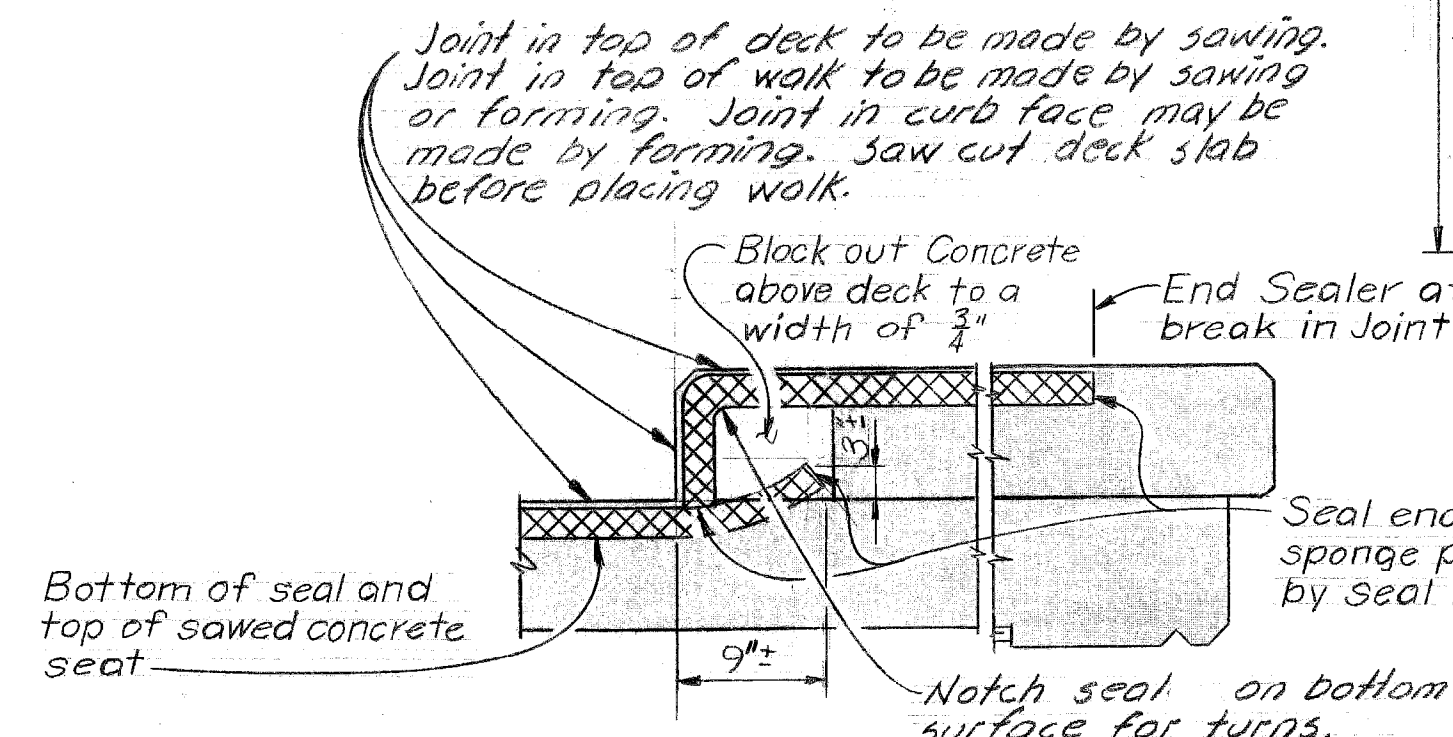
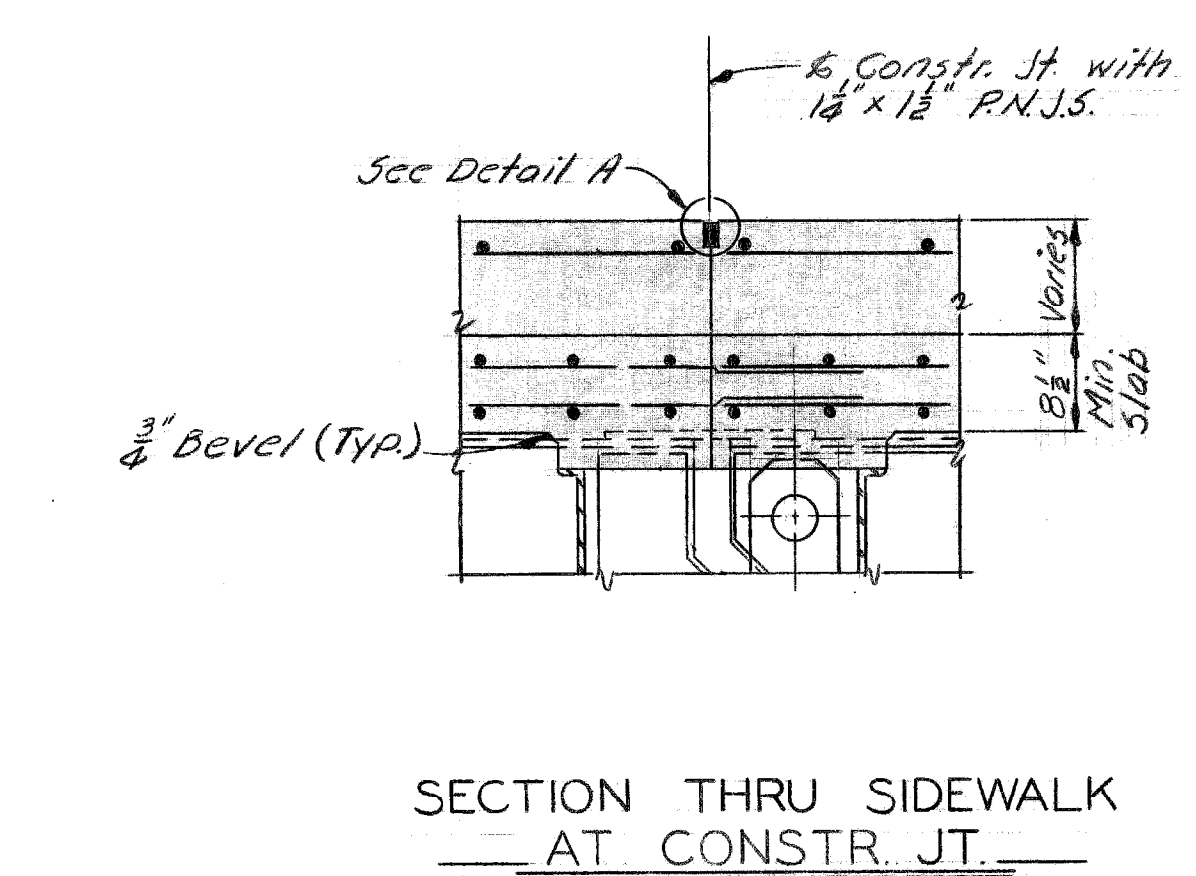
SECTION E-E

Note: Conduits, spacers, and grout furnished and installed by M.B.T. Co.

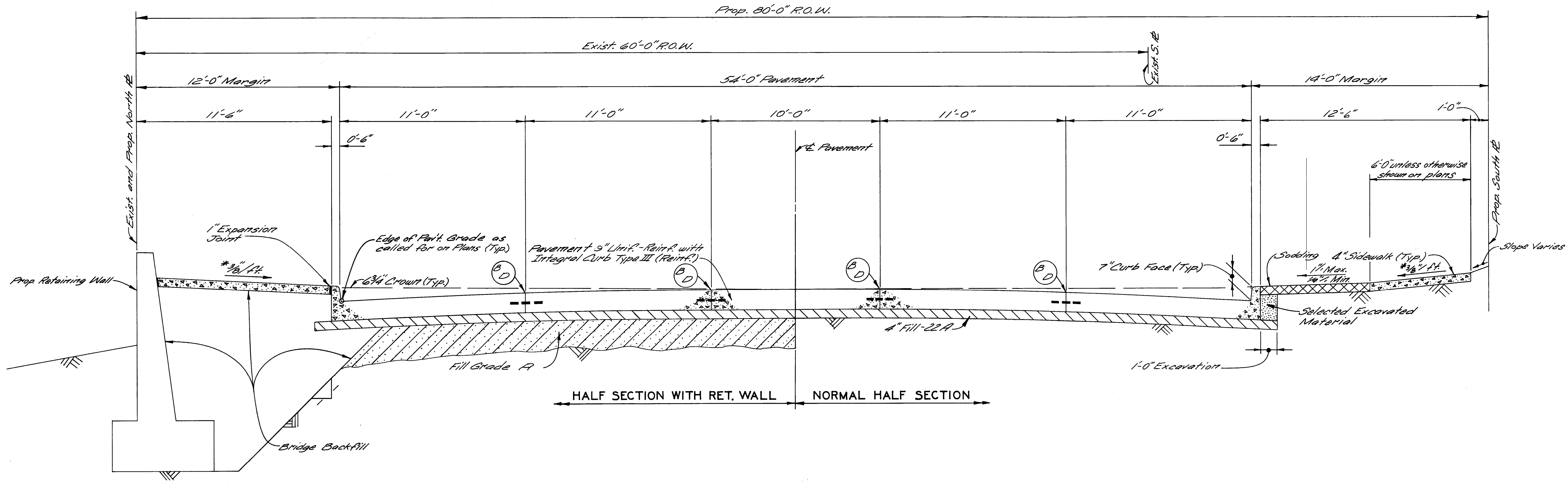
DESIGNED BY <i>M. J. J. J.</i>	APPROVED: _____ STRUCTURAL ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO. 2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R.	SHEET 32 OF 26 SHEETS
DRAWN BY <i>A.G.</i>	_____ HEAD CIVIL ENGINEER			CONTRACT NO. PW 6552
TRACED BY	_____ CITY ENGINEER	FOR	SUPERSTRUCTURE DETAILS	DRWG No. 531
CHECKED BY <i>J.M.</i>				DATE 10-73



RAILING NOTES:
 Aluminum alloy for posts is to be A.S.T.M. A444 - T4
 Bolts, nuts and washers shall be galvanized steel A.S.T.M. A153.
 Anchor bolts shall meet the requirements of A.S.T.M. A307 Grade A regular square heads and hexagonal nuts.
 Nuts for anchor bolts are to be tapped .015" oversize from class 2B tolerance prior to galvanizing.
 Bolt threads are not to be subjected to use of a finishing tool or wire brush after galvanizing.
 Ends of tube sections are to be located within posts, and with a maximum of 1" between adjacent ends.
 Aluminum posts shall be set perpendicular to the top of parapet.
 The anchor plate shall be aluminum alloy A.S.T.M. 6061-T6
 The railing tube is to be welded to the anchor plate.
 Adjust the spacing of the reinforcing steel as required to permit placing of anchor bolts.
 All vertical and top concrete surfaces are to be given a rubbed surface finish. Concrete is to be Grade 405 (GAR).



DESIGNED BY <i>M. J. J.</i> DRAWN BY <i>A. G.</i> TRACED BY CHECKED BY <i>J. M.</i>		APPROVED: _____ STRUCTURAL ENGINEER _____ HEAD, CIVIL ENGINEER _____ CITY ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT CITY ENGINEERS OFFICE FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO. 2 BAGLEY AVE. BRIDGE CROSSING THE P.C.R.R. SUPERSTRUCTURE DETAILS		SHEET 33 OF 96 SHEETS CONTRACT No. PW 6552 DRWG No. 532 DATE 10-73	
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TYPICAL CROSS - SECTION OF BAGLEY AVE. - 16 TH ST. TO 12 TH ST.

NO SCALE

* Sidewalk slopes are to be 3/8"/ft. unless the Engineer determines that a minimum slope of 1/4"/ft. or a maximum slope of 3/4"/ft. must be used to meet existing conditions.

- NOTES :**
- Approximately 1200 Cu. Yds. of Selected Excavated Material (Incidental to Contract Costs) will be required including the amount needed for "Grading Abandoned Streets."

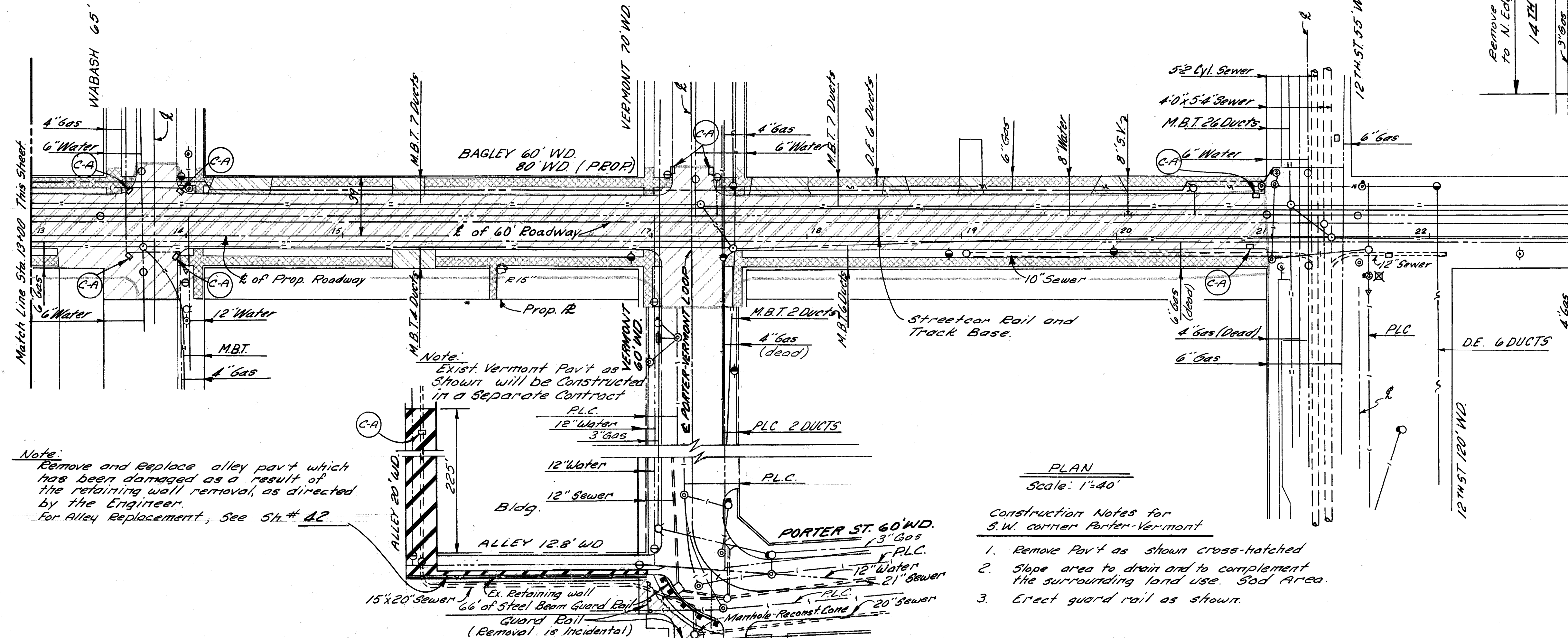
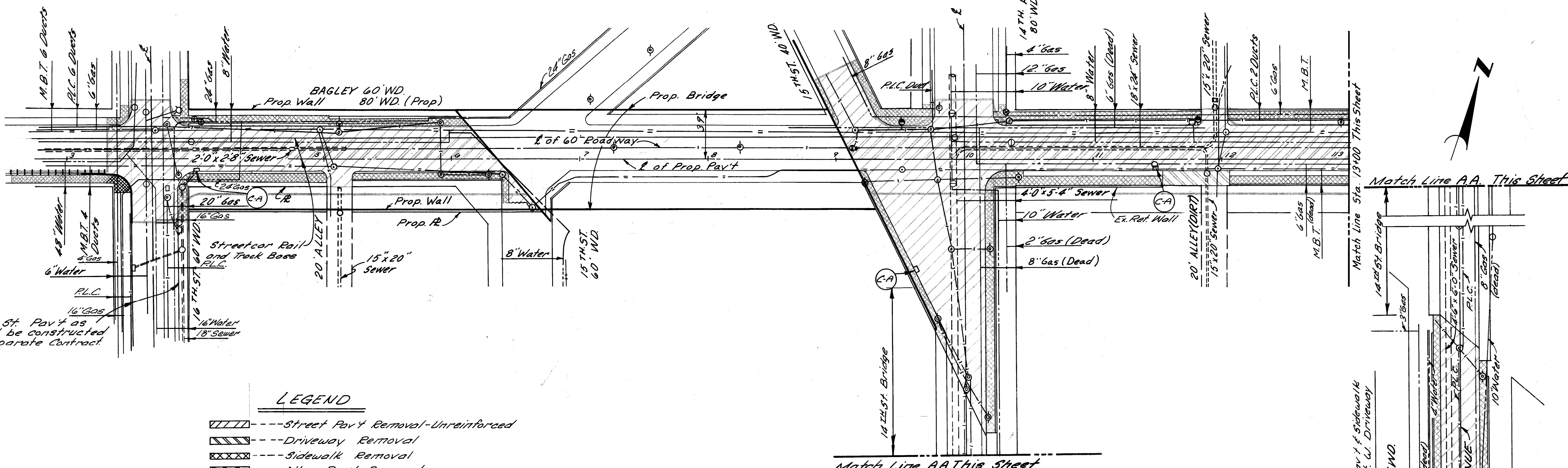
- JOINT LEGEND**
- B** Longitudinal Bulkhead Construction Joint, according to C. of D. Standard Drawing.
 - D** Longitudinal Lane Tie Joint with Tie Bars, according to C. of D. Standard Drawing.
 - AD** Optional, B or D.

DESIGNED BY		APPROVED:		CITY OF DETROIT CITY ENGINEERING DEPARTMENT		WEST SIDE INDUSTRIAL REHABILITATION PROJECT No.2 BAGLEY AVE. - 16 TH ST. TO 12 TH ST.		SHEET 38 OF 96 SHEETS	
DRAWN BY MS		Allan S. Prager ENGINEER OF EXPRESSWAYS						CONTRACT No. P.W.6552	
TRACED BY				FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		PAVEMENT CONSTRUCTION & UTILITY RELOCATION		DRWG No.	
CHECKED BY RP								TYPICAL CROSS - SECTION, 16TH ST. TO 12TH ST.	
COORD.	DESCRIPTION	DWN	CHK'D	AP'D	DATE				
REVISIONS LOCATED BY COORDINATES ON SHEET									

Note:
Exist 16th St Pav't as shown will be constructed under a separate Contract

LEGEND

- Street Pav't Removal-Unreinforced
- Driveway Removal
- Sidewalk Removal
- Alley Pav't Removal
- Streetcar Rail & Track Base Removal
- Catch Basin-Abandonment
- Tree Removal
- Separate Type Curb Removal-Unreinforced



Note:
Remove and Replace alley pav't which has been damaged as a result of the retaining wall removal, as directed by the Engineer.
For Alley Replacement, See Sh.# 42

Note:
Exist Vermont Pav't as shown will be constructed in a separate Contract

PLAN
Scale: 1"=40'

- Construction Notes for S.W. corner Porter-Vermont
1. Remove Pav't as shown cross-hatched
 2. Slope area to drain and to complement the surrounding land use. Sod Area.
 3. Erect guard rail as shown.

DESIGNED BY	JD
DRAWN BY	JD
TRACED BY	
CHECKED BY	RP

APPROVED:
Allen J. Foglia
ENGINEER OF EXPRESSWAYS

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
FOR
COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT

WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO. 2 BAGLEY AVE.-16TH ST. TO 12TH ST. PAVEMENT CONSTRUCTION & UTILITY RELOCATION	SHEET 39 OF 96 SHEETS
REMOVALS, 16TH ST. TO 12TH ST.	CONTRACT No. PW 6552
	ASSIG. No. 1865A
	DATE

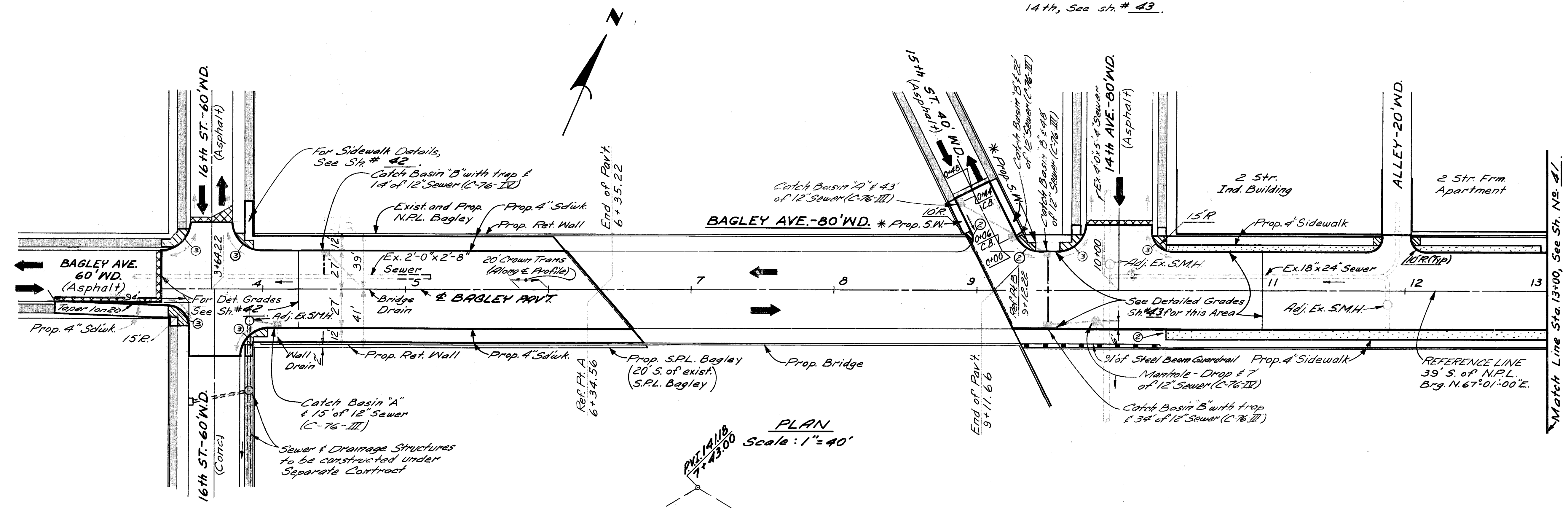
* For Details of Prop. Sidewalk on the north side of Bagley at 15th and from 15th to 14th, See sh. # 43.

LEGEND

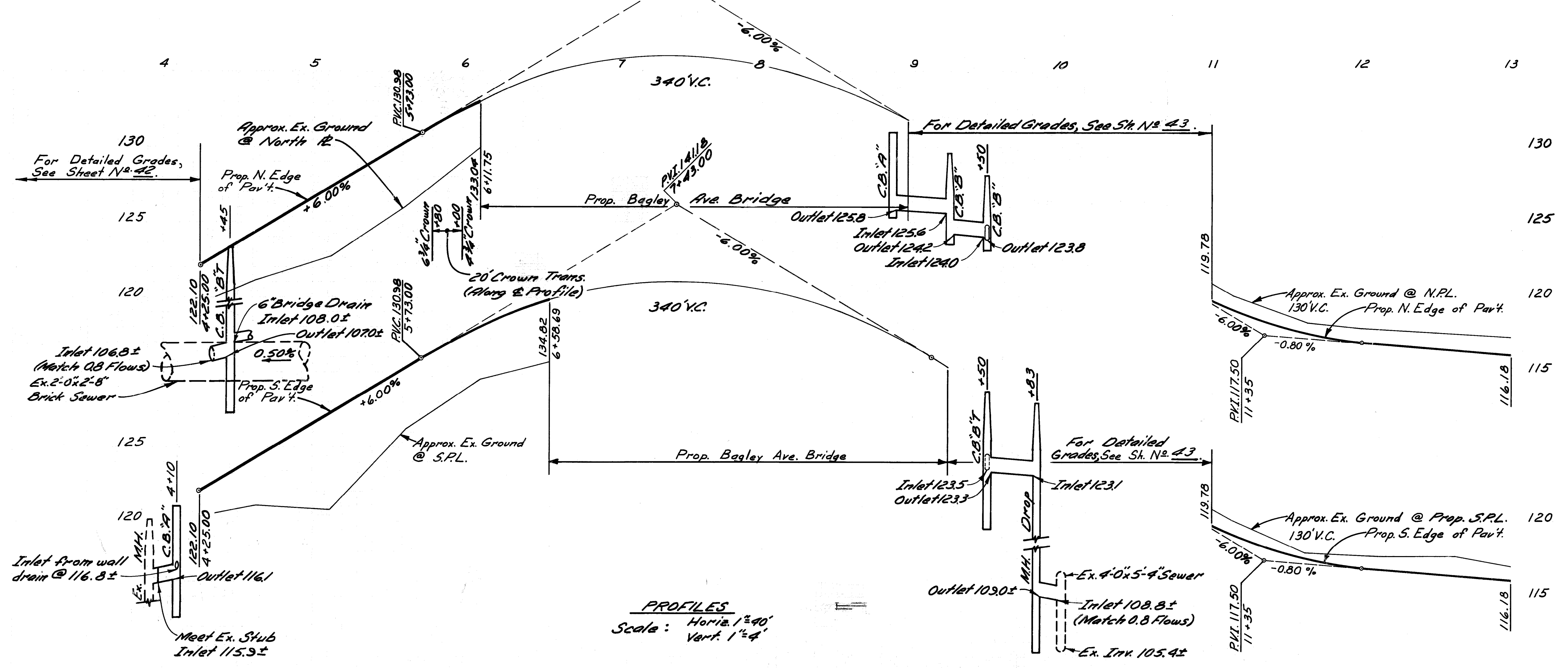
- Exist. Sidewalk or Driveway to Remain
- Strip & Adjust Asphalt Surface
- Pavement - S' Limit (Reinf.) with Type III Curb - Integral (Reinf.)
- Sidewalk Ramps, Type 1, 2 or 3 (6")
- Sidewalk - 6"
- Sodding

NOTES:

1. All street return radii are 20' unless otherwise noted.

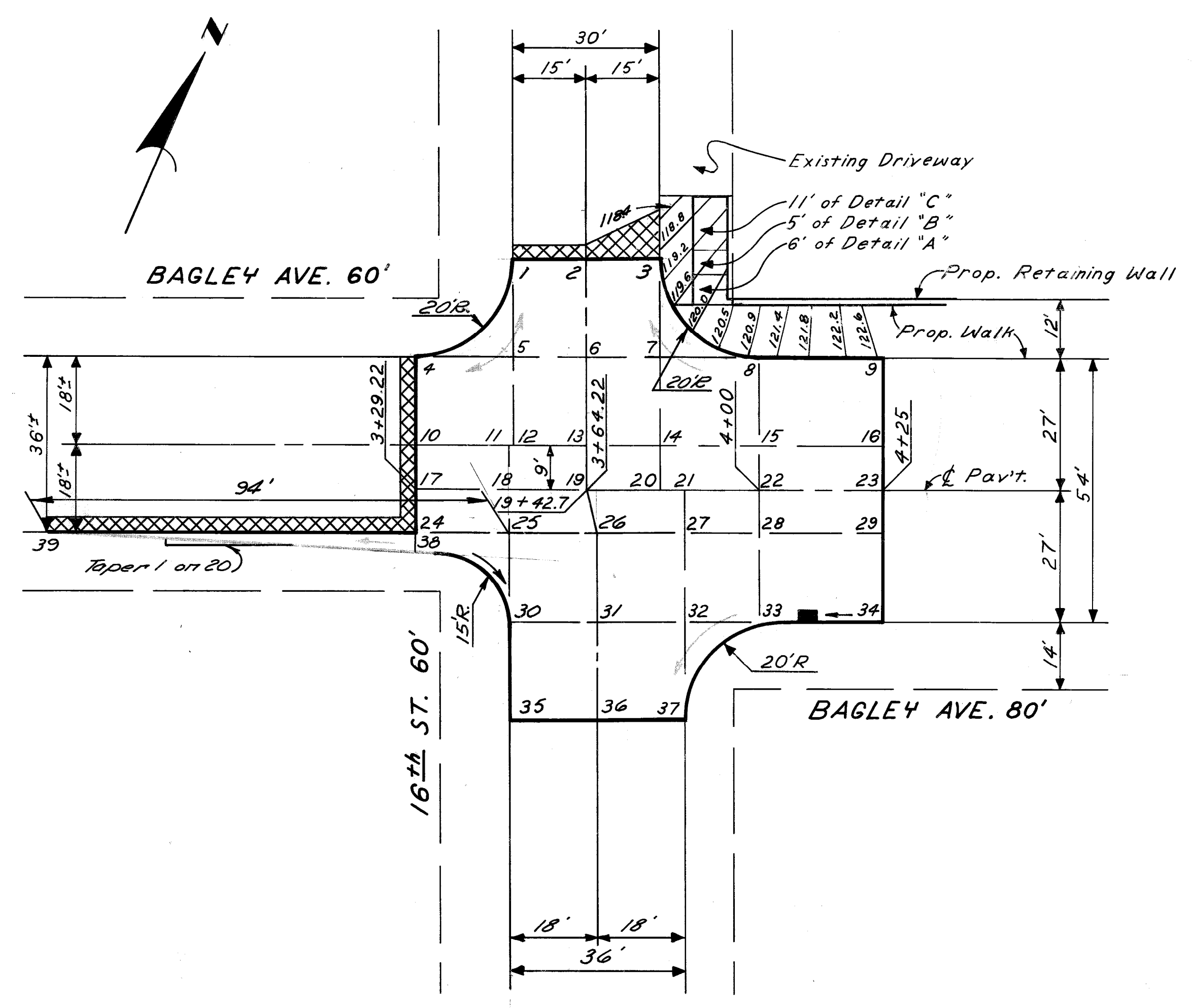


PLAN
Scale: 1" = 40'



PROFILES
Scale: Horiz. 1" = 40'
Vert. 1" = 4'

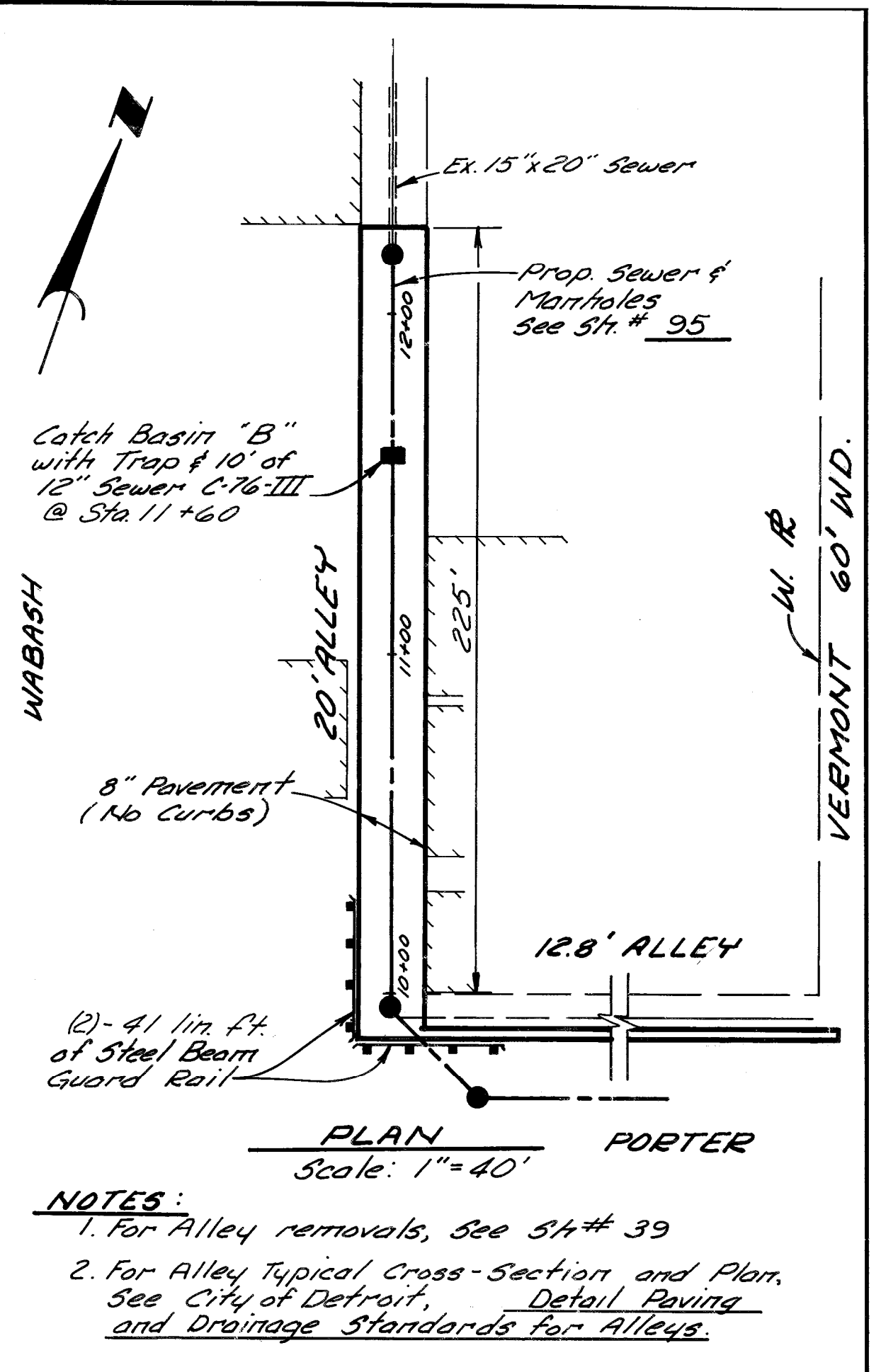
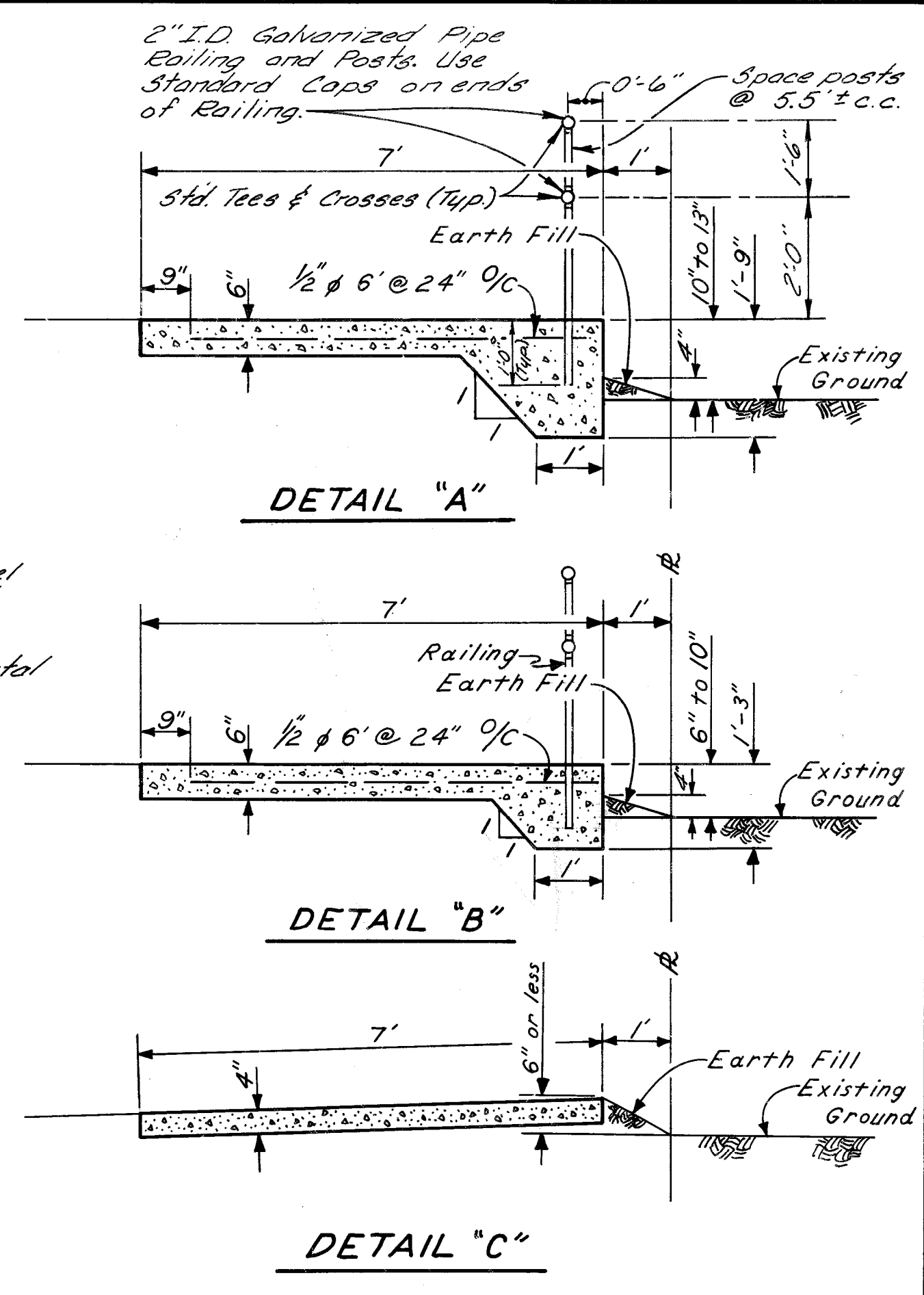
	BY	CHECKED BY	APPROVED:	CITY OF DETROIT CITY ENGINEERING DEPARTMENT	WEST SIDE INDUSTRIAL REHABILITATION PROJECT No.2 BAGLEY AVE. - 16 TH ST. TO 12 TH ST. PAVEMENT CONSTRUCTION & UTILITY RELOCATION	INDEX NO. SHEET 40 OF 96 SHEETS
	PLAN	MS		FOR	COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	CONTRACT NO. P.W.6552
	GRADE	JD				ASSIGNMENT NO. 1865 A
	ESTIMATE	IK	RC			DATE
	FINAL		RP			
DESCRIPTION	DWN	CK'D	AP'VD	DATE		
REVISIONS						



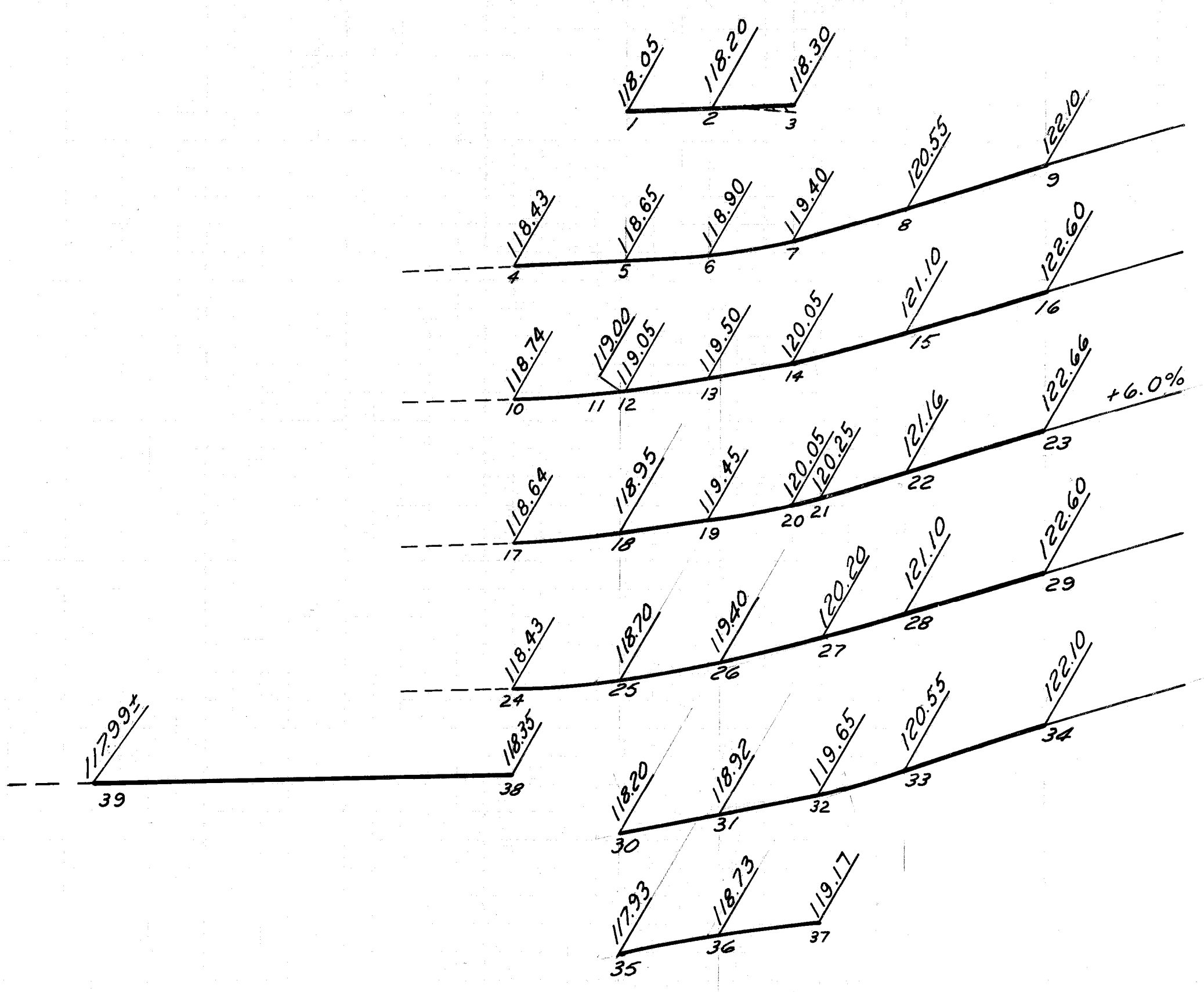
LEGEND
 Strip & Adjust Asph. Surface

Additional Sidewalk Thickness, Steel and Railing shall be constructed according to the details shown in Details "A" and "B" on this drawing and shall be incidental to the Contract Cost.

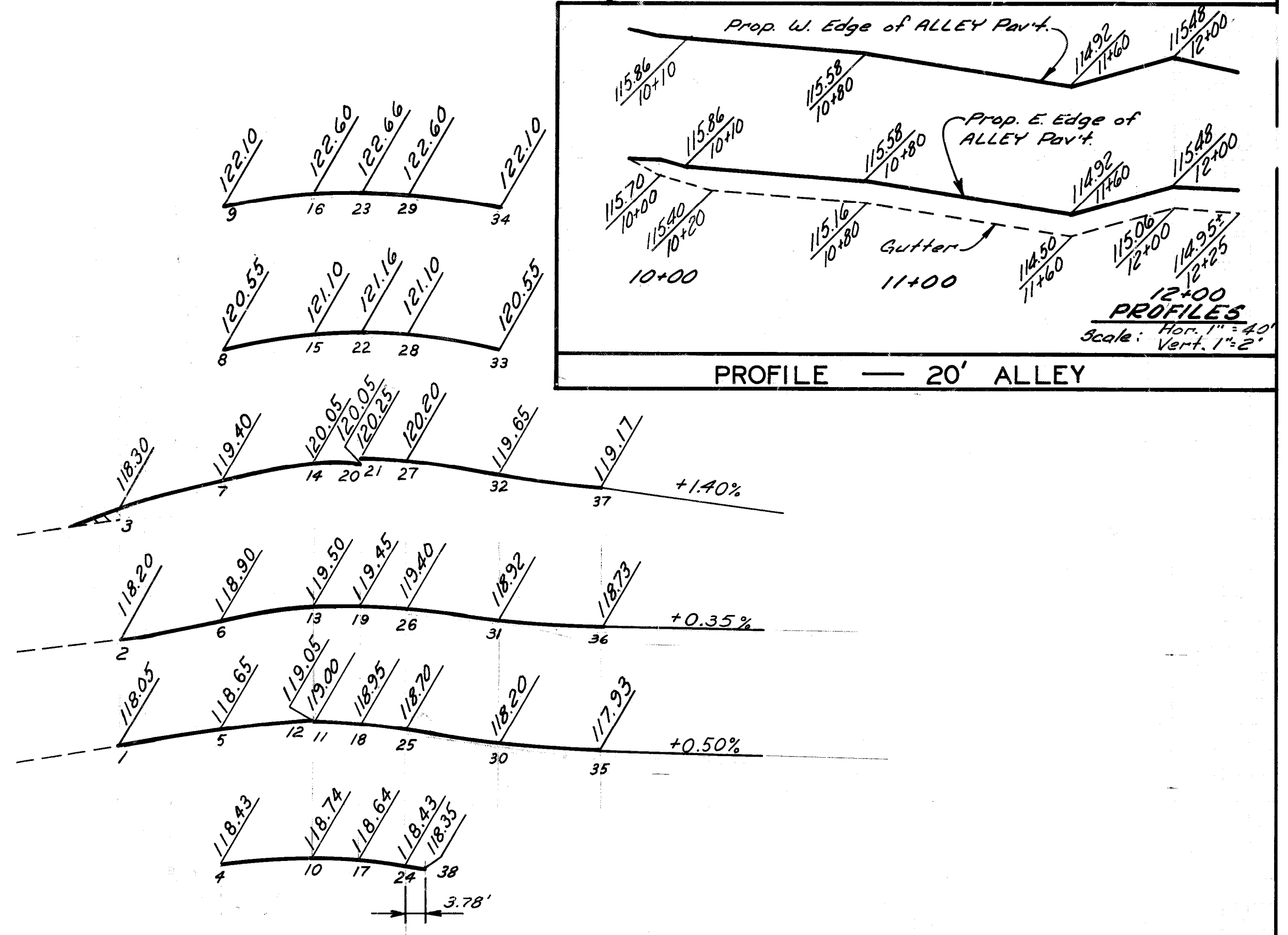
PLAN
Scale: 1" = 20'



NOTES:
 1. For Alley removals, See Sht. # 39
 2. For Alley Typical Cross-Section and Plan, See City of Detroit, Detail Paving and Drainage Standards for Alleys.



PROFILE LEGEND
 Prop. Pav't Grade
 Exist. Pav't Grade
 Strip & Adjust Asph. Surface



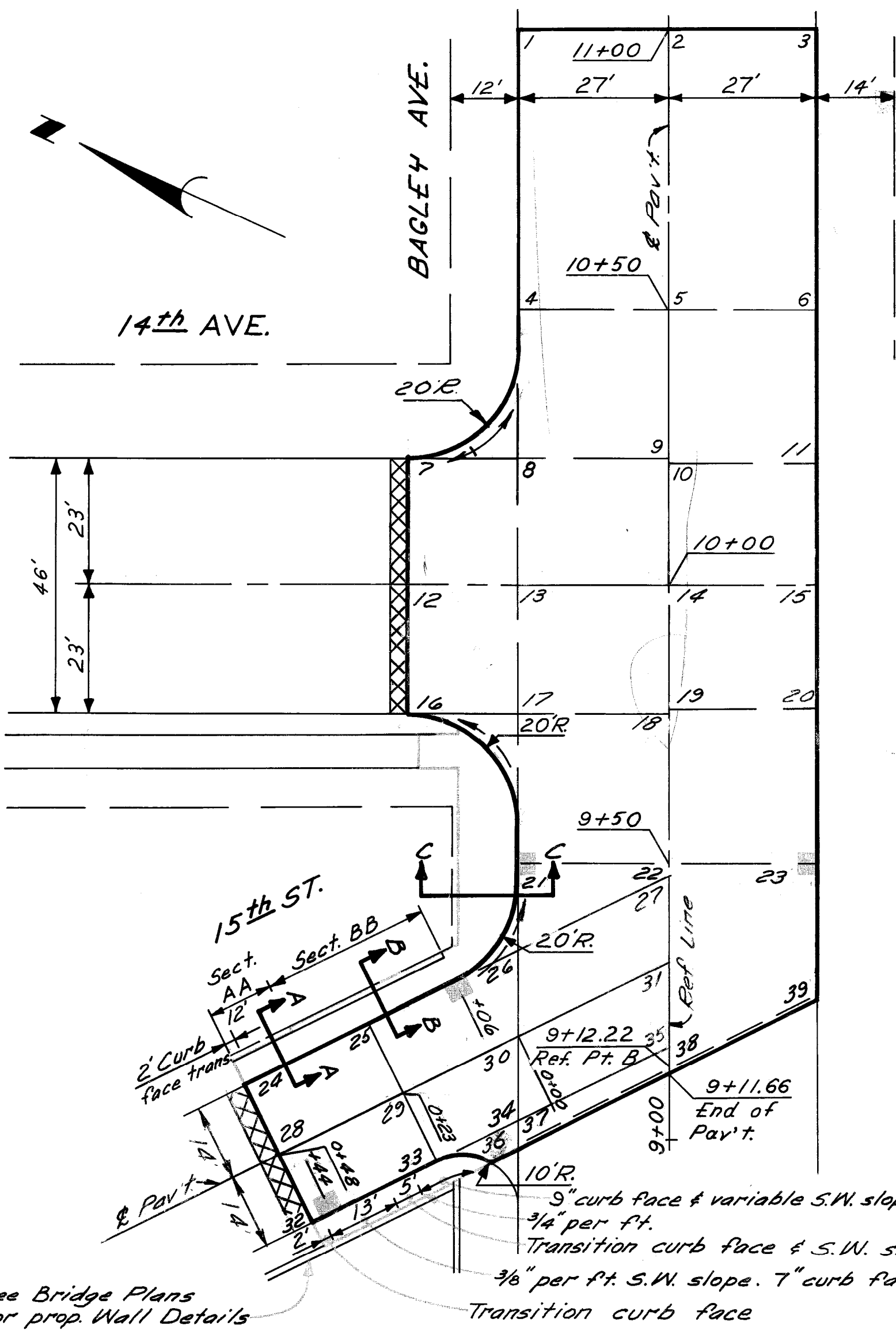
DESCRIPTION	DRN	CK'D	AP'D	DATE
REVISIONS				

BY	MS	CHECKED BY		APPROVED:	<i>Allen P. Prokop</i>
GRADE				ENGINEER OF STREETS	
ESTIMATE				ADMINISTRATIVE ENGINEER	
FINAL	IK	REVIEW	RP	HEAD CIVIL ENGINEER	

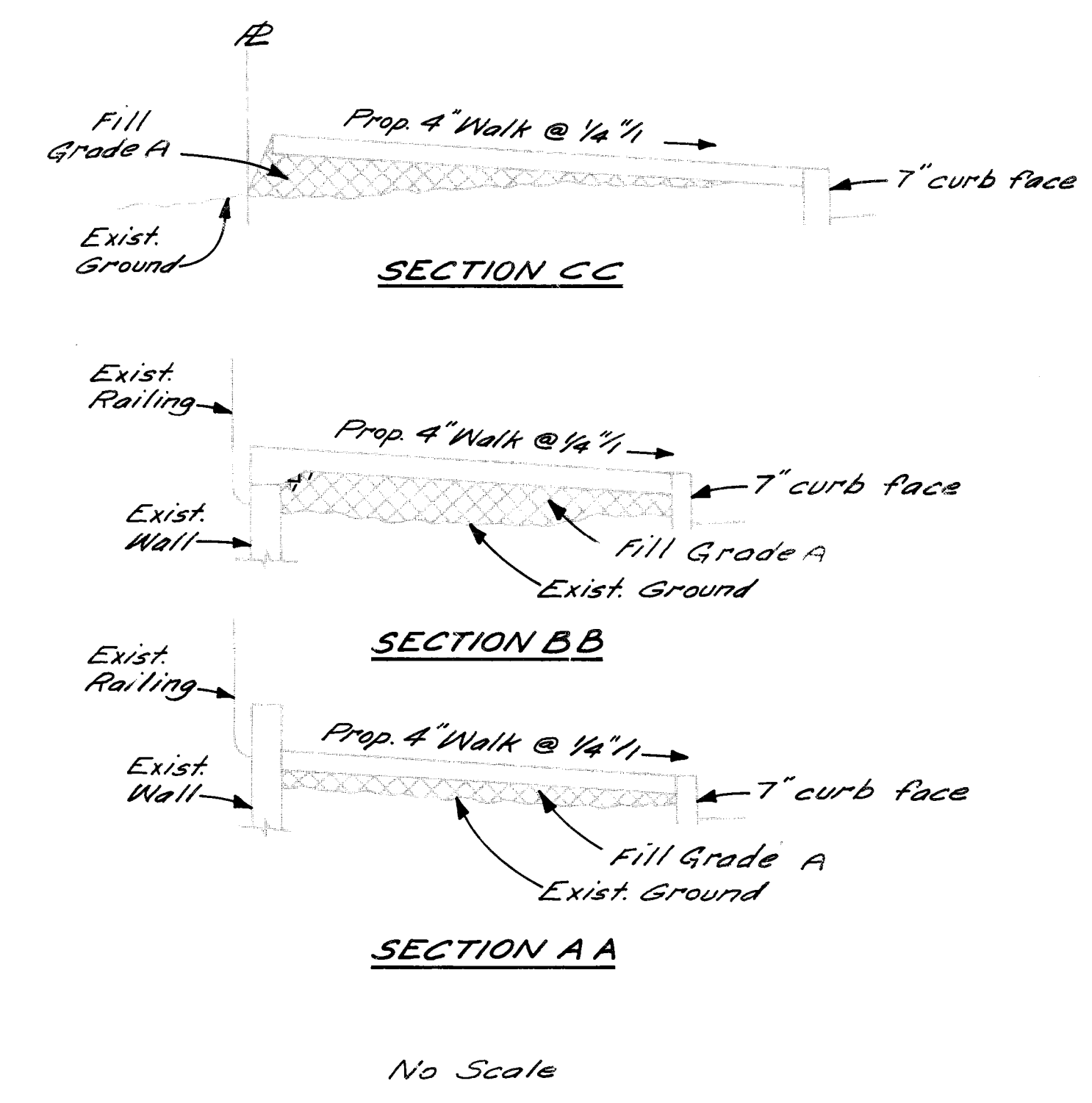
CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 FOR
 COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT

WEST SIDE INDUSTRIAL REHABILITATION PROJECT NO. 2
 BAGLEY AVE. 16TH ST. TO 12TH ST.
 PAVEMENT CONSTRUCTION & UTILITY RELOCATION
 DETAILED GRADES FOR BAGLEY AVE. AT 16TH ST.
 ALLEY PLAN WEST OF VERMONT

INDEX NO.	42 OF 96 SHEETS
CONTRACT NO.	PW 6552
ASSIGNMENT NO.	1865A
DATE	

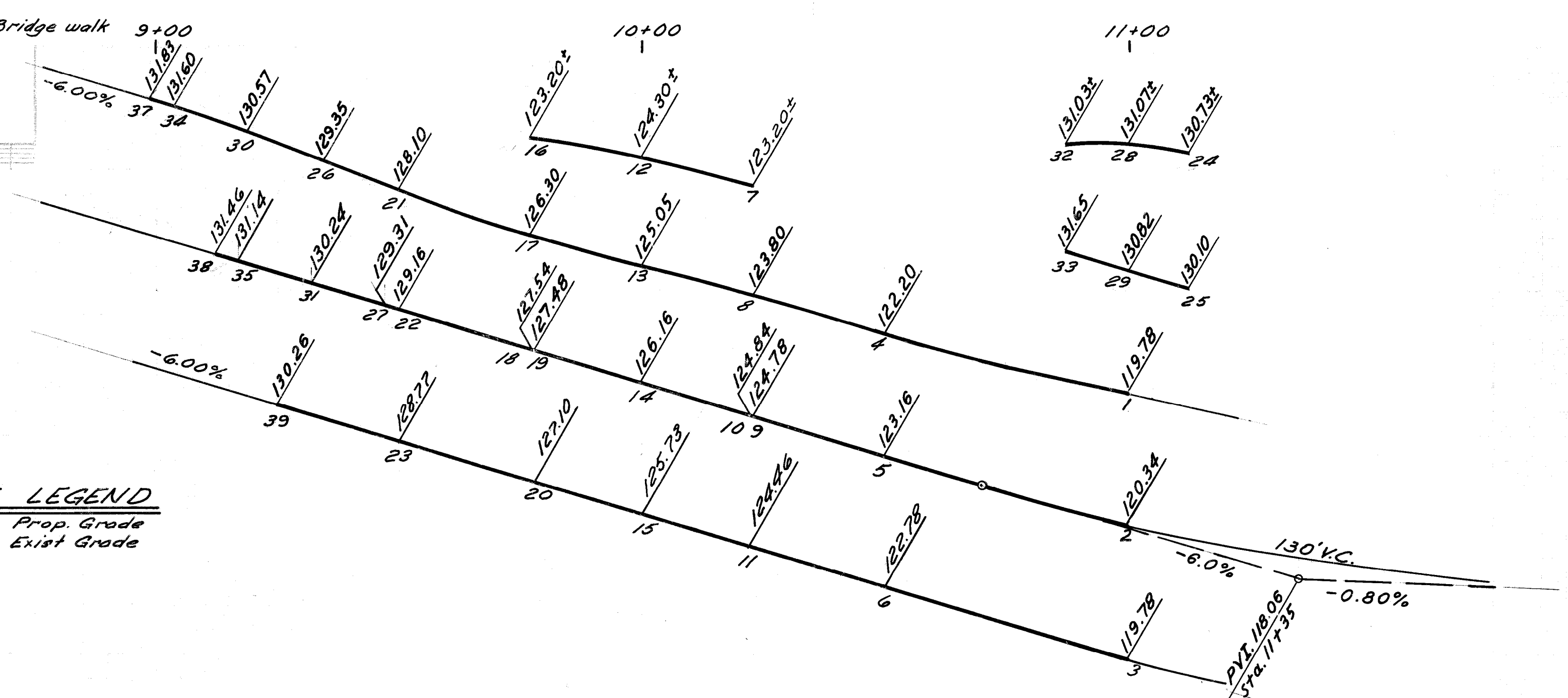
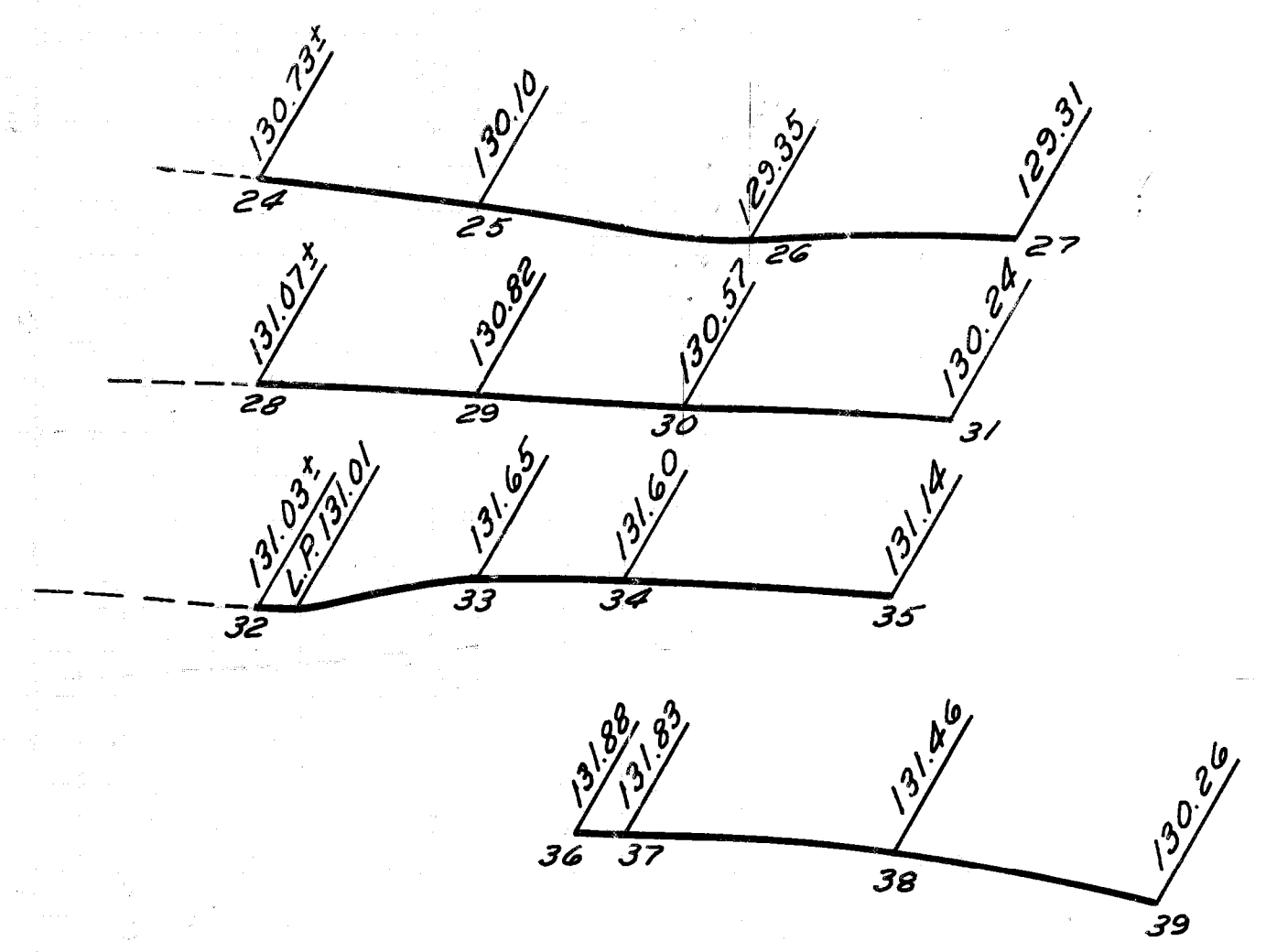
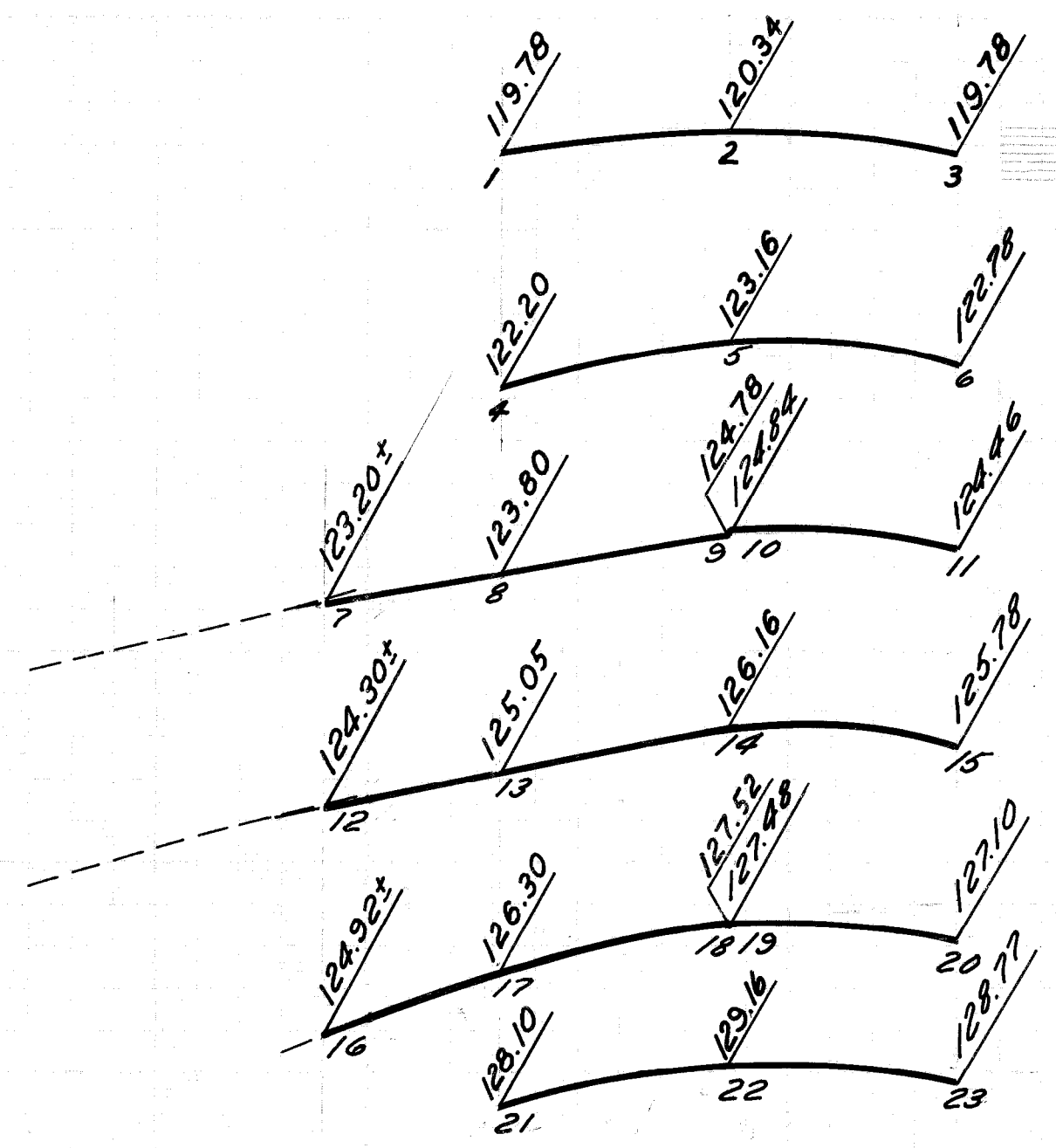


PLAN LEGEND
 XXXXXXX Strip & Adjust Asph. Surf.



See Bridge Plans for prop. Wall Details

9" curb face & variable S.W. slope to meet Bridge walk 9+00
 3/4" per ft.
 Transition curb face & S.W. slope
 3/8" per ft. S.W. slope. 7" curb face
 Transition curb face



PROFILE LEGEND
 --- Prop. Grade
 - - - Exist. Grade

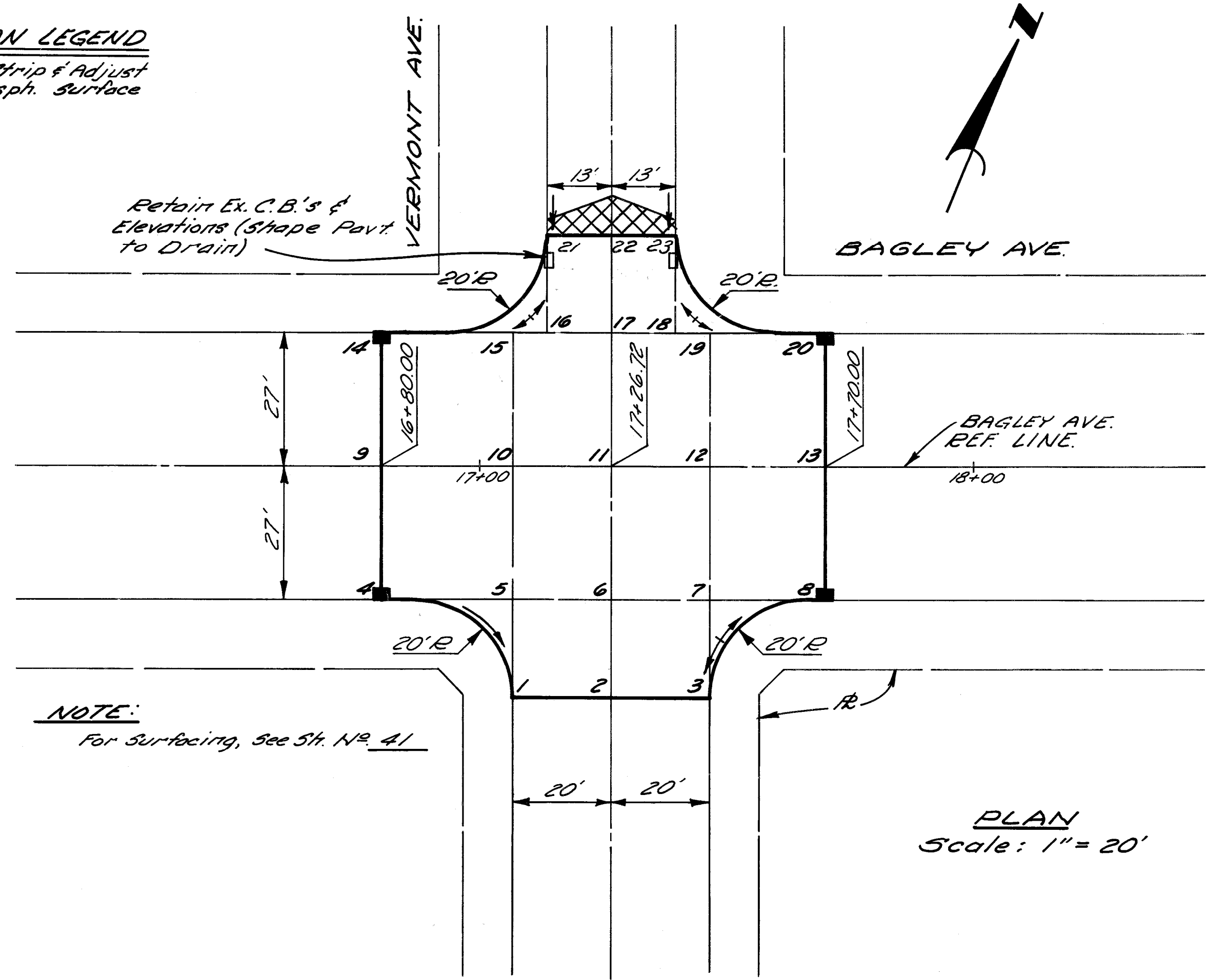
PROFILES & CROSS-SECTIONS
 Scale: Horiz. 1"=20'
 Vert. 1"=4'

BAGLEY AVE.

PLAN GRADE ESTIMATE FINAL		BY JD MS	CHECKED BY 	APPROVED: ENGINEER OF STREETS & HIGHWAYS ADMINISTRATIVE ENGINEER HEAD CIVIL ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	WEST SIDE INDUSTRIAL REHABILITATION PROJECT No. 2 BAGLEY AVE - 16TH ST. TO 12TH ST. PAVEMENT CONSTRUCTION & UTILITY RELOCATION DETAILED GRADES FOR BAGLEY AVE. AT 14TH ST. & 15TH ST.	INDEX NO. SHEET 43 OF 96 SHEETS CONTRACT NO. PW 6552 ASSIGNMENT NO. 1865A DATE
DESCRIPTION REVISIONS		DRN CK'D AP'VD DATE	CHECK 	REVIEW RP			

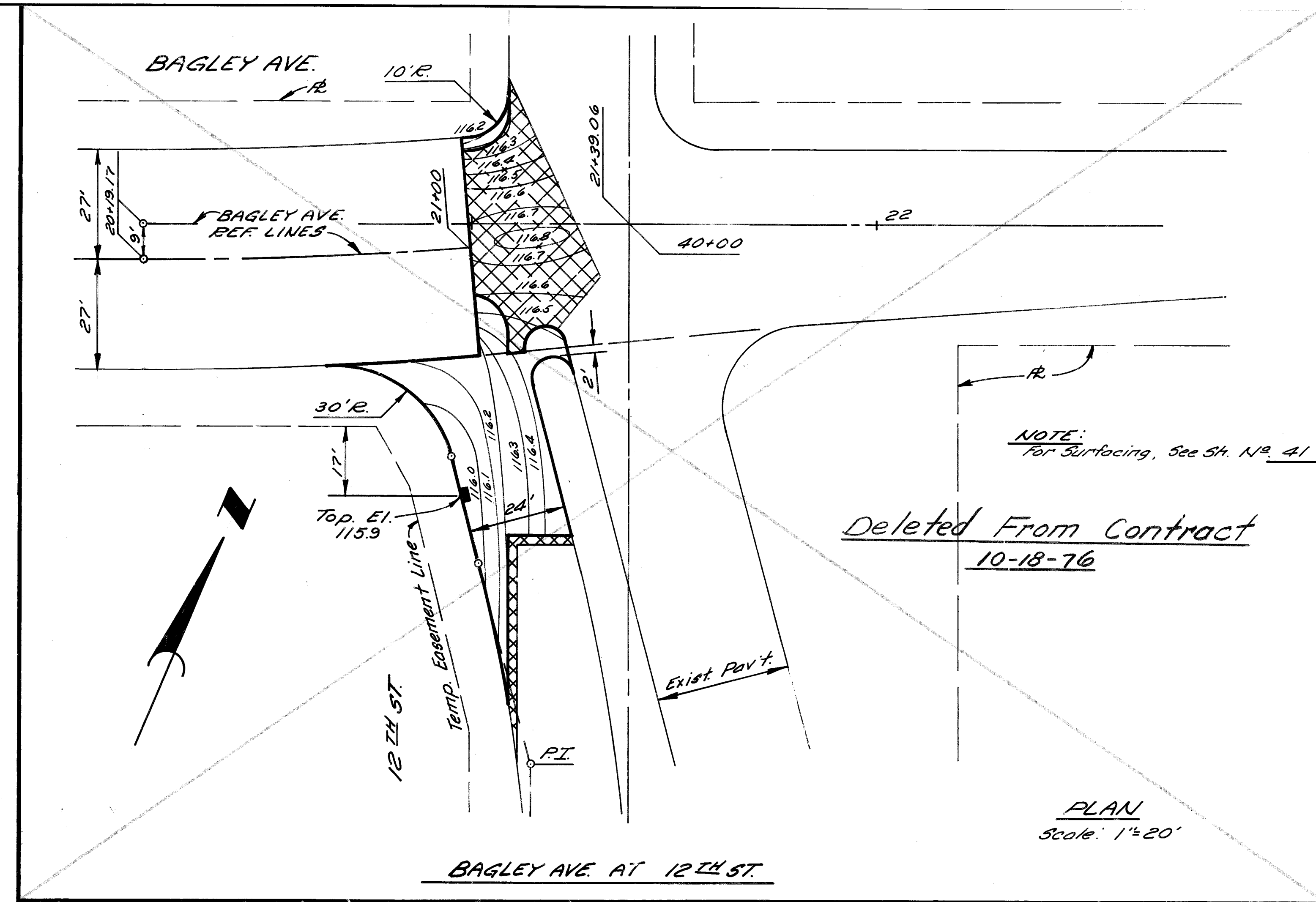
PLAN LEGEND

Strip & Adjust Asph. Surface



NOTE:
For Surfacing, See St. No. 41

BAGLEY AVE. AT VERMONT AVE.



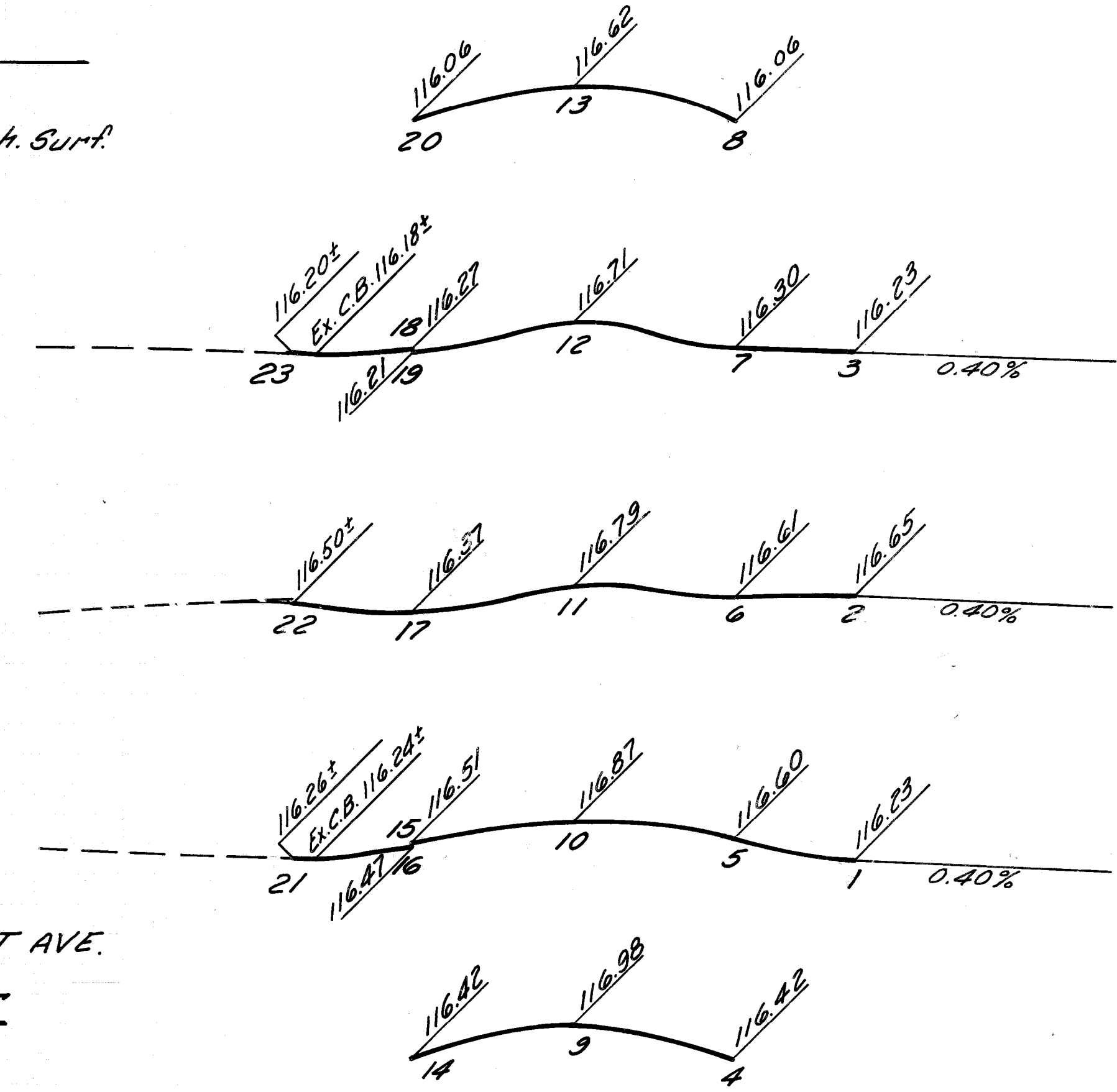
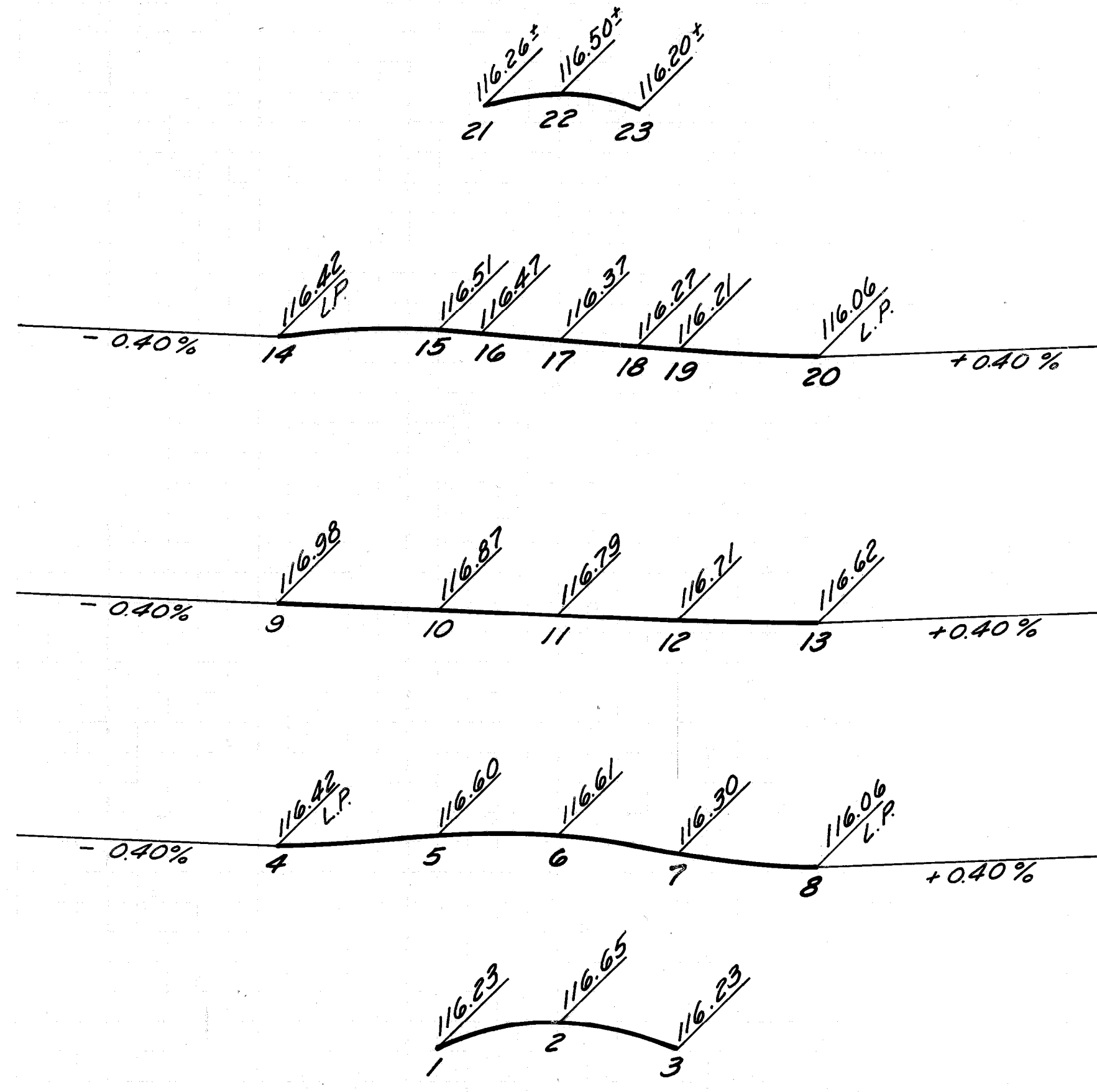
NOTE:
For Surfacing, See St. No. 41

Deleted From Contract
10-18-76

BAGLEY AVE. AT 12TH ST.

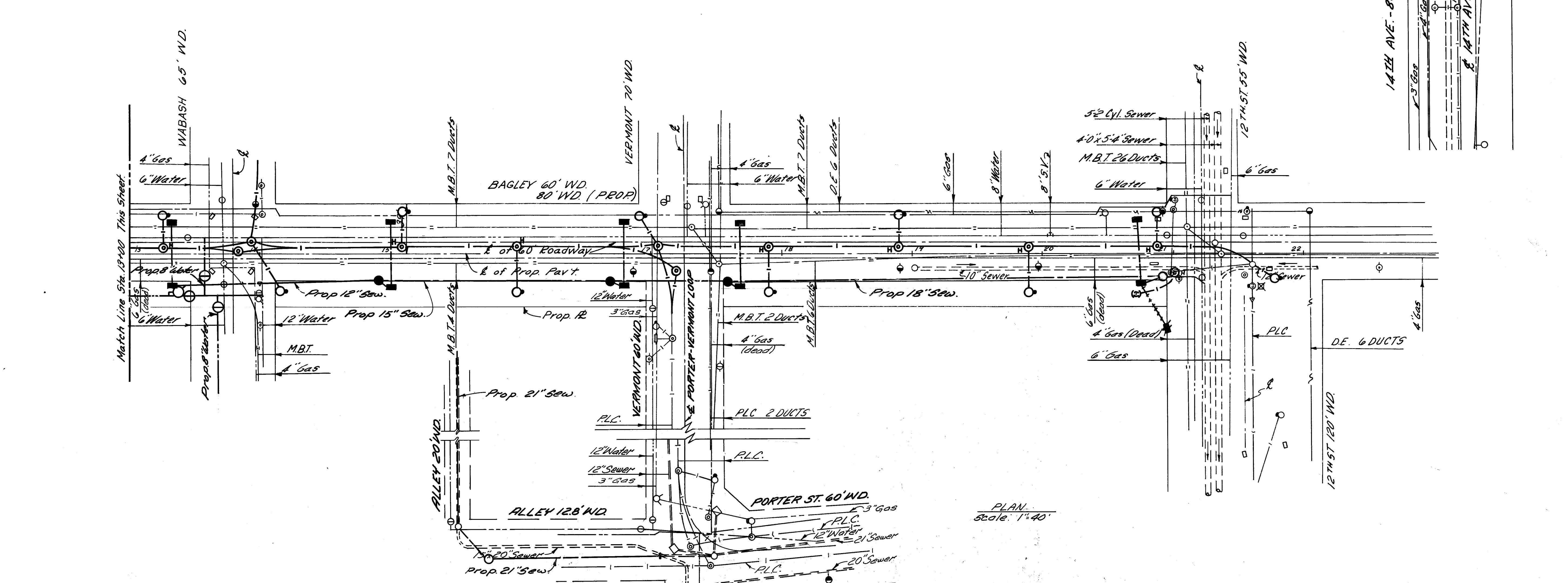
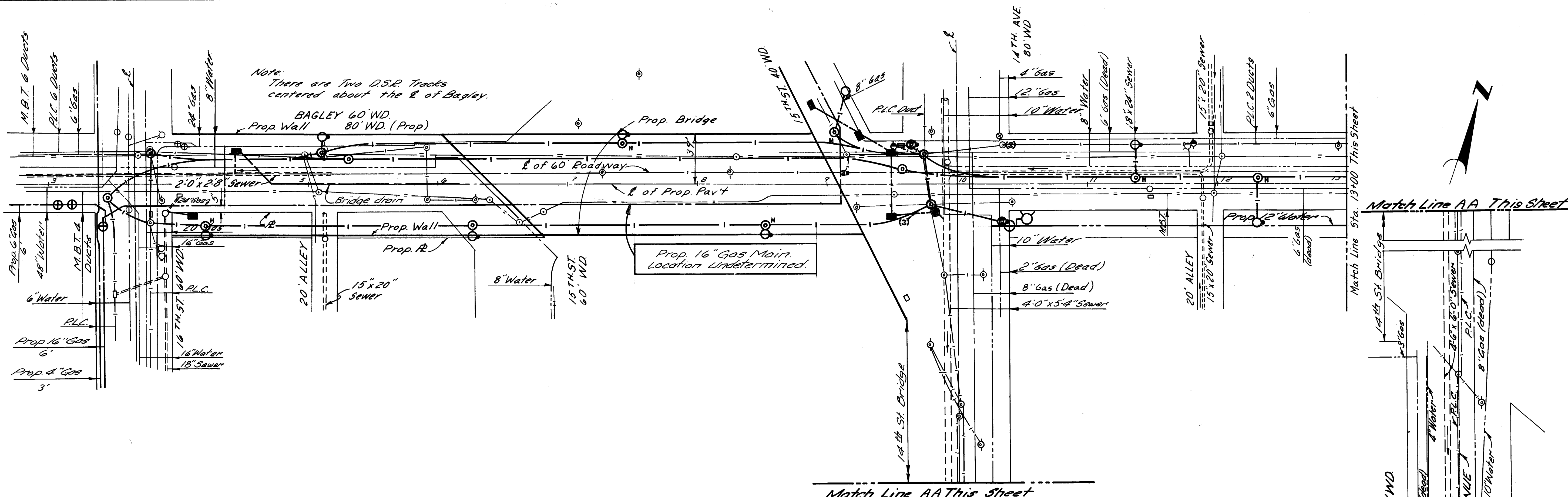
PROFILE LEGEND

--- Exist. Pav't. Grade
 --- Prop. Pav't. Grade
 ▨ Strip & Adjust Asph. Surf't.



BAGLEY AT VERMONT AVE.
 PROFILES &
 CROSS-SECTIONS
 Hor. 1" = 20'
 Scale: Vert. 1" = 2'

PLAN GRADE ESTIMATE DESCRIPTION REVISIONS		BY JD JD ESTIMATE CHECK REVIEW RP	CHECKED BY REVIEW 	APPROVED: ENGINEER OF EXPRESSWAYS	CITY OF DETROIT CITY ENGINEERING DEPARTMENT FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	WEST SIDE INDUSTRIAL REHABILITATION PROJECT No.2 BAGLEY AVE. - 16TH ST. TO 12TH ST. PAVEMENT CONSTRUCTION & UTILITY RELOCATION DETAILED GRADES FOR BAGLEY AVE. AT VERMONT & 12TH	INDEX NO. SHEET 44 OF 96 SHEETS CONTRACT NO. P.W.6552 ASSIGNMENT NO. 1865 (A) DATE
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9F	Prop. Utility Revisions @ 12th St.	RP	1577
COORD.	DESCRIPTION	DRN	CHK
REVISIONS LOCATED BY COORDINATES ON SHEET			

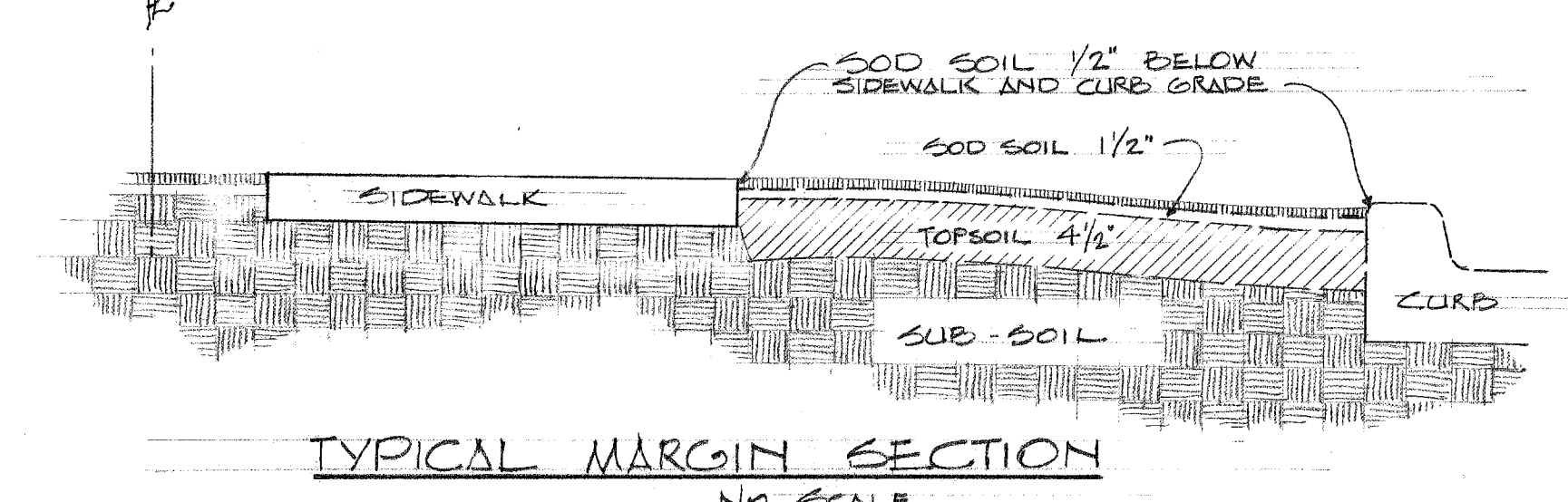
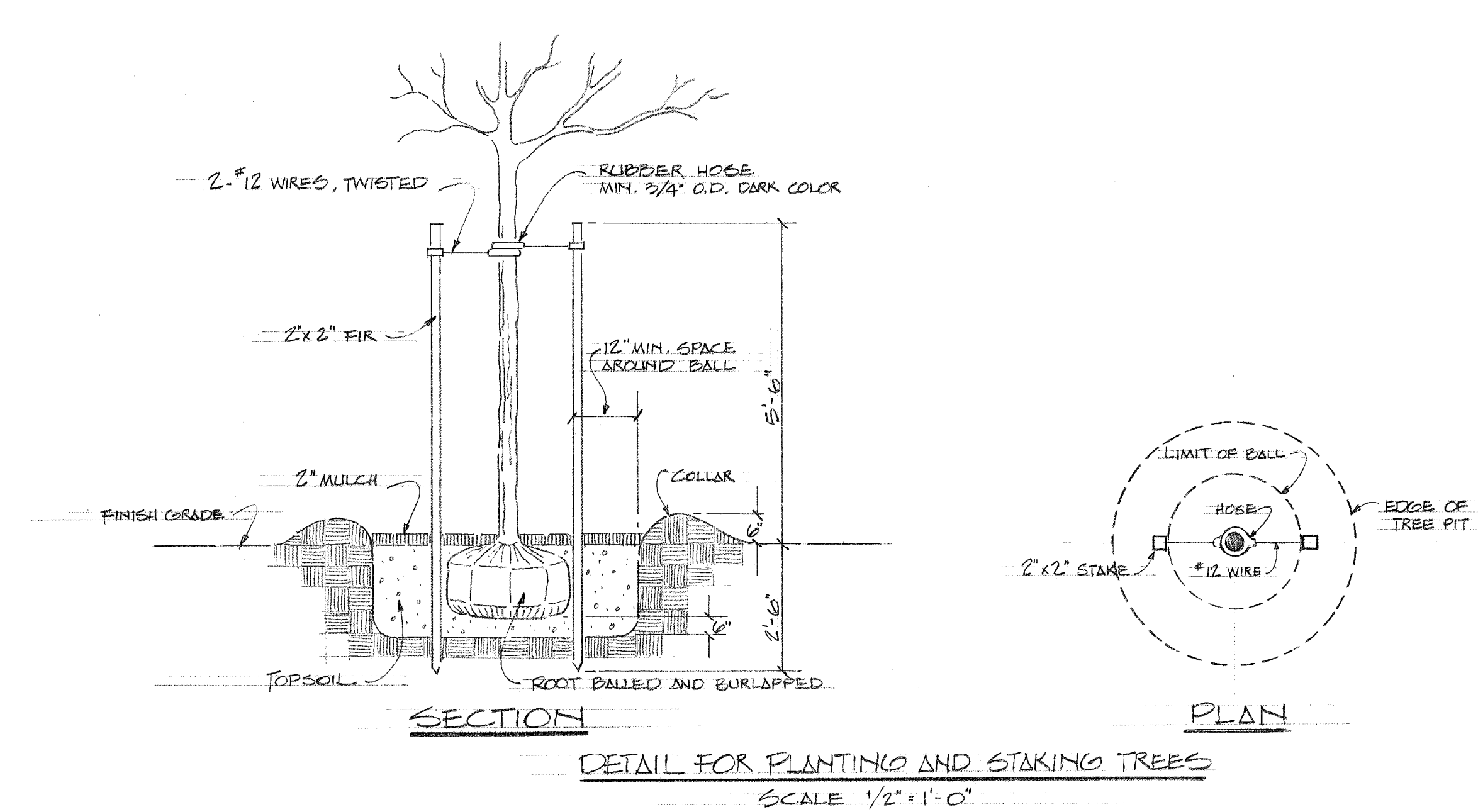
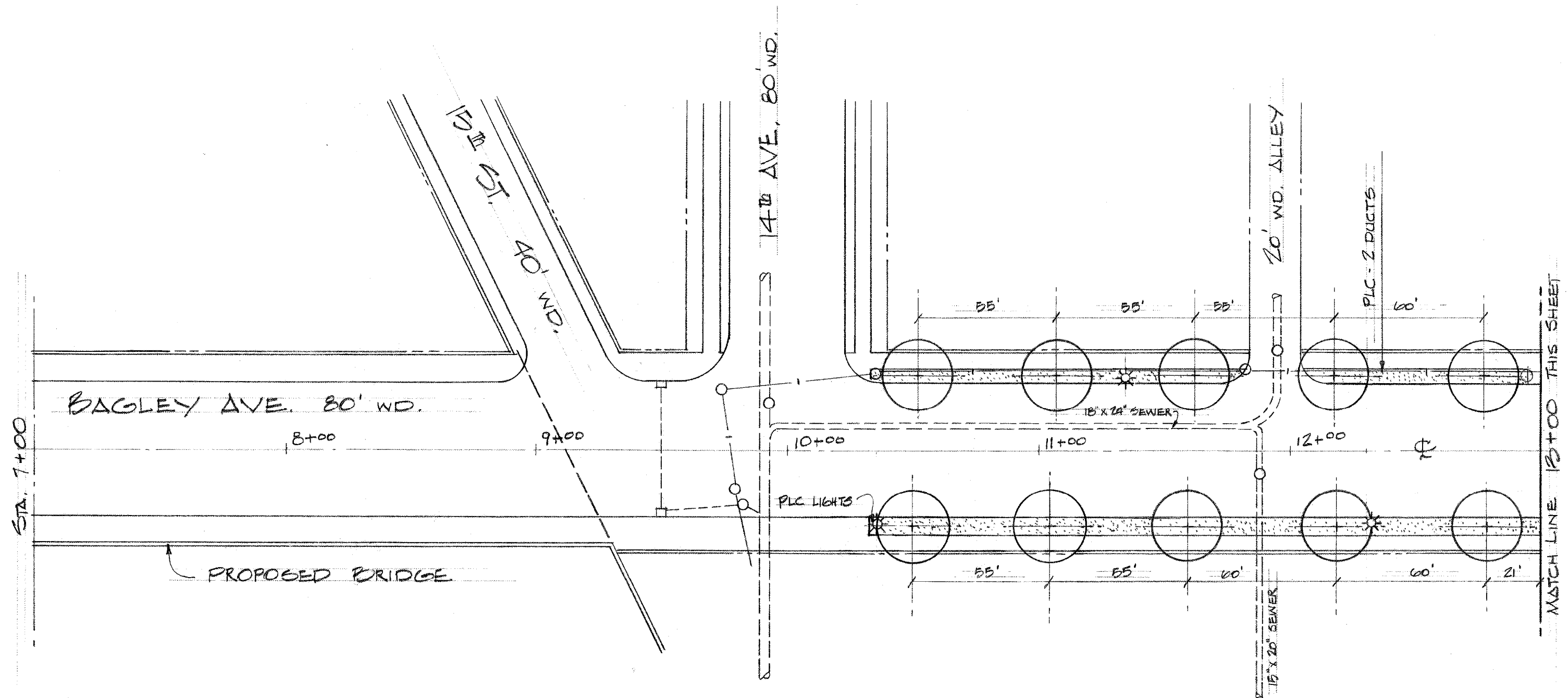
DESIGNED BY	MP
DRAWN BY	
TRACED BY	
CHECKED BY	RC

APPROVED:
Walter R. ...
 ENGINEER OF EXPRESSIONS

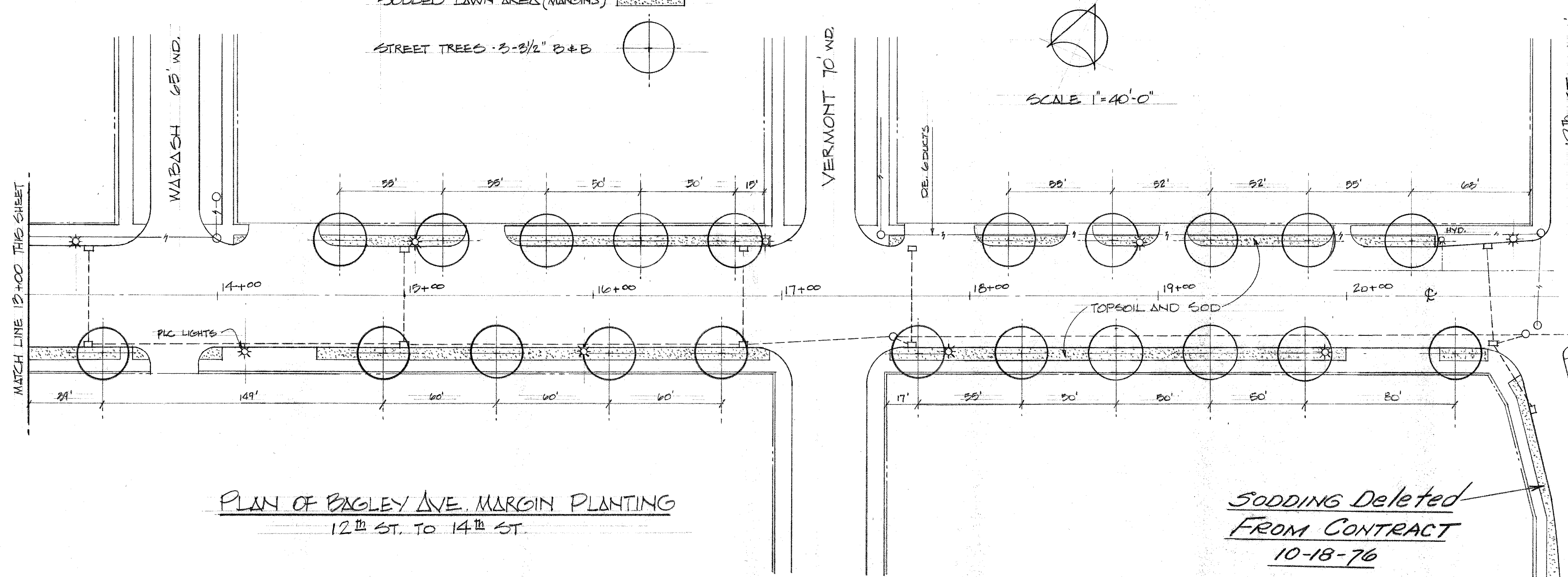
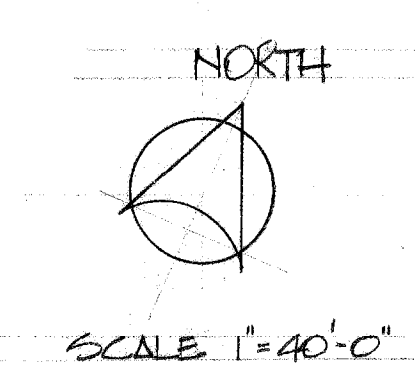
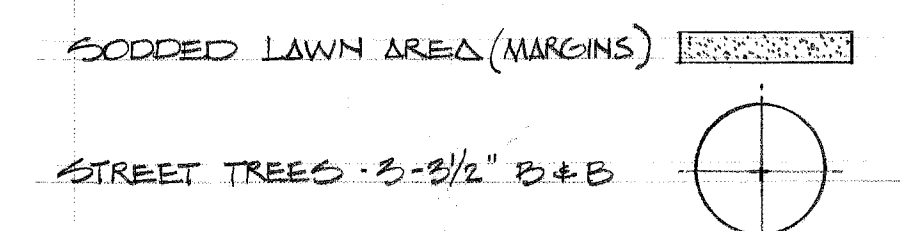
CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 FOR
 COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT

WEST SIDE INDUSTRIAL REHABILITATION PROJECT No. 2
 BAGLEY AVE. - 16TH ST. TO 12TH ST.
 PAVEMENT CONSTRUCTION & UTILITY RELOCATION
 UTILITIES, 16TH ST. TO 12TH ST.

SHEET	45	OF	96	SHEETS
CONTRACT No.	P.W.6552			
ASSIGNMENT No.	1865 A			
DATE				



LANDSCAPE SYMBOLS



- MATERIAL LIST**
- ACER PLATANOIDES - NORWAY MAPLE - 23 REQ'D.
 - 3-3 1/2" B+B. PLANT AT SPACING SHOWN. CENTER TREES BETWEEN SIDEWALK AND CURB.
 - TOPSOIL TO BE APPROXIMATELY 4 1/2" DEEP IN LAWN AREAS WITH FINISHED GRADE BEING 1/2" BELOW WALK AND CURB GRADE. TREE PITS TO RECEIVE 2 CURB YARDS OF TOPSOIL EACH. 180 CU.YDS REQ'D.
 - SOD - NURSERY GROWN KENTUCKY BLUE GRASS - 900 SQ.YDS.

DESIGNED BY E.H. VIALL DRAWN BY TRACED BY CHECKED BY		APPROVED: <i>W. Emory Wellman</i> CHIEF OF LANDSCAPE ARCHITECTURE FOR CITY ENGINEER		CITY OF DETROIT CITY ENGINEERING DEPARTMENT FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		WEST SIDE INDUSTRIAL REHABILITATION PROJECT No. 2 BAGLEY AVE. - 16TH ST. TO 12TH ST. PAVEMENT CONSTRUCTION & UTILITY RELOCATION LANDSCAPE DEVELOPMENT PLAN AND DETAILS		SHEET 46 OF 96 SHEETS CONTRACT No. P.W. 6552 DRWG No. DATE JAN. 14, 1974	
REVISIONS LOCATED BY COORDINATES ON SHEET		REVISIONS LOCATED BY COORDINATES ON SHEET		REVISIONS LOCATED BY COORDINATES ON SHEET		REVISIONS LOCATED BY COORDINATES ON SHEET		REVISIONS LOCATED BY COORDINATES ON SHEET	

