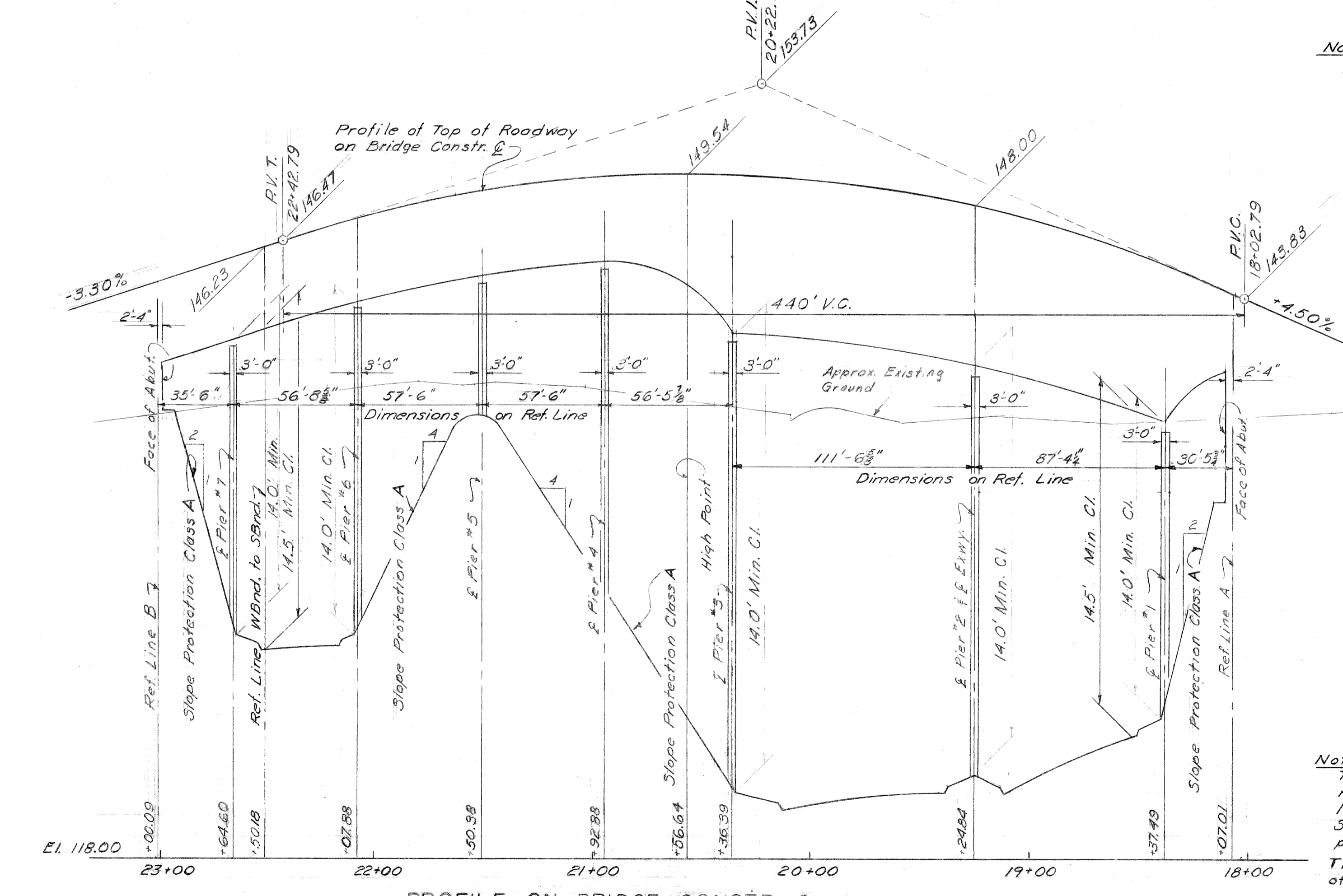
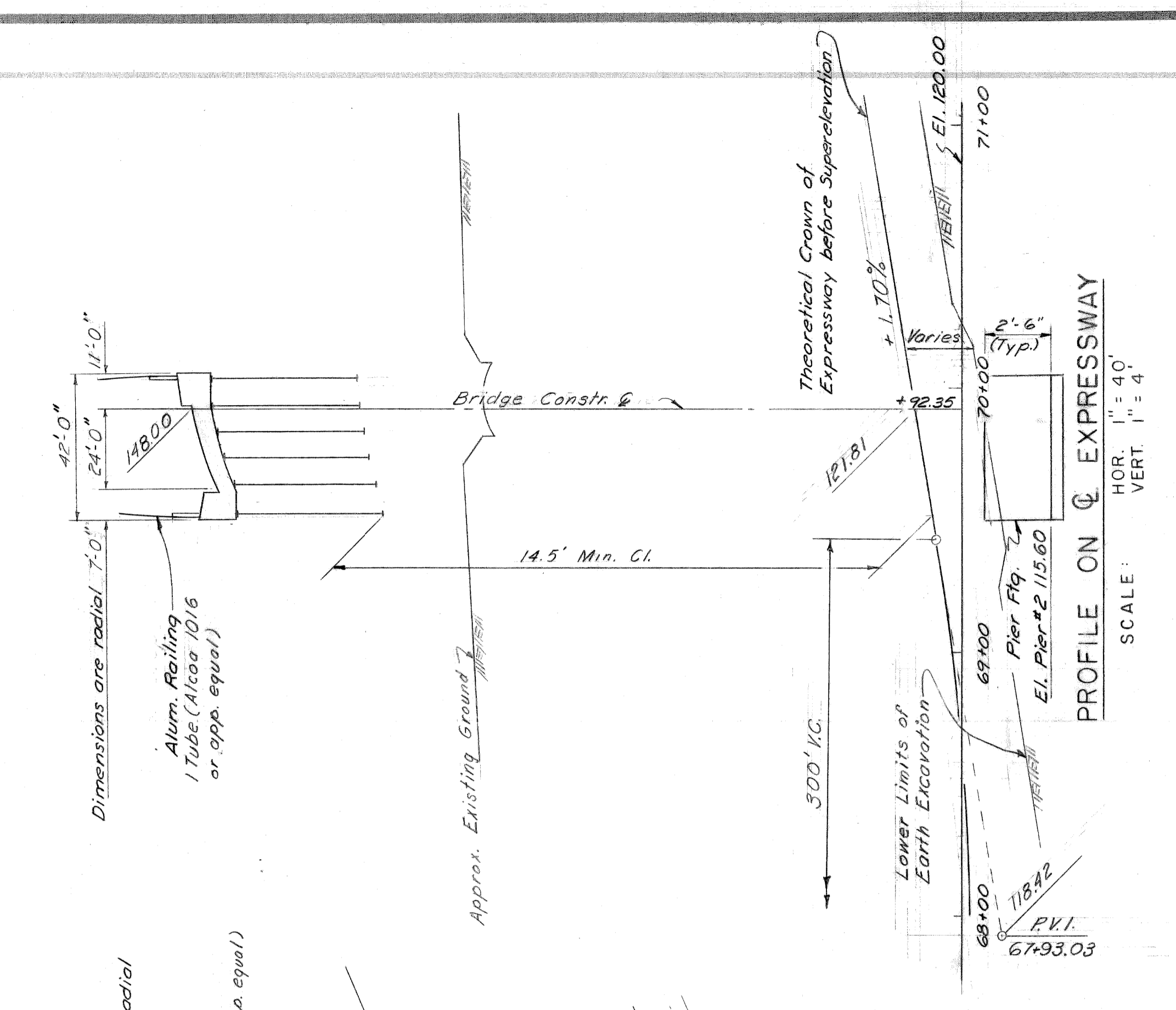


Note:  
See Sheet 254 for Alignment Diagram, Bench Marks, and Curve Data.



Note:  
The indicated slopes are normal to roadway shoulder line. Substructure dimensions are perpendicular to the substructure. This contract covers the construction of Pier Footings only.

Note:  
The stationing as shown on these plans for the intersection of the Bridge Constr. C of the NBnd. to WBnd. Turning Roadway and the centerline of the Walter P. Chrysler Expressway is believed to be correct. It shall, however, be checked at the time of starting construction and if the stationing shown on the plans is incorrect it shall be reported to the Design Office of Lansing and the structure shall be staked out using the actual intersection of the Bridge Constr. C of the NBnd. to WBnd. Turning Roadway and the centerline of the Walter P. Chrysler Expressway as the Control.

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

RECOMMENDED FOR APPROVAL: *R. R. Hicks*, Sr. Assoc. Engr. Design  
JOB No. PW897B(2)

NO.	REVISION DESCRIPTION	DATE	BY

**MICHIGAN STATE HIGHWAY DEPARTMENT**

CHRYSLER-FISHER INTERCHANGE  
NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**GENERAL DRAWING**

CITY OF DETROIT  
SQUAD BOSS: *C. L. Lister* 9-59  
DRAWN BY: *F. Watts* 9-59  
TRACED BY: *O. G. L.* 9-59  
CHECKED BY: *O. G. L.* 9-59  
SHEET 253 OF 414

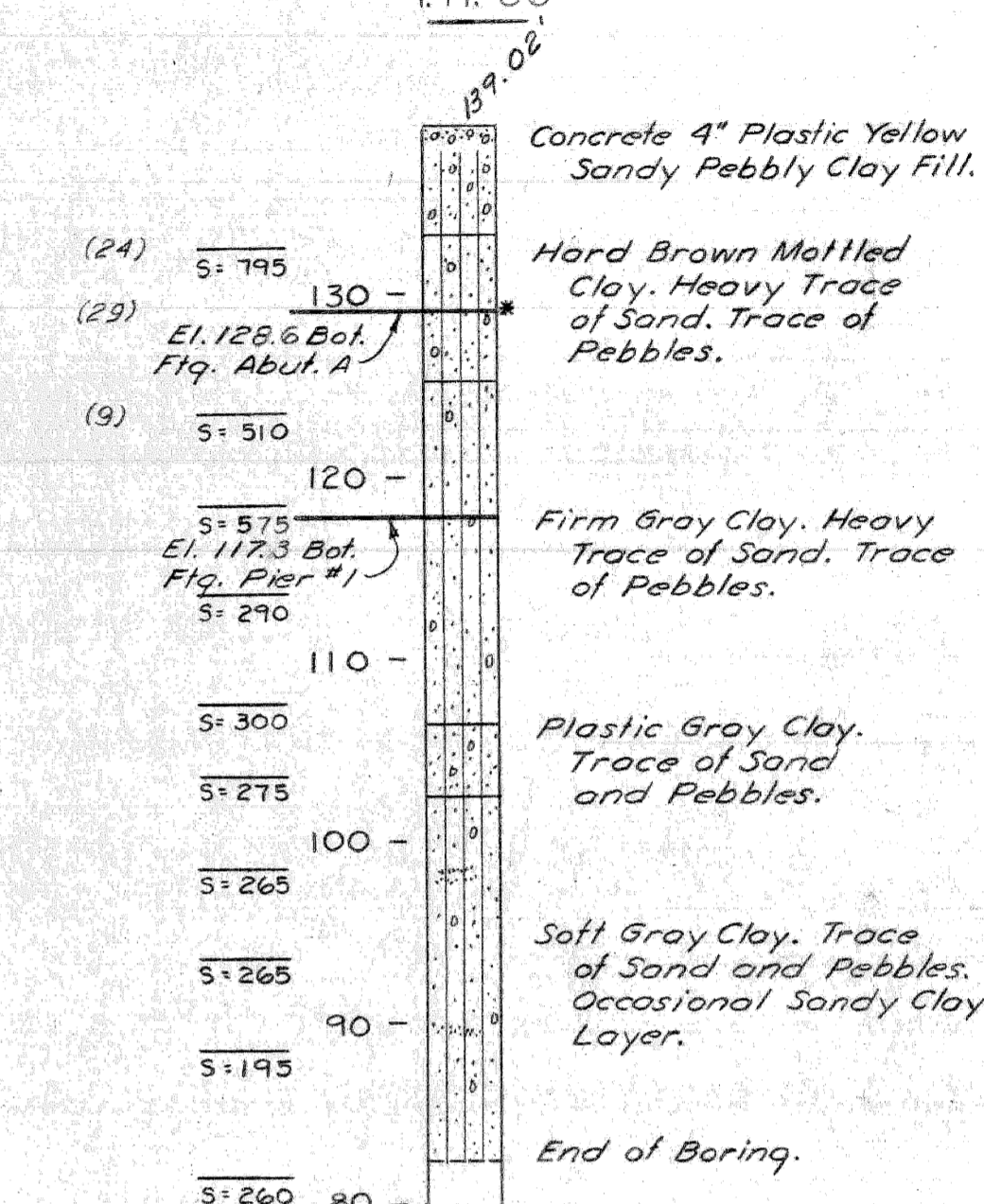
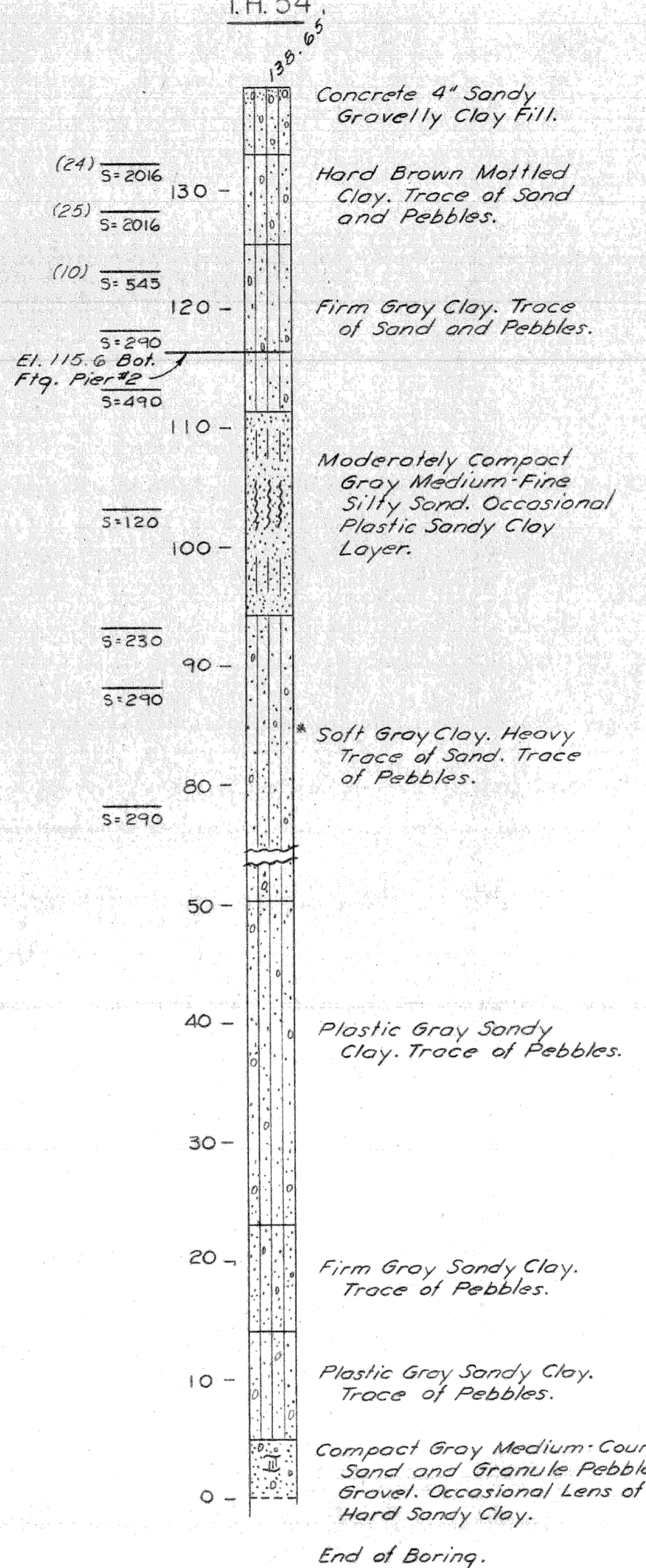
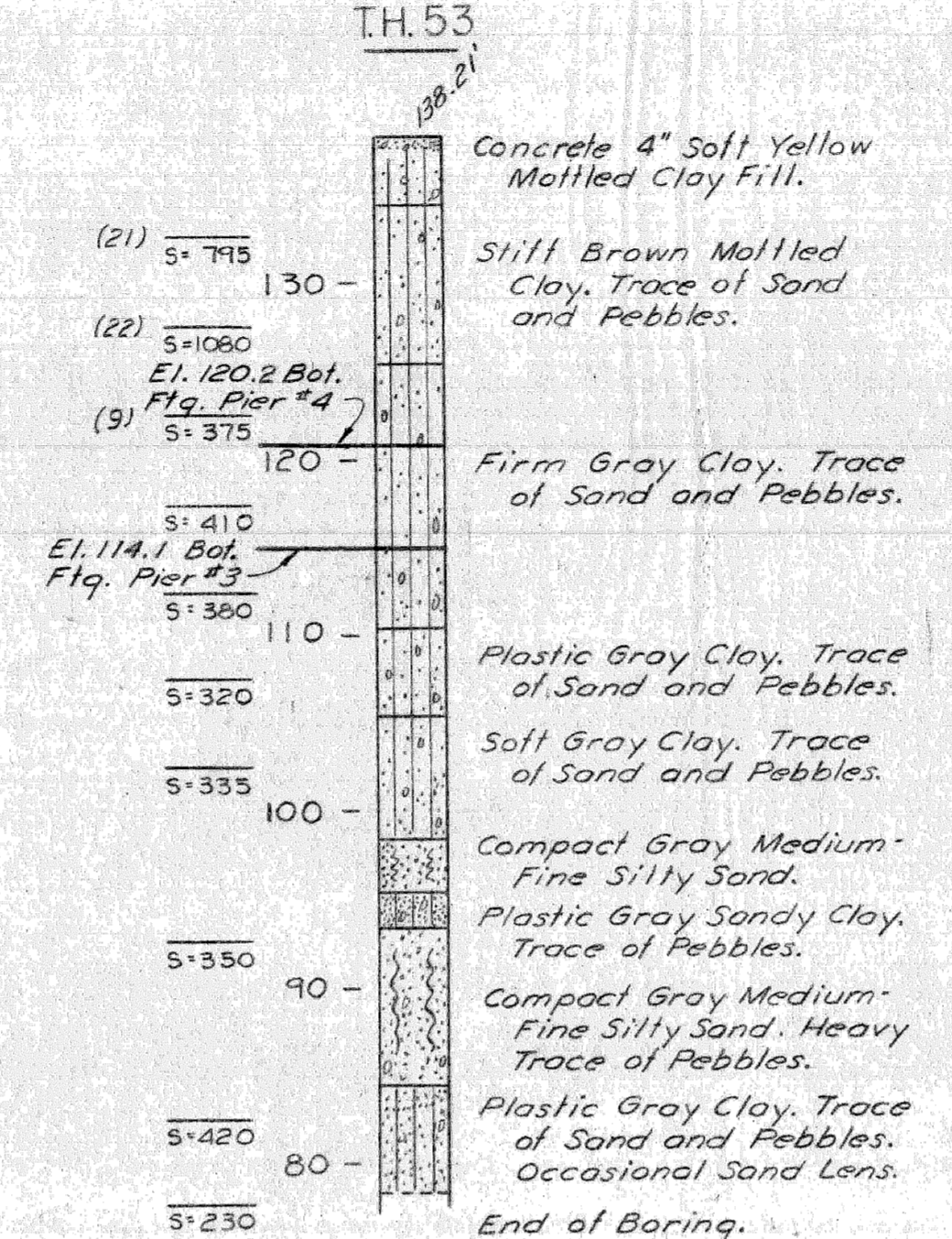
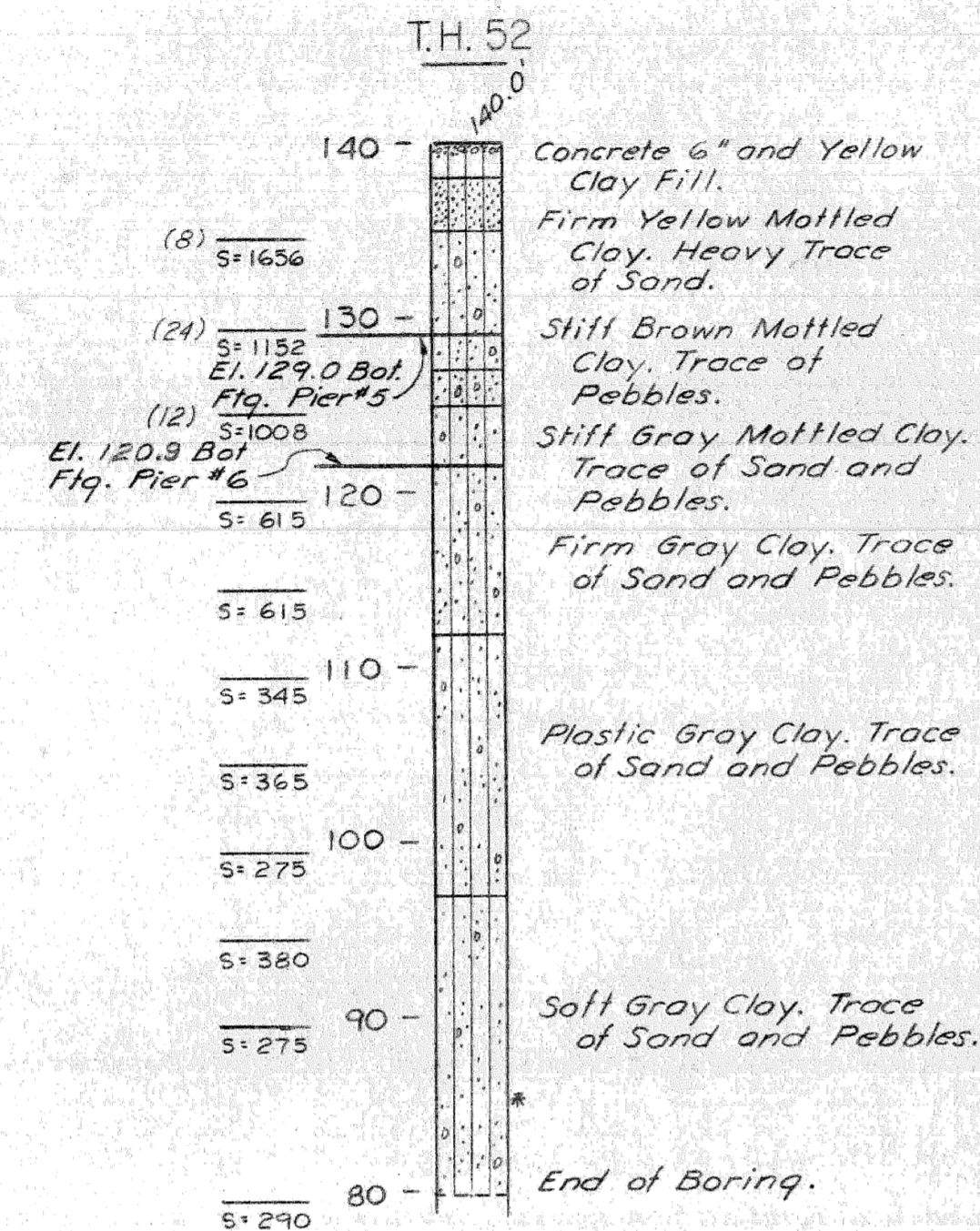
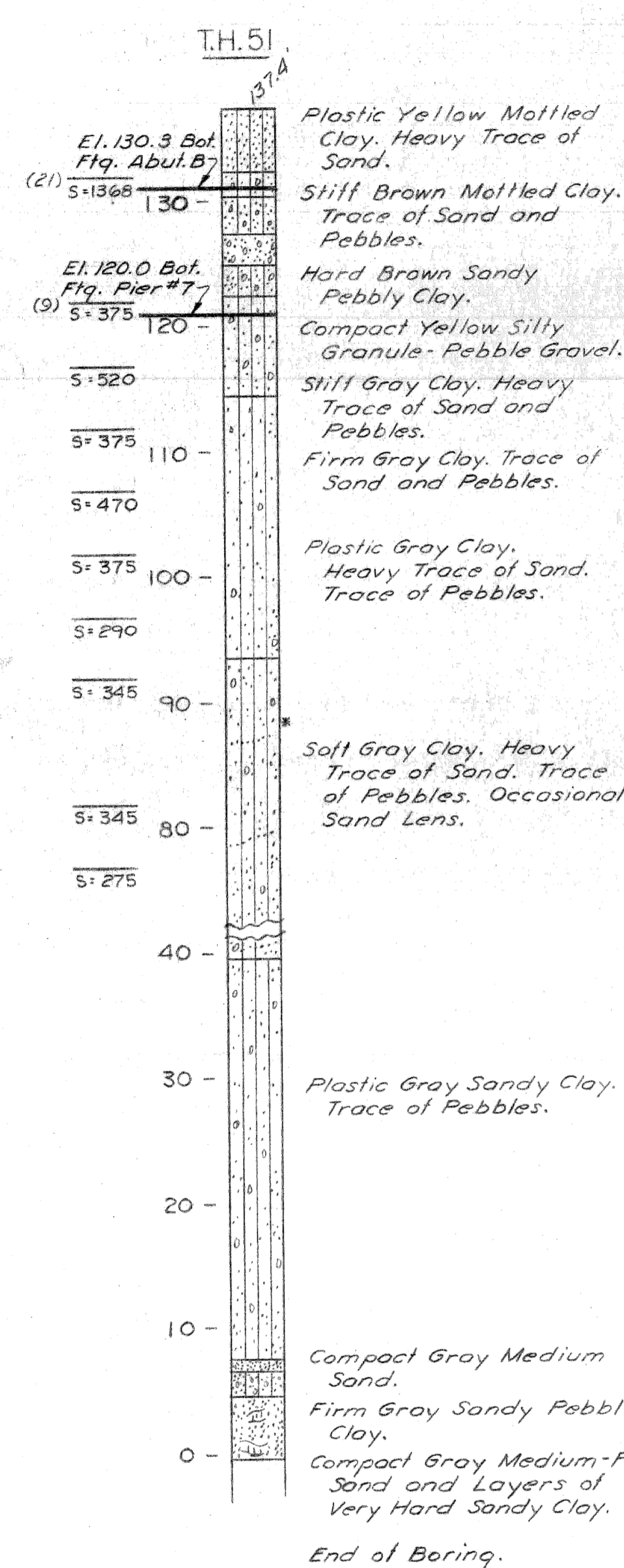
APPROVED: *J. V. Murray* 9-23-60, COORDINATING ENGINEER  
APPROVED: *E. S. Gleason* 9-23-60, ENGINEER OF DESIGN - CONSULTANTS

**B14 OF 82-22-18**

Work this sheet with Sheet #254



LOG OF BORINGS

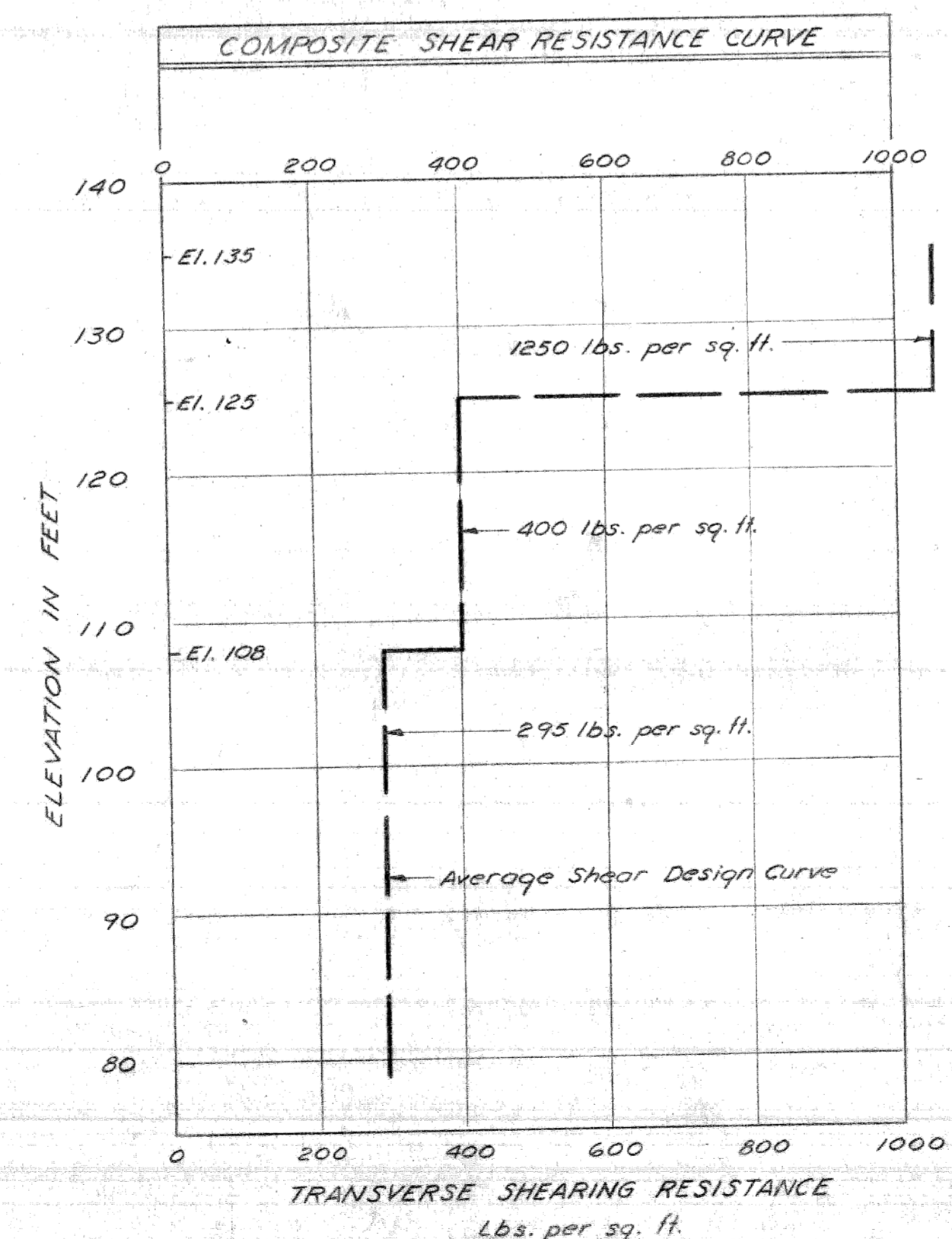


\* Indicates unsuccessful recovery of liner sample.  
 S Indicates shearing resistance in lbs per sq. ft.  
 (21) Indicates penetration in number of blows per ft.

**NOTE:**  
 Penetration Resistance (Blow Count) is measured by the number of blows required to drive a core sampler one foot using a 140 lb. weight falling 30 in. Where no values are shown, sampler was either hand driven or pushed.

Transverse Shearing Resistance has been determined from samples at the M.S.H.D. Laboratory in Ann Arbor.

**NOTE:**  
 This contract covers the construction of Pier Footings only.



Work this drwg. with drwg. #251

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

RECOMMENDED FOR APPROVAL: *R.P. Nicks* Sr. Assoc. Engr. - Design

JOB No. PW 897B(2)

REVISIONS			
NO.	DESCRIPTION	DATE	BY

CONTROL SECTION 82251-30203

**MICHIGAN STATE HIGHWAY DEPARTMENT**

CHRYSLER-FISHER INTERCHANGE  
 NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
 WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**SOIL BORING LOG**

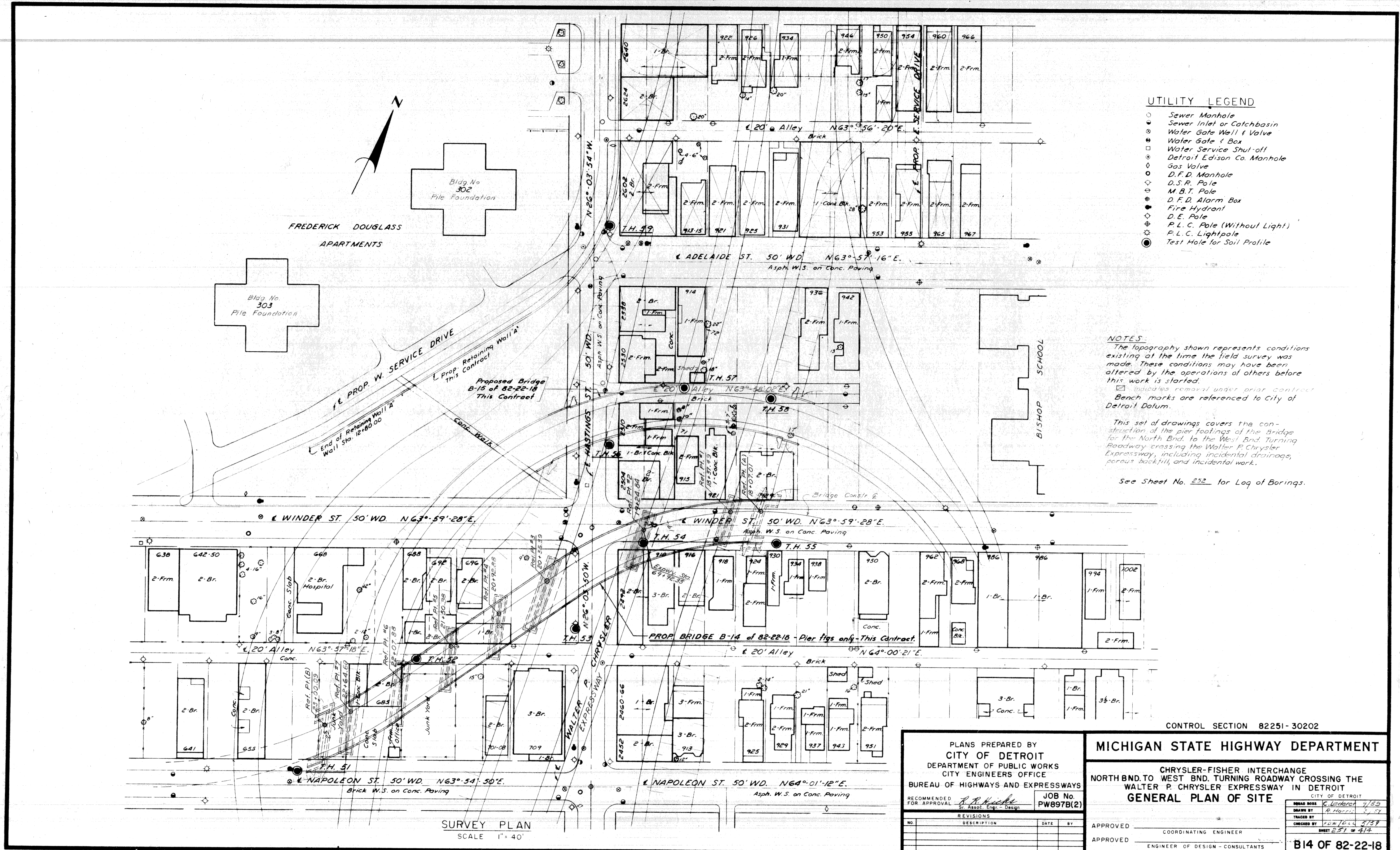
CITY OF DETROIT

SQUAD BOSS: *G. Lederer* 9/59  
 DRAWN BY: *R. Harris* 9/59  
 CHECKED BY: *F.D.W. D.L.* 9/59  
 SHEET 252 of 414

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

**B14 OF 82-22-18**





- UTILITY LEGEND**
- Sewer Manhole
  - Sewer Inlet or Catchbasin
  - ⊗ Water Gate Wall & Valve
  - ⊕ Water Gate & Box
  - ⊖ Water Service Shut-off
  - ⊙ Detroit Edison Co. Manhole
  - ⊕ Gas Valve
  - ⊙ D.F.D. Manhole
  - ⊙ D.S.R. Pole
  - ⊕ M.B.T. Pole
  - ⊕ D.F.D. Alarm Box
  - ⊕ Fire Hydrant
  - ⊕ D.E. Pole
  - ⊕ P.L.C. Pole (Without Light)
  - ⊕ P.L.C. Lightpole
  - ⊙ Test Hole for Soil Profile

**NOTES:**  
 The topography shown represents conditions existing at the time the field survey was made. These conditions may have been altered by the operations of others before this work is started.  
 ⊗ indicates removal under prior contract.  
 Bench marks are referenced to City of Detroit Datum.  
 This set of drawings covers the construction of the pier footings of the Bridge for the North Bnd. to the West Bnd. Turning Roadway crossing the Walter P. Chrysler Expressway, including incidental drainage, porous backfill, and incidental work.  
 See Sheet No. 232 for Log of Borings.

**SURVEY PLAN**  
 SCALE 1" = 40'

CONTROL SECTION 82251-3020

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

RECOMMENDED FOR APPROVAL *R.R. Hinkle*  
 St. Assoc. Engr. - Design

JOB No. PW897B(2)

NO.	DESCRIPTION	DATE	BY

**MICHIGAN STATE HIGHWAY DEPARTMENT**

CHRYSLER-FISHER INTERCHANGE  
 NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
 WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**GENERAL PLAN OF SITE**

CITY OF DETROIT

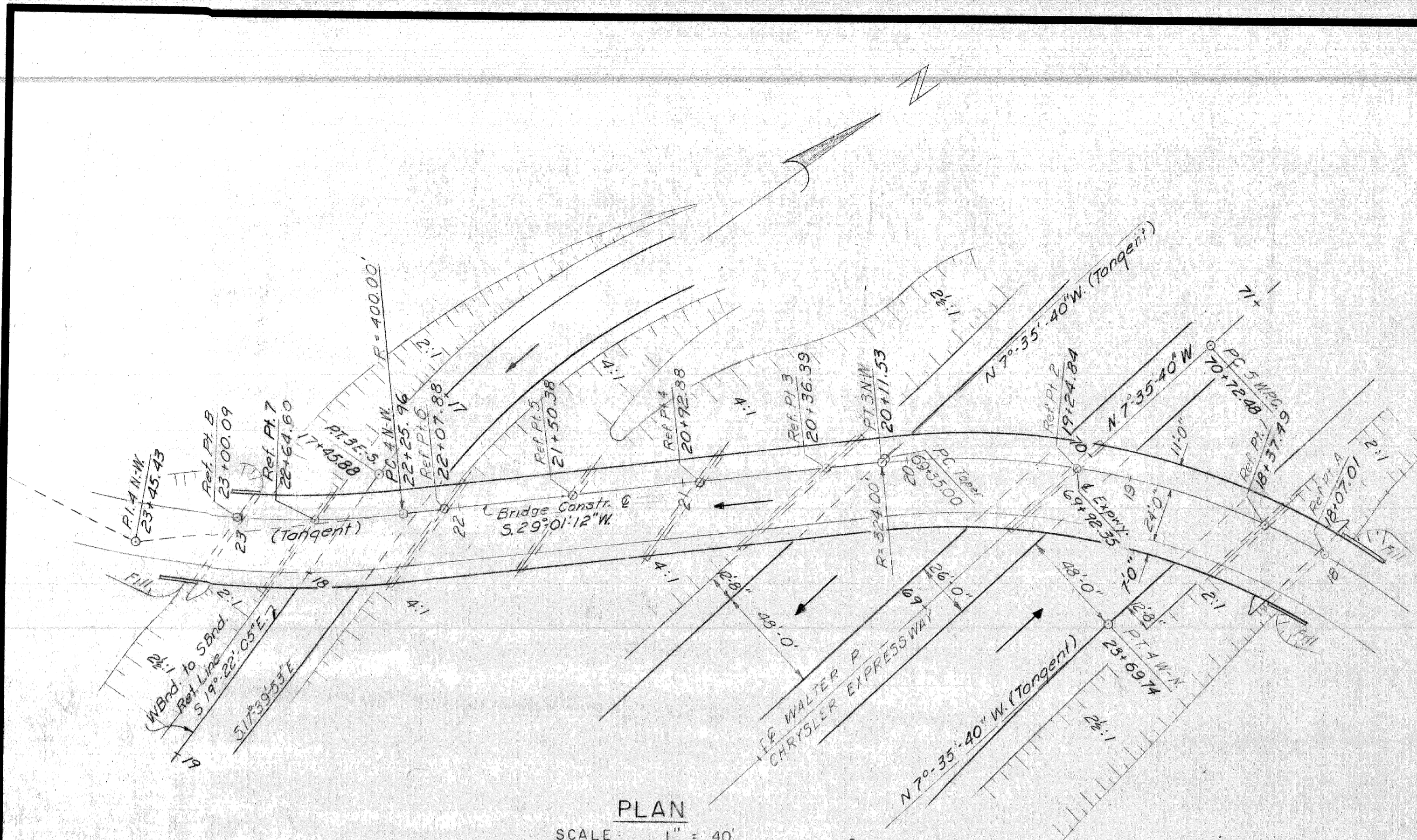
DRAWN BY	C. Lederer	7/59
TRACED BY	R. Harris	3/57
CHECKED BY	EDM JONES	3/37
		SHEET 251 of 414

APPROVED \_\_\_\_\_ COORDINATING ENGINEER

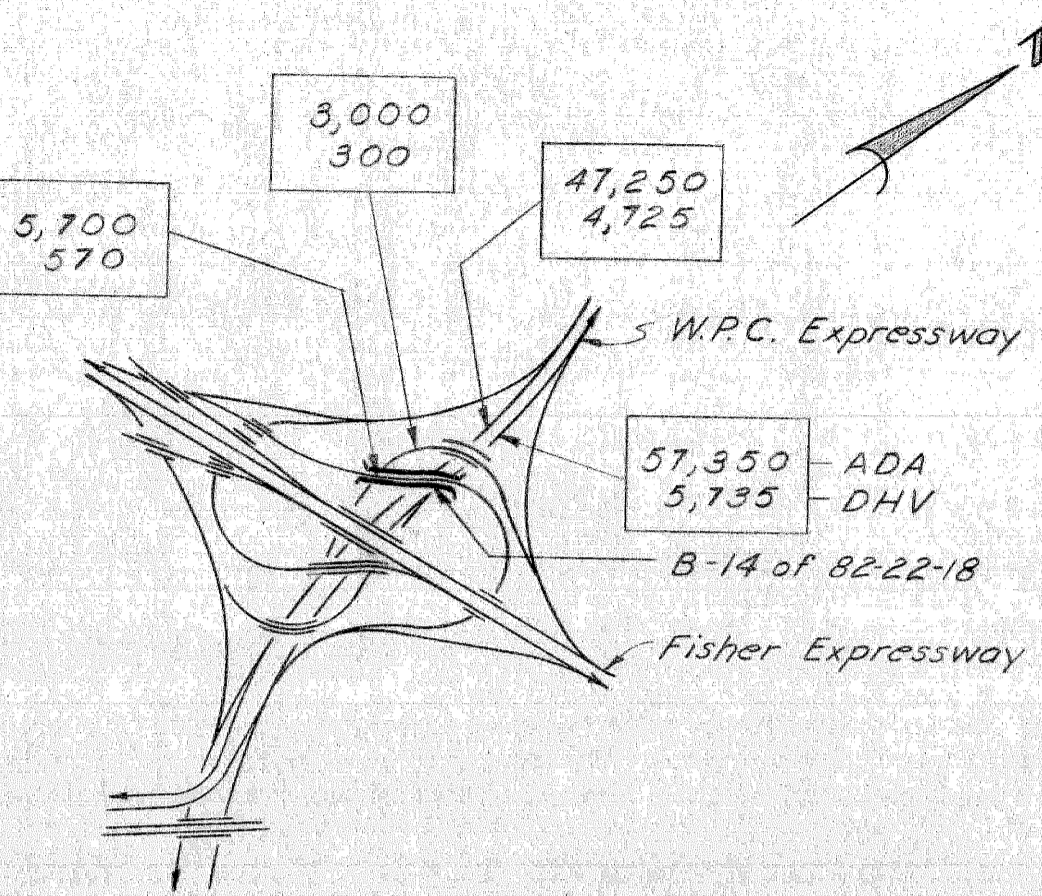
APPROVED \_\_\_\_\_ ENGINEER OF DESIGN - CONSULTANTS

**B14 OF 82-22-18**



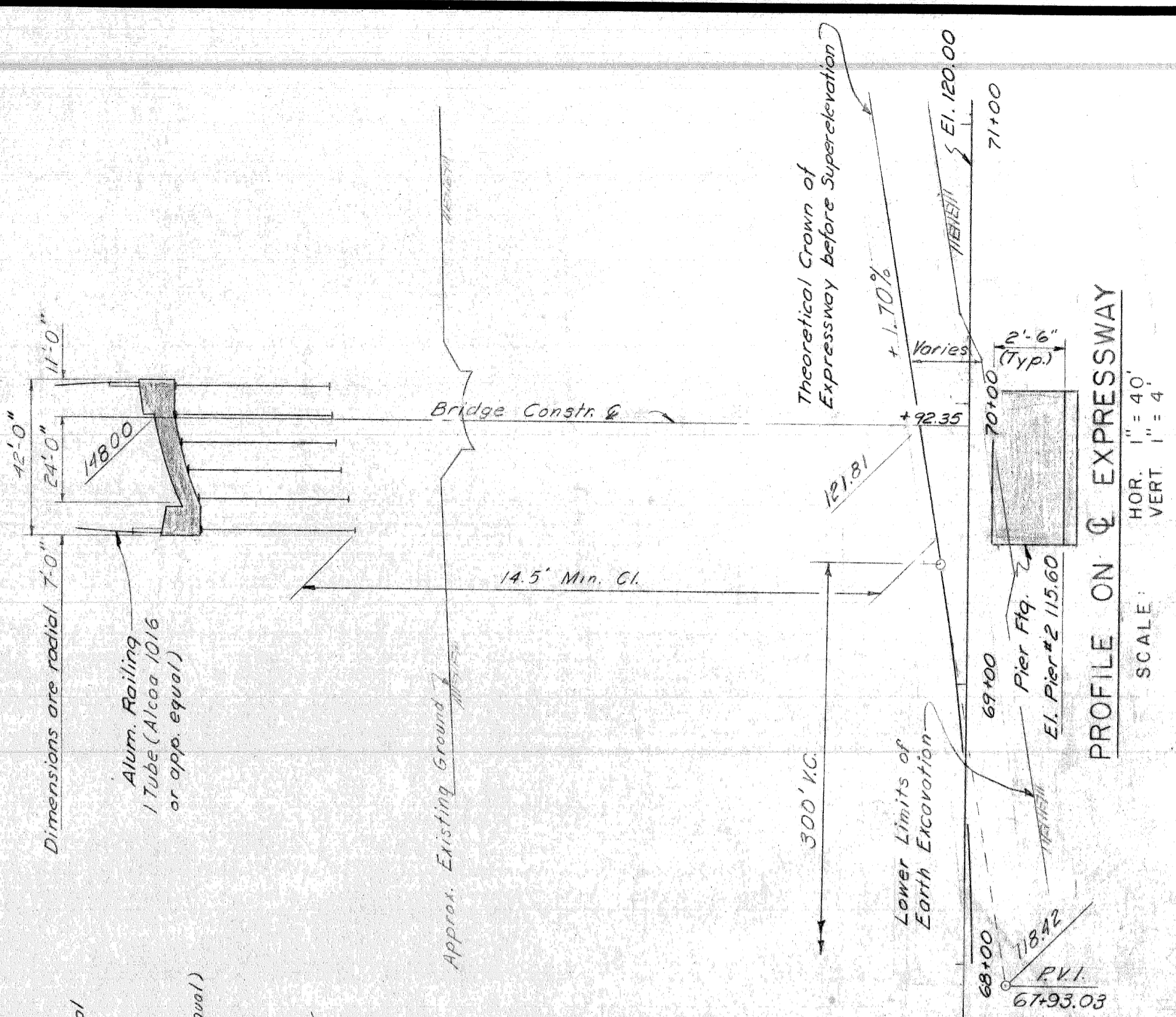


PLAN  
SCALE 1" = 40'

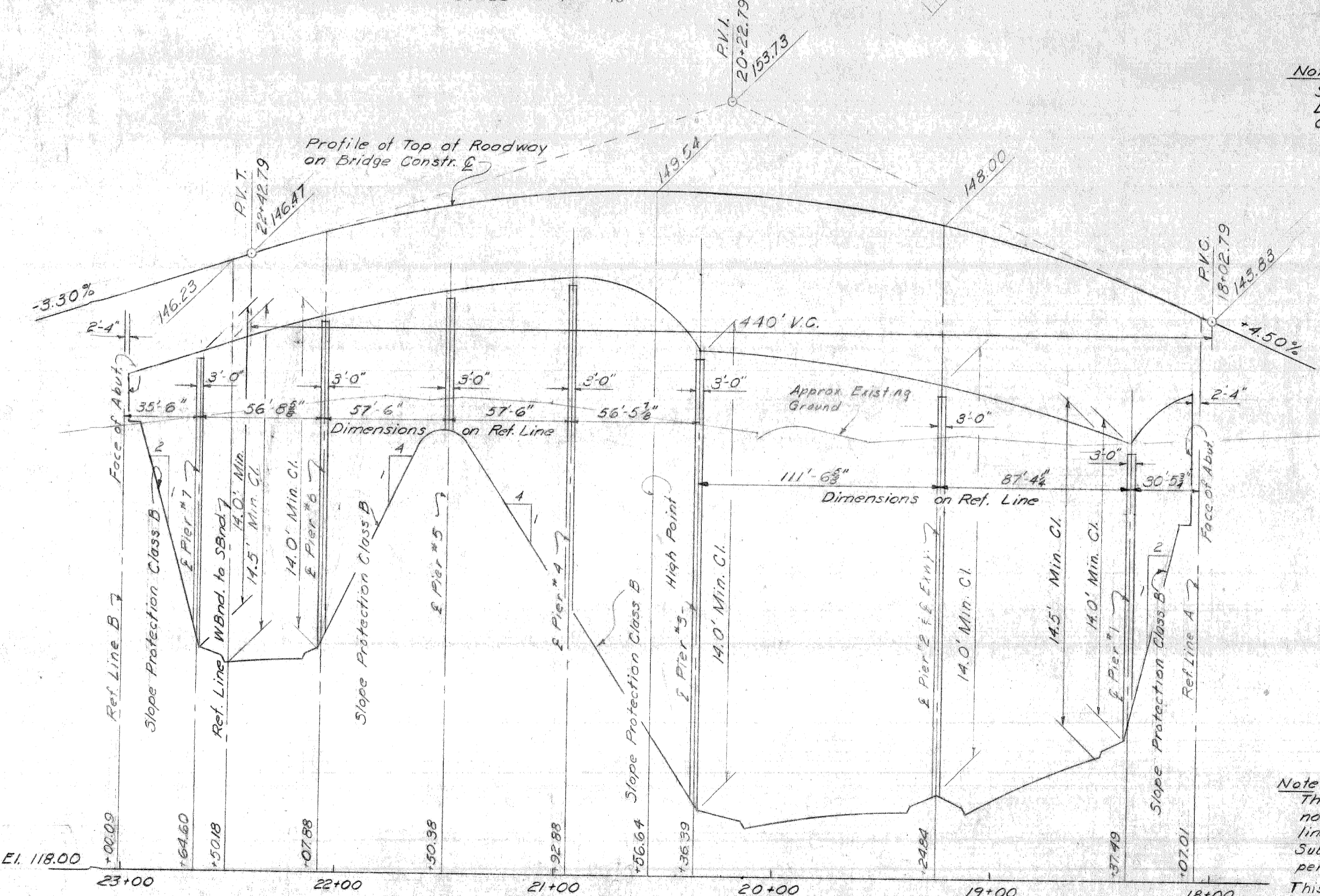


TRAFFIC COUNT  
ESTIMATED TRAFFIC - 1975

Note:  
See Sheet 254 for Alignment Diagram, Bench Marks, and Curve Data.



PROFILE ON EXPRESSWAY  
HOR. 1" = 40'  
VERT. 1" = 4'



PROFILE ON BRIDGE CONSTR. C

SCALE HOR. 1" = 40'  
VERT. 1" = 4'

Note:  
The stationing as shown on these plans for the intersection of the Bridge Constr. C of the NBnd. to WBnd. Turning Roadway and the centerline of the Walter P. Chrysler Expressway is believed to be correct. It shall, however, be checked at the time of starting construction and if the stationing shown on the plans is incorrect it shall be reported to the Design Office of Lansing and the structure shall be staked out using the actual intersection of the Bridge Constr. C of the NBnd. to WBnd. Turning Roadway and the centerline of the Walter P. Chrysler Expressway as the Control.

Note:  
The indicated slopes are normal to roadway shoulder line.  
Substructure dimensions are perpendicular to the substructure.  
This contract covers the construction of Pier Footings only.

Work this sheet with Sheet 254

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

RECOMMENDED FOR APPROVAL: *R. H. ...*  
Sr. Assistant Engr. - Design

JOB No. PW897B(2)

NO.	DESCRIPTION	DATE	BY

CONTROL SECTION 82251-30202

MICHIGAN STATE HIGHWAY DEPARTMENT

CHRYSLER-FISHER INTERCHANGE  
NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

GENERAL DRAWING

CITY OF DETROIT

SQUAD BOSS: *R. ...*  
DRAWN BY: *F. ...*  
CHECKED BY: *O. ...*

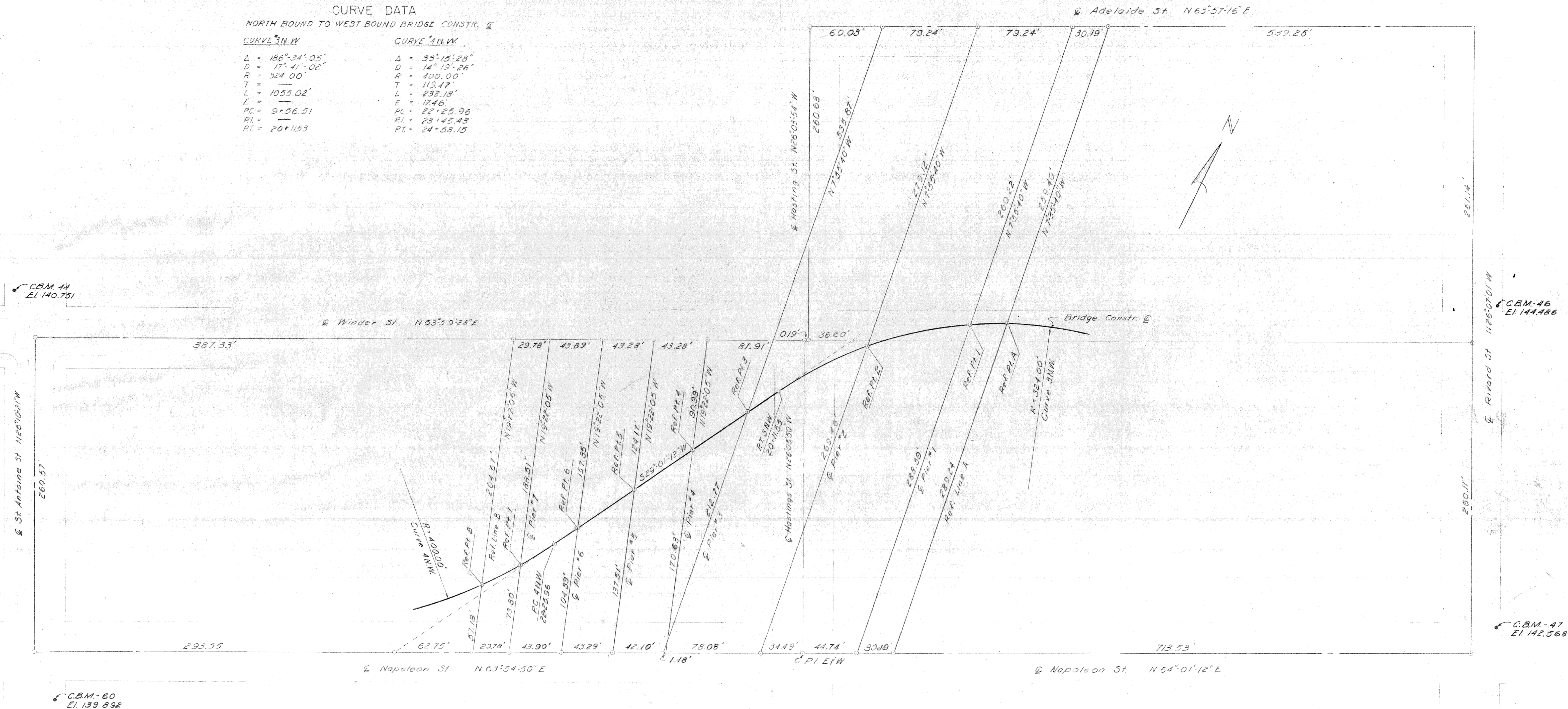
APPROVED: \_\_\_\_\_ COORDINATING ENGINEER  
APPROVED: \_\_\_\_\_ ENGINEER OF DESIGN - CONSULTANTS

B14 OF 82-22-18



**CURVE DATA**  
NORTH BOUND TO WEST BOUND BRIDGE CONSTR. &

CURVE 3N.W	CURVE 4N.W
Δ = 186°-34'-05"	Δ = 33°-15'-28"
D = 17°-41'-02"	D = 14°-19'-26"
R = 324.00'	R = 100.00'
T = 1055.02'	T = 113.17'
E = 9+26.51	E = 17.46'
PC = 20+11.53	PC = 22+25.96
PI = 20+11.53	PI = 23+45.43
PT = 20+11.53	PT = 24+58.15



- Construction Bench Marks
- C.B.M.-44 Arrow on hydrant NW corner St. Antoine and Winder Elev. 140.751
  - C.B.M.-46 Arrow on hydrant NE corner Rivard and Winder Elev. 144.486
  - C.B.M.-47 Arrow on hydrant NE corner Rivard and Napoleon Elev. 142.563
  - C.B.M.-60 Arrow on hydrant SE corner St. Antoine and Napoleon Elev. 139.892
  - P.B.M.39-250 City of Detroit monument NE corner Hastings and Elizabeth Elev. 129.430
  - P.B.M.39-251A City of Detroit monument NW corner Rivard and Wilkins Elev. 140.842
- NOTE**
- o Indicates reference points or points of intersection
  - C.B.M. denotes construction bench mark
  - P.B.M. denotes permanent bench mark

**ALIGNMENT DIAGRAM**  
Not to Scale

Work this sheet with sheet #253

**NOTE:**  
This contract covers the construction of Pier Footings only.

CONTROL SECTION 82251-30202

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

RECOMMENDED FOR APPROVAL *R. R. Hicks* St. Assoc. Eng. - Design.

JOB No.  
**PW897B(2)**

REVISIONS			
NO.	DESCRIPTION	DATE	BY

**MICHIGAN STATE HIGHWAY DEPARTMENT**

CHRYSLER-FISHER INTERCHANGE  
NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**ALIGNMENT DIAGRAM**

CITY OF DETROIT

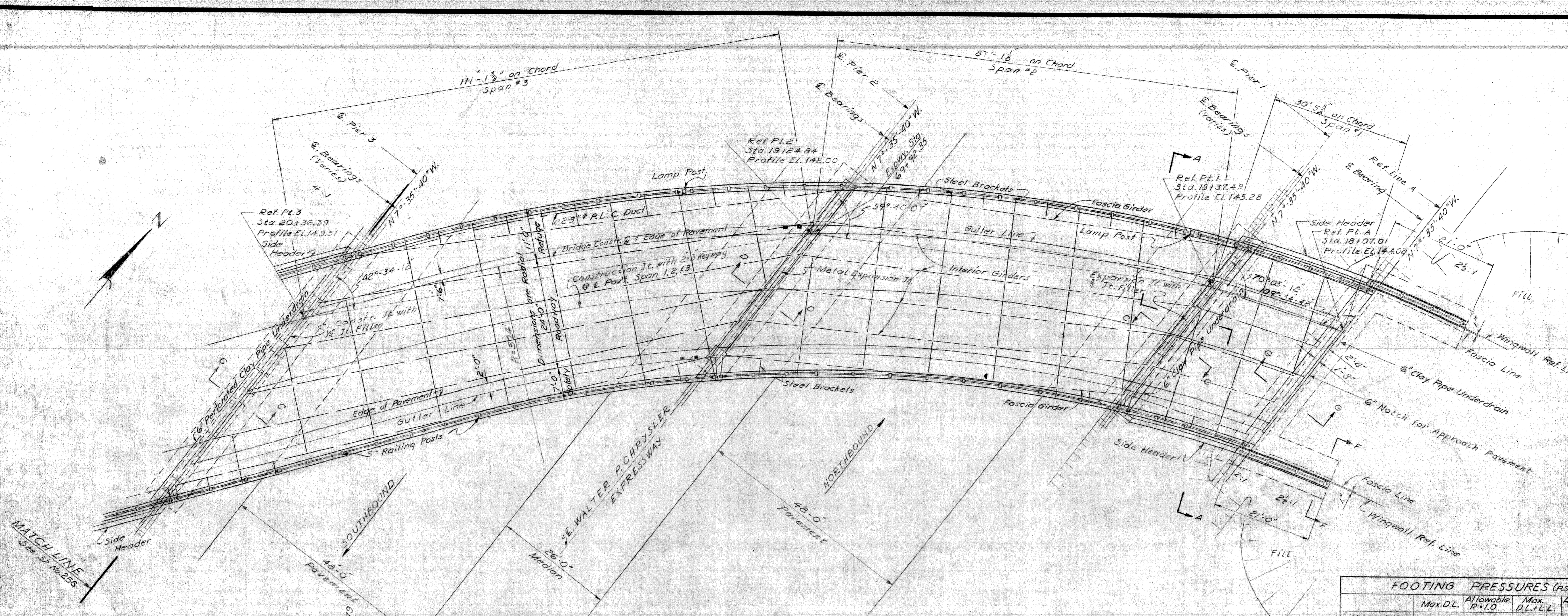
SQUAD BOSS	<i>W. J. ...</i>	9-59
DRAWN BY	<i>EW...</i>	9-59
CHECKED BY	<i>O.G.O.L.</i>	9-59
SHEET 254 of 414		

APPROVED \_\_\_\_\_ COORDINATING ENGINEER

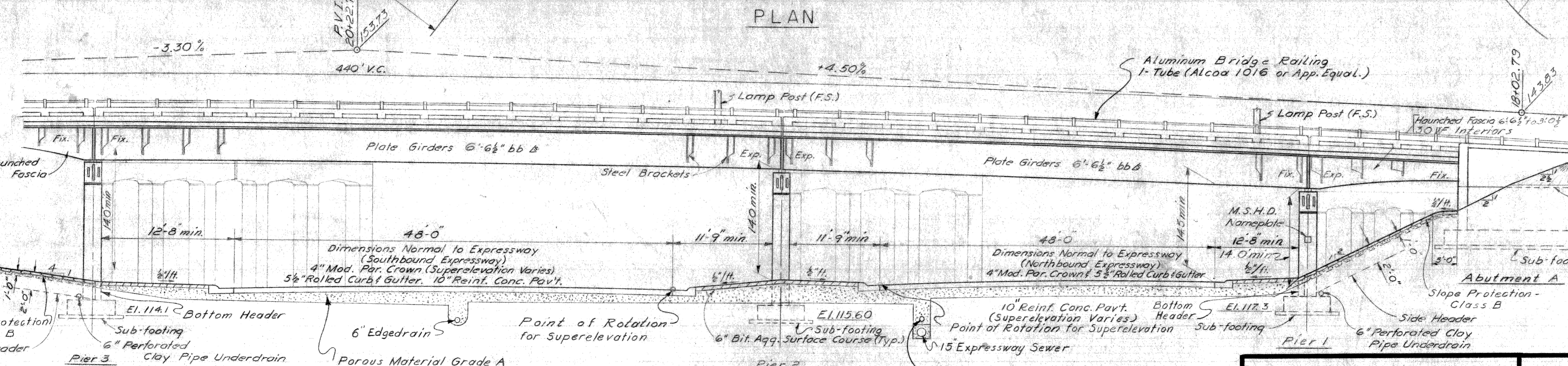
APPROVED \_\_\_\_\_ ENGINEER OF DESIGN - CONSULTANTS

**B14 OF 82-22-18**





FOOTING PRESSURES (P.S.F.)				
	Max. D.L.	Allowable R=1.0	Max. D.L.+L.L.	Allowable R=1.5
Abutments	2630	5700	3320	8400
Piers	3000	3150	3580	4400
Wingwalls	2720	5700	3630	8400



**GENERAL NOTES**

The design of this structure is based on the M.S.H.D. Standard Specifications for the Design of Highway Bridges, 1958 Edition. (H20-516-44 and Alternate Military Loading.)  
 Live Load + Impact Deflection = 1/1000 of Span Length.

Notes - This contract covers the construction of Pier Footings only.

Work this sheet with sheets "250" & "257"  
 CONTROL SECTION 82251-30202

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

RECOMMENDED FOR APPROVAL: *[Signature]*  
 Sr. Assoc. Engr. - Design

JOB No. PW897B(2)

NO.	REVISIONS DESCRIPTION	DATE	BY

**MICHIGAN STATE HIGHWAY DEPARTMENT**

CHRYSLER-FISHER INTERCHANGE  
 NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
 WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**GENERAL PLAN OF STRUCTURE**

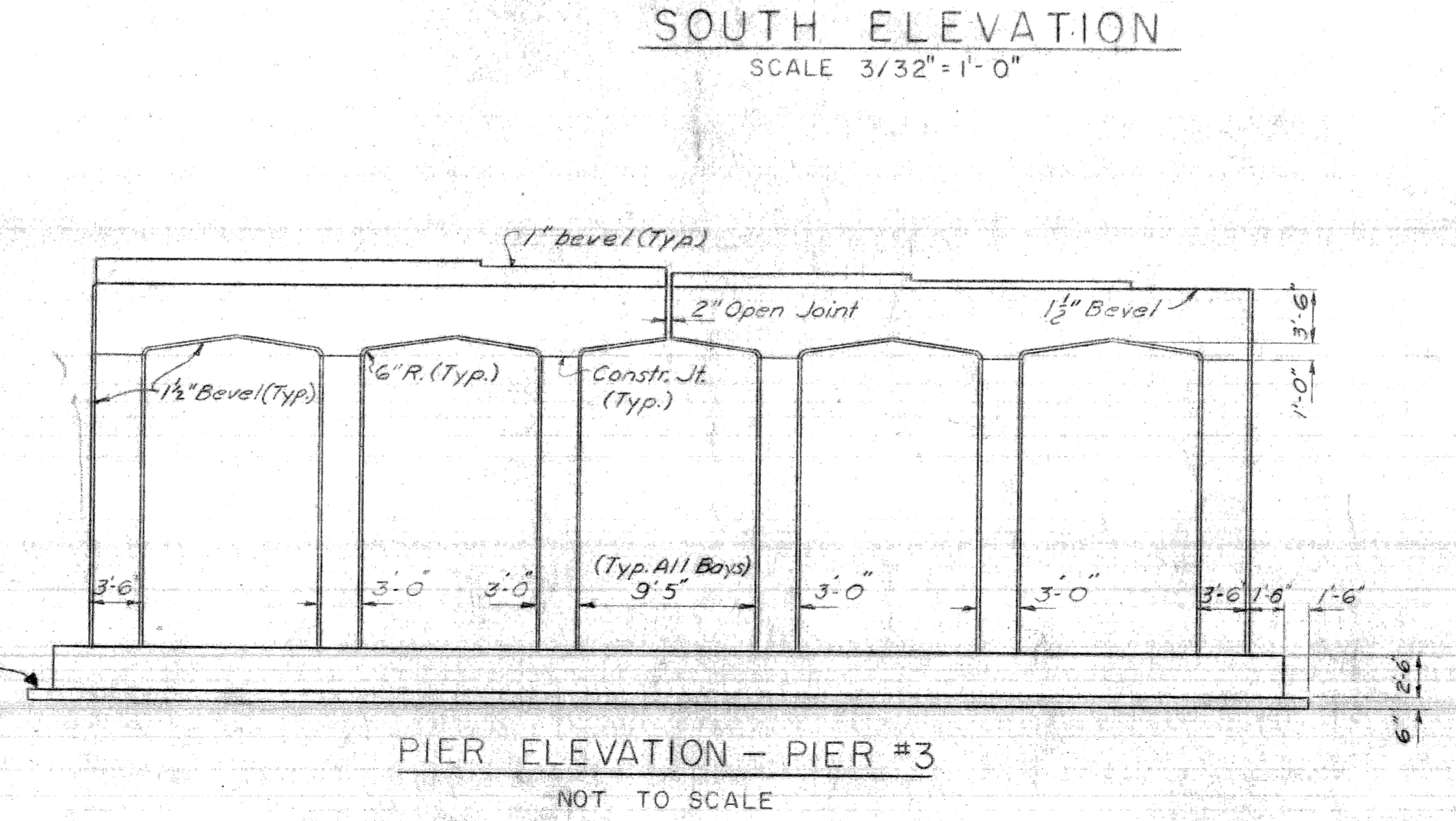
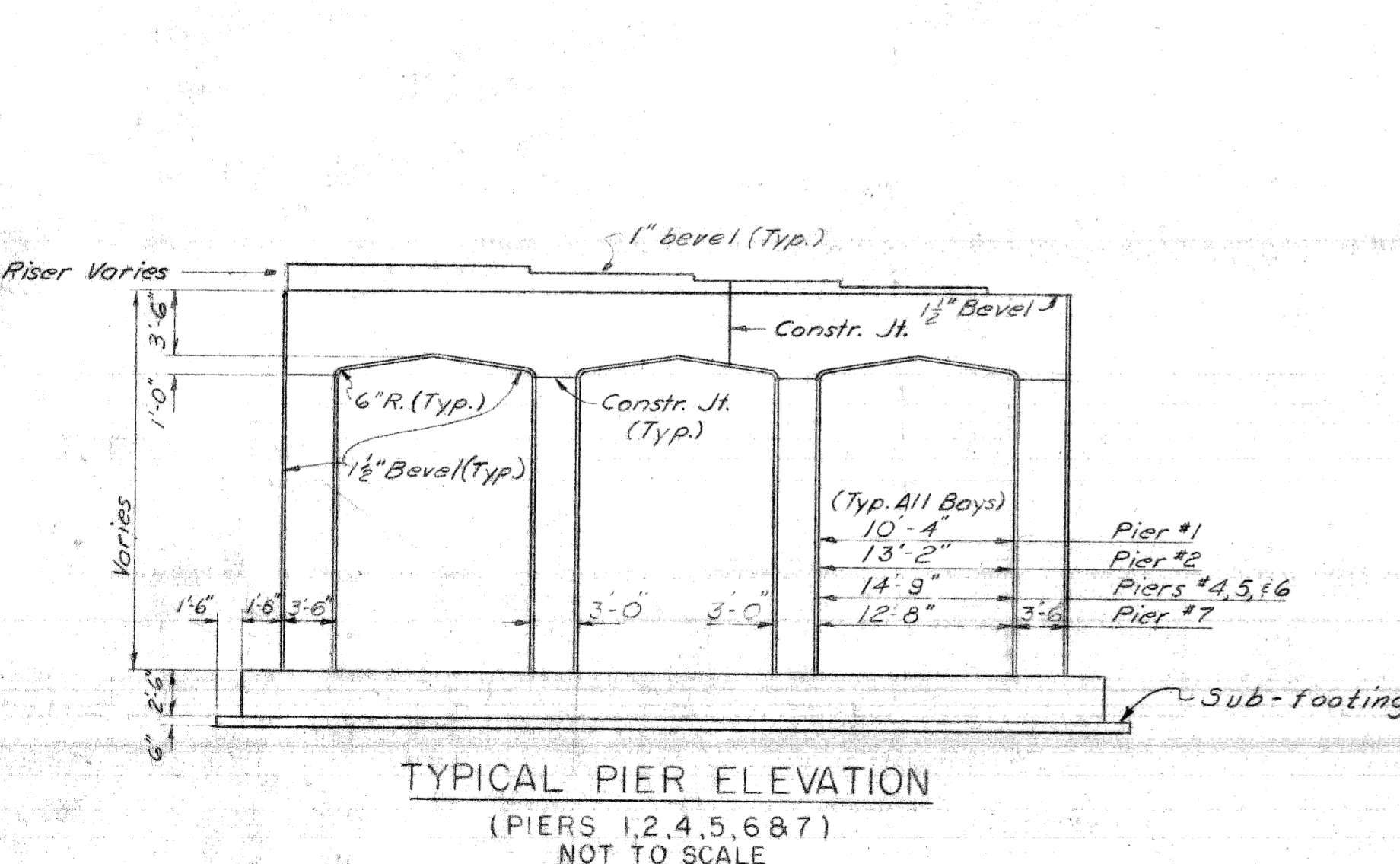
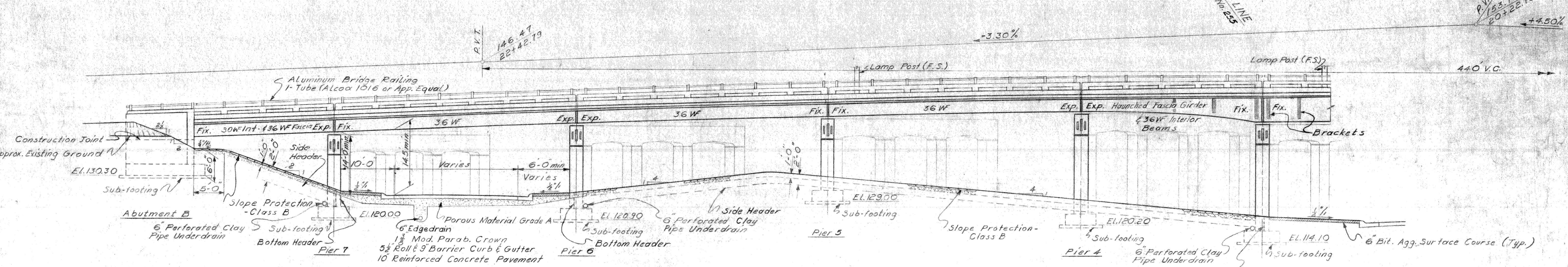
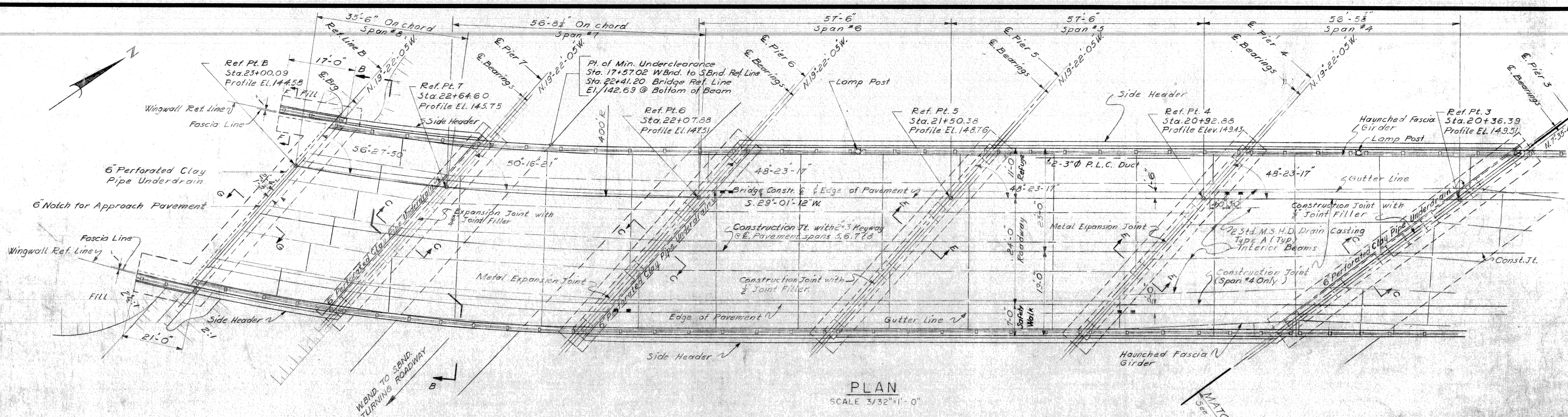
CITY OF DETROIT  
 SERIAL NOSS: *[Signature]*  
 DRAWN BY: *[Signature]*  
 TRACED BY: *[Signature]*  
 CHECKED BY: *[Signature]*

APPROVED: \_\_\_\_\_  
 COORDINATING ENGINEER

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

**B14 OF 82-22-18**





**NOTE:** This contract covers the construction of Pier Footings.

Work this sheet with sheets "255" & "257"

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

RECOMMENDED FOR APPROVAL: *R. H. Kieck*  
Sr. Assoc. Engr. - Design

JOB No. PW897B(2)

REVISIONS			
NO.	DESCRIPTION	DATE	BY

**MICHIGAN STATE HIGHWAY DEPARTMENT**

CONTROL SECTION 82251-30202

CHRYSLER-FISHER INTERCHANGE  
NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**GENERAL PLAN OF STRUCTURE**

CITY OF DETROIT

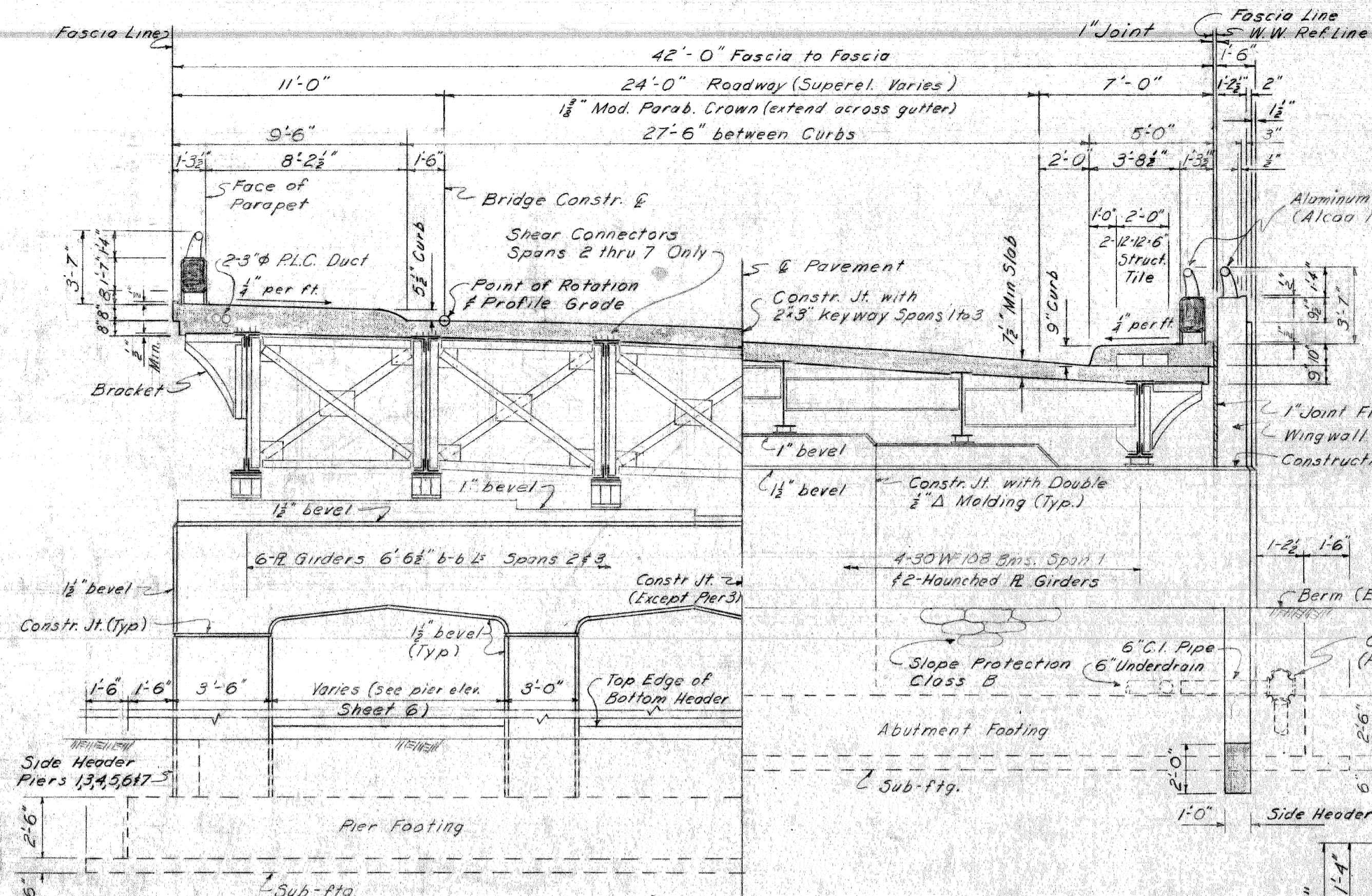
APPROVED: \_\_\_\_\_  
COORDINATING ENGINEER

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

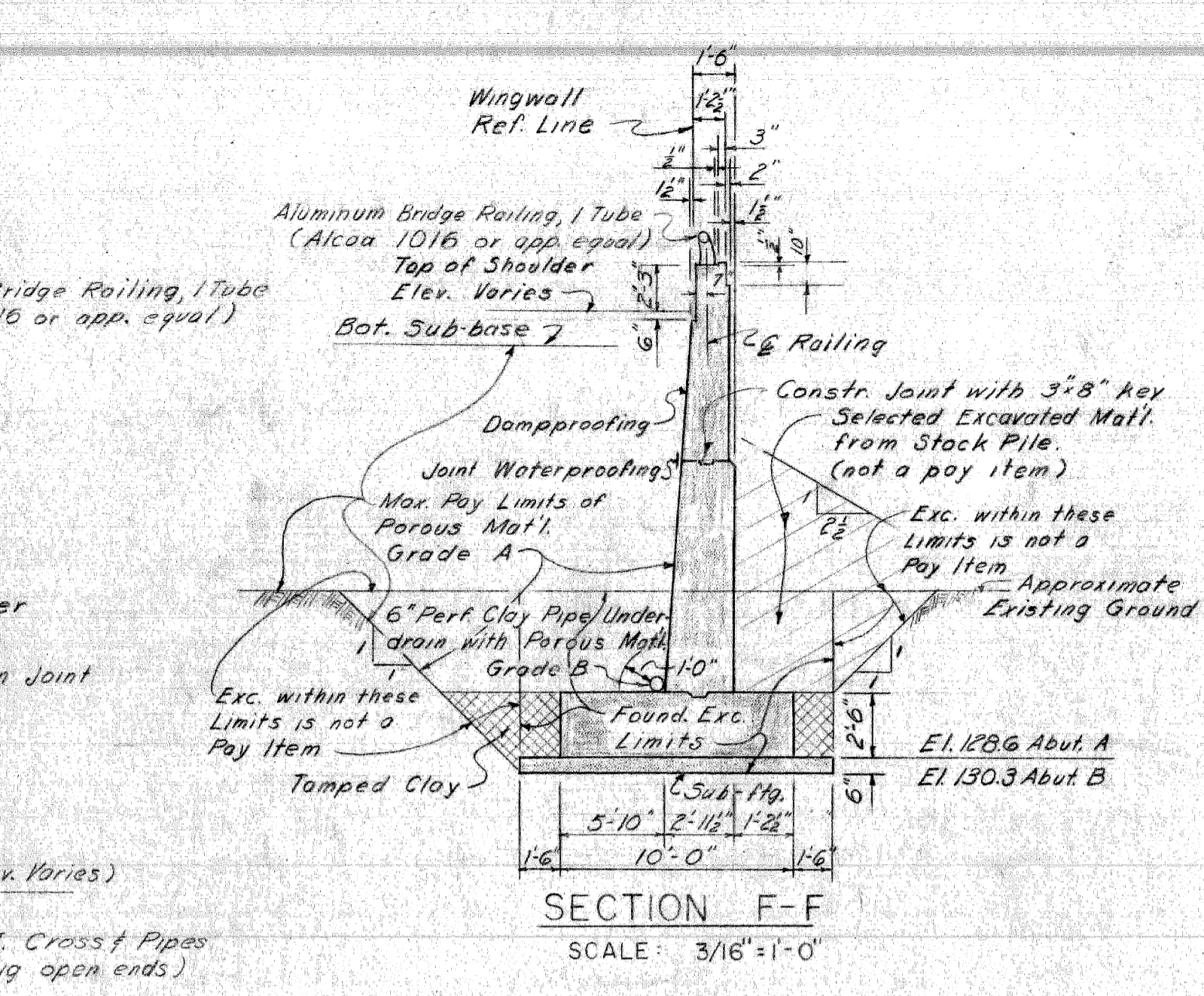
SHEET 256 OF 414

**B14 OF 82-22-18**

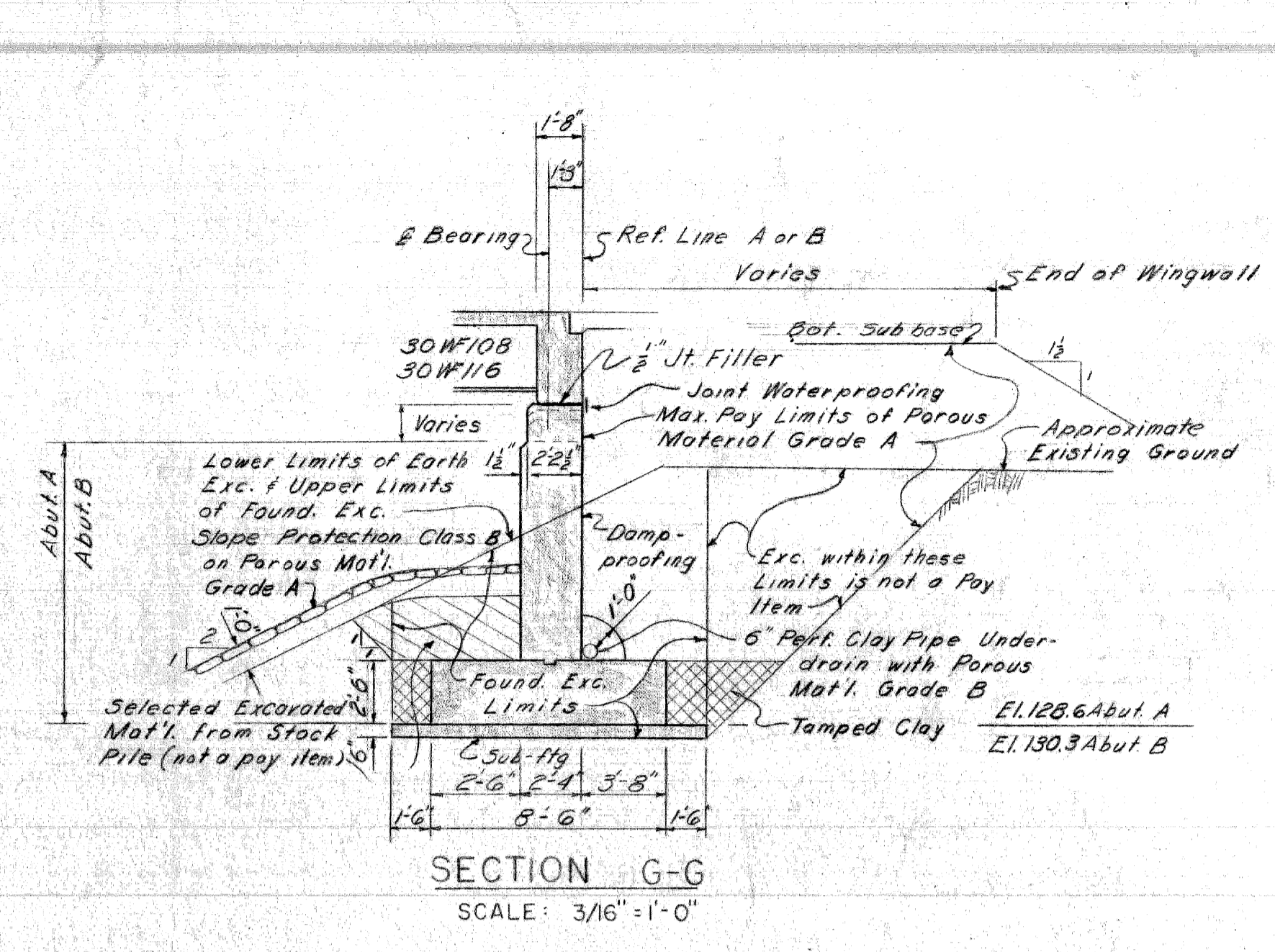




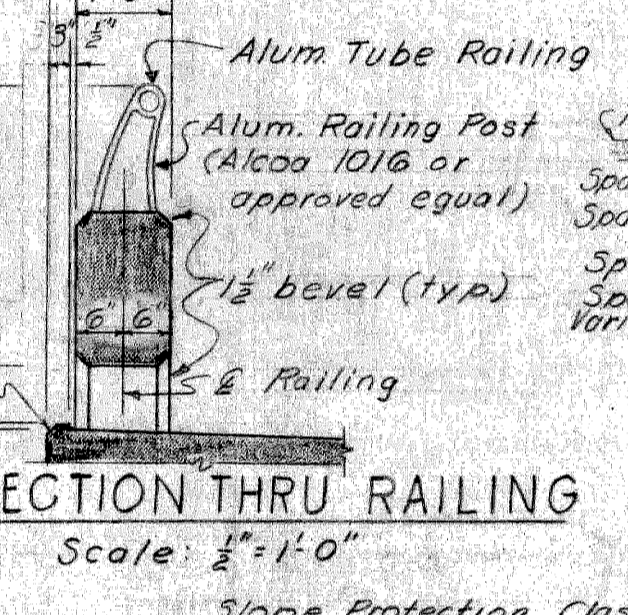
SECTION A-A  
SCALE: 1/4" = 1'-0"



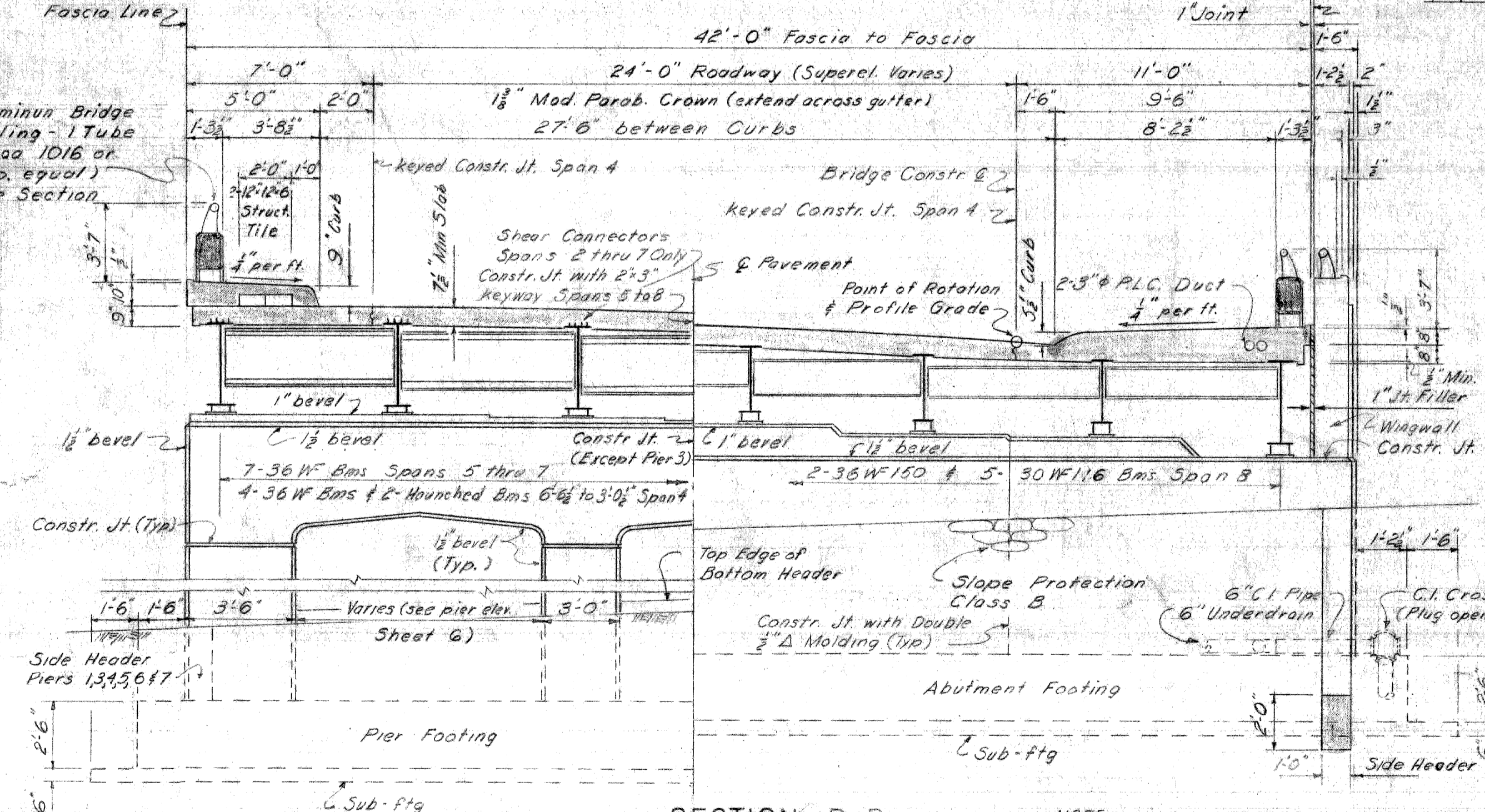
SECTION F-F  
SCALE: 3/16" = 1'-0"



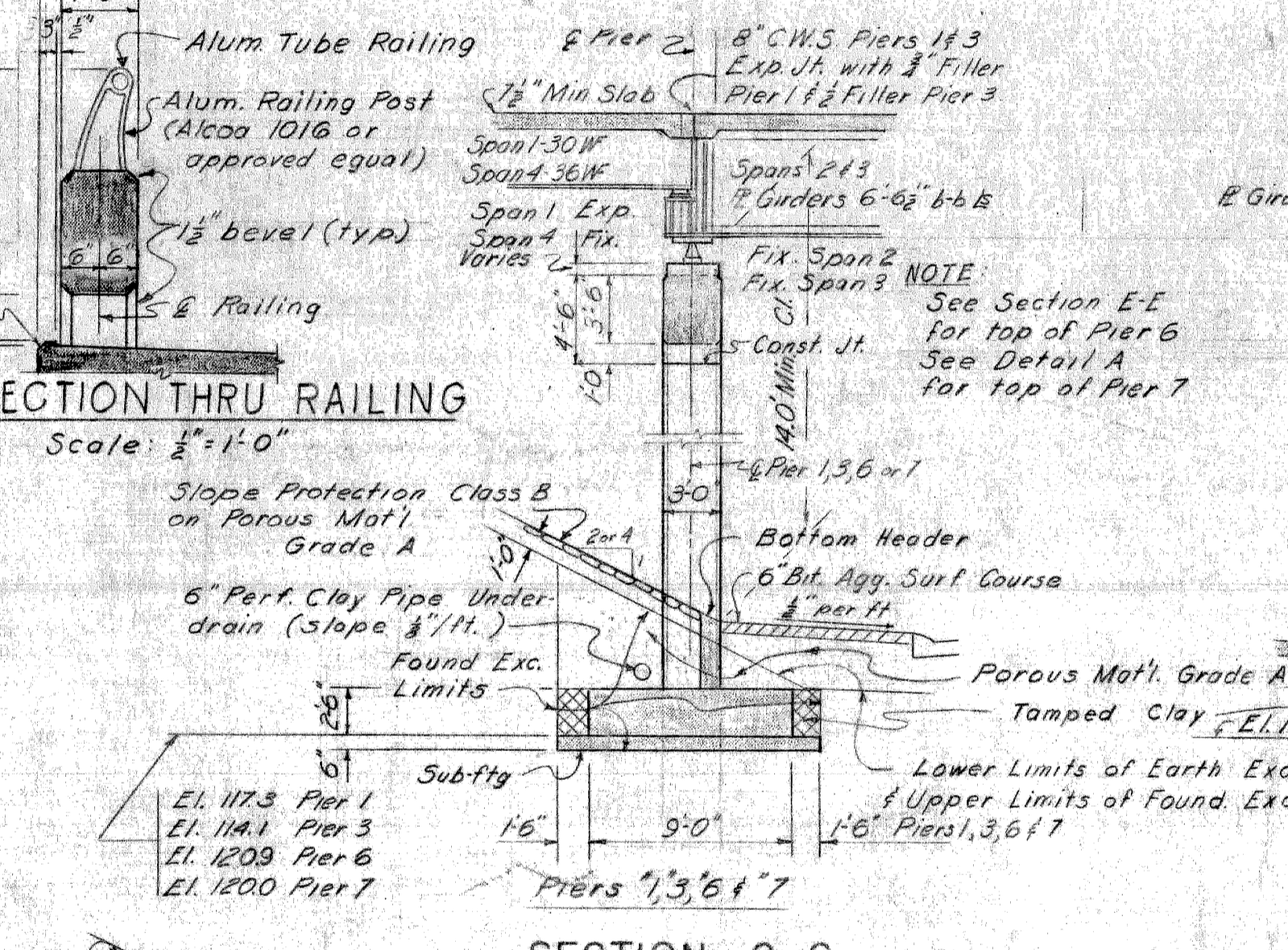
SECTION G-G  
SCALE: 3/16" = 1'-0"



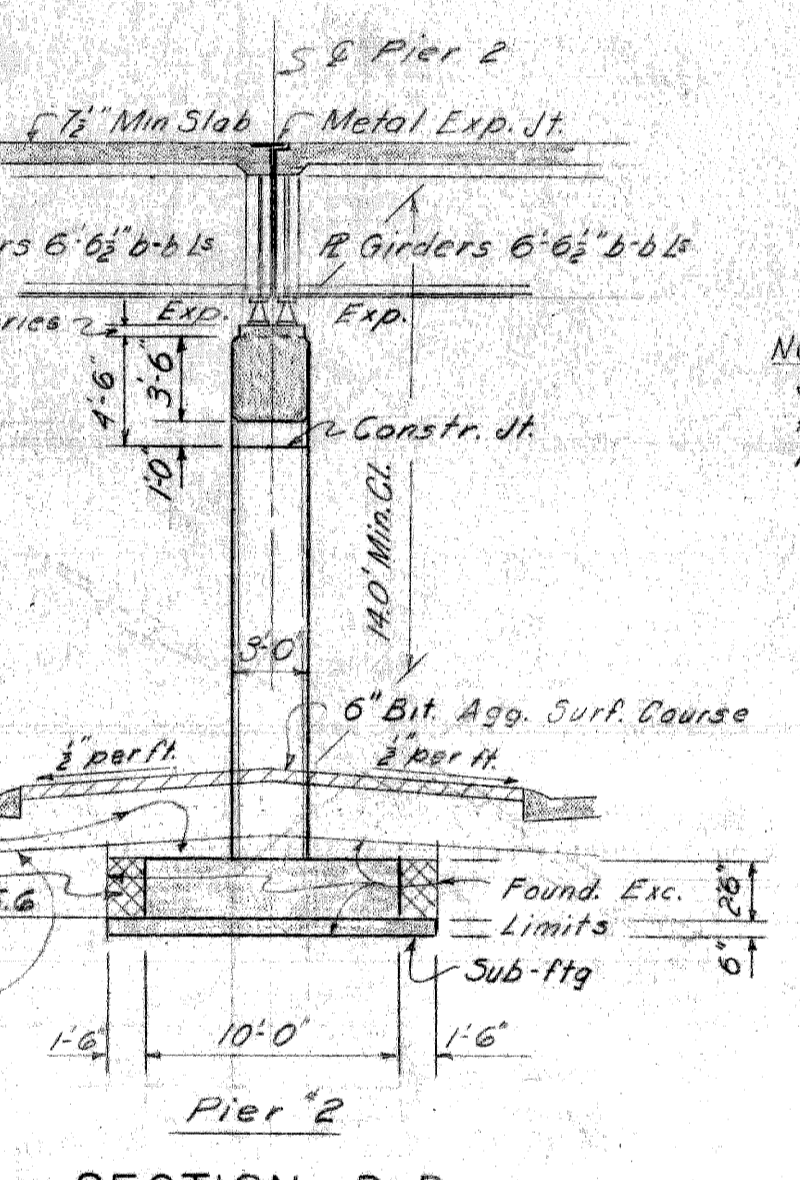
SECTION THRU RAILING  
SCALE: 1/2" = 1'-0"



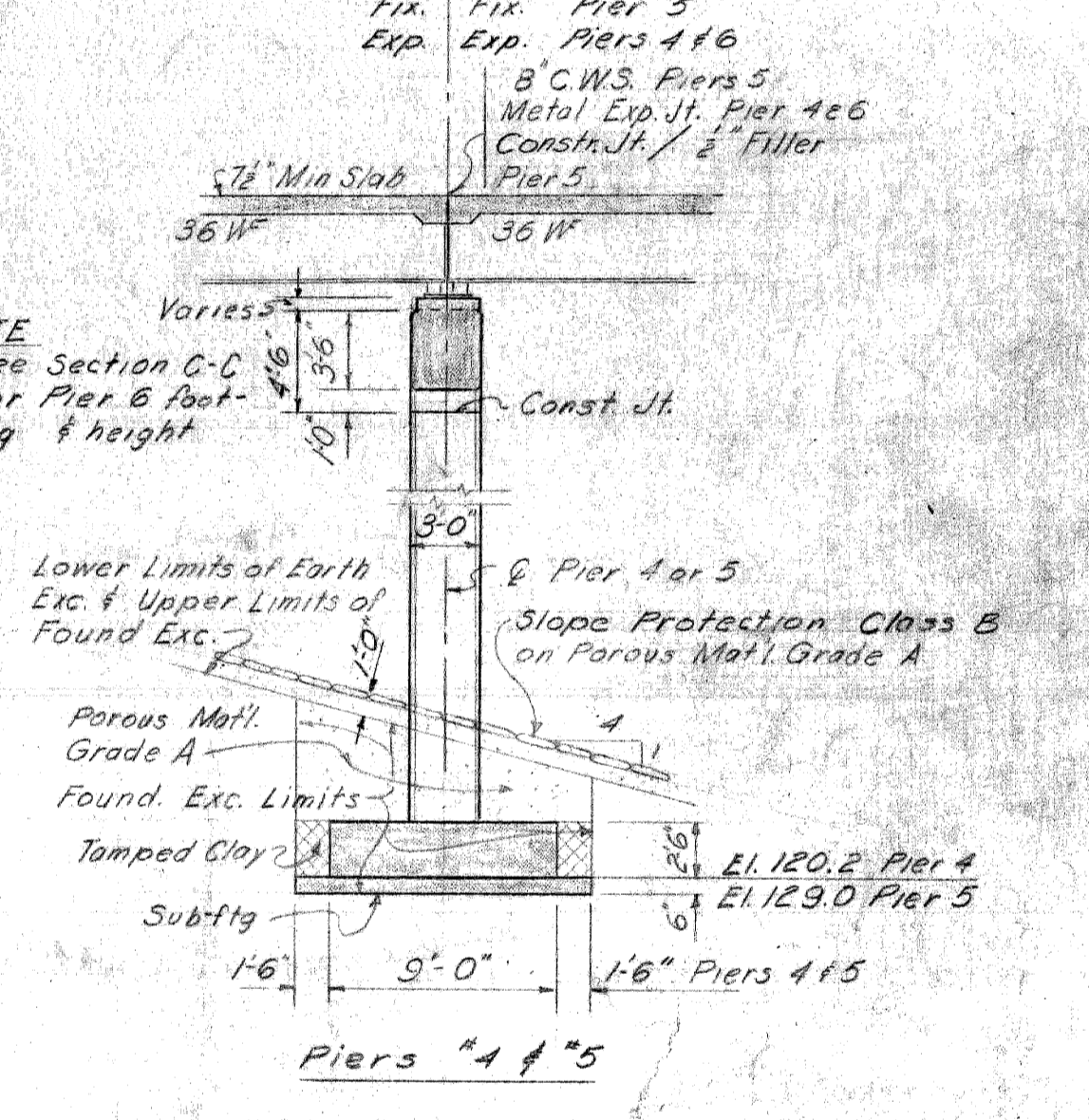
SECTION B-B  
SCALE: 1/4" = 1'-0"



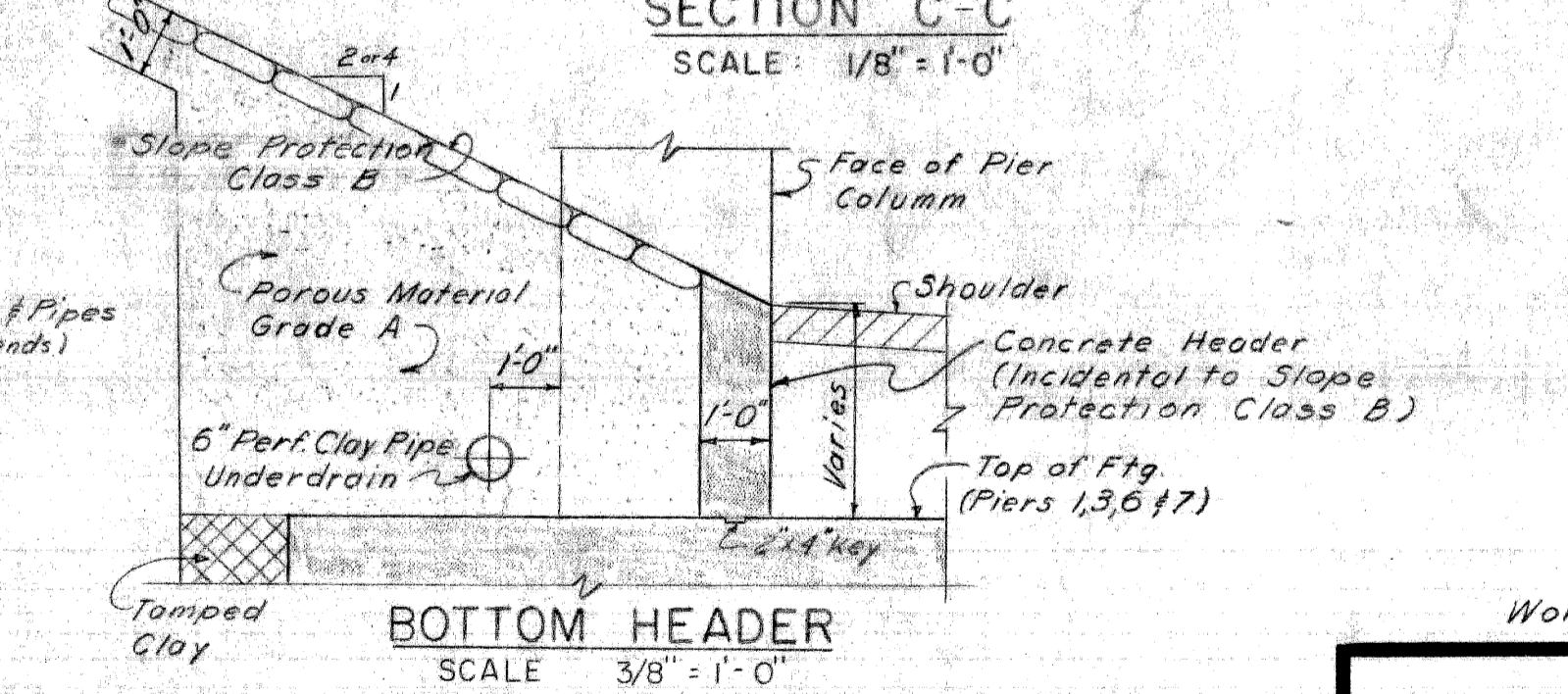
SECTION C-C  
SCALE: 1/8" = 1'-0"



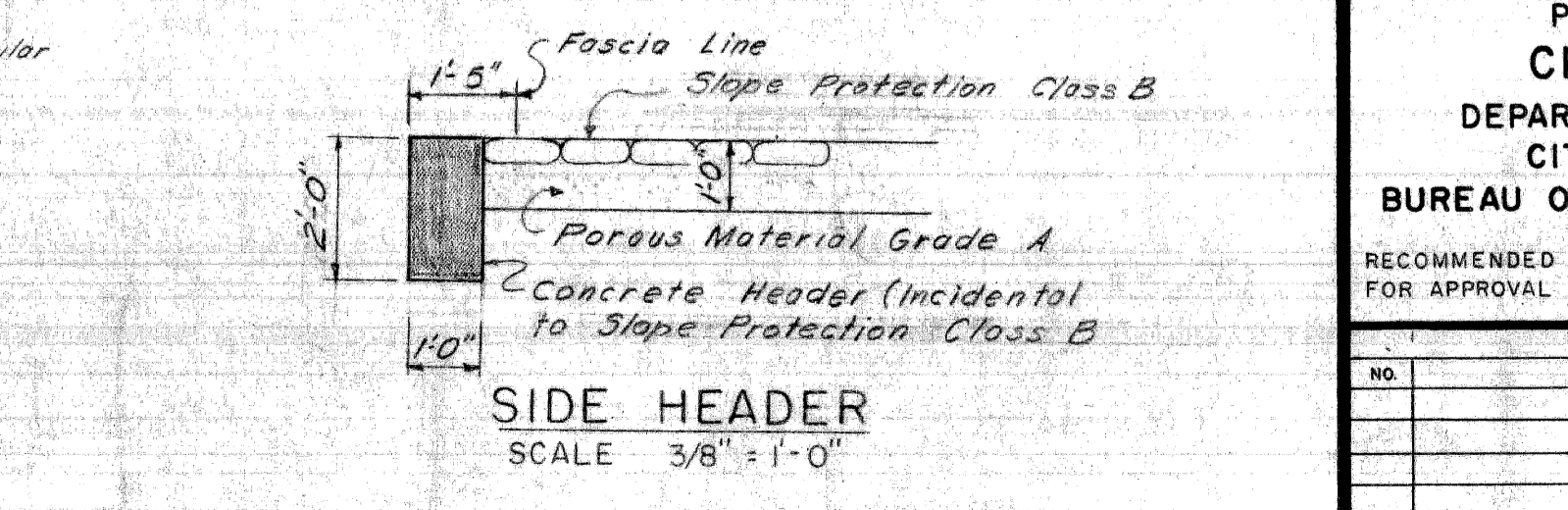
SECTION D-D  
SCALE: 1/8" = 1'-0"



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



BOTTOM HEADER  
SCALE: 3/8" = 1'-0"



SIDE HEADER  
SCALE: 3/8" = 1'-0"

NOTE: Bearings for fascia beams of Piers 1 & 8 are some as shown in Section D-D. Bearings for fascia beams at Pier 7 are some as shown in Section E-E. This contract covers the construction of Pier Footings only.

Work this sheet with sheets 255 & 256

CONTROL SECTION 82251-30202

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

RECOMMENDED FOR APPROVAL: *A. H. Hickey*  
Sr. Assoc. Engr. - Design

JOB No. PW897B(2)

NO.	REVISIONS	DATE	BY

MICHIGAN STATE HIGHWAY DEPARTMENT

CHRYSLER-FISHER INTERCHANGE  
NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

GENERAL PLAN OF STRUCTURE

CITY OF DETROIT  
SQUAD BOSS: *A. Leckner* 9-59  
DRAWN BY: *F. Waite* 9-59  
CHECKED BY: *G. D. I.* 9-59  
SHEET 257 OF 414

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

B14 OF 82-22-18

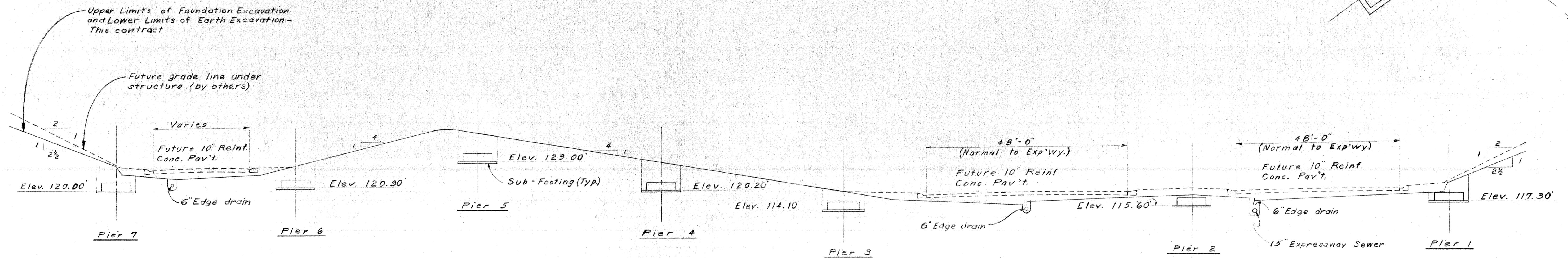
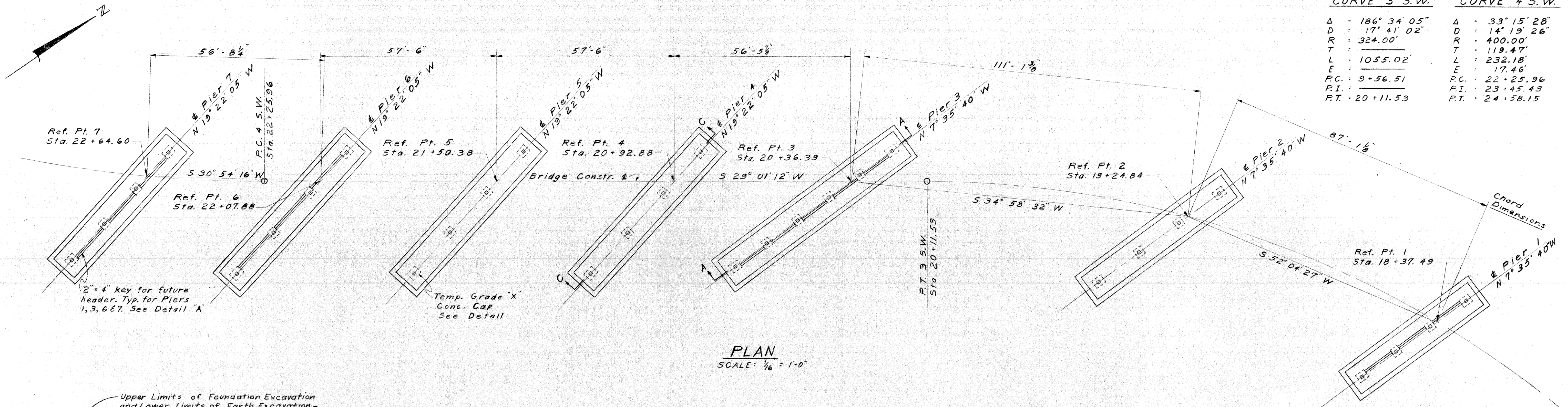






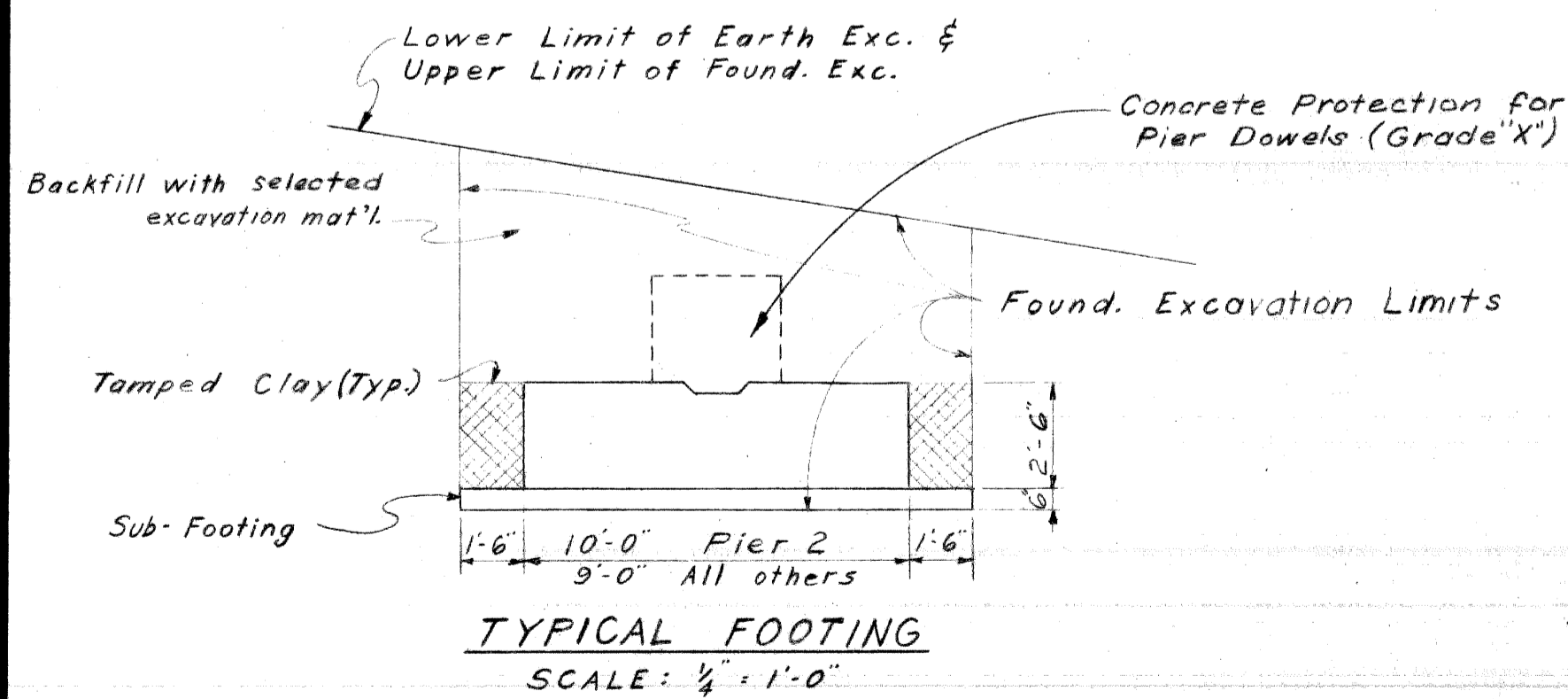
**CURVE DATA**

N. BOUND TO W. BOUND BRIDGE CONSTR. & CURVE 3 S.W.		CURVE 4 S.W.	
Δ	186° 34' 05"	Δ	33° 15' 28"
D	17' 41' 02"	D	14' 19' 26"
R	324.00'	R	400.00'
L	1055.02'	L	119.47'
E	9+56.51	E	17.46'
P.C.	20+11.53	P.C.	22+25.96
P.I.		P.I.	23+45.43
P.T.		P.T.	24+58.15



**Note:**  
The indicated slopes are normal to Roadway Shoulder line.

**PROFILE ON BRIDGE CONSTRUCTION &**  
SCALE: 1/8" = 1'-0"



**NOTE:**  
This contract covers the construction of Pier Footings only.

Work this sheet with Sheet No. 260.  
CONTROL SECTION 82251-30202

**MICHIGAN STATE HIGHWAY DEPARTMENT**

CHRYSLER - FISHER INTERCHANGE  
NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**FOOTING PLAN - PIERS**

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

RECOMMENDED FOR APPROVAL  
*D. P. Hicks*  
Dr. Assoc. Eng. - Design

JOB No.  
PW 897B(2)

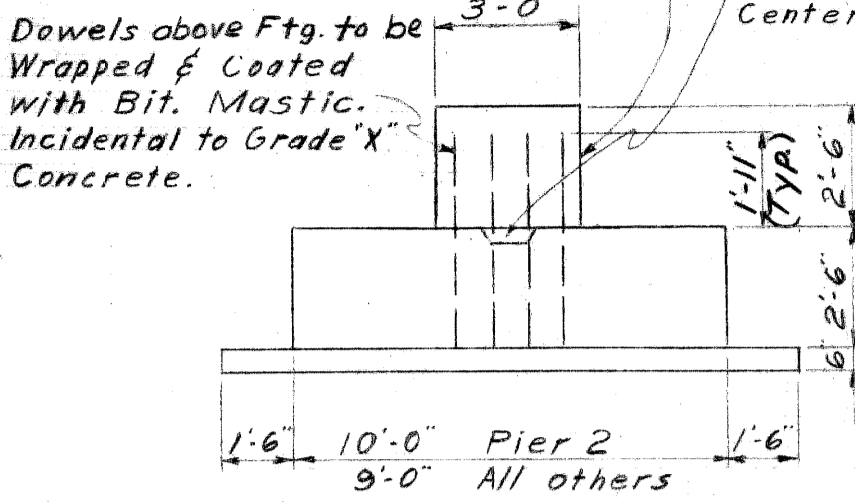
REVISIONS			
NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT	
SQUAD BOSS	J. J. ... 2-60
DRAWN BY	J. B. W. 12-59
TRACED BY	J. B. W. 12-59
CHECKED BY	O. G. T. M. 2-60
SHEET 259 OF 414	

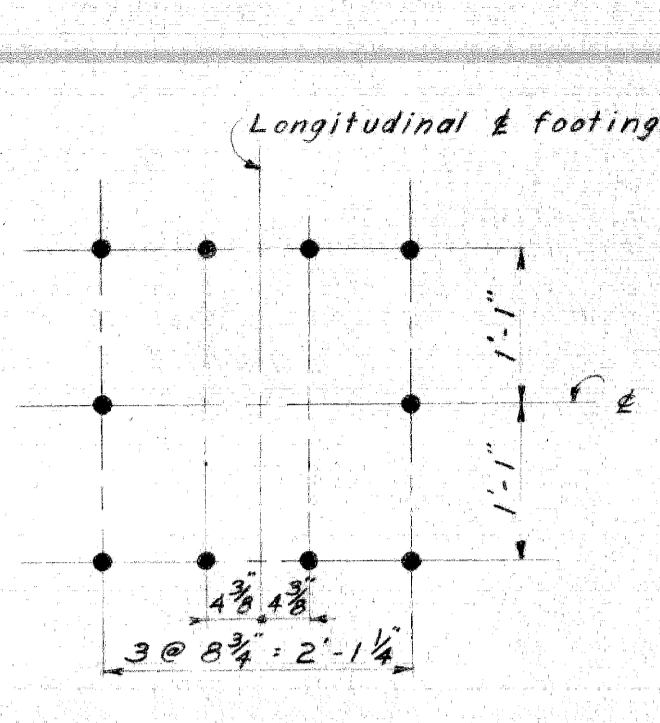
**B14 of 82-22-18**



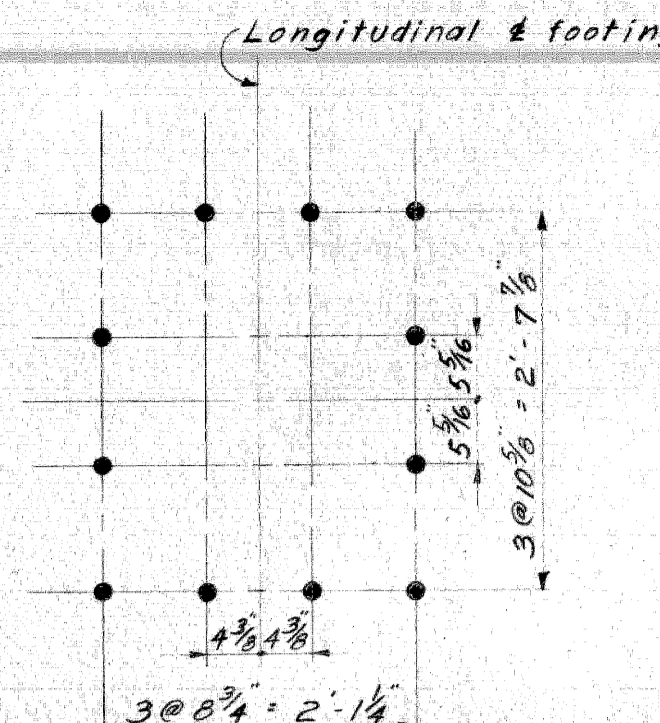
Temp. Grade "X" Conc. Cap  
 3'-0" x 3'-0" x 2'-6" Int. Col's.  
 3'-6" x 3'-0" x 2'-6" Ext. Col's.



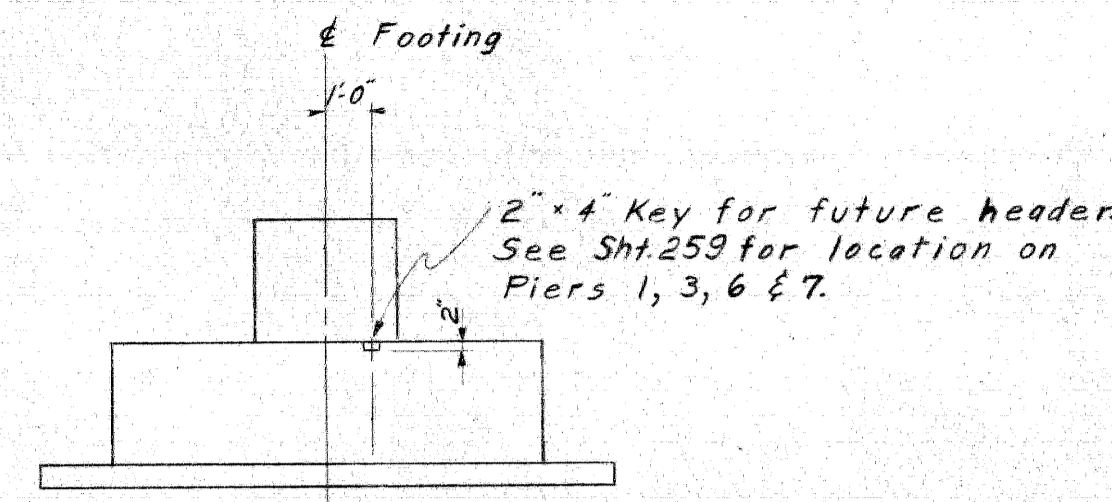
DOWEL CAP FOR FUTURE PIER



DOWEL DETAIL - INTERIOR COL'S.  
 NO SCALE



DOWEL DETAIL - EXTERIOR COL'S.  
 NO SCALE

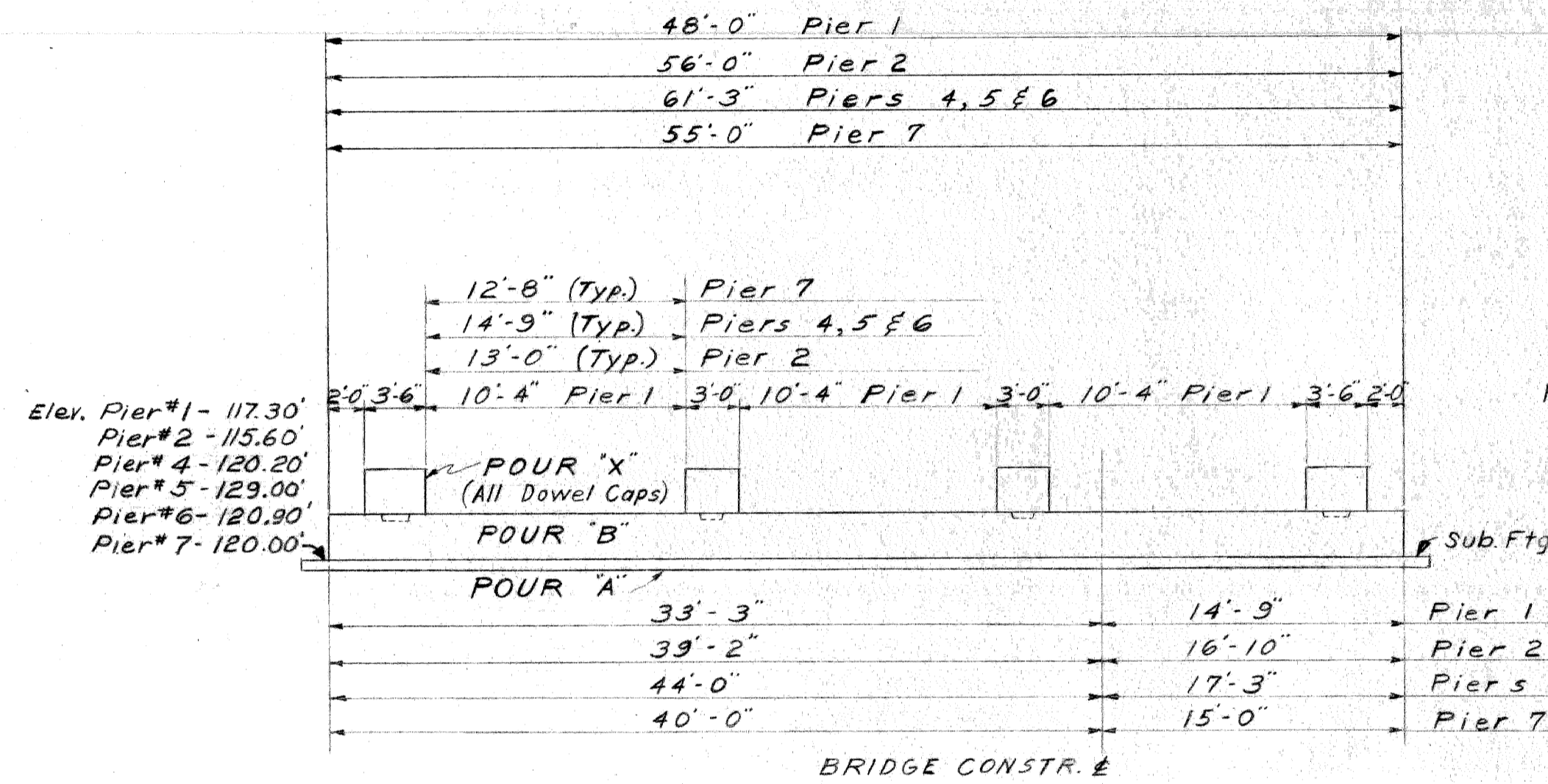


DETAIL A  
 SCALE: 1/4" = 1'-0"

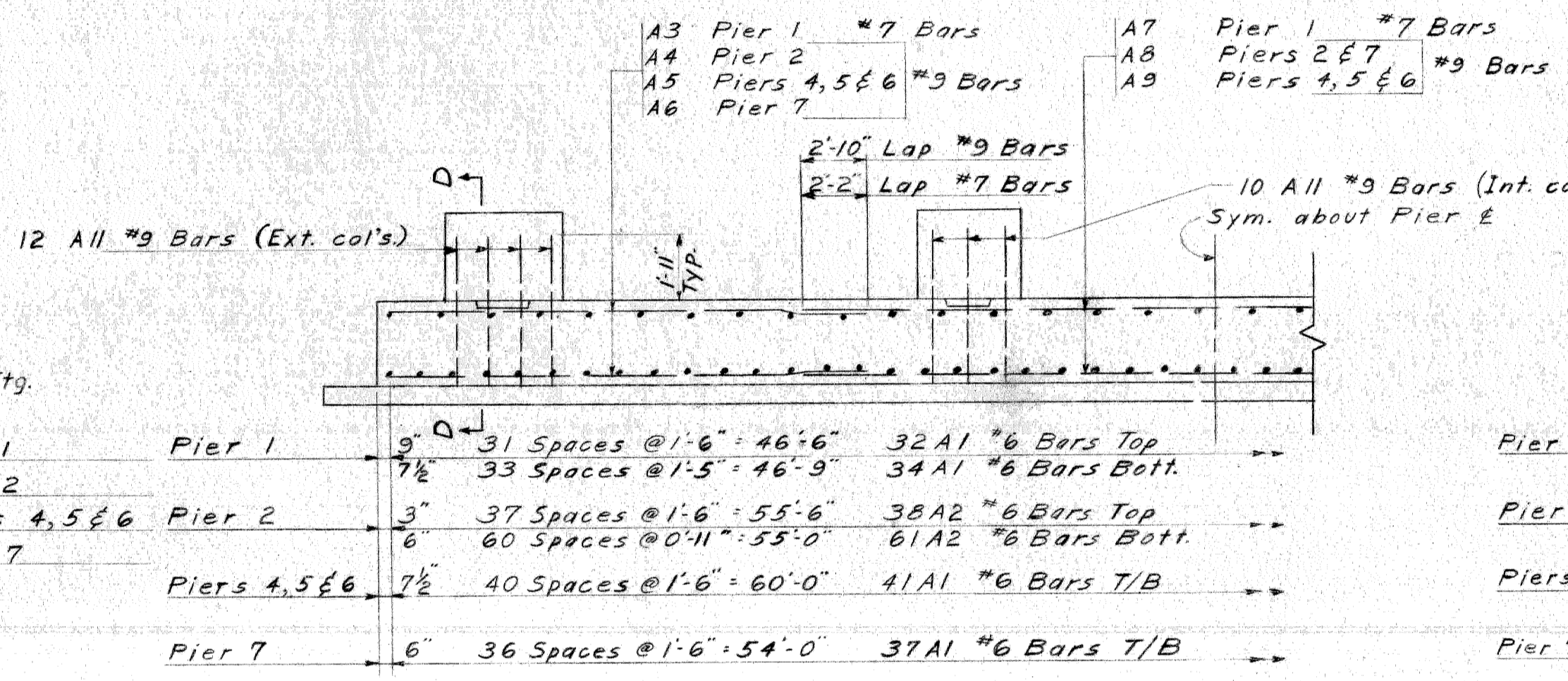
CONCRETE QUANTITIES										
POUR	LOCATION	PIER 1	PIER 2	PIER 3	PIER 4	PIER 5	PIER 6	PIER 7		
A	Subfooting	11.6	14.2	16.4	14.5	14.5	14.5	13.0		
B	Footing	40.4	51.8	58.6	51.5	51.5	51.5	46.0		
X	Dowel Caps	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
TOTAL CU. YDS.		52.0	66.0	75.0	66.0	66.0	66.0	59.0	4.0	
Total Concrete Quantities		Grade A6A 450.0 CYDS.					Grade X 30.0 CYDS.			

Unclassified Excavation 1419 CYDS.

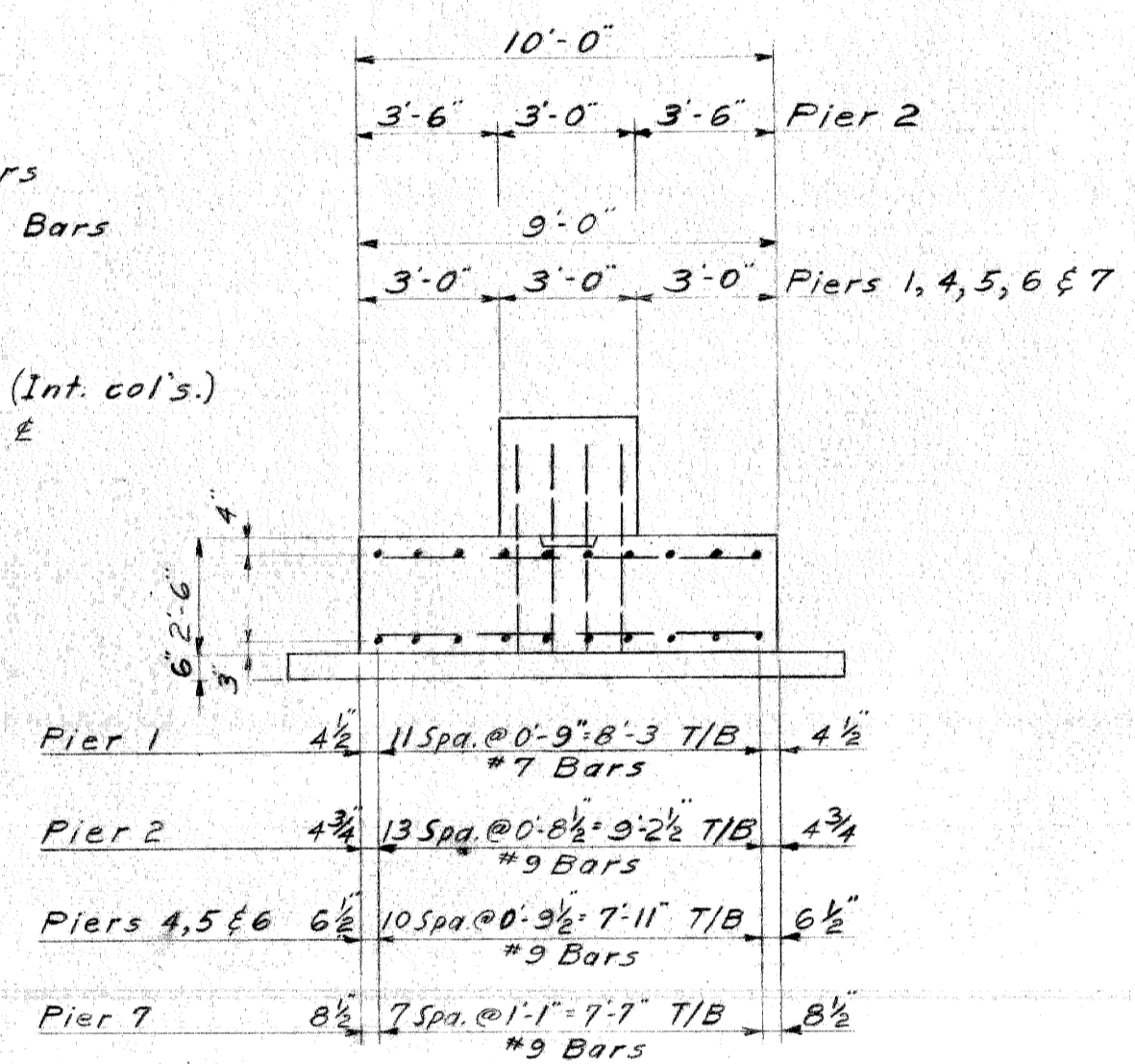
This design is based on a maximum foundation pressure of 3000psf under D.L. only and a maximum foundation pressure of 3580 psf under D.L. + L.L. Maximum allowable foundation pressure with R=1.0 is 3130 psf and 4400 psf with R=1.5.



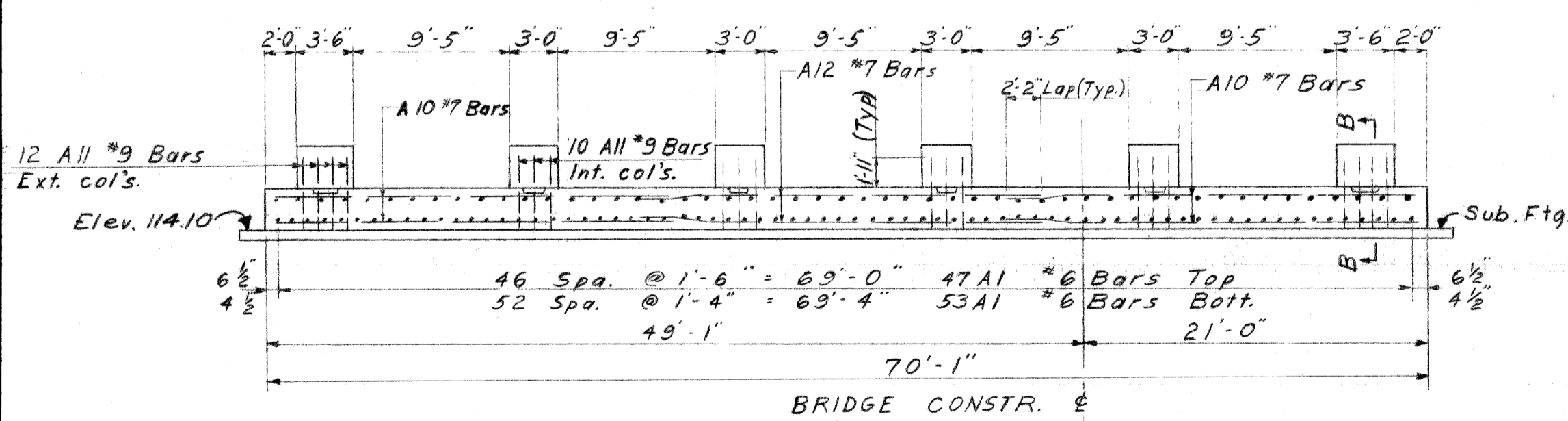
FOOTING ELEVATION -- PIERS 1, 2, 4, 5, 6 & 7



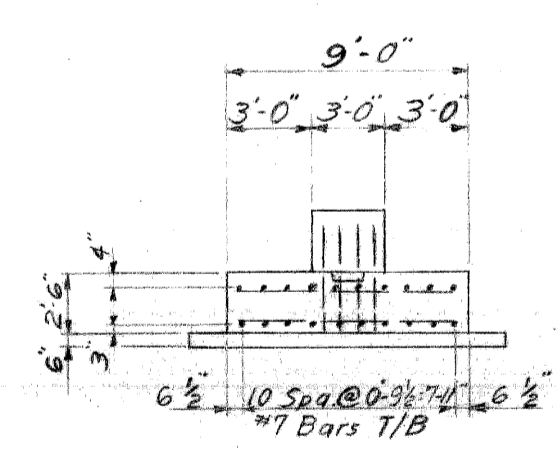
SECTION C-C PIERS 1, 2, 4, 5, 6 & 7



SECTION D-D



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



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

NOTE: This contract covers the construction of Pier Footings only.

Work this sheet with Sheet No. 259.  
 CONTROL SECTION 82251-30202

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

MICHIGAN STATE HIGHWAY DEPARTMENT

CHRYSLER-FISHER INTERCHANGE  
 NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
 WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

FOOTING DETAILS - PIERS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

RECOMMENDED FOR APPROVAL: *H. R. Hicks*  
 St. Assoc. Engrs.-Design.

JOB No. PW 897B(2)

CITY OF DETROIT	
SQUAD BOSS	<i>J. L. ...</i>
DRAWN BY	<i>J. B. W. 12-59</i>
TRACED BY	<i>J. B. W. 12-59</i>
CHECKED BY	<i>O. E. ... 2-60</i>
SHEET 260 OF 417	

B14 of 82-22-18

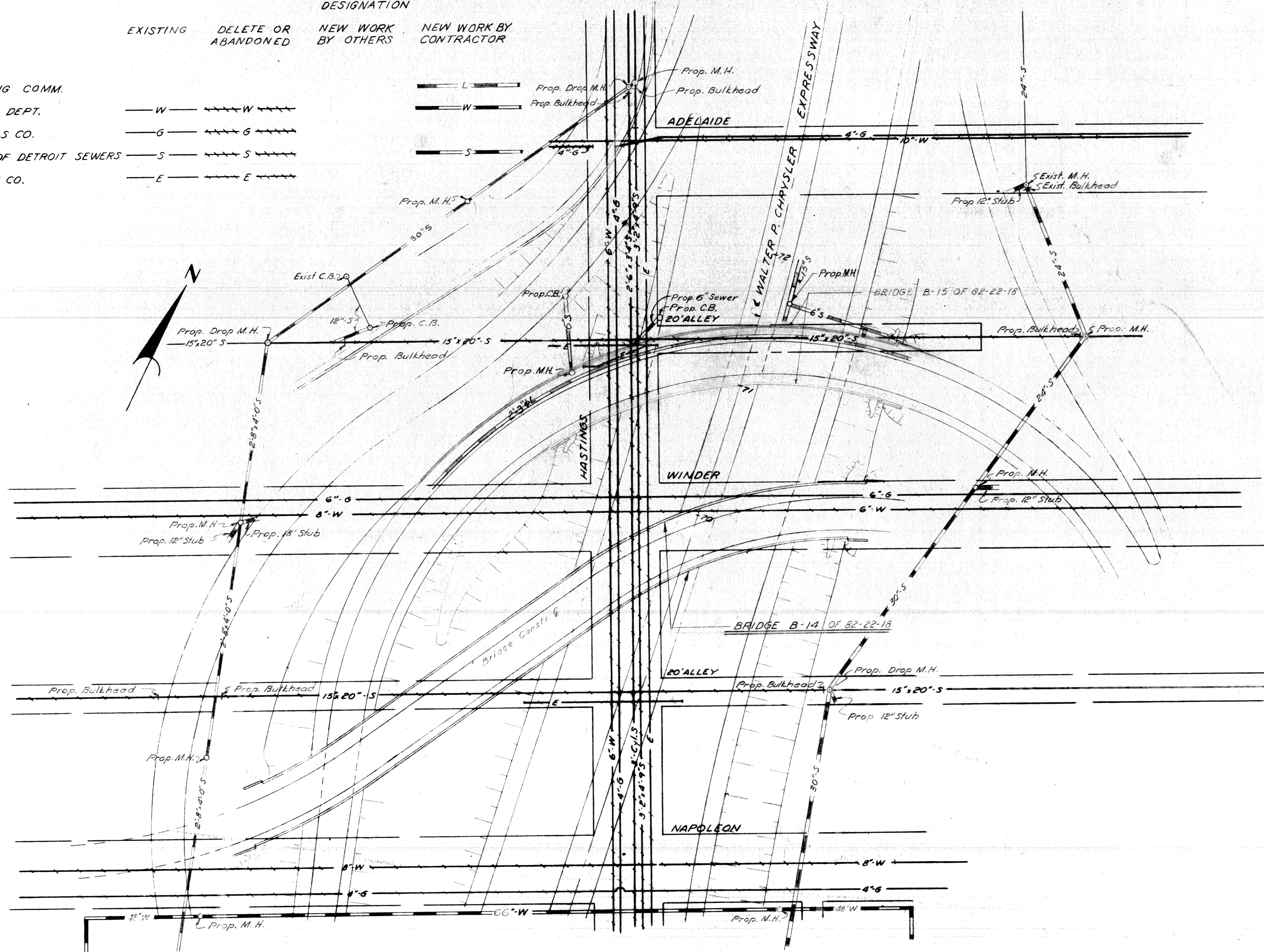






**LEGEND**

UTILITY	EXISTING	DELETE OR ABANDONED	DESIGNATION	NEW WORK BY OTHERS	NEW WORK BY CONTRACTOR
PUBLIC LIGHTING COMM.	—	---	NEW WORK BY OTHERS	---	---
DETROIT WATER DEPT.	—W—	---W---	NEW WORK BY OTHERS	---	---
MICH. CONS. GAS CO.	—G—	---G---	NEW WORK BY OTHERS	---	---
EXPWY & CITY OF DETROIT SEWERS	—S—	---S---	NEW WORK BY OTHERS	---	---
DETROIT EDISON CO.	—E—	---E---	NEW WORK BY OTHERS	---	---



**SITUATION PLAN**  
SCALE: 1" = 40'

Bridge Pier footings and utility alterations are included in package contract for Control Section 82251-30202

**NOTE** This contract covers the construction of Pier Footings only.

**CONTROL SECTION 82251-30202**

**MICHIGAN STATE HIGHWAY DEPARTMENT**

**CHRYSLER-FISHER INTERCHANGE**  
NORTHBOUND TO WEST BND. TURNING ROADWAY CROSSING THE WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**EXISTING UTILITIES AND PROPOSED ALTERATIONS**

CITY OF DETROIT

DESIGNED BY	C. Lederer	9/50
DRAWN BY	R. Brown	2/52
CHECKED BY	T.M. Carr	3/52
DATE	262	4-14

**REVISIONS**

NO.	DESCRIPTION	DATE	BY

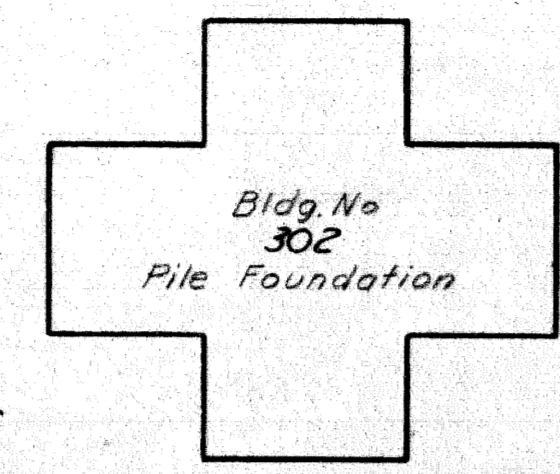
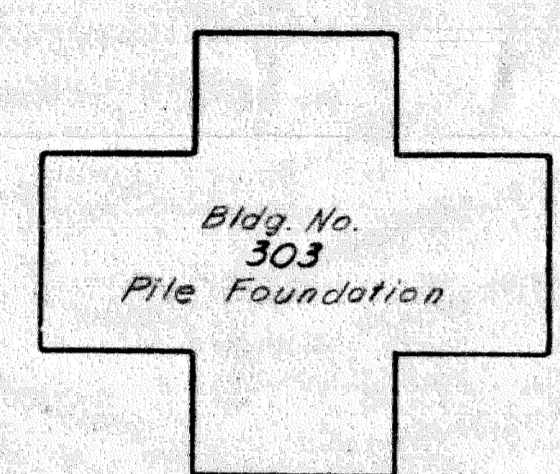
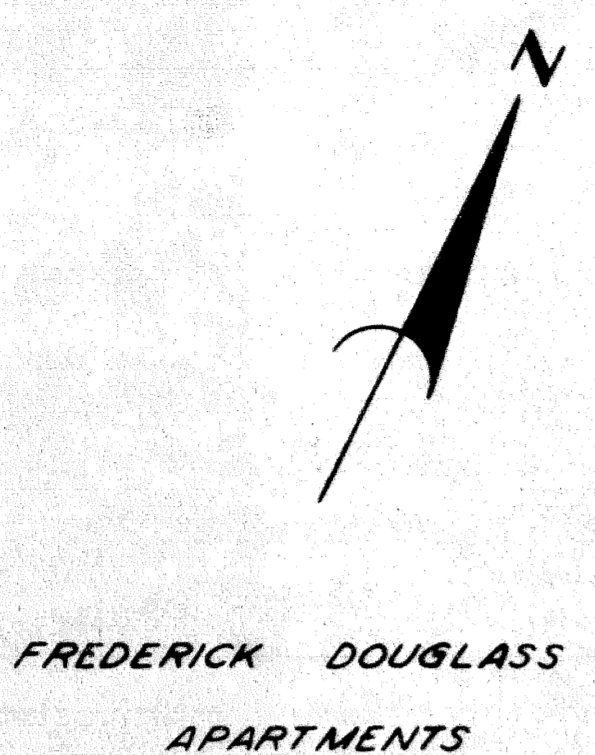
**B14 OF 82-22-18**

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

RECOMMENDED FOR APPROVAL: *R. F. Hecker*  
Sr. Assoc. Engr.-Design

JOB No. PW897B(2)



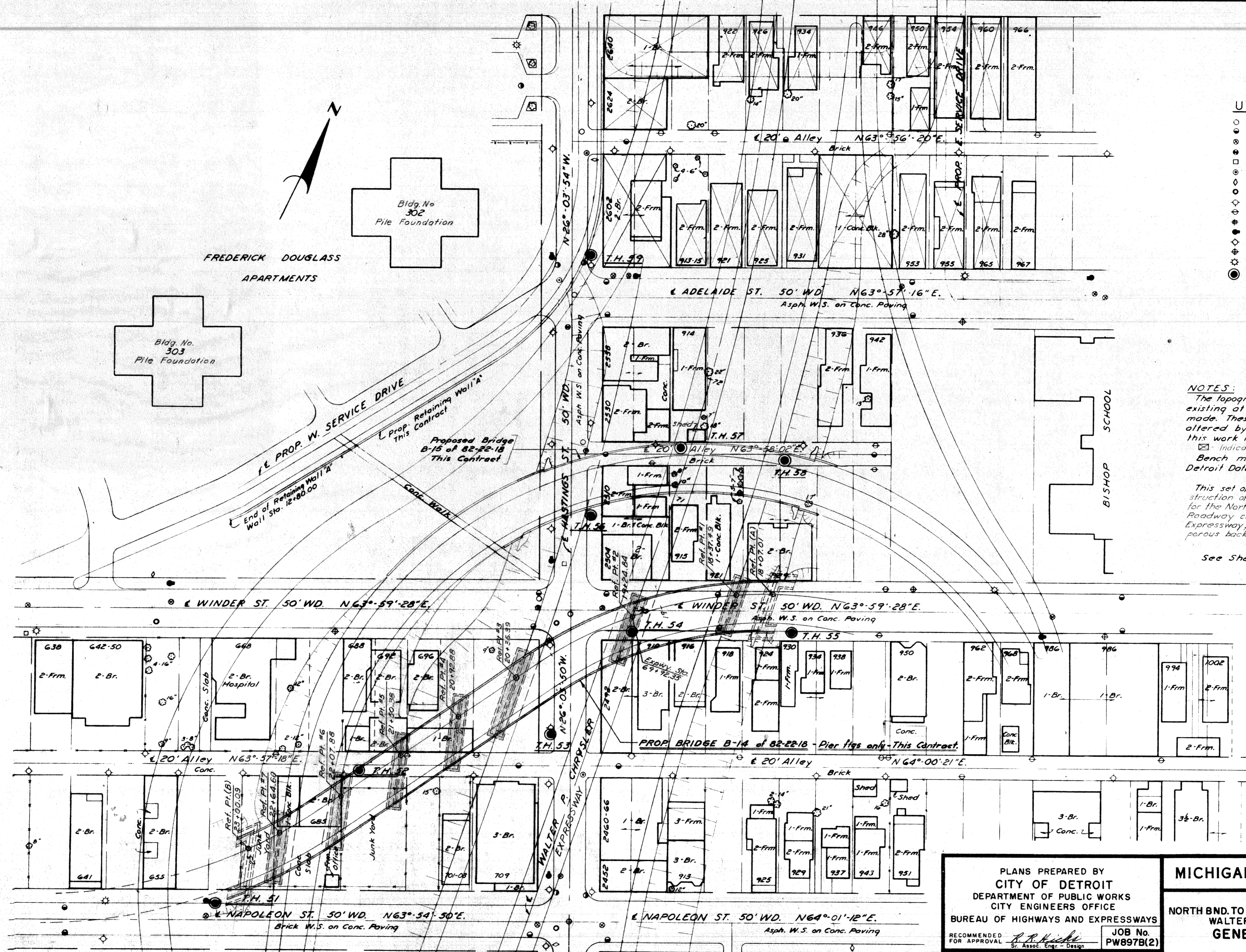


- UTILITY LEGEND**
- Sewer Manhole
  - Sewer Inlet or Catchbasin
  - ⊗ Water Gate Well & Valve
  - ⊗ Water Gate & Box
  - ⊗ Water Service Shut-off
  - ⊗ Detroit Edison Co. Manhole
  - ⊗ Gas Valve
  - D.F.D. Manhole
  - D.S.P. Pole
  - M.B.T. Pole
  - ⊗ D.F.D. Alarm Box
  - ⊗ Fire Hydrant
  - D.E. Pole
  - ⊗ P.L.C. Pole (Without Light)
  - ⊗ P.L.C. Lightpole
  - ⊗ Test Hole for Soil Profile

**NOTES:**  
 The topography shown represents conditions existing at the time the field survey was made. These conditions may have been altered by the operations of others before this work is started.  
 ⊗ Indicates removal under prior contract  
 Bench marks are referenced to City of Detroit Datum.  
 This set of drawings covers only the construction of the pier footings of the Bridge for the North Bnd. to the West Bnd. Turning Roadway crossing the Walter P. Chrysler Expressway, including incidental drainage, porous backfill, and incidental work.

See Sheet No. 2 for Log of Borings.

*Indicate Pier Centerline & on all alignment sketches as well as details*



**SURVEY PLAN**  
 SCALE 1" = 40'

PRELIMINARY PLAN "A"  
 Sept. 14, 1957  
 CONTROL SECTION 82251-30202

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

RECOMMENDED FOR APPROVAL *R. P. ...* JOB No. PW897B(2)  
 St. Assoc. Engr. - Design

REVISIONS			
NO.	DESCRIPTION	DATE	BY

**MICHIGAN STATE HIGHWAY DEPARTMENT**

NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**GENERAL PLAN OF SITE**

CITY OF DETROIT

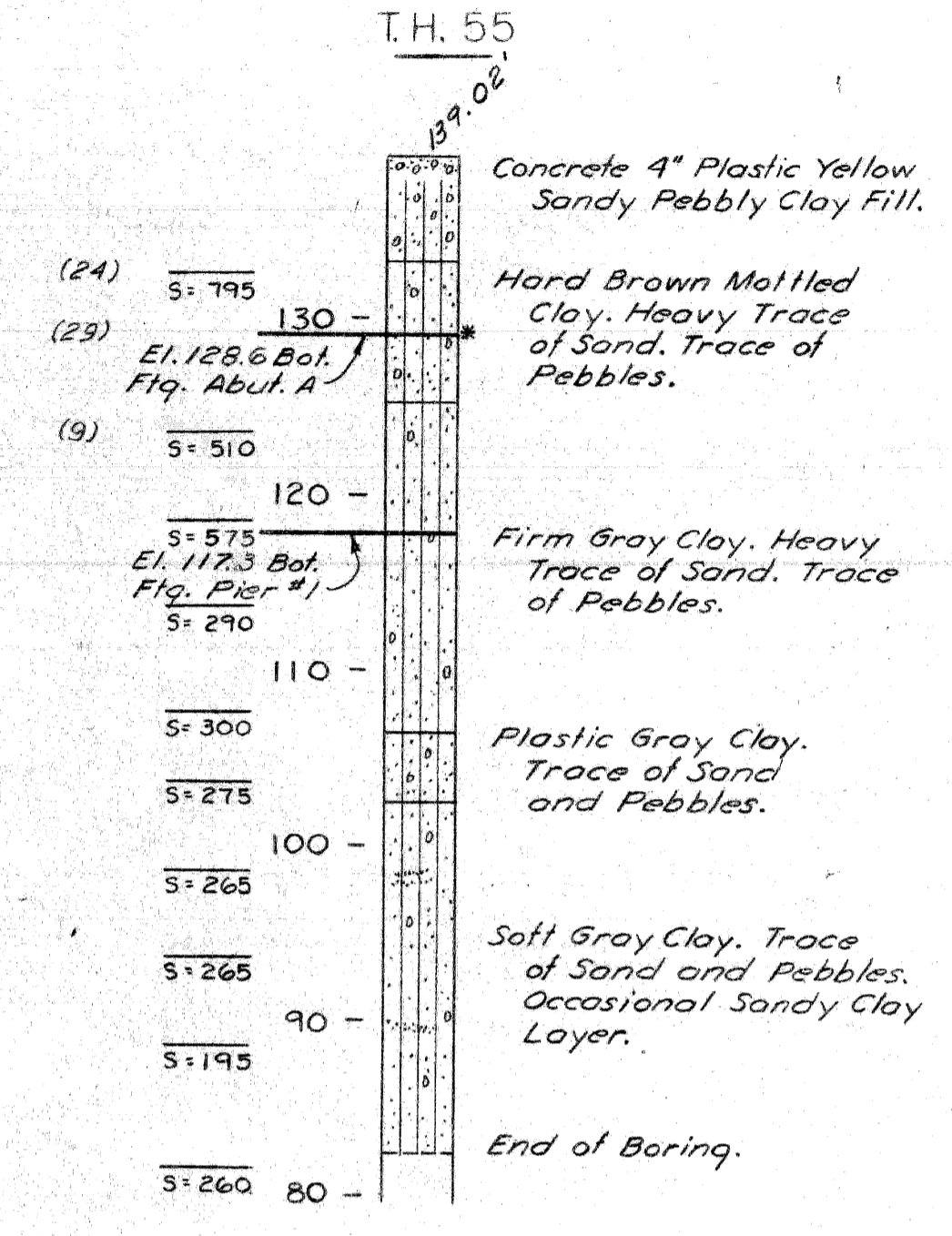
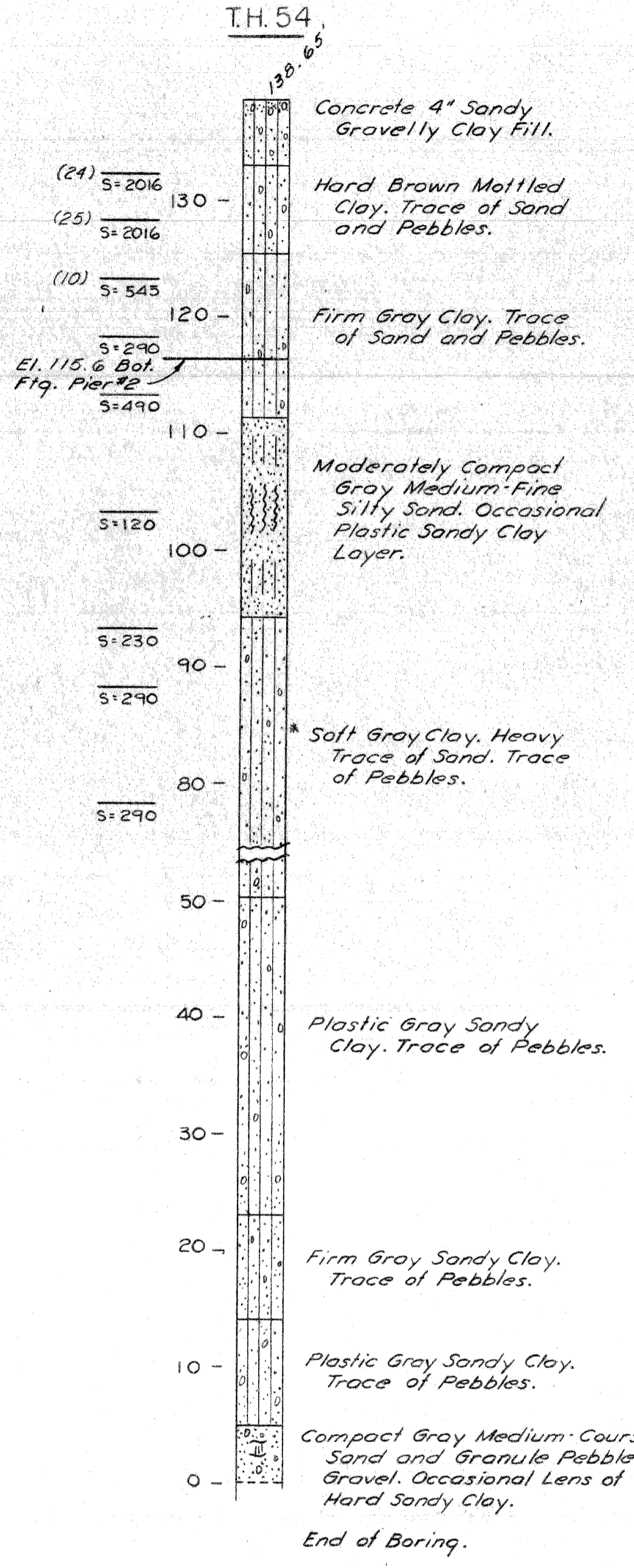
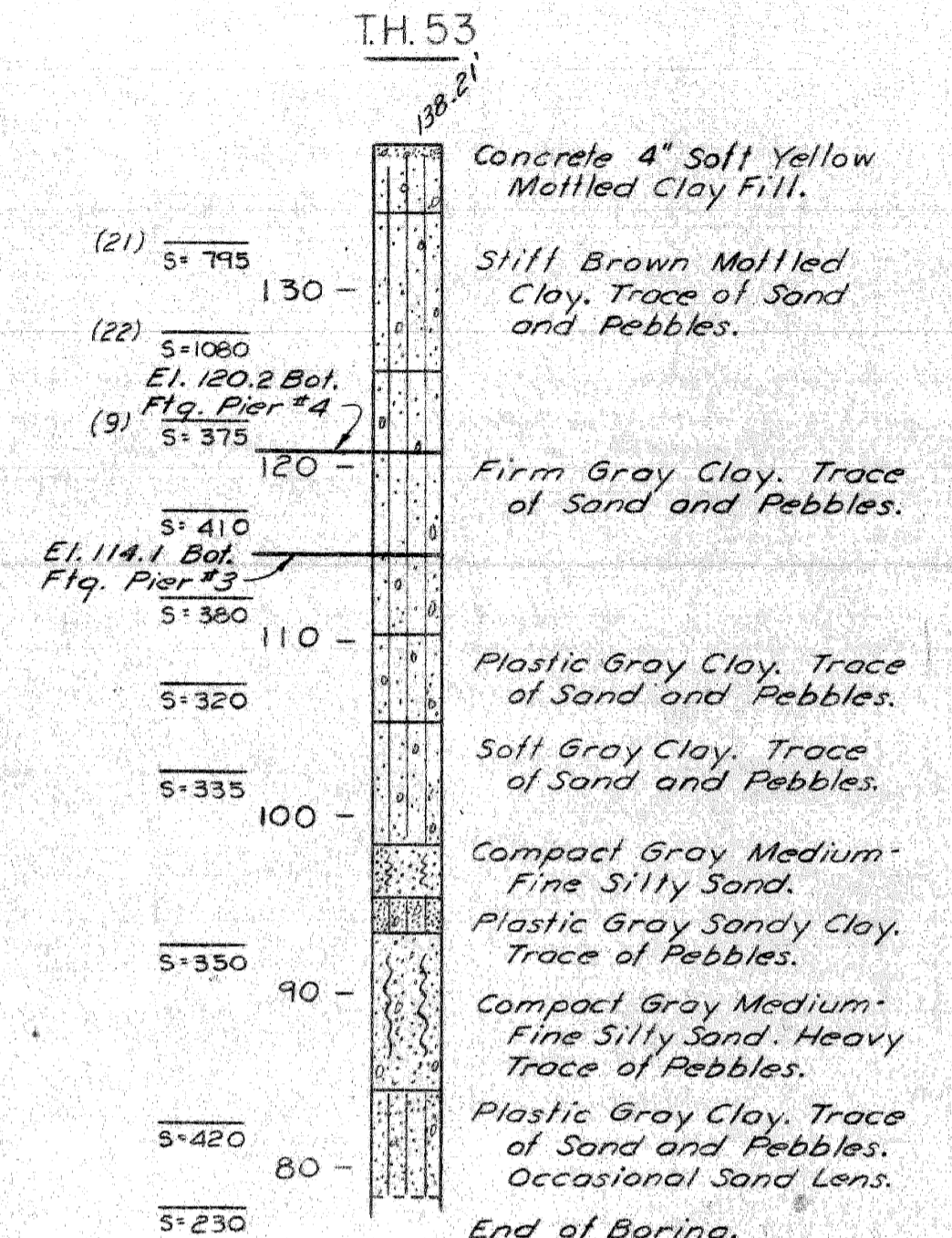
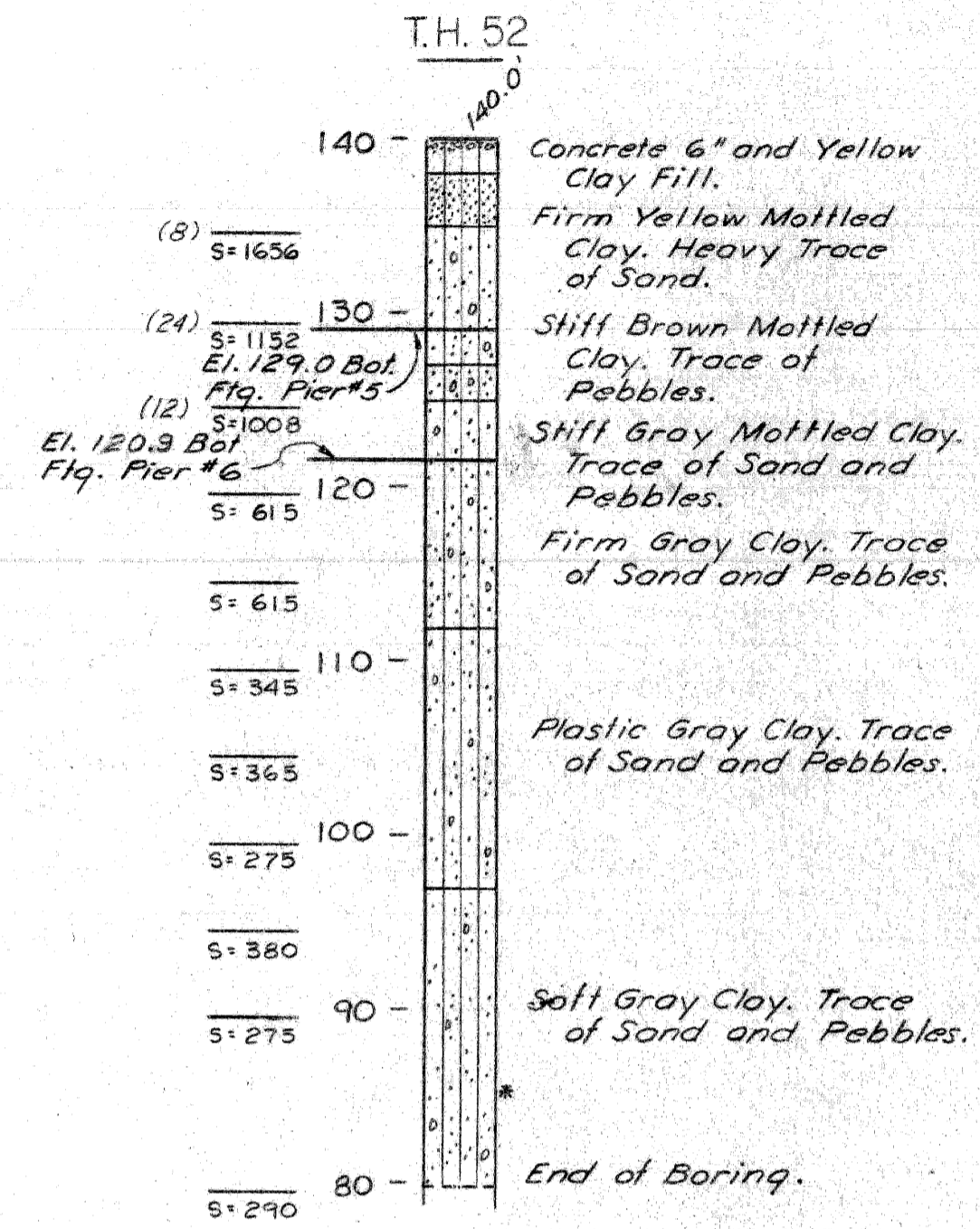
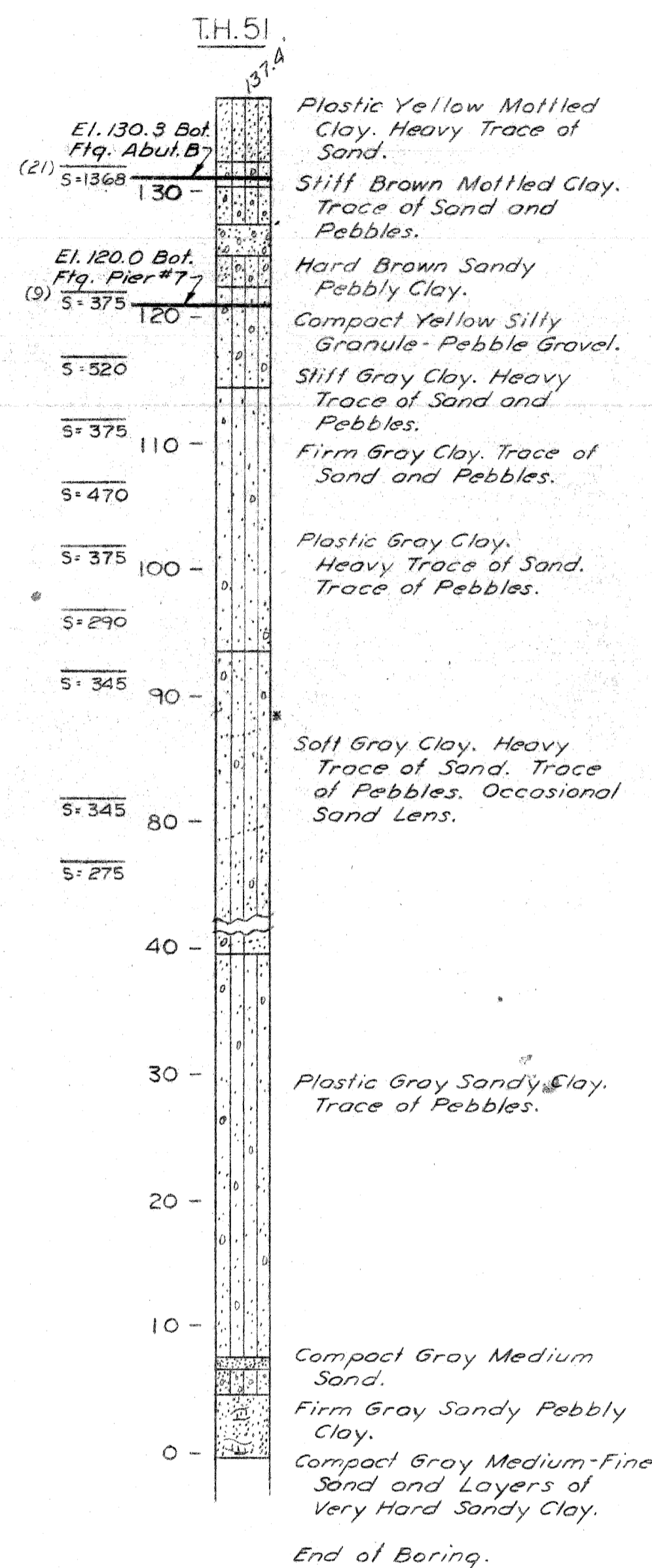
DESIGNED BY	<i>C. Lederer</i>	9/59
DRAWN BY	<i>R. ...</i>	3/57
TRACED BY	<i>...</i>	3/57
CHECKED BY	<i>...</i>	3/57

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

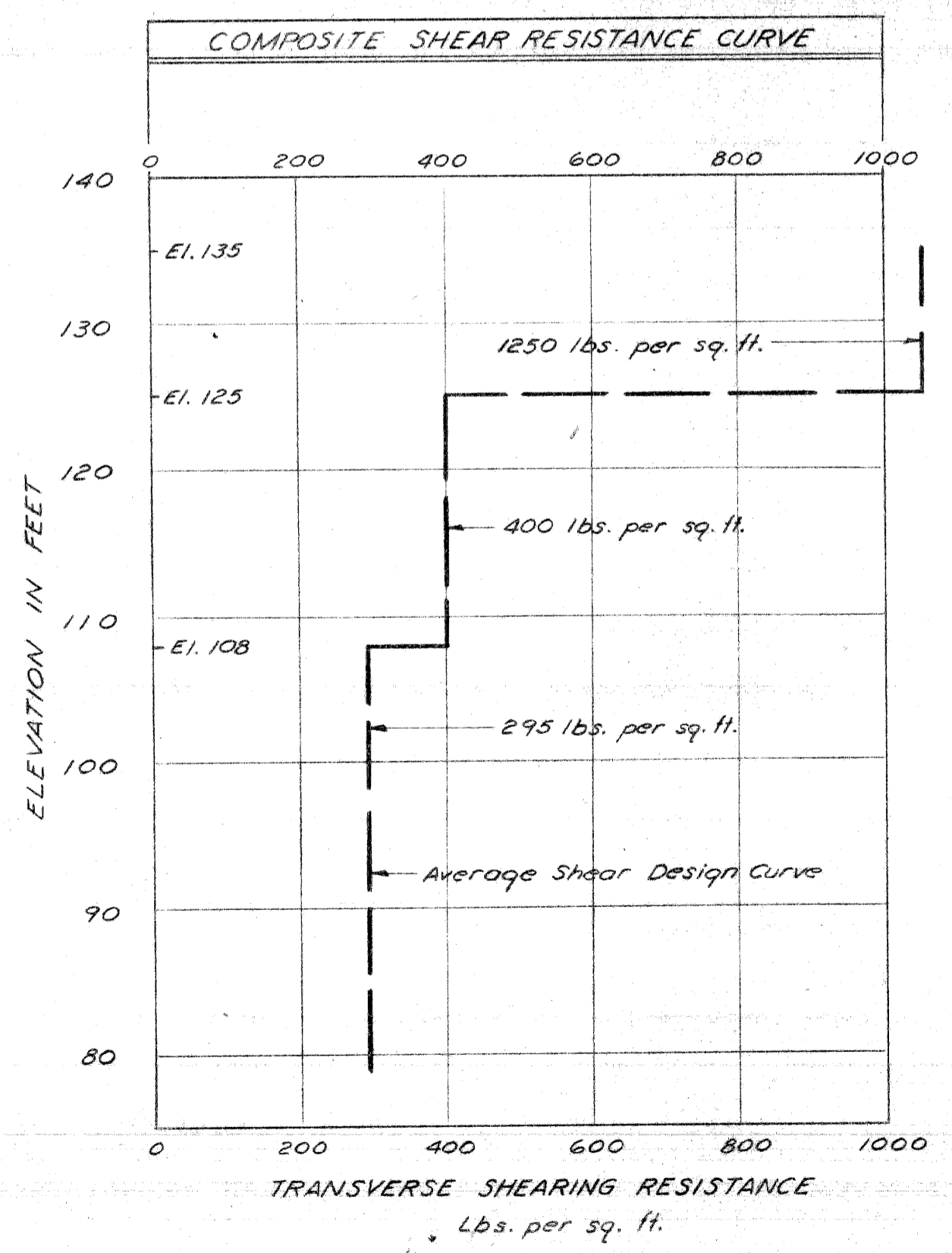
**B14 OF 82-22-18**



LOG OF BORINGS



\* Indicates unsuccessful recovery of liner sample.  
 S Indicates shearing resistance in lbs per sq. ft.  
 (21) Indicates penetration in number of blows per ft.



Work this drwg. with drwg. #1.

PRELIMINARY PLAN "A"  
 Sept. 14, 1959  
 CONTROL SECTION 82251-30203

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

RECOMMENDED FOR APPROVAL: *R.R. Nicks*  
 Sr. Assoc. Engr. - Design

JOB No. PW 897B(2)

NO.	DESCRIPTION	DATE	BY

**MICHIGAN STATE HIGHWAY DEPARTMENT**

CHRYSLER-FISHER INTERCHANGE  
 NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
 WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**SOIL BORING LOG**

CITY OF DETROIT

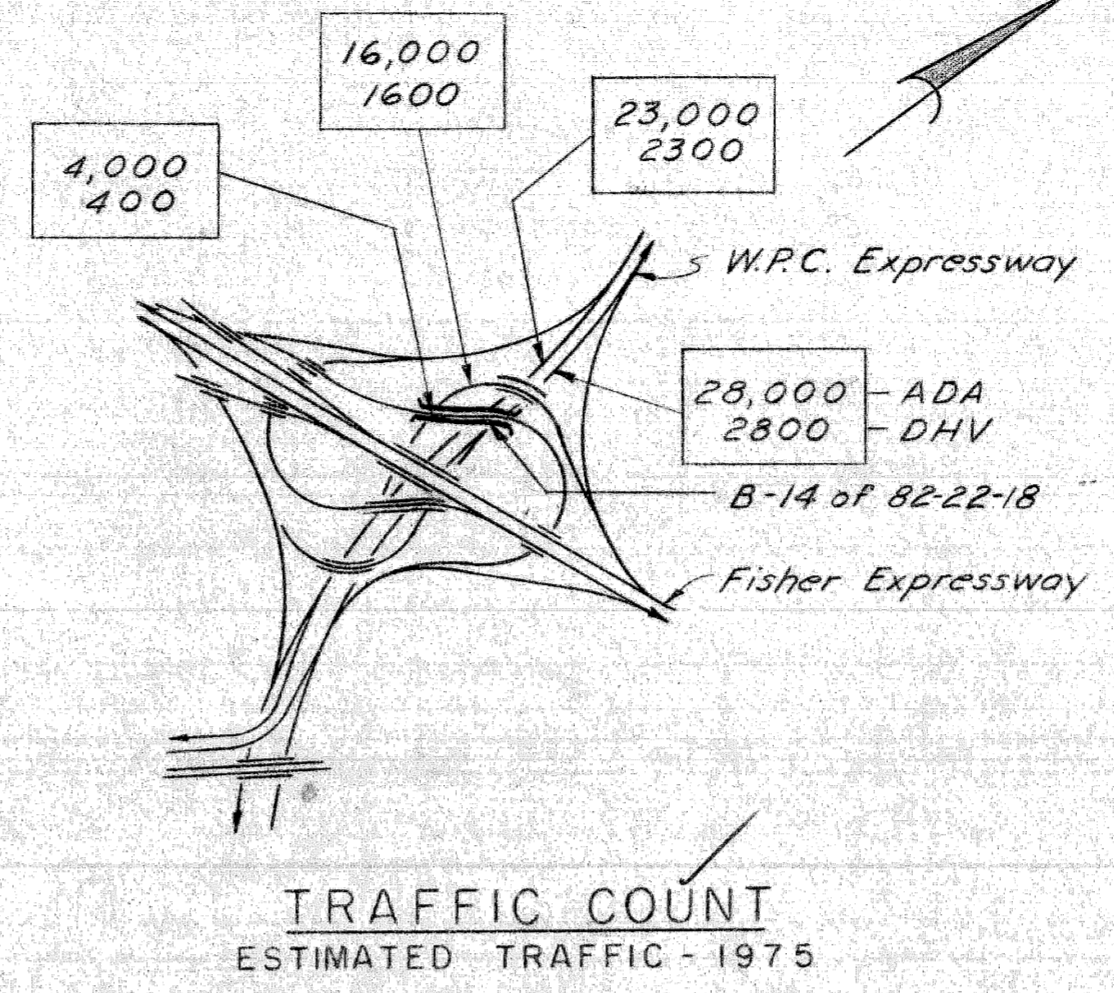
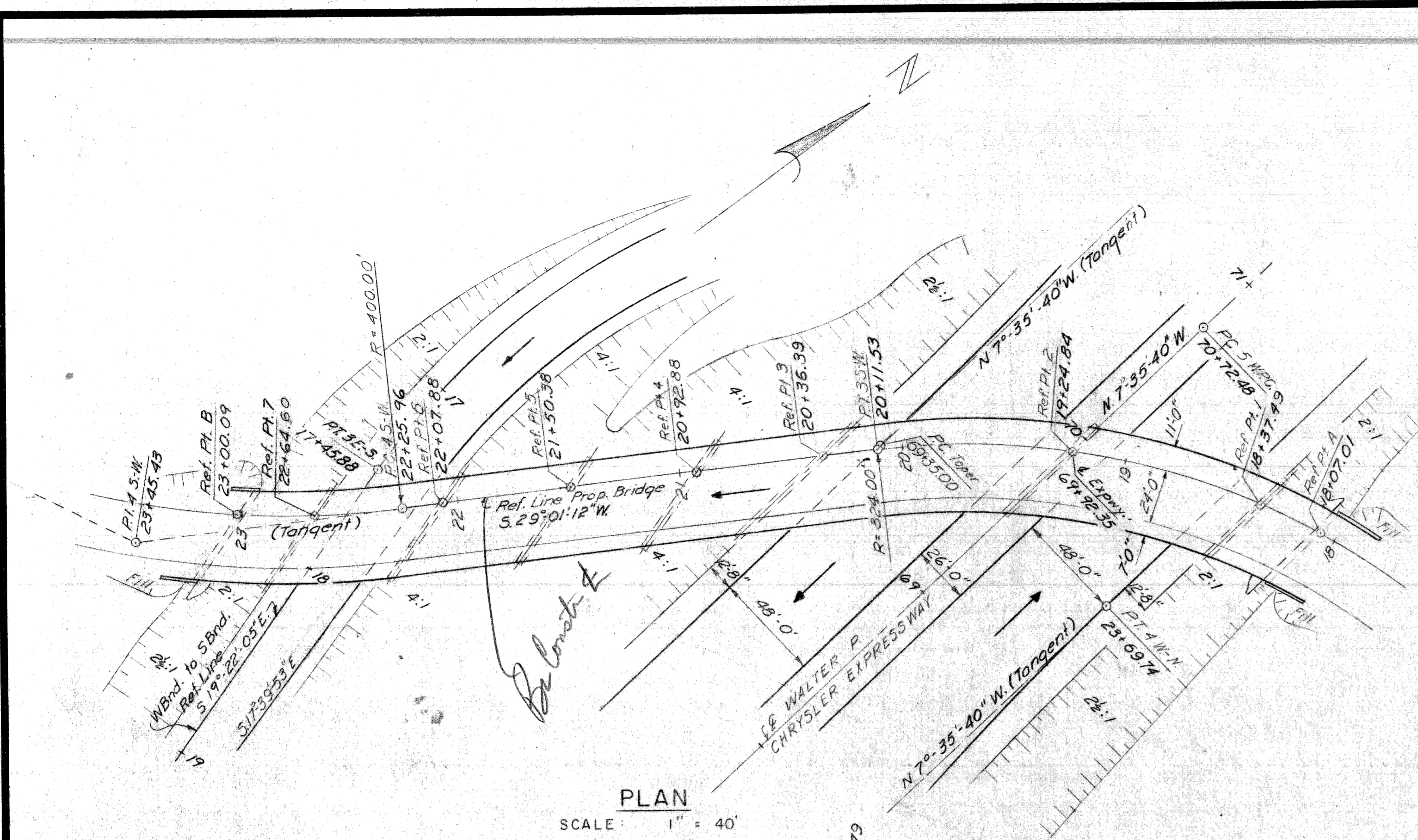
SQUAD BOSS	<i>P. Loderich</i>	9/15/59
DRAWN BY	<i>R. Harris</i>	9/15/59
CHECKED BY	<i>EDWARD L.</i>	9/15/59
SHEET	2	OF 3

APPROVED \_\_\_\_\_ COORDINATING ENGINEER

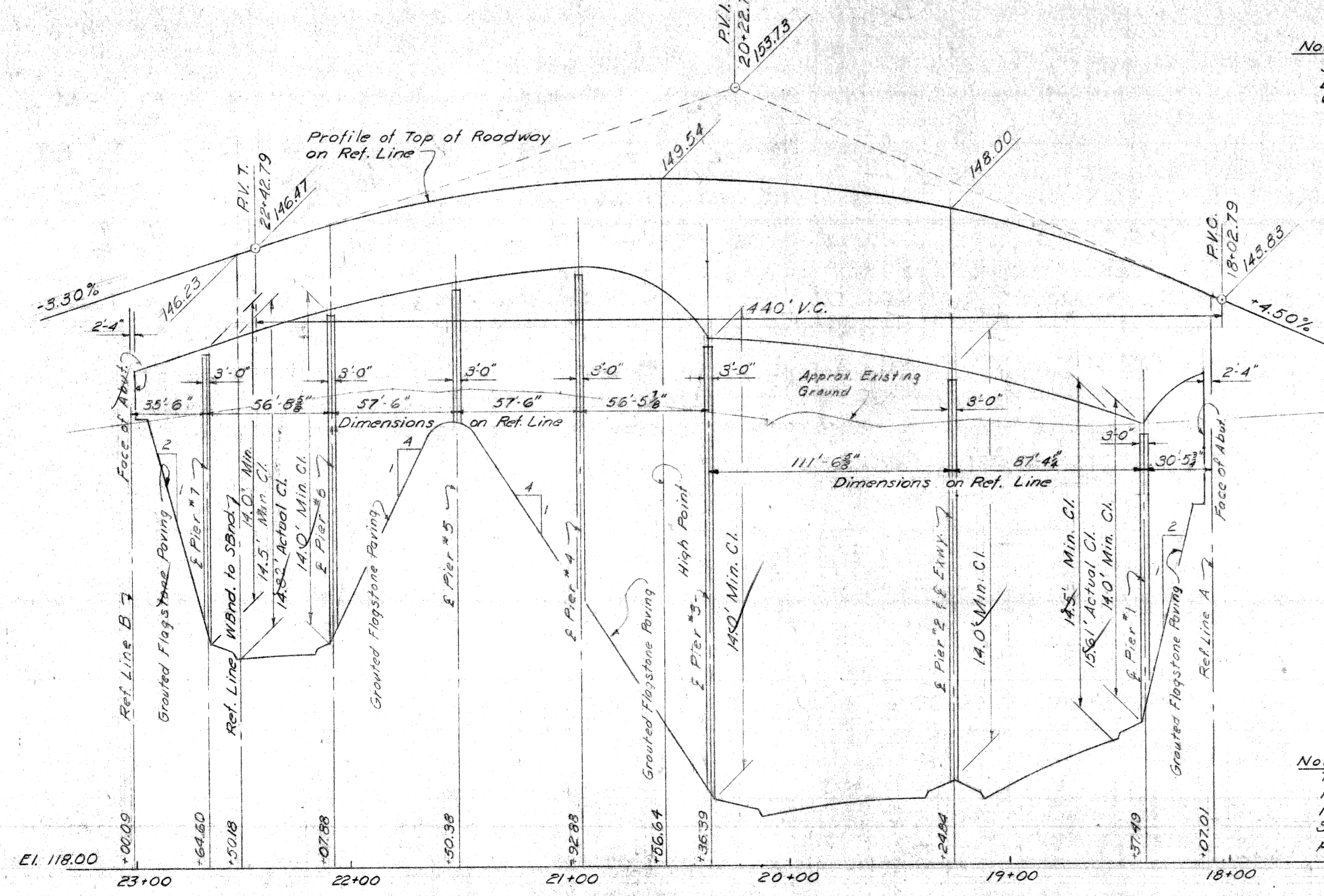
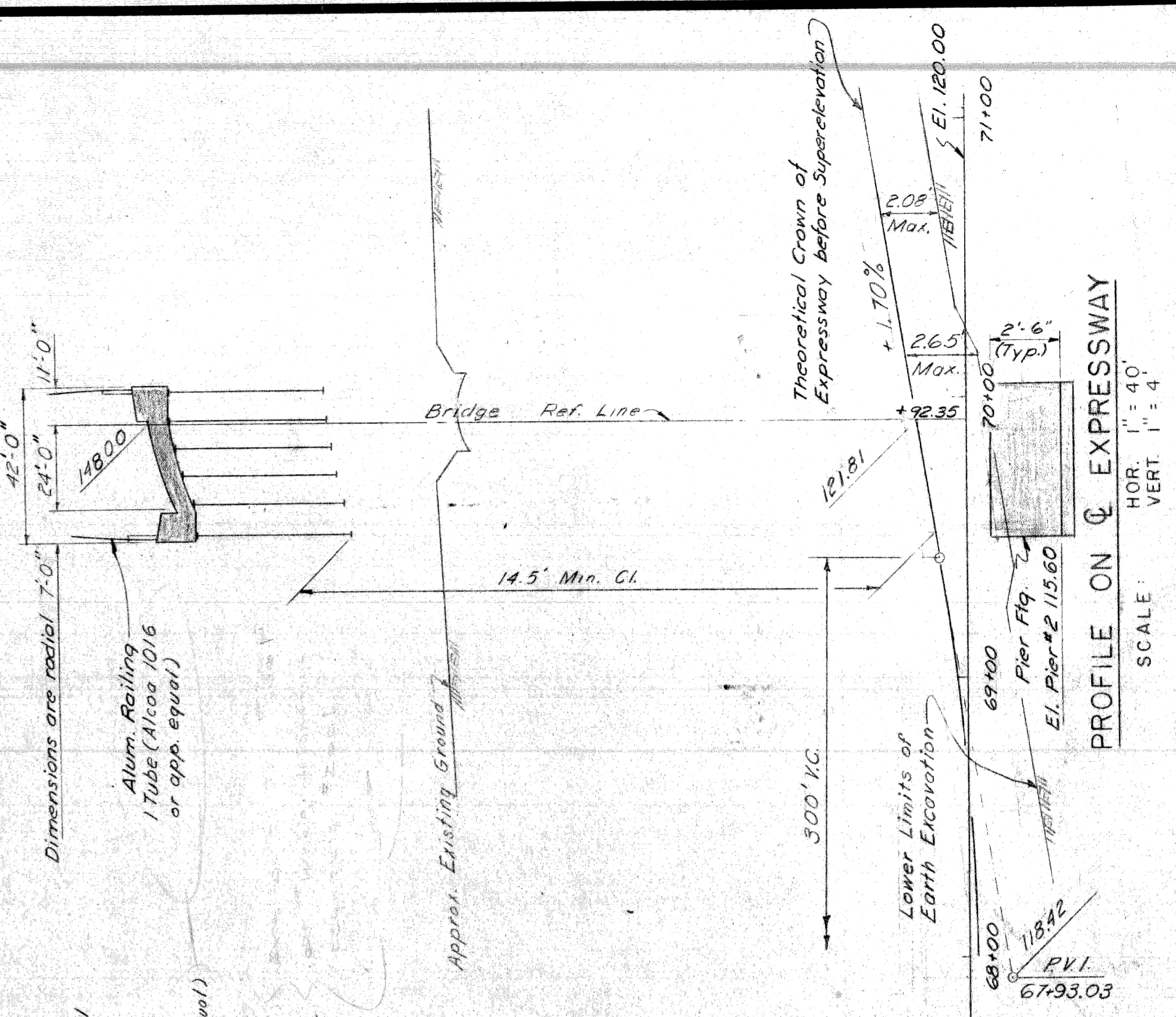
APPROVED \_\_\_\_\_ ENGINEER OF DESIGN-CONSULTANTS

**B14 OF 82-22-18**





Note:  
See Sheet #4 for Alignment Diagram, Bench Marks, and Curve Data.



Note:  
The stationing as shown on these plans for the intersection of the Reference Line of the NBnd. to WBnd. Turning Roadway and the centerline of the Walter P. Chrysler Expressway is believed to be correct. It shall, however, be checked at the time of starting construction and if the stationing shown on the plans is incorrect it shall be reported to the Design Office of Lansing and the structure shall be staked out using the actual intersection of the Reference Line of the NBnd. to WBnd. Turning Roadway and the centerline of the Walter P. Chrysler Expressway as the Control.

Note:  
The indicated slopes are normal to roadway shoulder line. Substructure dimensions are perpendicular to the substructure.

PRELIMINARY PLAN "A" Sept. 14, 1957

CONTROL SECTION 82251-30202

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

RECOMMENDED FOR APPROVAL  
Sr. Assoc. Engr. - Design  
*R. P. Micks*

JOB No. PW897B(2)

NO.	DESCRIPTION	DATE	BY

MICHIGAN STATE HIGHWAY DEPARTMENT

CHRYSLER-FISHER INTERCHANGE  
NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

CITY OF DETROIT

GENERAL DRAWING

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

SQUAD BOSS *C. Z. Carter* 9-59  
DRAWN BY *R. P. Micks* 9-59  
CHECKED BY *O. G. D. L.* 9-59  
SHEET 3 OF 3

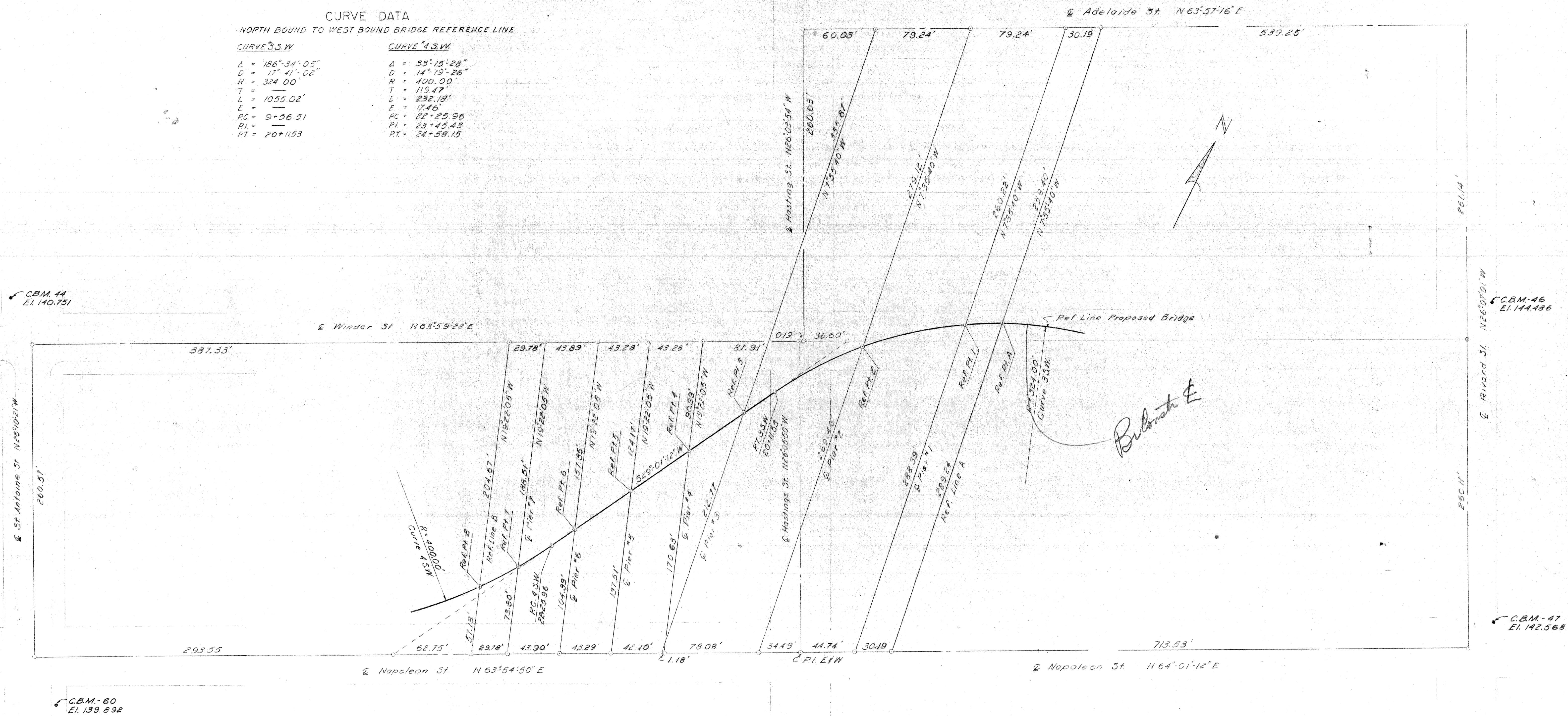
B14 OF 82-22-18

Work this sheet with Sheet #4



**CURVE DATA**  
NORTH BOUND TO WEST BOUND BRIDGE REFERENCE LINE

<b>CURVE 3.S.W.</b>	<b>CURVE 4.S.W.</b>
Δ = 186° 34' 05"	Δ = 53° 15' 28"
D = 17° 41' 02"	D = 14° 19' 26"
R = 324.00	R = 400.00
T = —	T = 119.47'
L = 1055.02'	L = 232.18'
E = —	E = 17.46'
PC = 9+56.51	PC = 22+25.96
PI = —	PI = 23+45.43
PT = 20+11.53	PT = 24+58.15



**Construction Bench Marks**

- C.B.M. 44 Arrow on hydrant NW corner St. Antoine and Winder Elev. 140.761
- C.B.M. 46 Arrow on hydrant NE corner Rivard and Winder Elev. 144.486
- C.B.M. 47 Arrow on hydrant NE corner Rivard and Napoleon Elev. 142.568
- C.B.M. 60 Arrow on hydrant SE corner St. Antoine and Napoleon Elev. 139.892
- P.B.M. 39-250 City of Detroit monument NE corner Hastings and Elizabeth Elev. 129.150
- P.B.M. 39-251A City of Detroit monument NW corner Rivard and Wilkins Elev. 140.842

**NOTE**  
 0 Indicates reference points or points of intersection  
 C.B.M. denotes construction bench mark  
 P.B.M. denotes permanent bench mark

**ALIGNMENT DIAGRAM**  
Not to Scale

Work this sheet with sheet 3

PRELIMINARY PLAN "A"  
Sept. 14, 1959  
CONTROL SECTION 82251-30202

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

RECOMMENDED FOR APPROVAL: *R. A. Kitchin*  
 Sr. Assoc. Engr.—Design

JOB No. PW897B(2)

NO.	DESCRIPTION	DATE	BY

**MICHIGAN STATE HIGHWAY DEPARTMENT**

CHRYSLER-FISHER INTERCHANGE  
 NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
 WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

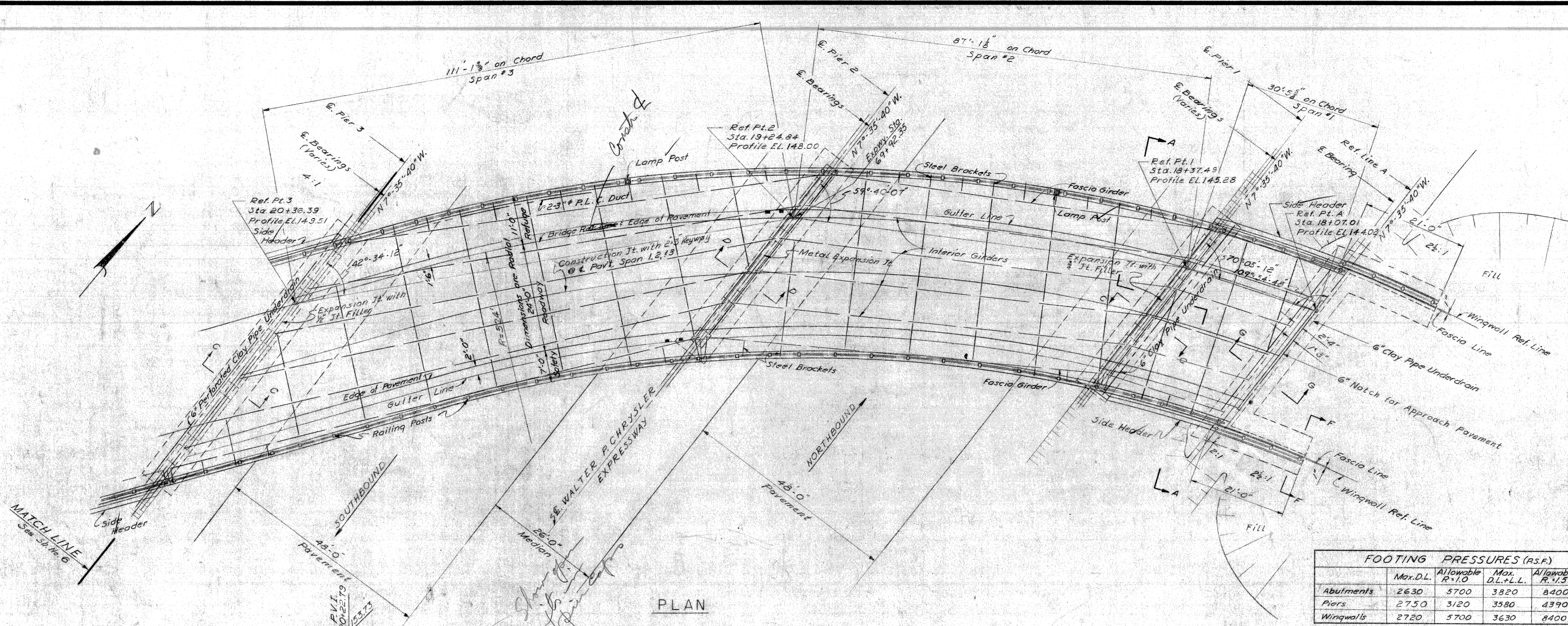
**ALIGNMENT DIAGRAM**

SQUAD ROSS	<i>C. J. ...</i>	9-59
DRAWN BY	<i>FW...</i>	9-59
TRACED BY		
CHECKED BY	<i>O. G. ...</i>	9-59

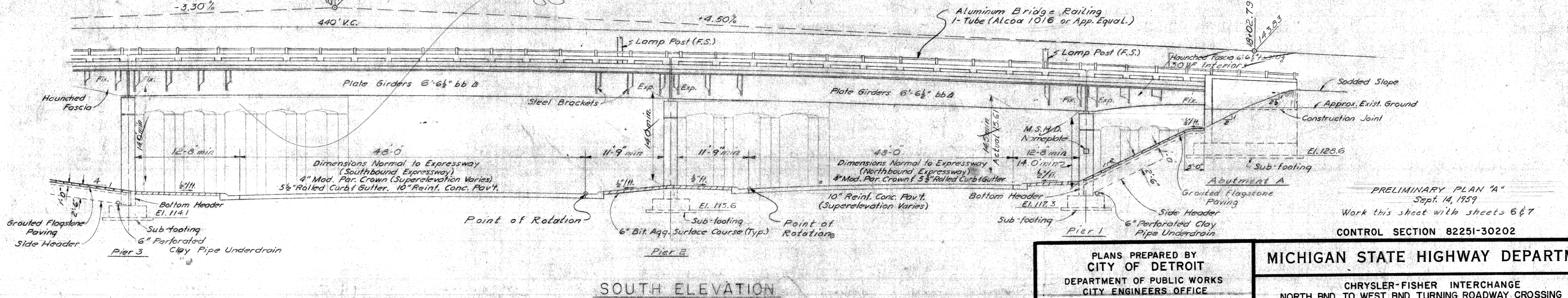
APPROVED: \_\_\_\_\_ COORDINATING ENGINEER  
 APPROVED: \_\_\_\_\_ ENGINEER OF DESIGN - CONSULTANTS

**B14 OF 82-22-18**





FOOTING PRESSURES (RS.F.)				
	Max.D.L.	Allowable R-1.0	Max. D.L.+L.L.	Allowable R-1.5
Abutments	2630	5700	3820	8400
Piers	2750	3120	3580	4390
Wingwalls	2720	5700	3630	8400



**GENERAL NOTES**  
 The design of this structure is based on the M.S.H.D. Standard Specifications for the Design of Highway Bridges, 1958 Edition. (H20-516-44 and Alternate Military Loading).  
 Live Load Impact Deflection = 1/1000 of Span Length.

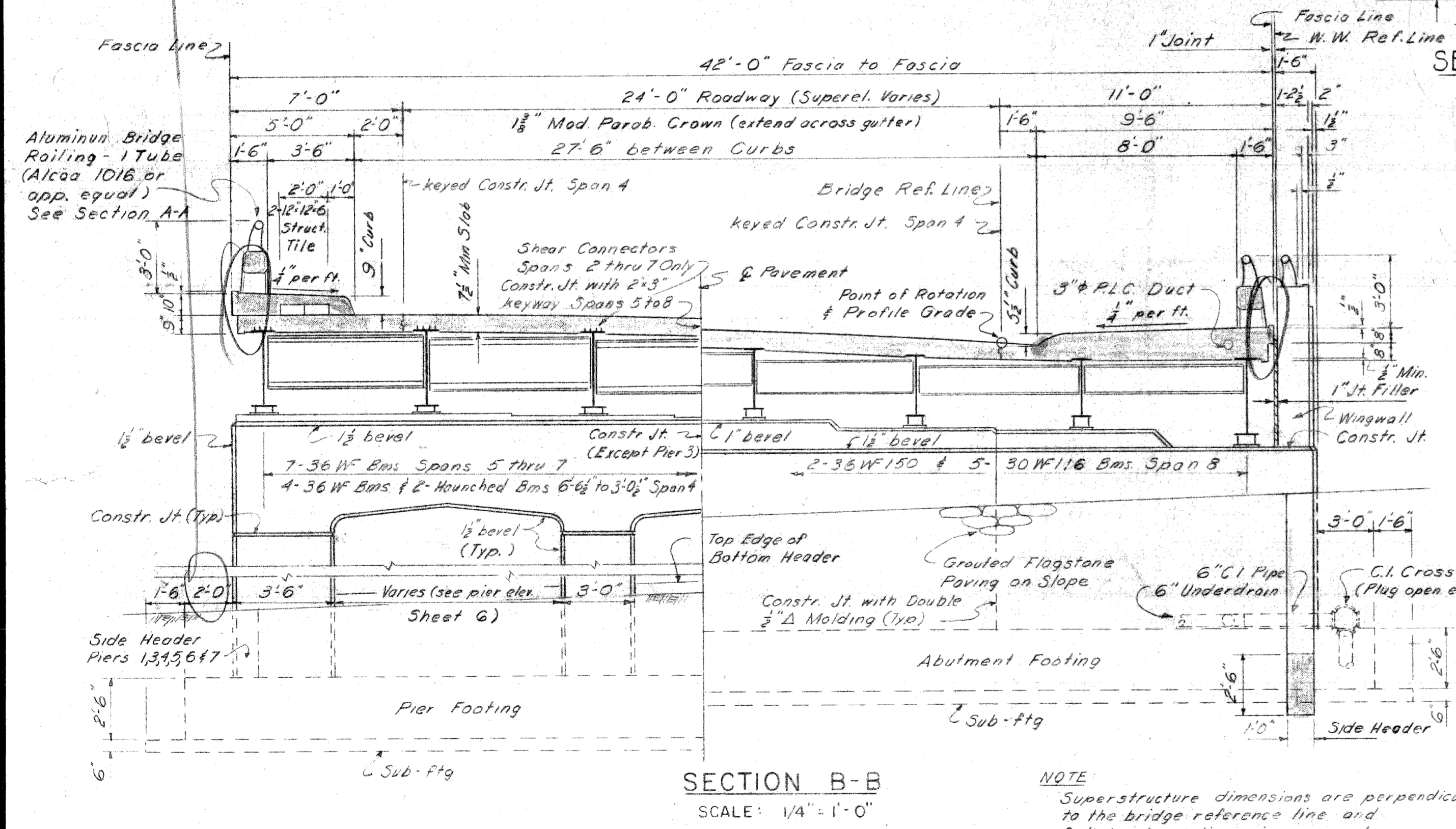
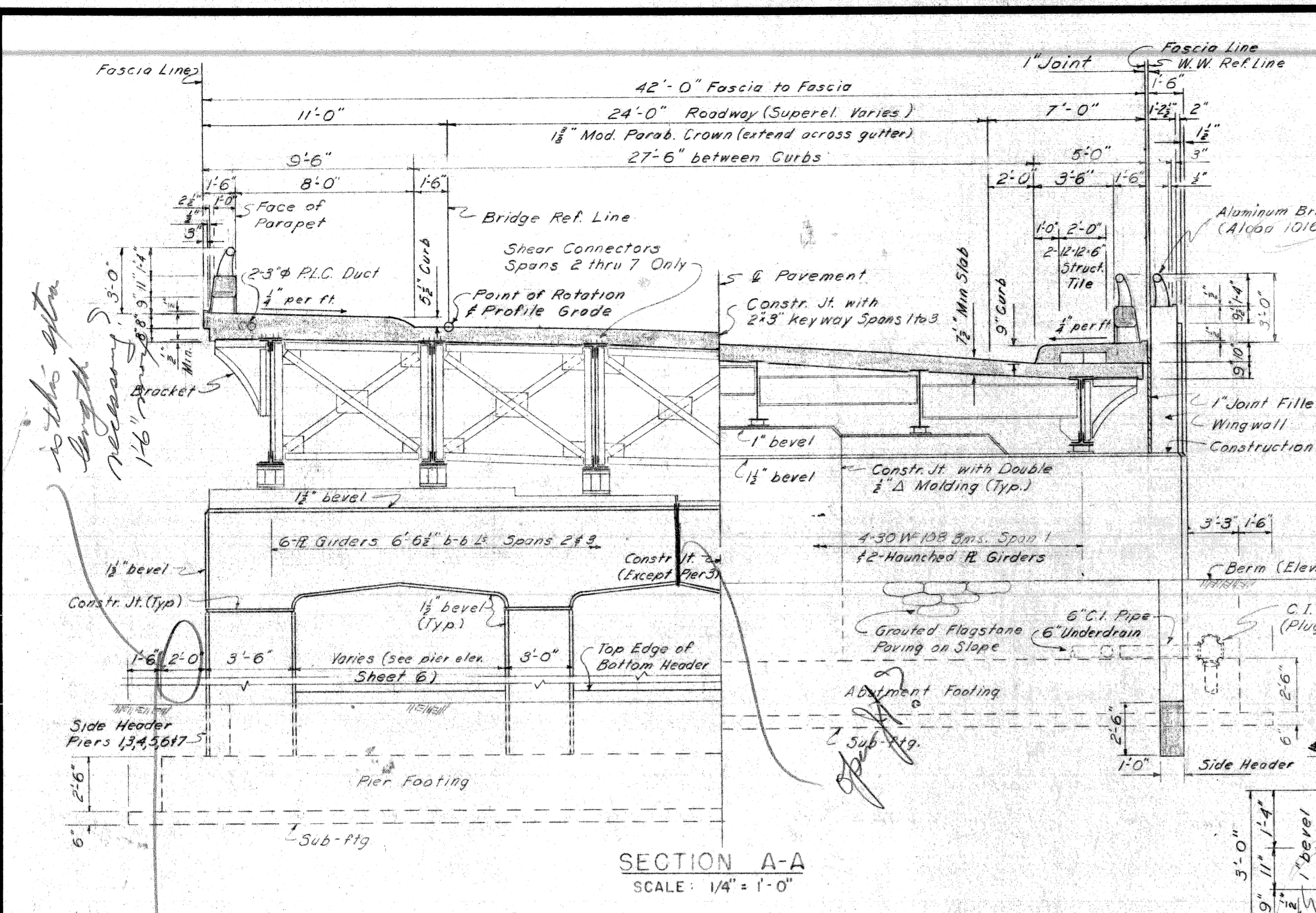
PRELIMINARY PLAN "A"  
 Sept. 14, 1959  
 Work this sheet with sheets 6 & 7  
 CONTROL SECTION 82251-30202

PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS		MICHIGAN STATE HIGHWAY DEPARTMENT CHRYSLER-FISHER INTERCHANGE NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE WALTER P. CHRYSLER EXPRESSWAY IN DETROIT	
RECOMMENDED FOR APPROVAL Sr. Assoc. Engr. Design <i>[Signature]</i>	JOB No. PW897B(2)	GENERAL PLAN OF STRUCTURE CITY OF DETROIT SQUAD BOSS: <i>[Signature]</i> 9-59 DRAWN BY: <i>[Signature]</i> 9-59 TRACED BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> 9-59 SHEET 3 OF 3	
APPROVED _____ COORDINATING ENGINEER		APPROVED _____ ENGINEER OF DESIGN-CONSULTANTS	

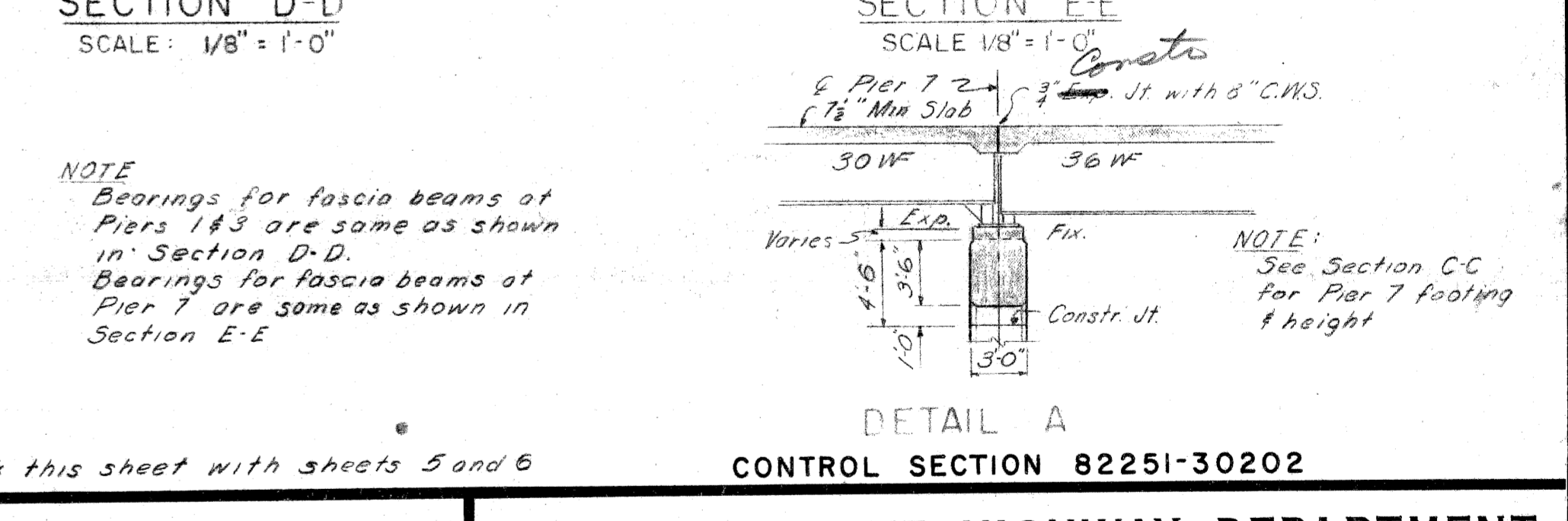
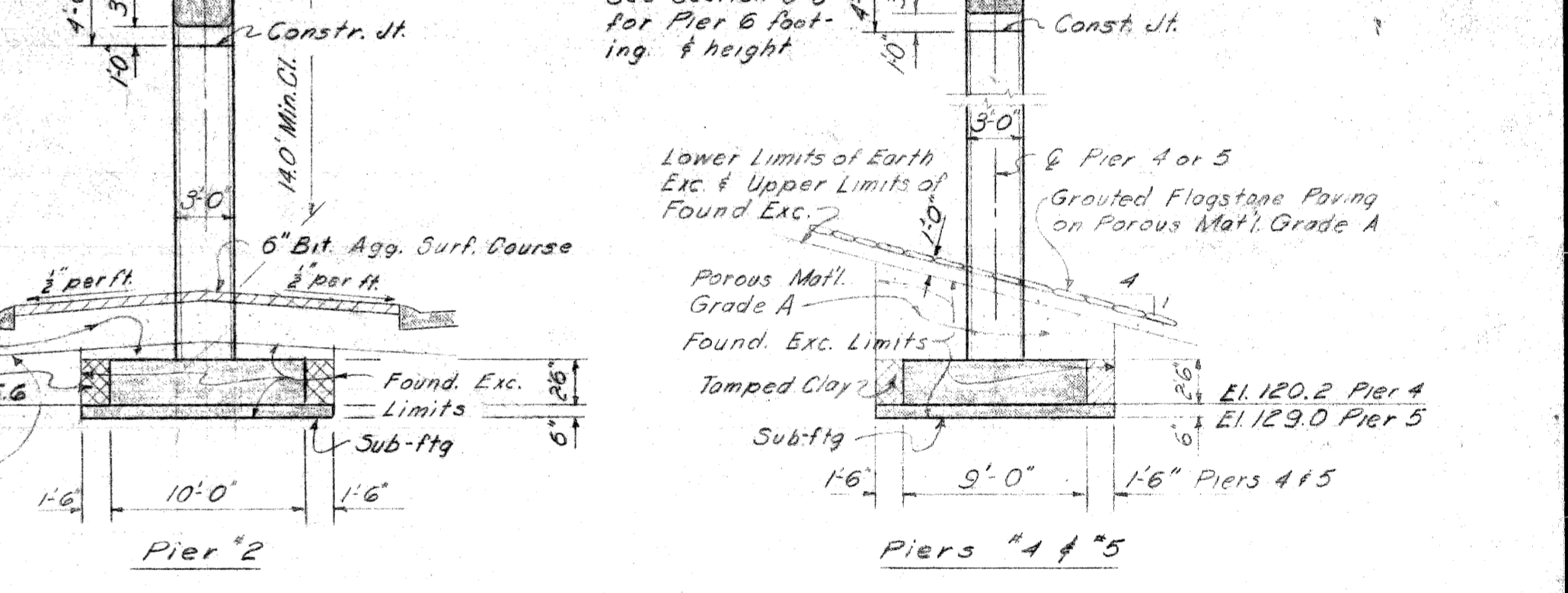
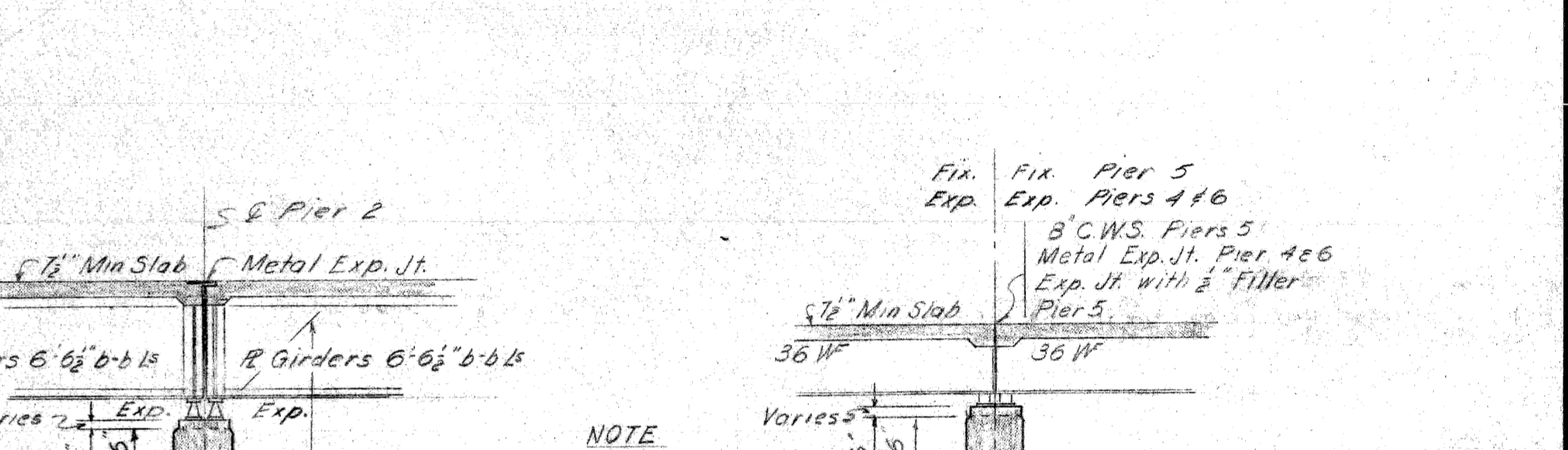
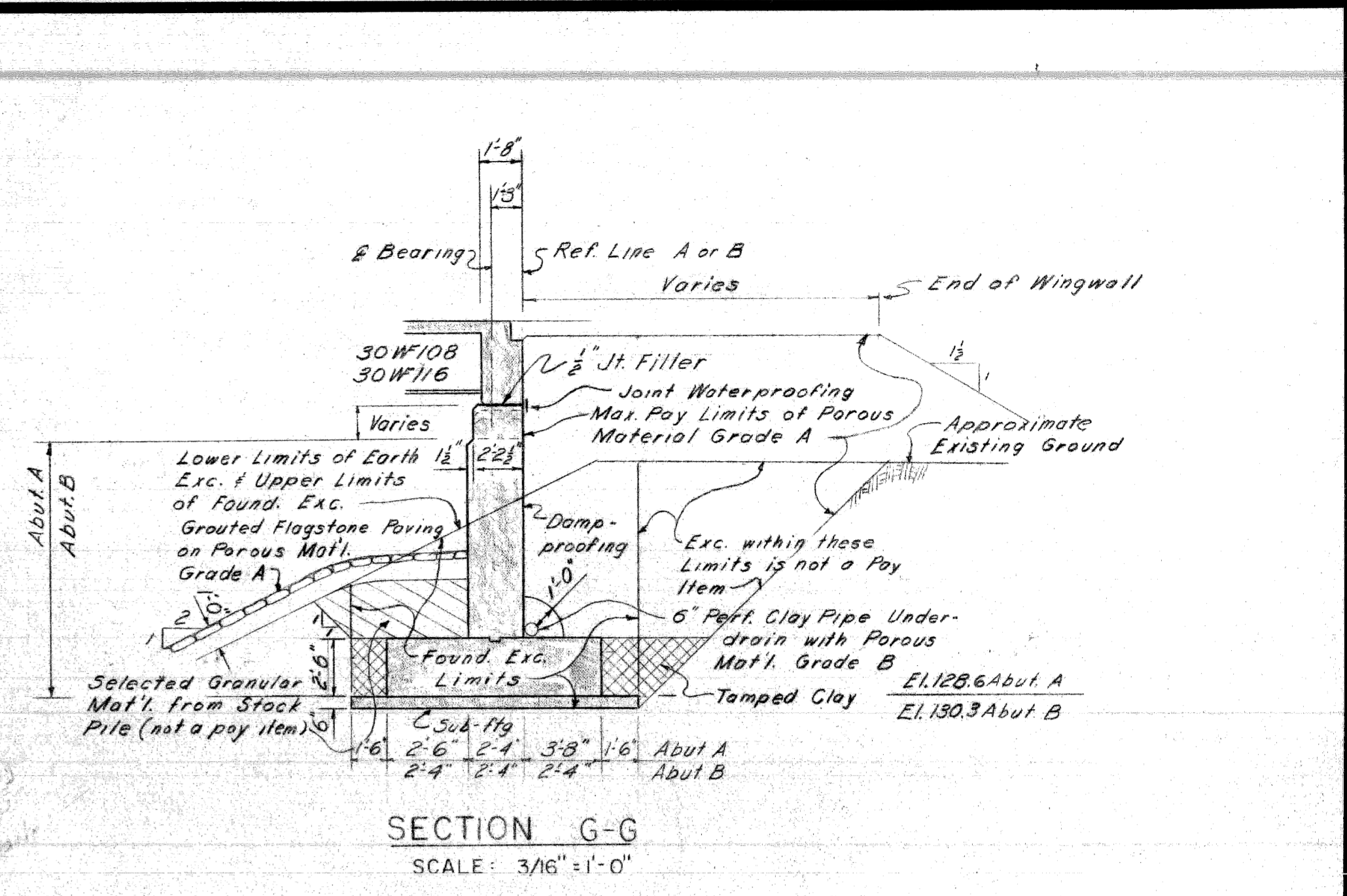
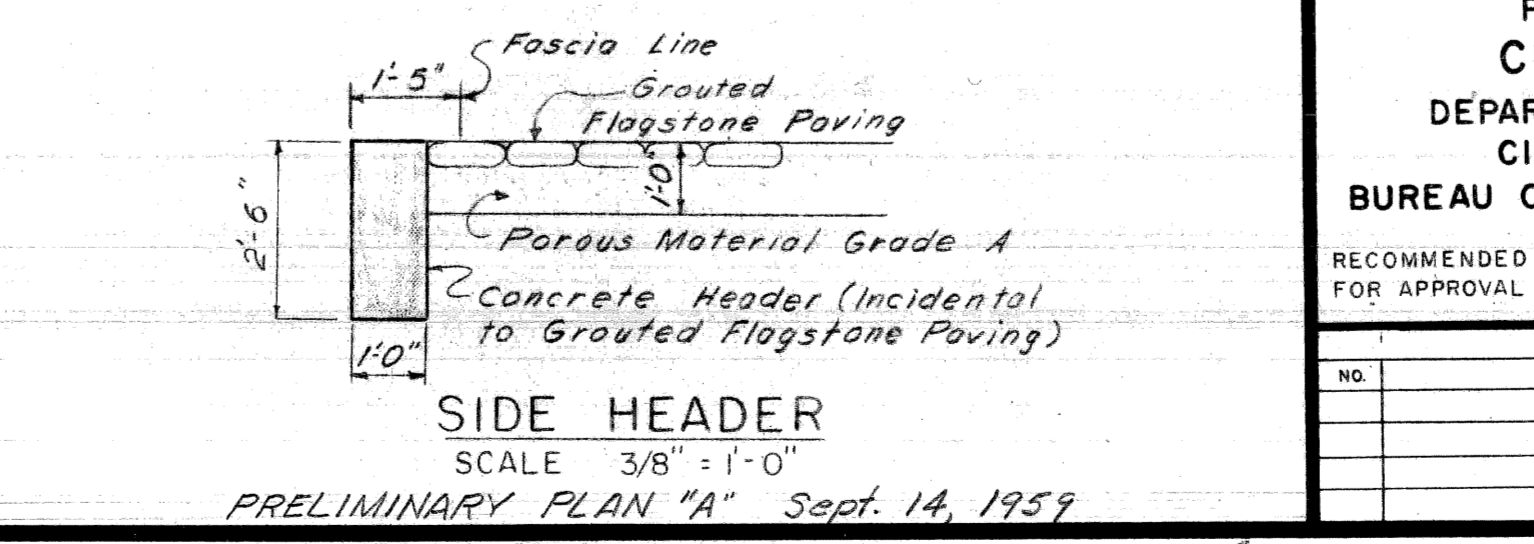
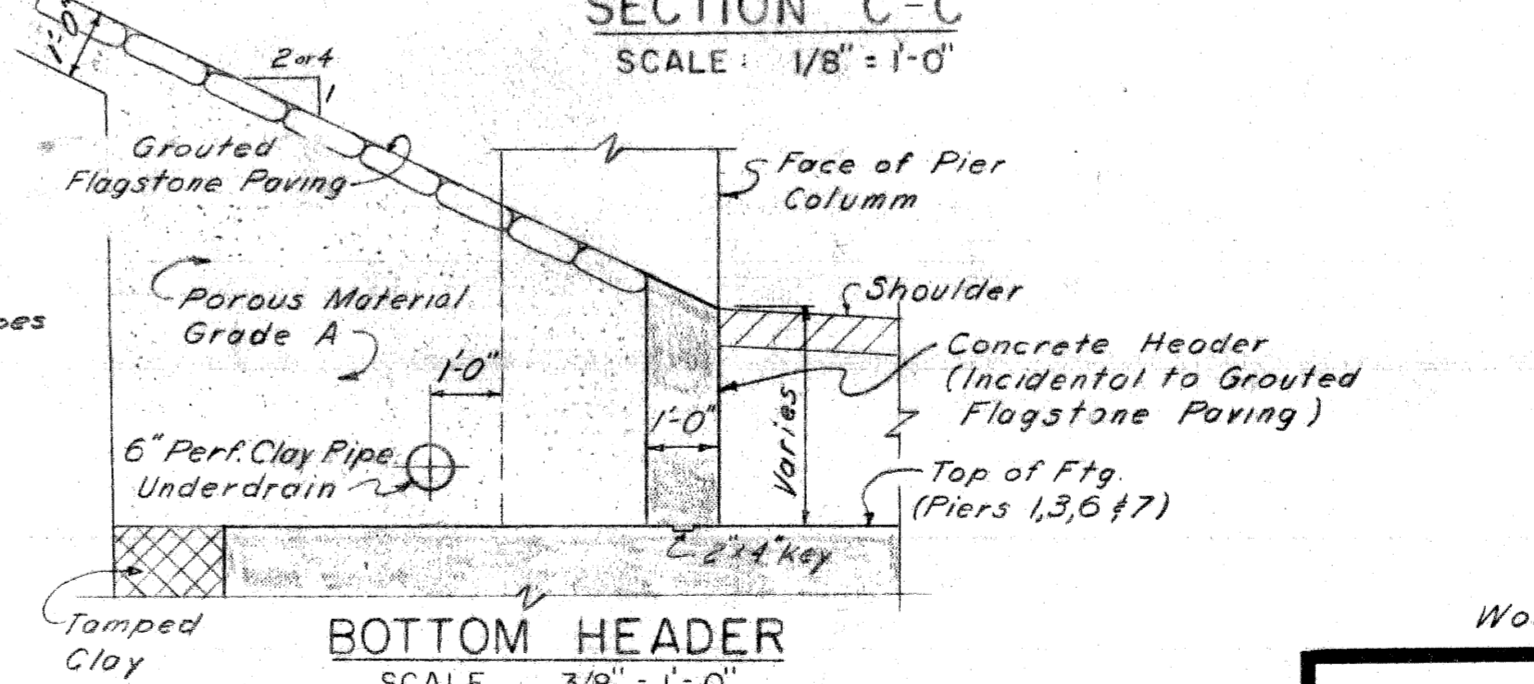
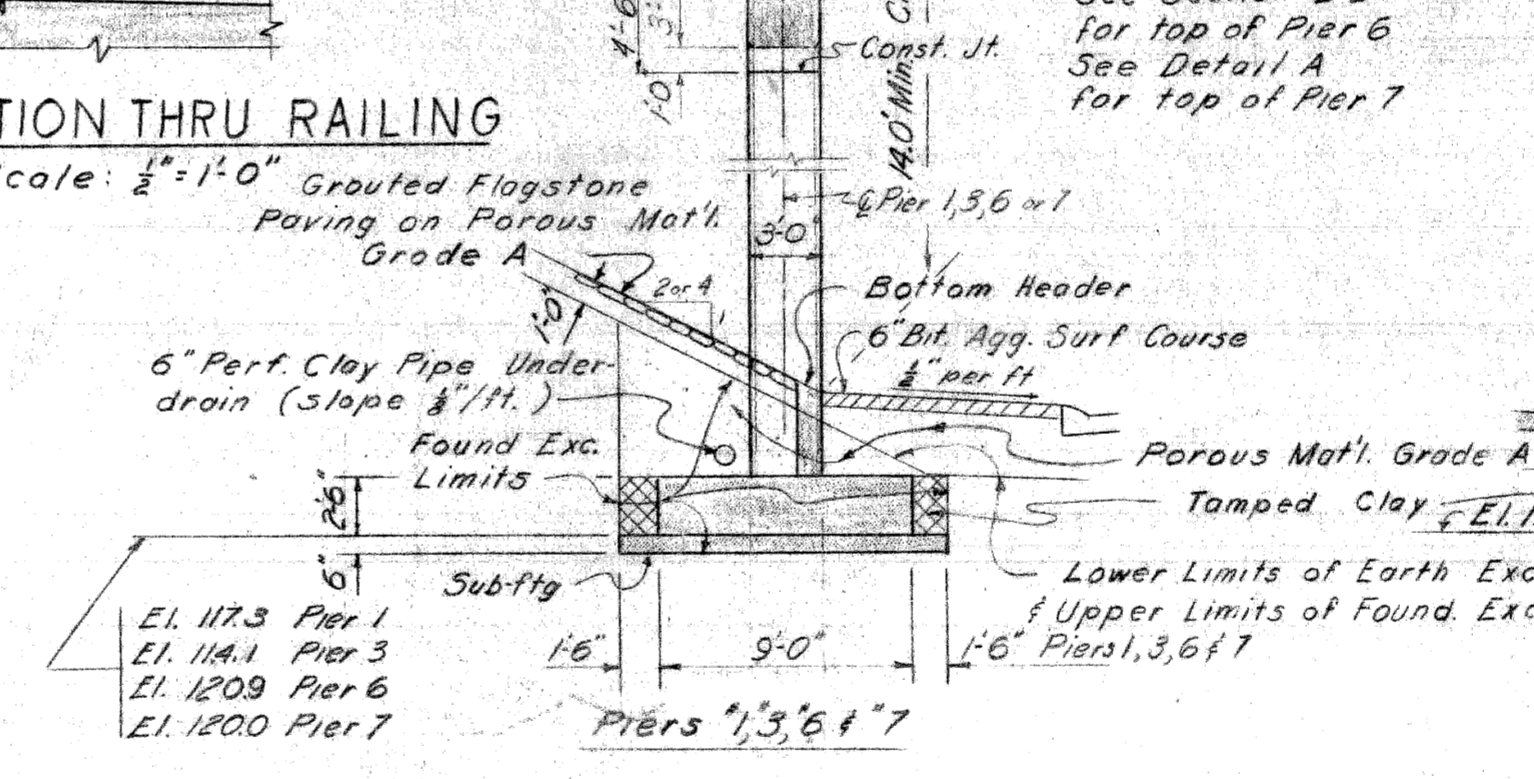
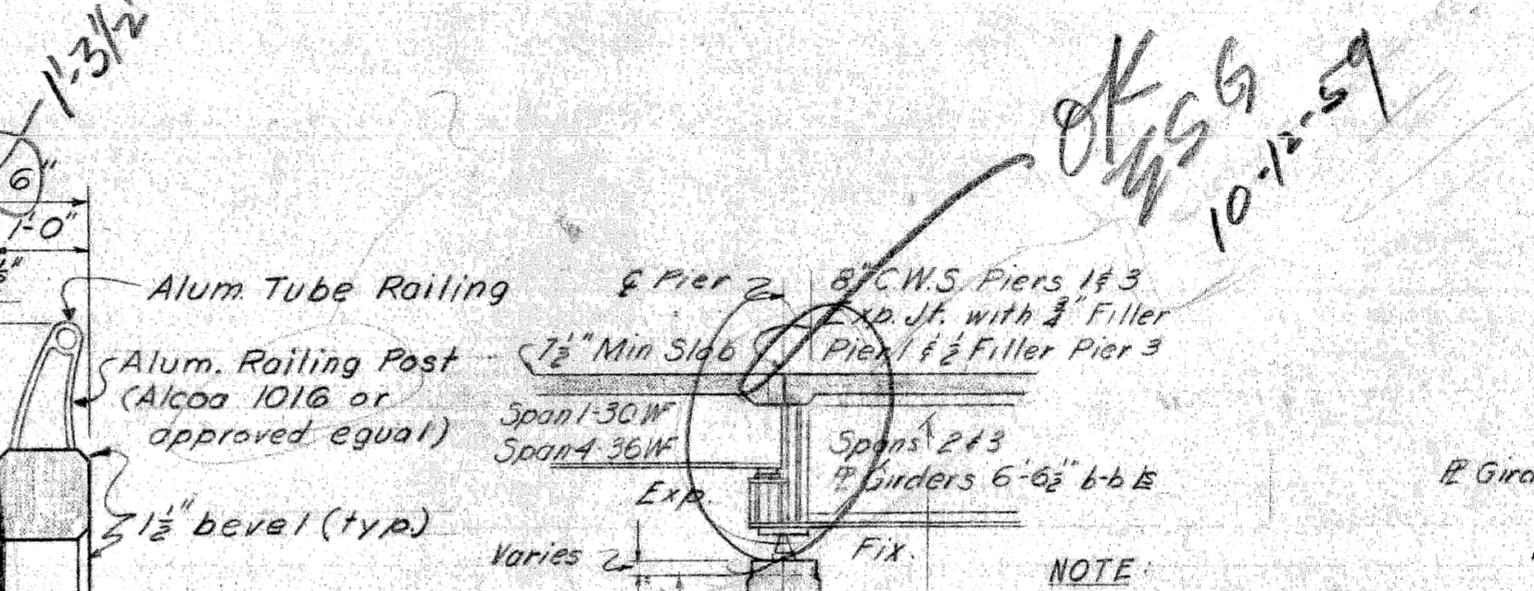
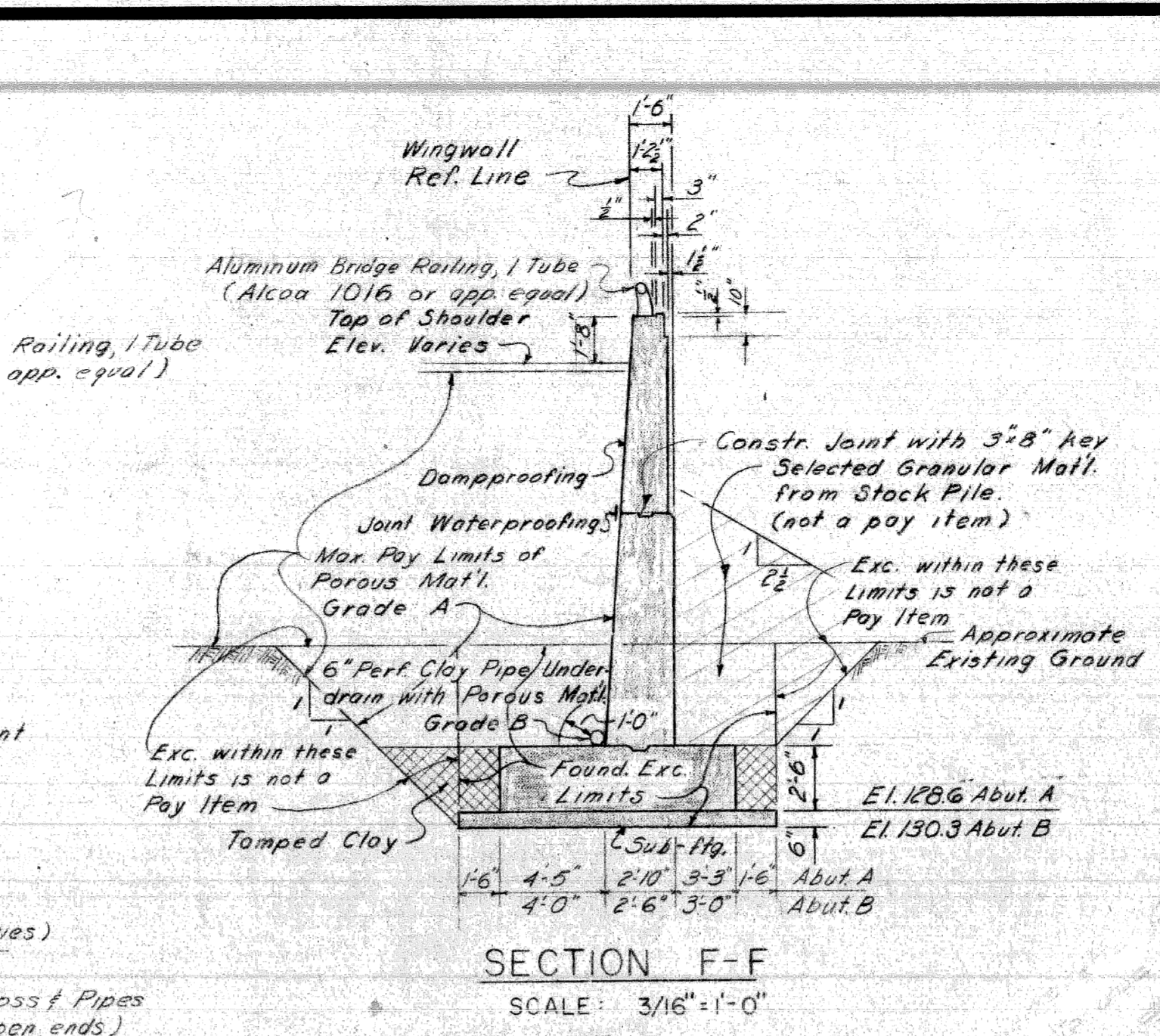








**NOTE**  
Superstructure dimensions are perpendicular to the bridge reference line and substructure dimensions are along Substructure reference line for Sections A-A and B-B



Work this sheet with sheets 5 and 6

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

**MICHIGAN STATE HIGHWAY DEPARTMENT**  
CHRYSLER-FISHER INTERCHANGE  
NORTH BND. TO WEST BND. TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**GENERAL PLAN OF STRUCTURE**

RECOMMENDED FOR APPROVAL: R.H. Hildebrand, Sr. Assoc. Engr. - Design  
JOB NO. PW897B(2)

REVISIONS: NO. DESCRIPTION DATE BY

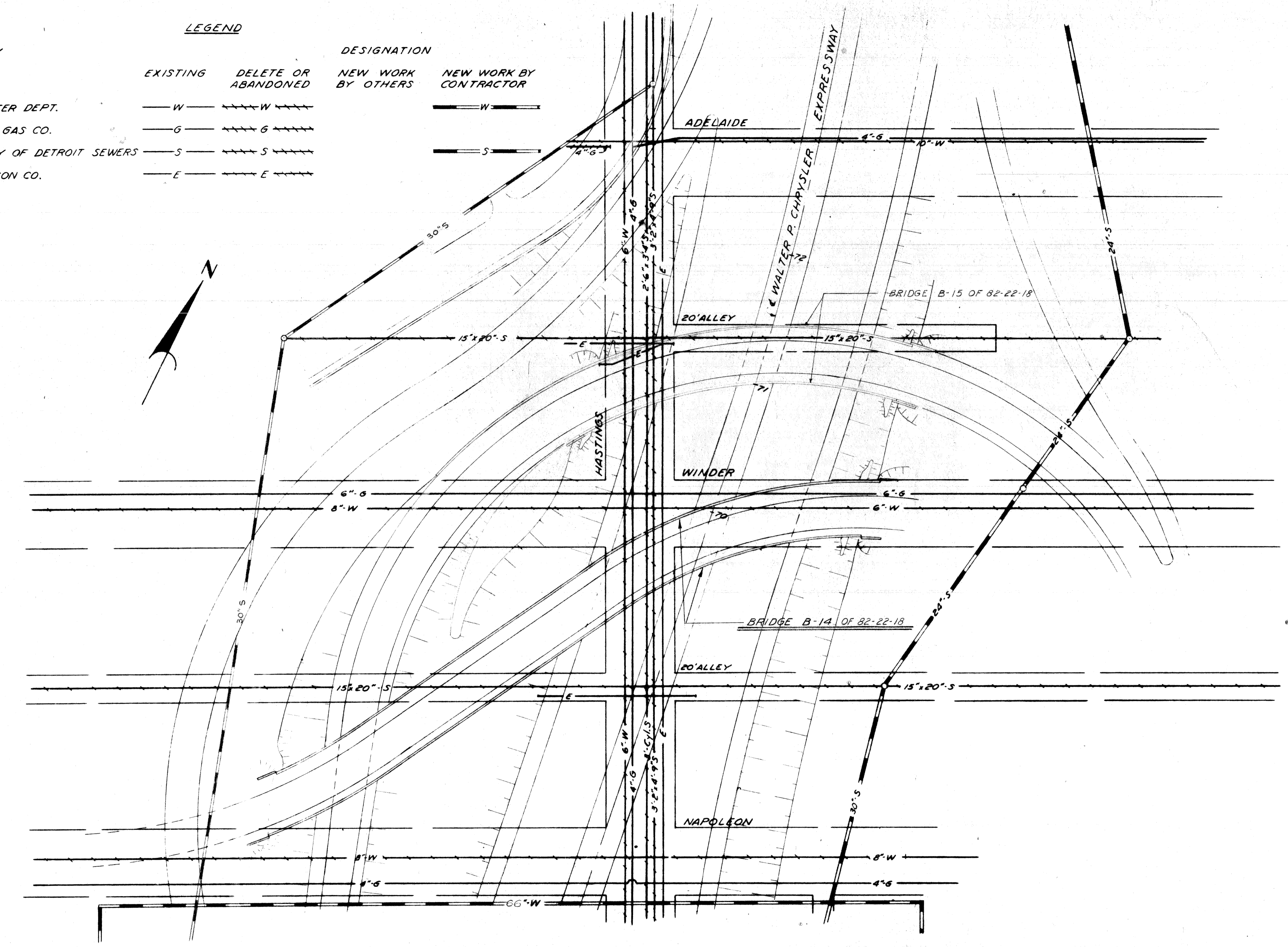
APPROVED: \_\_\_\_\_ COORDINATING ENGINEER  
APPROVED: \_\_\_\_\_ ENGINEER OF DESIGN - CONSULTANTS

SHEET 13 OF 13

**B14 OF 82-22-18**



UTILITY	LEGEND		DESIGNATION	
	EXISTING	DELETE OR ABANDONED	NEW WORK BY OTHERS	NEW WORK BY CONTRACTOR
DETROIT WATER DEPT.	— W —	--- W ---	— W —	— W —
MICH. CONS. GAS CO.	— G —	--- G ---	— S —	— S —
EXPWY & CITY OF DETROIT SEWERS	— S —	--- S ---	— S —	— S —
DETROIT EDISON CO.	— E —	--- E ---	— S —	— S —



SITUATION PLAN  
SCALE: 1" = 40'

Bridge Pier Footings and utility alterations are included in package contract for Control Section 82251-30202

PRELIMINARY PLAN "A"  
Sept. 14, 1959  
CONTROL SECTION 82251-30202

**MICHIGAN STATE HIGHWAY DEPARTMENT**

CHRYSLER-FISHER INTERCHANGE  
NORTHBOUND TO WEST BND TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT  
**EXISTING UTILITIES AND  
PROPOSED ALTERATIONS**

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

RECOMMENDED FOR APPROVAL  
*R. H. Hecker*  
Sr. Assoc. Engr. - Design

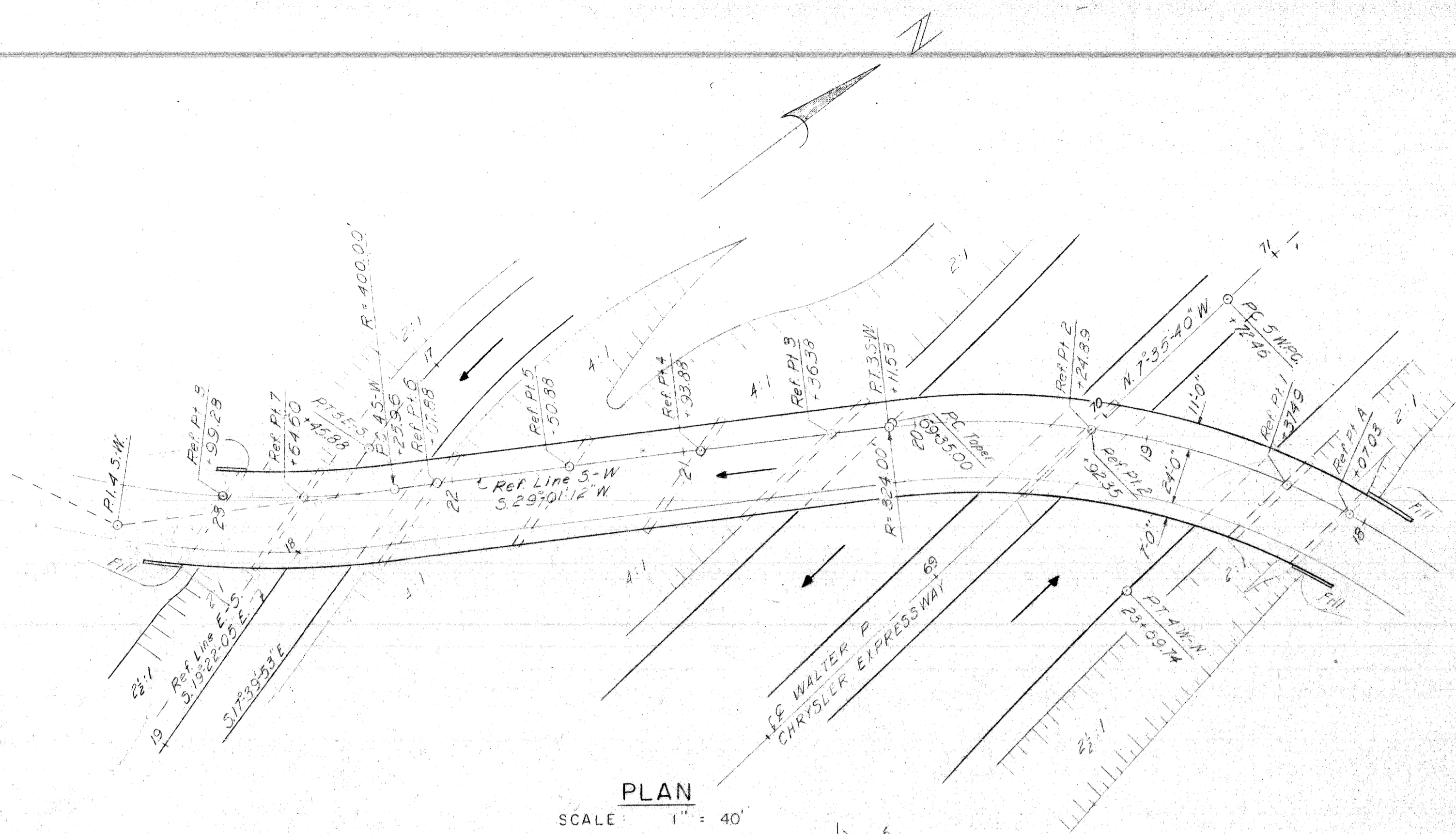
NO.	DESCRIPTION	DATE	BY

JOB No.  
PW897B(2)

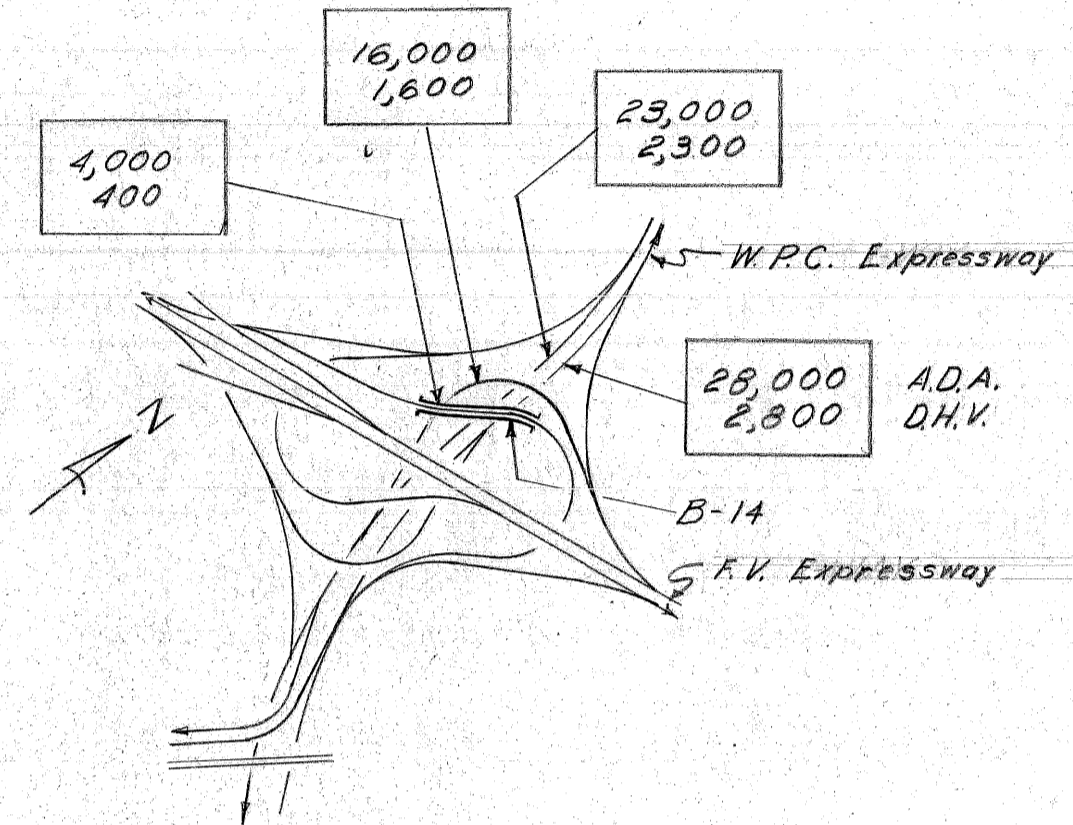
CITY OF DETROIT	
DESIGNED BY	C. Lederer 9/59
DRAWN BY	R. Harris 9/59
CHECKED BY	John T. ... 5/59
DATE	8 2

**B14 OF 82-22-18**

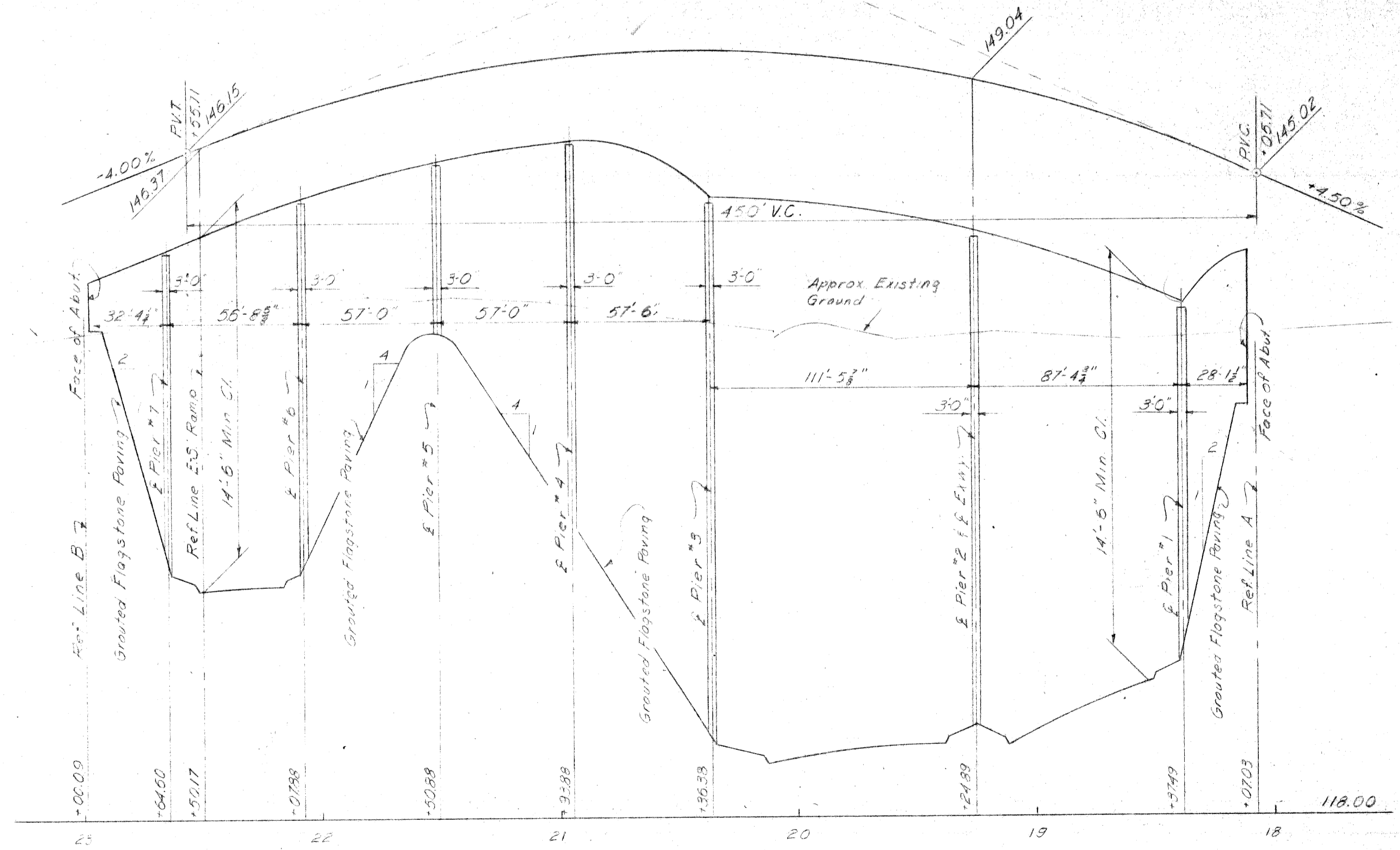




PLAN  
SCALE: 1" = 40'

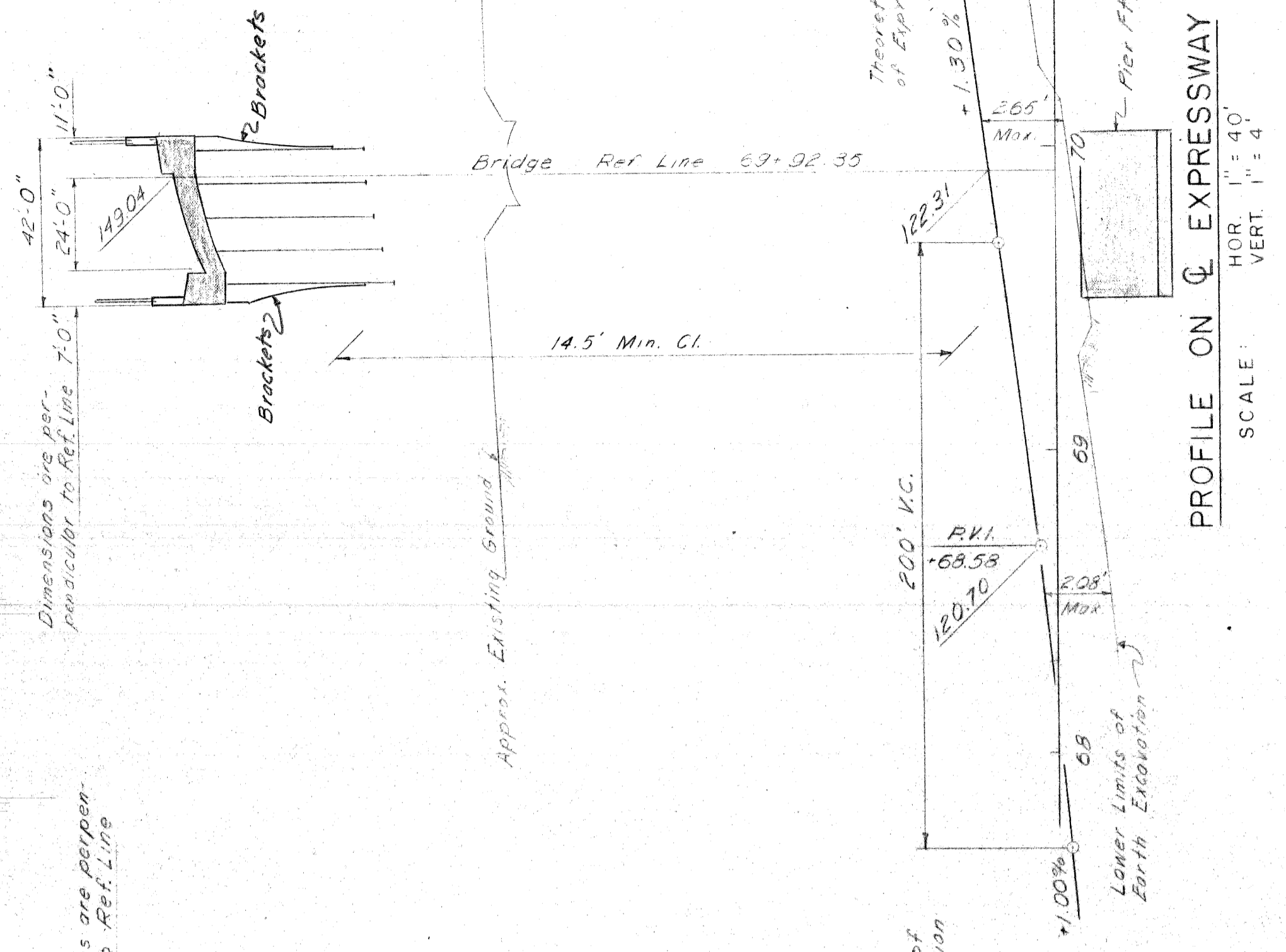


Estimated Traffic - 1975  
TRAFFIC COUNT

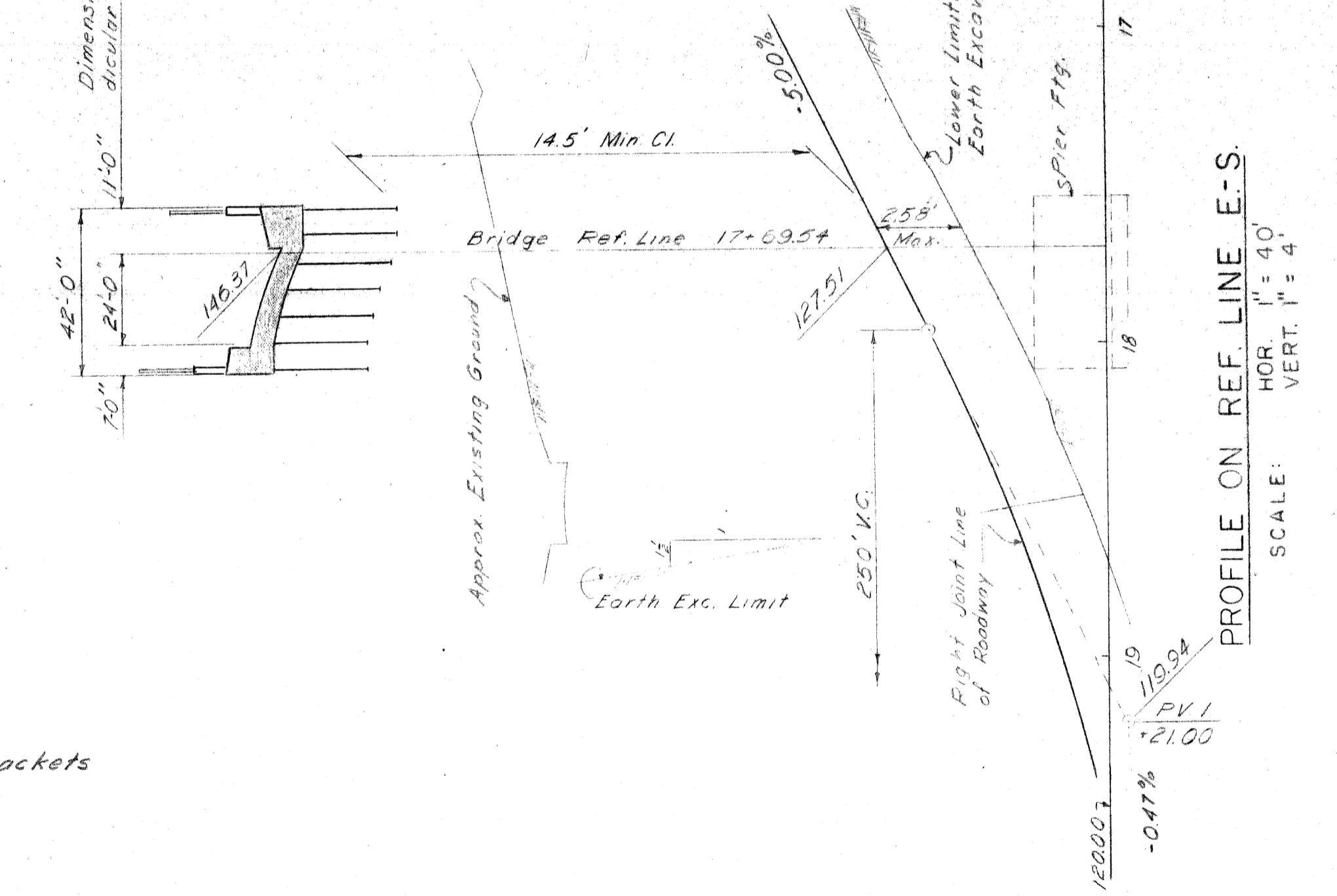


PROFILE ON REF. LINE BRIDGE B-14

SCALE: HOR. 1" = 40'  
VERT. 1" = 4'



PROFILE ON Q EXPRESSWAY  
SCALE: HOR. 1" = 40'  
VERT. 1" = 4'



PROFILE ON REF. LINE E-S  
SCALE: HOR. 1" = 40'  
VERT. 1" = 4'

Scheme No 2 - Brackets

CONTROL SECTION 82251-30202

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

RECOMMENDED FOR APPROVAL

REVISION

NO.	DESCRIPTION	DATE	BY

MICHIGAN STATE HIGHWAY DEPARTMENT

CHRYSLER-FISHER INTERCHANGE  
SOUTH TO WEST TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

CITY OF DETROIT

GENERAL DRAWING

JOB No. PW897B(2)

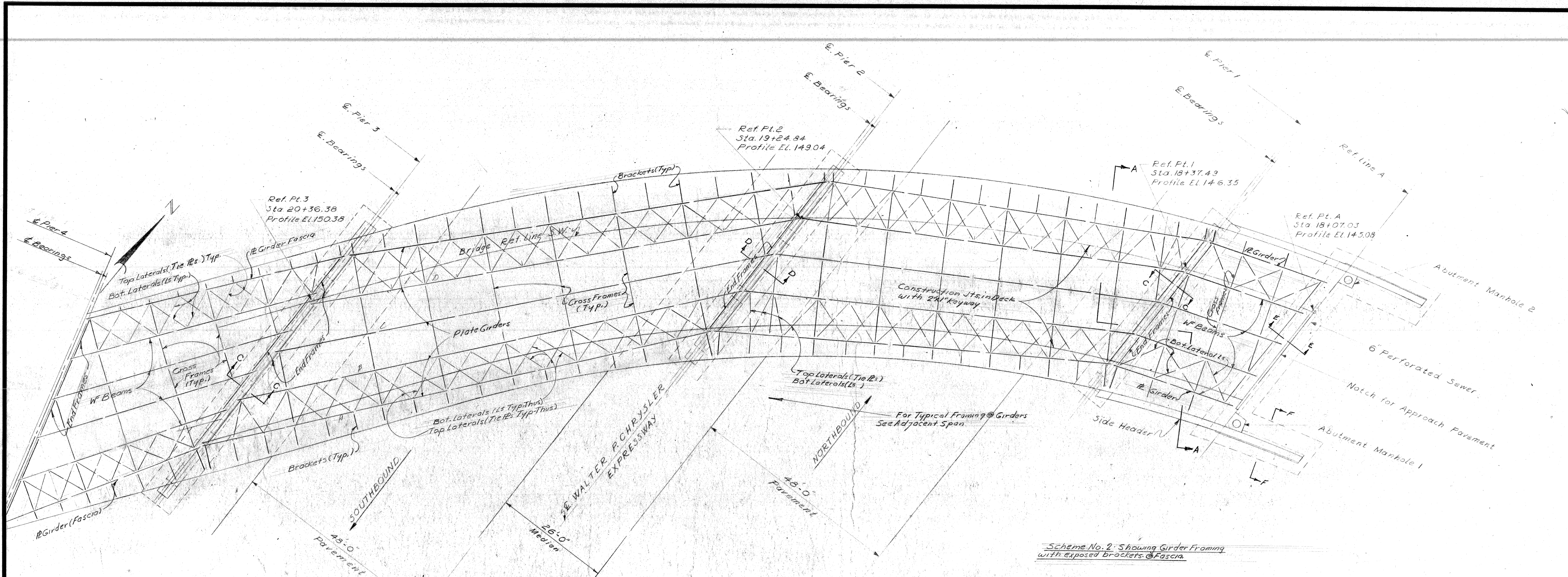
APPROVED \_\_\_\_\_ COORDINATING ENGINEER

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

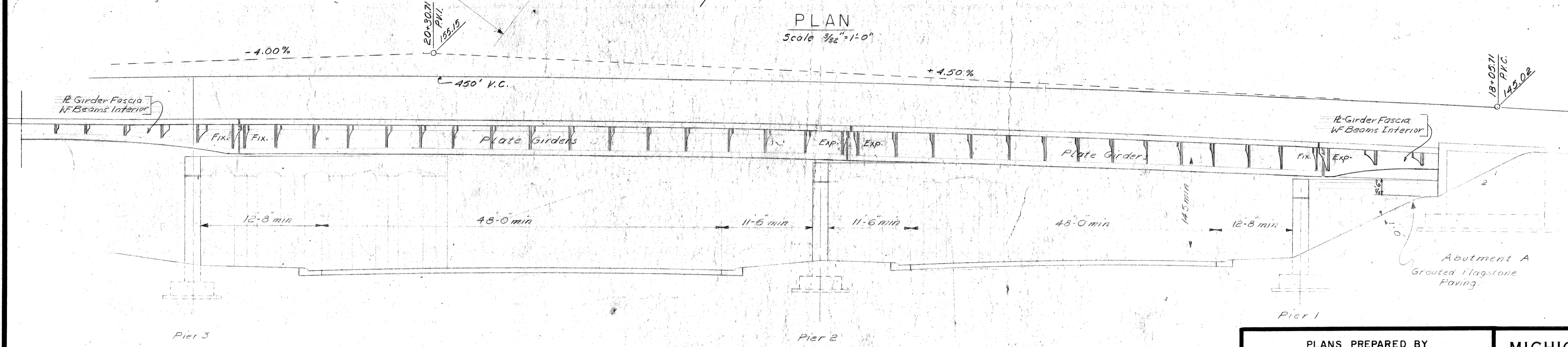
SHEET 1 OF 1

BI4 OF 82-22-18





Scheme No. 2 - Showing Girder Framing with exposed brackets @ Fascia.



CONTROL SECTION 82251-30202

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

RECOMMENDED FOR APPROVAL \_\_\_\_\_  
Sr. Assoc. Engr. - Design

JOB No.  
PW897B(2)

NO.	REVISIONS	DATE	BY

MICHIGAN STATE HIGHWAY DEPARTMENT

CHRYSLER-FISHER INTERCHANGE  
SOUTH TO WEST TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

GENERAL PLAN OF STRUCTURE

CITY OF DETROIT

SQUAD BOSS \_\_\_\_\_  
DRAWN BY O. Gencos  
TRACED BY O. Gencos  
CHECKED BY \_\_\_\_\_

APPROVED \_\_\_\_\_  
COORDINATING ENGINEER

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

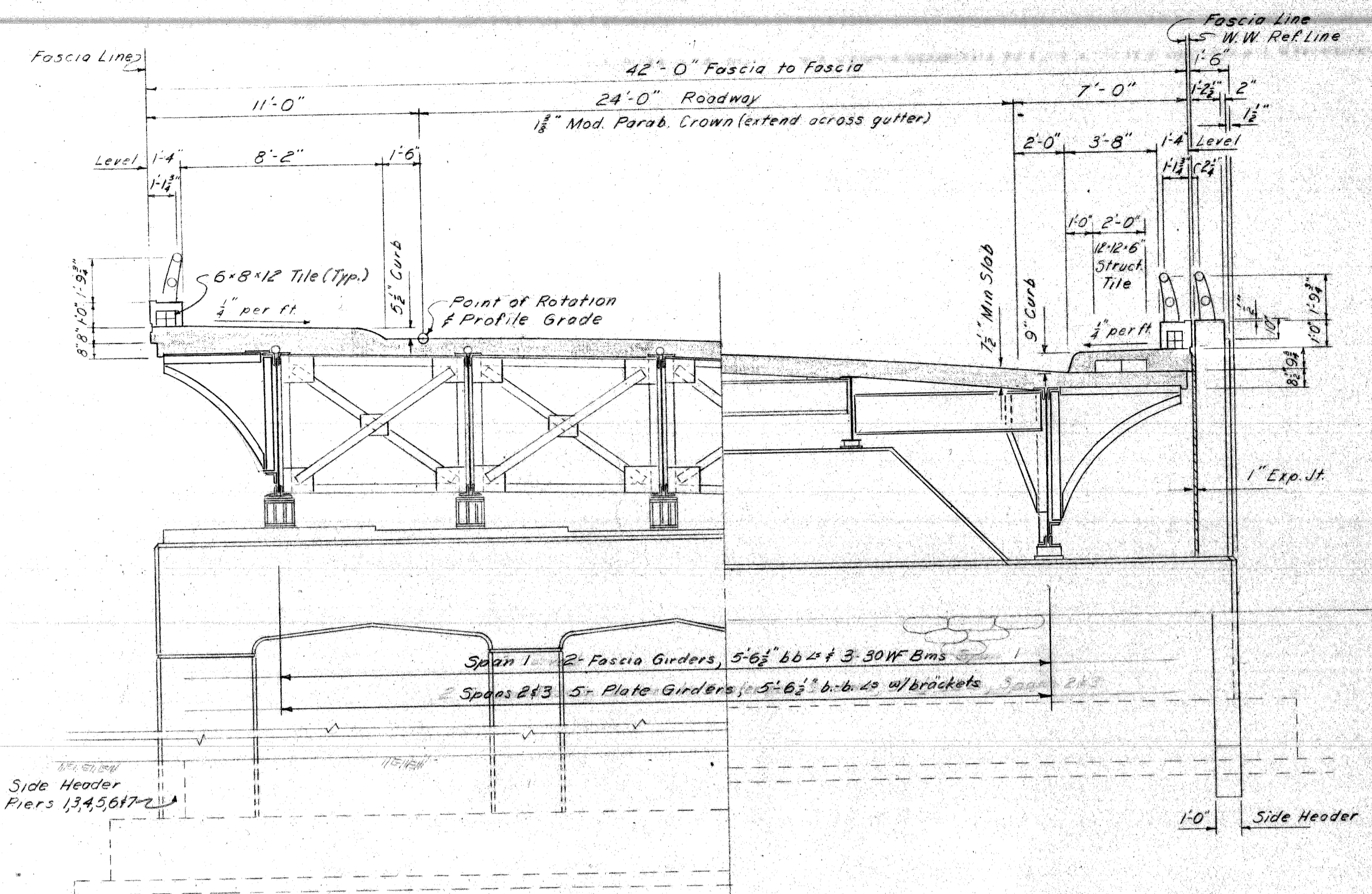
SHEET 2 OF 4

B14 OF 82-22-18

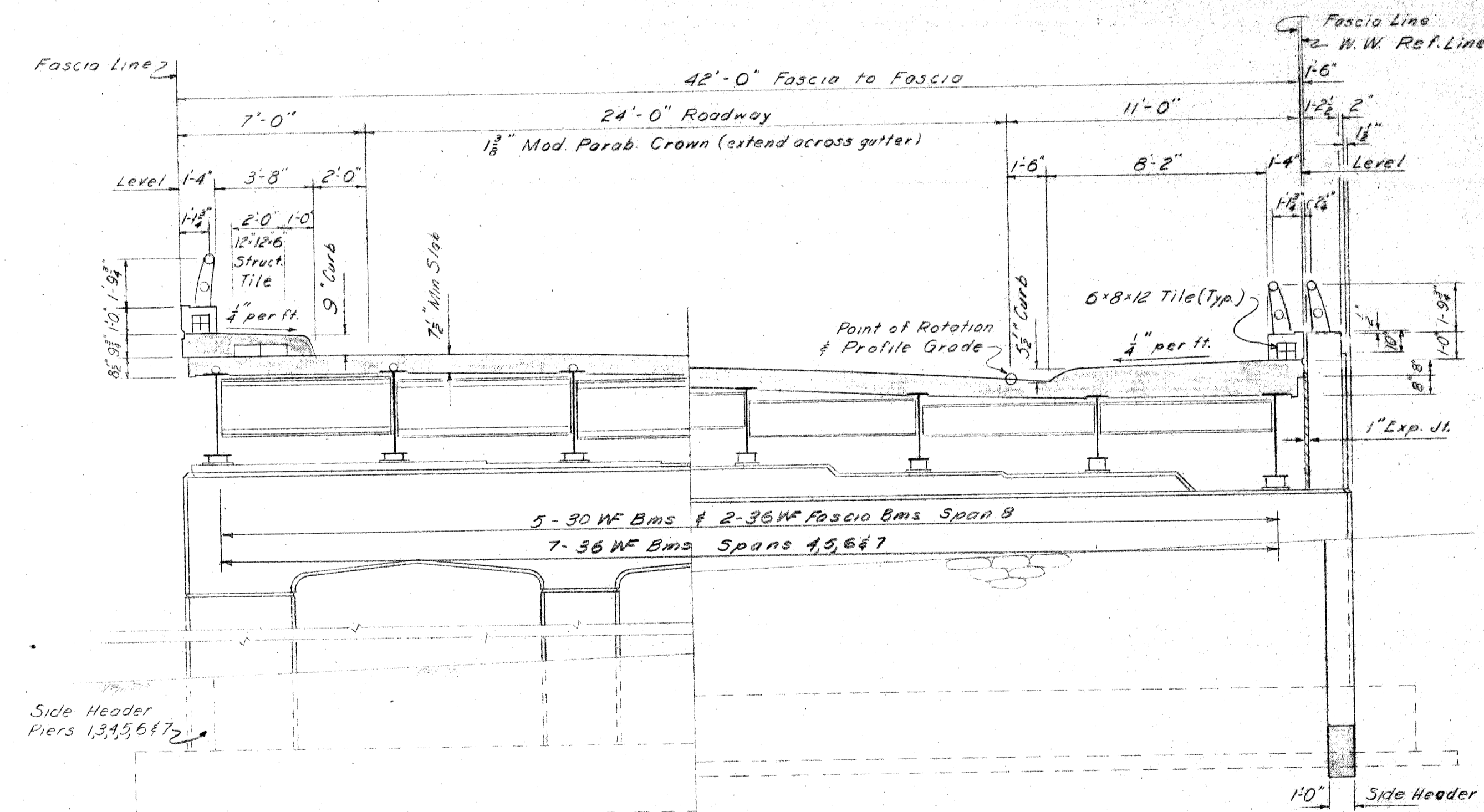




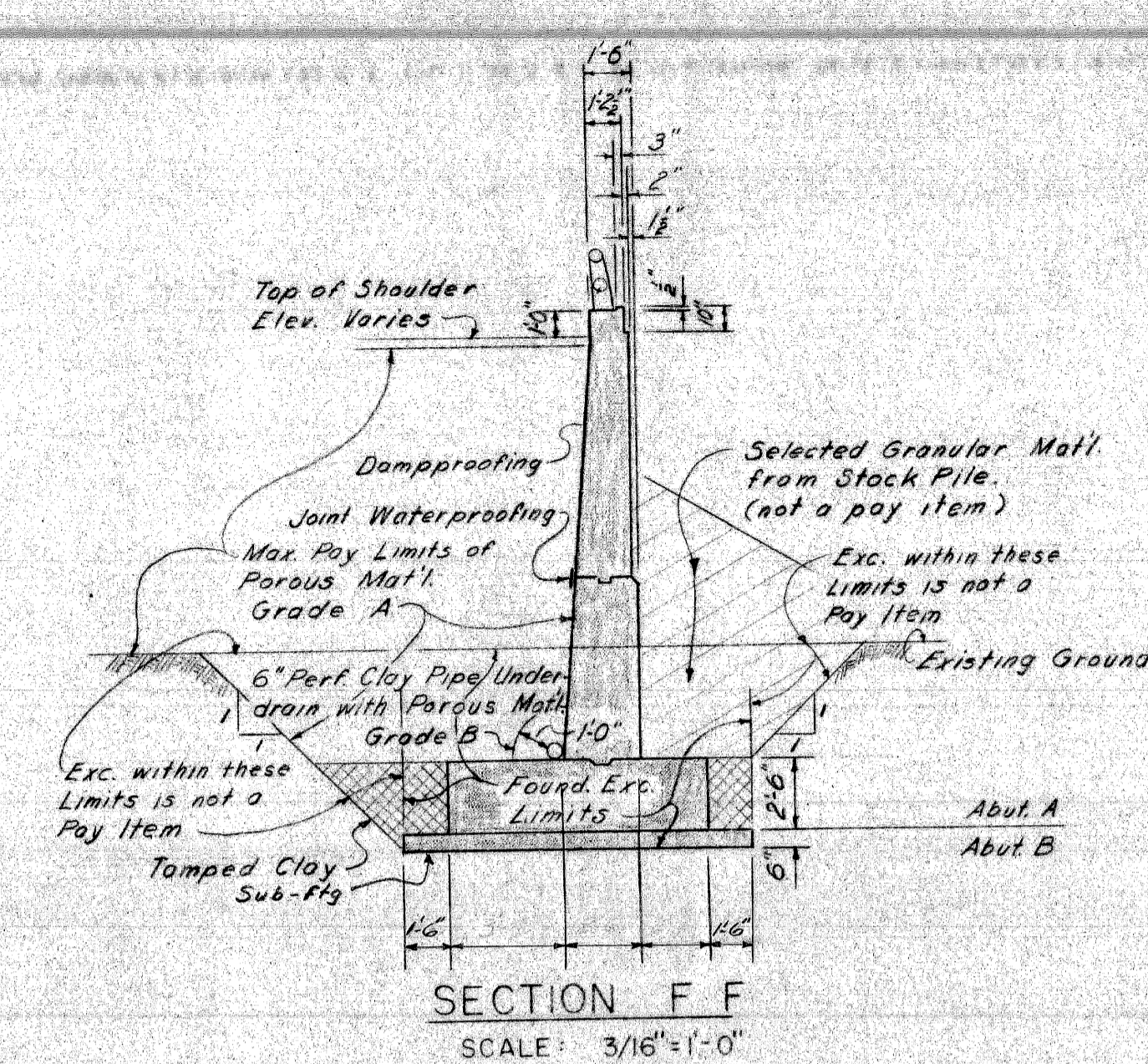




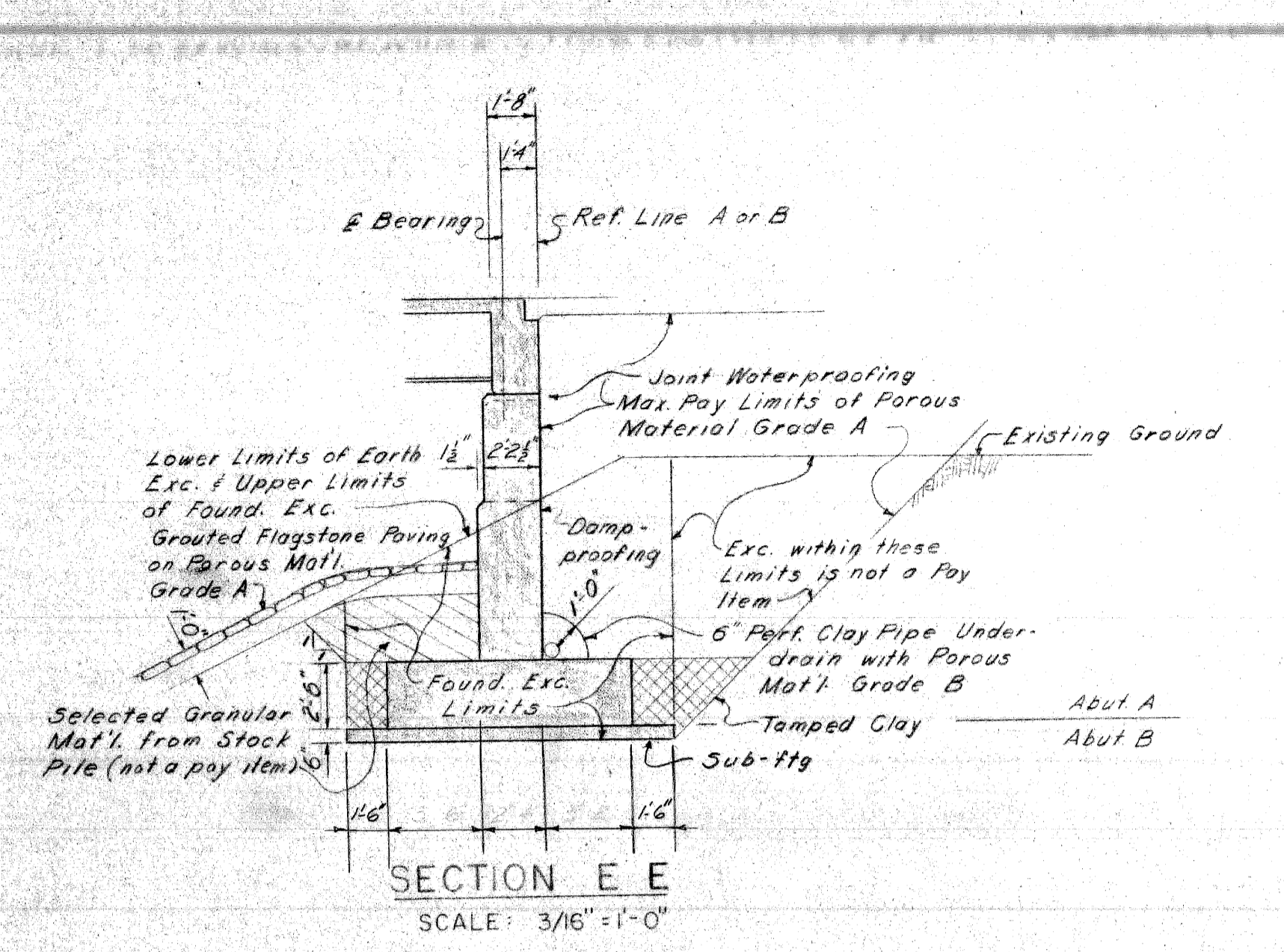
SECTION A A  
SCALE: 1/4" = 1'-0"



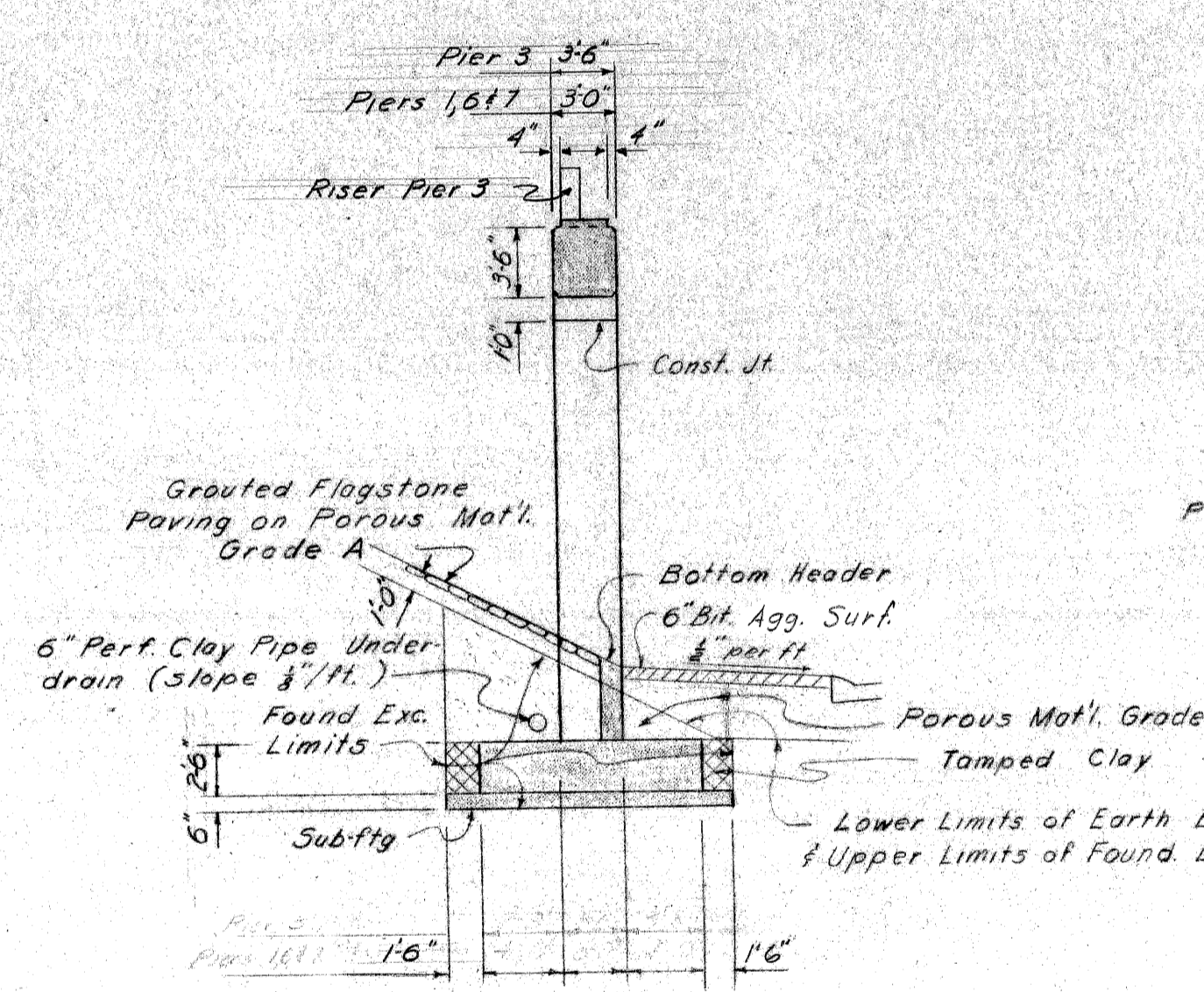
SECTION B B  
SCALE: 1/4" = 1'-0"



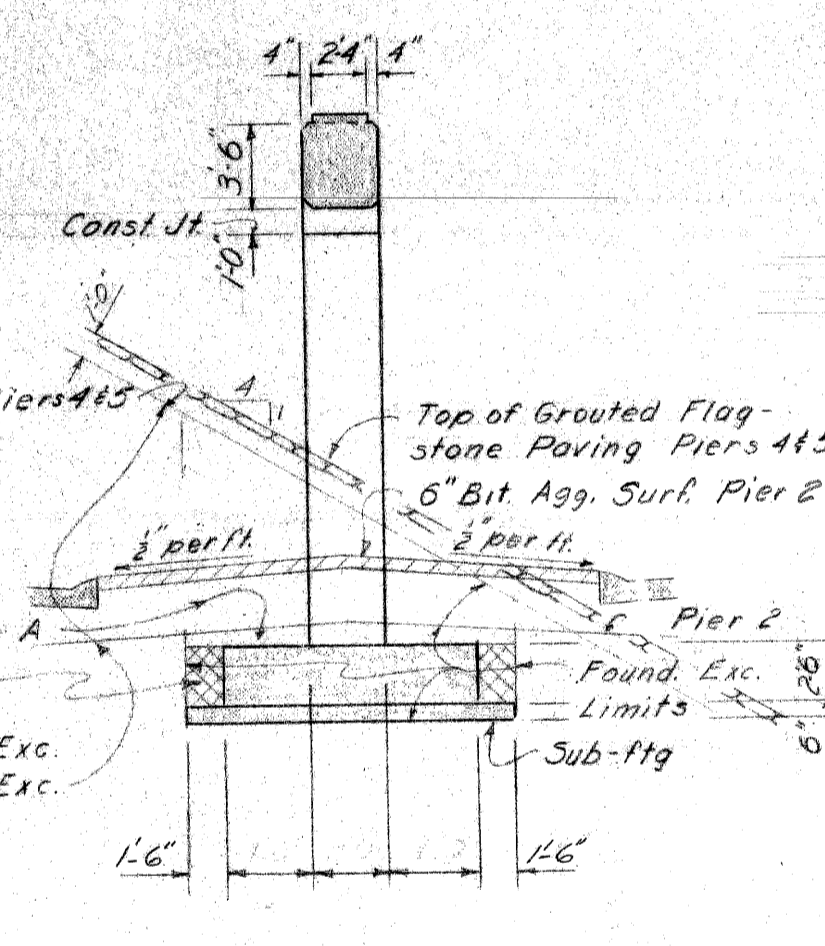
SECTION F F  
SCALE: 3/16" = 1'-0"



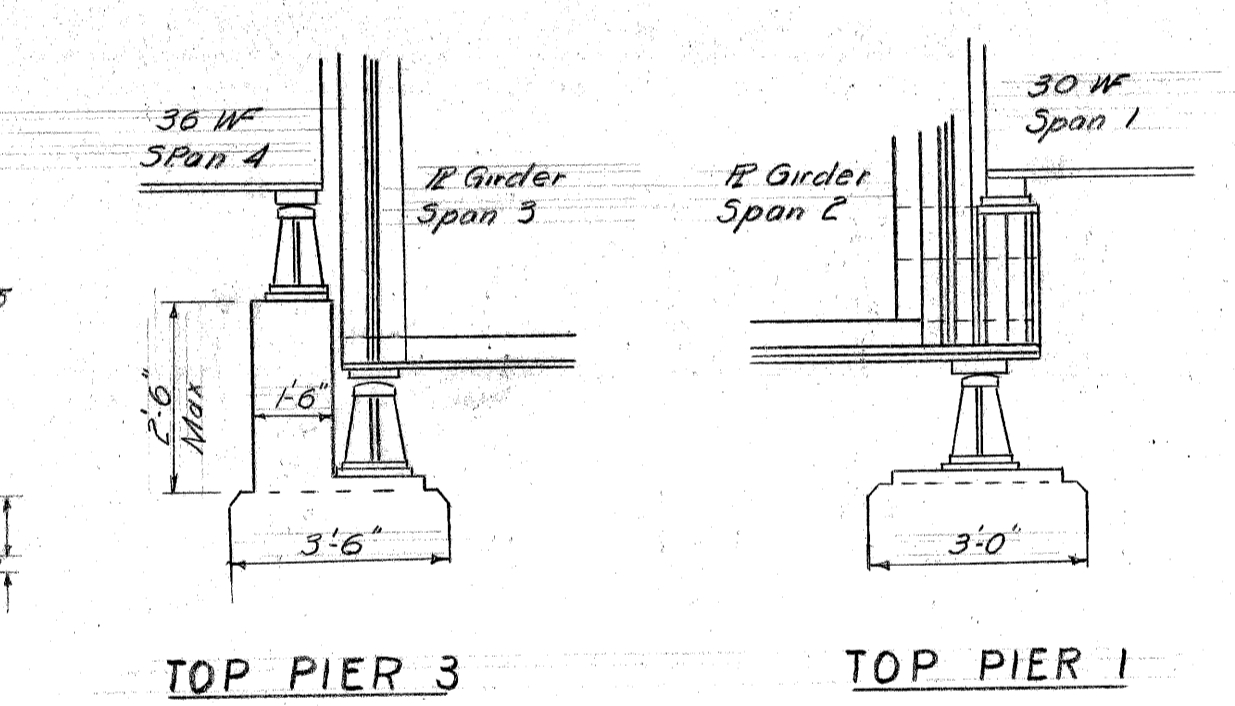
SECTION E E  
SCALE: 3/16" = 1'-0"



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

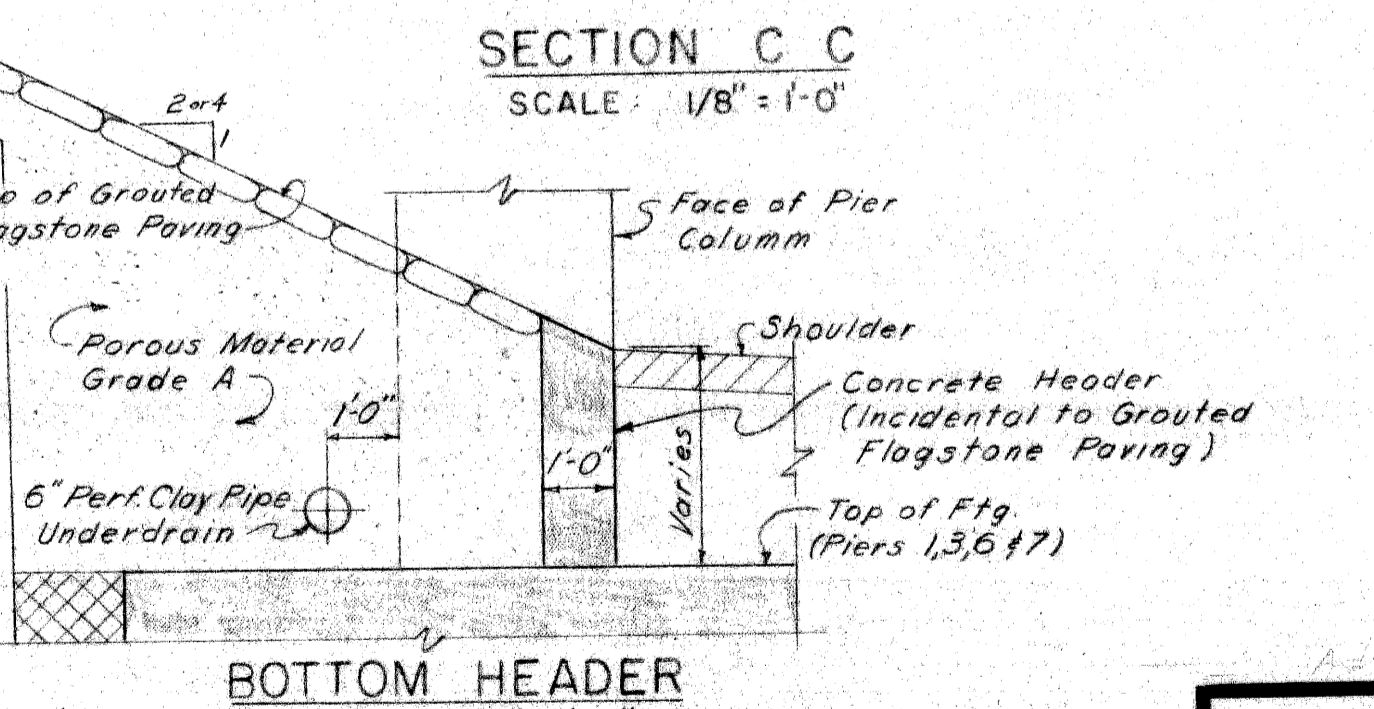


SECTION D D  
SCALE: 1/8" = 1'-0"

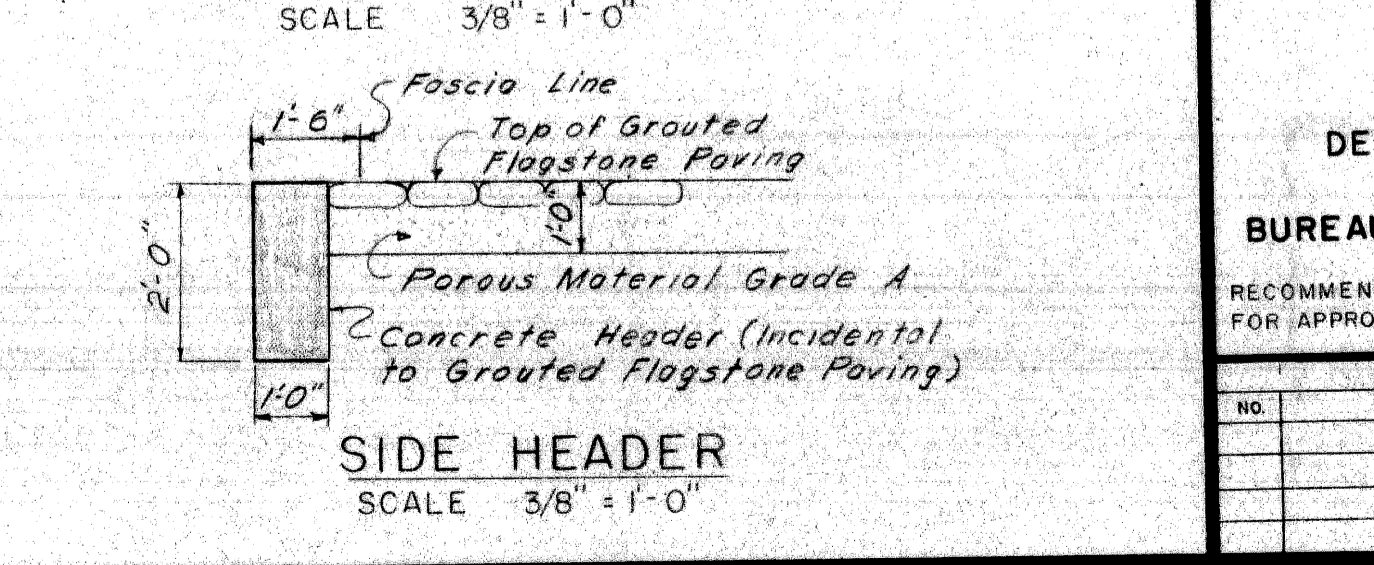


TOP PIER 3

TOP PIER 1



BOTTOM HEADER  
SCALE: 3/8" = 1'-0"



SIDE HEADER  
SCALE: 3/8" = 1'-0"

Scheme No 2.-Framing with exposed brackets@Fascia.

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

RECOMMENDED FOR APPROVAL: Sr. Assoc. Engr. - Design

JOB NO. PW897B(2)

NO.	REVISIONS DESCRIPTION	DATE	BY

CONTROL SECTION 82251-30202

MICHIGAN STATE HIGHWAY DEPARTMENT

CHRYSLER-FISHER INTERCHANGE  
SOUTH TO WEST TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

GENERAL PLAN OF STRUCTURE

APPROVED: COORDINATING ENGINEER

APPROVED: ENGINEER OF DESIGN - CONSULTANTS

CITY OF DETROIT

SQUAD BOSS: F. WATTS 3-59

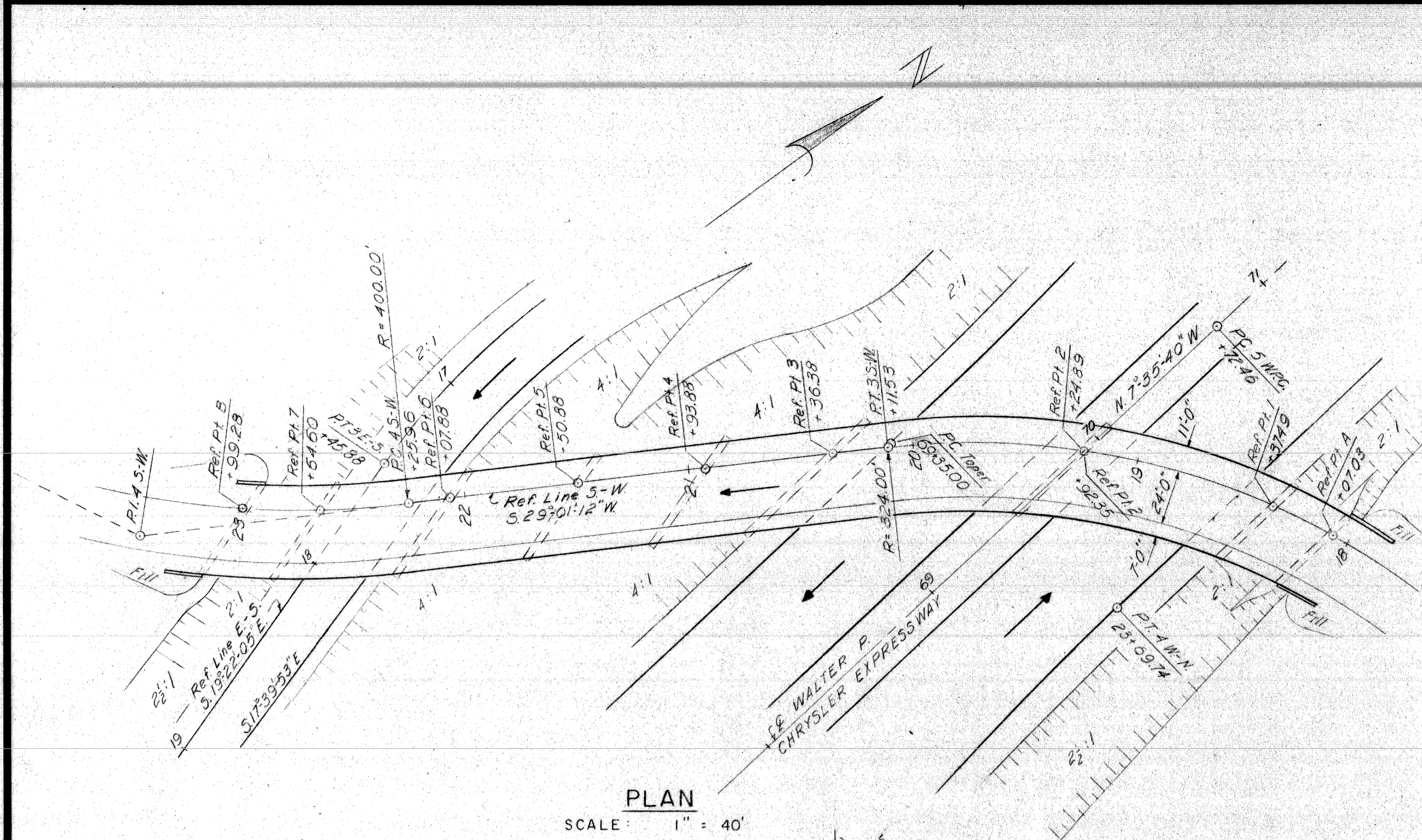
TRACED BY: F. WATTS

CHECKED BY: F. WATTS

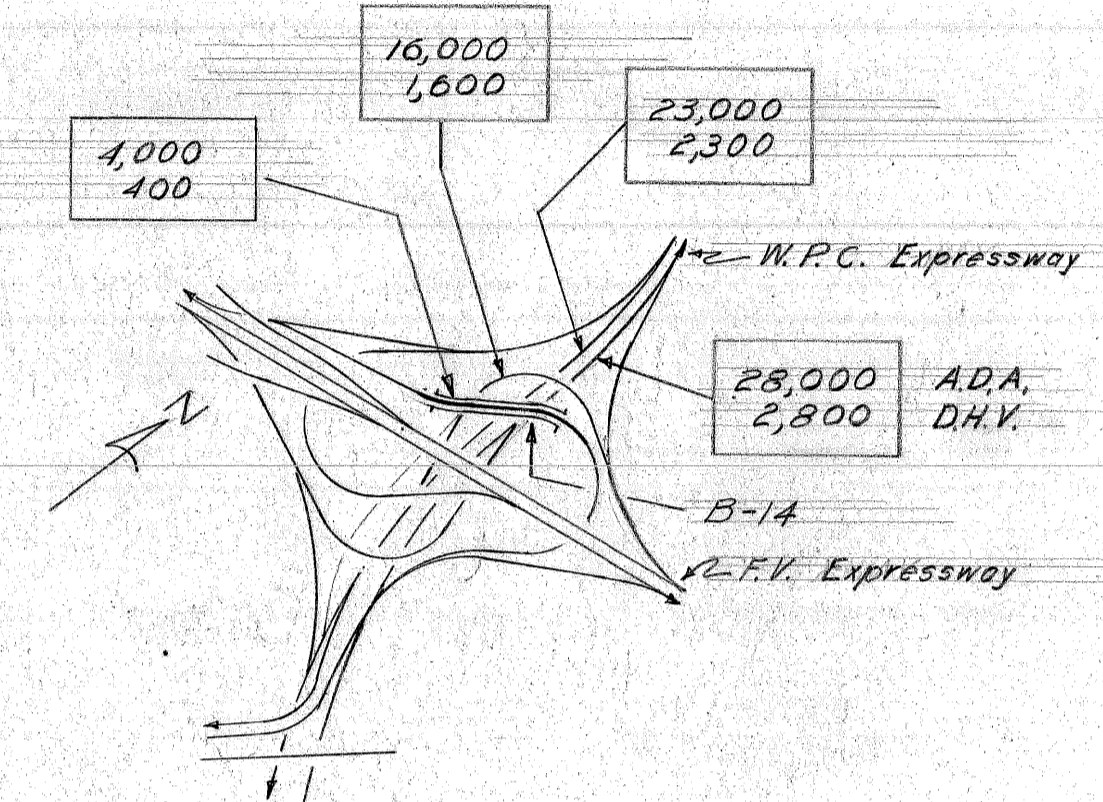
SHEET 4 OF 4

B14 OF 82-22-18

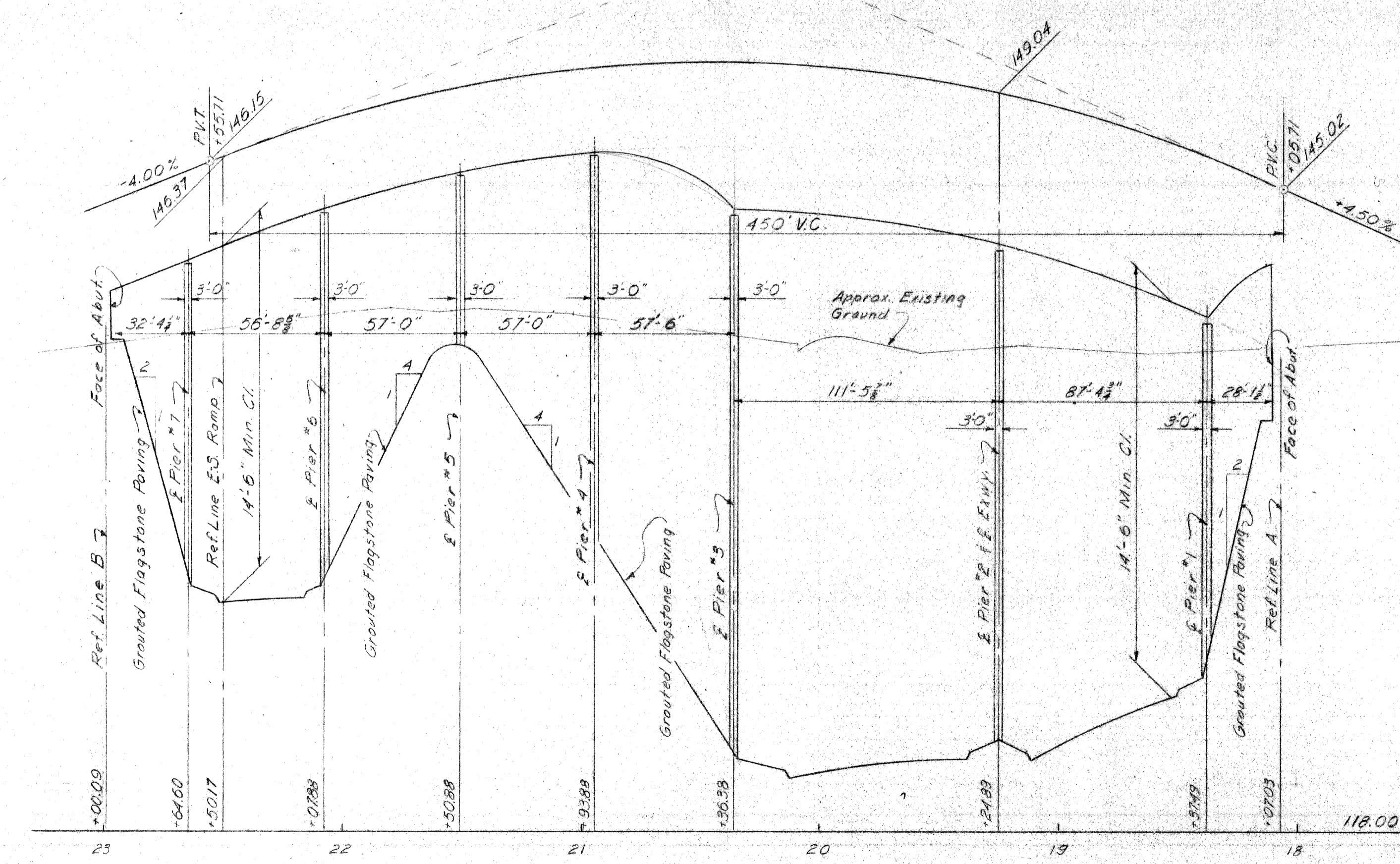




**PLAN**  
SCALE: 1" = 40'

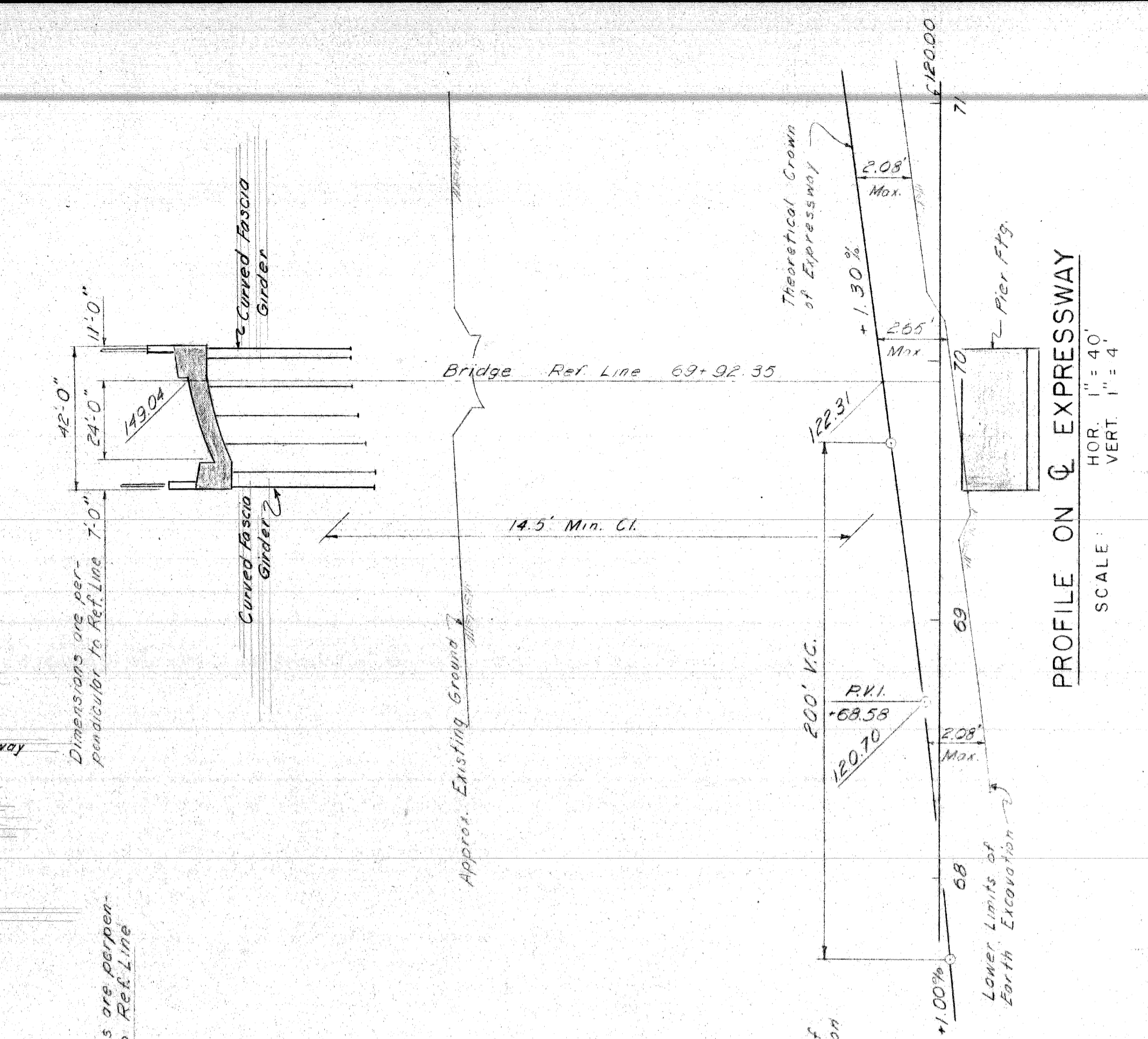


Estimated Traffic-1975  
**TRAFFIC COUNT**



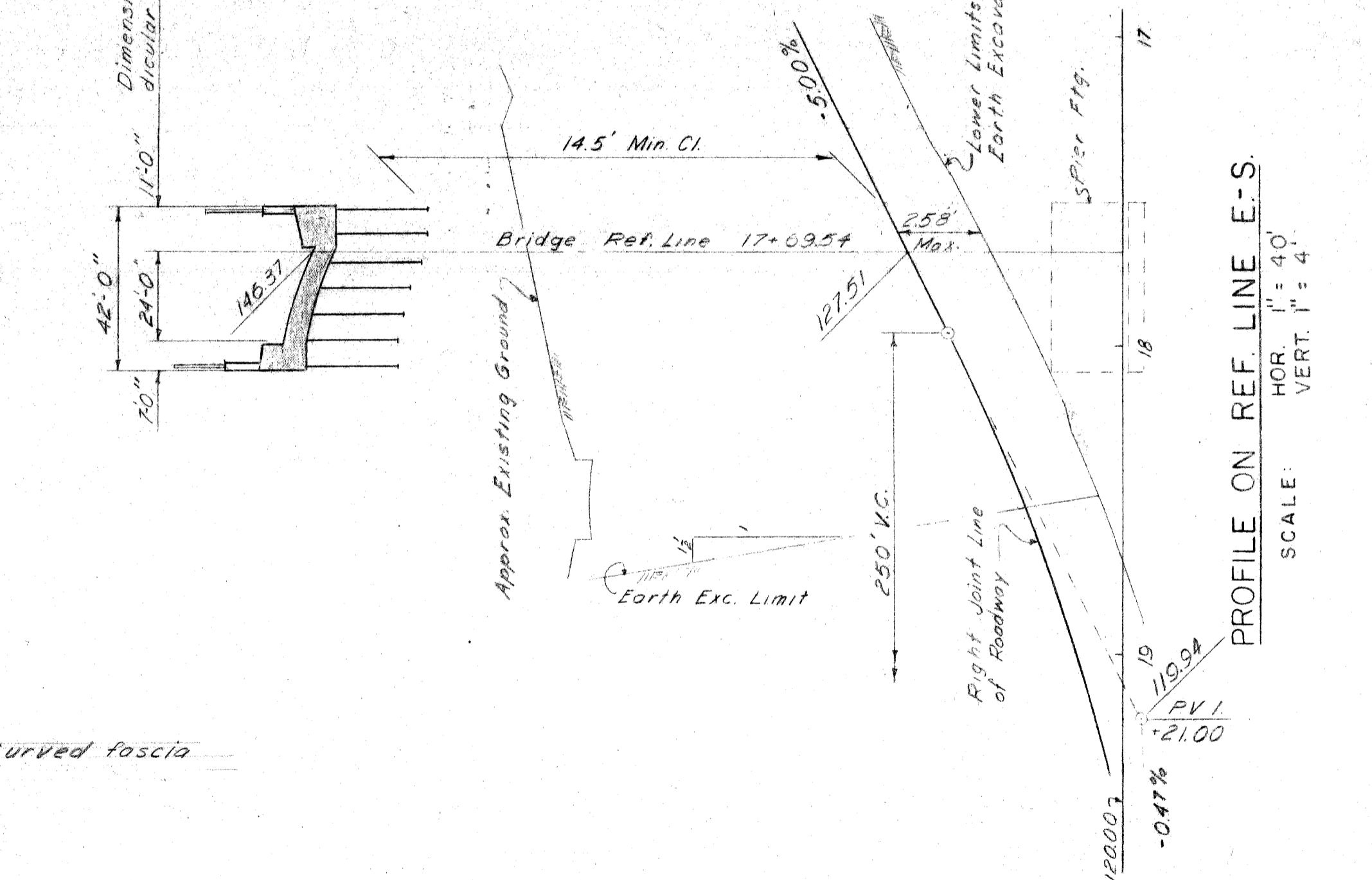
**PROFILE ON REF. LINE BRIDGE B-14**

SCALE: HOR. 1" = 40'  
VERT. 1" = 4'



**PROFILE ON EXPRESSWAY**

SCALE: HOR. 1" = 40'  
VERT. 1" = 4'



**PROFILE ON REF. LINE E-S**

SCALE: HOR. 1" = 40'  
VERT. 1" = 4'

Scheme No 1 - Curved fascia Girders

CONTROL SECTION 82251-30202

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

RECOMMENDED FOR APPROVAL: Sr. Assoc. Engr. - Design

JOB No. PW897B(2)

NO.	DESCRIPTION	DATE	BY

**MICHIGAN STATE HIGHWAY DEPARTMENT**

CHRYSLER-FISHER INTERCHANGE  
SOUTH TO WEST TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**GENERAL DRAWING**

CITY OF DETROIT

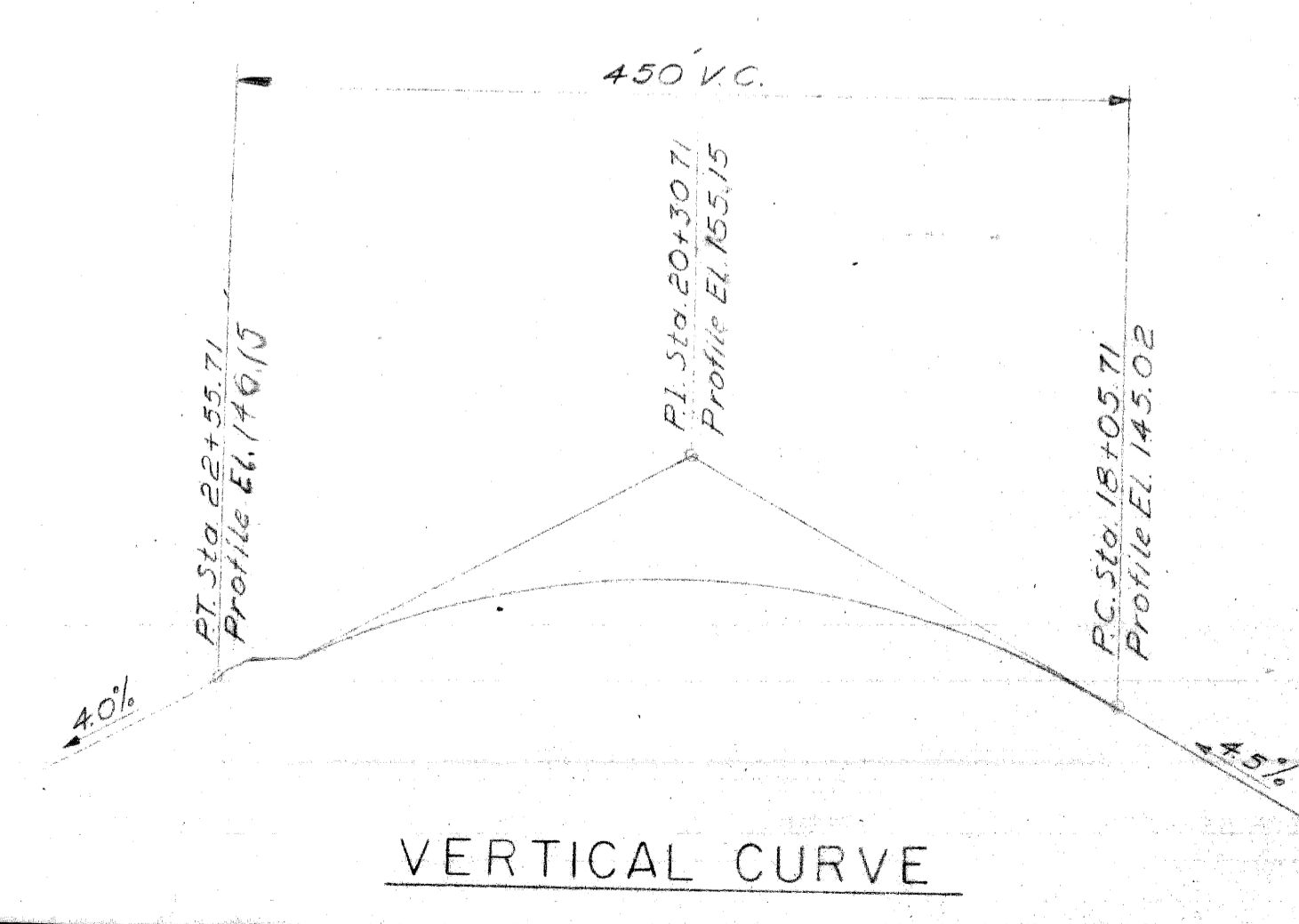
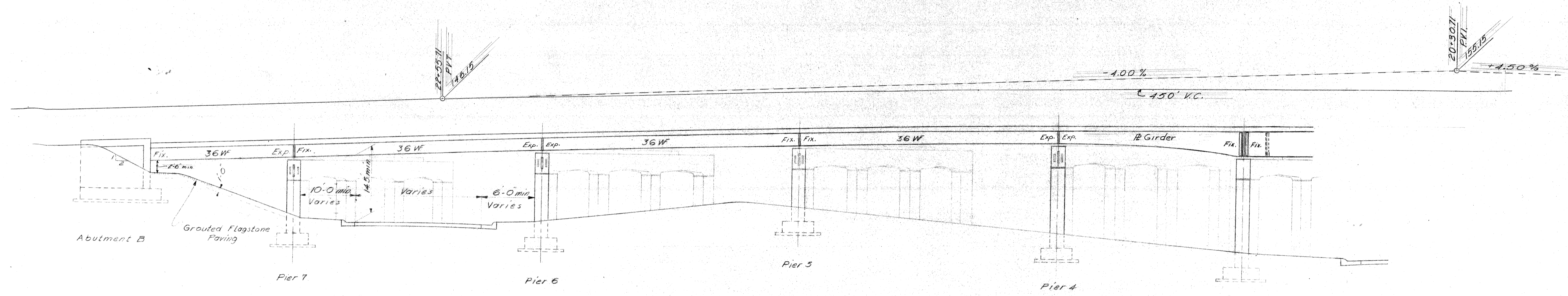
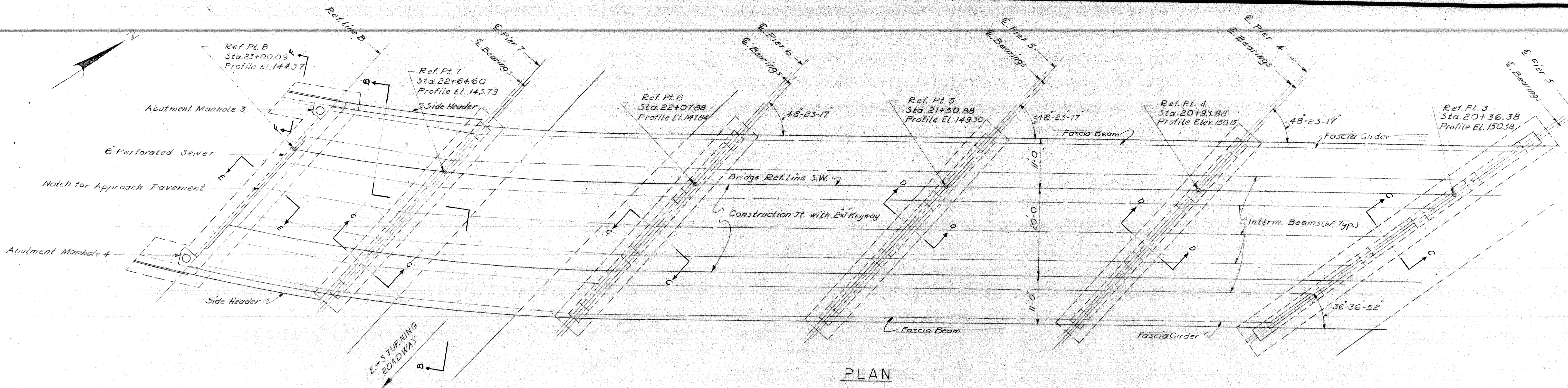
SQUAD BOSS	
DRAWN BY	F. Walters 3-53
TRACED BY	
CHECKED BY	
SHEET	1 OF 1

APPROVED: \_\_\_\_\_ COORDINATING ENGINEER

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

**B14 OF 82-22-18**



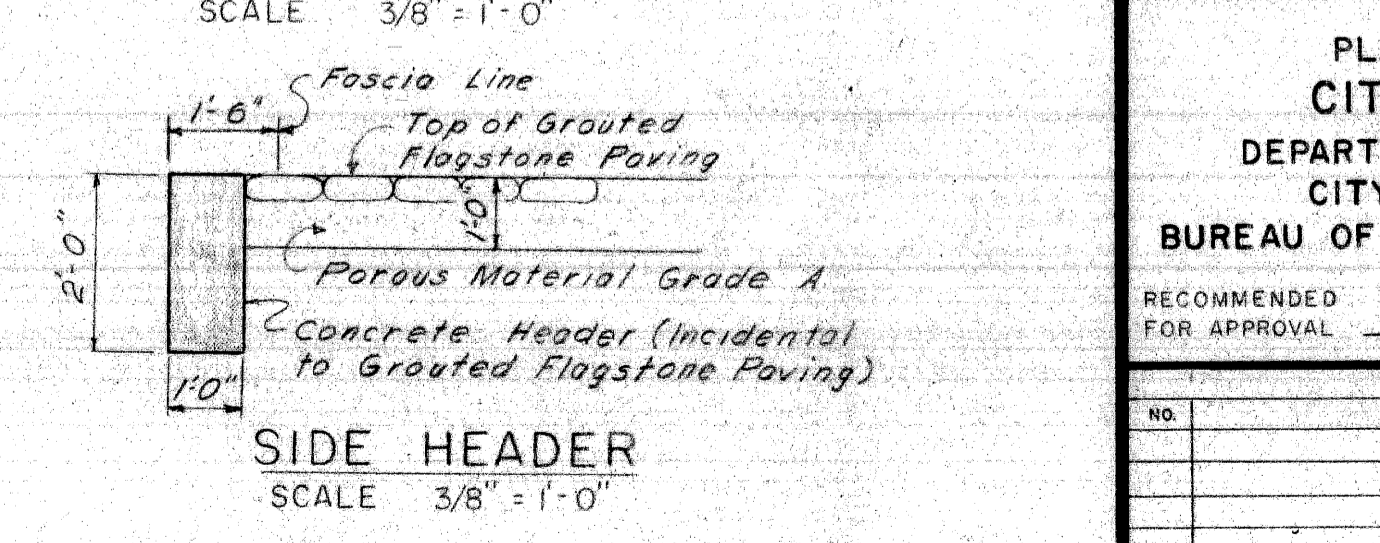
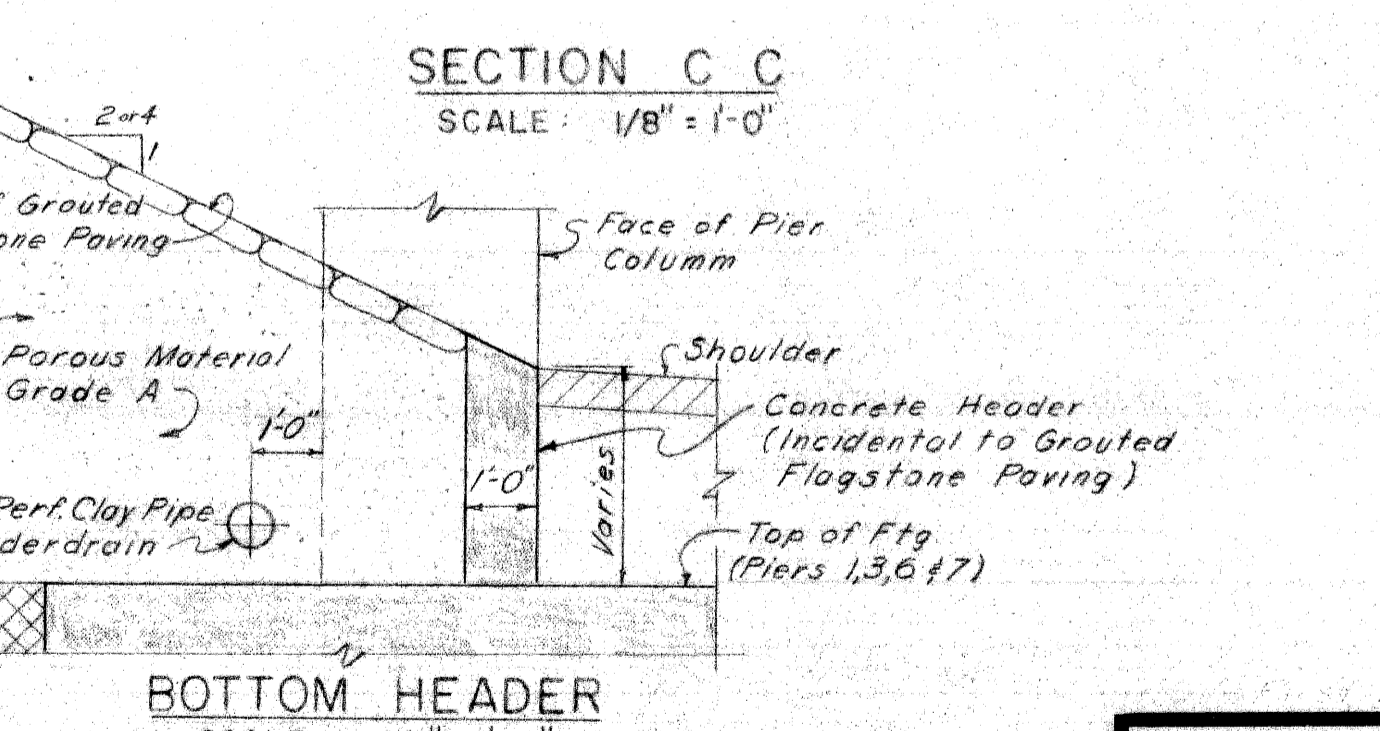
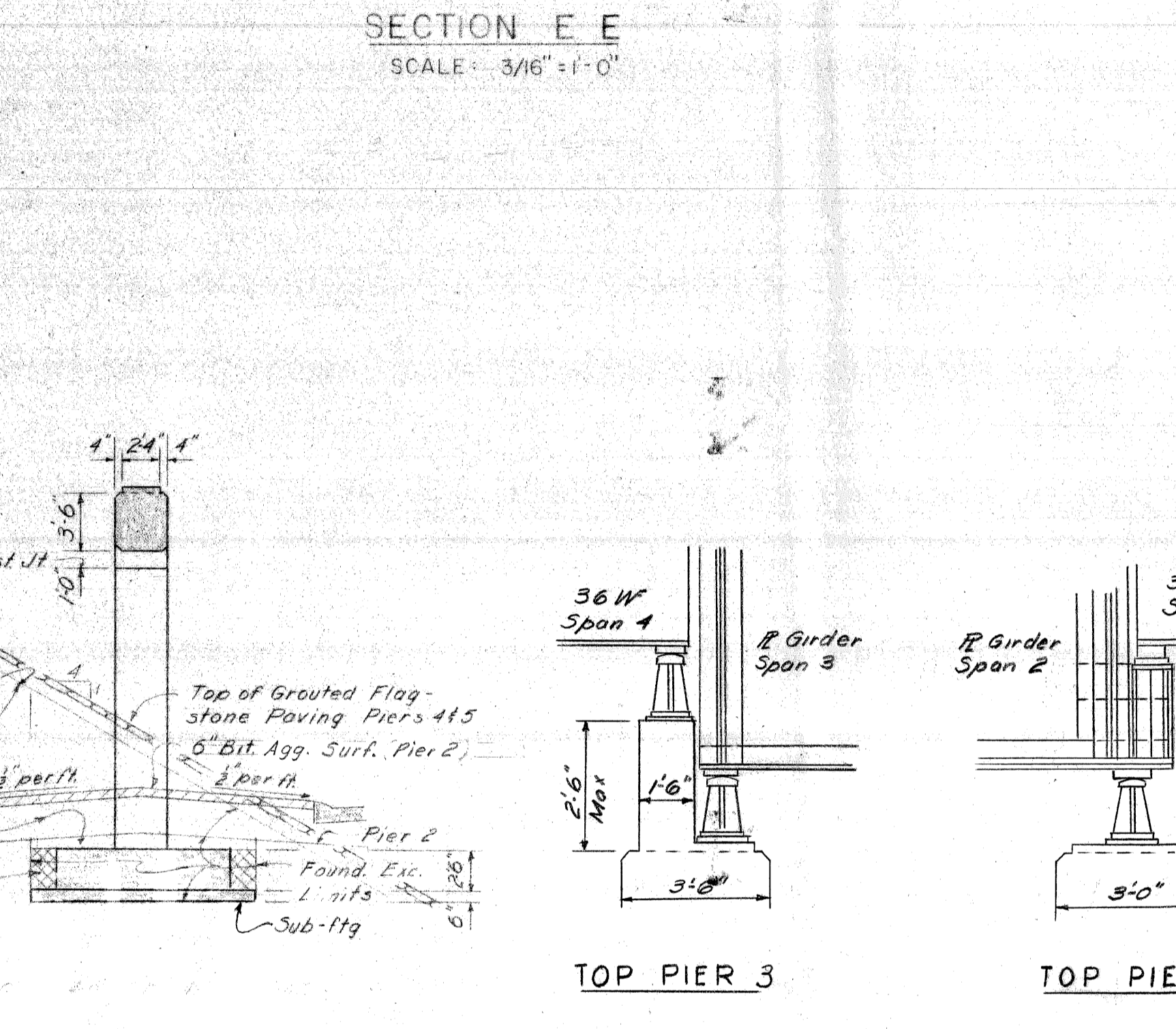
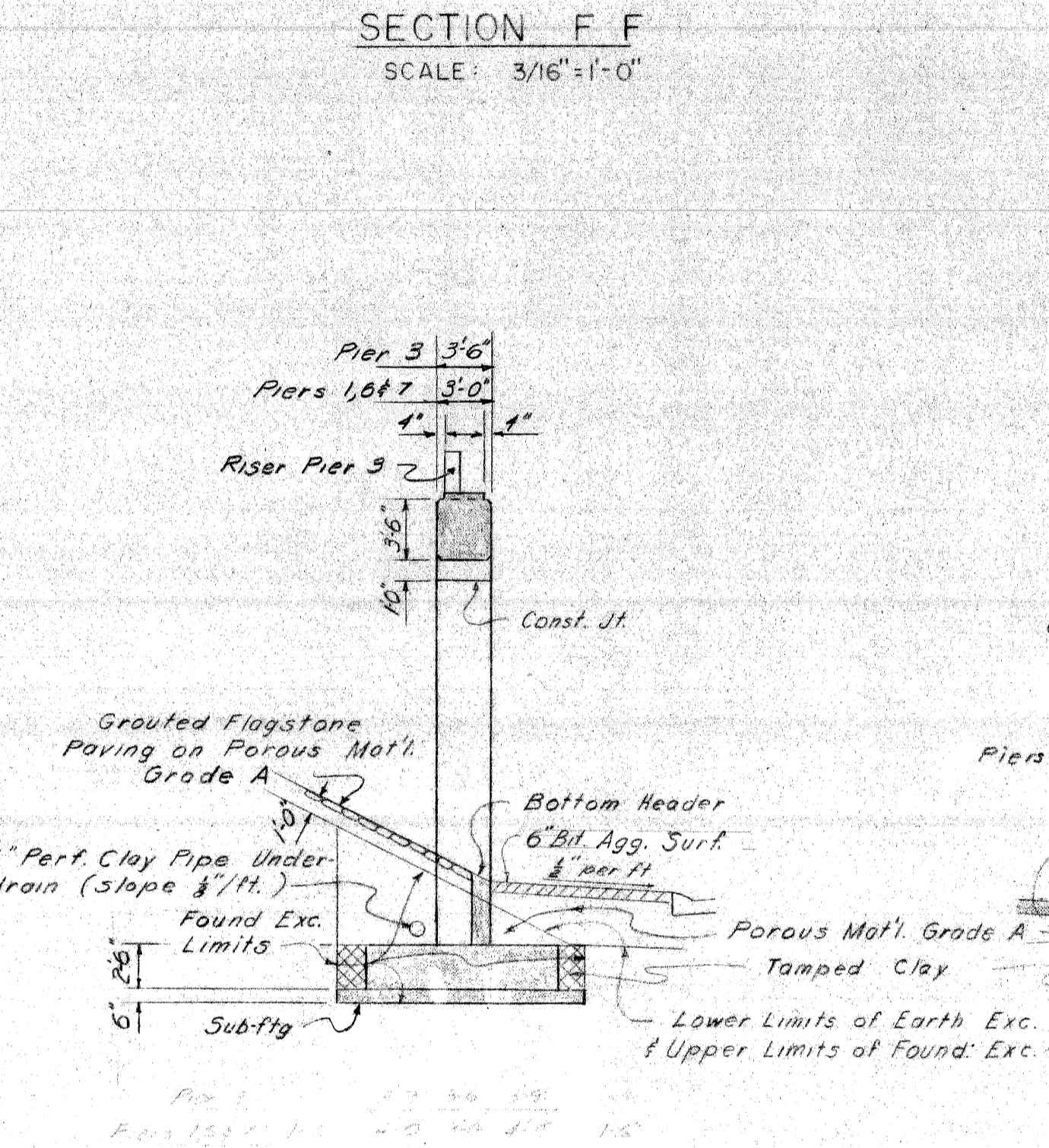
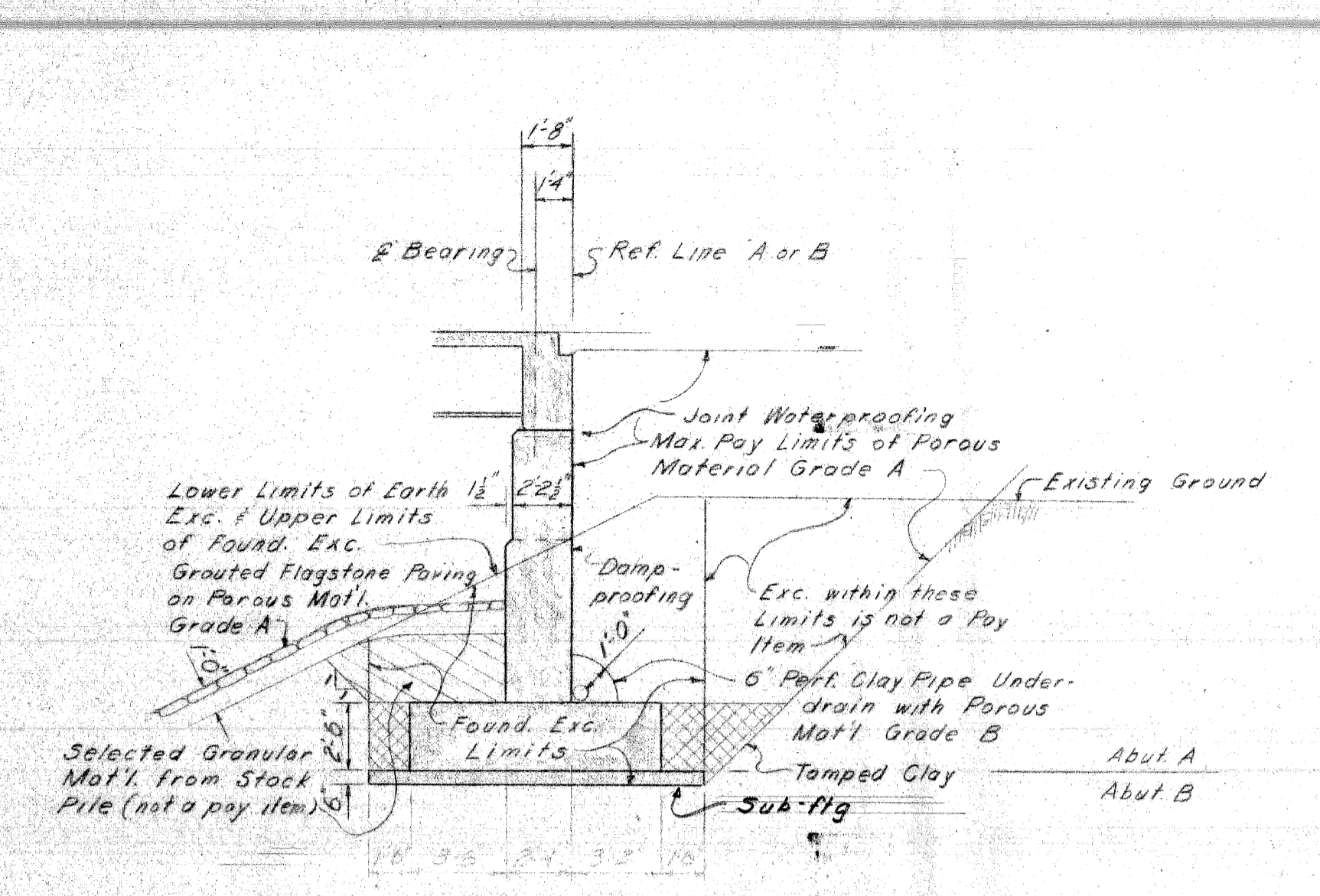
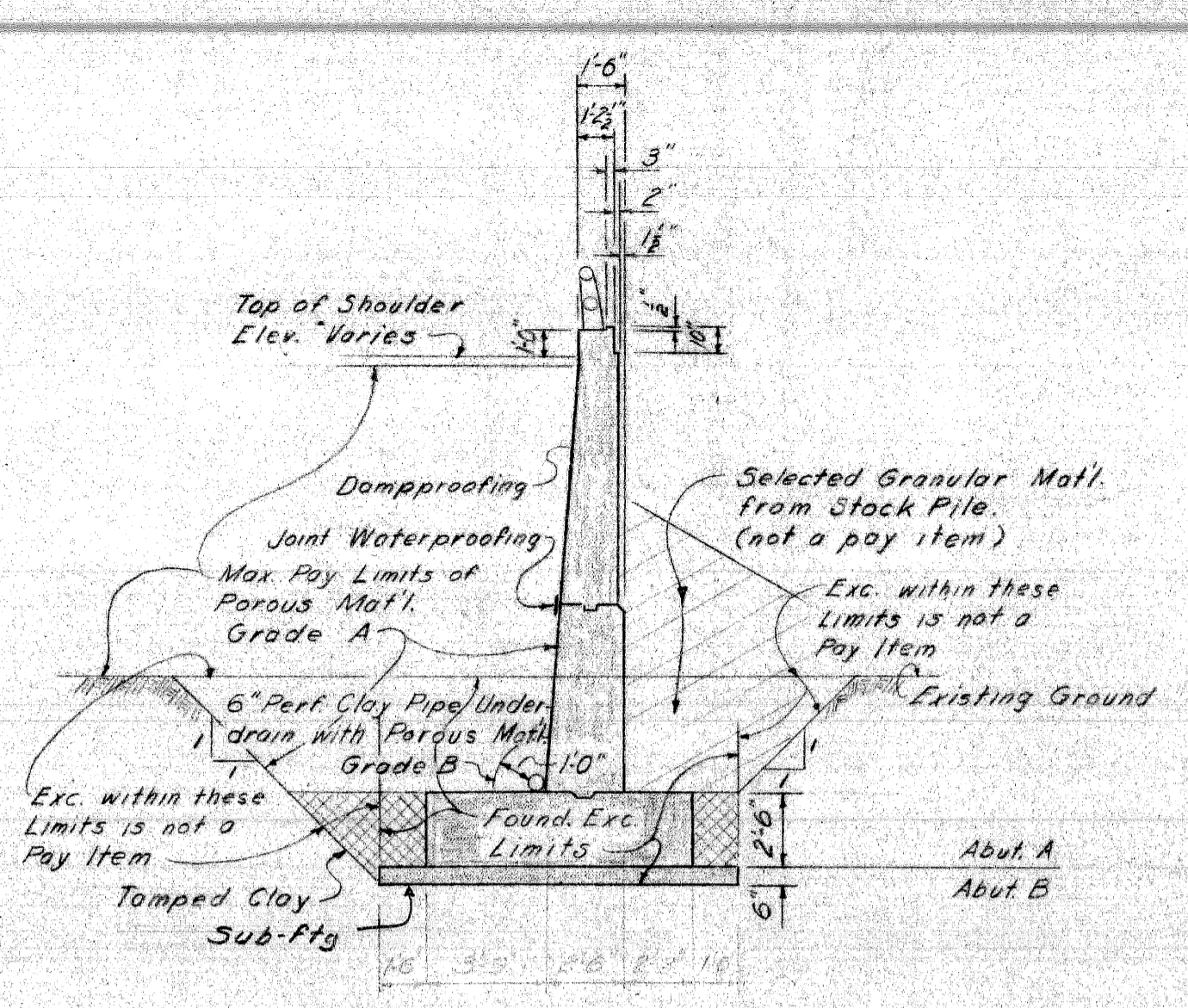
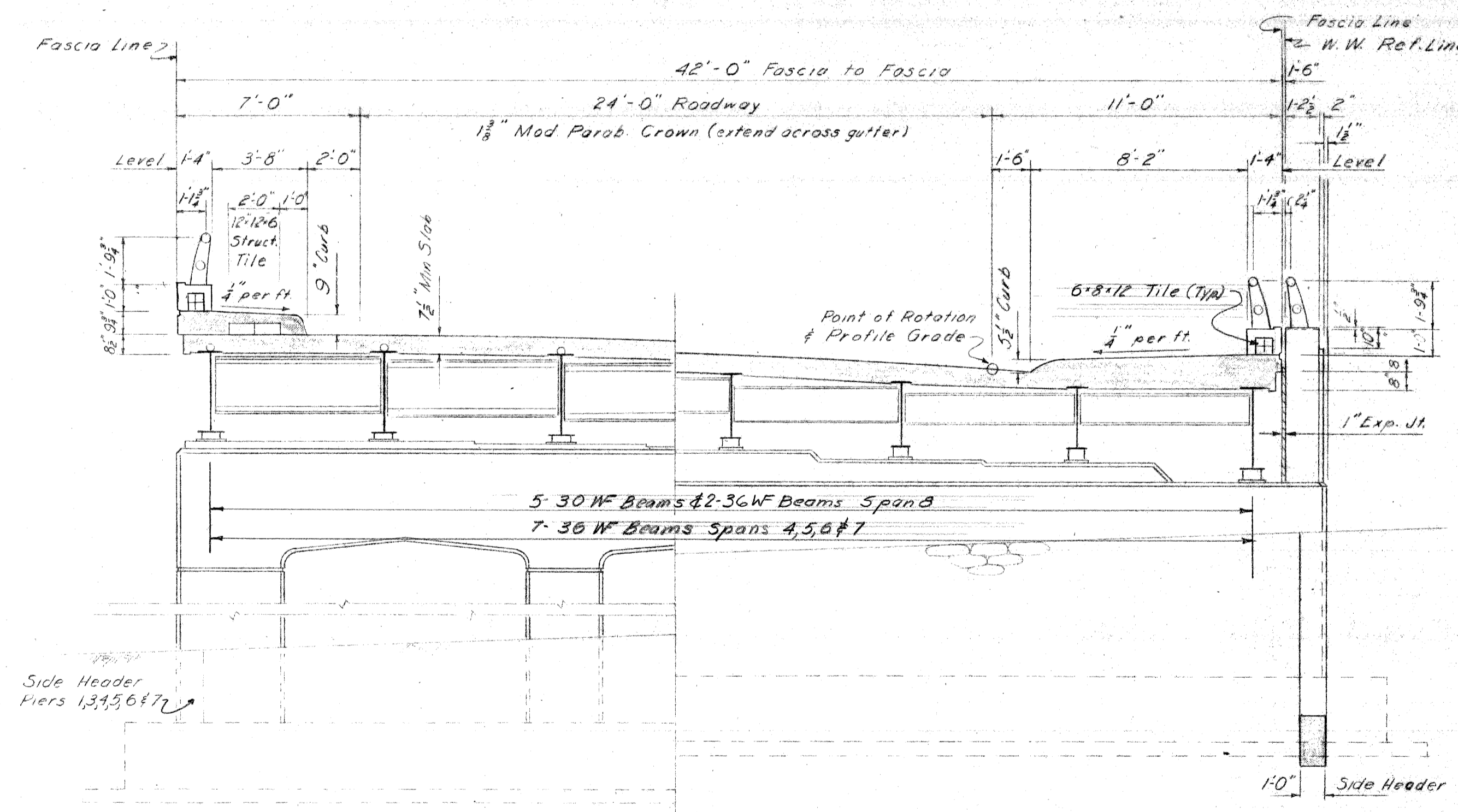
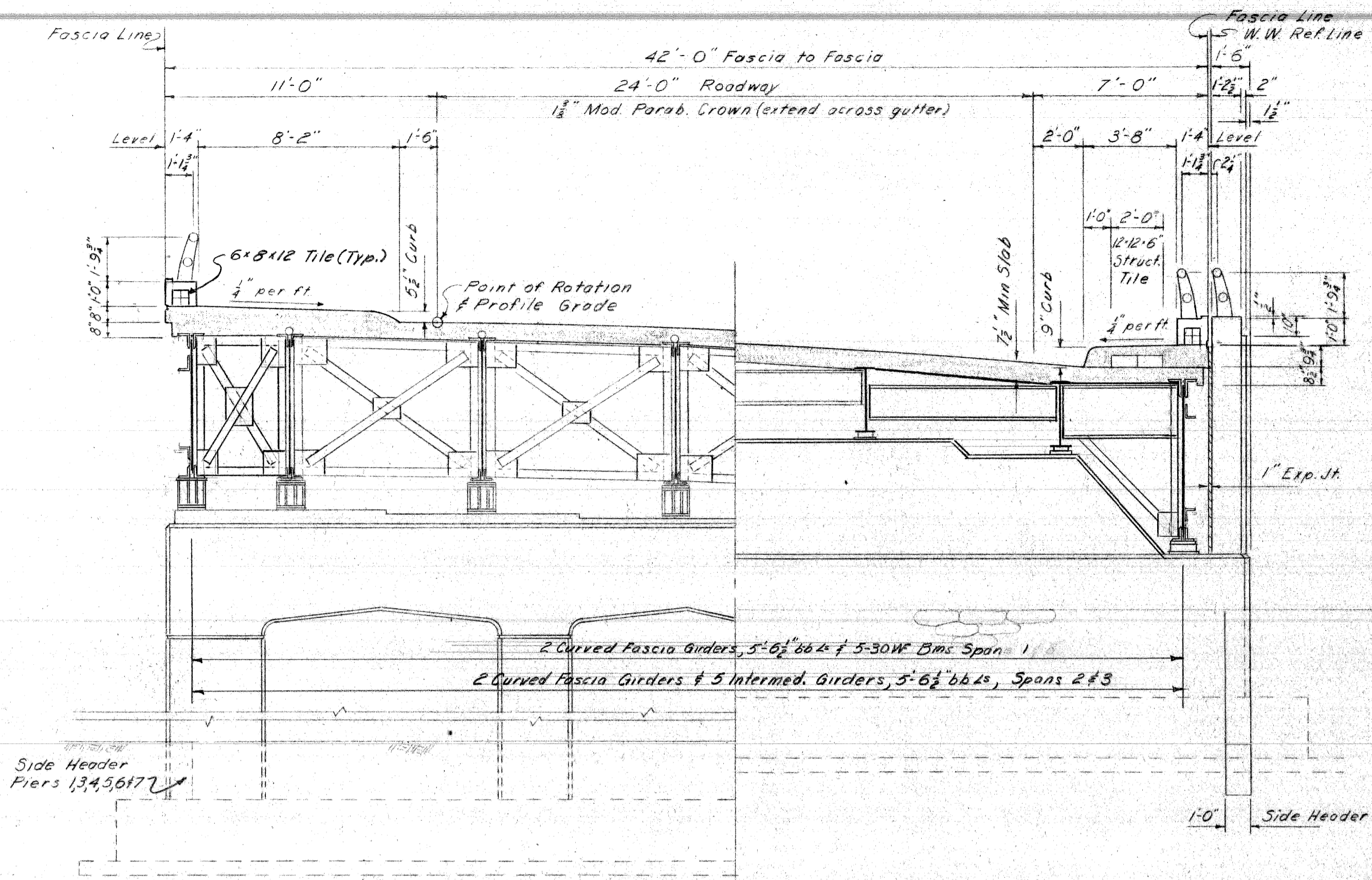


Scheme No. 1 - With Curved Fascia Girder.  
 (See Sheet 2 for Matching Spans.)

CONTROL SECTION 82251-30202

<b>PLANS PREPARED BY</b> <b>CITY OF DETROIT</b> DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS		<b>MICHIGAN STATE HIGHWAY DEPARTMENT</b> CHRYSLER-FISHER INTERCHANGE SOUTH TO WEST TURNING ROADWAY CROSSING THE WALTER P. CHRYSLER EXPRESSWAY IN DETROIT <b>GENERAL PLAN OF STRUCTURE</b>									
RECOMMENDED FOR APPROVAL Sr. Assoc. Engr. - Design		JOB No. <b>PW897B(2)</b>									
REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 65%;">DESCRIPTION</th> <th style="width: 15%;">DATE</th> <th style="width: 15%;">BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DESCRIPTION	DATE	BY					APPROVED _____ COORDINATING ENGINEER APPROVED _____ ENGINEER OF DESIGN - CONSULTANTS	
NO.	DESCRIPTION	DATE	BY								
CITY OF DETROIT SOBAD BESS DRAWN BY: <i>O. Gencos</i> TRACED BY: <i>O. Gencos</i> CHECKED BY: _____ SHEET 3 OF 4		<b>B14 OF 82-22-18</b>									





Scheme No. 1 - Framing with Curved Fascia Girder.

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

RECOMMENDED FOR APPROVAL  
Sr. Assoc. Engr. - Design  
JOB No. PW897B(2)

NO.	REVISIONS DESCRIPTION	DATE	BY

CONTROL SECTION 82251-30202

**MICHIGAN STATE HIGHWAY DEPARTMENT**

CHRYSLER-FISHER INTERCHANGE  
SOUTH TO WEST TURNING ROADWAY CROSSING THE  
WALTER P. CHRYSLER EXPRESSWAY IN DETROIT

**GENERAL PLAN OF STRUCTURE**

CITY OF DETROIT

DRAWN BY F. W. O'NEILL 3-53  
CHECKED BY  
SHEET 4 OF 2

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

**B14 OF 82-22-18**