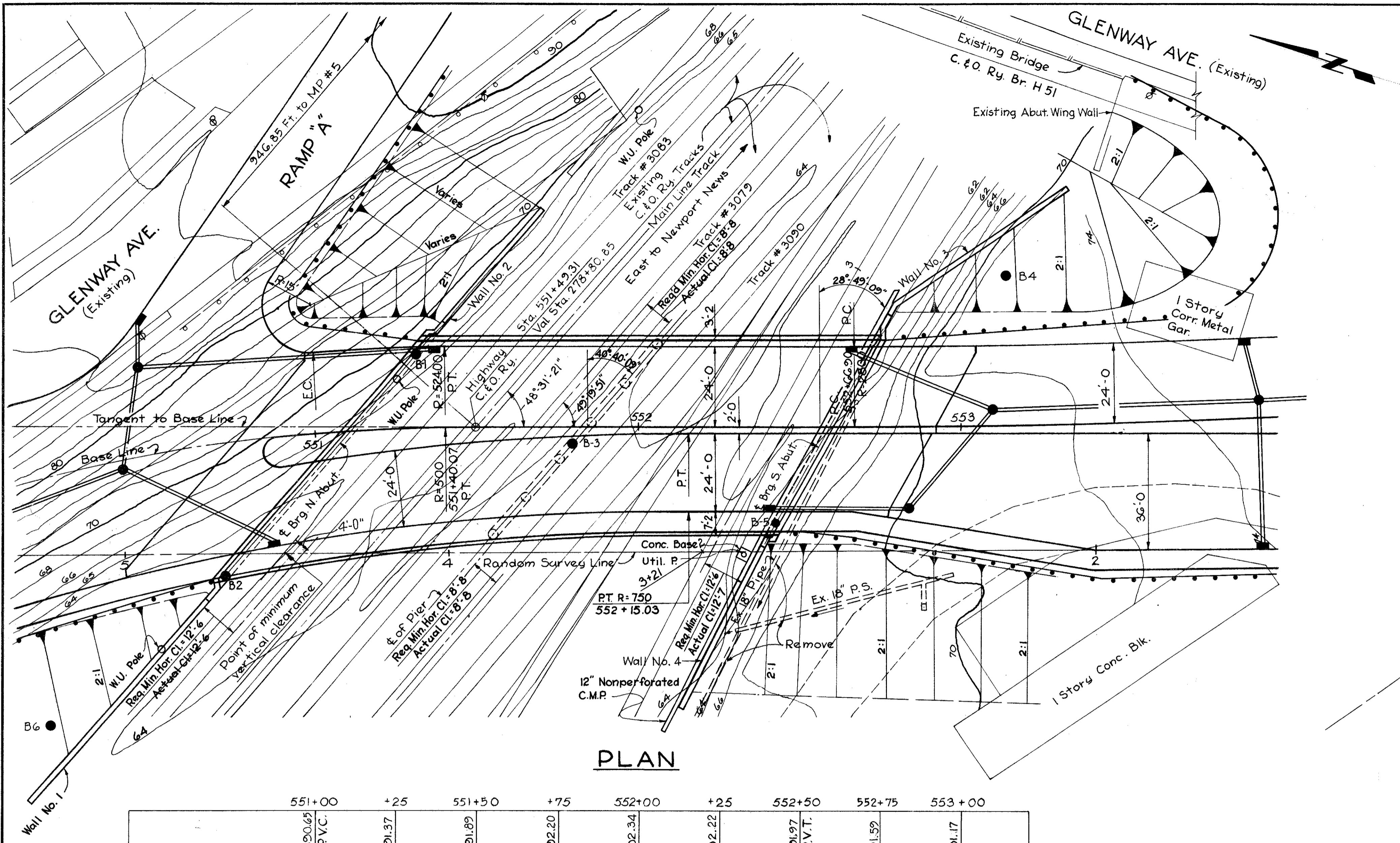
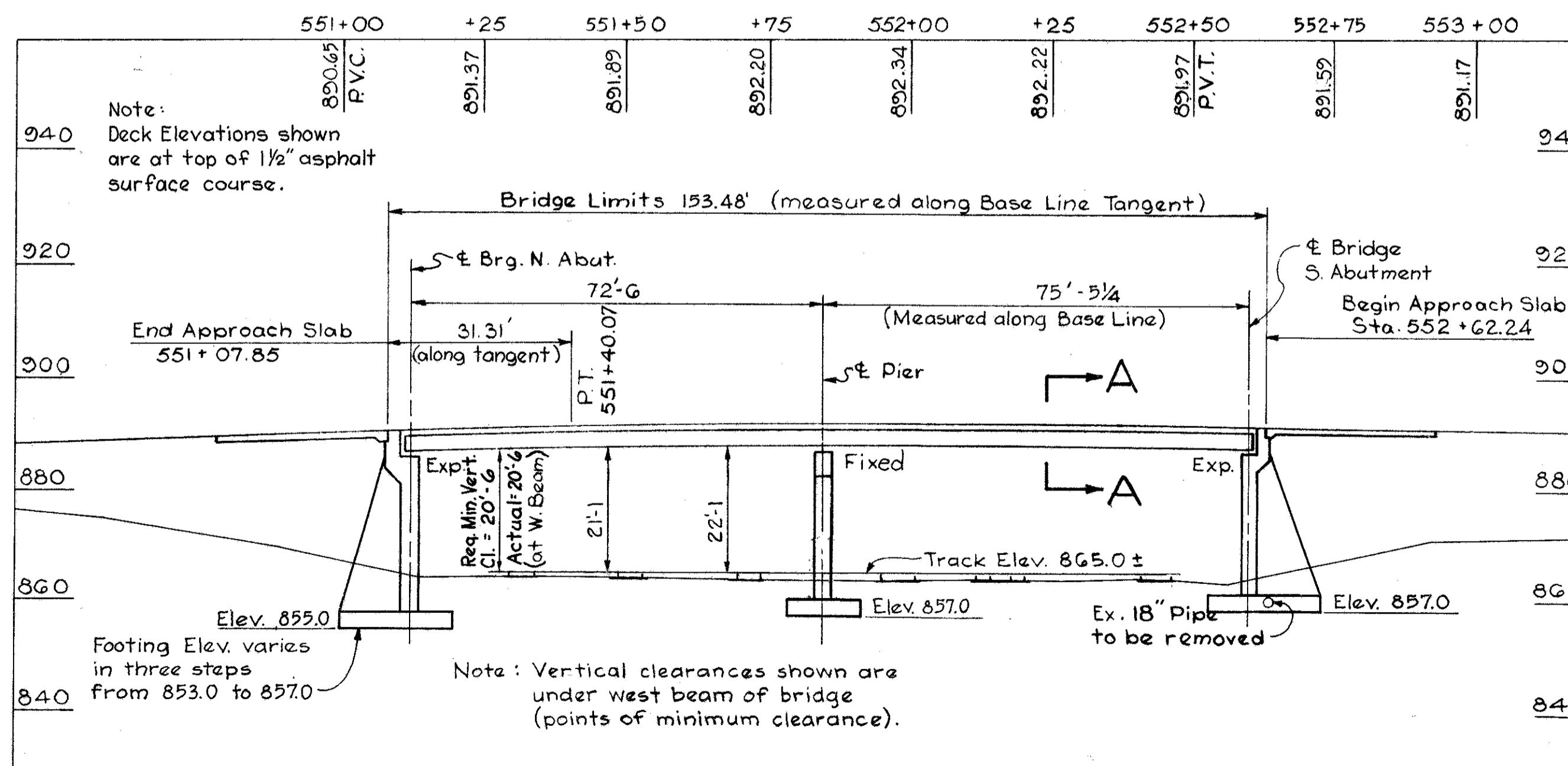


FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		80 273

HAM-264-09.41



PLAN

PROFILE
ON BASE LINECURVE DATABASE LINE

P.I. Sta. 548 + 89.83
P.C. Sta. 548 + 29.16
P.T. Sta. 551 + 40.07
 $\Delta = 4^\circ 25' 02''$
 $D = 11^\circ 27' 33''$
 $R = 500.00'$
 $L = 310.91'$
 $T = 101.67'$

P.I. Sta. 553 + G5.63
P.C. Sta. 552 + GG.90
P.C.C. Sta. 554 + G4.27
 $\Delta = 4^\circ 04' 25''$
 $D = 2^\circ 03' 50''$
 $R = 2770.00'$
 $L = 197.37'$
 $T = 98.73'$

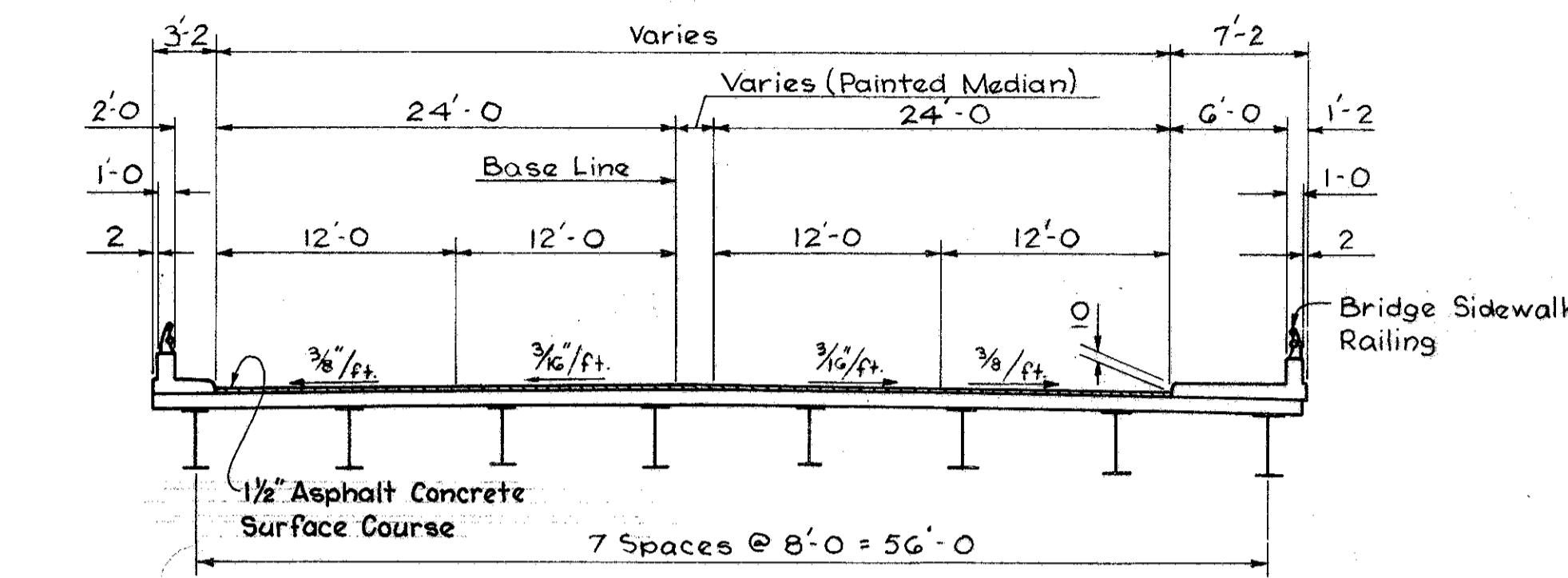
WEST CURB LINE

P.I. 551 + 14.59
P.T. 552 + 15.03
 $\Delta = 15^\circ 11' 45''$
 $D = 7^\circ 38' 22''$
 $R = 750.00'$
 $L = 198.91'$
 $T = 100.04'$

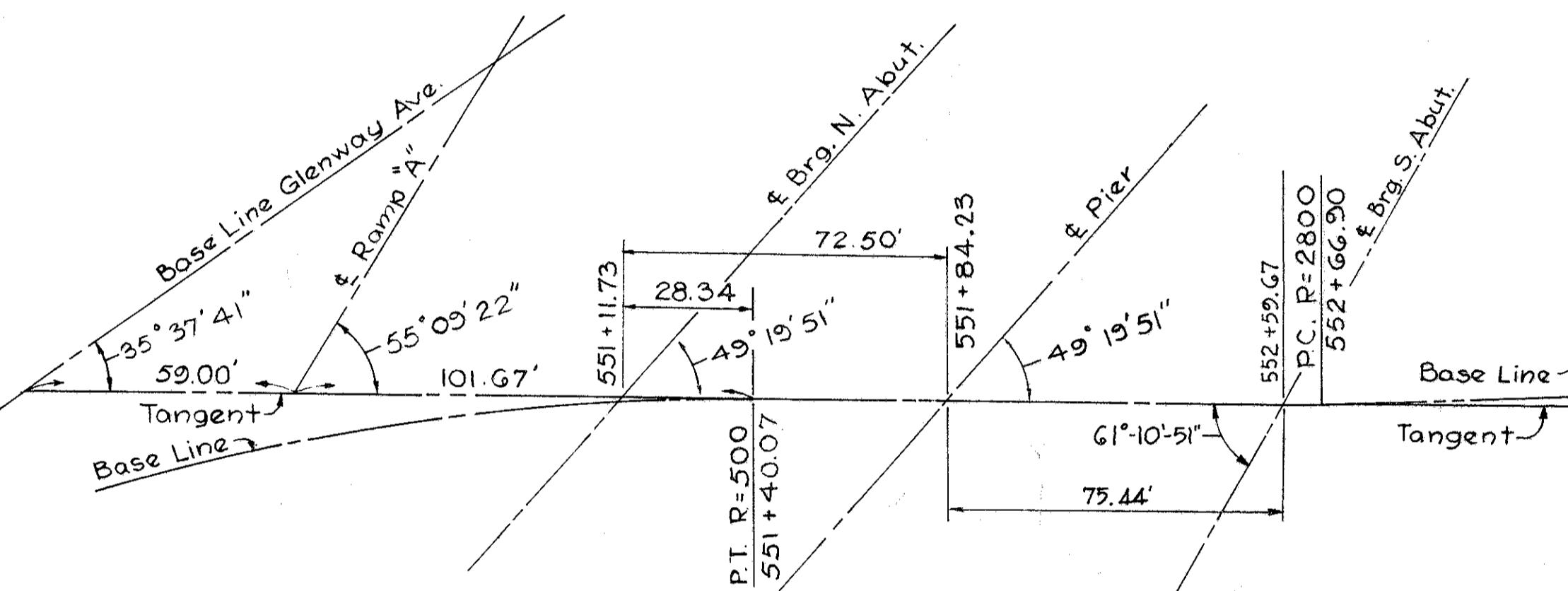
EAST CURB LINE

P.I. Sta. 551 + 19.86
P.C. Sta. 551 + 40.07
 $\Delta = 35^\circ 37' 41''$
 $D = 10^\circ 56' 04''$
 $R = 524.00'$
 $L = 40.40'$
 $T = 20.21'$

NOTE:
● Symbol denotes Test Boring
Earthwork limits shown are schematic.
Actual slopes shall conform to plan cross-sections.



SECTION A-A



PIER AND ABUTMENT LOCATION DIAGRAM

PROPOSED STRUCTURE

TYPE: Two span continuous wide flange beams with reinforced concrete deck and substructure.
SPANS: 72.50', 75.44' along Base Line
ROADWAY: Varies with 2'-0" safety curb along the east side and 4'-0" sidewalk along the west side.
LIVE LOADING: HS 20-00-44
SKEW: 40° 40' 09" L.F., 28° 49' 09" L.F.
WEARING SURFACE: 1/2" Asphalt Concrete
APPROACH SLAB: AS-1-72 (30'-0" long) modified
ALIGNMENT: Base Line 11° 27' 33" Right, Tangent, 2° 02' 47" Left.
West Curb Line 7° 38' 22" Right and Tangent.
East Curb Line 11° 09' 43" Right, Tangent, 2° 03' 50" Left.

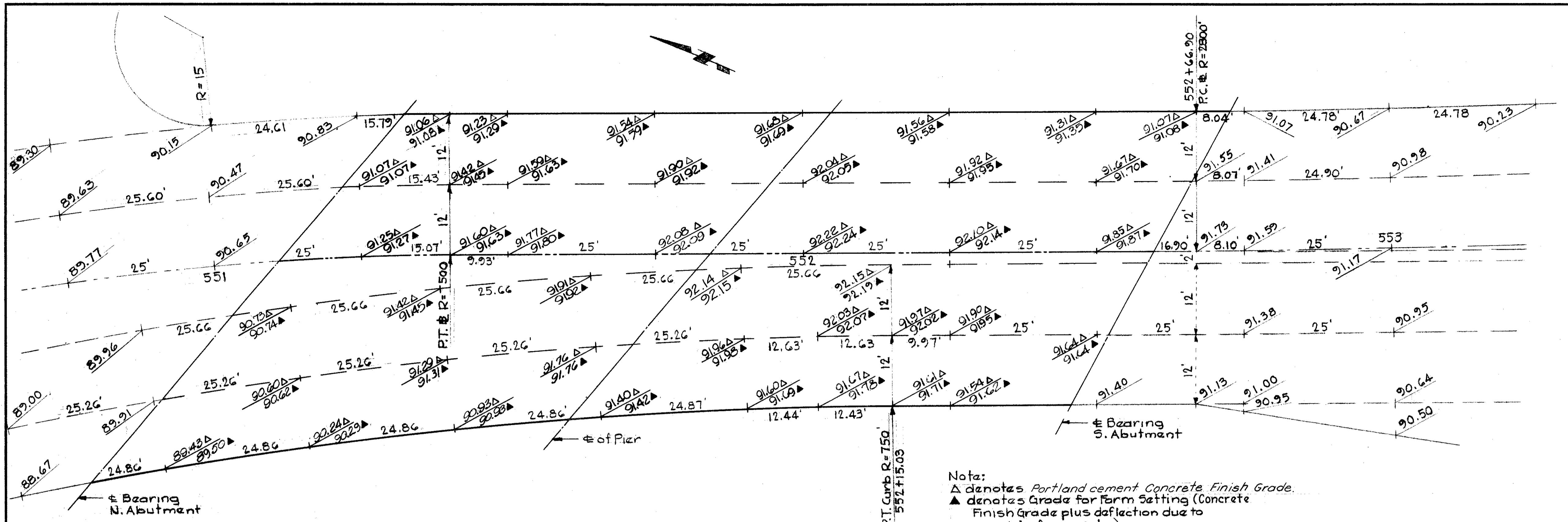
C. & O. RAILWAY DESIGNATION BRIDGE FH 52

CITY OF CINCINNATI DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING	1 / 22
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SITE PLAN
BRIDGE No. HAM-264-10 4 4
GLENWAY AVE. BRIDGE
OVER C.&O. RAILWAY

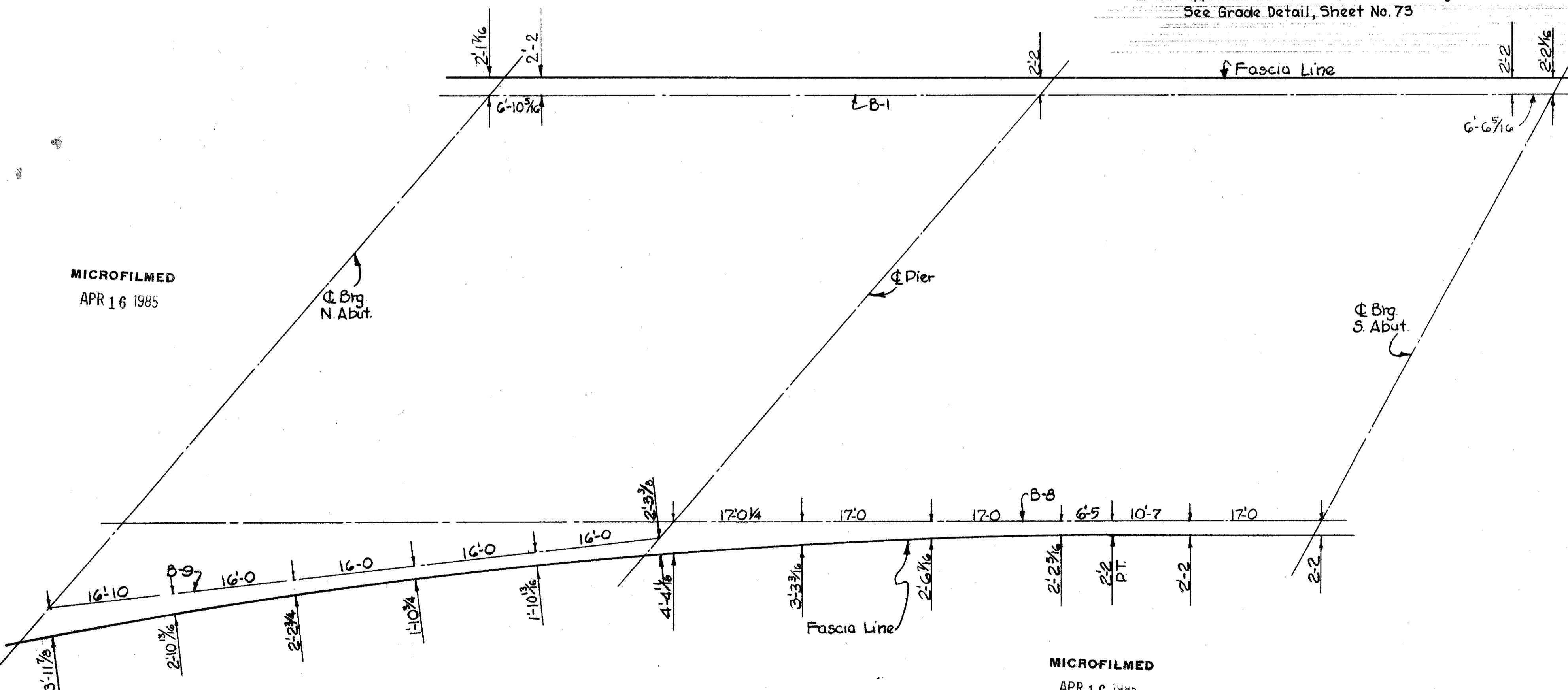
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
W.W.	W.W.	N.K.	G.C.H. J.D.A.	W.W.	8-17-72	

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

82
273HAMILTON COUNTY
HAM-264-09.41

GRADE DETAIL

Note:
 △ denotes Portland cement Concrete Finish Grade.
 ▲ denotes Grade for Form Setting (Concrete Finish Grade plus deflection due to weight of concrete)
 Top of asphalt concrete surface course Finish Grade on the bridge. The elevations shown on the approaches are top of asphalt concrete roadway surface. Top of reinforced concrete approach slab = 2" below roadway surface.
 See Grade Detail, Sheet No. 73



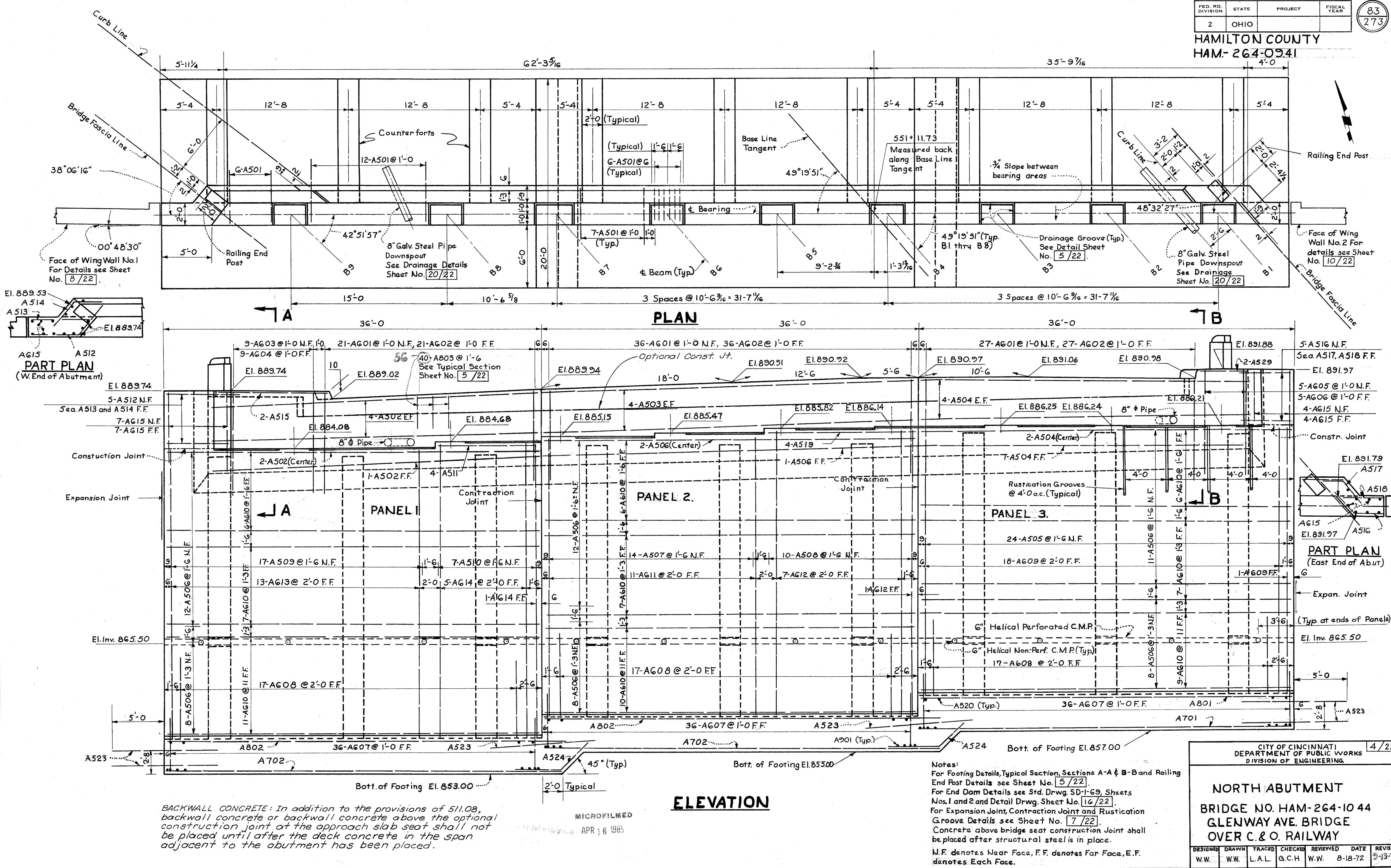
FASCIA OFFSETS

MICROFILMED
APR 16 1985

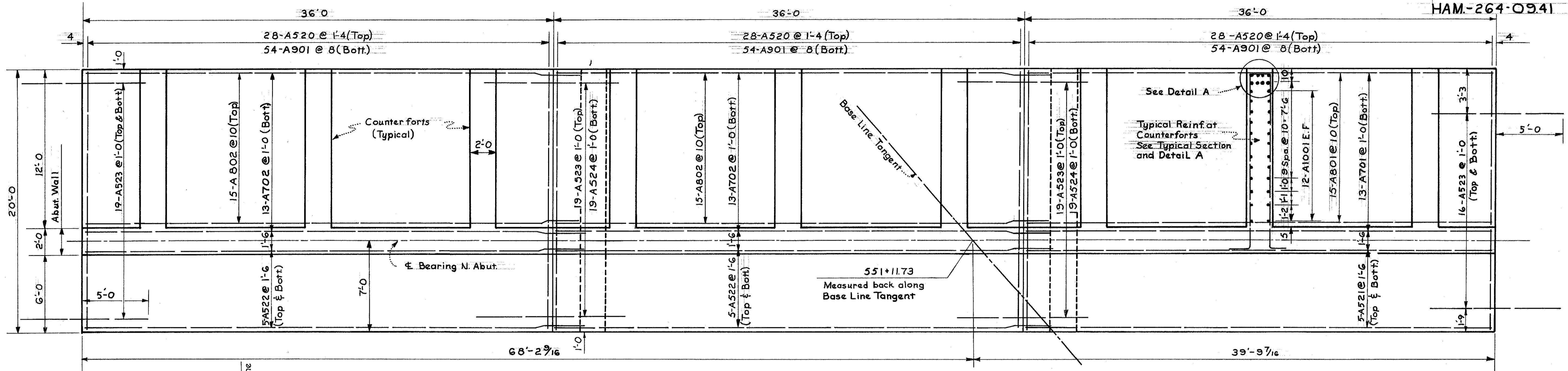
GRADE DETAILS AND FASCIA OFFSETS				3/22
BRIDGE NO. HAM-264-1044				
GLENWAY AVE. BRIDGE				
OVER C.&O. RAILWAY				
DESIGNED W.W.	DRAWN W.W.	TRACED P.E.T.	CHECKED P.E.T.	REVIEWED W.W. 8-18-72
REVISED				

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		83 273

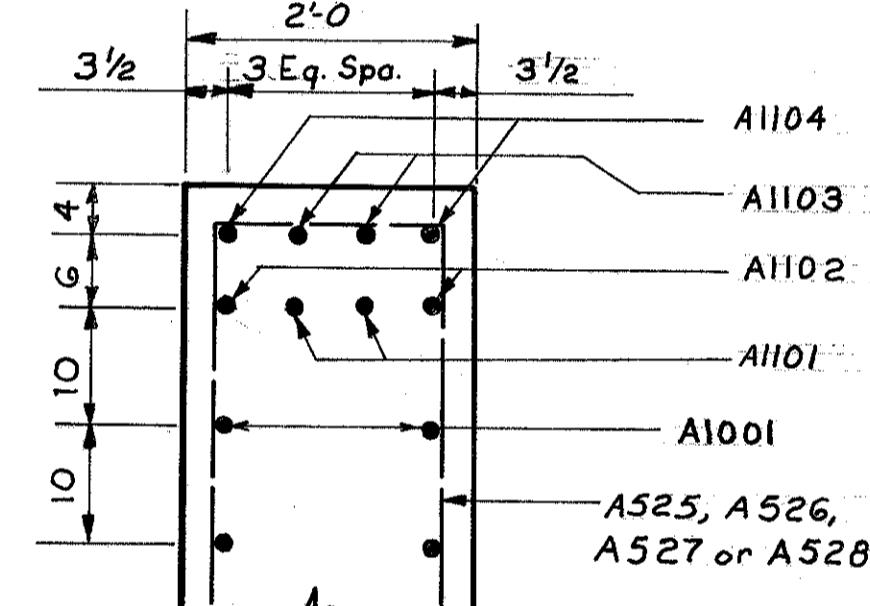
HAMILTON COUNTY
HAM-264-0941



HAMILTON COUNTY
HAM-264-0941



FOOTING PLAN

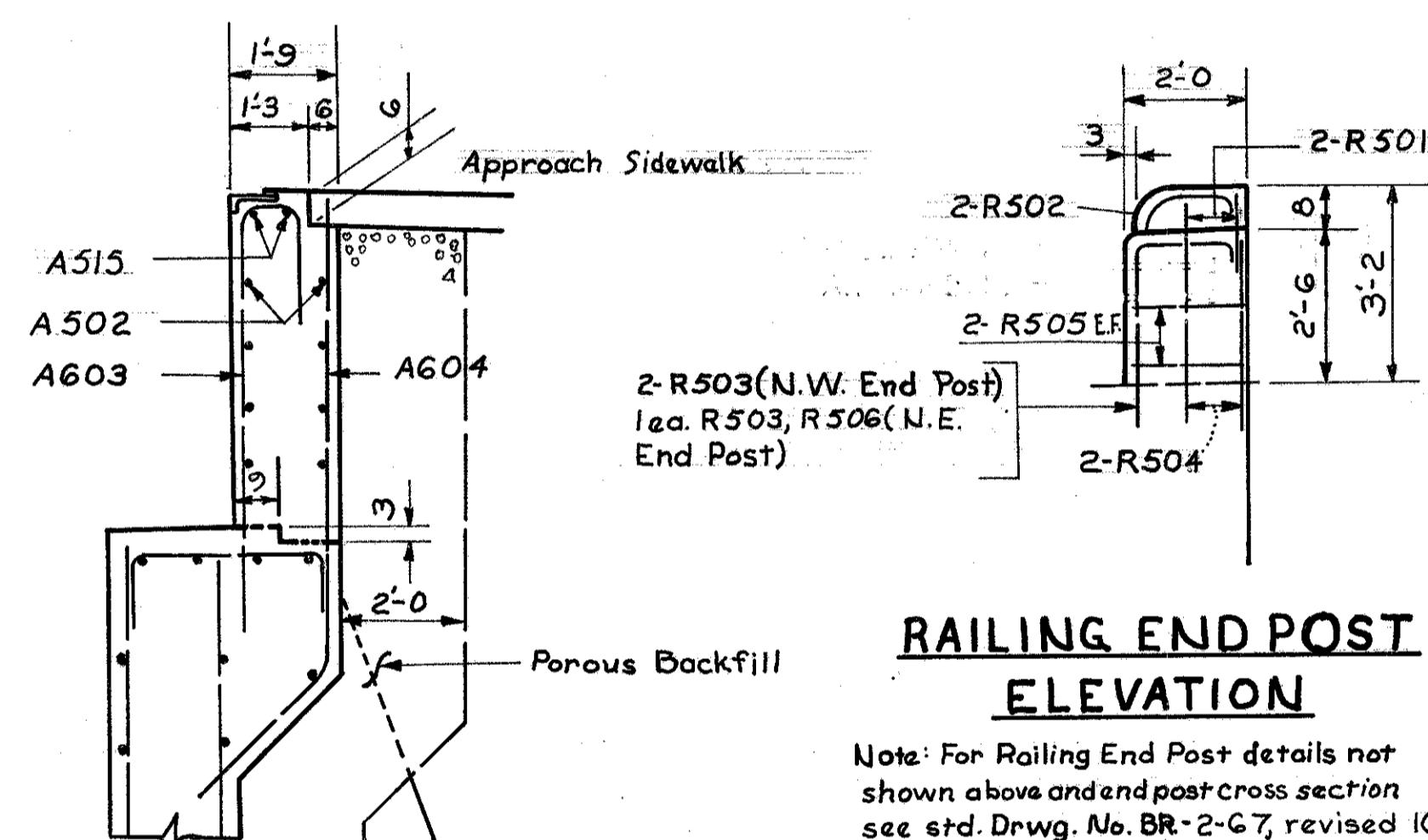


DETAILA

DRAINAGE DETAIL

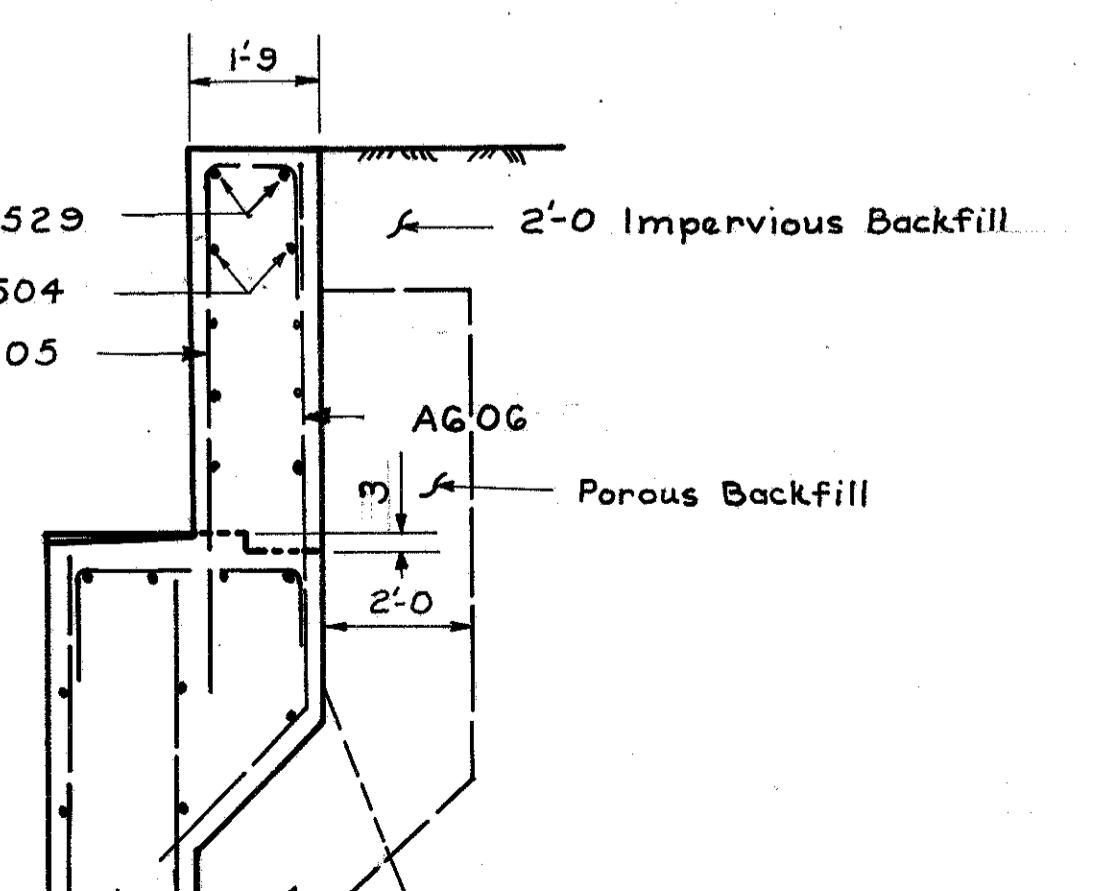
SECTION

MICROFILMED
APR 12 1986



TYPICAL SECTION
AT BEAM SEAT
(Showing Draining Groove)

Note: For Railing End Post details not shown above and end post cross section see std. Drwg. No. BR-2-67, revised 10-15-71.



SECTION B-B

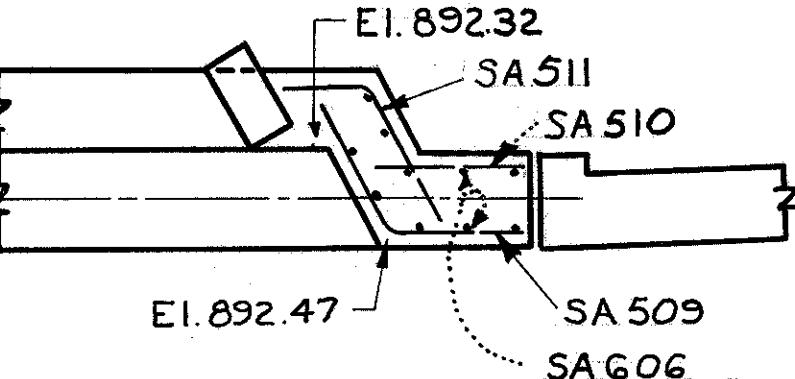
**CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING**

NORTH ABUTMENT
BRIDGE NO. HAM-264-1044
GLENWAY AVE. BRIDGE
OVER C. & O. RAILWAY

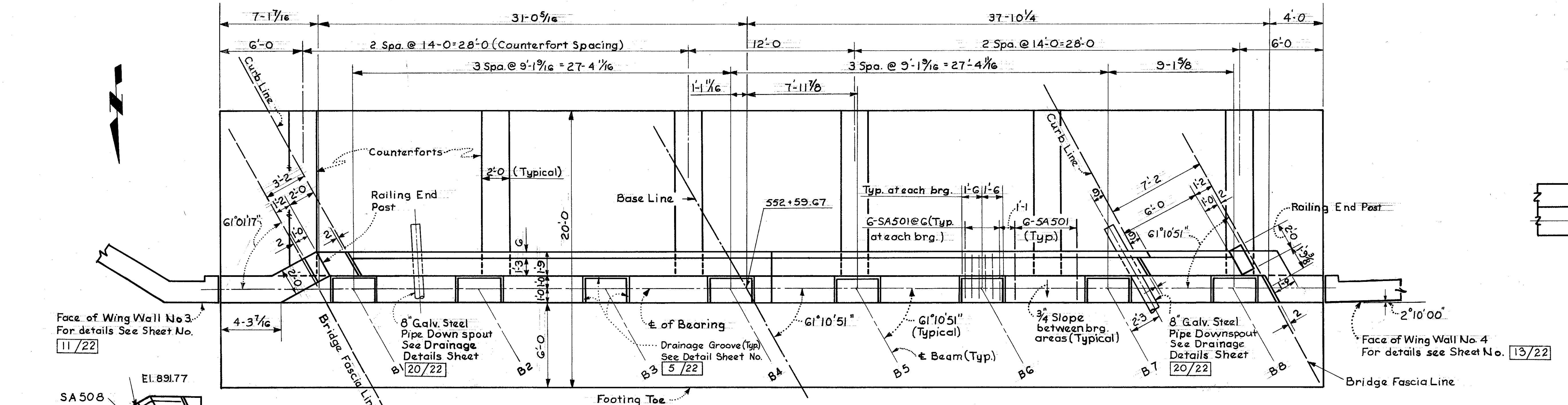
SIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.W.	W.W.	L.A.L.	G.C.H.	W.W.	8-18-72	

ED. RD. VISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

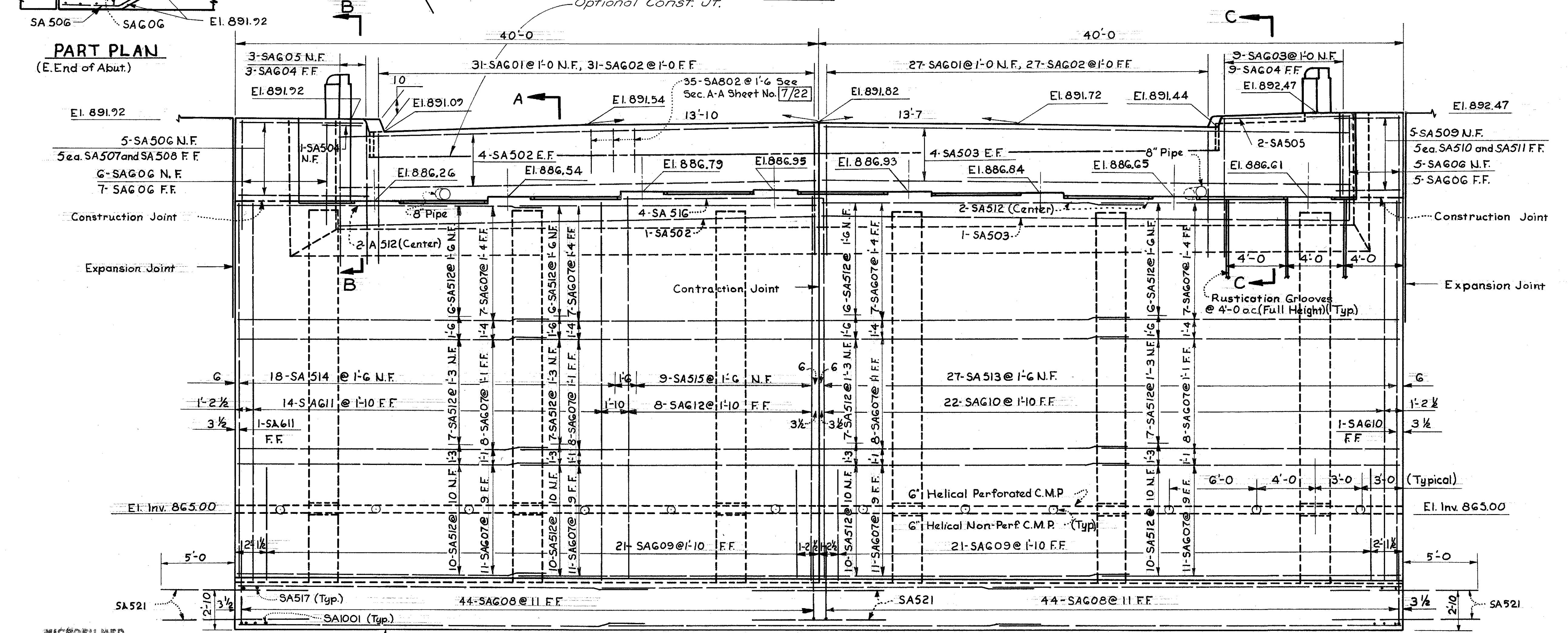
HAMILTON COUNTY
HAM-264-09.41



PART PLAN



PLA



BACKWALL CONCRETE: In addition to the provisions of 511.08, backwall concrete or backwall concrete above the optional construction joint at the approach slab seat shall not be placed until after the deck concrete in the span adjacent to the abutment has been placed.

Notes:
For Footing Plan, Sections A-A, B-B and C-C
and Railing End Post Detail see Sheet No.
For End Dam Details see Std. Drwg. SD-1-G9
Sheet Nos. 1 and 2, and Sheet No. **16/22**.
For Expansion Joint, Contraction Joint and
Rustication Groove Details see Sheet No.
7/22
Concrete above bridge seat construction
Joint shall be placed after structural
steel is in place

**CITY OF CINCINNATI
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SOUTH ABUTMENT

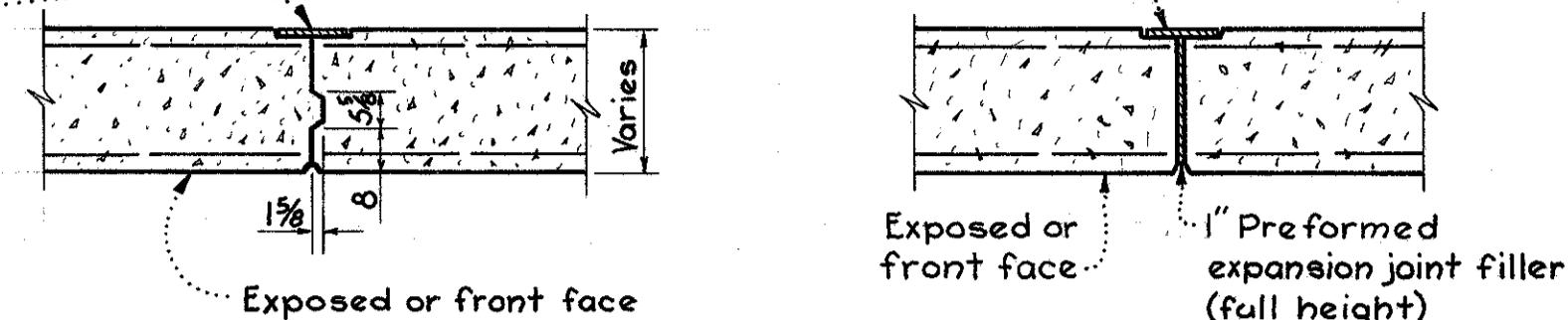
BRIDGE NO. HAM-264-104
GLENWAY AVE. BRIDGE
OVER C & O RAILWAY

ED. RD. VISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

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273

HAMILTON COUNTY
HAM-264-09.41

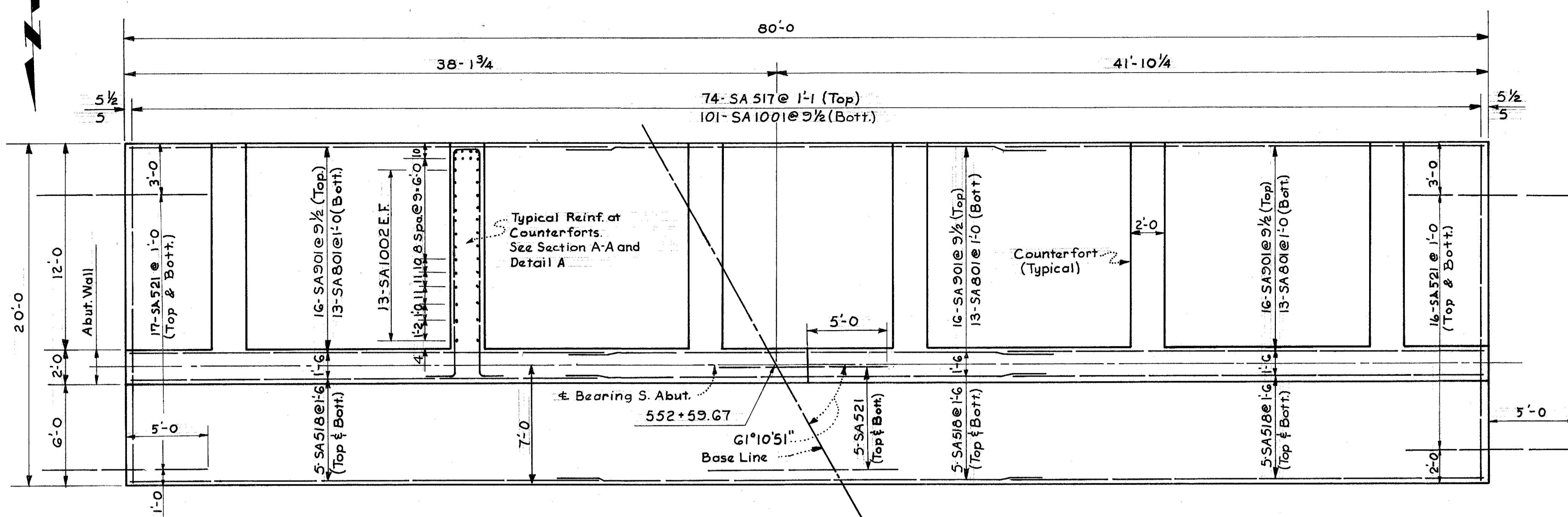
Premolded sealing strip in 13" x 3/4" recess (top of footing to 1'-0" below top of wall) ...



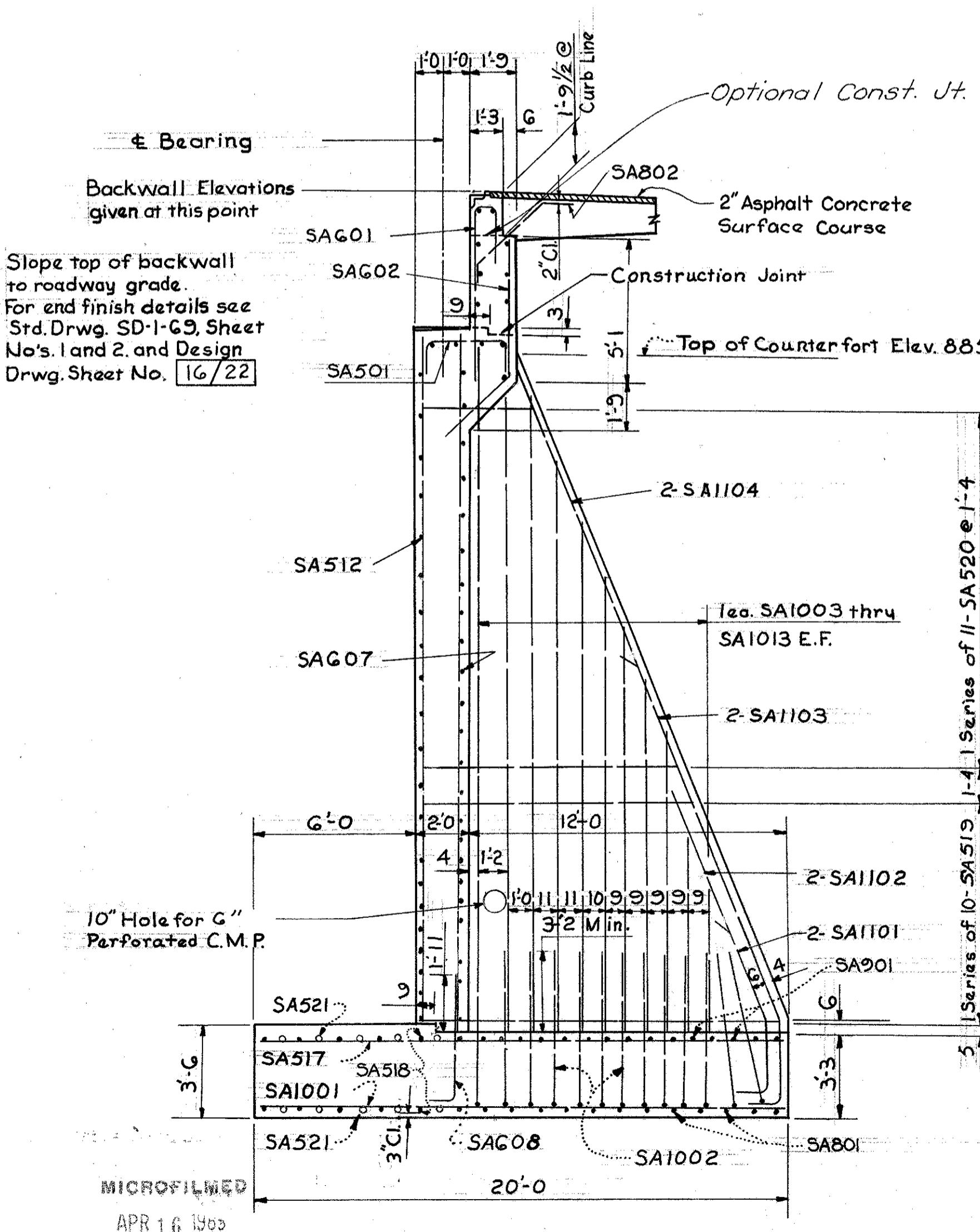
CONTRACTION JOINT DETAIL



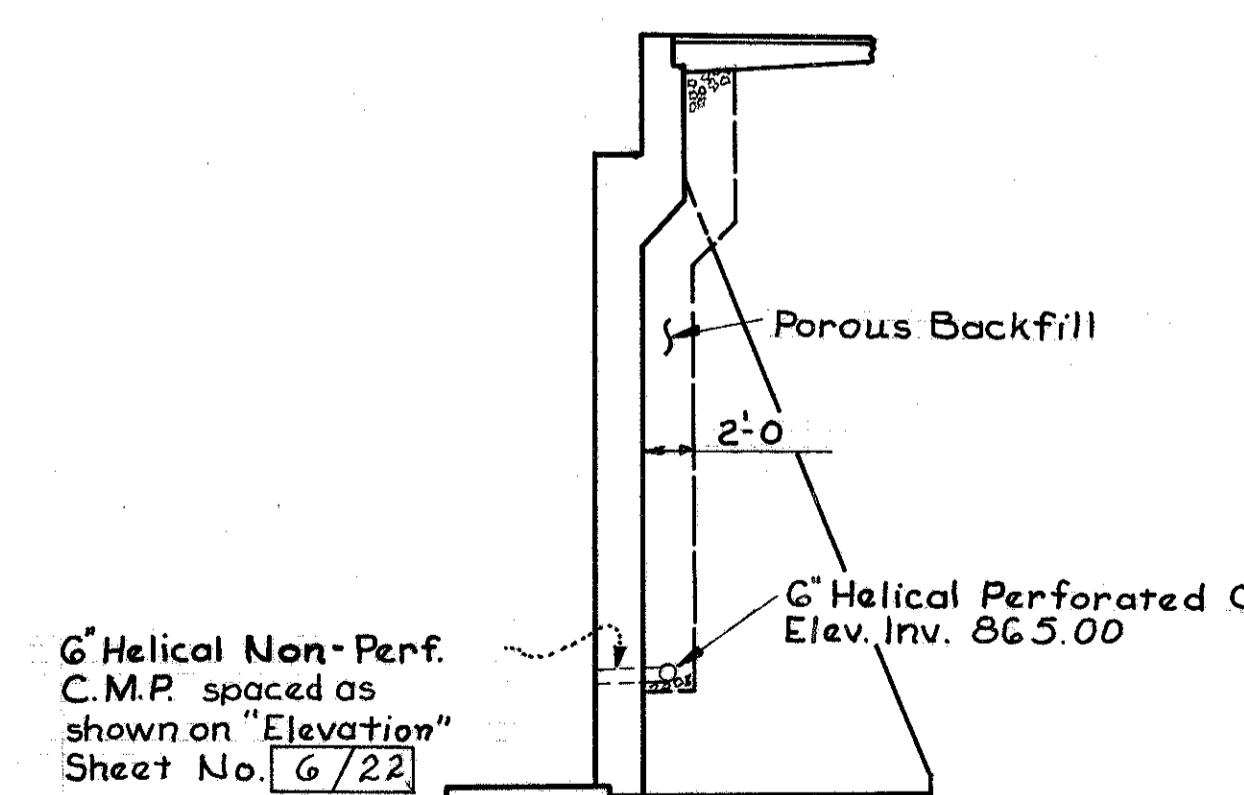
EXPANSION JOINT DETAIL



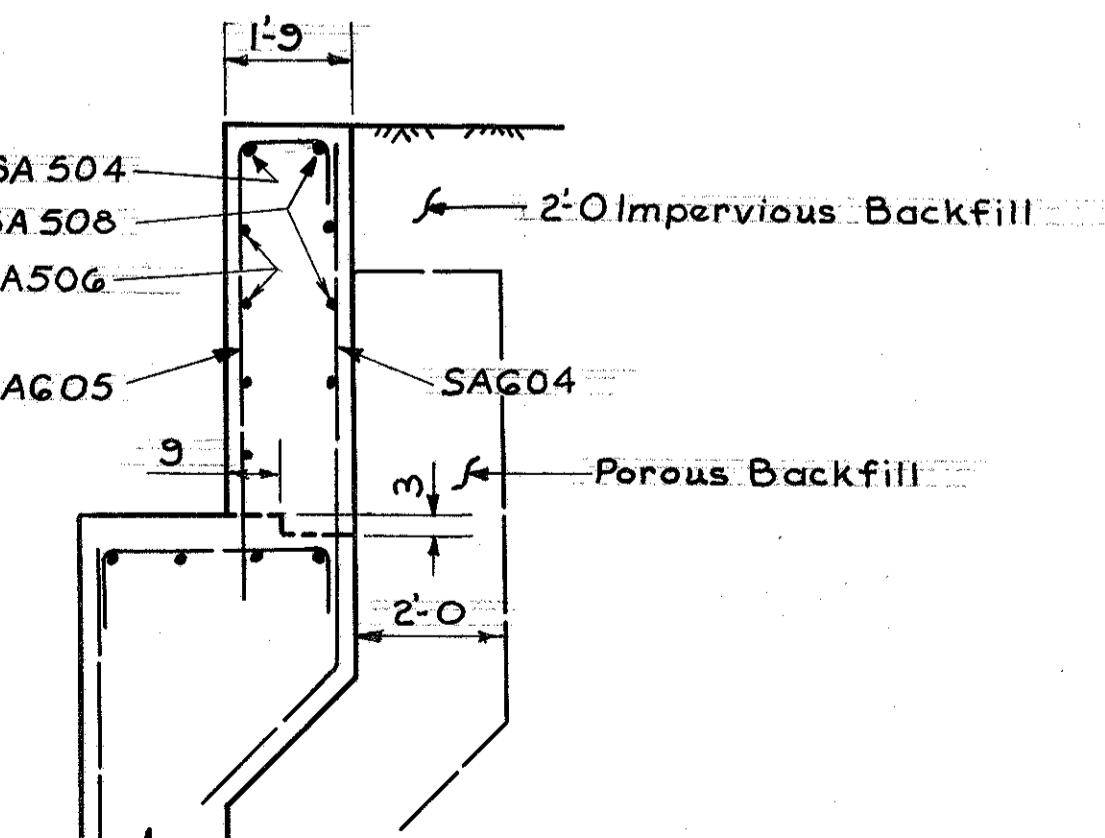
FOOTING PL.



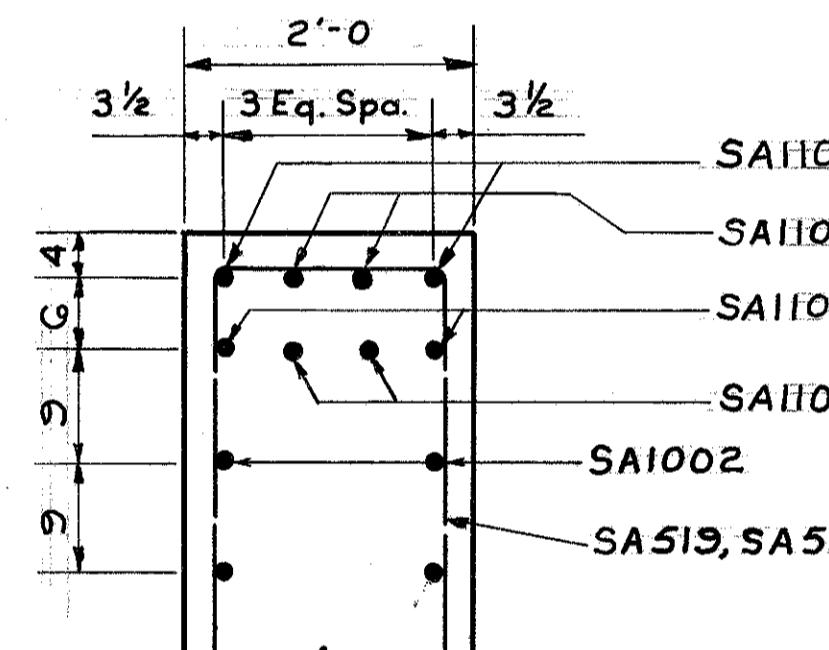
SECTION A-A



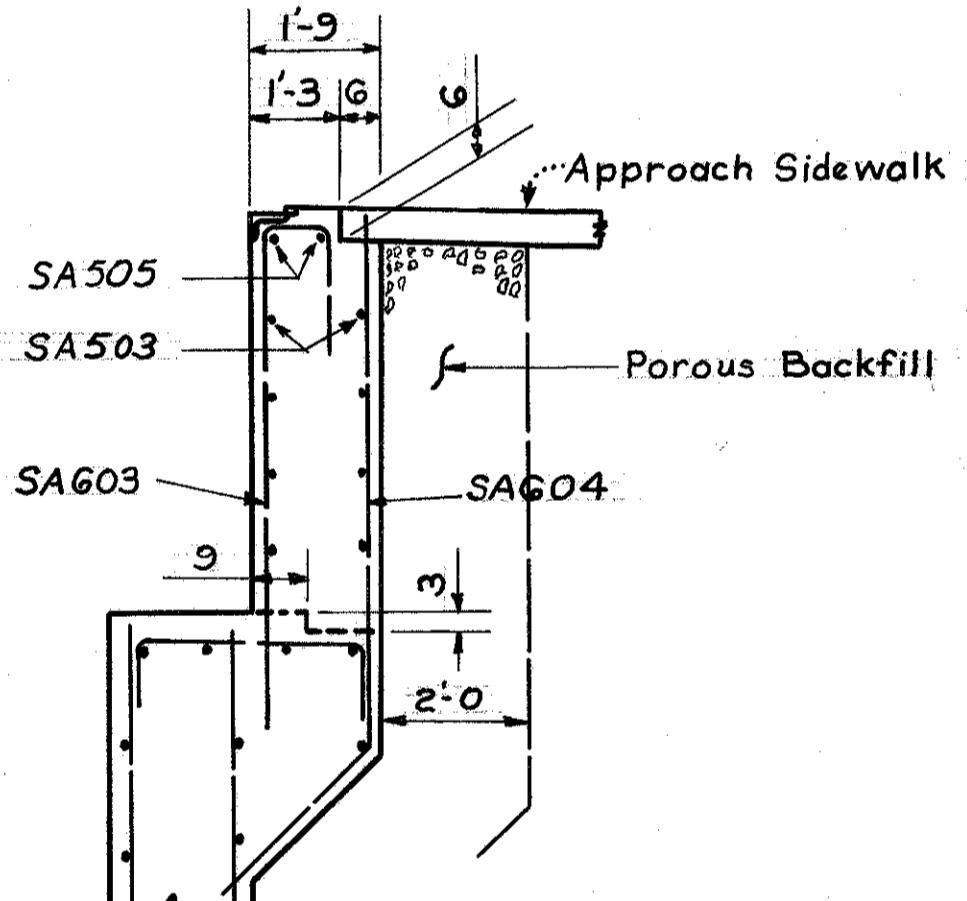
DRAINAGE DETAIL SECTION



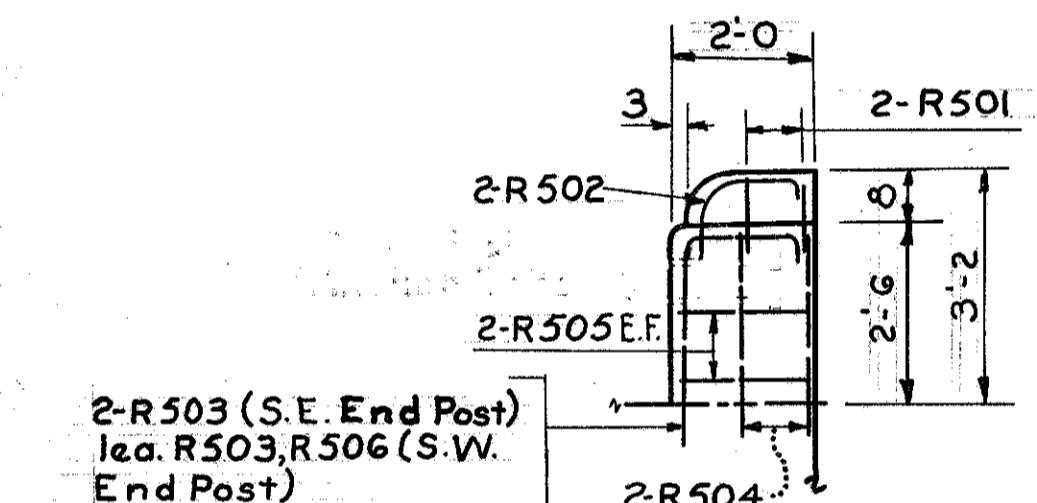
SECTION B-B



DETAIL A



SECTION C-C



RAILING END POST
ELEVATION

Note: For Railing End Post details not shown above and end post cross section see Std. Drwg. No. BR-2-67, revised 10-15-71

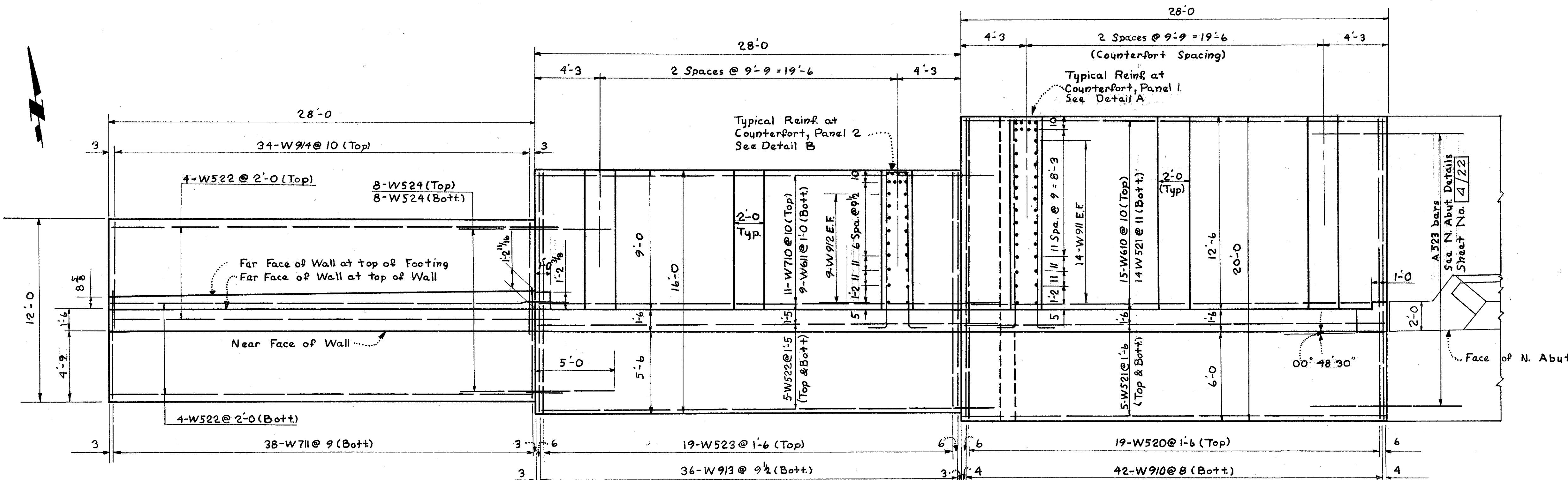
For reinforcing bar details see Sheet No 22/22

CITY OF CINCINNATI
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DIVISION OF ENGINEERING

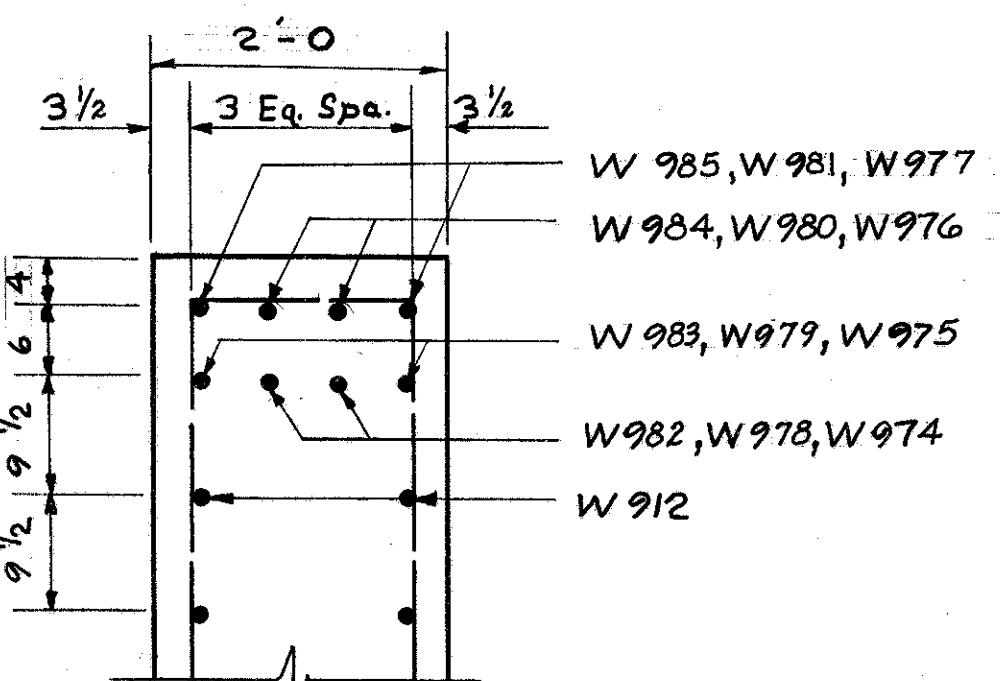
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

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273

HAMILTON COUNTY
HAM-264-09.41



DETAIL A

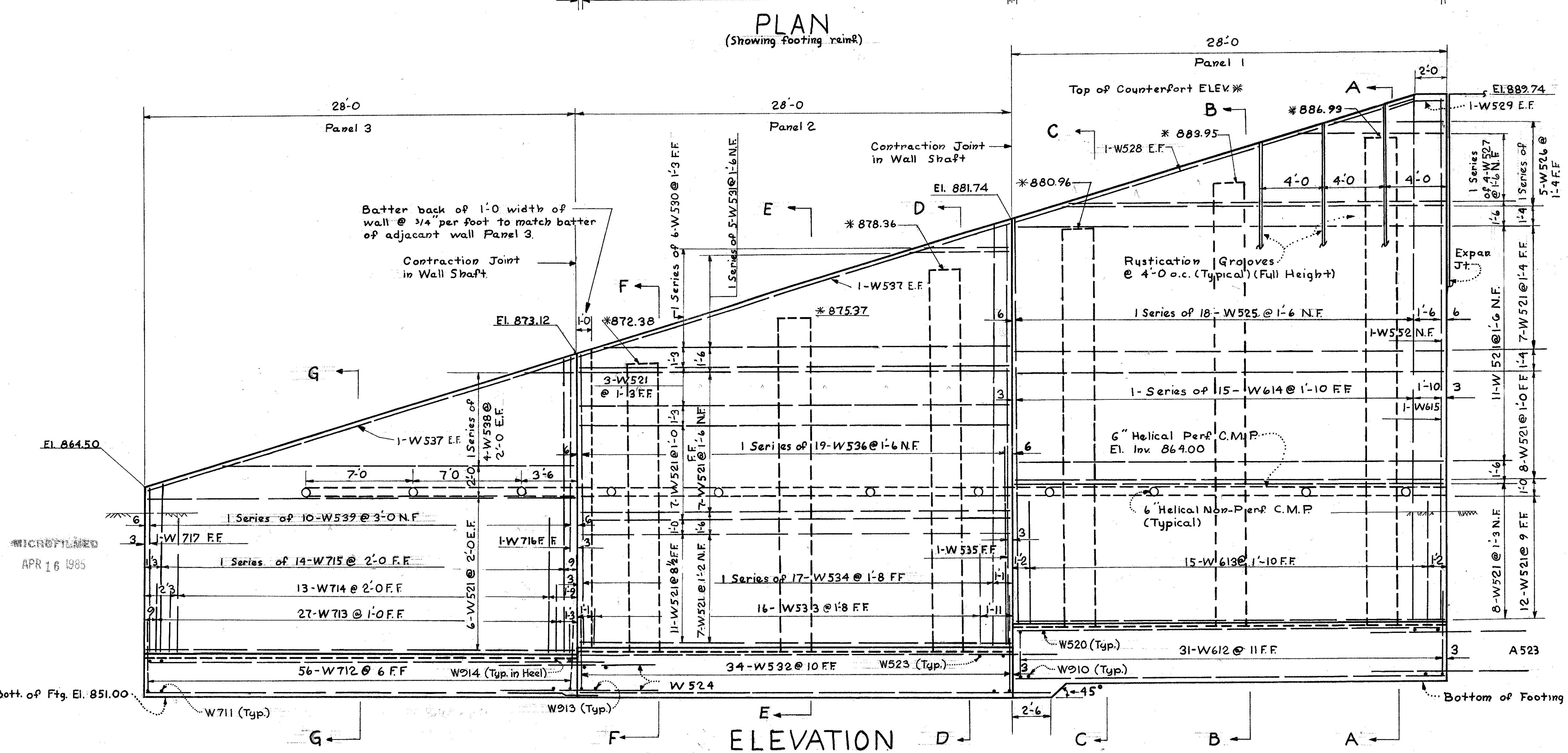


DETAIL B

Notes:
F denotes Far Face
N.F. denotes Near Face
E.F. denotes Each Face

For details of Expansion Joint, Contraction Joint, and Rustication Grooves see Sheet No. 7 / 22

For Wall Sections and Details see
Sheet No. **9 / 22**



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DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING**

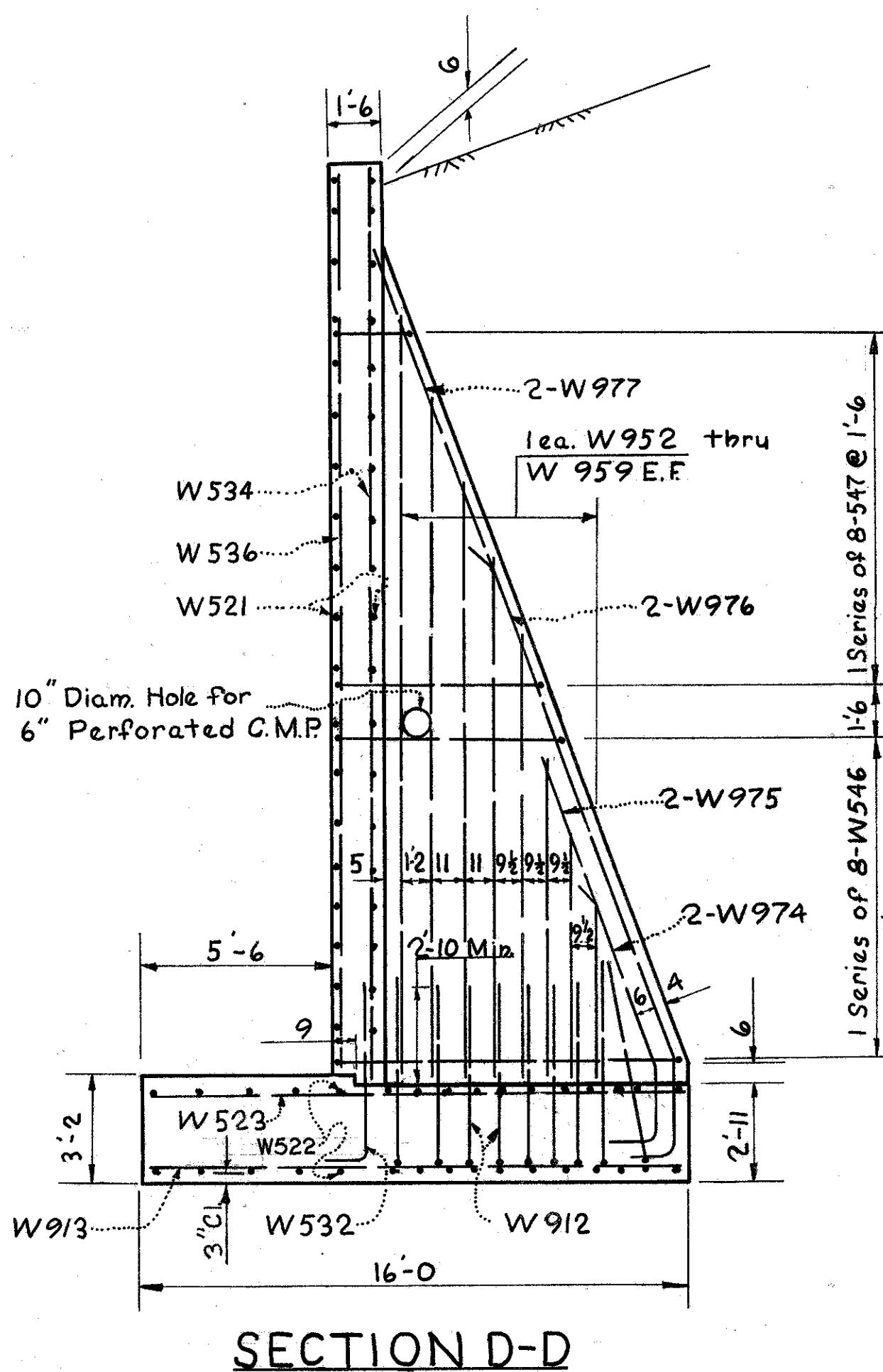
WINGWALL NO. 1
BRIDGE NO. HAM-264-1044
GLENWAY AVE. BRIDGE
OVER C & O RAILWAY

ED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
7.	W.W.	L.A.L.	G.C.H.	W.W.	8-18-72	

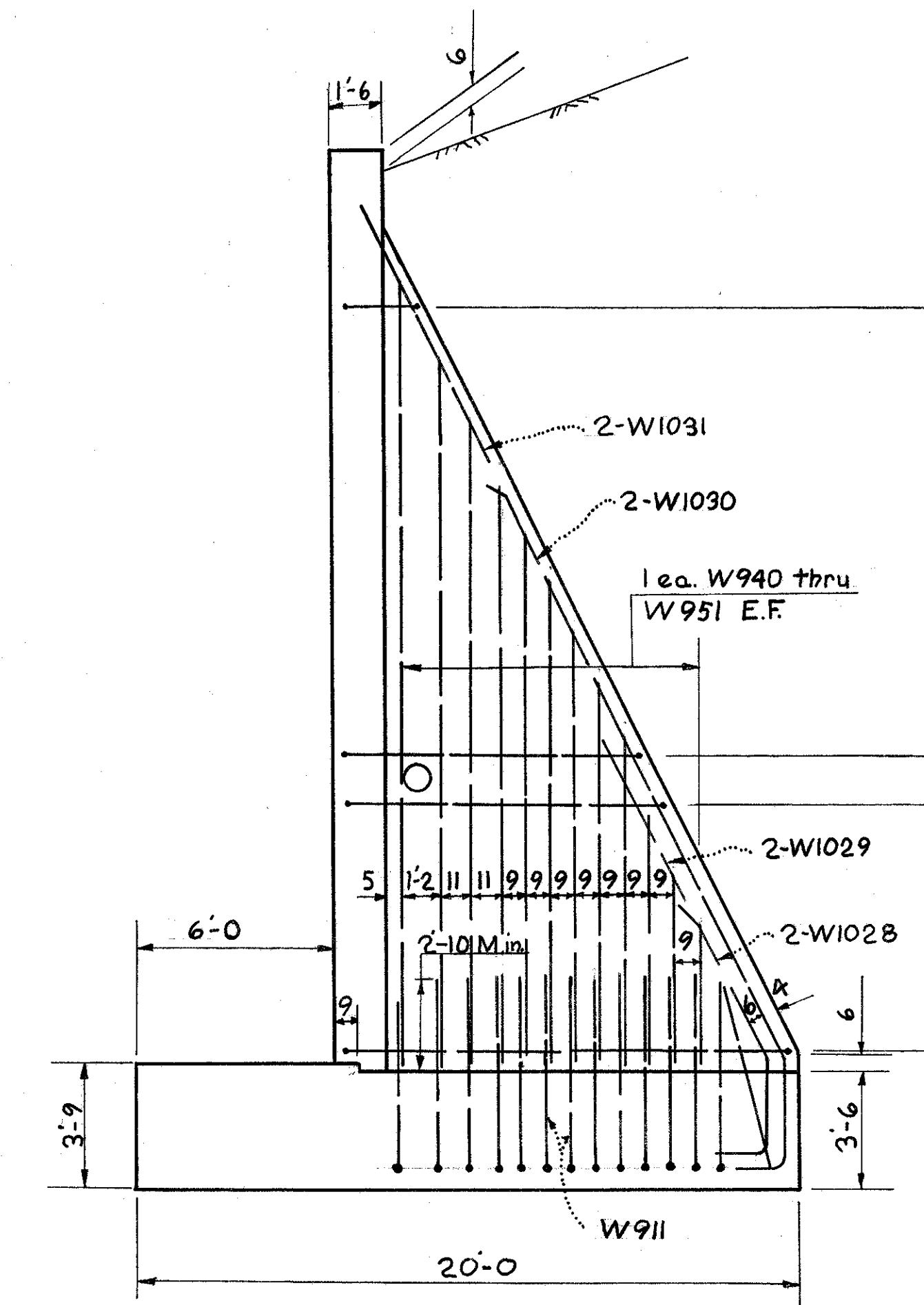
CD. RD. VISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

88
873

HAMILTON COUNTY
HAM-264-09.41



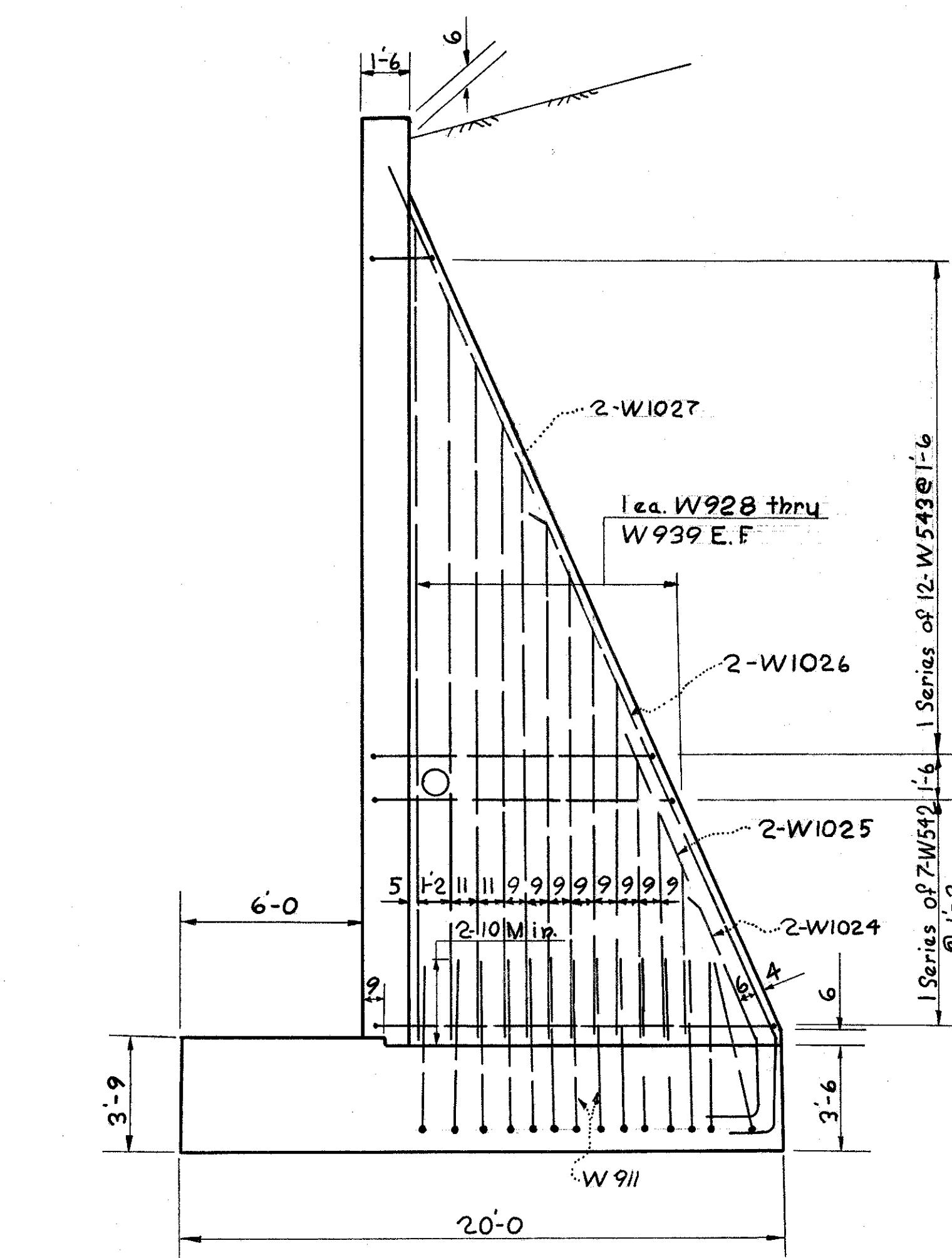
SECTION D-D



SECTION C-C

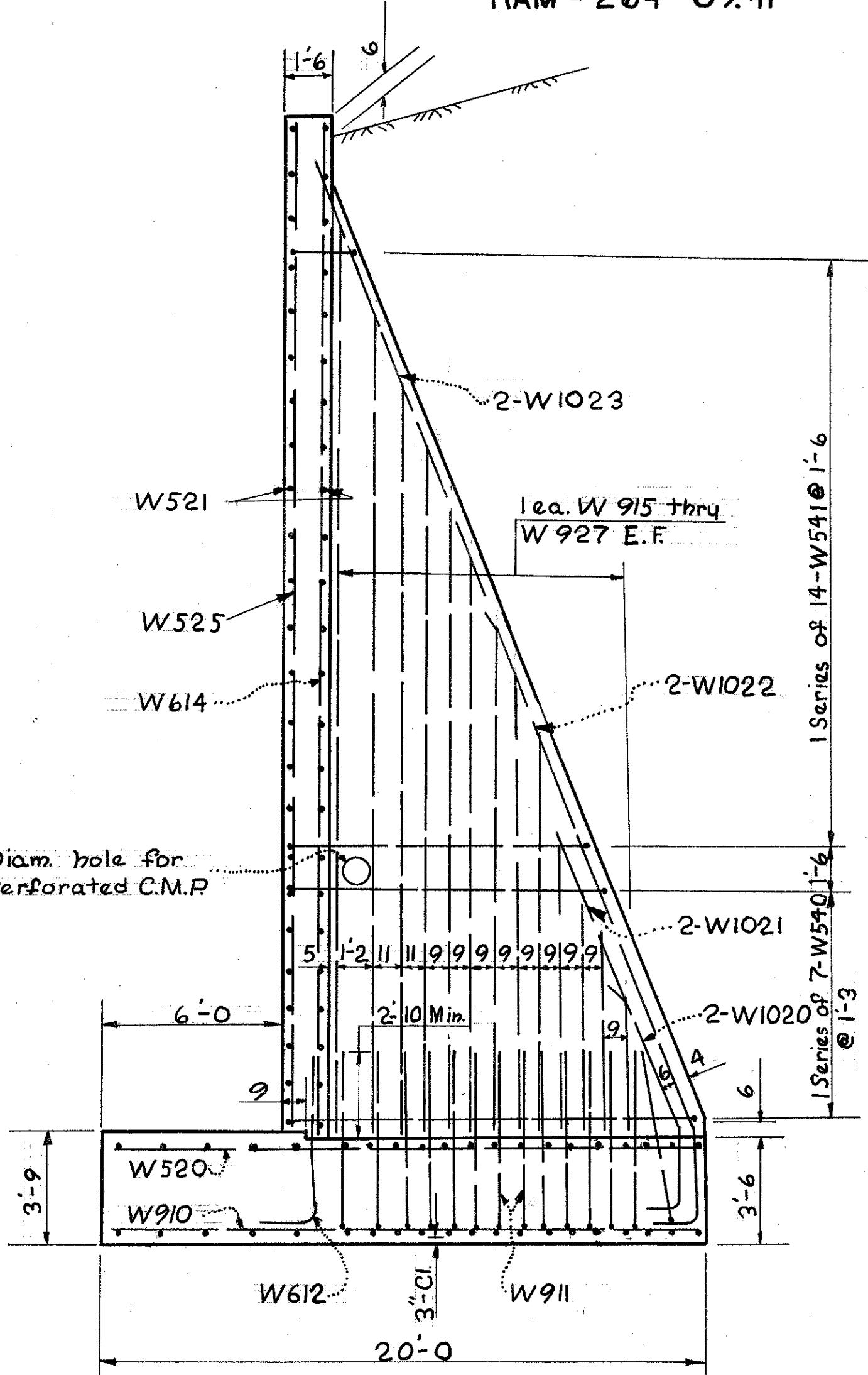
For details not shown see Section A

(For details not shown see Section A)

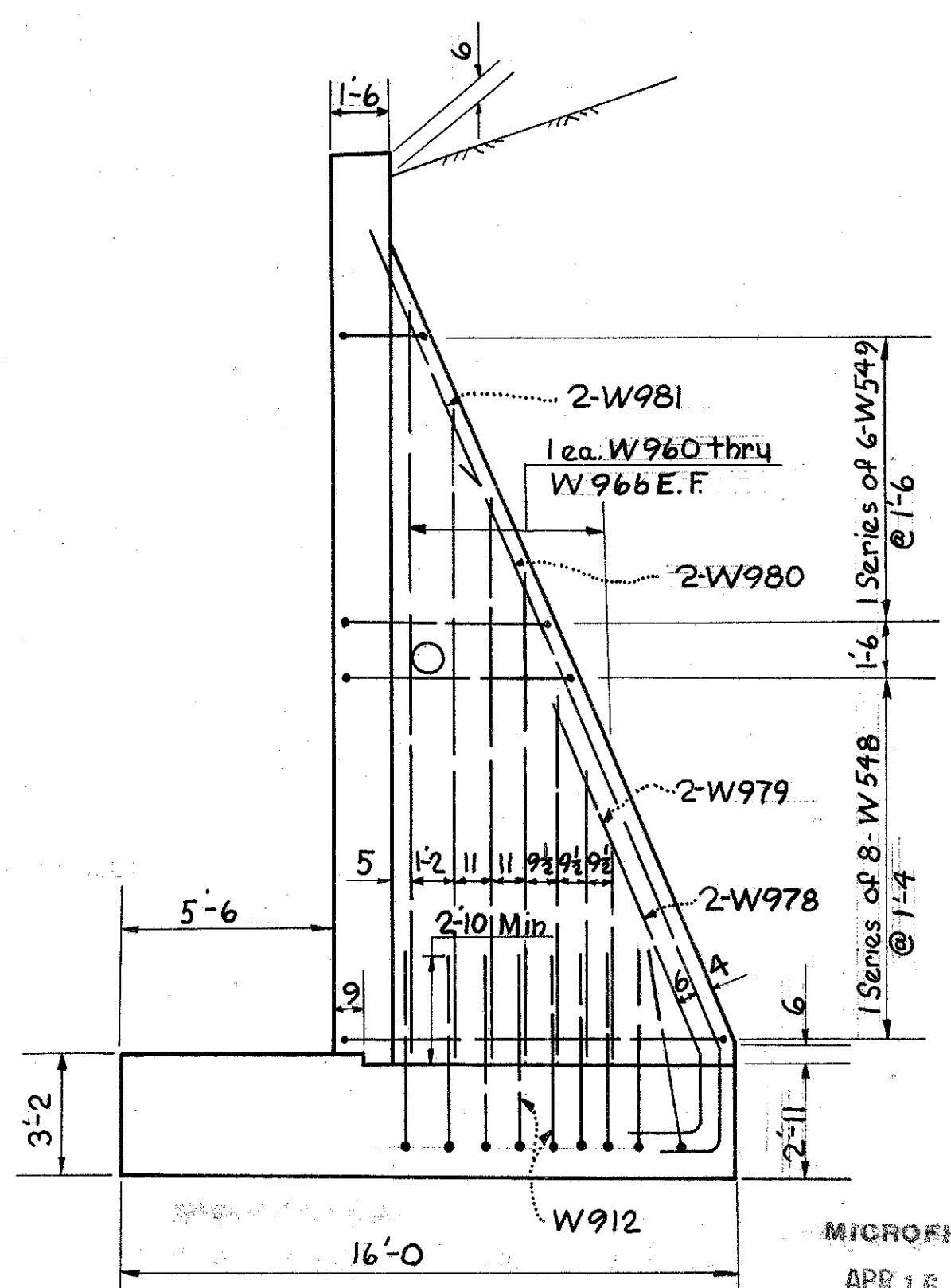


SECTION B-F

(For details not shown see Section A-A)



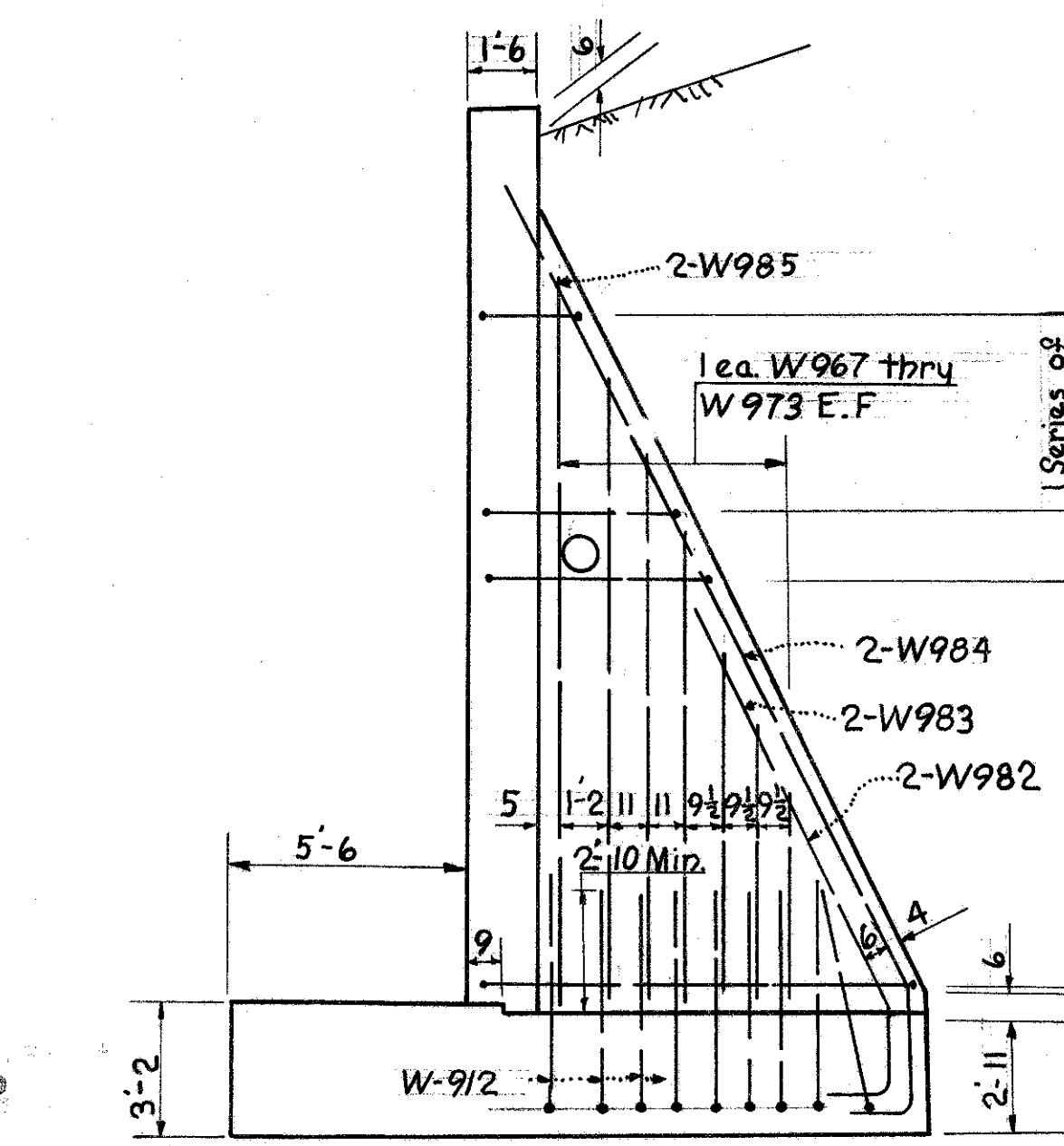
SECTION A-A



SECTION E-E

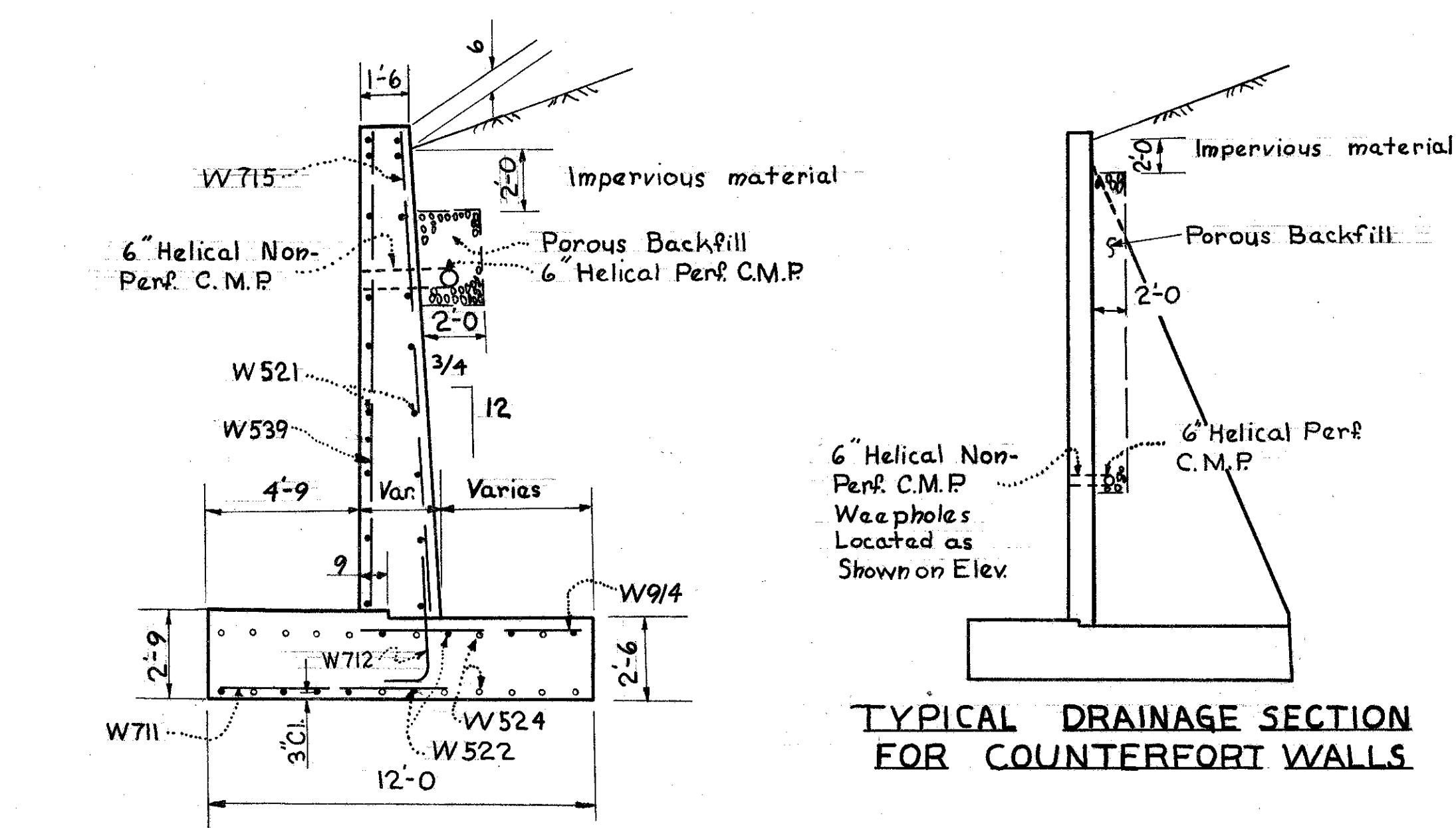
(For details not shown see Section D-D)

(For details not shown see Section D-D)



SECTION F

(For details not shown see Section D-I)



TYPICAL DRAINAGE SECTION FOR COUNTERFORT WALLS

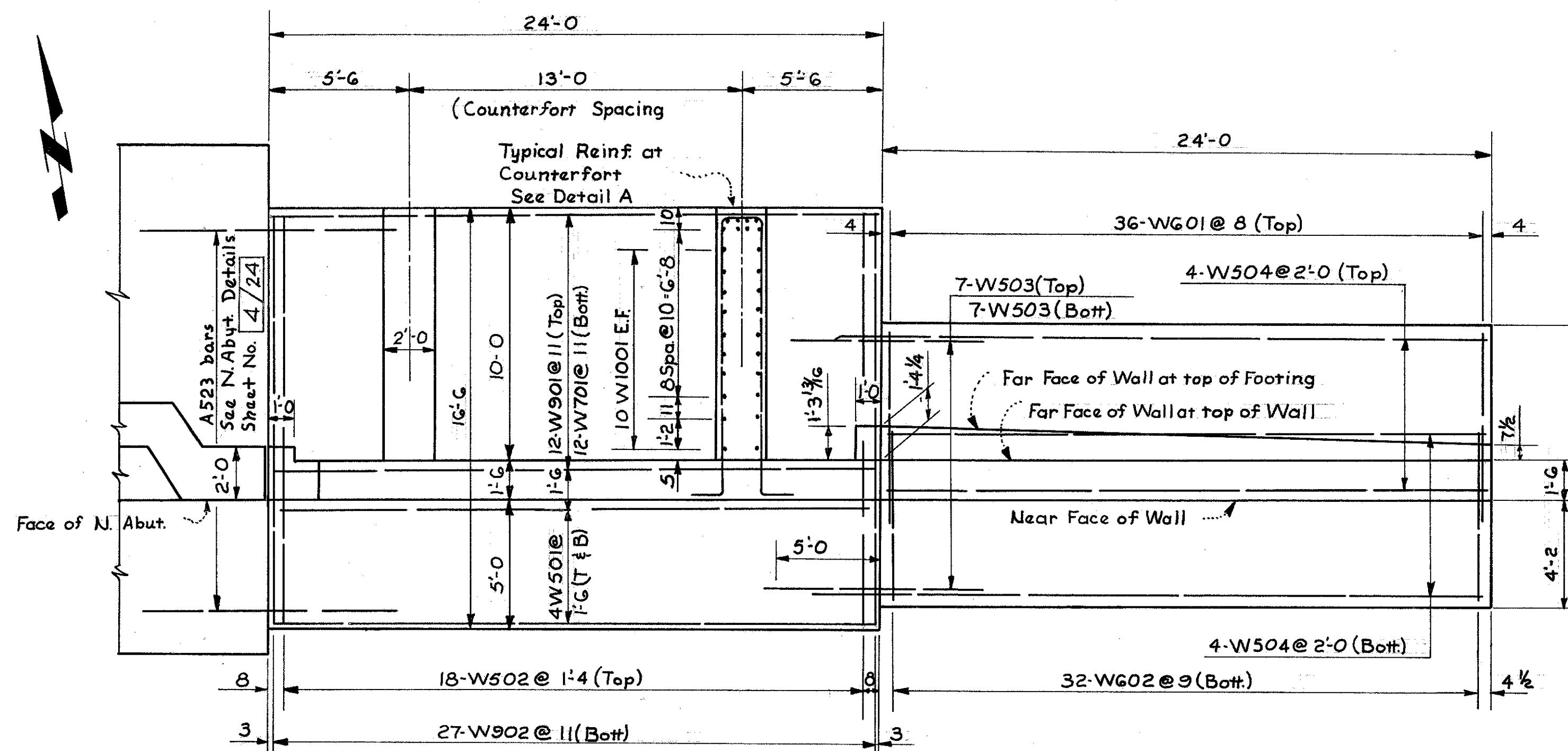
SECTION G-G

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DIVISION OF ENGINEERING

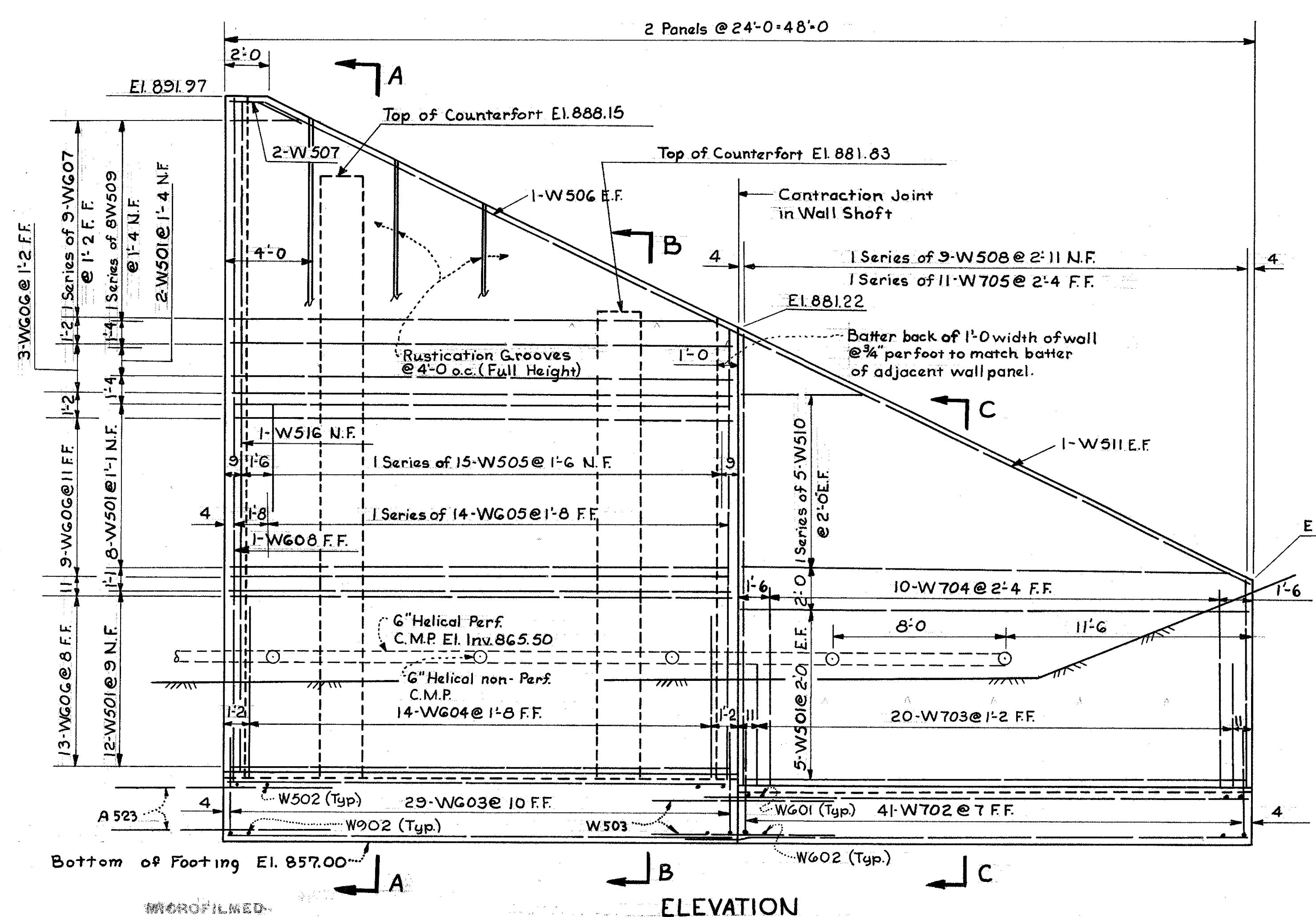
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

39
73

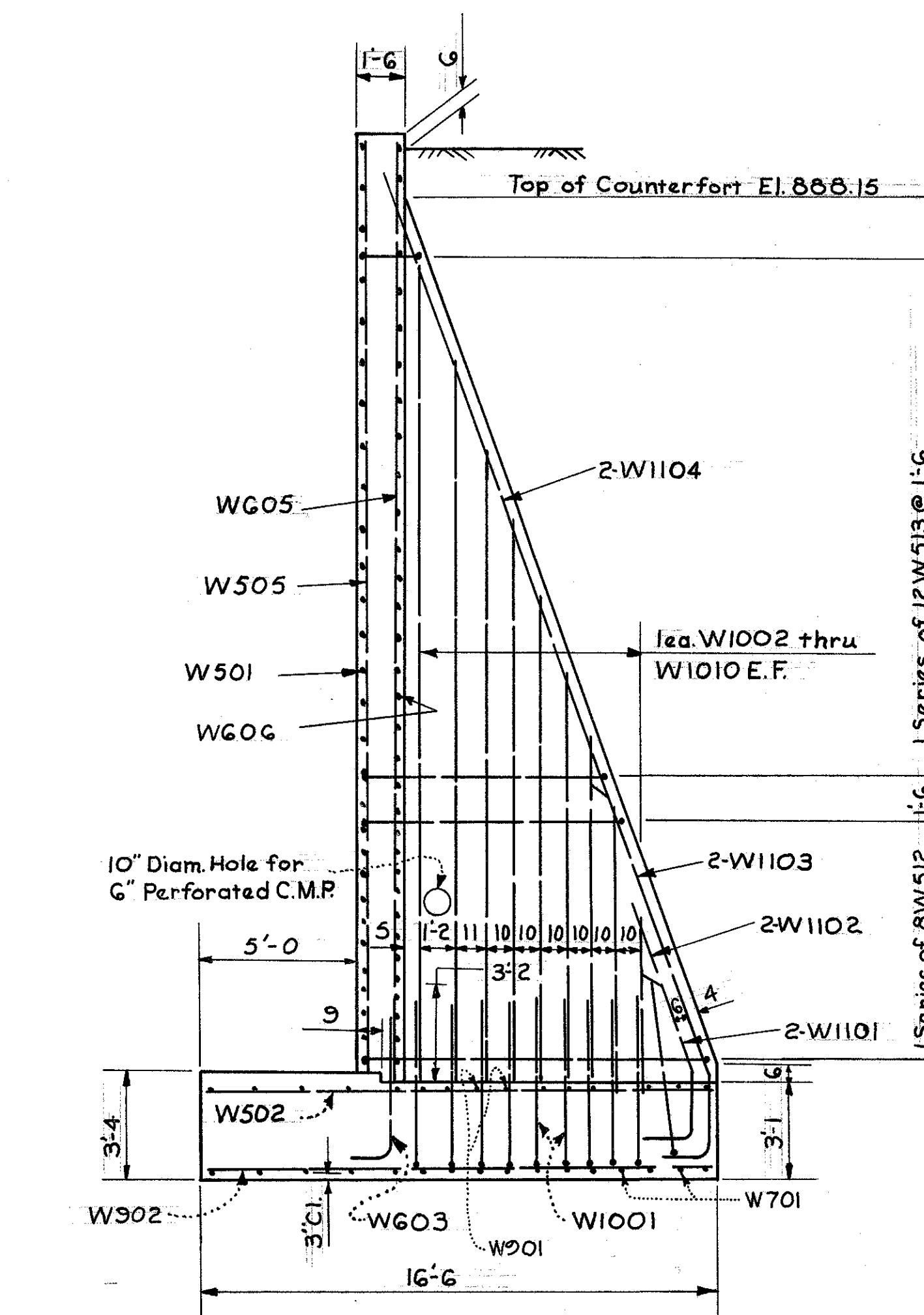
**HAMILTON COUNTY
HAM-264-09.41**



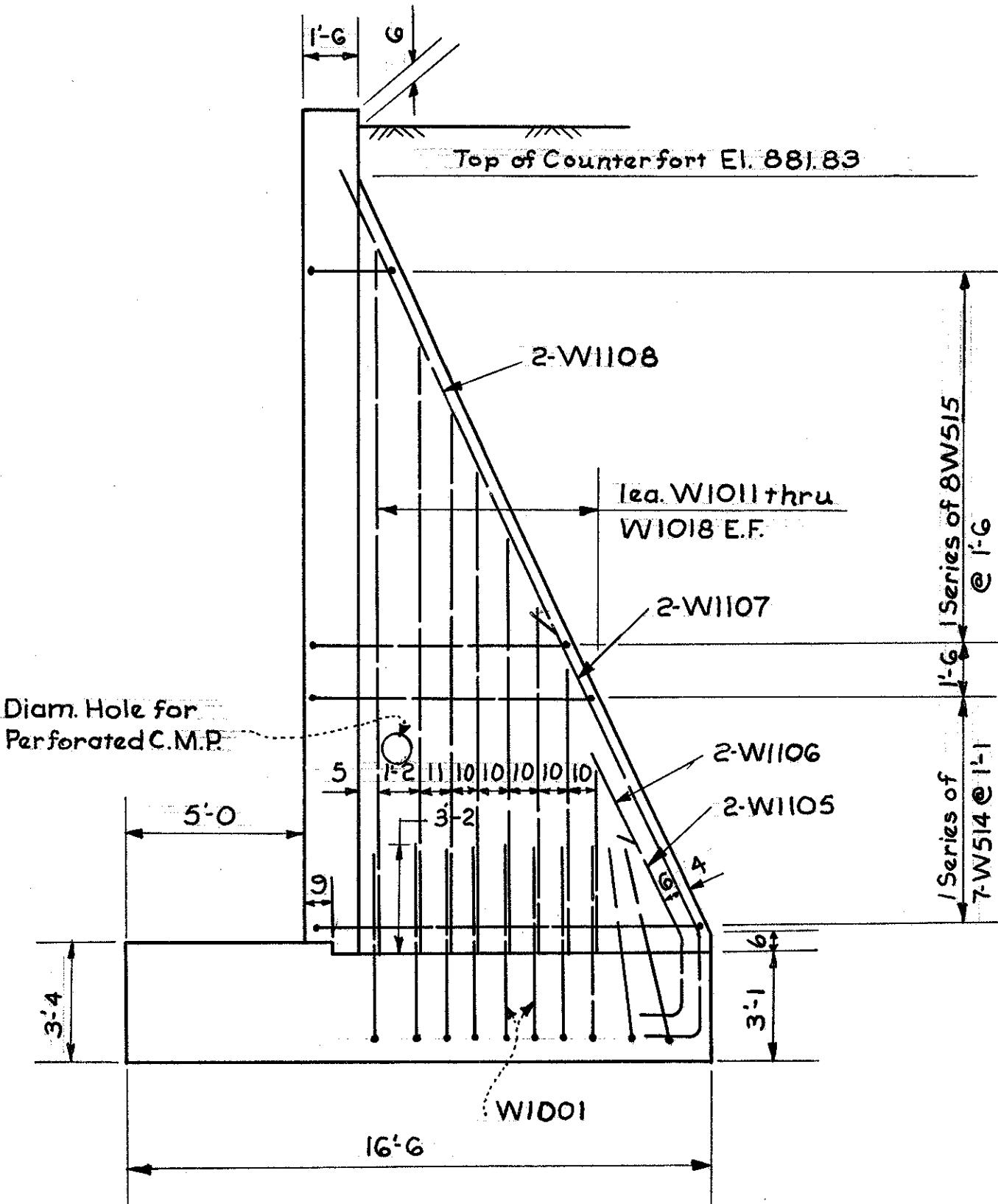
PLAN



ELEVATION

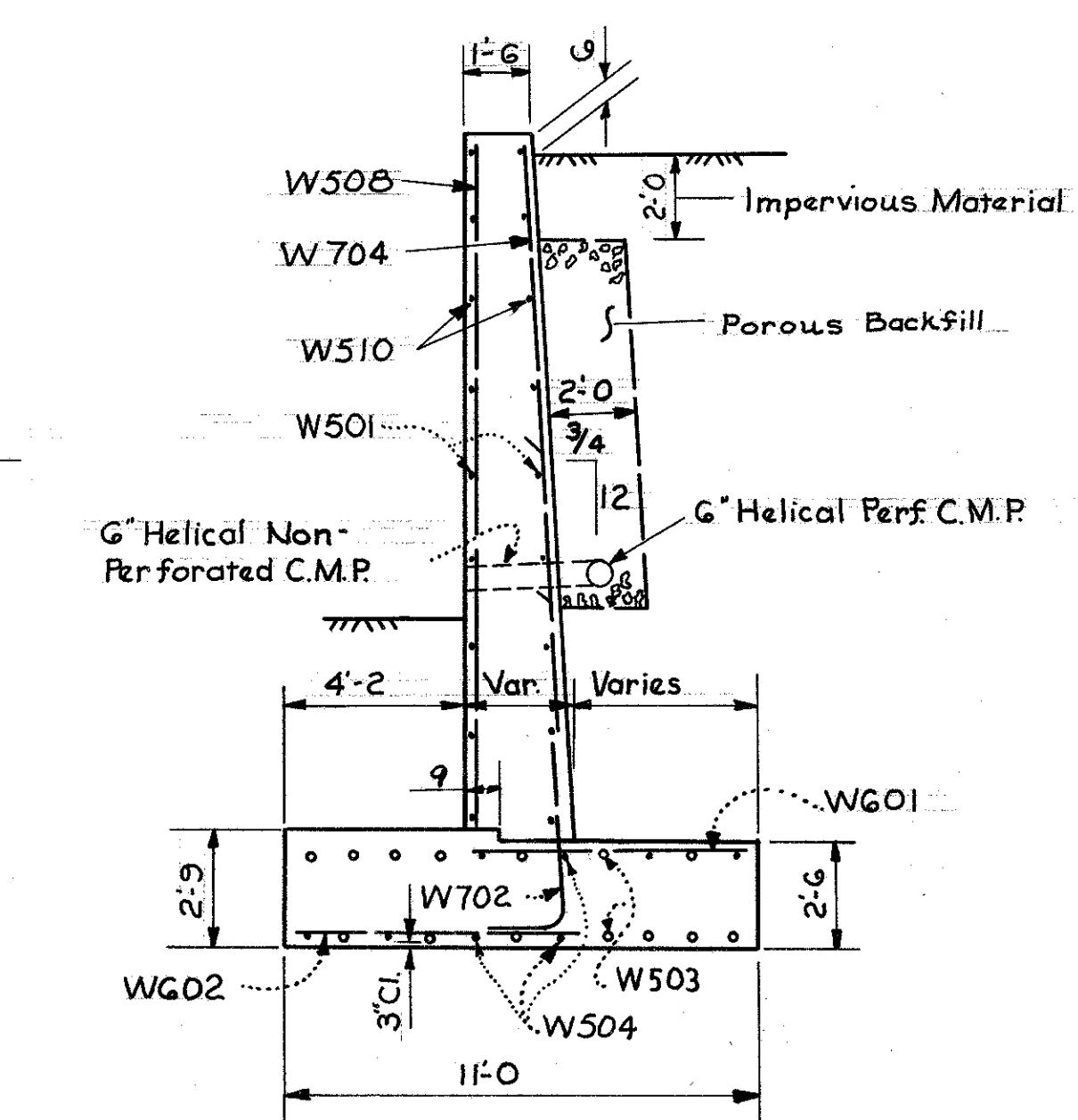


SECTION A



SECTION B-B

(For details not shown see Section A-A)



DETAIL

SECTION C.

**CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING**

WING WALL NO?

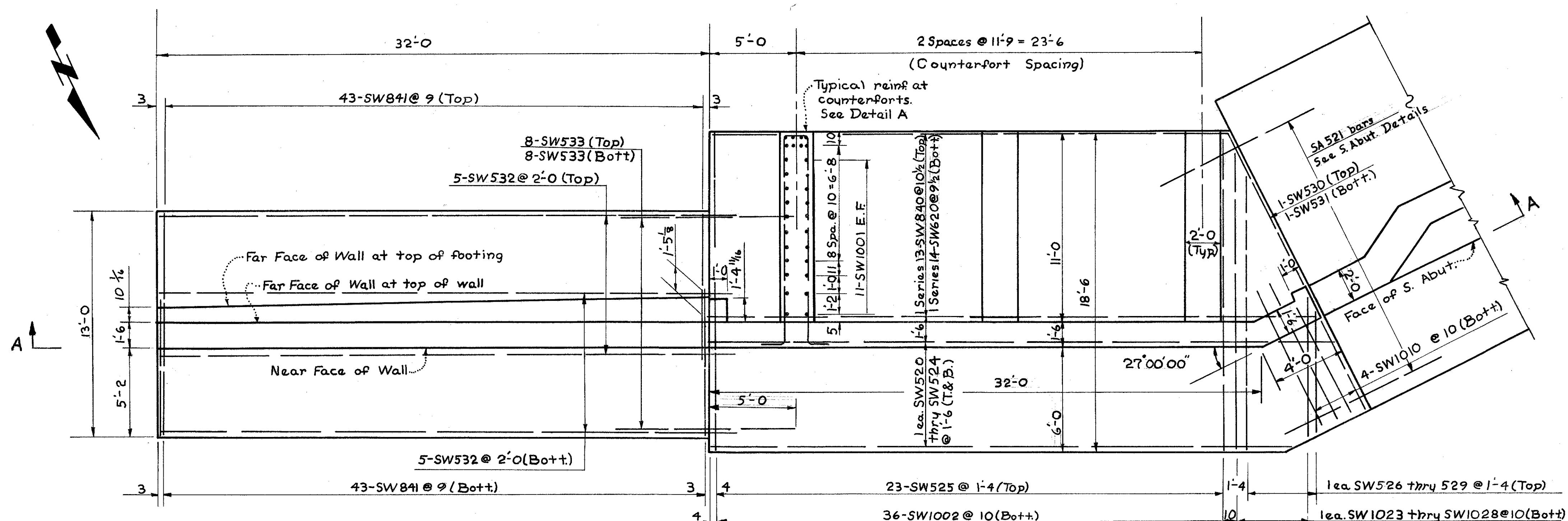
BRIDGE NO. HAM-264-104
GLENWAY AVE. BRIDGE
OVER C & O RAILWAY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
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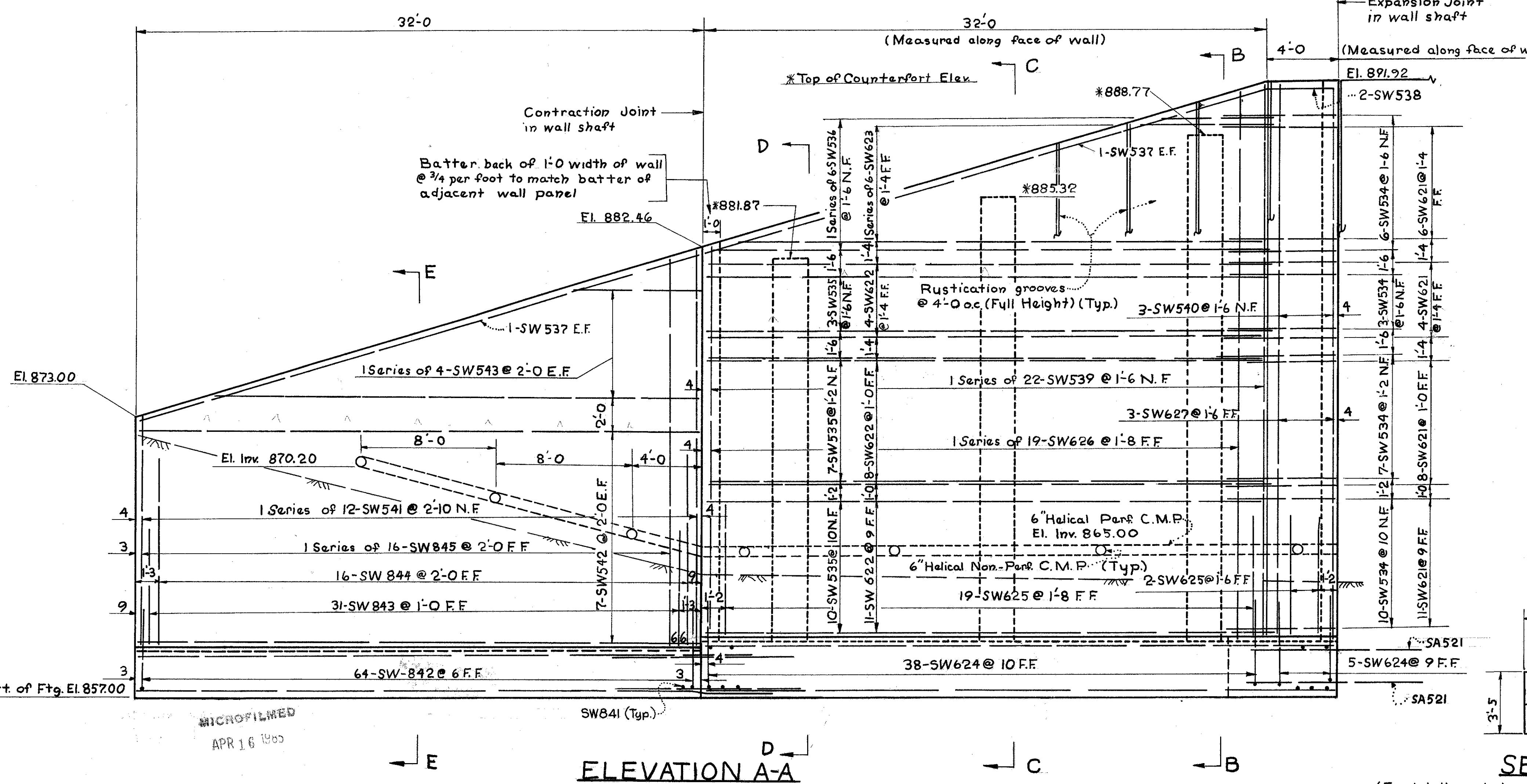
O. RD. VISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

0
73

AMILTON COUNTY
IAM-264-09.41



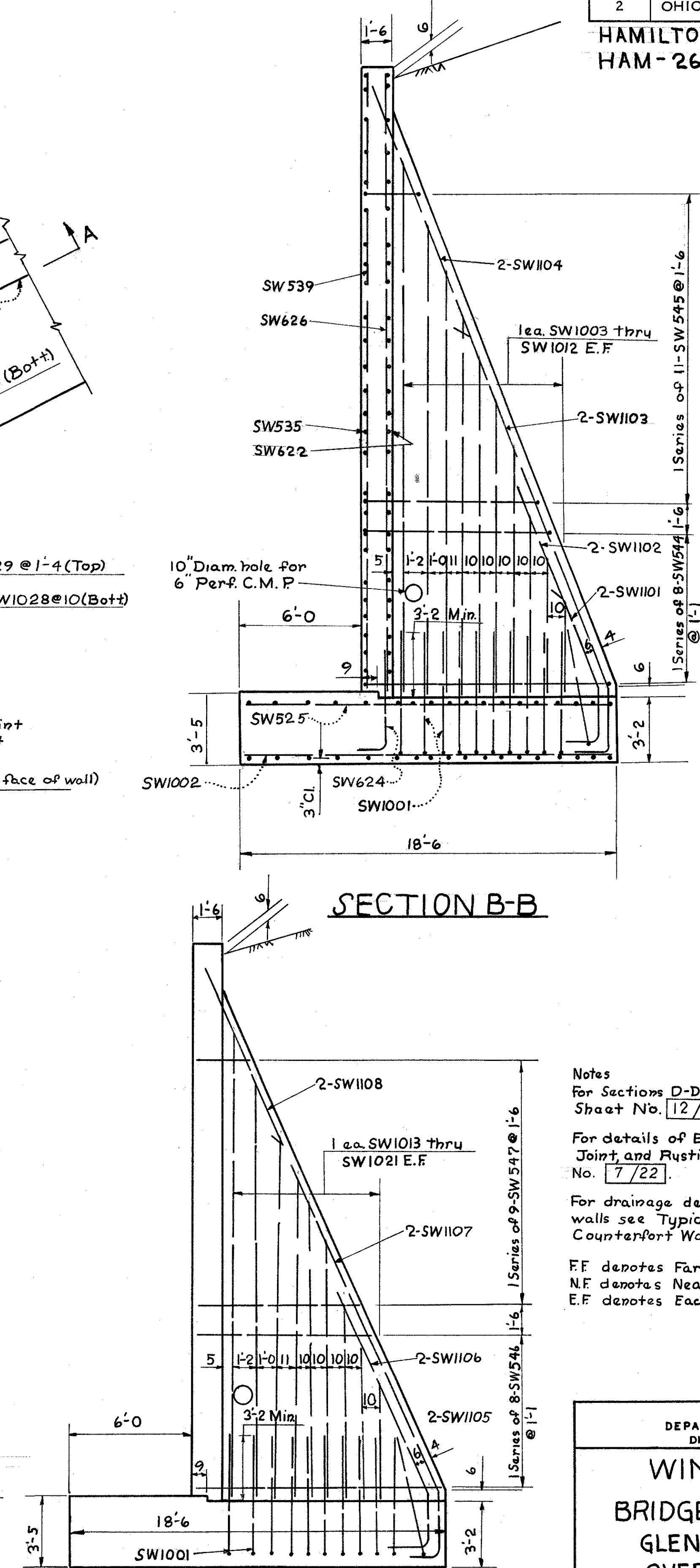
PLAN



ELEVATION A

SECTION C-C

(For details not shown see Section B-B)



SECTION B-B

otes
or Sections D-D and E-E and detail A see
sheet No. 12/22

or details of Expansion Joint, Contraction
Joint, and Rustication Grooves see Sheet
7 /22

or drainage details behind counterfort walls see Typical Drainage Section For Counterfort Walls Sheet No 9 / 22

F denotes Far Face
 F denotes Near Face
 F denotes Each Face

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

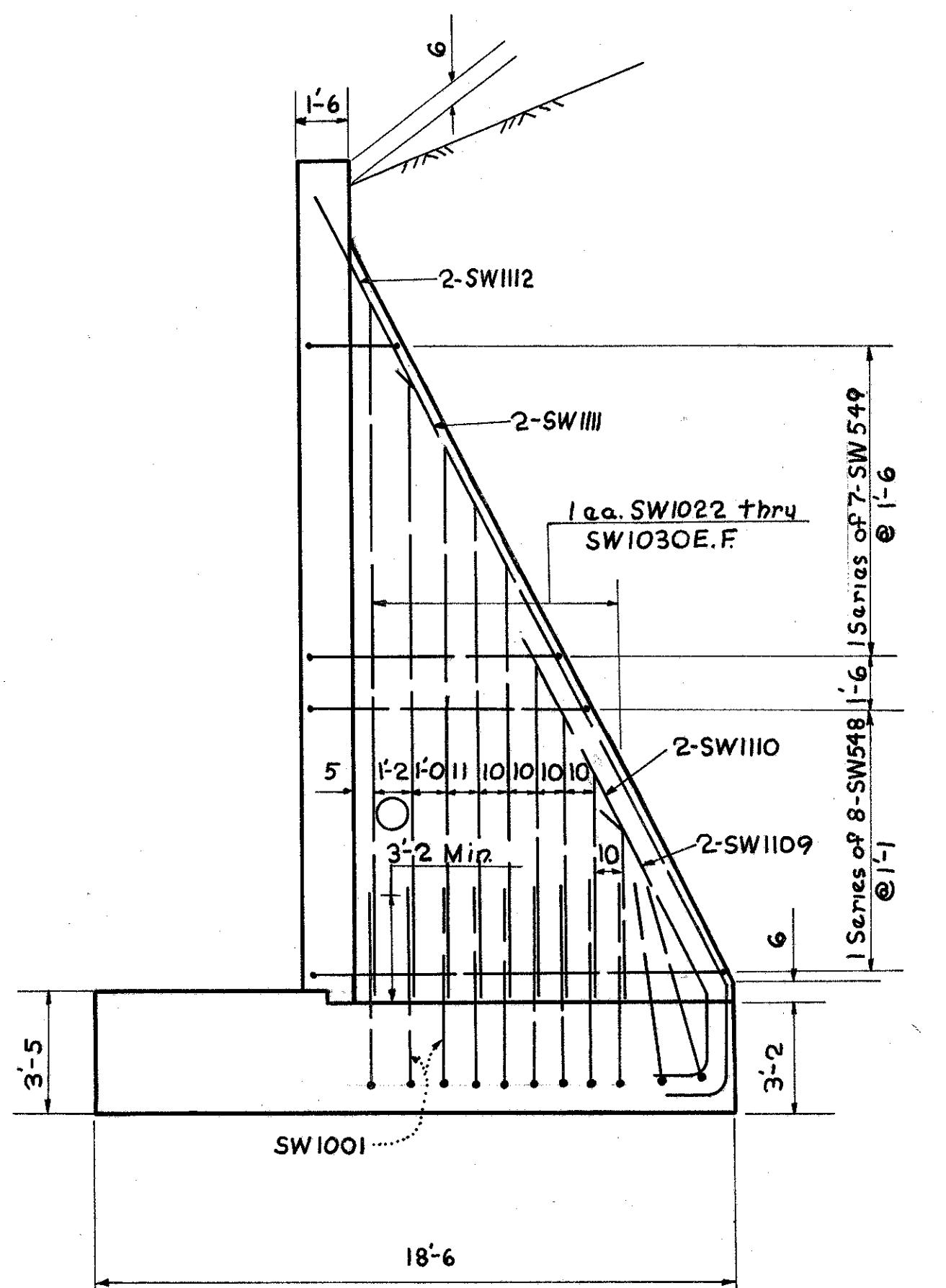
WING WALL NO. 3

BRIDGE NO. HAM-264-1044
GLENWAY AVE BRIDGE
OVER C & O RAILWAY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
W.W.	W.W.	L.A.L.	G.C.H.	W.W.	8-24-72	

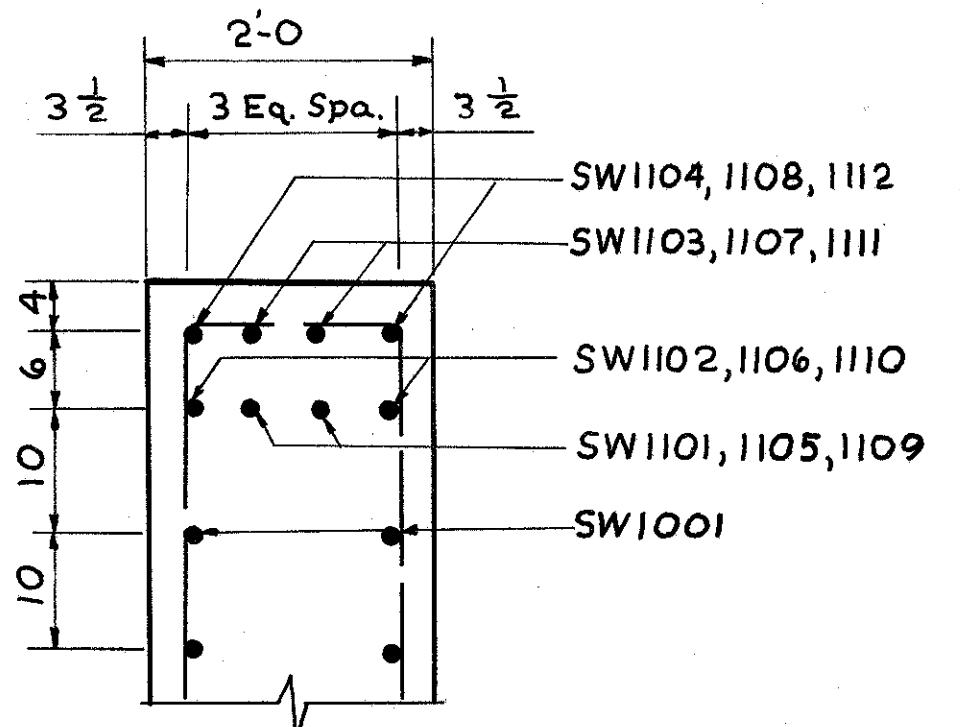
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		91 273

HAMILTON COUNTY
HAM-264-09.41

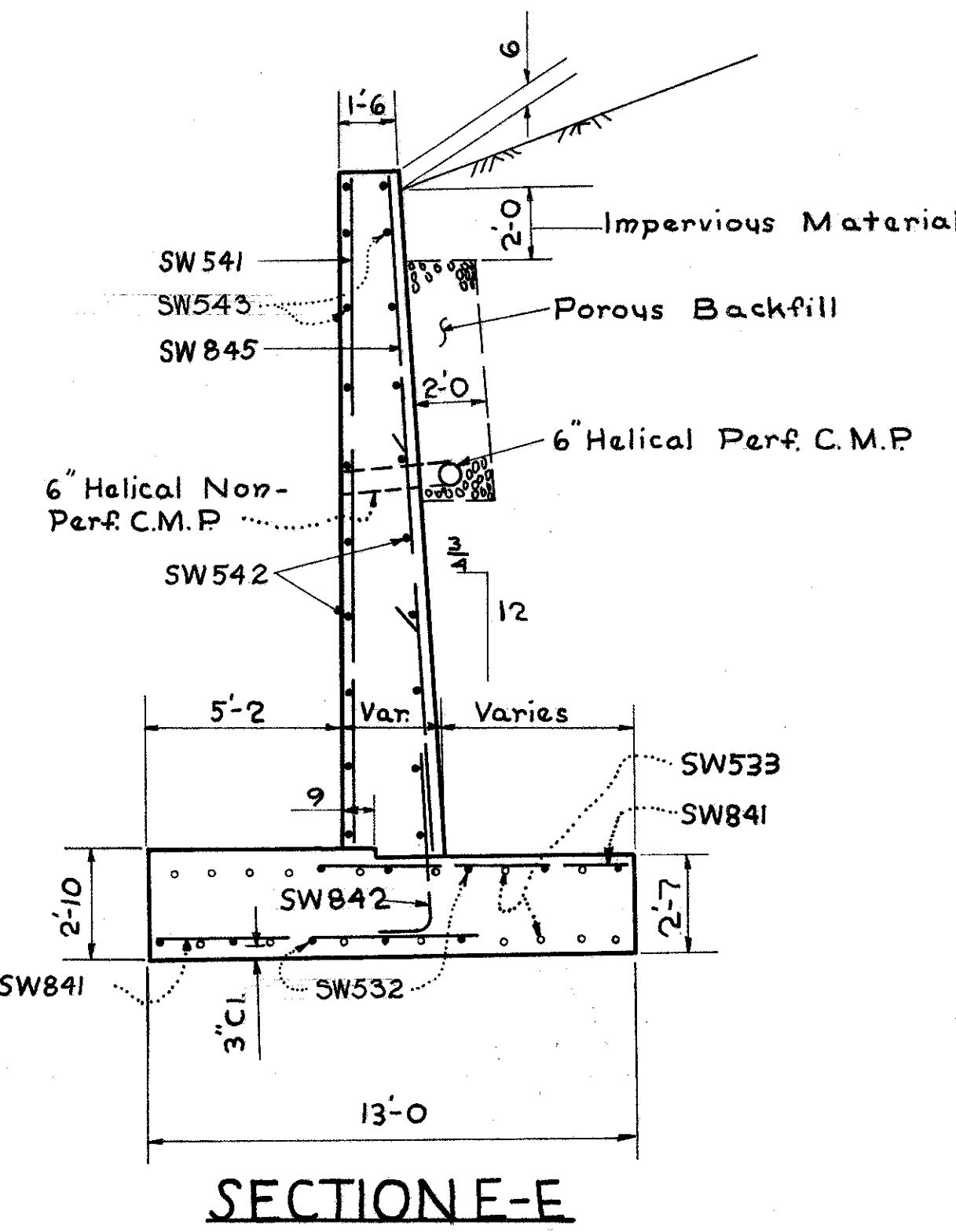


SECTION D-D

(For details not shown see Section B-B Sheet No. 11/22)



DETAIL A



SECTION E-E

MICRO FILMED
APR 18 1985

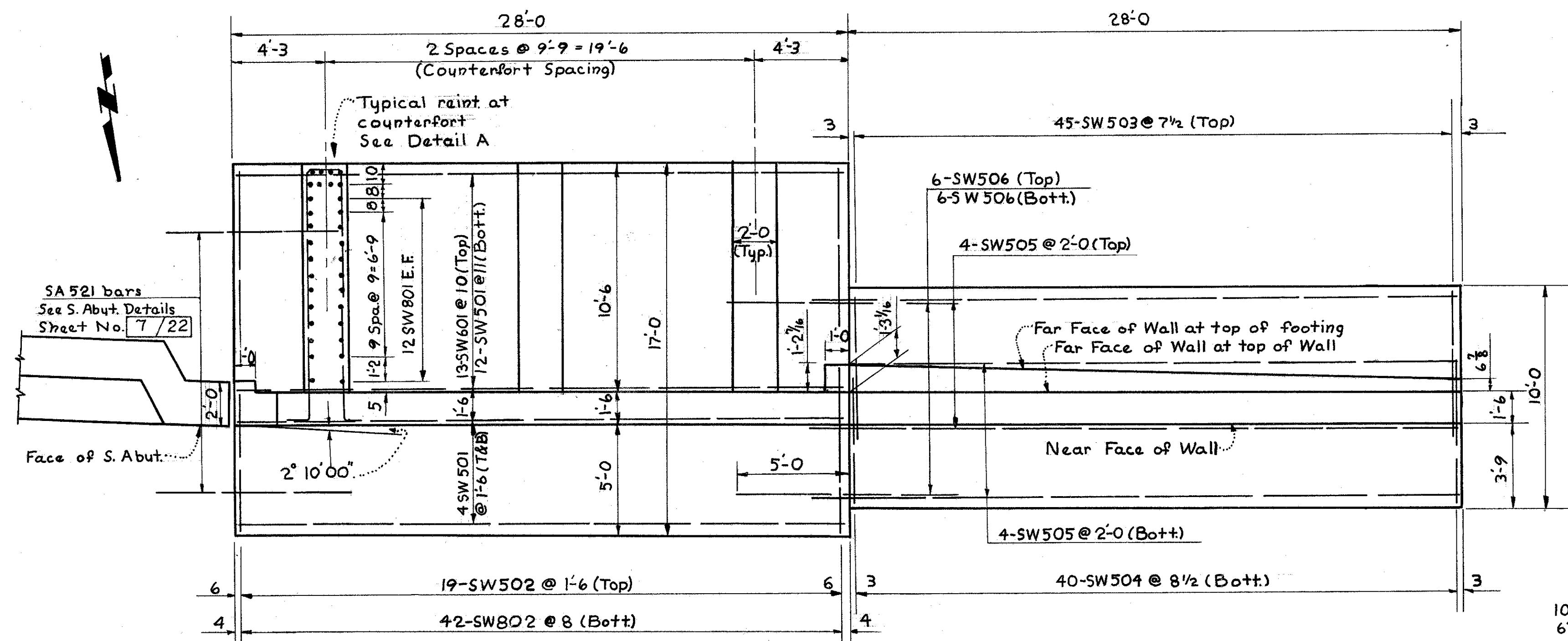
CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING
12/22

WING WALL NO.3
BRIDGE NO. HAM-264-1044
GLENWAY AVE BRIDGE
OVER C & O RAILWAY

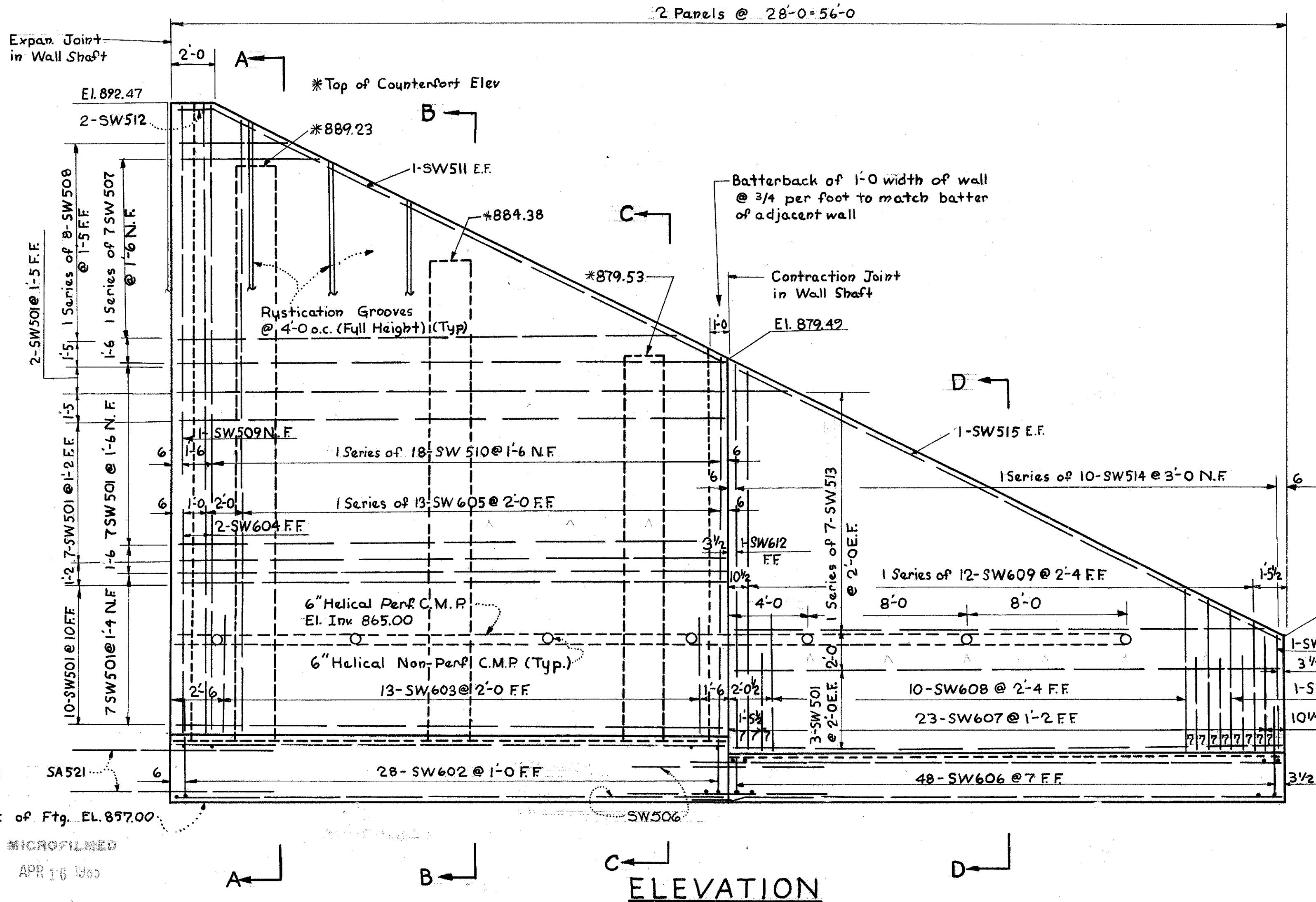
DESIGNED W.W.	DRAWN W.W.	TRACED LAL	CHECKED G.C.H.	REVIEWED W.W.	DATE 8-24-72	REVISED
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FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		

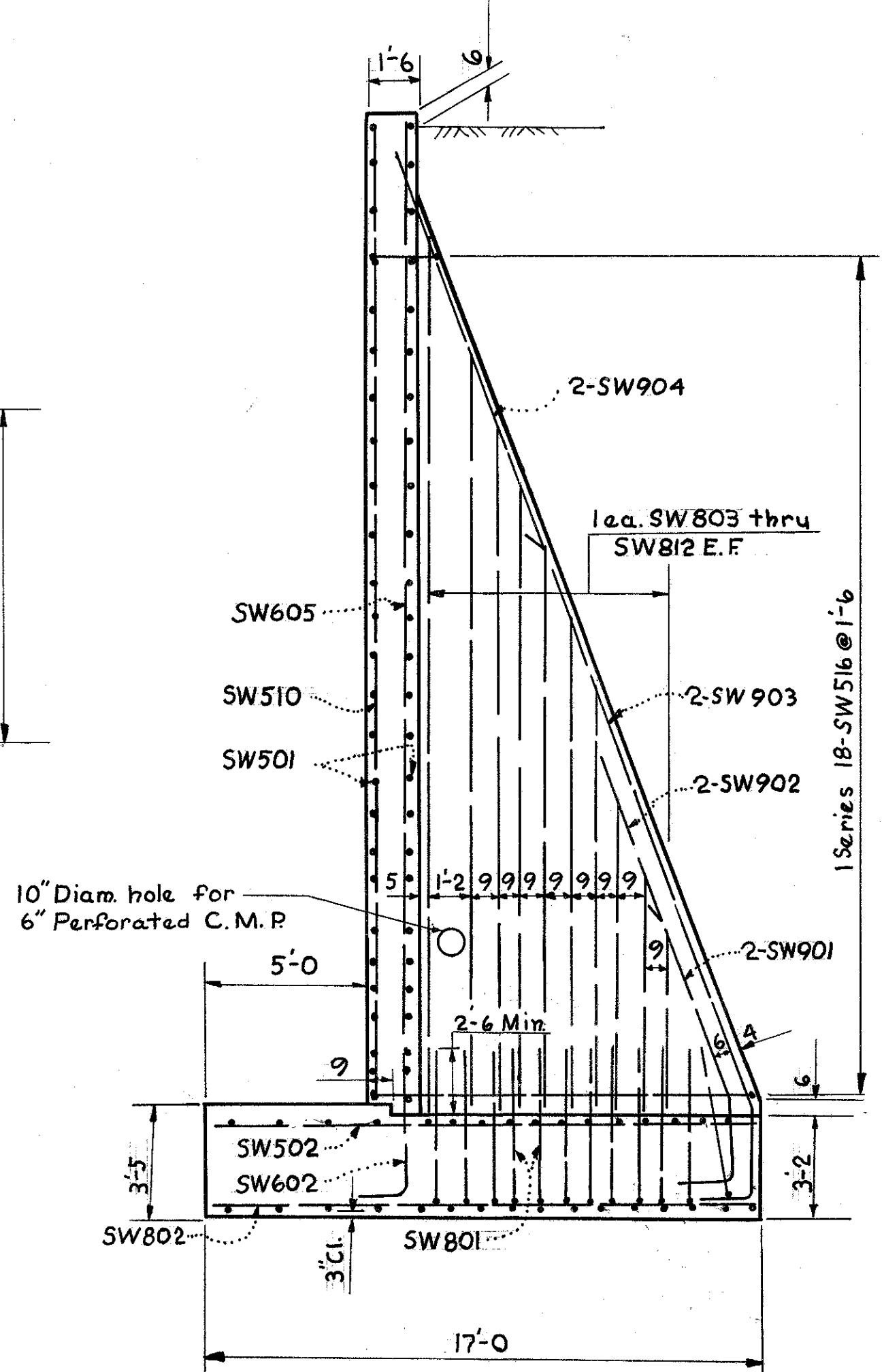
HAMILTON COUNTY
HAM-264-09.41



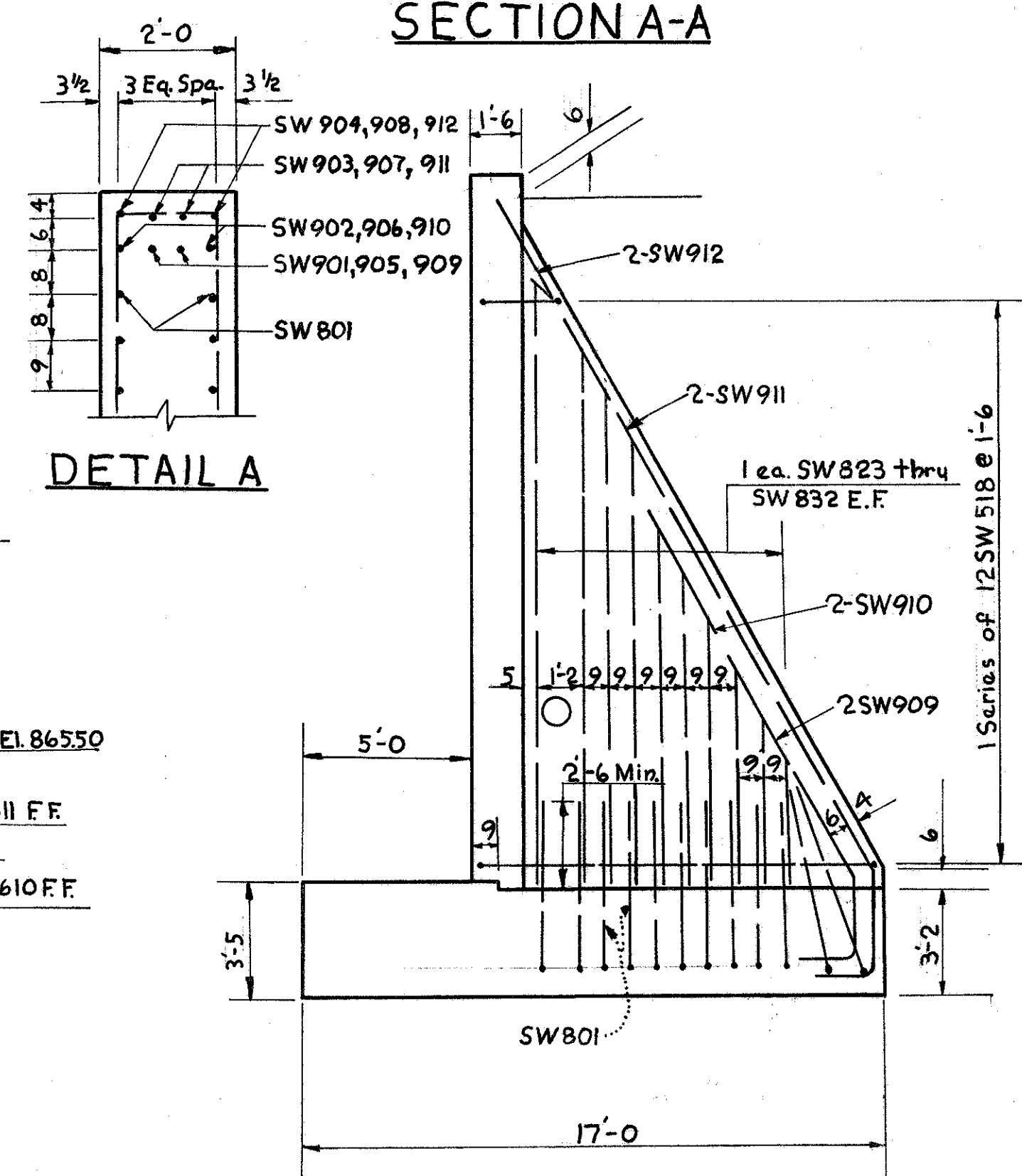
PLAN



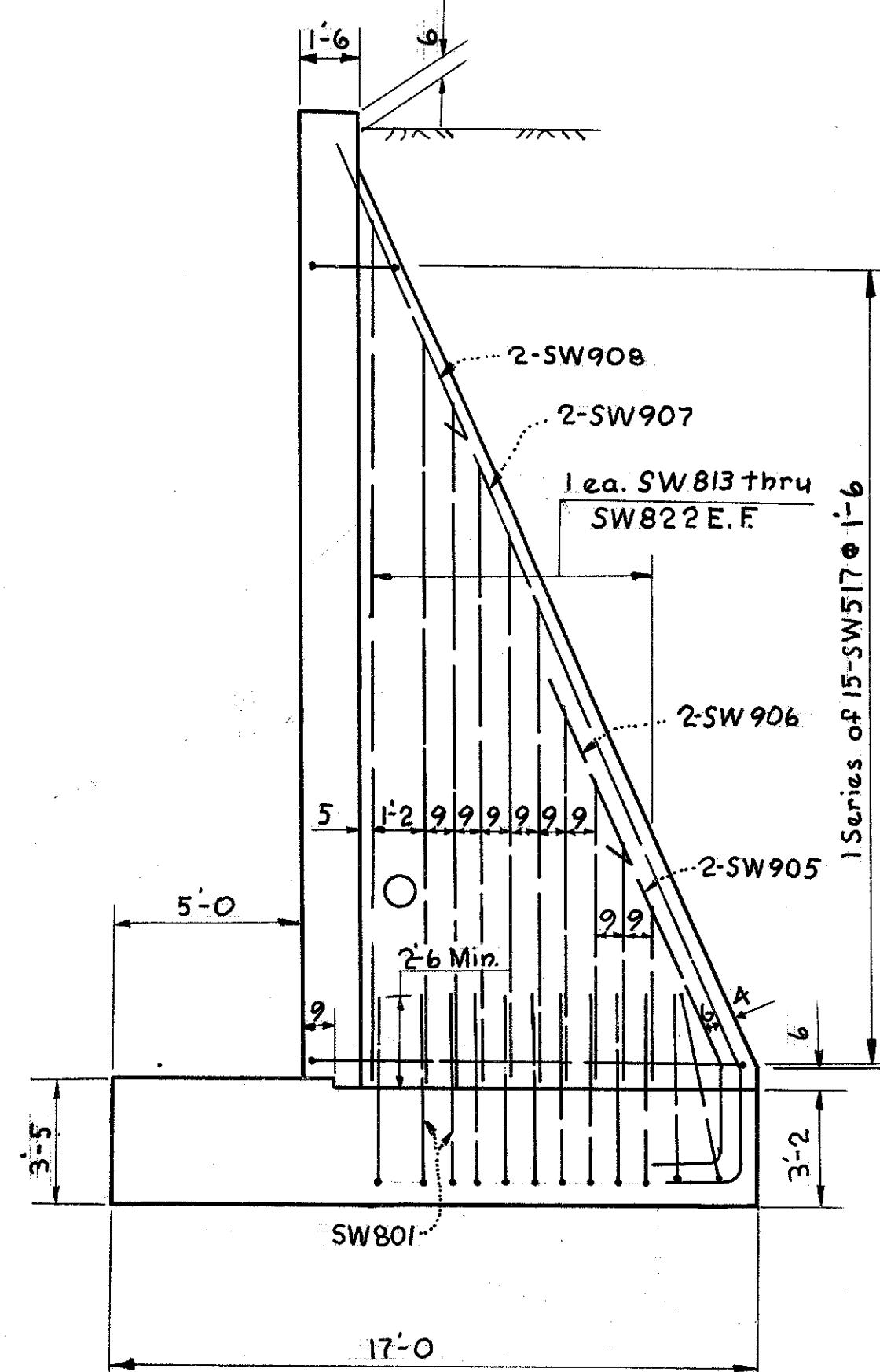
ELEVATION



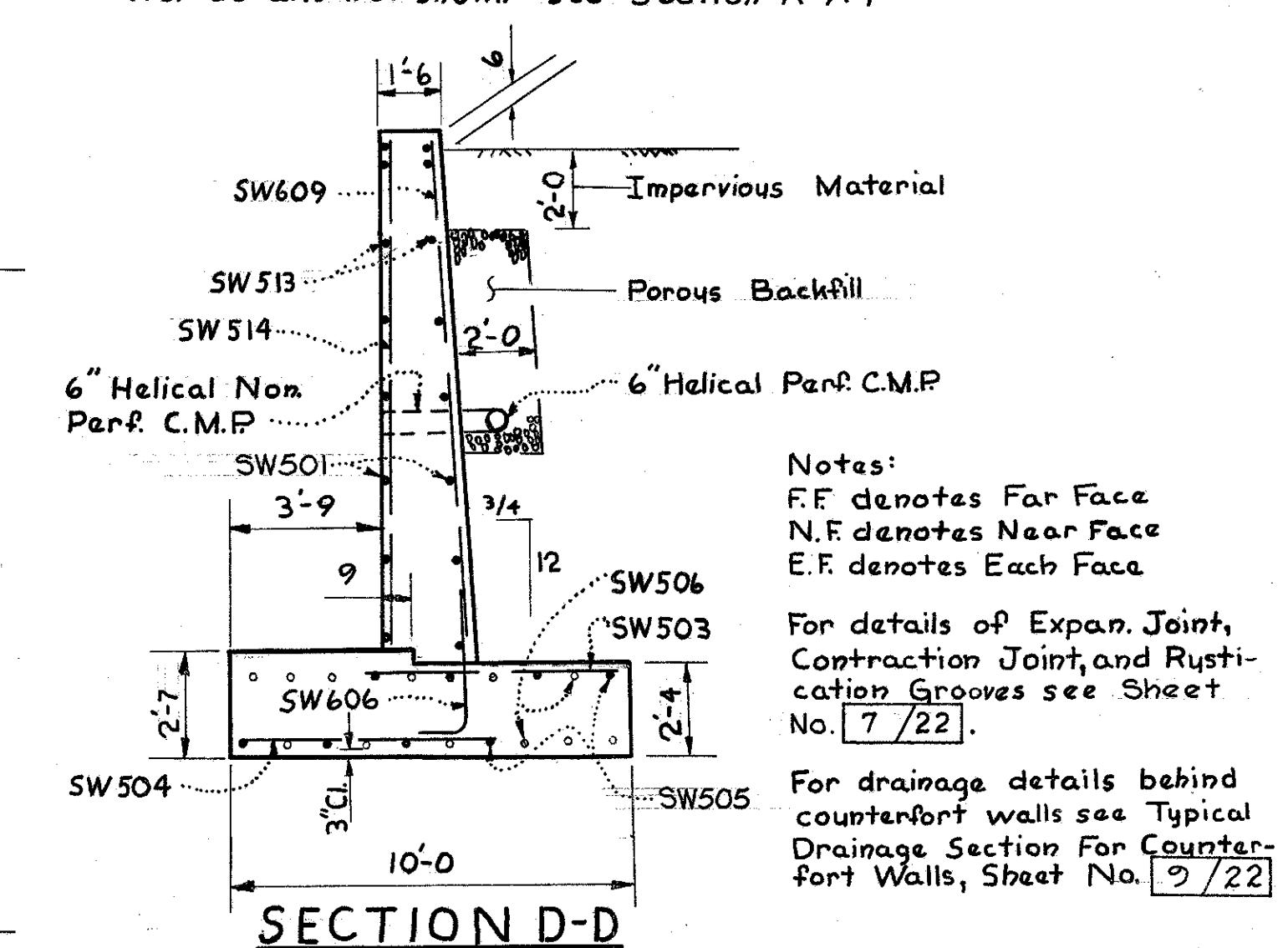
SECTION A-A



SECTION C-C



SECTION B-B



SECTION D-D

13

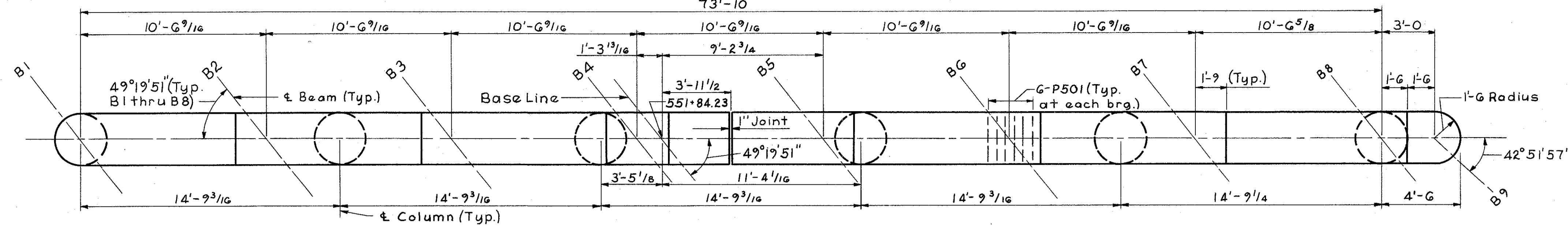
CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

WINGWALL NO. 4
BRIDGE NO. HAM-264-1044
GLENWAY AVE BRIDGE
OVER C&O RAILWAY

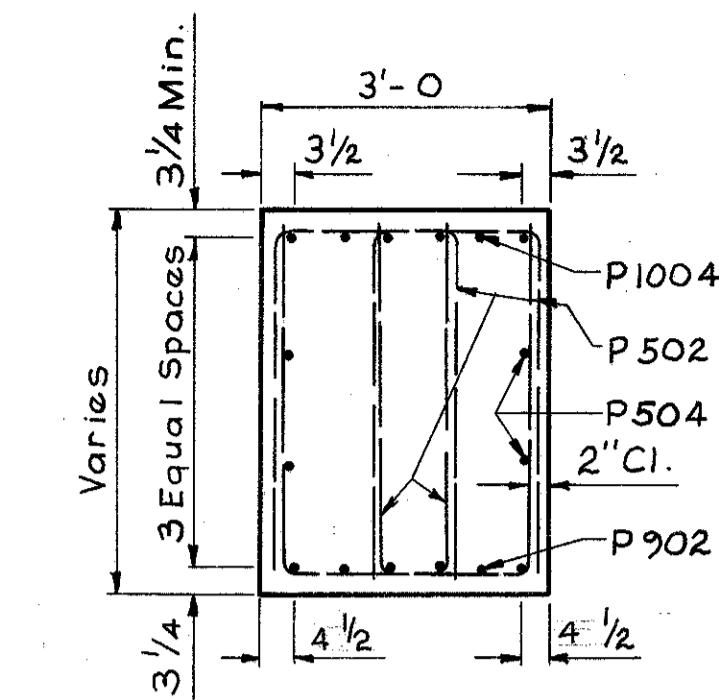
FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

3
73

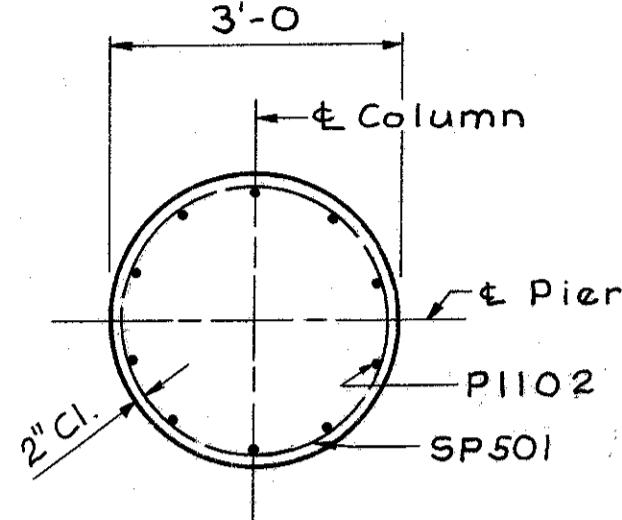
HAMILTON COUNTY
HAM - 264-09.41



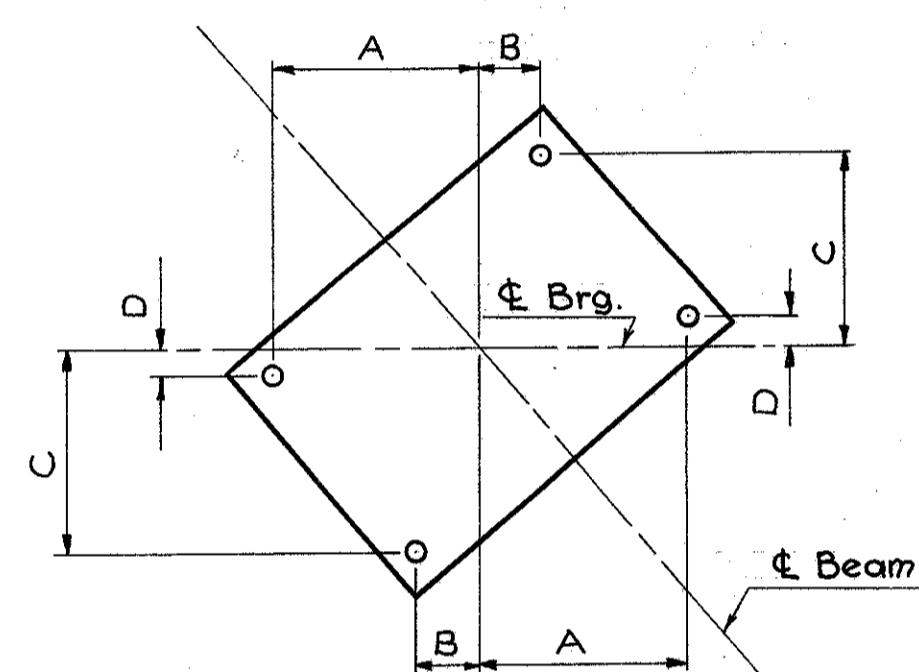
CAP PLA



SECTION A-A

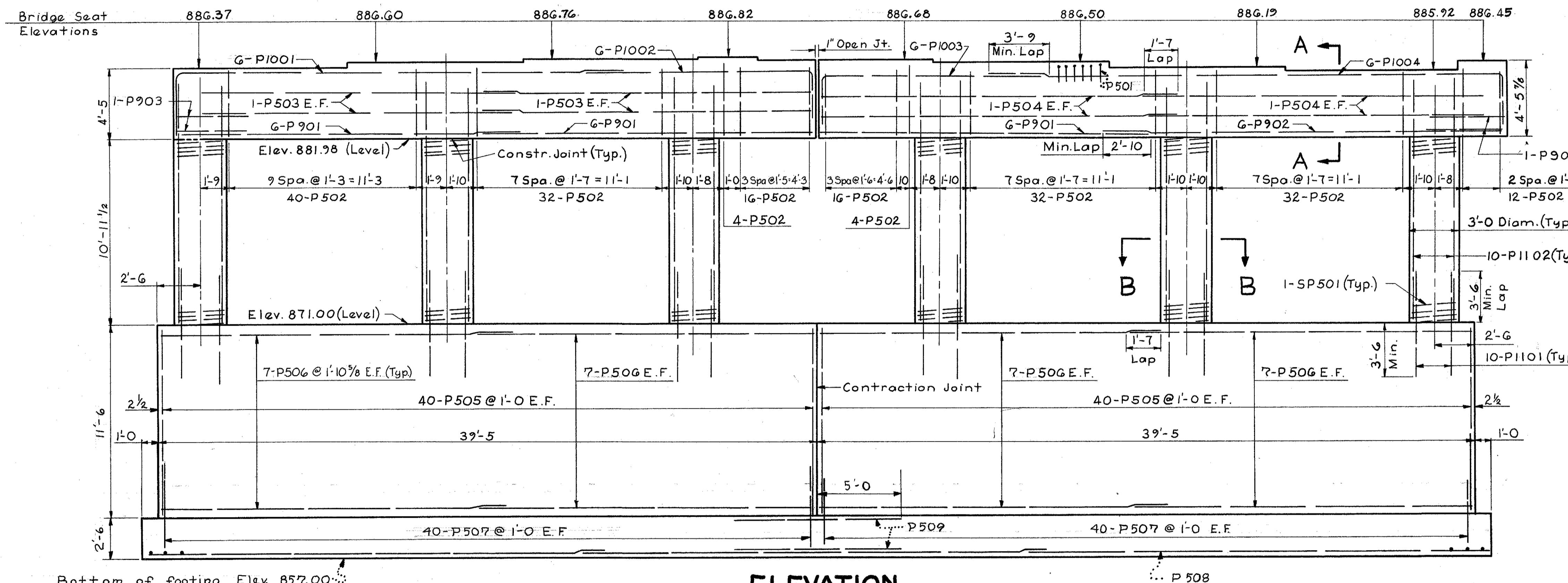


SECTION B-B

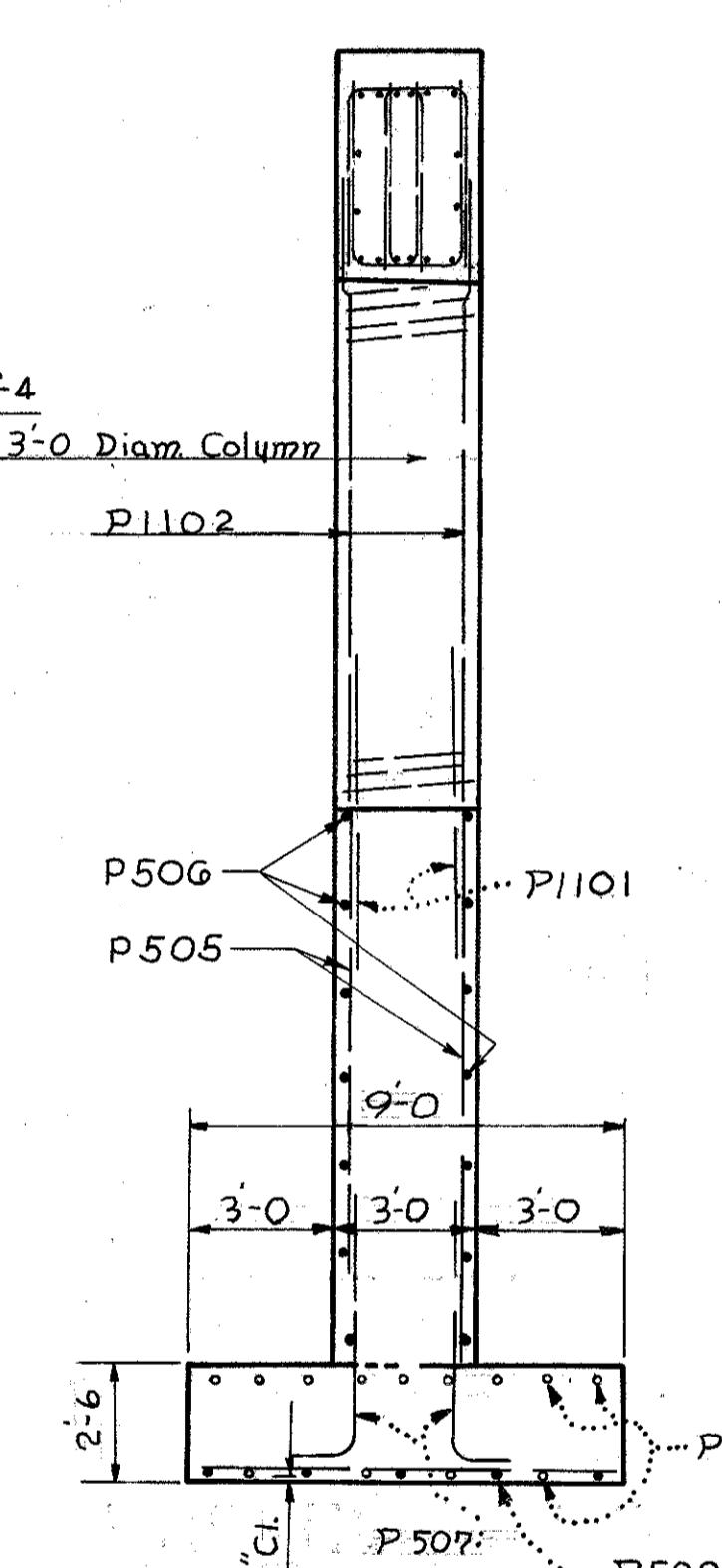


Beam	Bolster	Dimension			
		A	B	C	D
31 thru B 8	B225	1'-0 $\frac{3}{16}$	3 $\frac{3}{4}$	11 $\frac{3}{4}$	1 $\frac{15}{16}$
B 9	B100	7 $\frac{5}{16}$	2 $\frac{7}{8}$	7 $\frac{9}{16}$	3 $\frac{7}{16}$

ANCHOR BOLT LAYOUT

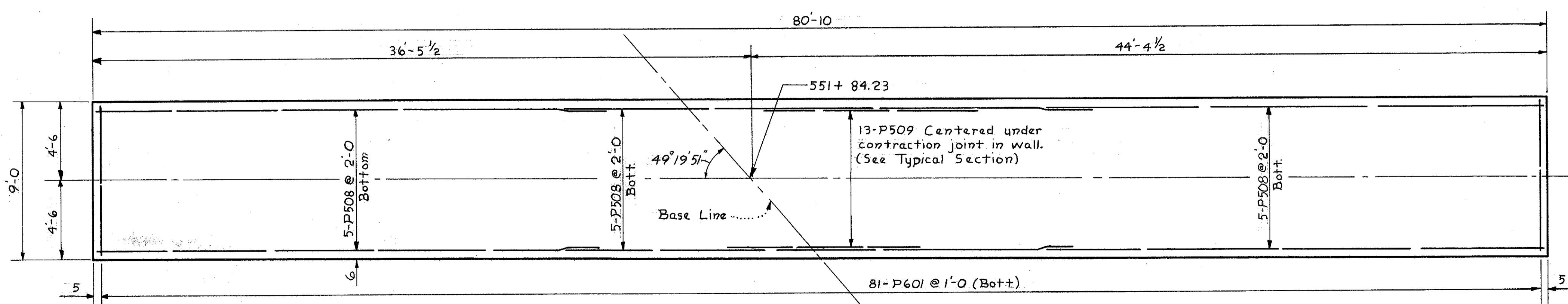


ELEVATION



31
...P508

TYPICAL SECTION



FOOTING PLA

Notes:

special care shall be taken in placing reinforcing steel in pier cap so as to avoid interference with the drilling of anchor bolt holes.

• Factors to Each Face

**CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING**

PIER DETAILS

BRIDGE NO HAM-26A-1044

GLENWAY AVE BRIDGE

GLENWAY AVE. BRIDGE

OVER C. & Q. RAILWAY

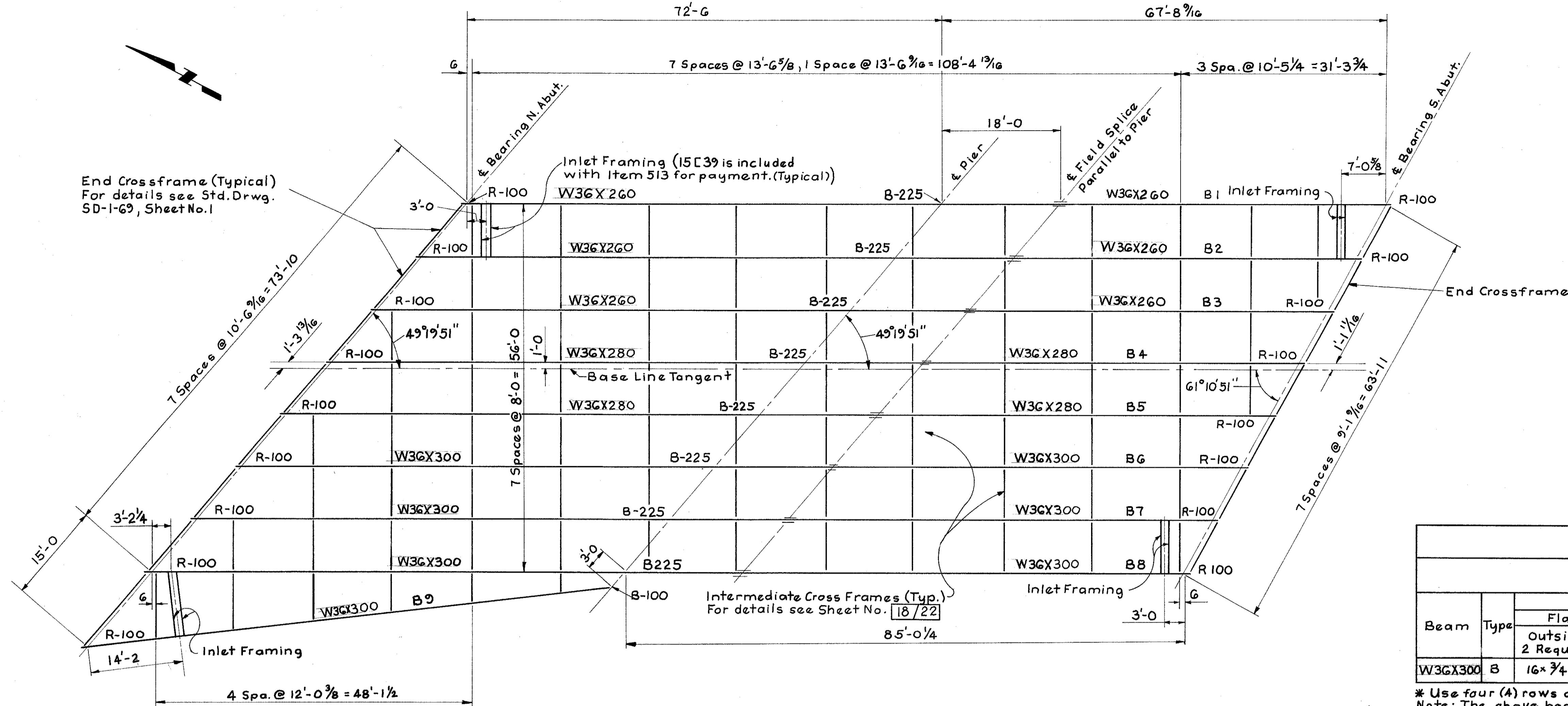
DESIGNED **DRAWN** **TRACED** **CHECKED** **REVIEWED** **DATE** **RE**

DESIGNED DRAWN TRACED ENGRAVED REVERSED DATE
W.W. W.W. P.R.M. I.J.L. W.W. 8-24-72

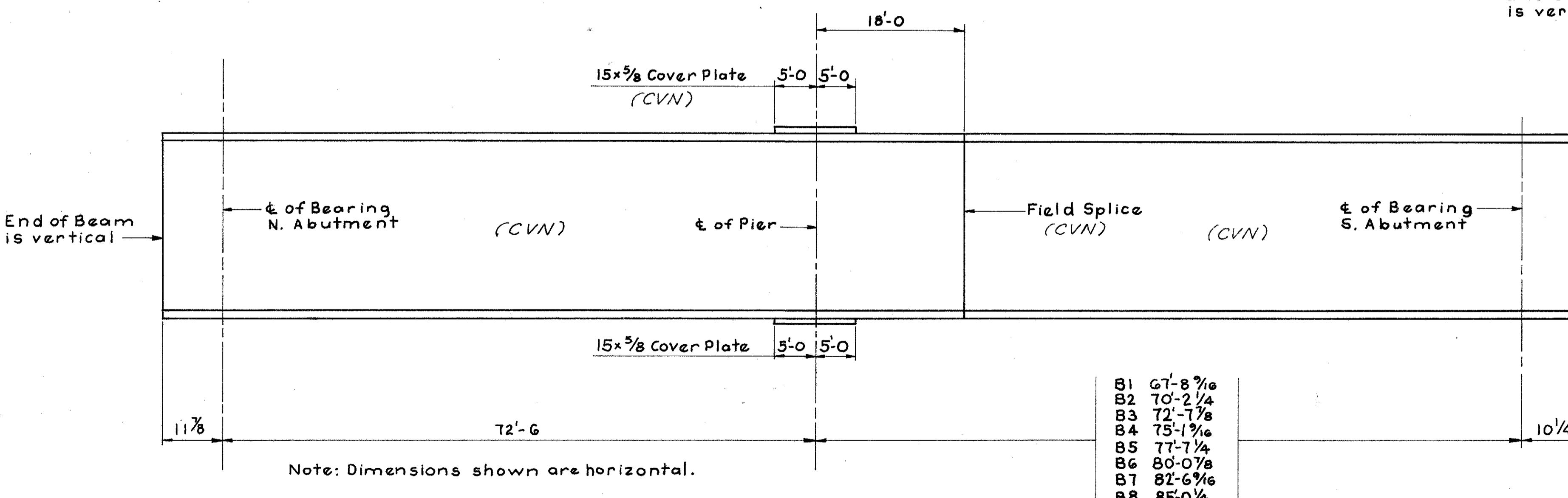
G.C.H.

94
273

HAMILTON COUNTY
HAM - 264-09.41



FRAMING PLAN



BEAM ELEVATION
B1 THRU B8

B1	67'-8 9/16
B2	70'-2 1/4
B3	72'-7 7/8
B4	75'-1 9/16
B5	77'-7 1/4
B6	80'-0 7/8
B7	82'-6 9/16
B8	85'-0 1/4

BEAM ELEVATION B9

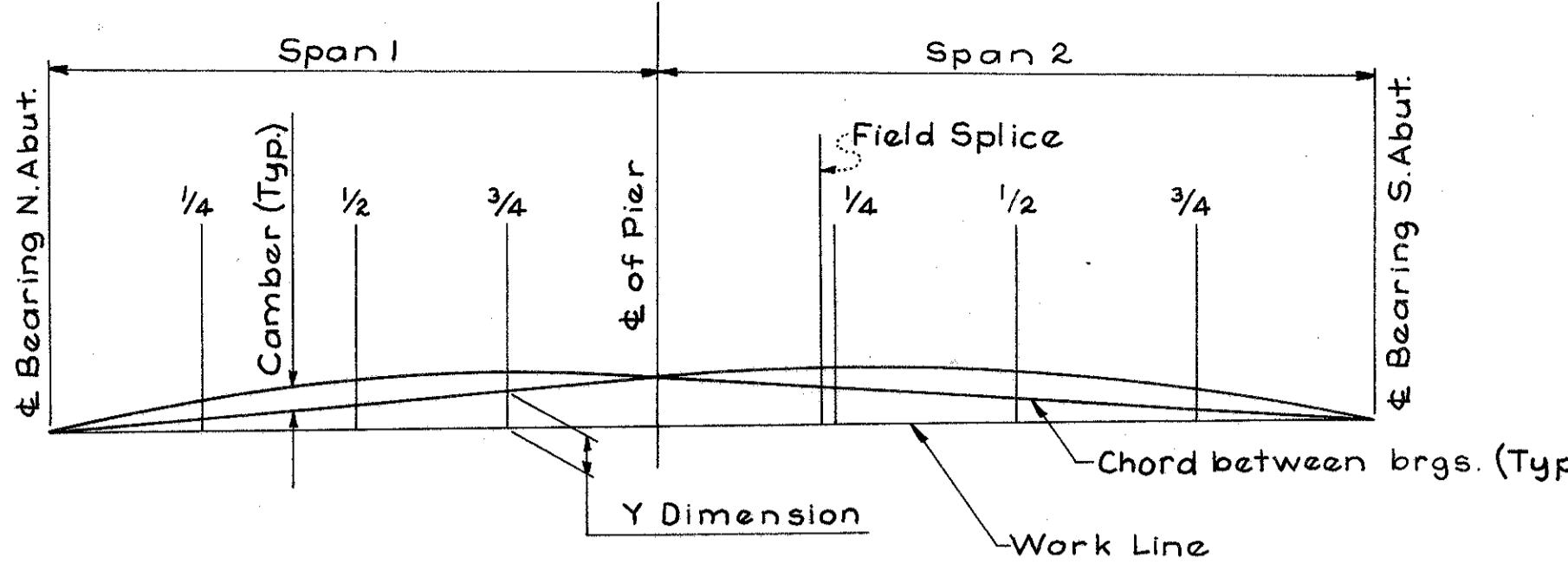
Where "CVN" is shown on the shape or plate size, the material shall meet specified minimum notch toughness requirements. The Fabricator shall submit to the Director a procedure designed for positive identification of material through all phases of fabrication. No material shall be fabricated until the Director has approved the procedure.

**CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING**

STRUCTURAL STEEL DETAILS
BRIDGE NO. HAM - 264-1044
GLENWAY AVE. BRIDGE
OVER C. & O. RAILWAY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
N.W.	W.W.	P.R.M.	L.E.N.	W.W.	8-24-72	

HAMILTON COUNTY
HAM-2G4-09.41

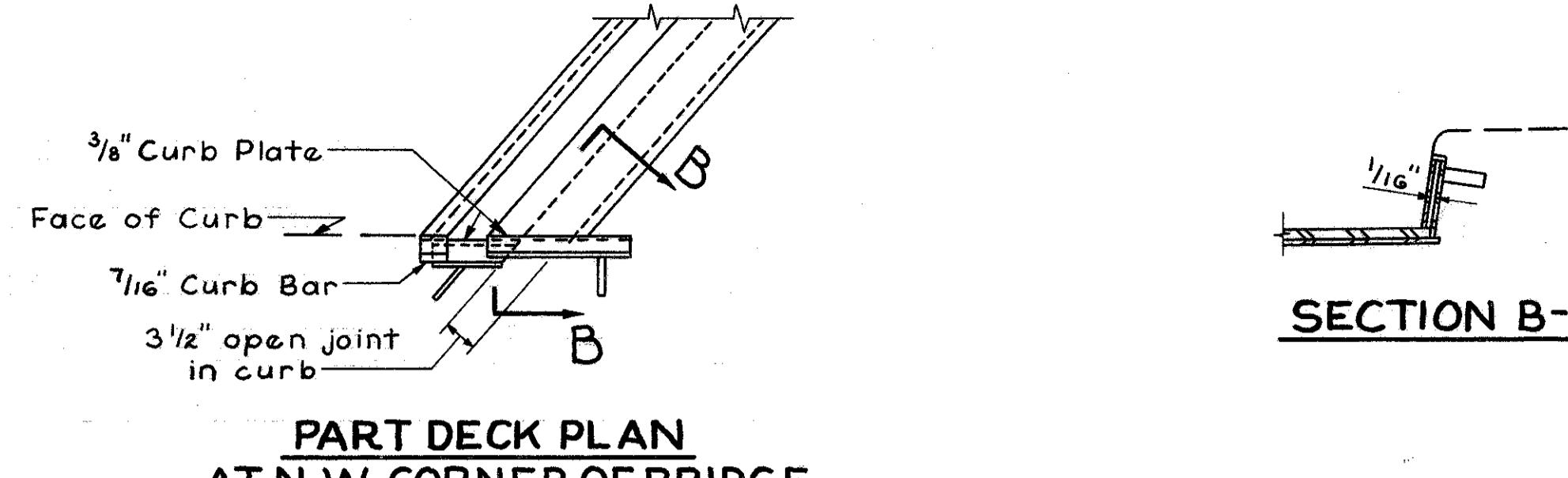


CAMBER DIAGRAM

Y DIMENSION							
Beam	1/4 Pt.	1/2	3/4	Pier	Splice	1/4	1/2
B1	2 1/16	4 3/16	6 1/4	8 3/8	6 1/4	6 1/4	4 3/16
B2	2 5/16	4 11/16	7 1/16	9 3/8	6 5/16	7 1/16	4 11/16
B3	2 7/16	4 7/8	7 9/16	9 3/4	7 3/16	7 3/16	4 7/8
B4	2 1/2	5	7 1/2	10	7 3/16	7 1/2	5
B5	2 1/16	5 5/16	8	10 11/16	8 3/16	8	5 5/16
B6	2 7/8	5 1/2	8 1/2	11 3/8	8 1/8	8 1/2	5 1/16
B7	2 3/4	5 1/2	8 3/16	10 13/16	8 5/8	8 3/16	5 1/2
B8	2 3/16	5 5/8	8 3/8	11 3/16	8 7/8	8 3/8	5 5/8
B9	0	0	0				

DEFLECTION AND CAMBER							
	SPAN 1			SPAN 2			
	Beam	1/4 Pt.	1/2	3/4	Field Splice	1/4	1/2
Deflection due to Steel Weight:	B1	1/8	1/8	1/16	1/16	1/16	1/16
	B2	1/8	1/8	1/16	1/16	1/8	1/8
	B3	1/8	1/8	1/16	1/16	1/8	1/8
	B4	1/8	1/8	1/16	1/16	3/16	1/8
	B5	1/8	1/8	1/16	1/8	3/16	3/16
	B6	1/8	1/8	1/16	1/8	1/8	3/16
	B7	1/16	1/8	1/16	1/8	1/4	3/16
	B8	1/16	1/16	O	3/16	5/16	1/4
	B9	3/16	1/2	3/8			
Deflection due to Remaining Dead Load:	B1	5/8	3/4	3/8	3/16	3/16	1/2
	B2	5/8	1/2	1/4	1/8	1/8	3/8
	B3	5/8	7/16	3/16	3/16	7/16	3/8
	B4	5/16	3/8	3/16	1/4	1/4	7/16
	B5	5/16	3/8	1/8	1/4	9/16	7/16
	B6	1/4	5/16	1/8	5/16	5/8	1/2
	B7	3/16	1/8	1/16	5/8	5/8	1/8
	B8	1/8	1/16	-1/8	1/16	1 1/16	1 7/16
	B9	1 3/4	2 7/16	1 11/16			
Superelev. and Vertical Curve Correction:	B1	1 13/16	2 3/10	1 11/16	1 3/16	1 1/16	15/16
	B2	2 1/16	2 1/4	1 11/16	1 1/16	1 7/16	1 3/16
	B3	2 1/4	2 3/8	1 13/16	1 9/16	1 11/16	2 1/16
	B4	1 13/16	2 9/16	1 11/16	2 3/16	2 3/8	1 11/16
	B5	1	2 3/8	1 13/16	2 1/4	2 1/2	3
	B6	1 7/16	2 1/4	1 13/16	2 1/4	2 1/2	3 1/8
	B7	1 3/16	1 13/16	1 13/16	2 1/4	3 5/8	2 1/4
	B8	5/8	1 5/16	1 3/16	2 1/2	2 3/4	4 3/16
	B9	1 7/16	2 3/8	1 13/16			
Required Shop Camber:	B1	2 7/16	3 1/16	2 1/8	1 7/16	1 5/16	1 7/8
	B2	2 9/16	2 7/8	2	1 1/4	1 13/16	1 5/8
	B3	2 3/4	2 13/16	2 1/16	1 13/16	2 9/16	2 1/16
	B4	2 3/8	3 1/8	1 15/16	2 1/2	2 1/2	3
	B5	1 7/16	2 7/8	2 1/2	2 1/2	3	2 1/4
	B6	1 13/16	2 1/16	2	2 1/16	2 13/16	4
	B7	1 7/16	2 1/16	1 7/16	2 11/16	3	4 7/8
	B8	1 3/16	1 7/16	1 1/16	3 3/4	4	6 5/16
	B9	3 9/16	5 5/16	3 7/8			

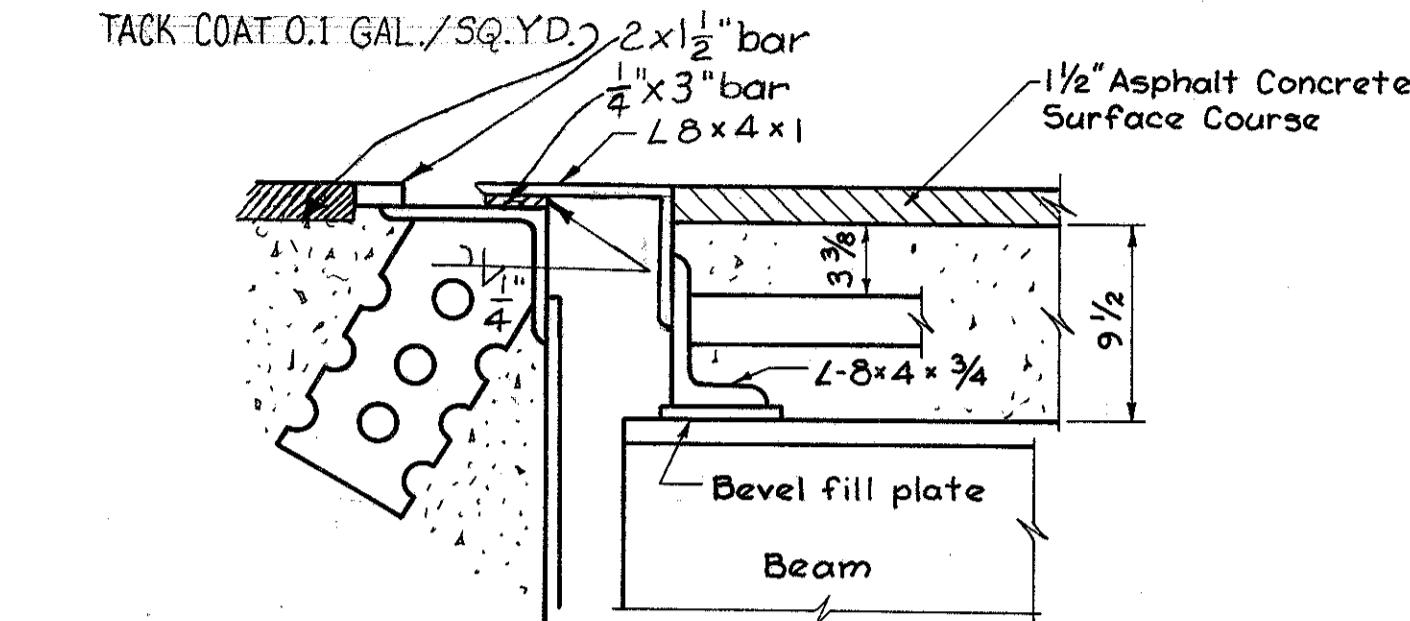
MICROFILMED
APR 16 1960



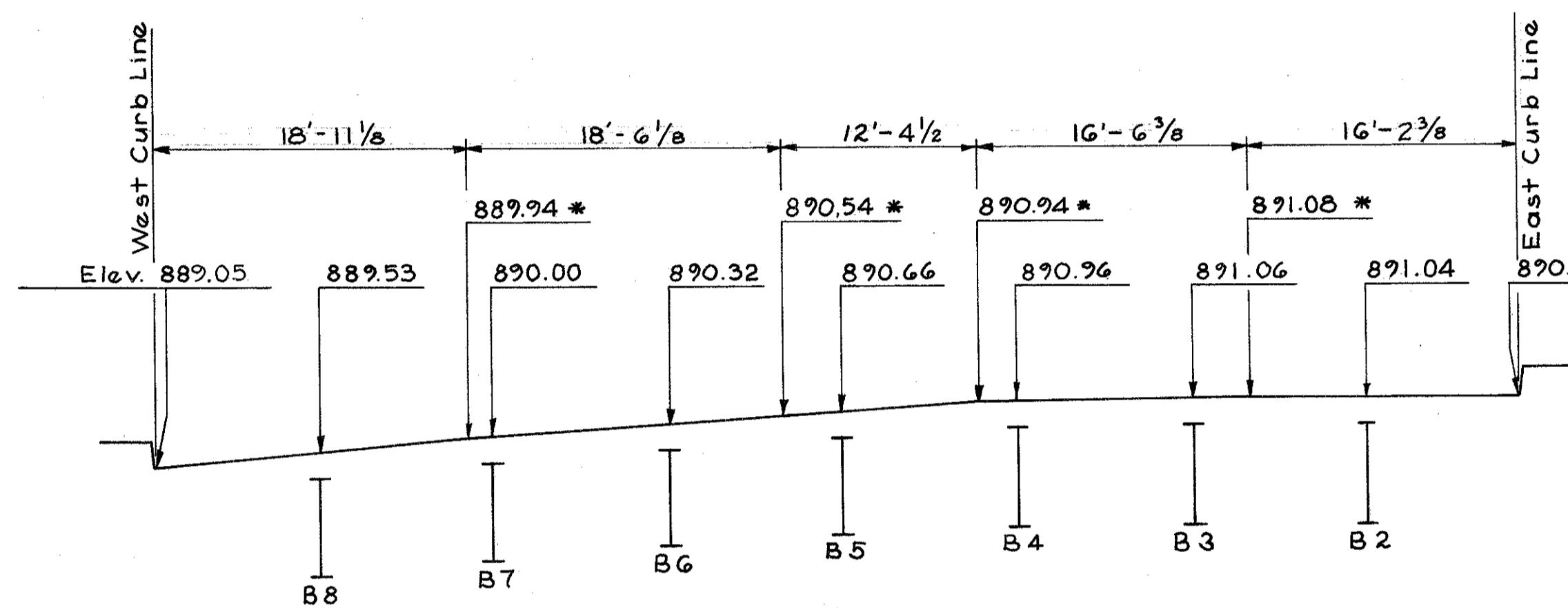
PART DECK PLAN
AT N.W. CORNER OF BRIDGE

CURB PLATE DETAILS

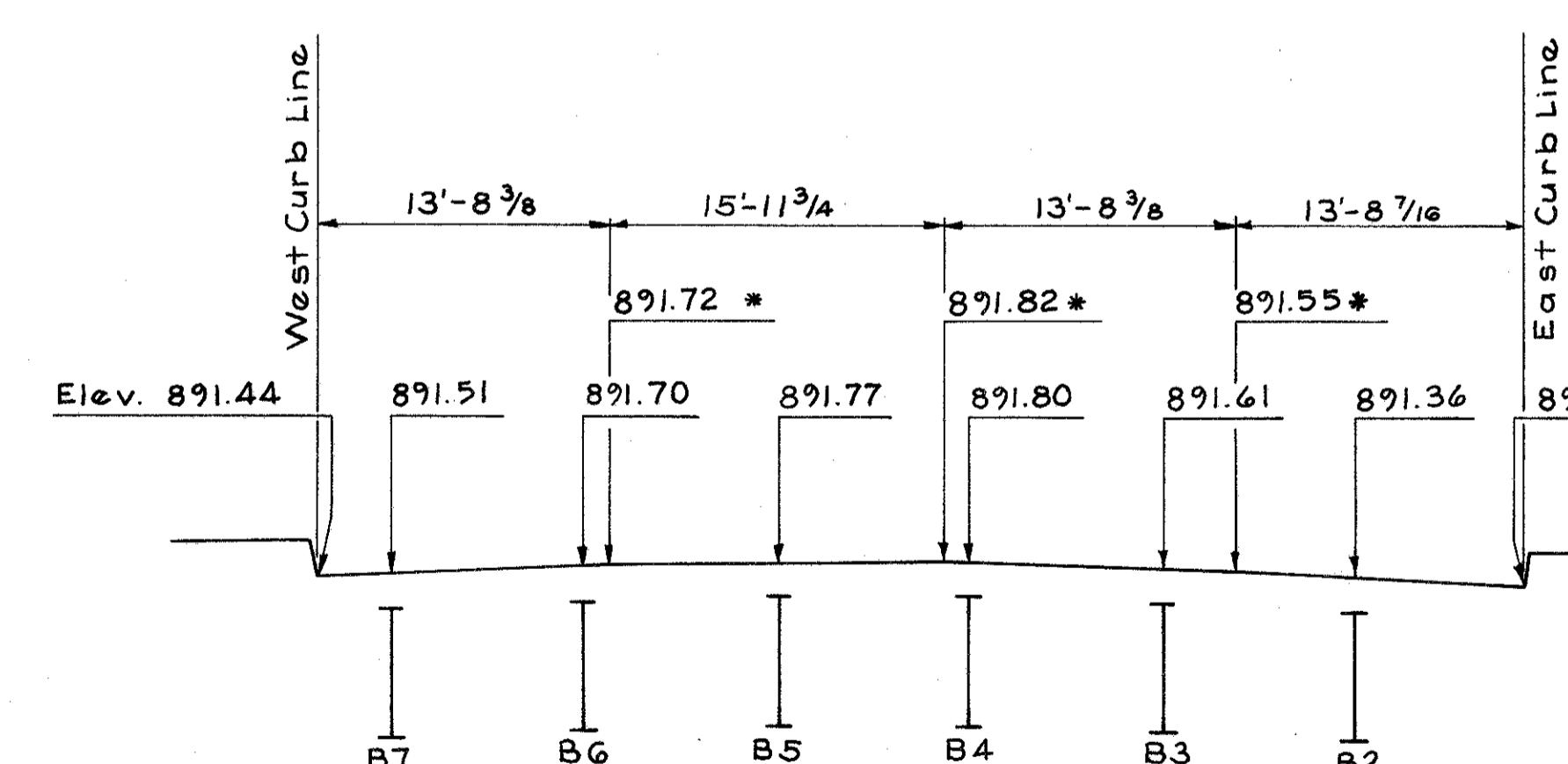
For details not shown see Std. Drwg. SD-1-G9, Sheet No. 2.



TYPICAL SECTION
ROADWAY END DAM



END DAM PROFILE
(North End of Bridge)



END DAM PROFILE

(South End of Bridge)

Note: Elevations given above are along back of L 8x4x1. For details of end dam see Std. Drwg. SD-1-G9, Sheet No. 1 and the Typical Section, this sheet.

* Elevations with asterisk are at breaks in grade.

Steel End Dams (roadway, sidewalk, curb) shall be galvanized in accordance with 711.02. Included with Item 513, Structural Steel for payment.

All locations on the galvanized end dam which are field welded, shall be prepared and field painted as required by Item 514. The surface, a minimum of 2" from each weld, shall be prepared for field painting using Porter No. 45 Galvaprep or approved equal, and then primed with Porter No. 299 galvanized metal primer or an approved equal with adry film thickness of 2.0 mils.

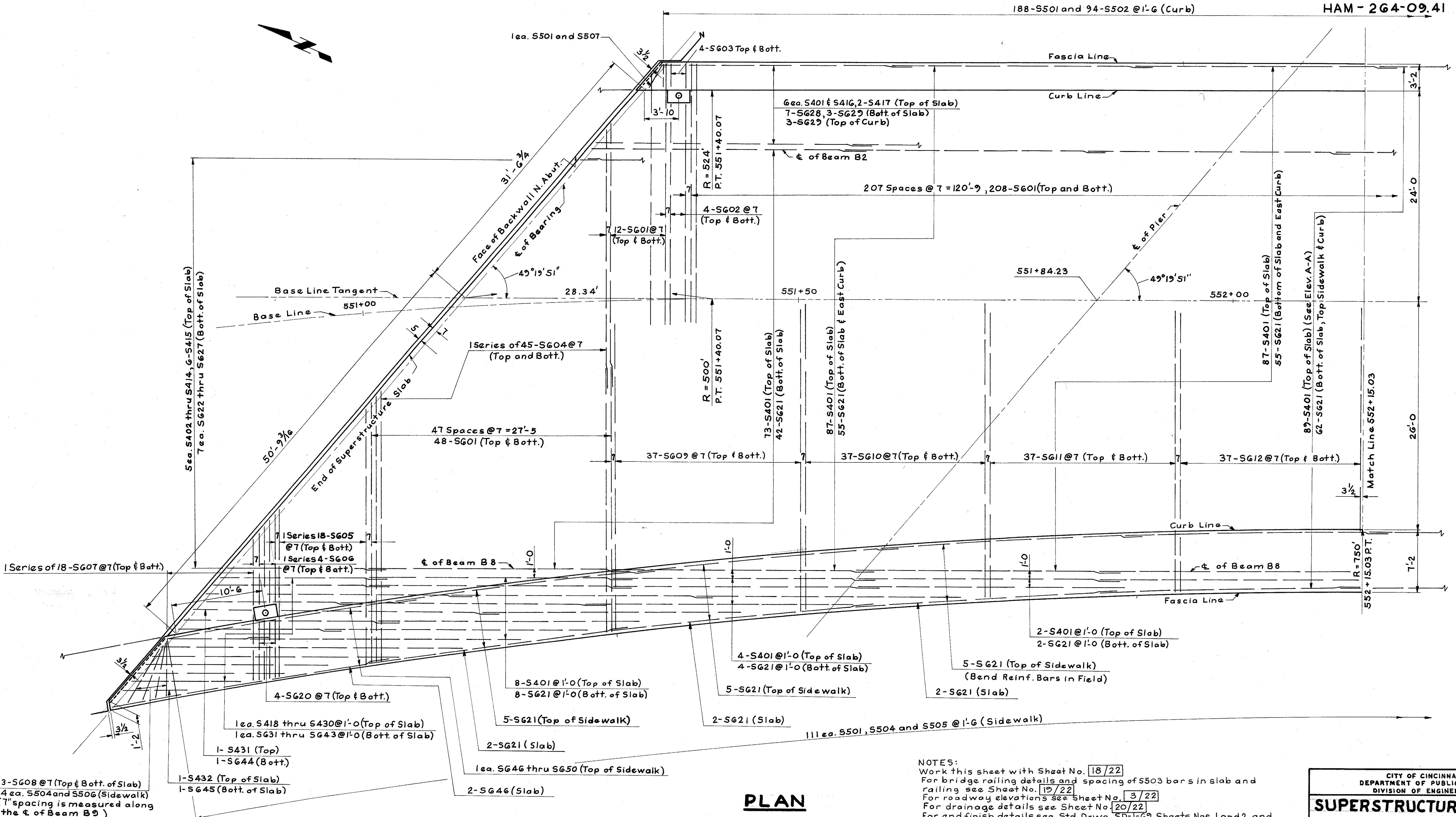
CITY OF CINCINNATI DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING				16/22
STRUCTURAL STEEL DETAILS				
BRIDGE NO. HAM-2G4-1044 GLENWAY AVE. BRIDGE OVER C.&O. RAILWAY				
DESIGNED W.W.	DRAWN W.W.	TRACED P.R.M.	CHECKED P.E.T.	REVIEWED W.W. 8-24-72
REVISED REvised				

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		96 273

96
273

HAMILTON COUNTY
HAM - 2G4-09.41

188-S501 and 94-S502 @ 1'-6" (Curb)



NOTES:
 Work this sheet with Sheet No. 18/22.
 For bridge railing details and spacing of S503 bars in slab and railing, see Sheet No. 19/22.
 For roadway elevations see Sheet No. 3/22.
 For drainage details see Sheet No. 20/22.
 For end finish details see Std. Drwg. SD-1-69 Sheets Nos. 1 and 2 and design drwg. Sheet No. 16/22.

Field bend or cut longitudinal bars to miss drain inlets.
 Transverse inf. bars at skewed ends of bridge shall extend to vertical leg of end finish angle.
 Lap distance #6 bars = 1'-11 min.
 #4 bars = 1'-3 min.
 Longitudinal bar marks read from West to East.

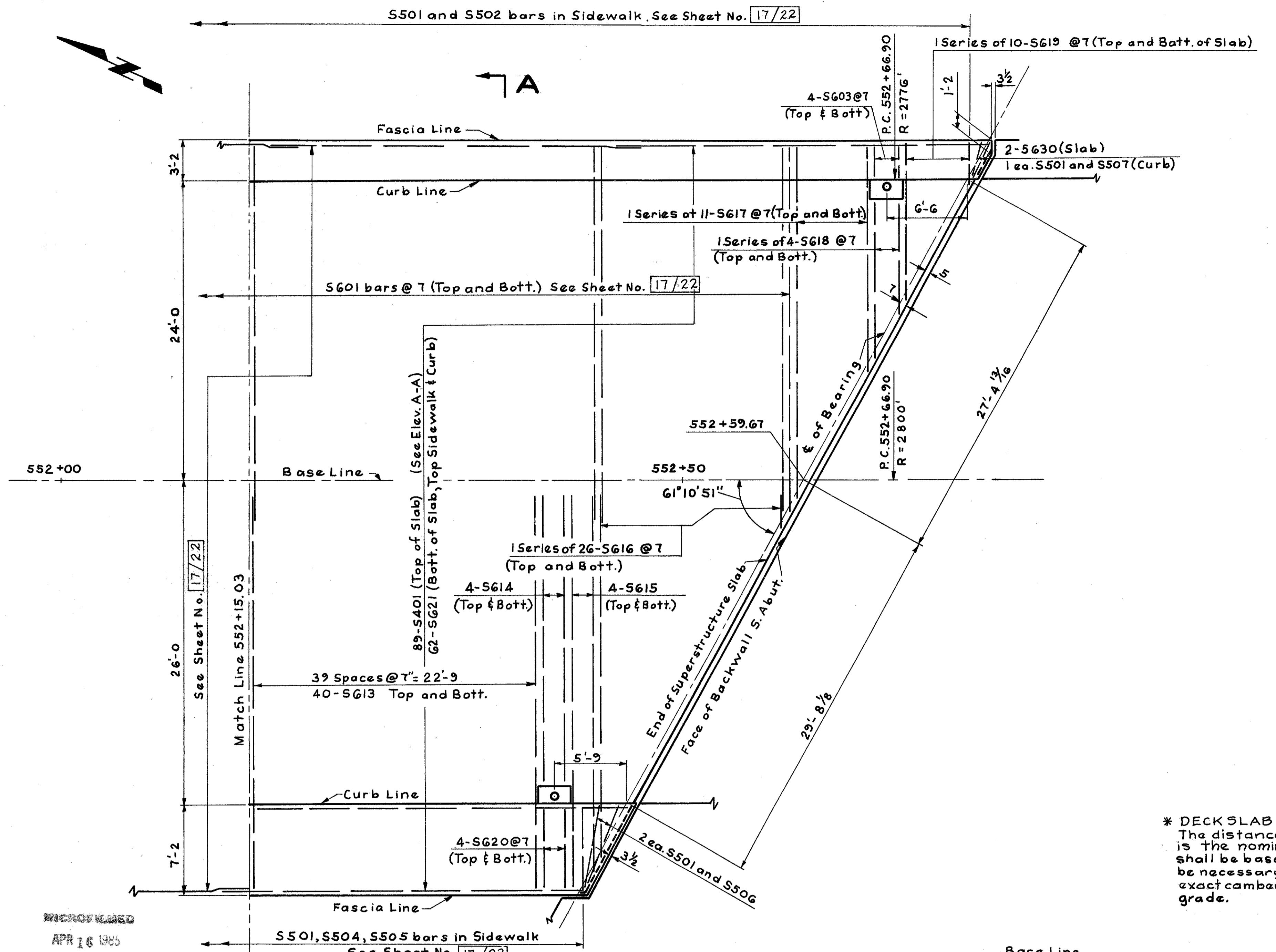
CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING
17/22

SUPERSTRUCTURE DETAILS
BRIDGE NO. HAM-2G4-1044
GLENWAY AVE. BRIDGE
OVER C.&O. RAILWAY

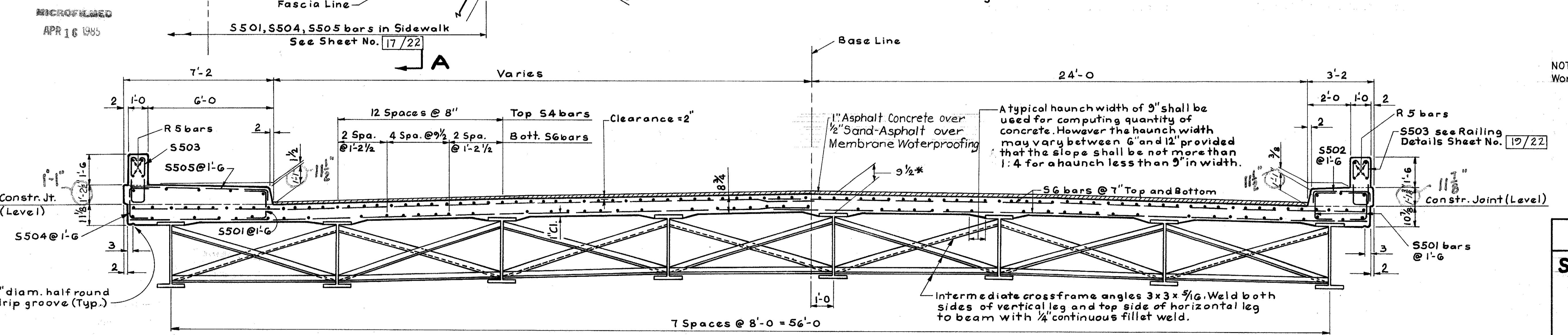
MICROFILMED
APR 16 1965

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
W.W.	W.W.	P.R.M.	P.E.T.	W.W.	8-24-72	

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		97 273

97
273HAMILTON COUNTY
HAM - 2G4-09.41

* DECK SLAB DEPTH:
The distance from the top of deck slab to the top of steel beam is the nominal dimension. The quantity of concrete to be paid for shall be based on this dimension, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.



CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING
18/22

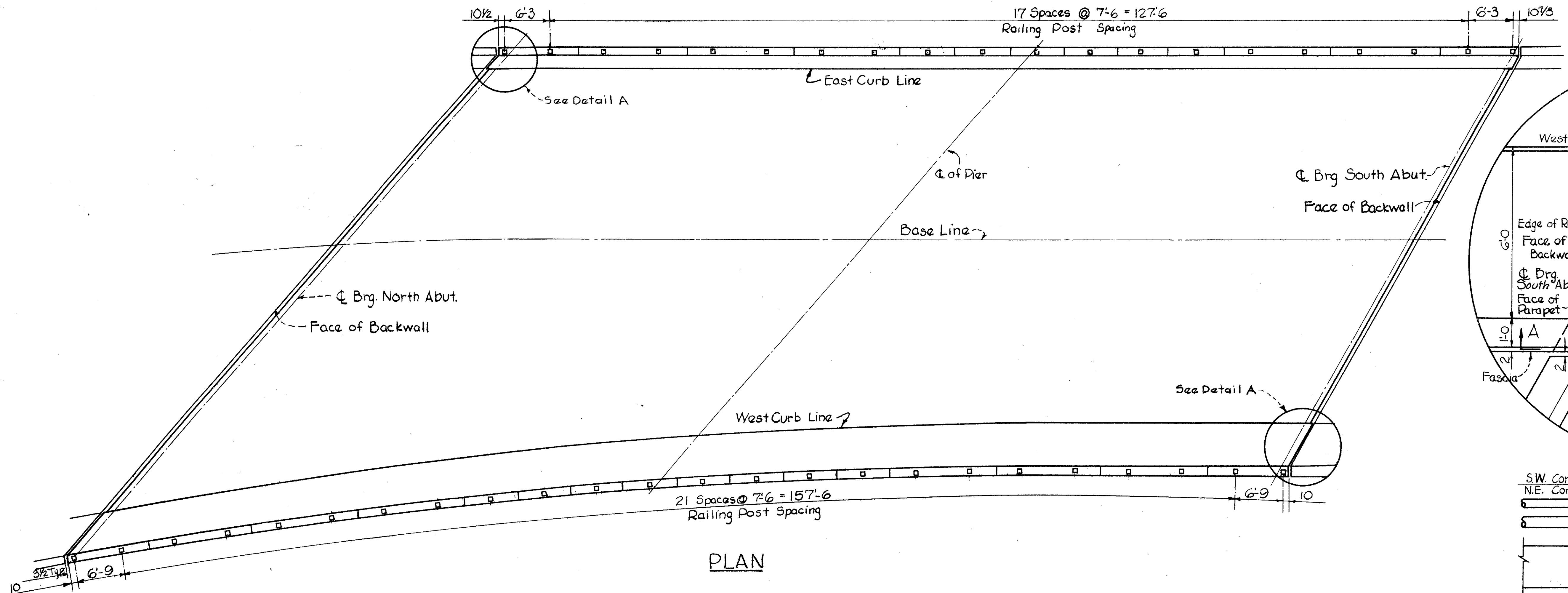
SUPERSTRUCTURE DETAILS
BRIDGE NO. HAM-2G4-1044
GLENWAY AVE. BRIDGE
OVER C.&O. RAILWAY

DESIGNED W.W.	DRAWN W.W.	TRACED P.R.M.	CHECKED P.E.T.	REVIEWED W.W.	DATE 8-24-72	REVISED 9/18/76
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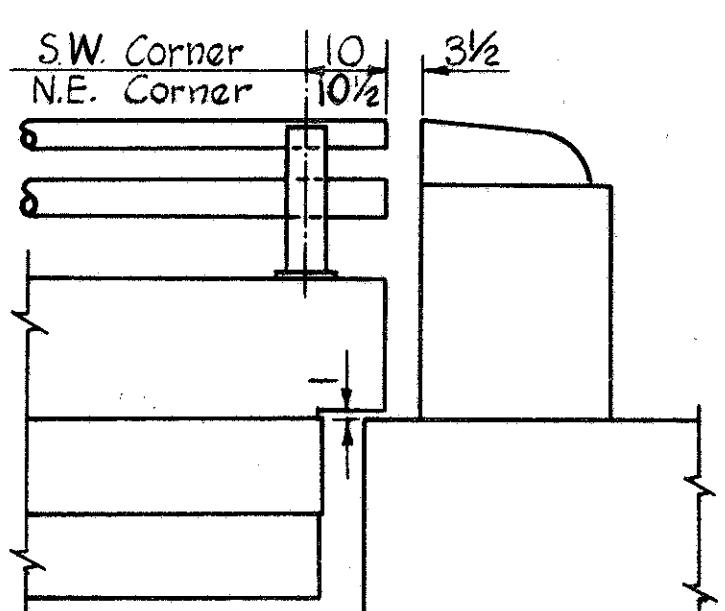
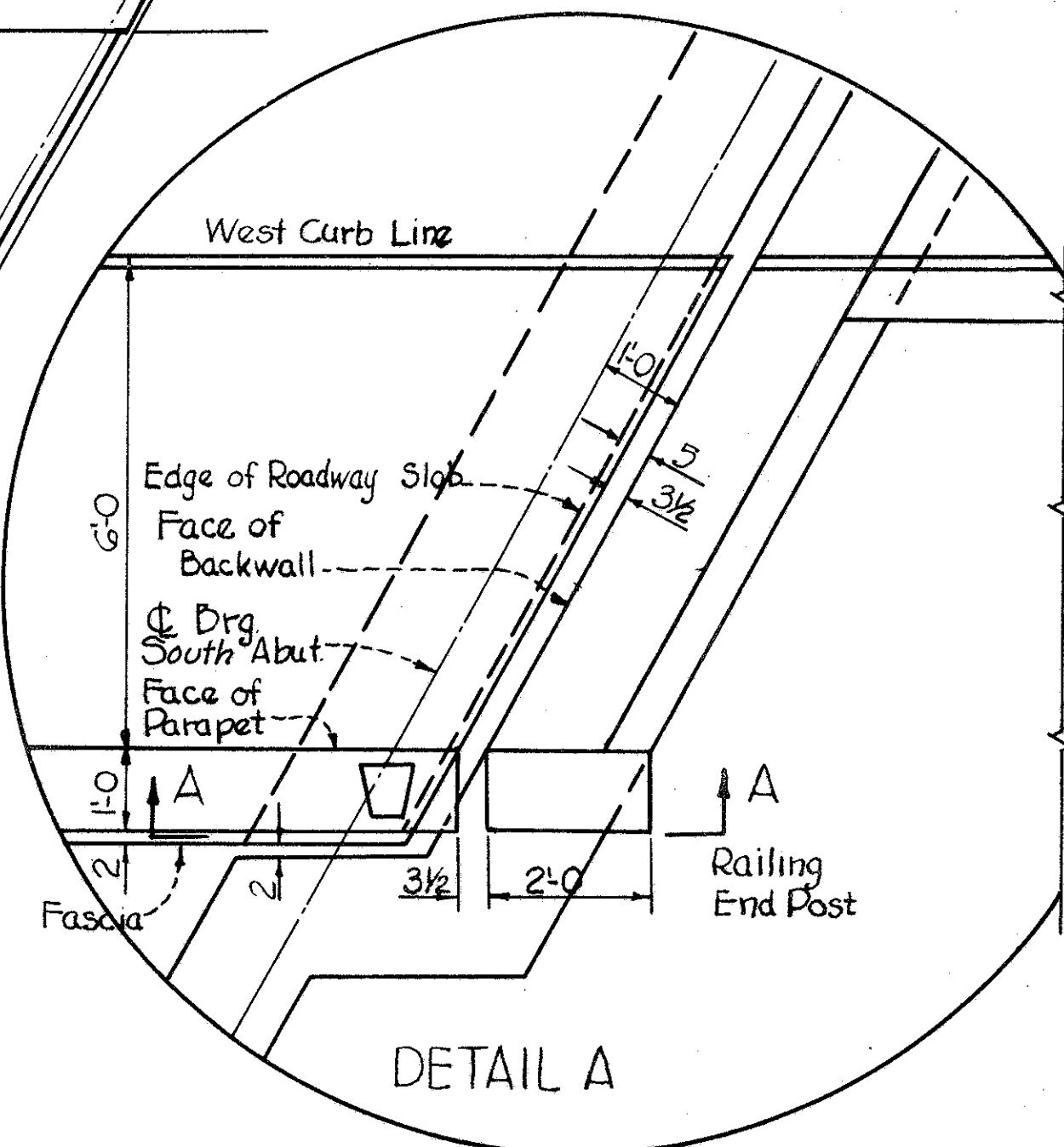
SECTION A-A

FED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		98 273

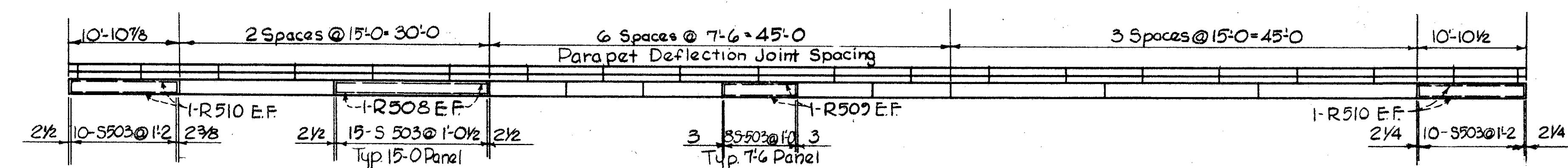
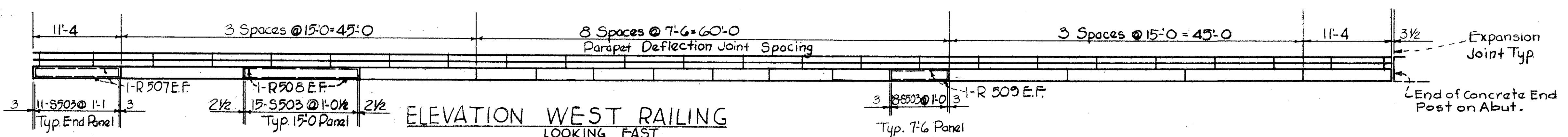
HAMILTON COUNTY
HAM-264-09.41



PLAN



NOTE:
For details not shown see Std Drwg BR-2-67
The location of the railing posts and
reinforcing steel is measured along the
L of the parapet.
Railing shall be continuous through end posts
For Parapet Details see sheet No. 18/22



MICROFILMED
APR 16 1968

ELEVATION EAST RAILING
LOOKING WEST

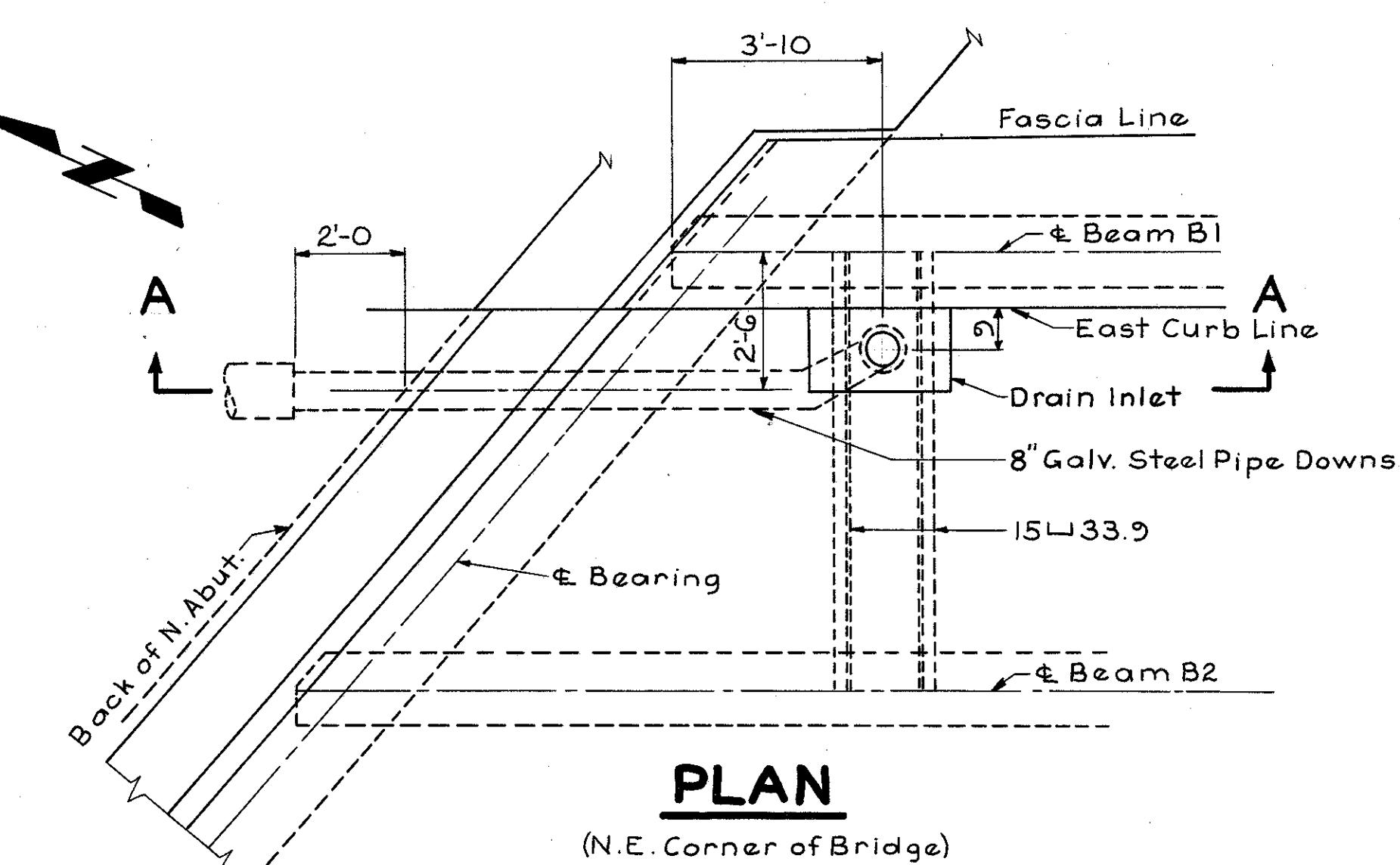
PREFORMED EXPANSION JOINT FILLER in the railing parapet
deflection joints may be either 1/4" gray sponge rubber, Item 705.03 or
1/4" gray cellular polyvinyl chloride (PVC) sponge, Item 711.28.

CITY OF CINCINNATI DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING			
10/22			
RAILING DETAILS			
BRIDGE NO. HAM-264-1044			
GLENWAY AVE. BRIDGE			
OVER C. & O. RAILWAY			
DESIGNED	DRAWN	TRACED	CHECKED
JDA	JGK		W.W.
REVIEWED	DATE	REvised	
W.W. 8-24-72			

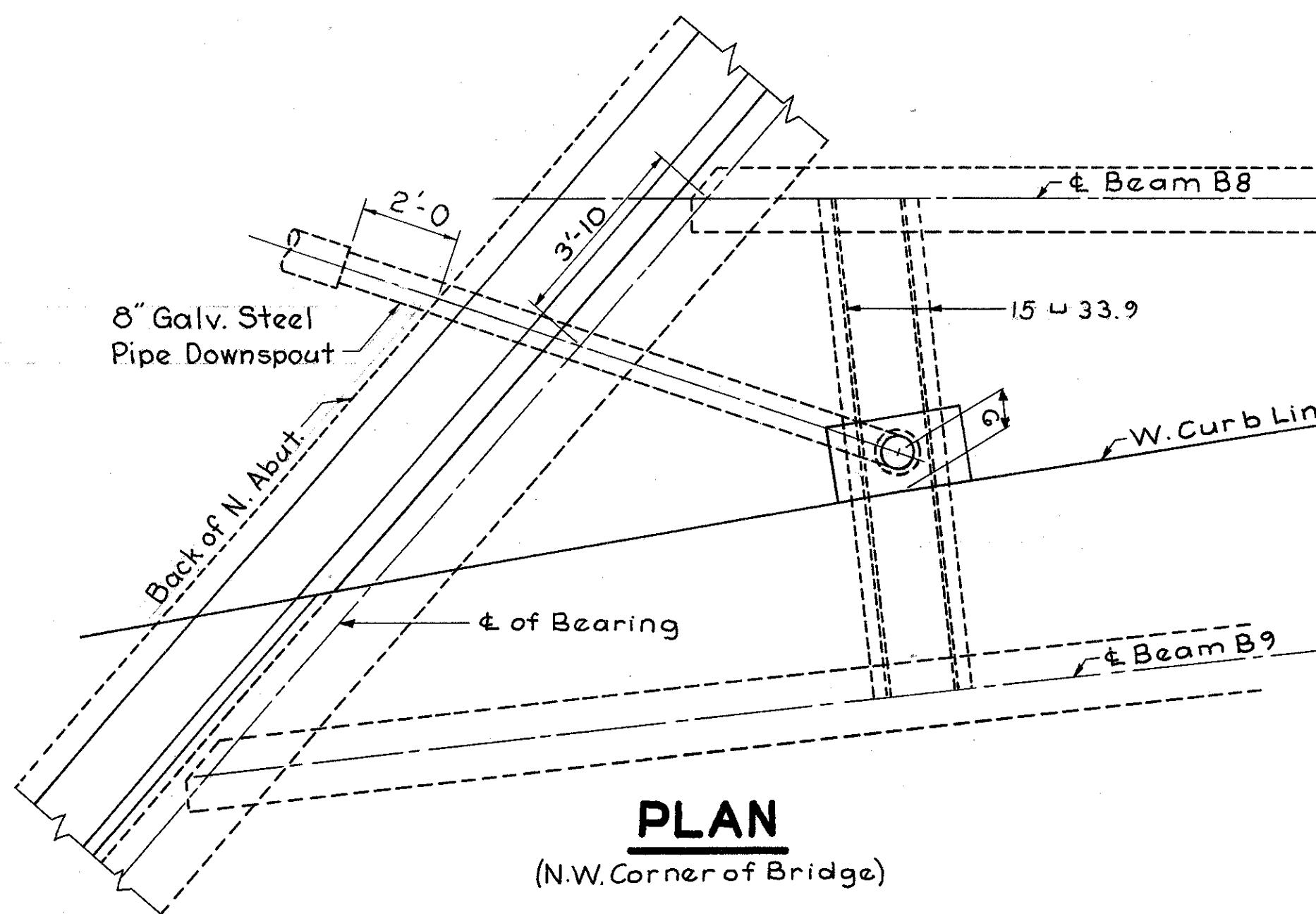
FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR
2	OHIO		99 273

99
273

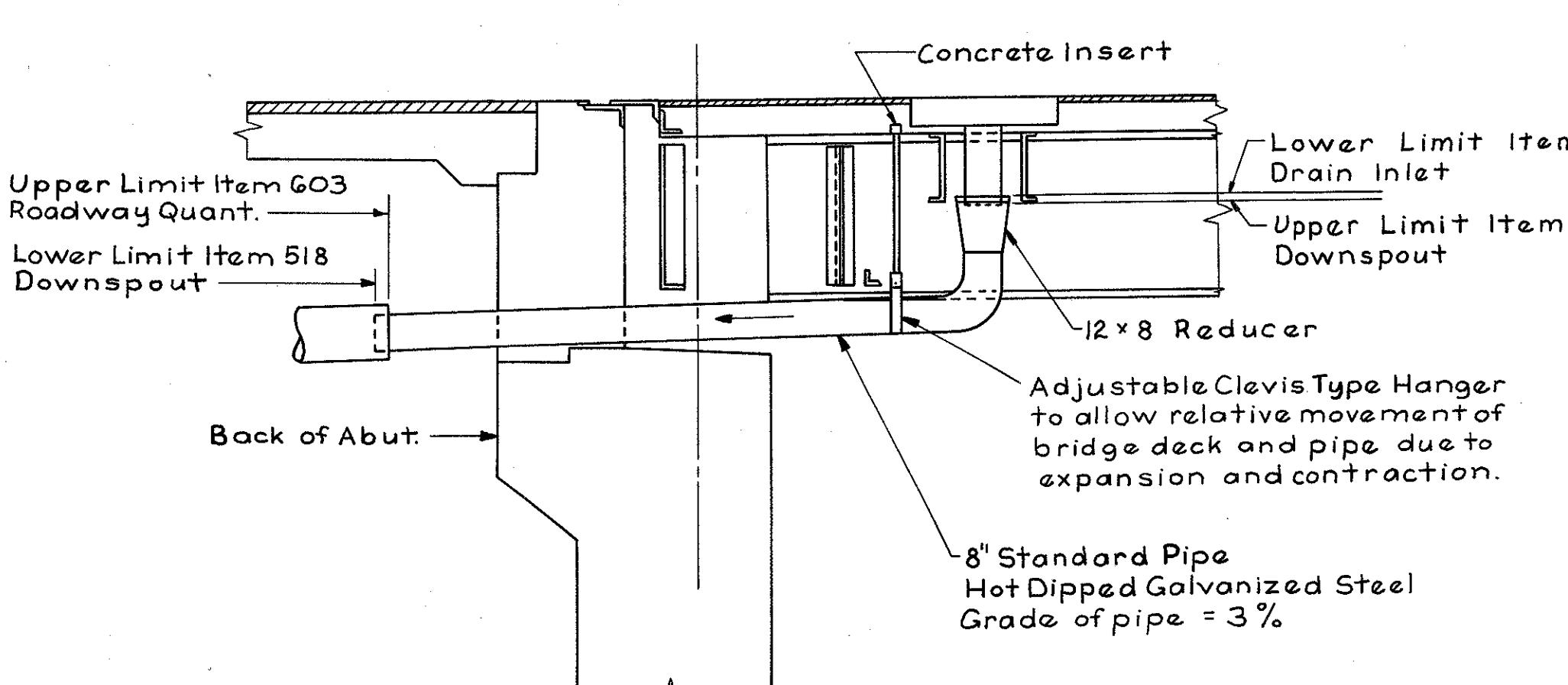
HAMILTON COUNTY
HAM - 264-09.41



PLAN
(N.E. Corner of Bridge)



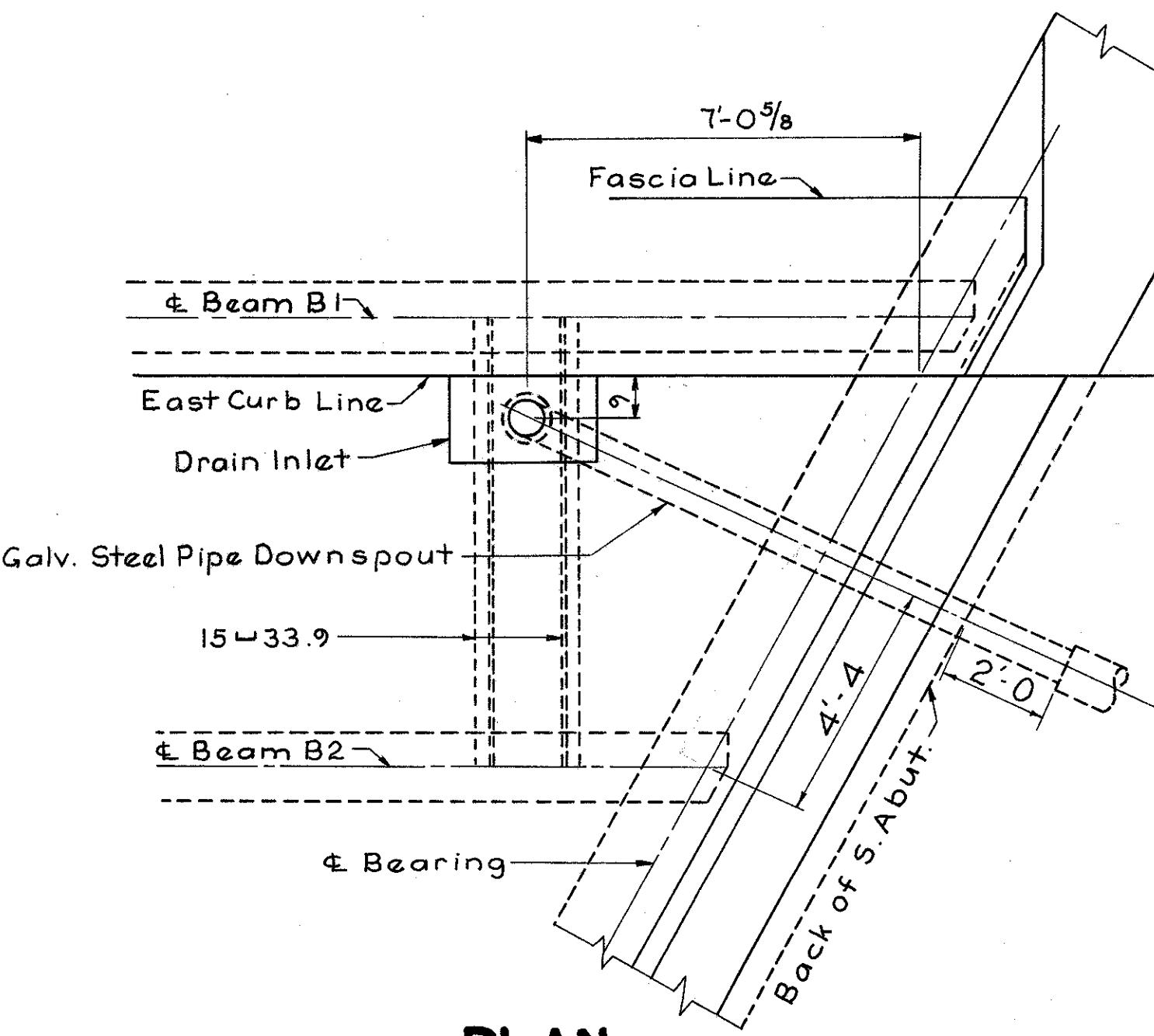
PLAN
(N.W. Corner of Bridge)



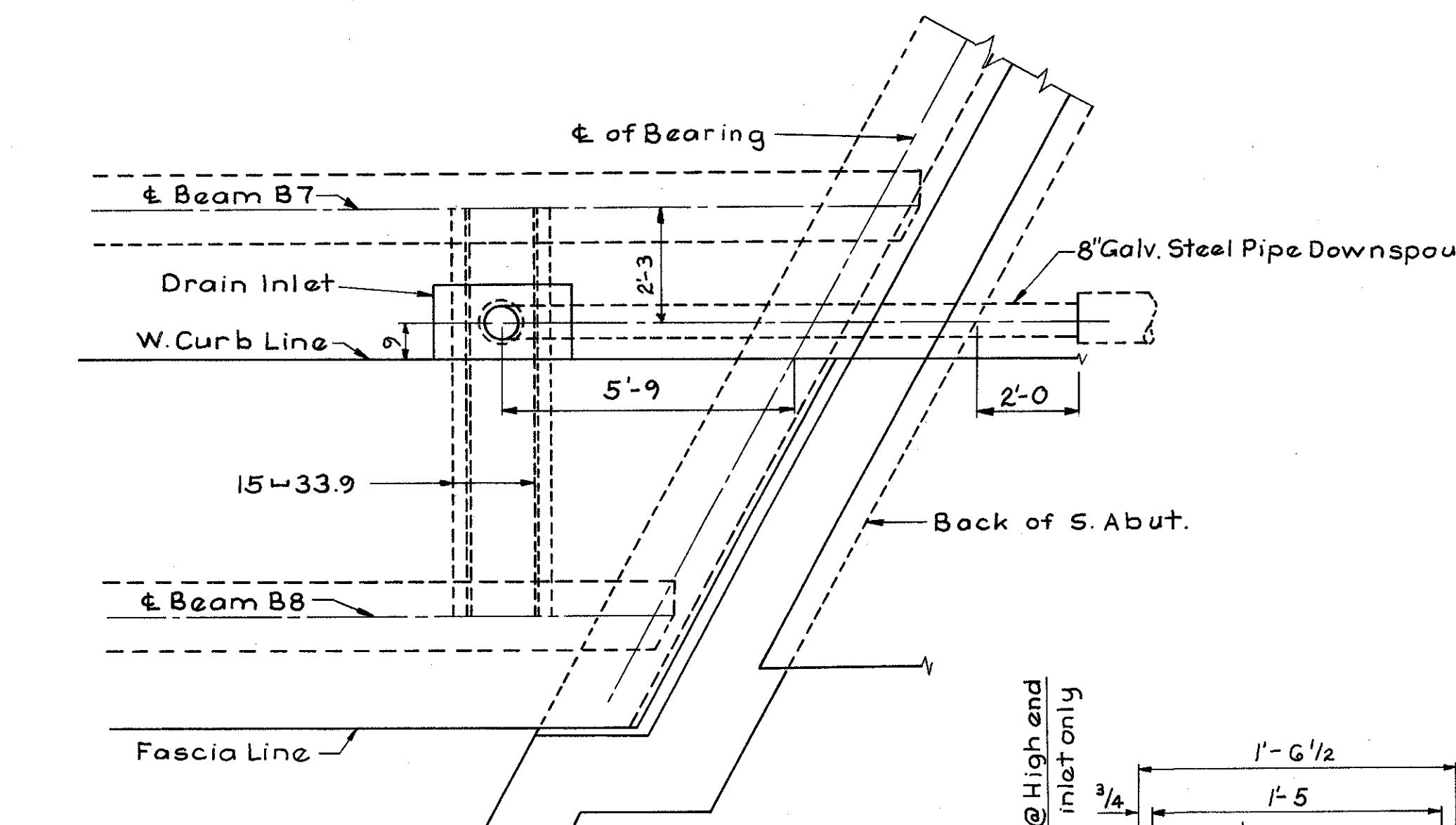
ELEVATION A-A

Note: Downspout installation at all inlets on bridge is similar to that shown above. Two pipe support hangers shall be installed at the N.W. corner of bridge @ 5'-0" o.c.

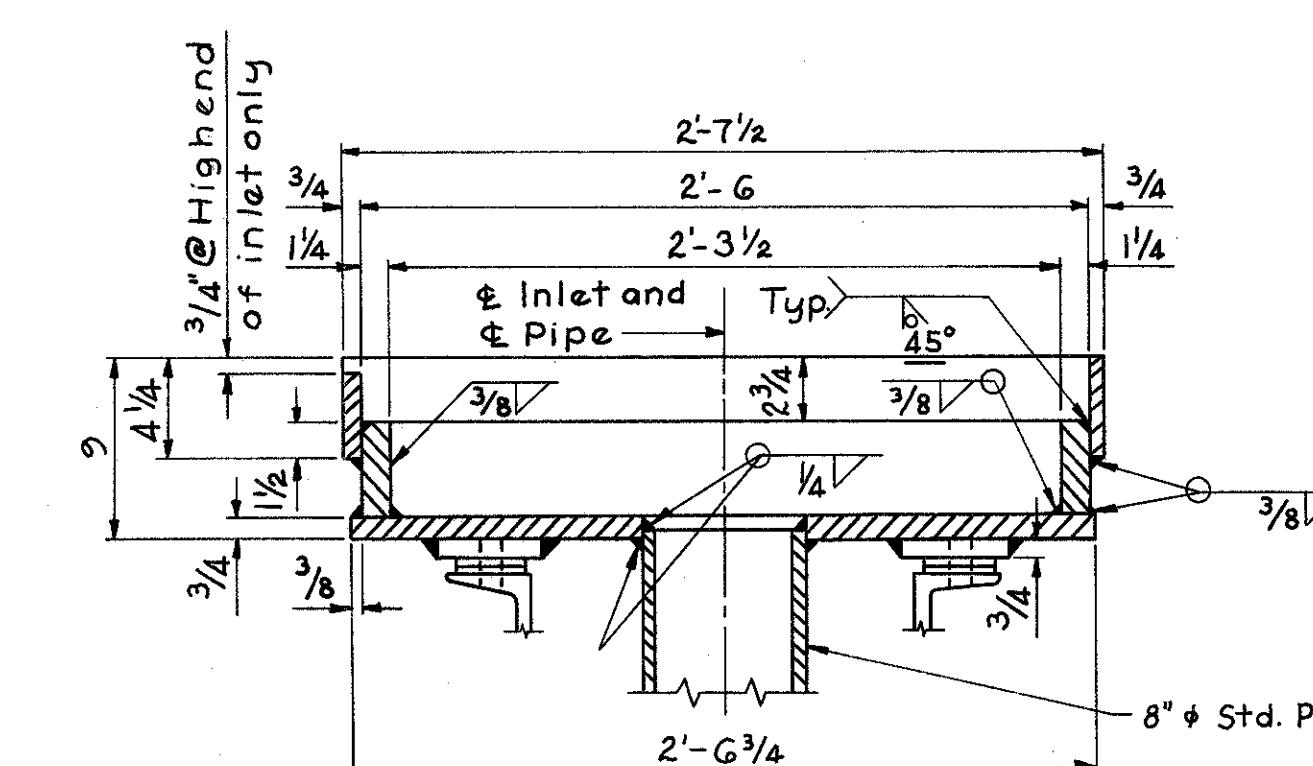
MICROFILMED:
APR 18 1960



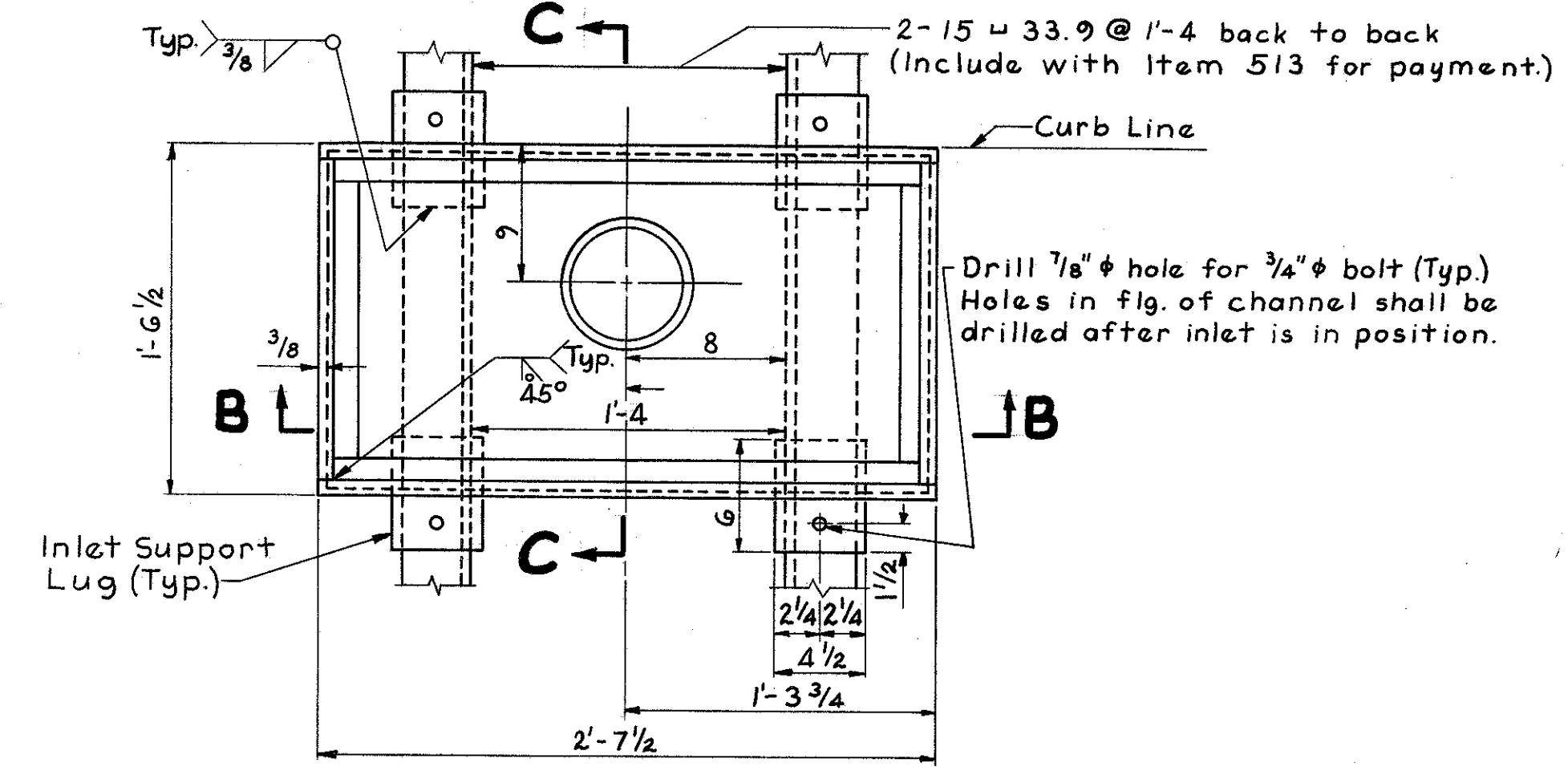
PLAN
(S.E. Corner of Bridge)



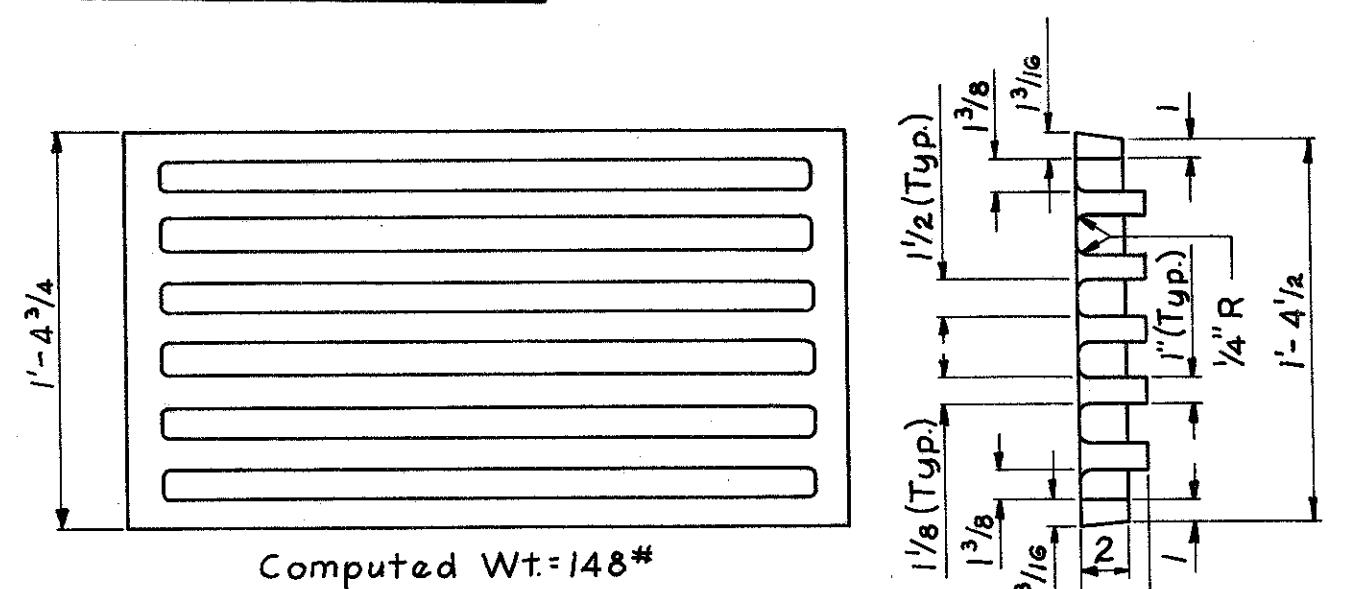
PLAN
(S.W. Corner of Bridge)



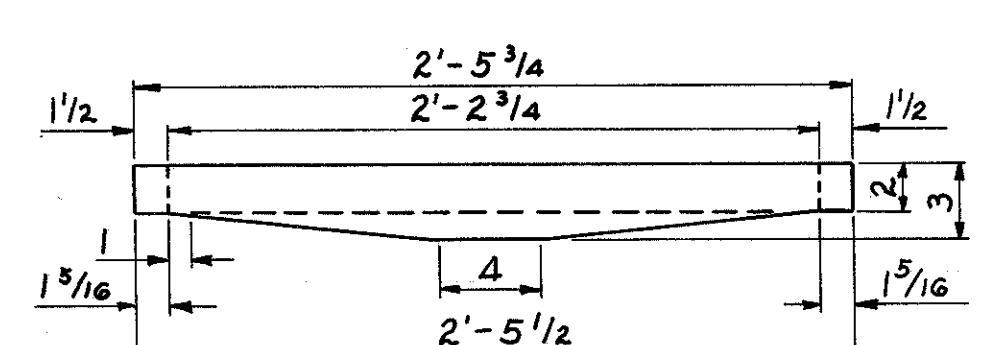
SECTION B-B



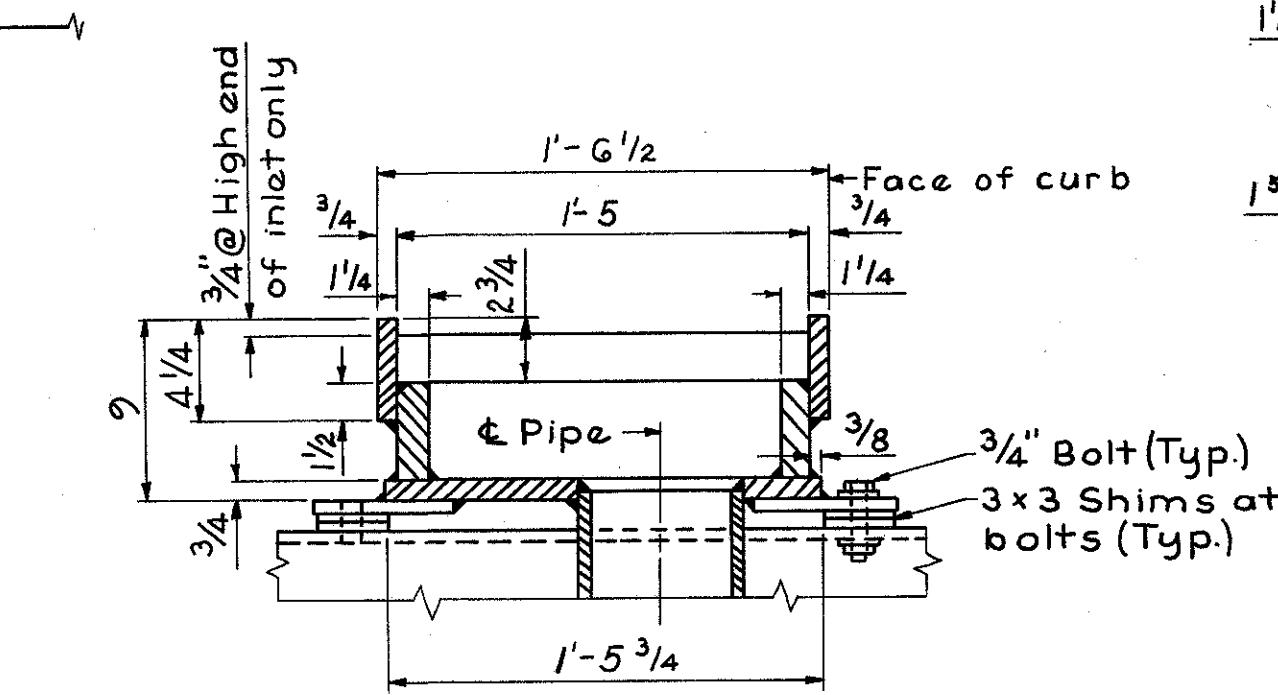
INLET FRAME



Computed Wt: 148#



INLET GRATING



SECTION C-C

Note:
Inlet grating shall meet the requirements of Sec. 711.12 of the Material Specifications of the State of Ohio Department of Highways.

Grating and inlet shall be fitted to each other without rattling, by grinding grating casting as necessary.

Inlet frame to be welded structural steel plates and standard steel pipe, galvanized after fabrication.

Weld channels to beam with $\frac{1}{8}$ " continuous fillet weld. Weld to beam web only.

Space lugs on inlet to permit bolting to supporting channels.

Cope channels so that top of channel is flush with top of beam.
Place top of inlet $\frac{1}{4}$ " below top of wearing surface.

Drain inlets shall be galvanized in accordance with 711.02.

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

20/22

DRAINAGE DETAILS

BRIDGE NO. HAM-264-1044
GLENWAY AVE. BRIDGE
OVER C.&O.RAILWAY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
W.W.	W.W.	P.R.M.	P.E.T.	W.W.	8-24-72	

Mark	Type	Length	No. of Bars	Weight	Mark	Type	Length	No. of Bars	Weight	Mark	Type	Length	No. of Bars	Weight	Mark	Type	Length	No. of Bars	Weight	Mark	Type	Length	No. of Bars	Weight	FED. NO.	STATE	PROJECT	FISCAL YEAR																
NORTH ABUTMENT																																												
A501	Bt.	5'-2	121	652	SA508	Bt.	7'-0	5	37	SA509	Bt.	5'-6	5	29	SUPERSTRUCTURE		5639	Str.	25'-6	1	38	W925	Str.	7'-7	2	52	W505	Str.	20'-11 to 31'-1	15 Series of 15	407													
A502	Str.	31'-4	11	359	SA510	Str.	3'-0	5	16	SA511	Bt.	4'-8	5	24	5401	Str.	30'-0	445	8918	5640	Str.	18'-6	1	28	W926	Str.	5'-9	2	39	W506	Str.	24'-3	2	51										
A503		35'-8	8	298	SA512	Str.	20'-8	96	2069	SA513		26'-2	27	737	5402		2'-1	5	7	5641		30'-6	1	46	W927		3'-11	2	27	W507	Bt.	3'-2	2	7										
A504		31'-9	11	364	SA514		25'-6	18	479	SA515		26'-1	9	245	5403		3'-1	5	10	5642		20'-0	1	30	W928		26'-6	2	180	W508	Str.	9'-8 to 21'-0	15 Series of 9	144										
A505		25'-2	24	630	SA516		25'-6	18	479	SA517		13'-1	4	55	5404		4'-2	5	14	5643		19'-6	1	29	W929		23'-11	2	163	W509	Str.	3'-6 to 22'-9	15 Series of 8	110										
A506		35'-8	62	2306	SA518		27'-8	30	866	SA519	Bt.	23'-4 to 30'-2	6 Series of 10	1674	5405		7'-0	1	11	5644	5406	7'-6	1	11	W930		21'-11	2	145	W510		5'-10 to 22'-10	2 Series of 5	149										
A507		26'-2	14	382	SA520	Bt.	11'-4 to 22'-4	6 Series of 11	1159	SA521	Str.	10'-0	76	793	5407		6'-3	5	21	5645	5408	31'-11	3	144	W931		18'-2	2	124	W511		26'-4	2	55										
A508		26'-10	10	280	SA522		19'-8	74	1518	SA523		27'-8	30	866	5409		8'-3	5	28	5646	5410	31'-5	1	46	W932		32'-0	1	48	W933		16'-6	2	112	W512	Bt.	19'-10 to 25'-4	15 Series of 8	188					
A509		27'-1	17	480	SA524		27'-8	30	866	SA525	Bt.	23'-4 to 30'-2	6 Series of 10	1674	5410		9'-4	5	31	5647	5411	31'-5	1	47	W934		31'-5	2	101	W513		6'-8 to 18'-8	15 Series of 12	159										
A510		27'-9	7	203	SA526		27'-8	30	866	SA527		27'-8	30	866	5412		10'-4	5	35	5648	5413	30'-10	1	46	W935		13'-1	2	89	W514		19'-2 to 25'-4	15 Series of 7	162										
A511		9'-9	4	41	SA528		27'-8	30	866	SA529		27'-8	30	866	5414		11'-4	5	38	5649	5415	30'-3	1	45	W936		11'-5	2	78	W515		7'-10 to 17'-8	15 Series of 8	106										
A512	Bt.	8'-5	5	44	SA530		27'-8	30	866	SA531	Str.	10'-0	76	793	5416		12'-5	5	45	5650	5417	8'-7	2	58	W937		8'-7	2	58	Total Superstructure		81,339 Lbs.	81,227											
A513	Str.	4'-0	5	21	SA532		27'-8	30	866	SA533		27'-8	30	866	5418		13'-5	5	45	5651	5419	8'-10	2	46	W938		6'-10	2	46	W501		C-4	36	342										
A514	Bt.	5'-2	5	27	SA534		27'-8	30	866	SA535		27'-8	30	866	5420		14'-6	5	48	5652	5421	5'-2	2	35	W939		5'-2	2	35	W502		6'-6	32	312										
A515	Str.	10'-0	2	21	SA536		27'-8	30	866	SA537		27'-8	30	866	5422		15'-8	6	63	5653	5423	23'-9	2	162	W940		23'-9	2	162	W503	Bt.	5'-6	29	240										
A516	Bt.	6'-5	5	33	SA538		27'-8	30	866	SA539		27'-8	30	866	5424		16'-4	6	63	5654	5425	19'-7	2	133	W941		19'-7	2	133	W504		21'-0 to 31'-6	15 Series of 14	552										
A517	Bt.	5'-2	5	27	SA540		27'-8	30	866	SA541		27'-8	30	866	5426		17'-6	6	63	5655	5427	17'-9	2	121	W942		17'-9	2	121	W505		23'-8	25	889										
A518	Str.	3'-6	5	18	SA542		27'-8	30	866	SA543		27'-8	30	866	5428		18'-3	6	63	5656	5429	16'-3	2	111	W943		16'-3	2	111	W506		19'-2 to 22'-9	15 Series of 9	177										
A519		14'-3	4	59	SA544		27'-8	30	866	SA545		27'-8	30	866	5430		19'-0	6	63	5657	5431	14'-9	2	100	W944		14'-9	2	100	W507		100	10	47										
A520		19'-8	84	1723	SA546		27'-8	30	866	SA547		27'-8	30	866	5432		20'-10	104	3254	5433	25'-10 to 33'-8	15 Series of 18	559	W945		13'-3	2	90	W508		13'-3	2	90	W509		13'-3	2	90	W510		9'-11 to 21'-3	15 Series of 11	350	
A521		35'-8	10	312	SA548	Bt.	5'-7	88	738	SA549		27'-8	30	866	5434		21'-0	1	19	5658	5435	6'-3 to 23'-8	15 Series of 5	78	W946		11'-9	2	80	W701		23'-8	12	580	W511		29'-8 to 35'-1	15 Series of 14	1125					
A522		37'-9	20	787	SA550	Str.	7'-7	42	478	SA551		27'-8	30	866	5436		21'-0	1	23	5659	5437	8'-4 to 23'-5	15 Series of 4	67	W947		9'-2	2	62	W702	Bt.	5'-4	41	447	W512		4'-10	29	211					
A523		10'-0	108	144	1126	SA552		27'-8	30	866	SA553		27'-8	30	866	5438		21'-0	1	23	5660	5439	10'-0	1	130	W948		10'-0	2	130	W901		23'-8	12	966	W513		5'-10	64	997				
A524	Bt.	10'-0	38	396	SA554		27'-8	30	866	SA555		27'-8	30	866	5440		21'-0	1	13	5661	5441	10'-0	1	13	W949		12'-11	2	56	W703	Str.	6'-0	20	245	W514		31'-10	3	110	W522		4'-10	23	1100
A525		22'-10 to 29'-10	6	6 Series of 10	1648	SA556		27'-8	30	866	SA557		27'-8	30	866	5442		21'-0 to 25'-11	15 Series of 6	98</																								

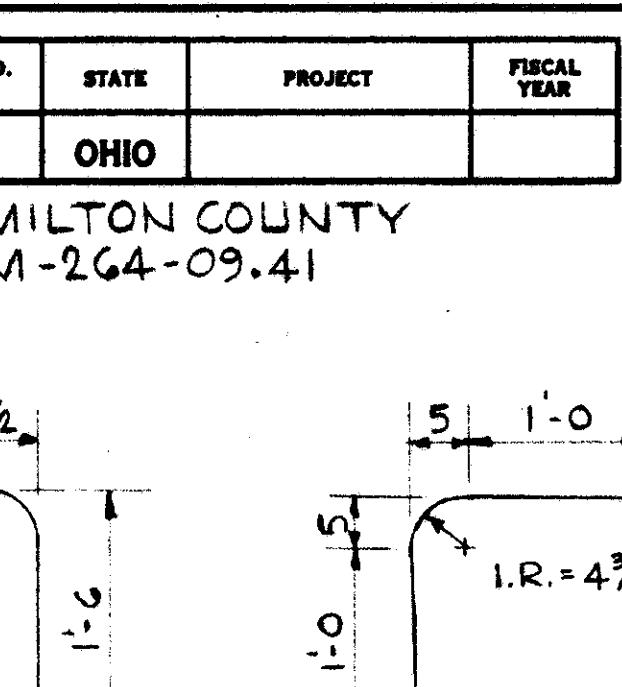
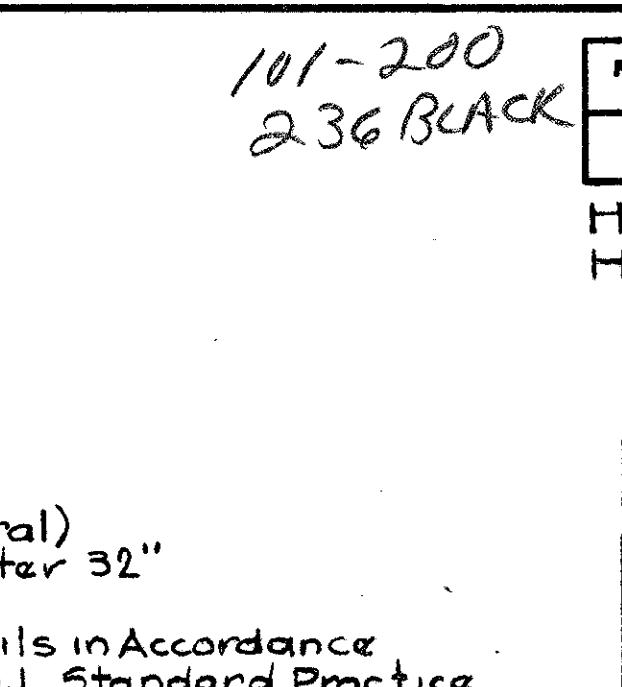
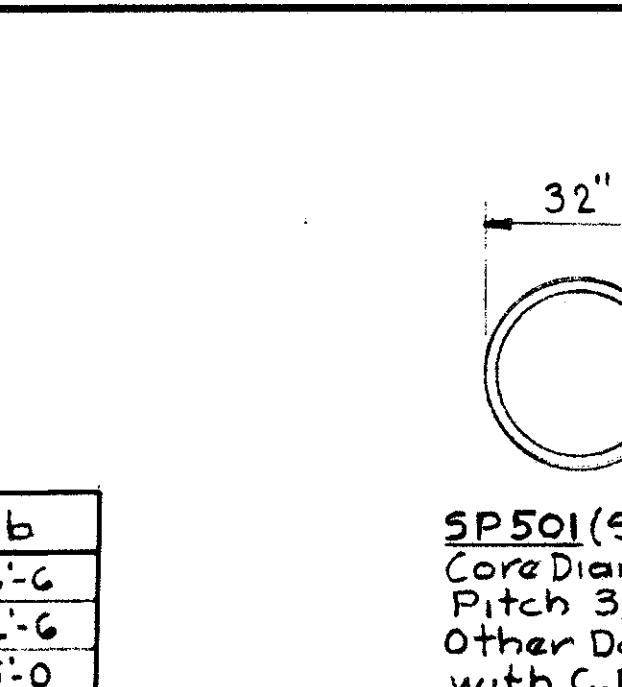
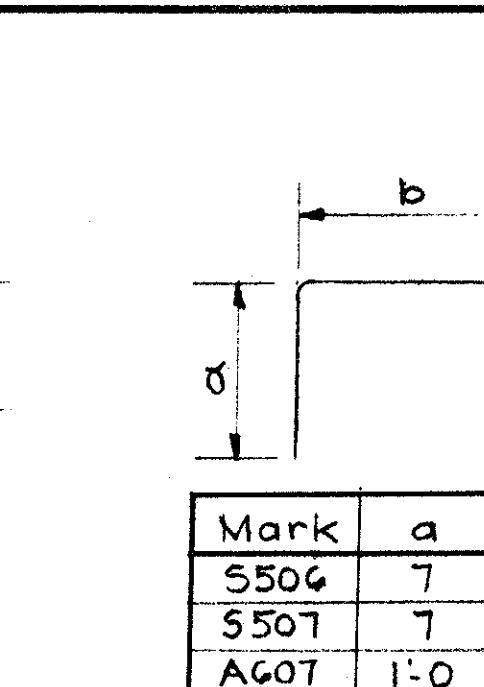
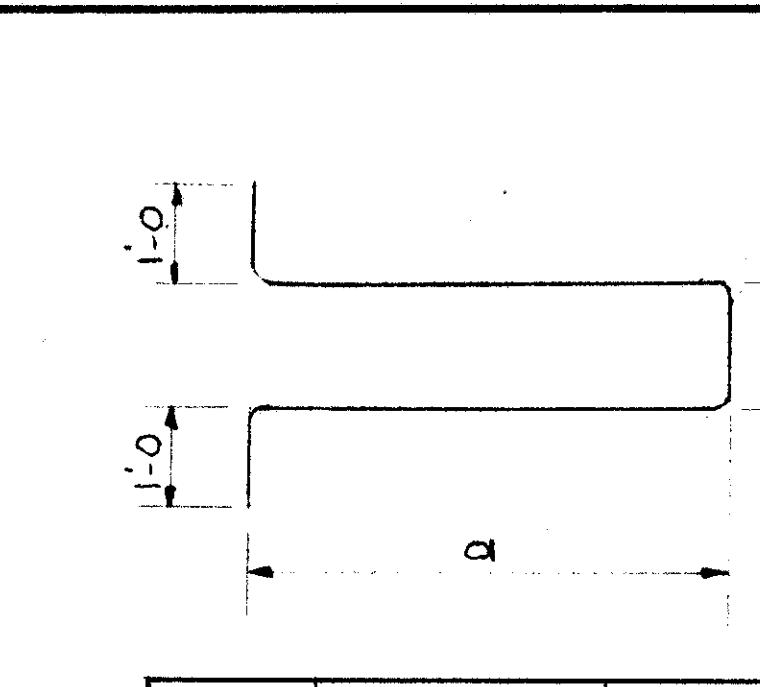
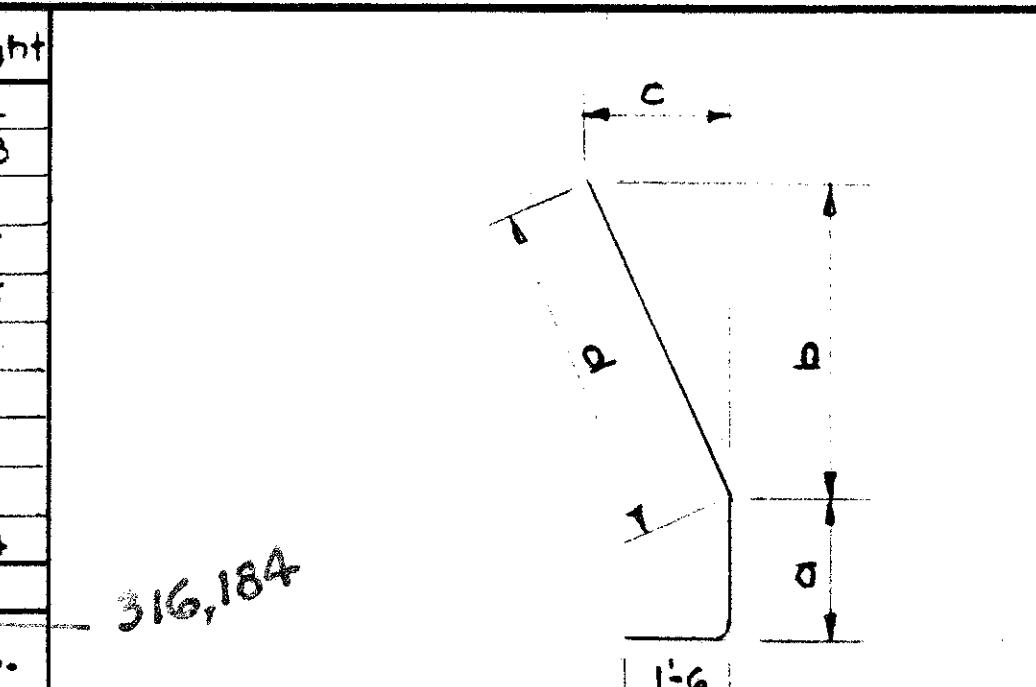
Mark	Type	Length	No. of Bars	Weight	Mark	Type	Length	No. of Bars	Weight
(Reinforcing Steel List Continued)									
SW1103	Bt.	23'-5	2	249	SW903	Bt.	22'-4	2	152
SW1104		35'-11	2	382	SW904		35'-9	2	243
SW1105		9'-1	2	97	SW905		10'-1	2	69
SW1106		15'-3	2	162	SW906		15'-6	2	105
SW1107		23'-9	2	252	SW907		22'-10	2	155
SW1108		32'-5	2	344	SW908		31'-3	2	213
SW1109		9'-3	2	98	SW909		10'-5	2	71
SW1110		15'-1	2	166	SW910		16'-0	2	109
SW1111		24'-4	2	259	SW911		23'-8	2	161
SW1112		29'-5	2	313	SW912		27'-0	2	184
Total Wing Wall No. 4 14,302 Lbs.									
Total Weight Reinforcing Steel 316,184 Lbs.									

WING WALL NO.4

Railing Parapet and End Posts Reinf.

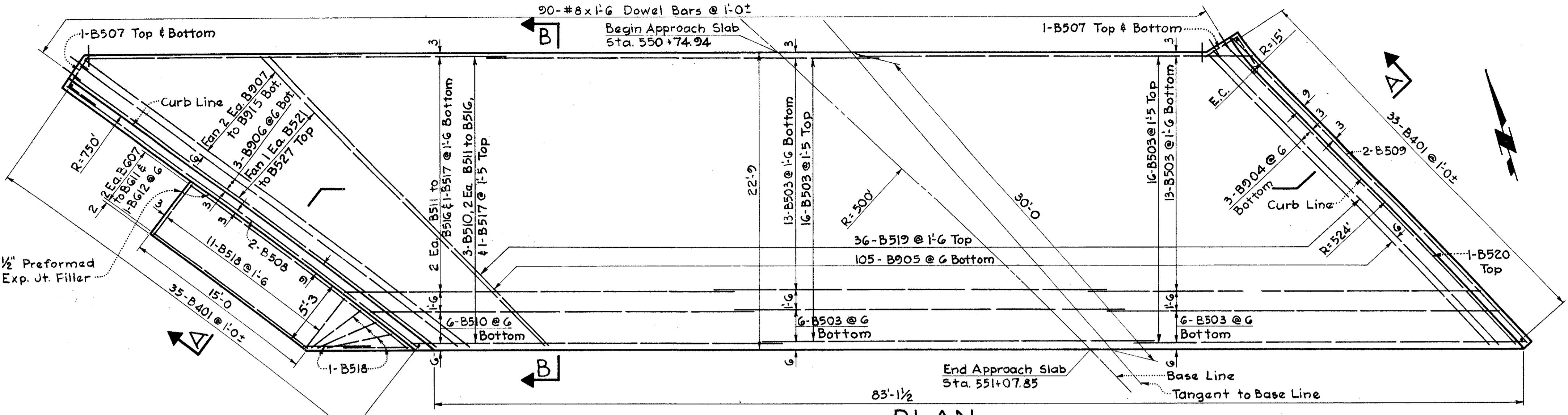
SW501	Str.	27'-8	59	1703	R501	Bt.	3'-3	8						
SW502		16'-8	19	330	R502		3'-7	8						
SW503		6'-6	45	305	R503		5'-3	6						
SW504		6'-6	40	271	R504		7'-7	8						
SW505		29'-6	8	246	R505	Str.	1'-8	16						
SW506		10'-0	12	125	R506	Bt.	4'-3	2						
SW507		7'-0 to 25'-0	15 Series of 7	117	R507	Str.	11'-0	8						
SW508		5'-0 to 25'-0	15 Series of 8	125	R508		14'-8	44						
SW509		31'-9	1	33	R509		7'-2	56						
SW510		18'-10 to 31'-9	15 Series of 18	475	R510		10'-7	8						
SW511		28'-10	2	60	Note: R5 bars shall be included in the price bid for item 517									
SW512	Bt.	3'-8	2	8										
SW513	Str.	2-8 to 28'-8	25 Series of 7	214										
SW514		6'-0 to 19'-5	15 Series of 10	133										
SW515		30'-10	2	64										
SW516	Bt.	7'-8 to 26'-4	15 Series of 18	319										
SW517		7'-8 to 26'-4	15 Series of 15	266										
SW518		8'-0 to 26'-4	15 Series of 12	215										
SW601	Str.	27'-8	13	540										
SW602	Bt.	5'-8	28	238										
SW603	Str.	7'-3	13	142										
SW604		32'-0	2	96										
SW605		15'-3 to 31'-3	15 Series of 13	493										
SW606	Bt.	4'-10	48	348										
SW607	Str.	5'-3	23	181										
SW608		8'-2	10	123										
SW609		6'-8 to 19'-5	15 Series of 12	235										
SW610		7'-3	1	11										
SW611		6'-1	1	9										
SW612	Str.	19'-7	1	29										
SW801	Bt.	6'-4	72	128										
SW802	Str.	16'-8	42	1869										
SW803		26'-9	2	143										
SW804		23'-7	2	126										
SW805		21'-7	2	115										
SW806		19'-6	2	104										
SW807		17'-6	2	93										
SW808		15'-5	2	82										
SW809		13'-5	2	72										
SW810		9'-11	2	53										
SW811		7'-10	2	42										
SW812		5'-10	2	31										
SW813		22'-4	2	115										
SW814		19'-8	2	105										
SW815		17'-11	2	96										
SW816		16'-3	2	87										
SW817		14'-7	2	78										
SW818		12'-10	2	69										
SW819		9'-11	2	53										
SW820		8'-3	2	44										
SW821		6'-7	2	35										
SW822		4'-10	2	26										
SW823		17'-9	2	95										
SW824		15'-8	2	84										
SW825		14'-4	2	77										
SW826		13'-0	2	69										
SW827		10'-7	2	57										
SW828		9'-3	2	49										
SW829		7'-11	2	42										
SW830		6'-7	2	35										
SW831		5'-3	2	28										
SW832		3'-10	2	20										
SW901	Bt.	9'-11	2	67										
SW902	Bt.	15'-2	2	103										

APR 16 1985
MURKIN

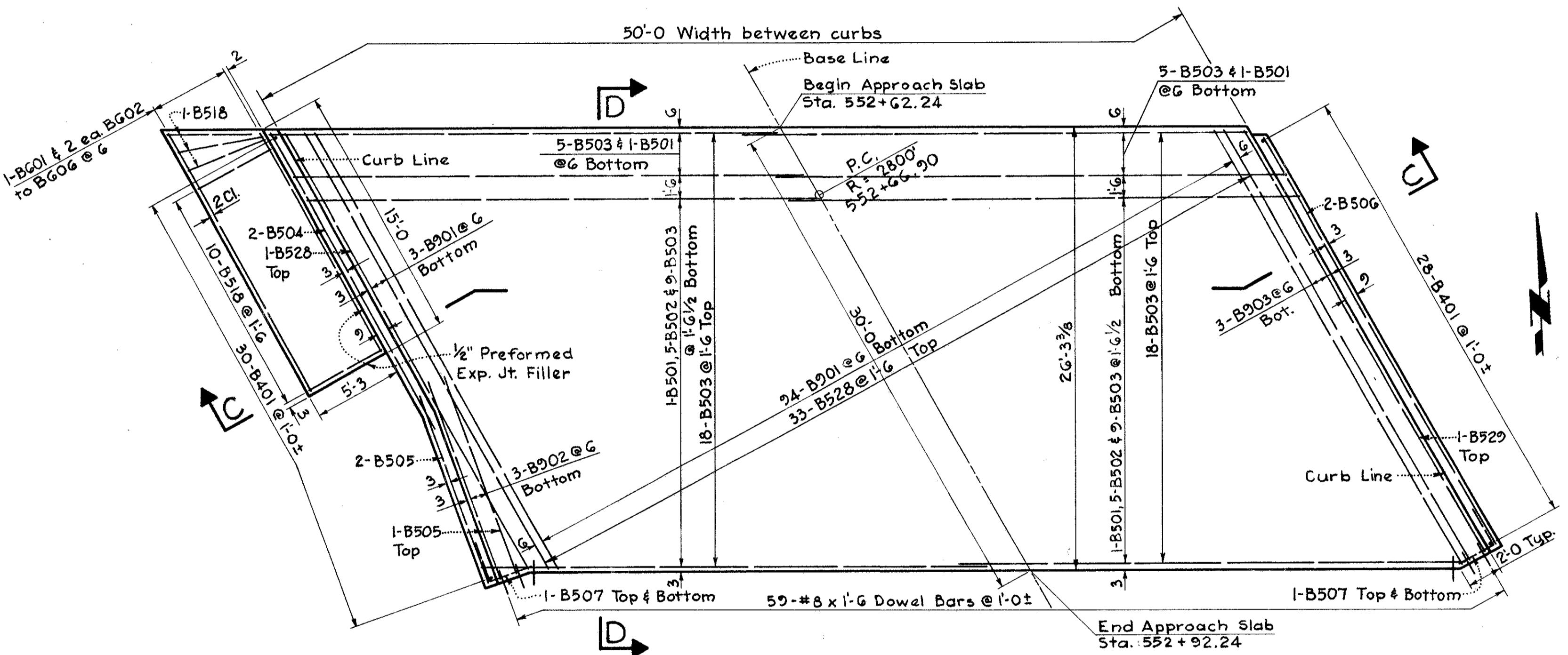


ED. RD. DIV.	STATE	PROJECT	FISCAL YEAR
2	OHIO		

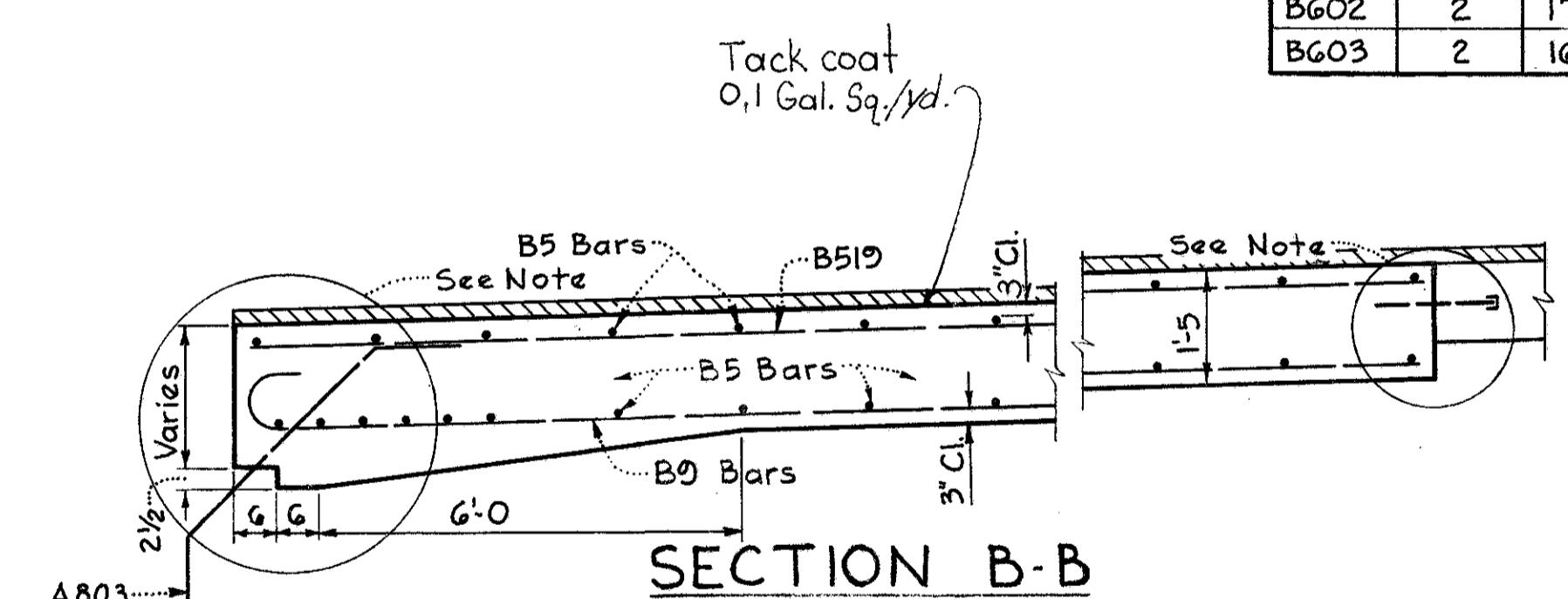
HAMILTON COUNTY
HAM-264-9.41



PLAN
NORTH APPROACH SLAB

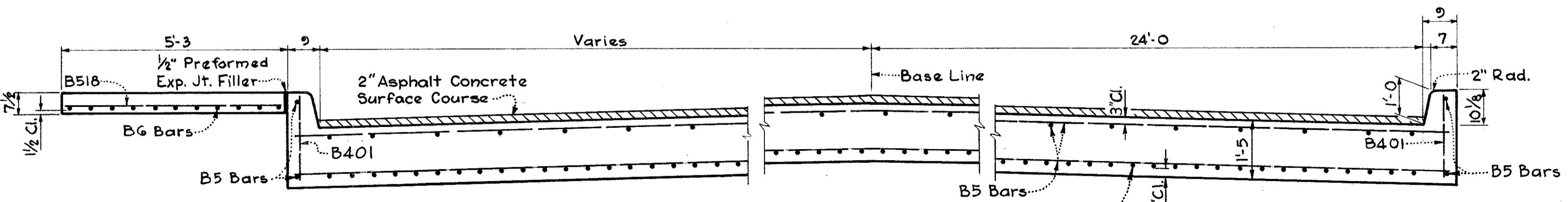


PLAN
SOUTH APPROACH SLAB



SECTION B-B

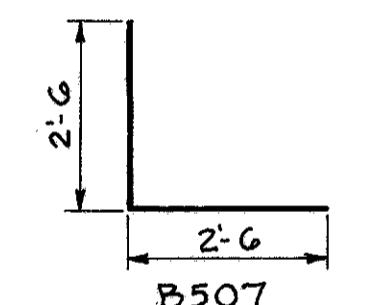
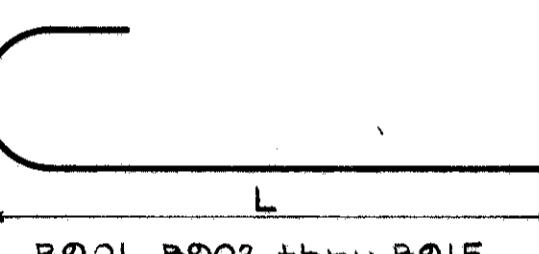
Note:
For notes and details not shown, see Std.
CWA AS-1-72 dated 6-30-72.



SECTION A-A
SECTION C-C SIMILAR

MACROFILME
APR 16 1985

MARK	NO.	LENGTH	SHAPE		MARK	NO.	LENGTH	SHAPE	L
401	126	1'-10	Str.		B604	2	15'-10	Str.	
501	4	29'-7	Str.		B605	2	15'-3		↑
502	10	30'-9		↑	B606	2	14'-9		
503	134	30'-0			B607	2	14'-9		
504	2	20'-0			B608	2	16'-0		
505	4	12'-6		↓	B609	2	17'-3		
506	2	27'-9	Str.		B610	2	18'-6		
507	8	4'-11	Bt.		B611	2	19'-9		↓
508	2	33'-10	Str.		B612	1	21'-0	Str.	
509	2	32'-4		↑					
510	9	29'-6			B901	97	30'-9	Bt.	29'-8
511	4	30'-9			B902	3	12'-6	Str.	
512	4	31'-9			B903	3	29'-11	Bt.	28'-8
513	4	32'-9			B904	3	32'-10		31'-7
514	4	33'-9			B905	105	32'-0		30'-9
515	4	34'-9			B906	3	36'-1		35'-0
516	4	35'-9			B907	2	38'-3		37'-0
517	2	32'-0			B908	2	37'-6		36'-3
518	29	4'-11			B909	2	36'-10		35'-7
519	36	30'-9			B910	2	36'-1		34'-10
520	1	32'-0			B911	2	35'-5		34'-2
521	1	35'-0			B912	2	34'-8		33'-5
522	1	34'-4			B913	2	34'-0		32'-9
523	1	33'-9			B914	2	33'-3		32'-0
524	1	33'-2			B915	2	32'-7	Bt.	31'-4
525	1	32'-6							
526	1	31'-11							
527	1	31'-4							
528	34	29'-8		↓					
529	1	28'-8	Str.						
601	1	17'-4	Str.						
602	2	17'-0	Str.						
603	2	16'-5	Str.						



ovement Jacking holes as shown
n Std. Drwg. AS-1-72 shall not
e used.

**CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING**

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