

PLAN

PROPOSED STRUCTURE

TYPE: Continuous steel beam with reinforced concrete deck and substructure.

SPANS: Southbound bridge; 38'-0", 50'-4", 52'-6", 42'-3"
 Northbound bridge; 37'-8", 42'-10", 52'-0", 41'-10"

ROADWAY:
 Southbound: 50'-0" f/p Parapet with 1'-2" Curbs.
 Northbound: 40'-0" f/p Parapet with 1'-2" Curbs.

LOAD FREQUENCY: C.F. 400 (57)

SKEW: Southbound bridge, 36°-20' R.F.
 Northbound bridge, 35°-33' R.F.

WEARING SURFACE: 1" monolithic concrete

APPROACH SLABS: AS-1-54 (25'-0" Long)

ALIGNMENT: Southbound bridge tangent
 Northbound bridge partially on 0°-15' curve

MICROFILMED
 OCT 31 1985

FED. RD. DIVISION	STATE	PROJECT
	OHIO	

BUTLER COUNTY BUT-63-0-00

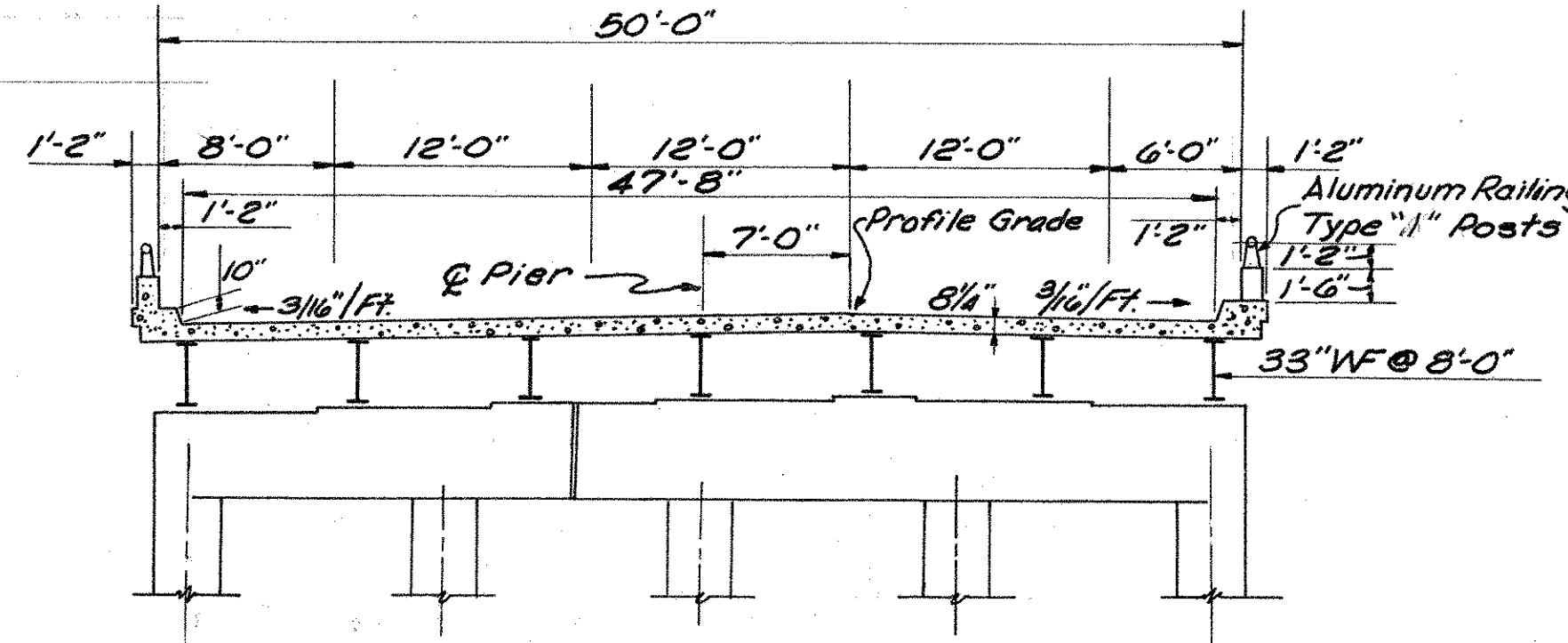
FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information, the accuracy of which the State does not guarantee, may be examined in the office of the Bureau of Bridges in Columbus or in the Division Office.

AVERAGE DAILY TRAFFIC on S.R. 4 - 1980

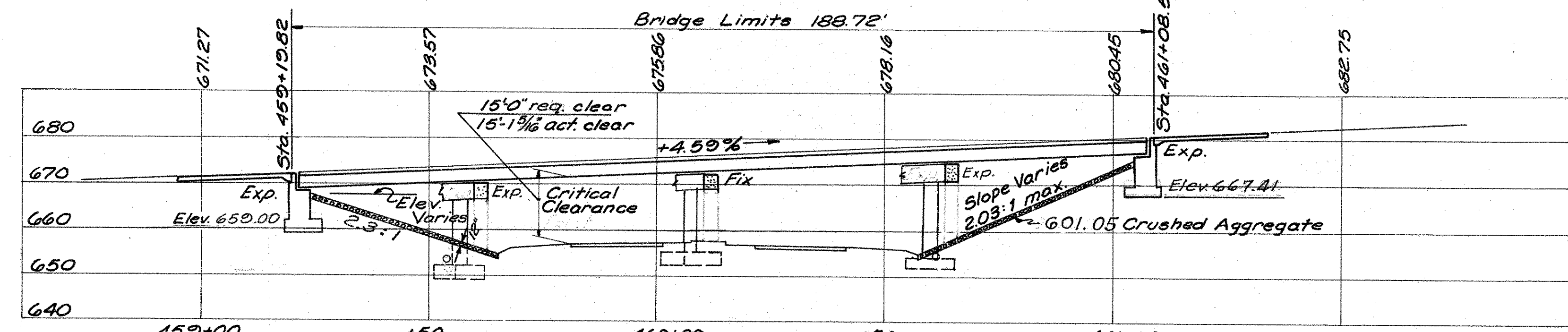
Passenger Cars	18600
Type A Vehicles	1410
Type B Vehicles	900
Type C Vehicles	1060

Based on 1960 Traffic Survey Report, Division of Planning and Programming, Ohio Dept. of Highways.

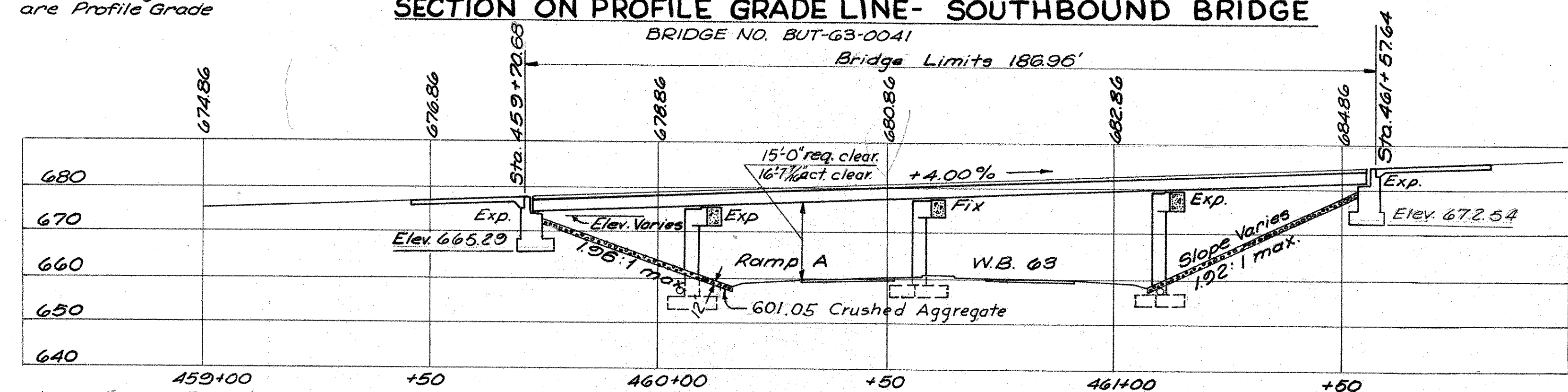
B.M. Elev. 687.20
 RR Spike in NW Quadrant of S.R. 4, Dozey Drive Intersection.



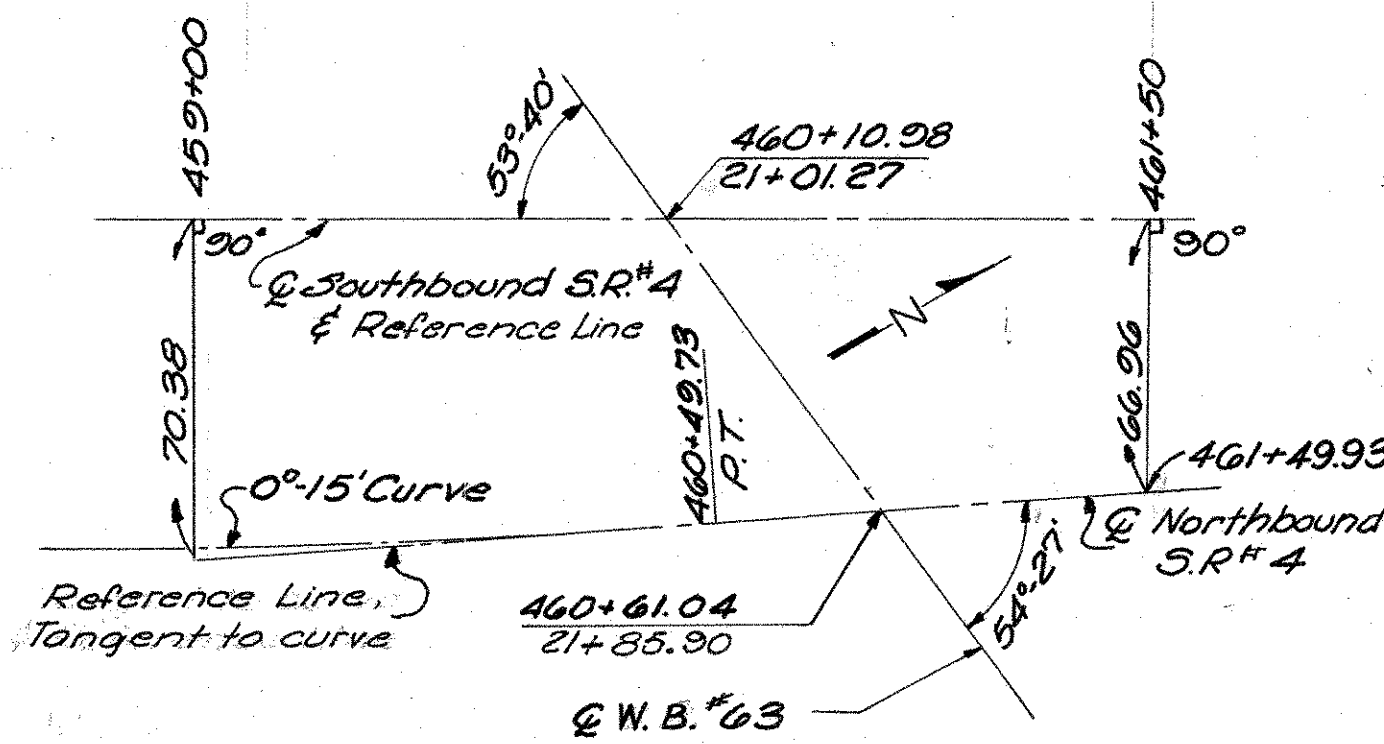
SECTION SOUTHBOUND BRIDGE LOOKING NORTH
 BRIDGE NO. BUT-63-0041



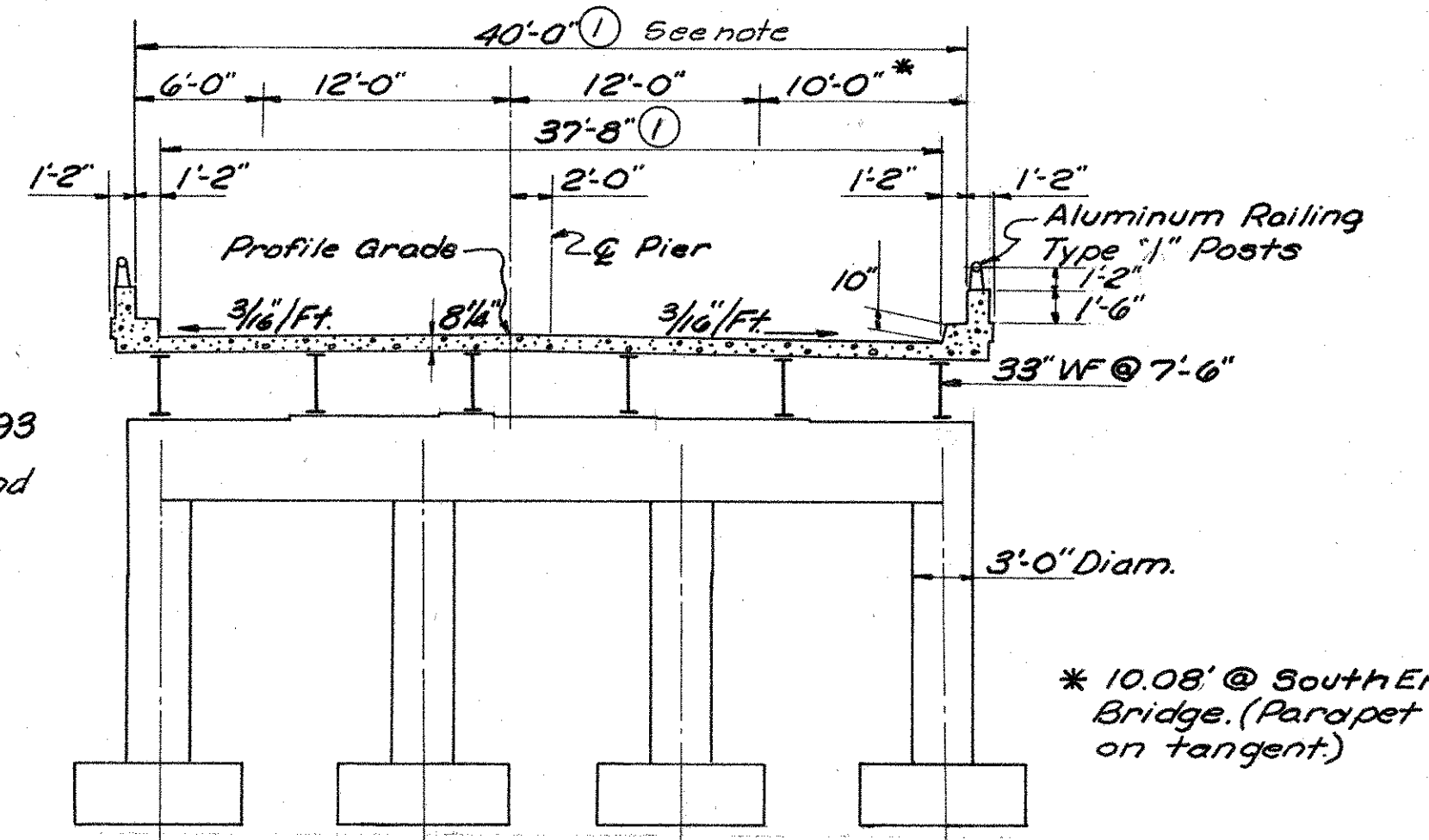
SECTION ON PROFILE GRADE LINE - SOUTHBOUND BRIDGE
 BRIDGE NO. BUT-63-0041



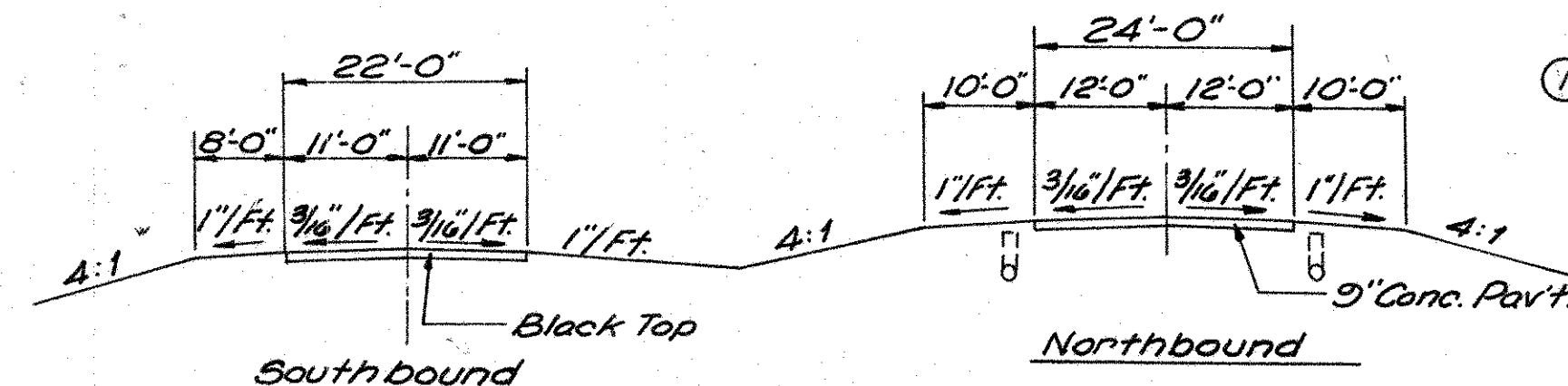
SECTION ON PROFILE GRADE - NORTHBOUND BRIDGE
 BRIDGE NO. BUT-63-0043



SKETCH SHOWING LINE AND SKEW OF BRIDGES



SECTION NORTHBOUND BRIDGE LOOKING NORTH
 BRIDGE NO. BUT-63-0043

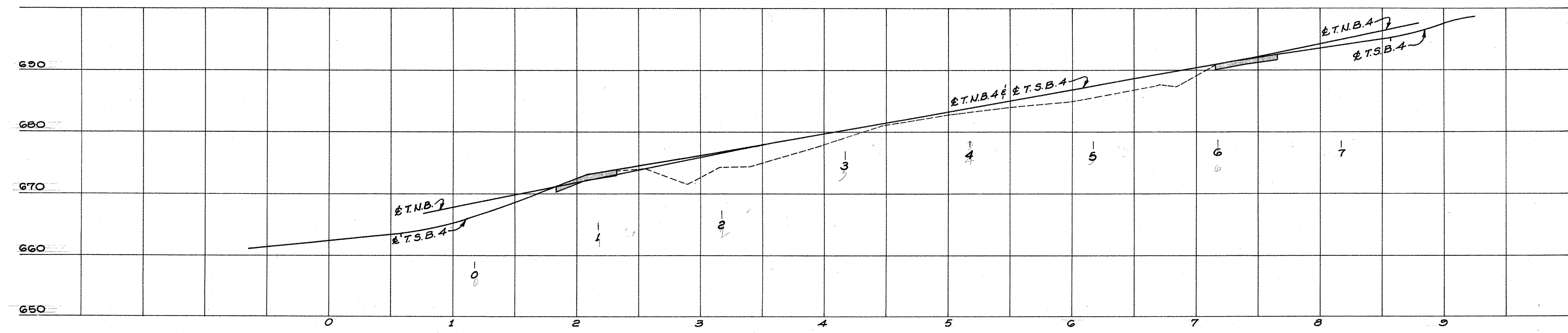
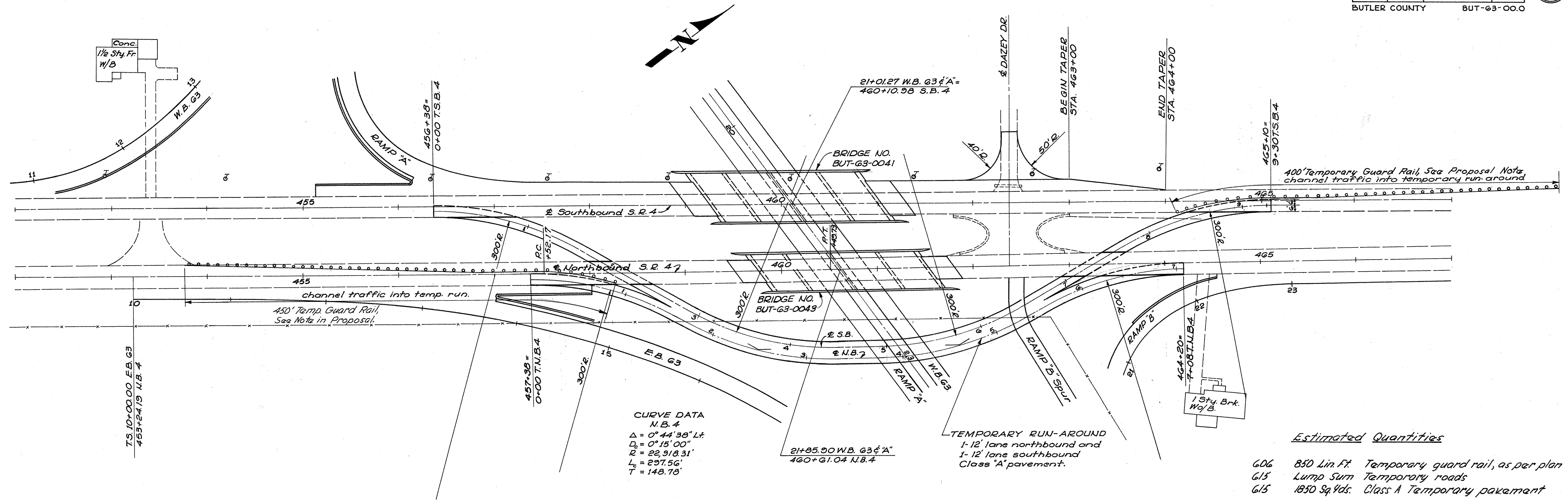


EXISTING PAVEMENT - S.R. 4 - Sta. 460+00

SHAW, LENZ & ASSOCIATES ENGINEERS
 CINCINNATI OHIO

SITE PLAN
 BRIDGE NO. BUT-63-0041 & 0043
 S.R. 63 RELOCATED
 UNDER S.R. 4
 BUTLER COUNTY STA. 21+01.27
 STA. 21+85.90

PRESENT TOPO	PROPOSED WORK
SURVEYOR R.L.B.	DRAWN W.J.B.
DESIGN'D R.J.L.	DRAWN W.J.B.
CHECK'D E.R.B.	REVISED



SHAW, LENZ & ASSOCIATES
ENGINEERS
CINCINNATI OHIO

SUPPLEMENTAL SITE PLAN
BRIDGE NO. BUT-63-0041 & 0043
S.R. G3 RELOCATED
UNDER S.R. 4

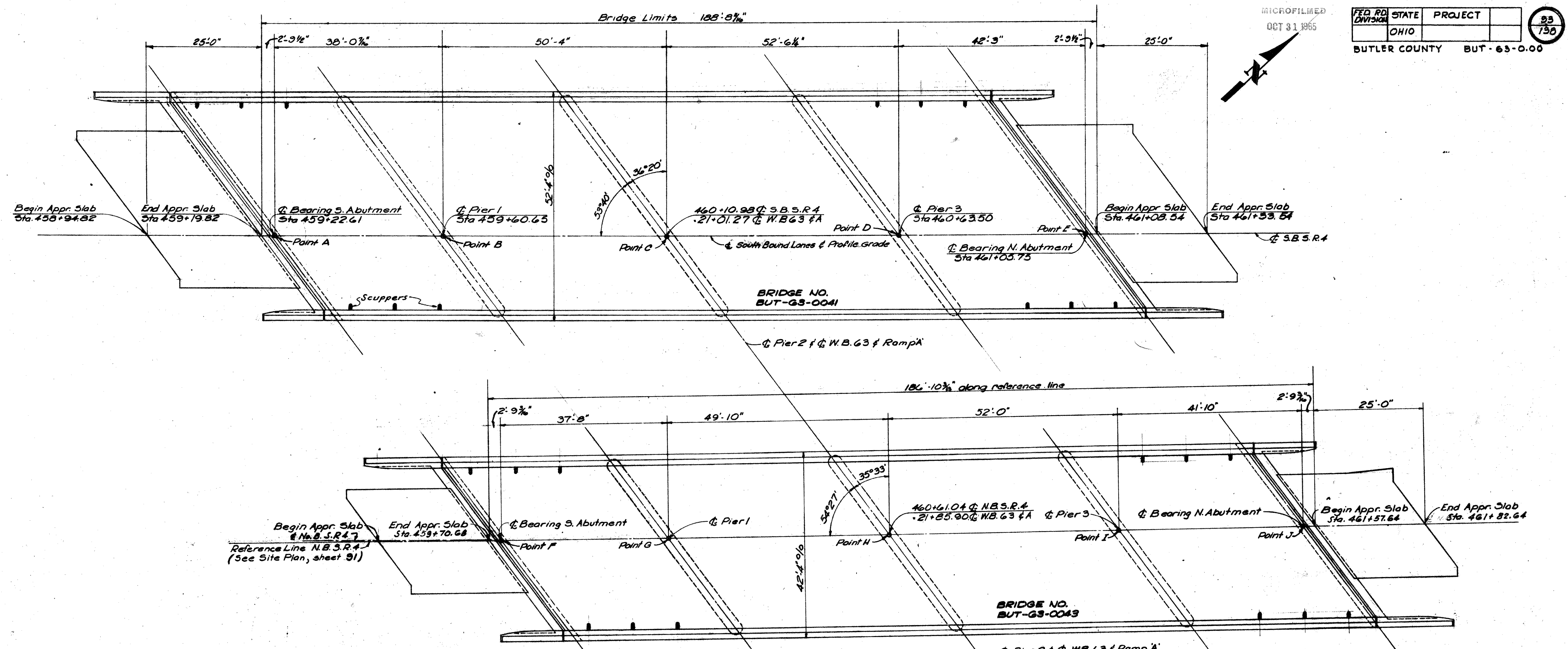
BUTLER CO. STA. 21+01.27
STA. 21+85.90

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RJL	DDS	SJB	RJL	RJL	7-25-62	

MICROFILMED
OCT 31 1965

FED. RD. DIVISION	STATE	PROJECT
	OHIO	
BUTLER COUNTY		BUT-63-0-00

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GENERAL NOTES

REFERENCE shall be made to Standard Drawing SD-1-63 Sheets 2,3 and 4, dated 11-12-63 SD-2-64, dated 11-25-64, FSB-1-62, rev. 1-15-63, BR-1-65 Sheet 1, revised 11-24-65 & Supplemental Specifications No. 808 dated 2-7-66, 811 dated 3-29-65, 825 dated 4-22-65, and 828 dated 3-21-66.

DESIGN SPECIFICATIONS. This structure conforms to the requirements of "Design specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.

FOUNDATION BEARING PRESSURE: Abutment footings are designed for a maximum bearing pressure of 1.7 Tons per sq. ft. Pier footings are designed for a maximum bearing pressure of 2.5 Tons per sq. ft.

DESIGN DATA:
Design Loading - CF 400 (57).
Concrete Class C - basic unit stress 1,333 psi.
Concrete Class E - basic unit stress 1,133 psi.
Structural Steel - ASTM A36 - basic unit stress 20,000 psi.
(ASTM A7 and A373 steel not permitted)
Reinforcing Steel - ASTM A15, A16, A160, Deformed, Intermediate, or Hard Grade. Basic unit stress 20,000 psi. Except, spiral reinforcement may be plain, Structural Grade with basic unit stress of 18,000 psi.

CONCRETE DECK PLACING: In order to facilitate water curing of the concrete of the deck slab, the placing of concrete shall progress up grade. The slab may be placed in sections, between transverse construction joints which are parallel to transverse reinforcing steel and are located near the center of any span.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

UTILITY LINES
All expense involved in relocating the affected utility lines shall be borne by the owners. The Contractor and Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either will be held to a minimum.

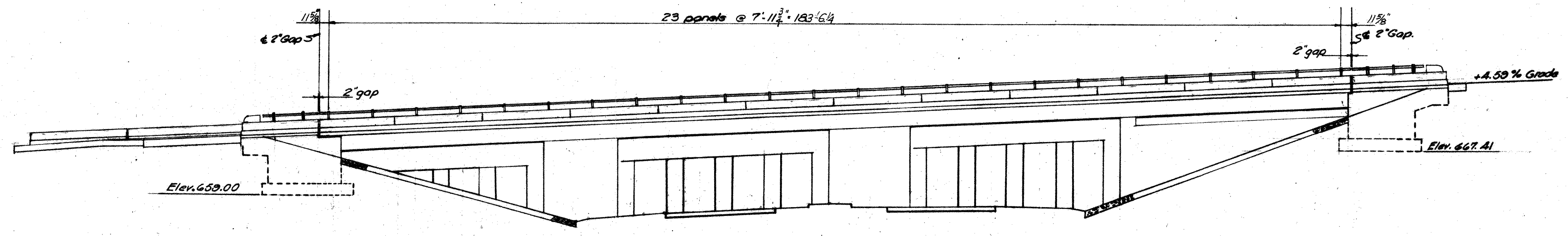
FOOTINGS on rock shall extend to a minimum of 3" into the undisturbed rock, or to the elevation shown, whichever is lower.

SHAW, LENZ & ASSOCIATES		ENGINEERS		OHIO	
CINCINNATI					
GENERAL PLAN & GENERAL NOTES					
BRIDGE NO. BUT-63-0041 & 0043					
S.R. 63 RELOCATED					
UNDER S.R. 4					
BUTLER COUNTY				Sta. 21+01.27	
				Sta. 21+85.90	
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
ERB	DDS	DDS	ERB	R.J.L.	7-25-62

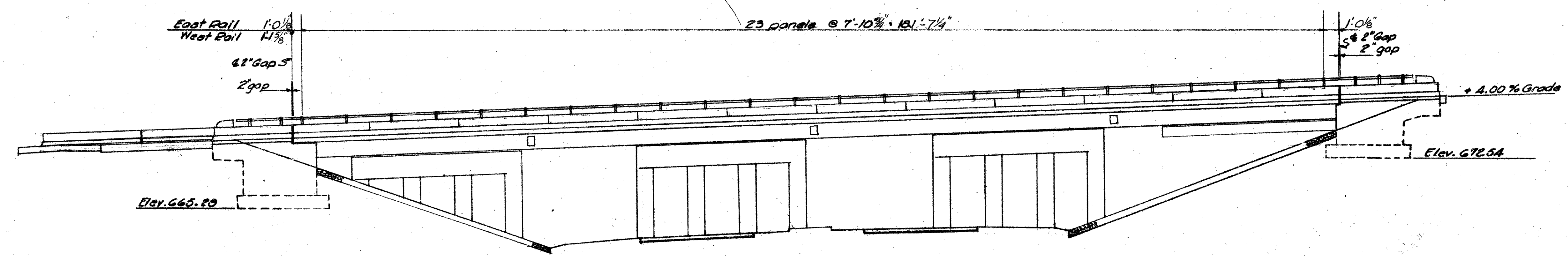
MICROFILMED
OCT 31 1985

FED. RD. DIVISION	STATE	PROJECT
	OHIO	
BUTLER COUNTY BUT-65-0.00		

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ELEVATION
SOUTHBOUND BRIDGE
BRIDGE NO. BUT-63-0041



ELEVATION
NORTHBOUND BRIDGE
BRIDGE NO. BUT-63-0043

ESTIMATED QUANTITIES										
Item	Total	Unit	Description	NORTHBOUND BRIDGE			SOUTHBOUND BRIDGE			GENERAL
				Super.	Abuts.	Pier	Super.	Abuts.	Pier	
503	348	Cu.Yds.	Unclassified Excavation		382			466		
503	282	Cu.Yds.	Rock Excavation			145		197		
511	499	Cu.Yds.	Class "C" Concrete, Superstructure	225			274			
511	253.5	Cu.Yds.	Class "C" Concrete, Pier Caps and Columns			115.1		140.4		
511	319.3	Cu.Yds.	Class "C" Concrete, Abutments above footings		139.0			180.3		
511	349.2	Cu.Yds.	Class "E" Concrete, Footings		61.2	99.6		73.5	114.9	
808	499	Units	Water reducing Set retarding admixture	225			274			
512	9.7	Lin. Ft.	Premolded Sealing Strip					9.7		
509	235,922	Lbs.	Reinforcing Steel	63596	9916	31,900	81134	11,973	37,803	
513	404,500	Lbs.	Structural Steel	183,500			221,000			
514	404,500	Lbs.	Field Painting of Structural Steel	183,500			221,000			
517	846.3	Lin. Ft.	Bridge Railing (Type 1, with concrete parapets and posts)	367.4	64.0		370.9	54.0		
518	69	Cu.Yds.	Porous Backfill		30			39		
518	24	Each	Scupper, including supports	12			12			
601	1550	Sq. Yds.	Crushed aggregate slope protection						1550	
825	2,128	Sq. Yds.	Concrete surface treatment	932	23		1145	28		
828	211	Lin. Ft.	Joint sealer (end dam)	93			118			

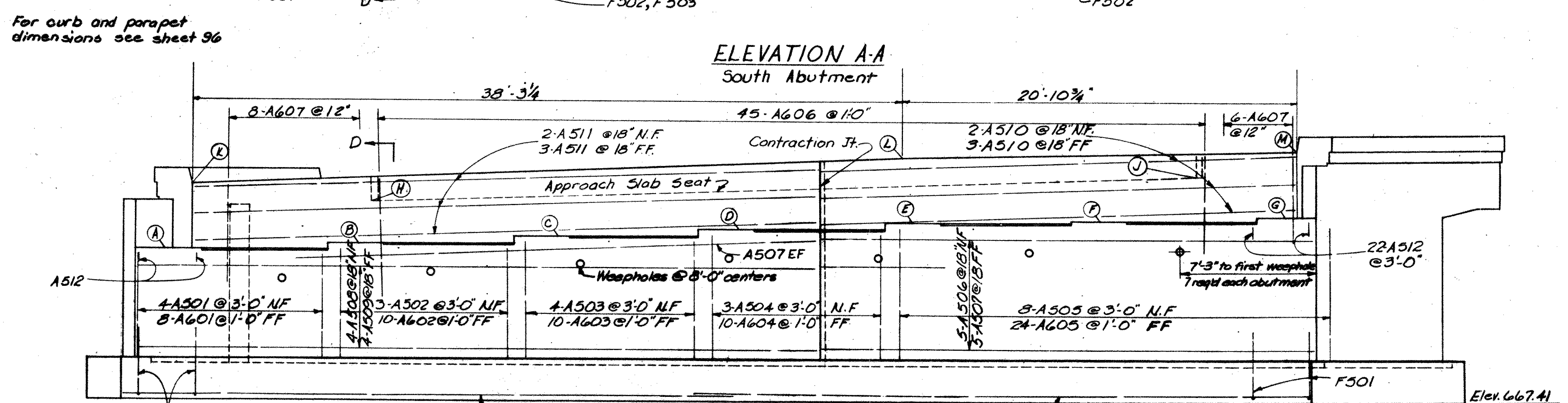
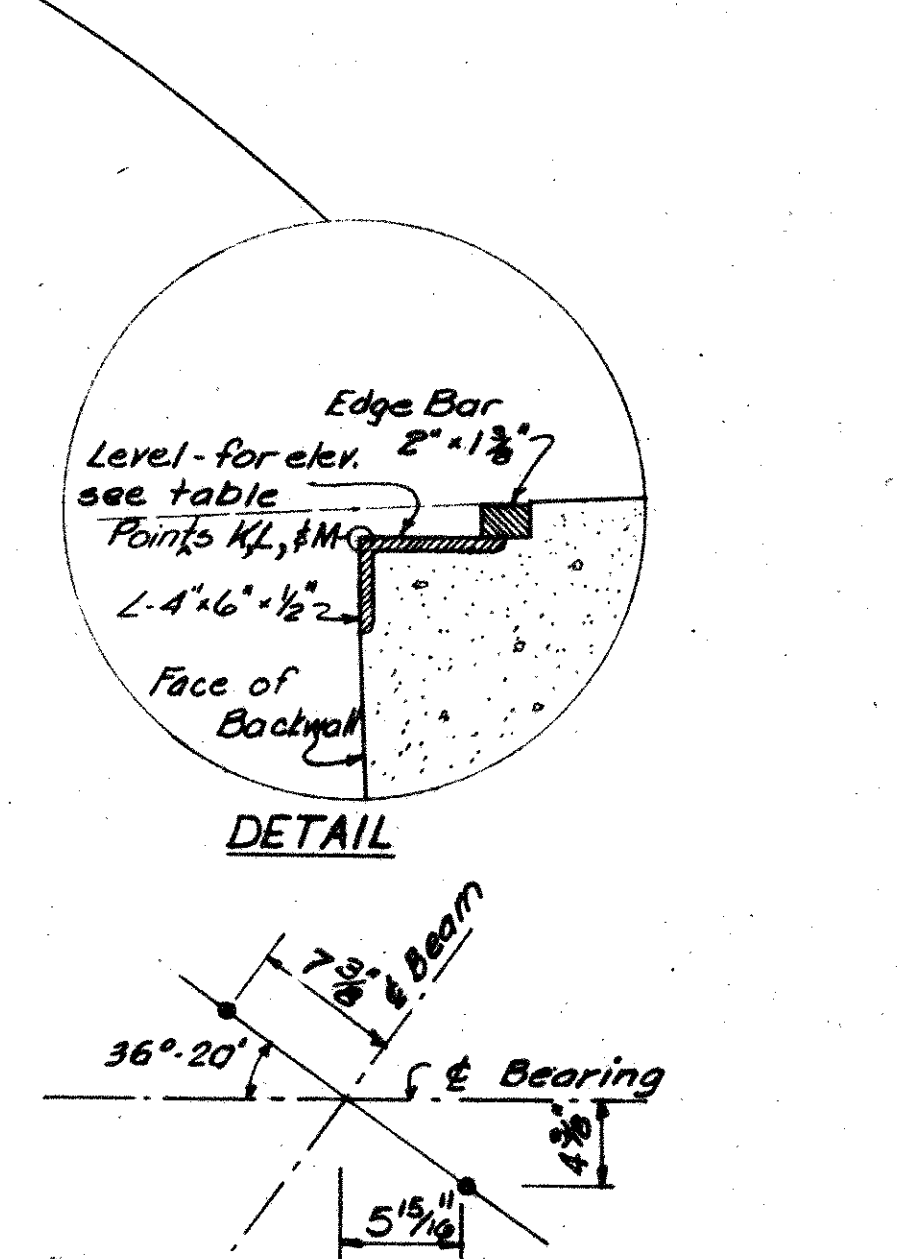
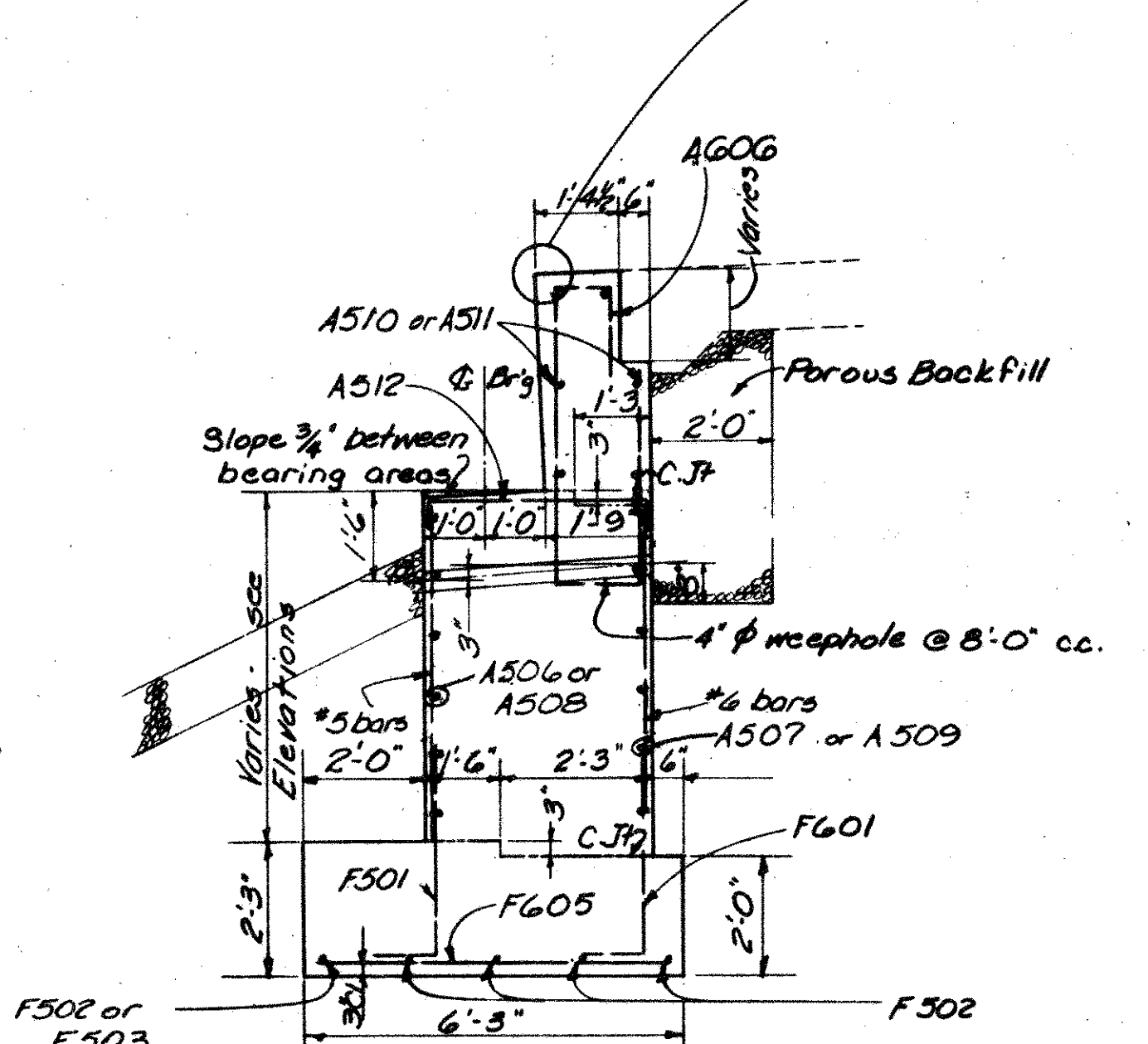
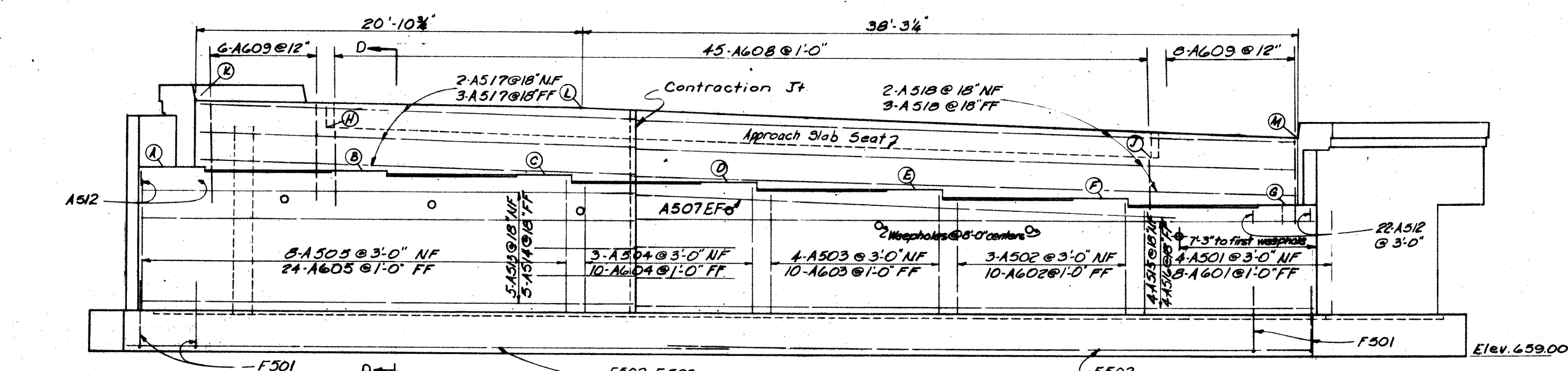
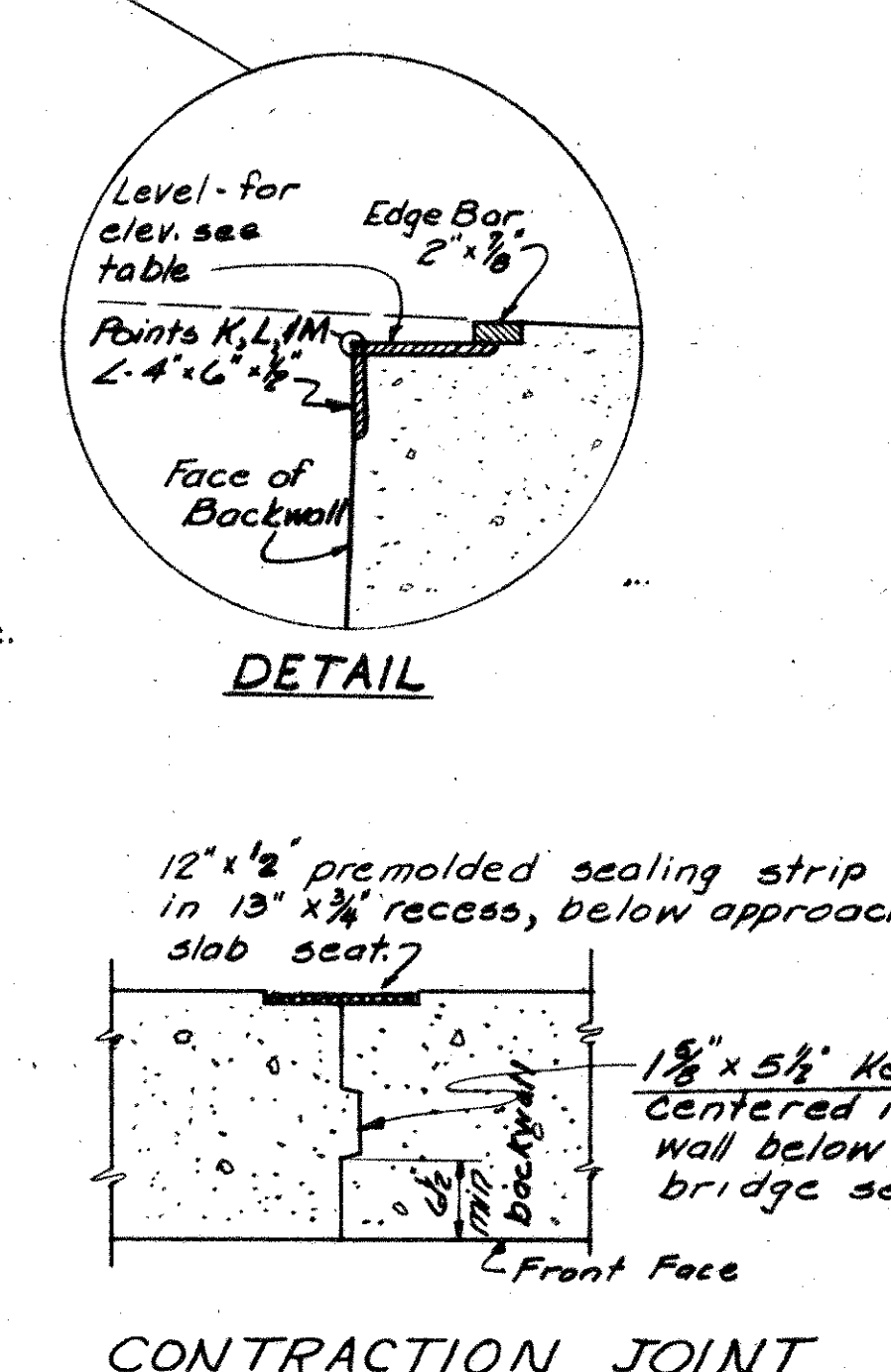
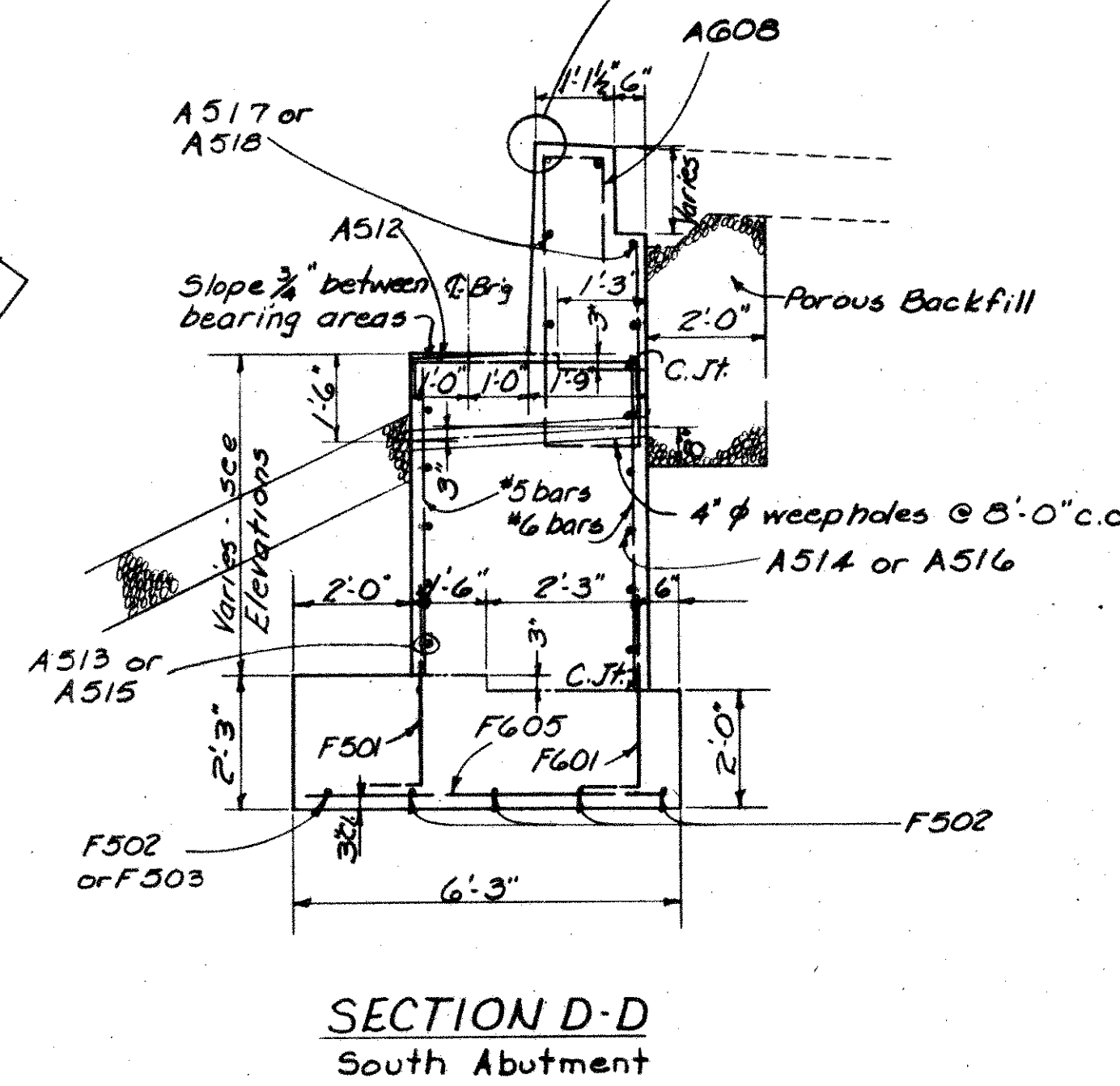
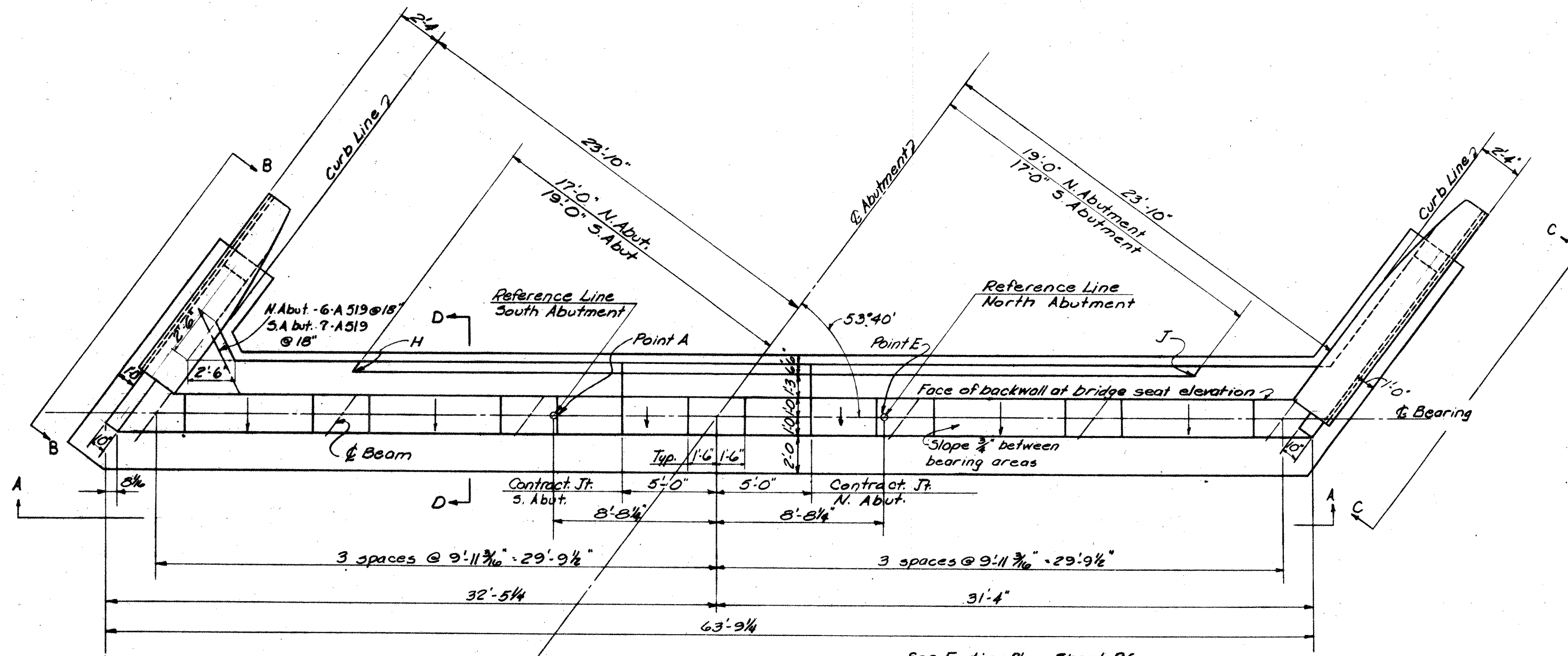
Approach Slab quantities not included

SHAW, LENZ & ASSOCIATES
ENGINEERS
CINCINNATI OHIO

ELEVATION & ESTIMATED QUANTITIES
BRIDGE NO. BUT-63-0041 & 0043
S.R. 63 RELOCATED
UNDER S.R. 4

BUTLER COUNTY Sta. 21+01.27
Sta. 21+65.90

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ERS	DDS	DDS	ERS	RJL	7-25-62	



Note:
 All reinforcing steel to have 2" min. cover unless otherwise noted.
 For Bridge Roadway Crown see sheet 103
 For End Finish Details see sheet 102
 For Bridge Railing Details see Std. Dwg. BR-1-65
 For Elevations BB & CC see sheet 96.

NF indicates Near Face
 FF indicates Far Face
 EF indicates Each Face

Note: Special care shall be taken in placing reinforcing steel in the bridge seat so as to avoid interference with the drilling of anchor bar holes

TABLE OF ELEVATIONS

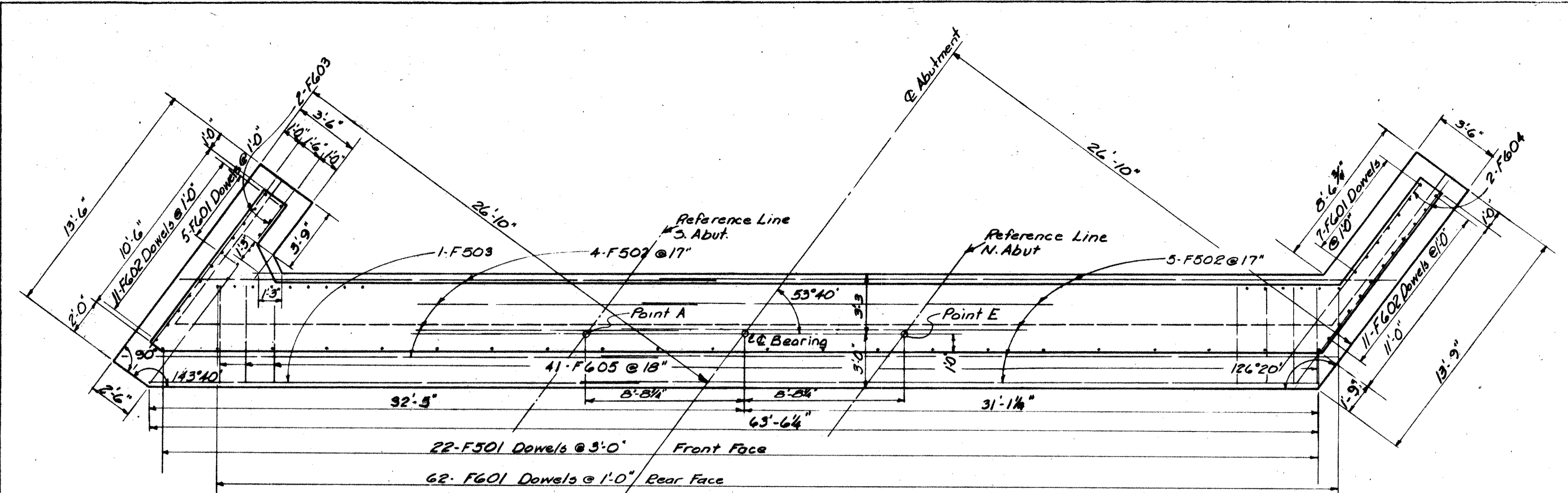
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North Abutment	675.36	675.76	676.15	676.55	676.91	677.05	677.20	678.67	679.85	679.15	680.67	680.98
South Abutment	668.80	668.85	668.50	668.14	667.74	667.35	666.96	671.19	670.01	672.45	672.14	670.62

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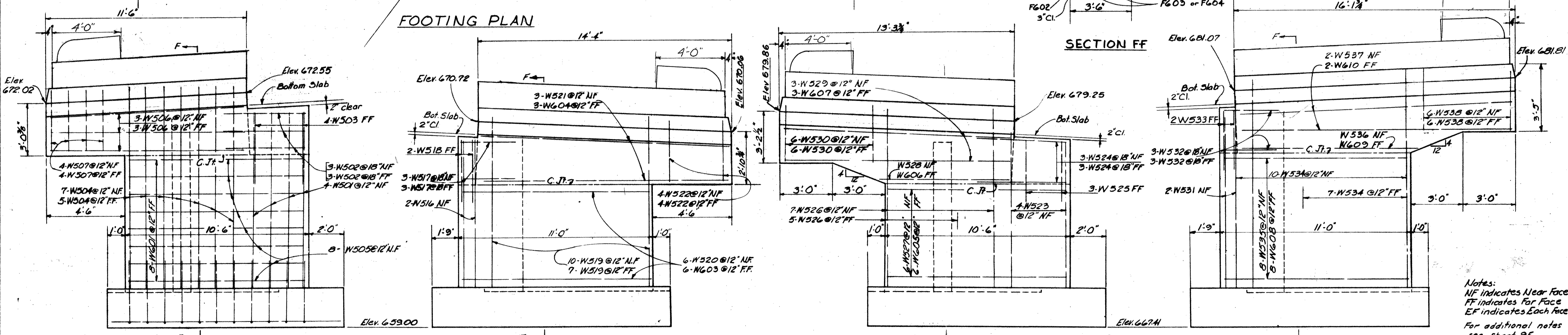
SOUTHBOUND BRIDGE
 ABUTMENT DETAILS
 BRIDGE NO. BUT-63-0041
 S.R. 63 RELOCATED
 UNDER S.R. 4

BUTLER COUNTY
 3/16/21/01/27/21/85/90

DESIGNED DRAWN CHECKED REVISIONS
 ERB DDS DDS R.J.L. R.J.L. 7-25-82



FOOTING PLAN

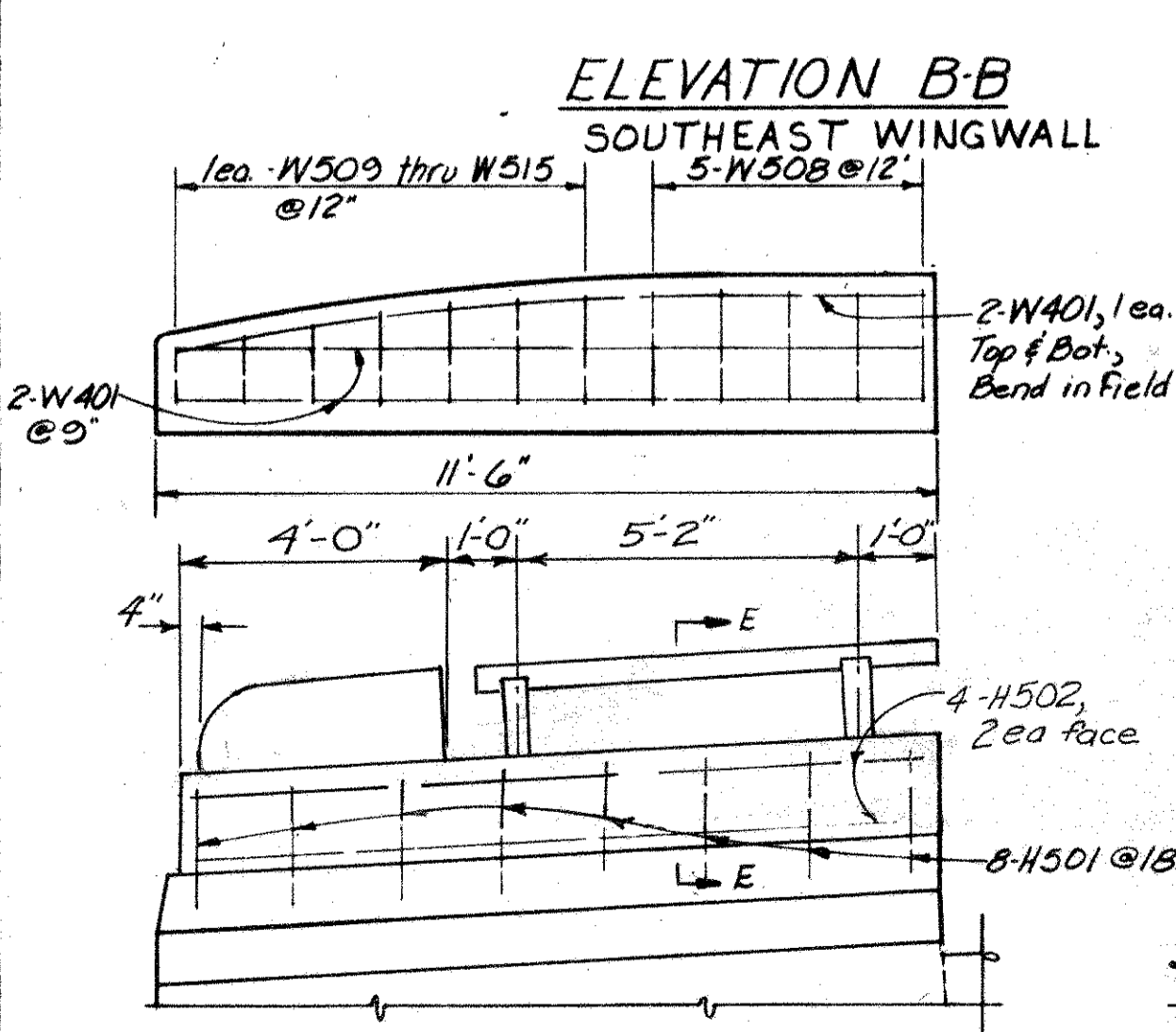


SECTION FF

CURB CURVE DETAIL

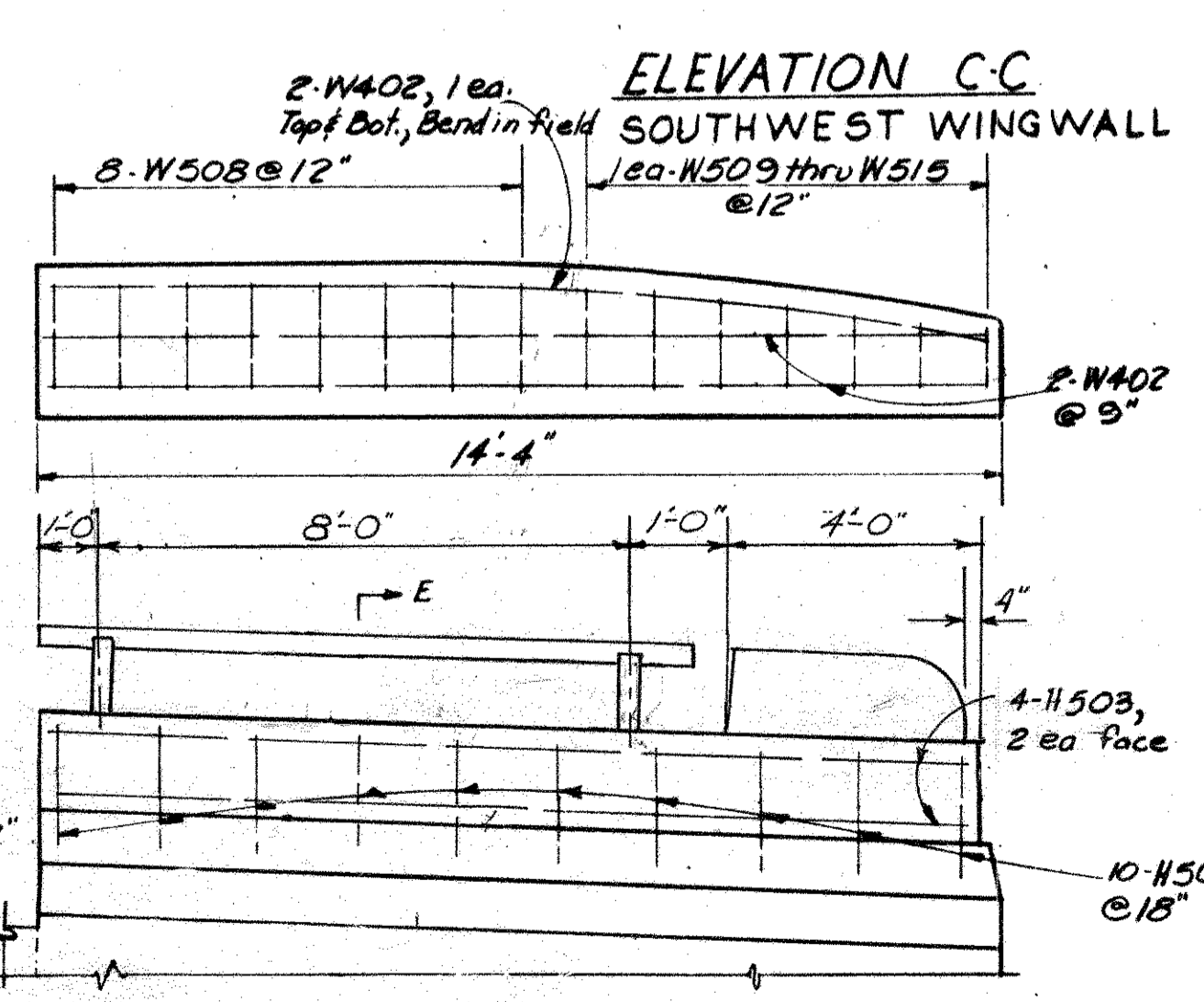
CORNER DETAIL of CURB

Notes:
 NF indicates Near Face
 FF indicates Far Face
 EF indicates Each Face
 For additional notes see sheet 95



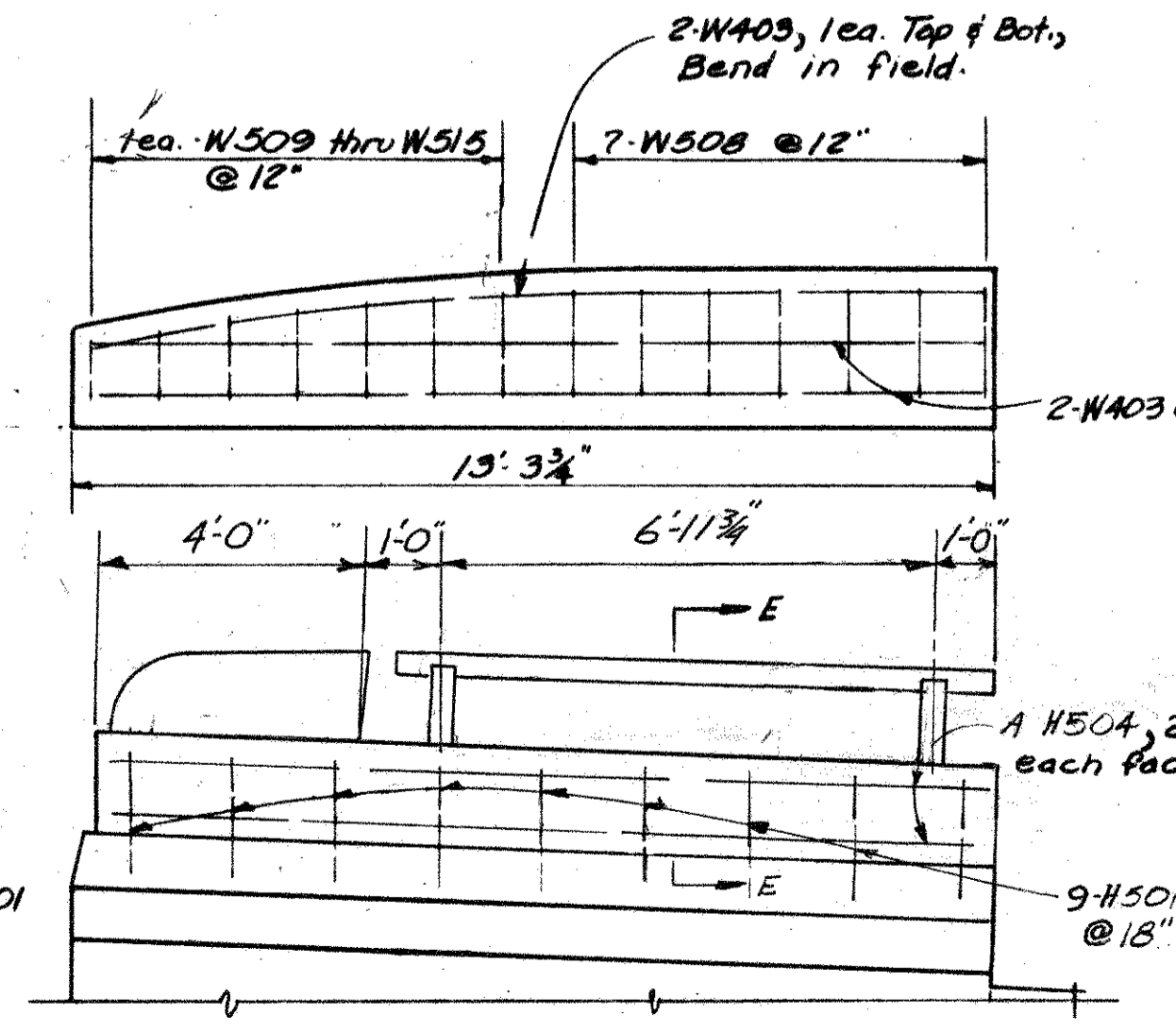
ELEVATION B-B SOUTH EAST WINGWALL

SOUTHEAST WINGWALL



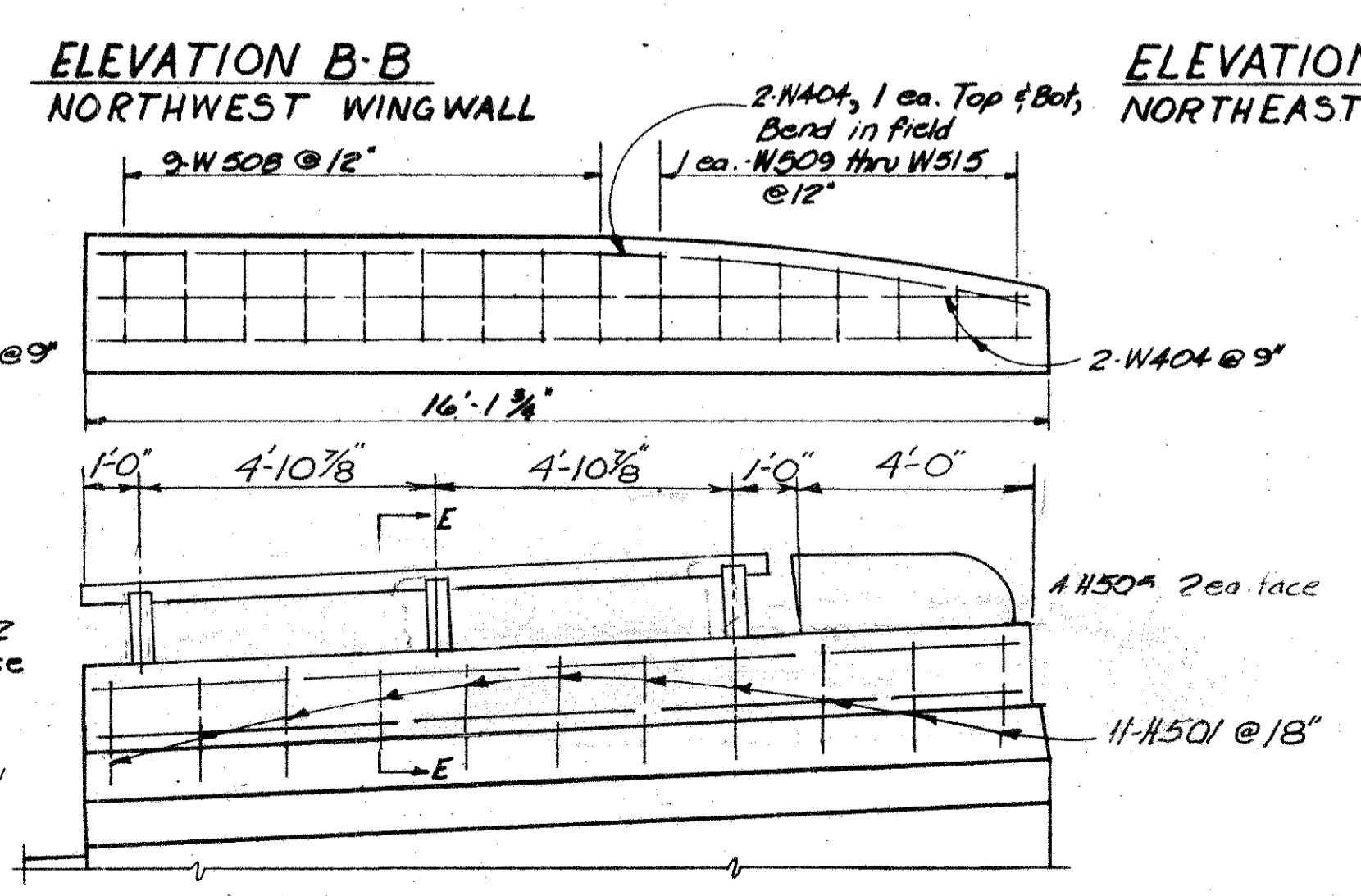
ELEVATION C-C SOUTH WEST WINGWALL

SOUTHWEST WINGWALL



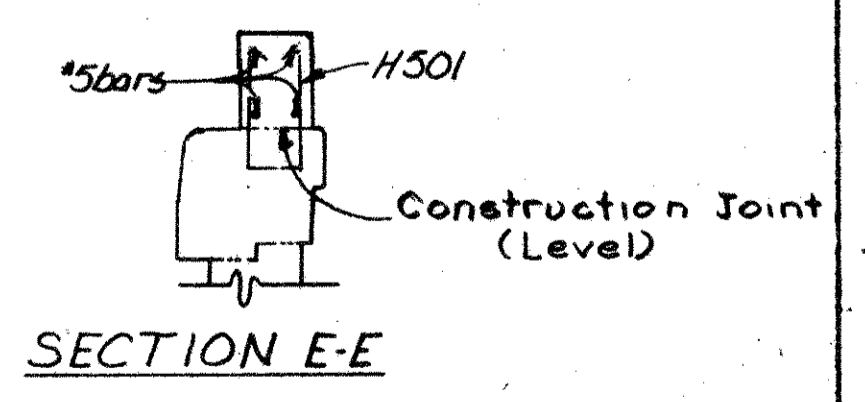
ELEVATION B-B NORTH WEST WINGWALL

NORTHWEST WINGWALL



ELEVATION C-C NORTH EAST WINGWALL

NORTHEAST WINGWALL



SECTION E-E

Note: For reinforcing and other details of railing end post see Dwg. B.R.-1-65.

RAILING, PARAPET & CURB

SHAW, LENZ & ASSOCIATES ENGINEERS				
CINCINNATI OHIO				
SOUTHBOUND BRIDGE				
ABUTMENT DETAILS				
BRIDGE NO. BUT-63-00H				
S.R. 63 RELOCATED UNDER S.R. 4				
BUTLER COUNTY Sta. 21+01.27 to 21+85.90				
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE
ERB	DDS	DDS	ERB	R.J.L. 7-25-62

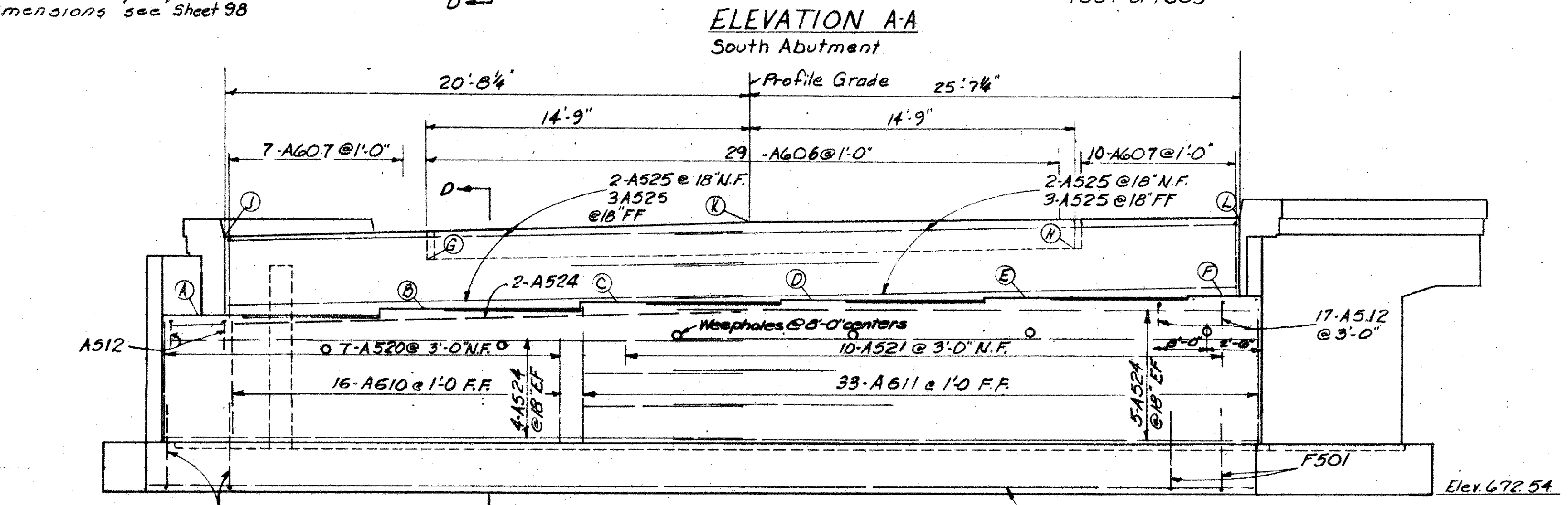
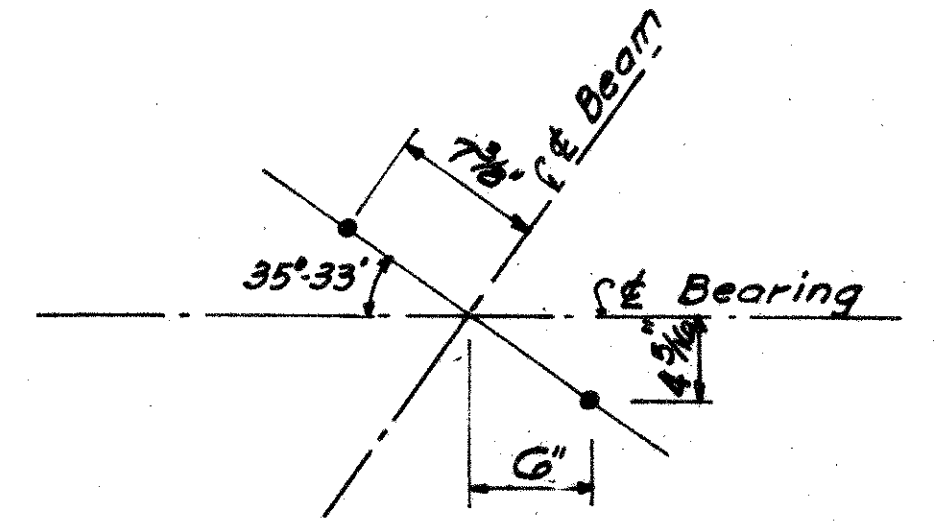
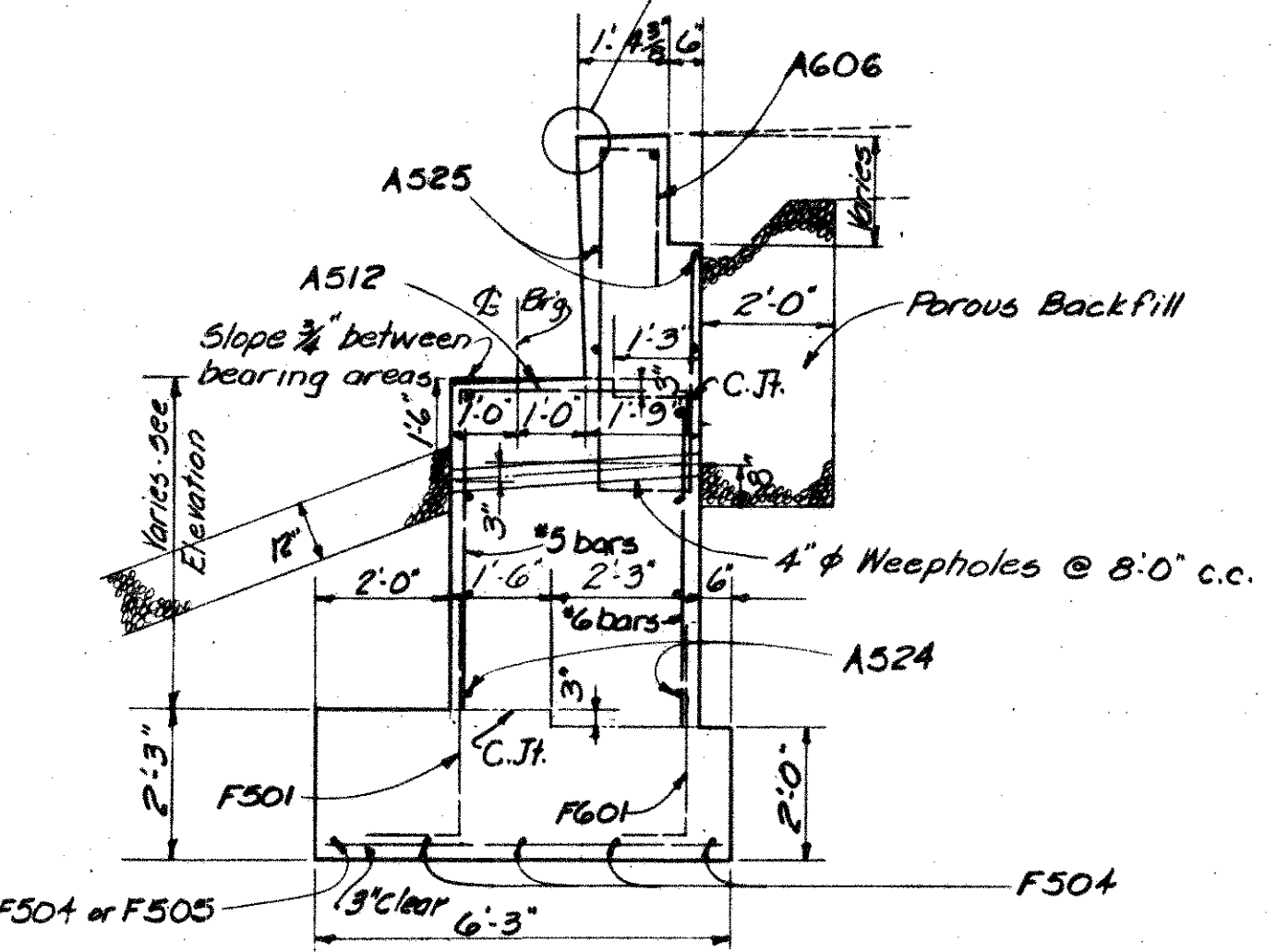
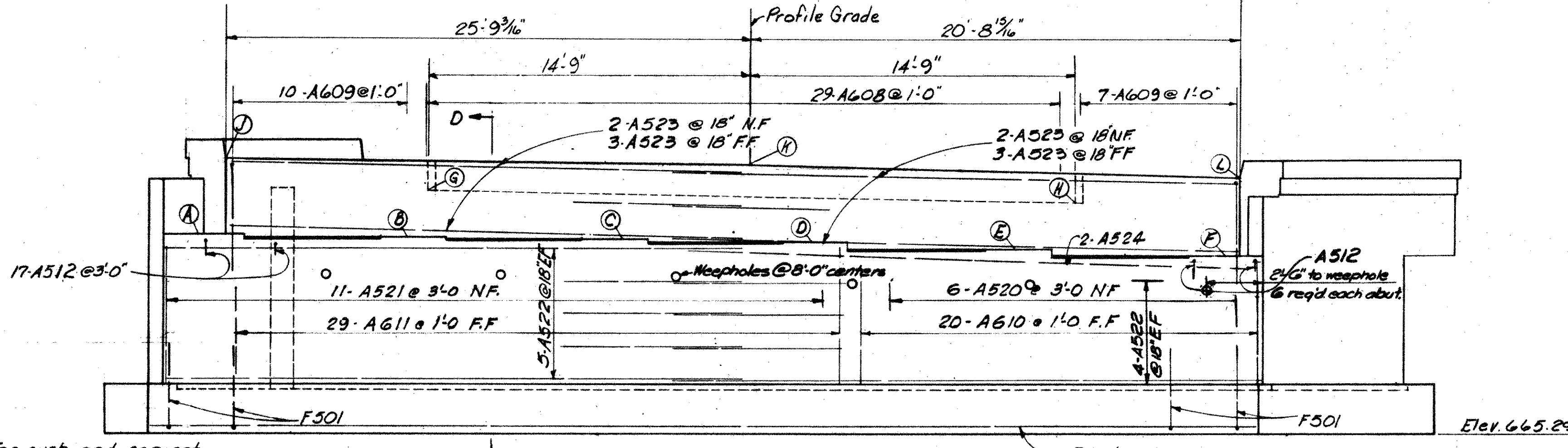
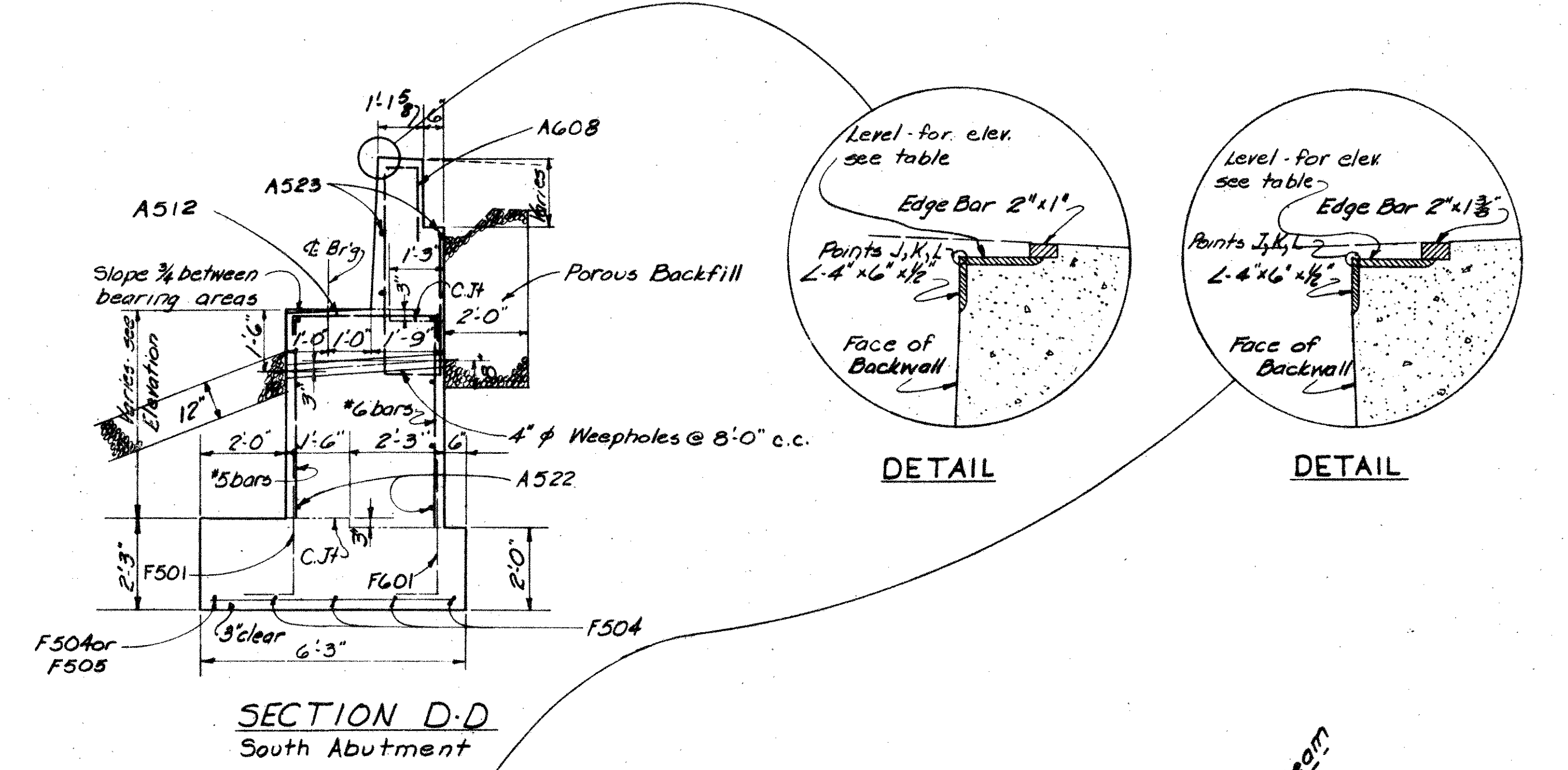
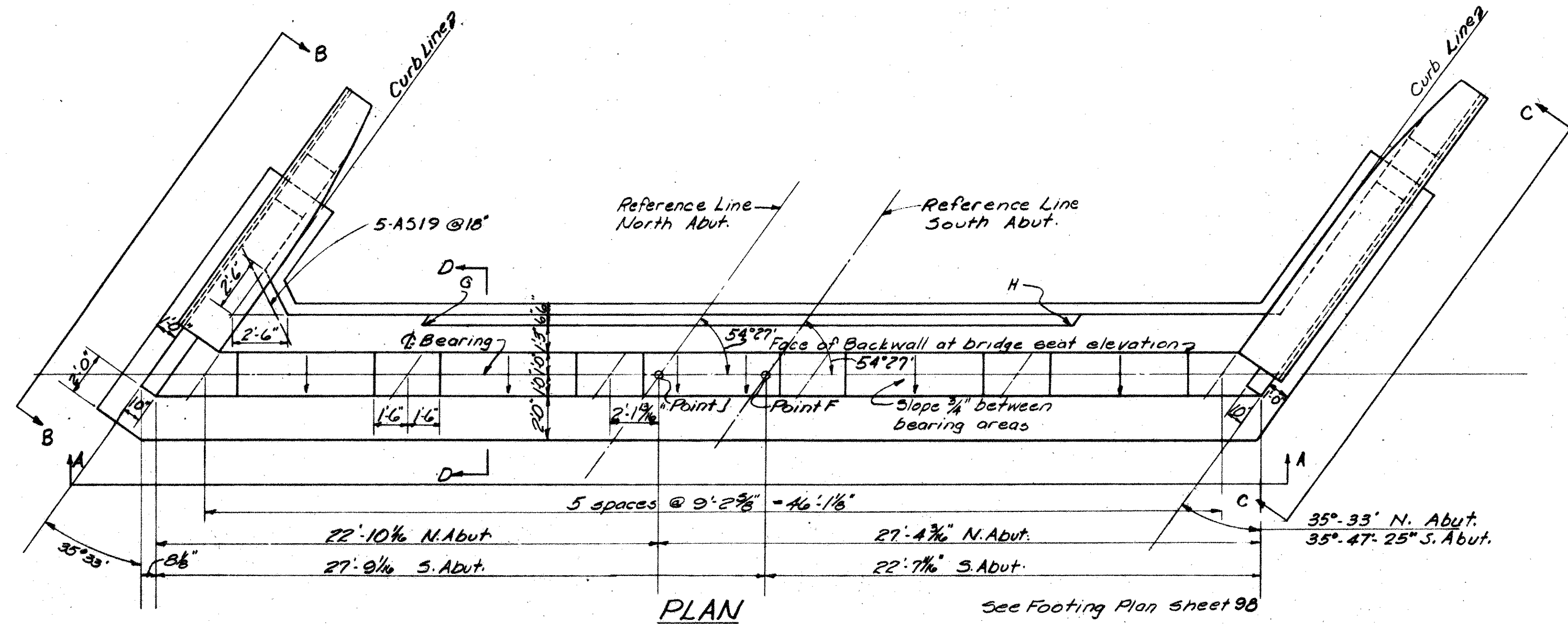


TABLE OF ELEVATIONS

	A	B	C	D	E	F	G	H	J	K	L
North Abutment	680.49	680.82	681.16	681.31	681.40	681.50	683.30	683.99	684.25	685.00	685.27
South Abutment	674.25	674.15	674.05	673.90	673.57	673.24	676.51	675.83	677.91	677.64	677.00

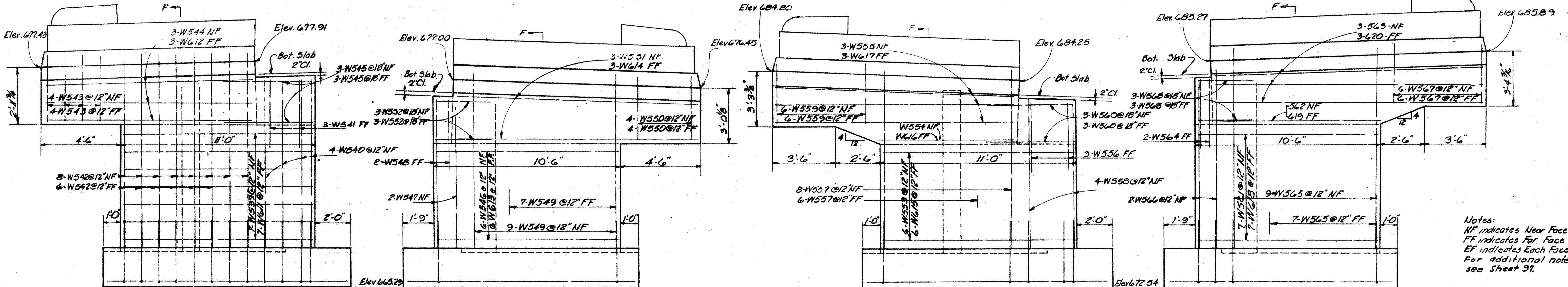
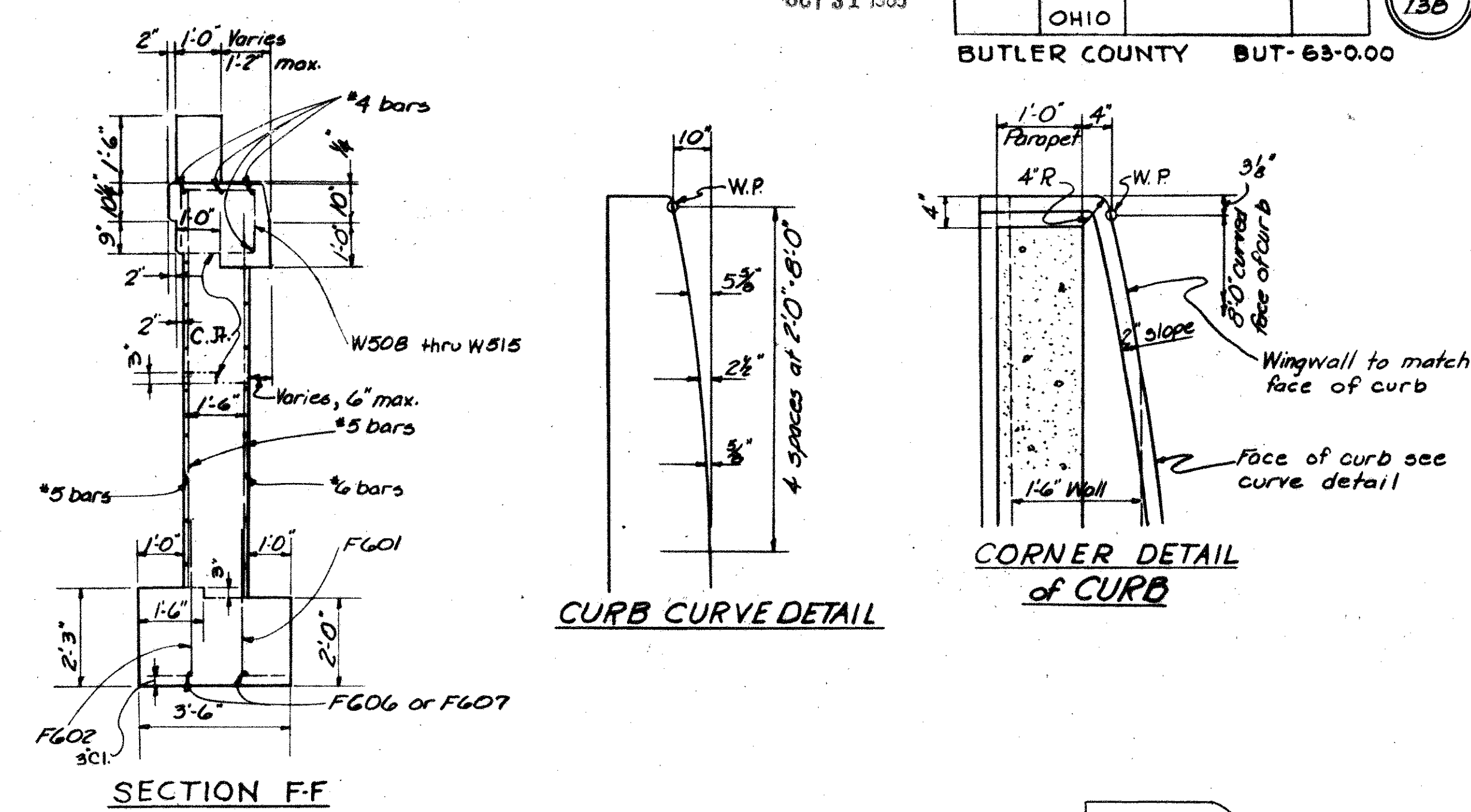
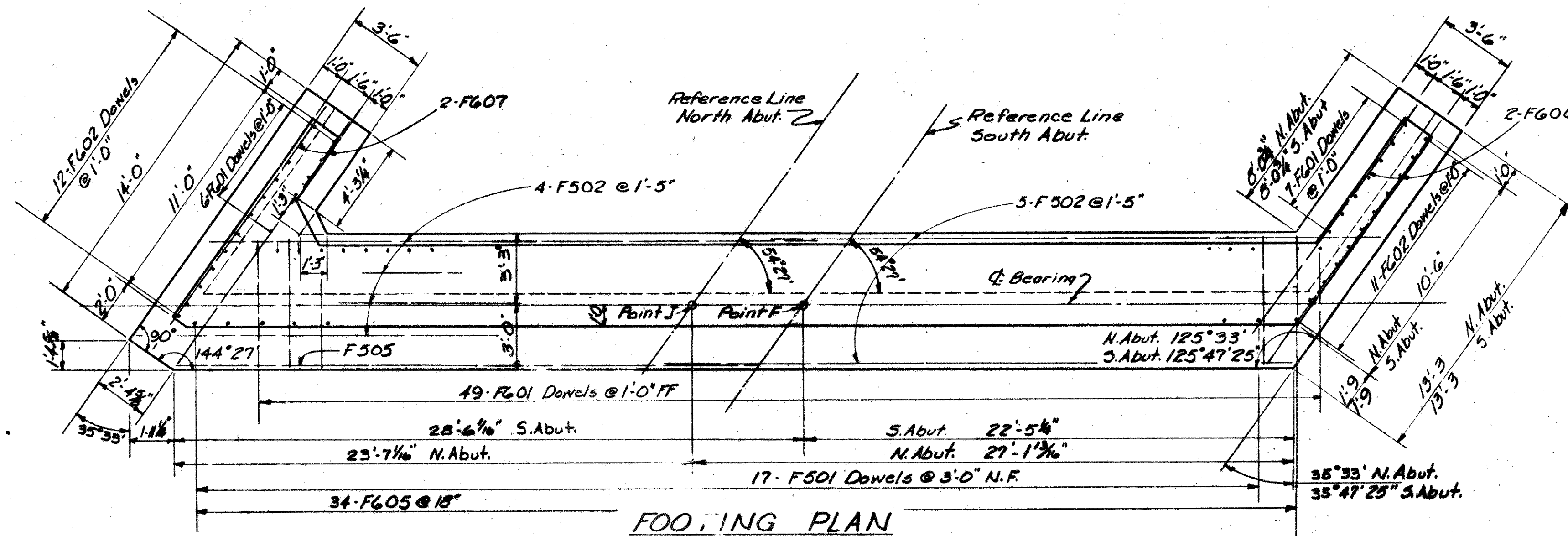
Note:
 All reinforcing steel to have 2" min cover unless otherwise noted.
 For Bridge Roadway Crown see Sheet 104
 For End Finish Details see Sheet 102
 For Bridge Railing Details see Std Dwg BR-1-65
 For Elevations B-B & C-C see Sheet 98
 N.F. indicates Near Face
 F.F. indicates Far Face
 E.F. indicates Each Face

SHAW, LENZ & ASSOCIATES
 ENGINEERS
 CINCINNATI OHIO

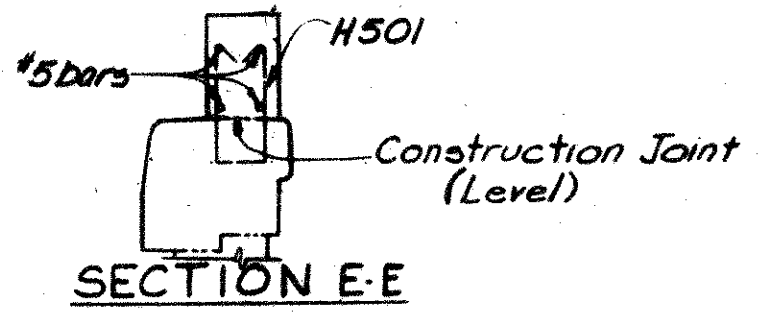
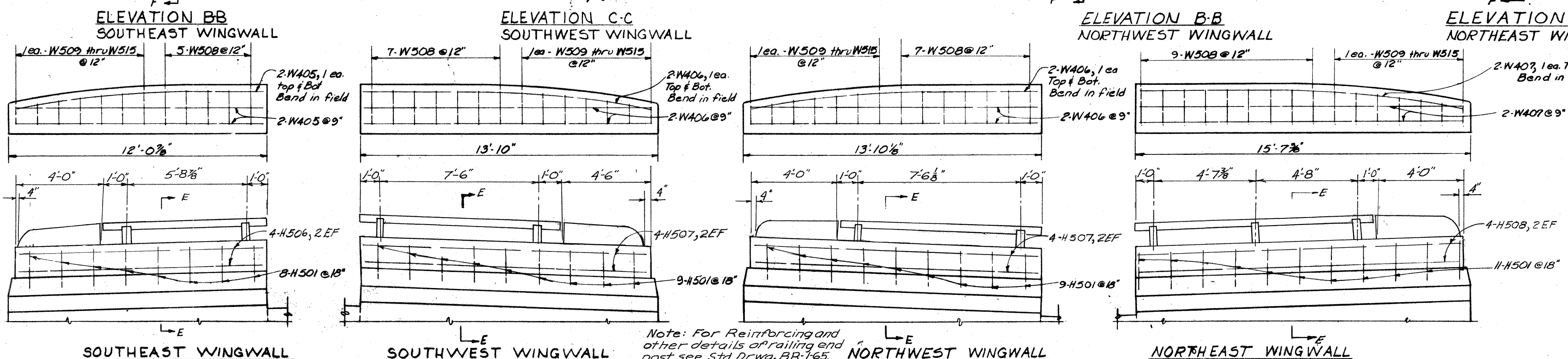
**NORTHBOUND BRIDGE
 ABUTMENT DETAILS**
 BRIDGE NO. BUT-63-0043
 S.R. 63 RELOCATED
 UNDER S.R. 4

BUTLER COUNTY Sta. 21+01.27 #21+85.30

DESIGNED ERB	DRAWN DD5	TRACED DD5	CHECKED E.R.B. R.J.L.	REVIEWED R.J.L.	DATE 7-25-62
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Notes:
NF indicates Near Face
FF indicates Far Face
EF indicates Each Face
For additional notes see Sheet 31.

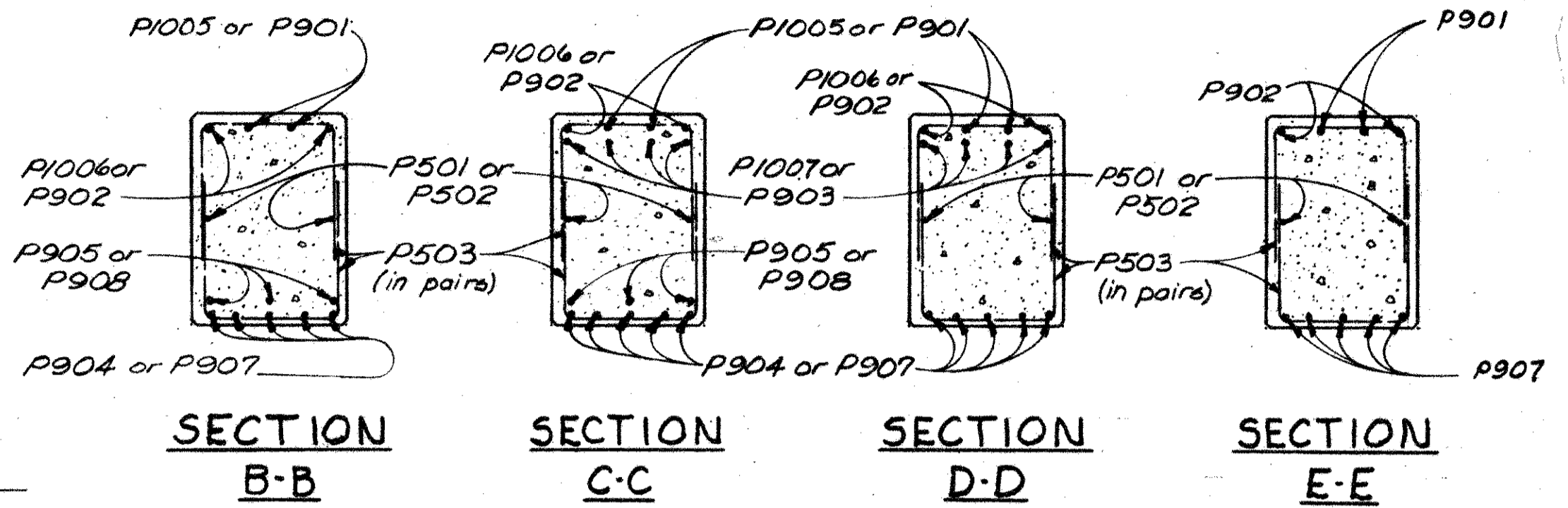
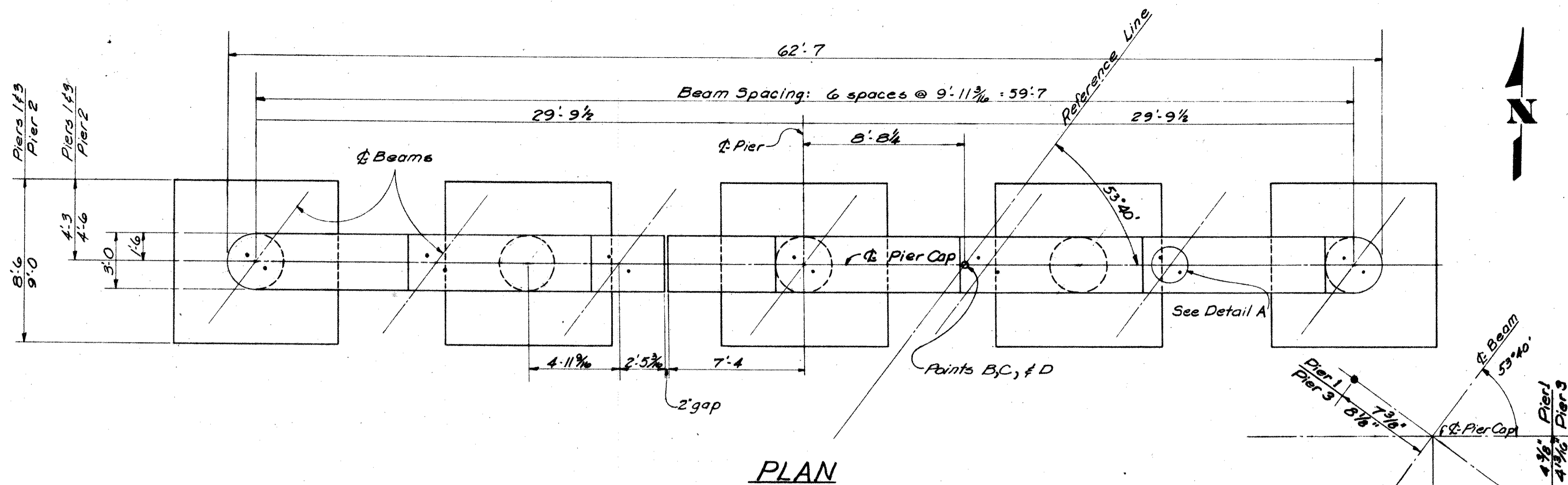


Note: For Reinforcing and other details of railing end post see Std. Drwg. BR-165.

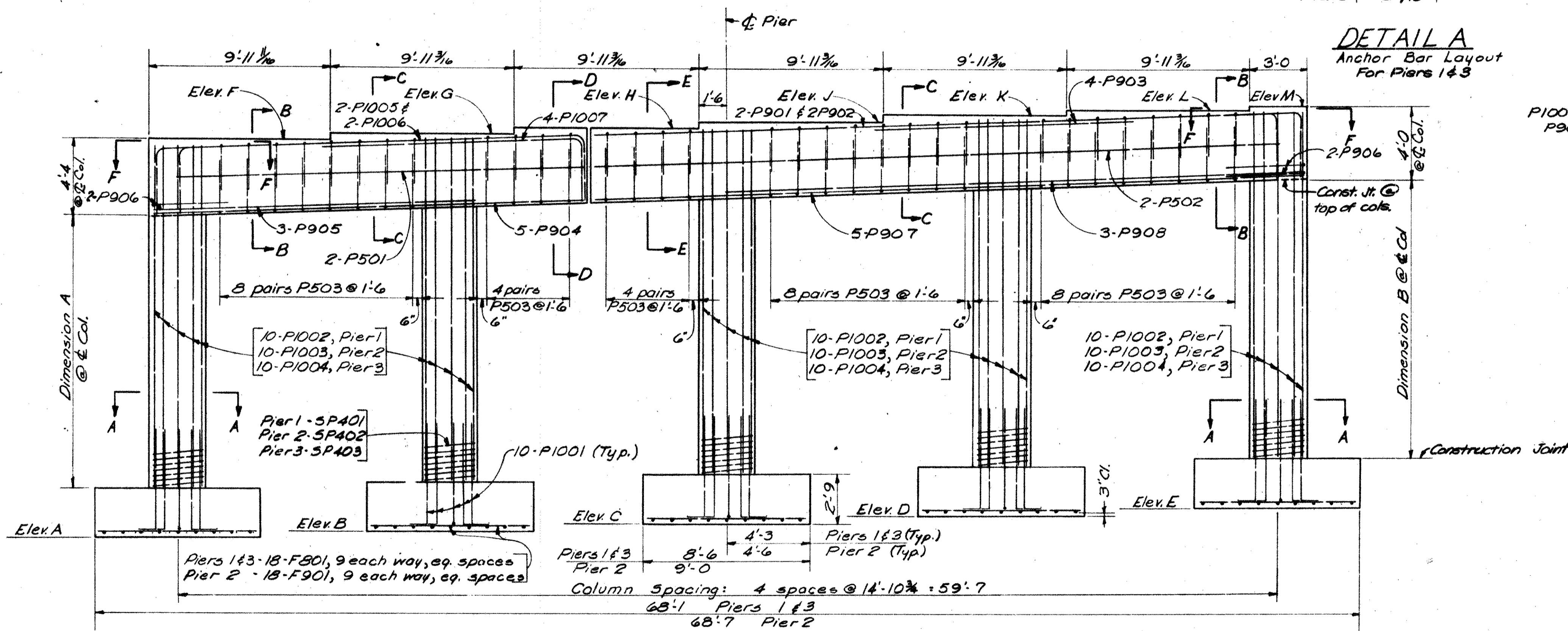
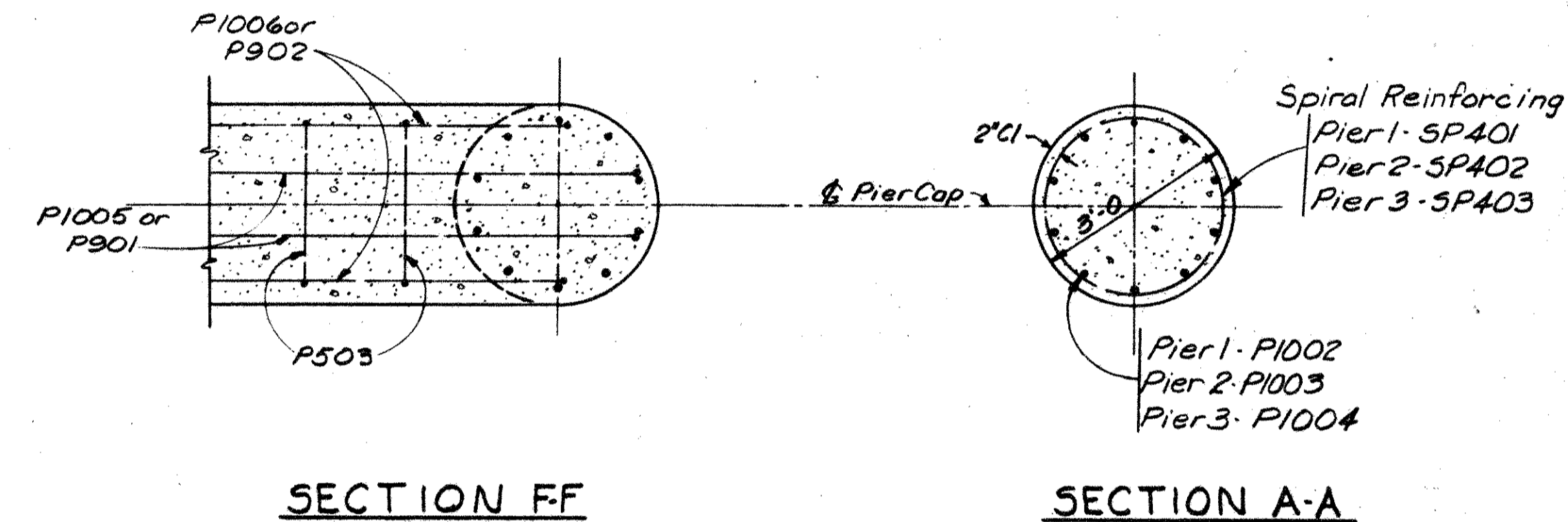
SHAW, LENZ & ASSOCIATES ENGINEERS
CINCINNATI OHIO

NORTHBOUND BRIDGE ABUTMENT DETAILS
BRIDGE NO. BUT-63-0043
S. R. 63 RELOCATED UNDER S.R. 4
BUTLER COUNTY Sta. 21+01.27 to 21+55.90

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISION
ERB	DDS	DDS	ERB	R.J.L.	7-25-62	



DETAIL A
Anchor Bar Layout
For Piers 1 & 3



ELEVATION (LOOKING NORTH)

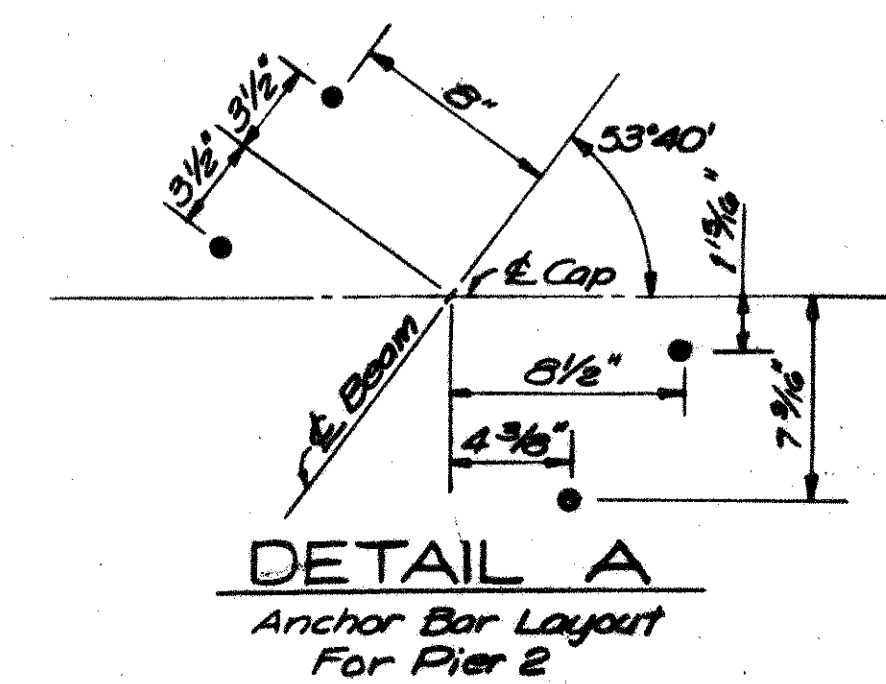
Notes:

For Reference Line and Points B, C, & D see sheet 2.

All reinforcing steel shall have 2" minimum cover unless otherwise noted.

Special care shall be taken in placing reinforcing steel in the pier caps so as to avoid interfering with the anchor bars.

	ELEVATION											DIMENSION		
	A	B	C	D	E	F	G	H	J	K	L	M	A	B
Pier 1	648.31	645.86	649.33	649.85	650.39	668.70	669.10	669.49	669.89	670.24	670.39	670.54	13'-3 1/8"	13'-4 1/8"
Pier 2	651.27	651.80	652.35	652.94	653.54	670.76	671.16	671.55	671.95	672.31	672.45	672.60	12'-4 1/8"	12'-3 3/8"
Pier 3	651.14	651.73	652.33	652.92	653.48	673.38	673.78	674.17	674.57	674.93	675.07	675.22	15'-1 7/8"	14'-11 7/8"



DETAIL A
Anchor Bar Layout
For Pier 2

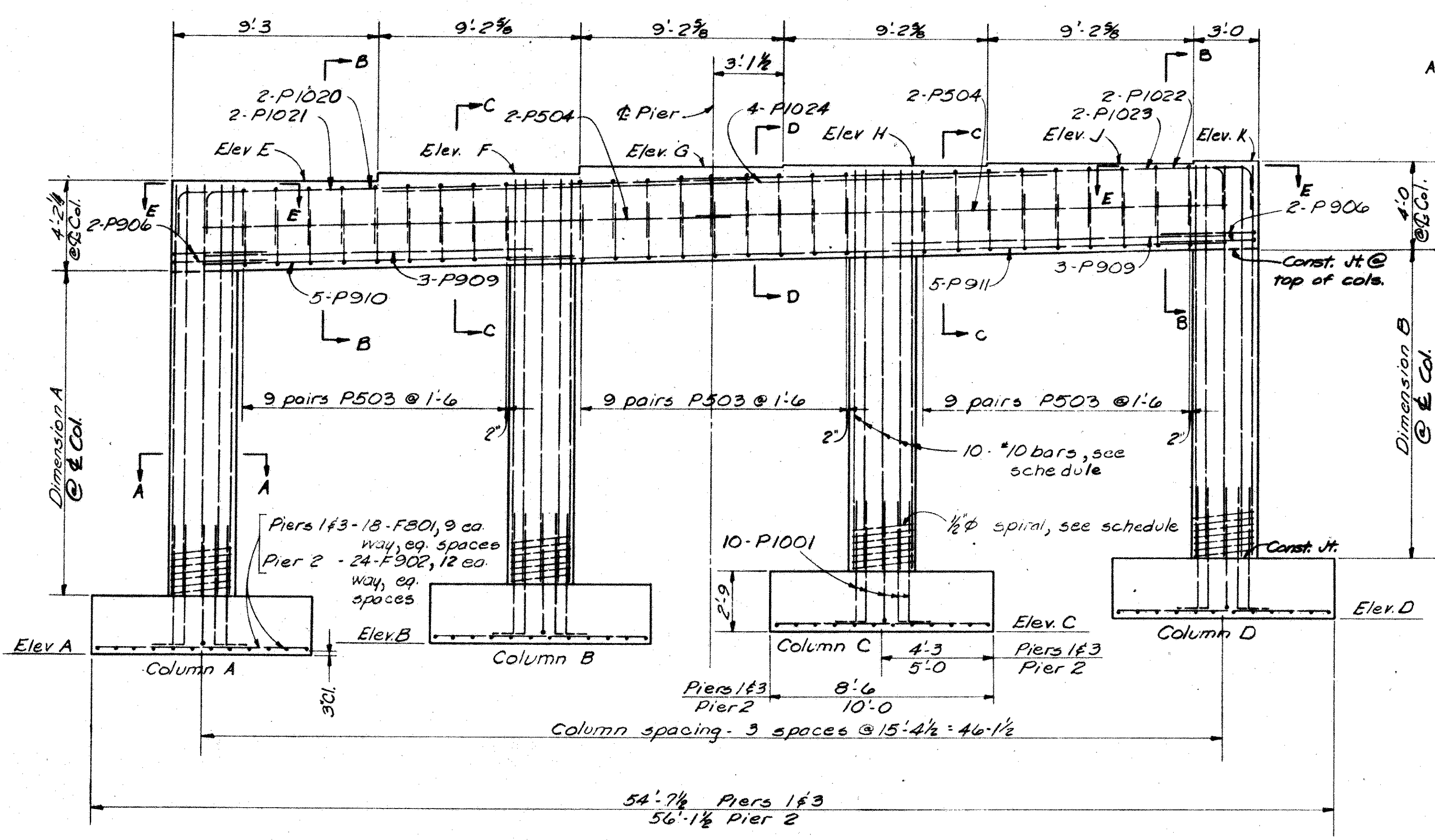
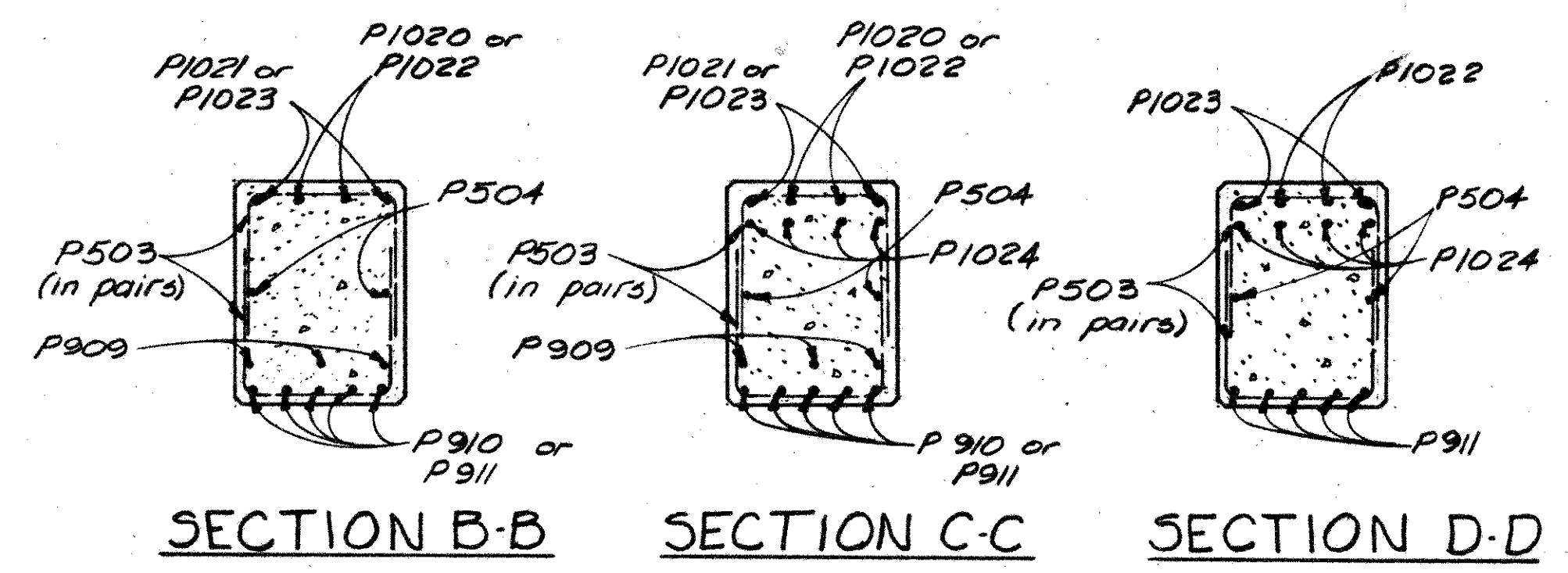
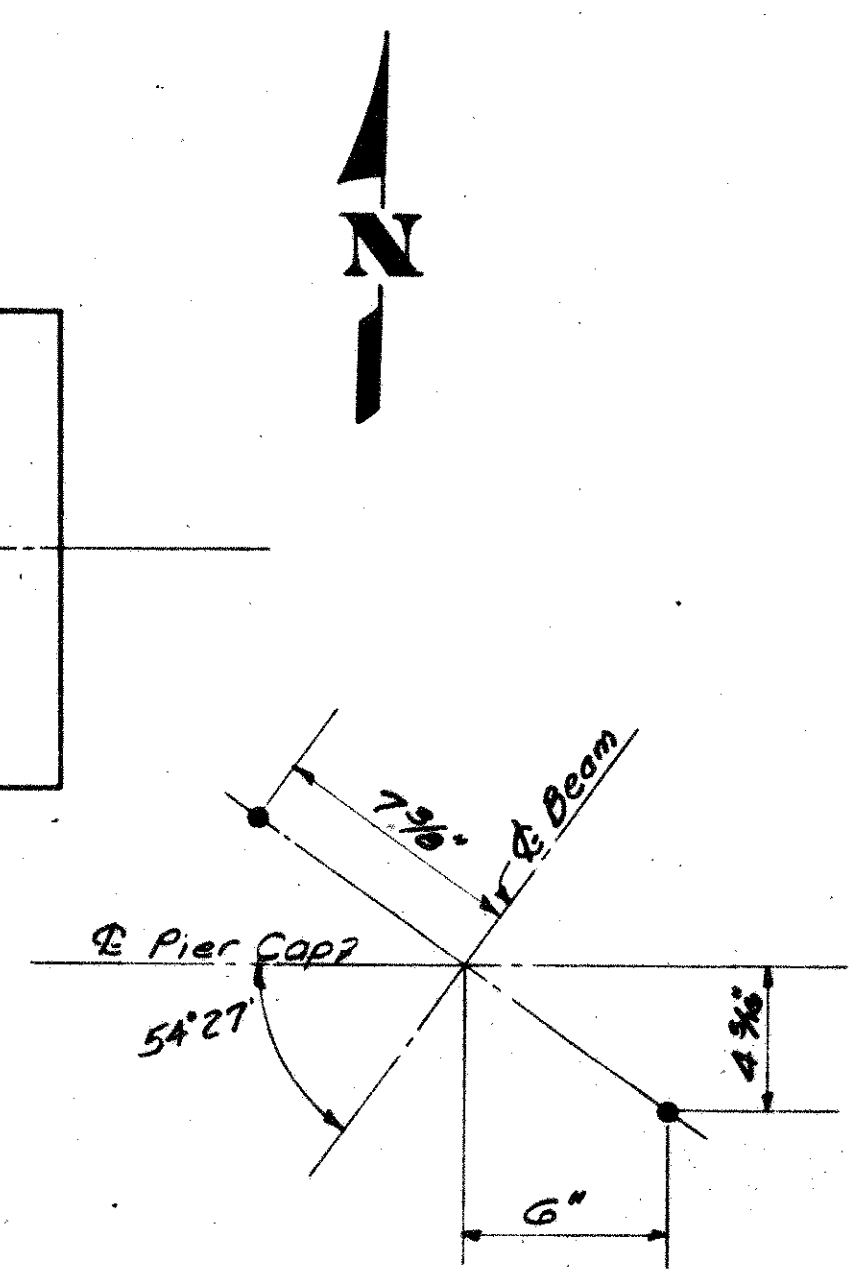
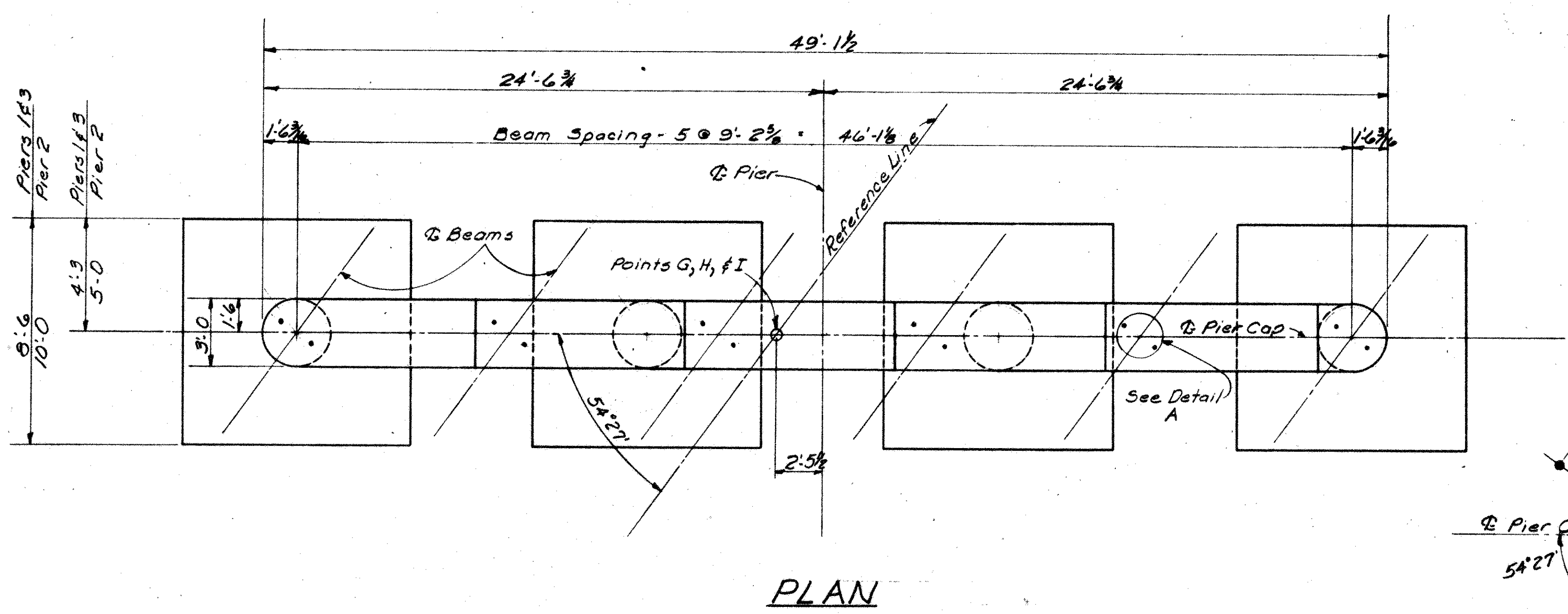
SHAW, LENZ & ASSOCIATES
ENGINEERS

CINCINNATI OHIO

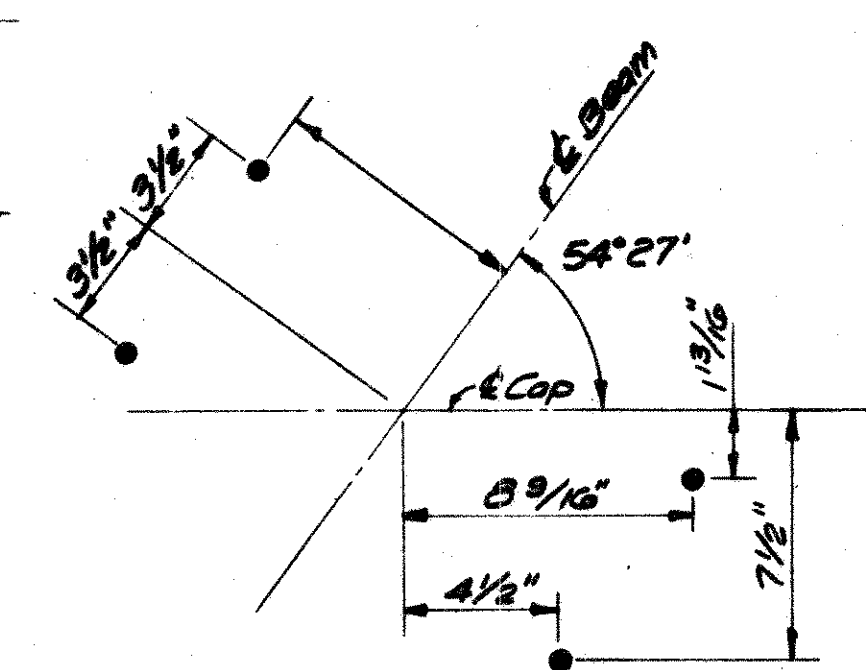
PIERS SOUTHBOUND BRIDGE
BRIDGE NO. BUT-63-0041
S.R. 63 RELOCATED
UNDER S.R. 4

BUTLER CO. STA. 21+01.27
STA. 21+85.90

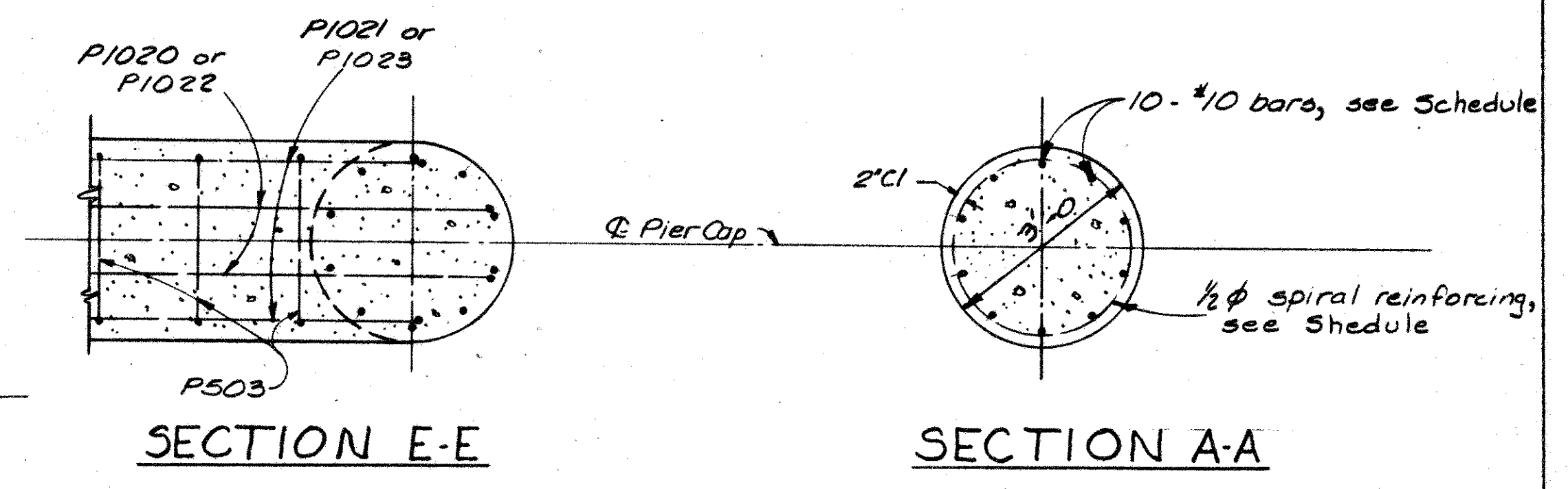
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.R.B.	D.D.S.	D.D.S.	R.J.L.	R.J.L.	7-25-82	



DETAIL A
Anchor Bar Layout
For Piers 1&3



DETAIL A
Anchor Bar Layout
For Pier 2

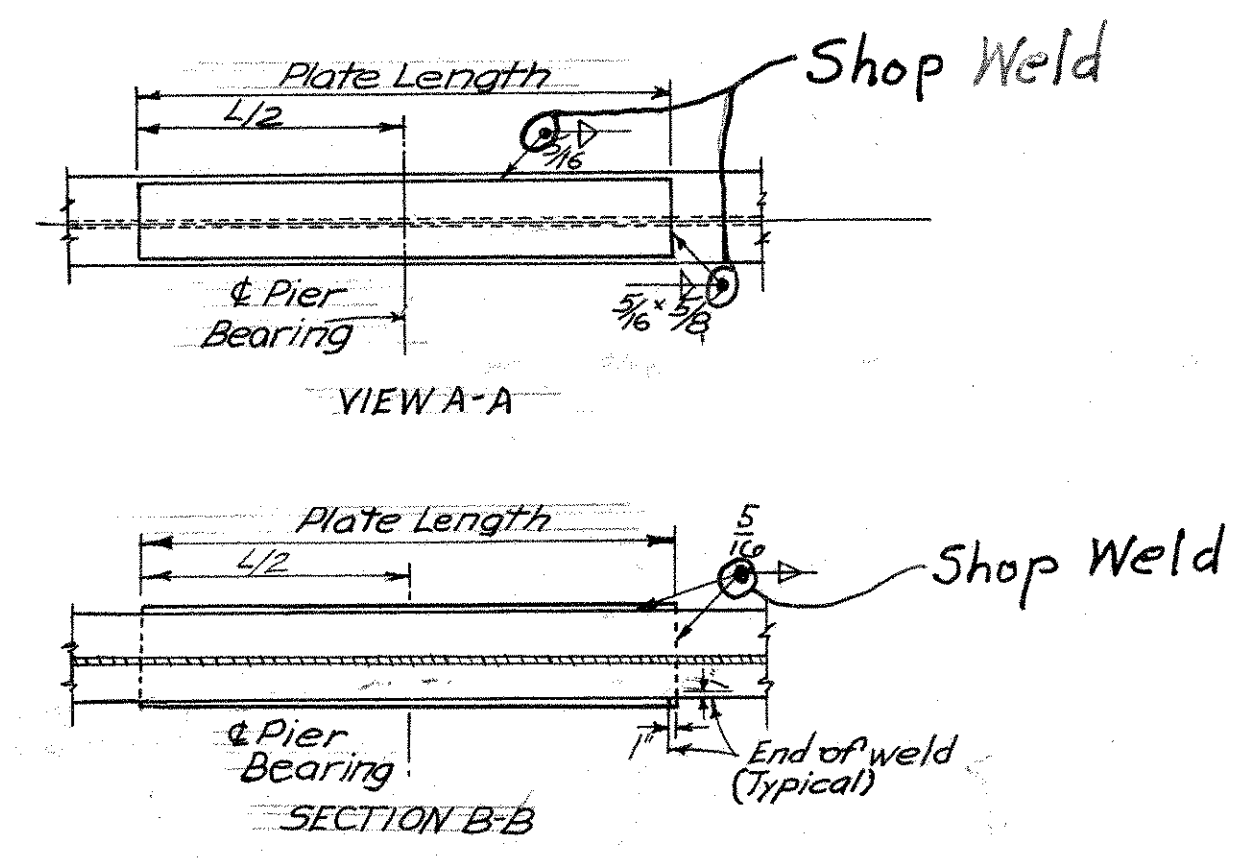
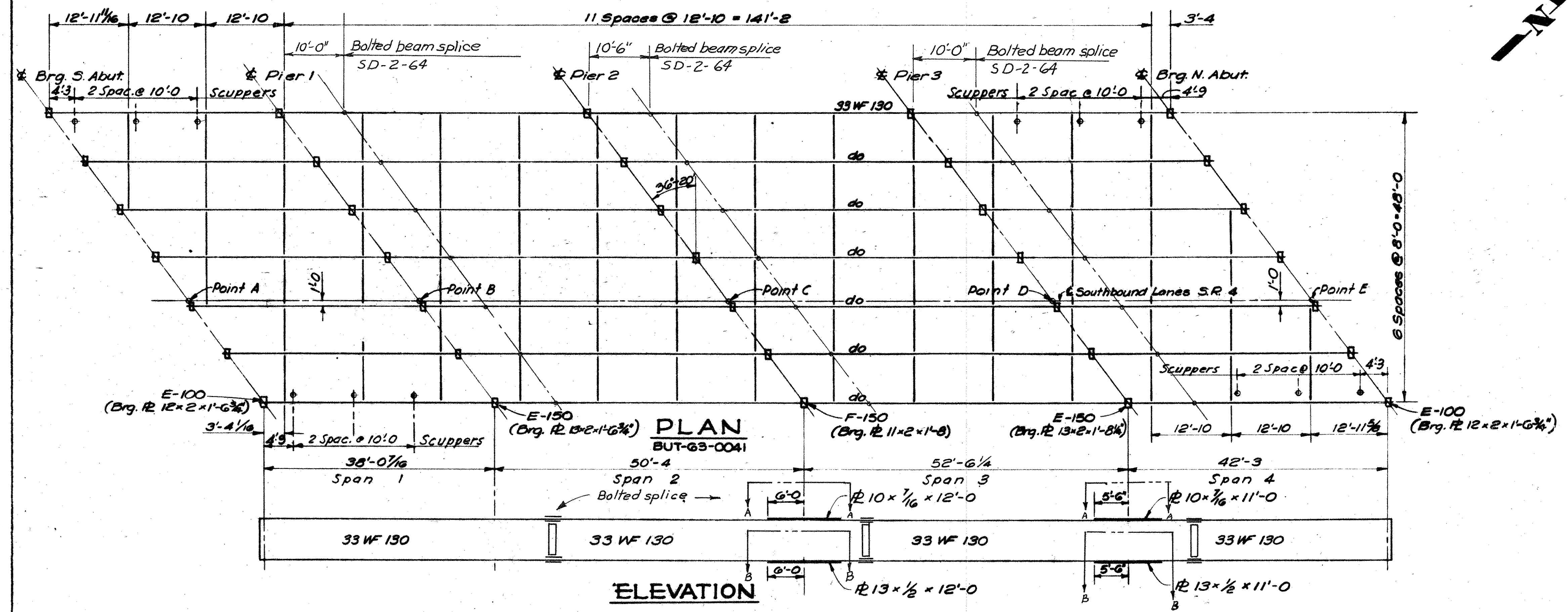


Notes:
 All reinforcing steel shall have 2" minimum cover unless otherwise noted.
 For Points G, H, & I see Sheet 2
 Special care shall be taken in placing the reinforcing steel in the pier caps so as to avoid interfering with the anchor bars.

	Column A		Column B		Column C		Column D	
	Vertical Reinforcing	Spiral Reinforcing	Vertical Reinforcing	Spiral Reinforcing	Vertical Reinforcing	Spiral Reinforcing	Vertical Reinforcing	Spiral Reinforcing
Pier 1	10-P1008	1-SP404	10-P1009	1-SP405	10-P1010	1-SP406	10-P1011	1-SP407
Pier 2	10-P1012	1-SP408	10-P1013	1-SP409	10-P1014	1-SP410	10-P1015	1-SP411
Pier 3	10-P1016	1-SP412	10-P1017	1-SP413	10-P1018	1-SP414	10-P1019	1-SP415

	ELEVATION										DIMENSION	
	A	B	C	D	E	F	G	H	J	K	A	B
Pier 1	652.14	652.75	653.37	653.98	674.75	675.08	675.41	675.56	675.66	675.76	15'-8 1/8"	15'-0 1/8"
Pier 2	655.25	655.87	656.48	657.10	676.49	676.82	677.15	677.30	677.40	677.50	14'-3 3/8"	13'-7 3/8"
Pier 3	655.19	656.81	656.42	657.04	678.82	679.15	679.48	679.63	679.73	679.83	16'-8 3/8"	16'-0 1/2"

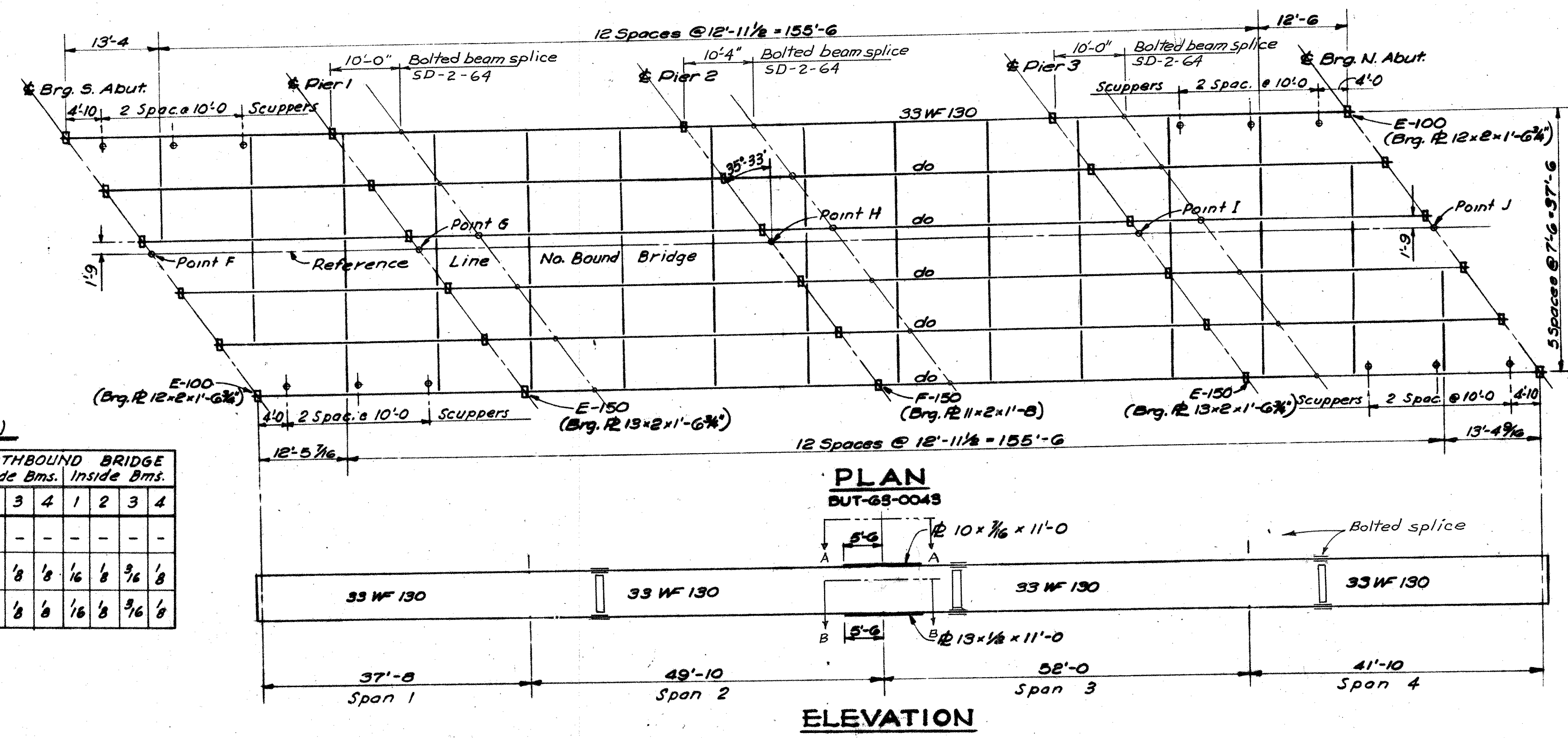
SHAW, LENZ & ASSOCIATES ENGINEERS
 CINCINNATI OHIO
PIERS NORTHBOUND BRIDGE
 BRIDGE NO. BUT-63-0043
 SR 63 RELOCATED
 UNDER SR. 4
 BUTLER CO. STA. 21+01.27
 STA. 21+85.90
 DESIGNED: E.R.B. DRAWN: D.D.S. TRACED: D.D.S. CHECKED: E.R.B. REVISED: R.J.L. 7-25-62



Notes:
 For Bolted Beam Splice Details see Std. Dwg. SD-2-64
 For Fixed and Sliding Bearing plate details, see Std. Dwg. FSB-1-62.
 For End Crossframe Details See Sh. 102.
 For details of Intermediate Crossframes See Sheets 103 and 104.
 All piers and abutments are parallel
 For Bulb Angle Gutter and Scupper Details see Std. Dwg. SD-1-63.

DEFLECTION TABLE (Inches)

Span	SOUTHBOUND BRIDGE				NORTHBOUND BRIDGE							
	Outside Bms.	Inside Bms.	Outside Bms.	Inside Bms.	Outside Bms.	Inside Bms.	Outside Bms.	Inside Bms.				
Deflection due to Weight of steel	-	-	-	-	-	-	-	-	-	-	-	-
Deflection due to remaining dead load	1/16	1/8	3/16	1/8	1/16	1/8	3/16	1/8	1/16	1/8	3/16	1/8
Total Deflection	1/16	1/8	3/16	1/8	1/16	1/8	3/16	1/8	1/16	1/8	3/16	1/8



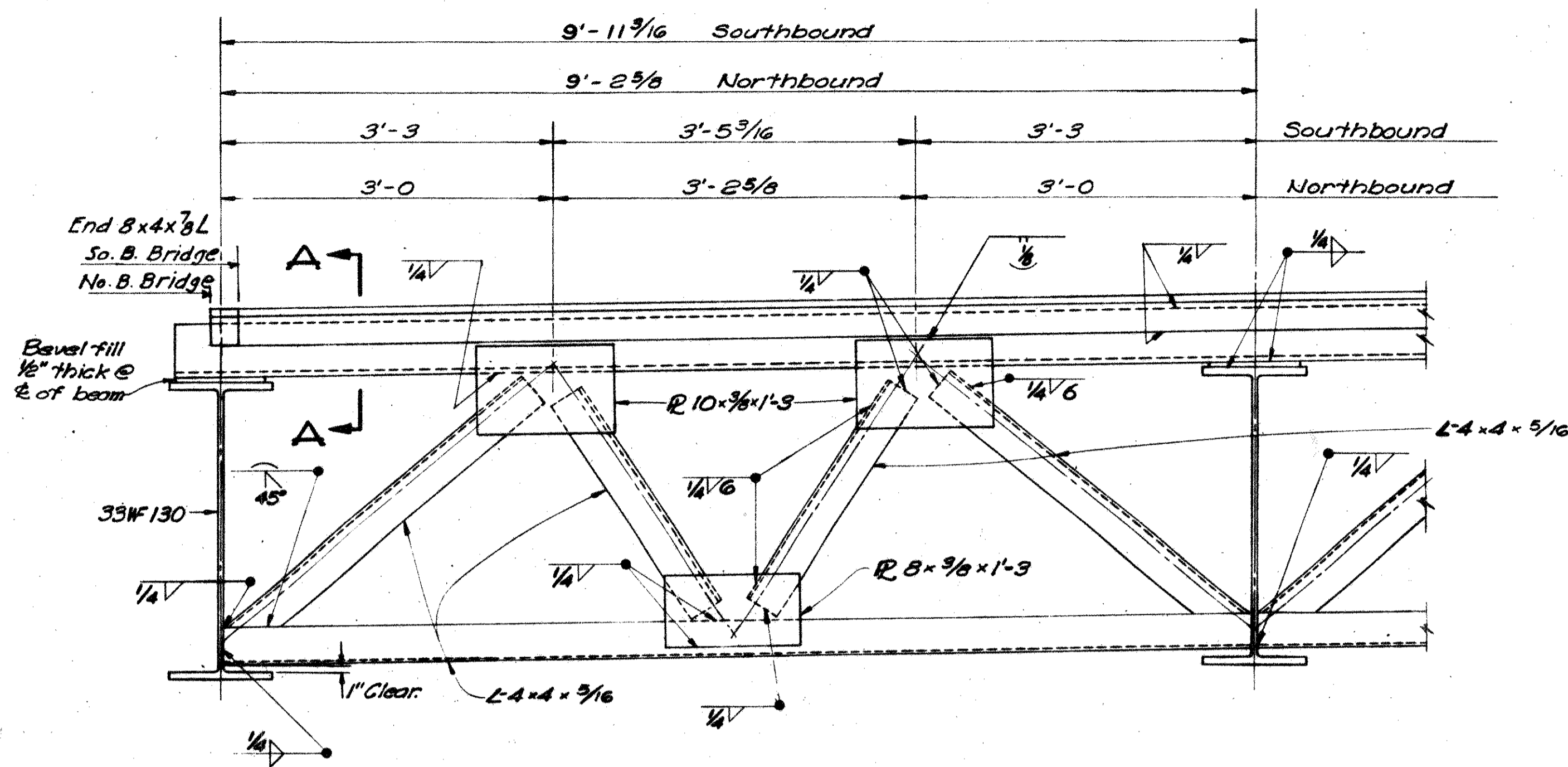
SHAW, LENZ & ASSOCIATES ENGINEERS
 CINCINNATI OHIO
STEEL FRAMING PLAN
 BRIDGE NO. BUT-63-0041 & 0043
 S.R. 63 RELOCATED UNDER S.R. 4
 BUTLER CO. STA. 21+01.27
 STA. 21+85.90
 DESIGNED DRAWN TRACED CHECKED REVIEWED DATE REVISED
 E.R.B. R.R.L. R.R.L. E.R.B. R.J.L. 7-25-62 8/25/66

MICROFILMED
OCT 31 1985

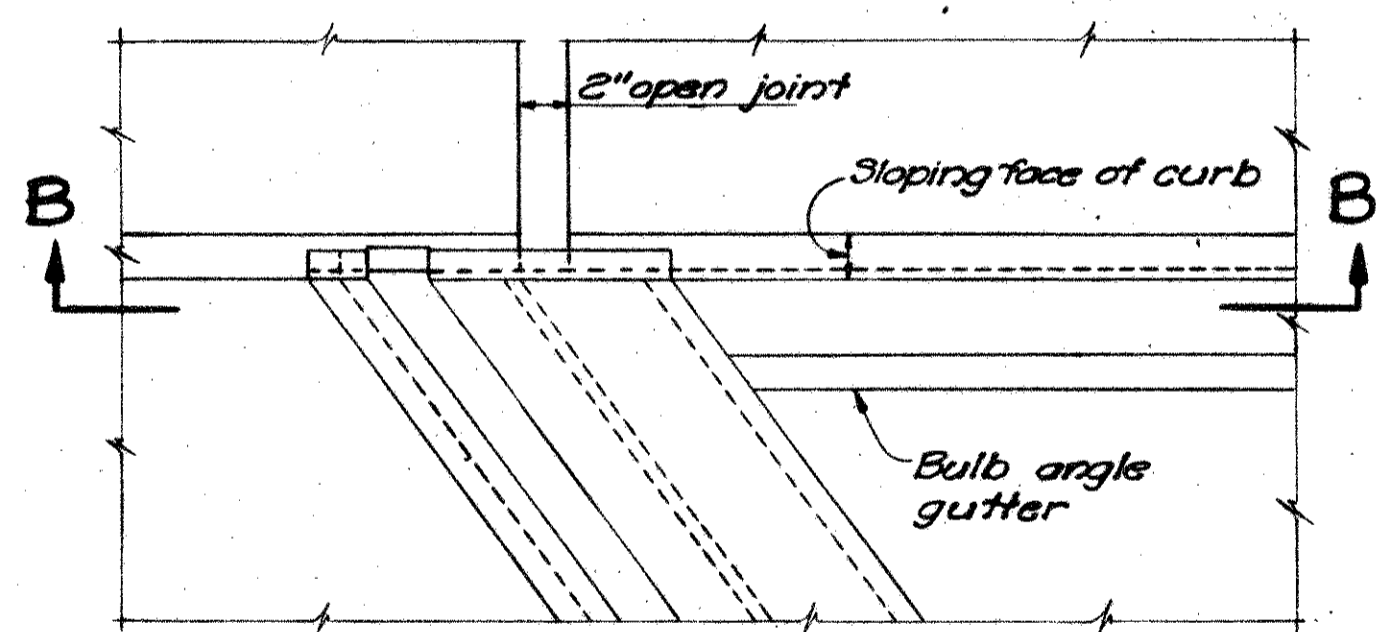
FED. RD. DIVISION	STATE	PROJECT
OHIO		

102
130

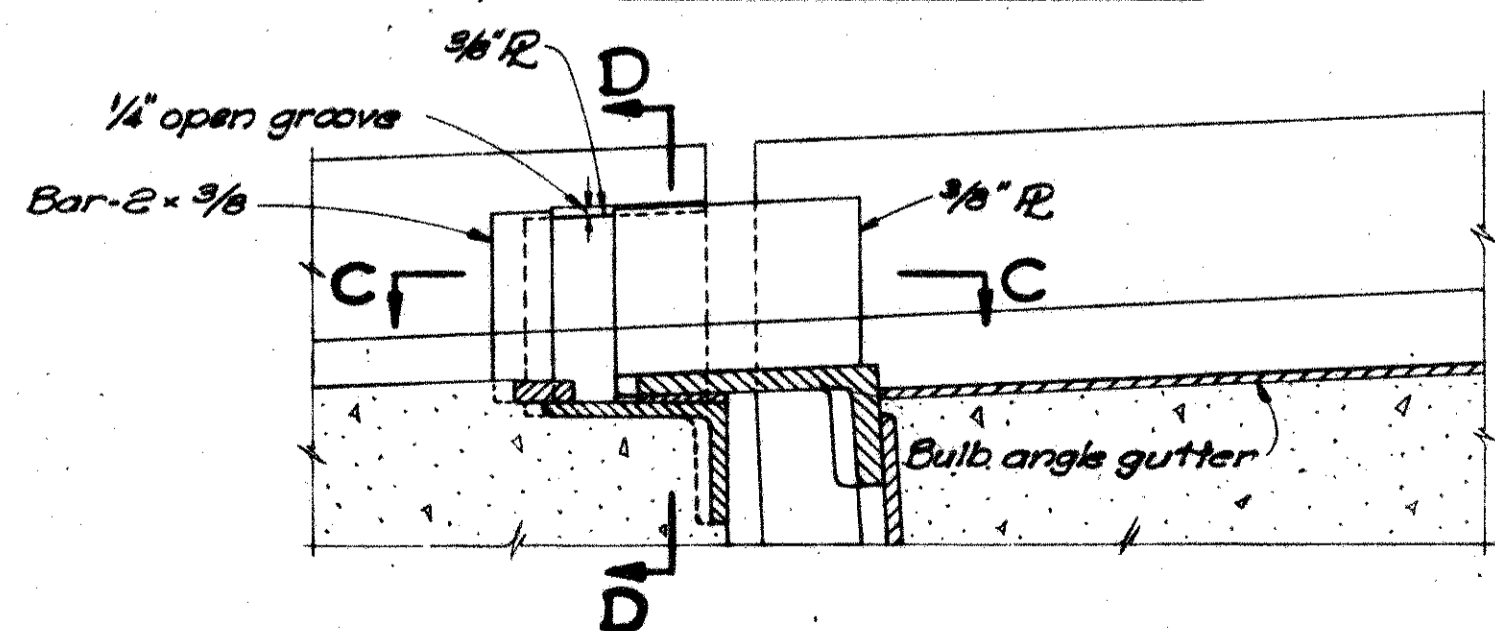
BUTLER COUNTY BUT. 63-0.00



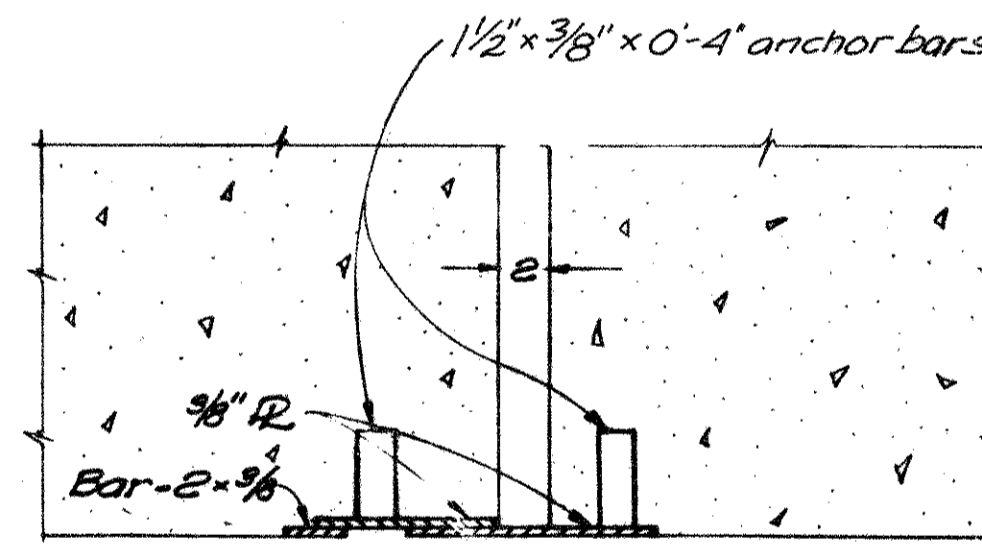
END CROSSFRAME ELEVATION



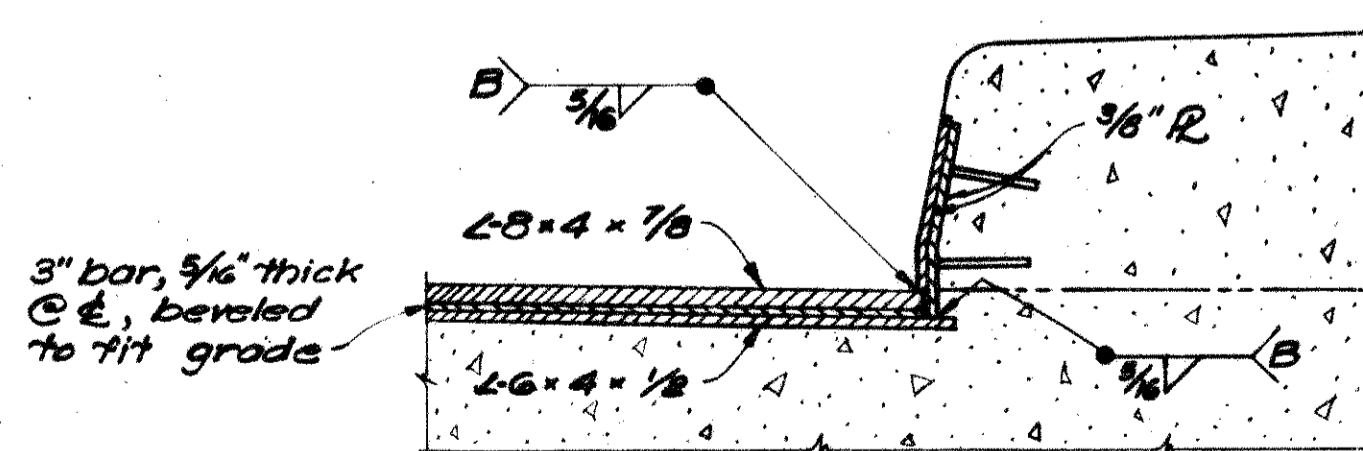
PART PLAN



SECTION B-B

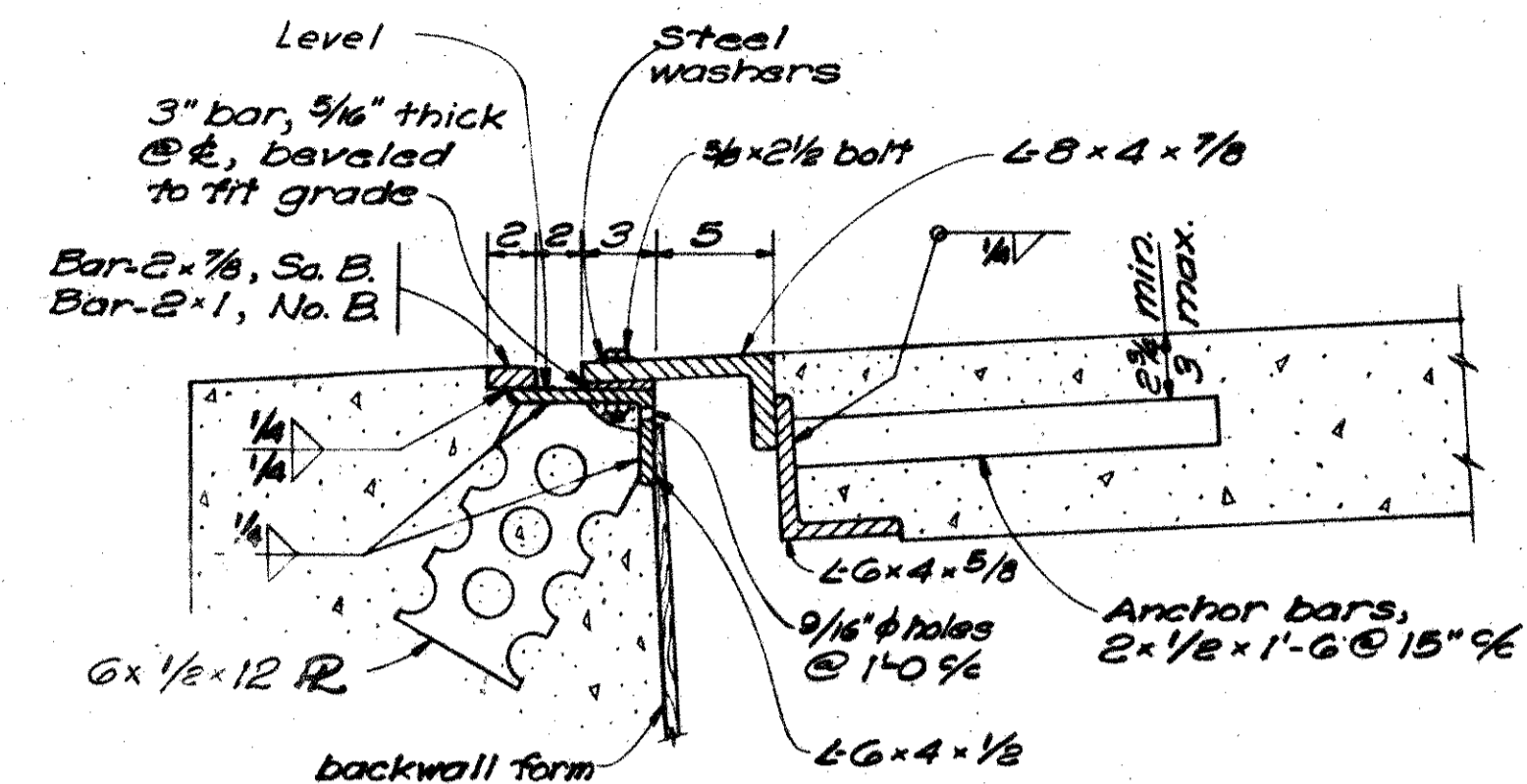


SECTION C-C

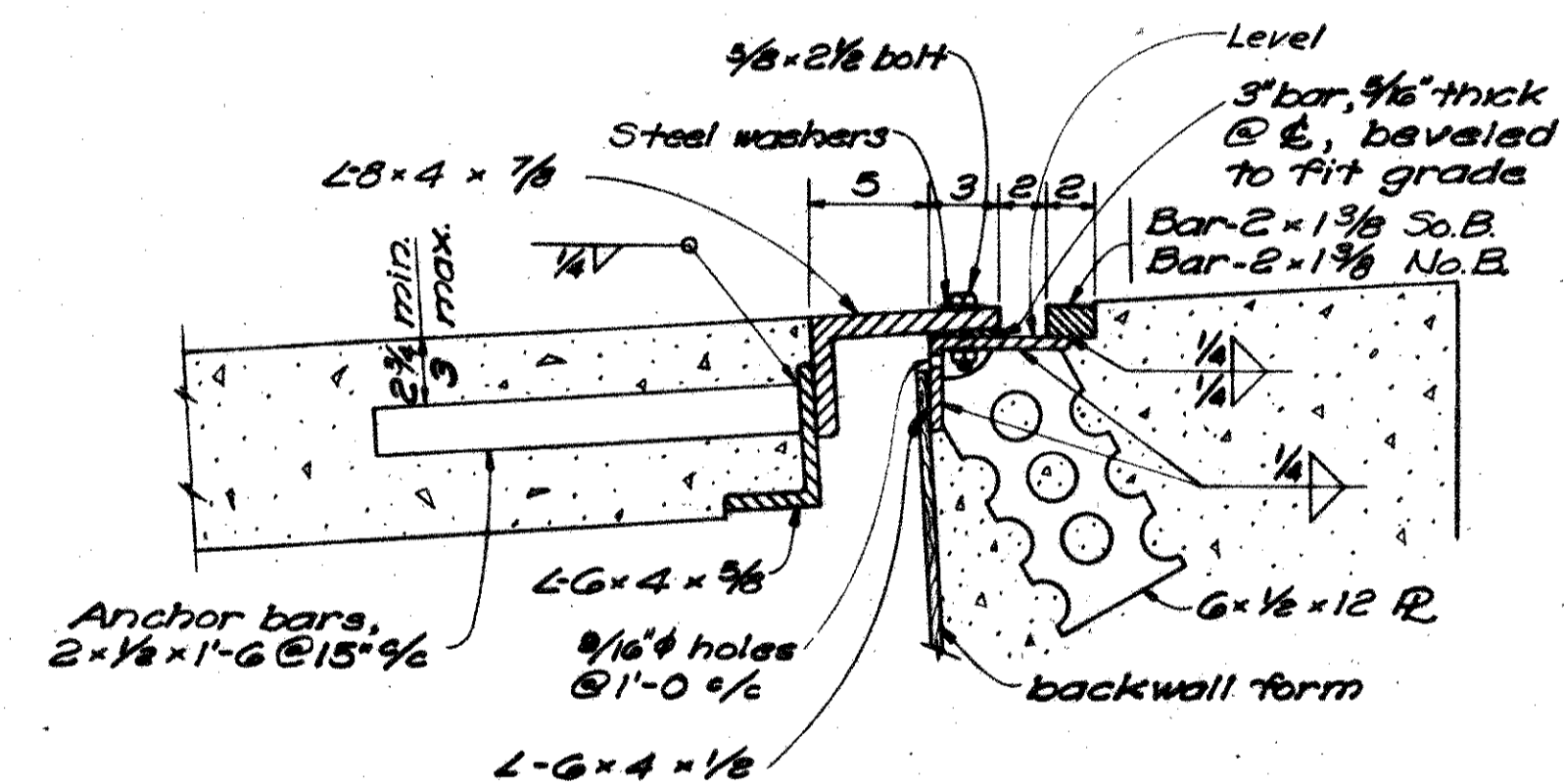


SECTION D-D

CURB PLATE DETAILS



SECTION A-A
ROADWAY END DAM
SOUTH ABUTMENTS

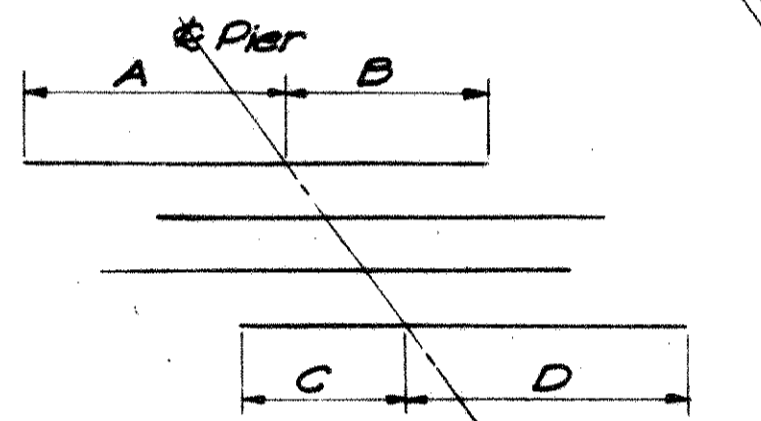
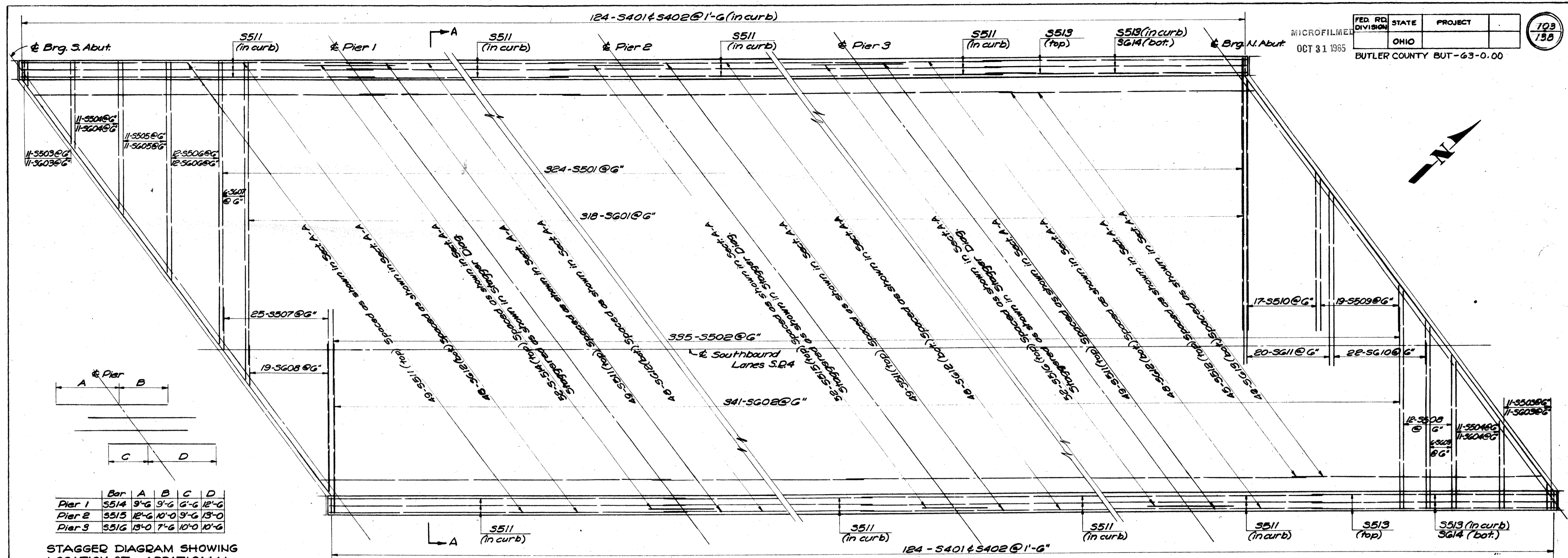


SECTION A-A
ROADWAY END DAM
NORTH ABUTMENTS

NOTES:
See Std. Dwg. SD-1-63 Sheets 2, 3 and 4
for additional notes and
details.

Bulb angle gutter, and gutter supports
included in Item 513 for payment

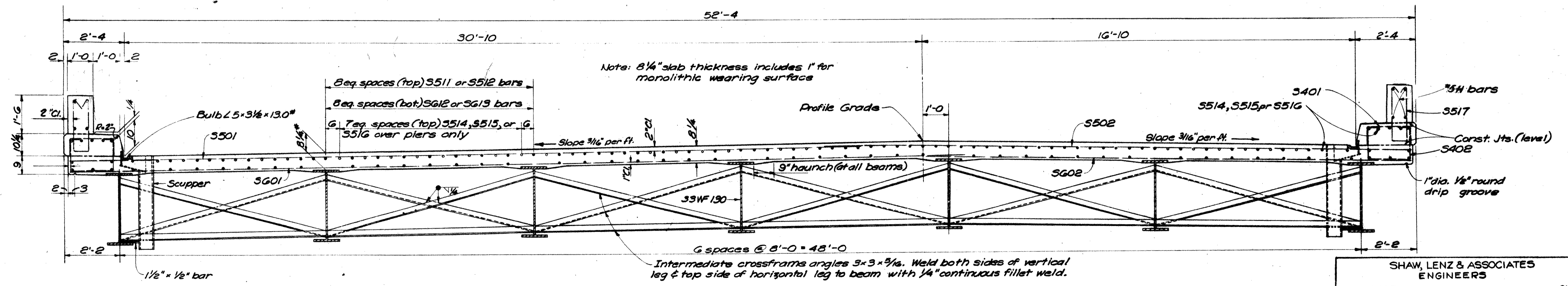
SHAW, LENZ & ASSOCIATES ENGINEERS				
CINCINNATI	OHIO			
STRUCTURAL STEEL DETAILS				
BRIDGE NO. BUT-63-0041&0043				
S.R. 63 RELOCATED				
UNDER S.R. 4				
BUTLER CO.	STA. 21+01.27			
	STA. 21+85.90			
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE
E.R.B.	R.L.	R.R.L.	ERB	R.J.L. 7-25-62



	Bar	A	B	C	D
Pier 1	S514	9'-6"	9'-6"	6'-6"	12'-6"
Pier 2	S515	12'-6"	10'-0"	9'-6"	13'-0"
Pier 3	S516	15'-0"	7'-6"	10'-0"	10'-6"

STAGGER DIAGRAM SHOWING LOCATION OF ADDITIONAL TOP BARS AT PIERS

PLAN



DECK SLAB HAUNCH: The haunch in the deck slab adjacent to the top of steel beams, which is shown as 9" wide, may vary from this dimension between the limits of 6" and 12" except that the maximum slope shall not exceed 3 inches per foot. Payment for deck slab concrete shall be based on the 9" width.

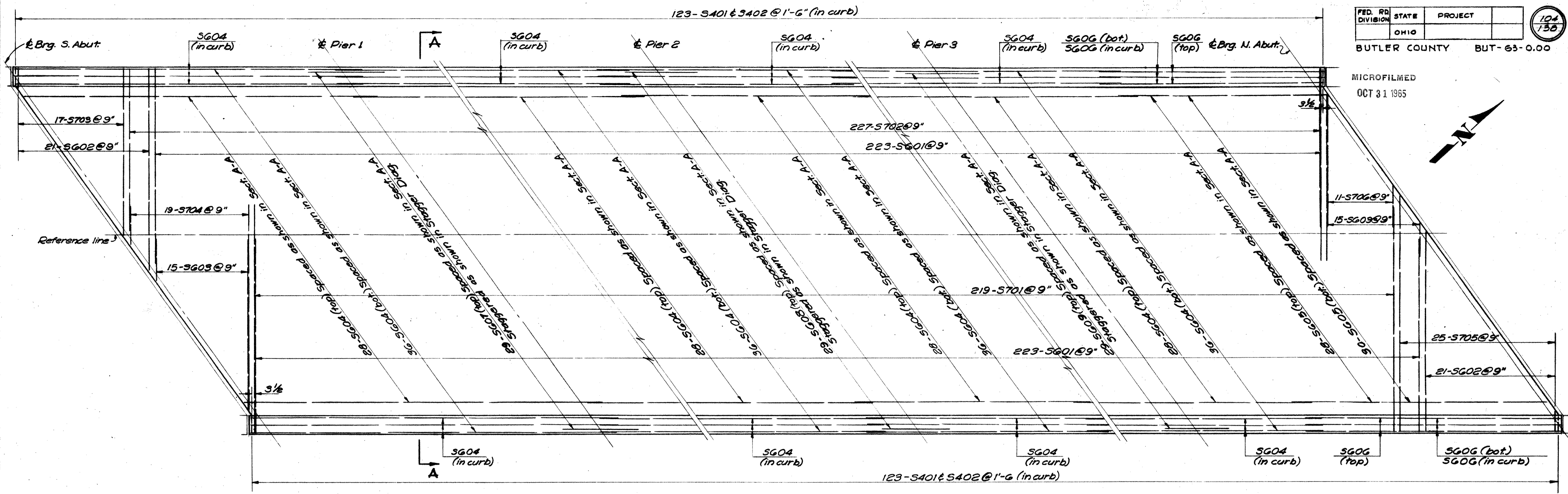
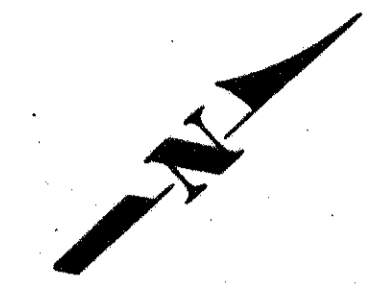
TRANSVERSE SECTION A-A

* This is the nominal dimension. The quantity of deck 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.

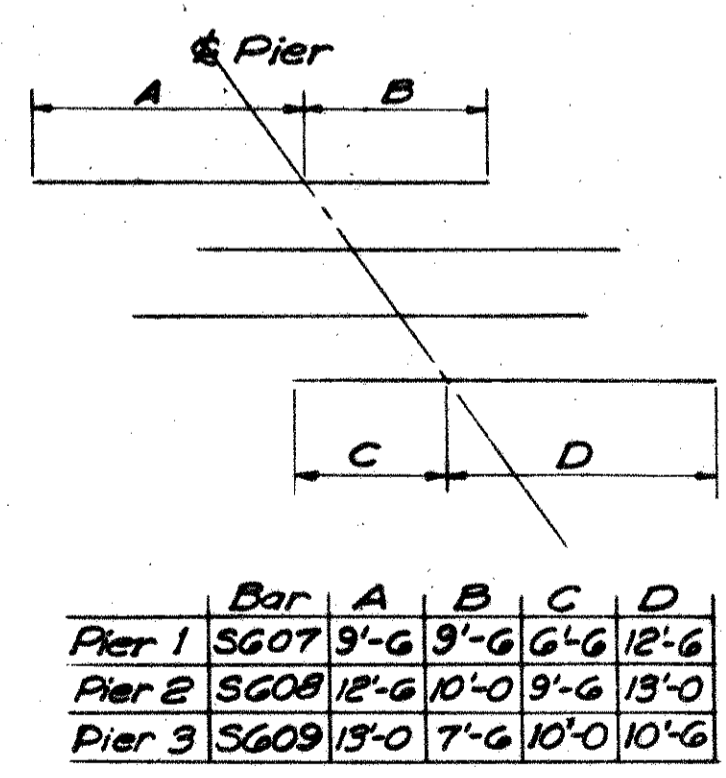
Notes:
 Lap rein. bars 30 diam
 For additional slab and railing details see sheet 105

SHAW, LENZ & ASSOCIATES ENGINEERS OHIO
 CINCINNATI
SLAB SOUTHBOUND BRIDGE
 BRIDGE NO. BUT-63-0041
 S.R. 63 RELOCATED UNDER S.R. 4
 BUTLER CO. STA. 21+01.27 STA. 21+85.90
 DESIGNED DRAWN TRACED CHECKED REVIEWED DATE REVISED
 E.R.B. R.R.L. R.L.L. E.R.B. R.J.L. 7-25-62

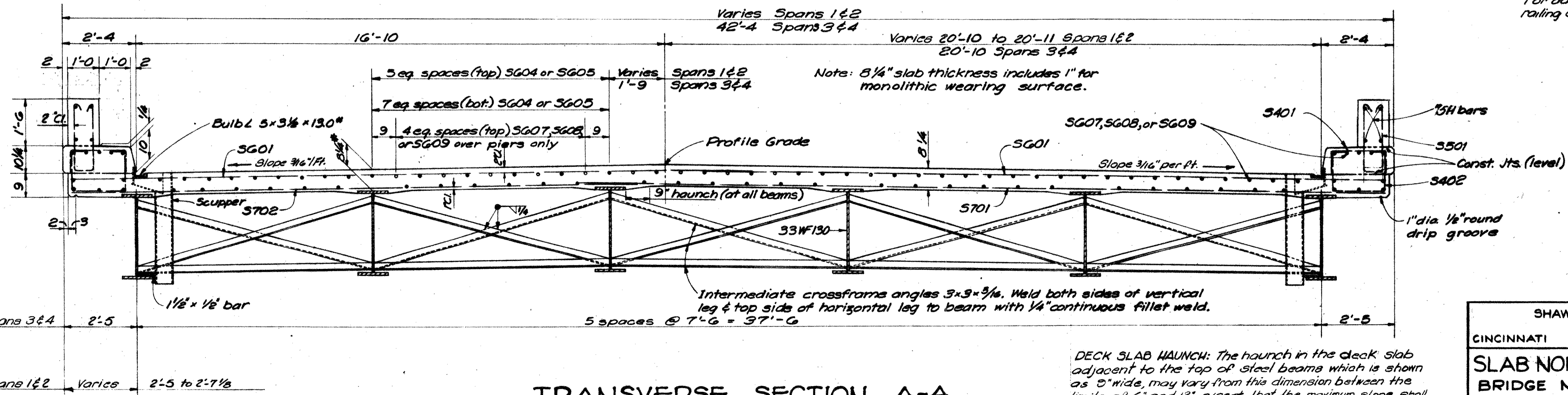
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OCT 31 1985



PLAN



STAGGER DIAGRAM SHOWING LOCATION OF ADDITIONAL TOP BARS AT PIERS



TRANSVERSE SECTION A-A

Notes:
Lap reinf. bars 30 diam.
For additional slab and railing details see sheet 105.

* This is the nominal dimension. The quantity of deck 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.

DECK SLAB HAUNCH: The haunch in the deck slab adjacent to the top of steel beams which is shown as 8" wide, may vary from this dimension between the limits of 6" and 12", except that the maximum slope shall not exceed 3 inches per foot. Payment for deck slab concrete shall be based on the 8" width.

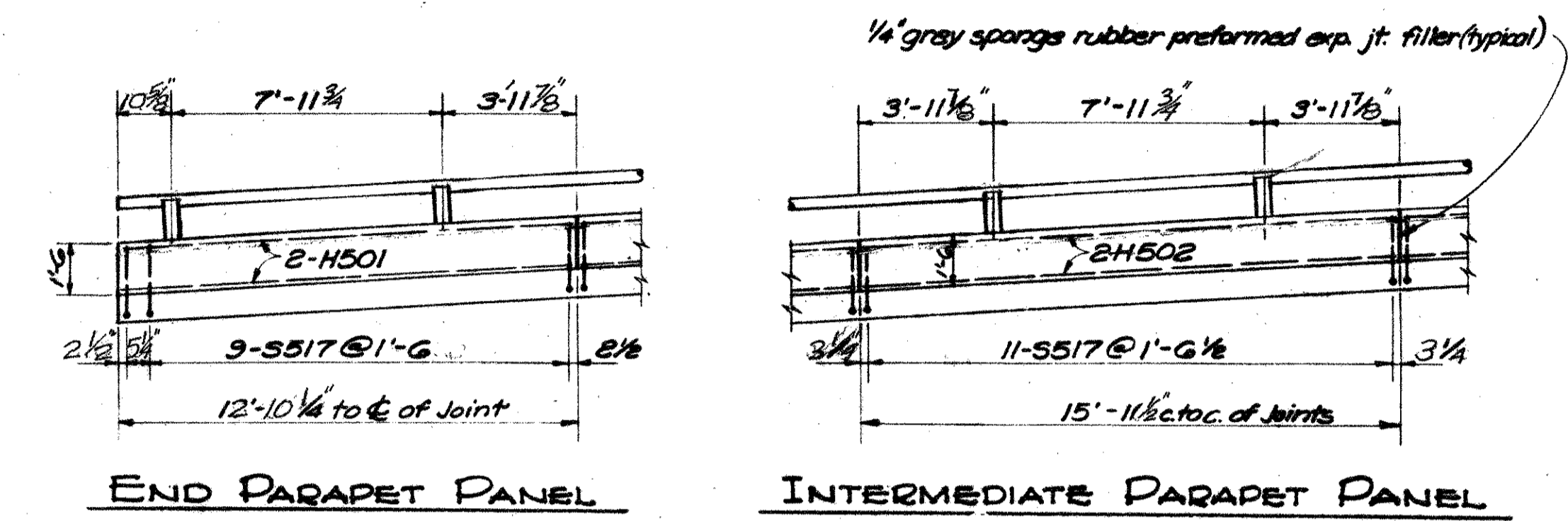
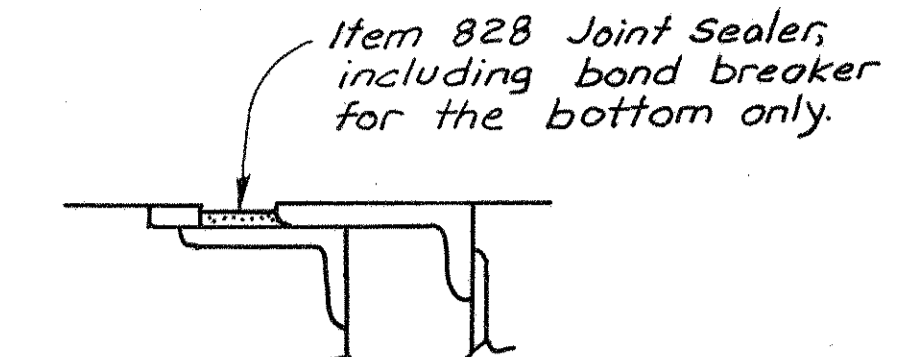
SHAW, LENZ & ASSOCIATES ENGINEERS		OHIO
CINCINNATI		
SLAB NORTHBOUND BRIDGE		
BRIDGE NO. BUT-63-0043		
S.R. 63 RELOCATED UNDER S.R. 4		
BUTLER CO.	STA. 21+01.27	
	STA. 21+85.90	
DESIGNED	DRAWN	TRACED
CHECKED	REVIEWED	DATE
REVIS	REVIS	REVIS
E.R.B.	R.L.L.	R.J.L. 1-25-62

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OCT 31 1985

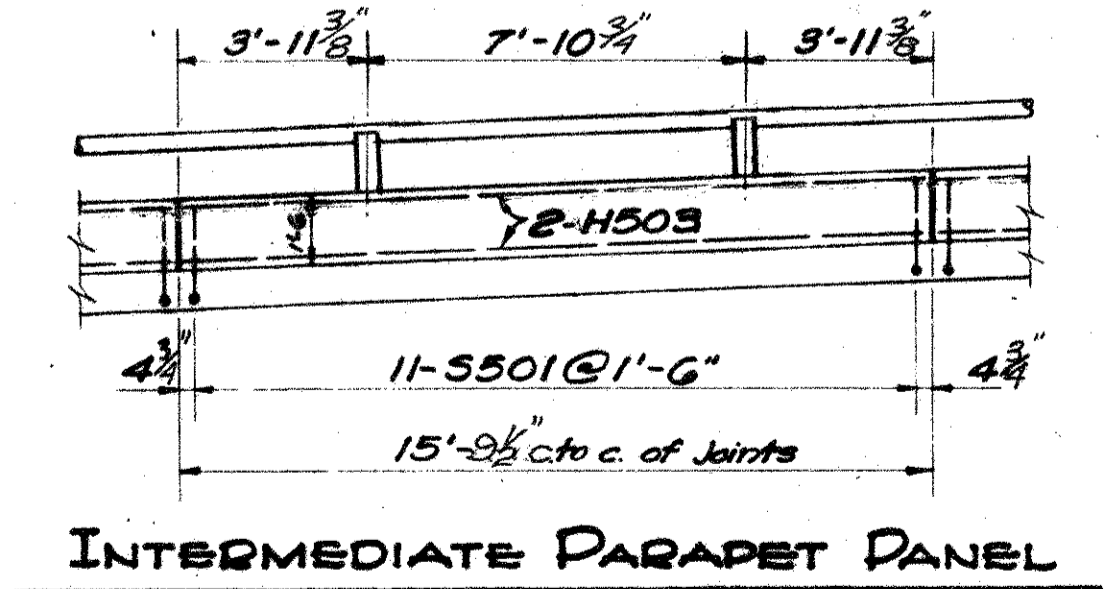
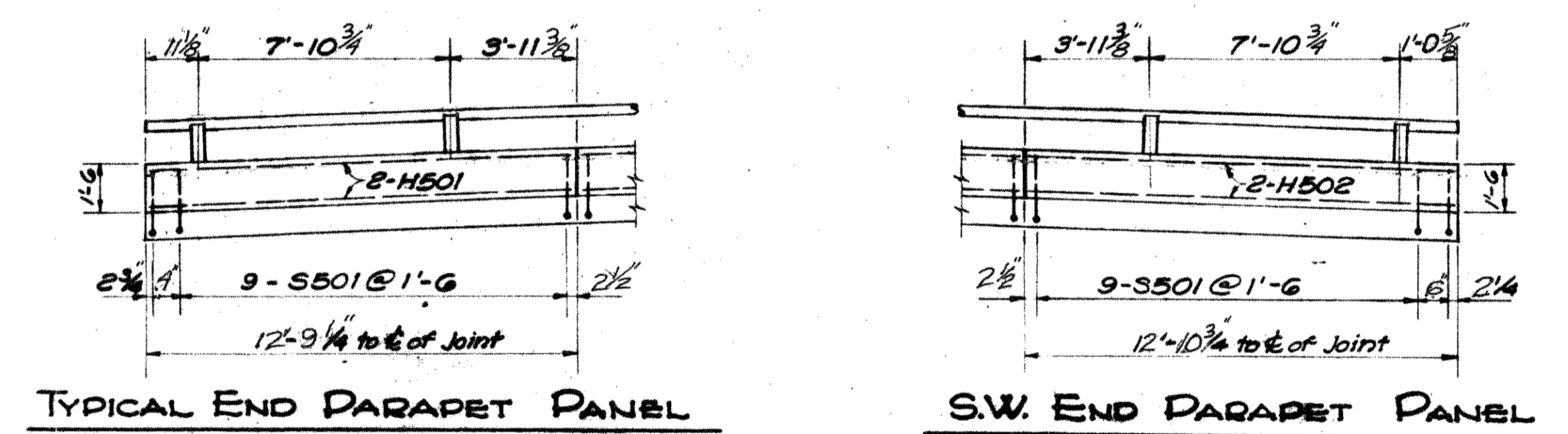
FED. RD. DIVISION	STATE	PROJECT
	OHIO	

BUTLER COUNTY BUT 63-0.00

105
138

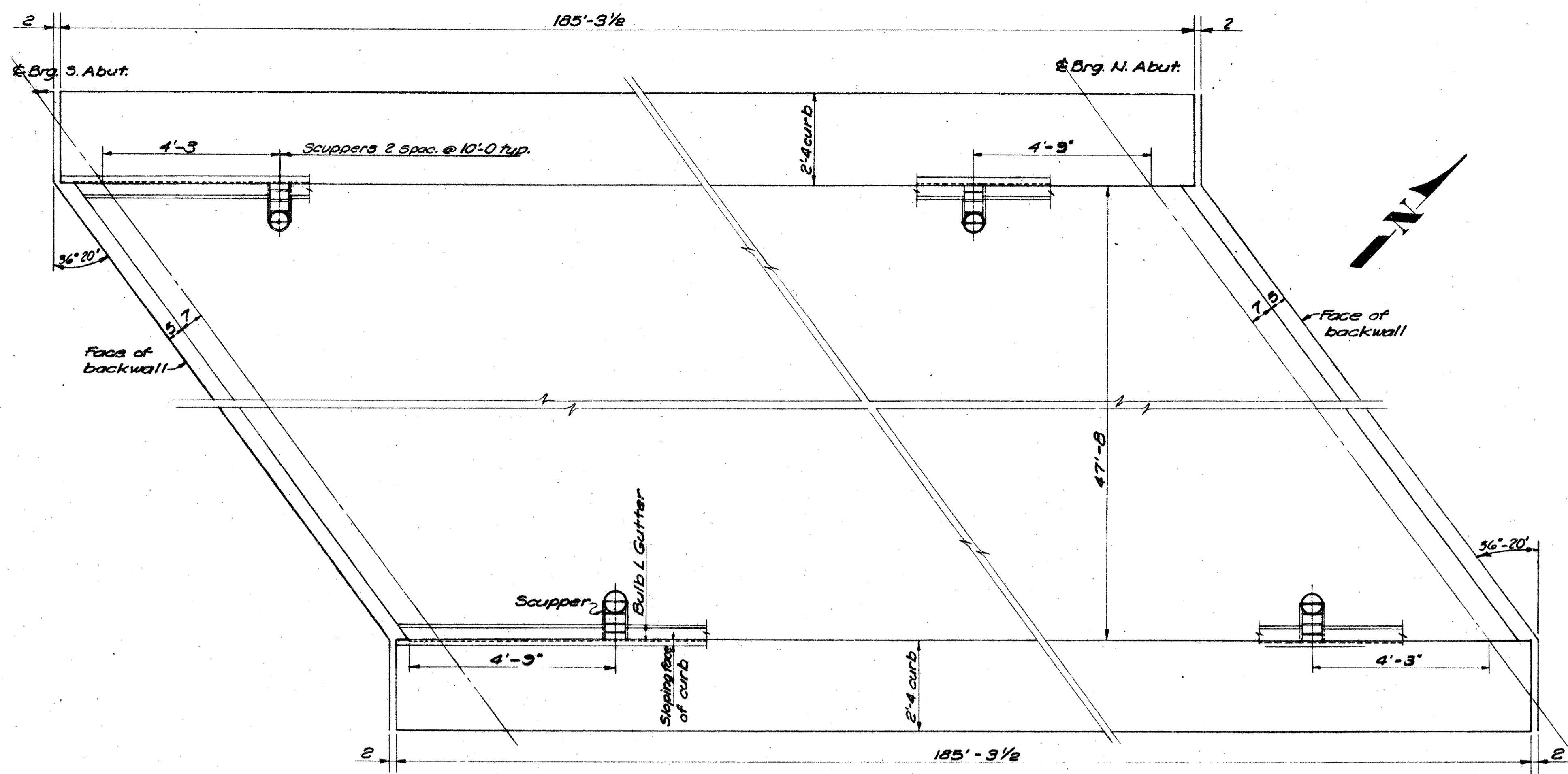


TYPICAL RAILING DETAILS
SOUTHBOUND BRIDGE
BUT-63-0041

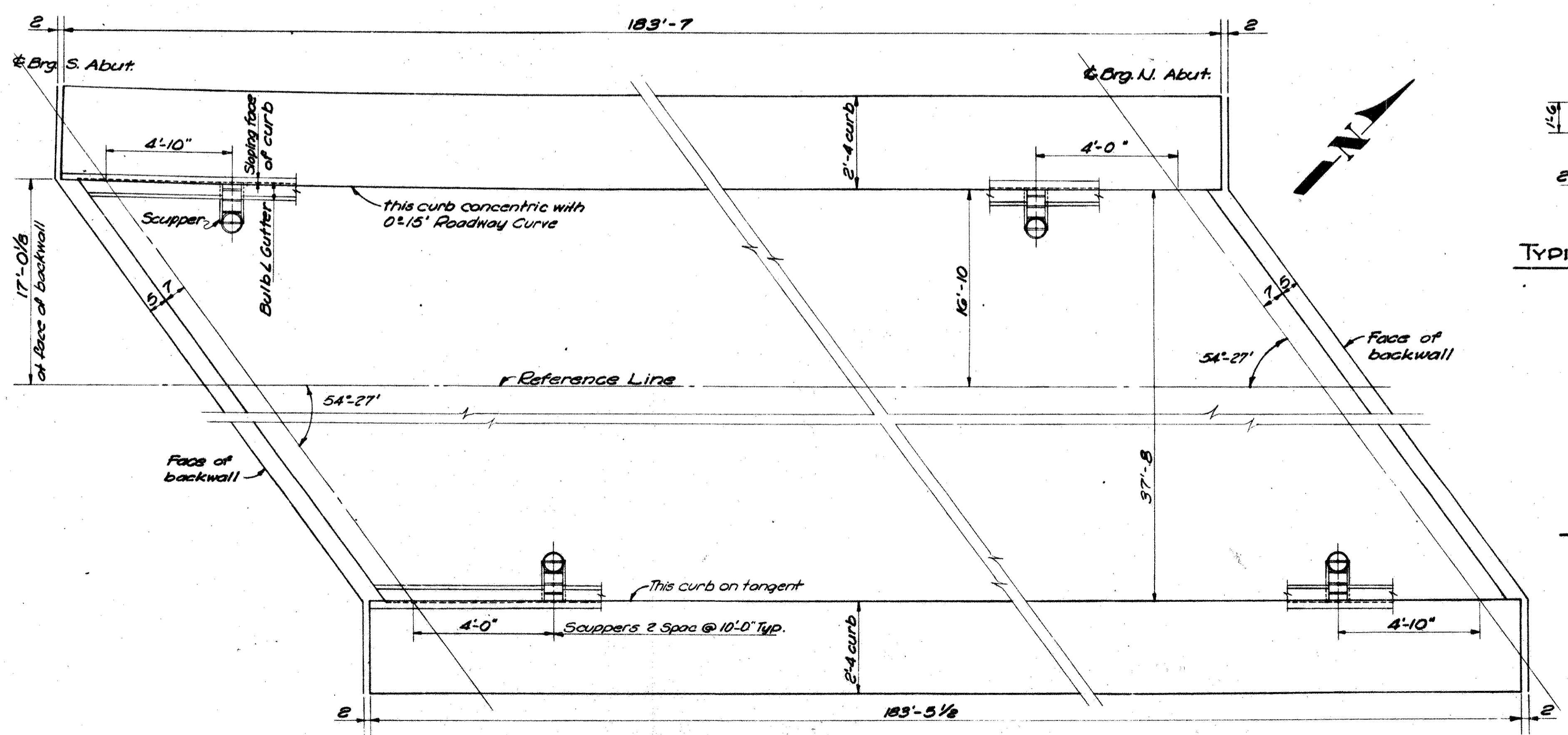


TYPICAL RAILING DETAILS
NORTHBOUND BRIDGE
BUT-63-0043

Notes:
RAILING: Bridge Railing Type 1, with concrete parapet. For details see Std. Dwg. BR-1-65 Sheet 1, dtd. 2-1-65
For Bulb Angle Gutter and Scuppers See Std. Dwg. 150-1-63



PLAN SOUTHBOUND BRIDGE
BUT-63-0041



PLAN NORTHBOUND BRIDGE
BUT-63-0043

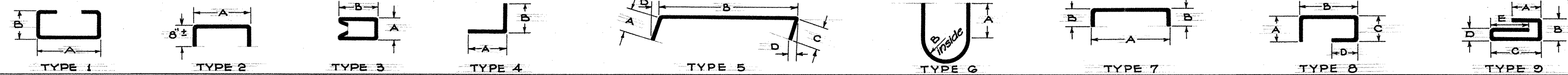
SHAW, LENZ & ASSOCIATES ENGINEERS		OHIO
CINCINNATI		
SLAB & RAILING DETAILS		
BRIDGE NO. BUT-63-0041 & 0043		
S.R. 63 RELOCATED		
UNDER S.R. 4		
BUTLER CO.	STA. 21+01.27	
	STA. 21+85.00	
DESIGNED	DRAWN	TRACED
CHECKED	REVIEWED	DATE
E.R.B.	R.R.L.	R.J.L. 7-25-62

REINFORCING STEEL BAR SCHEDULE

MICROFILMED
OCT 31 1985

FED. RD. DIVISION	STATE	PROJECT
	OHIO	
BUTLER COUNTY. BUT-63-0.00		

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SUPERSTRUCTURE

MARK NO.	LENGTH	TYPE	A	B	C	D	WEIGHT	LOCATION
S401	246	2'-9"	1				452	
S402	246	4'-11"	2				808	
S501	256	5'-7"	3				1491	
H501*	12	12'-5"	Str.					
H502*	4	12'-7"						
H503*	80	15'-5"	Str.					
S601	446	22'-0"	Str.				14738	
S602	42	2'-3" to 23'-1"		Vary 2 each by 12 1/2"			799	
S603	30	4'-9" to 19'-4"		Vary 2 each by 12 1/2"			543	
S604	280	40'-0"					16822	
S605	58	30'-1"					2621	
S606	16	30'-9"					739	
S607	29	19'-0"					828	
S608	29	22'-6"					960	
S609	29	20'-6"	Str.				893	
S701	219	25'-9"	Str.				11527	
S702	227	18'-3"					8468	
S703	17	2'-3" to 18'-11"		Vary 1 each by 12 1/2"			368	
S704	19	4'-4" to 23'-1"					532	
S705	25	2'-3" to 27'-3"					754	
S706	11	5'-2" to 15'-7"	Str.	Vary 1 each by 12 1/2"			233	
Total Weight							63596	

ABUTMENTS

MARK NO.	LENGTH	TYPE	A	B	C	D	E	WEIGHT	LOCATION	
F501	34	4'-7"	4	3'-8"	1'-0"			163	Footing	
F504	18	27'-6"	Str.					516	Footing	
F505	2	25'-0"	Str.					52	Footing	
F601	124	4'-6"	4	3'-8"	1'-0"			838	Footing	
F602	46	4'-9"	4	3'-11"	1'-0"			328		
F605	68	5'-9"	Str.					587		
F606	4	12'-9"	Str.					77		
F607	4	13'-6"	Str.					81	Footing	
A512	34	5'-2"	7	3'-5"	1'-0"			183	Abutment Wall	
A519	10	5'-0"	Str.					52		
A520	13	5'-6"						75		
A521	21	6'-2"						135		
A522	20	26'-0"						542		
A523	10	25'-3"						263		
A524	20	26'-1"						544		
A525	10	25'-4"	Str.					264	Abutment Wall	
A606	29	12'-1"	9	3'-5"	1'-5"	5'-0"	0'-11"	2'-0"	526	Abutment Wall
A607	17	12'-8"	9	5'-0"	1'-5"	5'-0"	1'-5"	0'-6"	323	
A608	29	11'-9"	9	3'-5"	1'-3"	5'-0"	0'-9"	2'-0"	512	
A609	17	12'-4"	9	5'-0"	1'-3"	5'-0"	1'-3"	0'-6"	315	
AG10	36	5'-6"	Str.					298		
AG11	62	6'-2"	Str.					574	Abutment Wall	
W405	4	11'-7"	Str.					31	Curb	
W406	8	13'-4"	Str.					71	Curb	
W407	4	15'-1"	Str.					40	Curb	
W508	28	4'-9"	8	1'-3"	1'-8"	1'-6"	0'-8 1/2"	139	Curb	
W509	4	4'-8"	8	1'-3"	1'-7 1/2"	1'-6"	0'-8"	19		
W510	4	4'-6"	8	1'-3"	1'-6 1/2"	1'-6"	0'-7"	19		
W511	4	4'-4"	8	1'-3"	1'-5 1/2"	1'-6"	0'-6"	18		
W512	4	3'-10"	8	1'-3"	1'-4"	1'-6"		16		
W513	4	3'-9"	8	1'-3"	1'-2 1/2"	1'-6"		16		
W514	4	3'-7"	8	1'-3"	1'-0 1/2"	1'-6"		15		
W515	4	3'-4"	8	1'-3"	0'-10"	1'-6"		14	Curb	
W539	7	10'-8"	Str.					78	Wingwall	
W540	4	9'-1"						38		
W541	3	4'-0"						13		
W542	14	10'-9"						157		
W543	8	3'-6"						29		
W544	3	11'-8"						37		
W545	6	5'-0"						31		
W546	6	10'-2"						64		
W547	2	8'-2"						17		
W548	2	3'-10"						8		
W549	16	9'-9"						163		
W550	8	3'-6"						29		
W551	3	13'-6"						42		
W552	6	3'-0"						19		
W553	6	10'-8"						67		
W554	1	7'-8"						8		
W555	3	13'-4"						42		
W556	3	3'-10"						12		
W557	14	10'-2"						148		
W558	4	8'-3"						34		
W559	12	3'-7"						45		
W560	6	5'-0"						31		
W561	7	10'-2"						74		
W562	1	9'-6"						10		
W563	3	15'-2"						47		
W564	2	4'-1"						9		
W565	16	11'-2"						186		
W566	2	9'-2"						19		
W567	12	3'-9"						47		
W568	6	3'-0"	Str.					19	Wingwall	

SPIRAL REINFORCING BARS: The length shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus 3 turns (total number of closed coils), expressed as the nearest whole number. Spiral reinforcing bars shall not have deformations but shall in other respects conform to 509. 1 1/2 closed coils shall be provided at ends of each spiral unit. Four steel channel, tee or angle spacers, weighing approximately 0.68 lb. per lin. ft. of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.68 lb. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

REPLACEMENT BARS

MARK	NUMBER	LENGTH
RE401	1	5'-3"
RE501	4	5'-7"
REG01	5	5'-11"
RE701	2	6'-3"
RE801	1	6'-6"
RE901	1	6'-10"
RE1001	2	7'-3"

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size number. For example, A100 is No. 7 size bar and A1014 is a No. 10 size.

Bar bending dimensions are out to out.
* Refer to Std. Drawg. BR-1-65 for Bending Diagram
* Included in unit price bid for Item 517.

Total weight of reinforcing steel Northbound Bridge: 105,412 lbs.

PIER	MARK	NO. REQ'D	CORE DIA. O to O	LENGTH	PITCH	NO. OF TURNS	TOTAL WEIGHT
1	SP404	1	32"	15'-8 1/16"	3 1/2"	57	362
1	SP405	1	32"	15'-5 3/4"	3 1/2"	56	356
1	SP406	1	32"	15'-2 3/4"	3 1/2"	55	349
1	SP407	1	32"	15'-0 3/8"	3 1/2"	55	349
2	SP408	1	32"	14'-3 5/8"	3 1/2"	52	330
2	SP409	1	32"	14'-1 3/8"	3 1/2"	51	324
2	SP410	1	32"	13'-10 3/8"	3 1/2"	51	324
2	SP411	1	32"	13'-7 7/8"	3 1/2"	50	317
3	SP412	1	32"	16'-8 3/8"	3 1/2"	60	381
3	SP413	1	32"	16'-5 1/8"	3 1/2"	60	381
3	SP414	1	32"	16'-3"	3 1/2"	59	374
3	SP415	1	32"	16'-0 1/2"	3 1/2"	58	369

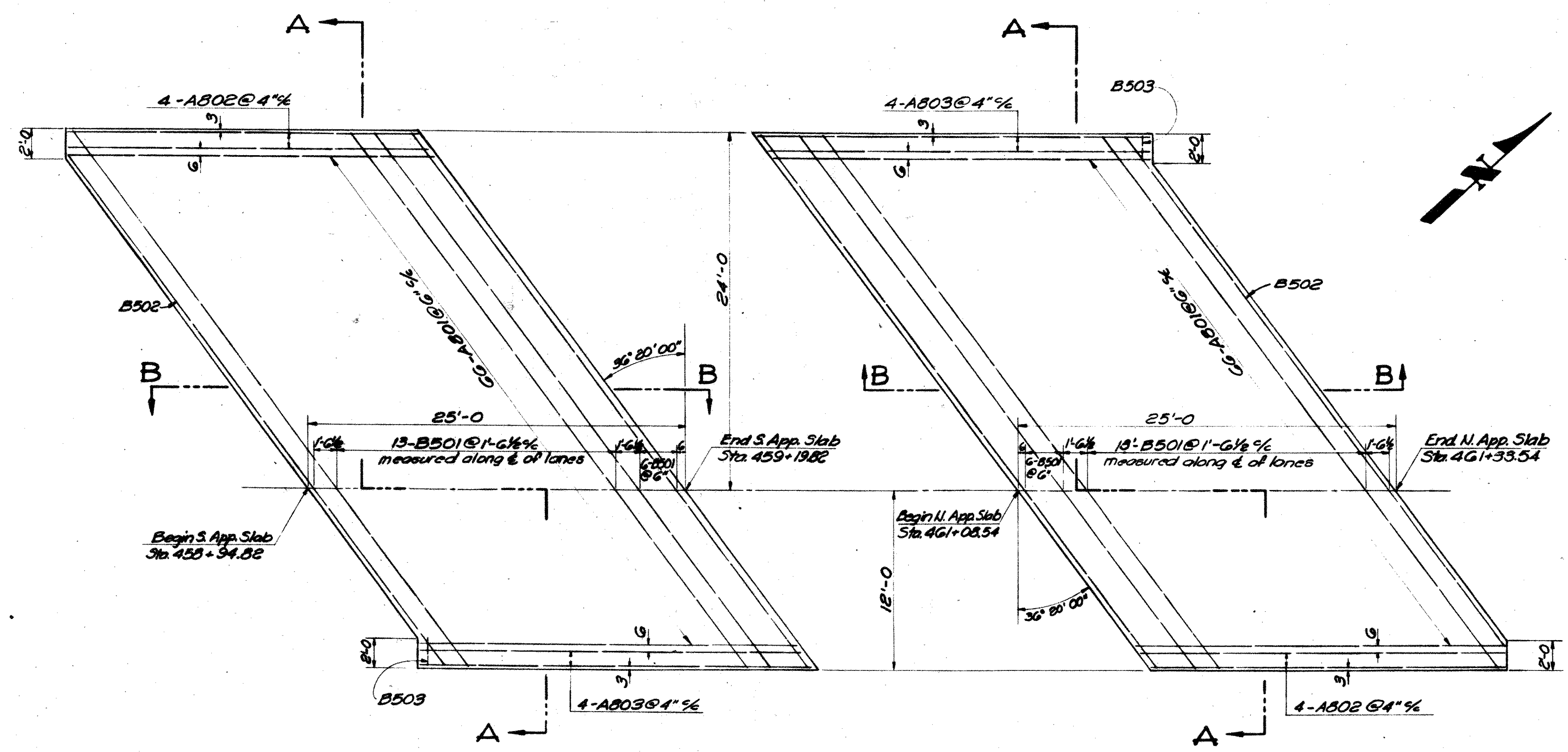
Total Weight Spirals 4,216 lbs.

SHAW LENZ & ASSOCIATES ENGINEERS
CINCINNATI OHIO

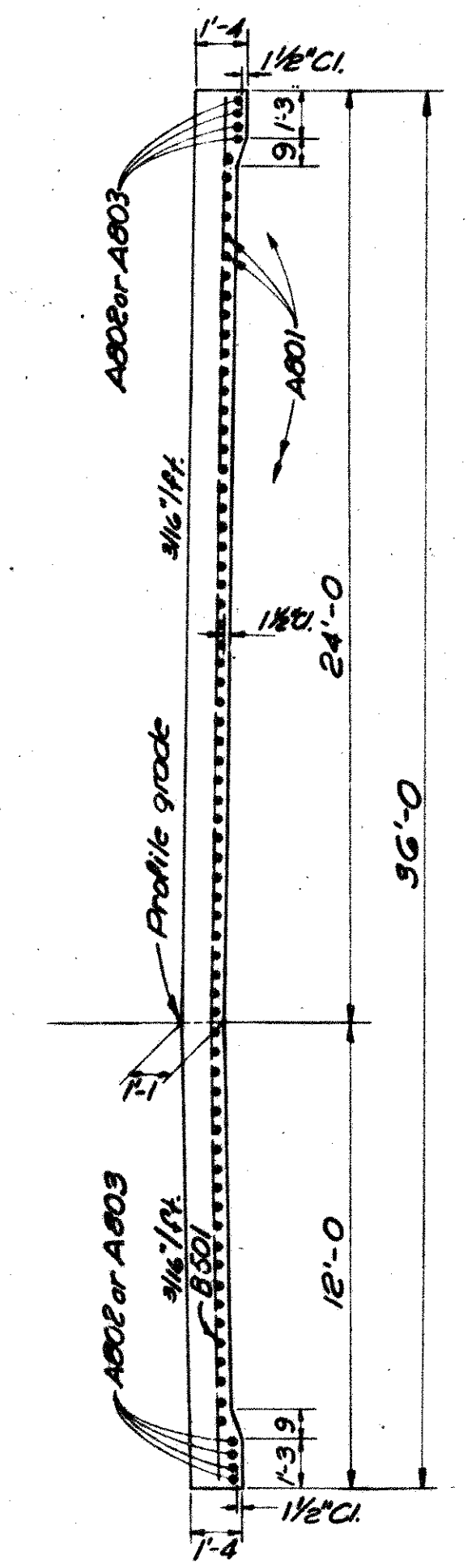
REINFORCING STEEL NORTHBOUND BRIDGE
BRIDGE NO. BUT-63-0043
S. R. G3 RELOCATED UNDER S.R. 4

BUTLER COUNTY STA. 21+01.27 STA. 21+85.90

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ERB	SJB	SJB	ERB	RJL	7-25-62	

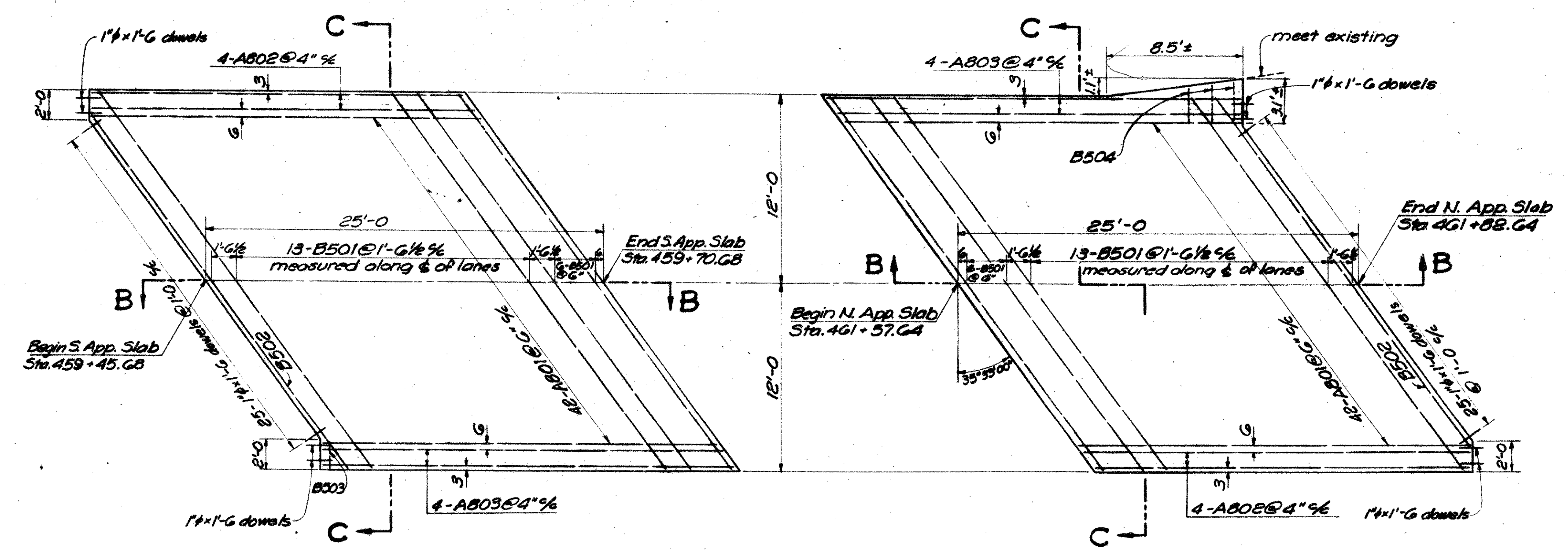


PLAN SOUTHBOUND
BUT-63-0041

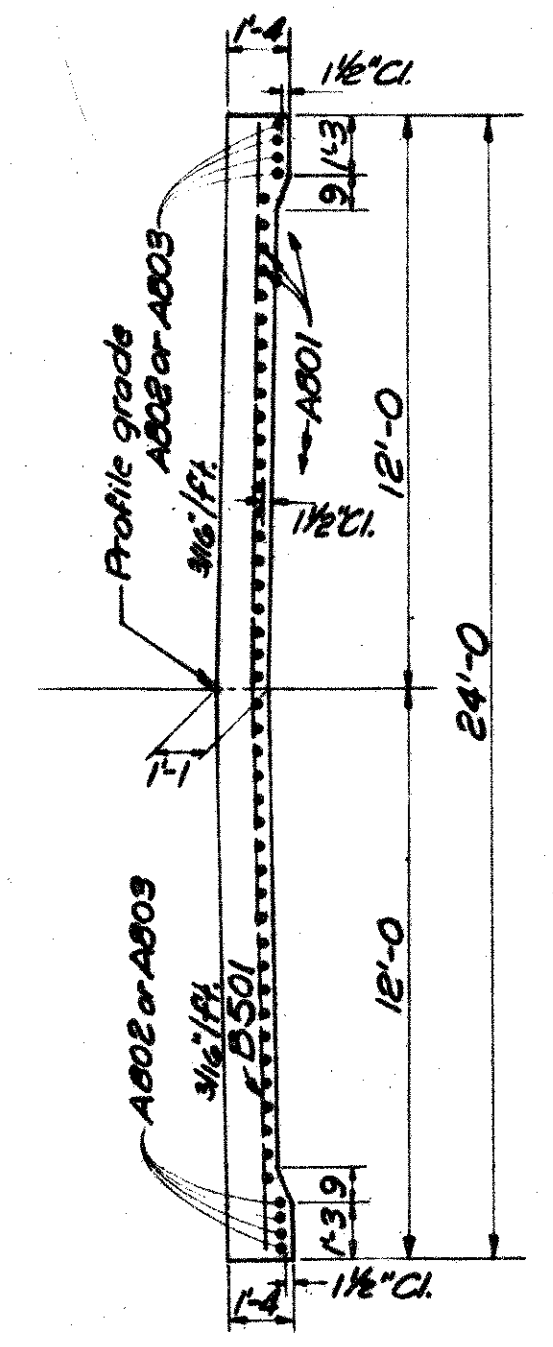


SECTION A-A

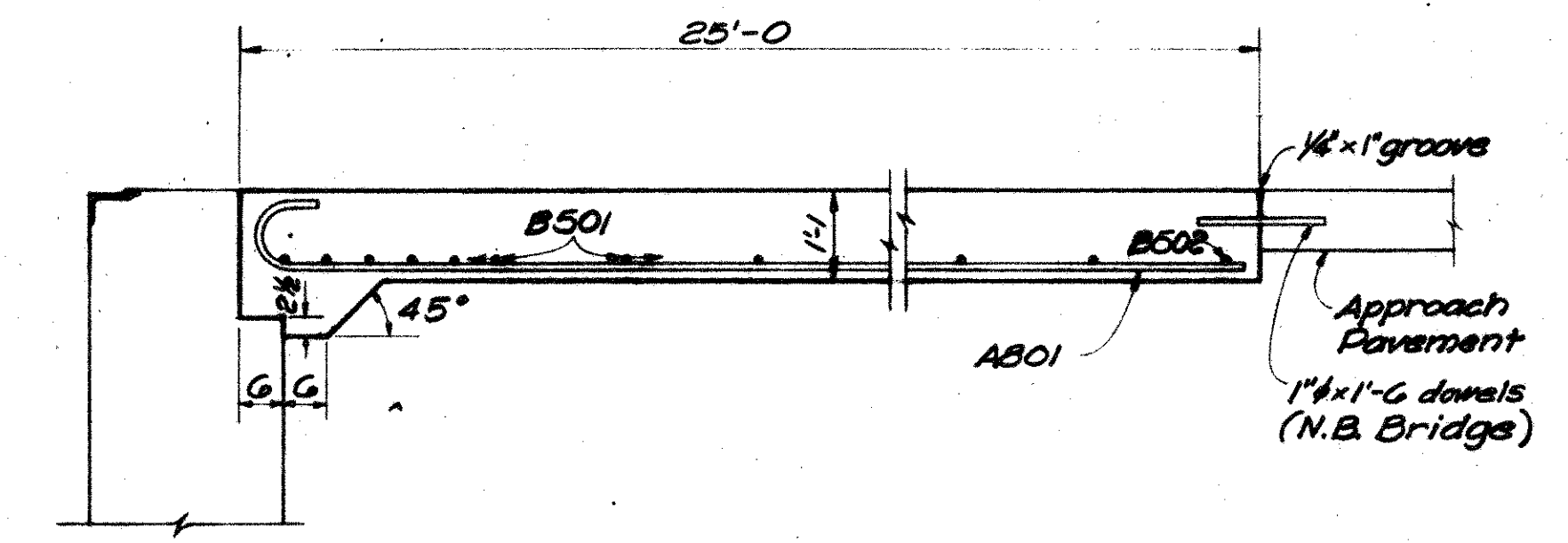
REINFORCING STEEL				
MARK NO.	LENGTH	SHAPE	BENDING	
SOUTHBOUND				
A801	132	25'-7"	Bt.	A801
A802	8	24'-6"	Bt.	A802
A803	8	24'-6"	Bt.	A802
B501	38	44'-1"	Str.	23'-9" to 24'-0"
B502	2	42'-1"	Str.	A803
B503	2	2'-0"	Str.	25'-0" to 25'-9"
NORTHBOUND				
A801	54	25'-7"	Bt.	A801
A802	8	24'-6"	Bt.	A802
A803	8	24'-6"	Bt.	A802
B501	38	28'-11"	Str.	23'-9" to 24'-0"
B502	2	26'-11"	Str.	A803
B503	1	2'-0"	Str.	25'-0" to 25'-9"
B504	3	2'-0"	Str.	
58 - 1" x 1'-G dowels				



PLAN NORTHBOUND
BUT-63-0043



SECTION C-C



SECTION B-B

SHAW, LENZ & ASSOCIATES
ENGINEERS
CINCINNATI OHIO

APPROACH SLABS
BRIDGE NO. BUT 63-0041&0043
S.R. 63 RELOCATED
UNDER S.R. 4
BUTLER CO. STA. 21+01.27
STA. 21+85.90

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.R.B.	R.L.L.	R.L.L.	R.J.L.	R.J.L.	7-25-62	