

Horizontal Curve Data S.R.-124

P.I. Sta. 576+19.75
 $\Delta = 25^{\circ}06'59''$ Lt
 $D = 1^{\circ}28'00''$
 $R = 3,906.53'$
 $L = 1,712.48'$
 $T = 870.22'$
 $E = 95.75'$
 Superelev. = 0.036 ft./ft.

Horizontal Curve Data S.R.-93

P.I. Sta. 816+39.52
 $\Delta = 3^{\circ}00'31''$ Lt
 $D = 0^{\circ}28'00''$
 $R = 12,277.67'$
 $L = 644.70'$
 $T = 322.43'$
 $E = 4.23'$

MICROFIL
 AUG 18 1986

PROPOSED STRUCTURE

TYPE: Continuous Steel Beam Bridge with Reinforced Conc. Deck & Substructures
 SPANS: 40'-4"; 57'-7"; 57'-8"; 40'-4" % Bearings
 ROADWAY: 68'-0" f/f Parapets w/9'-0" sidewalks
 LOADING: HS 20-44
 WEARING SURFACE: 1" Monolithic Concrete
 SKEW: 1°32'24" R.F.
 APPROACH SLAB: AS-1-67, (20'-0" long)
 ALIGNMENT: 0°28'00" curve & tangent
 SUPERELEVATION: None
 AVERAGE DAILY TRAFFIC: 4870 (1975)

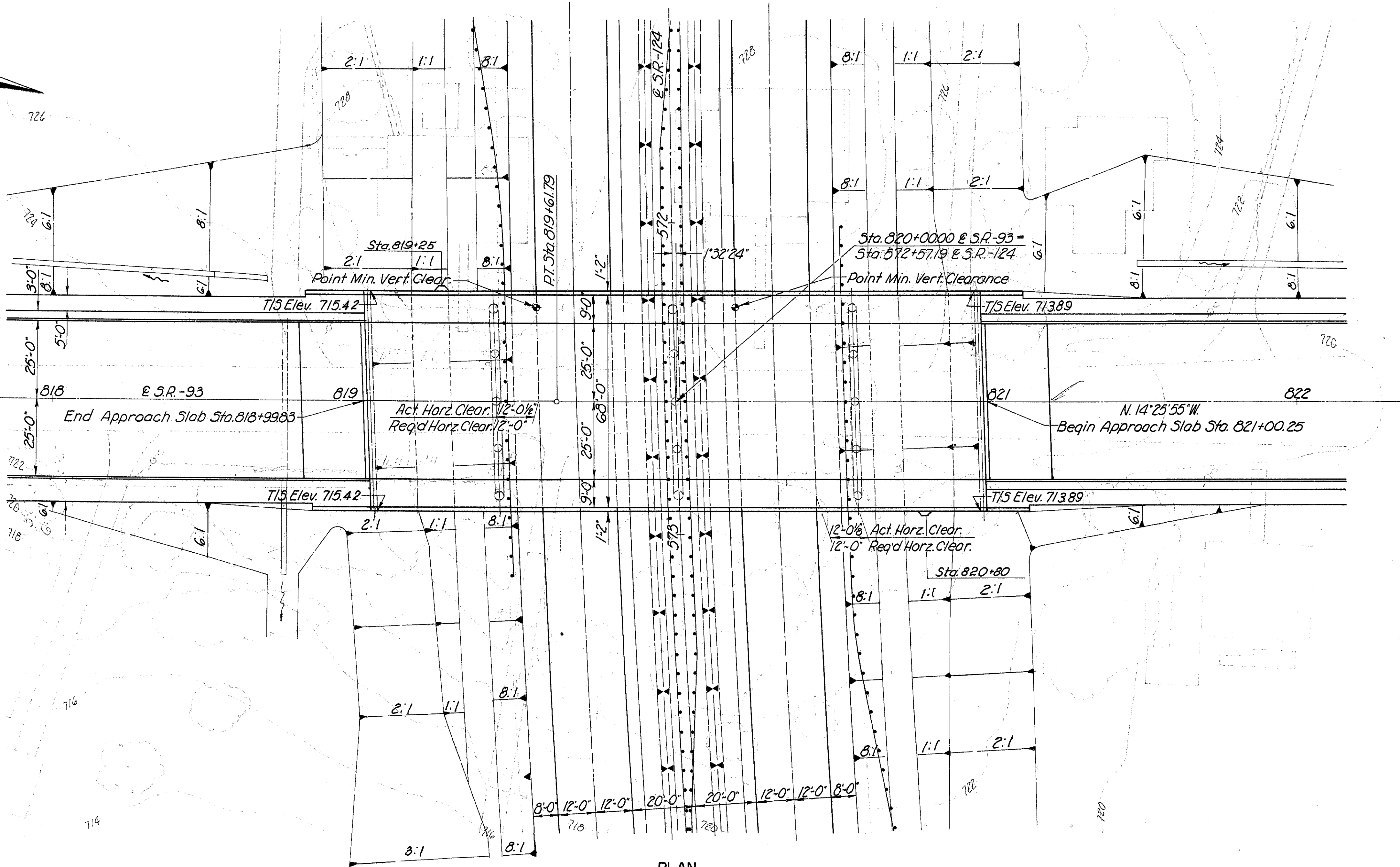
FRANKLIN ENGINEERING ASSOCIATES LIMITED
 Consulting Engineers COLUMBUS, OHIO

SITE PLAN

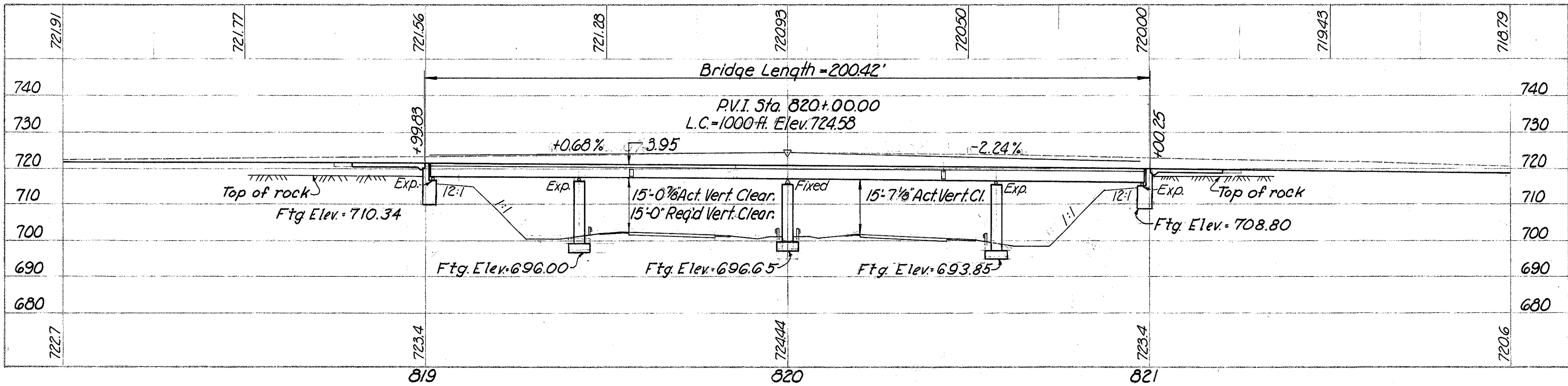
BRIDGE NO. JAC-124-1084
 under SR-93

JACKSON COUNTY SR-124

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	Meb			JH	8-22-88	

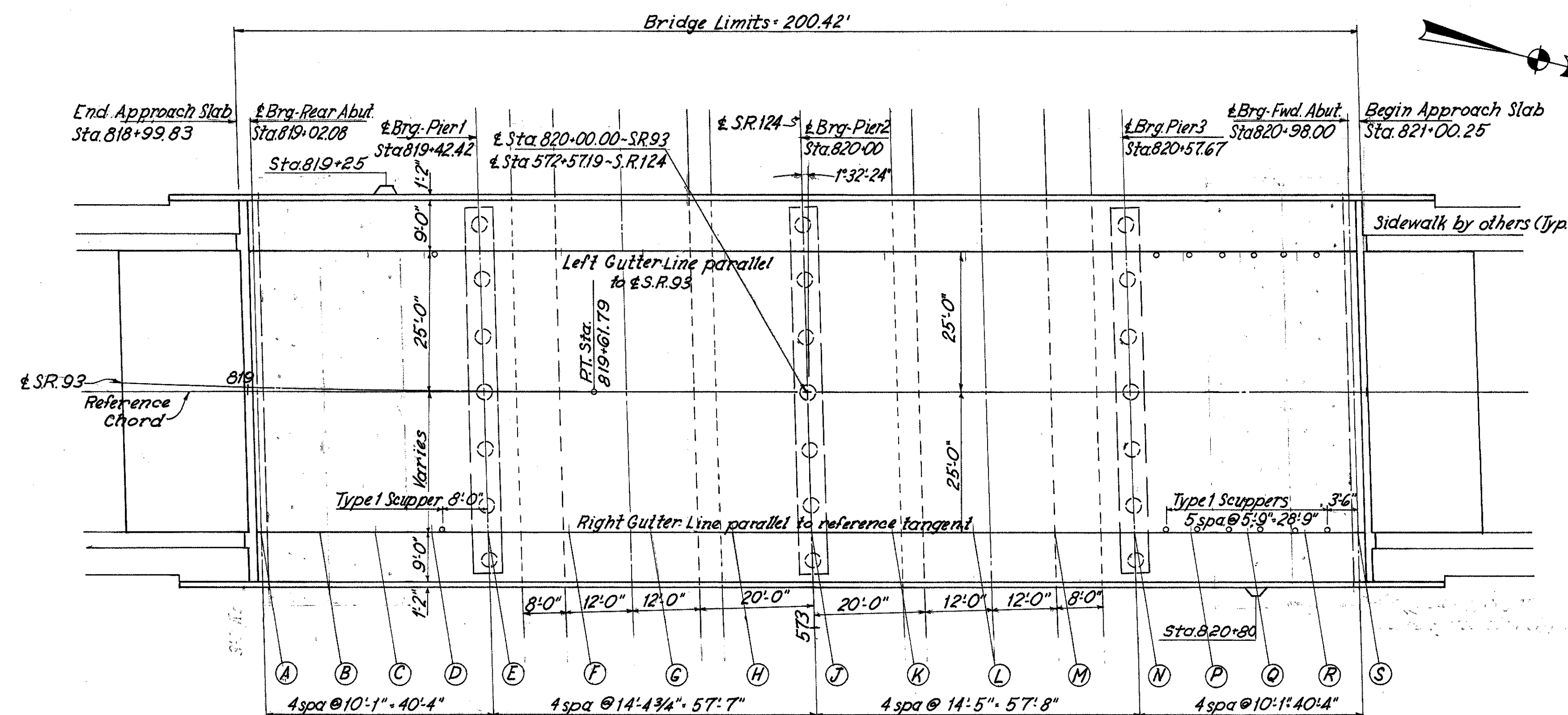


PLAN

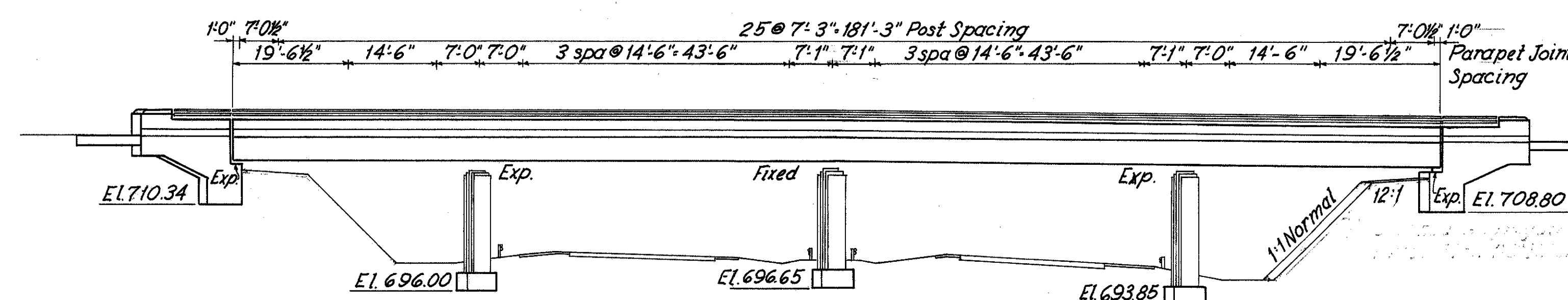


PROFILE ALONG C S.R.-93

JAC-124-10.21



PLAN



ELEVATION

GENERAL NOTES

REFERENCE shall be made to Standard Drawings AS-1-67 revised (6-12-69), BR-1-67 (2-1-68), RB-1-55 (rev. 2-2-59), SD-1-65 (11-8-65), sheets 1, 2 and 3 of 3, and Supplemental Specifications 808(1-1-67), 811(dated 1-1-69) & 825(1-1-69).

DESIGN SPECIFICATIONS: This structure conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway Officials, 1965, including the Ohio "Supplement" to these Specifications.

DESIGN DATA
Design Loading
Concrete, Class C

HS-20-44
Unit Stress 1200 psi for Superstructure
Unit Stress 1333 psi for Substructure
ASTM A36 - Unit Stress 20,000 psi
ASTM A15, A16, A160, deformed, intermediate, or hard grade.
Unit Stress 20,000 psi except that spiral reinforcement may be plain bars, structural grade with minimum ultimate strength of 58,000 psi.

FOUNDATION BEARING PRESSURE: Pier and abutment footings are designed for a maximum bearing pressure of 5 tons per square foot.

FOOTINGS shall be placed in bedrock at the elevation shown.

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 Owner. The contractor and the Owner are requested to cooperate by arranging their work in such a manner that inconvenience to either would be held to a minimum.

WELDS: Non-stress carrying welds are shown thus: N

WELDED ATTACHMENTS: No attachments shall be made by field welding to the top flanges of continuous beams within a distance of 0.10 of the span length on either side of the interior supports. Welding for attachments to the top flanges at other parts of the spans shall be kept at least 2" from edge of flange.

ESTIMATED QUANTITIES									
ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIERS	GEN'L.		
503	11	Cu. Yds.	Unclassified Excavation		11				
503	286	Cu. Yds.	Rock Excavation		126	160			
509	180,410	Lbs.	Reinforcing Steel	127,886	11,667	40,857			
511	504	Cu. Yds.	Class "C" Concrete, Superstructure	504					
511	196	Cu. Yds.	Class "C" Concrete, Abutment		196				
511	90	Cu. Yds.	Class "C" Concrete, Pier Footing			90			
511	98	Cu. Yds.	Class "C" Concrete, Piers above Footing			98			
513	291,120	Lbs.	Structural Steel	291,120					
514	291,120	Lbs.	Field Painting of Structural Steel	291,120					
517	151.33	Lin. Ft.	Railing (Concrete parapet with double pipe rail)	394.67	56.66				
518	14	Each	Scuppers including Supports, Type 1.	14					
808	504	Units	Water reducing, set-retarding admixture	504					
825	1699	Sq. Yds.	Concrete Surface Treatment	1629	70				
See sheet no. 338 for lighting summary									

NOTE: Screed elevations are elevations before concrete is poured.

SCREED ELEVATIONS									
Point	A	B	C	D	E	F	G	H	J
Lt. Gutter	721.17	721.12	721.07	721.01	720.94	720.87	720.78	720.66	720.54
Rt. Gutter	721.16	721.12	721.06	721.00	720.94	720.86	720.78	720.65	720.53
Point	K	L	M	N	P	Q	R	S	
Lt. Gutter	720.44	720.34	720.20	720.05	719.95	719.86	719.76	719.64	
Rt. Gutter	720.43	720.33	720.19	720.03	719.94	719.85	719.74	719.63	

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FRANKLIN ENGINEERING ASSOCIATES LIMITED									
Consulting Engineers									
COLUMBUS, OHIO									
GENERAL PLAN, GENERAL NOTES & ESTIMATED QUANTITIES									
BRIDGE No. JAC-124-1084									
under SR-93									
JACKSON COUNTY									
SR. 124									
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED			
H1	FDS.		S.Y.	J4	12-68				

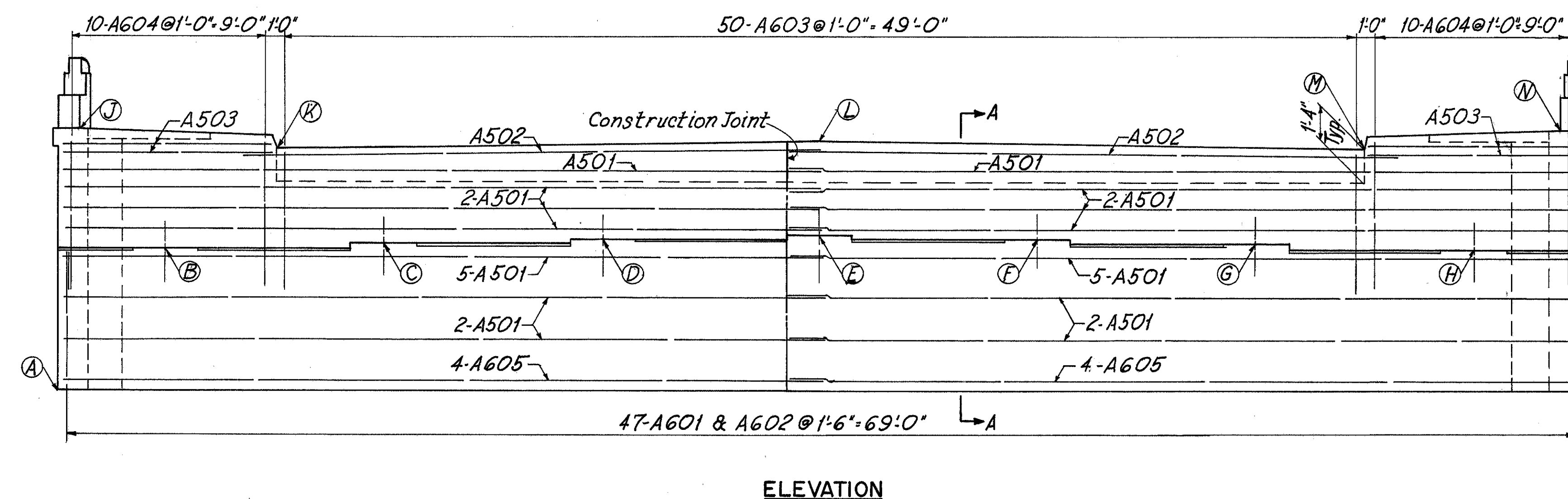
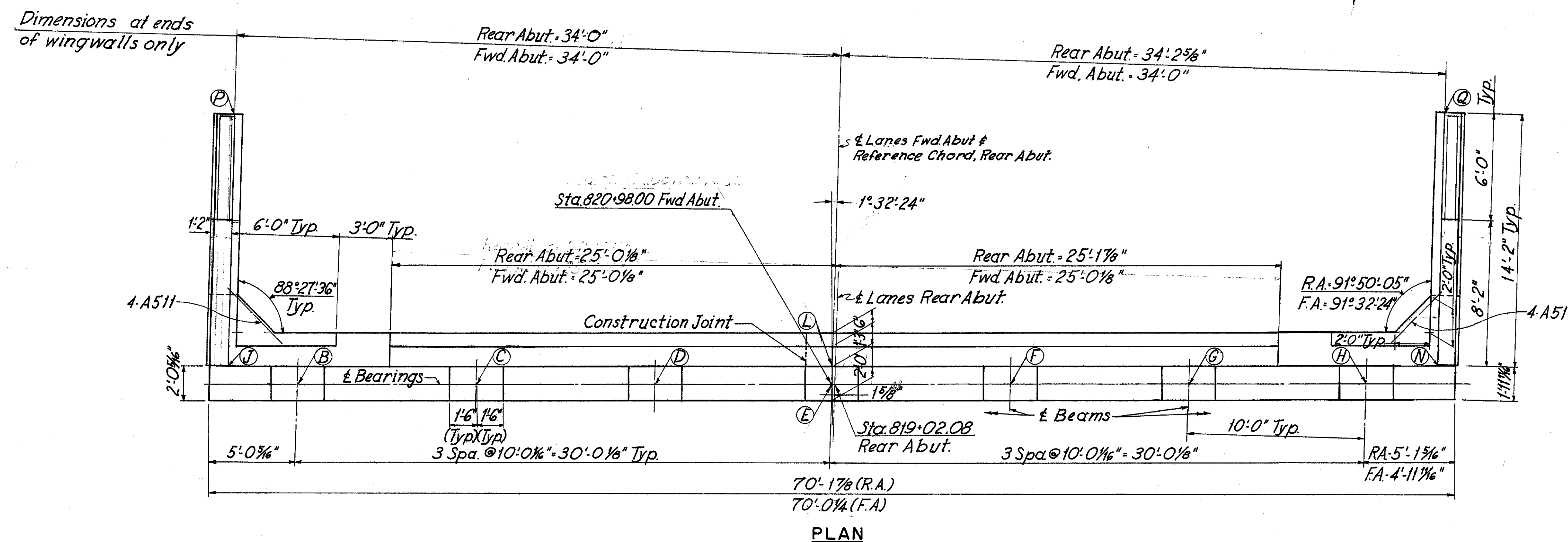
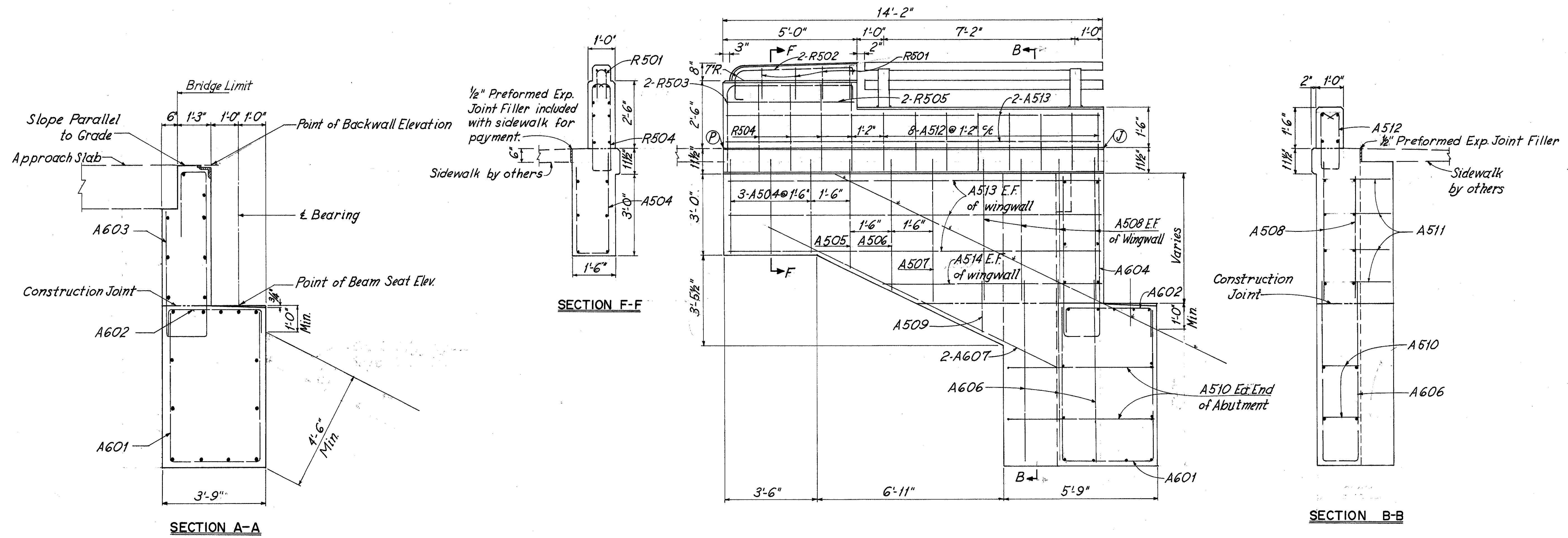
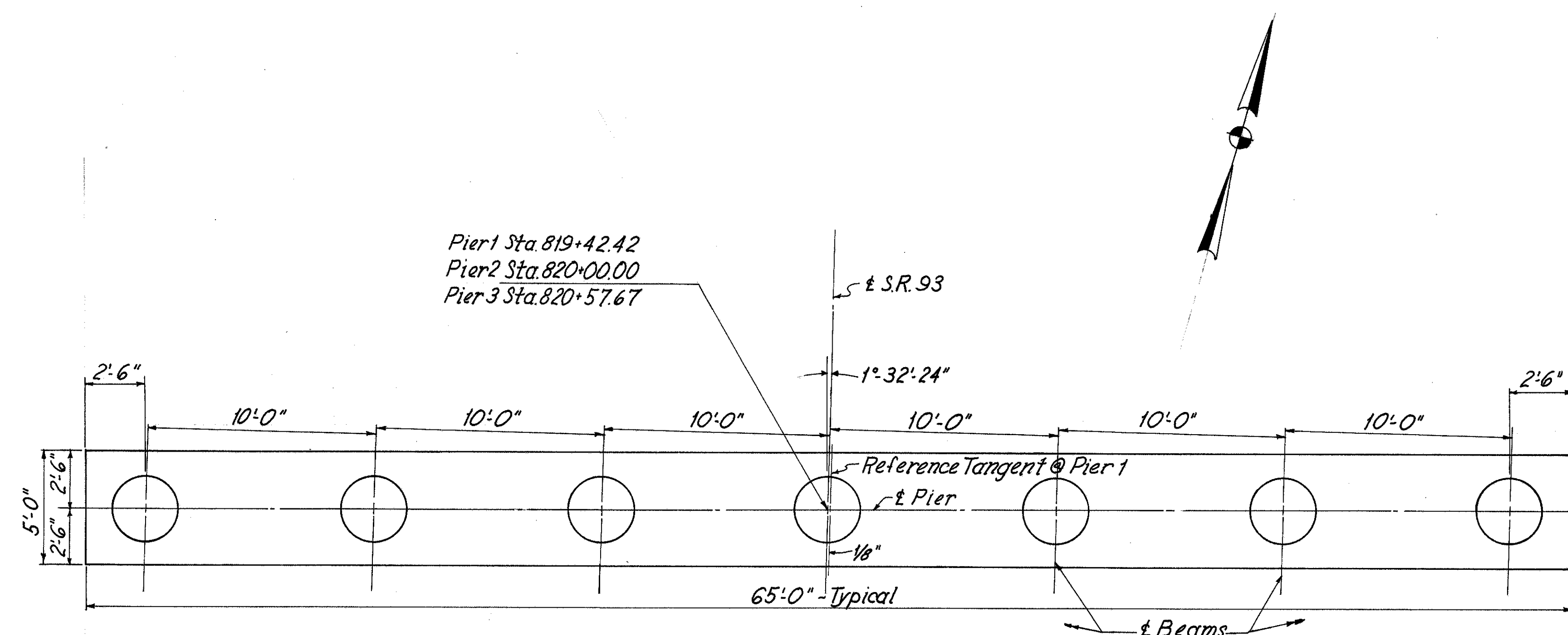


TABLE OF ELEVATIONS															
Point	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
Rear Abut.	710.34	716.42	716.86	717.01	717.17	717.01	716.85	716.42	722.12	721.16	721.56	721.17	722.13	722.19	722.20
Fwd. Abut.	708.80	714.90	715.33	715.49	715.64	715.48	715.32	714.89	720.59	719.63	720.01	719.62	720.57	720.44	720.42

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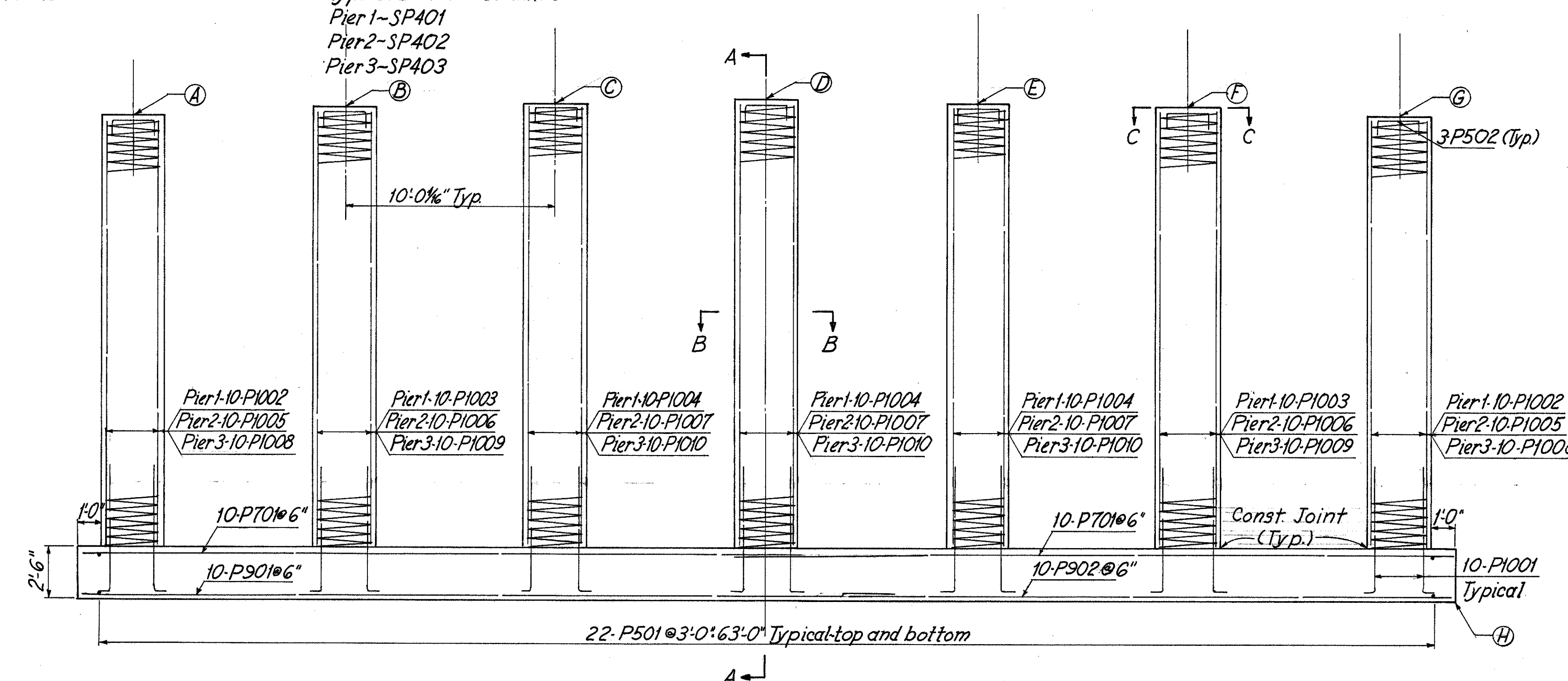


PLAN

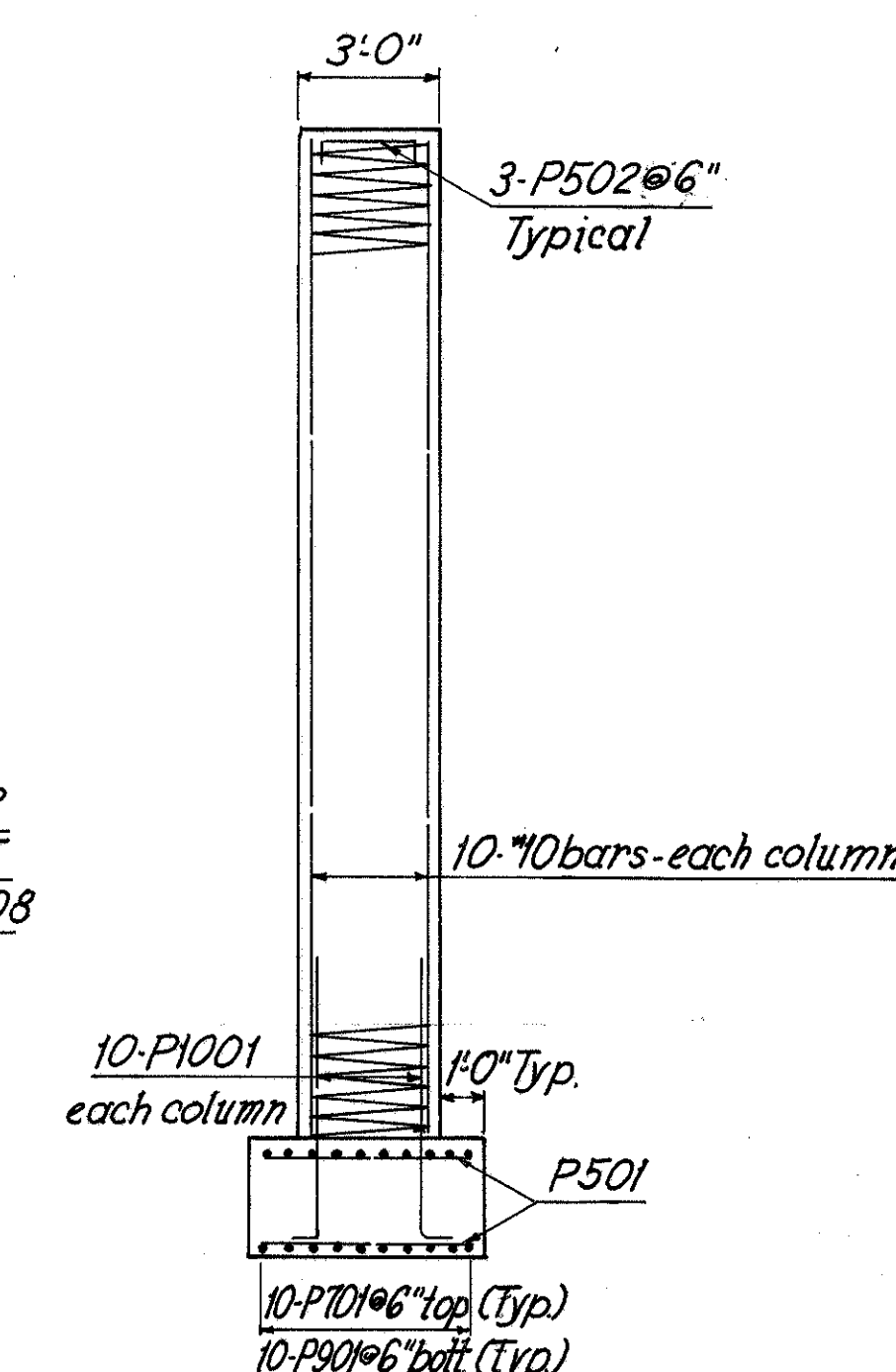
TABLE OF ELEVATIONS								
Point	A	B	C	D	E	F	G	H
Pier 1	715.82	716.26	716.42	716.57	716.41	716.25	715.81	696.00
Pier 2	715.34	715.80	715.95	716.11	715.95	715.79	715.33	696.65
Pier 3	714.92	715.36	715.52	715.67	715.51	715.35	714.90	693.85

Typical Exterior Columns
Pier 1-SP404
Pier 2-SP405
Pier 3-SP406

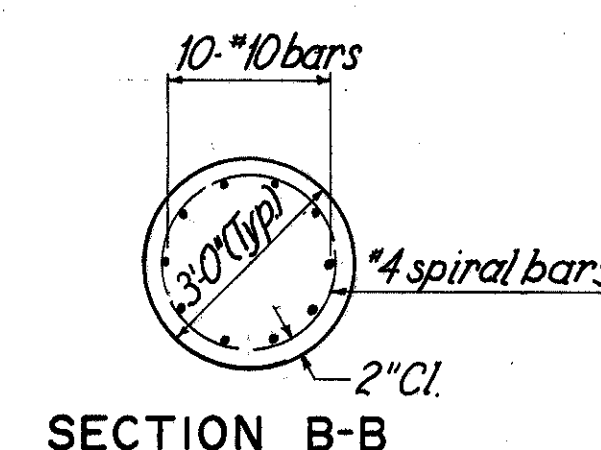
Typical Interior Columns
Pier 1-SP401
Pier 2-SP402
Pier 3-SP403



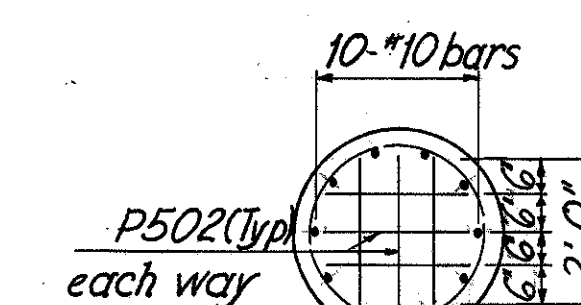
ELEVATION



SECTION A-A



SECTION B-B

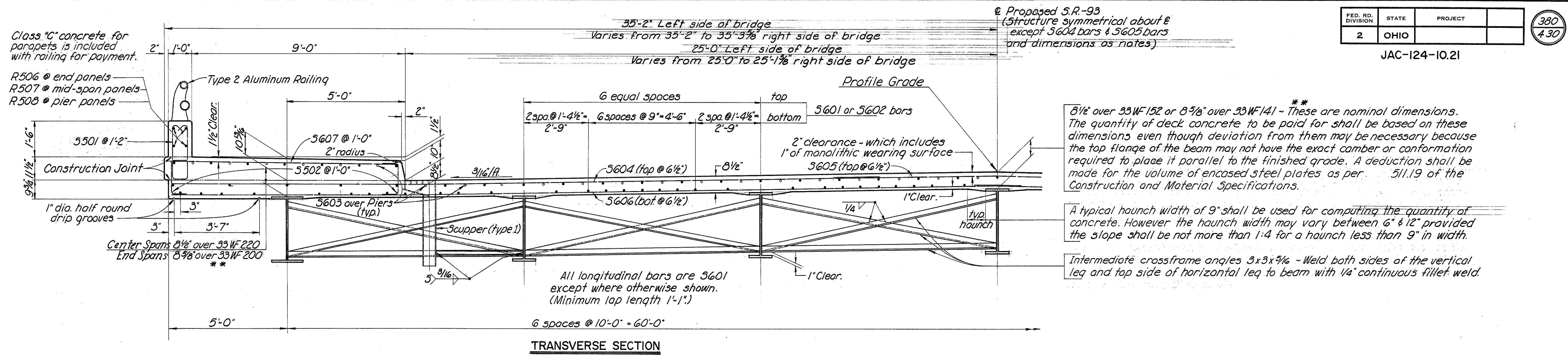


SECTION C-C

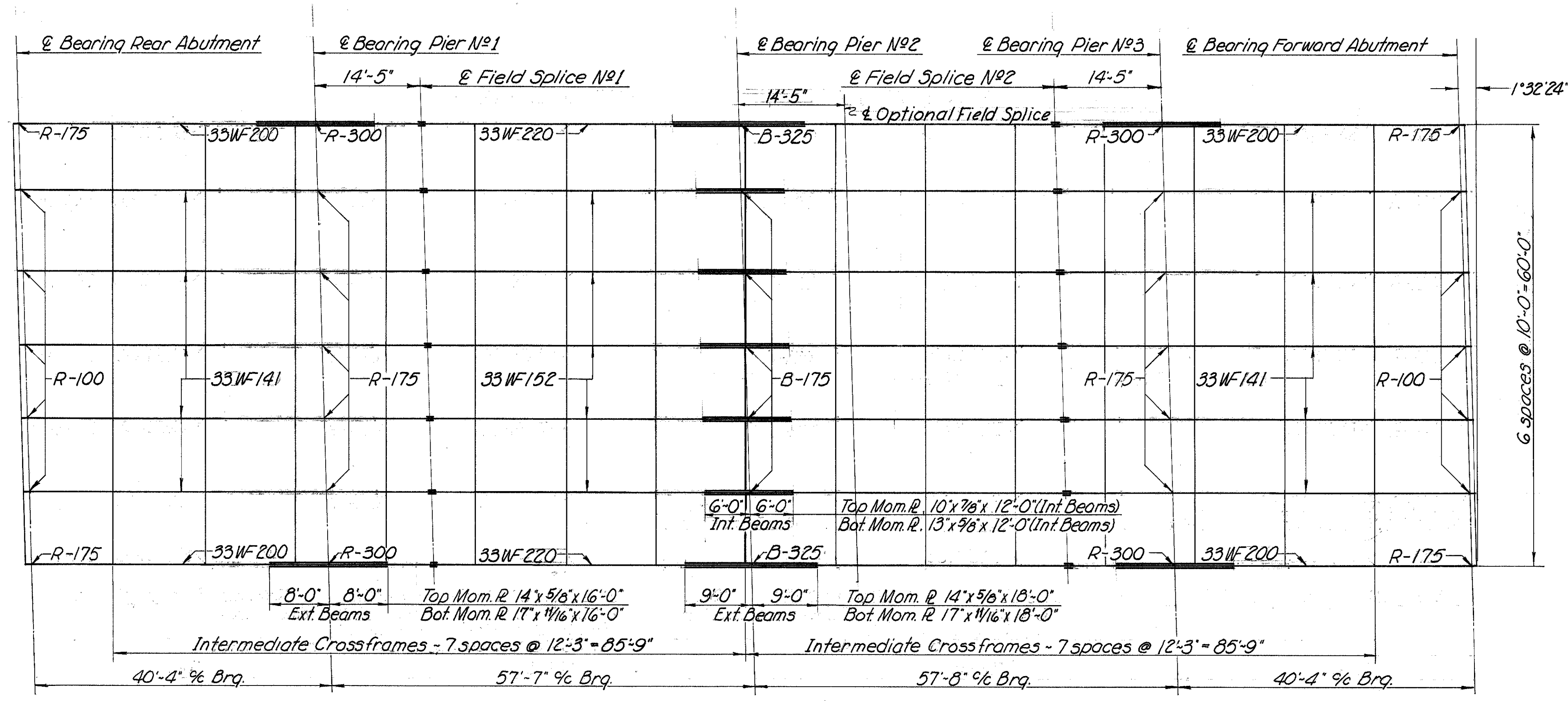
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BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor bar holes at Pier 2 only.

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COLUMBUS, OHIO				OHIO			
PIERS							
BRIDGE No. JAC-124-1084 under SR-93							
JACKSON COUNTY				SR-124			
DESIGNED H.M.	DRAWN F.D.S.	TRACED	CHECKED S.Y.	REVIEWED J.F.	DATE 8/22/68	REVISED	



TRANSVERSE SECTION



FRAMING PLAN

Note: The splicing of the beams require a 1/8" fill plate on the outside of the flanges of the smaller beam in addition to those given in the Standard Bridge Drawing SD-1-65, sheet 3 of 3.

End dams shall conform to standard drawing SD-1-65 for CF 2000 loading. Delete Item 828 joint sealers and bond breaker.

FED. RD. DIVISION	STATE	PROJECT	380 430
2	OHIO		

JAC-124-10.21

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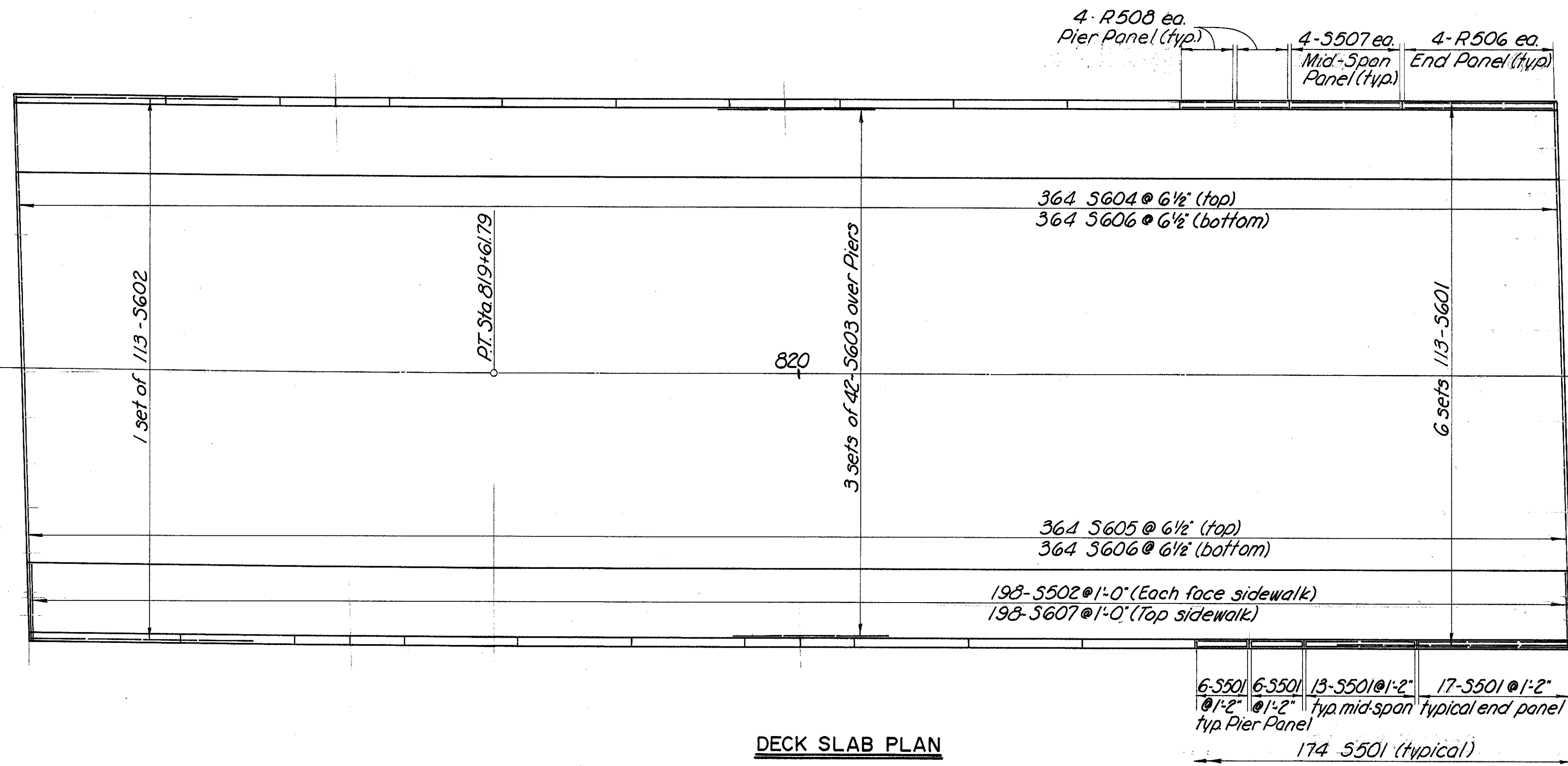
6/8

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Consulting Engineers
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS (1)
BRIDGE NO. JAC-124-1084
under SR-93

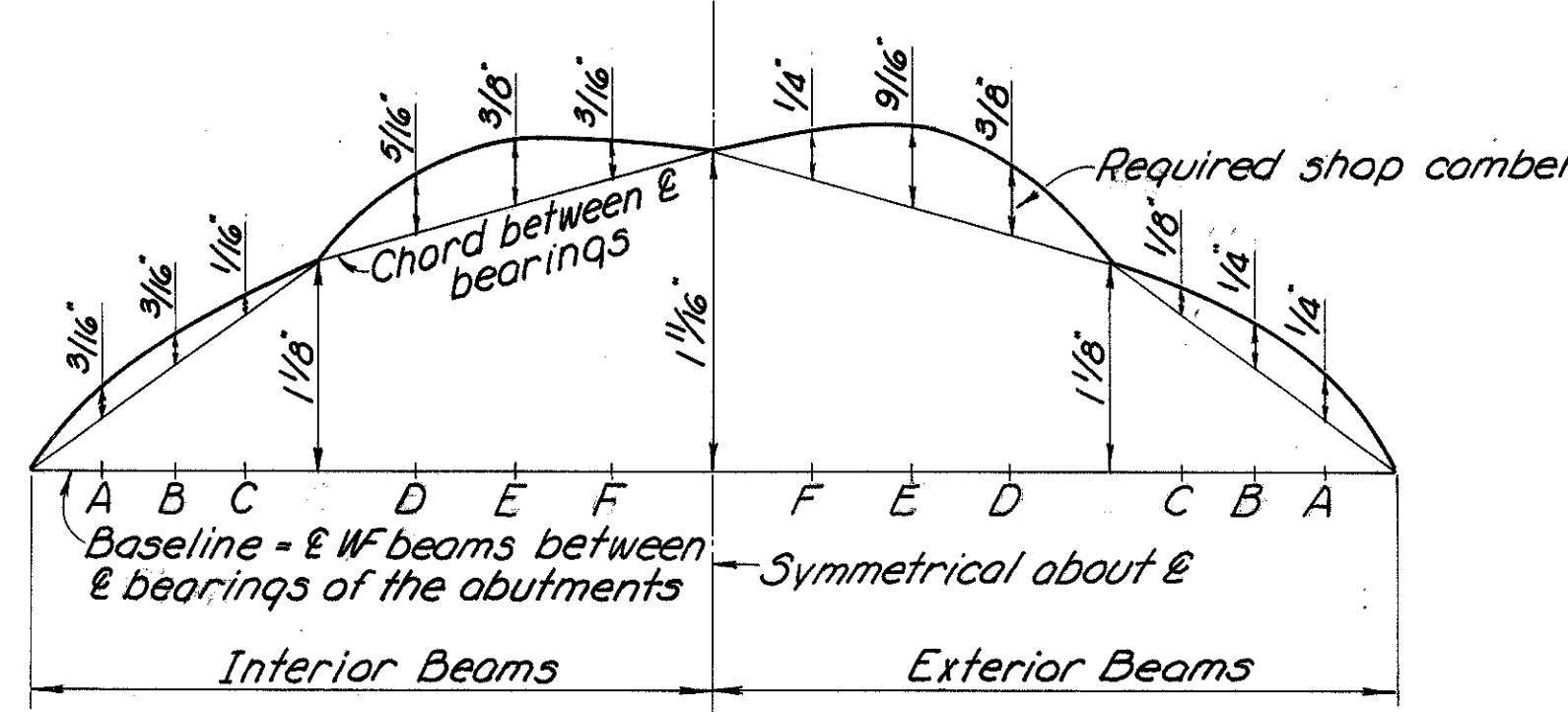
JACKSON COUNTY SR-124

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	KA		S.Y.	JF	8/22/68	

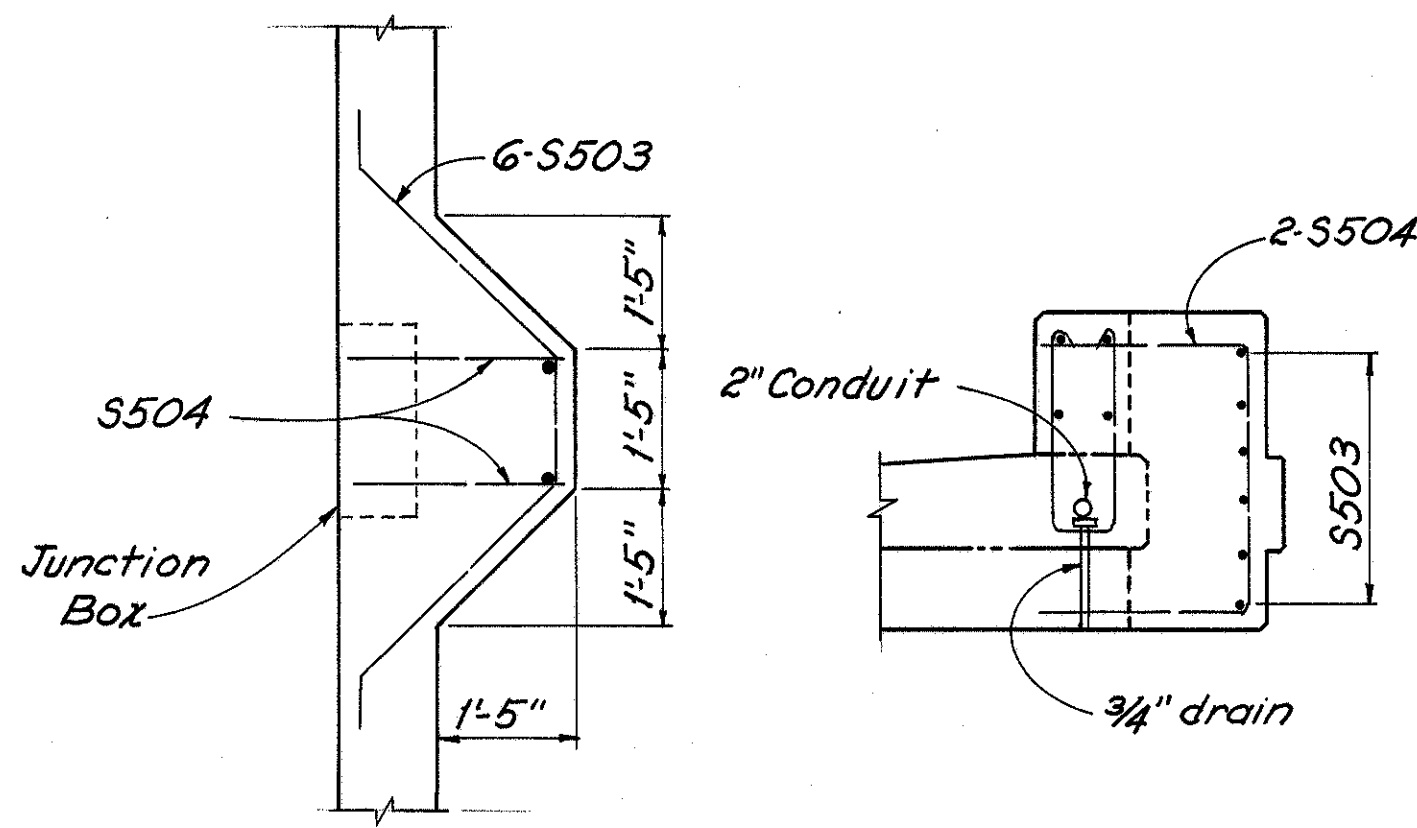


DECK SLAB PLAN

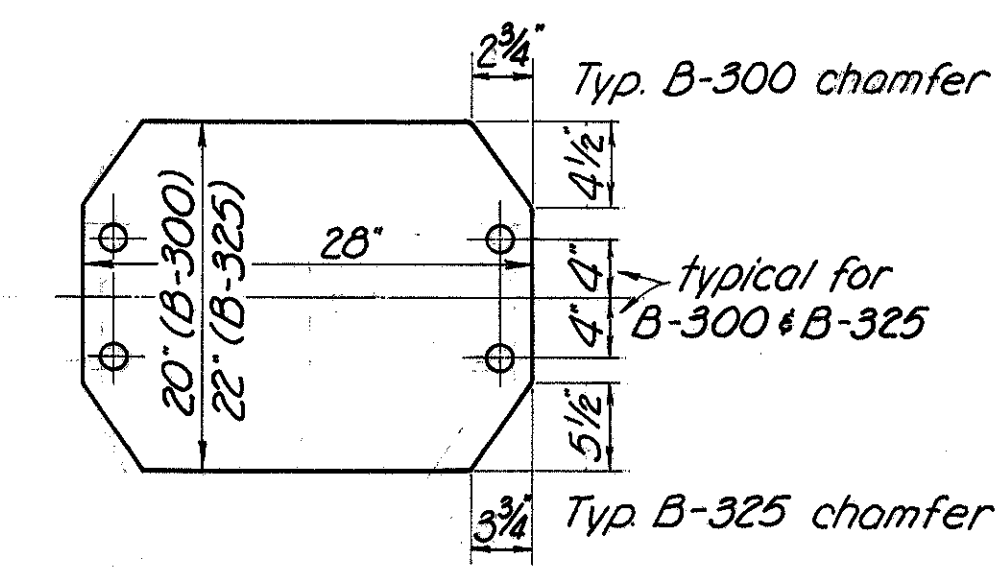
DEFLECTION & CAMBER TABLE						
	Spans No 1 & No 4			Spans No 2 & No 3		
INTERIOR BEAMS	1/4 pt. A	1/2 pt. B	3/4 pt. C	1/4 pt. D	1/2 pt. E	3/4 pt. F
Deflection due to weight of steel	0"	0"	0"	0"	0"	0"
Deflection due to remaining dead load	1/8"	1/8"	0"	3/16"	1/4"	1/16"
Adjustment required for vertical curve	1/16"	1/16"	1/16"	1/8"	1/8"	1/8"
Required shop camber	3/16"	3/16"	1/16"	5/16"	3/8"	3/16"
EXTERIOR BEAMS						
Deflection due to weight of steel	0"	0"	0"	0"	0"	0"
Deflection due to remaining dead load	3/16"	3/16"	1/16"	1/4"	7/16"	1/8"
Adjustment required for vertical curve	1/16"	1/16"	1/16"	1/8"	1/8"	1/8"
Required shop camber	1/4"	1/4"	1/8"	3/8"	9/16"	1/4"



LAYOUT DIAGRAM



TYPICAL LIGHT POLE SUPPORT
For details not shown see Std. Drwg. HL-4



BASE PLATE FOR BOLSTER B-300 & B-325
See RB-1-55 (rev. 2-2-59) & table below for other Bolster dimension.

Bolster B-325 Dimensions (inches)									
A	B	C	E	H	K	L	R	T	Y
4	22	3 3/4	1/8	19 1/8	14	28	12 3/4	3 1/4	11 3/16

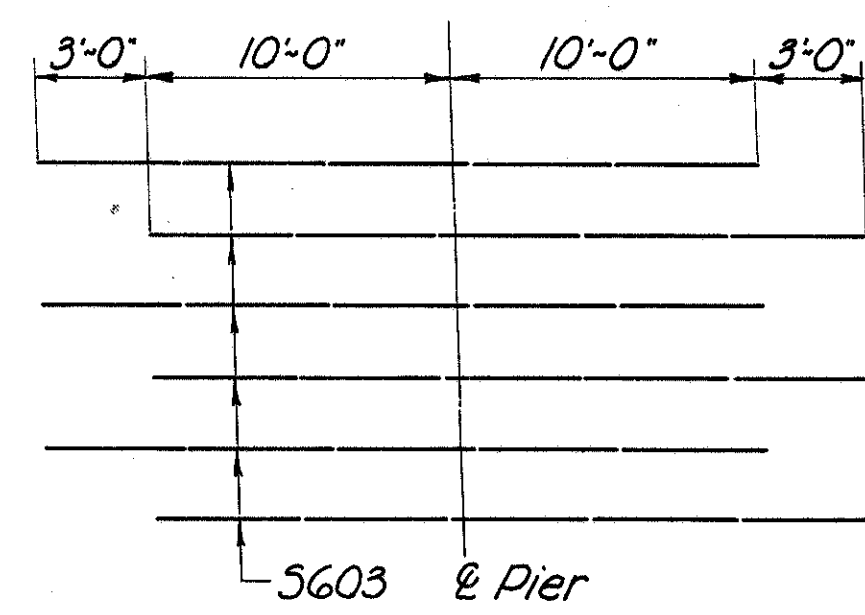


DIAGRAM SHOWING STAGGER
S-603 BARS OVER PIERS

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FRANKLIN ENGINEERING ASSOCIATES LIMITED		COLUMBUS, OHIO	
SUPERSTRUCTURE DETAILS (2)			
BRIDGE NO. JAC-124-1084 under SR-93			
JACKSON COUNTY		SR-124	
DESIGNED	DRAWN	TRACED	CHECKED
MM		1/4	S.Y.
			5/4
			9/2/68