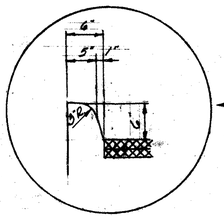
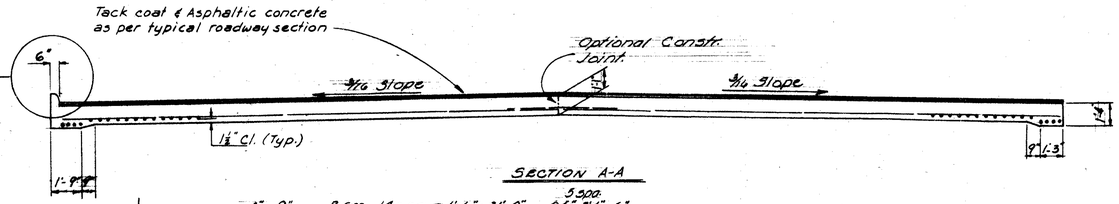
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

233
291

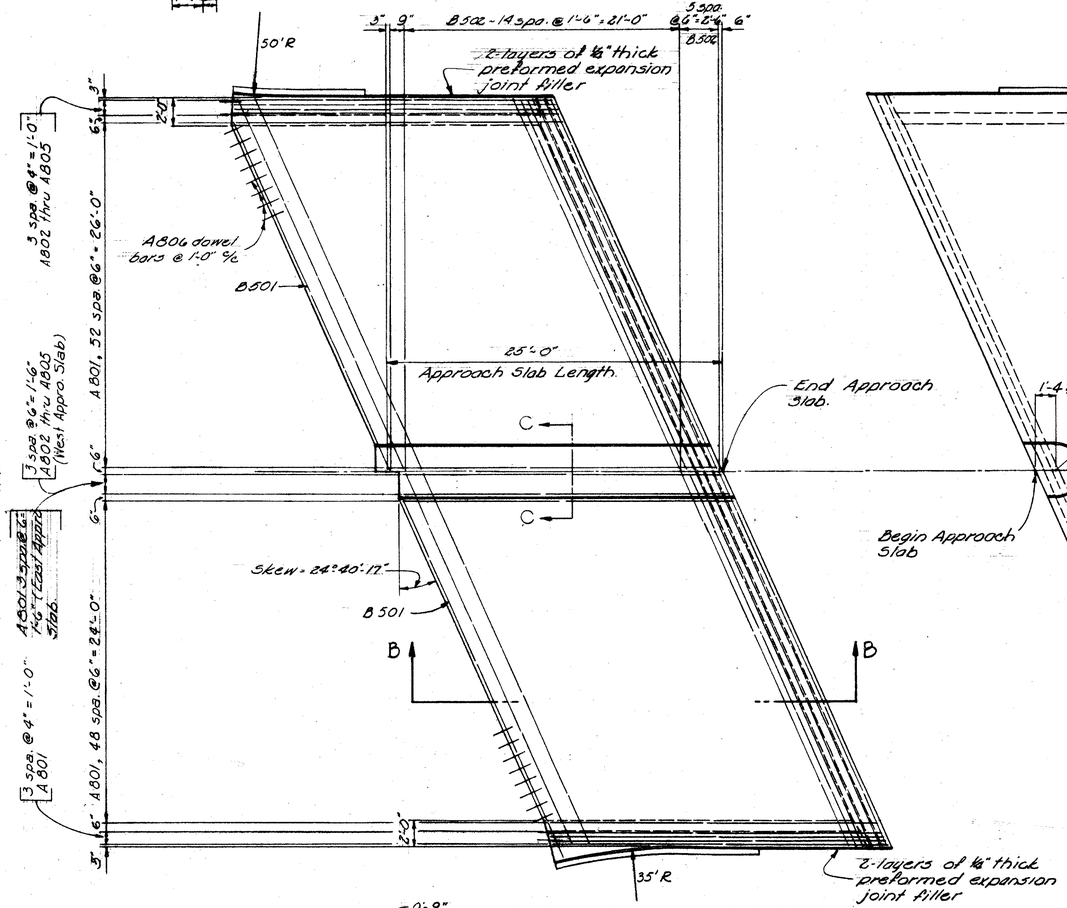
FRANKLIN COUNTY
FRA-1-25.33

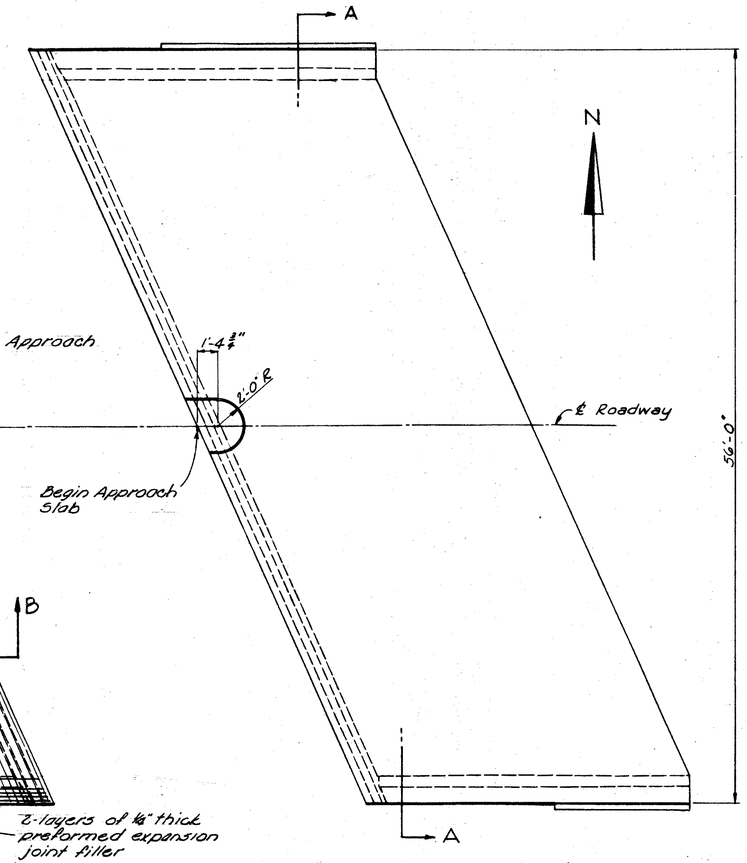


CURB DETAIL



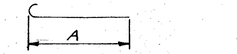
SECTION A-A





East Appro. Slab reinforcement same as West Appro. Slab, except as noted.

REINFORCING STEEL LIST			
Mark	No.	Length	"A"
A801	217	25-9	24-8
A802	3	25-7	24-6
A803	3	25-5	24-4
A804	3	25-3	24-2
A805	3	25-1	24-0
A806	126	1-6	
B501	4	28-5	
B502	80	30-5	
B503	41	3-6	



Typical for all "A" bars.
All "B" bars are straight.

NOTES

1- Preformed Expansion Joint Filler at the edges of the approach slab shall be included with the approach slab for payment.

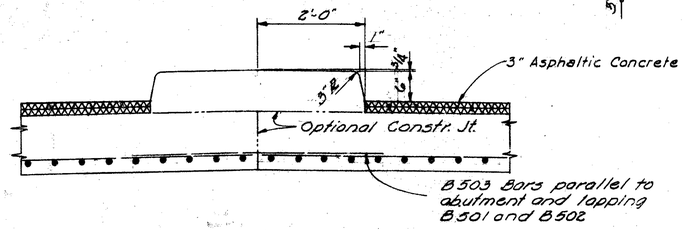
2- Concrete shall be class "C"

3- I.22 the same thickness as on the approach roadway, shall be used under the entire area of the approach slab.

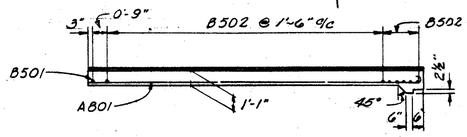
4- Reinforcing Steel listed is for both Appro. Slabs

5- For location of curb radii, see Roadway Plans

6 - Tack Coat & Asphaltic Concr. are included with Appro. Slab for payment.



SECTION C-C



SECTION B-B

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

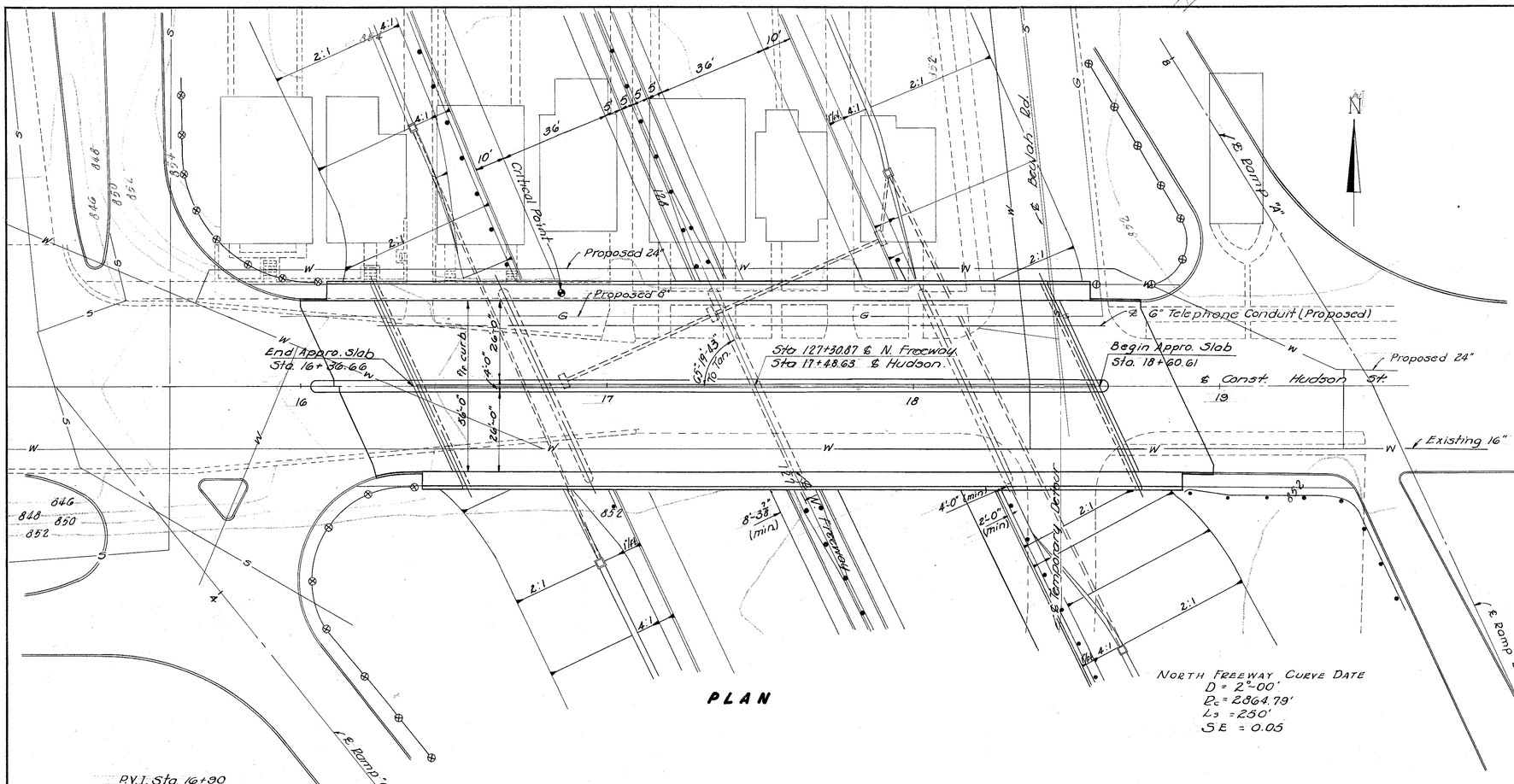
APPROACH SLAB DETAILS
BRIDGE No. FRA-1-2563
N. FREEWAY UNDER HUDSON ST.
FRANKLIN COUNTY
STA - 127+30.87

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RRM	BDB		GETTIN	TLU	3-2-58	

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

240
291

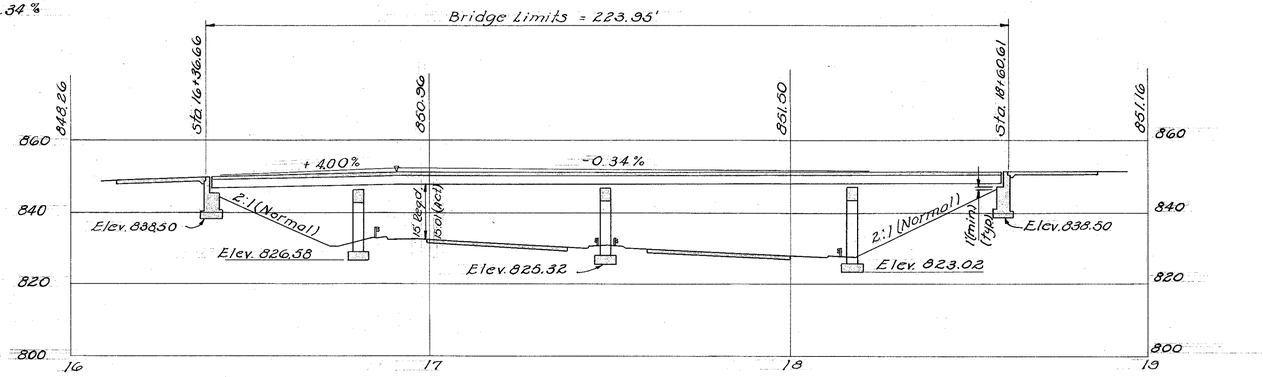
FRANKLIN COUNTY
FRA-1-25.33



PLAN

NORTH FREEWAY CURVE DATE
D = 2°-00'
R_c = 2864.79'
L_s = 250'
SE = 0.05

P.V.I. Sta. 16+90
200' V.C.
Elev. 861.87
Corr. 1.09'
P.G. Elev. 850.78
G_1 = +4.00% G_2 = -0.34 %



PROFILE ON ℄

PROPOSED STRUCTURE

Type: Continuous steel beam with reinforced concrete deck and substructure
Spans: 41'-0", two @ 68'-6" & 41'-0" ℄ bearings
Roadway: 56'-0" F-F, 5'-2" sidewalks with 2'-0" median, concrete parapets and aluminum railing
Loading: C.F.-2000 (Adequate for A.A.S.H.O. Alternate loading)
Wearing Surface: 2½" Asphaltic Concrete.
Skew: 24° 40'-17" Right Forward
Alignment: Tangent
Approach Slabs: 25' long, See Sheet No. 233

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

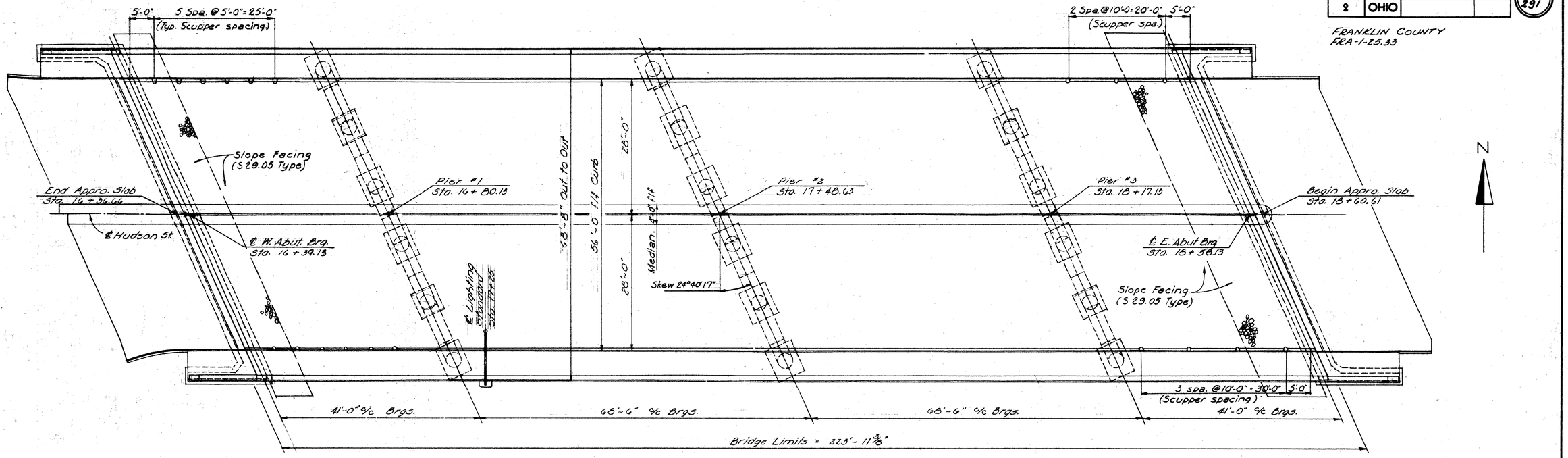
SITE PLAN
BRIDGE NO. FRA-1-2563
N. FREEWAY UNDER HUDSON ST.
FRANKLIN COUNTY
STA. 127 + 30.87

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JO'E	JO'E	EDA		TLU	9-2-58	

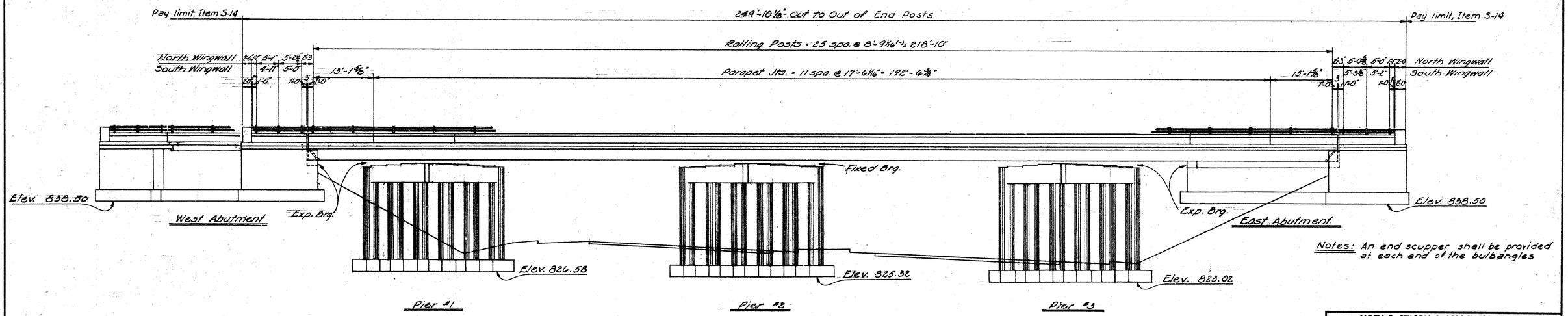
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

241
291

FRANKLIN COUNTY
FRA-I-25.33



PLAN



GENERAL ELEVATION

Notes: An end scupper shall be provided at each end of the bulbangles

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

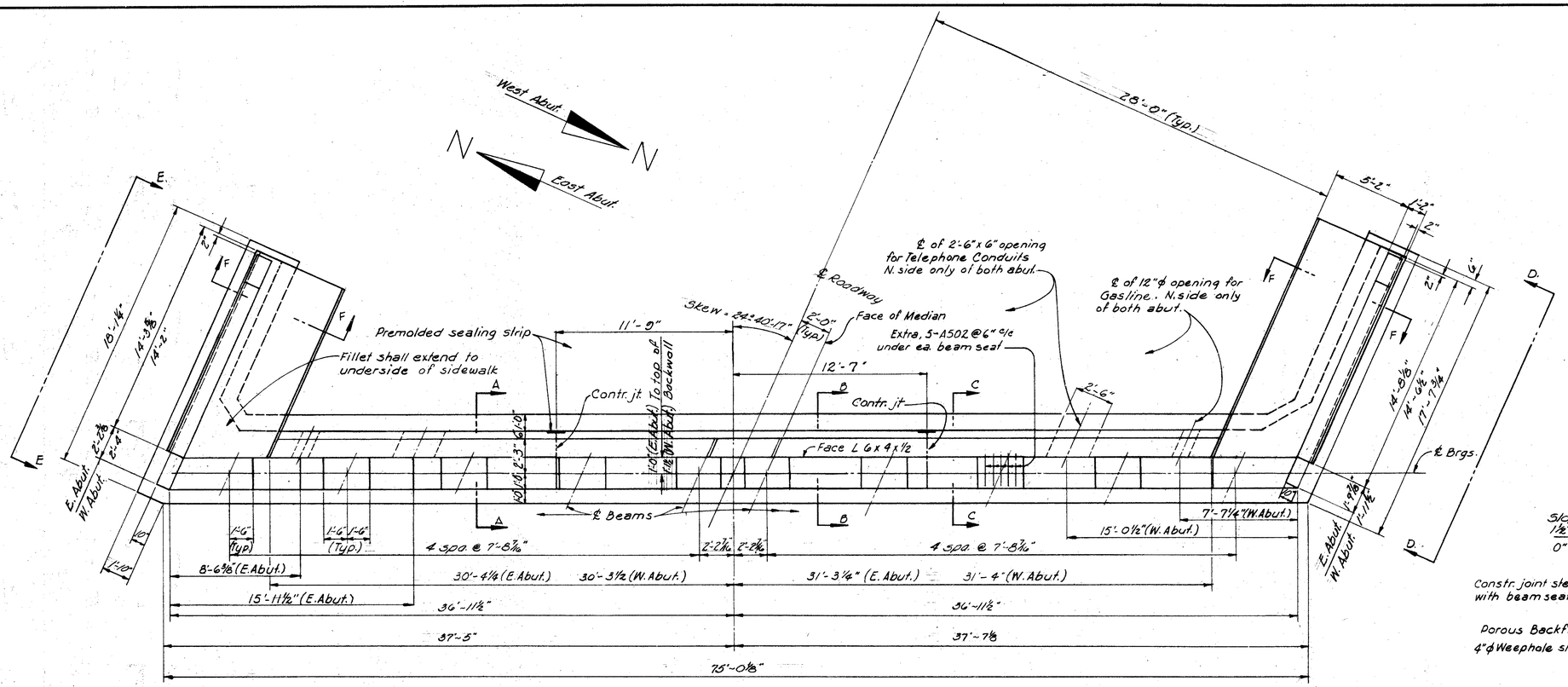
GENERAL PLAN & ELEVATION
BRIDGE NO. FRA-I-2563
N. FREEWAY UNDER HUDSON STREET
FRANKLIN COUNTY
STA - 127 + 30.87

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RRM	BDB		BETTIN	TLU	9-2-58	

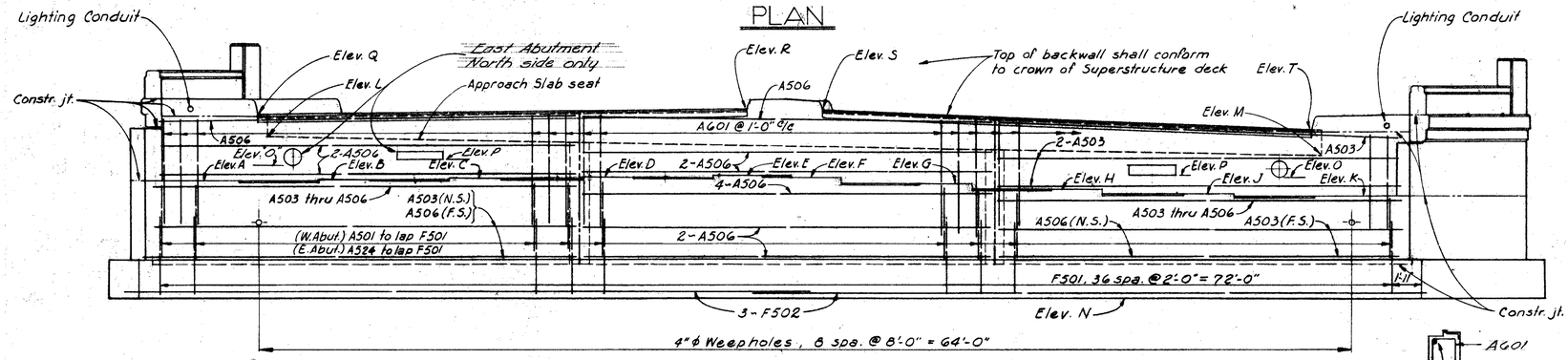
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

242
291

FRANKLIN COUNTY
FRA-1-25.93



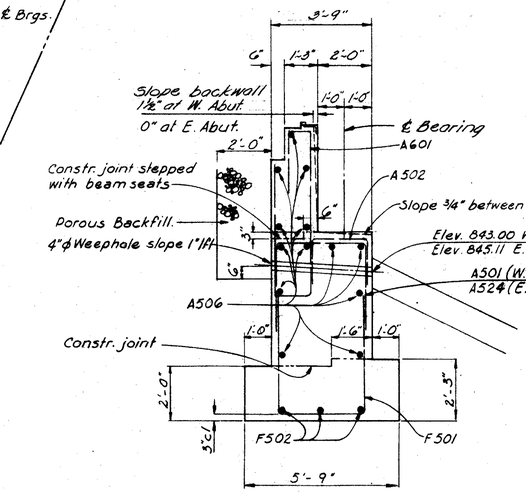
PLAN



NOTE: Elevations Q, R, S. and T are at top of 2" Edge Bar

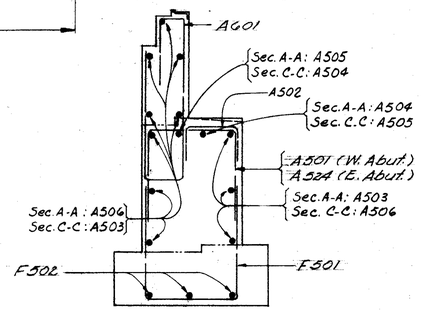
ELEVATION.
(Railing not shown)

	ELEVATIONS																		
Location	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T
W. Abutment	845.31	845.33	845.36	845.37	845.39	845.34	845.13	844.92	844.71	844.50	847.85	847.08	838.50	845.89	846.09	849.45	849.53	849.48	848.69
E. Abutment	846.70	846.80	846.90	846.99	847.09	847.09	846.97	846.85	846.73	846.61	849.31	849.23	838.50	848.06	848.15	850.90	851.27	851.26	850.81



SECTION B-B

NOTE: For additional notes and details see sheet 243.



SECTIONS A-A & C-C (For dimensions see sec B-B)

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

ABUTMENT DETAILS
BRIDGE NO. FRA-1-2563
N. FREEWAY UNDER HUDSON STREET
FRANKLIN COUNTY
STA- 127 + 30.87

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
REM	BDB		GETTIN	TLU	9-2-58	

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

243
291

FRANKLIN COUNTY
FRA-I-25.33

NOTES:

Porous Backfill as shown shall be placed between the inside faces of wingwalls and shall extend vertically to the underside of the I-22 or sidewalk. Excavation therefore, in excess of that required for construction of the abutment, shall be considered as paid for in the bid price per cu. yd paid for Porous Backfill.

Concrete Parapets & End Posts are included with Item S-14 for payment.

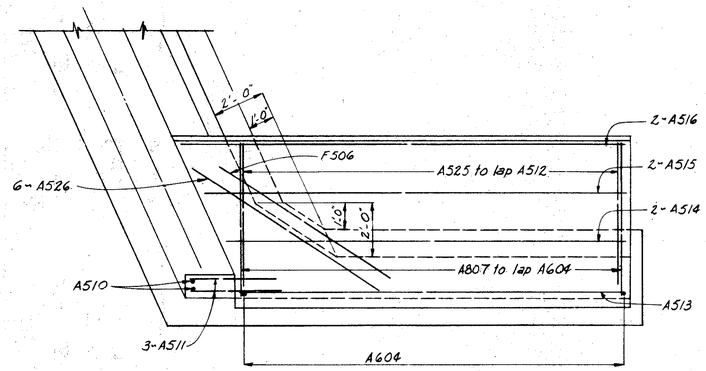
Reinforcing Steel: N.S. indicates Near Side
F.S. indicates Far Side

Contraction Joints shall be waterproofed by installing Premolded Sealing Strip in a 13" x 3/4" recess extending from the top of the footing to the Appro. Slab seat.
A joint shall be provided in the abutment portion of the end dam at the contr. joint

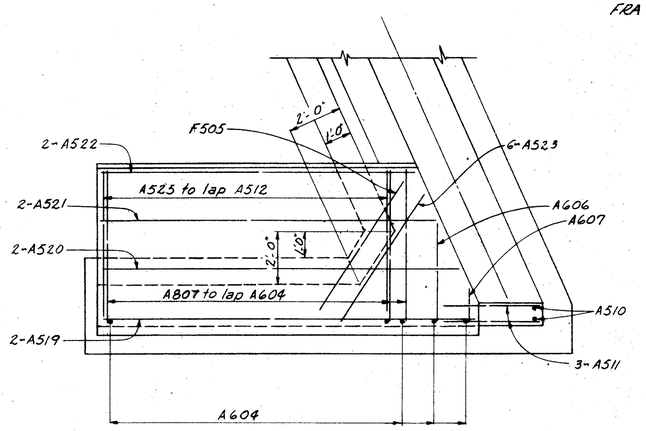
Median: Shape of median on abutment shall match shape of median on approch slab.

	W. Abutment		E. Abutment	
	N. side	S. side	N. side	S. side
A	847.62	848.51	849.84	849.74
B	847.63	848.53	849.92	849.81
C	847.13	848.14	849.87	849.76

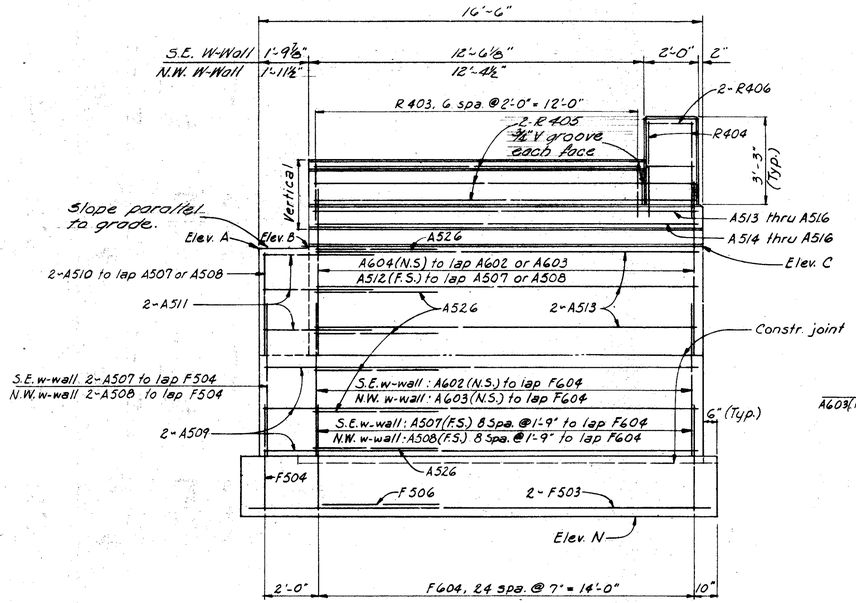
For elev. N see sheet 242



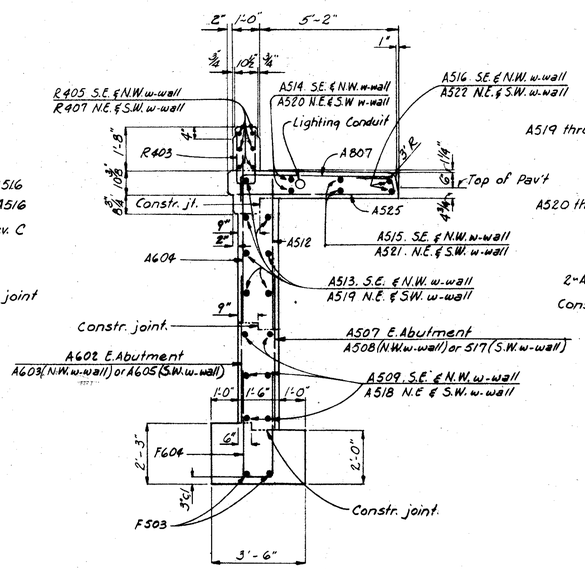
PLAN VIEW D-D
(Parapet not shown)



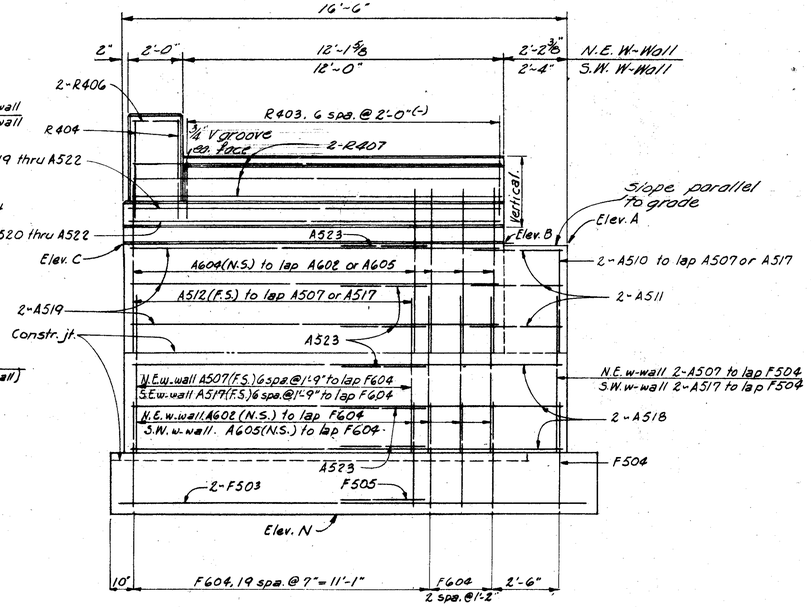
PLAN VIEW E-E
(Parapet not shown)



VIEW D-D
(S.E. & N.W. wingwalls)



SECTION F-F



VIEW E-E
(N.E. & S.W. wingwalls)

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

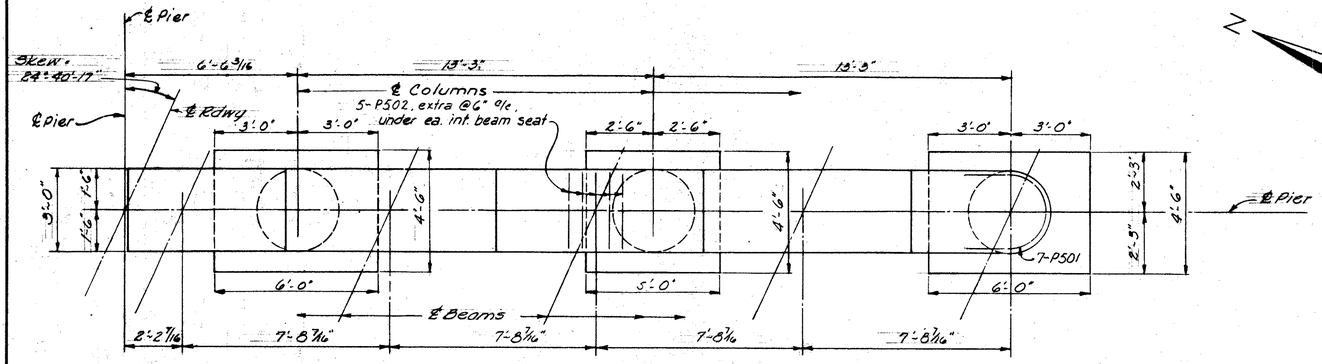
ABUTMENT DETAILS
BRIDGE NO. FRA-I-25G3
N. FREEWAY UNDER HUDSON ST.
FRANKLIN COUNTY
STA-127+30.87

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RRM	BDB		BETTIN	TLU	9-2-58	

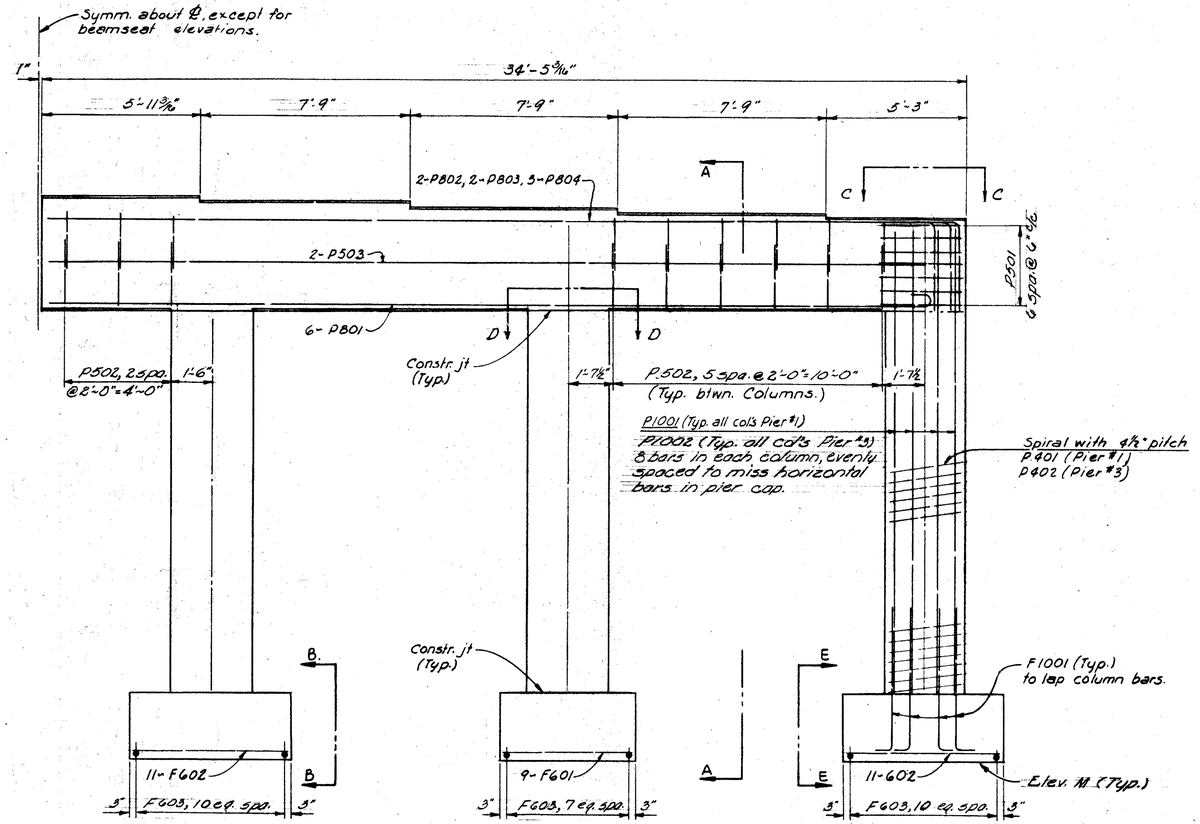
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

244
291

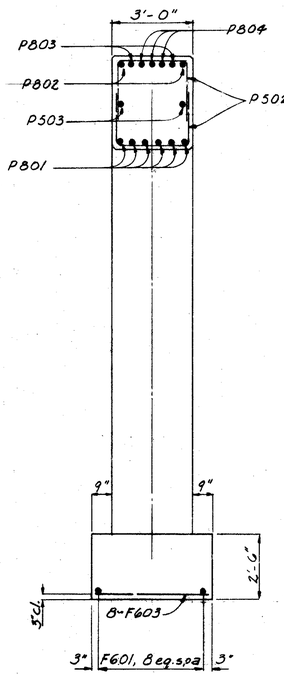
FRANKLIN COUNTY
FRA-1-25.33



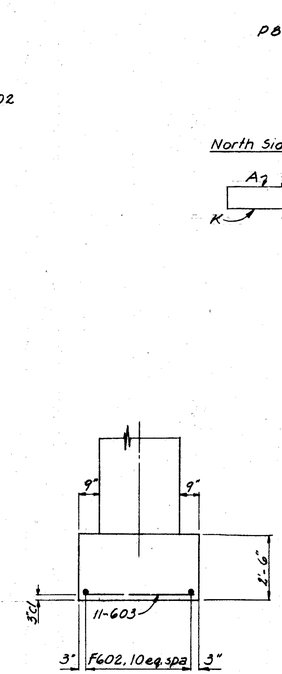
PLAN



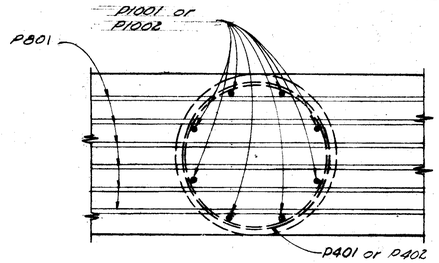
ELEVATION



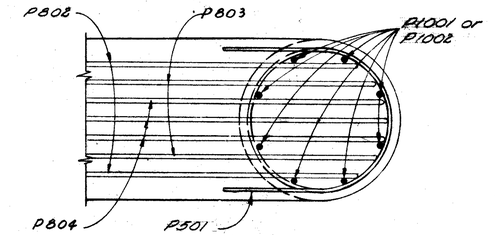
SECTION A-A



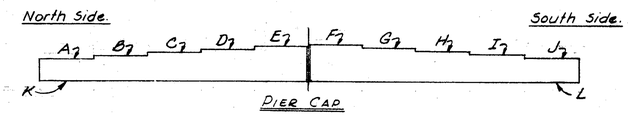
VIEWS B-B & E-E



SECTION D-D



VIEW C-C



PIER CAP

ELEVATIONS

	PIER #1	PIER #3
A	845.28	846.47
B	845.46	846.57
C	845.64	846.67
D	845.82	846.77
E	846.00	846.87
F	846.04	846.86
G	845.99	846.74
H	845.95	846.62
I	845.89	846.50
J	845.84	846.38
K	841.78	842.88
L	841.78	842.88
M	826.58	823.02

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

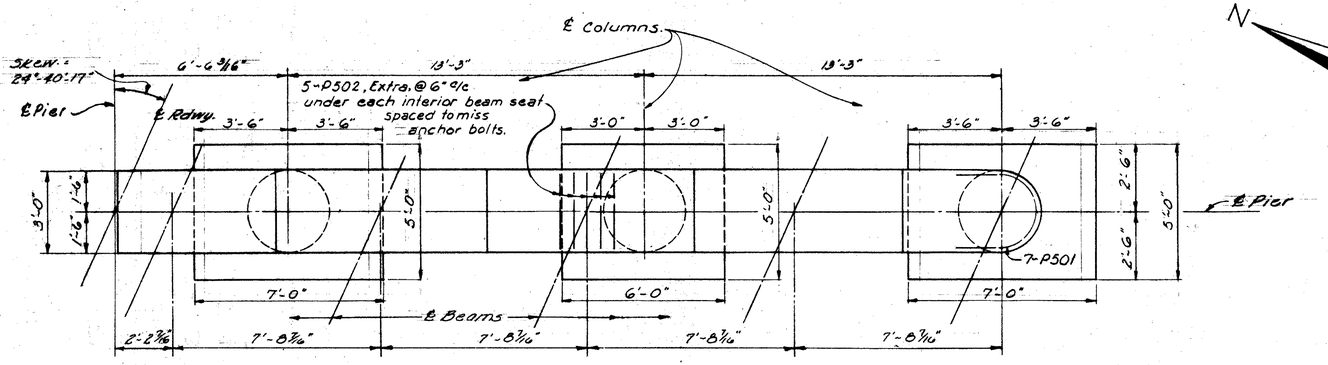
PIERS 1 & 3
BRIDGE No. FRA-1-2563
N. FREEWAY UNDER HUDSON ST
FRANKLIN COUNTY
STA-127+30.87

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RRM	BDB		BETTIN	TLU	9-2-58	

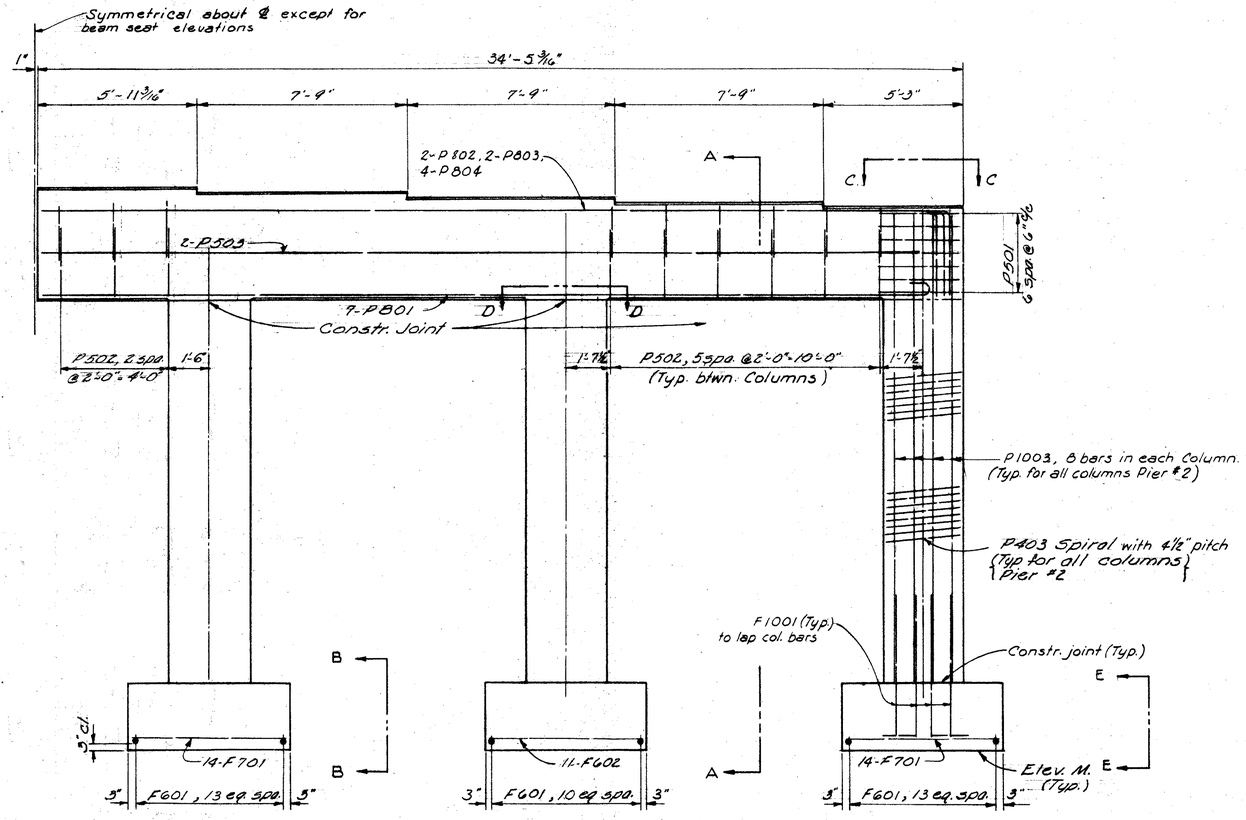
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

245
291

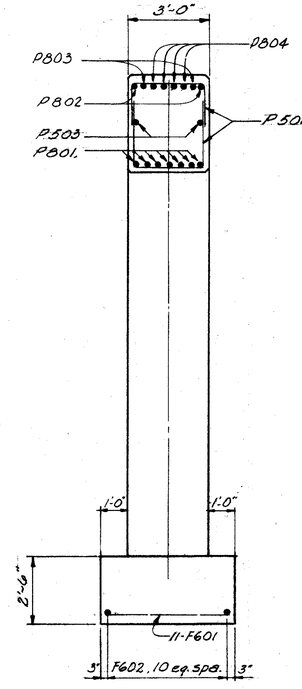
FRANKLIN COUNTY
FRA-1-25.93



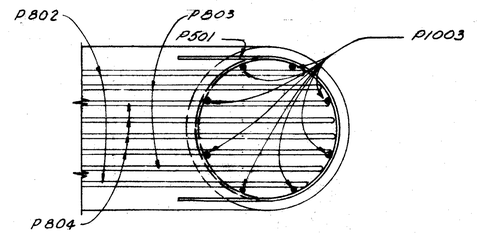
PLAN



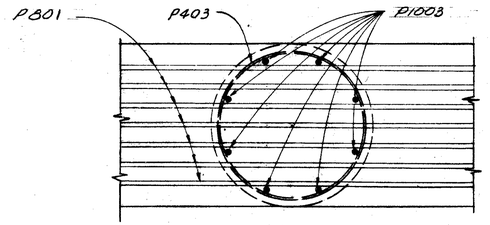
ELEVATION



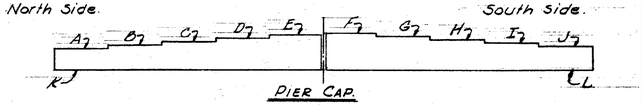
SECTION A-A



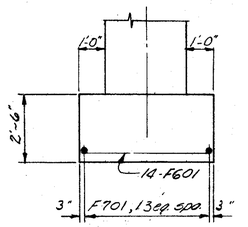
VIEW C-C



SECTION D-D



ELEVATIONS	
	PIER #2
A	846.23
B	846.37
C	846.50
D	846.63
E	846.76
F	846.77
G	846.68
H	846.58
I	846.49
J	846.39
K	842.73
L	842.73
M	823.32



VIEW B-B & E-E

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

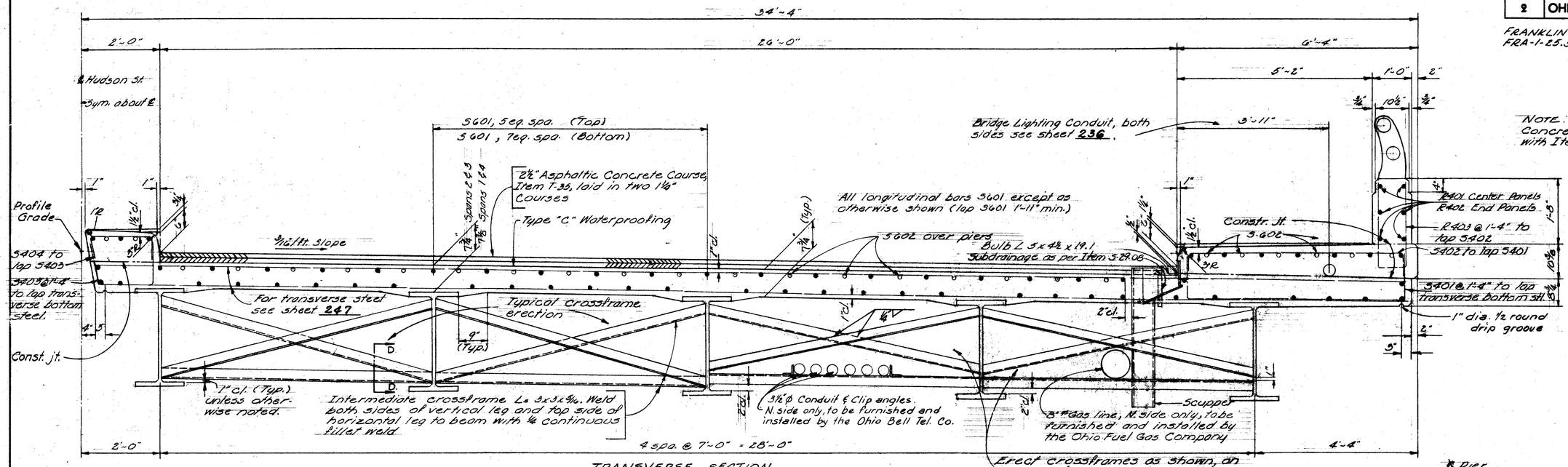
PIER #2
BRIDGE NO. FRA-1-2563
N. FREEWAY UNDER HUDSON ST.
FRANKLIN COUNTY
STA- 127+30.87

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RRM	BDB		GETTIN	TLO	9-2-58	

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

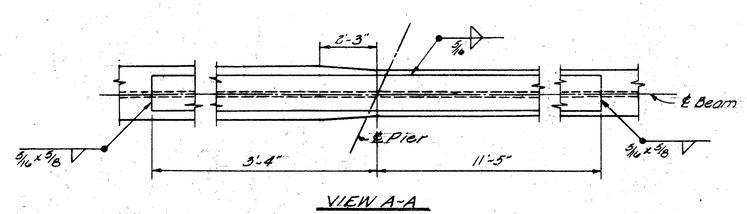
246
291

FRANKLIN COUNTY
FRA-I-25.93

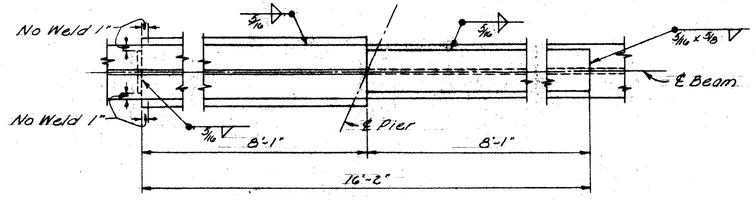


NOTE:
Concrete in parapet is included with Item 5.14 for payment.

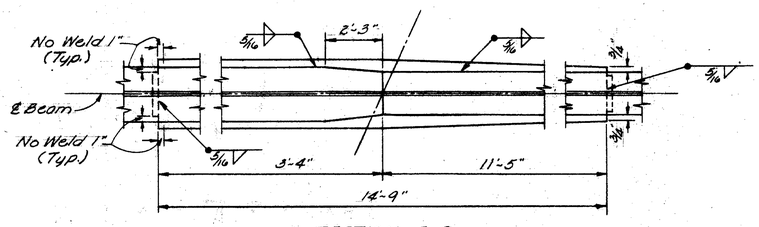
TRANSVERSE SECTION



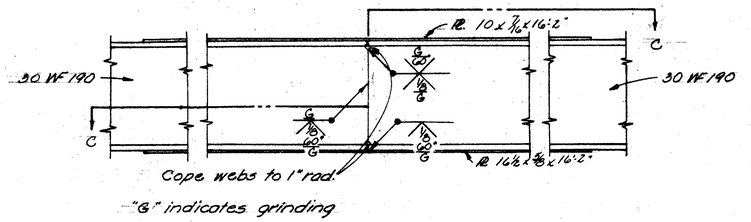
VIEW A-A



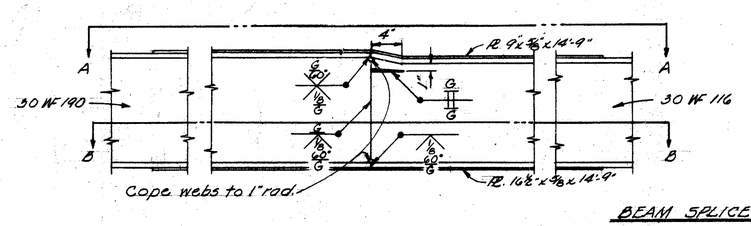
SECTION C-C



SECTION B-B



PIER #2

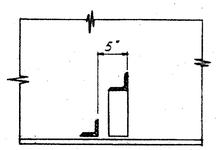


"G" indicates grinding

BEAM SPLICE DETAILS

PIERS 1 & 3

DEFLECTION and CAMBER	SPAN 1		SPAN 2 & 3		SPAN 4	
	Ext.	Int.	Ext.	Int.	Ext.	Int.
Due to weight of beam	0	0	1/8	1/8	0	0
Due to remaining D.L.	1/8	1/16	5/8	3/8	1/8	1/16
Due to vertical curve	9/16	9/16	1 9/16	1 9/16	0	0
Total	1 1/16	9/8	2 5/16	2 1/16	1/8	1/16
Reg Shop Camber	0	0	2	2	0	0



SECTION D-D

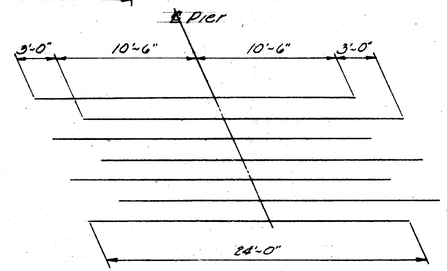


DIAGRAM SHOWING STAGGER OF 5602 BARS OVER PIERS

BEAM SPLICE PROCEDURE

1. Raise ends of beams 2 1/2" at Pier #3
2. Butt weld beam flanges and webs at Pier #2 using the following sequence. First make one pass on the flanges, then one on the web, then repeat until completed
3. Weld top and bottom splice plates at Pier #2
4. Lower ends of beams to final positions.
5. Make splices at Piers #1 and #3 in the same manner as at Pier #2, with the beams set in their normal position

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

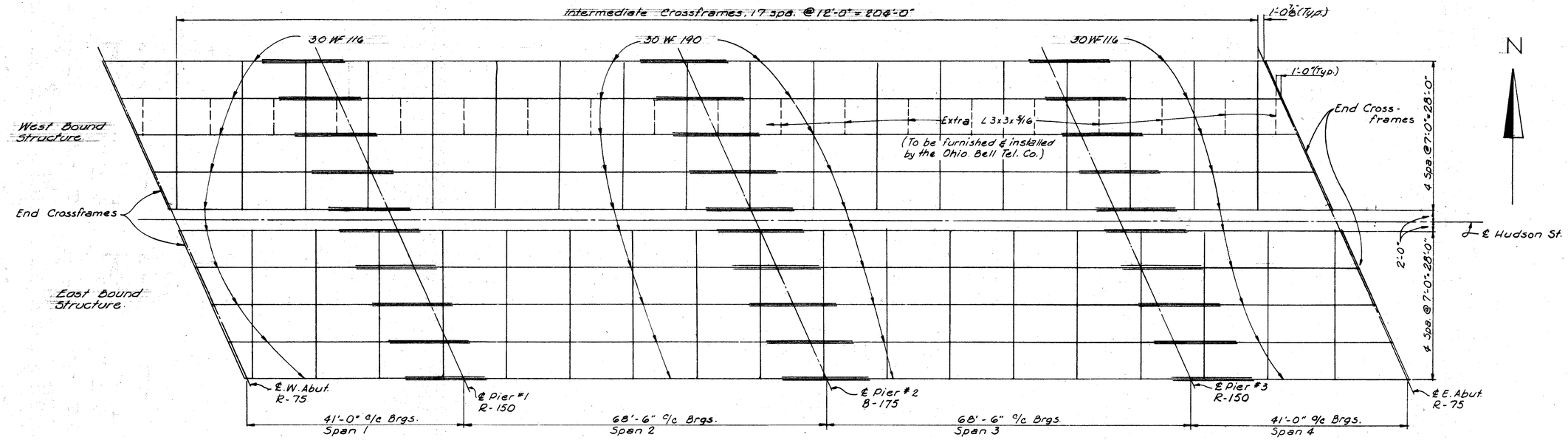
SUPERSTRUCTURE DETAILS
BRIDGE NO. FRA-I-2563
N. FREEWAY UNDER HUDSON STREET
FRANKLIN COUNTY
STA- 127 +30.87

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.R.M.	B.D.B.		GETTIN	TLV	9-2-58	

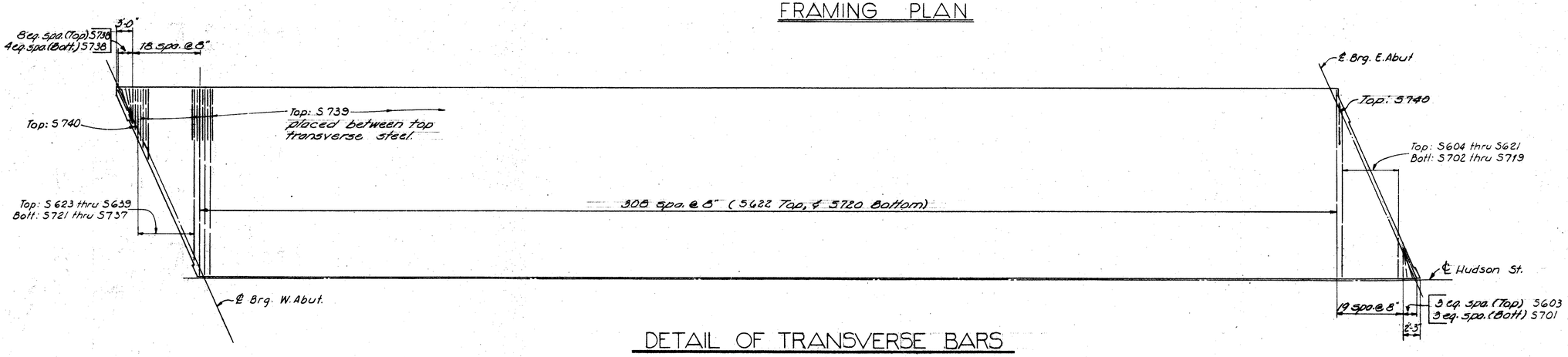
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

247
291

FRANKLIN COUNTY
FRA-I-25.33



FRAMING PLAN



DETAIL OF TRANSVERSE BARS

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS
BRIDGE NO. FRA-I-2563
N. FREEWAY UNDER HUDSON ST.
FRANKLIN COUNTY
STA-127+30.87

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RRM	BDB		BETTIN	TLU	9-258	

FED. RD DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

248
291

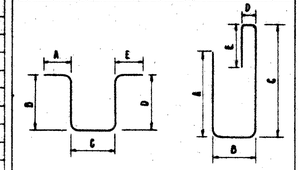
FRANKLIN COUNTY
FRA-1-25.93

REINFORCING STEEL LIST

Mark	Nº	Length	Weight	Type	"A"	"B"	"C"	"D"	"E"	Shape
				SUPERSTRUCTURE						
S601	744	38-3	42,744							st
S602	156	84-0	5623							st
S603	8	9-10	46							st
S604	2	5-4								st
thru	↓	Varies by	976							
		1-6								
S621	2	30-9								st
S622	618	33-7	31,173							st
S623	2	31-6								st
thru	↓	Varies by	1002							
		1-5½								
S639	2	7-9								st
S701	8	9-10	63							st
S702	2	5-4								st
thru	↓	Varies by	1328							
		1-6								
S719	2	30-9								st
S720	618	33-7	42,422							st
S721	2	31-6								st
thru	↓	Varies by	1364							
		1-5½								
S737	2	7-9								st
S738	28	6-3	360							
S739	630	8-1	10,739							st
S740	12	7-0	57							st
S401	330	7-9	1708	1		1-0	5-9	1-2		bt
S402	330	6-9	1488	1		0-6	5-9	0-8		bt
S403	330	3-3	716	6	0-3	1-1	1-3	1-1		bt
S404	930	2-4	514	4	0-1	0-6	1-6	0-6		bt
R401	132	17-2	*							st
R402	24	13-9	*							st
R403	330	4-6	992	1		2-0	0-8	2-0		bt
				PIERS						
P501	42	7-4	321	8	1-4	1-7	2-8			bt
P502	300	7-3	2269	1		2-5	2-8	2-5		bt
P503	12	32-9	410							st
P801	38	34-1	3458	3	33-0					bt
P802	12	36-5	1167	2	33-5	3-3				bt
P803	12	36-8	1175	2	33-8	3-3				bt
P804	20	36-10	1967	2	33-10	3-3				bt
P1001	48	15-11	3288							st
P1002	48	20-7	4251							st
P1003	48	18-3	3769							st
										st
F601	114	4-8	999							st
F602	110	5-8	936							st
F603	120	8-2	751							st
F701	56	6-8	763							st
F1001	144	6-4	3924	2	5-4	1-4				bt

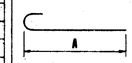
Mark	Nº	Length	Weight	Type	"A"	"D"	"C"	"D"	"E"	Shape
				ABUTMENT						
F501	74	12-0	926	1		4-5	3-5	4-5		bt
F502	12	39-0	488							st
F503	8	17-4	145							st
F504	4	7-5	31	1		3-7	0-6	3-7		bt
F505	2	6-0	13							st
F506	2	8-0	17							st
F604	96	8-8	850	1		3-11	1-2	3-11		bt
A501	37	10-0	386	1		3-5	3-5	3-5		bt
A502	100	4-11	513	1		1-7	2-0	1-7		bt
A503	22	25-3	579							st
A504	4	24-10	104							st
A505	4	24-5	102							st
A506	48	24-0	1202							st
A507	20	7-8	160							st
A508	11	5-4	61							st
A509	12	16-2	202							st
A510	8	2-11	24							st
A511	24	3-9	94							st
A512	32	4-3	142							st
A513	14	14-4	209							st
A514	4	15-9	62							st
A515	4	15-7	65							st
A516	4	16-5	68							st
A517	9	6-2	58							st
A518	12	16-0	200							st
A519	14	13-7	198							st
A520	4	13-3	55							st
A521	4	12-5	52							st
A522	4	11-7	48							st
A523	12	5-7	70							st
A524	37	13-8	527	1		5-3	3-5	5-3		bt
A525	32	7-8	256	7	5-10	0-6	0-1	1-7		bt
A526	12	8-0	100							st
A601	146	16-2	3545	2	4-11	1-5	6-6	0-10	3-2	bt
A602	47	7-9	547							st
A603	25	5-8	213							st
A604	98	5-1	718							st
A605	22	6-6	215							st
A606	2	4-9	14	1	3-6	1-5				bt
A607	2	2-9	7	1	1-1	1-5				bt
A807	90	6-9	1622	1	1-5	5-7				bt
R403	28	4-6	84	1		2-0	0-8	2-0		bt
R404	8	7-7	41	1		3-7	0-8	3-7		bt
R405	12	14-0	*							st
R406	8	1-8	*							st
R407	12	13-8	*							st
			REPLACEMENT STEEL FOR SPIRAL							
RE402	1	5-3		5	1-3½		5-3			bt
			REPLACEMENT BARS							
RE401	1	5-3								st
RE501	1	5-7								st
RE601	5	5-11								st
RE701	3	6-3								st
RE801	1	6-6								st
RE1001	1	7-2								st
			LAMP STANDARD							
S570	4	1-10	8							st
S571	3	1-2	4							st
S572	3	3-3	10	1		0-8	2-2	0-8		bt
S573	3	4-3	18	1		1-2	2-2	1-2		bt
S574	8	6-6	34							st
S575	2	2-9	6	1		0-8	1-8	0-8		bt
S576	2	3-9	8	1		1-2	1-8	1-2		bt

Bending Diagram



TYPE 1

TYPE 2



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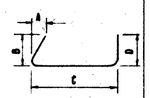

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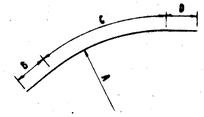
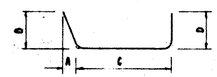
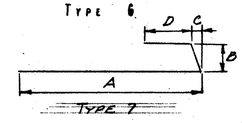


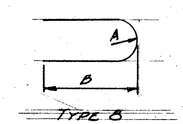
TYPE 5



TYPE 6



TYPE 7



TYPE 8

NOTE:
In the reinforcing steel bar marks, the first digit where three digits are used and the first two where four are used is the bar number which indicates the size of the bar.

SPIRALS - NOT ROLLED

Mark	Nº	Length	Core	Pitch	Turns	Spacers	Weight
P401	6	12-9	32	4½	37	24	1432
P402	6	17-5	32	4½	49	24	1905
P403	6	14-11	32	4½	43	24	1666

SPIRALS
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 IN THE STEEL LIST FOR THE SPIRAL BARS 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 ITEM S-4
1½ CLOSED COILS SHALL BE PROVIDED AT THE 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
IF REINFORCING BARS ARE FABRICATED FROM STOCK WHICH HAS PREVIOUSLY BEEN TESTED AND APPROVED BY THE OHIO HIGHWAY TESTING LABORATORY, TEST SAMPLES AS PROVIDED IN SEC. S-4.02 NEED NOT BE FURNISHED AND REPLACEMENT BARS WILL NOT BE REQUIRED.

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPERS.	GENERAL
E-2	96	Cu.Yd.	Unclassified Excavation	96			
E-2	327	Cu.Yd.	Shale Excavation	250	77		
S-1	474	Cu.Yd.	Class "C" concrete, superstructure			474	
S-1	159	Cu.Yd.	Class "C" concrete, Pier Caps & Columns		159		
S-1	188	Cu.Yd.	Class "E" concrete, Abutments above footings	188			
S-1	129	Cu.Yd.	Class "E" concrete, Footings	82	47		
S-3	1252	Sq.Yd.	Type "C" waterproofing			1252	
S-3	32	Lin.Ft.	Waterproofing, Premolded Sealing Strip	32			
S-4	192,682	Lbs.	Reinforcing Steel	15,013	34,251	143,418	
S-7	446,200	Lbs.	Structural Steel			446,200	
S-8	446,200	Lbs.	Field painting of structural steel.			446,200	
S-14	500	Lin.Ft.	Railing (Aluminum rail & supports with concrete parapets & end posts.)	58		442	
S-25	Lump	Sum	Electrical Lighting System (Standard, pullbox, conduit, & ground).				Lump
S-29	59	Cu.Yd	Porous Backfill	59			
S-29	85	Cu.Yd	Slope Facing (S-29.05 Type)				85
S-29	441	Lin.Ft.	Subdrainage for wearing surface course			441	
T-95	87	Cu.Yd	Asphaltic concrete surface course, Type C (70-85)			87	

* HORIZONTAL PARAPET REINFORCING THESE BARS ARE INCLUDED WITH THE RAILING FOR PAYMENT.

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

REINFORCING STEEL LIST AND ESTIMATED QUANTITIES
BRIDGE No FRA-1-25.93
N. FREEWAY UNDER HUDSON ST.
FRANKLIN COUNTY
STA-127 +30.87

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RRM	BDB		BETTIN	TLU	9-2-93	

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

249
291

FRANKLIN COUNTY
FRA-1-25.33

REFERENCES:

Standard Drawings:

Roadway End Dam and End Cross Frame Details	- CSB-2-56, Sheets 2 & 3 Revised 3-1-58
Gutter and Scupper Details	- CSB-2-56, Sheets 2 & 3 Revised 3-1-58
Railing Details, Type C	- AR-1-57, Revised 3-1-58
Rocker and Bolster Details	- RB-1-55, Dated 3-1-55
Supplemental Specifications	- S-114, Revised 8-1-57
Approach Slab Details	- Sheet 233
Bridge Lighting Details	- Sheet 236
Sidewalk and Median End Dam Details	- Sheet 238
Gutter and Scupper Support Detail	- Sheet 239

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 revisions thereof dated 2-21-58.

FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil sampling and soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in an abridged form in the Division Office, but the State assumes no responsibility for the accuracy thereof.

WELDED STEEL: The steel for the 36WF190 beams shall conform to ASTM Designation A-373. All other structural steel shall conform to either ASTM A-7 (as per Sec. M-7.4 (a) of the Construction and Material Specifications) or to A-373.

WELDING of structural steel shall be Class "A" except as otherwise shown. Any welds shown as field welds may, at the option of the Contractor, be made in the shop. Class "B" welding shown thus B)——

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

SLOPE FACING (S-29.05 Type) shall be provided under the structure at both abutments. The porous drain material shall be 12" thick and shall extend from the face of the abutment down to the solid shale and transversely to 3 ft. outside the edge of the superstructure.

ABUTMENT AND PIER FOOTINGS shall extend a minimum of 3 inches into solid shale or to the elevation shown, whichever is lower.

FOUNDATION BEARING PRESSURE:

Dead Load -
Abutments = .97 tons per sq. ft.

Pier #2 = 3.45 tons per sq. ft.

Piers #1 and #3 = 3.39 tons per sq. ft.

Dead Load + Vertical Live Load -
Abutments = 1.76 tons per sq. ft.

Pier #2 = 4.85 tons per sq. ft.

Piers #1 & #3 = 4.26 tons per sq. ft.

Dead + Live Load (including lateral loads) -
Pier #2 = 10.27 tons per sq. ft.

Piers #1 & #3 = 10.10 tons per sq. ft.

TEMPORARY RUN-AROUND AND APPROACHES: See Roadway plans.

TELEPHONE CONDUITS: The extra support angles and all clip angles are to be furnished and installed by the Ohio Bell Telephone Company.

GAS LINE: The 8" gas line, near the north side, is to be strapped to the horizontal leg of all cross frames. Manually operated shut-off valves are required outside the bridge limits at both ends of the bridge. Gas pipe, straps and shut-off valves are to be furnished and installed by The Ohio Fuel Gas Company.

Electrical Grounds:

A solid No. 0 gage bare copper wire electrical ground shall be embedded in the outside column on the south side of the structure at Pier No. 2. The lower end of the wire shall terminate in a 25 foot length coil placed under the footing and separated from the concrete by two layers of tar paper and the upper end shall extend sufficiently above the top of the concrete to provide for a suitable splice and extension for connection to the superstructure. The connection to the superstructure shall be a No. 6 gage, bare, stranded, tinned copper wire in the pier shaft. At the base of the lamp standards there shall be a tinned No. 6 gage copper wire brazed to one anchor bolt and the other end brazed or bolted to the outside beam flange.

Payment for electrical grounds is included in the lump sum bid for Item S-25, "Electrical Lighting System."

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

GENERAL NOTES
BRIDGE NO. FRA-1-2563
N. FREEWAY UNDER HUDSON ST.
FRANKLIN COUNTY STA. 127+30.87

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
				TLU	9/9/58	