

1. Design specifications, A.A.S.H.O. 1345, Live load H20-S16 modified loading.
2. Material & Fabrication N.Y.S. Dept. Public Works Jan. 2, 1951.
3. The Contractors attention is directed to the special notes for this structure which appear in the proposal. Particular attention should be given to the foundation note which briefly outlines the anticipated subsurface conditions at the site of the structure and which specifies certain requirements relative to construction.
4. For design purposes the assumed foundation pressure does not exceed $2\frac{1}{2}$ tons per sq. ft.
5. Construction joints other than those shown on the plans will not be permitted without permission of the Deputy Chief Engineer (Bridges)
6. The cost of furnishing and installing caulking compound, all joint materials, water stops and roofing felt shall be included in the prices bid for the various items in this Contract.
7. Concrete in piers and deck to be Item 18.
8. Concrete in the pylons shall be Item 19.
9. Concrete in abutments to be Item 20.
10. All anchor bolts shall be set with a template before pouring concrete.
11. Where steel exceeding one inch in thickness is to be welded, mild steel arc welding electrodes with covering of low-hydrogen type shall be used. The electrodes must comply with A.S.T.M. (A233) requirements for classification E6015 or E6016.
12. Concrete in pavement to be Item 47BM with 15 BA cement.
13. All indicated steel numbers are Reference Sheet Nos. & correspond to nos. shown in lower right hand corner of sheets.

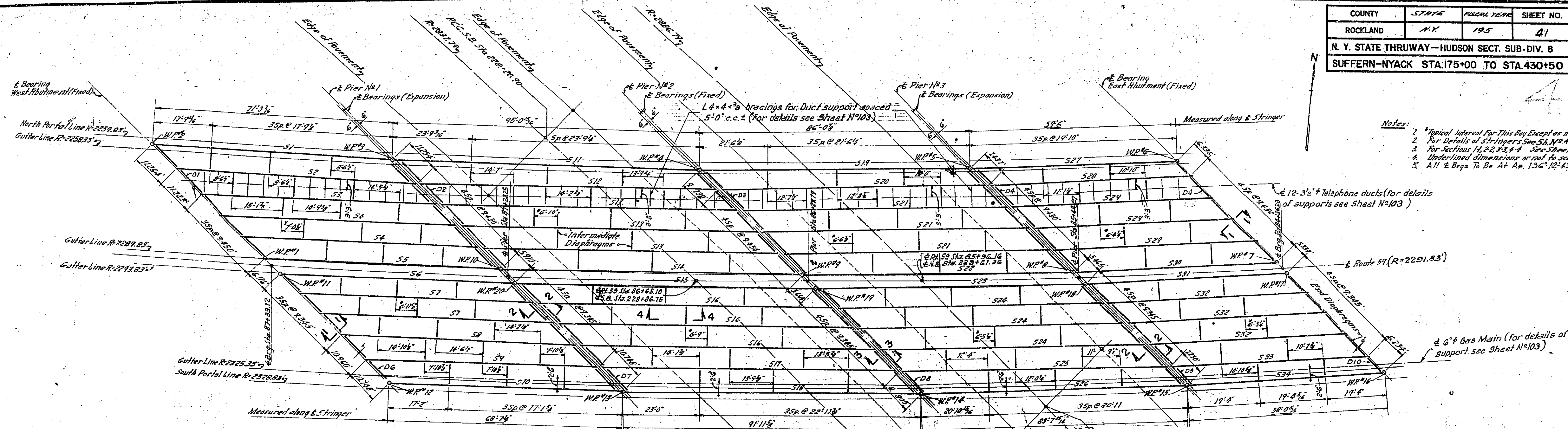
S.B. STA. 228+86.75

GENERAL PLAN AND ELEVATION

SCALE <i>As Shown</i>	DATE	DWG. NO.
PARSONS, BRINCKERHOFF, HALL & MACDONALD ENGINEERS NEW YORK		

Made By FW
Traced By R. Aranis
Checked By MR

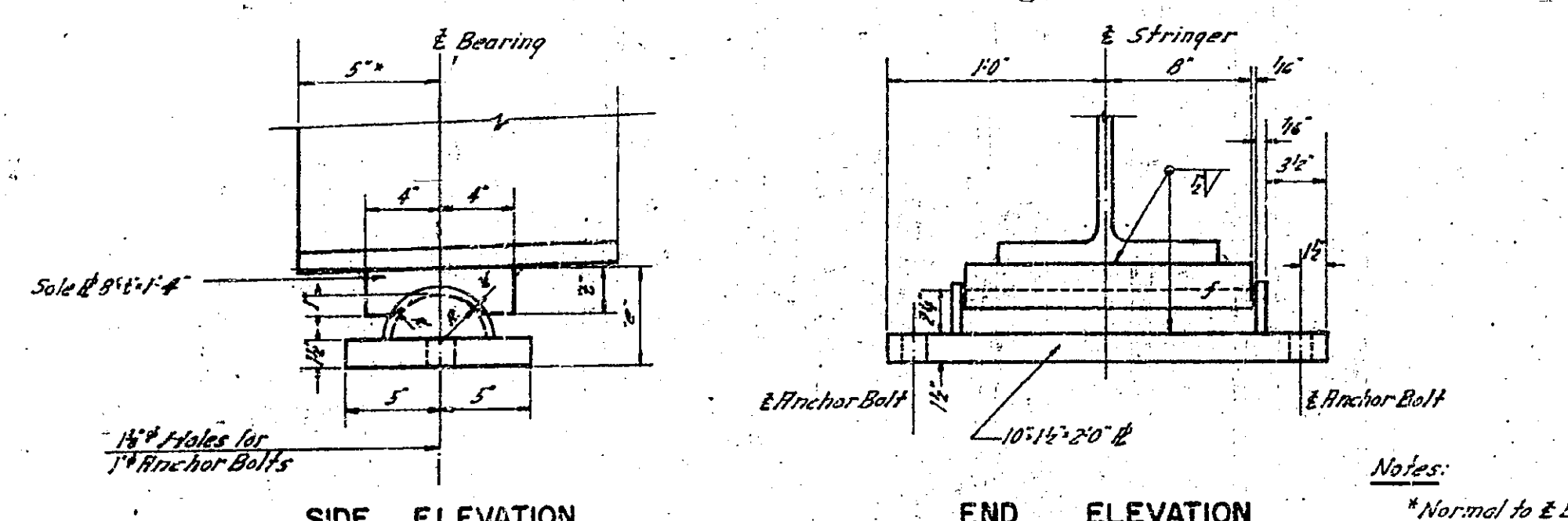
COUNTY	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKLAND	N.Y.	195	41	180
N. Y. STATE THRUWAY—HUDSON SECT. SUB-DIV. 8				
SUFFERN-NYACK STA. 175+00 TO STA. 430+50				



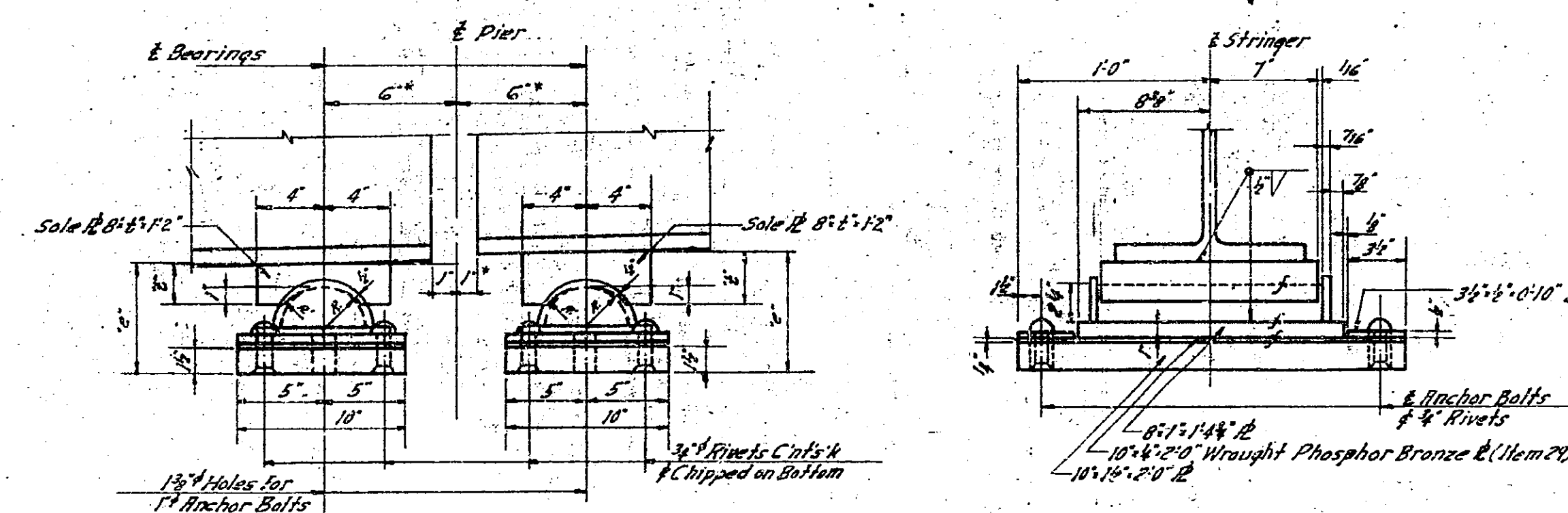
NOTE: All interior diaphragms to be 15" x 33.9"
All end diaphragms of Pier to be 16" x 36"
All end diaphragms of abutments to be 15" x 33.9"

FRAMING PLAN

Scale: 1/8" = 1'-0"

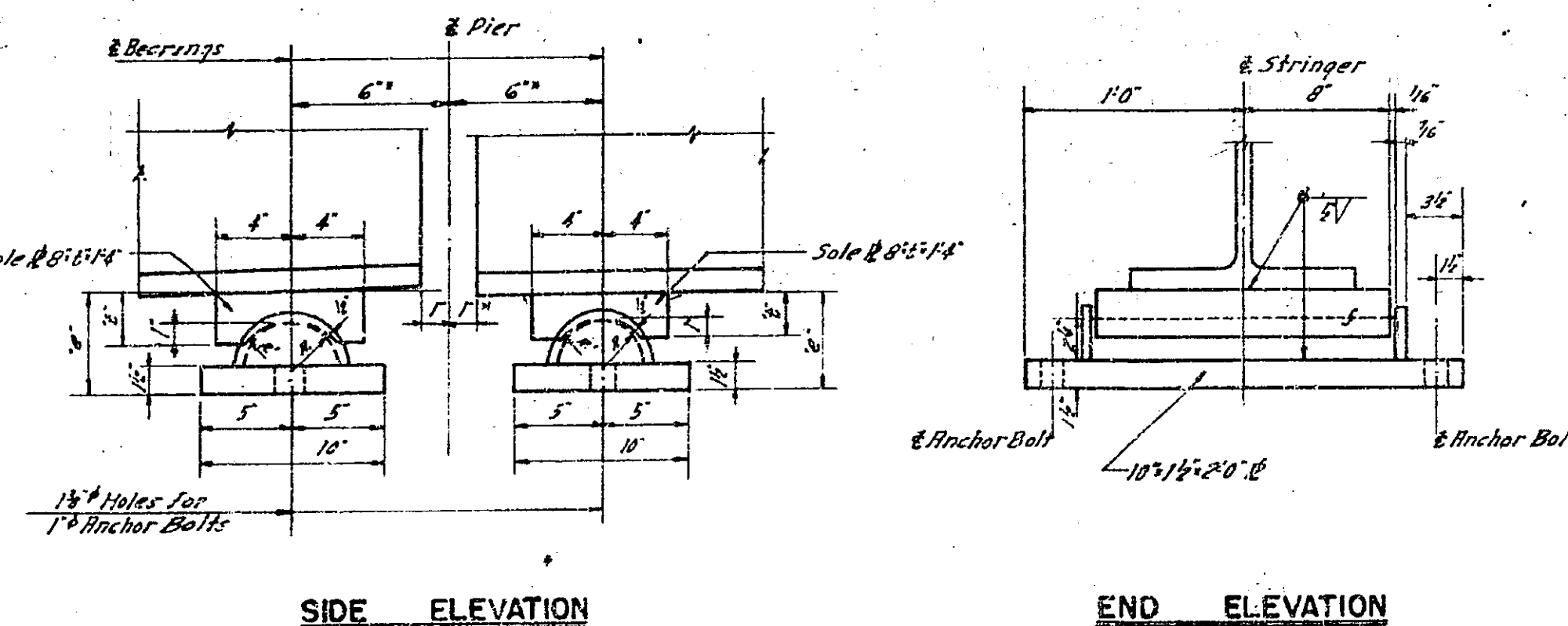


Notes:
* Normal to E Bearings
For 2" x 4" Dimensions see Table
This sheet.
R-26
R-28



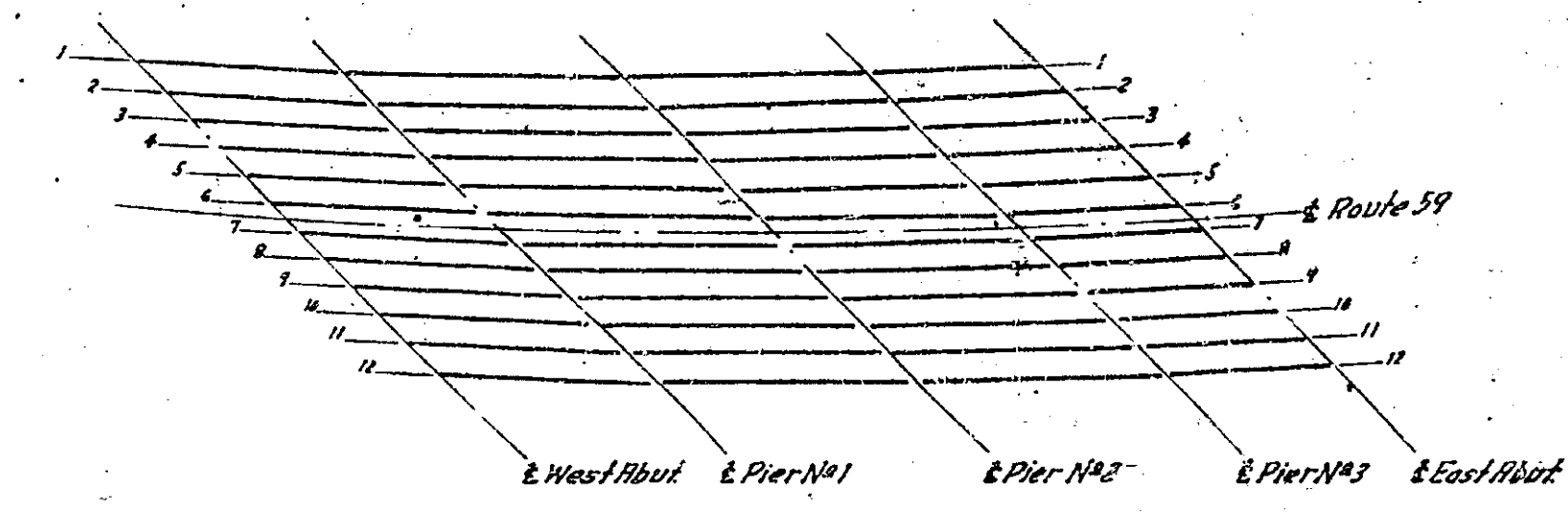
EXPANSION BEARINGS AT PIERS NO. 1 OR NO. 3

Scale: 1/8" = 1'-0"



FIXED BEARING DETAILS

Scale: 1/8" = 1'-0"



LINE	DIMEN	TABLE OF "6" AND "1" DIMENSIONS							
		W. ABUT	EXP. EXP.	FIX. EXP.	FIX. EXP.	EXP. EXP.	EXP. EXP.	EXP. EXP.	E. ABUT
1-1	a	36"	66"	66"	66"	66"	66"	66"	36"
2-2	b	24"	24"	24"	24"	24"	24"	24"	24"
3-3	c								
4-4	d		66"	66"	66"	66"	66"	66"	
5-5	e		66"	66"	66"	66"	66"	66"	
6-6	f		66"	66"	66"	66"	66"	66"	
7-7	g		66"	66"	66"	66"	66"	66"	
8-8	h		66"	66"	66"	66"	66"	66"	
9-9	i		66"	66"	66"	66"	66"	66"	
10-10	j		66"	66"	66"	66"	66"	66"	
11-11	k		66"	66"	66"	66"	66"	66"	
12-12	l	36"	66"	66"	66"	66"	66"	66"	36"

Notes:
1. For Determination of Stringer Grade refer to
DASH-HAMMER Elevations Sheet 35, 39
2. The Dimension "E" is measured at the center of the Sole Plate.
3. For Details of Anchor Bolts see Sheet No. 39.
4. Finish both curved bearing surfaces bottom of pin for bearing
shoes on all bearings.

ROUTE 59 BRIDGE (S.H. 9000)

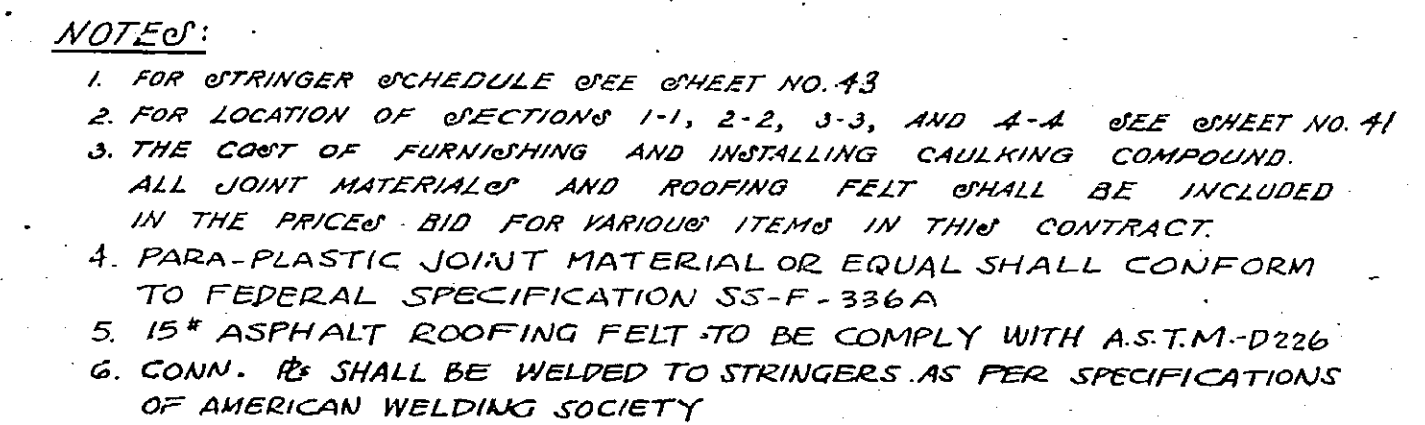
S.B. STA. 228+66.75

FRAMING PLAN & BEARING DETAILS

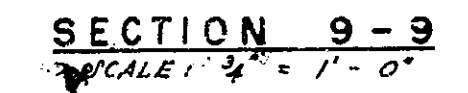
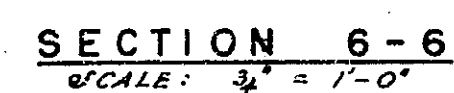
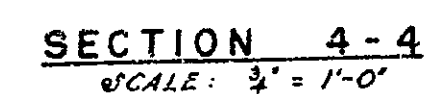
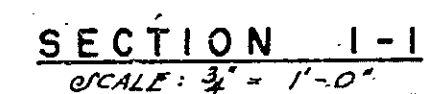
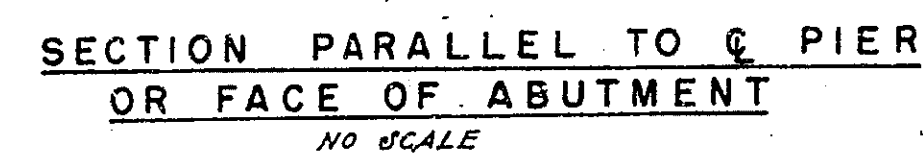
SCALE	DATE	DWG. NO.
As Shown		
PARSONS, BRINCKERHOFF, HALL & MACDONALD ENGINEERS		

Reference Sheet No. 41

Made By MR. E.B.F.
Traced By J. Dwyer
Checked By J.C.L. & M.R.



* 2'-12" @ $\frac{1}{2}$ PIER & $\frac{1}{2}$ BEARING AT ABUTMENT.
x 2'-0" @ $\frac{1}{2}$ PIER & $\frac{1}{2}$ BEARING AT ABUTMENT.



ROUTE 59 BRIDGE (S.H. 9000)
S.B. STA. 228+86.75
DECK SECTION AND
STRUCTURAL DETAILS

SCALE As Shown	DATE	DWG. NO.
PARSONS, BRINCKERHOFF, HALL & MACDONALD ENGINEERS NEW YORK		

COUNTY	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROCKLAND	NY	195	43	180
N. Y. STATE THRUWAY—HUDSON SECT. SUB-DIV. 8				
SUFFERN-NYACK STA.175+00 TO STA.430+50				

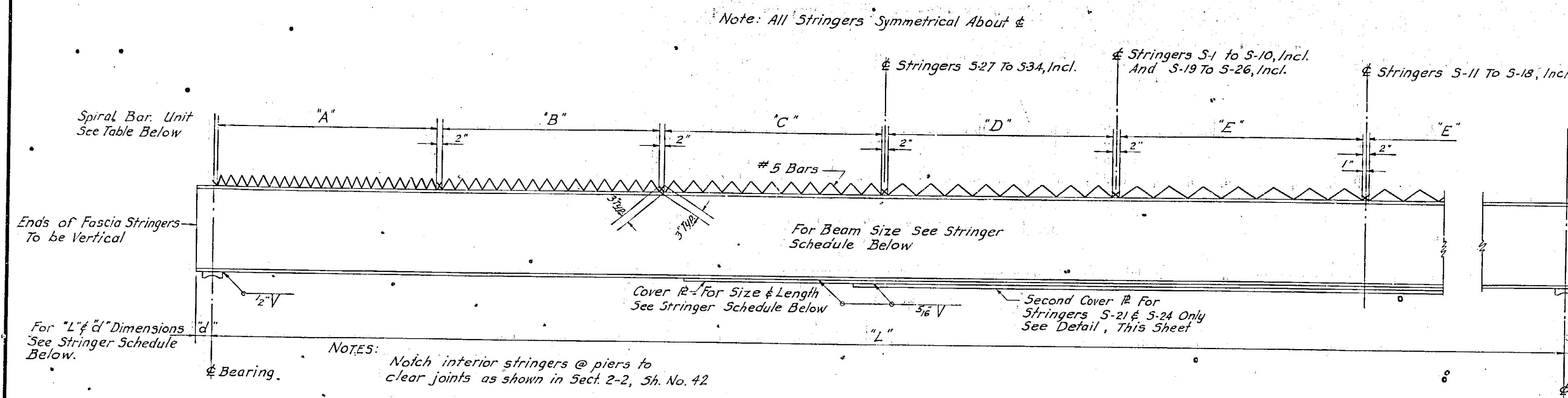
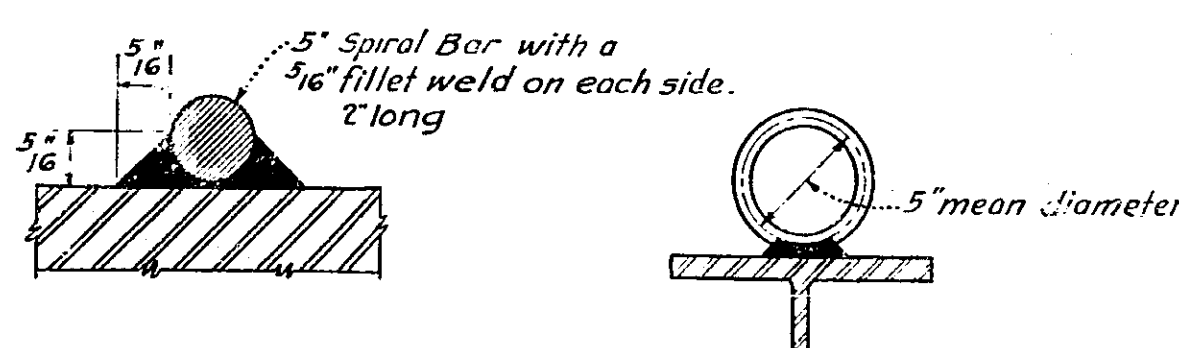
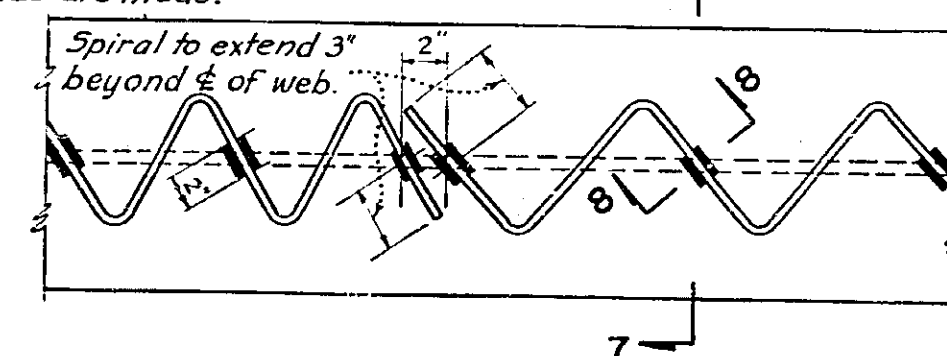


TABLE FOR SPIRAL BAR SHEAR CONNECTORS ITEM 28BA

Stringer	SPIRAL BAR UNIT									
	No. of Spaces	Pitch	Unit Length	No. of Spaces	Pitch	Unit Length	No. of Spaces	Pitch	Unit Length	No. of Spaces
S1	18	5"	7'-6"	13	7"	8'-9"	11	10"	9'-2"	7
S2	21	4 1/2"	7'-10 1/2"	19	5 1/2"	8'-8 1/2"	13	8 1/2"	9'-2 1/2"	9
S3	20	4 1/2"	7'-6"	17	5 1/2"	7'-9 1/2"	13	8"	8'-8"	11
S4	21	4 1/2"	7'-10 1/2"	16	6"	8'-0"	13	8 1/2"	9'-2 1/2"	9
S5	15	6"	7'-6"	13	7 1/2"	8'-1 1/2"	11	10"	9'-2"	7
S6	15	6"	7'-6"	13	7 1/2"	8'-1 1/2"	11	10"	9'-2"	7
S7	21	4 1/2"	7'-10 1/2"	16	6"	8'-0"	13	8 1/2"	9'-2 1/2"	9
S8	20	4 1/2"	7'-6"	17	5 1/2"	7'-9 1/2"	13	8"	8'-8"	11
S9	21	4 1/2"	7'-10 1/2"	16	6"	8'-0"	12	8 1/2"	8'-6"	9
S10	16	5 1/2"	7'-4"	13	7"	7'-7"	11	10"	9'-2"	7
S11	21	5"	8'-9"	19	6"	9'-6"	14	8"	9'-4"	10
S12	24	4 1/2"	9'-0"	20	5 1/2"	9'-2"	15	7"	8'-9"	11
S13	26	4"	8'-8"	22	5"	9'-2"	15	7"	8'-9"	11
S14	22	5"	9'-2"	18	6"	9'-0"	13	8"	8'-8"	10
S15	22	5"	9'-2"	18	6"	9'-0"	13	8"	8'-8"	10
S16	26	4"	8'-8"	22	5"	9'-2"	15	7"	8'-9"	11
S17	24	4 1/2"	9'-0"	20	5 1/2"	9'-2"	15	7"	8'-9"	11
S18	22	4 1/2"	8'-3"	17	6"	8'-6"	15	7 1/2"	9'-4 1/2"	10
S19	21	5 1/2"	9'-7 1/2"	17	7 1/2"	10'-7 1/2"	13	10"	10'-10"	8
S20	25	4 1/2"	9'-4 1/2"	21	6"	10'-6"	14	9"	10'-6"	10
S21	29	4"	9'-8"	24	5"	10'-0"	18	7"	10'-6"	12
S22	24	5"	10'-0"	18	6 1/2"	9'-9"	13	9 1/2"	10'-3 1/2"	9
S23	24	5"	10'-0"	18	6 1/2"	9'-9"	13	9 1/2"	10'-3 1/2"	9
S24	29	4"	9'-8"	24	5"	10'-0"	18	7"	10'-6"	12
S25	25	4 1/2"	9'-4 1/2"	21	6"	10'-6"	14	9"	10'-6"	10
S26	22	5 1/2"	10'-1"	17	7"	9'-11"	12	10"	10'-0"	8
S27	14	8"	9'-4"	11	10"	9'-2"	8	16"	10'-8"	
S28	19	6"	9'-6"	14	8"	9'-4"	10	12"	10'-0"	
S29	24	4 1/2"	9'-0"	18	6 1/2"	9'-9"	12	10"	10'-0"	
S30	17	6 1/2"	9'-2 1/2"	12	9 1/2"	9'-6"	8	15"	10'-0"	
S31	17	6 1/2"	9'-2 1/2"	12	9 1/2"	9'-6"	8	15"	10'-0"	
S32	24	4 1/2"	9'-0"	18	6 1/2"	9'-9"	12	10"	10'-0"	
S33	19	6"	9'-6"	14	8"	9'-4"	10	12"	10'-0"	
S34	13	7 1/2"	8'-7 1/2"	9	11"	8'-3"	9	16"	12'-0"	

NOTE: Lengths and pitches shown in above table are measured along stringer flange.

Do not paint surface of flange on which welds are made.



SPECIAL NOTES FOR SPIRALS

The Contractors & Engineers attention is called to the possibility of interference between the reinforcing steel in the slab & the beam spirals: To avoid this interference the bar spacing may be varied 1" with the understanding that the required area of steel will be placed in each 5' ft. Even then some bars may have to be threaded thru one or more spirals.

All spirals shall be placed symmetrically about ϵ of span on each stringer with the pitches of each section of spirals decreasing progressively from the ϵ of span to the ends of the stringer.

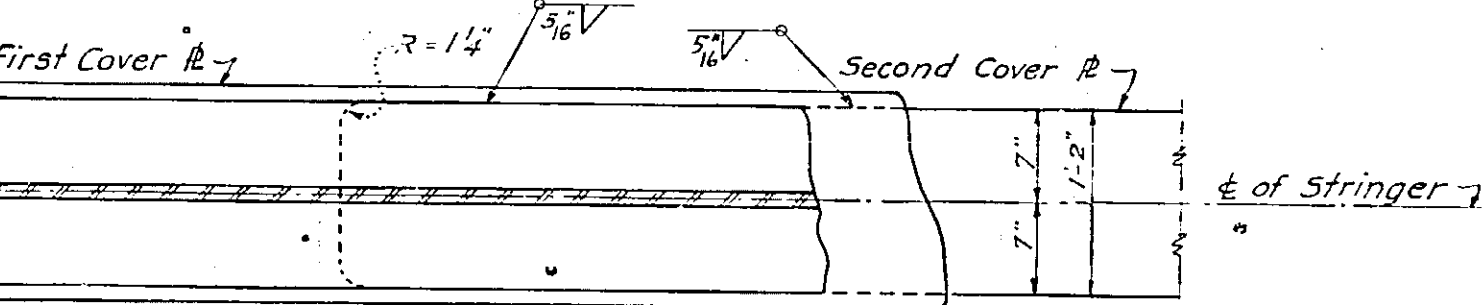
STRINGER SCHEDULE

Mark	Dimensions		Section	Bottom Cov. #	
	L	d		Size	Length
S1	70'-6"	0'-7 1/2"	36 WF 150	2 1/2"	1 3/8 x 14 69'-8"
S2	70'-6"	0'-7 1/2"	36 WF 150	2 1/2"	1 3/8 x 14 69'-8"
S3	69'-2 1/2"	0'-7 1/2"	36 WF 150	2 1/2"	1 3/8 x 14 46'-0"
S4	69'-2 1/2"	0'-7 1/2"	36 WF 150	2 1/2"	1 3/8 x 14 44'-0"
S5	69'-2 1/2"	0'-7 1/2"	36 WF 150	2 1/2"	1 3/8 x 14 36'-0"
S6	69'-0 1/2"	0'-7 1/2"	36 WF 150	2 1/2"	1 3/8 x 14 33'-0"
S7	69'-0 1/2"	0'-7 1/2"	36 WF 150	2 1/2"	1 3/8 x 14 43'-6"
S8	69'-0 1/2"	0'-7 1/2"	36 WF 150	2 1/2"	1 3/8 x 14 45'-6"
S9	67'-10 1/2"	0'-7 1/2"	36 WF 150	2 1/2"	1 3/8 x 14 41'-6"
S10	67'-10 1/2"	0'-7 1/2"	36 WF 150	2 1/2"	1 3/8 x 14 67'-0"
S11	93'-7 1/2"	0'-7 1/2"	36 WF 260	4 1/2"	7/8 x 18 92'-9"
S12	92'-1 1/2"	0'-7 1/2"	36 WF 260	3 3/4"	1 1/8 x 18 55'-0"
S13	92'-1 1/2"	0'-7 1/2"	36 WF 260	3 3/4"	1 1/8 x 18 61'-0"
S14	92'-1 1/2"	0'-7 1/2"	36 WF 260	4"	5/8 x 18 50'-0"
S15	91'-1 1/2"	0'-7 1/2"	36 WF 260	4"	1/2 x 18 45'-0"
S16	91'-1 1/2"	0'-7 1/2"	36 WF 260	3 1/2"	1 x 18 59'-0"
S17	91'-1 1/2"	0'-7 1/2"	36 WF 260	3 1/2"	1 1/8 x 18 52'-0"
S18	90'-6 1/2"	0'-7 1/2"	36 WF 260	4 1/2"	3/4 x 18 89'-7"
S19	84'-7 1/2"	0'-7 1/2"	36 WF 194	3 3/4"	7/8 x 14 83'-9"
S20	83'-5 1/2"	0'-6 1/2"	36 WF 194	3"	1 1/8 x 14 54'-0"
S21	83'-5 1/2"	0'-6 1/2"	36 WF 194	3"	3/4 x 14 60'-0"
S22	83'-5 1/2"	0'-6 1/2"	36 WF 194	3 1/2"	1 1/8 x 14 51'-6"
S23	83'-4 1/2"	0'-6 1/2"	36 WF 194	3 1/2"	3/4 x 14 49'-0"
S24	83'-4 1/2"	0'-6 1/2"	36 WF 194	3"	3/4 x 14 59'-0"
S25	83'-4 1/2"	0'-6 1/2"	36 WF 194	3"	7/8 x 14 81'-5"
S26	82'-3 1/2"	0'-6 1/2"	36 WF 194	3 1/2"	1 1/8 x 14 81'-5"
S27	58'-9 1/2"	0'-6 1/2"	36 WF 150	1 1/2"	none
S28	58'-1 1/2"	0'-6 1/2"	36 WF 150	1 1/2"	none
S29	58'-1 1/2"	0'-6 1/2"	36 WF 150	1 1/2"	none
S30	58'-1 1/2"	0'-6 1/2"	36 WF 150	1 1/2"	none
S31	58'-0 1/2"	0'-6 1/2"	36 WF 150	1 1/2"	none
S32	58'-0 1/2"	0'-6 1/2"	36 WF 150	1 1/2"	none
S33	58'-0 1/2"	0'-6 1/2"	36 WF 150	1 1/2"	none
S34	57'-4 1/2"	0'-6 1/2"	36 WF 150	1 3/4"	none

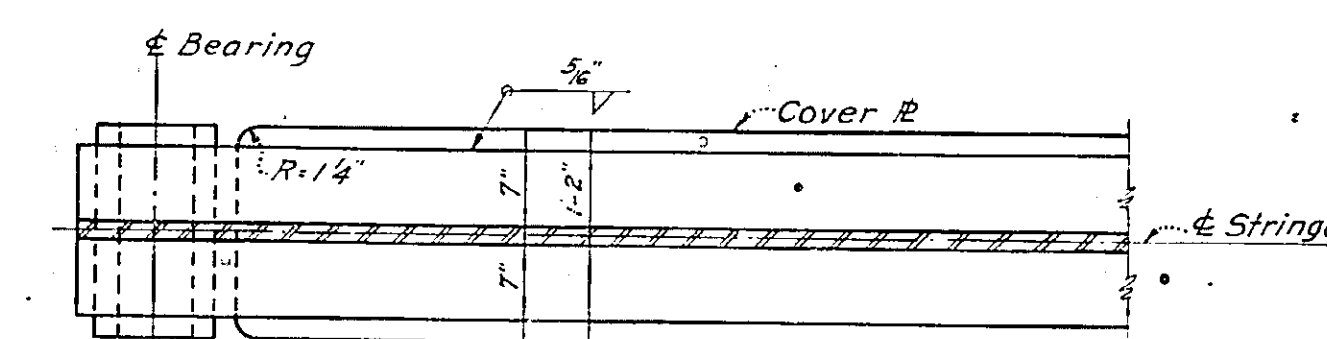
* Full Length - See Detail, This Sheet.

PARTIAL BOTTOM PLAN OF STRINGER SHOWING BOTTOM COVER PL. CUTOFF

Scale: 1"=1'-0"



END VIEW



NOTE: Special precautions must be exercised where welding crosses edge of flange to avoid any possibility of undercut or nicks in edge of flange.

PARTIAL ELEVATION FOR FULL LENGTH PLATE

Scale: 1"=1'-0"

ROUTE 59 BRIDGE (S.H. 9000)		
S.B. STA. 228+86.75		
STRINGER DETAILS		
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PARSONS, BRINCKERHOFF, HALL & MACDONALD ENGINEERS		
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