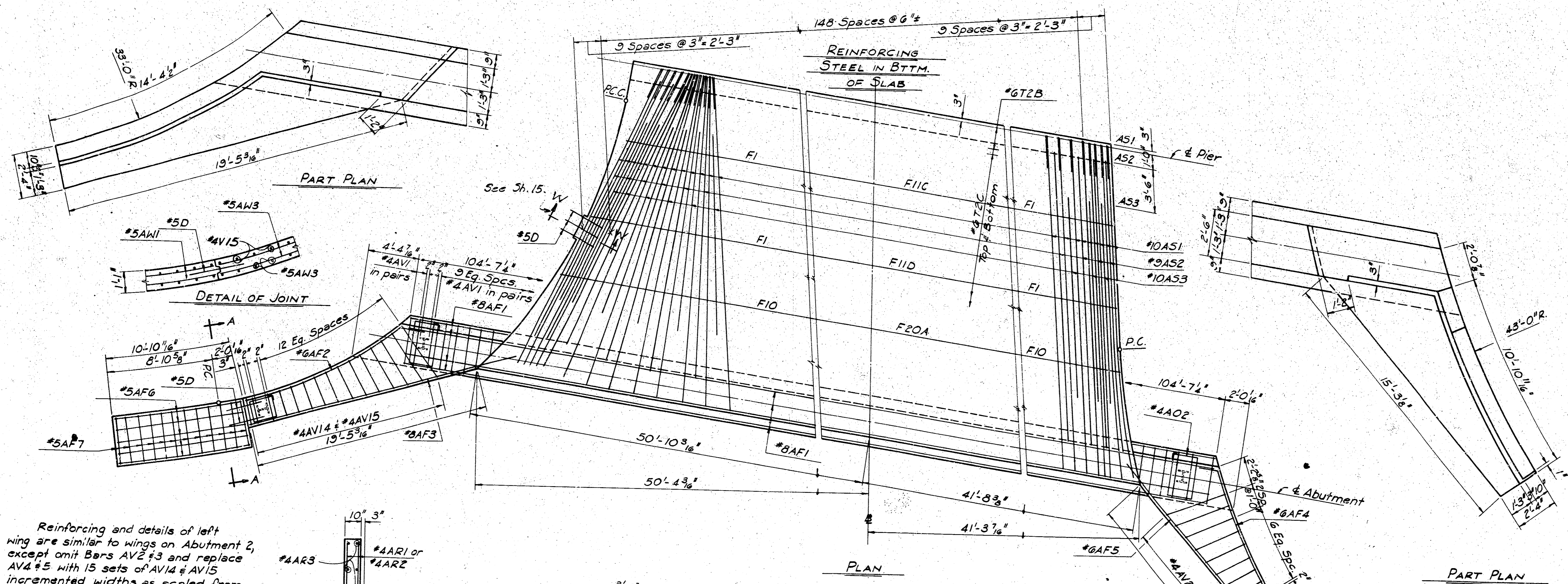


ELEVATION

Backwall reinforcing identical to Abutment No. 2 except for number of bars.

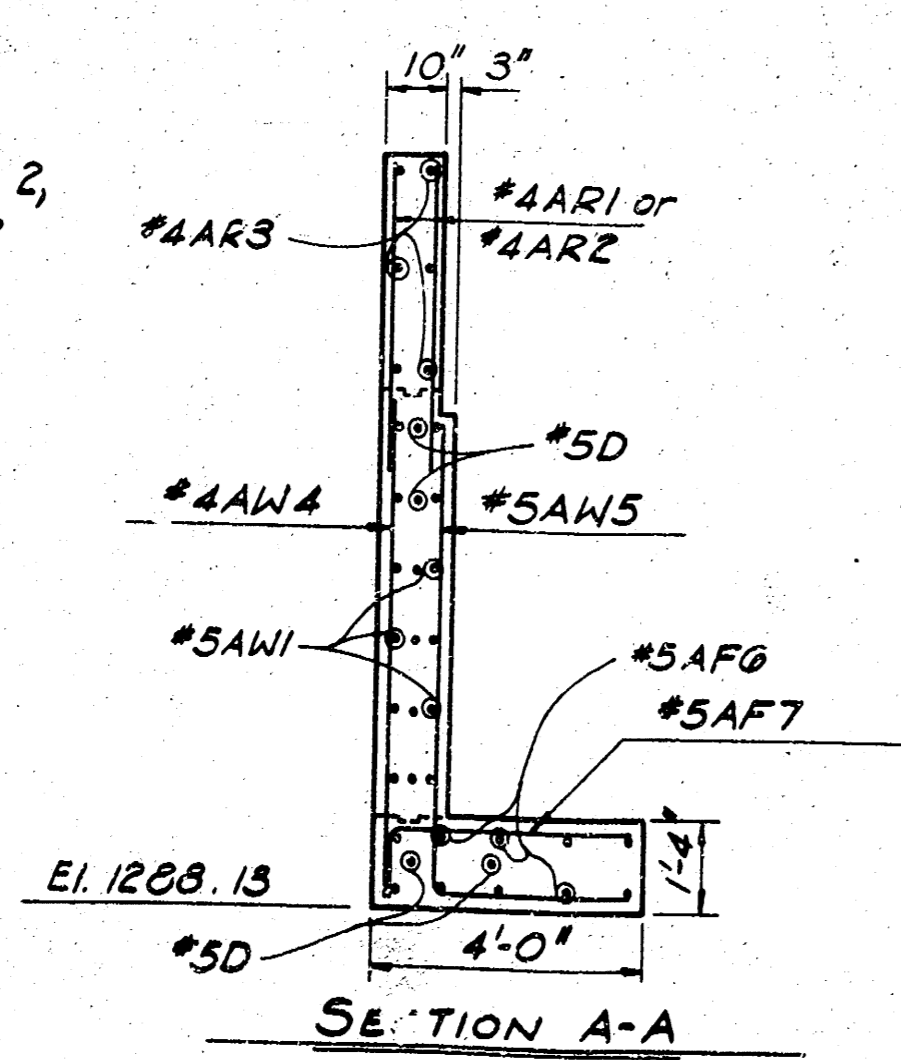
Top steel in slab is same pattern as Abut. No. 2 except fanned from the left edge similarly to bottom steel.



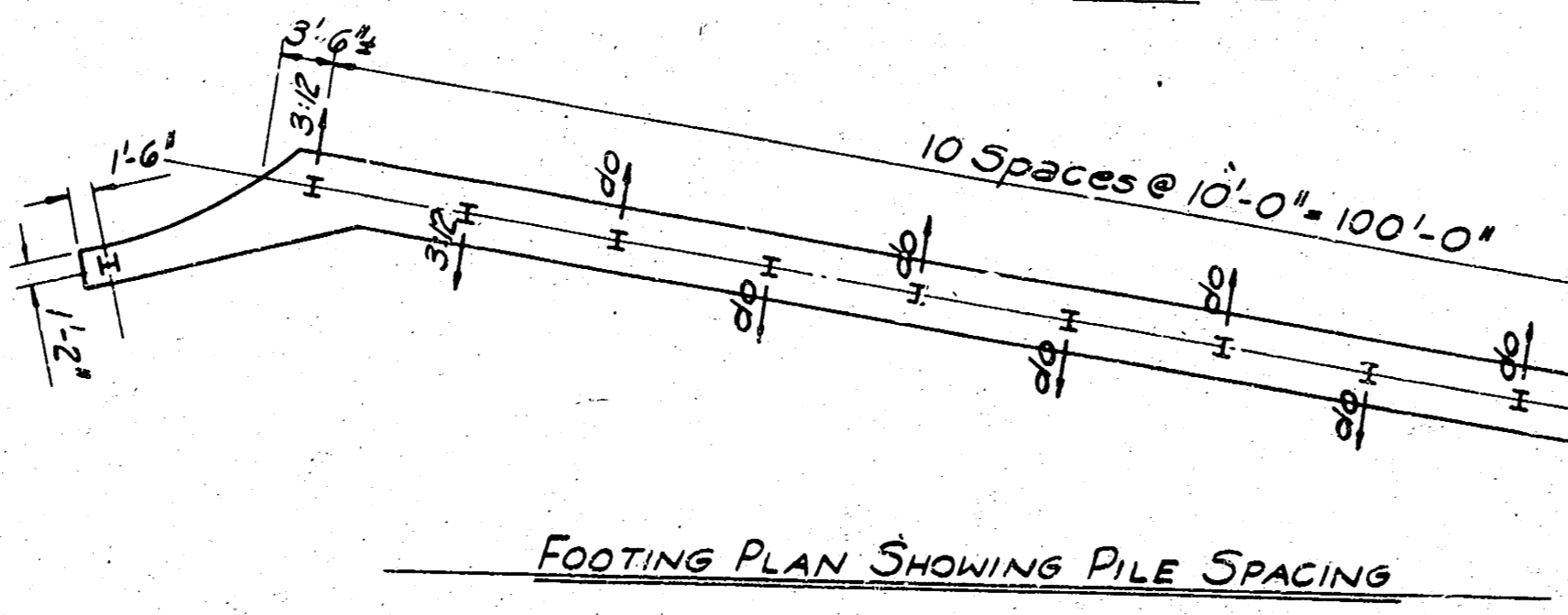
PLAN

PART PLAN

Reinforcing and details of left wing are similar to wings on Abutment 2, except omit Bars AV2 #3 and replace AV4 #5 with 15 sets of AV14 # AV15 incremented widths as scaled from this plan.



SECTION A-A



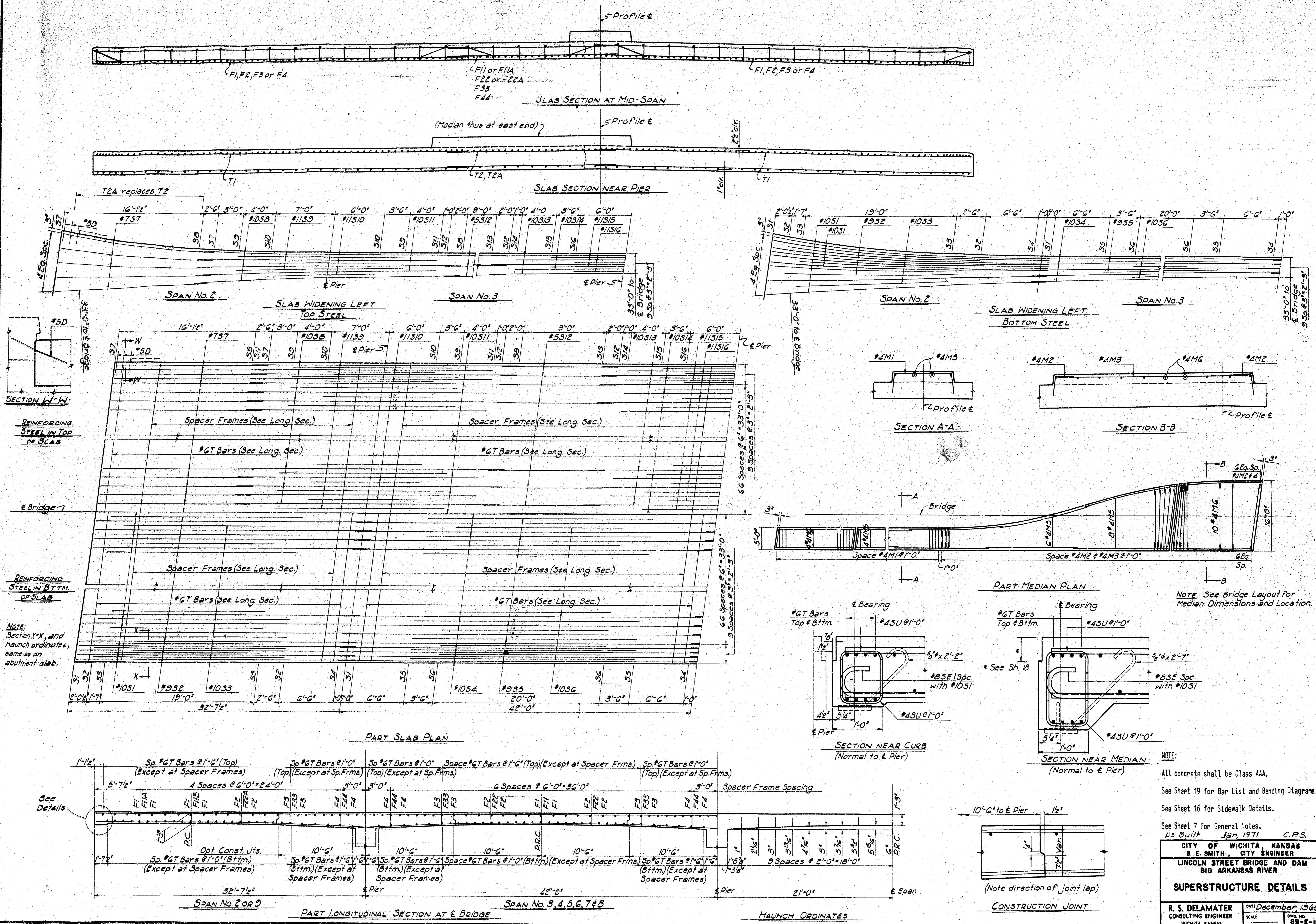
FOOTING PLAN SHOWING PILE SPACING

Reinforcing and details of right wing are similar to wings on Abutment 2, except omit Bars AV2 #3 and replace AV4 #5 with 11 sets of AV24 # AV25 incremented widths as scaled from this plan.

NOTE:  
Refer to Sheet 10, Abutment No. 2, Longitudinal Section, Wing Section and other details are identical to those on Abutment No. 2 except as otherwise noted or dimensioned.  
See Sheet 17 for details of wing rail.  
All concrete shall be Class AAA.

CITY OF WICHITA, KANSAS	
B. E. SMITH, CITY ENGINEER	
LINCOLN STREET BRIDGE AND DAM	
BIG ARKANSAS RIVER	
DETAILS, ABUTMENT 1	
R. S. DELAMATER CONSULTING ENGINEER WICHITA, KANSAS	DATE December, 1968 PAGE NO. 89-E-3

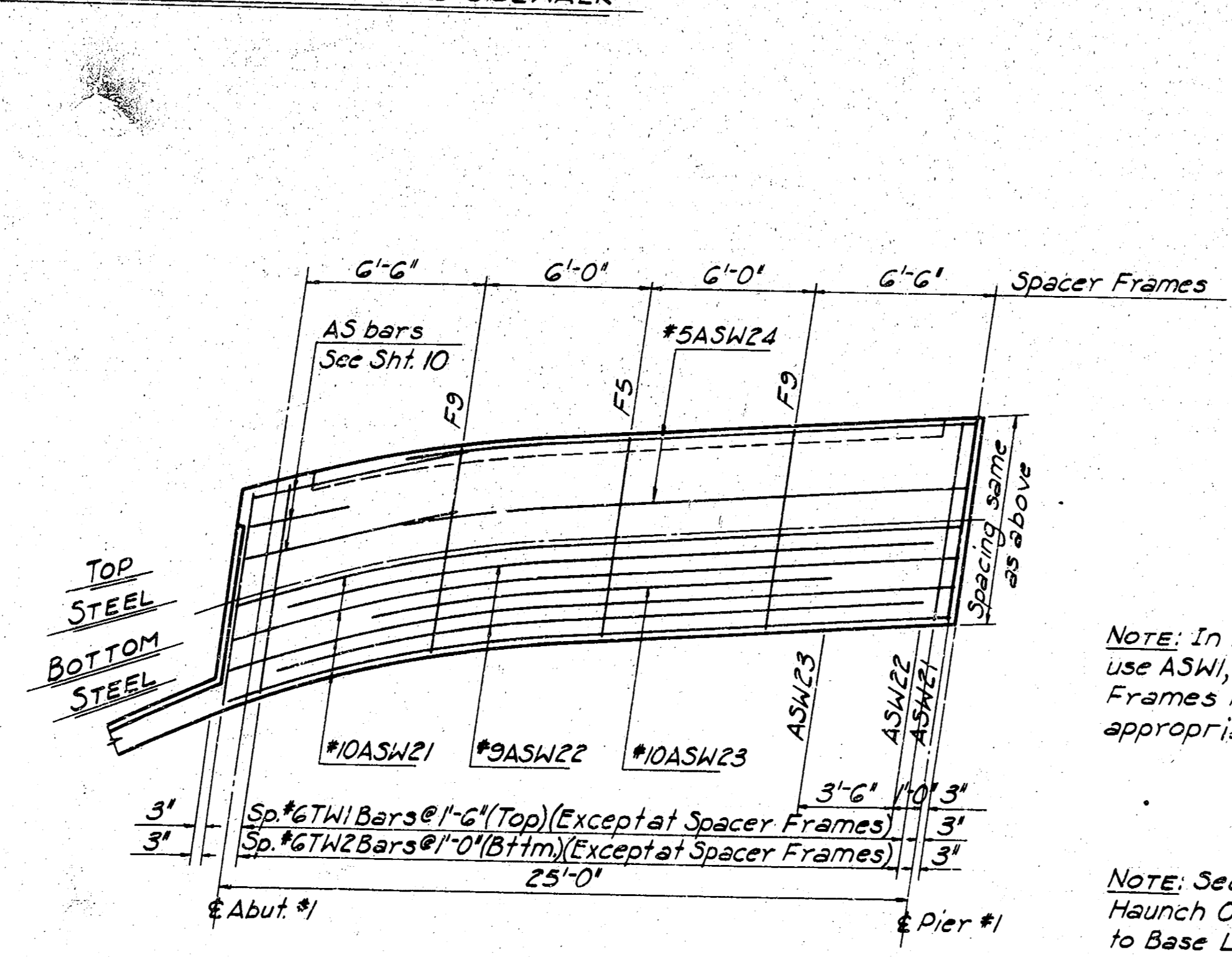
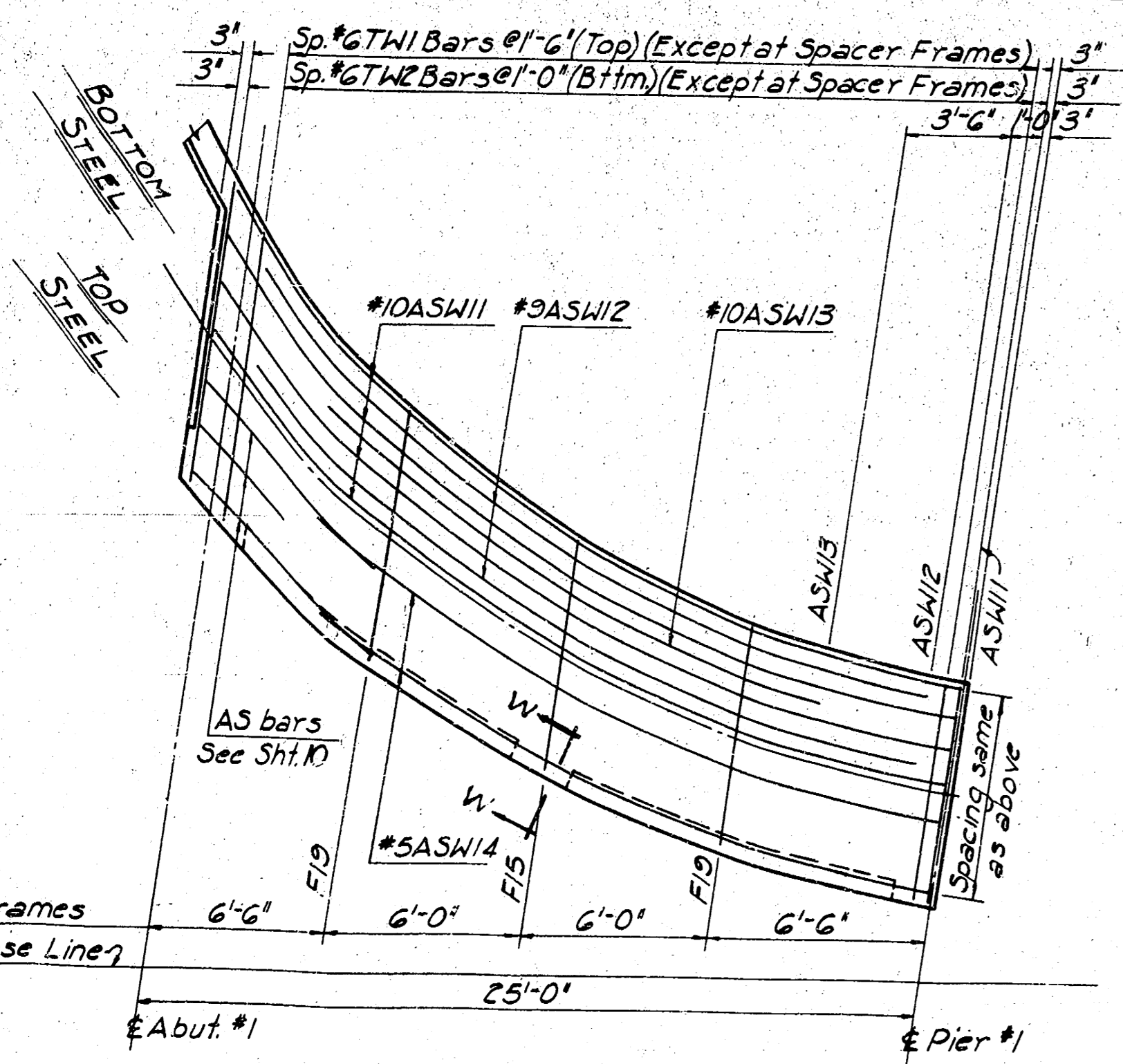
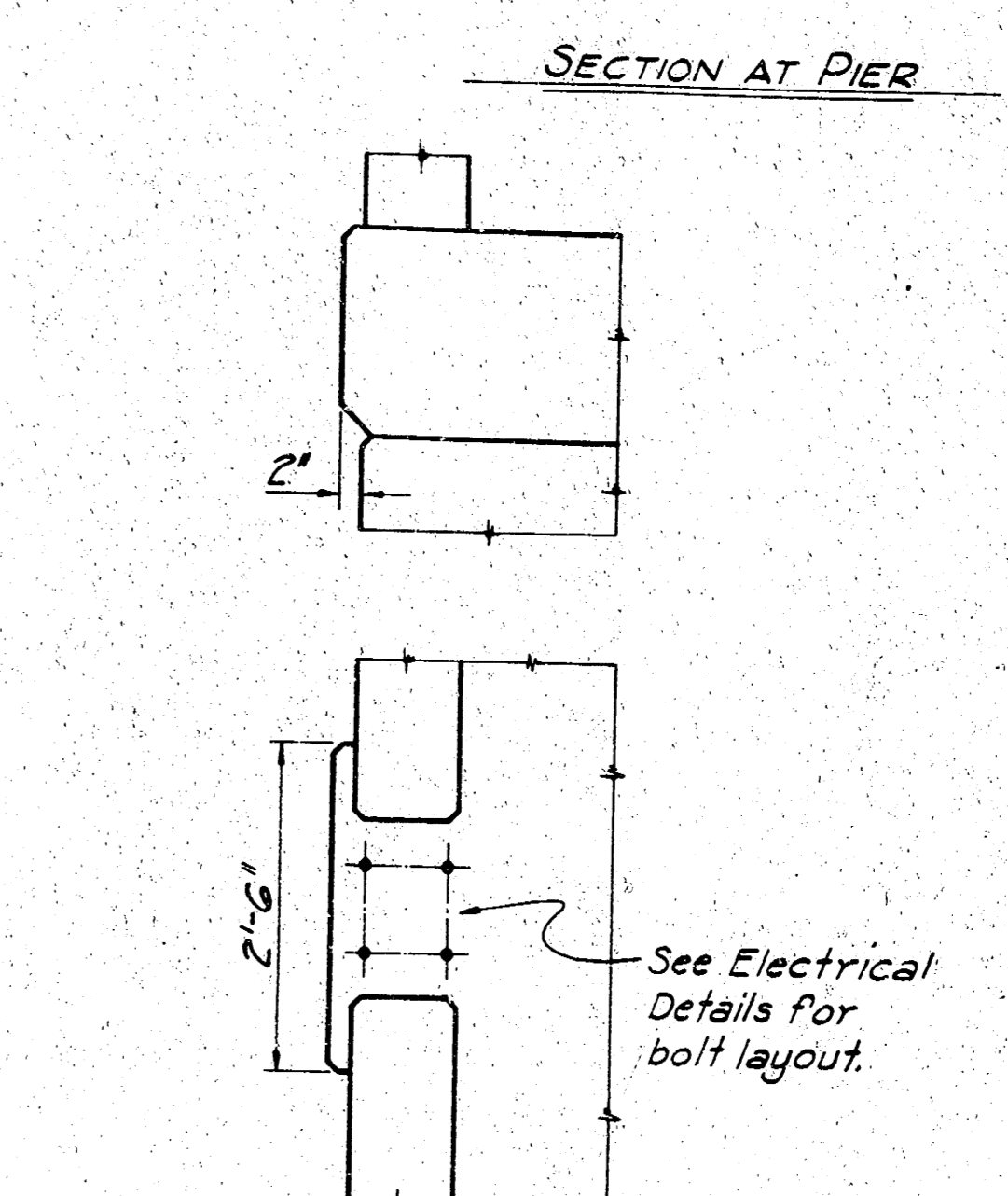
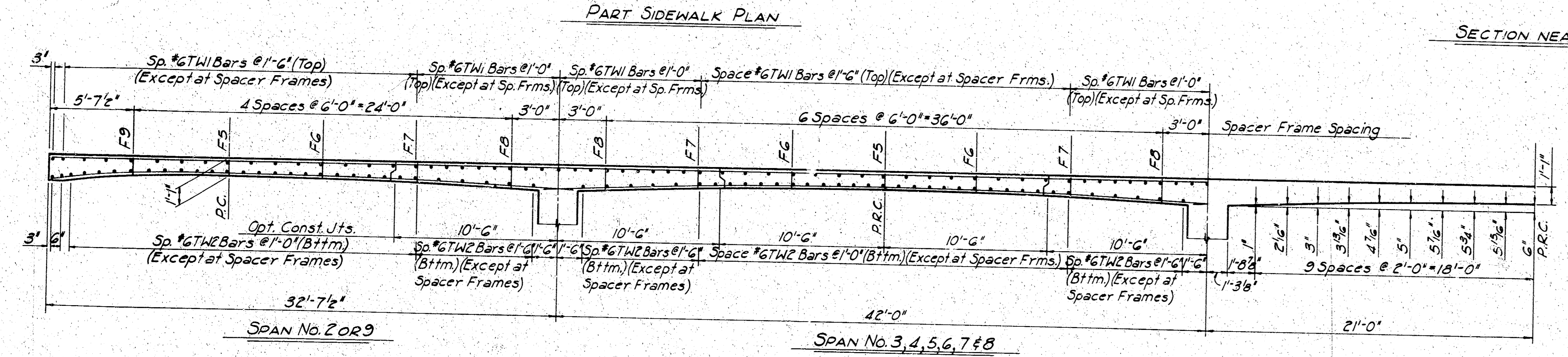
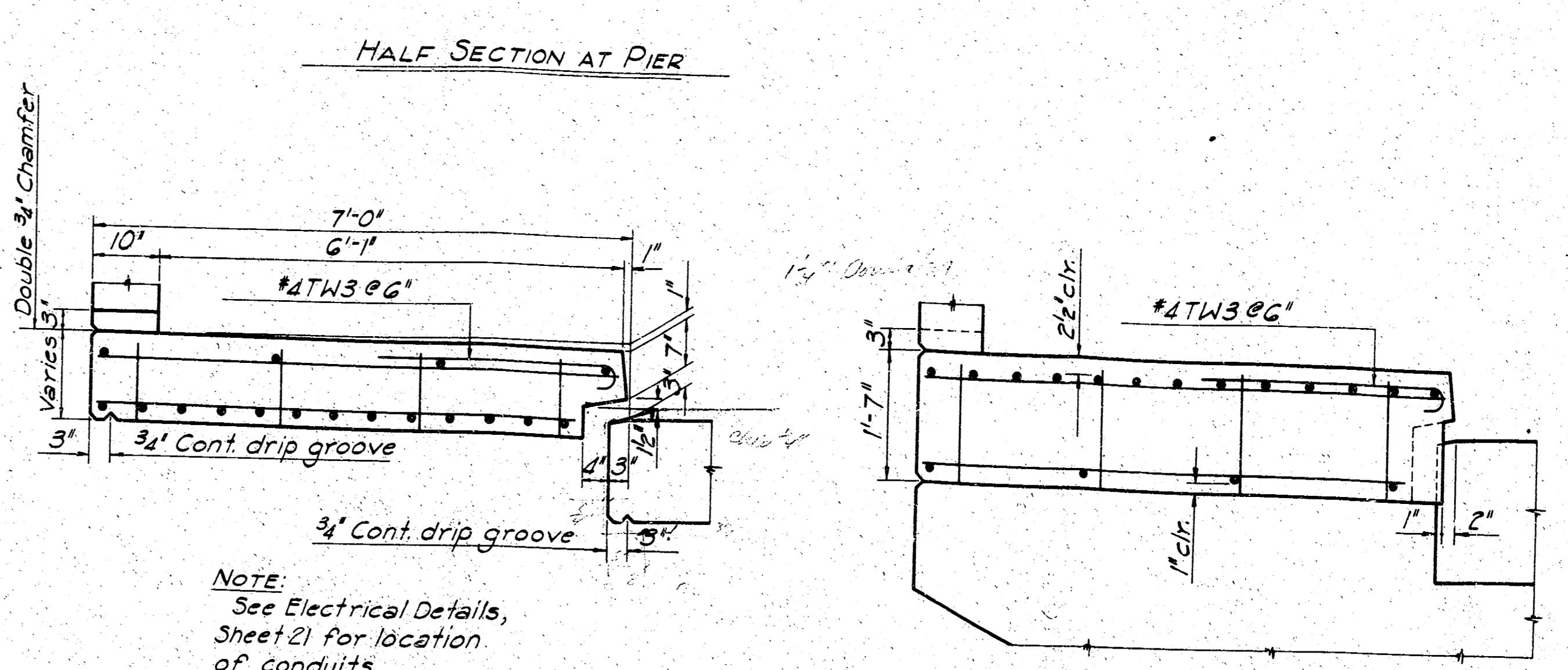
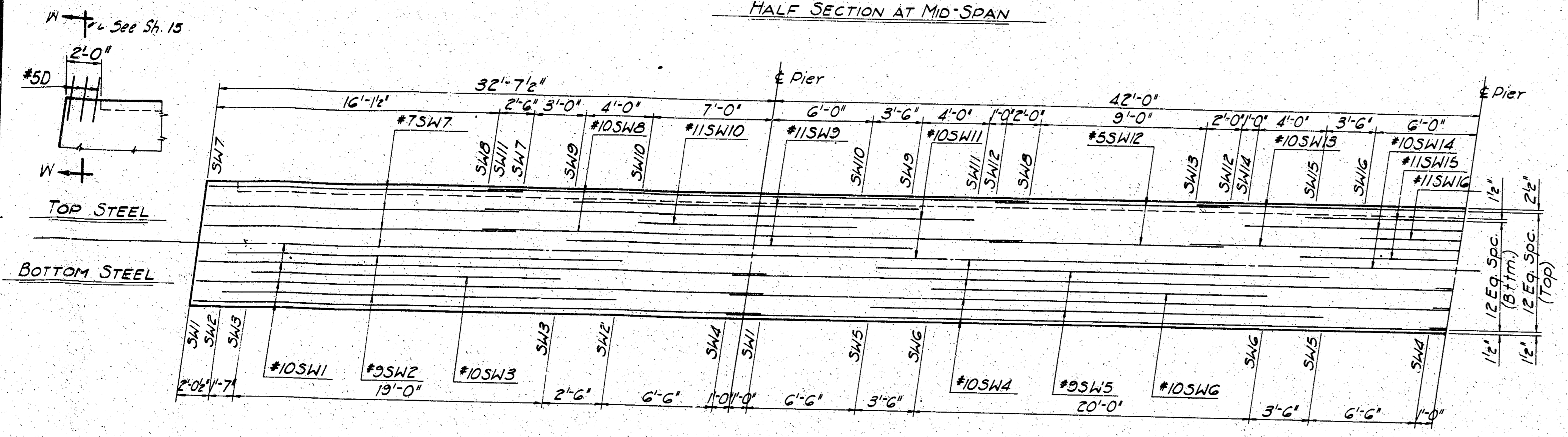
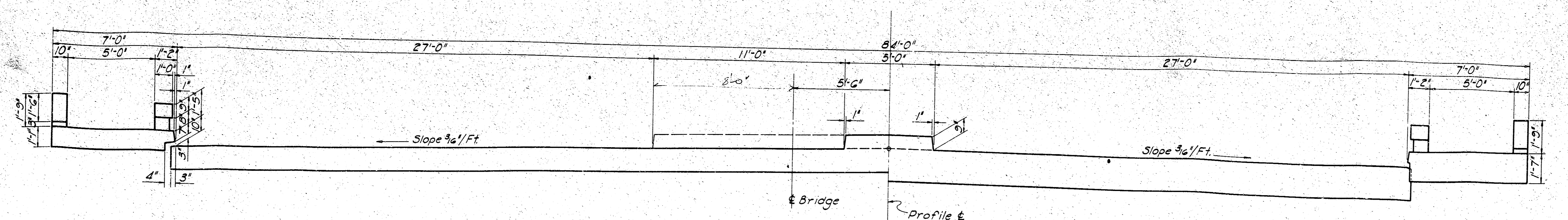




NOTE: See Bridge Layout for Median Dimensions and Location.

NOTE:  
 All concrete shall be Class AAA.  
 See Sheet 19 for Bar List and Bending Diagrams.  
 See Sheet 16 for Sidewalk Details.  
 See Sheet 7 for General Notes.  
 As Built Jan. 1971 C.P.S.

<b>CITY OF WICHITA, KANSAS</b>	
B. E. SMITH, CITY ENGINEER	
LINCOLN STREET BRIDGE AND DAM	
BIG ARKANSAS RIVER	
<b>SUPERSTRUCTURE DETAILS</b>	
R. S. DELAMATER CONSULTING ENGINEER WICHITA, KANSAS	DATE: December, 1968 SCALE: 1/4" = 1'-0" DWG. NO. 89-E-15



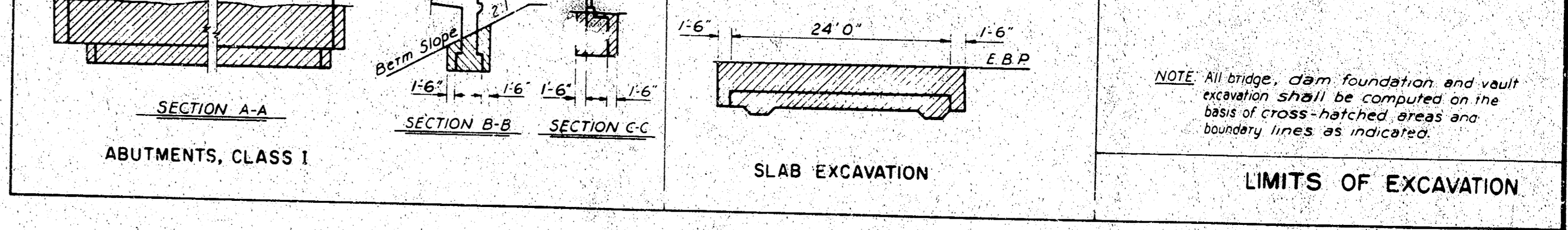
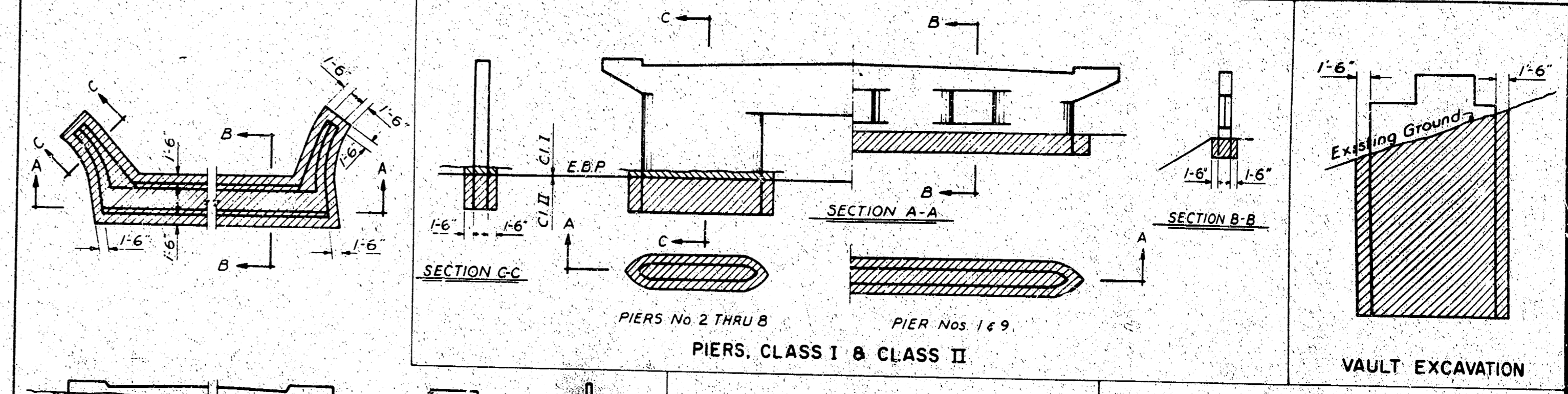
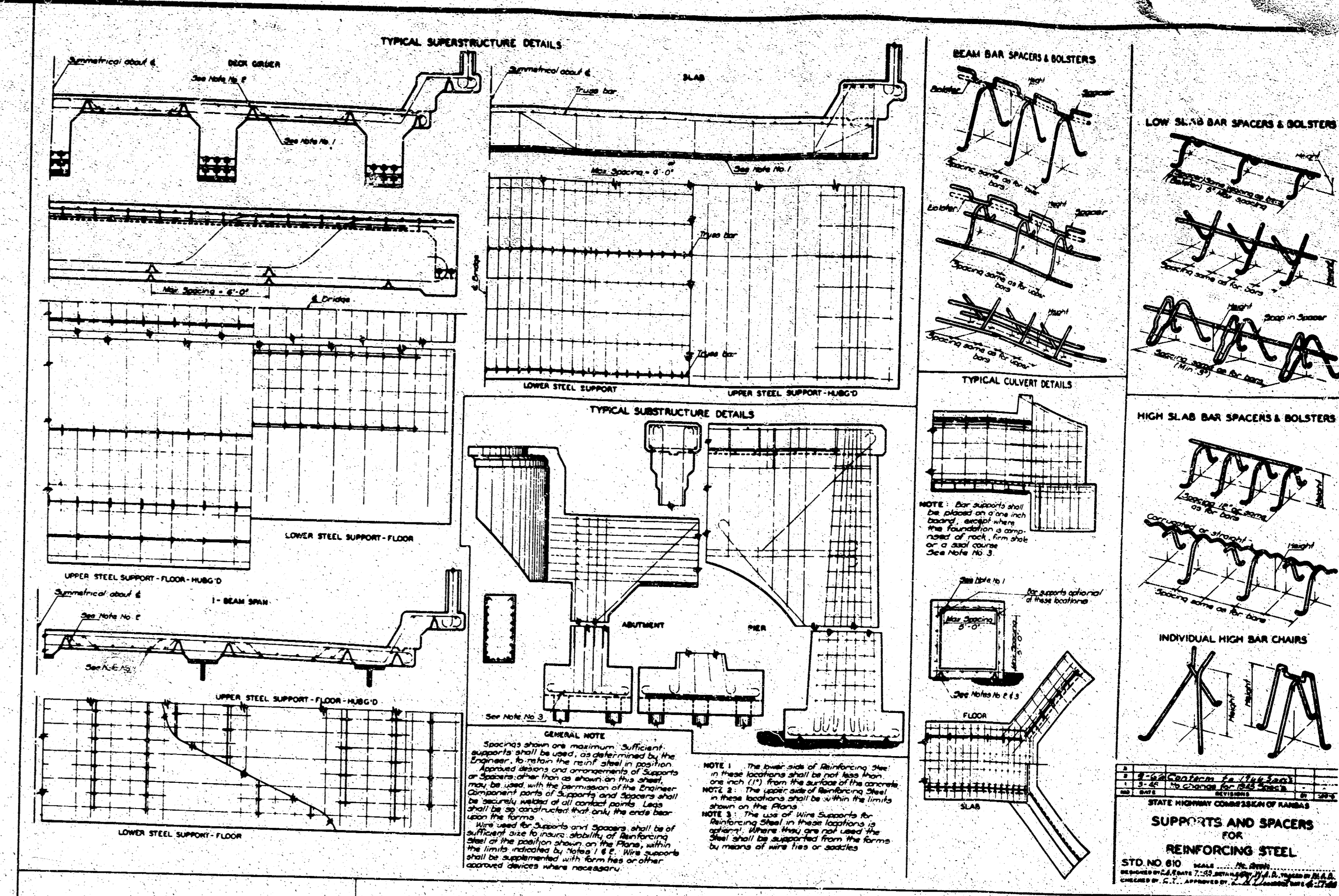
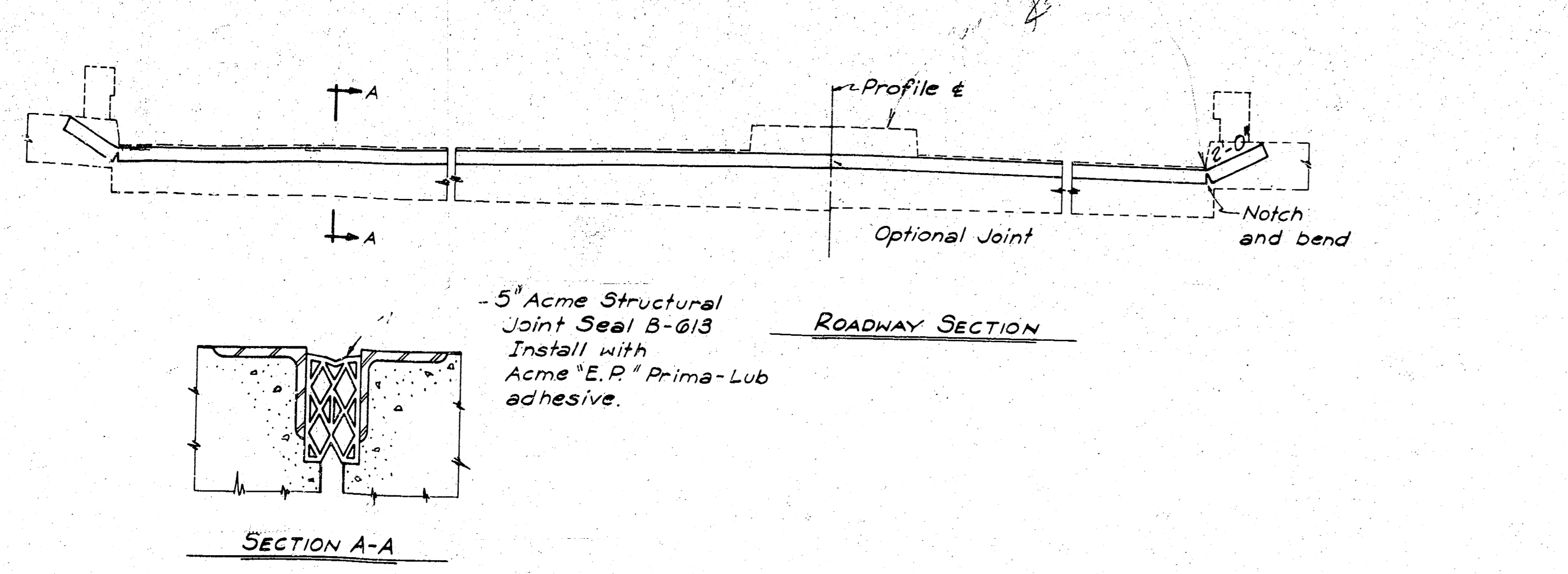
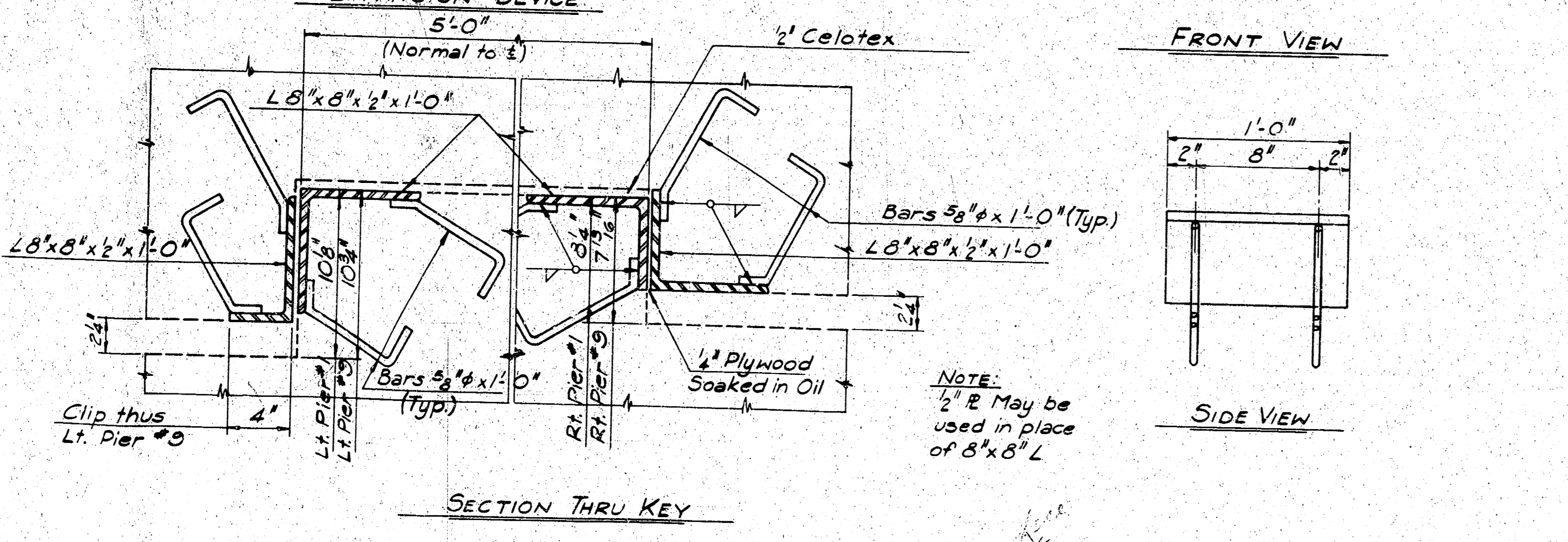
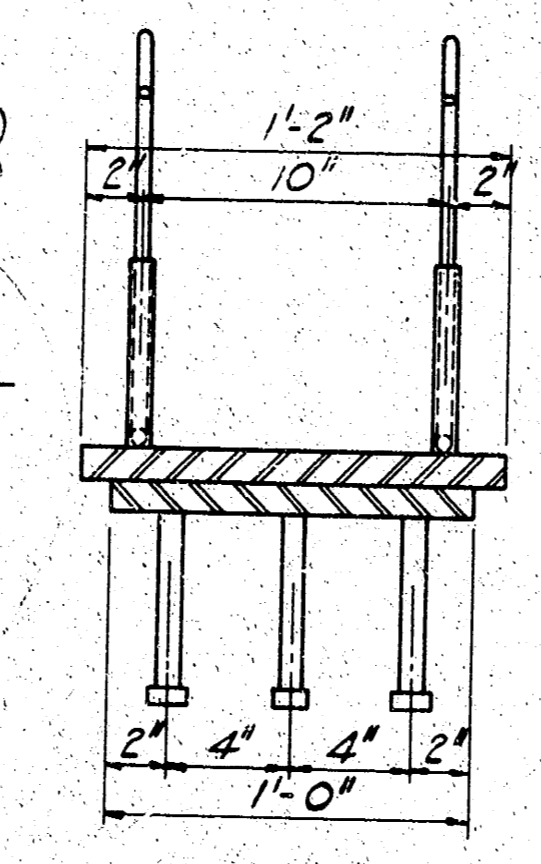
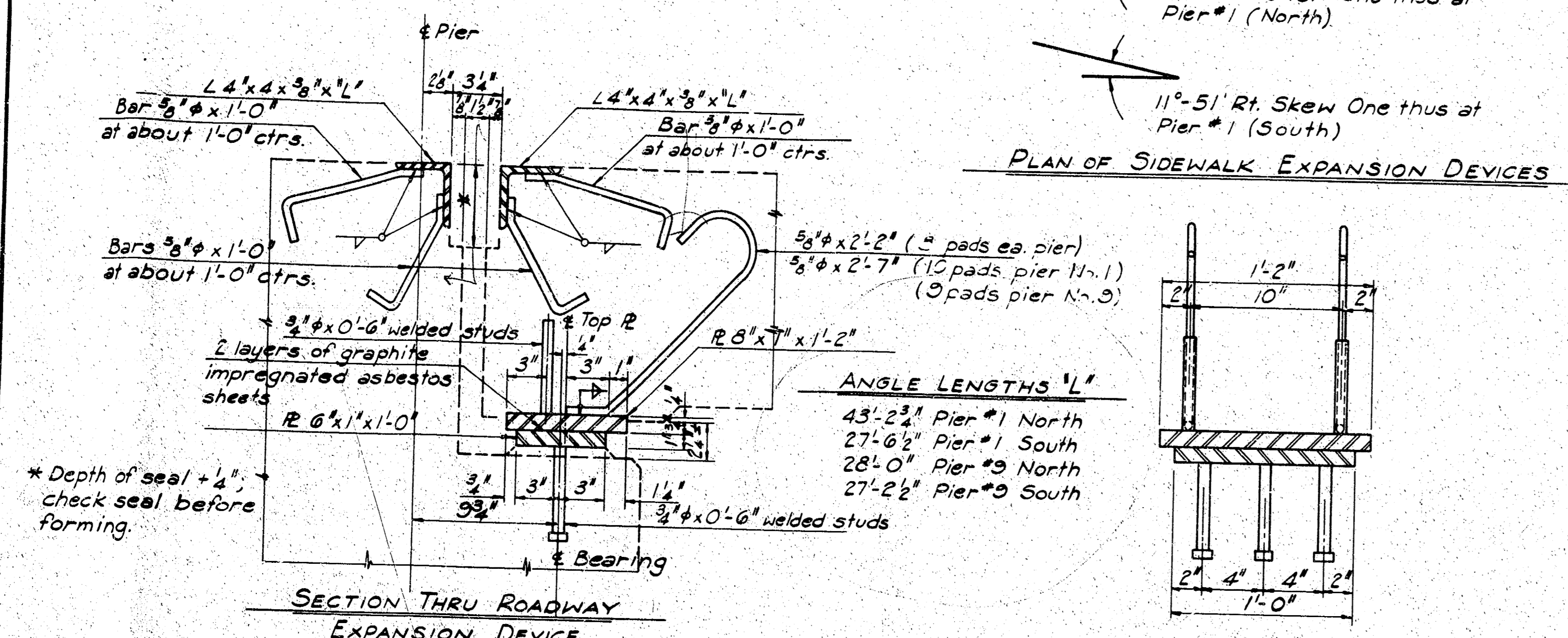
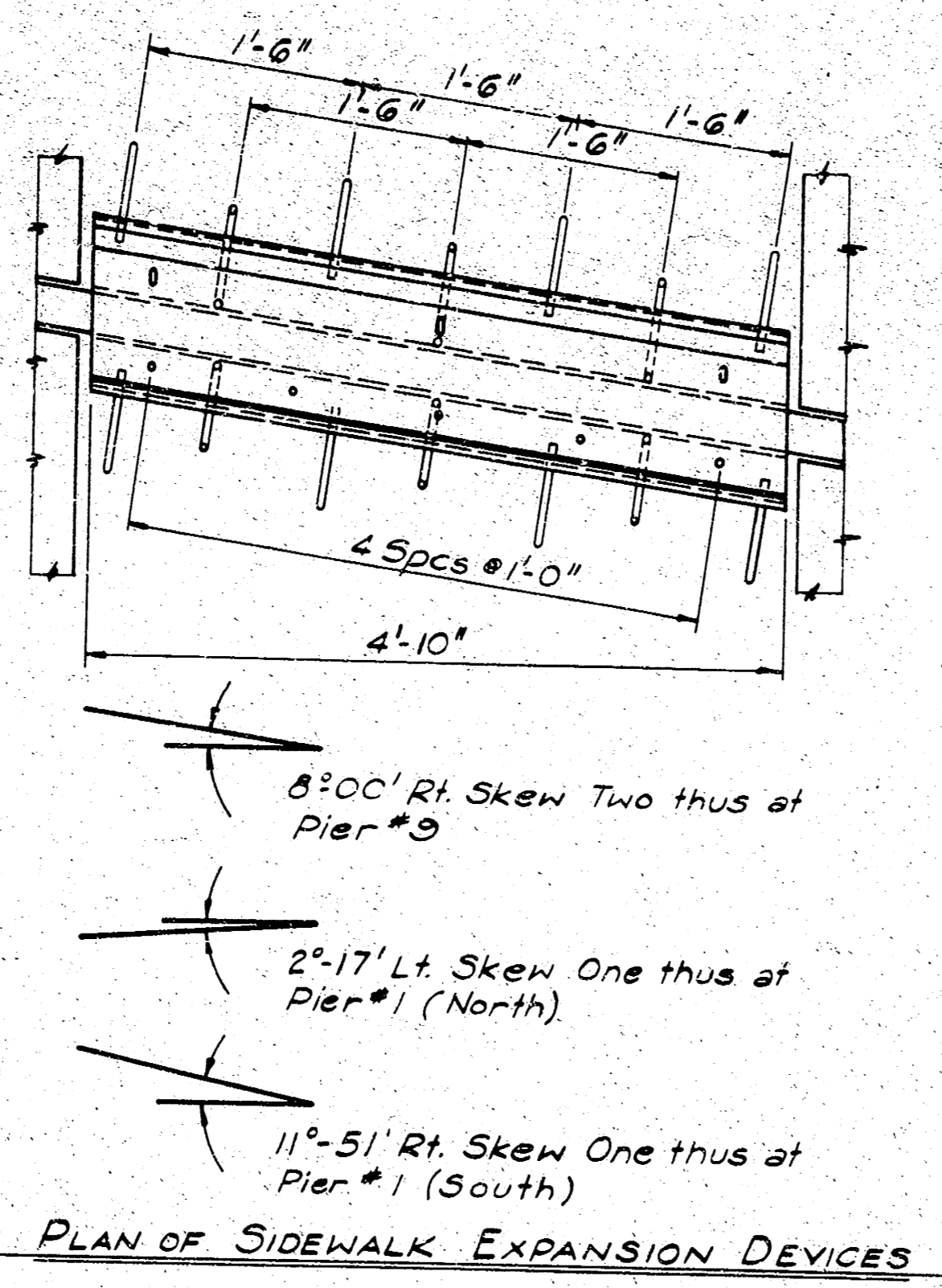
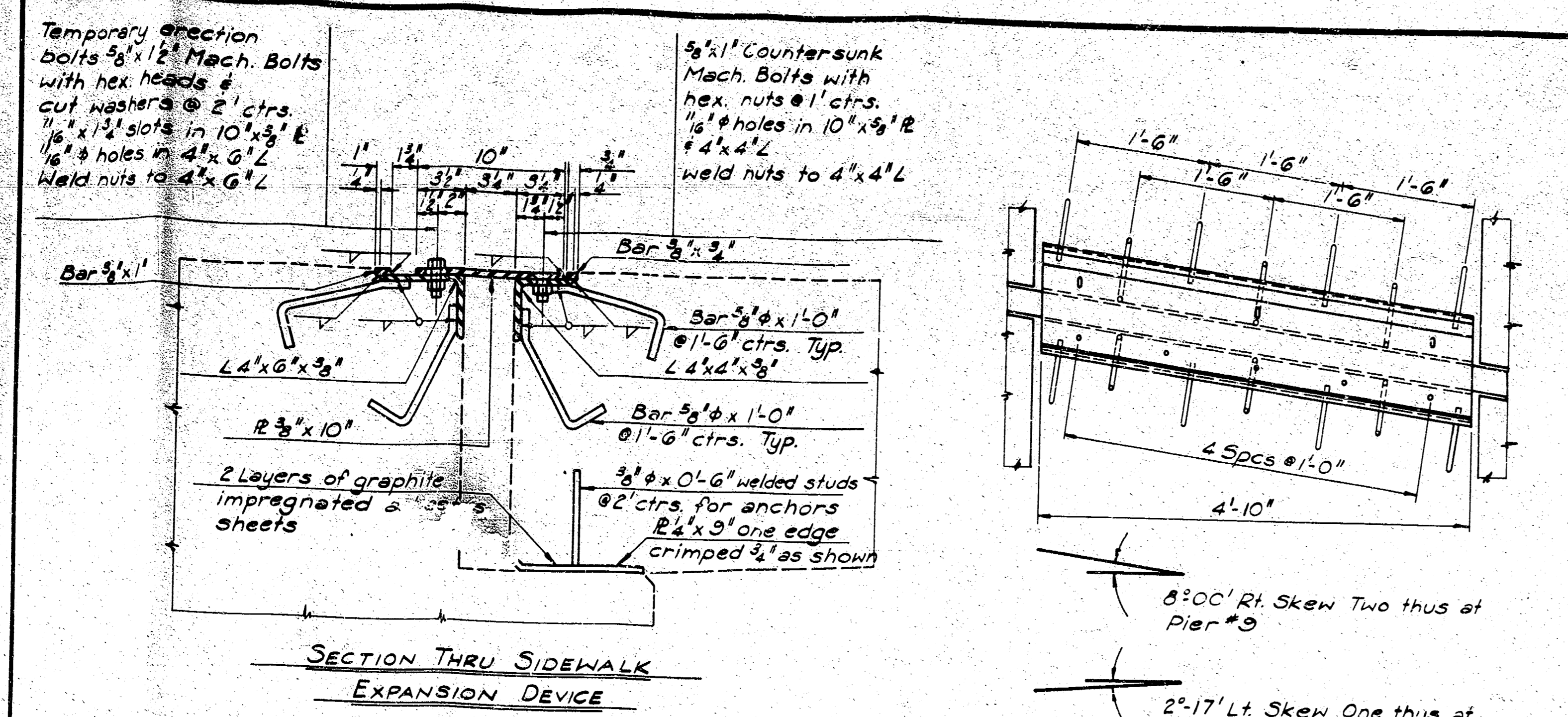
NOTE: In walks for Abut. #2 use ASW1, 2, 3 & 4 and Frames F5 & F9 in appropriate positions.

NOTE: See Sheet 10 for Haunch Ordinates, parallel to Base Line, for all abutment walks.

NOTE:  
 All concrete shall be Class AAA.  
 See Sheet 19 for Bar List and Bending Diagrams.  
 See Sheet 17 for Handrail Details.  
 See Sheet 7 for General Notes.  
 As Built Jan. 1971 C.P.S.

CITY OF WICHITA, KANSAS B. E. SMITH CITY ENGINEER	
LINCOLN STREET BRIDGE AND DAM BIG ARKANSAS RIVER	
<b>SIDEWALK DETAILS</b>	
R. S. DELAMATER CONSULTING ENGINEER WICHITA, KANSAS	DATE December, 1963 SCALE 1/4" = 1'-0" FILE NO. 88-E-16





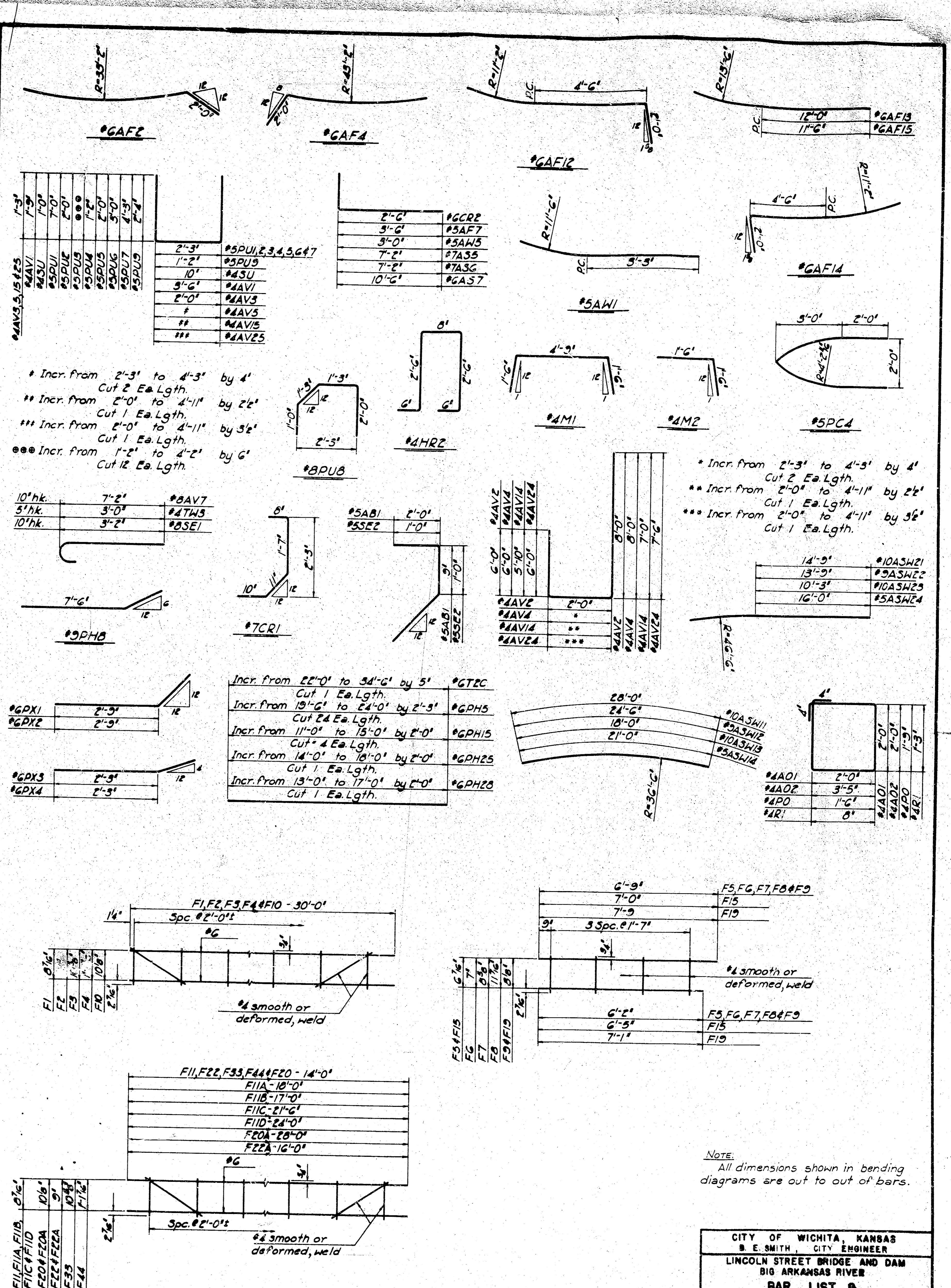
NOTE:  
All parts of expansion and bearing devices are included in the item of Structural Steel.  
See Sheet 7 for General Notes.

CITY OF WICHITA, KANSAS B. E. SMITH, CITY ENGINEER LINCOLN STREET BRIDGE AND DAM BIG ARKANSAS RIVER	
<b>AUXILIARY DETAILS</b>	
R. S. DELAMATER CONSULTING ENGINEER WICHITA, KANSAS	DATE: December, 1968 SCALE: _____ DWG. NO.: 89-E-18

ABUTMENT NO. 1				ABUTMENT NO. 2			
STRAIGHT BARS		BENT BARS		STRAIGHT BARS		BENT BARS	
Mark	No. Req.	Size	Length	Mark	No. Req.	Size	Length
AF1	90	8	37'-0"	AF2	7	6	16'-0"
AF3	7	8	24'-0"	AF4	7	6	14'-0"
AF5	7	6	18'-0"	AF7	12	5	4'-6"
AF6	22	5	10'-0"	AB1	93	5	5'-6"
AR1	12	4	4'-0"	AD1	10	4	8'-8"
AR2	32	4	4'-0"	AD2	33	4	11'-6"
AR3	12	4	10'-0"	AS1	83	10	26'-0"
AS1	83	10	26'-0"	AS2	41	9	23'-0"
AS2	41	9	23'-0"	AS3	41	10	16'-0"
AS3	41	10	16'-0"	AS4	42	5	20'-0"
AS4	42	5	20'-0"	AW1	6	5	12'-0"
AW1	6	5	12'-0"	AW2	26	5	4'-0"
AW2	26	5	4'-0"	AW3	6	5	13'-0"
AW3	6	5	13'-0"	AW4	12	4	7'-0"
AW4	12	4	7'-0"	AV6	210	8	6'-6"
AV6	210	8	6'-6"	D	11	5	2'-6"
D	11	5	2'-6"	M6	4	4	26'-0"
M6	4	4	26'-0"	T2C	31	6	*
T2C	31	6	*	T1	72	6	30'-0"
T1	72	6	30'-0"	T2B	5	6	20'-6"
T2B	5	6	20'-6"	TW1	32	6	6'-9"
TW1	32	6	6'-9"	TW2	48	6	6'-3"
TW2	48	6	6'-3"	BENT BARS (CONT.)			
BENT BARS (CONT.)				ASW11	7	10	28'-0"
ASW11	7	10	28'-0"	ASW12	4	9	24'-6"
ASW12	4	9	24'-6"	ASW13	2	10	18'-0"
ASW13	2	10	18'-0"	ASW14	4	5	21'-0"
ASW14	4	5	21'-0"	ASW21	7	10	26'-6"
ASW21	7	10	26'-6"	ASW22	4	9	23'-6"
ASW22	4	9	23'-6"	ASW23	2	10	16'-6"
ASW23	2	10	16'-6"	ASW24	4	5	20'-6"
ASW24	4	5	20'-6"	ABUTMENT NO. 2			
ABUTMENT NO. 2				AF11	90	8	30'-0"
AF11	90	8	30'-0"	AR1	12	4	4'-0"
AR1	12	4	4'-0"	AR2	32	4	4'-0"
AR2	32	4	4'-0"	AR3	12	4	10'-0"
AR3	12	4	10'-0"	AW1	12	5	12'-0"
AW1	12	5	12'-0"	AW2	22	5	4'-0"
AW2	22	5	4'-0"	T1	72	6	30'-0"
T1	72	6	30'-0"	T2	36	6	14'-0"
T2	36	6	14'-0"	AV6	173	8	6'-6"
AV6	173	8	6'-6"	AS1	75	10	26'-0"
AS1	75	10	26'-0"	AS2	38	9	23'-0"
AS2	38	9	23'-0"	AS3	36	10	16'-0"
AS3	36	10	16'-0"	AS4	38	6	20'-0"
AS4	38	6	20'-0"	M3	20	4	*
M3	20	4	*	MA	7	4	15'-6"
MA	7	4	15'-6"	M6	10	4	26'-0"
M6	10	4	26'-0"	TW1	39	6	6'-9"
TW1	39	6	6'-9"	TW2	54	6	6'-9"
TW2	54	6	6'-9"	ASW1	14	10	26'-0"
ASW1	14	10	26'-0"	ASW2	8	9	23'-0"
ASW2	8	9	23'-0"	ASW3	4	10	17'-0"
ASW3	4	10	17'-0"	ASW4	8	5	21'-0"
ASW4	8	5	21'-0"	* See Bending Diagram			
* See Bending Diagram				* See Bending Diagram			

PIERS 2, 3, 4, 6, 7, 8 (Total for six Piers)				PIER NO. 5				PIER NO. 1				PIER NO. 9			
STRAIGHT BARS		BENT BARS		STRAIGHT BARS		BENT BARS		STRAIGHT BARS		BENT BARS		STRAIGHT BARS		BENT BARS	
Mark	No. Req.	Size	Length	Mark	No. Req.	Size	Length	Mark	No. Req.	Size	Length	Mark	No. Req.	Size	Length
PC1	468	7	22'-0"	PC4	432	5	10'-8"								
PC2	36	7	15'-3"	PC5	504	4	7'-2"								
PC3	384	5	15'-0"	PH1	54	11	40'-0"								
PH1	54	11	40'-0"	PH2	72	6	40'-0"								
PH2	72	6	40'-0"	PH3	108	11	30'-0"								
PH3	108	11	30'-0"	PH4	96	6	15'-0"								
PH4	96	6	15'-0"	PH5	72	6	*								
PH5	72	6	*	PH6	60	11	18'-0"								
PH6	60	11	18'-0"	PH7	60	11	12'-0"								
PH7	60	11	12'-0"	PH8	36	9	13'-0"								
PH8	36	9	13'-0"	PU1	228	5	16'-3"								
PU1	228	5	16'-3"	PU2	432	5	6'-3"								
PU2	432	5	6'-3"	PU3	84	5	*								
PU3	84	5	*	PU4	84	5	4'-7"								
PU4	84	5	4'-7"	PU5	60	5	6'-3"								
PU5	60	5	6'-3"	PU6	2	5	8'-3"								
PU6	2	5	8'-3"	PX1	1010	6	4'-3"								
PX1	1010	6	4'-3"	PX2	48	6	3'-3"								
PX2	48	6	3'-3"	# For Pier No. 2 Only											
# For Pier No. 2 Only				PC11	78	7	22'-0"								
PC11	78	7	22'-0"	PC4	40	5	10'-8"								
PC4	40	5	10'-8"	PC2	64	7	15'-6"								
PC2	64	7	15'-6"	PC3	12	5	15'-9"								
PC3	12	5	15'-9"	PC5	52	5	18'-0"								
PC5	52	5	18'-0"	PH1	9	11	44'-0"								
PH1	9	11	44'-0"	PH2	12	6	40'-0"								
PH2	12	6	40'-0"	PH3	10	11	30'-0"								
PH3	10	11	30'-0"	PH4	16	6	15'-0"								
PH4	16	6	15'-0"	PH5	12	6	*								
PH5	12	6	*	PH6	10	11	18'-0"								
PH6	10	11	18'-0"	PH7	10	11	12'-0"								
PH7	10	11	12'-0"	PH8	6	9	13'-0"								
PH8	6	9	13'-0"	PH9	24	5	40'-0"								
PH9	24	5	40'-0"	PU1	32	5	16'-3"								
PU1	32	5	16'-3"	PU2	72	5	6'-3"								
PU2	72	5	6'-3"	PU3	14	5	*								
PU3	14	5	*	PU4	14	5	*								
PU4	14	5	*	PU5	10	5	6'-3"								
PU5	10	5	6'-3"	PU6	6	5	8'-3"								
PU6	6	5	8'-3"	PX1	164	6	4'-3"								
PX1	164	6	4'-3"	PX2	8	6	3'-3"								
PX2	8	6	3'-3"	PIER NO. 1											
PIER NO. 1				PC11	114	7	12'-0"								
PC11	114	7	12'-0"	PC4	50	5	10'-8"								
PC4	50	5	10'-8"	PC13	10	5	9'-0"								
PC13	10	5	9'-0"	PC23	10	5	10'-0"								
PC23	10	5	10'-0"	PC33	20	5	7'-0"								
PC33	20	5	7'-0"	PH7	10	11	12'-0"								
PH7	10	11	12'-0"	PH8	6	9	13'-0"								
PH8	6	9	13'-0"	PH9	5	11	18'-0"								
PH9	5	11	18'-0"	PU2	138	5	6'-3"								
PU2	138	5	6'-3"	PU3	14	5	*								
PU3	14	5	*	PU4	14	5	4'-7"								
PU4	14	5	4'-7"	PU5	10	5	6'-3"								
PU5	10	5	6'-3"	PU7	27	5	10'-9"								
PU7	27	5	10'-9"	PU8	48	5	5'-6"								
PU8	48	5	5'-6"	PU9	36	4	5'-10"								
PU9	36	4	5'-10"	PX3	172	6	3'-3"								
PX3	172	6	3'-3"	PX4	8	6	2'-9"								
PX4	8	6	2'-9"	PIER NO. 9											
PIER NO. 9				PC11	104	7	12'-0"								
PC11	104	7	12'-0"	PC4	50	5	10'-8"								
PC4	50	5	10'-8"	PC33	40	5	7'-0"								
PC33	40	5	7'-0"	PH7	10	11	12'-0"								
PH7	10	11	12'-0"	PH8	6	9	13'-0"								
PH8	6	9	13'-0"	PH9	5	11	18'-0"								
PH9	5	11	18'-0"	PU2	133	5	6'-3"								
PU2	133	5	6'-3"	PU3	14	5	*								
PU3	14	5	*	PU4	14	5	4'-7"								
PU4	14	5	4'-7"	PU5	10	5	6'-3"								
PU5	10	5	6'-3"	PU7	27	5	10'-9"								
PU7	27	5	10'-9"	PU8	45	5	5'-6"								
PU8	45	5	5'-6"	PU9	34	4	5'-10"								
PU9	34	4	5'-10"	PX3	164	6	3'-3"								
PX3	164	6	3'-3"	PX4	8	6	2'-9"								
PX4	8	6	2'-9"	* See Bending Diagram											
* See Bending Diagram				* See Bending Diagram											

SUPERSTRUCTURE			
STRAIGHT BARS		BENT BARS	
Mark	No. Req.	Size	Length
S1	154	10	33'-6"
S2	76	9	23'-1"
S3	72	10	19'-0"
S4	450	10	44'-0"
S5	228	9	27'-0"
S6	216	10	20'-0"
S7	190	7	18'-6"
S8	76	10	33'-0"
S9	76	11	20'-6"
S10	72	11	13'-0"
S11	74	10	30'-0"
S12	228	5	13'-0"
S13	190	10	33'-0"
S14	185	10	27'-0"
S15	190	11	19'-0"
S16	180	11	12'-0"
SW1	28	10	33'-1"
SW2	16	9	23'-1"
SW3	8	10	19'-0"
SW4	84	10	44'-0"
SW5	48	9	27'-0"
SW6	24	10	20'-0"
SW7	28	7	18'-6"
SW8	16	10	33'-0"
SW9	16	11	20'-6"
SW10	8	11	13'-0"
SW11	12	10	30'-0"
SW12	48	5	13'-0"
SW13	40	10	33'-0"
SW14	30	10	27'-0"
SW15	40	11	19'-0"
SW16	20	11	12'-0"
T1	862	6	30'-0"
T2	326	6	14'-0"
T2A	105	6	20'-0"
D	12	5	2'-6"
M3	76	4	*
M5	50	4	30'-0"
TW1	406	6	6'-9"
TW2	436	6	6'-3"
CR3	8	5	7'-2"
CR4	8	7	7'-2"
CR5	8	5	6'-5"
CR6	8	7	6'-5"
CR13	16	5	6'-9"
CR14	16	7	6'-9"
CR15	16	5	6'-0"
CR16	16	7	6'-0"
CR23	16	5	6'-11"
CR24	8	7	6'-11"
CR25	8	5	6'-2"
CR26	8	7	6'-2"
CR33	8	5	6'-4"
CR34	16	7	6'-4"
CR35	152	5	7'-10"
CR36	152	7	7'-10"
HR3	40	4	4'-6"
HR4	80	4	7'-4"
HR13	95	4	4'-9"
HR14	300	4	7'-10"
HR23	5	4	5'-1"
R1	543	4	4'-6"
SE1	154	8	5'-0"
SU	310	4	2'-10"
M1	243	4	7'-9"
M2	152	4	3'-0"
TW3	1272	4	3'-5"
CR1	588	7	4'-0"
CR2	408	6	3'-0"
F1	20	*	*
F2	28	*	*
F3	28	*	*
F4	28	*	*
F5	16	*	*
F6	28	*	*
F7	28	*	*
F8	28	*	*
F9	4	*	*
F11A	1	*	*
F11B	1	*	*
F22	13	*	*
F22A	1	*	*
F33	14	*	*
F4A	14	*	*
HR2	748	4	6'-8"
* See Bending Diagram			



CITY OF WICHITA, KANSAS  
 R. S. DELAMATER, CITY ENGINEER  
 LINCOLN STREET BRIDGE AND DAM  
 BIG ARKANSAS RIVER  
**BAR LIST & BENDING DIAGRAMS**  
 R. S. DELAMATER, CONSULTING ENGINEER  
 WICHITA, KANSAS  
 December 1968  
 89-E-19