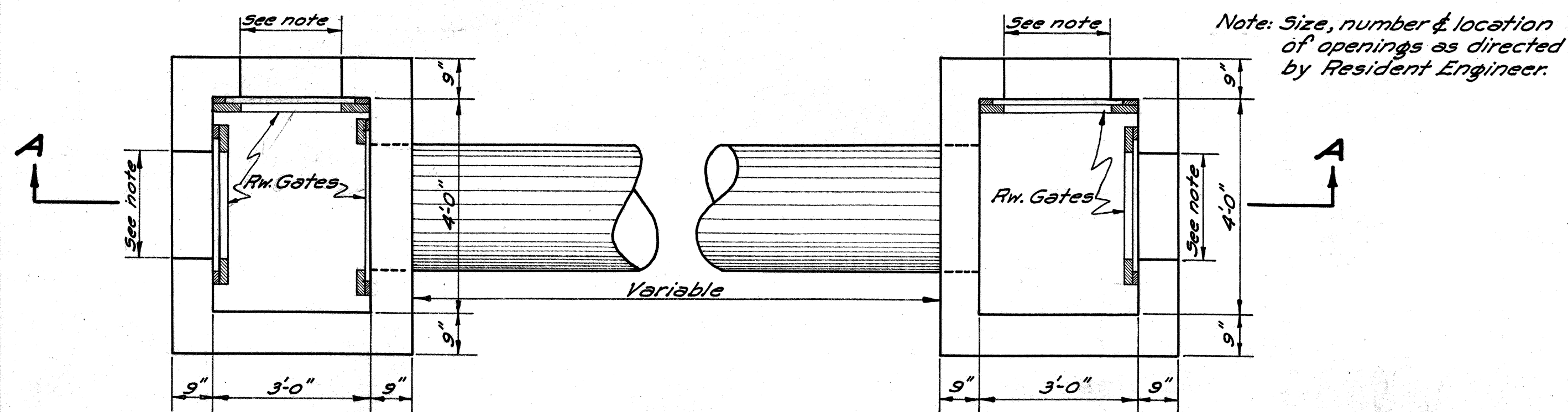
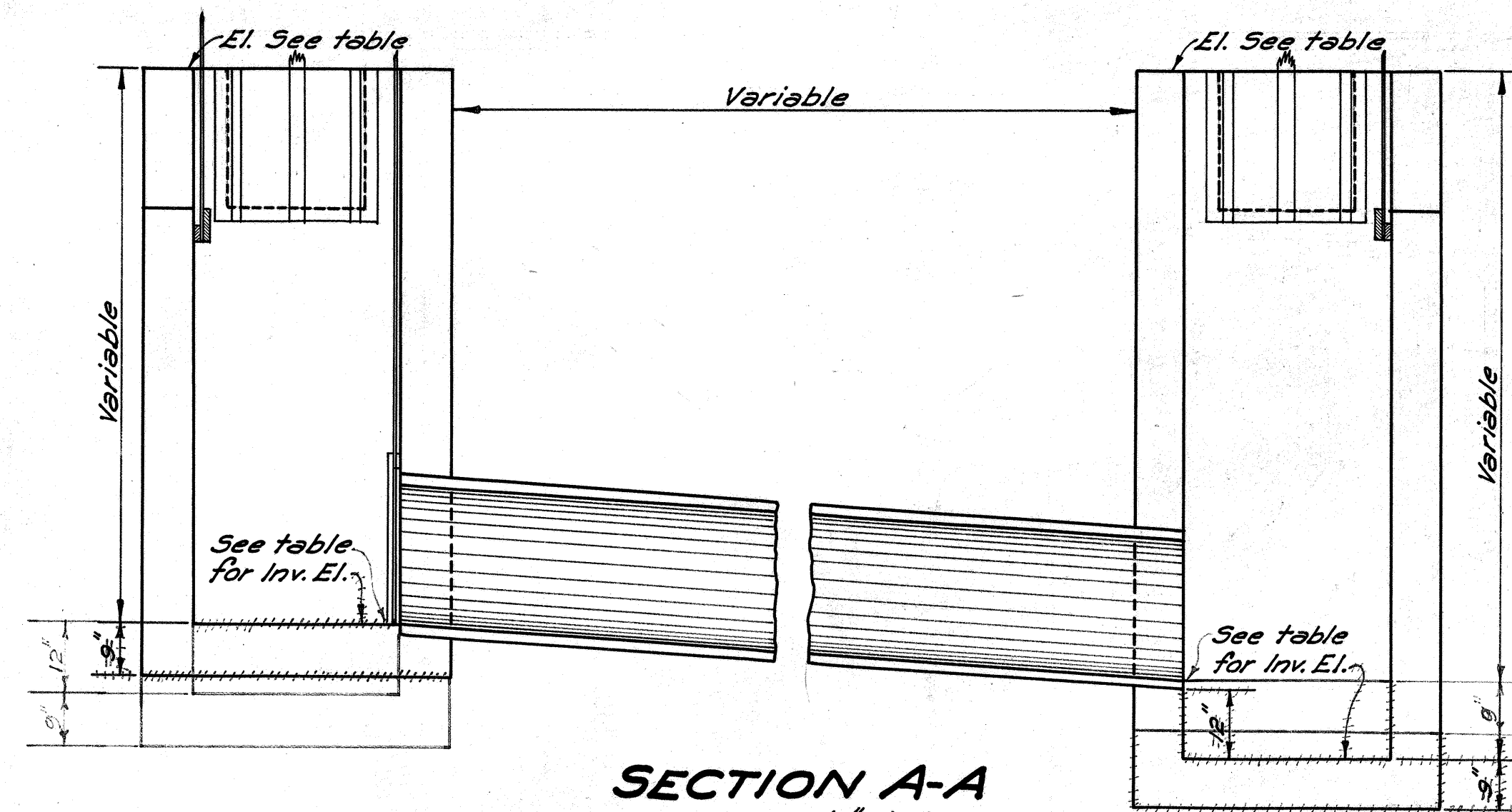




PLAN
Scale: 1/2"=1'-0"

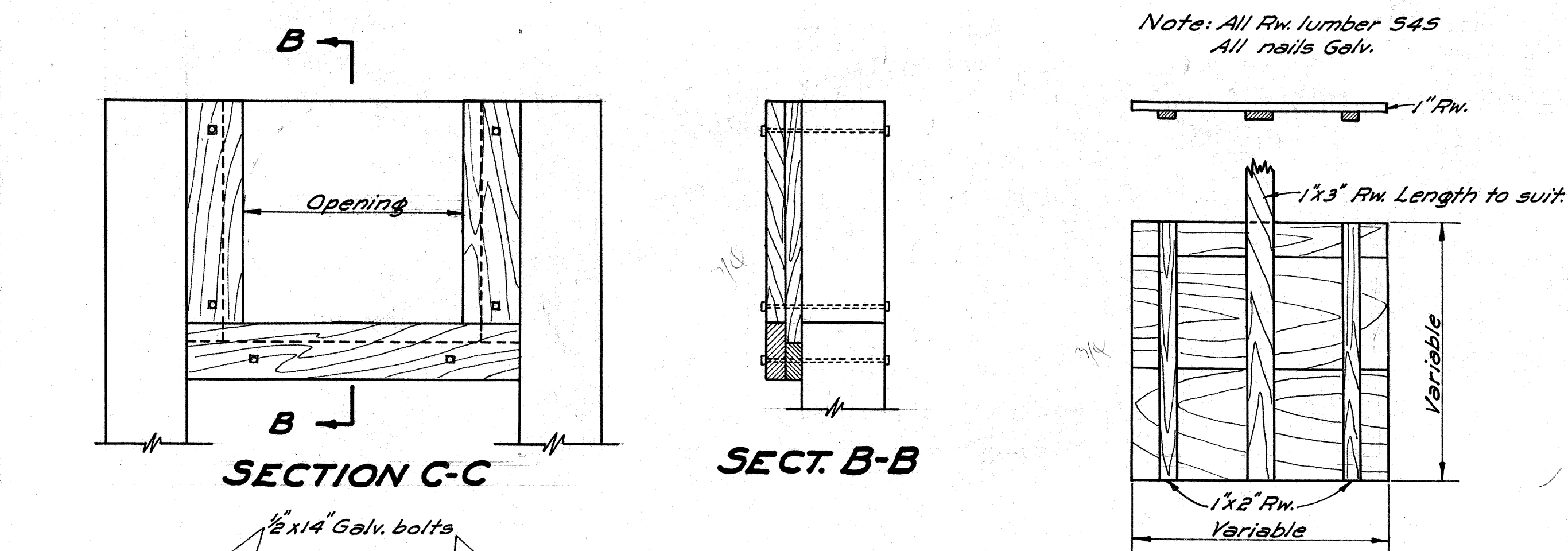


SECTION A-A
Scale: 1/2"=1'-0"
TYPICAL SYPHON DETAILS

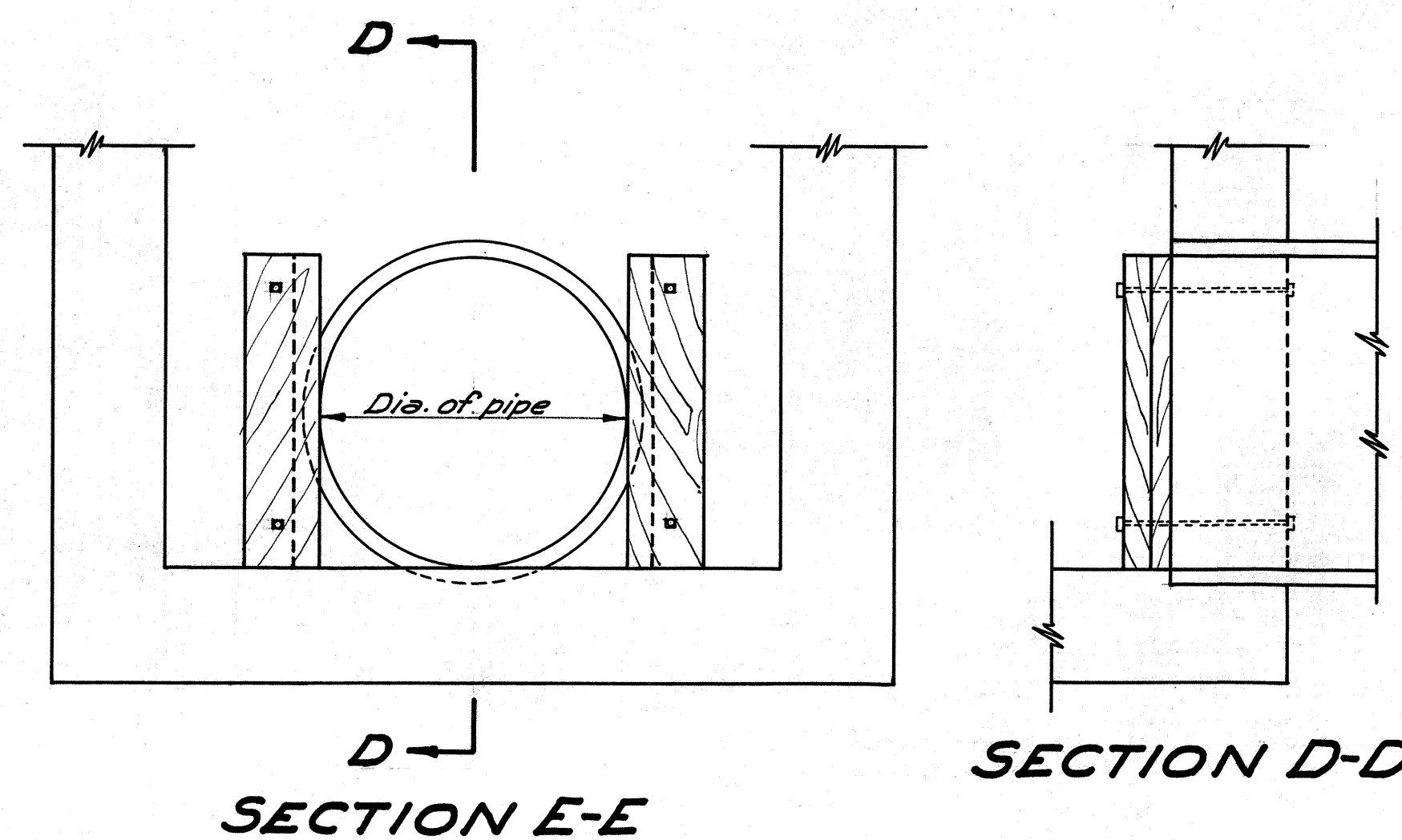
NOTE: All redwood gates are considered incidental to concrete and will not be paid for separately.

HIGHWAY SYPHONS

Station	Line	Station	Exc. C.Y.	Class & Conc. C.Y.	Top Syphon Left	Bot. Syphon Left	Top Syphon Right	Bot. Syphon Right	Redwood Gates req.	Pipe Size	Lin. Ft. req.	Top Syphon Left	Bot. Syphon Left	Top Syphon Right	Bot. Syphon Right
136+60	P	137+00	62.5	5.7	609.5	609.5	606.2	601.5	4 3	24"	60	612.3	604.5	608.4	603.5
180+00	P	180+40	74.0	8.0	428.0	419.0	427.5	417.8	4 3	24"	60	430.5	418.6	429.9	418.5
193+03	P	194+15	77.3	6.8	390.5	381.8	389.5	380.6	3 4	18"	60	405.3	385.7	403.0	385.2
199+72	P	199+90	144.0	8.5	358.0	348.0	356.0	346.7	0 4	24"	64	361.6	349.0	362.4	348.8
214+79	P	214+80	62.0	5.9	264.0	257.0	261.5	255.8	3 4	18"	60	265.7	256.6	267.6	256.4
247+00	P	247+30	74.0	6.0	125.5	114.5	117.0	113.2	0 2	18"	60	128.5	115.2	119.2	114.7
265+92	P	265+90	66.0	5.6	44.5	40.5	44.0	37.5	0 3	24"	64	46.4	40.4	45.3	39.3
56+40	# 1A(R)	56+50	62.0	5.6	50.0	40.0	50.0	42.0	2 3	18"	60	50.0	41.4	51.2	41.6
		Totals	531	54.8					26	24"-248" 18"-360"					
147+06	P		271	12					4	18"	60	365.8	562.3	565.7	562.0
162+91	P		700	10					4	18"	60	486.9	478.5	483.6	477.7
Totals			726.8	92.46					24						



WOODEN GATE & SUPPORT DETAILS
Scale: 1/2"=1'-0"



PLAN
GATE SUPPORT DETAILS AT PIPE
Scale: 1/2"=1'-0"

IRRIGATION SYPHONS

NOTE: For details of intakes and outlets for all sizes of concrete pipe siphons see "Standard concrete drop intake for irrigation ditches," using details required for 18" culvert in all cases. Allow a minimum of one foot covering over top of pipe and a minimum of 6" fall between intake and outlet grades. Number of Redwood gates required shall be determined by the Resident Engineer. Not more than 3 gates will be required per siphon. No 1/2" x 4" and 2" x 6" framing required, gates only.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

SYPHON DETAILS

Wahiana-Waialua Rd. F.A.P 21-B