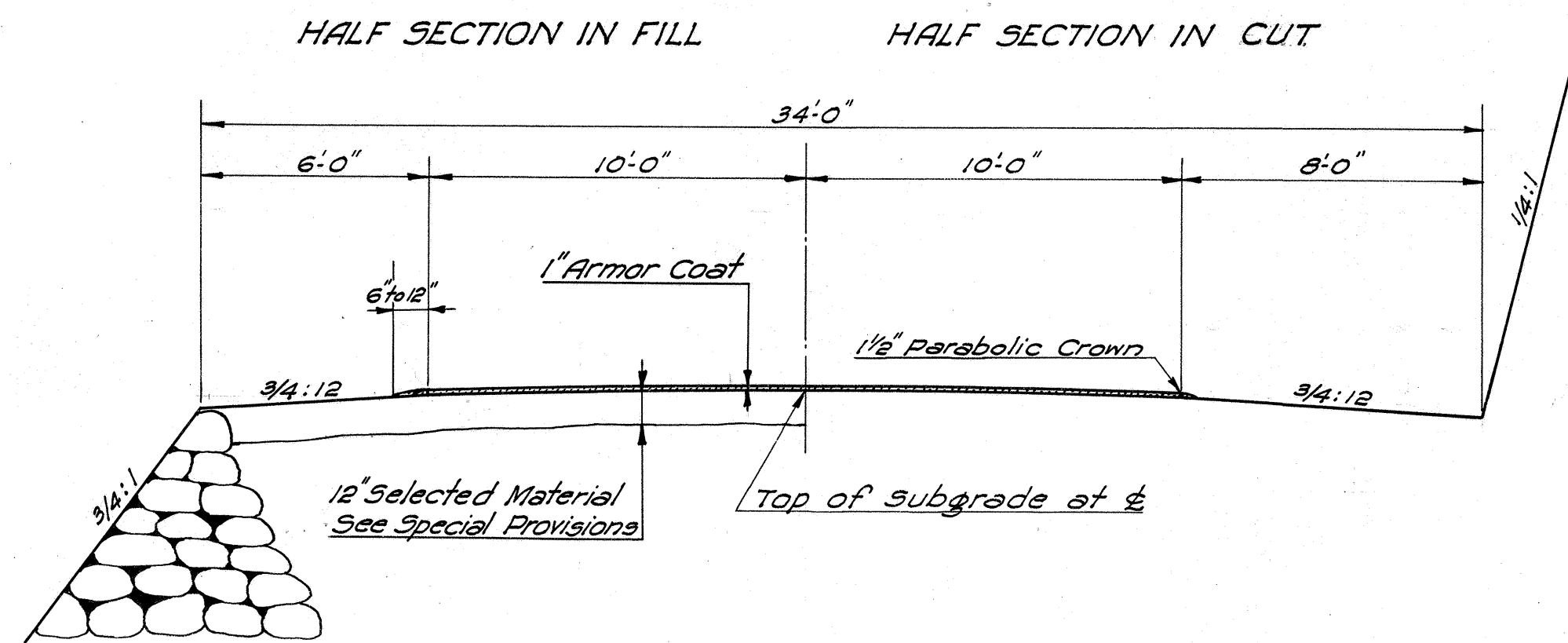


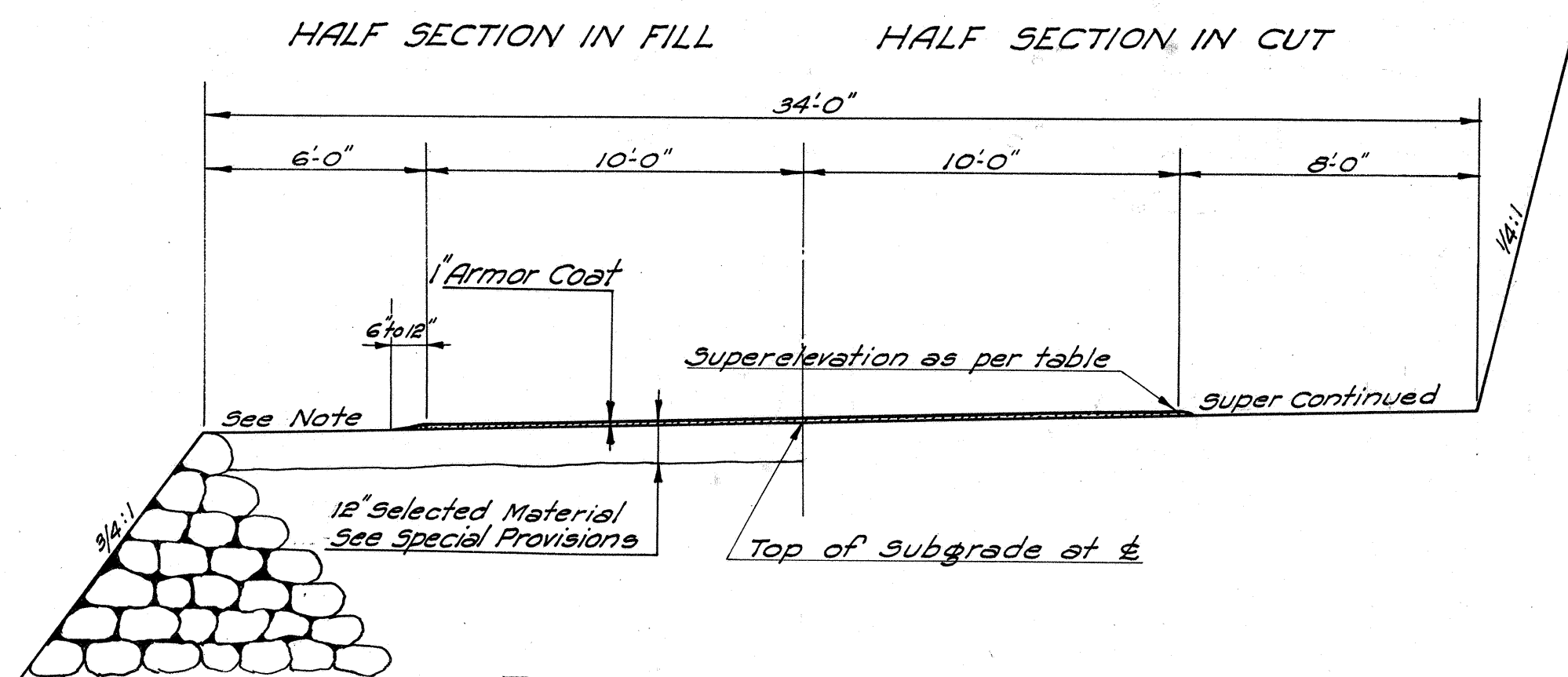
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	4479.2	1938	2	44

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	4478.2	1938	2	15



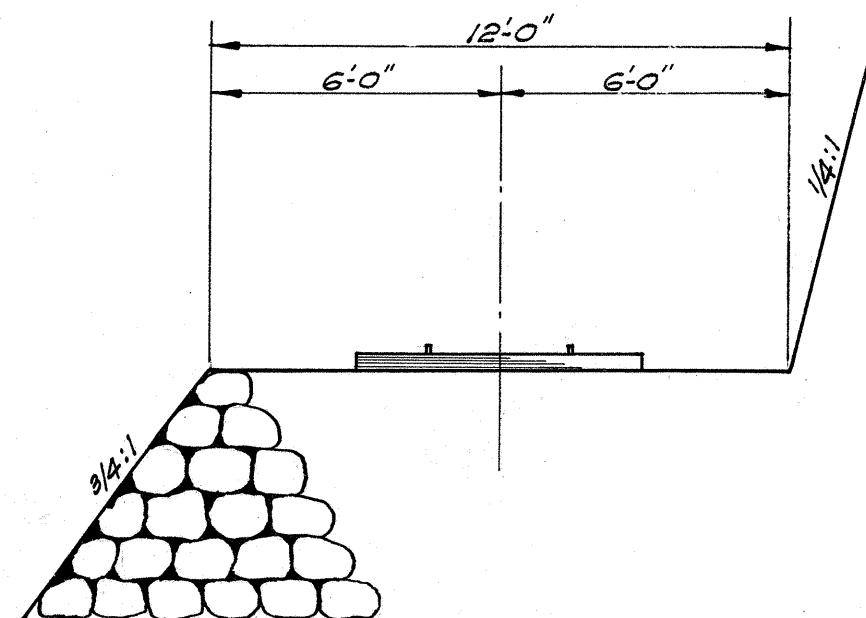
TYPICAL SECTION ON TANGENTS
Scale: 1/4"=1'-0"

NOTE: No rounding of Cut Slopes required.



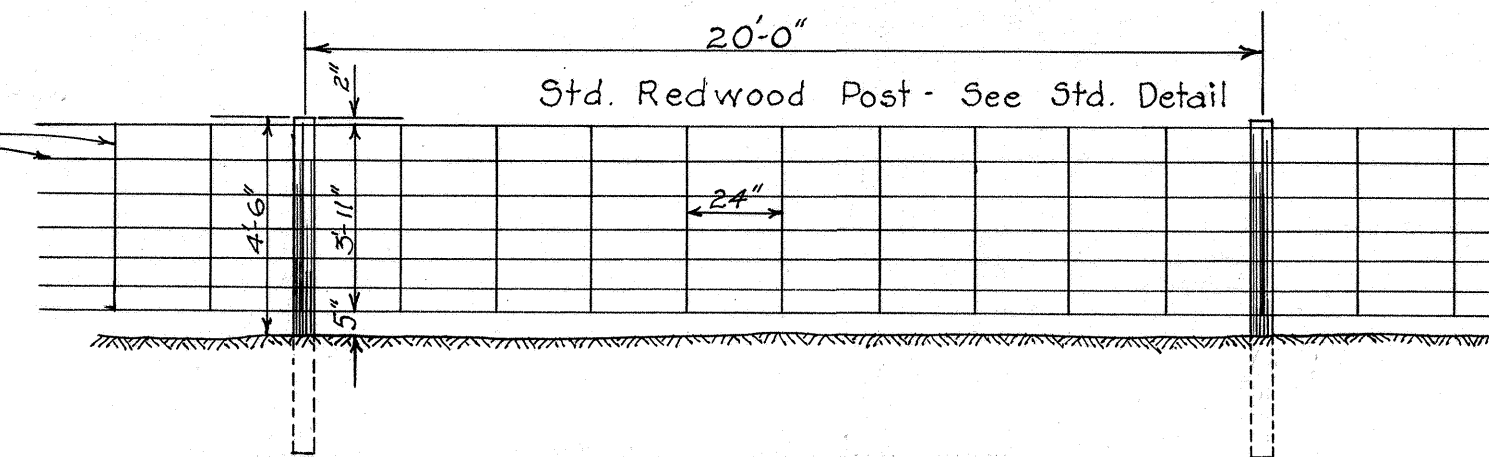
TYPICAL SECTION ON CURVES
Scale: 1/4"=1'-0"

NOTE: When super is less than 0.063 ft. per ft. shoulder slope is 3/4:1. When super is equal to or greater than 0.063 ft. per ft. shoulder slope is the same as the rate of the super. This note applies only to the shoulder on the lower side of the super.

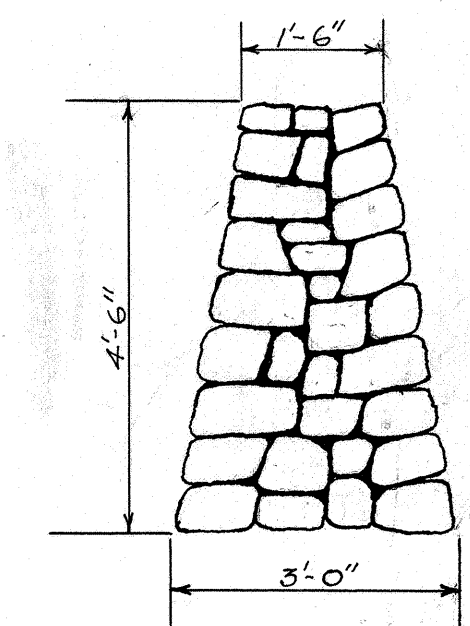


TYPICAL RAILROAD SECTION
Scale: 1/4"=1'-0"

7 strands with stays 24" o.c.
All wire #7 Gauge Galv. Wire.



TYPICAL DETAIL OF WOVEN WIRE FENCE
Scale: 1/4"=1'



RECONSTRUCTED STONEWALL FENCE
Scale: 1/2"=1'

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
QUANTITIES CHECKED BY	
NOTED BY	
NO.	

NOTE: This sheet is for the use of the Resident Engineer only, and not for the Contractor's use.

QUANTITY & COST CONTROL SHEET

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FAP18C(1)	1938	2-A	44

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FAGH18D	1938	2-A	15

ITEM NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
ITEM	Unclassified Excavation	Unclass. Exc. for Structures other than at Bridges	Unclass. Exc. for Structures at Bridges	Sta. Yard Overhaul	Mid. Yard Overhaul	Liquid Asphaltic Primer	Bituminous Binder	Coarse Rock	Keystone	Fine Screenings	Rock Sand	Class "A" Conc. in Bridges	Class "B" Conc. in Bridges	Reinforcing Steel in Bridges	Reinforcing Steel in Bridges	Cement Rubble Masonry	36" Concrete Pipe Culvert	Std. Wood Guard Rail	Woven Wire Fence	Reconstructed Stone Wall Fence	New Gates	Centerline Monuments	Federal Aid Markers	Additional No. plates for F.A. Marker	Treated Timber	Waterproofing Part for Timber Bridge Decks	Partial Waterproofing for Timber Bridges	Filler		
UNIT	C.Y.	C.Y.	C.Y.	Sta. Yd.	Mid. Yd.	Gal.	Ton	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	Lb.	Lb.	C.Y.	Lin. Ft.	Lin. Ft.	Lin. Ft.	C.Y.	Each	Each	Each	Each	M.B.M.	C.Y.	Each	C.Y.		
Roadway Prism	81,023			12,165	5,300.8	26,025	315.3	2082.0	1094.9	821.8	229.1							760	33,770		13	20	1	1				4000		
Drives & Approaches	10					28	0.3	2.2	0.6	0.4	0.2																	4		
PUNALUU BRIDGE	Piers & Abutments		40									7.3		352	81.0															
	Superstructure						0.4	2.3	0.7	0.4	0.2	52.6		9,726																
WINDOLE BRIDGE	Piers & Abutments		80									14.8		630	230										3,456					
	Superstructure						0.1				0.2														22,201	10	1			
HILES BRIDGE	Piers & Abutments		25									11.9		371	131.7										1,484					
	Superstructure						0.1				0.2														15,017	7	1			
STRUCTURES	Sta. 433+60 36" Circ. Conc. Culvert 2-M.H.W.	5														5.44	50													
	Sta. 459+50 36" Circ. Conc. Culvert 2-M.H.W.	5														5.44	38													
Roadway Prism	4,709	25		3,460	644.5	2434	29.5	194.7	105.6	74.8	20.9							660	660		1	3	1	1				370		
Drives & Approaches	115					245	3.0	19.6	5.6	3.5	2.1																	2		
Railroad Prism	3,624																													
OVERPASS	Piers & Abutments		210									726		4325	20.0															
	Superstructure						0.5	3.3	0.9	0.6	0.4	734		7,960																
STRUCTURES	Sta. 751+80 to 760+70 (11) Stone Wall Fence																			334										
	Sta. 758+25 to 760+30 (11) Stone Wall Fence																			77										
STRUCTURES	Sta. 758+75 36" Circ. Conc. Culvert 2-C.D.I.	20									4.14					34														
	Sta. 766+75 36" Circ. Conc. Culvert 2-C.D.I.-CHN.	30									4.71		60			38														
MISCELLANEOUS	519	10	10	375	547	68	1.8	10.9	21.7	18.5	2.7	1.15	12.4	15	236	11.42	0	30	570	14	0	2	0	0	0.842	1	0	24		
TOTAL	90,000	95	365	16,000	6,000.0	28,800	351.0	2,315.0	1,230.0	920.0	250.0	10.0	265.0	75	25,800	485.0	160	1,450	33,000	425	14	25	2	2	43.0	18	2	4400		
CORR. TOTAL																														
CONTROL																														
UNIT PRICE																														
ITEM NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

F.A.P. 18-C (1)

WOVEN WIRE FENCE

STD. WOOD GUARD RAIL

FROM STA.	TO STA.	REMARKS	LENGTH Lin. Ft.	FROM STA.	TO STA.	REMARKS	LENGTH Lin. Ft.
425+65	498+00	1 ft. & rt.	13,970	430+00	434+60	rt.	460
615+00	690+00	1 ft. & rt.	15,000	700+00	703+00	1 ft.	300
724+00	748+50	1 ft. & rt.	4,900				
TOTAL 33,770				TOTAL @ 760			

F.A.G.H. 18-D (1)

WOVEN WIRE FENCE

STD. WOOD GUARD RAIL

FROM STA.	TO STA.	REMARKS	LENGTH Lin. Ft.	FROM STA.	TO STA.	REMARKS	LENGTH Lin. Ft.
748+50	751+80	1 ft. & rt.	660	765+60	765+80 Approach	rt. on	50
				765+90	772+00	1 ft.	610
TOTAL 660				TOTAL 660			

4479.2A 4478.2A