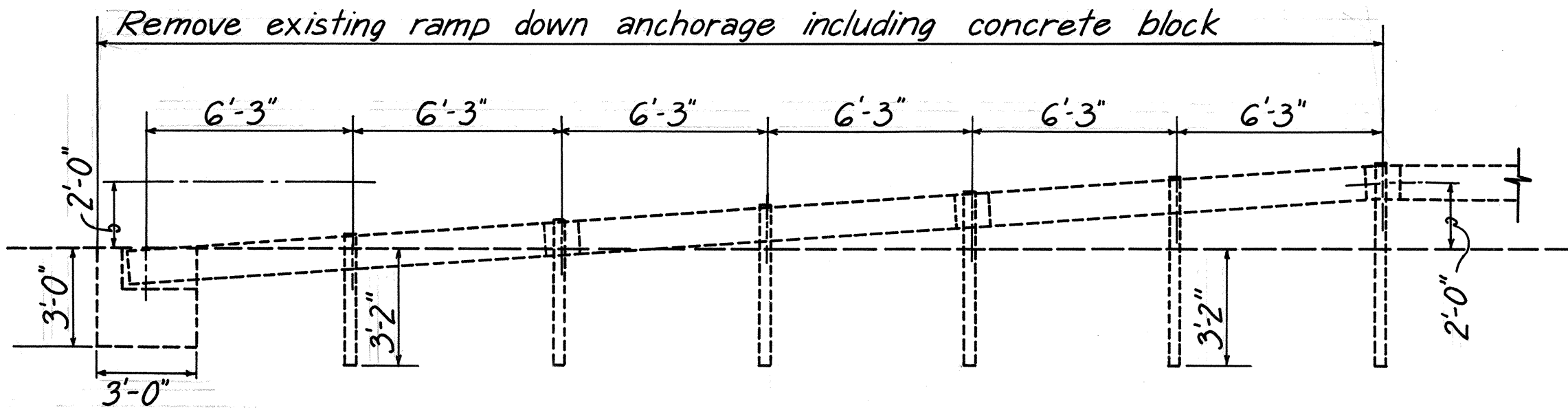


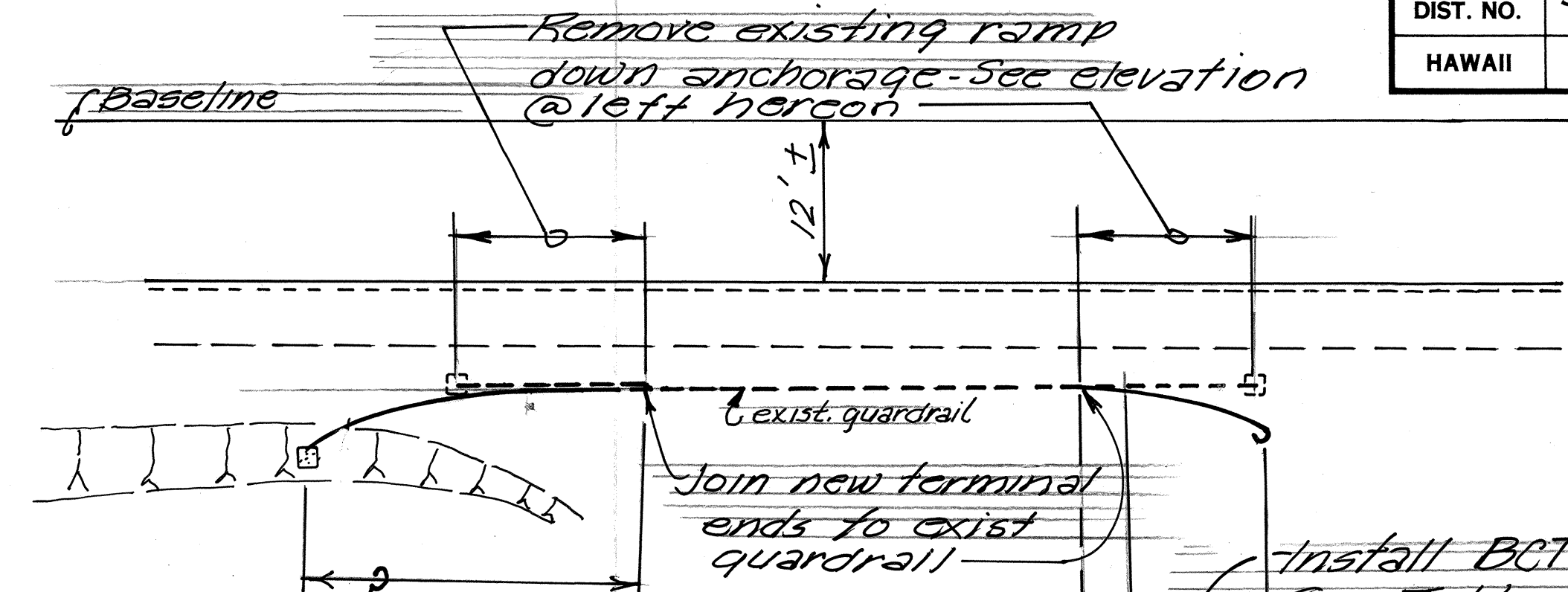
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-056-1(34)	1995	8	9



ELEVATION
REMOVAL OF RAMP DOWN ANCHORAGE

- Notes:
1. For installation of new end terminals see table below
 2. Removals to be paid for under Item No. 202.0420 - Removal of guardrail & posts.

Scale: 1/4" = 1'-0"



Install Type C or F flare - See Table below
Paid for under Item No. 606.311 - Guardrail, Type B, single w/ stl. post & spacer

Install BCT terminal end (25')
See Table below
Paid for under Item No. 606.7000 Terminal Section, Type BCT

Install guardrail, Type B, single w/ stl. post & spacer, length varies
See table herein

PLAN
INSTALLATION OF NEW TERMINAL ENDS

Scale: 1" = 10'

KUHIO HIGHWAY
GUARDRAIL REMOVAL AND INSTALLATION DATA

Location	Guardrail Removal		Guardrail Installation			
Approx. Milepost	Approx. Sta. Limits (Ramp Down Anchorages)		Removal Length (ft.)	Approx. Sta. Limits (incl. terminal end lengths)	Guardrail, type 3, single w/ steel post (ft.)	Terminal End Type
23.09	Sta. 31+30 to Sta. 31+67.5	L/S	37.5	Sta. 31+17.5 to Sta. 31+67.5	25'	BCT (25')
23.05	Sta. 33+62.5 to Sta. 34+00	L/S	37.5	Sta. 33+62.5 to Sta. 34+00	62.5'	BCT (25')
22.95	Sta. 38+10 to Sta. 38+47.5	R/S	37.5	Sta. 38+10 to Sta. 38+47.5		BCT (25')
22.88	Sta. 42+57.5 to Sta. 42+95	L/S	37.5	Sta. 42+57.5 to Sta. 42+95	12.5'	BCT (25')
22.84	Sta. 43+62.5 to Sta. 44+00	R/S	37.5	Sta. 43+62.5 to Sta. 44+00	87.5'	Type F
19.76	Sta. 19+15 to Sta. 19+52.5	R/S	37.5	Sta. 19+15 to Sta. 19+52.5	37.5'	Mod. Type G
19.70	Sta. 22+62.5 to Sta. 23+00	R/S	37.5	Sta. 22+62.5 to Sta. 23+00	87.5'	Type F
19.77	Sta. 19+20 to Sta. 19+57.5	L/S	37.5	Sta. 19+20 to Sta. 19+57.5	12.5'	BCT (25')
19.68	Sta. 23+12.5 to Sta. 23+50	L/S	37.5	Sta. 23+12.5 to Sta. 24+00	87.5'	Type C
19.61	Sta. 27+50 to Sta. 27+87.5	L/S	37.5	Sta. 27+50 to Sta. 27+87.5	212.5'	Type F Flare
19.54	Sta. 31+42.5 to Sta. 31+80	L/S	37.5	Sta. 31+42.5 to Sta. 31+80	212.5'	Type C Flare
18.93	Sta. 65+90 to Sta. 66+27.5	R/S	37.5	Sta. 65+90 to Sta. 66+40	50'	Type F
18.83	Sta. 68+85 to Sta. 69+22.5	L/S	37.5	Sta. 68+85 to Sta. 69+22.5	50'	Type F
18.76	Sta. 72+42.5 to Sta. 72+80	L/S	37.5	Sta. 72+42.5 to Sta. 72+80	37.5'	Mod. Type G
18.77	Sta. 71+10 to Sta. 71+47.5	R/S	37.5	Sta. 71+10 to Sta. 71+47.5	37.5'	Mod. Type G
18.72	Sta. 74+32.5 to Sta. 74+70	R/S	37.5	Sta. 74+32.5 to Sta. 74+70	37.5'	Mod. Type G
18.12	Sta. 106+50 to Sta. 106+87.5	L/S	37.5	Sta. 106+50 to Sta. 106+87.5	112.5'	BCT (25')
18.09	Sta. 107+77.5 to Sta. 108+15	L/S	37.5	Sta. 107+77.5 to Sta. 108+52.5	75.0'	Type C
18.10	Sta. 107+05 to Sta. 107+42.5	R/S	37.5	Sta. 106+80 to Sta. 107+42.5	62.5'	Type C
18.08	Sta. 107+97.5 to Sta. 108+35	R/S	37.5	Sta. 107+97.5 to Sta. 108+60	62.5'	Type F
18.01	Sta. 115+45 to Sta. 115+82.5	R/S	37.5	Sta. 115+32.5 to Sta. 115+82.5	50'	Type C
17.99	Sta. 117+67.5 to Sta. 118+05	R/S	37.5	Sta. 117+67.5 to Sta. 118+17.5	50'	Type F
17.94	Sta. 119+30 to Sta. 119+67.5	L/S	37.5	Sta. 119+05 to Sta. 119+67.5	62.5'	Type F

Location	Guardrail Removal		Guardrail Installation			
Approx. Milepost	Approx. Sta. Limits (Ramp Down Anchorages)		Removal Length (ft.)	Approx. Sta. Limits	Guardrail, type 3, single w/ steel post (ft.)	Terminal End Type
17.94	Sta. 119+00 to Sta. 119+37.5	R/S	37.5	Sta. 118+75 to Sta. 119+37.5	62.5'	Type C
17.90	Sta. 120+82.5 to Sta. 121+20	R/S	37.5	Sta. 120+82.5 to Sta. 121+32.5	50'	Type F
17.87	Sta. 122+10 to Sta. 122+47.5	R/S	37.5	Sta. 121+85 to Sta. 122+47.5	62.5'	Type C
17.83	Sta. 123+52.5 to Sta. 123+90	R/S	37.5	Sta. 123+52.5 to Sta. 124+15	62.5'	Type F
17.87	Sta. 122+10 to Sta. 122+47.5	L/S	37.5	Sta. 121+97.5 to Sta. 122+47.5	50'	Type F
17.83	Sta. 123+52.5 to Sta. 123+90	L/S	37.5	Sta. 123+52.5 to Sta. 124+15	62.5'	Type C
17.56	Sta. 135+50 to Sta. 135+87.5	R/S	37.5	Sta. 135+50 to Sta. 135+87.5	37.5'	Type C
17.54	Sta. 136+70 to Sta. 137+07.5	L/S	37.5	Sta. 136+70 to Sta. 137+07.5	37.5'	Mod. Type G
17.32	Sta. 148+52.5 to Sta. 148+90	L/S	37.5	Sta. 148+52.5 to Sta. 148+90	112.5'	BCT (25')

Totals = 1200' 2062.50' 7-BCT
RM-1 = 35 each (this sheet)
RM-3 = 81 each (this sheet)

ADDITIONAL GUARDRAIL IMPROVEMENT DATA

20.25	100+80 - Remove ex. Flare	L/S	—	100+80 - 101+05	25	BCT (25')
20.25	101+70 - Remove ex. Flare	R/S	—	101+70 - 102+32.5	62.5	Type F
21.26	46+50 - Remove ex. Flare	R/S	—	46+50 - 47+00	50	Type F
21.36	43+30 - 43+05	L/S	25	43+05 - —	—	BCT (25')
21.63	27+80 - Remove ex. Flare	R/S	—	27+80 - 28+30	50	Type F
21.86	16+00 - Remove ex. Flare	R/S	—	16+00 - 16+50	50	Type F
21.86	16+70 - Remove ex. Flare	L/S	—	16+70 - 17+07.50	37.5	Type C

Totals = 25' 275' 2-BCT

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DETAILS & SCHEDULES
ROUTE 56, KUHIO HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
AT VARIOUS LOCATIONS
F.A. Proj. No. STP-056-1(34)
Scale: As shown June, 1994
SHEET NO. 8 OF 9 SHEETS

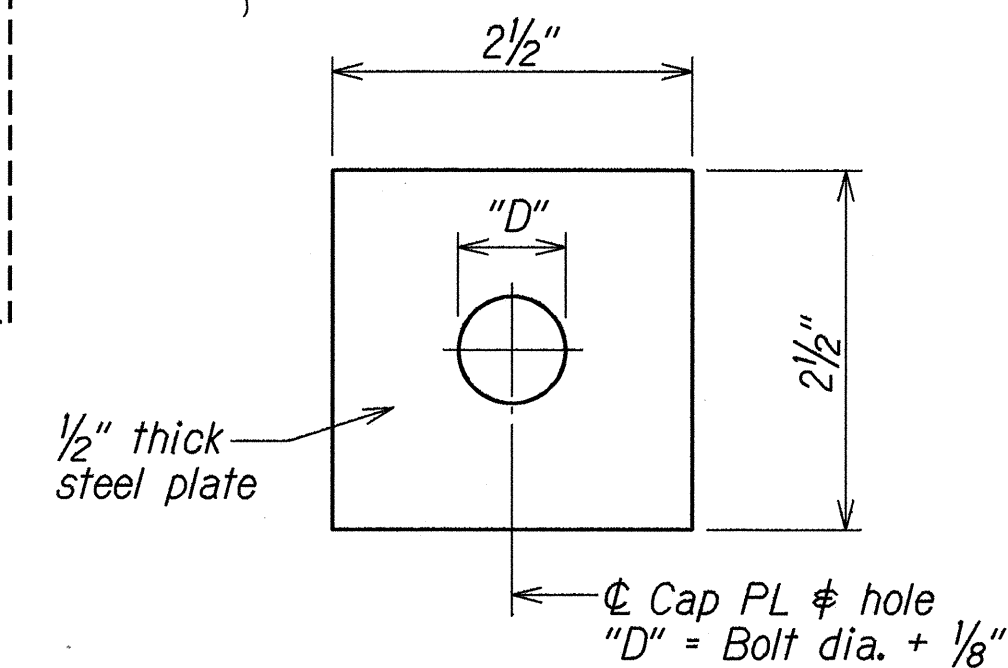
Continued @

DATE _____
SURVEY PLOTTED BY _____
DRAWN BY _____
DESIGNED BY _____
CHECKED BY _____
ORIGINAL PLAN _____
NOTE BOOK _____
QUANTITIES BY _____
No. _____

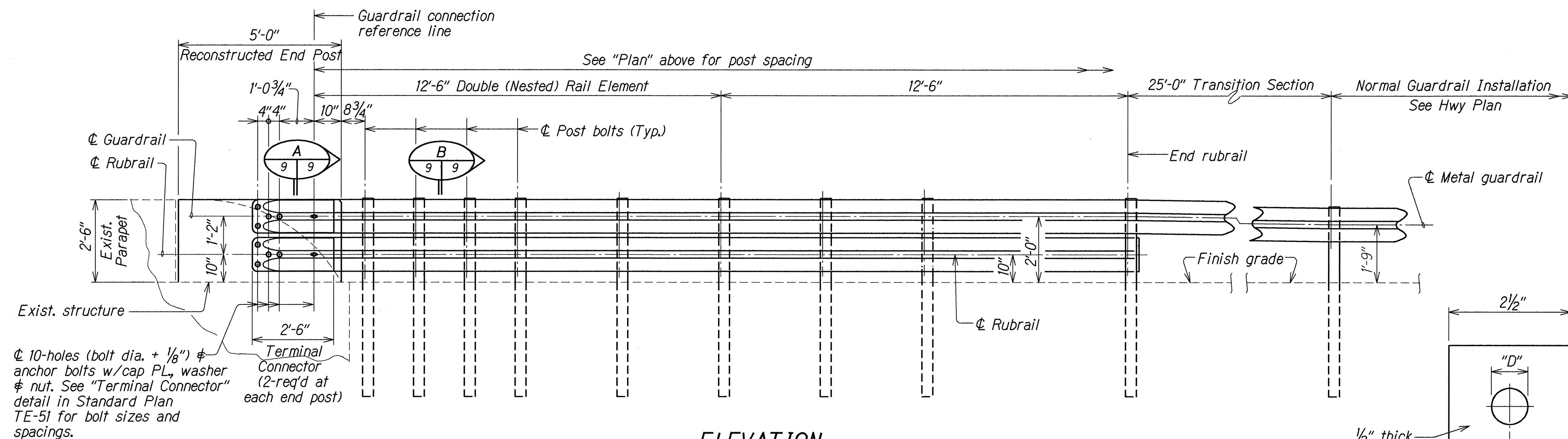
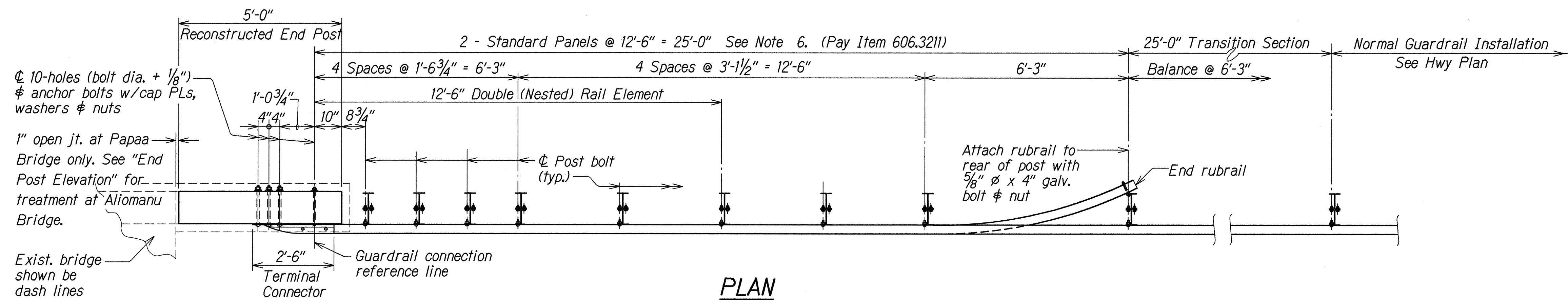
NOTES

- ### ESTIMATED QUANTITIES

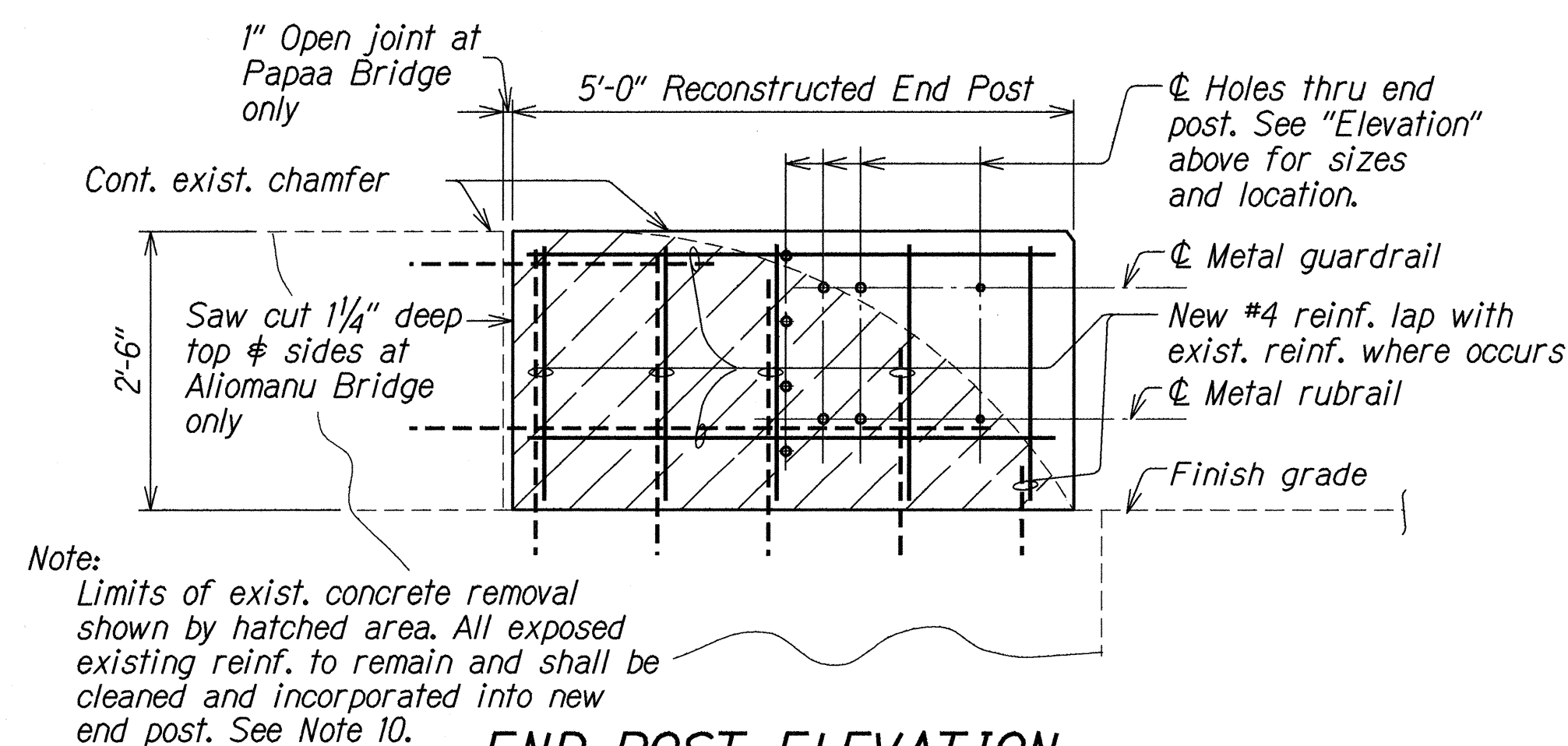
CAP PLATE DETAIL



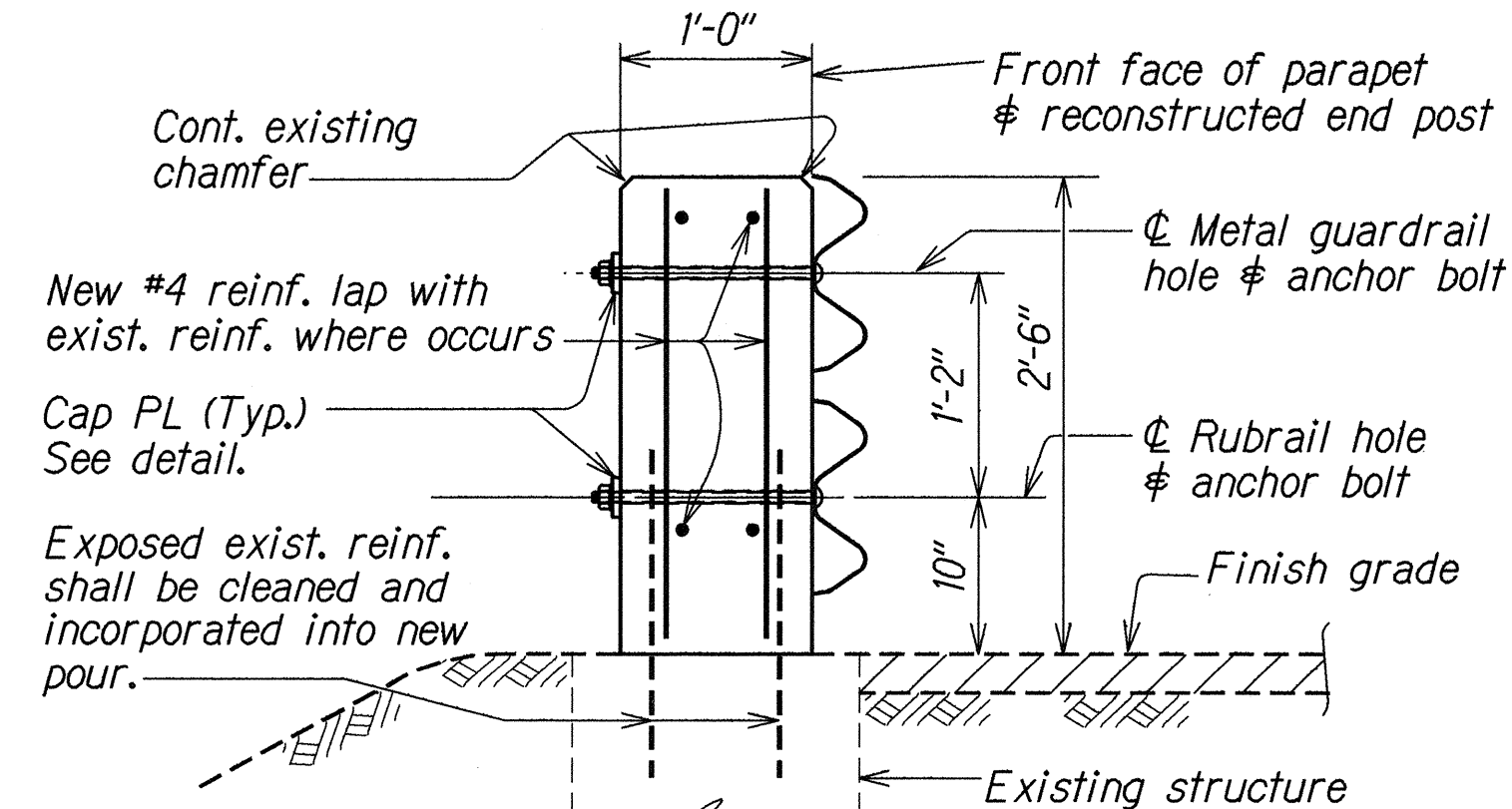
Scale: $\frac{1}{2}'' = 1'-0''$



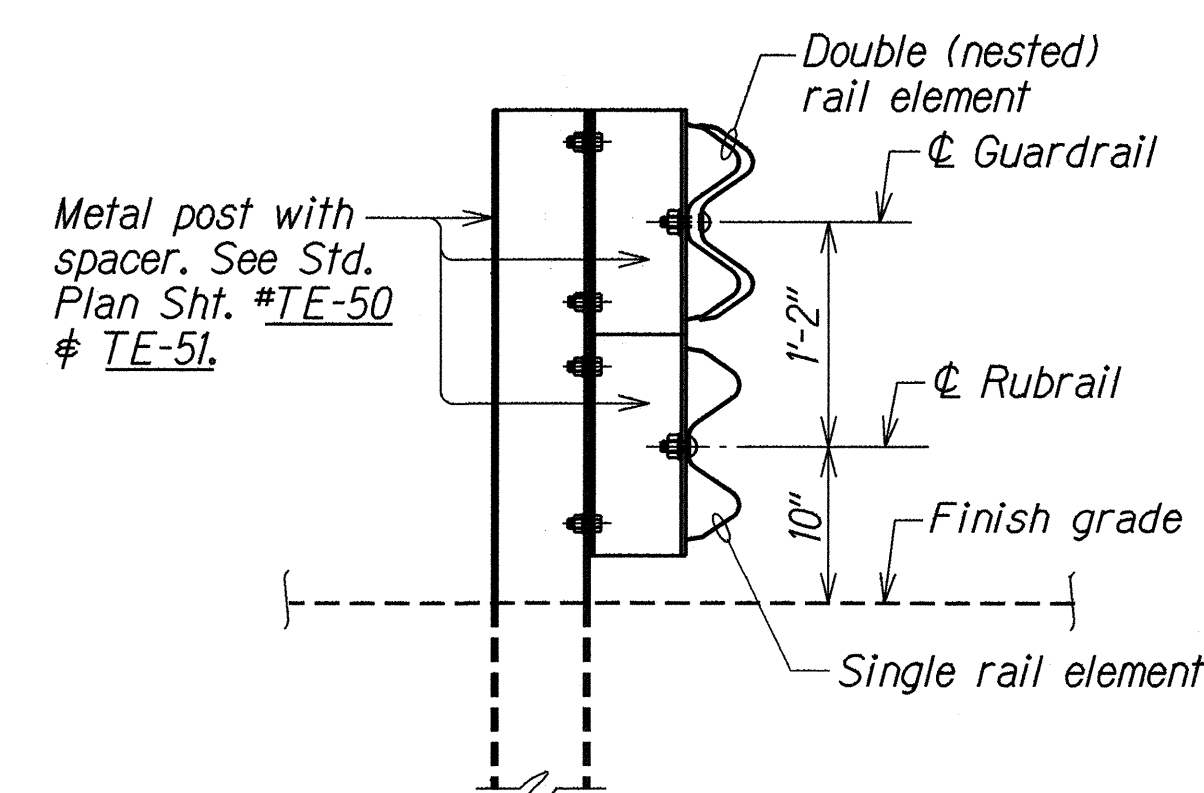
PARAPET END POST RECONSTRUCTION



SECTION



SECTION



Scale: 1" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAPAA AND ALIOMANU BRIDGES
GUARDRAIL INSTALLATION & END POST RECONSTRUCTION DETAILS
ROUTE 56 - KUHIO HIGHWAY
GUARDRAIL AND SHOULDER IMPROVEMENTS AT VARIOUS LOCATIONS
Fed. Aid Project No. STP-056-1(34)

Scale: As Noted Date: June 1994