

GENERAL NOTES:

- 1- All lanes shall be opened to traffic during the morning peak hours from 6:30 a.m. to 8:00 a.m. and during the afternoon peak hours from 3:30 p.m. to 5:00 p.m. and during off-work hours. Only one lane of Kaumualii Highway shall be closed at any other time.
- 2- No material or equipment shall be stockpiled or parked within the Highway Rights-of-Way except at locations designated by the District Engineer.
- 3- No existing Guard Rails or Guide Posts shall be removed more than 300 feet in advance of the installed Guard Rails.
- 4- Contractor shall verify all utilities prior to commencement of any construction activities.
- 5- All rails and posts removed, including hardware, shall become the property of the Contractor. Work required to remove or demolish guard rails or posts will not be measured or paid for directly but shall be considered incidental to the "Item No. 606.3110."
- 6- Provide smooth transition from existg Guard Rail to new Guard Rail installation. Adjust placement of existg Guard Rails if necessary to accomplish smooth transition. The amount of adjustment will be determined by the Engineer in the field.
- 7- The work necessary to connect Guard Rails to Bridge End Posts at Lowai and Kahiawa Bridges and to construct Ramped sidewalk and curbing at Kahiawa Bridge shall include all labor, materials and equipment necessary to complete the work. This work will not be measured or paid for separately but shall be considered incidental to "Item No. 606.3110"
- 8- All depressions and holes resulting from the removal of existg. concrete and wood posts shall be properly backfilled and compacted. Payment for this work shall be considered incidental to "Item No. 606.3110"

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ROS-050-1(2)	1977	6	15

SUMMARY~ NEW GUARD RAIL				SUMMARY~ REMOVAL OF EXISTING STRUCTURES				
STATION	GUARD RAIL TYPE 3 SINGLE w/STEEL POST (Lin. Ft.)	END TREATMENT		WOODEN RAILS w/WOODEN POSTS	WOODEN RAILS w/CONC. POSTS	METAL RAILS w/CONC. POSTS	METAL RAILS w/WOOD POST	CONC. GUIDE POSTS
		APPROACH	TRAILING					
211+56 to 213+60 Rt.	87.5' (Double)	B.C.T.	B.C.T.			140'		
213+60 to 214+40 Rt.	87.5' (Double)	Type "G" (Modified)	Type "G" (Modified)					
214+40 to 215+20 Rt.	80.0'	B.C.T.	B.C.T.		525'			
215+20 to 216+00 Rt.	80.0'				244'			
216+00 to 217+00 Rt.	80.0'	B.C.T.	B.C.T.		632'			
217+00 to 218+00 Rt.	80.0'	Type "C"	B.C.T.		783'			
218+00 to 219+00 Rt.	80.0'	Special End Shoe	B.C.T.					
219+00 to 220+00 Rt.	80.0'	B.C.T.	Special End Shoe			88'		
220+00 to 221+00 Rt.	80.0'	Special End Shoe	B.C.T.					
221+00 to 222+00 Rt.	80.0'	B.C.T.	Special End Shoe			50'		
222+00 to 223+00 Rt.	80.0'	Tie into Existing	Type "F" B.C.T.					
223+00 to 224+00 Rt.	80.0'	Type "C" B.C.T.	B.C.T.	305'				1021'
224+00 to 225+00 Rt.	80.0'	Type "C"	B.C.T.	215'				
225+00 to 226+00 Rt.	80.0'	B.C.T. (Straight)	B.C.T. (Straight)	260'				
226+00 to 227+00 Rt.	80.0'	Type "C"	Type "F" "B"	250'				
227+00 to 228+00 Rt.	80.0'	B.C.T. (Straight)	B.C.T. (Straight)					508'
228+00 to 229+00 Rt.	80.0'	B.C.T. (Straight)	B.C.T.	153'				
229+00 to 230+00 Rt.	80.0'	B.C.T.	B.C.T. (Straight)	180'				
230+00 to 231+00 Rt.	80.0'	B.C.T.	Type "F"	55'				
231+00 to 232+00 Rt.	80.0'	Type "C" "B"	B.C.T.	262'				
232+00 to 233+00 Rt.	80.0'	B.C.T.	B.C.T.	304'				
233+00 to 234+00 Rt.	80.0'	B.C.T.	B.C.T.	333'				
234+00 to 235+00 Rt.	80.0'	Special End Shoe	B.C.T.					
235+00 to 236+00 Rt.	80.0'	B.C.T.	Special End Shoe				62'	
236+00 to 237+00 Rt.	80.0'	Special End Shoe	B.C.T.	22'				
237+00 to 238+00 Rt.	80.0'	B.C.T.	B.C.T.	225'				
238+00 to 239+00 Rt.	80.0'	B.C.T.	B.C.T.	52'				
239+00 to 240+00 Rt.	80.0'	B.C.T.	B.C.T.	133'				
240+00 to 241+00 Rt.	80.0'	B.C.T.	B.C.T. Type "F"	324'				
241+00 to 242+00 Rt.	80.0'	Type "C"	B.C.T.	126'				
242+00 to 243+00 Rt.	80.0'	B.C.T.	Type "F"	107'				
243+00 to 244+00 Rt.	80.0'	B.C.T.	B.C.T.	180'				
244+00 to 245+00 Rt.	80.0'	Type "C"	Type "F"					54'
245+00 to 246+00 Rt.	80.0'	Type "C"	Type "F"					136'
246+00 to 247+00 Rt.	80.0'	Connect to Existg. Rails	B.C.T. Type "F"	314'				
247+00 to 248+00 Rt.	80.0'	B.C.T.	Type "F"					513'
248+00 to 249+00 Rt.	80.0'	Type "C"	B.C.T.					378'
249+00 to 250+00 Rt.	80.0'	Type "C"	B.C.T. Connect to exist. rails					
TOTAL	14,000 L.F. 13,574.4	B.C.T. = 50 Ea. Type "C" = 10 Ea. Type "F" = 7 Ea. Type "G" (Modified) = 2 Ea. Special End Shoe = 7 Ea.	52	4,010 L.F. { Type "B" = 1 Ea. Type "E" = 2 Ea.	2,254 L.F.	278 L.F.	62 L.F.	2,610 L.F.
250+00 to 251+00 Rt.	350.5	Type "E"	B.C.T.	314'				