

DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____

SCHEDULE OF NEW METAL GUARD RAILS

RIGHT SIDE STA. TO STA.	APPROXIMATE LENGTH (L.F.)		
	STANDARD STEEL POST	8 FT. STEEL POST	STEEL POST ON CONC. BLK.
145+50-147+00	175		
151+00-152+00	100		
152+00-156+48.05= EQ. 380+29.35-383+46		765	
383+46-383+73			27
383+73-385+40		167	
385+40-387+35	195		
387+35-395+90		855	
395+90-399+00	310		
399+00-402+50.73= EQ. 403+64.25-407+40		707	
409+15-410+09		94	
410+09-410+19			10
410+19-410+36		17	
410+36-411+20	84		
411+20-411+67			47
411+67-412+60		93	
412+60-413+75	115		
414+93-415+58		65	
415+58-415+80			22
415+80-420+45		465	
420+45-423+48	303		
424+90-430+00	510		
430+30-430+81.72= EQ. 430+99.16-432+30		183	
433+14-434+00		86	
434+90-436+00	110		
436+00-438+59 = EQ. 438+2740-440+30		462	
440+70-445+00		430	
448+75-458+16.32= EQ. 0+00-2+00		1141	
2+00-6+87	487		
TOTAL	2389	5530	106

SCHEDULE OF NEW METAL GUARD RAILS

LEFT SIDE STA. TO STA.	APPROXIMATE LENGTH (L.F.)		
	STANDARD STEEL POST	8 FT. STEEL POST	
411+35-412+50		115	
412+50-413+75	125		
415+25-415+38		13	
418+15-418+90		75	
423+50-423+75	25		
424+80-427+40	260		
438+28-440+10		182	
441+85-445+98		353	
TOTAL	410	738	

GENERAL NOTES

- The scope of work for Project No. 7400A-01-82M consists of reconstructing and resurfacing the existing pavement, adjusting centerline monuments, and installing pavement markers and striping.
The scope of work for Project No. 7400A-02-82 consists of replacing existing metal and wooden guard rails with new metal guard rails, reconstructing shoulders, paving shoulders, relocating signs, installing reflector markers, and constructing a spillway.
- The Contractor's attention is directed to Sub-section 107.13-'Public Convenience and Safety,' and Subsection 107.14-'Barricades and Warning Signs' of the Special Provisions pertaining to peak hours of traffic, submitting a traffic control plan and other requirements necessary for providing safe movement of public traffic through the project areas.
- All guard rail layouts shall be done by the Contractor but shall be approved by the Engineer before construction.
- Guard rail posts differ in length throughout project. See Schedule on this sheet for approximate locations.
- The location of the Signal Corp Cable on the left shoulder is approximate only. The Contractor shall notify Mr. William Char, phone no. 836-6124, of the Hawaiian Telephone Co. one (1) week prior to the beginning of operations to verify the location of the cables. Any damage to the

existing cables shall be repaired immediately by the Contractor and any cost as a result of said damages shall be the Contractor's responsibility.

- The Contractor shall saw cut the existing edge of pavement prior to excavation for paving of shoulders. Saw cutting shall be considered incidental to Item No. 203.0100-'Roadway Excavation.' See Note 15.
- Any damage to the existing roadway and its improvements including but not limited to pavement and shoulders caused by the Contractor shall be repaired at his expense and to the satisfaction of the Engineer.
- The exact limits of pavement areas to be reconstructed shall be determined in the field by the Engineer.
- The depth of excavation for reconstruction shall be the reconstruction thickness minus the overlay thickness as designated on the plans. The excavated areas shall be reconstructed with Asphalt Treated Base Course prior to resurfacing.
- Ruts on the existing roadway pavement shall be filled with a layer of leveling course Mix No. I prior to resurfacing. This leveling course will be considered as A.C. Pavement Mix No. I and paid for under Item No. 401.0500.
- Provide smooth transition at connections to existing pavement, side roads and lookouts.
- The A.C. overlay thickness shall be as shown on the plans, unless otherwise directed by the Engineer.
- Where variation in thickness of overlay occurs on the main thoroughfare, a transition shall be effected with a rate of 25 feet per inch of difference.
- The Contractor shall remove the existing asphalt concrete pavement at the Ihiihilauea and Kawaiakaiea bridges and approaches prior to resurfacing as shown in detail on Plan Sheet No. 3. The removal and disposal of the existing asphalt concrete pavement from the bridges and approaches shall be considered incidental to Item No. 401.0500-'A.C. Pavement Mix No. I'.
- Wherever roadway width changes from one width to another, a smooth transition shall be effected while saw cutting edge of pavement prior to excavation for paving of shoulders. The Contractor shall lay out the proposed saw cutting and obtain the approval of the Engineer prior to proceeding with the work.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7400A-01-82M 7400A-02-82	1982	2	30

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
**GENERAL NOTES AND
GUARD RAIL SCHEDULE**
KALANIANA'OLE HIGHWAY
PROJ. NO. 7400A-01-82M
PROJ. NO. 7400A-02-82

Date: Sept, 1981

SHEET No. 1 OF 1 SHEETS