

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19G-02-99	2000	3	27

GENERAL NOTES

1. The scope of work for this project consists of: demolishing and removing existing drainage structures; excavating and backfilling; constructing grated drop inlets, concrete headwalls, concrete trapezoidal ditches; installing bedcourse material and 24" culverts; installing dumped riprap; installing metal guardrails; and restoring existing asphalt pavement structure.

2. The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work amounting to not less than 50 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.

3. The Contractor's attention is directed to the following Sections of the Special Provisions : Subsection 107.13 - Public Convenience and Safety; Subsection 107.21 - Contractor's Responsibility For Utility Property And Services; and Section 645 -Traffic Control.

4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.

5. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.

6. Smooth riding connections shall be constructed at all limits of the trench restoration and/or as directed by the Engineer.

7. The contractor shall provide for access to and from all existing side streets at all times.

8. All saw cutting work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV.
6. For Typical Details of Type 1211216P and 1211214P Frame and Grates, see Sheet No. H15.

7. For added reinforcing around new culverts, see Standard Plan H-04.

8. All existing culverts to remain shall be cut flush with inside face of new and existing grated drop inlets.

9. Steel pipe railings shall not be paid for separately but considered incidental to Item 604.7000 - Type "I" Concrete Drop Inlet, 5.00 feet to 5.99 feet.

10. Concrete Ditch Transition shall be paid under Item 640.2000 - Lined Trapezoidal Drainage Ditch.

LEGEND

- e— Existing Electrical Line

°fp Existing Joint Pole

°pp Existing Power Pole

—t— Existing Telephone Line

—Δc— Existing Signal Corps Line

—tv— Existing TV Cable

—w—12— Existing 12" Water Line

°av Existing Water Air Valve

°wv Existing Water Valve Box

°wv Adjusted Water Valve Box

°fh Existing Fire Hydrant

—Δ—12— Existing Sewer Line

°Δmh Existing Sewer Manhole

°SMH Adjusted Sewer MH Frame/Cover

°mon Existing Monument

---d--24--- Existing 24" Drain Line

24" RCP New 24 " RCP Drain Line

°Δdmh Existing Storm Drain Manhole

°SDMH Adjusted Storm Drain MH Frame/Cover

°SDMH New Storm Drain Manhole

□gdi Existing Grated Drop Inlet

cb Existing Catch Basin

⊥ Existing Traffic Sign

DRAINAGE NOTES

1. Existing drainage systems will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow. The cost shall be incidental to the various Contract Items.

The Contractor shall verify the locations of all existing culverts and utilities in the field. Any existing culverts and utilities damaged during construction shall be repaired or replaced by the Contractor at his own expense.

3. The following work shall not be paid for separately, but shall be considered incidental to the various Contract Items.

a. Demolishing, removing, and disposing existing inlet structures

b. Removing and resetting existing metal guardrails.

c. Connecting existing culvert to existing and new grated drop inlets.

4. For Culvert Trench and Pavement Restoration detail, see Sheet No. H16.

5. For Typical Details of Type 1211216P and 1211214P Grated Drop Inlet, see Sheet No. H14.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	9/10/99
DRAWN BY	A. Manilla
TRACED BY	
DESIGNED BY	C. Matsuda, B. Toda
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

HAWAII BELT RD. DRAINAGE IMP.

Vicinity of Maulua Gulch, Laupahoehoe  
Gulch and Kaawali Gulch

Project No. 19G-02-99

Date: Aug. 1999

SHEET No. 1 OF 1 SHEETS