

PROJECT: KALANIANA'OLE HIGHWAY DRAINAGE IMPROVEMENTS
Vicinity of Keolu Hills

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.
2. 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. For added reinforcing around culverts at new drainage structures, see Standard Plan H-04.
4. Chamfer all exposed concrete edges 1".
5. Removal and reinstallation of existing metal guardrail shall not be paid for separately, but shall be considered incidental to the various Contract Items.
6. Plugging existing 12" culvert shall not be paid for separately, but shall be considered incidental to the various Contract Items.
7. For details of 24-inch Culvert trench restoration, see Sheet No. H10.
8. All exposed finish grade shall be hydromulched. The work shall be considered incidental to the various Contract Items.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE SUMMARY

KALANIANA'OLE HIGHWAY
DRAINAGE IMPROVEMENTS
Vicinity of Keolu Hills
Fed. Aid Project No. DE-072-1(48)

Date: Sep. 2003

SHEET No. *H1* OF *10* SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY <u>L.R.C.</u>	<u>10/14/03</u>
	TRACED BY	
NOTE BOOK	DESIGNED BY <u>C.M.</u>	
<u>Wacartisaka</u>	QUANTITIES BY	
<u>Wandjiden</u>	CHECKED BY	