

WATER NOTES:

- Unless otherwise specified, all materials and construction of water facilities and appurtenances shall be in accordance with the "Water System Standards", 2002, as adopted by the Department of Water, County of Kauai, including all subsequent Amendments and Additions.
- The Contractor shall arrange a pre-construction conference prior to construction and shall notify the Department of Water prior to the start of construction.
- The Contractor shall submit the name and telephone number of its authorized superintendent on the job and the names and telephone numbers of at least three (3) persons to contact in case of emergency during non-working hours.
- The Contractor shall notify the Department of Water at least 24 hours prior to any trenching, pipe laying, backfilling, testing or chlorination to insure that inspectional services will be available.
- All materials (pipe, pipe lubricants, paints, sealants, form oil, concrete admixtures, etc.) in direct contact with the potable water shall have National Sanitation Foundation (NSF) approvals. The Contractor shall submit these approvals to the Department of Water for review and approval prior to its application.
- The location of existing water mains and appurtenances shown on the plans are approximate only. The Contractor shall verify the exact locations in the field. Excavation around any existing water main shall be done by hand.
- The Contractor shall provide unobstructed access to existing fire hydrants, valves and water meters at all times.
- The Contractor shall secure all excavations in accordance with OSHA regulations.
- There shall be no physical connection between a public or private potable water system and a non-potable water system, sewer, or appurtenance thereto which could permit the passage of any sewage or polluted water into the potable water supply.
- Trench excavation, backfilling in lifts, and repaving shall conform to the "Hawaii Standard Specifications for Road, Bridge, and Public Works Construction, 1994" or amended.
- Warning tape shall be in accordance with Division 200, Section 212.08 of the "Water System Standards". The warning tape shall be four mil thick, non-metallic, acid and alkali resistant polyethylene and 6-inches wide with minimum strength of 1,750 psi lengthwise and 1,500 psi crosswise. Tape color shall be "Safety Precaution Blue" and shall bear a continuous printed inscription "caution water line buried below". Inscription shall be 2-inches high, black text.
- All fire hydrants shall receive a minimum SSPC SP3 surface preparation and coated in accordance with Division 200, Section 206.01 of the "Water System Standards".
- Unless otherwise directed, prior to the connection of any pipeline to the existing main, the pipeline installed shall be cleaned, pressure tested, chlorinated, flushed, and sampled in accordance with Division 300, Sections 302.27 to 302.29 of the "Water System Standards".
- Polyurethane foam "pigs" shall be "pushed" through the length of the installed pipeline using pressurized water.

15. All connections shall be scheduled in coordination with the Department of Water.

- An advance deposit is required for operating valves, flushing lines and notifying consumers affected by a water shutdown during connections. The Contractor will be charged the actual cost (deposits and fees waived for Department of Water contracts).
- The Contractor shall place the deposit prior to scheduling the connection date.
- Connections shall be scheduled with the Department of Water, County of Kauai.
- All materials shall be on hand and approved by the Engineer prior to scheduling the connection date.
- Pumps used to de-water the connection area shall be operated in the presence of the Engineer prior to scheduling the connection date.
- All connections shall be performed in the presence of the Engineer.

16. In order to prevent damage to the polyethylene encasement from excessive handling, the polywrap shall be installed around the barrel of the ductile iron pipe at its final location along the trenchline. The polyethylene encased pipe shall be lifted using a fabric type sling or a suitably padded cable or chain to prevent damage to the polyethylene.

17. The Contractor shall take all necessary compaction tests while the waterline trench is being backfilled and while the subbase/base course is being placed. If the test results indicate that additional compaction is required, the corrective work shall be completed before any additional trench excavation or placing of subbase/basecourse is allowed.

The Contractor shall retain the services of a Registered Geotechnical Engineer for quality control. The compaction test results shall be certified by the Geotechnical Engineer and submitted to the Department of Water, State Highways Division (for work done within State R/W) and the Department of Public Works (for work done within County R/W). The Geotechnical Engineer shall certify that the compaction results meet the requirements of the current standard specifications for road and bridge construction.

18. The Contractor shall connect all existing consumer piping to the new service laterals. The Department of Water will transfer the existing water meters only.

19. All fittings shall be mechanical joint (MJ) at each end unless otherwise noted.

20. The Contractor shall obtain all applicable Department of Health permits prior to the start of construction. Permits include, but are not limited to, National Pollution Discharge Elimination System (NPDES) permits for storm water, hydrostatic test, dewatering, and for construction activities, including clearing, grading, and excavation, that result in the disturbance of equal to or greater than one (1) acre of total land area.

The Contractor shall be responsible for the proper disposal of storm water discharges and effluent associated with construction activities including hydrotesting and disinfection operations, to safeguard public health and safety in accordance with applicable Department of Health requirements. All permits and licenses for storm water and construction water disposal, including all application, charges, fees, and taxes, are the responsibility of the Contractor.

21. Water used for hydrotesting and/or chlorination shall be taken off-site for disposal.

CATV NOTES:

1. The location CATV facilities shown on the plans are from existing records with varying degrees of accuracy as to its actual fixed location. The Contractor shall use extreme caution when working in close proximity of CATV facilities.

2. For any field assistance or verification of CATV facilities, the Contractor shall call Mr. Brian Baligad at (808)245-8951 ext. 28.

3. Any work required to relocate CATV facilities shall be done by Oceanic Cablevision and the Contractor shall be responsible for all coordination requirements and associated applicable costs.

4. Any damage to Oceanic's facilities shall be reported immediately to OCI's Repair Dispatch Department at (808)625-8437 or at (808)625-8666.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	ER-14(1)	2006	4	34

HAWAIIAN TELCOM NOTES:

1. The Contractor shall notify Rick Ramones, the Hawaiian Telcom Inspector, at (808)246-3205 prior to the performance of any work affecting Hawaiian Telcom facilities.

2. The Contractor shall brace all utility poles near any excavation during his operations.

3. The Contractor shall verify the locations of any telephone facilities that may be affected and take necessary precautions not to damage them. The Contractor will be responsible for any damages to these facilities as a result of his operations. Any work involving existing cables or ducts shall be done in the presence of the Hawaiian Telcom Inspector or his representative

KAUA'I ISLAND UTILITY COOPERATIVE NOTES:

1. The Contractor shall maintain a minimum working clearance of ten feet from existing overhead lines.

2. The General Contractor shall submit a work schedule to Kaua'i Island Utility Cooperative (KIUC) Engineering Section and include the following: point of contact at the project site, office telephone number and cellular number.

3. If electrical underground facilities are present, the General Contractor shall contact the Call Before You Dig Line at 1-866-423-7287 to locate existing utilities.

4. Prior to the start of work, the General Contractor shall notify the construction coordinator Mr. Soni Tupou at (808)246-4343 for coordination of utility work.

5. Damages to Kaua'i Island Utilities Cooperative's Facilities shall be reported immediately to Kauai Island Utility Cooperative's trouble call desk at (808)246-8200.

6. The General Contractor shall pay for temporary supports and bracing for all power poles that may be affected by the work as required by KIUC.

7. All electrical trenches must be inspected by KIUC prior to backfilling and concrete encasing operation.

8. All work to temporarily or permanently relocate KIUC Facilities shall be paid for by the Contractor.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UTILITY NOTES

Kuhio Highway Emergency Repairs
Vicinity of MP 21.7 (Waipapa Stream)
FEDERAL AID PROJECT NO. ER-14(1)
Scale: NTS Date: April 2006
SHEET No. 63 OF 5 SHEETS