

GENERAL NOTES:

1. The project includes clearing and grubbing, rock scaling, re-grading and smoothing of slopes, hydro-mulch seeding, and installing chain link fencing, erosion matting, mesh, and anchors on slopes.
2. Contractor shall request toning of utilities from One-Call Center, phone 1-866-423-7287  
Contractor shall also call Dept. of Water phone 245-5411 and County Wastewater phone 241-6642 for toning water lines and sewer lines.
3. At the end of each day's work, the Contractor shall remove all equipment and other obstruction to permit free and safe passage of public traffic.
4. 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.
5. The Contractor shall verify the presence of existing underground utilities which may conflict with construction activities and shall coordinate with the utility company for temporary relocation, as necessary. All costs associated with temporary relocations shall be borne by the Contractor.
6. The Contractor shall provide for vehicle and ADA-compliant pedestrian access to and from all existing side streets at all times.
7. Existing drainage system shall be kept functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items.
8. Existing pavement within 6 inches of the finish grade in areas to be grassed shall be removed. All other existing pavement which will not be overlaid with new A.C. pavement shall be rooted, plowed, pulverized, or scarified to a minimum depth of 6 inches.
9. Existing facilities and/or pavement to remain which has been damaged by the Contractor shall be restored to its original condition at no cost to the State.
10. All graded areas and all grassed areas damaged by construction activities shall be planted in accordance with Specifications Section 641 - Hydro-Mulch Seeding.
11. When excavating in close proximity to walls, fences, and other improvements, the Contractor shall protect, support, secure, and take all precautions to prevent damaging these facilities and improvements.
12. The Contractor shall verify the locations and elevations of all existing utility lines and notify respective owners before commencing any excavation work.

13. No material or equipment shall be stockpiled or otherwise stored within Highway Right-Of-Way except at locations designated in writing and approved by the Engineer.
14. Contractor shall dispose or deliver any removed material to a location designated by the Engineer at no additional cost to the State.
15. The Contractor shall be held liable for any damages incurred to the existing landscaping as a result of his operations.
16. After the project is completed, except for the grading required in constructing the drainage and catchment ditches, the Contractor shall restore grades and groundcover within the project limits to a condition equal or better than the existing condition prior to construction.
17. All existing utilities, whether or not shown on the plans, shall be protected at all times by the Contractor during construction unless specified on the plans to be abandoned. All existing utility/light poles overhead utilities and guy poles/wires shall remain in place and operational. The Contractor shall be held liable for any damages incurred to the existing utilities as a result of his operations. All damaged portions shall be replaced in accordance with the standards and specifications of the affected utility company at no cost to the State. No delays or extensions of contract time will be allowed as a result of these required repairs.
18. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts.
19. The Contractor's attention is directed to the following sections of the Standard Specifications: Subsection 107.06 - Contractor Duty Regarding Public Convenience; Subsection 104.11 - Utilities and Services; and Section 645 - Work Zone Traffic Control.
20. Irrigation lines in conflict with the construction shall be cut and capped. The irrigation sprinkler heads in the project limits shall be turned off. Payment for this work shall be considered incidental to the various contract items.
21. Pursuant to Chapter 6E, HRS, in the event any artifacts or human remains are uncovered during construction operations, the Contractor shall immediately suspend work and notify the Kauai Police Department, the State Department of Land and Natural Resources - Historic Preservation Division (692-8015). In addition for non-city projects, the Contractor shall inform the Civil Engineering Branch, County of Kauai.

ABBREVIATIONS:

A.C, AC, ac	Asphalt Concrete
AB	Aggregate Base
℄	Baseline
BMP	Best Management Practices
℄	Centerline
Dia, Ø	Diameter
e.g.	Existing Ground
E.P.	New Edge of Travel Way
e.p.	Existing Edge of Travel Way
E.S.	New Edge of Shoulder
e.s.	Existing Edge of Shoulder
Exist	Existing
Galv	Galvanized
HMA	Hot Mix Asphalt
LF	Linear Feet
Lt.	Left of ℄
Min	Minimum
MP	Mile post
O/S	Offset
OC, o.c.	On Center
PC	Point of Curvature
PCC	Point of Compound Curve (for Alignment)
PI	Point on Intersection
POC	Point on Curvature
POT	Point on Tangent
PT	Point of Tangency
Pvmnt	Pavement
R	Radius
R/W	Right-of-Way
Req'd	Required
Rt.	Right of ℄

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAWAII	HWY-K-06-07	2007	3	31


ST. MON.	Street Monument
SIC	Sandwich Isle Communications
sl	Street Light
SS	Stainless Steel
Sta.	Station along ℄
t	Exist. Telephone
Typ	Typical
w	Exist. Water
w/	With

LEGEND

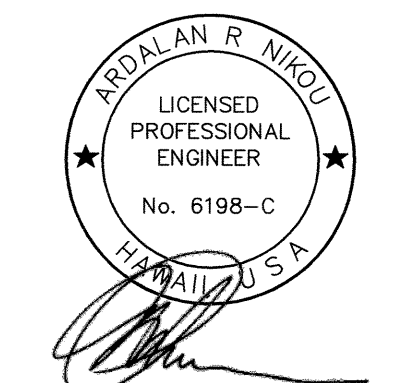
-----	Right-of-Way
==d30==	Drain Pipe
—□—□—□—	Guardrail, Type 3
• • •	Silt Fence
—□—	Street Light
—☁—	Landscaping
—sic—	Fiber-optic line
—w12—	Existing 12" Water Line
—x—x—x—x—	Exist Fence
—○—○—○—	New Fence

ORIGINAL PLAN	SURVEY PLOTTED BY E.M. JOWELL	DATE
NOTE BOOK	DRAWN BY BRANDON WEAVER	
NOTE	TRACED BY	
DESIGNED BY RANDY HAMAMOTO		
QUANTITIES BY BRANDON WEAVER		
CHECKED BY ADRIAN NIKOU		

C:\Users\mhamo\Documents\2007 Kauai Emergency Flood Mitigation\Kauai\Kauai Road\06-07-07.dwg 05/18/07 12:23 PM hhamo

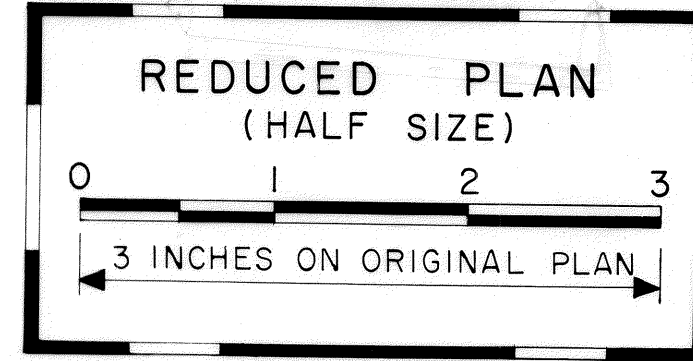


EarthTech  
A tyco International Ltd. Company



ADRIAN R. NIKOU  
LICENSED PROFESSIONAL ENGINEER  
No. 6198-C  
HAWAII, U.S.A.

EXPIRATION DATE OF THE LICENSE 4/30/2009  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.



REDUCED PLAN  
(HALF SIZE)  
0 1 2 3  
3 INCHES ON ORIGINAL PLAN

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**GENERAL NOTES**

**KAUMUALII HIGHWAY & RICE STREET  
EMERGENCY SLOPE STABILIZATION  
PROJECT NO. HWY-K-06-07**

Scale: As Noted Date: Apr 2007

SHEET No. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAWAII	HWY-K-06-07	2007	4	31

NOTES FOR CONSTRUCTION WITHIN COUNTY RIGHT-OF-WAY:

1.

All pavement shall be restored to its original condition. All applicable construction work shall be done in accordance with the "Hawaii Standard Specification for Road and Bridge Construction, 2005" and its amendments and the "Standard Details for Public Works Construction, September 1984", as amended of the Department of Public Works, City and County of Honolulu, and the Counties of Kauai, Maui, and Hawaii."
2.

The Contractor shall provide, install maintain all necessary signs, lights, flares, barricades, markers, cones and other protective facilities and shall take all necessary precautions for the protection and for the convenience and safety of the public traffic. All such protective facilities, and precautions to be taken shall conform with rules and regulations governing the use of traffic control devices at work sites on or adjacent to public streets and highways adopted by the highway safety coordinator and U.S. Federal Highway Administration "Manual on Uniform Traffic Control Devices for Streets and Highways, 2003" and its amendments.
3.

The Contractor shall, whenever necessary, properly sheet and brace all excavations to render it secure and shall remove all such sheeting and bracing before completion of the backfill for water mains. The minimum cover requirements (from top of pipe finished grade over pipe) is three (3) feet.
4.

a.

A permit shall be obtained by the Contractor from the Department of Public Works, at the Contractor's expense.

b.

Driveways shall be kept open unless owners of the abutting lots using these Right-Of-Way are otherwise provided for satisfactorily.

c.

All work including repair of damaged pavement and shoulders shall be inspected and approved by the Department of Public Works. All unapproved work shall be considered unacceptable and shall be reworked and corrected as directed by the Department of Public Works, and the Contractor's expense.

d.

Damaged shoulders shall be restored to a condition equal to or better than existing conditions.

e.

Work on a public street area may be performed only between the hours of 8:00 A.M. to 3:30 P.M Monday through Friday, except on holidays recognized by the County of Kauai, unless otherwise permitted by the Department of Public Works, County of Kauai.

f.

During non-working hours all trenches shall be covered with a safe non-skid bridging material and all lanes shall be opened to public vehicular and pedestrian traffic.

g.

No material and/or equipment shall be stockpiled or otherwise stored within County Right-Of-Way except at locations designated in writing and approved by the County Engineer.

h.

The Contractor shall conduct his operations so as to offer the least possible obstructions and inconvenience to the public and he shall have under construction no greater length or amount of work that he can prosecute properly with due regard to the right of the public.

i.

All existing drainage flow conditions shall be maintained.

5.

The Contractor shall retain the services of a geotechnical engineer for quality control. Certification for the registered geotechnical engineer shall be submitted to the Department of Public Works at the completion of the construction work. The geotechnical engineer shall also submit test results as requested by the Department of Public Works.

6.

The Contractor shall hold a pre-construction meeting with the construction-design section of the Department of Public Works before commencing any work.

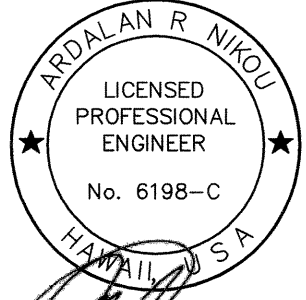
SURVEY PLOTTED BY	B.M. JEWELL	DATE	
DESIGNED BY	BRANDON WEAVER		
QUANTITIES BY	RANDY HAMAMOTO		
CHECKED BY	BRANDON WEAVER		
	ADRIAN NIKOU		

U:\Projects\0606-007 Road Emergency Road Rehabilitation\State Report\06-04\_Road Rehab.dwg 05/17/07 4:02 PM HAWAII

*prailau Kulo*  
COUNTY ENGINEER  
COUNTY OF KAUAI  
FOR WORK WITHIN COUNTY  
RIGHT OF WAY

5/17/07  
DATE

**EarthTech**  
A **tyco** International Ltd. Company



EXPIRATION DATE OF THE LICENSE 4/30/2008  
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GENERAL NOTES

KAUMUALII HIGHWAY & RICE STREET,  
EMERGENCY SLOPE STABILIZATION  
PROJECT NO. HWY-K-06-07

Scale: As Noted      Date: Apr 2007

SHEET No. 2 OF 3 SHEETS



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KAUAI	HAWAII	HWY-K-06-07	2007	5	31

GENERAL NOTES FOR TRAFFIC CONTROL PLAN

1.

The permittee shall make minor adjustments at intersections, driveways, bridges, structures, etc., to fit field conditions.
2.

Cones or delineators shall be extended to a point where they are visible to approaching traffic.
3.

Traffic control devices shall be installed such that the sign or device farthest from the work area shall be placed first. The others shall then be placed progressively toward the work area.
4.

Regulatory and warning signs within the construction zone that are in conflict with the Traffic Control Plans shall be removed or covered. All signs shall be restored upon completion of the work.
5.

Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
6.

Sign spacing (D), taper lengths (T) and spacings of cones or delineators shall be as shown in Table 1, unless otherwise noted on the Traffic Control Plans.
7.

All traffic lanes shall be a minimum of 10 feet wide.
8.

All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
9.

The backs of all signs used for traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e., when signs have messages on both faces).
10.

At the end of each day's work or as soon as the work is completed, the permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation.
11.

Replace permanent pavement markings and traffic signs upon completion of each phase of work.
12.

Furnishing, installing, maintaining, replacing of damaged, and removing of all temporary pavement striping, inertial barriers, and flexible post delineators shall be considered incidental items paid under Contract item No. 645.1000 Traffic Control.

NOTES FOR CONSTRUCTION IN STATE RIGHT-OF-WAY

1.

No lane closures allowed on Kaumualii Highway at MP 5.7, MP 9.8, and MP 10.7 between 5:00 A.M. and 10:00 P.M.
2.

The Contractor shall obtain a Community Noise Control Permit prior to performing work.
3.

The Contractor shall obtain a construction permit from the State's Highway District Engineer at 1720 Haleukana Street prior to commencement of work within State Highway Right-Of-Way. Tel No. 241-3000.
4.

Construction and Restoration of all existing highway facilities within State Right-Of-Way shall be done in accordance with all applicable sections of the "Hawaii Standard Specifications for Road & Bridge Construction, 2005", and the "Specifications for Installation of Miscellaneous Improvements within State Highways" of the State Highways Division.
5.

All work within the State Highway Right-Of-Way that require lane closures shall be done at night. The Contractor shall conduct night work only as follows.

Sunday

10:00 P.M. – 12:00 Midnight

Monday thru Thursday

12:01 A.M. – 5:00 A.M.  
10:00 P.M. – 12:00 Midnight

Friday (morning)

12:01 A.M. – 5:00 A.M.
6.

The Contractor shall not do work on Friday nights and Saturdays or as ordered by the Engineer. Sunday's work will be part of Monday's working day. The Contractor shall obtain a Noise Variance Permit (submit copy to State Highways) and all other required permits before beginning night work.
7.

During night work operations, only one lane of traffic shall be closed. During non-working hours, all lanes of traffic shall be kept open and free-flowing at the posted speed limit.
8.

The Contractor shall provide, install, and maintain all necessary sign, light, flares, barricades, markers, cones, and other protective facilities and shall take all necessary precautions for the protection and for the convenience and safety of public traffic. All such protective facilities and precautions to be taken shall conform with the "Administrative Rules of Hawaii Governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Streets and Highways" adopted by the Directors of Transportation, and the current U.S. Federal Highway Administration "Manual on Uniform Traffic Control Devices for Streets and Highways, Part VI Traffic Control for Highway Construction and Maintenance Operations". If lane closures are required during construction, a traffic control plan shall be incorporated into the construction plans and must be submitted for review and acceptance by the State Highways Division prior to the issuance of the permit.

KAUAI 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 Kauai 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 the coordination of utility work.
5.

Damages to Kauai 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.

PUBLIC HEALTH, SAFETY, AND CONVENIENCE:

1.

The Contractor shall observe and comply with all federal, state and local laws required for the protection of public health and safety and environmental quality.
2.

The Contractor, at his own expense, shall keep the project and its surrounding areas free from dust nuisance. The work shall be in conformance with the Air Pollution Standards and Regulations of the State Department of Health. The County may require supplementary measures as necessary.
3.

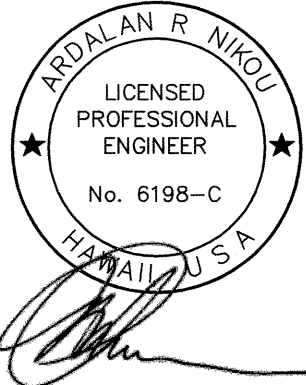
Contractor shall provide, install and maintain all necessary signs, lights, flares, barricades, markers, cones, and other protective facilities and shall take all necessary precautions for the protection, convenience, and safety of the public.

ORIGINAL PLAN	SURVEY PLOTTED BY	R.M. HOWE	DATE	
	DESIGNED BY	BRANDON WEAVER		
	DESIGNED BY	RANDY HAMAMOTO		
	QUANTITIES BY	BRANDON WEAVER		
	CHECKED BY	ARJAN NIKOU		
	NOTE BOOK			
	No.			

L:\env\john\06062-007 Road Emergency Plan\Kauai\Utility\State Report\K-06-07.dwg 05/14/07 4:03 PM hmcintosh



EarthTech  
A tyco International Ltd. Company



EXPIRATION DATE OF THE LICENSE 4/30/2008  
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

CONSTRUCTION, TRAFFIC  
AND UTILITY NOTES

KAUMUALII HIGHWAY & RICE STREET,  
EMERGENCY SLOPE STABILIZATION  
PROJECT NO. HWY-K-06-07

Scale: As Noted      Date: Apr 2007

SHEET No. 3 OF 3 SHEETS