

GENERAL NOTES

1. The project includes highway drainage improvements consisting of shoulder swale reconstruction, installing retaining walls, installing drain inlets, manholes, drainline, drywell construction, cold planing, resurfacing and installing pavement markings.
2. The Contractor is reminded of the requirements of Subsection 105.16 -Subcontracts.
3. The Contractor's attention is directed to the following Sections: Subsection 107.06 Contractor Duty Regarding Public Convenience; and Section 645 - Work Zone Traffic Control.
4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit safe passage of public traffic.
5. The location and existence of underground utilities, manholes, monuments and other 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 make an independent check on the ground by probing and/or checking with the various utility companies and government agencies to verify the exact locations and depths of the existing utilities and obstructions. The Contractor shall exercise proper care in excavating the area. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations. All damaged portions shall be replaced or repaired at the Contractor's expense.
6. The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damages shall be at the Contractor's own expense, to the satisfaction of the Engineer.
7. Smooth riding connections shall be constructed at all trenching and repaving areas as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to the various contract Items.
8. All saw cutting work shall be considered incidental to trenching, cold planing, and excavation bid items.
9. The Contractor shall stakeout and clearly mark locations of drainage system features to be installed and shall not proceed with installation until approval by the Engineer. Construction area shall be shielded by portable physical barriers. Placing, maintaining, reflecting, and removal of portable physical barriers shall be considered incidental to the various contract items. Prior to constructing drainage system, contractor shall verify locations of all existing underground facilities, structures, manholes, etc. Layout of pavement markings and striping shall be done by the contractor and approved by the Engineer prior to any installation work. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
10. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.


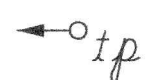







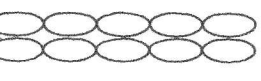

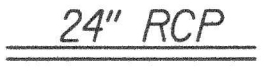



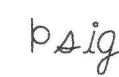

SURVEYING NOTES

1. Existing topographic survey prepared by Island Survey, Inc., dated June 2013.
2. Azimuths and coordinates are referred to government survey triangulation station "Puu Panini".

UNDERGROUND INJECTION CONTROL (UIC) NOTES

1. The State has applied for a UIC Permit to Construct the project drywell.
2. The Contractor shall be responsible for all items required to obtain the UIC Permit to Operate the drywell from the Department of Health pursuant to HAR Chapter 11-23-Underground Injection Control. All costs associated with obtaining the UIC Permit to Operate shall be paid for by the Contractor.
3. As part of the UIC Permit to Operate the drywell, the Contractor shall retain the services of a registered Geologist to perform well testing and report preparation for well registration. Costs of such services shall be paid for under contract Item Number 604.0600.

LEGEND

	Reconstruction (Cold-Planing & Repaving) Areas
	Existing Telephone Pole & Anchor
	Existing State Right-Of-Way
	Existing State Right-Of-Way, Access Opening
	New Easement
	Existing Guardrail
	New Guardrail
	New Silt Fence
	Existing Fence
	Existing Rock Wall
	Existing Monument
	New 24" RCP Drain Line
	New Storm Drain Manhole
	New Grated Drop Inlet
	Existing Catch Basin
	Existing Traffic Sign
	Existing Tree

A.B.C.	Asphalt Base Course	RCP	Reinforced Concrete Pipe
A.C.	Asphalt Concrete	Ret.	Retaining
Approx.	Approximate	Rt.	Right
℄	Baseline	r/w	Exist. Right-of-Way
℄	Centerline	Sched.	Schedule
Clr.	Clear, Clearance	SDMH	Storm Drain Manhole
Det.	Detail	Shts.	Sheets
Dia., ∅	Diameter	Sp.	Spaced
Diag.	Diagonal	Sta.	Station
DL	Drain Line	Std.	Standard
E.W.	Each Way	Struct.	Structural
Elev.	Elevation	Thk.	Thick
EQ	Equal/Equally	Tmk	Tax Map Key
exist.	Existing	Typ.	Typical
e.p.	Exist. Edge of Pavement	Vert.	Vertical
E.P.	New Edge of Pavement		
e.s.	Exist. Edge of Shoulder		
E.S.	New Edge of Shoulder		
Ft.	Feet		
FGE	Fewell Geotechnical Engineering		
Galv.	Galvanized		
HMA	Hot Mix Asphalt		
Horiz.	Horizontal		
HWY	Highway		
Inv.	Invert		
Lt.	Left		
Max.	Maximum		
Min.	Minimum		
M.L.	Match Line		
N/A	Not Applicable		
No.	Number		
O.C.	On Center		
P.C.	Point of Curvature		
P.T.	Point of Tangency		
P.O.T.	Point on Tangent		



This work was prepared by me or under my supervision.
Lenzie Okano-Kendrick
Expiration Date of License 4/18.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0190(016)	2016	3	36

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

MAMALAHOA HIGHWAY

DRAINAGE IMPROVEMENTS

Vicinity of Puuwaawaa Ranch Road

Federal-Aid Project No. STP-0190(016)

Scale: N/A Date: April 2016

SHEET No. 1 OF 1 SHEETS