

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-063-1(22)	2003	48	69

GENERAL ELECTRICAL NOTES

- Plans Do Not Indicate Complete Existing Electrical Conditions. Visit Jobsite To Become Familiar With All Existing Conditions and Extent of Demolition and New Work Prior to the Start of Work.
- Report Any Discrepancies and/or Differences in Drawings, in Respect to Existing Conditions, to Engineer.
- Resolve All Discrepancies and Questions Prior to the Start of Work. No Extra payment Shall be Allowed on Account of Work Made Necessary by Failure to Visit the Site and/or Failure to Resolve Discrepancies and Questions.
- All Power Outages Shall be Coordinated and Approved by the Engineer and Limited per the State's Requirements.
- For Existing Circuit(s) Where Some Electrical Items are Removed, Provide All Necessary Raceways, Wires, Boxes and Etc. per NEC Requirements to Ensure Electrical Continuity and Proper Operation of Remaining Circuit Component(s).
- The Contractor Shall be Responsible for any Damages to the Existing Traffic Signal Facilities, Including the Traffic Signal Interconnect System. Any and All Damages to these Facilities shall be Repaired by the Contractor at no Additional Cost to the State.

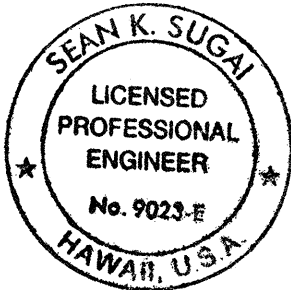
SCADA CONNECTION POINTS			
Equipment	Discrete Inputs	Discrete Outputs	Analog I/O
Kalihi Fan #1 VFD	VFD Control (On/Off)	RVS Status (Hand)	Fan RPM
	RVS Control (On/Off)	VFD Status (On)	VFD Speed Control
		RVS Status (On)	
		VFD Status (Hand)	
Kalihi Fan #2 VFD	VFD Control (On/Off)	RVS Status (Hand)	Fan RPM
	RVS Control (On/Off)	VFD Status (On)	VFD Speed Control
		RVS Status (On)	
		VFD Status (Hand)	
Kaneohe Fan #1 VFD	VFD Control (On/Off)	RVS Status (Hand)	Fan RPM
	RVS Control (On/Off)	VFD Status (On)	VFD Ref 1
		RVS Status (On)	VFD Ref 2
		VFD Status (Hand)	VFD Speed Control
Kaneohe Fan #2 VFD	VFD Control (On/Off)	RVS Status (Hand)	Fan RPM
	RVS Control (On/Off)	VFD Status (On)	VFD Ref 1
		RVS Status (On)	VFD Ref 2
		VFD Status (Hand)	VFD Speed Control

ELECTRICAL SYMBOLS	
Symbol	Description
	Electrical Panelboard
	Telephone Cabinet
	Fire Alarm Control Panel
	Street Light Standard
	Electrical Pullbox
	Traffic Signal Pole
	Large Junction Box, Wall Mounted; Size as Noted
	Large Junction Box, Mounted on Steel Mounting Channels; Size as Noted
	Junction Box, Ceiling/Wall Mounted
	Electrical Equipment Connection
	Smoke Detector on Outlet Box Mounted on Pole
	Conduit Concealed Below Grade
	Exposed Conduit
	Existing Conduit
	Conduit Riser Turned Up/Down Respectively
	Duct Section Designator, Section "A" Noted. See C/E-16 for Duct Section Detail.
TSP	Denotes "Twisted Shielded Pair"

ORIGINAL PLAN	DATE
NOTED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

No.

LAST SAVE: 04/22/03 @ 15:05:14 BY: BD PLOT SC 1"=1'
2. WAD PROJECTS\2205\2205-1\2205-1.dwg



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SIGNATURE: *Sean K. Sugai* April 30, 2004
4/22/03 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**GENERAL ELECTRICAL NOTES
& ELECTRICAL SYMBOLS**
LIKELIKE HIGHWAY
Wilson Tunnel Improvements
Leak and Crack Remediation
F. A. Project No. STP-063-1(22)
Scale: None Date: April 24, 2003
SHEET No. E-1 OF 17 SHEETS