


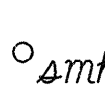
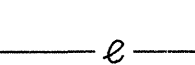

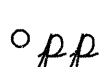
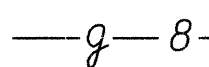

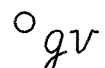
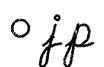


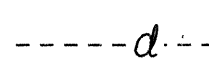
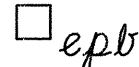
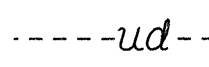

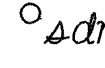
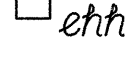



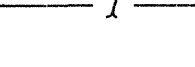

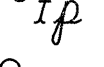
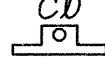
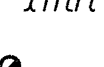

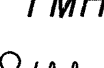
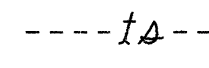
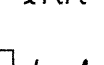
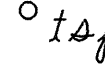

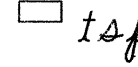
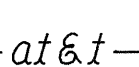

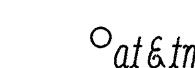
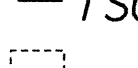


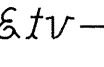

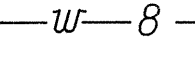

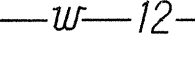

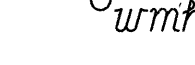
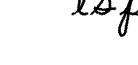


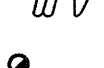

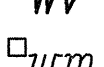
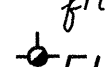



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-061-I(33)	1999	3	58

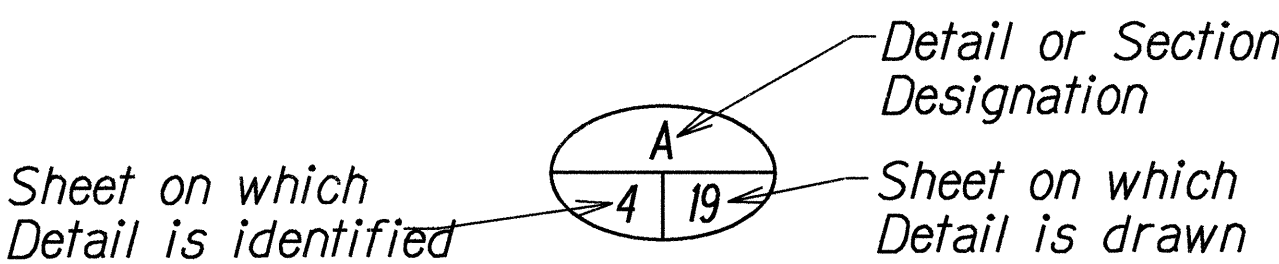
GENERAL NOTES

1. The scope of work for this project consists of shoulder widening; constructing reinforced concrete sidewalks, bus pad and curb and/or gutter; installing drainage facilities, signs, pavement markings and curb ramps; reconstructing traffic islands; relocating and/or adjusting utilities; re-locating fire hydrants; removing and installing guardrails.
2. The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work amounting to not less than 50 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
3. The Contractor's attention is directed to the following Sections of the Special Provisions : Subsection 107.13 - Public Convenience and Safety; Subsection 107.21 - Contractor's Responsibility For Utility Property And Services; and Section 645 -Traffic Control.
4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
5. 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 tone for the exact locations and depths of all underground facilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, traffic signal conduits, etc., may affect these proper-ties. Toning shall be considered incidental to the various contract items and will not be paid for separately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
6. The Contractor shall notify, the Oahu Transit Services, Lowell Tom (848-4578) or Ed Sniffen (848-4571), two (2) weeks prior to construction, informing them of location, scope of work, and closure of Kailua Rd. and/or traffic lanes and dates of closure.
7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.
8. The Contractor shall obtain a Community Noise permit from the State Department of Health, Noise and Radiation Branch, 591 Ala Moana Blvd., Room 136, Honolulu, HI 96813-2498; Telephone No. 586-4700. This shall be considered incidental to the various contract items.
9. Smooth riding connections shall be constructed at all limits of project, including the beginning and end of project, connecting approaches & side streets as shown on the plans and/or as directed by the Engineer.
10. Dressing of sidewalk shall consist of clearing, grubbing, grading, reshaping and compacting with suitable material the area adjacent to the improvement as shown on the plans and/or as directed by the Engineer and shall be considered incidental to Sidewalk.
11. Removal & disposal of existing concrete curb & gutter, curb, sidewalk and asphalt concrete pavement, curb, sidewalk and any debris shall be considered incidental to their respective bid items.

12. Concrete Sidewalk shall be reinforced with 6x6 W1.4xW1.4 welded wire fabric.
13. Existing drainage system will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items.
14. The Contractor shall provide for access to and from all existing driveways, sidewalks and side streets at all times. This work shall be considered incidental to various contract items.
15. All saw cutting work shall be considered incidental to Roadway Excavation.
16. The Contractor shall clean and remove any accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to the various contract items and will not be paid for separately.
17. Prior to the placement of new aggregate subbase course, the existing subbase shall be compacted to a relative compaction greater than or equal to 95%.
18. The top of the Plant Mix Glassphalt Concrete Base Course prior to placement of the new A.C. Pavement, Mix No. IV shall comply with the ten foot straight edge requirement. The variation of the surface from a straight edge with two contacts with the surface, shall not exceed 3/16".
19. All Guardrail posts shall be 8.0 feet long.
20. Provide smooth transition where new sidewalk construction meets the existing grade or sidewalk.
21. Concrete slab for fire hydrant shall be constructed with 4" concrete over 4" bed course. Slope concrete slab 2% away from hydrant. This work shall be considered incidental to the relocation of fire hydrant.
22. Existing fire hydrant to be removed shall be cleaned and returned to BWS Kalihi Yard. This work shall be considered incidental to the relocation of fire hydrant.
23. The Contractor shall be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
24. Before removing existing fire hydrant and concrete block, existing gate valve shall be restrained.
25. All curbing angle points within the curb ramps shall be rounded with R=6"
26. The Contractor shall remove and dispose of all existing raised pavement markers, thermoplastic line markings, traffic tapes, and epoxy adhesives prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.
27. New Shoulder/Sidewalk adjacent to the New Bike Lane shall be paid for under their respective bid items. New A.C. sidewalk shall be paid for under Item No. 608.2000-Bituminous Sidewalk.

LEGEND

	Reconstruction Area		Exist. Sewer Manhole
	Existing Electrical Line		Adjusted Sewer Manhole
	Existing Power Pole		Existing 8" Gas Line
	Exist. Power Pole Reloc. by HECO		Existing Gas Valve Box
	Existing Joint Pole		Existing Monument
	Existing Electric Manhole		Existing Drain Line
	Existing Electric Pullbox		Existing Underdrain Line
	Adjusted Electric Pullbox		Existing Storm Drain Manhole
	Existing Electric Hand Hole		Adjusted Storm Drain MH Frame/Cover
	Adjusted Electric Hand Hole		Exist. Drop Intake
	Existing Telephone Line		New Drop Intake
	Existing Telephone Pole		Existing Catch Basin
	Existing Telephone Manhole		Adjusted/Reconstructed Catch Basin
	Adjusted Tele. MH Frame/Cover		Existing Traffic Signal Line
	Existing Telephone Handhole		Existing Traffic Signal Pole
	Existing Telephone Pullbox		Existing Traffic Signal Pullbox
	Adjusted Telephone Pullbox		Adjusted Traffic Signal Pullbox
	Existing AT&T Line		Adjusted Traffic Signal Cabinet
	Existing AT&T Manhole		Existing Loop Detectors
	Adjusted AT&T MH Frame/Cover		Existing Traffic Sign
	Existing Telephone and Cable TV Line		Relocated Traffic Sign
	Existing 8" Water Line		Existing Highway Lighting Standard
	Existing 12" Water Line		Existing Highway Lighting Standard Pullbox
	Existing Water Manhole		Adjusted Highway Lighting Standard Pullbox
	Adjusted Water MH Frame/Cover		Existing Fire Hydrant
	Existing Water Valve Box		Adjusted Fire Hydrant
	Adjusted Water Valve Box		
	Existing Water Meter		
	Adjusted Water Meter Frame & Cover		



IBTS = Inbound Typical Section
OBTS = Outbound Typical Section

TYPICAL SECTION SYMBOL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

KAILUA ROAD

Shoulder Improvements For Bicycle Route
Kalaniana'ole Hwy. To Kawaiunui Bridge
F.A. Proj. No. STP-061-I(33)

Date: Jan. 1999

SHEET No. 1 OF 1 SHEETS