

GENERAL NOTES:

1. The scope of work for this project consists of installing a new traffic signal system with appurtenances, signing, pavement striping and markings and installation of a.c. pavement and curbs.
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. 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. All construction shall be performed in accordance with standard details and standard specifications of the Hawaii Standard Specifications for Road, Bridge and Public Works Construction, 1994 Edition, unless otherwise on the plans or specifications.
6. Locations of existing underground structures and utilities such as pipelines, conduits, cables, etc., manholes monuments and structures shown on plans are approximate only. It is not the intent of these plans to show the exact location of all underground utilities and structures. It is the responsibility of the Contractor to verify the locations of all existing utilities with the respective owners. Existing utilities damaged by the Contractor shall be repaired by the Contractor at his own cost.
7. All holes, depressions and wheel ruts shall be filled and compacted with Asphalt Concrete Pavement, Mix No. V prior to resurfacing. This work will be paid for under Item 401.0400, Asphalt Concrete Pavement, Mix No. IV.
8. The Contractor shall notify in writing, the Oahu Transit Services, Inc. Roads Supervision Office, 811 Middle St., Ho. Hi. 96819 (ph. # 848-4571) seven (7) days prior to any paving operations.
9. The Contractor shall notify the State in writing, two (2) weeks prior to starting paving operation.
10. Existing Thermoplastic Extrusion Pavement Markings and Preformed Pavement Marking Tape shall be removed prior to resurfacing. Removal shall be by scraping, grinding or other method approved by the Engineer. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV.
11. Smooth riding connections shall be constructed at all limits of resurfacing including the beginning and end of projects, transitions, connecting approaches, side streets, and driveways and at the ends of the daily work areas as shown on the plans and/or as directed by the Engineer.
12. Existing drainage system will be functional at all times during construction. Contractor is to furnish materials, equipment, labor tools and incidentals necessary to maintain flow. This work shall be considered incidental to the various contract items.
13. Contractor shall maintain safe access to and from all existing side streets at all times.
14. All saw cutting shall be considered incidental to the various contract items.
15. Cold planed materials shall be utilized on this project to fill in areas adjacent to the paved shoulders as directed by the Engineer. This work shall be considered incidental to Item No. 203.0100, Roadway Excavation, and no separate payment shall be provided.

16. Dressing of shoulder and Bus turnout shall consist of cleaning, grubbing, reshaping and compacting the unpaved shoulders with suitable excavated material as shown on the plans and/or as directed the Engineer. This work shall be considered incidental to the various contract items.
17. Unprotected pavement dropoffs greater than 2" shall not be allowed during non-working hours, except where approved by the Engineer in writing.
18. Public Notice is required for lane closures. Contractor shall submit notice to the Engineer for approval a minimum of three weeks prior to publication. Pre-approval of notice, with the dates left blank, is permissible.
19. The Contractor shall adjust flush to finish grade all manhole, valve, pullbox, and handhole frames & covers including those not shown on the plans, if there is a change in grade due to the construction of the project. If the proposal does not show a contract item, the Engineer will consider them incidental to the various contract item.
20. All necessary permits for work within the jurisdiction of the City and County of Honolulu shall be obtained by the Contractor at his own cost.
21. Maintenance of traffic through the construction area shall be in accordance with part VI of the "Manual On Uniform Traffic Control Devices For Streets And Highway", Federal Highway Administration (1988) and specified in the special provisions. The Contractor shall furnish and maintain adequate barricades, blinkers, construction signs etc., for the safety of the motoring public.

TRAFFIC NOTES FOR WORK ON CITY & COUNTY STREETS:

1. A permit shall be obtained from the Department of Transportation Services before work on any portion of a public street or highway may begin. Construction Traffic Control Plans approved by the Department of Transportation Services must be provided when applying for permit.
2. The Contractor shall provide, install and maintain all necessary signs and other protective facilities, which shall conform with the "Hawaii Administration Rules Governing the use of Traffic Control Devices at work sites on or adjacent to Public Streets and Highways" adopted by the Director of Transportation and the current U. S. Federal Highway Administration's "Manual on Uniform Traffic Control Devices for Streets and Highways, Part VI- Traffic Controls for Street and Highway Construction and Maintenance Operations."
3. Work on any City street area may be performed only between the hours of 8:30 a.m. to 3:30 p.m., Monday through Friday, Unless otherwise permitted by the Department of Transportation Services.
4. During work hours, the Contractor shall provide two lanes for through traffic. On streets too narrow to make this practicable, the Contractor may work in one half of the roadway, keeping one lane open to traffic and alternating the flow of traffic. During non-working hours, All trenches shall be covered with a safe non-skid bridging material and all lanes shall be open to traffic.
5. As required by the Department of Transportation Services, The Contractor shall provide off-duty police officers to control the flow of traffic.
6. Where pedestrian walkways exist. they shall be maintained in passable condition or other facilities for pedestrians shall be provided. Passage between walkways at intersections shall likewise be provided.
7. Driveways shall be kept open unless the owners of the property using these right-of-way are otherwise provided for satisfactorily.
8. Contractor shall reference, to the approval of the Department of Transportation Services. All existing traffic signs, posts, and pavement markings prior to the commencement of construction. The Contractor shall replace or repair all traffic signs, posts and pavement markings disturbed by his activities. The Contractor shall notify the Department to Transportation Services at 523-4029 one (1) week prior to any work to be done on signs, posts, and pavement markings.

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9. No materials and/or equipment shall be stockpiled or otherwise stored within street right-of-way except at locations designated in writing and approved by Department of Transportation Services.
10. State Department of Transportation, shall ensure that the Contractor installs the construction traffic control devices in accordance with the MUTCD and Hawaii Administrative Rules as specified in traffic note #2.

PUBLIC WORKS NOTES:

1. All construction work shall be done in accordance with the Standard Specifications for Public Works Construction, September 1986, and Standard Details for Public Works, City and County of Honolulu and the County of Honolulu and the Counties of Kauai, Maui, and Hawaii.
2. The underground pipes, cables, or ductlines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the location depths of the facilities and exercise proper care in excavation in the area. Wherever connections of new utility to existing utilities are shown on the plan, the Contractor shall expose the existing lines at the proposed connection to verify their locations and depths prior to excavation for the new lines.
3. No Contractor shall perform any construction activity so as to cause falling rocks, soil debris in any form to fall, slide or flow onto adjoining properties, streets or natural watercourses. Should such violation occur, the costs incurred for any remedial action by the Chief Engineer shall be payable by the Contractor.
4. The Contractor shall be responsible for conformance with the applicable provisions of Chapter 54, Water Quality Standards, and Chapter 55, Water Pollution Control, of Title II, Administrative Rule of State Department of Health.
5. The Contractor shall notify the Construction Section, Division of Engineering, Department of Public Works at 527-6311 to arrange for inspectional services and submit three (3) sets of approved Construction Plans seven (7) days prior to commencement of construction work.
6. The Contractor shall be responsible for any sewage spills caused during construction. The Contractor shall notify the State Dept. of Health and utilize appropriate sampling and analyzing procedures. The Contractor shall be responsible for all public notifications and press releases.

DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION GENERAL NOTES FARRINGTON HIGHWAY Intersection Improvements at Auyong Homestead Road Fed. Aid Project No. STP-093-1(17) Date: MARCH, 1997 SHEET No. 1 OF 1 SHEETS

GENERAL NOTES FOR TRAFFIC CONTROL PLAN:

1. The Contractor 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 areas shall be placed first. the other 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. When required by the issuing office, the Contractor shall install a flashing arrow signal as shown on the traffic control plans.
7. All traffic lanes shall be a minimum of ten (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 approximately covered to preclude the display of inapplicable sign messages (i.e., When signs have messages on both faces).
10. The Contractor shall remove all traffic control devices no longer needed at the end of each day's work or as soon as the work is completed, to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation. Replace existing faded or obliterated pavement markings that are necessary for safe traffic flow in the construction area with temporary or permanent markings before opening the roadway to public traffic each day.
11. Replace permanent pavement markings and traffic signs upon completion of each phase of work.
12. See notes for construction within State right-of-way for additional notes.
13. All regulatory, guide and construction signs and barricades shall be of high intensity reflective sheeting.
14. Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1988, and "Standard Highway Signs" 1972, as amended.
15. All construction signs shall have 3/8" bolt holes drilled at appropriate locations.
16. Numerals in () indicate numbers to be inserted for sign message. (R) or (L) indicates right of left.
17. For (CW) Series signs, suffixes a, b, c, & d are as follows: a. 1500 ft, b. 1000 ft c. 50 ft, d. ahead.
18. Signs prefixed with "CW" on the plans shall indicate orange and black construction sign, shall be reflectorized.
19. Layout and installation of pavement marking and striping shall be done by the contractor.
20. A police officer shall control and provide all traffic movements at intersections unless otherwise noted.
21. The Contractor shall maintain existing pedestrian facilities within and around the work area.
22. The traffic control plan shown represents the minimum requirment during construction. The Contractor shall be responsible to provide additional controls in order to maintain the safety of through and local traffic, pedestrian, and workers.

23. Maximum spacing of cones: 25' o.c. at work areas: 10' o.c.

24. Driveway shall be kept open unless the owners of the property using these right-of-way are otherwise provided for satisfactorily.

WATER NOTES:

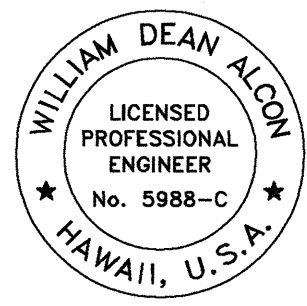
1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the City and County of Honolulu Board of Water Supply's "WATER SYSTEM STANDARDS" VOLUME 1, DATED 1985, THE "APPROVED MATERIAL LIST AND STANDARD DETAILS FOR WATER SYSTEM CONSTRUCTION", VOLUME 2, DATED 1985, THE "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS", VOLUME 3, DATED 1991, and all subsequent amendmends and additions.
2. ALL plans approved by the Board of Water Supply are based solely on the adequacy of the water supply. All other features of the water system, such as lines, grades, fittings, drainage, etc., and other features if improvements shall not be the responsibility of the Board of Water Supply.
3. The existence and location of underground utilities and structures as shown on the plans are from the latest available data but is not guaranteed as to the accuracy or the encountering of other obtacles during the course of the work. The Contractor shall be responsible and pay for all damages to existing utilities. The Contractor shall not assume that where no utilities are shown that none exist.
4. The Contractor shall be responsible for the protection of all water lines during construction. The Contractor shall be especially careful when excatating behind water lines, tees, and bends wherever there is a possibility of water line movement due to the removal of the supporting earth beyond the existing reaction blocks. The Contractor shall take whatever measure necessary to protect the water lines, such as constructing special reaction block (with BWS approval) and/or modifying his construcrction method.
5. Re-approval shall be required if this project in not under construction within a period of two years.
6. At the electrical/signal ducline water crossings, adjust all electrical/signal ducline elevations to maintain 6" vertical clear seperation from all waterlines (12" clear for all electrical/signal ducline structures larger than 16") at no cost to the Board of Water Supply.
7. Maintain 3'-0" min. horizontal clear seperation between all waterline systems and nearest electrical/signal duclines paralleling the water system at no cost to the Board of Water Supply.
8. Maintain 3'-0" horizontal clear seperation between street light/traffic signal, standards (including any modular units) and the nearest water system. Contractor shall field survey for any conflicts at each street light/traffic signal standard location. Where conflict occur, the Contractor shall coordinate with the project engineer to revise the street light/traffic signal standard to provide the required clearances at no cost to the Board of Water Supply.
9. The Contractor shall notify Board of Water Supply Planning and Engineering Division, Construction Section, one week prior to commencing work of water system.
10. The Contractor shall verify all existing service lateral locations whether shown or not shown on plans prior to commencing with any of the work and not assume that where no services are shown none exist.
11. Prior to any excavating, the Contractor shall verify in the field the location of existing water mains and appurtenances. Any adjustments to the existing water system required during construction to meet requirements of BWS Standards, whether shown on the plans or not, shall be done by the Contractor at no cost to the Board.

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12. The Contractor shall adjust all manhole frames/valve boxes within the resurfaced area. Prior to resurfacing, BWS will initially locate all manholes/valve boxes that will required adjustments. The Contractor shall then be responsible for "referencing" these manholes/valve boxes to facilitate the adjustments. The cost for adjusments shall be made at their respective unit prices in the Bid based on the actual number adjusted. Cost for referencing shall be incidental and shall not be paid for directly. Any additional request to BWS to again locate the manholes/valve boxes shall be done at the expense of the Contractor. (BWS will charge and bill the Contractor for all the cost for said additional work.)
13. Maintain 3'-0" minimum cover for all existing waterlines (18" minimum for service laterals) from new finish grade. The Contractor shall probe the waterline and service laterals and submit the probing data to BWS Construction Section. Any adjustments to the existing water system to meet the minimum cover and the requirements of the BWS standards, whether shown on plan or nor, shall be done by the Contractor at no cost to Board
- ~~14. Two-way blue reflective hydrant markers Type DB shall be installed at all fire hydrant locations. Contractor shall verify the exact locations of hydrant markers with the nearest Honolulu Fire Department Battalion Chief. N/A DELETE~~

LEGEND:

	AT&T mh	Existing AT&T Manhole
	smh	Existing Sewer Manhole
	wmh	Existing Water Manhole
	gi	Existing Grate Inlet
	fh	Existing Fire Hydrant
	up #75	Existing Utility Pole and Number
	wm	Existing Water Meter
	HTCo. box	Existing HTCo. Box
		Existing Metal Box
		Mailbox
		Existing Signs with Post
	ovv	Existing Water Valve Box
	x-x-x	Existing Chain Link Fence
	s10"	Existing Sewer Line
	w 8"	Existing Water Line
		New A.C. Curb
	WMH	Adjusted Water Manhole
		Pavement Reconstruction Area
		New Sign with 2 Posts
		New Sign with 1 Post



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

APPROVED:
CHIEF, PLANNING AND ENGINEERING DIVISION
BOARD OF WATER SUPPLY, CITY & COUNTY OF HONOLULU
6/26/97
DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES AND LEGEND

FARRINGTON HIGHWAY
Intersection Improvements at Auyong Homestead Road
Fed. Aid Project No. STP-093-1(17)
Date: MARCH, 1997

SHEET No. 1 OF 1 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	