

HECo NOTES

1. The location of HECo's overhead and underground facilities shown on the plans are from existing records with varying degrees of accuracy and are not guaranteed as shown. The Contractor shall exercise extreme caution whenever construction crosses or is in close proximity of underground lines and shall maintain adequate clearance when operating equipment within or under any overhead lines.
2. The Contractor shall comply with the State of Hawaii's Occupational Safety and Health Law (DOSH).
3. The Contractor shall obtain an excavation permit from HECo's Mapping and Records Division located at 820 Ward Avenue, 4th floor, two weeks prior to starting construction.
4. For verification of underground lines or for assistance in supporting and protecting these lines, the Contractor shall call HECo's Underground Division at 543-7345 a minimum of 72 hours in advance.
5. When trench excavation is adjacent to or beneath our existing structures or facilities, the Contractor is responsible for:
 - a. Sheet piling and bracing the excavation to prevent slides, caveins, and settlements.
 - b. Protecting existing structures or facilities with beams, struts, or under-pinnings.
6. For pole bracing instructions, the Contractor shall call the HECo District Superintendent at (Koolau/261-6085, Waiau/543-4223, Ward/543-7745) a minimum of 72 hours in advance.
7. Any work required to relocate HECo facilities shall be done by HECo and the Contractor shall be responsible for all coordination, and for possible costs it applicable.
8. Should it become necessary to temporarily relocate any of HECo facilities to enable the Contractor to perform his work in a safe and expeditious manner in fulfilling his contract obligations, these temporary relocations will be done by HECo, or by the Contractor under HECo's supervision, with all costs borne by the Contractor.
9. Any unforeseen conflict that would result in the redesign or relocation (either temporary or permanent) of HECo's electrical facilities may be cause for lengthy delays. To avoid such delays, the Contractor must notify HECo of the conflict a minimum of 30 days prior to the start of construction.
10. Any damage to HECo's facilities will be reported immediately to HECo's Trouble Dispatcher at 543-7874.
11. All HECo overhead and underground facilities shall be protected at all times by the Contractor during construction. Costs for damages to HECo facilities shall be borne by the Contractor. This repair work shall be done by HECo or by the Contractor under HECo's supervision.
12. The Contractor shall indemnify, defend and hold harmless HECo from and against all losses, damages, claims and actions, all expenses incidental to such losses, damages, claims or action, based upon or arising out of damage to property or injuries to persons, or other tortious acts caused or contributed to by Contractor or anyone acting under its direction or control or on its behalf; provided Contractor's indemnity shall not be applicable to any liability upon the sole negligence of HECo.
13. Contractor shall use caution when working in close proximity of ductline. HECo requires a minimum clearance of 1'6" from the surface of sidewalk to top of ductline.

GENERAL NOTES

1. The scope of work for this project consists of installing a new traffic signal system, striping and signing.
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. 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.
6. Contractor shall provide for access to and from all existing side streets and driveways at all times.
7. Maintenance of traffic through the construction area shall be in accordance with Part VI, "Standards and Guidelines for Traffic Controls for Street and Highway Construction, Maintenance, Utility and Incident Management Operations", of the "Manual On Uniform Traffic Control Devices For Streets And Highways", Federal Highway Administration (1988 Edition), to include all Revisions and Errata Sheets to Part VI and as specified in the special provisions. The Contractor shall furnish and maintain adequate barricades, blinkers, construction signs, etc., for the safety of the motoring public.
8. The Contractor shall notify the Oahu Transit Services Inc. (OTS), Ed Sniffen, at 848-4571 or Lowell Tom at 848-4578 two weeks prior to beginning any work, informing them of location, scope of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stop.
9. Smooth riding connections shall be constructed at all limits of construction as shown on the plans and/or as directed by the Engineer.
10. All saw cutting work shall be considered incidental to various contract items.
11. Existing drainage system will be functional at all times during construction. Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow, the cost of which shall be considered incidental to the various contract items.
12. 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 construction of the project. If the proposal does not show a contract item, the Engineer will consider them incidental to the various contract item.
13. 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.
14. Dressing of shoulder, sidewalk and bus turnout shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to the various contract items.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-01-00	2000	3	16

LEGEND

—e— Existing Electrical Line	—s-12— Existing Sewer Line
—E— New Electrical Line	—S-12— New 12" Sewer Line
⊙jp Existing Joint Pole	⊙smh Existing Sewer Manhole
⊙pp Existing Power Pole	⊙SMH Adjusted Sewer MH Frame/Cover
⊙emh Existing Electric Manhole	⊙SMH New Sewer Manhole
⊙EMH Adjusted Elec. MH Frame/Cover	—g-6— Existing 6" Gas Line
⊙EMH New Electric Manhole	—G-6— New 6" Gas Line
—t(w)— Existing Underground Telephone Line	⊙gv Existing Gas Valve Box
—t(o)— Existing Overhead Telephone Line	⊙GV Adjusted Gas Valve Box
—T— New Telephone Line	⊙GV New Gas Valve Box
⊙ip Existing Telephone Pole	⊙gmh Existing Gas Manhole
⊙tmh Existing Telephone Manhole	⊙GMH Adjusted Gas MH Frame/Cover
⊙TMH Adjusted Tele. MH Frame/Cover	⊙GMH New Gas Manhole
⊙TMH New Telephone Manhole	⊙mon. Existing Monument
—Δc— Existing Signal Corps Line	⊙MON. Adjusted Monument
—SC— New Signal Corps Line	⊙MON. New Monument
—tv— Existing TV Cable	---d--24--- Existing 24" Drain Line
—TV— New TV Cable	==24" RCP== New 24 " RCP Drain Line
—w-12— Existing 12" Water Line	⊙Δdmh Existing Storm Drain Manhole
—W-12— New 12" Water Line	⊙SDMH Adjusted Storm Drain MH Frame/Cover
⊙wmh Existing Water Manhole	⊙SDMH New Storm Drain Manhole
⊙WMH Adjusted Water MH Frame/Cover	⊙gdi Existing Grated Drop Inlet
⊙WMH New Water Manhole	⊙cb Existing Catch Basin
⊙av Existing Water Air Valve	⊙ Existing Traffic Sign
⊙AV Adjusted Water Air Valve	⊙ Existing Highway Lighting Standard
⊙AV New Water Air Valve	⊙ Existing Transformer Box
⊙wrv Existing Water Valve Box	⊙ Existing Tree to be Trimmed of Lowest Branches
⊙WV Adjusted Water Valve Box	
⊙WV New Water Valve Box	
⊙wm Existing Water Meter	
⊙WM Adjusted Water Meter	
⊙WM New Water Meter	
⊙fh Existing Fire Hydrant	
⊙FH New Fire Hydrant	
⊙FH Adjusted Fire Hydrant	

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY M. Tachibana	3/11/96
DESIGNED BY Steven Yoshida		
QUANTITIES BY		
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES
KALANIANA'OLE HIGHWAY
Installation of Traffic Signals
at Anali Street
Project No. 72C-01-00
Not To Scale Date: Jan., 2000
SHEET No. 1 OF 2 SHEETS

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.
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 9:00 a.m. and 3:00 pm., Monday through Friday, unless otherwise permitted by the Department of Transportation Services.
4. During working hours, the Contractor shall provide two lanes for through traffic. On streets too narrow to make this practicable, the Contractor may work on 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. Pedestrian walkways 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 rights-of-way are otherwise provided for satisfactorily.
8. The 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 of Transportation Services at 523-4029 one (1) week prior to any work on signs, posts and pavement markings.
9. No material and/or equipment shall be stockpiled or otherwise stored within street rights-of-way except at locations designated in writing and approved by the Department of Transportation Services.
10. The Contractor shall install the construction traffic control devices in accordance with the MUTCD and Hawaii Administration Rules as specified in Traffic Note #2.

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 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. 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 appropriately 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.

ELECTRICAL & MAINTENANCE SERVICES
DIVISION NOTES

1. The Contractor shall notify the joint pole committee two (2) weeks in advance of any relocation of utility pole(s) that may be necessary.
2. The Contractor shall notify the Electrical & Maintenance Services Division, Department of Transportation Services, three (3) working days prior to commencing work on the traffic signal system. (Phone: 527-5002).
3. The Contractor shall notify the Electrical & Maintenance Services Division, Department of Transportation Services, three (3) working days prior to commencing work on the fiber optic system. (Phone: 523-4589).
4. The traffic signal and fiber optic systems shall be kept operational during construction. Any relocation or changeover required shall be approved by the Electrical & Maintenance Services Division, Department of Transportation Services, and performed and paid for by the Contractor.
5. The Contractor shall be responsible for any damages to existing traffic signal and fiber optic facilities, including the traffic signal interconnect system and any and all damages to these facilities shall be repaired by the Contractor at his cost in accordance with the requirements of the City and County of Honolulu.

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HAWAII	HAW.	72C-01-00	2000	4	16

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTES	DRAWN BY M. Takafuji	X
NOTES	DESIGNED BY Steven Yoshida	
NOTES	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES
KALANIANA'OLE HIGHWAY
Installation of Traffic Signals
at Anali Street
Project No. 72C-01-00

Date: Jan., 2000