

TRAFFIC NOTES

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 Govering 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. to 3:00 p.m. Monday through Friday, unless otherwise permitted by the Department of Transportation Services.
4. 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 to be done on signs, posts and pavement markings.
5. The Contractor shall be responsible for any damages to existing street lighting and traffic signal facilities located on both City and State Right-of-Ways, and damages shall be repaired by the Contractor, at no additional cost to the State.
6. No material and/or equipment shall be stockpiled or otherwise stored within City and State right-of-way except at locations designated in writing and approved by the Department of Transportation Services.
7. The Contractor shall notify MTL Kenneth Hong at 531-7066, two weeks prior to construction, informing him of the location, scope of work, proposed closure of any traffic lanes.
8. The Contractor shall check and maintain the traffic control devices periodically during working hours at no additional cost to the State. This work shall be considered incidental to the various contract items.
9. Traffic cones shall be 18 inches (minimum) high.
10. All traffic control signs and devices including barricades, arrow boards, traffic cones and other appropriate traffic control appurtenances shall be verified and approved by the Engineer prior to the issuances of the public notice for the lighting work and detour.
11. The permittee shall make minor adjustments at intersections, driveways, bridges, structures, etc. to fit field conditions.
12. Traffic control devices shall be installed such that the sign or devices farthest from the work area shall be placed first, the others shall than be placed progressively toward the work area.
13. Flaggers and/or Police Officers shall be in sight of each other or in direct communication at all times. The State may request for additional police officers at any time.
14. All traffic lanes shall be a minimum of 11 feet wide for freeways, and 10 feet wide for other roadways.
15. All Construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
16. The back 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.)

17. At the end of each days work or as soon as the work is completed, the permittee shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic, removal shall be in the reverse order of installation.

HIGHWAY LIGHTING NOTES

1. The Contractor shall notify Electrical Maintenance Section Department of Transportation, State Highway Division 72 hours in advance before comencing installation of highway lighting system. Phone :548-4077
2. All luminaires shall be high presure sodium type with wattage and I.E.S. type light distribution as shown on the approved plans.
3. The Contractor shall have one set of approved plans at job site at all times during the construction work and record all changes occur on construction of Highway Lighting System.
4. The Contractor to stencil date of installation at the bottom of photocell. One photocell only is required as indicated on plan.
5. Final acceptance and inspection will be undertaken only after all work has been completed.
6. The Contractor shall measure and record ground resistance at each standard and submit recorded ground resistance to Traffic Section, and Oahu District Maintenance Section, Department of Transportation, State Highway. The Contractor's electrical engineer shall certify all electrical tests, including but not limited to: Continuity Test and the Ground Rod Resistant Test prior to submission to the District Engineer.
7. Trim tree branches to clear removal or installation of street light standards, at no additional cost to the State.
8. Construction work shall be scheduled in such a manner that street lighting is provided during all hours of darkness either with new or existing luminaires or a combination thereof temporary connections shall be made to accomplish this end. The continuity of series street lighting circuits shall be maintained until the existing series street lighting fixtures are ready for removal.
9. Where existing series circuit highway lighting luminaires on metal standards are indicated to be removed the luminaire and pole shall be removed and disposed of by the Contractor. The foundation shall be demolished to 24" below grade and the surfaces affected shall be restored to match the surroundings.
10. New pole locations shall be staked and approval of locations shall be obtained from the Engineer before pole locations in the field will be required to clear underground and aerial utility lines.
11. The Contractor shall at his expense keep the project and surrounding area free from dust nuisance and shall be responsible for cleaning and removal of all silt and debris generated by the excavation work and deposited and accumulated within downstream waterways, ditches, drain pipes and on public roadways. Any citations (fines) received by the State for the Contractor's non-compliance of any Department of Health regulations shall be deducted from the progress payment.
12. The Contractor shall locate existing buried utility lined in the vicinity of the excavation work prior to commencing excavation, as a minimum an electronic magnetic device for detection of buried lines shall be utilized prior to excavation. Trenches shall be excavated with care. The Contractor shall be responsible for damages to existing utilities resulting from his negligence and shall bear cost of repairs to the utilities. Method of repair shall be determined by the State.

13. The Contractor shall reconnect electrical power to all existing sign lighting system and underpass lighting fixtures. The Contractor shall provide additional wiring and conduit as required for an operational system, at no additional cost to the State.
14. After the exact location of the lighting pole base is determined, place 2" x 2" x 18" hubs at these locations to inform the Contracting Officer for final location approval prior to construction of light bases. Actual field conditions may differ from that shown on these drawings. Use extreme caution when excavating for new ductlines.
15. Provide conduit expansion fitting to accomodate expansion and deflection where conduits cross seismic control and expansion joints of bridge structures. Expansion fittings shall be:
  - a. Weathertight construction
  - b. Insulator bushing on end of movable conduit.
  - c. Factory-formed copper braid ring allowing conduit expansion and contraction.
  - d. End fitting of feraloy
  - e. Steel conduit body
  - f. Zinc electroplate and aluminum cellulose lacquer finish
  - g. 8" maximum conduit movement
  - h. Crouse-hinds XJ series or approved equal
16. The electrical Contractor shall have personnel on the project that comply with the following qualifications:
  - a. One (1) Registered Master Electrician in the company.
  - b. Certified journeyman electrician at each construction location to perform splicing of cables and all required wiring work.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(66)	1998	7	61

ORIGINAL PLAN	DATE
NOTED BY	2-3-99
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
NOTED BY	
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
NOTED BY	
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>TRAFFIC AND HIGHWAY LIGHTING NOTES</b> HIGHWAY LIGHTING SAFETY IMPROVEMENTS FEDERAL AID PROJ. NO. STP-0300(66) Date: Apr., 1998 SHEET No. 1 OF 1 SHEETS
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