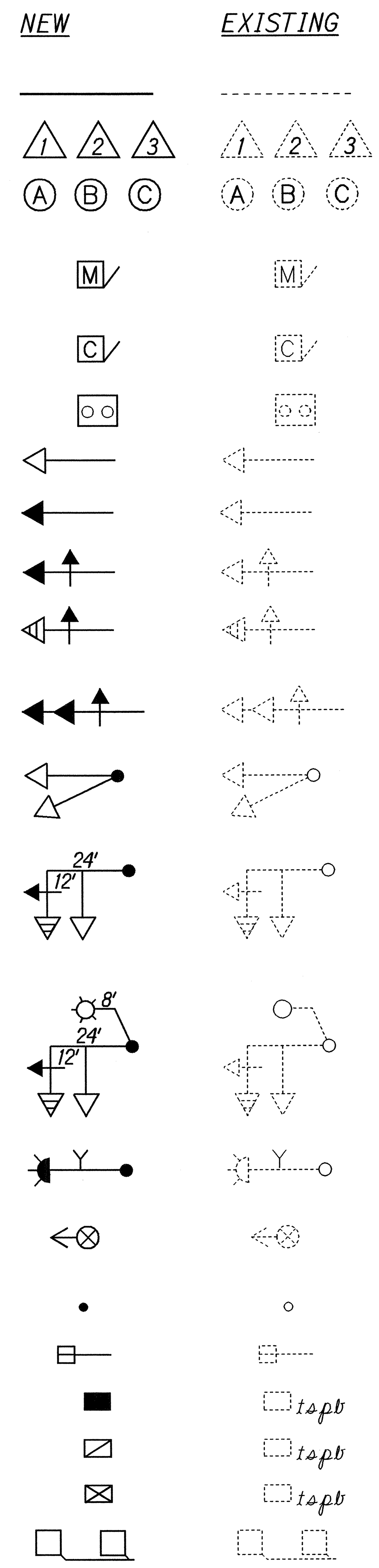
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83G-01-03M	2005	43	47

TRAFFIC SIGNAL NOTES

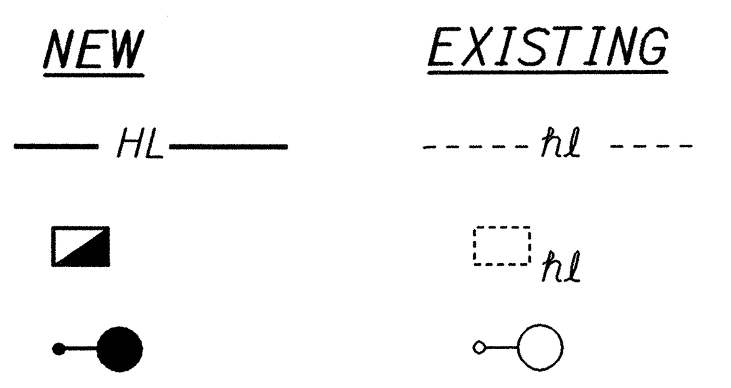
1. The locations of the Traffic Signal Standards, Traffic Signal Standards w/Mast Arms, Pedestrian Push Buttons, Traffic Controller, Pullboxes, Conduits and Loop Detectors shall be staked out in the field by the Contractor and approval of the locations shall be obtained from the Engineer prior to construction and installation.
2. All splicing shall be done in the pullboxes.
3. Furnishing and installing the conduit stubouts (pullboxes to edge of pavement) will not be paid for separately but shall be considered incidental to the various contract items.
4. A solid #8 bare copper wire shall be pulled with the traffic signal control cable for equipment ground. Cost shall be incidental to the installation of the control cable.
5. All traffic signal work shall conform to the requirements of the "Manual On Uniform Traffic Control Devices For Streets And Highways", Federal Highway Administration (2003) and Amendments.
6. Locations of traffic markings and markers (lane lines, Stop lines, crosswalk, etc.) shown on the plans shall be verified with the Engineer prior to the installation of the traffic signal system.
7. All Conduits between pullboxes and Traffic Signal/Highway Lighting Standards shall not be paid for separately but shall be considered incidental to the various contract items.
8. All Signal-Drop Cables (Type 5 Cables) from the various Types of Traffic Signal Head on the traffic signal standards and mast arms to the pullboxes shall not be paid for separately but considered incidental to the Traffic Signal Head.
9. After installing all the traffic signal cables, the Contractor shall duct seal all conduits in the pullboxes, traffic signal standards and traffic signal controller cabinet concrete base. The duct seal material shall be approved by the Traffic Signal Inspector/Engineer and shall not be paid for separately but considered incidental to the direct buried and/or concrete encased conduits.
10. After installing the Traffic Signal System, the Contractor shall apply grease to all parts of the Traffic Signal System (i.e. fittings, brackets, nipples, elbows, screws, signal head assemblies, bolts, hinges, etc.) as directed by the Traffic Signal Inspector, to prevent rust and corrosion. The grease material shall be approved by the Signal Inspector, and shall not be paid for separately but considered incidental to the various Traffic Signal items.
11. Connecting into existing traffic signal system and making all necessary adjustments shall not be paid for separately, but considered incidental to the various traffic signal contract items.
12. The Contractor shall notify the Traffic Control Branch, Department of Transportation Services, City & County of Honolulu, (Phone No. 523-4589) three (3) working days prior to commencing any work on the traffic signal system.
13. The traffic signal system shall be kept operational during construction. Any temporary traffic signal relocation required shall be approved by the Traffic Control Branch, Department of Transprotation Services, and paid for by the Contractor.
14. The Department of Transportation Services, City & County of Honolulu, may assist the Engineer in construction inspection for the traffic signal system. The Contractor shall notify the Electrical and Maintenance Services Division, Department of Transportation Services, three (3) working days prior to commencing work on the traffic signal system (Phone No. 564-6101).
15. Existing traffic signal pullboxes in sidewalks shall be removed by demolishing the top 6" of box, filling with #3 rock, and patching with 4" concrete to match existing.

TRAFFIC SIGNAL LEGEND



- Traffic Signal Conduit
- Conduit Run Numbers
- Equipment description, installation or item no.
- Traffic Signal Master Controller Door Indicates Front of Cabinet
- Traffic Signal Controller Door Indicates Front of Cabinet
- Meter Pedestal
- 12" RYG Traffic Signal Head
- 12" RY↑ Traffic Signal Head
- 12" R Y/G Traffic Signal Head
- 12" R Y/G Traffic Signal Head (Programmed Visibility)
- 12" RYG G/Y Fiber Optic Traffic Signal Head
- Type I Standard and Attached Signals
- Type II Standard with Signal Mast Arm and Attached Signals (Nos. indicates mast arm length & distance between signal heads as specified on plans)
- Type III Standard with Luminaire and Signal Mast Arm and Attached Signals (Nos. indicates mast arm lengths & distance between signal heads as specified on plans)
- Flashing Beacon, One Signal Section, "Y" indicates 12" Yellow Lens
- Opticom Receiver (Arrow indicates direction detector faces)
- Pipe Guard
- Pedestrain Signal Head
- Type A Pullbox
- Type B Pullbox
- Type C Pullbox
- Loop Detectors

HIGHWAY LIGHTING LEGEND



- Highway Lighting Conduit
- Type A Pullbox (Hwy. Ltg.)
- Highway Lighting Standard

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | NOTE BOOK | DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL LEGEND AND NOTES

KAMEHAMEHA HIGHWAY RESURFACING
Kahiko Street to Pali Highway
Project No. 83G-01-03M

Date: Oct. 2004

SHEET No. TS1 OF 5 SHEETS