### LEGEND

(S)

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NEW TYPE "B" TSPB,

NEW TYPE "A" TSPB.

NEW CONTROLLER AND BASE.

NEW OVERHEAD CABLE DROP.

NEW TYPE I SIGNAL STANDARD WITH VEHICULAR(I) AND PEDESTRIAN (2) SIGNAL FACES.

NEW TYPE I SIGNAL STANDARD WITH 25' MAST ARM AND VEHICULAR AND PEDESTRIAN SIGNAL FACES. (1) PROGRAMMED VISIBILITY SIGNAL (2) STANDARD SIGNAL (3) PEDESTRIAN SIGNAL

REMOVE AND/OR DEMOLISH ENCLOSED STRUCTURE AND

ATTACHED SIGNAL EQUIPMENT IN ADDITION TO TSS.

NEW CONDUITS) WITH SIZE AND NUMBER OF CABLES

WITHIN THE TRIANGLE SHALL APPLY ONLY TO THAT

NEW SIGNAL FACES ON EXISTING TSS OR SLP.

NEW MASTER CONTROLLER AND BASE.

PARTICULAR INTERSECTION OR DRAWING ON WHICH

ASINDICATED ON SCHEDULE . THE NUMBER DESIGNATION

CONSTRUCT NEW TSPB AT SAME LOCATION. PULLBOXES AND CONDUITS SHALL BE STAKED OUT BY THE CONTRACTOR REMOVE AND/OR DEMOLISH ENCLOSED STRUCTURE IF ENCLOSED STRUCTURE IS A TSS, REMOVE ALL

> 5. CONDUIT BETWEEN SIGNAL POLE AND ADJACENT TSPB SHALL BE ONE 2" PVC CONDUIT. GROUND WIRE AND A SUFFICIENT NUMBER OF TYPE 5 CABLES SHALL BE INSTALLED WITHIN THE CONDUIT TO SERVICE ALL PEDESTRIAN AND YEHICULAR SIGNALS ON THAT POLE.

6. ALL VEHICULAR SIGNAL LENS SHALL BE 12" IN DIAMETER.

7. ALL BURIED CONDUCTORS SHALL BE INSTALLED IN CONDUITS EXCEPT FOR TYPE 4 SENSOR LOOP CABLES. CONDUIT AT CURBLINES AND EDGE OF PAVEMENT LINES COLLECTING TYPE 4 CABLES SHALL BE OF

8. CONSTRUCTION OF SIGNAL SYSTEMS WILL BE SUBJECT TO THE INSPECTION OF THE C &C DEPARTMENT OF TRANSPORTATION

9. THE CAC DEPARTMENT OF TRANSPORTATION SERVICES WILL MAKE ALL CONNECTIONS AND SPLICES AT TSPB'S, SIGNAL FACES, STANDARDS AND CONTROLLER TERMINAL BLOCKS, BUT NOT WORK ON GROUNDING SYSTEMS NOR CONNECTIONS WITHIN THE CONTROLLER ASSEMBLY. THE CONTRACTOR SHALL NOTIFY THE C&C D.T.S. AT LEAST 3 WORKING DAYS PRIOR TO THE TIME AT WHICH SUCH WORK CAN BE PERFORMED.

10. A BARE COPPER IC #8 WIRE SHALL BE INSTALLED ALONG THE ENTIRE TRAFFIC SIGNAL GROUNDING SYSTEM.

11. WHERE SIGNAL FACES AND STANDARDS ARE TO BE REMOVED, THEY SHALL BE CAREFULLY DISMANTLED. THE ENGINEER WILL DETERMINE WHETHER THE REMOVED MATERIALS SHALL BE DISPOSED OF, SALVAGED OR REUSED.

12. ALL SENSOR LOOPS SHALL BE CENTERED WITHIN THEIR RESPECTIVE LANES

13. EXISTING PAVEMENT MARKINGS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR. COST SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.

	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
and the second second	HAWAII	HAW.	HES-092-1(20)	1985⊬	, 2	33

### TYPES OF SIGNAL FACES

PEDESTRIAN SIGNAL : HAND & MAN. H + M

3-SECTION VEHICULAR SIGNAL: R+Y+G RED, YELLOW AND GREEN.

**R+Y+** ↑

3-SECTION VEHICULAR SIGNAL: RED, YELLOW AND GREEN ARROW.

P(R+Y+ ---) 3-SECTION PROGRAMMED VISIBILITY VEHICULAR SIGNAL : RED, YELLOW

AND GREEN ARROW.

## TYPES OF SIGNAL MOUNTINGS

= BRACKET MOUNTING, I-WAY.

= CANTILEVER MOUNTING, I-WAY.

US - IW = UNDERSLUNG MOUNTING, I-WAY.

TP-2W = TOP OF POLE MOUNTING, 2-WAY.

MA- IW = MASTARM MOUNTING , I-WAY

# TYPES OF CABLES

--- NEW OVERHEAD CABLES.

IT APPEARS.

SIGNAL LOOP CABLE, 26 C # 14

VEHICLE DETECTOR LEAD IN CABLE, 20 # 14

CABLE FROM SIGNAL LOOP TO SIGNAL FACE, IC#14

# ABBREVIATIONS

TRAFFIC SIGNAL STANDARD

TRAFFIC SIGNAL PULLBOX

STREET LIGHT ON STEEL POLE Carrier Comment

STREET LIGHT ON WOODEN POLE

WOODEN FOLE

REGISTERED ENGINEER No. 864

THIS WORK WAS PREPARED BY ME OF UNDER MY SUPERVISION.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

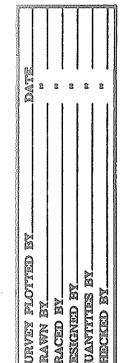
GENERAL NOTES AND LEGEND

MODERNIZATION OF TRAFFIC SIGNAL SYSTEM ALA MOANA BLYD., PUNCHBOWL ST. TO WARD AVE. PROJECT NO. HES-092-1(80)

SCALE: NO SCALE

DATE: 11/2/84

SHEET NO. 1 OF 1 SHEETS



INTERCONNECT CABLE, 240 # 20 SENSOR LOOP CABLE, 10#12 SERVICE CABLE, 3C \*6 TYPE 6 TYPE 7 PPB CIRCUIT CABLE, 2C #14

THE CONTRACTOR SHALL VERIFY WITH THE RESPECTIVE UTILITY COMPANIES AND GOVERNMENT AGENCIES, THE LOCATIONS OF ALL

GENERAL NOTES

ELECTRIC, TELEPHONE, TRAFFIC SIGNAL, STREET LIGHT, FIRE ALARM, GAS, WATER, SEWER, DRAIN AND OTHER LINES CROSSING THE EXCAVATION PATH OR IN EXCAVATION AREAS. ANY AND ALL DAMAGES TO THE EXISTING LINES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. ALL STRUCTURES, PAVEMENTS, UTILITIES, LANDSCAPING AND OTHER TOPOGRAPHICAL FEATURES SHOWN ON THE INTERSECTION DRAWINGS ARE EXISTING AND ARE TO REMAIN UNLESS NOTED OR INDICATED OTHERWISE.

3. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AND GOVERNMENT AGENCIES OF HIS INTENT TO BEGIN CONSTRUCTION ON ANY INTERSECTION OR STREET AT LEAST TWO (2) WEEKS PRIOR TO THE START OF SUCH CONSTRUCTION.

4. THE LOCATIONS OF TRAFFIC SIGNAL STANDARDS, CONTROLLERS, AND APPROVED BY THE ENGINEER PRIOR TO ANY EXCAVATION. SCHEDULE 80 PVC CONDUIT SHALL BE USED IN PAVEMENT AREAS; SCHEDULE 40 MAY BE USED IN SIDEWALK AREAS.

2" STEEL.

SERVICES IN ADDITION TO THAT OF THE STATE.