# STANDARD PLANS SUMMARY

Date

07/01/86

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	၁၁ C-01-89	୲୭୫୭	2	5

B-02		
B-03	Typical Structure Excavation and Backfill Pay Limits	07/01/86
B-04		
B-05		
B-06	Concrete Box Girder	07/01/86
B-07	Concrete Box Girder	07/01/86
B-08	Concrete Box Girder	07/01/86
B-09		
B-10		
B-11		
B-12	Prestressed Concrete Piles	07/01/86
B-13	Prestressed Concrete Piles	07/01/86
D-01	Chain Link Fence With Toprail	r 03/06/8
D-02	Chain Link Fence Without Toprail	07/01/86
D-03	Wire Fence With Metal Posts	07/01/86
D-04	Typical Details of Curbs and/or Gutters	07/01/86
D-05	Typical Details of Reinforced Concrete Drop Driveway	07/01/86
D-06	Centerline and Reference Survey Monument	07/01/86
D-07	Street Survey Monument	07/01/86
D-08	Landscaping Shrub and Tree Planting	07/01/86
D-09	Field Office	07/01/86
D-10	Field Office	07/01/86
D-11	Project Site Laboratory	07/01/86
D-12	Project Site Laboratory	07/01/86
D-13	Field Office & Project Site Laboratory	07/01/86
H-01	Type A, B, C and D Catch Basin	07/01/86
H-02	Type A1, B1, C1 and D1 Catch Basin	07/01/86
H-03	Type A2, B2, C2 and D2 Catch Basin	07/01/86
H-04	Typical Reinforcing Details for Catch Basins	07/01/86
H-05	Type A, B and C Storm Drain Manhole	07/01/86
H-06	Type D and E Storm Drain Manhole	07/01/86
H-07	Type F Storm Drain Manhole	07/01/86
H-08	Catch Basin and Manhole Casting	07/01/86
H-09	Type A-9 and A-9P Frames and Grates	07/01/86
H-10	Type A-9B Frames and Grates	07/01/86
H-11	Type 61614 and 61214 Grated Drop Inlet	07/01/86
H-12	Type 61616 Grated Drop Inlet	07/01/86
H-13	61214, 61614 & 61616 Steel Frames and Grates	07/01/86
H-14	61214B Steel Frame and Grates	07/01/86
H-15	61614B Steel Frame and Grates	07/01/86
H-16	Concrete and Cement Rubble Masonry Structures	07/01/86
H-17	Inlet Structures	07/01/86
H-18	Flared End Section for Culverts	07/01/86
H-19	Outlet Structures	07/01/86
H-20	Concrete Spillway Inlet	07/01/86
	18" Slotted C. M. P. Drain	07/01/86
H-21		
H-21 H-22	C. M. P. Coupling Details Standard Joint	07/01/86

Notes and Miscellaneous Details

Standard Plan No.	Title	Date
TE-01	Miscellaneous Sign Details	07/01/86
TE-02	Galvanized Flanged Channel Sign Post Mounting	07/01/8
TE-03	Galvanized Square Tube Sign Post Mounting	07/01/8
TE-04	Regulatory Signs	r09/01/8
TE-05	Warning Signs	07/01/8
TE-06	Miscellaneous Signs	r 09 /0 1 / 8
TE-07	Reserved	07/01/8
·TE-08	Construction Signs	r09/01/8
TE-09	Miscellaneous Intersection Signs	r 03/06/
TE-10	Reserved	07/01/8
TE-11	Bike Route Sign and Supplementary Plates	07/01/8
TE-12	State Route Marker and Auxiliary Markers	07/01/8
TE-13	Interstate Route Marker	07/01/8
TE-14	State Route Marker and Border Detail for Guide Signs	07/01/8
TE-15	Route Marker Assemblies	07/01/
TE-16	Miscellaneous Reflector Markers	07/01/
TE-17	Type II Object Markers	07/01/
TE-18	Mileposts	07/01/
TE-19	Reserved	07/01/
TE-20	Overhead Sign Supports	07/01/
TE-21	Overhead Sign Support, Box Truss Type, Aluminum	07/01/
TE-22	Foundation Details and Schedules	07/01/
TE-23	Destination & Ground Mounted Expressway Signs	07/01/
TE-24	Breakaway Sign Supports for Ground Mounted Guide Signs	07/01/
TE-25	Laminated Aluminum Sign Panels (Overhead)	07/01/
TE-26	Laminated Aluminum Sign Panels (Ground Mounted)	07/01/
TE-27	Solid Aluminum Extruded Sign Panel and Accessory Details	07/01/
TE-28	Guide Signs Luminaire Mountings	07/01/
TE-29	Reserved	07/01/
TE-30	Raised Pavement Markers and Striping	07/01/
TE-31	Miscellaneous Pavement Markings	07/01/
TE-32	Miscellaneous Pavement Markings	r09/01/8
TE-33	Miscellaneous Pavement Markings	07/01/
TE-34	Reserved	07/01/8
TE-35	Pavement Alphabets, Numbers & Symbols	07/01/9
TE-36	Pavement Alphabets, Numbers & Symbols	07/01/8
TE-37	Reserved	07/01/8
TE-38	Traffic Signal System, Miscellaneous Details	07/01/8
TE-39 •	Traffic Signal System, Miscellaneous Details	07/01/8
TE-40	Loop Detectors	103/06/
TE-41 •	Pullboxes	07/01/8
TE-42	Type III Traffic Signal Standard	07/01/8
TE-43	Concrete Pullbox (2' x 3')	07/01/8
TE-44	Reserved	07/01/8

Standard Plan No.	Title	Date	
TE-45	5 Reserved		
TE-46	Reserved	07/01/86	
TE-47	Reserved	07/01/86	
TE-48	Reserved	07/01/86	
TE-49	Reserved	07/01/86	
TE-50	Metal Guardrail	r 03/06/87	
TE-51	Metal Guardrail	r09/01/87	
TE-52	Metal Guardrail with Rubrail	07/01/86	
TE-53	Metal Guardrail with Rubrail at Obstruction	r 09 /01 /87	
TE-54	Beam Type Guardrail with Rubrail at Obstruction (Shoulder Installation)	r09/01/87	
TE-55	Metal Guardrail Connection to Concrete Barrier	r09/01/87	
TE-56	Concrete Barrier Transition	07/01/86	
TE-57	Guardrail Type 3, Thrie Beam	r09/01/87	
TE-58	Approach End Flare, One & Two Way Roadway	07/01/86	
TE-59	Trailing End Flare, One & Two Way Roadway	r 09 /01 / 87	
TE-60	Anchor Block Details	07/01/86	
TE-61	Breakaway Cable Terminal (BCT)	r 03/06/87	
TE-62	Breakaway Cable Terminal (BCT)	r09/01/87	
TE-63	Guardrail Type 4 (Rigid Barrier)	r09/01/87	
TE-64	Portable Concrete Guardrail	r 03/06/87	
TE-65	Guardrail Type 4, Miscellaneous	r09/01/87	
TE-66	Barricades	07/01/86	
TE-67	Delineation & Pavement Markings at Bridges	07/01/86	
TE-68	Wheelchair Ramps	07/01/86	
TE-69	Wheelchair Ramps	r09/01/87	

STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A "O" NEXT TO THE STANDARD PLAN NO. (D-07.●)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD PLANS SUMMARY

KAMEHAMEHA HIGHWAY TRAFFIC SIGNALS AT WILIKINA DRIVE
PROJECT NO. 22C-01-82

SHEET No. 2 OF 5 SHEETS

DATE

09/01/87 REVISED STANDARD PLANS TE-04, TE-06, TE-08, TE-32, TE-51, TE-53, TE-54, TE-55, TE-57, TE-59, TE-62, TE-63, TE-65 & TE-69.

03/06/87 REVISED STANDARD PLANS D-01, TE-09, TE-40, TE-50, TE-51, TE-57, TE-59, TE-61, TE-63 AND TE-64

REVISION

#### TRAFFIC SIGNAL NOTES

- 1. ALL TRAFFIC SIGNAL CONTROLLER EQUIPMENT SHALL BE COMPLETELY WIRED IN THE CABINET AND SHALL CONTROL THE TRAFFIC SIGNALS AS CALLED FOR IN THE PLANS.
- 2. SIGNAL INDICATIONS DURING CLEARANCE INTERVAL:
  - A. IF A SIGNAL IS G OR  $\leftarrow$ G AND WILL REMAIN G OR  $\leftarrow$ G DURING THE NEXT PHASE, IT SHALL BE G OR < G DURING THE CLEARANCE INTERVAL.
  - B. IF A SIGNAL IS G OR  $\leftarrow$ G AND WILL BECOME R OR EXTINGUISHED DURING THE NEXT PHASE, IT SHALL BE Y OR < Y DURING THE CLEARANCE INTERVAL.
  - C. IF A SIGNAL IS R AND WILL REMAIN R OR BECOMES G DURING THE NEXT PHASE, IT SHALL REMAIN R DURING THE CLEARANCE INTERVAL.
- 3. A SOLID #8 BARE COPPER WIRE SHALL BE PULLED WITH THE TRAFFIC CONTROL CABLE FOR EQUIPMENT GROUND. COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE CONTROL CABLE.
- 4. CONTRACTOR SHALL INSTALL METER SOCKET AND BREAKER ON POWER POLE NO. I AS SHOWN ON PLANS IN ACCORDANCE WITH HECO REQUIREMENTS. METER SHALL BE MOUNTED BETWEEN 5' AND 7' ABOVE GROUND. METER SOCKETS SHALL BE 4-PRONG, COMPLETE WITH A MANUAL CIRCUIT CLOSING DEVICE.

#### LEGEND

- NEW TRAFFIC SIGNAL STANDARD
  - MOUNTED ON TYPE I SIGNAL STANDARD, HEIGHT = 10' TRAFFIC SIGNAL HEADS MOUNTED ON TYPE II SIGNAL

STANDARD, ARM SPREAD SHOWN IS 30' AND DISTANCE BETWEEN SIGNAL HEADS IS 12'

STANDARD TRAFFIC AND PEDESTRIAN SIGNAL HEADS

12" RY ← TRAFFIC SIGNAL HEAD

CONTROLLER CABINET

TRAFFIC SIGNAL HEAD

12" RY ← PROGRAMMABLE TRAFFIC SIGNAL HEAD

TYPE "A" PULLBOX

LOOP DETECTOR, SERIES-PARALLEL CONNECTED

LOOP DETECTOR, SERIES CONNECTED

TYPE "B" PULLBOX

LIGHT POLE

POWER POLE

WATER VALVE

WATER METER

SEWER MANHOLE

EXISTING MARKINGS

EXISTING UTILITY LINES AND SIZES AS INDICATED

W = WATER

= SEWER

T = TELEPHONE

CATV = CABLE TV

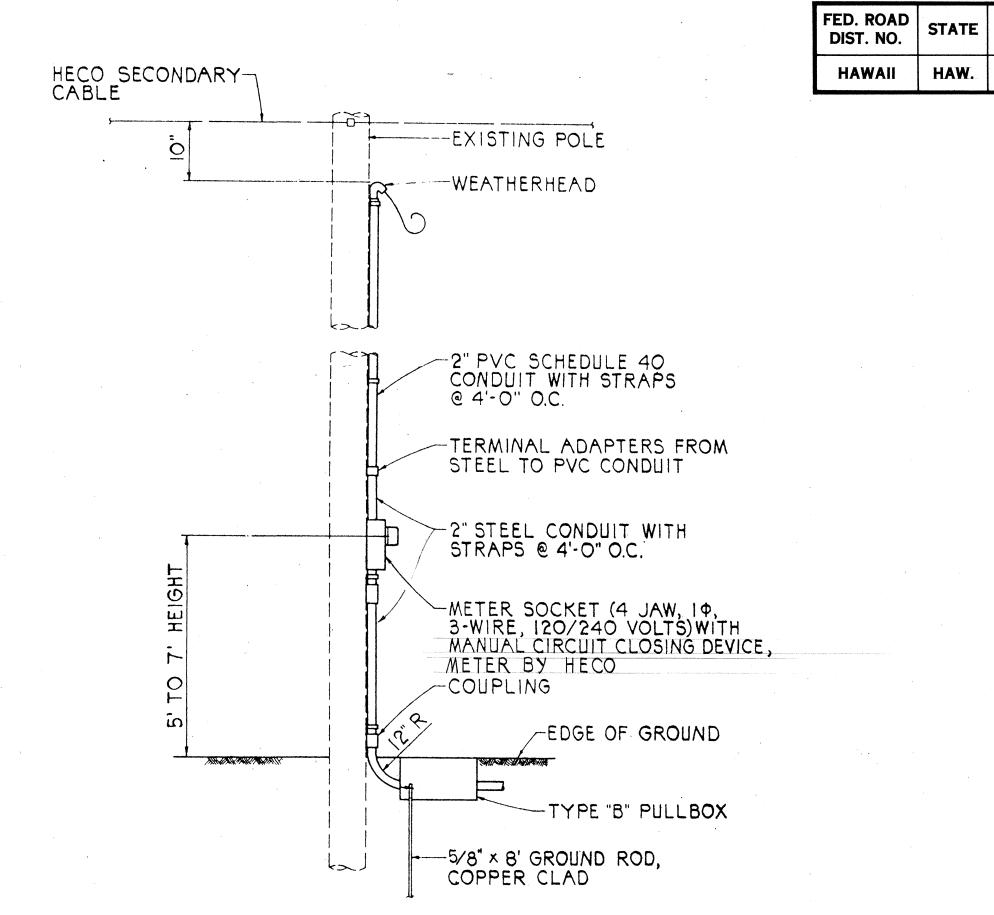
SCC = SIGNAL CORPS

= ABANDONED

= STREET LIGHT

#### CONSTRUCTION NOTES

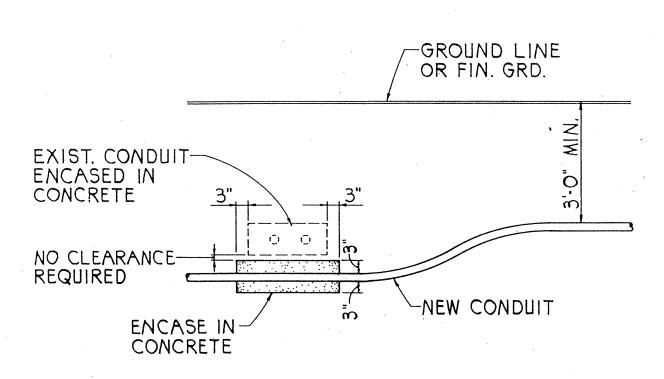
- 1. LOCATIONS OF EXISTING UNDERGROUND STRUCTURES AND UTILITIES SUCH AS PIPE-LINES, CONDUITS, CABLES, ETC., SHOWN ON PLANS ARE APPROXIMATE ONLY. IT IS NOT THE INTENT OF THESE PLANS TO SHOW THE EXACT LOCATION OF ALL UNDER-GROUND UTILITIES AND STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRAC-TOR TO 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.
- THE LOCATIONS OF THE TRAFFIC SIGNAL STANDARDS, TRAFFIC SIGNAL STANDARDS WITH MAST-ARM, PEDESTRIAN PUSH BUTTONS, TRAFFIC CONTROLLER, PULLBOXES, CONDUITS AND LOOP DETECTORS SHALL BE STAKED OUT IN THE FIELD BY THE CON-TRACTOR AND APPROVAL OF THE LOCATIONS SHALL BE OBTAINED FROM THE ENGINEER PRIOR TO CONSTRUCTION AND INSTALLATION.
- 3. ALL TRAFFIC SIGNAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", FEDERAL HIGHWAY ADMINISTRATION (1984) AND AMENDMENTS.
- 4. LOCATIONS OF TRAFFIC MARKINGS AND MARKERS (LANE LINES, STOP LINES, CROSS-WALK, ETC.) SHOWN ON THE PLANS SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE INSTALLATION OF THE TRAFFIC SIGNAL SYSTEM.
- 5. MAINTENANCE OF TRAFFIC THROUGH THE CONSTRUCTION AREA SHALL BE IN ACCOR-DANCE WITH PART VI OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", FEDERAL HIGHWAY ADMINISTRATION (1984) AND AS SPECI-FIED IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE BARRICADES, BLINKERS, CONSTRUCTION SIGNS, ETC., FOR THE SAFETY OF THE MOTORING PUBLIC.
- 6. DEPARTMENT OF TRANSPORTATION SERVICES, CITY AND COUNTY OF HONOLULU, WILL ASSIST THE ENGINEER IN CONSTRUCTION INSPECTION FOR THE TRAFFIC SIGNAL SYS-
- 7. EXISTING STOP SIGN SHALL BE REMOVED AND RETURNED TO THE ENGINEER. COSTS SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK.



## SERVICE POLE DETAIL NOT TO SCALE

### NOTE: COST OF CONC. FILLED GALYANIZED POSTS STANDARD WEIGHT SHALL BE INCIDENTAL TO OTHER ITEMS 4" STEEL PIPE FILLED OF WORK. WITH CONCRETE -CONTROLLER CABINET PAINT PIPE YELLOW FIN. GRD. -CONC. FOOTING STANDARD WEIGHT 4" STEEL PIPE FILLED WITH CONCRETE P TYP ELEVATION

# PIPE GUARD DETAIL NOT TO SCALE



# CONDUIT BY-PASS DETAIL

NOT TO SCALE



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION Sheodore & Kawahigas

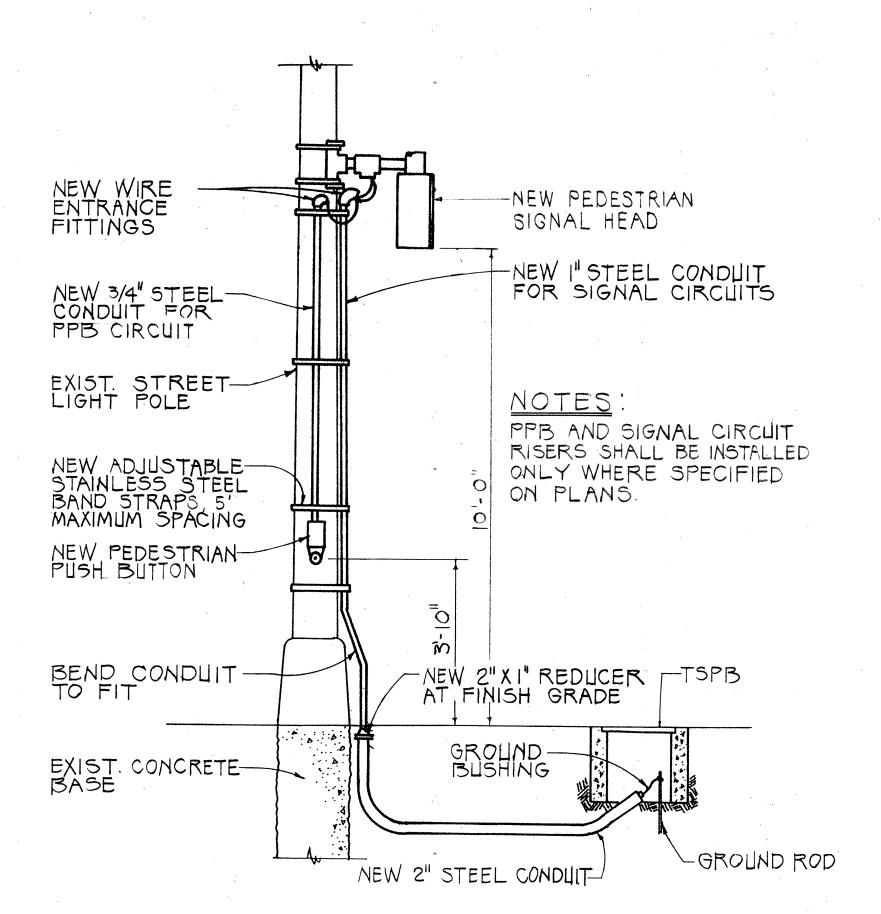
#### STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

LEGEND AND NOTES

KAMEHAMEHA HIGHWAY TRAFFIC SIGNALS AT WILIKINA DRIVE PROJECT NO. 22C-01-82

DATE: OCT. 1988 SCALE: NONE

SHEET No. 3 OF 5 SHEETS



# STREET LIGHT POLE RISER DETAIL NOT TO SCALE

0-88-262

FISCAL SHEET TOTAL

3

NO. SHEETS

YEAR

1989

PROJ. NO.

HAW. 990-01-89

DIST. NO.

HAWAII