EQUIPMENT SCHEDULE

THE HAWAIIAN ELECTRIC Co. (HECO), SANDWICH ISLES COMMUNICATIONS, INC. (SIC), COMMUNITY ANTENNA TELEVISION & STREET LIGHTING PULLBOXES, HANDHOLE, TRANSFORMER PAD LOTS & SWITCHING EQUIPMENT PAD LOTS SHALL BE CONSTRUCTED BY THE CONTRACTOR AS SHOWN IN THESE DRAWINGS & IN ACCORDANCE WITH THE FOLLOWING STANDARD DRAWINGS:

TYPE	DESCRIPTION
2' X 4' HECO PULLBOX	2' X 4' PRECAST CONCRETE PULLBOX WITH PRECAST CONCRETE COVER, PROVIDED IN ACCORDANCE WITH HECO STANDARD DRAWING NO. 30-2005.
3' X 5' HECO HANDHOLE	3' X 5' PRECAST CONCRETE HANDHOLE WITH PRECAST CONCRETE COVER, PROVIDED IN ACCORDANCE WITH HECO STANDARD DRAWING NO. 101020.
4' X 6' HECO HANDHOLE	4'-0" X 6'-0" REINFORCED CONCRETE HANDHOLE WITH PRECAST CONCRETE COVERS, PROVIDED IN ACCORDANCE WITH HECO STANDARD DRAWING NO. 101024.
5' X 8' HECO HANDHOLE	5'-0" X 8'-0" REINFORCED CONCRETE HANDHOLE WITH PRECAST CONCRETE COVERS, PROVIDED IN ACCORDANCE WITH HECO STANDARD DRAWING NO. 100907.
6' X 11' HECO MANHOLE	6-0"' X 11'-0" REINFORCED CONCRETE MANHOLE WITH TRAFFIC RATED FRAME AND COVER, PROVIDED IN ACCORDANCE WITH HECO STANDARD DRAWING NO. 100726.
6' X 14' HECO MANHOLE	6'-0" X 14'-0" REINFORCED CONCRETE MANHOLE WITH CAST IRON FRAME AND COVER, PROVIDED IN ACCORDANCE WITH HECO STANDARD DRAWING NO. 100912.
7' X 16' HECO MANHOLE	7' X 16' REINFORCED CONCRETE MANHOLE WITH TRAFFIC RATED FRAME AND COVER, PROVIDED IN ACCORDANCE WITH HECO STANDARD DRAWING NO. 100922.
3' X 5' COMMUNICATION HANDHOLE	3'-9" X 5'-9" X 4'-2 1/2" REINFORCED CONCRETE HANDHOLE WITH TWO PIECE HINGED NON-SKID SURFACE "TRAFFIC" RATED COVERS, "SIC" INSCRIBED ON COVERS. PROVIDED IN ACCORDANCE WITH SANDWICH ISLES COMMUNICATIONS REQUIREMENTS, TYPE UH3x5.
4' X 6' COMMUNICATION HANDHOLE	4'-4 3/4" X 6'-0" X 4'-6" REINFORCED CONCRETE HANDHOLE WITH NON-SKID SURFACE "TRAFFIC" RATED COVERS, "SIC" INSCRIBED ON COVERS. PROVIDED IN ACCORDANCE WITH SANDWICH ISLES COMMUNICATIONS REQUIREMENTS, TYPE UH-4 X 6. VERIFY DEPTH OF HANDHOLE.
TYPE "A" ST. LT. PULLBOX (CITY & COUNTY)	TYPE "A" PRECAST CONCRETE PULLBOX WITH POLYMER COVER, PROVIDED IN ACCORDANCE WITH C&C OF HONOLULU DEPARTMENT OF TRANSPORTATION SERVICES STANDARD DRAWINGS.
TYPE "SLD-4" ST. LT. PULLBOX (CITY & COUNTY)	2' X 4' TYPE 435TB PRECAST CONCRETE PULLBOX WITH POLYMER CONCRETE COVERS, PROVIDED IN ACCORDANCE WITH HTCO. STANDARD DRAWING NO. 34056, EXCEPT WITH "C&C ST. LT." INSCRIBED ON COVERS. A MINIMUM OF 2 PRE-CAST CONCRETE PULLBOX SECTIONS SHALL BE REQUIRED AT EACH PULLBOX.
6' X 7' HECO TRANSFORMER PAD LOT	6' X 7' TRANSFORMER PAD LOT WITH REINFORCED CONCRETE TRANSFORMER PAD AND GROUND ROD PER HECO STANDARD DRAWING NOS. 30-5001 & 011249.
10' X 14' HECO AUTOMATIC SWITCHING EQUIPMENT PAD LOT	10'-0" X 14'-0" AUTOMATIC TRANSFER SWITCHING EQUIPMENT ENCLOSURE PAD LOT WITH REINFORCED CONCRETE CABLE TROUGH, PER HECO STANDARD DRAWING NO. 30-5040.
TYPE "A" TRAFFIC SIGNAL PULLBOX (CITY & COUNTY)	TYPE "A" PRECAST CONCRETE PULLBOX WITH POLYMER COVER, PROVIDED IN ACCORDANCE WITH C & C OF HONOLULU DEPARTMENT OF TRANSPORTATION SERVICES STANDARD DRAWINGS.
TYPE "B" TRAFFIC SIGNAL PULLBOX (CITY & COUNTY)	TYPE "B" PRECAST CONCRETE PULLBOX WITH POLYMER COVERS, PROVIDED IN ACCORDANCE WITH C & C OF HONOLULU DEPARTMENT OF TRANSPORTATION SERVICES STANDARD DRAWINGS.
TYPE "C" TRAFFIC SIGNAL PULLBOX (CITY & COUNTY)	TYPE "C" PRECAST CONCRETE PULLBOX WITH POLYMER COVERS, PROVIDED IN ACCORDANCE WITH C & C OF HONOLULU DEPARTMENT OF TRANSPORTATION SERVICES STANDARD DRAWINGS.
2' X 4' SECONDARY POWER PULLBOX	2' X 4' PRECAST CONCRETE PULLBOX WITH PRECAST CONCRETE COVER. SIMILAR TO HECO TYPE WITH "ELECTRIC" INSCRIBED ON COVER.
2' X 4' CATV PULLBOX	2'-0" X 4'-0" PRECAST CONCRETE PULLBOX WITH TWO PIECE CHECKERED STEEL PLATE COVERS, SIMILAR TO HTCO 2' X 4' PULLBOX, HTCO DRAWING NO. 34056, EXCEPT WITH "CATV" INSCRIBED ON COVER.
2' X 6' CATV PULLBOX	2'-0" X 6'-0" PRECAST CONCRETE PULLBOX WITH THREE PIECE POLYMER CONCRETE "SLIP-NOT" COVERS SIMILAR TO HTCO 2' X 6' PULLBOX, HTCO DRAWING NO. 34078, EXCEPT WITH "CATV" INSCRIBED ON COVER. 3 PRECAST CONCRETE PULLBOX SECTIONS SHALL BE REQUIRED AT EACH PULLBOX. PROVIDE ADDITIONAL BASE IF MORE THAN 2-4" CONDUITS ENTER THE "SHORT" END.
3' X 5' CATV HANDHOLE	3'-0" X 5'-0" REINFORCED PLASTIC HANDHOLE WITH TWO-PIECE "NON-SLIP" POLYMER "PARKWAY" RATED COVERS, SIDE ENTRY KNOCKOUTS, GROUND ROD, SIMILAR TO HTCO DRAWING NO. 34110 FOR AREAS NOT SUBJECT TO TRAFFIC, EXCEPT WITH "CATV" INSCRIBED ON COVER.

CONDUIT SCHEDULE

ITEM	DESCRIPTION	ITEM	DESCRIPTION
2E	HECO 2" CONDUIT	4V	CATV 4" CONDUIT
2-2E	HECO 2-2" CONDUITS	2-4V	CATV 2-4" CONDUITS
3-2E	HECO 3-2" CONDUITS	2VS	CATV 2" SECONDARY POWER CONDUIT
6-2E	HECO 6-2" CONDUITS		
3E	HECO 3" CONDUIT	2S	TRAFFIC SIGNAL 2" CONDUIT
2-4E	HECO 2-4" CONDUITS	2-2S	TRAFFIC SIGNAL 2-2" CONDUITS
4-4E	HECO 4-4" CONDUITS	4-2S	TRAFFIC SIGNAL 4-2" CONDUITS
2-5E	HECO 2-5" CONDUITS	5-2S	TRAFFIC SIGNAL 5-2" CONDUITS
4-5E	HECO 4-5" CONDUITS	6-2S	TRAFFIC SIGNAL 6-2" CONDUITS
6-5E	HECO 6-5" CONDUITS	2-3S	TRAFFIC SIGNAL 2-3" CONDUITS
8-5E	HECO 8-5" CONDUITS		
4C	SANDWICH ISLES COMM UD(1x1-4")		
2-4C	SANDWICH ISLES COMM UD(1x2-4")	2P	SECONDARY ELEC. 2" CONDUIT
3-4C	SANDWICH ISLES COMM UD(3x1-4")	2-2P	SECONDARY ELEC. 2-2" CONDUITS
4-4C	SANDWICH ISLES COMM UD(2x2-4")	3P	SECONDARY ELEC. 3" CONDUIT
1/4	STREET LIGHT 1 1/4" CONDUIT WITH WIRING		
1/2	STREET LIGHT 1 1/2" CONDUIT WITH WIRING		
2L	STREET LIGHT 2" CONDUIT WITH WIRING		
3L	STREET LIGHT 3" CONDUIT WITH WIRING		
2-2L	STREET LIGHT 2-2" CONDUITS WITH WIRING		
3-2L	STREET LIGHT 3-2" CONDUITS WITH WIRING		
4-2L	STREET LIGHT 4-2" CONDUITS WITH WIRING		
5-2L	STREET LIGHT 5-2" CONDUITS WITH WIRING		

NOTE: DASHED SYMBOL INDICATES EXST

DRAWING REVIEW

Reviewed for HECO's Facilities Only

Date 5/31/11 By

Customer Installations Department
Hawaiian Electric Company, Inc.

HECO's review of these drawings shall in no way relieve the Customer, its Consultant, its Contractor or anyone acting on the Customer's behalf from the responsibility for engineering, design, materials and any other liability associated with this project.

APPROVED BY:

HAWAIIAN ELECTRIC COMPANY, INC. DATE

GARY I. FUNASAKI
LICENSED PROFESSIONAL ENGINEER
No. 4195-E
HAWAII, U.S.A.

17 MAR 2011

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. LICENSE EXPIRATION DATE: 04/30/12

REVISION DATE	DESCRIPTION	MADE BY	APPROVED

cp&e **Community Planning and Engineering, Inc.**
Engineering Design | Construction Management | Infrastructure Planning
1100 Alakea Street, Sixth Floor Honolulu, Hawaii

EAST KAPOLEI II DEVELOPMENT
ROAD "E"
HONOULIULI, EWA, OAHU, HAWAII
(DPP SUBD. FILE NO. 2010/SUB-115)
OWNER: DEPARTMENT OF LAND AND NATURAL RESOURCES
DEVELOPER: DEPARTMENT OF HAWAIIAN HOME LANDS
TAX MAP KEY: 9-1-17: Portion 110

EQUIPMENT AND CONDUIT SCHEDULES

DRAWN BY: | ENGINEER: GF | CHECKED BY: GF

APPROVED:

5/3/11 CHIEF, TRAFFIC SIGNALS AND TECHNOLOGY, D.T.S. DATE

12/11 CHIEF, TRAFFIC REVIEW BRANCH, D.P.P. DATE

6-14-11 SANDWICH ISLES COMMUNICATIONS, INC. DATE

5/12/2011 CHIEF, MECHANICAL/ELECTRICAL DIVISION, D.D.C. DATE

LAST SAVE: 03/17/11 @ 08:54:18 BY: RR PLOT SC: 1"0'=1'
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DWG. NO. E-5 SHEET 37 OF 61 SHEETS

FILE	POCKET	FOLDER	NO.