The information found in this document are general guidelines that may be used to aid in the preparation of your service request proposal. Please be advised that depending on the specific needs and actual conditions of your project, Hawaiian Electric may require your design to comply with different specifications including specifications that include more stringent requirements than those included in these design specification guidelines. For further guidance and clarification on the actual specifications that will apply to your particular project, please refer to instructions issued by Hawaiian Electric’s Planner or Engineer who is assigned to your particular (Project/Review Request/…). Additionally, please be advised that Hawaiian Electric reserves the right to require additional modifications to any approved design if it is determined during actual construction that additional modifications must be made to address certain field conditions that were not detected or Hawaiian Electric was unaware of during the design review process.
PURPOSE:

INSTALLATION DETAILS OF PRECAST CONCRETE 2x4 HANDHOLES. INTENDED FOR NEW INSTALLATIONS.

SLOPE DUCTS TO REQUIRED DEPTHS

Labeled HECO, MECO OR HELCO
SEE NOTE 10

FOR BEDDING UNDER HANDHOLE
SEE NOTES 1 & 2

2x4 PRECAST HAN DHOLE
TYPICAL ASSEMBLY FOR 750V & BELOW

2' x 4' PRECAST CONCRETE
HANDHOLE

30-2005

ENGINEERING STANDARD
HAWAIIAN ELECTRIC CO. INC.

SUPERSEDES
2x4 PRECAST HANDBOILE
TYPICAL ASSEMBLY FOR 751V TO 15,000V

FOR BEDDING UNDER HANDBOILE
SEE NOTES 1 & 2

SLOPE DUCTS TO
REQUIRED DEPTHS

Labeled HECO, MECO OR HELCO
SEE NOTE 10

2' x 4' PRECAST CONCRETE
HANDLE
NOTES:

1. Handhole shall be installed on top a 5" thick, 3B fine rock bed. If HECO/MECO/HELCO primary ducts are to by-pass under the handhole, the primary ducts shall be encased such that a "floor" is formed under the handhole.

2. Bedding material beneath the 3B fine rock bed as well as the backfill material shall meet HECO Specification CS 7001 latest edition.

3. Ducts entering/exitting the handhole shall have a 3' concrete encasement and shall extend for at least 3'-0" along the duct. Refer to project drawings if more encasement along the ductline is required.

4. For handholes that contain voltages of 751v to 15,000v, a 5/8" diameter, 8'-0" long copper clad ground rod shall be installed. The ground rod shall be installed in a corner 6' from each wall and 6' above the floor grade.

5. This handhole is designed for use in areas NOT subjected to vehicular traffic.

6. All joints shall be sealed with a joint sealer.

7. All sections of the handhole MUST BE pre-casted by a HECO/MECO/HELCO approved manufacturer. Refer to the HECO Specification CS 9401 latest edition for approval process.

8. All excavation and installations must be approved and inspected by a HECO/MECO/HELCO inspector prior to backfilling or concrete encasing facilities.

9. Refer to the following Material Standard Drawings for each section of the 2x4 pre-casted Handhole.

   11310  12' Body
   11311  6' Extension
   11312  Cover
   11313  Base Riser with Knockouts

10. Cover shall be stamped with appropriate company name HECO, MECO or HELCO.

11. Maximum depth of handhole is 30" ((1)-1'-0" Base riser, (1)-0'-0" Body & (1)-6" extension).

12. If concrete and polymer sections are used together, they must interlock and fit together properly.