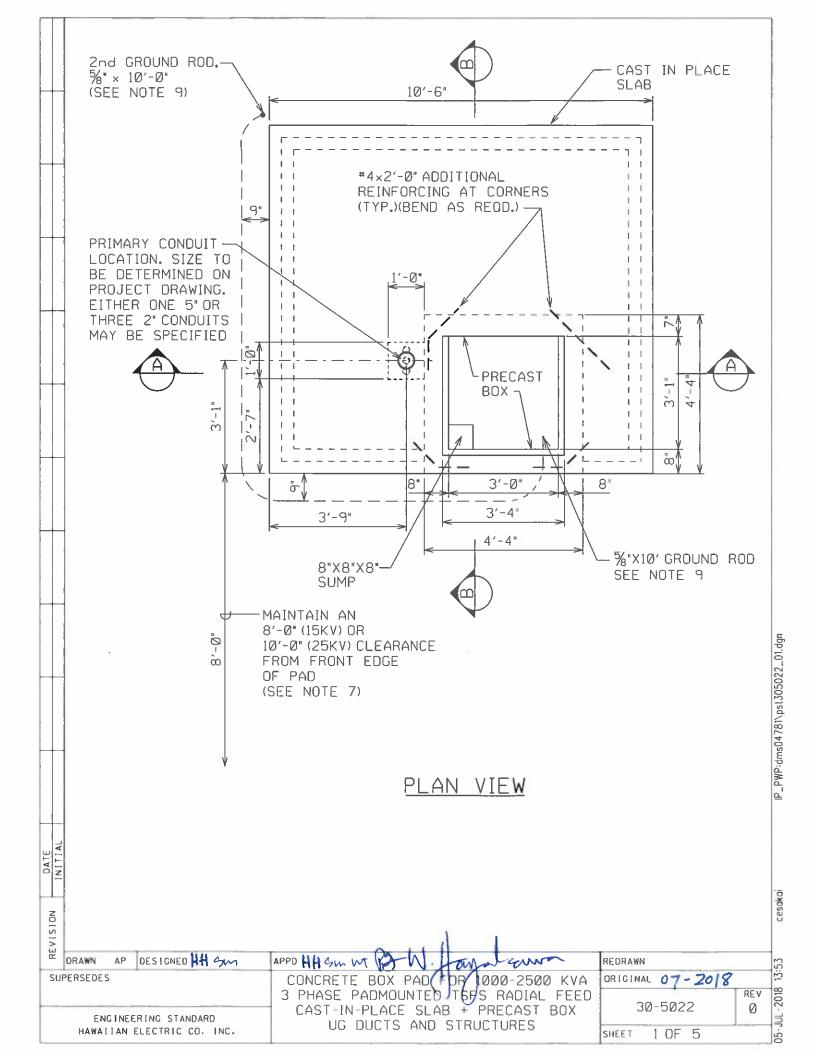
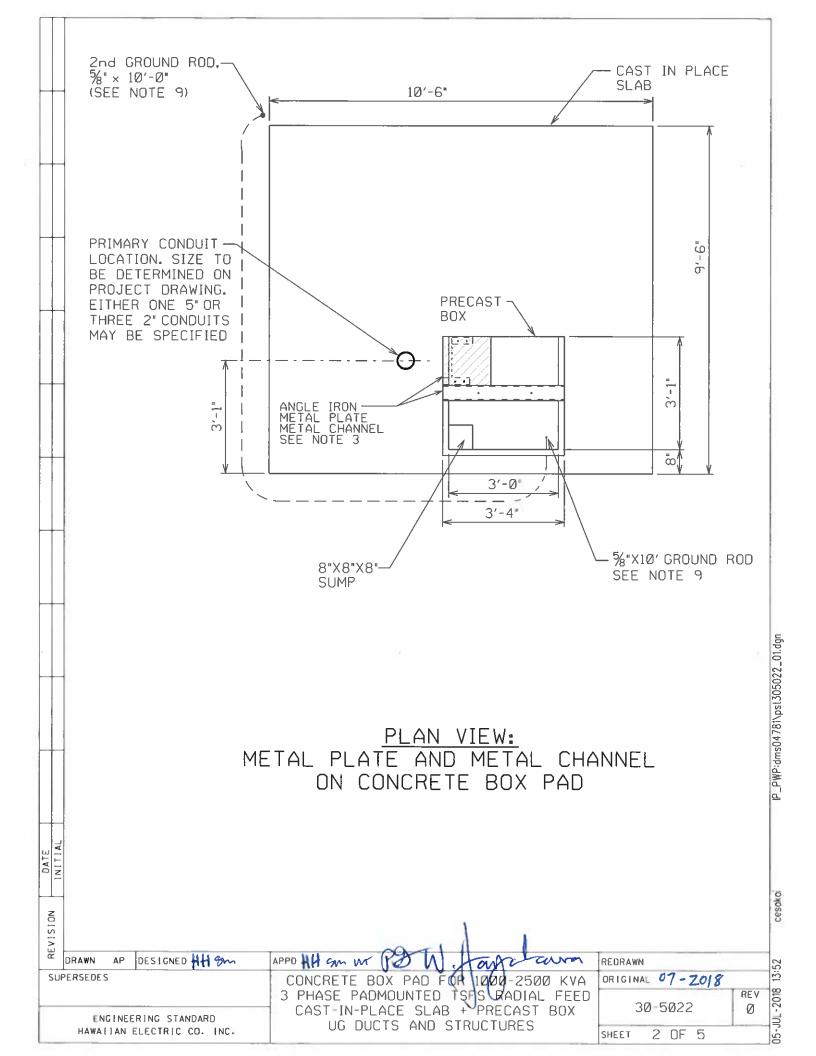
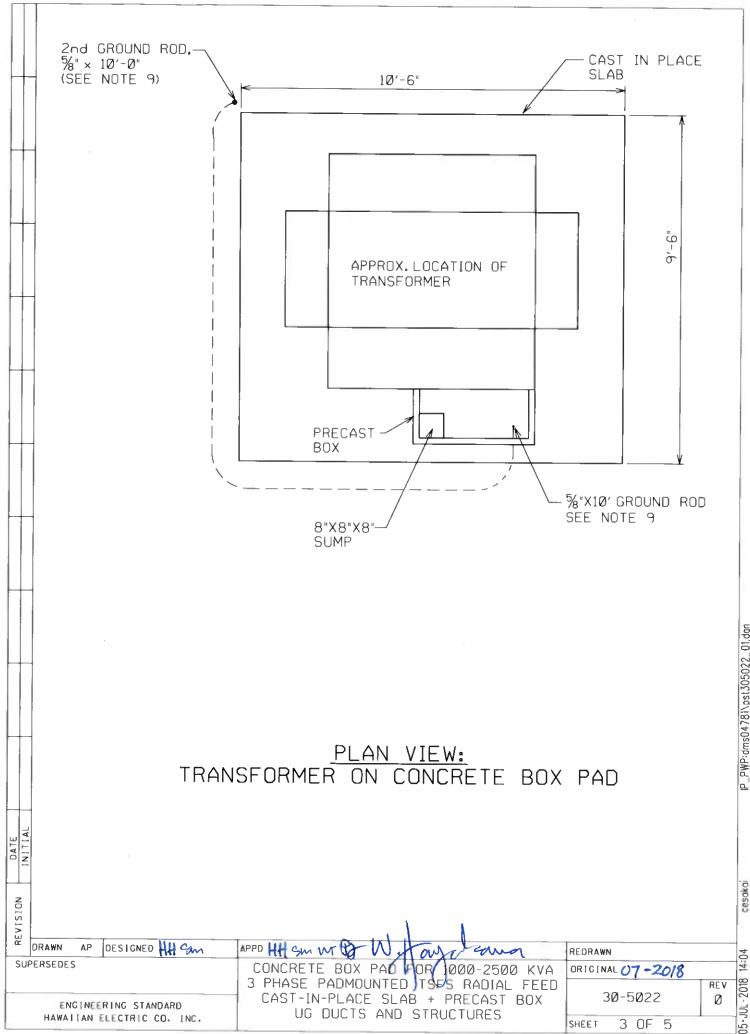


The information found in this document are general guidelines that may be used to aid in the preparation of your service request proposal. Please be advised that depending on the specific needs and actual conditions of your project, Hawaiian Electric may require your design to comply with different specifications 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.

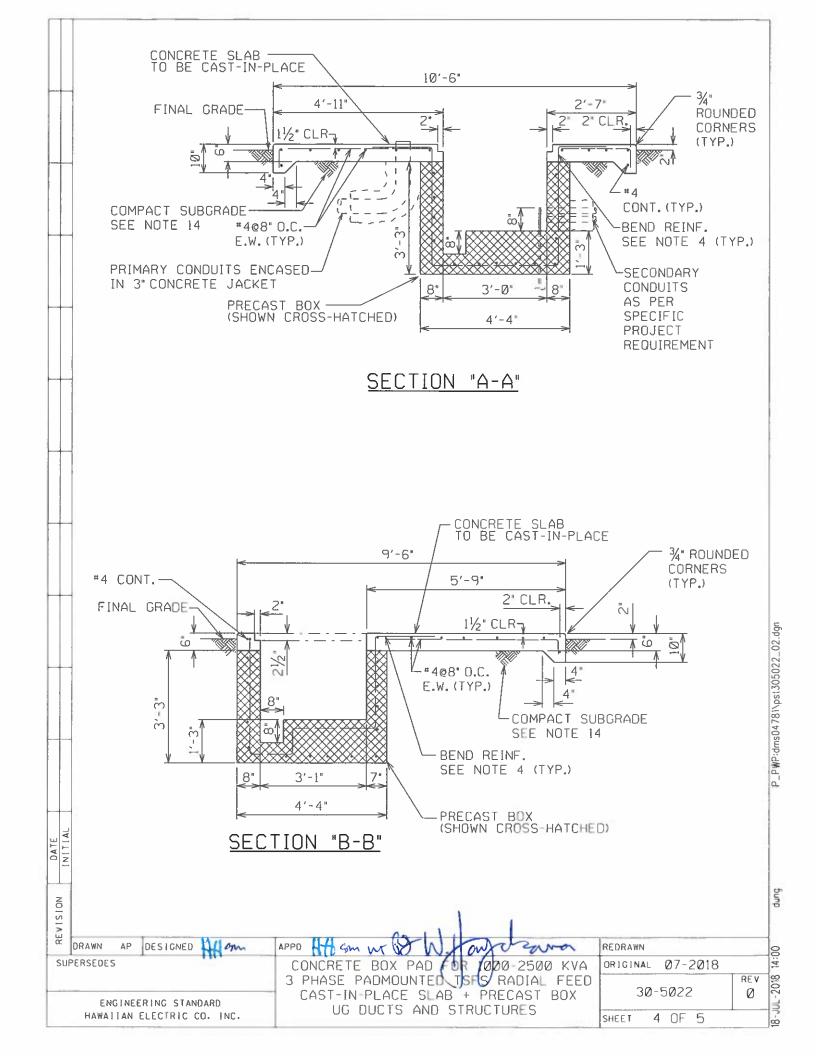






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cesakai



UF PAD AND 2'-0" FROM BACK OF PAD, AND 8'-0" IN FRONT OF PAD. EXTEND CONCRETE PAD AN ADDITIONAL 8'-0" IN FRONT IF LOCATED IN PLANTING AREA. 14. COMPACT SUBGRADE TO 95% COMPACTION IN ACCORDANCE WITH ASTM D1557. DRAWN AP DESIGNED APPD HIGH MARK OF PAD, AND 8'-0" IN FRONT OF PAD. SUPERSEDES COMPACTE PAD AN ADDITIONAL 8'-0" IN FRONT OF PAD. EXTEND CONCRETE BOX PAD TOR 1000-2500 KVA ORIGINAL 07-2018				
I. THIS DESIGN IS FOR PRECAST BOX + CAST-IN-PLACE SLAB. PRECAST BOX AND HANDHOLE COVER (PER HECO UG STD. 39-5023 AND HECO DRAWING 101026, REV. I TYPE SW REMOVABLE CONCRETE COVER WILL BE PROVIDED BY HECO APPROVED PRECASTER. THE FOLLOWING METAL PARTS ARE TO BE PROVIDED BY HECO APPROVED PRECASTER (REFER TO HECO UG STD. 39-5021; a. METAL PLATE - 1'-3' 9' 1'-3' a. METAL PLATE - 1'-3' 2' 2' 1/2 × 1/4 × 7' LONG AND 2'-1/2 × 2'-1/2 × 1/4 × 9' LONG c. 5' WIDE CHANNEL FARRICATED FROM 2 ANGLE IRONS WELDED TOGETHER "EACH ANGLE IRON 2'-1/2 × 2'-1/2 × 1/4 × 3' -3'4' LONG) 4. CONCRETE SLAB TO BE CAST-IN-PLACE, TO CONNECT THE PRECAST BOX TO THE CAST-IN-PLACE SLAB, BEND PRECAST BOX VERTICAL WALL REINFORCEMENT DOWN INTO SLAB. 5. ALL ANCHORS SHALL BE GALVANIZED OR STAINLESS STEEL HILTI WEDGE ANCHORS (CONTRACTOR TO SUPPLY ANCHORS) 6. ALL BOLTS SHALL BE 3'8' DIAMETER PER ASTM A307 AND HOT DIPPED GALVANIZED. (CONTRACTOR TO SUPPLY BOLTS) 7. REFER TO STD. 39-5000 FOR LOCATIONS AND CLEARANCES. 8. REFER TO STD 22-2005 FOR 3 PHASE PAD MOUNTED TRANSFORMER REQUIREMENTS. 9. 5/8' DIAMETER X: 10'-9' GROUND ROD SCHC SODE 19457 FURNISHED BY HECO AND INSTALLED BY CLESTOWER IF GROUND RODES TANCE THIS 400 INSTALL ADDITIONAL 5/9' DIAMETER X: 10'-9' GROUND RODES TANCE SUBMER THAN 25 OHMS 100NHETERS. FOR SECOND GROUND ROUNTED TRANSFORMER REQUIREMENTS. 9. 5/8' DIAMETER X: 10'-9' GROUND ROLS FOR STAINLERS THAN 25 OHMS 100NHETERS. FOR SECOND GROUND ROUNTED TRANSFORMER REQUIREMENTS. 9. 5/8' DIAMETER X: 10'-9' GROUND ROLS THE DITYEN GROUND RODS. A MINIMUM OF C'''''''''''''''''''''''''''''''''''				
 PRECAST BOX AND HANDHOLE COVER (PER HECD UG STD. 38-5923 AND HECD DRAWING 101828, REV. I TYPE SW REMOVABLE CONCRETE COVERN WILL BE PROVIDED BY HECD APPROVED PRECASTER. THE FOLLOWING METAL PARTS ARE TO BE PROVIDED BY HECD APPROVED PRECASTER (REFER TO HECD UG STD 38-5924); a. METAL PLATE - 1'-3'' L'-3'' LONG AND 2-1/2 × 2-1/2 × 1/4 × 9' LONG c. S'MIDE CHAINEL FARITALETED FROM 2 ANOLE IRONS WELPED TOGETHER LEACH ANGLE IRONS 2-1/2 × 2-1/2 × 1/4 × 3'-J/4' LONG) CONCRETE SLAB TO BE CAST-IN-PLACE JCAS TO CONNECT THE PRECAST BOX TO THE CAST-IN-PLACE SLAB, BEND PRECAST BOX VERTICAL WALL REINFORCEMENT DOWN INTO SLAB. ALL ANCHORS SHALL BE GALVANIZED OR STAINLESS STEEL HILTI WEDGE ANCHORS (OR APPROVED EDUIYALENT). THE ANCHORS ARE INTENDED TO ANCHOR THE L'-2/2 × 2-1/2 × 1/4 × 7'LONG ANGLE IRON TO THE CONCRETE. (CONTRACTOR TO SUPPLY BOLTS) ALL ANCHORS SHALL BE GALVANIZED OR STAINLESS STEEL HILTI WEDGE ANCHORS (OR APPROVED BUDIYA INCHORS) ALL ANCHORS SHALL DE COLVANIZED OR STAINLESS TO A ANCHOR THE L'-2/2 × 2-1/2 × 1/4 × 7'LONG ANGLE IRON TO THE CONCRETE. (CONTRACTOR TO SUPPLY BUDIS) REFER TO STD. 30-50000 FOR LOCATIONS AND CLEARANCES. REFER TO STD. 22-2005 FOR 3 PHASE PAD MOUNTED TRANSFORMER REQUIREMENTS. S/P'D TAMETER X 18-'9' GROUND ROD KID MORE THAN 25 DHMS INSTALL DDITIONAL 5/3' DIAMETER X 18'-9' GROUND ROD KID MORE THAN 25 DHMS INSTALL DDITIONAL 5/3' DIAMETER X 19'-9' GROUND ROD KID MORE THAN 25 DHMS INSTALL DDITIONAL 5/3' DIAMETER X 19'-9' GROUND ROD KID MORE THAN 25 DHMS INSTALL DDITIONAL 5/3' DIAMETER X 19'-9' GROUND ROD KID MORE THAN 25 DHMS INSTALL DDITIONAL 5/3' DIAMETER X 19'-9' GROUND ROD KID MORE THAN 25 DHMS INSTALL DDITIONAL 5/3' GROUND ROD KID MORE THAN 25 DHMS INSTALL DDITIONAL 5/3' GROUND ROD KID WEN SOLL RESISTIVITY IS GEATER		NOT	S	
101023, REV. 1 TYPE SW REMOVABLE CONCRETE COVER) WILL BE PROVIDED BY HECO APPROVED PRECASTER. 3. THE FOLLOWING METAL PARTS ARE TO BE PROVIDED BY HECO APPROVED PRECASTER (REFER TO HECO UG STD 30-5024): a. METAL PLATE - 1-2: 1/2: 1/4: Y'LONG AND 2-1/2: 2:1/2: 1/4: Y'LONG b. ANGLE IRONS - 2:1/2: 2:1/2: 1/4: X'-LONG AND 2:1/2: 2:1/2: 1/4: Y'LONG b. ANGLE IRONS -2:1/2: 2:1/2: 1/4: X'-LONG b. ANGLE IRONS -2:1/2: 2:1/2: 1/4: X: 3'-3/4'LONG) 4. CONCRETE SLAB TO BE CAST-IN-PLACE TO CONNECT THE PRECAST BOX TO THE CAST-IN-PLACE SLAB, BEND PRECAST BOX VERTICAL WALL REINFORCEMENT DOWN INTO SLAB. 5. ALL ANCHORS SHALL BE CALVANIZED OR STAINLESS STEEL HILTI WEDGE ANCHORS (OR APPROVED EQUIVALENT). THE ANCHORS ARE INTENDED TO ANCHOR THE LC2-1/2: 2: 1/4: X''LONG ANGLE IRON TO THE CONCRETE. (CONTRACTOR TO SUPPLY ANCHORS) 6. ALL BOLTS SHALL BE 3/8'DIAMETER PER ASTM A307 AND HOT DIPPED CALVANIZED. (CONTRACTOR TO SUPPLY ANCHORS) 7. REFER TO STD 22-2005 FOR 3 PHASE PAD MOUNTED TRANSFORMER REQUIREMENTS. 9. 5/8'DIAMETER X 18'-9' GROUND RDD (STOCK CODE 193457) FURNISHED BY HOEO AND INSTALLED BY USITOMER. IF GROUND RODS. A MINIMUM OF 6'-0'SHALL BE MAINTAINED BETWEEN THE DRIVEN GROUND RODS. A MINIMUM OF 6'-0'SHALL BE MAINTAINED BETWEEN THE DRIVEN GROUND RODS. A MINIMUM OF 6'-0'SHALL BE MAINTAINED BETWEEN THE DRIVEN GROUND RODS. A MINIMUM OF 6'-0'SHALL BE IN ACCORDANCE WITH ASTM A305, SAPLY CURING CONCRETE COMPRESSIVE STRENGTH RESISTINGTY IS GEATER THAN 67 OHM-METERS, FOR SECOND GROUND ROD, IN ESTIMUTING WOR SCILL RESISTINGTY IS GEATER THAN 67 OHM-METERS, FOR SECOND GROUND ROD, IN ESTIMUT ROMON RODS. A MINIMU		1.	THIS DESIGN IS FOR PRECAST BOX + CAST-IN-PLACE SLAB.	
GREFER T0 HECO UG STD 30-50241: S. METAL PLATE - 1'-2' × 1'-2' × 1/4 × 7'LONG AND 2-1/2 × 2-1/2 × 1/4 × 9'LONG S. METAL PRATE - 1'-2' × 2-1/2 × 1/4 × 3'-3/4'LONG) 4. CONCRETE SLAB, TO BE CAST-IN-PLACE, TO CONNECT THE PRECAST BOX TO THE CAST-IN-PLACE SLAB, BEND PRECAST BOX VERTICAL WALL REINFORCEMENT DOWN INTO SLAB. 5. ALL ANCHORS SHALL BE GALVANIZED OR STAINLESS STEEL HILTI WEDGE ANCHORS (OR APPROVED EQUIVALENT). THE ANCHORS ARE INTENDED TO ANCHOR THE L2'1/2 × 2'-1/2 × 1/4 × 7'LONG ANGLE IRON TO THE CONCRETE. (CONTRACTOR TO SUPPLY MACHORS) 6. ALL BOLTS SHALL BE 3/8'DIAMETER PER ASTM A307 AND HOT DIPPED CALVANIZED. (CONTRACTOR TO SUPPLY MACHORS) 7. REFER TO STD 22-2005 FOR 3 PHASE PAD MOUNTED TRANSFORMER REQUIREMENTS. 9. Setting of COUND ROD ISTOCK CODE 1934571 FURINSHED BY HECO AND INSTALLED BY CUSTOMER, IF GROUND RESISTANCE IS MORE THAN 25 OHMS INSTALL ADDITIONAL 5/*DIAMETER X 10'-0''ROUND ROD AND CONNECT 4/0 BARE COPPER GROUND ROD ISTOCK CODE 1934571 FURINSHED BY HECO AND INSTALLED BY CUSTOMER, IF GROUND ROD, A SECOND GROUND ROD WILL PROBABLY BE REDUIRED INHERING BY HECO AND INSTALLED BY CUSTOMER, IF GROUND ROD, A SECOND GROUND ROD WILL PROBABLY BE REDUIRED INHERING BY HECO AND INSTALLED BY CUSTOMER, IF GROUND ROD, A ASECOND GROUND ROD WILL PROBABLY BE REDUIRED INHER GROUND RODS, A MINIMUM OF GO'''S HALL BE IN ACCORDANCE WITH ASTM AGIS, GRADE 60 INNIMUM AND RAFER, FOR SECOND GROUND ROD, TOP OF CONCRETE THAN GROUNT SECIEL SHALL BE IN ACCORDANCE WITH ASTM AGIS, GRADE 60 I. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM AGIS, GRADE 60		2.	101028, REV. 1 TYPE SW REMOVABLE CONCRETE COVER) WILL BE PROVIDED	
THE CAST-IN-PLACE SLAB, BEND PRECAST BOX VERTICAL WALL REINFORCEMENT DOWN INTO SLAB. 5. ALL ANCHORS SHALL BE GALVANIZED DR STAINLESS STEEL HILTI WEDGE ANCHORS (OR APPROVED EQUIVALENT). THE ANCHORS ARE INTENDED TO ANCHOR THE L2-1/2 x 2/1/2 x 1/1/2 M ROLE IRON TO THE CONCRETE. (CONTRACTOR TO SUPPLY ANCHORS) 6. ALL BOLTS SHALL BE 3/8* DIAMETER PER ASTM A307 AND HOT DIPPED GALVANIZED. (CONTRACTOR TO SUPPLY BOLTS) 7. REFER TO STD 30-5000 FOR LOCATIONS AND CLEARANCES. 8. REFER TO STD 22-2005 FOR 3 PHASE PAD MOUNTED TRANSFORMER REQUIREMENTS. 9. 5/8* DIAMETER X 10*0* GROUND ROD (STOCK CODE 193457) FURNISHED BY HECO AND INSTALLED BY CUSTOMER, IF GROUND RESISTANCE IS MORE THAN 25 OHMS INSTALL ADDITIONAL 5/8* DIAMETER X 10*0* GROUND ROD AND CONNECT 4/0 BARE COPER GROUND WIRE BETWEEN GROUND RODS. A MINIMUM OF 6*0* SHALL BE MAINTAINED BETWEEN GROUND RODS. A MINIMUM OF 6*0* SHALL BE MAINTAINED BETWEEN GROUND RODS. A MINIMUM OF 6*0* SHALL BE MAINTAINED BETWEEN THE DRIVEN GROUND RODS. A MINIMUM OF 6*0* SHALL BE MAINTAINED BETWEEN GROUND RODS. A MINIMUM OF 6*0* SHALL BE MAINTAINED BETWEEN GROUND RODS. A MINIMUM OF 6*0* SHALL BE MAINTAINED BETWEEN GROUND RODS. A MINIMUM OF 6*0* SHALL BE MAINTAINED BETWEEN GROUND RODS. 10. CONCRETE: 3000 PSI CONCRETE COMPRESSIVE STRENGTH IN 28 DAYS. APPLY CURING COMPOUND IN ACCORDANCE WITH ASTM C309, DO NOT INSTALL TRANSFORMER UNTIL CONCRETE: 3000 PSI CONCRETE COMPRESSIVE STRENGTH IN 28 DAYS. APPLY CURING COMPOUND IN ACCORDANCE WITH ASTM CASO, APPLY CURING COMPOLIND IN ACCORDANCE WITH ASTM CASO, APPLY CURING COMPOLIND IN ACCORDANCE WITH ASTM CASO, APPLY CURING COMPOLIND IN ACCORDANCE WITH ASTM CASO, APPLY CURRENCES SHALL BE IN ACCORDANCE WITH ASTM AGIS, GRADE 60 12. LOCATE, SECURE AND CAP ALL CONDUITS BEFORE POURING PAD. TOP OF CONCRETE TO BE SMOOTH AND TRUE WOOD FL		3.	<pre>(REFER TO HECO UG STD 30-5024): a. METAL PLATE - 1'-3" × 1'-3" b. ANGLE IRONS - 2-1/2 × 2-1/2 × 1/4 × 7" LONG AND 2-1/2 × 2-1/2 × 1/4 × 9" LONG c. 5" WIDE CHANNEL FABRICATED FROM 2 ANGLE IRONS WELDED TOGETHER</pre>	
Image: Supersects Im	-	4.	THE CAST-IN-PLACE SLAB, BEND PRECAST BOX VERTICAL WALL REINFORCEMENT	
Image: Contractor to supply bolts) 7. REFER TO STD. 30-5000 FOR LOCATIONS AND CLEARANCES. 8. REFER TO STD 22-2005 FOR 3 PHASE PAD MOUNTED TRANSFORMER REQUIREMENTS. 9. 5/8" DIAMETER X 10'-0" GROUND ROD (STOCK CODE 193457) FURNISHED BY HECO AND INSTALLED BY CUSTOMER. IF CROUND RESISTANCE IS MORE THAN 25 OHMS INSTALL ADDITIONAL 5/8" DIAMETER X 10'-0" GROUND ROD. ROD. ADD CONNECT 4/0 BARE COPPER GROUND RIP BETWEEN CROUND RODS. A MINIMUM OF 6'-0" SHALL BE MAINTAINED BETWEEN CROUND RODS. A SECOND GROUND ROD WILL PROBABLY BE REQUIRED WHEN SOIL RESISTIVITY IS GEATER THAN 67 OHM-METERS. FOR SECOND GROUND ROD, TOP OF ROD SHOULD BE 12" BELOW FINAL GROE. 10. CONCRETE: 3000 PSI CONCRETE COMPRESSIVE STRENGTH IN 28 DAYS. APPLY CURING COMPOUND IN ACCORDANCE WITH ASTM C309. DO NOT INSTALL TRANSFORMER UNTIL CONCRETE COMPRESSIVE STRENGTH REACHES 1500 PSI MINIMUM OR AFTER 14 DAYS. 11. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM AGI5. GRADE 60 12. LOCATE. SECURE AND CAP ALL CONDUITS BEFORE POURING PAD. TOP OF CONCRETE TO BE SMOOTH AND TRUE WOOD FLOAT FINISH. FREE OF DEFECTS AS PER APPLICABLE CITY AND COUNTY SPECIFICIATIONS. ROUND ALL EXPOSED EDECES TO 3/4". 13. MAINTAIN RELATIVELY LEVEL MINIMUM CLEARANCE OF 2'-6' FROM SIDES OF PAD AND 2'-0' FROM BACK OF PAD. AND 8'-0' IN FRONT OF PAD. EXTEND CONCRETE PAD AN ADDITIONAL 8'-0' IN FRONT IF LOCATED IN PLANTING AREA. 14. COMPACT SUBGRADE TO 95% COMPACTION IN ACCORDANCE WITH ASTM D1557.		5.	(OR APPROVED EQUIVALENT). THE ANCHORS ARE INTENDED TO ANCHOR THE L2-1/2 \times 2-1/2 \times 1/4 \times 7 LONG ANGLE IRON TO THE CONCRETE.	
		6.		
9. 5/8" DIAMETER X 10'-0" GROUND ROD (STOCK CODE 193457) FURNISHED BY HECO AND INSTALLED BY CUSTOMER, IF GROUND RESISTANCE IS MORE THAN 25 DHMS INSTALL ADDITIONAL 5/8" DIAMETER X 10'-0" GROUND ROD AND CONNECT 4/0 BARE COPPER GROUND WIRE BETWEEN GROUND RODS. A MINIMUM OF 6'-0" SHALL BE MAINTAINED BETWEEN THE DRIVEN GROUND RODS. A SECOND GROUND ROD WILL PROBABLY BE REQUIRED WHEN SOIL RESISTIVITY IS GEATER THAN 67 OHM-METERS. FOR SECOND GROUND ROD, TOP OF ROD SHOULD BE 12" BELOW FINAL GRADE. 10. CONCRETE: 3000 PSI CONCRETE COMPRESSIVE STRENGTH IN 28 DAYS. APPLY CURING COMPOUND IN ACCORDANCE WITH ASTM C309. DO NOT INSTALL TRANSFORMER UNTIL CONCRETE: SOUR STRENGTH REACHES ISO0 PSI MINIMUM OR AFTER 14 DAYS. 11. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 60 12. LOCATE, SECURE AND CAP ALL CONDUITS BEFORE POURING PAD. TOP OF CONCRETE TO BE SMOOTH AND TRUE WOOD FLOAT FINISH. FREE OF DEFECTS AS PER APPLICABLE CITY AND COUNTY SPECIFICIATIONS. ROUND ALL EXPOSED EDGES TO 3/4". 13. MAINTAIN RELATIVELY LEVEL MINIMUM CLEARANCE OF 2'-6" FROM SIDES OF PAD AND 2'-0" FROM BACK OF PAD, AND 8'-0" IN FRONT OF PAD. EXTEND CONCRETE PAD AN ADDITIONAL 8'-0" IN FRONT OF PAD. EXTEND CONCRETE PAD AN ADDITIONAL 8'-0" IN FRONT IF LOCATED IN PLANTING AREA. 14. COMPACT SUBGRADE TO 95% COMPACTION IN ACCORDANCE WITH ASTM DI557. 17 BEIGNED HI GAN APPD HI GAN PAD Y DR A000-2500 KVA PRIGRAM	H	7.	REFER TO STD.30-5000 FOR LOCATIONS AND CLEARANCES.	ľ
HECO AND INSTALLED BY CUSTOMER. IF GROUND RESISTANCE IS MORE THAN 25 OHMS INSTALL ADDITIONAL 5/8" DIAMETER X 10'-0" GROUND ROD AND CONNECT 4/0 BARE COPPER GROUND WIRE BETWEEN GROUND RODS. A MINIMUM OF 6'-0" SHALL BE MAINTAINED BETWEEN THE DRIVEN GROUND RODS. A SECOND GROUND ROD WILL PROBABLY BE REQUIRED WHEN SOIL RESISTIVITY IS GEATER THAN 67 OHM-METERS. FOR SECOND GROUND ROD, TOP OF ROD SHOULD BE 12" BELOW FINAL GRADE. 10. CONCRETE: 3000 PSI CONCRETE COMPRESSIVE STRENGTH IN 28 DAYS. APPLY CURING COMPOUND IN ACCORDANCE WITH ASTM C309. DO NOT INSTALL TRANSFORMER UNTIL CONCRETE COMPRESSIVE STRENGTH REACHES 1500 PSI MINIMUM OR AFTER 14 DAYS. 11. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM AGIS, GRADE 60 12. LOCATE, SECURE AND CAP ALL CONDUITS BEFORE POURING PAD. TOP OF CONCRETE TO BE SMOOTH AND TRUE WOOD FLOAT FINISH. FREE OF DEFECTS AS PER APPLICABLE CITY AND COUNTY SPECIFICIATIONS. ROUND ALL EXPOSED EDGES TO 3/4". 13. MAINTAIN RELATIVELY LEVEL MINIMUM CLEARANCE OF 2'-6' FROM SIDES OF PAD AND 2'-0' FROM BACK OF PAD, AND 8'-0' IN FRONT IF LOCATED IN PLANTING AREA. 14. COMPACT SUBGRADE TO 95% COMPACTION IN ACCORDANCE WITH ASTM D1557. BUPERSEDES CONCRETE BOX PADY DR 1000 7-2018 SUPERSEDES CONCRETE BOX PADY DR 1000 7-2018		8.	REFER TO STD 22-2005 FOR 3 PHASE PAD MOUNTED TRANSFORMER REQUIREMENTS.	
UF PAD AND 2'-0" FROM BACK OF PAD, AND 8'-0" IN FRONT OF PAD. EXTEND CONCRETE PAD AN ADDITIONAL 8'-0" IN FRONT IF LOCATED IN PLANTING AREA. 14. COMPACT SUBGRADE TO 95% COMPACTION IN ACCORDANCE WITH ASTM D1557. DRAWN AP DESIGNED HIGH APPD HIGH MORE OF PAD, AND 8'-0" IN FRONT OF PAD. SUPERSEDES COMPACTE PAD AN ADDITIONAL 8'-0" IN FRONT OF PAD. EXTEND CONCRETE BOX PAD FDR 1000-2500 KVA DRIGINAL 07-2018		9.	HECO AND INSTALLED BY CUSTOMER.IF GROUND RESISTANCE IS MORE THAN 25 OHMS INSTALL ADDITIONAL 5/8" DIAMETER X 10'-0" GROUND ROD AND CONNECT 4/0 BARE COPPER GROUND WIRE BETWEEN GROUND RODS. A MINIMUM OF 6'-0" SHALL BE MAINTAINED BETWEEN THE DRIVEN GROUND RODS. A SECOND GROUND ROD WILL PROBABLY BE REQUIRED WHEN SOIL RESISTIVITY IS GEATER THAN 67 OHM-METERS. FOR SECOND GROUND ROD, TOP OF ROD SHOULD BE 12"	
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UF PAD AND 2'-0" FROM BACK OF PAD, AND 8'-0" IN FRONT OF PAD. EXTEND CONCRETE PAD AN ADDITIONAL 8'-0" IN FRONT IF LOCATED IN PLANTING AREA. 14. COMPACT SUBGRADE TO 95% COMPACTION IN ACCORDANCE WITH ASTM D1557. DRAWN AP DESIGNED HIGH APPD HIGH MORE OF PAD, AND 8'-0" IN FRONT OF PAD. SUPERSEDES COMPACTE PAD AN ADDITIONAL 8'-0" IN FRONT OF PAD. EXTEND CONCRETE BOX PAD FDR 1000-2500 KVA DRIGINAL 07-2018		12.	TO BE SMOOTH AND TRUE WOOD FLOAT FINISH. FREE OF DEFECTS AS PER APPLICABLE	P:dms04781
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SUPERSEDES CONCRETE BOX PAD DR 1000-2500 KVA ORIGINAL 07-2018				cesakai
		-		39
ENGINEERING STANDARD CAST-IN-PLACE SLAB + PRECAST BOX 30-5022 0	Su	PERSEDES	CONCRETE BOX PAD PR 1000-2500 KVA ORIGINAL 07-2018 3 PHASE PADMOUNTED THE RADIAL FED TREV	
HAWAIIAN ELECTRIC CO. INC. 00 DOCTS HIND STRUCTURES SHEET 5 OF 5			NEERING STANDARD CAST-IN-PLACE SLAB + PRECAST BOX 30-5022 0	05-JUL-2018