



QTY	MEA DESCRIPTION	PACIFICORP SIF#
6	CONCRETE ANCHOR, 1/2"x6" x 2" W/BOLT & FLAT WASHER. INSERT REQUIRES 3" DIAMETER HOLE	SIF7992510
30	#6AWG SOLID COPPER WIRE	SIF4518007
1.28	CONCRETE	

NOTE: ALL DIMENSIONS & QUANTITIES ARE FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY PRIOR TO MATERIAL ORDER.

NO.	DATE	REVISIONS	WIP	APPROVED

FOUNDATION

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CONC REINFORCING STEEL SCHED.

NO.	SIZE	SHAPE	DIMENSION	UNIT	TOTAL
REQ'D.			A B	LENGTH	WEIGHT
8	5	STRAIGHT	7'-0" --- 7'-0"	58.3	
8	5	STRAIGHT	6'-8" --- 6'-8"	55.5	
6	5	STRAIGHT	4'-6" --- 4'-6"	28.1	
6	5	STRAIGHT	0'-10" --- 0'-10"	5.2	
				TOTAL EST. WEIGHT	81.2

FOR [1] FOOTING

GENERAL NOTES

- DRAWING MAY BE OUT OF DATE IF PRINTED. REFER TO COMPANY WEBSITE TO OBTAIN CURRENT REVISION.
- COMPANY WILL SPECIFY PERMISSIBLE TRANSFORMER FOUNDATION TYPES. PAD WALLS OR FLAT PADS ARE RESTRICTED TO SMALL KVA TRANSFORMERS IN OPEN CONDUIT SYSTEM.
- FLAT PADS MAY BE POURED IN PLACE OR PURCHASED DIRECTLY FROM CONCRETE PRE-CASTER. REFER TO COMPANY WEBSITE FOR A LIST OF PRE-APPROVED SUPPLIERS.
- PRIOR TO EXCAVATION VERIFY THAT PAD LOCATION COMPLIES WITH MINIMUM REQUIREMENTS FOR CLEAR WORKING SPACE AND SEPARATION FROM STRUCTURES.
- PAD LOCATION, FORMS, AND CONDUIT PLACEMENT MUST BE INSPECTED AND APPROVED BY COMPANY PRIOR TO POURING CONCRETE OR PLACING PAD.
- FINISHED GRADE.
- HARD SURFACES (CONCRETE, ASPHALT, etc.) INSTALL FLUSH ABOVE FINISHED GRADE.
- TOP OF PAD SURFACE SHALL BE LEVEL AND FLAT WITH A LIGHT-BROOMED FINISH.
- FLATNESS WILL BE EVALUATED WITH A 10FT STRAIGHTEDGE. MAXIMUM GAP OR DEFLECTION SHALL NOT EXCEED 1/8".
- BEVEL ALL HORIZONTAL CORNERS AND VERTICAL OUTSIDE CORNERS OF CONCRETE 3/4" EXTENDED 6" BELOW FINISHED GRADE.
- CONCRETE BLOCK OUT SHALL BE FREE OF DIRT/DEBRIS AND SHADED WITH A 3" LAYER OF PEA GRAVEL.
- CONCRETE ANCHORS, FIELD TO LOCATE POSITIONS.
- GROUND RODS SHALL NOT BE CUT AND DRIVEN TO FULL DEPTH. TOP OF GROUND ROD SHOULD BE APPROXIMATELY 1" BELOW TOP SURFACE OF PAD.
- INSTALL SUPPLEMENTAL BONDING WIRE (#6AWG SOLID COPPER) UNDERNEATH PAD. ON RIGHT AND LEFT SIDES OF BLOCK OUT AND APPROXIMATELY 10FT FROM EACH END. BONDING WIRE MUST BE BURIED AT LEAST 6" BELOW FINISHED GRADE TO FACILITATE BONDING OF ADJACENT CONDUCTIVE OBJECTS.
- CUT CONDUIT APPROXIMATELY 1" BELOW TOP SURFACE OF PAD AND INSTALL CONDUIT BELL-ENDS.
- INSTALL FLAT PULL LINE OR POLYPROPE, WITH A MINIMUM TENSILE STRENGTH OF 1,000LBS IN ALL CONDUITS. SHALL BE CAPPED AND SEALED TO PREVENT THE ENTRANCE OF DEBRIS. CUSTOMER WILL BE RESPONSIBLE OF WASHING DUCTS CLEAN IF REQUIRED.
- FIELD POURED PADS CUSTOMER TO INSTALL QTY-2 CONCRETE ANCHORS ADJACENT TO BLOCK-OUT WINDOW (SEE DETAIL).

EXCAVATION NOTES

- DO NOT BACKFILL OVER POROUS, WET, FROZEN OR SPONGY SUBGRADE SURFACES. PRIOR TO PLACING AGGREGATE BASE COURSE MATERIALS, THE SUBGRADE SHALL BE COMPACTED.
- THE 24" MINIMUM EXCAVATION DEPTH SHALL BE INCREASED SUCH THAT THE DEPTH TO BOTTOM OF AGGREGATE BASE FILL FROM FINISHED GRADE, IS NOT LESS THAN THE AVERAGE FROST DEPTH.
- AGGREGATE BASE COURSE MATERIAL SHALL BE SOUND, HARD, DURABLE CRUSHED ROCK WELL-GRADED FROM COARSE TO FINE. SPECIFICATIONS SHALL CONFORM TO THE FOLLOWING:

SEVE ANALYSIS (PER ASHTO T 27)	PERCENT PASSING:
2"	100
1 1/2"	95 - 100
3/4"	55 - 75
3/8"	40 - 65
#40	15 - 30
#200	4 - 10
- AGGREGATE BASE COURSE MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED (9) NINE INCHES IN LOOSE MEASURE. EACH LAYER SHALL BE COMPACTED WITH A ROLLER. EACH LAYER OF AGGREGATE BASE COURSE SHALL BE COMPLETED, LEVELED AND UNIFORMLY COMPACTED BEFORE THE SUCCEEDING LAYER IS PLACED. WATER SHALL BE ADDED OR REMOVED, AS NECESSARY, TO OBTAIN THE REQUIRED DENSITY. EACH LIFT SHALL BE CONDITIONED TO +/- 2% OF THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO A DENSITY AT A MINIMUM OF NINETY-FIVE (95%) PERCENT OF THE MAXIMUM DRY DENSITY ACCORDING TO ASTM D 1557.

CONCRETE NOTES

- THE 28 DAY COMPRESSIVE STRENGTH (% OF THE CONCRETE) SHALL BE TESTED AND REPORTED TO THE ENGINEER. AIR CONTENT MUST BE 5%±.1% AND SLUMP MUST BE 4"±1".
- ALL REINFORCING STEEL SHALL BE DEFORMED NEW BILLET STEEL CONFORMING TO ASTM A615 GRADE 60.
- ALL REINFORCING STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE 2004 ACI DETAILING MANUAL.
- MINIMUM REINFORCING COVER SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
 CONCRETE CAST AGAINST EARTH.....3"
 ALL OTHER SURFACES.....2"
- THE WIRE SHALL BE #18 GAUGE MINIMUM.
- CONTRACTOR SHALL VERIFY ANCHOR BOLT LOCATION AND SPACING PRIOR TO INSTALLATION; CONTACT COMPANY FOR ANY DEVIATION FROM DESIGN DRAWING.
- SECURE ANCHOR ROD IN CURED CONCRETE IN ACCORDANCE WITH THE MANUFACTURER INSTRUCTIONS, WITH THE FOLLOWING EXCEPTIONS:
 HOLES SHALL BE DRILLED TO SPECIFIED DEPTH AND DIAMETER USING ROTARY HAMMER DRILL WITH CARBIDE-TIPPED FLUTED OR CRUCIFORM BIT, ONLY.
- DIAMOND-CORING SHALL NOT BE PERMITTED, EXCEPT FOR FIELD LOCATE ANCHOR BOLTS PRIOR TO DRILLING INTO FOUNDATION TO MATCH TRANSFORMER BEING INSTALLED. ALLOW CONCRETE TO CURE FOR 14 DAYS BEFORE PLACING TRANSFORMER ON FOUNDATION. CONTACT COMPANY IF SCHEDULE DOES NOT PERMIT CURING TIME.
- CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C 150, TYPE I, II OR TYPE V. ALL CEMENT SUPPLIED SHALL BE OF THE SAME BRAND AND TYPE AND FROM THE SAME SOURCE. SHALL CONFORM TO ASTM C260. STANDARD SPECIFICATION FOR AIR-ENTRAINING ADMIXTURES FOR CONCRETE. AIR CONTENT SHALL BE DETERMINED IN ACCORDANCE WITH ASTM C231 STANDARD TEST METHOD FOR AIR CONTENT OF FRESHLY MIXED CONCRETE BY THE PRESSURE METHOD. THE ADMIXTURE AND THE CEMENT PROPOSED FOR USE SHALL BE SELECTED WELL IN ADVANCE OF CONCRETE PLACING.
- COARSE AGGREGATE SHALL CONFORM TO ASTM C33, STANDARD SPECIFICATION FOR CONCRETE AGGREGATES, GRADED WITHIN THE FOLLOWING LIMITS:
 SIZE NUMBER 67(3/4" MINUS)
 SIEVE SIZE:

SIEVE SIZE	PERCENT PASSING:
1 INCH (25.0mm)	100
3/4 INCH (19mm)	90 - 100
3/8 INCH (9.5mm)	20 - 55
NO. 4 (4.75mm)	0 - 10
NO. 8 (2.36mm)	0 - 5
- FINE AGGREGATE SHALL CONFORM TO ASTM C33, STANDARD SPECIFICATION FOR CONCRETE AGGREGATES, GRADED WITHIN THE FOLLOWING LIMITS:
 SIEVE SIZE:

SIEVE SIZE	PERCENT PASSING:
3/8 INCH (9.5mm)	100
1/8 INCH (2.50mm)	95-100
NO. 4 (4.75mm)	80-100
NO. 8 (2.36mm)	50-85
NO. 16 (1.18mm)	25-60
NO. 30 (600µm)	5-30
NO. 50 (300µm)	0-10
NO. 100 (500µm)	

DESIGN NOTES

- EQUIPMENT:
 WT = 5,856 LBS
 COG = 3'-5"
- ALLOWABLE SOIL STRENGTH PARAMETERS:
 VERTICAL BEARING = 1,500 psf (ASSUMED)