

THREE-PHASE UNDERGROUND SERVICE FROM PAD-MOUNTED TRANSFORMER, 600A



CUSTOMER RESPONSIBILITIES

1. Provide and install an approved secondary junction box. The box size to be determined by Design Services. The junction box must include a polymer concrete cover with recessed hex head bolts. Align the junction box so that the ducts terminate at the bottom edges of the ends (the faces having the shorter dimension). The top of the box shall be flush with established final grade. See item #6 for approved manufacturers.
2. Provide and install a 4 inch duct from the bottom edge of the junction box to the Company transformer. Extend the duct into the secondary compartment of the transformer pad as depicted in SR-233, Note 2. For access to pad-mounted equipment refer to Section 100.
3. Provide and install service cable (maximum of three conductors per phase) from the service entrance to the junction box. Cut cables so that they extend to the opposite end of the junction box to provide length required for by Service Provider assembly of connections. Conductors shall not be smaller than 1/0 AWG nor larger than 600kcmil. Secure the lid to the box with hex head bolts.
4. Identify at the junction box, the neutral conductor(s) in accordance with National Electrical Code requirements.
5. Identify all conductors with phase tape to insure proper connection. Each neutral conductor from a service lateral is to be identified with an aluminum embossed permanent address tag at the box, 12 inches above the conduits.

MATERIAL & APPROVED MANUFACTURERS

FIGURE 1 - 17" x 30" Junction Box (20k Rated)



- Armorcast Products Co., Cat. No. A6001640TAX18
- Channell, Cat. No. BULKU1730180062002
- New Basis, Cat. No. FCA173018H-00042
-  New Basis, Cat. No. FCA173018T-00006
- Oldcastle, Cat. No. 17301471
- Quazite, Cat. No. A12173018A017



FIGURE 2 - 30" x 48" Junction Box (20k Rated)

- Channell, Cat. No. BULKU3048180082002
- New Basis, Cat. No. FCA304818T-00042
-  New Basis, Cat. No. FCA304818T-01002

SERVICE PROVIDER RESPONSIBILITIES

6. Specify location for junction box. Location of the junction box should be in a non-traffic area. If located in a traffic area, protective posts must be installed per SR-230.
7. Provide and install cable in the duct from transformer to junction box.
8. Provide and install connectors at junction box. The load terminals of these connectors shall be the point of delivery for this installation.
9. Maintain the junction box after the service is connected to Company distribution system.



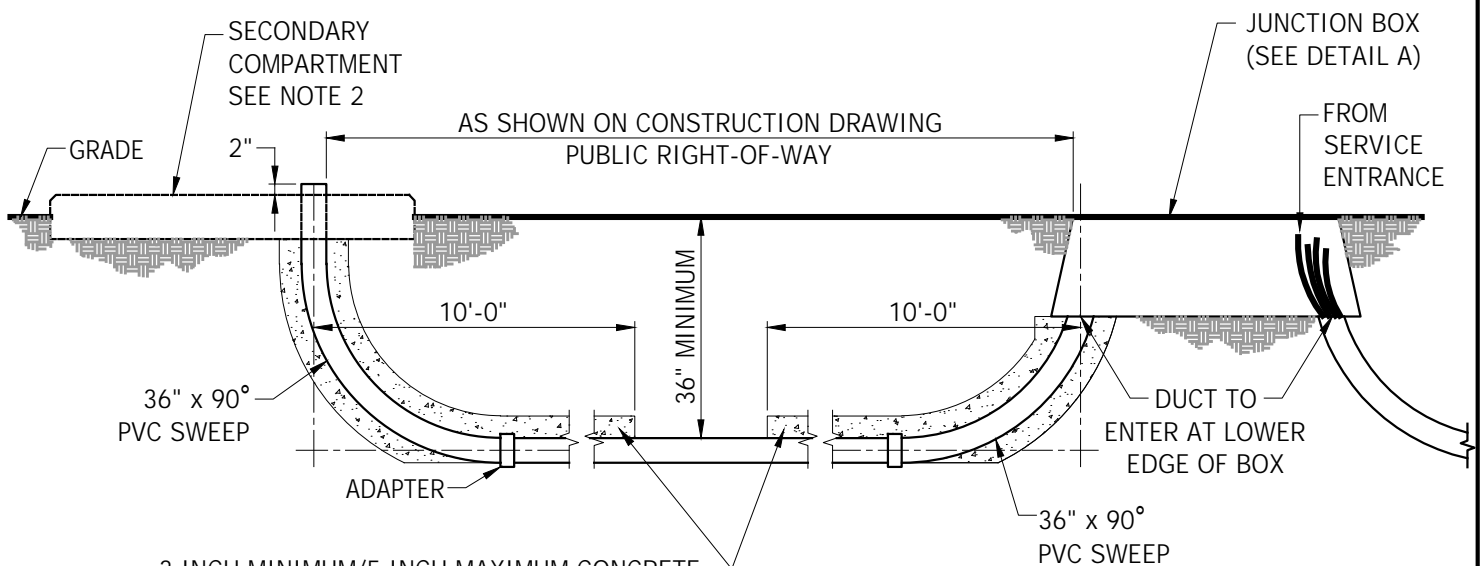
		INITIATED BY	ES	REVISION NO.	8	SR-309 Pg. 1 of 3
		ESR COMM.	4-85	ESR COMM.	11-22	
			EFFECTIVE DATE	11-22		

USE: THREE PHASE,
4-WIRE SERVICE
208Y/120V, OR
480Y/277V, 600A

THREE-PHASE UNDERGROUND SERVICE FROM PAD MOUNTED TRANSFORMER, 600A



APPLICABLE FOR CROSSING PUBLIC RIGHT-OF-WAY



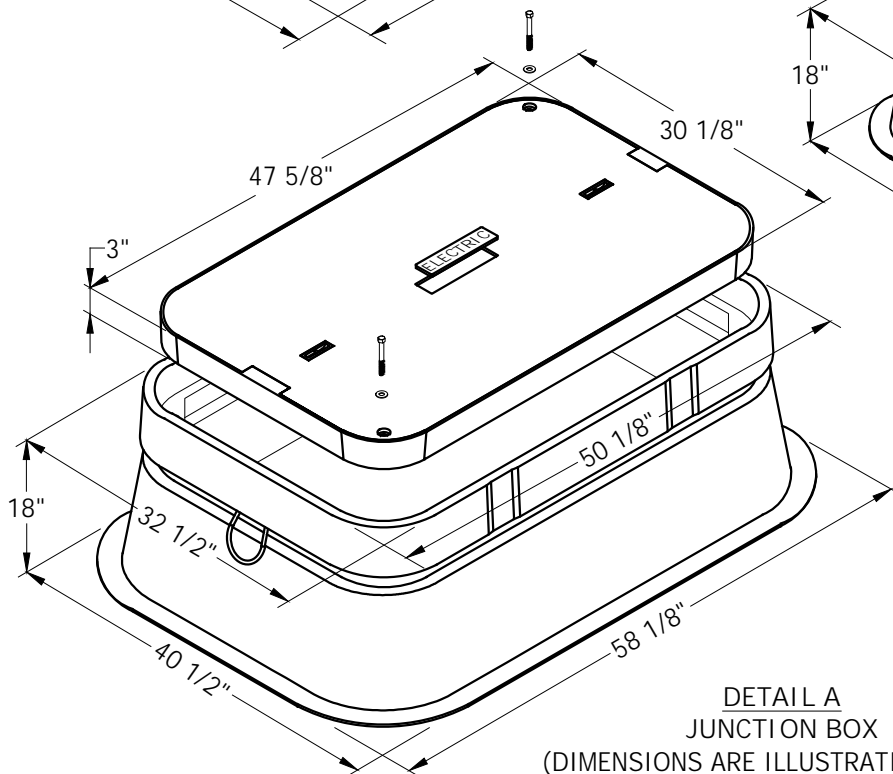
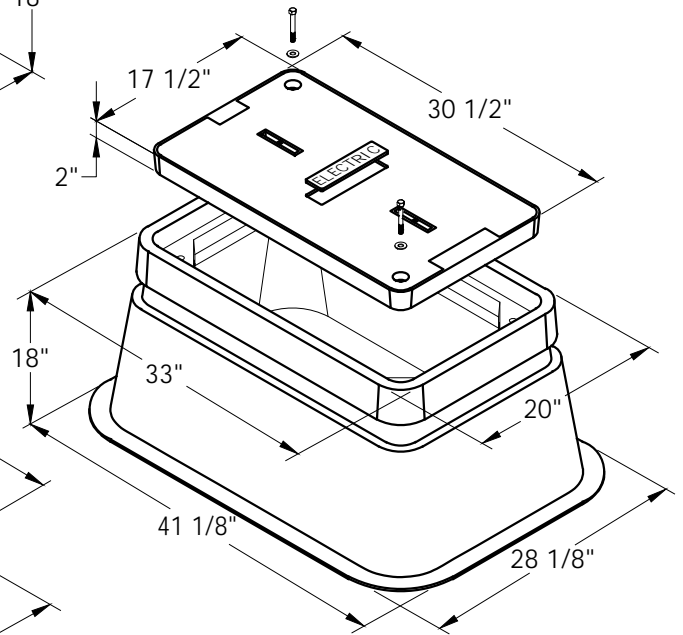
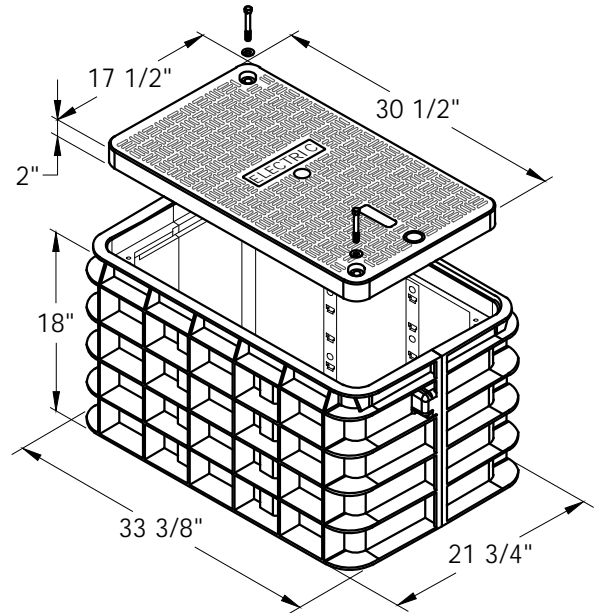
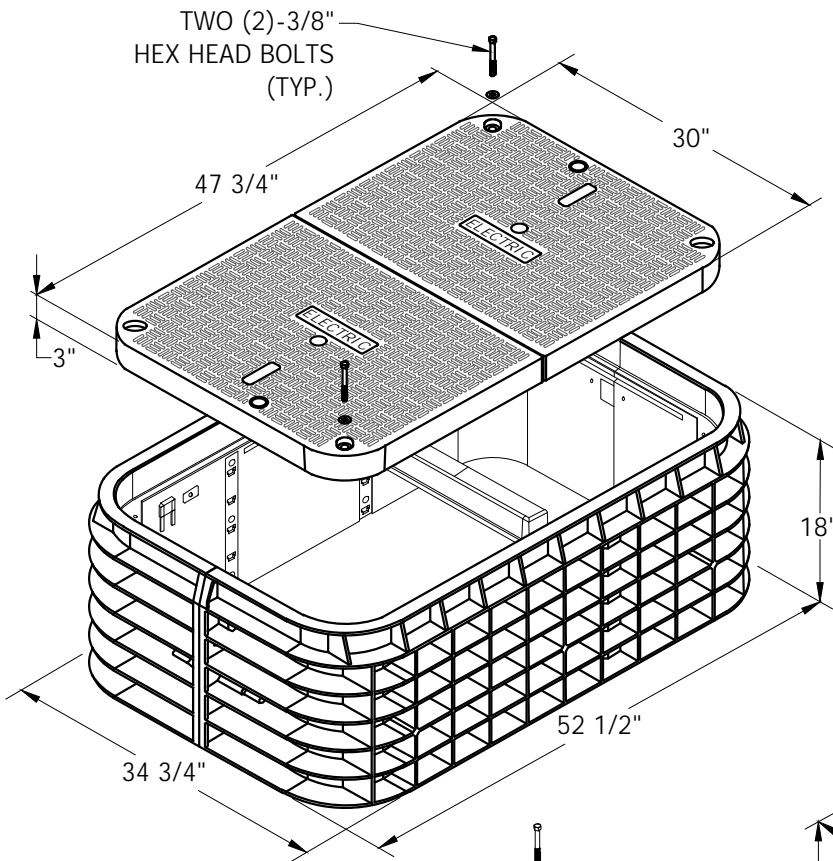
3 INCH MINIMUM/5 INCH MAXIMUM CONCRETE ENCASEMENT, FOR ALL DUCT SIZES (SEE SR-205). CONCRETE ENCASEMENT IS REQUIRED IF A CONDUIT RUN IS MORE THAN 150 FEET IN LENGTH, OR ANY LENGTH WITH A COMBINATION OF 270° (OR MORE) OF BENDS, NOT TO EXCEED 360°.

THESE REQUIREMENTS APPLY TO COMMERCIAL AND INDUSTRIAL CUSTOMERS WHO WILL BE SERVED UNDERGROUND FROM AN UNDERGROUND SYSTEM WITH THREE-PHASE SERVICE ENTRANCE EQUIPMENT RATED 600A OR LESS AND 480V OR LESS LOCATED SUCH THAT THE CUSTOMER'S SERVICE CONDUCTORS MUST CROSS PUBLIC RIGHT-OF-WAY.



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4-WIRE SERVICE
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DETAIL A
JUNCTION BOX
(DIMENSIONS ARE ILLUSTRATIVE OF ONE
APPROVED MANUFACTURER AND CAN VARY SLIGHTLY)