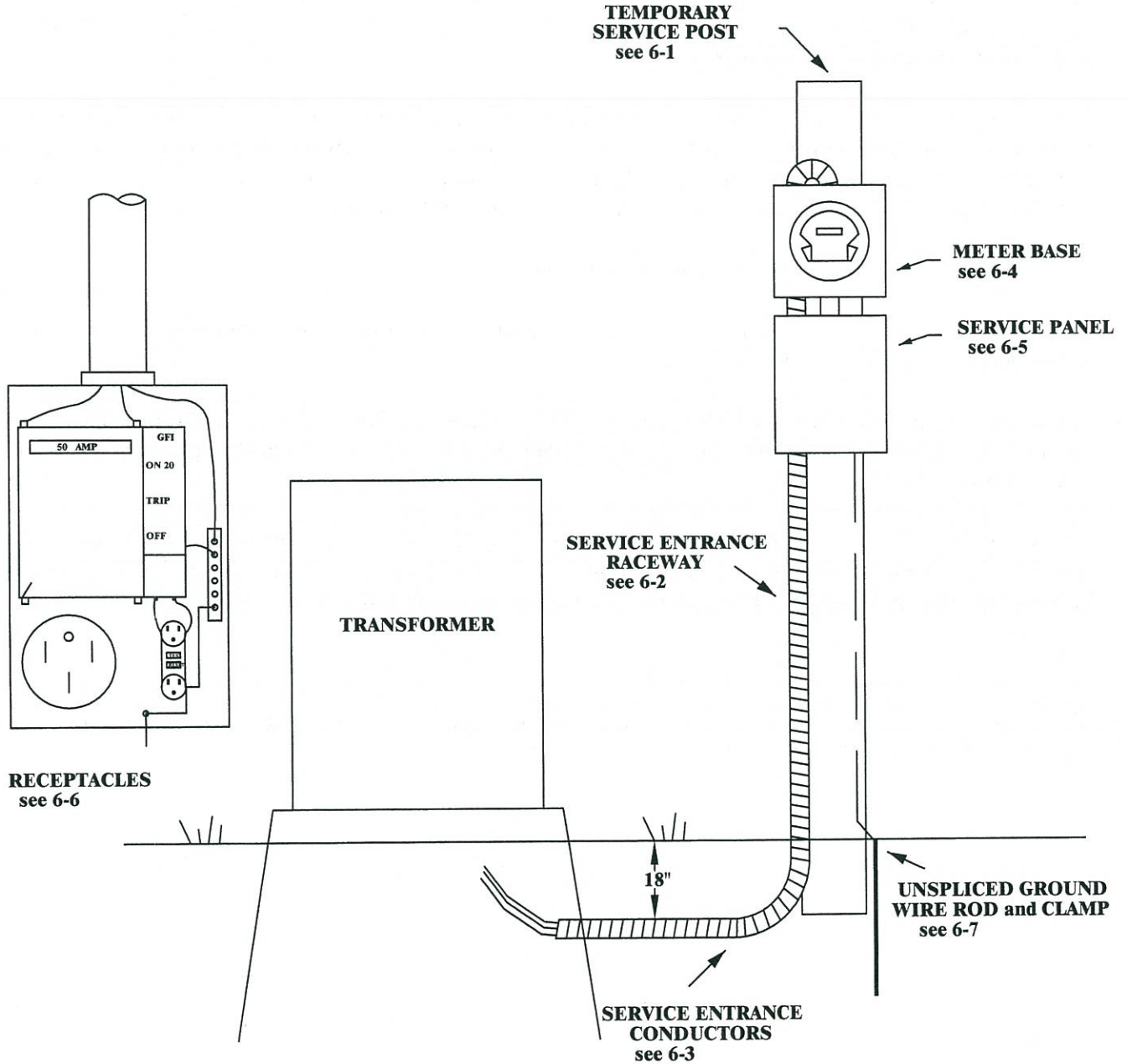


**Fig.6 UNDERGROUND TEMPORARY SERVICE**

AMP	CONDUCTOR	NEUTRAL	GROUND	CONDUIT
60	#6	#6	#4	1"
100	#2	#2	#4	1-1/4"
200	#3/0	#1	#4	2"

WIRE SIZES ARE COPPER



DES will spot location and provide service to temporaries located adjacent to pad-mounted transformers or underground secondary boxes. Temporary must pass state wiring inspection at present site and meet the following wiring and construction standards:

- 6-1. Service equipment and meter base securely fastened to a 4x4 pressure treated post set in the ground at a minimum depth of 2 ft and 2 braces.
- 6-2. Service entrance raceway should be 1 in. for 60 amp and 1 ¼ in. for 100 amp weatherproof flexible conduit for direct burial. The conduit will extend from the meter base to a point inside the transformer pad. Minimum depth of conduit 18".
- 6-3. Service entrance conductors, No. 6 underground cable, will need to be of sufficient length for connection to the transformer, if under a road to transformer pad allow enough seal tight and wire. Connections in transformer cabinet or underground secondary box will be made by DES. Coordinate with DES Operations and Construction Department (446-9051). Use type W conductors.
- 6-4. Meter base will be located between 5 and 6 ft. above grade.
- 6-5. A weatherproof, U.L. listed, temporary service panel will be located at the meter base. In no case will disconnect be less than 2 ft. above grade.
- 6-6. 15 and 20 ampere receptacles will have ground-fault protection for personnel, 240 v plugs, if needed, must be 50 amp four wire and GFI breaker protected and in use covers on temp if receptacles is in weather proof box.
- 6-7. A ground wire of No. 4 bare copper or larger shall be run unspliced from meter base or panel to driven ground rod. An 8 ft. driven ground rod bonded to ground wire with clamp suitable for direct soil burial will be installed below grade, 6 in. from post. Tear drop ground clamp only.

NOTE: Be sure to have underground facilities located before digging. Please call Tennessee One Call to notify utilities in the area. 1-800- 351-1111