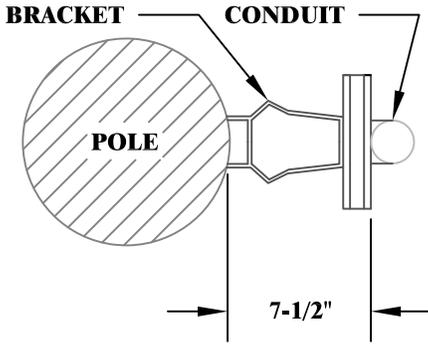


**TOP VIEW OF
POLE MOUNT CONDUIT**



**SIZES IN TABLES FOR
CUSTOMER SIDE OF METER ONLY**

WIRE & CONDUIT SIZES FOR RESIDENTIAL ONLY

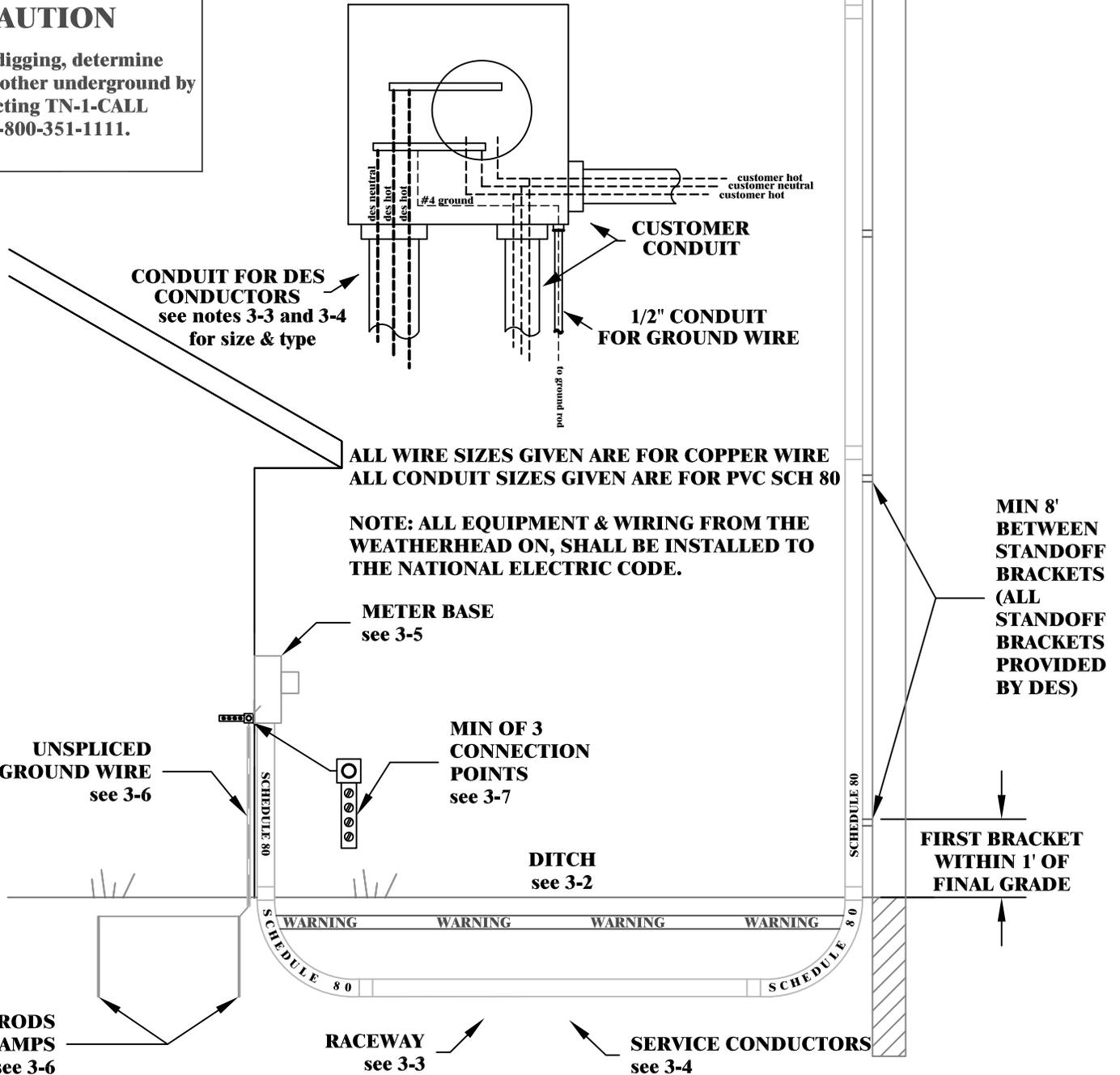
AMP	CONDUCTOR	NEUTRAL	GROUND	CONDUIT
100	#2	#2	#4	2"
200	2/0	#1	#4	2"
225	3/0	1/0	#4	2"
400	400 MCM	400 MCM	#4	3"

WIRE & CONDUIT SIZES FOR NON-RESIDENTIAL ONLY

AMP	CONDUCTOR	NEUTRAL	GROUND	CONDUIT
100	#2	#2	#4	2"
200	3/0	1/0	#4	2"
225	4/0	2/0	#4	2"
400	500 MCM	400 MCM	#4	3"

CAUTION

Before digging, determine location of other underground by contacting TN-1-CALL @ 1-800-351-1111.



ALL WIRE SIZES GIVEN ARE FOR COPPER WIRE
ALL CONDUIT SIZES GIVEN ARE FOR PVC SCH 80

NOTE: ALL EQUIPMENT & WIRING FROM THE WEATHERHEAD ON, SHALL BE INSTALLED TO THE NATIONAL ELECTRIC CODE.

METER BASE
see 3-5

MIN OF 3
CONNECTION
POINTS
see 3-7

UNSPliced
GROUND WIRE
see 3-6

GROUND RODS
and CLAMPS
see 3-6

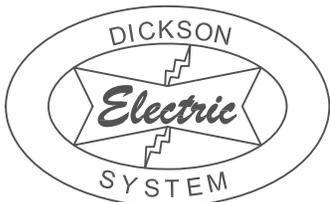
RACEWAY
see 3-3

SERVICE CONDUCTORS
see 3-4

MIN 8'
BETWEEN
STANDOFF
BRACKETS
(ALL
STANDOFF
BRACKETS
PROVIDED
BY DES)

FIRST BRACKET
WITHIN 1'
OF
FINAL GRADE

**UNDERGROUND SERVICE
FROM A RISER POLE**



DATE:

10/5/2018

FIGURE NO:

3

SCALE:

NONE

- 3-1.** DES will furnish and install the following materials at the DES pole:
- a) Service conductor from transformer to meter base for cost of \$1.00 per ft. of conductor.
 - b) Where junction box (not shown) is present at service pole, see DES engineer for specifications.
- 3-2.** Customer will open ditch from service pole or junction box to meter location with the following specifications:
- a) Where ditch length will exceed 225 ft. see DES engineer.
 - b) Bottom of the ditch must be flat and at least 27 in. at all points including any ditch crossings.
 - c) Where impractical to obtain 27 in. depth, see DES engineer.
 - d) Customer will backfill ditch after inspection by DES - 24 hr. notice required.
 - e) Warning tape must be in the ditch with the electrical conduit at a depth of 12 in. below final grade.
 - f) All backfill shall be free of material that may damage the conduit system. The backfill shall not be more than 2 inches in diameter.
- 3-3.** Continuous raceway from DES pole, or junction box, to meter base will be furnished and installed by customer to the following specifications:
- a) 3 in. schedule 40 or 80 electrical PVC, with correct type fittings and/or bushings.
 - b) Minimum 24 in. long radius schedule 80 elbows, continuing with schedule 80 conduit into bottom of meter base and one ten foot stick of schedule 80 conduit up the pole.
 - c) Rope with a minimum breaking strength of 300 pounds or 1/4" pull rope inside raceway. Strings will not be accepted.
- 3-4.** Service conductors installed near other utility lines, structures, or obstructions require:
- a) Conductors run parallel to water or gas lines must have a minimum 3 ft. horizontal separation.
 - b) Conductors crossing water or gas lines, phone or TV cable, shall have a minimum vertical clearance of not less than 12 inches run in schedule 80 electrical conduit. Concrete encasement may be required.
 - c) Conduit under areas such as roads, driveways, patios, etc. Must be run in schedule 80 electrical PVC.
 - d) Telephone and TV cable may be run in the same ditch if installed with a minimum 12 in. horizontal and 12 in. vertical separation between service conductor and cable.
 - e) Disconnect means will be on right side of meter base. Use type W conductors (meant for wet conditions - see NEC 310.8c).
- 3-5.** A meter base of proper size and type, and approved by DES, will be furnished and installed by the customer. Combination meterbases are not approved for use in an underground service installation. Meter will be located between 5 and 6 ft. above final grade, on end of house closest to service pole at a point marked by DES engineer. Meter base will not be located on or under porches, decks, carports. If distribution panel is not located in immediate vicinity of meter, a weatherproof disconnect may be required; refer to National Electric Code. Conduit for DES conductor to enter on left side of meter base. Customer's conduit to exit below or to right of meter base.
- 3-6.** A ground wire of No. 4 bare copper or larger shall be run from the meter base to a to a minimum of two driven ground rods spaced 6 ft. apart. Two 8 ft. driven ground rods bonded to ground wire with clamps suitable for direct soil burial will be installed below final grade. If rebar is used in a concrete foundation or slab the rebar shall be stubbed out of the concrete at the service entrance. The ground wire will be attached to the rebar using suitable clamps then run to the ground rods and then to the meter base unspliced.
- 3-7.** Ground wire shall be run in a 1/2" PVC conduit below grade. Conduit should not be attached to meter base, it should start 4" below meter base and continue down to the ground leaving the ground wire exposed between the meter base and the conduit. Install below the meter base an intersystem bonding terminal with a minimum of three additional termination points on the exposed bare ground wire.