Design Standard

General Overhead Electrical Distribution

Detailed specifications follow.

PART 1 MATERIALS

1.1 All poles shall use S&C brand cutouts.
1.2 All materials shall be hot-dipped galvanized including nuts, bolts, and others.
1.3 Rebuilds (refurbished poles) are prohibited.

PART 2 GROUNDING

2.1 All poles shall be butt wrap grounded and ground-rod attached.

PART 3 PLAIN POLES

3.1 All Poles, regardless of length, shall be of Class 2 (C-2) designation.
3.2 Poles shall be used only at the discretion of the University. Overhead distribution is generally being replaced by underground lines.
3.3 All Poles shall be creosote pressure treated.

PART 4 RISER POLES

4.1 Any primary or secondary riser poll shall have no other equipment mounted onto it including transformers.
4.2 All riser poles shall have riser brackets.
4.3 Any primary or secondary riser shall have a OZ bushing.
4.4 A spare conduit for a riser pole will be installed with cap.

PART 5 DEAD END POLE

5.1 One guy-strain insulator shall be used in each respective guy.
5.2 Conductor size shall depend on anchor size.
5.3 Clearance shall be 20 feet wide and clear of all potential obstructions.
PART 6 OVERHEAD POLES WITH TRANSFORMERS

6.1 Transformer mounted poles shall not have a device arm installed. Single transformer installations may be bolt-mounted. However, any transformer bank cluster consisting of two or more transformers shall utilize an aluminum-form transformer bank rack.
RIDGE PIN

15KV PIN INSULATOR

8' CROSSARM

WOOD CROSSARM BRACE

GROUND WIRE TO HAVE MINIMUM CONDUCTIVITY OF NO 6 SOLID COPPER OR EQUIVALENT

STABLES ON GROUND WIRE SHALL BE 2' APART EXCEPT FOR A DISTANCE OF 8' ABOVE GROUND AND 8' FROM TOP OF POLE WHERE THEY SHALL BE 6' APART TYP

40' CLASS 2 POLE

GROUND (EARTH)

FINISHED GRADE

5" X 8' GROUND ROD

6' TYP

BUTT WRAP