26 12 19 Pad-mounted Medium Voltage Transformers

1. **General:**
   
   A. Each transformer shall be fed from a medium voltage load-interrupter switch connected to the campus distribution system.

   B. Each transformer shall be served underground via two (2) 5" conduits (one spare) from a dedicated load-interrupter switch.

2. **Construction – Standard Features:**
   
   A. Factory Mutual Approval

   B. Aluminum windings.

   C. Live front bushings.

   D. Current limiting Bay-o-net fusing.

   E. Gang operated load break switch.

   F. Provide full capacity standard 2 ½% taps (2 above & 2 below nominal) with an external operator.

   G. Distribution class surge arresters.

   H. FR3 fluid.

   I. Liquid level gauge.

   J. Pressure/Vacuum gauge.

   K. Pressure relief valve.

   L. Fill plug and drain valve.

   M. Provide meter base on secondary side if needed. See section on electrical metering.

3. **Preferred Manufacturers:**
   
   A. Cooper

   B. Square D
C. General Electric

D. ABB

4. Installation:

A. Install on reinforced concrete pad. Pad shall be 8” thick minimum and shall be bedded on 6” of compacted stone. Pad shall extend 6” beyond the outside dimensions of the transformer.

B. Pad to be poured with full “window” openings for primary and secondary conduits.