

**SECTION 16460**  
**TRANSFORMERS**

**PART 1 - GENERAL**

1.01 WORK INCLUDED

- A. Furnish and install indoor dry type distribution transformers as indicated on the drawings.

1.02 REFERENCE DOCUMENTS

- A. The Special Provisions for electrical work are hereby made a part of this Section of the Work. Refer to Section 16010.

1.03 SUBMITTALS

- A. Submit manufacturers complete data showing KVA rating, taps, temperature rise, approximate dimensions, weight and type of enclosure.

1.04 QUALITY ASSURANCE

- A. Transformers shall comply with the following standards:
  - 1. NEWMA ST20-1972 (R1978)  
Dry type transformers for general applications.
  - 2. ANSI C57.105-1978  
Guide for application of transformer connections in three-phase distribution systems.
  - 3. C57/12.50-1981  
Requirements for ventilated transformers 15 to 500 KVA with low voltage 120-600 volts.
  - 4. IEEE C57.12.91 (1979)  
Test code for dry type transformers.

**PART 2 - PRODUCTS**

2.01 TRANSFORMERS

- A. Transformers KVA shall be respectively as shown on the drawings, floor mounted indoor dry type equal to Sorgel, G.E., etc.

- B. Primary shall be as noted; Three-phase secondary shall be a noted, three-phase, four-wire, 60HZ.
- C. Provide six (6) primary taps 2 - 2-1/2 percent above and 4 - 2-1/2 percent below rated voltage. Maximum temperature rise shall be 150 degrees centigrade, average percent Z shall be 5.7 with an X/R of 1.38.
- D. Transformer sound level shall not exceed 50 DB.
- E. Transformers shall be U.L. Listed and so labeled. Suppliers asking for consideration as an approved equal shall submit complete guaranteed performance data physical description for similar transformer.

### **PART 3 - EXECUTION**

#### **3.01 INSTALLATION**

- A. Transformers shall be installed floor mounted on vibration isolators where indicated on the drawings.
- B. Vibration isolators shall be placed at each corner. Vibration eliminator company or approved equal Figure 31 Type "P" load transfer plate on Figure 30 No. 300N composition 1/2 inch thick pad.
- C. Conduits entering or leaving transformers shall be Greenfield or equal flexible conduits in dry areas; Sealtite conduit in wet or damp locations.

**END OF SECTION**