SECTION 16465

BUSWAY

PART 1  GENERAL

1.01  SUMMARY

A. Section Includes:

1. Indoor busway and fittings.
2. Busway plug-in units.

1.02  REFERENCES

A. Specify Underwriters Laboratories (UL) listed equipment, assemblies and materials.
B. Where appropriate, refer to current ANSI and NEMA Standards for material ratings.

1.03  SUBMITTALS

A. Require submittals under the provisions of Section 16010 - Basic Electrical Requirements and 01300 - Submittals.

PART 2  PRODUCTS

2.01  MANUFACTURERS

A. Busway and Plug-In Units:

1. General Electric
2. Westinghouse/Cutler Hammer
3. Square D Company
4. ITE

2.02  EQUIPMENT

A. Indoor Busway:

1. Plug-In Busway:
a. Single or 3 phase with number of low impedance copper busses as required, 120/208V or 277/480V rated, 60 Hz. Provide with non-ventilated housing with plug-in opening 24” on center, each side. Provide with hinged doors to protect unused openings. Busway to have full sized neutral and integrated ground bus. Joints to be single bolt type with silver plated contact surfaces.

2. Feeder Busway:

a. Single or 3 phase with number of low impedance or copper busses as required, 120/208V or 277/480V rated, 60 Hz. Provide with ventilated housing, full sized neutral, and integrated ground bus. Joints to be single bolt type with silver plated contact surfaces.

B. Plug-In Units for Plug-In Busways:

1. General:

a. All units to have hinged door and operating handle for stick or chain operation.

2. Molded Case Thermal - Magnetic Circuit Breakers:

a. Circuit breakers with integral thermal and instantaneous magnetic trip in each pole.

3. Fusible Switch Assemblies:

A. Quick make, quick break, load interrupter enclosed knife switch with externally operable handle, lockable in “off” position. Fuse clips for Class R fuses.

PART 3 EXECUTION

3.01 INSTALLATION

A. Require the following:

1. Buss joints shall be tightened using a calibrated torque wrench.

2. Support bus duct horizontal runs with threaded rod suspension hangers at intervals not to exceed 5’ on center. Provide horizontal sway bracing when busway contains operable plug-in units.

3. Support vertical runs of bus duct at each floor.

4. Integral fire stops are required where busway penetrates fire rated walls or floors.

5. Provide expansion fittings where bus duct crosses building expansion joint and busway is solidly attached to structure.
6. Provide adequate space near spare spaces for future bus switch installations.

B. Fault Current Coordination:

1. Indicate fault current availability on documents and indicate ratings of equipment used.

END OF SECTION 16465