

SECTION 26 0510.03 - ELECTRICAL COORDINATION

PART 1 - GENERAL

1.1 DRAWINGS FOR MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL WORK

- A. Drawings contain diagrammatic layouts and indicate general arrangement of systems, piping conduit, etc.
- B. Prior to installation of material and equipment, review and coordinate work with Architectural and Structural Drawings and other Division work for exact space conditions; where not readily discernable request information from Architect before proceeding.
- C. Check Drawings of all other trades to verify extent of material and equipment to be installed in spaces available and consider layout alternatives so that all requirements can be accommodated.
- D. Maintain maximum headroom at all locations without finished ceilings.
- E. Maintain finished ceiling heights as indicated on Architectural reflected ceiling plans, and building sections and elevation drawings.
- F. Coordinate installations with other trades prior to proceeding to prevent conflict with work of other trades and cooperate in making reasonable modifications in layout as needed.
- G. Where conflicts occur with placement of mechanical and electrical materials as they relate to placement of other building materials, the Architect shall be consulted for assistance in coordination of the available space to accommodate all trades.
- H. Coordinate equipment installation to maintain manufacturer and code required working clearances

1.2 PRIORITY OF CONSTRUCTION SPACE

- A. Following is the Order of Priority for Construction Space:
 - 1. First: Ductwork.
 - 2. Second: Fire protection piping.
 - 3. Third: Other piping.
 - 4. Fourth: Conduit.

1.3 COORDINATION DRAWINGS

- A. The Contractor shall prepare a complete set of electronic PDF type background drawings at scale of minimum 1/4" equals 1'-0".
 - 1. The construction documents in their original, copies or electronic file form are the Architect's instrument of service and are protected under copyright laws. The reproduction of these documents for use as coordination drawings or shop drawings is prohibited without the Architect's written consent and authorization.
- B. Each specialty trade listed below shall prepare a coordination electronic PDF overlay indicating his work, with appropriate elevations and grid dimensions.
- C. Each specialty trade shall sign and date the coordination Drawing after the addition of his information.
- D. Fabrication shall not start until receipt of completed coordination drawings is acknowledged by the Contractor in writing to the Architect.
- E. Specialty Trades:
 - 1. Ductwork
 - 2. Fire protection piping
 - 3. Other piping
 - 4. Electrical
 - 5. Plumbing piping to include but not limited to sanitary, vent, pressure storm, medical gas (if provided), compressed air, natural gas, etc.

- F. Coordination Drawings required for all mechanical rooms, electrical rooms, equipment rooms, corridors, horizontal exits from duct shafts, cross overs and any other areas where congestion of work may occur.
- G. Coordination Schedule Drawing:
 - 1. The mechanical and plumbing contractor shall furnish to electrical contractor for coordination a schedule drawing providing all the electrical characteristics of all mechanical and plumbing equipment requiring electrical connection. The information provided shall include:
 - a. Unit Designation
 - b. Voltage
 - c. MCA
 - d. MOCP/MFS
 - e. FLA
 - f. Disconnect Requirement
 - g. Starter Requirement
 - h. Alarm Wiring Requirements
 - 2. The coordination schedule drawing, once received by the electrical contractor, shall be reviewed and all pertinent electrical accommodations indicated.
 - a. Breaker size.
 - b. Wire size / conduit size.
 - c. Disconnect with fuse size.
 - 3. Once the coordination schedule is completed forward to the engineers for review and approval.
- H. Any deviation in the mechanical equipment which results in a change in the electrical scope of work shall be the responsibility of the mechanical contractor. The mechanical contractor shall reimburse the electrical contractor for any cost. No added cost to the owner will be allowed.
- I. Conflicts that arise due to the fact that the coordination schedule drawing was not completed shall be the sole responsibility of the contractors. All costs for correction or remedial work shall be done at the contractor's expense. No added cost to the owner will be allowed.

END OF SECTION