SECTION 16141

FLOOR BOXES FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes floor boxes; floor box service fittings; poke-through fittings and access floor boxes.

1.2 REFERENCES

A. NECA (National Electrical Contractors Association) - Standard of Installation.

B. NEMA OS 1 (National Electrical Manufacturers Association) - Sheet-steel Outlet Boxes, Device Boxes, Covers, and Box Supports.

1.3 SUBMITTALS

A. Section 01330 - Submittal Procedures: Submittal procedures.

B. Product Data: Submit catalog data for floor boxes service fittings.

C. Samples: Submit two of each service fitting illustrating size, material, configuration, and finish.

1.4 CLOSEOUT SUBMITTALS

A. Section 01770 - Execution Requirements: Closeout and turnover procedures.

B. Project Record Documents: Record actual locations of each floor box and poke-through fitting.

1.5 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.

1.6 DELIVERY, STORAGE AND HANDLING

A. Materials: Materials shall be new and shall be delivered to the job site in the original packaging.
PART 2 - PRODUCTS

2.1 FLOOR BOXES
   A. Floor Boxes: NEMA OS 1, 1 – ½ inches deep minimum depth.
   B. Adjustability: Fully adjustable.

2.2 PEDESTAL-TYPE CONVENIENCE OUTLET SERVICE FITTING
   A. Housing: Satin aluminum.
   B. Device Plate: Stainless steel.
   C. Configuration: One duplex, two duplex, back-to-back.

2.3 FLUSH-COVER-TYPE CONVENIENCE RECEPTACLE SERVICE FITTING
   A. Manufacturers: As specified by project

2.4 PEDESTAL-TYPE COMMUNICATION OUTLET
   A. Manufacturers: As specified by project
   B. Housing: Satin aluminum.
   C. Device Plate: Stainless steel.
   D. Configuration: As specified by project.

2.5 FLUSH-COVER-TYPE COMMUNICATION OUTLET
   A. Manufacturers: As specified by project.

2.6 PEDESTAL-TYPE COMBINATION FITTING
   A. Manufacturers: As specified by project
   B. Housing: Satin aluminum.
   C. Device Plate: Stainless steel.
   D. Configuration: One duplex convenience receptacle with one bushed opening, 1 inch inside diameter.

2.7 FLUSH-COVER-TYPE COMBINATION FITTING
   A. Manufacturers: As specified by project.

2.8 FLUSH-COVER-SERVICE FITTING ACCESSORIES
   A. Manufacturers: As specified by project.
B. Protective Ring: Brass or aluminum finish.
C. Split Nozzle: Brass or aluminum finish.
D. Carpet Ring: Brass.

2.9 POKE-THROUGH FITTINGS
A. Manufacturers: As specified by project
B. Product Description: Assembly comprising service fitting, poke-through component, fire stops and smoke barriers, and junction box for conduit termination.
C. Fire Rating: To match or exceed floor assembly.
D. Service Fitting Type: As specified by project.
E. Housing: As specified by project.
F. Device Plate: As specified by project.
G. Configuration: As specified by project.

2.10 ACCESS FLOOR BOX
A. Manufacturers: As specified by project.
B. Product Description: Sheet metal box suitable for mounting in access floor system.
C. Size: To be determined.
D. Cover: As specified by project.
E. Convenience Receptacle: As specified by project.
F. Communications Receptacle: As specified by project.
G. Data Receptacle: As specified by project.

PART 3 - EXECUTION
3.1 EXAMINATION
A. Section 01330 - Administrative Requirements: Coordination and project conditions.
B. Verify locations of floor boxes and outlets prior to rough-in.
C. Verify that openings in access floor are in proper locations.
3.2 INSTALLATION

A. Install in accordance with NECA "Standard of Installation."

B. Boxes and fittings are shown on drawings in approximate locations unless dimensioned. Adjust box location up to 3 feet if required to accommodate intended purpose.

C. Floor Box Requirements: Use cast floor boxes for installations in slab on grade; formed steel boxes are acceptable for other installations.

D. Set floor boxes level.

E. Install boxes and fittings to preserve fire resistance rating of slabs and other elements.

F. Coordinate installation of all access floor boxes with access floor system provider.

3.3 ADJUSTING

A. Adjust floor box flush with finish flooring material.

3.4 CLEANING

A. Clean interior of boxes to remove dust, debris, and other material.

END OF SECTION