

September 2012, rev. 00

## **26 0501 – Minor Electrical Demolition**

### **PART 1. GENERAL**

#### 1.01 Section Includes

A. Electrical demolition

1.02 The Owner (NIU) determines which sections (if any) of the existing Fire Alarm and/or Fire Suppression systems shall remain in service during demolition.

1.03 The Owner determines which sections (if any) of and existing telephone system shall remain in service during demolition.

### **PART 2. PRODUCTS**

#### 2.01 Materials and Equipment

A. Materials and equipment for patching and extending work: As specified in individual sections.

### **PART 3. EXECUTION**

#### 3.01 Examination

A. Demolition drawings are based on casual field observation and existing record documents. The drawings are intended to indicate the scope of work required and do not indicate every box, conduit, or wire that must be removed. **THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.**

B. Where walls, ceilings, structures, etc., are indicated as being removed on general drawings, the Contractor shall be responsible for the removal of all electrical equipment, devices, fixtures, raceways, wiring, systems, etc., from the removed area.

C. Where ceilings, walls, structures, etc., are temporarily removed and replaced by others, this Contractor shall be responsible for the removal, storage, and replacement of equipment, devices, fixtures, raceways, wiring, systems, etc.

D. Verify that abandoned wiring and equipment serve only abandoned equipment or facilities. Extend conduit and wire to facilities and equipment that will remain in operation following demolition. Extension of conduit and wire to equipment shall be compatible with the surrounding area.

E. Coordinate scope of work with all other Contractors and the Owner at the project site. Schedule removal of equipment and electrical service to avoid conflicts.

- F. Bid submittal shall mean the Contractor has visited the project site and has verified existing conditions and scope of work.

### 3.02 Preparation

- A. Maintain existing Fire Alarm and/or Fire Suppression Systems as required by Owner.
  - 1. Temporary disabling of an in-service system requires that the Owner be notified 24 hours in advance.
- B. Existing Electrical Service: Maintain existing system in service.
- C. Disconnect electrical systems in walls, floors, structures, and ceilings scheduled for removal.
- D. Provide temporary wiring and connections to maintain existing systems in service during construction. When work must be performed on energized equipment or circuits, use personnel experienced in such operations. Assume all equipment and systems must remain operational unless specifically noted otherwise on drawings.
- E. Remove, relocate, and extend existing installations to accommodate new construction.
- F. Remove abandoned wiring and raceway to source of supply.
- G. Remove exposed abandoned raceway, including abandoned raceway above accessible ceiling finishes. Cut raceway flush with walls and floors, and patch surfaces. Remove all associated clamps, hangers, supports, etc. associated with raceway removal.
- H. Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit servicing them is removed. Provide blank cover for abandoned outlets that are not removed. Patch openings created from removal of devices to match surrounding finishes.
- I. Disconnect and remove abandoned panel-boards and distribution equipment.
- J. Disconnect and remove electrical devices and equipment serving utilization equipment that has been removed.
- K. Disconnect and remove abandoned luminaires. Remove brackets, stems, hangers, and other accessories. Provide for proper recycling or disposal of existing lamps and ballasts removed from the site in accordance with EPA and State of Illinois regulations.

- L. Repair adjacent construction and finishes damaged during demolition and extension work. Patch openings to match existing surrounding finishes.
  - M. Maintain access to existing electrical installations that remain active. Modify installation or provide access panel as appropriate.
  - N. Extend existing installations using materials and methods compatible with existing electrical installations, or as specified.
  - O. HID and fluorescent lamps, determined by the Toxicity Characteristic Leachate procedure (TCLP), to be hazardous waste shall be disposed of in a permitted hazardous waste disposal facility or by a permitted lamp recycler.
  - P. Regulatory Requirements: Comply with governing EPA notification regulations before beginning demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
  - Q. Floor slabs may be post-tensioned. X-ray all penetrations prior to cutting and/or drilling to avoid any tension cables or utilities encased in floor construction.
  - R. Floor slabs may contain conduit systems. The Contractor is responsible for taking any measures required to ensure no conduits or other services are damaged. This includes X-ray or similar non-destructive means.
  - S. The Contractor is responsible for all costs incurred in repair, relocations, or replacement of any cables, conduits, or other services if damaged without proper investigation.
- 3.03 Cleaning and Repair
- A. Clean and repair existing materials and equipment that remain or that are to be reused.
  - B. Distribution and Branch Panelboards: Clean exposed surfaces and check tightness of electrical connections. Lubricate where required. Replace damaged circuit breakers and provide closure plates for vacant positions. Provide typed circuit directory showing revised circuiting arrangement.

End of Division 26 0501

**This section of the NIU Design and Construction Standards establishes minimum requirements only. It should not be used as a complete specification.**