

SECTION 26 0501 – GENERAL ELECTRICAL REQUIREMENTS for RENOVATION and DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes general requirements for renovation and demolition of electrical systems and materials for all Campus buildings and facilities.
 - 1. *(Future use)*.
- B. *(Future use)*:
 - 1. *(Future use)*.

1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.3 SUBMITTALS

- A. N/A.

PART 2 - PRODUCTS

- 2.1 N/A.

PART 3 - EXECUTION

3.1 REQUIREMENTS FOR ELECTRICAL RENOVATION AND DEMOLITION

- A. Comply with Northwestern University Design Guidelines.
- B. ***(Select based on project location) [Comply with City of Chicago Codes and Standards.] [Comply with City of Evanston Codes and Standards.]***
- C. Comply with NECA, NFPA, and OSHA requirements, NEC-70 and -70E.
- D. The University may occupy portions of the building immediately adjacent to the area of demolition. Arrange demolition so as not to interfere with University's operations.
- E. Protect adjacent building services and materials indicated to remain. Install and maintain barriers to keep dirt, dust and noise from being transmitted to adjacent areas. Remove

protection and barriers after demolition is completed. If infiltration of dust or dirt results due to improper barriers, Contractor shall be responsible for all maintenance and cleaning.

- F. Where electrical work to remain is damaged or disturbed in the course of the work, the Contractor shall remove damaged portions and provide new products of equal capacity, quality, and functionality at his own expense.
- G. Unless otherwise noted, demolish and remove existing electrical materials and equipment only to the extent required by new construction and as indicated. Removal of equipment shall not interfere with existing operations.
- H. Notify Architect of discrepancies between existing conditions and the Drawings before proceeding with demolition or renovation.
- I. During construction the contractor shall at all times maintain electrical utilities of the building without interruption. Should it be necessary to interrupt any electrical service or utility, the contractor shall secure permission in writing from the University's Chief Electrician for such interruption at least ten (10) business days (or two calendar weeks) in advance. Any interruption shall be made with minimum amount of inconvenience to the University and any shut-down time shall have to be on a premium time basis and such time to be included in the contractor's bid. Arrange to provide and pay for temporary power source if required by project conditions. If requested by NU Electric Shop, power may be metered. Submit drawing of proposed temporary connections for approval.
 - 1. Services passing through areas of remodeling shall be maintained throughout the construction period.
 - 2. Circuits serving areas adjacent to the construction area that are modified as part of a remodeling project shall be re-circuited as part of the project.
 - 3. Provide temporary and/or modify existing emergency power, emergency lighting, fire alarm, and other services as required for construction-period Life Safety measures. Submit proposed plan to NU Electric Shop.
- J. Contractor shall ensure that light switches within the Work area remain operational. Where temporary 120 volt light strings are installed, a switch shall be provided for the light strings near the Project entry door. Lights shall be switched off every day at the completion of the shift.
- K. Turn off circuit breakers or switches serving abandoned circuits at the commencement of work and tag breaker or switch and label in panel schedule as "Spare".
- L. Remove conduit and wire back to panelboards or to nearest junction box that is not being removed and needs to remain in service. Wire shall be removed back to point of origin.
- M. Conduit and Junction Boxes:
 - 1. Conduit and boxes in existing walls to be demolished shall be removed.
 - 2. Conduit and boxes in existing walls to remain (if not reused) shall be removed.
 - 3. Conduit in existing or new ceilings that is not intended for reuse shall be removed back to the panel from where it originates.
 - 4. Conduits that had been run in existing slabs shall be saw-cut off flush where they exit the slab and then be fire-sealed.
- N. Conductors:

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1. Conductors that are not to be reused shall be removed back to the nearest point-of-use. Where the entire circuit is to be removed, the conductors shall be removed back to the panelboard from which they originate.
- O. Receptacles:
1. Remove devices that are not installed at reusable locations. Boxes shall be blanked.
- P. Lighting Fixtures:
1. Lighting fixtures that cannot be reused shall be removed, including associated wiring to ceiling-mounted junction boxes.
 2. Fluorescent lighting fixtures shall not be reused or relocated and shall be replaced with LED types per Section 265100 requirements.
- Q. Relocation: Carefully remove, clean and restore items designated for relocation to a "like new" condition, and store them for reuse.
- R. Materials and equipment to be removed, except items specifically noted to be relocated or delivered to the University, become property of the Contractor and shall be immediately removed from the Project Site and legally disposed of. If the University identifies other items during construction, those items become University property and shall be turned over to the University. All salvaged items belonging to the University shall be stored in a secure area until delivery to University as directed. Transport all such items to University's designated storage area.
- S. Demolished items, rubbish and debris shall be removed from the construction site daily, and at the completion of the work. Floors shall be swept clean daily. Failure to do so may result in the cleanup being performed by others and all costs thereof being deducted from the Contractor's final payment.
- T. All tools and ladders shall be locked up at the end of the work every day.

END OF SECTION 26 0501

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