PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Removal of existing electrical equipment, wiring, and conduit in areas to be remodeled; removal of designated construction; dismantling, cutting and alterations for completion of the Work.
   2. Disposal of materials.
   4. Identification of utilities.
   5. Salvaged items.
   6. Protection of items to remain as indicated on Drawings.
   7. Relocate existing equipment to accommodate construction.

1.2 SUBMITTALS

A. Shop Drawings: Indicate demolition and removal sequence and location of salvageable items; location and construction of temporary work. Describe demolition removal procedures and schedule.

1.3 CLOSEOUT SUBMITTALS

A. Project Record Documents: Record actual locations of capped conduits and equipment abandoned in place.

1.4 SCHEDULING

A. Schedule work to coincide with project phasing.
B. Cease operations immediately when structure appears to be in danger and notify Architect/Engineer. Do not resume operations until directed.

1.5 COORDINATION

A. Coordinate demolition work with Owner.
B. Coordinate and sequence demolition so as not to cause shutdown of operation of surrounding areas.
C. Shut-down Periods:
   1. Arrange timing of shut-down periods of in service panels with Owner. Do not shut down any utility without prior written approval.
2. Keep shut-down period to minimum or use intermittent period as directed by Owner. Maintain life-safety systems in full operation in occupied facilities, or provide notice minimum 14 days in advance.

D. Identify salvage items in cooperation with Owner.

PART 2 PRODUCTS
Not Used

PART 3 EXECUTION

3.1 EXAMINATION
A. Verify existing conditions before starting work.
B. Verify wiring and equipment indicated to be demolished serve only abandoned facilities.
C. Verify termination points for demolished services.

3.2 PREPARATION
A. Erect, and maintain temporary safeguards, including warning signs, barricades, and similar measures for protection of the public, Owner, Contractor’s employees, and existing improvements to remain.
B. Existing Fire Alarm System: Maintain existing system in service. Disable system only to make switchovers and connections. Make temporary connections to maintain service in areas adjacent to work area.
C. Existing Telephone System: Maintain existing system in service.
D. Existing Public Address System: Maintain existing system in service. Disable system only to make switchovers and connections. Make temporary connections to maintain service in areas adjacent to work area.

3.3 DEMOLITION
A. Demolition Drawings are based on field observation and existing record documents. Report discrepancies to Owner before disturbing existing installation.
B. Remove abandoned conduit, cabling and associated supports, including abandoned conduit and cables above accessible ceiling finishes. Cut conduit flush with walls and floors, and patch surfaces to match existing.
C. Remove conduit, wire, boxes, and fastening devices to avoid any interference with new installation.
D. Disconnect electrical systems in walls, floors, and ceilings scheduled for removal.
E. Remaining Circuits and Equipment: Reinstall existing electrical installations disturbed. Certain existing electrical installations may be located in walls, ceilings or floors that are
to be removed and are essential for the operation of other remaining installations. Where this condition occurs provide a new extension of original circuits, raceways, equipment and outlets to retain service continuity. Installations shall be concealed in finished areas.

F. Reconnect equipment being disturbed by renovation work and required for continuous service.

G. Disconnect or shut off service to areas where electrical work is to be removed. Remove electrical fixtures, equipment, and related switches, outlets, conduit and wiring which are not part of final project.

H. Install temporary wiring and connections to maintain existing systems in service during construction.

I. Perform work on energized equipment or circuits with experienced and trained personnel.

J. Remove, relocate, and extend existing installations to accommodate new construction.

K. Repair adjacent construction and finishes damaged during demolition and extension work.

L. Remove exposed abandoned grounding and bonding components, fasteners and supports, and electrical identification components, including abandoned components above accessible ceiling finishes. Cut embedded support elements flush with walls and floors.

M. Clean and repair existing equipment to remain or to be reinstalled.

N. Protect and retain power to existing active equipment remaining.

O. Cap abandoned empty conduit at both ends.

3.4 EXISTING PANELBOARDS

A. Ring out circuits in existing panel affected by the Work. Where additional circuits are needed, reuse circuits available for reuse. Install new breakers.

B. Tag unused circuits as spare.

C. Where existing circuits are indicated to be reused, use sensing measuring devices to verify circuits feeding Project area or are not in use.

D. Remove existing wire no longer in use from panel to equipment.

E. Provide new updated directories where more than three circuits have been modified or rewired.

3.5 SALVAGE ITEMS

A. Items of salvageable value may be removed as work progresses. Transport salvaged items from site as they are removed.

3.6 REUSABLE ELECTRICAL EQUIPMENT

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Selective Electrical Demolition

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A. Carefully remove equipment, materials, or fixtures which are to be reused.
B. Disconnect, remove, or relocate existing electrical material and equipment interfering with new installation.

3.7 CLEANING
A. Remove demolished materials as work progresses. Legally dispose.
B. Keep workplace neat.
C. Clean and repair existing materials and equipment which remain or are to be reused.
D. Panelboards: Clean exposed surfaces and check tightness of electrical connections. Replace damaged circuit breakers and provide closure plates for vacant positions. Provide typed circuit directory showing revised circuiting arrangement.
E. Luminaries: Use mild detergent to clean all exterior and interior surfaces; rinse with clean water and wipe dry. Replace lamps, ballasts, and broken electrical parts.

3.8 RECYCLABLE AND REUSABLE MATERIAL AND EQUIPMENT:
A. Contractor shall be responsible for recycling of all removed materials and equipment as part of this work. Materials shall be collected by a recognized and approved reuse and recycling center.
B. Recyclable and reusable material and equipment shall include but not limited to the following:
   1. Plastic lighting diffusers
   2. Ferrous metals
   3. Non-ferrous metals
   4. Fluorescent lamps and ballasts
   5. UPS, UPS Maintenance Bypass and Batteries

3.9 PROTECTION OF FINISHED WORK
A. Do not permit traffic over unprotected floor surface.

END OF SECTION