

## SECTION 01045

## CUTTING AND PATCHING

## PART 1 GENERAL

## 1.01 SECTION INCLUDES

- A. Cutting, patching and fitting of Work to existing facilities, or to accommodate installation or connection of Work with existing facilities, or to uncover work for access, inspection or testing.

## 1.02 CUTTING AND PATCHING

- A. Perform activities to avoid interference with facility operations and the Work of others in accordance with all provisions and sections of these specifications.
- B. Execute cutting and patching, including excavation, backfill and fitting to:
  - 1. Remove and replace defective Work or Work not conforming to the Drawings and Specifications.
  - 2. Take samples of installed Work as required for testing.
  - 3. Remove construction required to provide for specified alteration or addition to existing work.
  - 4. Uncover Work to provide for inspection or reinspection of covered Work by the Owner Representative or regulatory agencies having jurisdiction.
  - 5. Connect any Work that was not accomplished in the proper sequence to completed Work.
  - 6. Remove or relocate existing utilities and pipes which obstruct Work to which connections must be made.
  - 7. Make connections or alterations to existing or new facilities.
  - 8. Provide openings, channels, chases and flues, if any, and do cutting, patching and finishing.
- C. Restore existing work to a state equal to or better than that prior to cutting and patching. Restore new Work to standards of these Specifications.

- D. Support, anchor, attach, match, trim and seal materials to the Work of others. Unless otherwise specified, furnish and install sleeves, inserts, hangers, required for the execution of the Work.
- E. Provide shoring, bracing and support as required to maintain structural integrity and protect adjacent Work from damage during cutting and patching. Before cutting beams or other structural members, anchors, lintels or other supports, request written instructions from the Owner Representative. Follow such instructions, as applicable.

### 1.03 SUBMITTALS

- A. Submit written notice to the Owner Representative requesting consent to proceed prior to cutting which may affect structural integrity or design function, Owner operations, or work of another contractor.
- B. Include the following in submittal:
  - 1. Identification of project.
  - 2. Description of affected Work.
  - 3. Necessity for cutting.
  - 4. Effect on other work and on structural integrity.
  - 5. Include description of proposed Work:
    - a. Scope of cutting and patching.
    - b. Contractor, subcontractor or trade to execute Work.
    - c. Products proposed to be used.
    - d. Extent of refinishing.
    - e. Schedule of operations.
  - 6. Alternatives to cutting and patching, if any.
- C. Should conditions of Work or schedule indicate change of materials or methods, submit a written recommendation to the Owner Representative including:
  - 1. Conditions indicating change.
  - 2. Recommendations for alternative materials or methods.
  - 3. Submittals as required for substitutions.

- D. Submit written notice to the Owner Representative designating time Work will be uncovered for observation. Do not begin cutting or patching operations until authorized by the Owner Representative.

#### 1.04 CONNECTIONS TO EXISTING FACILITIES

- A. Perform construction necessary to complete connections and tie-ins to existing facilities. Keep all existing facilities in continuous operation unless otherwise specifically permitted in these Specifications or approved by the Owner Representative.
- B. To minimize the inconvenience to the public and to maintain better quality control, the total of all demolition, construction and testing activities cannot exceed 2-lanes in one direction (includes parking lane) for a total length of one-thousand (1,000) linear feet or three City Blocks in length, whichever is less. This aforementioned length, shall be completed in its entirety and all services restored including access to driveways, sidewalks and ADA ramps, roads, etc., prior to work commencing on the next section.
- C. Coordinate with the Owner Representative, interruption of service requiring connection into existing facilities. Bypassing of wastewater or sludge to waterways is not permitted. Provide temporary pumping facilities to handle wastewater if necessary. Use temporary bulkheads (e.g., inflatable plugs) to minimize disruption. Provide temporary power supply and piping to facilitate construction where necessary.
- D. Submit a detailed schedule of proposed connections, including shut-downs and tie-ins. Include in the submittal the proposed time and date as well as the anticipated duration of the Work. Submit the detailed schedule coordinated with the construction schedule.
  - 1. Provide specific time and date information to the Owner Representative 48 hours in advance of proposed Work.
- E. Procedures and Operations:
  - 1. Only city personnel shall operate any valve, gate or other item of equipment without authorization of the Owner.
  - 2. Insofar as possible, equipment shall be tested and in operating condition before final tie-ins are made to connect equipment to the existing facility.
  - 3. Carefully coordinate Work and schedules. Provide written notice to the Owner Representative at least 48 hours before shut-downs or by-passes are required.

PART 2 PRODUCTS - NOT USED.

PART 3 EXECUTION - NOT USED.

END OF SECTION