

Section 01731

CUTTING AND PATCHING

PART 1 GENERAL

1.01 SUMMARY

This Section includes cutting, patching and fitting of Work, coordinating installation or connection of Work with existing facilities, or uncovering Work for access, inspection, or testing and related submittals.

1.02 MEASUREMENT AND PAYMENT

Unit Prices:

No separate payment will be made for cutting and patching. Include cost in unit price for related items.

1.03 REFERENCES (NOT USED)

1.04 SUBMITTALS

- A. Conform to requirements of Section 01330 – “Submittal Procedures”.
- B. Submit written notice to Project Manager requesting consent to proceed prior to cutting which may affect structural integrity, design function, or Work of another contractor.
- C. 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. Proposed products
 - d. Extent of refinishing

- e. Schedule of operations
 - 6. Alternatives to cutting and patching
 - D. When conditions of Work or schedule indicate change of materials or methods, submit written recommendation to Project Manager including:
 - 1. Conditions indicating change
 - 2. Recommendations for alternative materials or methods
 - 3. Submittals as required for substitutions
 - E. Submit written notice to Project Manager designating time Work shall be uncovered for observation. Do not begin cutting or patching operations until authorized by Project Manager.
- 1.05 RELATED REQUIREMENTS
- A. Document 00700 – “General Conditions”
 - B. Section 01330 – “Submittal Procedures”
- 1.06 QUALITY ASSURANCE (NOT USED)
- 1.07 SYSTEM DESCRIPTION
- A. Cutting and Patching
 - 1. Perform activities to avoid interference with facility operations and Work of others in accordance with Document 00700 – “General Conditions” of Contract.
 - 2. Execute cutting and patching, including excavation, backfill and fitting to:
 - a. Remove and replace defective Work or Work not conforming to Plans and Specifications.
 - b. Take samples of installed Work as required for testing.
 - c. Remove construction required to provide for specified alteration or addition to existing Work.
 - d. Uncover Work to provide for inspection or reinspection of covered Work by Project Manager or regulatory agencies having jurisdiction.

- e. Connect Work not accomplished in proper sequence to completed Work.
 - f. Remove or relocate existing utilities and pipes that obstruct Work.
 - g. Make connections or alterations to existing or new facilities.
 - h. When necessary, provide openings, channels, chases and flues and cut, patch, and finish.
 - i. Provide protection for other portions of Project.
3. Restore existing Work to state equal to or better than that prior to cutting and patching and to standards of these Specifications.
 4. Support, anchor, attach, match, trim, and seal materials to Work of others. Unless otherwise specified, furnish and install sleeves, inserts, hangers, required for execution of Work.
 5. Provide shoring, bracing and support as required to maintain structural integrity and protect adjacent Work from damage during cutting and patching. Engineer's written approval is required before cutting beams or other structural members, anchors, lintels or other supports. Follow approved submittals, as applicable.
 6. Fully integrate new materials with existing similar materials by bonding, lapping, mechanically tying, anchoring or other effective means that shall prevent cracks and minimize evidence of patching. Conceal effects of demolition and patching and provide new construction that blends with existing adjacent or abutting surfaces without obvious breaks, joints, or changes of surface appearance unless specifically shown otherwise on Plans or as authorized by Project Manager.
- B. Connections to Existing Facilities
1. 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 Project Manager.
 2. Coordinate interruption of service requiring connection into existing facilities with facility owner and Project Manager. Bypassing of wastewater or sludge to waterways is not permitted. Provide temporary pumping facilities to handle wastewater if necessary. Use temporary bulkheads to minimize disruption. Provide temporary power supply and piping to facilitate construction where necessary.

3. Submit detailed schedule of proposed connections, including shut-downs and tie-ins. Include proposed time and date as well as anticipated duration of Work. Submit detailed schedule coordinated with construction schedule.

Provide specific time and date information to Project Manager 48 hours in advance of proposed Work.

4. Procedures and Operations:
 - a. Operate existing pumps, valves, and gates required for sequencing procedures under supervision of facility owner, operator and Project Manager. Do not operate valve, gate or other item of equipment without Owner's knowledge.
 - b. Equipment shall be tested and in operating condition before final tie-ins are made to connect equipment to existing facility as required.
 - c. Carefully coordinate Work and schedules. Provide written notice to Project Manager at least 48 hours before shutdowns or bypasses are required.

1.08 – 1.13 NOT USED

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION