

SELECTIVE DEMOLITION**SECTION 02070****PART 1 - GENERAL**

1.01 SECTION INCLUDES

- A. Demolition of designated portions of the building and removal of materials from site.
- B. Patching and repairs.
- C. Removal and protection of existing property and persons.

1.02 RELATED WORK

- A. Limited cutting and patching of floors and walls for penetrations of piping, ducts, and conduits is included with the work of the respective mechanical and electrical specification sections in Divisions 15 and 16 and Section 01040 - Cutting and Patching including additional requirements for patching and repair work.

1.03 DEFINITIONS

- A. Remove: Remove and legally dispose of items except those indicated to be reinstalled, salvaged, or to remain the Owner's property.
- B. Remove and Salvage: Items indicated to be removed and salvaged remain the Owner's property. Remove, clean, and pack or crate items to protect against damage. Identify contents of containers and deliver to Owner's designated storage area.
- C. Remove and Reinstall: Remove items indicated; clean, service, and otherwise prepare them for reuse; store and protect against damage.
- D. Existing to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by the Architect, items may be removed to a suitable, protected storage location during selective demolition and then cleaned and reinstalled in their original locations.

1.04 PROJECT RECORD DOCUMENTS

- A. Accurately record actual locations of capped utilities.

1.05 REGULATORY REQUIREMENTS

- A. Conform to applicable code for demolition of structures, safety of adjacent structures, dust control and runoff control.
- B. Obtain required permits from governing authorities.
- C. Do not close or obstruct roadways, sidewalks and hydrants without permits.

- D. Conform to applicable regulatory procedures when discovering hazardous or contaminated materials.
- E. Notify the Environmental Protection Agency prior to any demolition work.
- F. Comply with L.R.S. 40: 1749.13 which states that no person shall excavate or demolish without first ascertaining the location of underground utilities by serving telephonic notice to a regional notification program. In the State of Louisiana, the regional notification program is Louisiana One Call (formerly DOTTIE) which may be reached by calling (504) 275-3700, or toll free at 1-800-584-4274, or by FAX (504) 272-1967.

1.06 SUBMITTALS

- A. Schedule: Submit two copies of proposed methods and operations of demolition to the Architect for review prior to the start of work. Include in the schedule the coordination for shut-off, capping and continuation of utility services as required, and proposed dust control measures.
 - 1. Provide detailed sequence of demolition and removal work to ensure uninterrupted progress of Owner's on-site operations.
 - 2. Interruption of utility services.
 - 3. Coordination for shutoff, capping, and continuation of utility services.
 - 4. Use of elevator and stairs.
 - 5. Locations of temporary partitions and means of egress.
 - 6. Coordinate with Owner's continuing occupation and use of existing building.
- B. Record drawings at project closeout according to Division 1 Section "Contract Closeout".

1.07 JOB CONDITIONS

- A. Occupancy: Owner will occupy portions of the building immediately adjacent to areas of selective demolition. Conduct selective demolition work in manner that will minimize need for disruption of Owner's normal operations. Provide minimum of 72 hours advance notice to Owner of demolition activities that will affect Owner's normal operations.
- B. Condition of Structures: The Owner assumes no responsibility for the actual condition of structures to be demolished.
 - 1. Conditions existing at the time of inspection for bidding purposes will be maintained by the Owner in so far as practicable. However, variations within the structure may occur by Owner's removal and salvage operations prior to the start of the demolition work.

- C. Partial Removal: Items of salvable value to the Contractor may be removed from the structure as the work progresses. Salvaged items must be transported from the site as they are removed.
 - 1. Storage or sale of removed items on the site will not be permitted.
- D. Traffic: Conduct demolition operations and the removal of debris to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities.
 - 1. Do not close or obstruct streets, walks or other occupied or used facilities without permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.
- E. Protections: Provide temporary barricades and other forms of protection to protect Owner's personnel and general public from injury due to selective demolition work. See Section 01010 for additional requirements.
 - 1. Provide protective measures as required to provide free and safe passage of Owner's personnel and general public to occupied portions of building.
 - 2. Erect temporary protections as required by authorities having jurisdiction.
 - 3. Provide interior and exterior shoring, bracing, or support to prevent movement, settlement, or collapse of structure or element to be demolished and adjacent facilities or work to remain.
 - 4. Protect from damage existing finish work that is to remain in place and becomes exposed during demolition operations.
 - 5. Protect floors with suitable coverings when necessary.
 - 6. Construct temporary fire retardant dustproof partitions where required to separate areas where noisy or extensive dirt or dust operations are performed. Equip partitions with dustproof doors and security locks.
 - 7. Provide temporary weather protection during interval between demolition and removal of existing construction on exterior surfaces and installation of new construction to ensure that no water leakage or damage occurs to structure or interior areas of existing building.
- F. Damages: Promptly repair damages caused to adjacent facilities by demolition operations at no cost to the Owner.
- G. Flame Cutting: Do not use cutting torches for removal until work area is cleared of flammable materials. At concealed spaces, such as interior of ducts and pipe spaces, verify condition of hidden space before starting flame-cutting operations. Maintain portable fire suppression devices during flame-cutting operations.
- H. Utility Services: Maintain existing utilities, indicated to remain, keep in service, and protect against damage during demolition operations.

1. Do not interrupt existing utilities serving occupied or used facilities, except when authorized in writing by authorities having jurisdiction. Provide temporary services during interruptions to existing utilities, as acceptable to the governing authorities.
 2. Maintain fire protection services during selective demolition operations.
- I. Environmental Controls: Use water sprinkling, temporary enclosures, and other methods to limit dust and dirt migration. Comply with governing regulations pertaining to environmental protections.

PART 2 - PRODUCTS

2.01 REPAIR MATERIALS

- A. Use repair materials identical to existing materials.
1. Where identical materials are unavailable or cannot be used for exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible.
 2. Use materials whose installed performance equals or surpasses that of existing materials.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- B. General: Provide interior and exterior shoring, bracing, or support to prevent movement, settlement, or collapse of areas to be demolished and adjacent facilities to remain.
1. Cease operations and notify Owner's Representative immediately if safety of structure appears to be endangered. Take precautions to support structure until determination is made for continuing operations.
- C. Provide, erect, and maintain temporary barriers and security devices required to protect personnel and structures.
- D. Protect existing landscaping materials, appurtenances and structures which are not to be demolished.
- E. Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
1. Do not interrupt existing utilities serving occupied or operating facilities, except

when authorized in writing by Owner and authorities having jurisdiction. Provide temporary services during interruptions to existing utilities, as acceptable to Owner and to governing authorities.

2. Provide not less than 72 hours' notice to Owner if shutdown of service is required during changeover.

F. Locate, identify, stub off, and disconnect utility services that are not indicated to remain.

3.02 DEMOLITION REQUIREMENTS

- A. Note: Demolition work shall be done in a systematic manner so to allow the Owner and Architect to observe the completed demolition of portions of the building as determined by the Architect. The aforementioned site observations (walk thru) shall be scheduled and completed prior to any new construction work commencing. This walk thru will allow the Owner and Architect to evaluate the existing conditions that were not visible prior to the demolition and take any action required to remedy deficient or unanticipated conditions, if any.
- B. Conduct demolition to minimize interference with adjacent structures and drives.
- C. Conduct operations with minimum interference to public or private accesses. Maintain egress and access at all times.
- D. Sprinkle Work with water to minimize dust. Provide hoses and water connections for this purpose.
- E. Erect and maintain dustproof partitions and temporary enclosures to limit dust and dirt migration and to separate areas from fumes and noise.
 1. Construct dustproof partitions in accordance with Section 01562.
 2. Seal joints and perimeter. Equip partitions with dustproof doors and security locks.
 3. Protect air-handling equipment.

3.03 DEMOLITION

- A. Disconnect, cap and identify designated utilities within demolition areas.
- B. General: Perform selective demolition work in a systematic manner. Use such methods as required to complete work indicated on Drawings in accordance with demolition schedule and governing regulations.
 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. To minimize disturbance of adjacent surfaces, use hand or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.

2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 3. Demolish concrete and masonry in small sections. Cut concrete and masonry at junctures with construction to remain using power-driven masonry saw or hand tools; do not use power-driven impact tools.
 4. Locate demolition equipment throughout structure and promptly remove debris to avoid imposing excessive loads on supporting walls, floors, or framing.
 5. Provide services for effective air and water pollution controls as required by local authorities having jurisdiction.
 6. Clean adjacent structures and improvements of dust, dirt, and debris caused by demolition operations as directed by the Architect or governing authorities. Return adjacent areas to condition existing prior to the start of the work.
 7. For interior slabs on grade, use removal methods that will not crack or structurally disturb adjacent slabs or partitions. Use power saw where possible.
 8. Where new finishes are required, completely remove existing finishes to expose bare substrate. After removal no residual application materials shall remain that could cause failure of any kind of new finishes, i.e. failure to bond, staining or discoloration, etc.
 9. Return elements of construction and surfaces to remain to condition existing before start of selective demolition operations.
- C. If unanticipated mechanical, electrical or structural elements that conflict with intended function or design are encountered, investigate and measure both nature and extent of the conflict. Submit report to Owner's Representative in written, accurate detail. Pending receipt of directive from Owner's representative, rearrange selective demolition schedule as necessary to continue overall job progress without undue delay.

3.04 PATCHING AND REPAIRS

- A. Promptly patch and repair holes and damaged surfaces caused to adjacent construction by selective demolition operations.
- B. Patching is specified in Division 1 Section "Cutting and Patching".
- C. Where repairs to existing surfaces are required, patch to produce surfaces suitable for new materials.
 1. Completely fill holes and depressions in existing masonry walls to remain with an approved masonry patching material, applied according to manufacturer's printed

recommendations.

- D. Restore exposed finishes of patched areas and extend finish restoration into adjoining construction to remain in a manner that eliminates evidence of patching and refinishing.
- E. Patch and repair floor and wall surfaces in the new space where demolished walls or partitions extend one finished area into another. Provide a flush and even surface of uniform color and appearance.
 - 1. Closely match texture and finish of existing adjacent surface.
 - 2. Patch with durable seams that are as invisible as possible. comply with specified tolerances.
 - 3. Where patching smooth painted surfaces, extend final paint coat over entire unbroken surface containing the patch after the surface has received primer and second coat.
 - 4. Remove existing floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
 - 5. Inspect and test patched areas to demonstrate integrity of the installation, where feasible.
- F. Patch, repair or rehang existing ceilings as necessary to provide an even-plane surface of uniform appearance.

3.05 DISPOSAL OF DEMOLISHED MATERIALS

- A. Remove from the site debris, rubbish, and other materials resulting from the demolition operations.
- B. If hazardous materials are encountered during demolition operations notify the Owner immediately. Comply with applicable regulations, laws, and ordinances concerning and protection against exposed or environmental pollution.
- C. Burning of removed materials from demolished structures will not be permitted on the site.

3.06 CLEANUP AND REPAIR

- A. General: Upon completion of demolition work, remove tools, equipment, and demolished materials from site. Remove protections and leave interior areas broom clean.
 - 1. Repair demolition performed in excess of that required. Return elements of construction and surfaces to remain to condition existing prior to start operations. Repair adjacent construction or surfaces soiled or damaged by selective demolition work.

END OF SECTION

SOIL TREATMENT FOR TERMITE CONTROL**SECTION 02281****PART 1 - GENERAL****1.01 .01 SECTION INCLUDES**

- A. Soil treatment for subterranean termite control at new work. Coordinate with owner's existing termite program..

1.02 REFERENCES

- A. EPA - Environmental Protection Agency - Federal Insecticide, Fungicide and Rodenticide Act.

1.03 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Indicate each toxicant to be used, composition by percentage, dilution schedule, intended application rate. Also include copy of guarantee.
- C. Test Reports: Indicate regulatory agency approval reports when required.
- D. Manufacturer's Installation Instructions: Indicate caution requirements.
- E. Manufacturer's Certificate: Certify that toxicants meet or exceed specified requirements and indicate any deviations required to comply with governing codes and regulations including U.S. Environmental Protection Agency (EPA) regulations for termiticides and State of Louisiana requirements.

1.04 GUARANTEE

- A. Written guarantee shall certify that the applied soil poisoning treatment will prevent the infestation of subterranean termites and, that if subterranean termite activity is discovered during the guarantee period, the Contractor shall re-treat the soil and also repair or replace damage including contents caused by termite infestation.
 - 1. Warranty Period: 5 years from date of treatment, signed by the applicable, with two (2) year renewable option.
 - 2. The warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.
 - 3. Contractor shall submit one week after Notice to Proceed the cost for the first annual renewal and shall guarantee that subsequent annual renewals will not exceed a cost calculated on a 5% compounded rate of increase of the first annual renewal fee.

4. Within 12 months after initial treatment of the outside of the foundation, the perimeter wall shall be trenched and treated as required by label and labeling. The licensee shall report the completion of the application to the outside of the foundation to the Louisiana Department of Agriculture and Forestry on the Termite Perimeter application form. Rodding will be acceptable where trenching may damage flowers and/or shrubs. Maximum distance between rod holes shall be 4 inches.

1.05 PROJECT RECORD DOCUMENTS

- A. Submit under provisions of Section 01700.
- B. Accurately record moisture content of soil before application, date and rate of application, areas of application, diary of meter readings and corresponding soil coverage.

1.06 QUALITY ASSURANCE

- A. Applicator: Company specializing in performing the work of this Section with minimum five (5) years documented experience, and licensed by the State of Louisiana.
- B. Use only termiticides that bear a federal registration number of the EPA and are approved by local and State authorities having jurisdiction including application rates.

1.07 REGULATORY REQUIREMENTS

- A. Conform to applicable code and regulations for requirements for application, application licensing, authority to use toxicant chemicals.
- B. Provide certificate of compliance from authority having jurisdiction indicating approval of toxicants.

1.08 SEQUENCING

- A. Apply toxicant within the 12 hours prior to installation of vapor barrier under slabs-on-grade and finish grading work outside foundations.
- B. Restrictions: Do not apply soil treatment solution until excavating, filling, and grading operations are completed, except as otherwise required in construction operations.
- C. To ensure penetration, do not apply soil treatment to frozen or excessively wet soils or during inclement weather. Comply with handling and application instructions of the soil toxicant manufacturer.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. General: Use an emulsible, concentrated termiticide that dilutes with water, specially formulated to prevent termites infestation. Fuel oil will not be permitted as a diluent. Provide a solution consisting of one of the following chemical elements.
- B. Available Products: Subject to compliance with applicable regulatory agency requirements, products that may be incorporated in the work include, but are not limited to, the following:
 - 1. Dursban TC, Dow Chemical Co.
 - 2. Dragnet FT, FMC Corp.
 - 3. Pretude (Torpedo), Zeneca.
- C. Dilute with water to concentration level recommended by manufacturer.
- D. Other solutions may be used as recommended by the Applicator and if acceptable to the Architect. Provide only soil-treatment solutions which are not injurious to planting or people in concentrations used.

2.02 MIX

- A. Mix toxicant to manufacturer's instructions

PART 3 - EXECUTION

3.01 EXAMINATION/PREPARATION

- A. Verify that soil surfaces are sufficiently dry to absorb toxicant, and ready to receive treatment.
- B. Verify final grading is complete.
- C. Post signs in areas of application warning workers that soil poisoning has been applied. Remove signs when areas are covered by other construction.

3.02 APPLICATION

- A. Spray apply toxicant in accordance with manufacturer's instructions.
- B. Apply toxicant at locations indicated in Schedule at end of Section.
- C. Apply extra treatment to structure penetration surfaces such as pipe or ducts, and soil penetrations such as grounding rods or posts.

- D. Re-treat disturbed treated soil with same toxicant as original treatment.
- E. If inspection or testing identifies the presence of termites, re-treat soil and re-test.

3.03 PROTECTION OF FINISHED WORK

- A. Protect finished Work under provisions of Section 01500.
- B. Do not permit soil grading over treated work.

3.04 SCHEDULES

- A. Surface Preparation: Remove foreign matter that could decrease treatment effectiveness on areas to be treated. Loosen, rake, and level soil to be treated, except previously compacted areas under slabs and foundations. Toxicants may be applied before placing compacted fill under slabs if recommended by toxicant manufacturer.
- B. Application Rates: Apply soil treatment solution as follows:
 - 1. Under slab-on-grade structures, treat soil before concrete slabs are placed, using the following application rates as required by product labeling. Modify rates as required to comply with all applicable regulatory agencies:
 - a. Apply 4 gallons of chemical solution per 10 linear feet to soil in critical areas under slab, including entire inside perimeter of foundation walls, along both sides of interior partition walls, around plumbing pipes and electric conduit penetrating slab, and around interior column footers.
 - b. Apply 1 gallon of chemical solution per 10 sq. ft. as an overall treatment under slab and attached slab areas where fill is soil or unwashed gravel. Apply 1½ gallons of chemical solution to areas where fill is washed gravel or other coarse absorbent material.
 - c. Apply 4 gallons of chemical solution per 10 linear feet of trench for each foot of depth from grade to footing, along outside edge of building. Dig a trench 6 to 8 inches wide along outside of foundation to a depth of not less than 12 inches. Punch holes to top of footing at not more than 12 inches o.c. and apply chemical solution. Mix chemical solution with the soil as it is being replaced in the trench.
 - 2. At expansion joints, control joints, and areas where slabs will be penetrated, apply at rate of 4 gallons per 10 linear feet of penetration.

END OF SECTION

SECTION 02315
EXCAVATION AND FILL

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Excavating for building foundations.

1.2 REFERENCES

- A. ASTM International:
1. ASTM D698 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³)).
 2. ASTM D1556 - Standard Test Method for Density of Soil in Place by the Sand-Cone Method.
 3. ASTM D2167 - Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.
 4. ASTM D2922 - Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
- B. Local utility standards when working within 24 inches of utility lines.

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with Jefferson Parish Building Code standards.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.1 PREPARATION

- A. Call Local Utility Line Information service not less than three working days before performing Work.
1. Request underground utilities to be located and marked within and surrounding construction areas.
- B. Identify required lines, levels, contours, and datum.

