

**SECTION 1100 - REMOVALS****PART 1- GENERAL**

**1.01 SCOPE:** This Section covers demolition activities. Topics included are disposal, salvage rights, cutting, clearing, removal of structures, and final condition of the site.

**1.02 RELATED WORK:** Refer to the following sections for related work:

Earthwork requirements	Section 2000-Earthwork
Pavement Removal	Section 2200-Subgrade Preparation and Pavement Milling
Flowable Fill	Section 4000-Concrete Materials and Methods

**1.03 PERMITS:** Unified Government permits that may be required for demolition are: haul permit for on road transport of rock, earth, or used building materials; oversize load permit for transport of oversized or overweight equipment or salvaged materials; burn permit for on-site burning of trees and brush; land disturbance permit if area of operations exceeds 1 acre; and blasting permit for use of explosives. Off-site disposal sites located in Kansas City, Kansas require permit from Unified Government building inspection.

**1.04 HAZARDOUS MATERIALS:** If potentially hazardous materials requiring special handling, such as asbestos, radioactive material, soil contaminated with petroleum or toxic chemicals, underground fuel tanks, or buried chemical drums, are encountered at locations not shown on or inferable from the drawings, Contractor shall stop work affected by the hazardous material and notify Engineer of the unexpected condition. Contractor shall not recommence work in the affected area until notified by the Unified Government that Contractor may proceed. Changes in contract price or time resulting from the discovery of hazardous materials shall be determined in accordance with the Price Adjustment clause of the General Conditions.

**1.05 DISPOSAL:** Concrete, asphalt pavement, and brick, stone, concrete masonry and dried ready-mix washout may be buried on site where indicated on the drawings. Material with thickness to length ratios of 2.5 : 1 or less may be dumped. Large flat pieces shall be laid level and fully supported. Material buried on site shall be intermixed with sufficient small pieces and fines to fill voids. Placement shall be inspected by Engineer before covering. Material shall be covered by a minimum of 18 inches of clean earth.

Other material shall be disposed of off site. Contractor shall make all arrangements necessary for disposal of materials.

**1.06 SALVAGE:** Unless otherwise noted, the Unified Government retains the salvage rights for traffic barricades and traffic signage, guardrails and posts and impact attenuators, steel plates for utility patches, inlet grates and frames, and manhole covers and frames. Store these items securely on site and notify Engineer to arrange pick up. Unless modified in the Special Conditions or on the drawings, salvage rights for other material belong to Contractor.

**1.07 BLASTING:** Unless permitted in the Special Conditions, explosives shall not be used.

## PART 2 - PRODUCTS

Not used.

## PART 3 - EXECUTION

- 3.01 CLEARING:** Contractor shall remove all vegetative matter from the surface within the limits of grading. Phase clearing operations according to the Erosion Control Plan. Removals shall include turf, shrubs, and trees not shown as remaining; roots larger than 1-1/2 inches to a depth of one foot; fences, sheds, and outbuildings and their foundations; and debris, lumber, and trash dumps. If a falling tree would endanger traffic, structures, or plants to remain, removal shall be by experienced tree surgeon. Disposal of trees and brush by burning will be allowed only if permitted by the Unified Government. Air curtain destructor is required for permitted burning. Contractor shall be responsible for securing permits through the Unified Government Department of Air Quality.
- 3.02 REMOVAL OF STRUCTURES:** Structures shall be razed and foundations removed to a point 4 feet below the existing ground line or 2 feet below proposed finished grade, whichever is lower.
- 3.03 PROTECTION OF PUBLIC:** Areas with uneven driving surface shall be adequately signed, or if allowed, closed to traffic. Areas with uneven walking surfaces, open excavations, stockpile areas, and areas exposed to the possibility of falling debris or other potential hazards shall be secured from entry by the public and a safe alternate route provided.
- 3.04 EARTHWORK:** All excavation and fill shall conform to the earthwork requirements referenced in Part 1, this Section.
- 3.05 ABANDONING SEWER MAINS:** Contractor shall build masonry bulkhead at downstream end of abandoned main. If abandoned main is severed by excavation for proposed structures, cut abandoned main back 5 feet minimum from proposed structure. Bulkhead shall consist of standard 8-inch brick inserted lengthwise into the pipe and mortared in place. Cut bricks as necessary to create level courses. Fill the remaining pipe with flowable fill.
- 3.06 ABANDONING UTILITY LINES:** Utility services shall be disconnected and utility lines abandoned as directed by the utility company. Contractor shall coordinate disconnections and abandonments with the utility.
- 3.07 REMOVAL OF PAVEMENT MARKINGS:** Pavement markings to be removed shall be totally effaced by abrasion or cutting. Painting or tarring pavement markings will not be accepted.
- 3.08 FINAL SITE CONDITION:** Unless bulk earthwork or paving operations immediately follow demolition, the site shall be left in the following condition:
- A. Areas that pond water shall be eliminated.

- B. Slopes shall be no steeper than 3 Horizontal to 1 Vertical.
- C. Debris, salvage, excess construction materials, and Contractor's equipment shall be removed from site.
- D. The site shall be seeded or sodded.

END OF SECTION 1100