

SECTION 2100

REMOVAL OF STRUCTURES AND OBSTRUCTIONS

1.00 GENERAL

1.01 Scope. This Work shall consist of furnishing all labor, equipment, materials and miscellaneous items for the removal and satisfactory disposal or abandonment in place of all fences, signs, structures, old pavements, roads, sidewalks, retaining walls and any other obstructions. It shall also include salvaging of designated materials; backfilling the resulting trenches, holes, and pits; and the restoration and clean-up of the affected area.

This Work shall include sawing concrete and asphalt in reasonably close conformity with the dimensions of these Specifications to create lines of weakness in order to facilitate controlled breaking for removal.

1.02 Submittals. Copies of written agreements for disposal areas will be given to the Engineer before work begins.

2.00 MATERIALS. Not applicable.

3.00 METHODS AND PROCEDURES

3.01 General. The Contractor shall remove and dispose of all signs, structures, fences, old pavements, abandoned pipelines, and other obstructions. All salvageable materials noted shall be removed, without unnecessary damage, in sections or pieces which may be easily transported and stored.

3.02 Disposal. Unusable material may be disposed of outside the limits of view from the project with written permission of the property owner on whose property the material is placed. Copies of all agreements with property owners are to be furnished the Engineer.

Where portions of structures are to be removed, the remaining portions shall be prepared to fit new construction. The work shall be done in accordance with Drawings, and in such manner that materials to be left in place shall be protected from damage; all damage to portions of structures to remain in place shall be repaired by the Contractor at his expense. Reinforcing steel projecting from the remaining structure shall be cleaned and aligned to provide bond with new extension.

3.03 Salvage. Salvage all items shown on the Drawings. During demolition, Owner or his representatives may designate additional materials to be salvaged rather than disposed. All salvage materials shall be removed from the job site by the Contractor and stored at a site to be designated by the Owner.

3.04 Pipe to be left in place. All small metal pipe and metal culverts shall have the ends crushed and crimped back where possible. The ends of all masonry and plastic pipe products shall be completely back-filled with concrete or grout a minimum of 18" or one pipe diameter, whichever is greater. All headwalls and appurtenances shall be removed. Where shown on the Drawings, pipe shall be backfilled their full length.

3.05 Sawing of Concrete. The sawing of concrete shall be done carefully, and all damages to concrete remaining in place, due to Contractor's operations, shall be repaired by the Contractor at

his expense. An effective dust control method must be utilized throughout concrete sawing operations.

3.06 Safety. Operations that may damage or constitute a hazard to the traveling public will not be permitted.

3.07 Removal of Culverts and Other Drainage Structures. Culverts and other drainage structures in areas under traffic use shall not be removed until satisfactory arrangements have been made to accommodate traffic.

Where portions of existing structures lie wholly or in part within the limits of a new structure, they shall be removed as necessary to accommodate the construction of the proposed structure.

3.08 Removal of Pipe. Pipes indicated on the Drawings to be removed for salvage and reuse shall be carefully removed, cleaned and every precaution taken to avoid damage to the pipe. Removal of pipe shall include all appurtenances. Pipe to be salvaged shall be taken to the Owner's designated storage yard; pipe to be re-laid shall be stored by the Contractor so that no damage to pipe will occur. The Contractor shall replace, at his expense, all pipe lost or damaged due to negligence, improper storage or improper construction techniques.

3.09 Removal of Pavement, Sidewalks, Curbs, etc. All concrete pavement, sidewalks, curbs, gutters, etc., designated for removal, shall be broken into pieces, the size of which shall not exceed approximately 400 pounds or 3 square yards of surface area, and shall be disposed of in a suitable manner.

Where old concrete construction abuts new concrete construction, edges of pavement sidewalks, curbs, etc., to be left in place shall be sawn to a true line with a vertical face.

Asphalt and bituminous pavements to be cut to the full depth of pavement with a vertical face in a straight line parallel to the limit of excavation. Cuts shall be made with a saw, or as approved in writing by the Town, so as to provide a straight, true cut. Concrete pavements, including curbs, gutters and sidewalks, to be saw cut to the full depth of pavement with a vertical face in a straight line parallel to the limit of excavation. An effective method of dust control shall be utilized throughout concrete sawing operations.

Feathering of new asphalt pavements onto old pavements will not be permitted under this Contract.

3.10 Abandonment of Manholes, Catch Basins, Inlets, etc. Remove all portions of structure to 12 inches below finish grade. Fill all voids with concrete or Class 1 Structure Backfill (95% density). Backfill to surface with concrete, Class 6 aggregate and/or bituminous asphalt or topsoil to match final surface treatment.

End of Section