

SECTION 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

202.01 Description. This work includes the removal and disposal of buildings, fences, structures, old pavements, abandoned pipelines, and other obstructions designated or permitted not to remain. This does not include for obstructions to be removed and disposed of under other items in the contract. Also, this work includes the salvaging of designated materials and backfilling the resulting trenches, holes and pits.

If the proposal does not include pay items for Section 202 - Removal Of Structures And Obstructions, the Contractor shall do that work under Section 203 - Excavation and Embankment. Also, the work includes the rearrangement of utility and non-highway facilities, existing highway improvements, and portland cement concrete to remain. Rearrangement includes installation, relocation, alteration, salvaging, removing and disposing of structures and obstructions.

202.02 Materials. None specified.

202.03 Construction Requirements. The Contractor shall exercise every precaution to preserve and protect structures, fences, utilities improvements to remain or removed by others according to Subsections:

- (1) 107.16 - Protection and Restoration of Property and Landscape,
- (2) 107.20 - Contractor's Responsibility for Work, and
- (3) 107.21 - Contractor's Responsibility for Utility Property and Services.

(A) Miscellaneous Highway Improvements. Miscellaneous highway improvements located within the highway right-of-way or within the area to be cleared and grubbed shall include:

- (1) signs, posts, raised bars, guardrails, and structures placed for the information, safety, direction, or control of traffic;
- (2) monuments, fences, headers, and curbs;
- (3) concrete curb and gutter, drainage and sewerage structures except those constructed of portland cement concrete;

(B) Removal Methods. The Contractor shall do removal of miscellaneous highway improvements that interfere with construction according to the contract.

The Contractor shall obliterate existing roads that are not to remain in place or rearranged. Obliteration includes rooting, plowing, pulverizing or scarifying to a minimum depth of six (6) inches or to the bottom of the underlying base, whichever is less. The Contractor shall

place an earth cover of not less than six (6) inches in thickness. The Contractor shall submit an earth cover for acceptance. *

The Contractor shall broke up bituminous material pieces not larger than four (4) inches in greatest dimension. The Contractor shall mix the bituminous material with an equal quantity of underlying material. The Contractor shall shape the ground to provide a presentable and well-drained area. *

The Contractor shall backfill trenches, holes, depressions and pits left by the removal of that miscellaneous highway improvements with embankment material as required by the contract. *

The Contractor shall remove abandoned utility lines, such as pipes and conduits, within the roadbed area to a depth of at least twenty-four (24) inches below finished grade. *

The Contractor shall seal existing pipes securely to be abandoned by: *

(1) a tight-fitting plug, *

(2) a wall of Class A or Class B concrete not less than six (6) inches thick, or *

(3) a brick wall not less than eight (8) inches thick with cement mortar joints. *

The Contractor shall demolish abandoned existing manholes to an elevation three (3) feet below finished grade. Also, the Contractor shall backfill the abandoned existing manholes as required by the contract. The Contractor shall salvage the manhole frame and cover according to Section 604 - Manholes, Inlets and Catch Basins. *

(C) Disposal. The Contractor shall remove the miscellaneous highway improvements within the highway right-of-way whether above or below ground at no cost to the State. The Contractor shall dispose outside the highway right-of-way at locations not visible from the roadway as specified in Subsection 201.04 - Removal and Disposal of Material. *

The Contractor shall replace such unsuitable material with material equal in quality to the best material in the existing improvement. *

(D) Removal of Concrete. The Contractor shall remove concrete at the locations and to the lines and elevations shown in the contract. *

The Contractor shall consider concrete and clay pipes to be miscellaneous highway improvement according to Subsection 202.02(A) - Miscellaneous Highway Improvements. The Engineer will not pay as removing concrete. *

The Contractor shall remove existing concrete within the roadbed areas to a depth of at least three (3) feet below finished grade. *

The Contractor shall cut portions of concrete curbs, gutters, sidewalks, aprons, driveways and pavements to remain to a depth of one and a half (1-1/2) inches with a power-drive abrasive saw. The saw cut shall be neat and true with no shattering or spalling of the portion of concrete remaining in place or joining with the new work. *

The Contractor shall do concrete removal operations without damage to portions of the concrete that is to remain in place. The Contractor shall repair damages at no cost to the State according to the contract. *

The Contractor shall clean thoroughly existing reinforcement that is to be incorporated in new work of adhering material before embedding reinforcement in new concrete at no cost to the State. *

The Contractor may break the removed concrete into pieces not larger than two (2) feet in greatest dimension. Also, the Contractor may bury the removed concrete in adjacent embankments at a depth of not less than three (3) feet below finished grade. The Contractor shall not bury the removed concrete in areas where the Contractor may drive pilings. Also, the Contractor shall not bury the removed concrete within ten (10) feet of trees, pipelines, poles, buildings or other permanent objects or structures. The Contractor shall submit in writing for acceptance by the Engineer the manner the removed concrete may be disposed of and at such locations. If the Contractor chooses to dispose of that material outside the highway right-of-way, the Contractor shall make such disposal according to Subsection 201.04 - Removal and Disposal of Material. *

The Contractor shall remove and dispose of reinforcing or other steel encountered in concrete to be removed outside the highway right-of-way according to Subsection 201.04 - Removal and Disposal of Material. *

The Contractor shall break the concrete pavements and similar slabs upon which embankments are to be constructed into pieces not larger than two (2) feet in greatest dimension. The Contractor shall leave them in place, provided the depth of the pieces shall be not less than three (3) feet below finished grade. *

(E) Removal of Bridges. Removal of bridges includes the removing, salvaging, reconstructing and disposing of existing bridges or portions of that bridges constructed of timber, structural steel, or reinforced concrete. *

The Contractor shall conduct partial removal operations causing least interference to public traffic. The Contractor shall not start complete removal operations until public traffic is no longer routed over the structure to be removed. *

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The Contractor shall carefully remove materials that the Contractor is planning to salvage and stockpile near the site as designated. The Contractor shall match mark steel members. The Contractor shall carefully remove timber members and deliver them to a designated baseyard as ordered by the Engineer.

If the Contractor damages or destroys the salvaged or used materials in the reconstructed work, the Contractor shall repair or replace that material at no cost to the State.

The Contractor shall remove and dispose materials that the Contractor are not planning to salvage and stockpile according to Section 201 - Clearing and Grubbing.

The Contractor shall remove pilings, piers, abutments and pedestals to at least twelve (12) inches below ground line.

The Contractor may dispose broken concrete in adjacent embankments according to Subsection 202.03 - Removal of Concrete.

If the Contractor plans to remove portions of a bridge, the Contractor shall do the work without damage to the portion that is to remain in place.

The Contractor shall protect from damage and thoroughly clean adhering material from the existing reinforcement incorporated in the new work before embedding in new concrete.

202.04 Method of Measurement. If the proposal does not show a contract item for the removal of structures and obstructions, the Engineer will not measure the removal of structures and obstructions for payment.

If the proposal provides a contract item for the removal of structures and obstructions, the Engineer will measure the removal of structures and obstructions by the square yard, each or linear foot.

The Engineer will not measure the removal of structures and obstructions when contracted on a lump sum basis.

202.05 Basis of Payment. If the proposal does not show a contract item for removal of structures and obstructions, the Engineer will not pay for the removal of structures and obstructions separately. The Contractor shall consider them incidental to the various contract items.

The Engineer will pay for specific items stipulated for removal and disposal at the contract price bid per unit specified in the proposal. The price shall be full compensation for removal and disposal of that item, excavation, backfill, salvage of materials removed. Salvaging of materials removed includes their custody, preservation, storage on the right-of-way.

Also, the price shall be full compensation for equipment, tools, labor, *}
materials and incidentals necessary to complete the work. *}

The Engineer will make payment under: *}

Pay Item	Pay Unit
Removal of Structures and Obstructions (_____)	Lump Sum
Removal of _____	Each
Removal of _____	Linear Foot
Removal of _____	Square Yard