

Section 204 Removing or Abandoning Miscellaneous Structures

204.1 Description

- (1) This section describes wholly or partially removing or abandoning existing miscellaneous structures, disposing of the resulting materials, or if required, salvaging and storing designated materials.

204.2 (Vacant)

204.3 Construction

204.3.1 General

204.3.1.1 General Requirements

- (1) If retaining a portion of the existing structure, avoid damaging that portion during construction operations. Do not use any equipment or devices that might damage structures, facilities, or property to be preserved and retained. Complete operations necessary to remove or abandon an existing structure and that might endanger the new construction before constructing new work.

204.3.1.2 Backfilling

- (1) Backfill trenches, holes, and pits resulting from breaking down, removing, or abandoning miscellaneous structures as specified for backfilling trenches in [203.3.5](#).
- (2) Unless the contract specifies otherwise, backfill to the elevation of the natural ground, the proposed finished earth subgrade, or finished slopes, as necessary due to the location of the removed structure.

204.3.1.3 Salvaging or Disposing of Materials

- (1) Carefully remove materials designated for salvage to avoid damage. Place salvaged materials in neat piles outside construction limits but within the right-of-way, at locations the engineer approves. Stockpile materials designated for salvage at locations the engineer approves, without contaminating the material with dirt or foreign matter.
- (2) Dispose of concrete, stone, brick, and other material not designated for salvage as specified for disposing of materials under [203.3.4](#).

204.3.2 Breaking Down and Removing

204.3.2.1 General

- (1) Unless specified otherwise, remove structures that the contract designates for removal or that interfere with the new construction as follows:
 - From within the roadway.
 - From within the removal limits the plans show.
 - From within the limits designated under the Obliterating Old Road bid item, whether specified or subsequently found necessary and required.
 - If the contract specifies, also wholly or partially remove structural elements occurring outside the limits of construction and beyond the limits of Obliterating Old Road.
- (2) Unless the plans show otherwise, remove entirely or break down walls, piers, surface drains, foundations, and similar masonry structures as follows:
 1. Within the roadbed, to a depth at least 2 feet below the subgrade.
 2. Outside the roadbed, to a depth at least 2 feet below the finished grade.
 3. At any location, to the extent required to avoid interfering with the work.
- (3) If removing pavement, curb, gutter, sidewalk, crosswalk, and similar structures and portions of the existing structure are to remain in the surface of the finished work, remove the structure to an existing joint, or saw and chip the structure to a true line with a face perpendicular to the surface of the existing structure. Remove enough of the structure to provide proper grades and connection to the new work. Maintain drainage as specified for drainage during construction in [205.3.3](#).
- (4) The contractor becomes the owner of the removed asphaltic pavement or surfacing and is responsible for its disposal as specified for disposing of materials under [204.3.1.3](#).

204.3.2.2 Removing Items

204.3.2.2.1 General

- (1) Under the Removing Pavement bid item, remove concrete pavements, concrete alleys, concrete driveways, or rigid base including all surfaces or other pavements superimposed on them.
- (2) Under the Removing Pavement Butt Joints bid item, remove concrete pavements to allow the construction of butt joints. Remove existing pavement to the depth the plans show by grinding, planing, chipping, sawing, or other engineer-approved methods.

- (3) Under the Removing Asphaltic Surface bid item, remove all types of asphaltic pavement or surfacing not supported on rigid bases, or underlain by proposed excavation, or overlaid by proposed embankment. Also, remove asphaltic overlays of existing concrete pavements, bases, or bridge decks designated to remain in place.
- (4) Under the Removing Asphaltic Surface Butt Joints bid item, remove asphaltic pavement or surfacing to allow the construction of butt joints. Remove existing asphaltic pavements or surfacing to the depth the plans show by grinding, planing, chipping, sawing, or other engineer-approved methods.
- (5) Under the Removing Concrete Sidewalk bid item, remove concrete sidewalk, crosswalk, and steps.
- (6) Under the Removing Lip Curb bid item, remove lip curb to the plane of the pavement surface, +/- one inch.
- (7) Under the Removing Concrete Slope Paving bid item, restore the slope in front of the abutment to a smooth, plane surface after removing the slope paving.
- (8) Under the Removing Delineators and Markers bid item, remove delineators and markers.
- (9) Under the Removing Railroad Track bid item, remove rails, paving, ties, track encasement, and other appurtenances. Remove concrete foundation and leave the ballast aggregate in place.
- (10) Under the Removing Manholes, Removing Catch Basins, and Removing Inlets bid items, rebuild, and properly reconnect live sewers connected with them. Maintain satisfactory bypass service during these operations. Plug unused sewers as specified for abandoning pipes and structures under [204.3.3.1](#).
- (11) Under the Removing Septic Tanks bid item, first completely remove the contents of the tank. Conform to the WDNR requirements for removal and disposal of these contents. Break down and remove the tank, to an elevation not less than 2 feet below the proposed ground surface, or 2 feet below the finished slopes or natural ground surface, as required due to the location of the tank. Before backfilling, break a hole in the bottom of any remaining portion of the tank to allow drainage. Backfill as specified for trenches, holes, and pits in [204.3.1.2](#). If the septic tank disposal system includes a dry well, remove the dry well to not less than 2 feet below ground surface, and backfill it in the manner specified above for the septic tank.
- (12) Under the Site Clearance bid items, remove building foundations and concrete slabs, backfill exposed openings, and clear the site within the right-of-way at the locations the plans show. Materials removed from building sites under this bid item become the contractor's property. The contractor may incorporate these materials in the roadway embankment if the engineer approves. Clear the entire premises of decomposable and combustible refuse, debris, and materials resulting from the removals and leave the premises in a neat condition.
- (13) Under the Removing Storm Sewer bid items, remove existing storm sewer. Backfill resulting trenches with granular backfill conforming to [209.2](#).

204.3.2.2.2 Removing Asphaltic Surface Milling

- (1) Under the Removing Asphaltic Surface Milling bid item, remove existing asphaltic pavement or surfacing by milling at the location and to the depth the plans show. The contractor may incorporate suitable material into the work or dispose of it outside the project limits.
- (2) If stockpiling material for subsequent incorporation into the work, store material at an engineer-approved location that will minimize the hauling required to place the material. Prepare the stockpile foundation to minimize contamination. Ensure that the stockpile foundation is free of clods, lumps, or stones larger than 2 inches in any dimension.
- (3) Remove the existing asphaltic pavement or surfacing without incorporating or damaging underlying material that will remain in place. Provide a uniform milled surface that is reasonably plane, free of large scarification marks, and has the grade and transverse slope the plans show or the engineer directs.
- (4) Use a self-propelled milling machine with depth, grade, and slope controls. Shroud the drum to prevent discharging loosened material into adjacent work areas or live traffic lanes. Provide an engineer-approved dust control system.
- (5) Maintain one lane of traffic during working hours. Unless using a continuous removal and pick-up operation, do not windrow or store material on the roadway. Clear the roadway of materials and equipment during non-working hours. Grade shoulders adjacent to milled areas by the end of each work day to provide positive drainage of the pavement. Do not allow abrupt longitudinal differences of 2 inches or more between lanes during non-working hours. The engineer may waive one or more of these requirements if the highway is closed to traffic or if a particular operation does not endanger traffic.

204.3.2.3 Removing Buildings

- (1) Under the Removing Building and Removing Buildings bid items, remove buildings, dispose of material and debris resulting from removing buildings, and backfill resulting holes.
- (2) Buildings removed and materials resulting from building removal become the contractor's property unless the contract specifies otherwise. Dispose of unclaimed and removed material as specified for disposing of materials in [203.3.4](#).
- (3) The department assumes no responsibility for the condition of any building at any time. The department makes or implies no guarantee that any building will remain in the condition the bidder finds it in when the bidder prepares its proposal.
- (4) Obtain permits necessary for removing buildings, including those necessary if the contractor's operations obstruct streets or alleys.
- (5) Remove buildings and building materials safely and according to the requirements of the Wisconsin department of workforce development, applicable ordinances of the municipality where the building is located, and the WDNR. Pay close attention to the requirements regulating the handling and disposal of asbestos, lead paint, and other hazardous substances. If creating hazardous conditions incident to the contract operations, furnish, erect, and maintain suitable barricades to safeguard the public.
- (6) Notify public utility companies serving the building in sufficient time, before removal operations, to allow them to disconnect and remove their facilities from the building.
- (7) Shut off municipal water service lines at the curb boxes. Tightly plug or seal sewer connections. If municipal ordinances or permits specify the manner of sealing a sewer service connection, then perform the work accordingly.
- (8) Unless the contract specifies otherwise, when removing a building also remove that portion of its foundation, including any masonry floors, to an elevation not less than 2 feet below the ground surface, the proposed finished earth subgrade, or finished slope grade, as necessary due to the location of the building.
- (9) Remove heating units, plumbing fixtures, and similar appurtenances to the elevation of the basement floor.
- (10) Before backfilling, remove debris not suitable for backfilling. Break holes comprising at least 10 percent of the floor area in basement floors to allow drainage.

204.3.3 Abandoning Pipes and Structures

204.3.3.1 General

- (1) If the contract calls for abandoning manholes, catch basins, or inlets, clean them thoroughly. Plug the existing pipe connections with brick or concrete block masonry, or with any grade of concrete specified under [501.3.1.3](#), or any engineer-approved commercial grade of concrete. Unless the plans show otherwise, remove the walls of the structures as follows:
 1. Within the roadbed, to a depth at least 2 feet below the subgrade.
 2. Outside the roadbed, to a depth at least 2 feet below the finished grade.
 3. At any location, to the extent required to avoid interfering with the work.

204.3.3.2 Abandoning, Closing, and Sealing Items

- (1) Under the Abandoning Culvert Pipes bid item, plug both ends of the abandoned pipe as specified in [204.3.3.1](#).
- (2) Under the Closing Culvert Pipes bid item, close both ends of the abandoned pipe as specified for closing culverts in [203.3.3](#).
- (3) Under the Sealing Pipes bid item, thoroughly clean the ends of the abandoned pipe, and seal them with brick, concrete block, or any grade of concrete specified under [501.3.1.3](#).

204.3.3.3 Abandoning Wells

- (1) Under the Abandon Wells bid item, fill and seal wells conforming to the Wisconsin administrative code as follows:

For monitoring wells.....	NR 141
For community wells or high capacity wells	NR 811
For private water supply wells	NR 812

204.4 Measurement

- (1) Unless specified otherwise, the department will measure this work in the original position of the removed structures. If the contract does not include bid items for removing the listed miscellaneous

structures from within the roadway, the department will measure the excavation for those removals as common excavation. The department will determine the volume of excavation for removing concrete structures as the area of the structure times the depth removed.

- (2) The department will measure Removing Pavement, Removing Pavement Butt Joints, Removing Asphaltic Surface, and Removing Asphaltic Surface Butt Joints by the square yard acceptably complete regardless of the depth or number of courses encountered. The department will measure Removing Asphaltic Surface Milling by the square yard, or by the ton acceptably completed.
- (3) If removing curb, gutter, or curb & gutter is required in conjunction with removing pavement, the department will measure removing these structures by the square yard acceptably completed, under the Removing Pavement bid item. If removing a rigid base with an asphaltic surface extending beyond the lateral limits of the rigid base, as in a widened pavement, the department will measure only the area occupied by the rigid base under the Removing Pavement bid item. The department will measure the portion of the asphaltic surfacing beyond the rigid base removed under the Excavation bid items or the Obliterating Old Road bid item. The department will make no deductions for any opening in the removed pavement having an area of 3 square yards or less.
- (4) The department will make no deductions from the volume measured under the Excavation bid items for pavement removed under the Removing Pavement bid item.
- (5) If removing curb, gutter, or curb & gutter that is separate from and not removable in conjunction with removing pavement, the department will measure Removing Curb, Removing Gutter, and Removing Curb & Gutter by the foot acceptably completed, measured along the flow line of gutter for gutter, or curb & gutter, and along face of curb for curb.
- (6) The department will measure Removing Concrete Sidewalk by the square yard acceptably completed. The department will include steps based on the area of the horizontal projection of the steps.
- (7) The department will measure Removing Concrete Barrier, Removing Lip Curb, Removing Guardrail including end sections or anchorages, and Removing Fence by the linear foot acceptably completed.
- (8) The department will measure Removing Concrete Slope Paving by the square yard acceptably completed, measured in the plane of the removal surface.
- (9) The department will measure Removing Delineators and Markers as each individual delineator or marker acceptably completed.
- (10) The department will measure Removing Masonry by the cubic yard acceptably completed.
- (11) The department will measure Removing Surface Drains as each individual surface drain acceptably completed.
- (12) The department will measure Removing Concrete Bases as each individual concrete base acceptably completed.
- (13) The department will measure Removing Railroad Track by the linear foot acceptably completed, measured along single track lines, tracks with 2 rails.
- (14) The department will measure Removing Utility Poles as each individual pole, or pole stub acceptably completed, including attached parts and connections.
- (15) The department will measure Removing Manholes, Removing Catch Basins, and Removing Inlets as each individual manhole, catch basin, or inlet acceptably completed, including attached parts and connections.
- (16) The department will measure Removing Septic Tanks as each individual septic tank acceptably completed, including any dry wells in the tank's disposal system.
- (17) The department will measure the Removing Building bid items as a single lump sum unit for each building acceptably completed. The department will measure the Removing Building bid items as a single lump sum unit for all buildings within the specified parcel acceptably completed.
- (18) The department will measure the Site Clearance bid items as a single lump sum unit for each specified parcel acceptably completed.
- (19) The department will measure the Removing Storm Sewer bid items by the linear foot acceptably completed, measured along the centerline of the pipe.
- (20) The department will measure the Abandoning Manholes, Abandoning Catch Basins, Abandoning Inlets, and Abandoning Wells bid items as each individual unit acceptably completed.
- (21) The department will measure Abandoning Culvert Pipes, Closing Culvert Pipes, and Sealing Pipes as each individual pipe acceptably completed, having both ends plugged.

204.5 Payment

204.5.1 General

- (1) The department will pay for measured quantities at the contract unit price under the following bid items:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
204.0100	Removing Pavement	SY
204.0105	Removing Pavement Butt Joints	SY
204.0110	Removing Asphaltic Surface	SY
204.0115	Removing Asphaltic Surface Butt Joints	SY
204.0120	Removing Asphaltic Surface Milling	SY
204.0125	Removing Asphaltic Surface Milling	TON
204.0130	Removing Curb	LF
204.0140	Removing Gutter	LF
204.0150	Removing Curb & Gutter	LF
204.0155	Removing Concrete Sidewalk	SY
204.0157	Removing Concrete Barrier	LF
204.0160	Removing Lip Curb	LF
204.0165	Removing Guardrail	LF
204.0170	Removing Fence	LF
204.0175	Removing Concrete Slope Paving	SY
204.0180	Removing Delineators and Markers	EACH
204.0185	Removing Masonry	CY
204.0190	Removing Surface Drains	EACH
204.0195	Removing Concrete Bases	EACH
204.0200	Removing Railroad Track	LF
204.0205	Removing Utility Poles	EACH
204.0210	Removing Manholes	EACH
204.0215	Removing Catch Basins	EACH
204.0220	Removing Inlets	EACH
204.0225	Removing Septic Tanks	EACH
204.0230	Removing Building (station)	LS
204.0235	Removing Building (parcel)	LS
204.0240	Site Clearance (parcel)	LS
204.0245	Removing Storm Sewer (size)	LF
204.0250	Abandoning Manholes	EACH
204.0255	Abandoning Catch Basins	EACH
204.0260	Abandoning Inlets	EACH
204.0265	Abandoning Wells	EACH
204.0270	Abandoning Culvert Pipes	EACH
204.0275	Closing Culvert Pipes	EACH
204.0280	Sealing Pipes	EACH

- (2) Payment for removing or abandoning miscellaneous structures is full compensation for breaking down, removing, closing, plugging, or sealing; for removing and disposing of headwalls; for obtaining any required work permits; for hauling and disposing of materials; for providing any required bentonite, soil, brick, concrete block, or concrete; for restoring the roadway cross-section; and, unless the contract specifies granular backfill, for backfilling.
- (3) If the contract specifies or the engineer directs backfilling with granular backfill, the department will pay separately for that backfilling under the Backfill Granular bid items as specified in [209.5](#).
- (4) Except for storm sewer, if the contract does not include bid items for removing the listed miscellaneous structures from within the roadway, the department will pay for excavating these removals under the Excavation Common bid item. The department will pay for excavation for removing concrete structures exceeding one cubic yard, that were not specified for removal in the contract, at 5 times the unit price bid for Excavation Common under the Removing Miscellaneous Concrete Structures administrative

item. Other work involved in removing or abandoning miscellaneous structures within the roadway is incidental to the work.

- (5) Except for storm sewer, if the contract does not include a separate bid item for removing any of the miscellaneous structures listed above from within the limits of Obliterating Old Road, all work involved in the removal thereof, whether specified or subsequently found necessary and required, is incidental to Obliterating Old Road.
- (6) Except for storm sewer, if the contract does not include a separate bid item for removing any of the miscellaneous structures listed above from beyond the roadway and outside the limits of Obliterating Old Road, all work involved in the removal, if the removal is specified in the contract, is incidental to other bid items of work. If this removal is not specified but later found necessary and required, the department will pay for all work involved in this removal as extra work.

204.5.2 Storm Sewer

- (1) If the contract or the engineer requires storm sewer removal and the contract does not include the Removing Storm Sewer bid item, the department will pay for that removal as extra work.