

## **Section 2538. Salvage, Removal, and Disposal of Obstructions**

### **2538.01 DESCRIPTION.**

Salvage, remove, and dispose of buildings and other obstructions from the project site as designated in the contract documents.

### **2538.02 NOTIFICATION AND RIGHTS OF POSSESSION OR OCCUPANCY.**

#### **A. Notification.**

1. Notify the Engineer, in writing, of the intended starting and completion dates for demolition no less than 25 calendar days prior to the start of demolition.
2. If unable to begin work on the intended start date, notify the Engineer, by telephone with a written follow-up, of the new intended start date. To meet the requirements of 40 CFR 61.145(b), provide notification of the inability to commence work on the intended start date as soon as possible before, but no later than 1 working day prior to, the original intended start date. Failure to commence work on the specified start date, and failure to notify of a change in start date 1 working day prior to the original start date, will result in the need for a new 25 calendar day notification to the Engineer.
3. The Contracting Authority will provide notification of the work to the Iowa DNR.

#### **B. Rights of Possession or Occupancy.**

1. The Contracting Authority retains the exclusive right to grant occupancy and collect rent on any property included in this contract.
2. Do not view the interior of occupied houses.

### **2538.03 SALVAGE, REMOVAL, AND DISPOSAL.**

#### **A. General.**

1. Unless designated otherwise in the contract documents, the Contractor may elect to:
  - Demolish the buildings on site and remove the building materials, or
  - Move the building structure intact from the site.
2. Demolition by burning and the burning of demolition debris and material is prohibited.
3. Perform Clearing and Grubbing according to [Section 2101](#).

## **B. Regulated Materials.**

1. The Contracting Authority will have inspected the building for the presence of asbestos, mercury, and PCB-containing materials. These materials will be removed by others.
2. Mercury-containing materials include:
  - Fluorescent, high pressure sodium, mercury vapor, metal halide light bulbs, and
  - Thermostats containing a liquid filled capsule.
3. PCB-containing materials include capacitors, ballasts, and transformers where the component is contained within a metal jacket and does not have a specific, legible, label stating no PCB's are present.
4. Should the Contractor encounter unforeseen regulated materials, immediately suspend all activities that may disturb the suspect regulated material and notify the Engineer.

## **C. Underground Tanks.**

1. If the presence of underground tanks is known, they will be indicated in the contract documents. Unless specified otherwise in the contract documents, perform all work involved in removing and disposing of underground tanks, the associated plumbing, and the contents, as well as placing backfill in the excavation, according to [Section 2537](#).
2. Should the Contractor encounter an underground tank not indicated in the contract documents, avoid disturbing the tank, its associated plumbing, and its contents. Promptly notify the Engineer.

## **D. Removal Requirements.**

### **1. Rodent Extermination.**

When required by local government ordinances, exterminate rodents before commencing demolition.

### **2. Utilities.**

#### **a. Water and Sewer Disconnections.**

- 1) Tap off all water service lines at the main according to the requirements of the local jurisdiction.
- 2) Seal storm and sanitary sewers leading to the buildings to be removed. Unless otherwise required by the City or County, use a burlap plug capped with concrete. If desirable to use drains during the removal work, take preventive measures to prevent dirt, plaster, and other material from entering and clogging sewers.
- 3) Water and sewer disconnections may be performed prior to the intended start date referenced in [Article 2538.02, A](#), with no working days charged.

**b. Other Disconnections.**

- 1) Disconnection of other utilities will typically be arranged by the Contracting Authority prior to salvage and removal work. Verify the disconnection of all utilities and notify Iowa One-Call at 800.292.8989 prior to the commencement of work.
- 2) If a utility has not been disconnected at the time the work is to commence, make arrangements for the disconnections. This work will be paid for according to [Article 1109.03, B.](#)

**3. Permits.**

Some local jurisdictions require a permit for the performance of demolition work or the moving of intact structures, or both, according to [Article 1107.03.](#)

**4. Dust Control.**

Minimize the spread of fugitive dust during demolition of masonry by thoroughly wetting the material.

**5. Safety Fence.**

Furnish and place a safety fence meeting the requirements of [Article 4188.03](#) around the site of work. Leave the safety fence in place until the demolished materials are removed from the site and backfill is placed in all holes or excavated areas. The fencing material remains the property of the Contractor.

**6. Removal of Buildings and Materials.**

- a. Unless directed otherwise in the contract documents, remove all structures, trash, rubbish, basement walls, floors, foundations, sidewalks, steps and driveways from the specified parcel. All materials remain the property of the Contractor, unless designated otherwise in the contract documents.
- b. Remove and dispose of all materials according to Federal, State, and local regulations. Cover all demolition materials being removed from the site, or transport in a manner that prevents visible emissions. Transport all demolition materials that are not being recycled or salvaged directly to a landfill approved by the Iowa DNR (or the equivalent environmental department in a surrounding State) to accept construction and demolition wastes.
- c. Complete the removal of intact structures from the right-of-way within the contract period.
- d. Remove and dispose of appliances and other items that may contain refrigerants according to 40 CFR, Part 82. Appliances and other items that may contain refrigerants include, but are not limited to, refrigerators, freezers, dehumidifiers, and portable or central air conditioners. Venting refrigerants into the atmosphere when removing or disposing of these appliances is prohibited. Ensure a technician certified through a U.S. EPA approved course evacuates refrigerants from these appliances.

Ensure equipment used to evacuate refrigerants is certified by the ARI or UL.

- e. Remove building cornerstones and other historical markers without damaging. Deliver to the Engineer.
- f. Obtain the Engineer's approval prior to commencing backfill placement.

## **7. Septic Tanks and Cisterns.**

Remove septic tanks and cisterns, when included in the contract documents, as described below:

### **a. Septic Tanks.**

- 1) Remove liquids and sludge from all septic tanks prior to their removal. Ensure pumping, transporting, and disposing of septic tank sewage is performed by a Commercial Septic Tank Cleaner licensed for such work by the State of Iowa. Ensure sewage is disposed of according to IA 567, 68.
- 2) Remove septic tanks and place backfill in the excavation according to [Article 2538.03, D, 9](#). Removed septic tanks become property of the Contractor. Transport off the project.
- 3) Plug all lateral lines (inflow and outflow) at the side of the excavation or tank.

### **b. Cisterns.**

Remove all cisterns and place backfill in the excavation according to [Article 2538.03, D, 9](#). Cisterns will be considered demolition debris. Remove from the site.

## **8. Wells.**

- a. Seal the well with methods and materials according to IAC 567, 39, Requirements for Properly Plugging Abandoned Wells. Ensure wells are sealed by a certified well subcontractor.
- b. Remove all obstructions before beginning to fill and seal the abandoned well. Use one or more of the following materials to fill the well:
  - Sand,
  - Pea gravel,
  - Class A, B, or C granular surfacing material,
  - Agriculture lime.
- c. Ensure all fill materials are free of foreign matter and any toxic residue. Introduce the material at the bottom of the well, or at the starting location. Fill and place progressively upward to the bottom of the seal material location.
- d. Use one or more of the following materials to seal the well:
  - Neat cement (14 lbs. (1.7 kg) cement per gallon (liter) of water),
  - Graded bentonite, bentonite pellets, or bentonite grout,
  - Sand cement grout (1 sack of cement/equal volume masonry sand/not more than 6 gallons (23 L) water),
  - PCC.

- e. Place sealing materials using a grout pipe, tremie pipe, cement bucket, or dump bailer, in such a way as to avoid segregation or dilution of the sealing materials. Bentonite pellets or graded bentonite may be added as sealing materials by pouring in place and agitating to avoid bridging.
- f. For a deep well, place neat cement from 10 feet (3 m) below the bottom of the casing to 10 feet (3 m) above the bottom of the casing or to the static water level, whichever is higher.
- g. For wells complete in multiple aquifers, re-use this same procedure throughout subsequent aquifers.
- h. Cut off the upper portion of the well casing at least 4 feet (1.2 m) below ground or construction level. Plug the upper 6 feet (2 m) of the remaining casing with neat cement.

**9. Placing Backfill Material.**

- a. For placing backfill material, furnish earth fill material meeting the requirements of [Article 2102.03, F](#). Place backfill material and compact according to the requirements of [Section 2107](#) for Type A compaction. Complete within 10 working days after completion of the removal of structures.
- b. Grade and shape the site to drain and ensure the condition of the completed site complies with [Article 1104.08](#).

**10. Erosion Control.**

Seed and fertilize, as specified in the contract documents, all areas disturbed by the Contractor's operations. The Engineer may require additional erosion control measures. Additional erosion control measures will be paid for according to [Article 1109.03, B](#).

**2538.04 METHOD OF MEASUREMENT.**

Measurement will be as follows:

- A. Salvage, Removal, and Disposal of Obstructions identified in the contract documents: lump sum item; no measurement.
- B. Sealing Wells: by count for each well filled and sealed.

**2538.05 BASIS OF PAYMENT.**

Payment will be as follows:

- A. Salvage, Removal, and Disposal of Obstructions on Parcel No. \_\_; and Salvage, Removal, and Disposal of Obstructions:
  - 1. Lump sum.
  - 2. Payment is full compensation for:
    - Removal and disposal of buildings, building materials, contents of buildings, appliances, trash, rubbish, basement walls, foundations, sidewalks, steps and driveways,
    - Water and sewer disconnection,
    - Obtaining permits,

- Removal and handling of refrigerants,
- Furnishing and compacting backfill material,
- Finish grading of disturbed areas,
- Furnishing and placing seed and fertilizer,
- Placing and removing safety fencing, and
- Removal of septic tanks and cisterns.

3. Other items of work will be paid for in accordance with [Article 1109.03, B.](#)

**B. Sealing Wells:**

1. Contract unit price per unit.
2. Payment is full compensation for materials, equipment, excavation, filling, and sealing according to the contract documents.