

deleted.

All salvable material including merchantable timber shall become the property of the Contractor unless otherwise indicated on the Plans or in the Proposal, and any salvage expected shall be computed as a credit before arriving at the bid price for this item.

201.10-PAY ITEM:

ITEM	DESCRIPTION	UNIT
201001-*	CLEARING AND GRUBBING	LUMP SUM

* Sequence number

SECTION 202 BUILDING DEMOLITION

202.1-DESCRIPTION:

This work shall consist of complete demolition of such buildings and appurtenances as are specifically designated on the Plans for removal. It shall include rodent control when specified in the Contract, and disconnecting utilities, salvaging and disposing of the resulting materials in the manner and subject to the conditions and regulations prescribed.

202.2-MATERIALS:

The rodenticide treated bait shall consist of the following:

Type I Bait-An anticoagulant, 0.5 percent concentrate, such as warfarin, pival, fumarin, PMP, etc., mixed with cereals and other rodent attractants in the following proportions by weight:

One part anticoagulant to seven parts coarse yellow corn meal; five parts rolled oats; one part granulated sugar; one part corn oil.

In the event rodents do not accept this formula chopped fruit may be substituted for the rolled oats in the same proportion.

Type II Bait-Zinc phosphide, 100 percent concentrate (94 percent minimum assay), mixed in the proportion of 1:96 (one ounce to six pounds) of ground meat or canned dog food.

All rodenticides shall be handled and mixed in the bait in accordance with the manufacturers' instructions.

Insecticide-Two percent Diazinon Dust, or five percent Malathion Dust, or 10 percent Carbaryl Dust, or two to five percent Chlordane Dust.

CONSTRUCTION METHODS

202.3-UTILITIES:

The Contractor shall be solely responsible for making all necessary arrangements and for performing any necessary work to the satisfaction of the utility companies and municipal departments involved in connection with the discontinuance or interruption of all public utilities or services, such as gas,

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water, sewage, electricity, and telephone, which may be affected by the work to be done under the demolition specified.

202.4-DEMOLITION AND EXTENT OF REMOVAL:

The demolition shall conform to the schedule of construction set up for the project.

Buildings and appurtenances shall be removed to the existing ground level, which operation shall include removal of concrete slabs or any other type of floor resting upon the ground. Basements shall be cleared of all debris, appliances, wood or metal partition walls, wood floors, etc., so that only the foundation walls and basement floor remain. The basement floors shall be shattered. If pits, trenches, holes, or basements are not to be eliminated in subsequent excavation operation, they shall be backfilled. All backfill within the roadway prism shall be accomplished in accordance with the requirements of 207. Compaction of backfill outside the roadway prism shall be performed so as to obtain a minimum density equal to that of the surrounding ground.

202.5-DISPOSAL OF MATERIALS:

Materials resulting from demolition shall be disposed of by the Contractor at a West Virginia Division of Natural Resources approved landfill.

202.6-RAT CONTROL:

When specified in the Contract, the following rat control provisions shall apply.

202.6.1-General: The Contractor shall furnish and place suitably prepared bait containing rodenticide in and around buildings to be demolished and shall also furnish and place insecticide for control of ectoparasites. Two rodenticide treated baits differing in content and method of placement will be required within 24 hours after receipt of notification to proceed. The Contractor shall place rodenticide treated bait within the building demolition area.

If the rodent control measures are not promptly furnished by the Contractor, the Division may provide the measures as required and deduct the cost from the money due the Contractor.

202.6.2-Insurance Requirements: In addition to the insurance required of the Contractor on all Division Contracts, the Contractor is required to maintain Liability Insurance for this work in the amounts and form as set forth below for the duration of the work:

- i. Public Liability _____ \$ 1,000,000.00
- ii. Products Liability _____ \$ 1,000,000.00
- iii. Owner Liability _____ \$ 1,000,000.00

The above insurance shall be purchased by the Contractor on behalf of the Division from a company authorized to do business in the State of West Virginia.

202.6.3-Rodent Control Operations: Type I bait containing anticoagulant

shall be placed in shallow bait containers fastened to the floor surface of buildings or in shallow containers heavy enough to prevent overturning or removal to burrows. The containers shall be protected from domestic animals and weather and shall be distinctly labeled with the word Poison and symbol thereof. The initial rate of application shall not be less than four pounds of bait per 1,000 sq. ft. (2 kg per 100 square meters) of building area.

Type II bait containing zinc phosphide shall be wrapped in paper squares approximately 4 in. by 4 in. (100 by 100 mm) in size to form baits about the size of a candy "Kiss". Bait should be placed out of reach of children or pets and should be tossed in otherwise inaccessible places. Initial rate of application shall be a minimum of 20 baits per residential building and 40 baits per commercial building.

Bait shall be placed near burrows, runways, or other areas showing rodent signs. A shallow pan containing water shall be placed in each building.

At the time the bait is set out, the Contractor shall treat all runways, burrow entrances, nests and vertical surfaces against which the rodents may brush with the insecticide dust at a rate of 2 ½ pounds (1 kg) per residential building and four pounds (2 kg) per commercial building.

Location of all bait, bait containers and water containers shall be noted and bi-weekly inspection and replacement of bait and water shall be made. In the event bait is not touched for several days, the bait shall be moved to other areas in the building. Mouldy, wet, caked or insect infested bait shall be replaced. Insecticide dusting shall be repeated once per month.

Baiting and insecticide dusting shall continue until all buildings and rubble are removed from the building demolition area.

A sign shall be posted at the front and rear of each building treated for rodent control. The sign shall be a minimum size of 30 in. by 30 in. (750 by 750 mm) with red lettering and poison symbols on a contrasting background.

Wording of the sign shall be as follows:

**THIS BUILDING
TREATED
FOR RODENT CONTROL
POISON
NO ADMITTANCE**

Minimum size lettering of the word POISON and symbols thereof shall be 6 inches (150mm). All other lettering shall be a minimum of 4 inches (100 mm). The sign shall be made of weather resistant materials such as plastic or exterior plywood and shall be securely fastened to the building.

Where buildings to be demolished have had exterior poison warning signs placed upon them during the Division phase of the rodent control program, the signs remaining on the buildings to be demolished will serve as adequate warning and the signing requirement of this Section is waived.

Exterior poison warning signs previously placed by the Division shall, upon demolition of the buildings, remain Division property and shall be stored on the project for removal by the Division.

Dead rodents shall be removed from the building demolition area daily and

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shall be buried at a minimum depth of 2 ft. (600 mm). The disposal area shall be provided by the Contractor and shall be subject to approval by the Engineer.

202.7-WATER WELLS:

A water well that serves a building that is being demolished shall be abandoned as follows:

Water Wells that are abandoned shall be capped by removing the pump and piping and filling the upper 10 ft. (3 meters) of casing (flush with the end of the casing) with concrete to prevent aquifer contamination.

The Contractor shall obtain a permit to abandon a water well from the County Sanitarian and follow all procedures prescribed in the permit.

202.8-SEPTIC TANKS:

A septic tank that serves a building that is being demolished shall be abandoned as follows:

The contents of the septic tank shall be removed by a licensed septic tank cleaner and the tank removed and disposed of at an approved landfill. The excavation made to remove the tank shall be backfilled with material free of sod, trash, organic substances and muck. The backfill shall be compacted as outlined in 202.4.

202.9-METHOD OF MEASUREMENT:

The unit of measurement will be lump sum value as determined for each building to be demolished and removed, each water well abandonment or each septic tank abandonment.

202.10-BASIS OF PAYMENT:

The buildings demolished and removed as provided above will be paid for at the contract unit price per building, which price and payment shall constitute full compensation for performing all of the requirements of this item, including furnishing all material, labor, tools, equipment, supplies, and incidentals thereto. Salvageable materials resulting from the demolition shall become the property of the Contractor, unless otherwise indicated on the Plans or in the Proposal, and any salvage expected shall be computed as a credit before arriving at a bid price.

The cost of furnishing, placing and maintaining rodenticide treated bait and water, the cost of furnishing and placing insecticide, the cost of signing and disposal of dead rodents, including all material, labor and equipment shall be included in the unit price bid for "Building Demolition".

The water wells or septic tanks abandoned as provided above will be paid for at the contract price per water well or septic tank which price and payment shall constitute full compensation for performing all of the requirements of this item, including furnishing all material, labor, tools, equipment, supplies, and

incidentals thereto.

202.11-PAY ITEMS:

ITEM	DESCRIPTION	UNIT
202001-*	BUILDING DEMOLITION NUMBER, "building number"	LUMP SUM
202002-*	WATER WELL ABANDONMENT NUMBER, "building number"	LUMP SUM
202003-*	SEPTIC TANK ABANDONMENT NUMBER, "building number"	LUMP SUM

* Sequence number

SECTION 203 DISMANTLING STRUCTURES

203.1-DESCRIPTION:

This work shall consist of dismantling such structure or structures specifically designated on the Plans for removal, and matchmarking handling and storage if called for, or disposal if required.

The Contractor is responsible for determining the current condition of the structure (s) and shall use methods and procedures for dismantling the structures in a safe and efficient manner.

Bridge inspection reports are available for informational purposes and may be viewed at the following location:

West Virginia Division of Highways
1900 Kanawha Boulevard East
Building 5, Room A-350,
Highway Operations Division
Charleston, West Virginia 25305-0430

The work shall also include the preparation of a demolition/dismantling plan by the contractor. The plan shall be prepared and sealed by a Professional Engineer registered in the State of West Virginia, experienced in structural analysis of bridges.

The plan shall include a complete structural analysis for all phases of the demolition/dismantling with due regard to the existing condition of the structure at the time the work is performed. Additionally, the analysis shall show that the structure meets the design criteria of the latest edition, including all Interims, of the *AASHTO Standard Specifications for Highway Bridges*, or the *AASHTO LRFD Bridge Design Specifications* during all phases of demolition/dismantling. The design loads shall match those applied to the structure by the contractor's "means and methods" of demolition/dismantling.

The demolition/dismantling plan shall be provided to the Division's Project Supervisor at least seven calendar days prior to the beginning of any demolition/dismantling work. Receipt of the demolition/dismantling plan does not constitute review or approval or relieve the Contractor of his/her responsibility to satisfactorily demolish/dismantle the structure specified.

203.2-MATERIALS:

Not specified.