

212.4.01

B. Pit with Exclusive Access

When granular embankment material is obtained from a pit dedicated exclusively to the Project on which payment for granular embankment is being made, the granular embankment is measured for payment using the average end area method to determine the volume of material removed from the pit and incorporated into The Work.

C. Quarry

When granular embankment material is obtained from a quarry, a certified weight ticket shall accompany the material. The weight of the material delivered and accepted is converted to an equivalent volume based on the dry loose unit weight of the material provided.

212.4.01 Limits

General Provisions 101 through 150.

212.5 Payment

Granular embankment material will be paid for at the Contract Price per cubic yard (meter). This price is full compensation for furnishing material, hauling, placing, compacting, and providing labor, equipment, and superintendence necessary to complete The Work.

Payment will be made under:

Item No. 212	Granular embankment, including material and haul	Per cubic yard (meter)
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212.5.01 Adjustments

General Provisions 101 through 150.

Section 214—Mitigation Site Construction

214.1 General Description

Specifications for this work will be included elsewhere in the Contract.

Section 215—Removal of Solid Waste

215.1 General Description

This work includes excavating, removing, and disposing of solid waste discovered during construction or shown on the Plans. Remove materials according to this Specification, Plan details, and as directed by the Engineer.

215.1.01 Definitions

Solid Waste: Discarded putrescible (i.e. liable to rot) and non-putrescible wastes such as trash, garbage, animal carcasses, debris, and materials not natural to the area.

215.1.02 Related References

A. Standard Specifications

Section 107—Legal Regulations and Responsibility to the Public

Section 109—Measurement and Payment

Section 208—Embankments

B. Referenced Documents

QPL 64

215.1.03 Submittals

Submit a report of disposal from the municipal solid waste landfill to the Engineer for each load of solid waste removed from the project.

215.2 Materials

Handle hazardous materials according to Subsection 107.22, “Hazardous and/or Toxic Waste.”

A. Soil Cover Materials

Soil materials used to cover exposed areas of a removal site may be any noncontaminated earth material approved by the Engineer.

B. Odor Control Chemicals

Acceptable odor control chemicals used for solid waste removal are listed on the Georgia Department of Transportation QPL 64. Similar or equal chemicals may be substituted when approved by the Engineer.

215.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

215.3 Construction Requirements

215.3.01 Personnel

General Provisions 101 through 150.

215.3.02 Equipment

General Provisions 101 through 150.

215.3.03 Preparation

General Provisions 101 through 150.

215.3.04 Fabrication

General Provisions 101 through 150.

215.3.05 Construction

A. Worker Protection

Provide effective engineering and work practice controls to protect employee health and safety.

B. Applicable Specifications

Perform this work according to this Specification and strictly comply with federal, state, or local codes or ordinances pertaining to removing solid waste.

Verify the accuracy and existence of applicable codes, ordinances, or other regulations by obtaining and interpreting state, county, city, or local municipality by-laws for solid waste disposal.

C. Site Information

The Department will make available existing boring logs of sites shown on the Plans. Prospective bidders can obtain this information by contacting the Geotechnical Engineering Bureau of the Office of Materials and Research at (404) 363-7549.

D. Site Categories

Solid waste removal sites are designated as “Shown on the Plans” or “Discovered during Construction” for the purpose of this Specification.

E. Removal and Disposal Procedures

Remove and dispose of solid waste using these requirements:

1. Sites Shown on the Plans

Work with solid waste sites shown on the Plans according to these requirements:

- a. Give the Engineer two weeks notice before removing solid waste.

The Engineer will notify the local governing authority of the proposed work and tentative time schedules.

- b. After beginning to excavate solid waste, give the work constant attention.

Excavate the material to the full depth and width of the cut in one continuous operation, leaving minimum exposed surface.

215.3.06

- c. Leave working faces of the cut as near vertical as possible. However, slope them enough to safely place a layer of soil over the exposed areas.
 - d. Transport solid waste to a permitted municipal solid waste landfill. Obtain a listing of permitted municipal solid waste landfills by contacting the Georgia Environmental Protection Division, Land Protection Compliance Program at (404) 362-2696.
 - e. Obtain permission for disposal from the landfill. You must have the Engineer's approval of the disposal site.
 - f. Fill trucks hauling material from the removal site to less than full capacity to prevent spills.
Completely cover the truck body with a waterproof tarpaulin, large enough to extend over the sides and end of the bed to secure the material in transit. Fasten the tarpaulin securely.
 - g. At the end of each day's work, cover exposed areas of the removal site with a 6 in (150 mm) layer of clean earth. Include the cost of this work in the overall bid submitted.
 - h. Spray odor control chemicals on the exposed solid waste and on hauling vehicles as outlined in Subsection 215.3.05.F, "Odor Control."
 - i. When directed by the Engineer, overexcavate the area based on the conditions of the solid waste site during removal. Overexcavation is measured and paid for according to Subsection 215.4, "Measurement" and Subsection 215.5, "Payment."
 - j. When removal is complete, backfill solid waste areas according to the embankment construction requirements in Section 208. Include the cost of this work in the applicable bid prices for unclassified and borrow.
2. Solid Waste Sites Discovered During Construction
Control solid waste sites discovered during construction by following these requirements:
 - a. Report solid waste sites discovered during construction to the Engineer, immediately. Stop work in the vicinity until the Engineer determines an appropriate Plan for removal and payment.
 - b. Conduct Work approved by the Engineer under the provisions of Subsection 109.05, "Extra Work."
 - c. Remove, dispose of, and backfill according to this Specification and Subsection 107.22, "Hazardous and/or Toxic Waste."

F. Odor Control

Control objectionable odors from the exposed solid waste at the removal site and on haul trucks in transit as follows:

1. Use an effective odor control chemical selected from QPL 64, or an approved equivalent.
The Engineer will cooperate with the local governing authority to determine the acceptability of the odor control chemical, the application concentration, and the application frequency in the removal area and on the hauling vehicles.
2. Keep available a minimum three-day supply of odor control chemical to treat the solid waste during removal operations. During the last three days of removal, the Engineer may allow the odor chemical inventory be reduced to save expenses.
Include the cost of spray material, labor, and equipment necessary to control objectionable odors in the overall bid submitted.

215.3.06 Quality Acceptance

General Provisions 101 through 150.

215.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

215.4 Measurement

The work performed under this item is measured as follows:

A. Sites Shown on the Plans

Removing solid waste from sites shown on the Plans is measured by the cubic yard (meter).

The volume of material measured for payment will be based on cross-section measurements using the average end area method.

Excavating outside the neat lines shown on the Plans is not measured for payment unless the work is directed and authorized by the Engineer.

B. Sites Discovered during Construction

Work for solid waste removal sites discovered during construction is measured according to Subsection 109.05, “Extra Work.”

C. Overexcavation of Solid Waste

Overexcavating solid waste to depths below those shown on the Plans is measured by the cubic yard (meter). Volume calculations are described in Subsection 215.4.A, “Sites Shown on the Plans.”

215.5 Payment

Work performed under this Item will be paid for as follows:

A. Sites Shown on the Plans

Removing solid waste from sites shown on the Plans will be paid for at the Contract Unit Price bid per cubic yard (meter). This is full compensation for excavating the solid waste material; hauling and properly disposing of the hazardous materials; closing the remaining landfill site; constructing necessary haul roads; furnishing chemicals and spraying the removal site, trucks, and contents as required; disposing at a permitted municipal solid waste landfill; and providing fencing, labor, equipment, tools, direction, and incidentals necessary to complete the Item.

B. Sites Discovered during Construction

Removing solid waste from sites discovered during construction will be paid for according to Subsection 109.05.

C. Overexcavation of Solid Waste

When the Engineer requires removal of solid waste beyond the limits shown on the Plans, payment for removal and disposal will be as follows:

1. Solid waste removed from within the neat cross sections shown on the Plans, and to the depth of 3 ft (1 m) below those cross sections, will be paid for at the Unit Price bid per cubic yard (meter) for removing solid waste.
2. Solid waste removed to depths below the 3 ft (1 m) specified above will be paid for as follows:

- a. Over 3 ft (1 m) but not over 10 ft (3 m) deep:

This material will be paid for at the rate of 110 percent of the Unit Price bid per cubic yard (meter) for that portion of the material over 3 ft (1 m) but not over 10 ft (3 m) of extra depth.

- b. More than 10 ft (3 m) deep:

If the extra depth exceeds 10 ft (3 m), stop work in that area. The Engineer will request an investigation by the Office of Materials and Research.

If necessary to excavate below the 10 ft (3 m) level, do not resume work until a satisfactory plan for payment has been established.

Payment will be made under:

Item No. 215	Removal of solid waste	Per cubic yard (meter)
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215.5.01 Adjustments

General Provisions 101 through 150.

Section 216—Unpaved Shoulders**216.1 General Description**

This work includes constructing unpaved shoulders.

216.1.01 Definitions

General Provisions 101 through 150.

216.1.02 Related References**A. Standard Specifications**

Section 106—Control of Materials