

SECTION 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

202.01 Description. This section describes razing, removing, disposing of, or salvaging buildings, bridges, walls, fences, structures, old pavements, abandoned pipelines or utilities, and other structures and obstructions designated for removal.

202.02 Materials.

Concrete Structures 503

Concrete Brick 704.02

202.03 Construction. Preserve and protect structures, fences, and utilities to remain or to be removed by others in accordance with the following: Subsection 104.11 - Utilities and Services; Subsection 107.12 - Protection of Persons and Property; and Subsection 108.16 - Contractor’s Responsibility for Work; Risk of Loss or Damage.

(A) Removal of Obstructions. Remove obstructions that interfere with construction, such as the following:

- (1)** Signs, posts, raised bars, guardrails, and structures placed for the information, safety, direction, or control of traffic.
- (2)** Monuments, fences, walls, and headers, except items indicated to remain.
- (3)** Curb and gutter, drainage and sewerage structures, except those constructed of portland cement concrete.
- (4)** Utility structures, such as pull boxes and handholes.

Remove existing roads that are not to remain in place. Removal includes rooting, plowing, pulverizing, or scarifying to a minimum depth of 6 inches or to bottom of new underlying base, whichever is less. Place earth cover of not less than 6 inches in thickness. Submit Earth Cover Plan.

Break up HMA into pieces not larger than 4 inches in their greatest dimension. Mix HMA with an equal quantity of underlying material. Shape ground to provide a presentable and well-drained area.

Remove abandoned utility lines, such as pipes and conduits, within the roadbed area contained inside project limits.

202.03

46 Seal pipes to be abandoned with one of the following:

47

48 (1) Tight-fitting plug.

49

50 (2) Wall of Class A or Class B concrete not less than 6 inches
51 thick.

52

53 (3) Brick wall not less than 8 inches thick with cement mortar
54 joints.

55

56 Demolish abandoned manholes, catch basins, and drop inlets to an
57 elevation 3 feet below finished grade. Demolish and remove bottom of
58 abandoned manholes, catch basins, and drop inlets before backfilling in
59 accordance with the contract documents.

60

61 Dispose of materials in accordance with Subsection 201.03(F) -
62 Removal and Disposal of Material.

63

64 Backfill trenches, basements, cavities, depressions and pits left by the
65 removal of obstruction to level of surrounding ground in accordance with
66 Subsection 203.03 (C) - Embankment Construction.

67

68 **(B) Removal of Concrete Structures.** Remove existing concrete slabs,
69 foundations, and old pavements within roadbed areas contained inside
70 project limits unless otherwise indicated in the contract documents.

71

72 Cut, with power-driven abrasive saw, a 1-1/2-inch-deep joint at
73 interface of concrete curbs, gutters, sidewalks, aprons, driveways, or
74 pavements that are to remain and that are to be removed. Cut neat and true
75 with no shattering or spalling of concrete to remain in place.

76

77 Break demolished concrete structure into pieces not larger than 4
78 inches. Bury broken concrete pieces at a depth not less than 3 feet below
79 finished grade of embankment. Do not bury broken concrete pieces in areas
80 where deep foundations, such as driven piles and drilled shafts, are to be
81 placed, or within 10 feet of trees, pipelines, poles, buildings, or other
82 permanent objects or structures. Submit method that demolished concrete
83 structure will be disposed of within project areas.

84

85 **(C) Removal of Bridges.** At least 10 working days prior to beginning
86 bridge removal over or adjacent to public traffic, submit details of bridge
87 removal operations, showing methods and sequence of removal and
88 equipment to be used. Do not begin bridge removal until the Engineer has
89 accepted bridge removal plan and public traffic has been rerouted.

90

91

91 When accepted by the Engineer, partial bridge removal will be
92 allowed. Conduct partial bridge removal in a manner that minimizes
93 interference to public traffic.

94
95 During removal, protect from damage materials that are to be
96 salvaged. Stockpile salvaged material at site accepted by the Engineer.
97 Mark steel members so they may be matched later. During removal, protect
98 from damage timber members that can be reused, and deliver them to a
99 baseyard indicated by the Engineer.

100
101 Repair or replace damaged or destroyed salvaged materials planned
102 for use in reconstruction work or ordered to be saved.

103
104 Remove and dispose of materials in accordance with Subsection
105 201.03(F) - Removal and Disposal of Material.

106
107 Remove pilings, piers, abutments, and pedestals to at least 3 feet
108 below finished grade or at least 3 feet below scour line, whichever is lower.

109
110 Dispose of broken concrete in adjacent embankments in accordance
111 with Subsection 202.03(B) - Removal of Concrete Structures.

112
113 Conduct partial bridge removal work without damaging remaining
114 portion of bridge.

115
116 Protect from damage and thoroughly clean adhering material from
117 existing reinforcement to be incorporated in new concrete work.

118
119 **202.04 Measurement.** Removal of structures and obstructions will be paid on a
120 lump sum basis. Measurement for payment will not apply.

121
122 **202.05 Payment.** The Engineer will pay for the accepted removal of structures
123 and obstructions on a contract lump sum basis. Payment will be full compensation
124 for the work prescribed in this section and the contract documents.

125
126 The Engineer will pay for the following pay item when included in the proposal
127 schedule:

Pay Item	Pay Unit
Removal of _____	Lump Sum

132
133
134 **END OF SECTION 202**