

1 Amend **Section 201 - Clearing and Grubbing** to read as follows:

2
3 **"SECTION 201 - CLEARING AND GRUBBING**

4
5 **201.01 Description.** This section describes clearing, grubbing, removing,
6 and disposing of vegetation, debris, and unwanted material from right-of-way,
7 easements, road approaches, project and borrow pit sites, and other areas
8 designated in the contract or by the Engineer. Clearing and grubbing shall be
9 performed in advance of grading operations.

10
11 This section also describes protecting trees, vegetation, and objects
12 designated for preservation according to the contract.

13
14 Clearing is defined as removing and disposing of all unwanted surface
15 material, such as trees, brush, grass, weeds, downed trees, or other material.

16
17 Grubbing is defined as removing and disposing of all unwanted vegetative
18 matter from underground, such as stumps, roots, buried logs, or other debris.

19
20 Debris is defined as unusable or unwanted material produced by clearing
21 and grubbing.

22
23 **201.02 Materials.** Use accepted commercially-available product with asphalt
24 base and fungicide prepared specifically for tree surgery, to paint cut, and scarred
25 surfaces of trees and shrubs designated to remain.

26
27 **201.03 Construction.**

28
29 **(A) Vector Control.** Prior to starting site clearing or structure removal,
30 comply with requirements of HAR Title 11, Department of Health, Chapter
31 26, Section 11-26-35 - Rodents.

32
33 **(B) Limits.** Unless otherwise specified in the contract, clear and grub
34 entire length of the project to limits specified below. Do not clear and grub
35 outside these limits. The following are included within the limits of clearing
36 and grubbing:

37
38 **(1)** Highway construction areas that include structures, frontage
39 roads and streets, ramps, approaches, ditch and channels with a
40 bottom width of 12 feet or more, and other access roads and road
41 connections that are to be constructed: Extend construction areas
42 to a width of 5 feet outside excavation and embankment slope lines.
43 When slopes require rounding, extend construction areas to outside
44 limits of slope rounding.

47 (2) Highway construction areas that include ditch and channels
48 with a bottom width of less than 12 feet: Extend construction areas
49 to a width of two feet outside ditch or channel slope lines.
50

51 (3) Material sites within the Right-of-Way.
52

53 (4) Areas enclosed by interchange loops and ramps.
54

55 (C) **Clearing.** Clear all surface objects, including trees, logs, roots of
56 downed trees, brush, residue of agricultural crops, grass, weeds, asphalt,
57 concrete or masonry, and other unwanted obstructions. Unwanted
58 material includes lumber, trash, and other loose debris.
59

60 Preserve trees, shrubs, plants, and other objects to remain within
61 the established limits.
62

63 Protect remaining trees and shrubbery from injury or damage. Cut
64 trees to be removed without injuring trees and shrubbery that are to remain.
65

66 Cut close to the trunks, in accordance with recognized standards of
67 good arboricultural practices, tree branches that extend over roadway within
68 20 feet of finished grade. Remove additional branches, as required, to
69 give trees a balanced appearance.
70

71 Do not exceed total erosion control exposure area limits described in
72 Subsection 209.03(B)(5) – Construction Requirements.
73

74 Protect land monuments, property markers, or official datum points
75 until the Engineer authorizes their removal and until re-establishment survey
76 data has been obtained.
77

78 (D) **Grubbing.** Grub areas below natural ground surface, within limits
79 specified, of vegetative and unwanted material interfering with the proposed
80 work. Do not leave unsuitable material under embankments and dikes.
81

82 Leave all undisturbed and sound stumps and nonperishable solid
83 objects more than 3 feet below subgrade and embankment slopes. Leave
84 stumps and nonperishable solid objects that extend less than 3 inches above
85 the ground line or low water level when they are outside the excavation and
86 embankment areas. Cut stumps flush or below the final slope line.
87

88 Backfill stump holes and other holes with embankment material and
89 compact according to Subsection 203.03(C) - Embankment Construction
90 except in areas to be excavated.
91
92

93 **(E) Removal and Disposal of Material.** Remove material and debris,
94 and dispose of at an authorized disposal site. Obtain written authorization
95 from property owners and governmental authorities for disposal locations
96 outside highway right-of-way limits.
97

98 When accepted by the Engineer, reduce degradable materials to
99 mulch or chips of a maximum size of 1/4 inch and disposed of in areas
100 enclosed by interchange loops and ramps or between the slope lines and
101 right-of-way lines. Spread mulch and chips uniformly on the ground
102 surface, and mix one to one with underlying earth so that they will not
103 support combustion.
104

105 Leave roadway and adjacent areas with a neat and finished.
106

107 Leave roadway and adjacent areas with a neat and finished
108 appearance. Dispose of slashings, flammable material, and other debris
109 within or adjacent to highway Right-of-Way. Do not burn material and
110 debris.
111

112 **(F) Best Management Practices (BMP).** Ensure that all BMP measures
113 are in place before clearing and grubbing starts. If BMP measure is
114 removed, reinstall before end of workday.
115

116 **201.04 Measurement.** The Engineer will not measure clearing and grubbing
117 including removal of large trees for payment.
118

119 **201.05 Basis of Payment.** The Engineer will not pay for the clearing and
120 grubbing including removing large trees separately. The Engineer will consider
121 the cost for clearing and grubbing as included in the contract price of the various
122 contract items.
123

124 The cost is for full compensation for the work described in this section and
125 contract documents.
126

127 The Engineer will pay for BMP in accordance with Section 209 – Water
128 Pollution and Erosion Control.”
129

130
131
132 **END OF SECTION 201**