

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 and
21 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.

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

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

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

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

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

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

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

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

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

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

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

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

95 **(E) Removal and Disposal of Material.** Remove material and debris,
96 and dispose of at an authorized disposal site. Obtain written authorization
97 from property owners and governmental authorities for disposal locations
98 outside highway right-of-way limits.
99

100 When accepted by the Engineer, reduce degradable materials to
101 mulch or chips of a maximum size of 1/4 inch and disposed of in areas
102 enclosed by interchange loops and ramps or between the slope lines and
103 right-of-way lines. Spread mulch and chips uniformly on the ground surface,
104 and mix one to one with underlying earth so that they will not support
105 combustion.
106

107 Leave roadway and adjacent areas with a neat and finished.
108

109 Leave roadway and adjacent areas with a neat and finished
110 appearance. Dispose of slashings, flammable material, and other debris
111 within or adjacent to highway Right-of-Way. Do not burn material and debris.
112

113 **(F) Best Management Practices (BMP).** Ensure that all BMP measures
114 are in place before clearing and grubbing starts. If BMP measure is
115 removed, reinstall before end of workday.
116

117 **201.04 Measurement.** The Engineer will not measure clearing and grubbing
118 including removal of large trees for payment.
119

120 **201.05 Basis of Payment.** The Engineer will not pay for the clearing and
121 grubbing including removal of large trees separately. The Engineer will consider the
122 price for clearing and grubbing as included in the contract price of the various
123 contract items.
124

125 The cost is for the work prescribed in this section and contract documents.
126

127 The Engineer will pay for BMP in accordance with Section 209 – Temporary
128 Water Pollution, Dust and Erosion Control.”
129
130
131

132 **END OF SECTION 201**