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[8-01.3\(1\)B.OPT1.GR8](#) (October 3, 2022)
Use on projects without a CSWGP that require an ESC lead.

8-01.3(1)C.GR8 Water Management

8-01.3(1)C4.GR8 Management of Off-Site Water

[8-01.3\(1\)C4.INST1.GR8](#) (Section 8-01.3(1)C4 is supplemented with the following)
Must use once preceding any of the following:

[8-01.3\(1\)C4.OPT1.FR8](#) (Off-site stormwater routed through or around Project site)
(August 6, 2012)
Use when there are known locations where stormwater enters the project site and it is desired to prevent this stormwater from flowing uncontrolled through the project site.
(1 fill-in)

8-01.3(2).GR8 Temporary Seeding and Mulching

8-01.3(2)B.GR8 Temporary Seeding

[8-01.3\(2\)B.INST1.GR8](#) (Section 8-01.3(2)B is supplemented with the following)
Must use once preceding any of the following:

[8-01.3\(2\)B.OPT1.FR8](#) (Composition, proportion, quality and application rate of grass seed)
(August 4, 2014)
Use on projects where a common, non-native or non-source-identified seed can be used. This mix will generally be used within urban areas on small areas of disturbance. The fill-ins for the seed should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect.
(2 fill-ins) (Fill-ins with dollar signs only are to be used as required)

[8-01.3\(2\)B.OPT2.FR8](#) (Composition, proportion, quality and application rate of grass seed)
(August 4, 2014)
Use in projects where the Region Landscape Architect recommends source identified (local genetics) native seed. The fill-ins should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect.
(3 fill-ins) (Fill-ins with dollar signs only are to be used as required.)

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[8-01.3\(2\)B.OPT3.GR8](#) (Seeding by hand)
(September 3, 2019)
Use in projects with seeding and fertilizing of less than 1 acre, the use of mechanical equipment would not be cost effective, or on remote projects with many small areas.

[8-01.3\(2\)B.OPT4.FR8](#) (One application of fertilizer)
(January 3, 2006)
Use in projects requiring only one application of fertilizer.
(4 fill-ins) (The fill-ins for the fertilizer itself should be by consulting the State Horticulturist, the Region Landscape Architect, or Headquarters Roadside and Site Development. Fill-in \$\$\$ should be 2/3 the amount of nitrogen in fill-in \$1\$\$.)

[8-01.3\(2\)B.OPT8.FR8](#) (Composition, proportion, quality and application rate of grass seed)
(August 4, 2014)
Use in projects where the Region Landscape Architect recommends native seed that is not source identified. The fill-ins should be provided by the Region Landscape Architect or Headquarters Roadside and Site Development for regions without a Landscape Architect.
(3 fill-ins)

[8-01.3\(2\)D.GR8](#) Temporary Mulching

[8-01.3\(2\)D.INST1.GR8](#) (Section 8-01.3(2)D is supplemented with the following)
Must use once preceding any of the following:

[8-01.3\(2\)D.OPT1.FR8](#) (Type and rate of application of mulch)
(January 5, 2015)
Use in projects requiring the application of mulch when the application rate per acre or the allowable pounds in any single lift are revised from the Standard Specifications.
(3 fill-ins)

[8-02.GR8](#) Roadside Restoration

[8-02.1.GR8](#) Description

[8-02.1.INST1.GR8](#) (Section 8-02.1 is supplemented with the following)
Must use once preceding any of the following:

[8-02.1.OPT1.GR8](#) (Removal of Buried Previously Fabricated Debris)
(August 4, 2014)

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Use on projects that include soil amendment, and/or irrigation systems, and where previously fabricated construction debris is known or suspected to exist. Requires the approval of the Region Construction Manager. Must include **8-02.3(5).OPT4.GR8** and **8-02.5.OPT2.GR8**.

[8-02.1.OPT2.GR8](#)

(Biotic Soil Amendments)
(April 1, 2019)

Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.
Must also use **8-02.2.OPT2.GR8**, **8-02.3.OPT1.GR8**, **8-02.4.OPT2.GR8**, and **8-02.5.OPT4.FR8**.

[8-02.2.GR8](#)

Materials

[8-02.2.INST1.GR8](#)

(Section 8-02.2 is supplemented with the following)
Must use once preceding the following:

[8-02.2.OPT1.GR8](#)

(Conservation Grade Plant Material)
(January 3, 2011)

Use in projects that include “conservation grade” plant material in the plant list. Use requires approval of the Region Landscape Architect or HQ Region Liaison Landscape Architect.

[8-02.2.OPT2.GR8](#)

(Biotic Soil Amendments)
(April 1, 2019)

Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.
Must also use **8-02.1.OPT2.GR8**, **8-02.3.OPT1.GR8**, **8-02.4.OPT2.GR8**, and **8-02.5.OPT4.FR8**.

[8-02.2\(9-14\).GR8](#)

(Erosion Control and Roadside Planting)

[8-02.2\(9-14\).INST1.GR8](#)

(Section 9-14 is supplemented with the following)
Must use once preceding the following:

[8-02.2\(9-14\).OPT1.FR8](#)

(Weed Barrier Mats)
(January 3, 2011)

1 Use in projects requiring weed barrier mats.
2 (1 fill-in) Fill-in is the staple length.
3 Contact the Region Landscape Architect or HQ Region
4 Liaison Landscape Architect for fill-in information.

5
6 [8-02.2\(9-14.2\).GR8](#) (Topsoil)

7
8 [8-02.2\(9-14.2\(1\)\).GR8](#) (Topsoil Type A)
9 (Section 9-14.1(1) is supplemented with the
10 following)
11 Must use once preceding any of the following:

12
13 [8-02.2\(9-14.2\(1\)\).OPT1.FR8](#) (February 25, 2021)
14 For use on projects where Topsoil Type A is
15 needed for stormwater BMPs and for plant
16 growth and establishment. Contact the
17 Landscape Architect for fill-ins and depth of
18 application.
19 (4 fill-ins)

20
21 [8-02.2\(9-14.5\).GR8](#) (Mulch and Amendments)

22
23 [8-02.2\(9-14.5\(8\)\).GR8](#) (Compost)
24 (Section 9-14.5(8) is supplemented with the
25 following)
26 Must use once preceding any of the following:

27
28 [8-02.2\(9-14.5\(8\)\).OPT2.GR8](#) (September 3, 2019)
29 May be used to allow biosolids compost on
30 projects that do not use compost on
31 stormwater BMPs. Use with concurrence
32 of the Hydraulics Engineer.

33
34 **[8-02.3.GR8](#) Construction Requirements**

35
36 [8-02.3.INST1.GR8](#) (Section 8-02.3 is supplemented with the following)
37 Must use once preceding any of the following:

38
39 [8-02.3.OPT1.GR8](#) (Biotic Soil Amendments)
40 (April 1, 2019)
41 Use on projects to amend poor quality soils (which have a
42 lack of organic matter and little to no bioactivity) using
43 Biotic Soil Amendments (BSAs). Should only be used if
44 the soil is determined to be deficient from the results of a
45 soil organic matter test or the soil analysis and the
46 application of compost or topsoil is not possible due to
47 steepness or access. Use requires the approval of the
48 Region Landscape Architect or the HQ Region Liaison
49 Landscape Architect.
50 Must also use [8-02.1.OPT2.GR8](#), [8-02.2.OPT2.GR8](#), [8-](#)
51 [02.4.OPT2.GR8](#), and [8-02.5.OPT4.FR8](#).

52
53 [8-02.3\(4\).GR8](#) Topsoil

Must use once preceding any of the following:

[8-02.4.OPT2.GR8](#)

(Biotic Soil Amendments)

(April 1, 2019)

Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.

Must also use **8-02.1.OPT2.GR8**, **8-02.2.OPT2.GR8**, **8-02.3.OPT1.GR8**, and **8-02.5.OPT4.FR8**.

[8-02.5.GR8](#)

Payment

[8-02.5.INST1.GR8](#)

(Section 8-02.5 is supplemented with the following)

Must use once preceding any of the following:

[8-02.5.OPT2.GR8](#)

(Removal of Buried Previously Fabricated Debris)

(September 7, 2021)

Must include with **8-02.1.OPT1.GR8** and **8-02.3(5).OPT4.GR8**.

[8-02.5.OPT4.FR8](#)

(Biotic Soil Amendments)

(April 1, 2019)

Use on projects to amend poor quality soils (which have a lack of organic matter and little to no bioactivity) using Biotic Soil Amendments (BSAs). Should only be used if the soil is determined to be deficient from the results of a soil organic matter test or the soil analysis and the application of compost or topsoil is not possible due to steepness or access. Use requires the approval of the Region Landscape Architect or the HQ Region Liaison Landscape Architect.

(1 fill-in) (Fill-in #1 indicates which seed item will be used in conjunction with the BSA. Consult with the Region Landscape Architect to determine which permanent seeding item to use.)

Must also use **8-02.1.OPT2.GR8**, **8-02.2.OPT2.GR8**, **8-02.3.OPT1.GR8**, and **8-02.4.OPT2.GR8**.

[8-03.GR8](#)

Irrigation Systems

[8-03.3.GR8](#)

Construction Requirements

[8-03.3\(6\).GR8](#)

Excavation

[8-03.3\(6\)A.GR8](#)

Trenches

[8-03.3\(6\)A2.GR8](#)

Within Critical Root Zone

1 [8-03.3\(6\)A2.INST1.GR8](#) (Section 8-03.3(6)A2 is supplemented with the
2 following)

3 Must use once preceding any of the following:

4
5 [8-03.3\(6\)A2.OPT1.FR8](#) (Trenching in Critical Root Zone)

6 (October 3, 2022)

7 Use in projects when the Landscape Architect
8 has indicated that locations of mechanical
9 trenching will be allowed.

10 (1 fill-in)

11 Fill-in #1: Indicate locations where
12 mechanical trenching within the critical root
13 zone will be allowed. Contact Region
14 Landscaping Office for assistance.

15
16 **[8-10.GR8](#)**

Guide Posts

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18 **[8-10.1.GR8](#)**

Description

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20 [8-10.1.INST1.GR8](#)

(Section 8-10.1 is supplemented with the following)

21 Must use once preceding any of the following:

22
23 [8-10.1.OPT1.GR8](#)

(Linear delineation panels)

24 (November 20, 2023)

25 Use in projects where linear delineation panels will be
26 used.

27
28 Must also use [8-10.2.OPT1.GR8](#), [8-10.3.OPT1.GR8](#), [8-](#)
29 [10.4.OPT1.GR8](#), and [8-10.5.OPT1.GR8](#).

30
31 **[8-10.2.GR8](#)**

Materials

32
33 [8-10.2.INST1.GR8](#)

(Section 8-10.2 is supplemented with the following)

34 Must use once preceding any of the following:

35
36 [8-10.2.OPT1.GR8](#)

(Linear delineation panels)

37 (November 20, 2023)

38 Use in projects where linear delineation panels will be
39 used.

40
41 Must also use [8-10.1.OPT1.GR8](#), [8-10.3.OPT1.GR8](#), [8-](#)
42 [10.4.OPT1.GR8](#), and [8-10.5.OPT1.GR8](#).

43
44 **[8-10.3.GR8](#)**

Construction Requirements

45
46 [8-10.3.INST1.GR8](#)

(Section 8-10.3 is supplemented with the following)

47 Must use once preceding any of the following:

48
49 [8-10.3.OPT1.GR8](#)

(Linear delineation panels)

50 November 20, 2023)

51 Use in projects where linear delineation panels will be
52 used.

1 Must also use **8-10.1.OPT1.GR8**, **8-10.2.OPT1.GR8**, **8-**
2 **10.4.OPT1.GR8**, and **8-10.5.OPT1.GR8**.

3
4 **8-10.4.GR8** **Measurement**

5
6 **8-10.4.INST1.GR8** (Section 8-10.4 is supplemented with the following)
7 Must use once preceding any of the following:

8
9 **8-10.4.OPT1.GR8** (Linear delineation panels)
10 November 20, 2023)
11 Use in projects where linear delineation panels will be
12 used.

13
14 Must also use **8-10.1.OPT1.GR8**, **8-10.2.OPT1.GR8**, **8-**
15 **10.3.OPT1.GR8**, and **8-10.5.OPT1.GR8**.

16
17 **8-10.5.GR8** **Payment**

18
19 **8-10.5.INST1.GR8** (Section 8-10.5 is supplemented with the following)
20 Must use once preceding any of the following:

21
22 **8-10.5.OPT1.GR8** (Linear delineation panels)
23 November 20, 2023)
24 Use in projects where linear delineation panels will be
25 used.

26
27 Must also use **8-10.1.OPT1.GR8**, **8-10.2.OPT1.GR8**, **8-**
28 **10.3.OPT1.GR8**, and **8-10.4.OPT1.GR8**.

29
30 **8-11.GR8** **Guardrail**

31
32 **8-11.1.GR8** **Description**

33
34 **8-11.1.INST1.GR8** (Section 8-11.1 is supplemented with the following)
35 Must use once preceding any of the following:

36
37 **8-11.1.OPT1.GR8** (High-Tension Cable Barrier System 4 Cable)
38 (February 3, 2020)
39 Must also use **8-11.2.OPT2.FR8**, **8-11.3.OPT2.FR8**, **8-**
40 **11.4.OPT2.GR8**, **8-11.5.OPT7.GR8**, and **8-11.5.OPT8.GR8**.

41
42 **8-11.1.OPT2.GR8** (Aesthetic Treatment for Beam Guardrail)
43 (January 7, 2019)
44 Use in all projects that require Aesthetic Treatment for
45 Beam Guardrail. This replaces the use of Weathering Steel
46 Beam Guardrail.
47 Must also use **8-11.2.OPT4.GR8**, **8-11.3.OPT4.GR8**, **8-**
48 **11.4.OPT4.GR8**, and **8-11.5.OPT1.GR8**.

49
50 **8-11.1.OPT3.GR8** (Short Radius Guardrail System (SRGS))
51 (November 4, 2024)

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Use in all projects with the Short Radius Guardrail System (SRGS) ~ Type 31 Intersection Design (Standard Plan C-20.44).

Must also use **8-11.2(9-16.3(1)).OPT1.GR8**, **8-11.2(9-16.3(4)).OPT3.GR8**, **8-11.3.OPT3.FR8**, **8-11.4.OPT3.GR8**, and **8-11.5.OPT2.GR8**.

[8-11.1.OPT4.GR8](#)

(Removing High-Tension Cable Barrier)
(March 20, 2025)

Use in all projects that require removing high tension cable barrier.

Must also use **8-11.3.OPT6.GR8**, **8-11.4.OPT5.GR8**, and **8-11.5.OPT3.GR8**.

[8-11.1.OPT5.GR8](#)

(Restoring High-Tension Cable Barrier)
(March 20, 2025)

Use in all projects that reinstall or restore high tension cable barrier that has been removed.

Must also use **8-11.3.OPT7.GR8**, **8-11.4.OPT6.GR8**, and **8-11.5.OPT4.GR8**.

[8-11.2.GR8](#)

Materials

[8-11.2.INST1.GR8](#)

(Section 8-11.2 is supplemented with the following)
Must use once preceding any of the following:

[8-11.2.OPT1.FR8](#)

(High-Tension Cable Barrier Type for New Anchors)
(March 20, 2025)

Use in all projects that remove high-tension cable barrier when part of the run remains and a new anchor will need to be installed at the end.

(1 fill-in)

Fill-in #1 is the manufacturer and model of the existing cable barrier system.

[8-11.2.OPT2.FR8](#)

(High-Tension Cable Barrier System 4 Cable)
(November 20, 2023)

Must also use **8-11.1.OPT1.GR8**, **8-11.3.OPT2.FR8**, **8-11.4.OPT2.GR8**, **8-11.5.OPT7.GR8**, and **8-11.5.OPT8.GR8**.

(1 fill-in)

Fill-in #1 is the maximum allowable lateral deflection distance for the high-tension cable barrier system(s).

[8-11.2.OPT4.GR8](#)

(Aesthetic Treatment for Beam Guardrail)
(January 2, 2018)

Use in all projects that require Aesthetic Treatment for Beam Guardrail. This replaces the use of Weathering Steel Beam Guardrail.

Must also use **8-11.1.OPT2.GR8**, **8-11.3.OPT4.GR8**, **8-11.4.OPT4.GR8**, and **8-11.5.OPT1.GR8**.

1 **8-11.2(9-16.3).GR8** (Beam Guardrail)

2
3 **8-11.2(9-16.3(1)).GR8** (Rail Element)
4 (Section 9-16.3(1) is supplemented with the following)
5 Must use once preceding any of the following:
6

7 **8-11.2(9-16.3(1)).OPT1.GR8** (Short Radius Guardrail System)
8 (November 4, 2024)
9 Use in all projects with the Short Radius Guardrail System
10 (SRGS) ~ Type 31 Intersection Design (Standard Plan C-
11 20.44).
12 Must also use **8-11.1.OPT3.GR8**, **8-11.2(9-
13 16.3(4)).OPT3.GR8**, **8-11.3.OPT3.FR8**, **8-11.4.OPT3.GR8**,
14 and **8-11.5.OPT2.GR8**.
15

16 **8-11.2(9-16.3(2)).GR8** (Posts and Blocks)

17
18 **8-11.2(9-16.3(2)).INST1.GR8** (Section 9-16.3(2) is supplemented with the
19 following)
20 Must use once preceding any of the following:
21

22 **8-11.2(9-16.3(2)).OPT1.GB8** (Steel shear plates and backing plates)
23 (November 20, 2023)
24 Use in thrie beam retrofit projects with beam guardrail
25 Type Thrie Beam using timber blockouts wedged
26 between openings in existing concrete baluster rails.
27 Include with **8-11.2(9-16.3(4)).OPT1.GB8**, **8-11.2(9-
28 16.3(4)).OPT2.GB8**, **8-11.3(1)A.OPT1.GB8**, and **8-
29 11.3(1)B.OPT7.GB8**.
30

31 **8-11.2(9-16.3(2)).OPT2.GB8** (Grout)
32 (April 6, 2015)
33 Use in thrie beam retrofit projects with beam guardrail
34 Type Thrie Beam using a steel post connection to the
35 existing concrete curb or railbase. Include with **8-
36 11.2(9-16.3(4)).OPT1.GB8**, and **8-
37 11.3(1)A.OPT2.GB8**.
38

39 **8-11.2(9-16.3(2)).OPT3.GB8** (Steel Angles for Timber Blockout
40 Connection to Truss)
41 (April 6, 2015)
42 Use in thrie beam retrofit projects with beam guardrail
43 Type Thrie Beam requiring timber blockout connection
44 to existing steel truss members. Include with **8-11.2(9-
45 16.3(4)).OPT2.GB8** and other appropriate GSPs
46 supplementing Sections 8-11.2 and 8-11.3(1).
47

48 **8-11.2(9-16.3(2)).OPT4.GB8** (Beam Guardrail Type WP Thrie Beam)
49 (April 6, 2015)
50 Use in thrie beam retrofit projects with weak post thrie
51 beam guardrail retrofit (beam guardrail Type WP Thrie
52 Beam). Include with **8-11.2(9-16.3(4)).OPT2.GB8**, **8-**

1 **11.3(1)A.OPT3.GB8, 8-11.3(1)B.OPT9.GB8, 8-**
2 **11.3(1)H.OPT1.GB8, and 8-11.3(1)D.OPT1.GB8.**

3
4 [8-11.2\(9-16.3\(4\)\).GB8](#) (Hardware)
5 (Section 9-16.3(4) is supplemented with the following)
6 Must use once preceding any of the following:
7

8 [8-11.2\(9-16.3\(4\)\).OPT1.GB8](#) (Resin bonded anchors)
9 (April 6, 2015)
10 Use in thrie beam retrofit projects requiring resin
11 bonded anchors for connection to concrete baluster
12 railing end posts, and concrete curbs and railbases.
13 Include with **Either 8-11.2(9-16.3(2)).OPT1.GB8, 8-**
14 **11.2(9-16.3(4)).OPT2.GB8, 8-11.3(1)A.OPT1.GB8,**
15 **and 8-11.3(1)B.OPT7.GB8, or 8-11.2(9-**
16 **16.3(2)).OPT2.GB8 and 8-11.3(1)A.OPT2.GB8.**
17

18 [8-11.2\(9-16.3\(4\)\).OPT2.GB8](#) (Lag screws)
19 (April 6, 2015)
20 Use in thrie beam retrofit projects requiring
21 connections with lag screws to timber members and
22 blockouts.
23

24 [8-11.2\(9-16.3\(4\)\).OPT3.GR8](#) (Short Radius Guardrail System)
25 (November 4, 2024)
26 Use in all projects with the Short Radius Guardrail
27 System (SRGS) ~ Type 31 Intersection Design
28 (Standard Plan C-20.44).
29 Must also use **8-11.1.OPT3.GR8, 8-11.2(9-**
30 **16.3(1)).OPT1.GR8, 8-11.3.OPT3.FR8, 8-**
31 **11.4.OPT3.GR8, and 8-11.5.OPT2.GR8.**
32

33 **8-11.3.GR8 Construction Requirements**

34
35 [8-11.3.INST1.GR8](#) (Section 8-11.3 is supplemented with the following)
36 Must use once preceding any of the following:
37

38 [8-11.3.OPT1.FR8](#) (Installing Steel Posts on Existing Box Culverts)
39 (October 3, 2022)
40 Must also use **8-11.4.OPT1.GR8 and 8-11.5.OPT6.GR8.**
41 Use in projects requiring the construction of steel guardrail
42 posts on top of existing concrete box culverts either by
43 embedding or bolting through the culvert wall.
44 (4 fill-ins)
45 Fill-in #1 is the box culvert location SR & MP.
46 Fill-in #2 is the contact name, phone number, and address
47 for delivery of box culvert steel post assemblies.
48 Fill-in #3 is the box culvert location SR & MP.
49 Fill-in #4 is the contact name, phone number, and address
50 for delivery of box culvert steel post assemblies.
51

52 [8-11.3.OPT2.FR8](#) (High-Tension Cable Barrier System 4 Cable)
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(November 4, 2024)
Must also use **8-11.1.OPT1.GR8, 8-11.2.OPT2.FR8, 8-11.4.OPT2.GR8, 8-11.5.OPT7.GR8, and 8-11.5.OPT8.GR8.**
Fill-in is the location(s) of Contracting Agency sites to deliver complete sets of Additional High-Tension Cable Barrier Components.
(1 fill-in)

[8-11.3.OPT3.FR8](#)

(Short Radius Guardrail System)
(November 4, 2024)
Use in all projects with the Short Radius Guardrail System (SRGS) ~ Type 31 Intersection Design (Standard Plan C-20.44).
(1 fill-in)
Fill-in should be either 8-foot, 16-foot, or 24-foot radius, and the location of the system(s).

Must also use **8-11.1.OPT3.GR8, 8-11.2(9-16.3(1)).OPT1.GR8, 8-11.2(9-16.3(4)).OPT3.GR8, 8-11.4.OPT3.GR8, and 8-11.5.OPT2.GR8.**

[8-11.3.OPT4.GR8](#)

(Aesthetic Treatment for Beam Guardrail)
(January 7, 2019)
Use in all projects that require Aesthetic Treatment for Beam Guardrail. This replaces the use of Weathering Steel Beam Guardrail.
Must also use **8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-11.4.OPT4.GR8, and 8-11.5.OPT1.GR8.**

[8-11.3.OPT5.FR8](#)

(Installing Steel Posts on New Box Culverts)
(October 3, 2022)
Use in projects requiring the construction of steel guardrail posts on top of new concrete box culverts either by embedding or bolting through the culvert wall.
Must also use **8-11.4.OPT1.GR8 and 8-11.5.OPT6.GR8.**
(4 fill-ins)
Fill-in #1 is the box culvert location SR & MP.
Fill-in #2 is the contact name, phone number, and address for delivery of box culvert steel post assemblies.
Fill-in #3 is the box culvert location SR & MP.
Fill-in #4 is the contact name, phone number, and address for delivery of box culvert steel post assemblies.

[8-11.3.OPT6.GR8](#)

(Removing High-Tension Cable Barrier)
(March 20, 2025)
Use in all projects that require removing high tension cable barrier.
Must also use **8-11.1.OPT4.GR8, 8-11.4.OPT5.GR8, and 8-11.5.OPT3.GR8.**

[8-11.3.OPT7.GR8](#)

(Restoring High-Tension Cable Barrier)
(March 20, 2025)

1 Use in all projects that reinstall or restore high tension cable
2 barrier that has been removed.
3 Must also use **8-11.1.OPT5.GR8**, **8-11.4.OPT6.GR8**, and **8-**
4 **11.5.OPT4.GR8**.

5
6 **8-11.3(1).GR8** **Beam Guardrail**

7
8 **8-11.3(1).INST1.GR8** (Section 8-11.3(1) is supplemented with the following)
9 Must use once preceding any of the following:

10
11 **8-11.3(1).OPT1.GR8** Post Selection
12 (April 5, 2010)
13 Use in all projects that specifically require wood
14 guardrail posts or specifically require steel guardrail
15 posts.
16

17 **8-11.3(1)A.GR8** **Erection of Posts**

18
19 **8-11.3(1)A.INST1.GR8** (Section 8-11.3(1)A is supplemented with the following)
20 Must use once preceding any of the following:

21
22 **8-11.3(1)A.OPT1.GB8** (Timber Blockouts for Beam Guardrail
23 Type Thrie Beam)
24 (April 6, 2015)
25 Use in thrie beam retrofit projects with beam
26 guardrail Type Thrie Beam using timber
27 blockouts wedged between openings in existing
28 concrete baluster rails. Include with **8-11.2(9-**
29 **16.3(2)).OPT1.GB8**, **8-11.2(9-**
30 **16.3(4)).OPT1.GB8**, **8-11.2(9-**
31 **16.3(4)).OPT2.GB8**, and **8-11.3(1)B.OPT7.GB8**.

32
33 **8-11.3(1)A.OPT2.GB8** (Steel Posts for Beam Guardrail Type
34 Thrie Beam)
35 (January 4, 2016)
36 Use in thrie beam retrofit projects with beam
37 guardrail Type Thrie Beam using a steel post
38 connection to the existing concrete curb or
39 railbase. Include with **8-11.2(9-**
40 **16.3(2)).OPT2.GB8**, **8-11.2(9-**
41 **16.3(4)).OPT1.GB8**, and **8-11.3(1)A.OPT2.GB8**.

42
43 **8-11.3(1)A.OPT3.GB8** (Beam Guardrail Type WP Thrie Beam)
44 (September 8, 2020)
45 Include in thrie beam retrofit projects with weak
46 post thrie beam guardrail retrofit (beam guardrail
47 Type WP Thrie Beam). Include with **8-11.2(9-**
48 **16.3(2)).OPT4.GB8**, **8-11.2(9-**
49 **16.3(4)).OPT2.GB8**, **8-11.3(1)B.OPT9.GB8**, **8-**
50 **11.3(1)H.OPT1.GB8**, and **8-**
51 **11.3(1)D.OPT1.GB8**.

52 **8-11.3(1)B.GR8** **Erection of Rail**

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8-11.3(1)B.INST1.GR8 (Section 8-11.3(1)B is supplemented with the following)

Must use once preceding any of the following:

8-11.3(1)B.OPT6.GB8 (Field Measuring to Existing Type 3 Anchors)
(April 6, 2015)
Include in thrie beam retrofit projects when existing Type 3 anchors are being salvaged for reuse as part of the retrofitted guardrail system.

8-11.3(1)B.OPT7.GB8 (Attaching Beam Guardrail Type Thrie Beam to Timber Blockouts)
(April 6, 2015)
Use in thrie beam retrofit projects with beam guardrail Type Thrie Beam using timber blockouts wedged between openings in existing concrete baluster rails. Include with **8-11.2(9-16.3(2)).OPT1.GB8**, **8-11.2(9-16.3(4)).OPT1.GB8**, **8-11.2(9-16.3(4)).OPT2.GB8**, and **8-11.3(1)A.OPT1.GB8**.

8-11.3(1)B.OPT8.GB8 (Thrie Beam Expansion Joint Element)
(September 13, 2021)
Use in projects where the guardrail elements are continuous across interior bridge expansion joints. Contact HQ Design for the thrie beam expansion joint element detail to include in the project plans

8-11.3(1)B.OPT9.GB8 (Beam Guardrail Type WP Thrie Beam)
(April 6, 2015)
Include in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie Beam). Include with **8-11.2(9-16.3(2)).OPT4.GB8**, **8-11.2(9-16.3(4)).OPT2.GB8**, **8-11.3(1)A.OPT3.GB8**, **8-11.3(1)H.OPT1.GB8**, and **8-11.3(1)D.OPT1.GB8**.

8-11.3(1)D.GR8 Removing Guardrail

8-11.3(1)D.INST1.GR8 (Section 8-11.3(1)D is supplemented with the following)
Must use once preceding any of the following:

8-11.3(1)D.OPT1.GB8 (Beam Guardrail Type WP Thrie Beam)
(September 8, 2020)
Include in thrie beam retrofit projects with weak post thrie beam guardrail retrofit (beam guardrail Type WP Thrie Beam). Include with **8-11.2(9-16.3(2)).OPT4.GB8**, **8-11.2(9-16.3(4)).OPT2.GB8**, **8-**

1 11.3(1)A.OPT3.GB8, 8-11.3(1)B.OPT9.GB8, and 8-
2 11.3(1)H.OPT1.GB8.
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4 **8-11.3(1)H.GR8** **Guardrail Construction Exposed to Traffic**

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6 **8-11.3(1)H.INST1.GR8** (Section 8-11.3(1)H is supplemented with the following)
7 Must use once preceding any of the following:
8

9 **8-11.3(1)H.OPT1.GB8** (Beam Guardrail Type WP Thrie Beam)
10 (April 6, 2015)
11 Include in thrie beam retrofit projects with weak post
12 thrie beam guardrail retrofit (beam guardrail Type WP
13 Thrie Beam). Include with **8-11.2(9-
14 16.3(2)).OPT4.GB8, 8-11.2(9-16.3(4)).OPT2.GB8, 8-
15 11.3(1)A.OPT3.GB8, 8-11.3(1)B.OPT9.GB8, and 8-
16 11.3(1)D.OPT1.GB8.**
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18 **8-11.4.GR8** **Measurement**

19
20 **8-11.4.INST1.GR8** (Section 8-11.4 is supplemented with the following)
21 Must use once preceding any of the following:
22

23 **8-11.4.OPT1.GR8** (Box Culvert Guardrail Steel Posts)
24 (October 3, 2022)
25 **Must include with 8-11.3.OPT1.FR8 or 8-11.3.OPT5.FR8,**
26 **and 8-11.5.OPT6.GR8.**
27 Use in projects requiring the construction of steel guardrail
28 posts on top of existing or new concrete box culverts.
29

30 **8-11.4.OPT2.GR8** (High-Tension Cable Barrier System 4 Cable)
31 (February 3, 2020)
32 Must also use **8-11.1.OPT1.GR8, 8-11.2.OPT2.FR8, 8-
33 11.3.OPT2.FR8, 8-11.5.OPT7.GR8, and 8-11.5.OPT8.GR8.**
34

35 **8-11.4.OPT3.GR8** (Short Radius Guardrail System)
36 (November 4, 2024)
37 Use in all projects with the Short Radius Guardrail System
38 (SRGS) ~ Type 31 Intersection Design (Standard Plan C-
39 20.44).
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41 Must also use **8-11.1.OPT3.GR8, 8-11.2(9-
42 16.3(1)).OPT1.GR8, 8-11.2(9-16.3(4)).OPT3.GR8, 8-
43 11.3.OPT3.FR8, and 8-11.5.OPT2.GR8.**
44

45 **8-11.4.OPT4.GR8** (Aesthetic Treatment for Beam Guardrail)
46 (April 2, 2018)
47 Use in all projects that require Aesthetic Treatment for
48 Beam Guardrail.
49 Must also use **8-11.1.OPT2.GR8, 8-11.2.OPT4.GR8, 8-
50 11.3.OPT4.GR8, and 8-11.5.OPT1.GR8.**
51

52 **8-11.4.OPT5.GR8** (Removing High-Tension Cable Barrier)
53 (March 20, 2025)

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Use in all projects that require removing high tension cable barrier.
Must also use **8-11.1.OPT4.GR8**, **8-11.3.OPT6.GR8**, and **8-11.5.OPT3.GR8**.

[8-11.4.OPT6.GR8](#)

(Restoring High-Tension Cable Barrier)
(March 20, 2025)
Use in all projects that reinstall or restore high tension cable barrier that has been removed.
Must also use **8-11.1.OPT5.GR8**, **8-11.3.OPT7.GR8**, and **8-11.5.OPT4.GR8**.

[8-11.5.GR8](#)

Payment

[8-11.5.INST2.GR8](#)

(Section 8-11.5 is supplemented with the following)
Must use once preceding any of the following:

[8-11.5.OPT1.GR8](#)

(Aesthetic Treatment for Beam Guardrail)
(April 2, 2018)
Use in all projects that require Aesthetic Treatment for Beam Guardrail.
Must also use **8-11.1.OPT2.GR8**, **8-11.2.OPT4.GR8**, **8-11.3.OPT4.GR8**, and **8-11.4.OPT4.GR8**.

[8-11.5.OPT2.GR8](#)

(Short Radius Guardrail System)
(November 4, 2024)
Use in all projects with the Short Radius Guardrail System (SRGS) ~ Type 31 Intersection Design (Standard Plan C-20.44).

Must also use **8-11.1.OPT3.GR8**, **8-11.2(9-16.3(1)).OPT1.GR8**, **8-11.2(9-16.3(4)).OPT3.GR8**, **8-11.3.OPT3.FR8**, and **8-11.4.OPT3.GR8**.

[8-11.5.OPT3.GR8](#)

(Removing High-Tension Cable Barrier)
(March 20, 2025)
Use in all projects that require removing high tension cable barrier.
Must also use **8-11.1.OPT4.GR8**, **8-11.3.OPT6.GR8**, and **8-11.4.OPT5.GR8**.

[8-11.5.OPT4.GR8](#)

(Restoring High-Tension Cable Barrier)
(March 20, 2025)
Use in all projects that reinstall or restore high tension cable barrier that has been removed.
Must also use **8-11.1.OPT5.GR8**, **8-11.3.OPT7.GR8**, and **8-11.4.OPT6.GR8**.

[8-11.5.OPT6.GR8](#)

(Box Culvert Guardrail Steel Posts)
(October 3, 2022)
Use in projects requiring the construction of steel guardrail posts on top of existing or new concrete box culverts.

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Must include with **8-11.3.OPT1.FR8** or **8-11.3.OPT5.FR8**, and **8-11.4.OPT1.GR8**.

[8-11.5.OPT7.GR8](#)

(High-Tension Cable Barrier)
(February 3, 2020)

Must also use **8-11.1.OPT1.GR8**, **8-11.2.OPT2.FR8**, **8-11.3.OPT2.FR8**, **8-11.4.OPT2.GR8** and **8-11.5.OPT8.GR8**.

[8-11.5.OPT8.GR8](#)

(Additional High-Tension Cable Barrier Components)
(February 3, 2020)

Must also use **8-11.1.OPT1.GR8**, **8-11.2.OPT2.FR8**, **8-11.3.OPT2.FR8**, **8-11.4.OPT2.GR8** and **8-11.5.OPT7.GR8**. No Federal funding participation. Must be in state funds group.

[8-12.GR8](#)

Chain Link Fence and Wire Fence

[8-12.2.GR8](#)

Materials

[8-12.2.INST1.GR8](#)

(Section 8-12.2 is supplemented with the following)
Must use once preceding any of the following:

[8-12.2.OPT1.FR8](#)

(Coated chain link fence)
(September 8, 2020)
Use in projects requiring the construction of coated chain link fence. Must include **8-12.5.OPT1.GR8**.
(1 fill-in)

[8-12.5.GR8](#)

Payment

[8-12.5.INST1.GR8](#)

(Section 8-12.5 is supplemented with the following)
Must use once preceding any of the following:
Must use once preceding any of the following:

[8-12.5.OPT1.GR8](#)

(Coated chain link fence)
(April 1, 2002)
Use in projects requiring the construction of coated chain link fence.

[8-13.GR8](#)

Monument Cases

[8-13.1.GR8](#)

Description

[8-13.1.INST1.GR8](#)

(Section 8-13.1 is deleted and replaced by the following)
Must use once preceding any of the following:

[8-13.1.OPT1.GR8](#)

(Monument pipes included in work)
(March 13, 1995)
Must also use **8-13.2.OPT1.GR8**, **8-13.4.OPT1.GR8** and **8-13.5.OPT1.GR8**.
Use in projects requiring that the monument pipes be installed by the Contractor.

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8-13.2.GR8

Materials

8-13.2.INST1.GR8

(Section 8-13.2 is supplemented with the following)
Must use once preceding any of the following:

8-13.2.OPT1.GR8

(Monument pipes included in work)
(March 13, 1995)
Must include with **8-13.1.OPT1.GR8**.
Use in projects requiring that the monument pipes be installed by the Contractor.

8-13.3.GR8

Construction Requirements

8-13.3(1).GR8

Monument Case and Cover

8-13.3(1).INST1.GR8

(The last paragraph of Section 8-13.3(1) is revised to read)
Must use once preceding any of the following:

8-13.3(1).OPT1.GR8

(Monument pipes included in work)
(March 13, 1995)
Use in projects requiring that the monument pipes be installed by the Contractor.
Must include with **8-13.1.OPT1.GR8**.

8-13.3(2).GR8

Adjust Monument Case and Cover

8-13.3(2)B.GR8

Reinstalling Monument Case and Cover

8-13.3(2)B.INST1.GR8

(The first sentence of Section 8-13.3(2)B is revised to read)
Must use once preceding any of the following:

8-13.3(2)B.OPT1.GR8

(October 3, 2022)
Use in projects where it is desired to reinstall the monument case ¼" lower than grade, such as routes that are subjected to frequent snow plowing.

8-13.4.GR8

Measurement

8-13.4.INST1.GR8

(Section 8-13.4 is deleted and replaced by the following)
Must use once preceding any of the following:

8-13.4.OPT1.GR8

(Monument pipes included in work)
(March 13, 1995)
Must include with **8-13.1.OPT1.GR8**.
Use in projects requiring that the monument pipes be installed by the Contractor.

8-13.5.GR8

Payment

8-13.5.INST1.GR8

(Section 8-13.5 is supplemented with the following)
Must use once preceding any of the following:

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2 [8-13.5.OPT1.GR8](#)

(Monument pipes included in work)
(April 28, 1997)

3
4 Must include with **8-13.1.OPT1.GR8**.

5 Use in projects requiring that the monument pipes be
6 installed by the Contractor.
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8 **[8-14.GR8](#)**

Cement Concrete Sidewalks

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10 **[8-14.2.GR8](#)**

Materials

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12 [8-14.2\(9-19.1\).GR8](#)

(Surface Applied Detectable Warning Surface)

13
14 [8-14.2\(9-19.1\(1\)\).GR8](#)

(General Requirements)

15 (The first paragraph of Section 9-19.1(1) is revised to
16 read)

17 Must use once preceding any of the following:

18
19 [8-14.2\(9-29.1\(1\)\).OPT1.FR8](#)

(Alternative color for detectable warning
20 surfaces)

21 (October 3, 2022)

22 Use in projects where the color for detectable
23 warning surfaces will not be yellow.

24 (1 fill-in)

25 Fill-in #1 is the color of the detectable warning
26 surface.
27

28 [8-14.2\(9-19.2\).GR8](#)

(Cast-in-Place Detectable Warning Surface)

29
30 [8-14.2\(9-19.2\(1\)\).GR8](#)

(General Requirements)

31 (The first paragraph of Section 9-19.2(1) is revised to
32 read)

33 Must use once preceding any of the following:

34
35 [8-14.2\(9-29.2\(1\)\).OPT1.FR8](#)

(Alternative color for detectable warning
36 surfaces)

37 (October 3, 2022)

38 Use in projects where the color for detectable
39 warning surfaces will not be yellow.

40 (1 fill-in)

41 Fill-in #1 is the color of the detectable warning
42 surface.
43
44

45 **[8-14.3.GR8](#)**

Construction Requirements

46
47 [8-14.3.INST1.GR8](#)

(Section 8-14.3 is supplemented with the following)

48 Must use once preceding any of the following:

49
50 [8-14.3.OPT1.GR8](#)

(Pre-construction meeting for cement concrete sidewalks,
51 curb ramps or other pedestrian access routes to discuss
52 ADA issues before Work begins)

53 (October 3, 2022)

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Use in projects where pedestrian access route Work (cement concrete sidewalks, curb ramps or other pedestrian access) is proposed and it is felt that a pre-construction meeting is needed by Region Construction Office to discuss ADA compliance.

[8-14.3.OPT2.GR8](#)

(Timing Restrictions)
(January 7, 2019)
Use in all projects that require any ADA Feature work where the closure of pedestrian routes is subject to time restrictions.
Must use with **1-05.4.OPT4.GR8**, and **8-14.3.OPT3.GR8**.

[8-14.3.OPT3.GR8](#)

(Layout and Conformance to Grades)
(January 7, 2019)
Use in all projects that require any ADA Feature work. Use with **1-05.4.OPT4.GR8**.

[8-15.GR8](#) **Riprap**

[8-15.4.GR8](#) **Measurement**

[8-15.4.INST1.GR8](#) (Section 8-15.4 is supplemented with the following)
Must use once preceding any of the following:

[8-15.4.OPT3.GR8](#) (Special excavation)
(March 13, 1995)
Must also use **8-15.5.OPT8.GR8**.
Use in projects requiring excavation outside the limits of structure excavation for riprap at bridge piers located within streams.

[8-15.4.OPT5.GR8](#) (Excavation for riprap is included in cost of riprap)
(The last paragraph of Section 8-14.5 is deleted)
(February 5, 2001)
Must also use **8-15.5.OPT1.GR8**.
Use in projects with small quantities of riprap or upon recommendation of the Construction and Materials Division.

[8-15.5.GR8](#) **Payment**

[8-15.5.INST1.GR8](#) (The first sentence of the second paragraph of Section 8-15.5 is revised to read)
Must use once preceding any of the following:

[8-15.5.OPT1.GR8](#) (Excavation for riprap is included in cost of riprap)
(March 13, 1995)
Must include with **8-15.4.OPT5.GR8**.
Use in projects with small quantities of riprap or upon recommendation of the Construction and Materials Division.

[8-15.5.INST2.GR8](#) (Section 8-15.5 is supplemented with the following)

1 Must use once preceding the following:
2

3 [8-15.5.OPT8.GR8](#)

(Special excavation)
(September 30, 1996)

4 Must include with **8-15.4.OPT3.GR8**.

5 Use in projects requiring excavation outside the limits of
6 structure excavation for riprap at bridge piers located
7 within streams.
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10 [8-16.GR8](#)

Concrete Slope Protection

11 [8-16.3.GR8](#)

Construction Requirements

12 [8-16.3\(2\).GR8](#)

Placing Semi-Open Concrete Masonry Units

13 [8-16.3\(2\).INST1.GR8](#)

(Section 8-16.3(2) is supplemented with the following)
14 Must use once preceding any of the following:

15 [8-16.3\(2\).OPT1.GR8](#)

(Requirements for semi-open precast masonry units)
(December 19, 2005)

16 Must include with **8-16.5.OPT1.GR8**.

17 Use in projects requiring semi-open concrete masonry
18 slope protection.
19

20 [8-16.5.GR8](#)

Payment

21 [8-16.5.INST1.GR8](#)

(Section 8-16.5 is supplemented with the following)
22 Must use once preceding any of the following:

23 [8-16.5.OPT1.GR8](#)

(Semi-open Conc. Masonry Slope Protection)
(September 30, 1996)

24 Must include with **8-16.3(2).OPT1.GR8**.

25 Use in projects requiring semi-open concrete masonry
26 slope protection.
27

28 [8-20.GR8](#)

**Illumination, Traffic Signal Systems, Intelligent Transportation
29 Systems, and Electrical**

30 [8-20.2.GR8](#)

Materials

31 [8-20.2.INST1.GR8](#)

(Section 8-20.2 is supplemented with the following)
32 Must use once preceding any of the following:

33 [8-20.2.OPT1.GB8](#)

(Traffic Signal Shaft Foundation Shaft Casing and
Slurry)
(April 6, 2015)

34 Use in traffic signal projects with shaft foundations in weak
35 soils, with the concurrence of the State Geotechnical
36 Office. Include with **8-20.3(4).OPT1.FB8** and **8-
37 20.5.OPT1.GB8**.
38

39 [8-20.2\(9-29.1\).GR8](#)

(Conduit, Innerduct, and Outerduct)

40 [8-20.2\(9-29.1\(11\)\).GR8](#) (Foam Conduit Sealant)
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(Section 9-29.1(11) is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.1\(11\)\).OPT1.GR8](#) (January 7, 2019)

Use in projects where new conduit is installed, wiring is added to existing conduit, or wiring is removed from existing conduit.

[8-20.2\(9-29.2\).GR8](#) (Junction Boxes, Cable Vaults, and Pull Boxes)
(Section 9-29.2 is supplemented with the following):
Must use once preceding any of the following:

[8-20.2\(9-29.2\).OPT1.GR8](#) (Slip-Resistant Surfacing)
(September 3, 2019)

Use in projects where junction boxes, cable vaults, pull boxes, or Structure mounted boxes require slip-resistant surfacing.

[8-20.2\(9-29.6\).GR8](#) (Light and Signal Standards)
(Section 9-29.6 is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.6\).OPT1.GR8](#) Light Standards With Type 1 Luminaire Arms
(January 6, 2025)

Use in projects requiring Type 1 luminaire arms and the Engineer is not required to verify the H1 distances shown in the Plans.

[8-20.2\(9-29.6\).OPT2.GR8](#) Light Standards With Type 1 Luminaire Arms
(January 6, 2025)

Use in projects requiring Type 1 luminaire arms and H1 distances are not shown in the Plans or the Engineer is required to verify the H1 distances shown in the Plans.

[8-20.2\(9-29.6\).OPT5.GR8](#) Traffic Signal Standards
(January 6, 2025)

Use in projects requiring traffic signal standards, or combination traffic signal/light standards with Type 1 luminaire arms, or both.

[8-20.2\(9-29.6\(3\)\).GR8](#) (Timber Light Standards, Timber Strain Poles, Timber Service Supports)
(Section 9-29.6(3) is supplemented with the following)
Must use preceding the following:

[8-20.2\(9-29.6\(3\)\).OPT1.GR8](#) (November 20, 2023)
Use in all projects with timber poles.

[8-20.2\(9-29.6\(5\)\).GR8](#) (Foundation Hardware)
(Section 9-29.6(5) is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.6\(5\)\).OPT1.GR8](#) (January 13, 2021)

Use in all projects where light standards are to be installed on Traffic Barrier.

[8-20.2\(9-29.13\).GR8](#) (Control Cabinet Assemblies)
(Section 9-29.13 is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.13\).OPT1.GR8](#) Uninterruptible Power Supply (UPS)
(January 2, 2018)
With Region Traffic Engineer approval, use in projects where Uninterruptible Power Supply (UPS) cabinets are required.

[8-20.2\(9-29.13\(10\)\).GR8](#)(NEMA and Type 2070 Controllers and Cabinets)

[8-20.2\(9-29.13\(10\)D\).GR8](#)(Cabinets for Type 2070 Controllers)

[8-20.2\(9-29.13\(10\)D\).INST2.GR8](#) (9-29.13(10)D is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.13\(10\)D\).OPT2.GR8](#) (February 6, 2023)
Use in all projects where removable cabinet door handles are required.

[8-20.2\(9-29.13\(11\)\).GR8](#)(Traffic Data Accumulator and Ramp Meters)
(Section 9-29.13(11) is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.13\(11\)\).OPT1.GR8](#) (November 20, 2023)
Use in all projects where a Ramp Meter or ITS Data Station controller is required.

[8-20.2\(9-29.13\(11\)\).OPT2.GR8](#) (February 6, 2023)
Use in all projects where removable cabinet door handles are required.

[8-20.2\(9-29.13\(12\)\).GR8](#)(Type 331L ITS Cabinet)

[8-20.2\(9-29.13\(12\)\).INST2.GR8](#) (Item 3 of Section 9-29.13(12) is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.13\(12\)\).OPT2.GR8](#) (February 6, 2023)
Use in all projects where removable cabinet door handles are required.

[8-20.2\(9-29.15\).GR8](#) (Flashing Beacon Control)
(Section 9-29.15 is supplemented with the following)
Must use once preceding any of the following:

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[8-20.2\(9-29.15\).OPT1.GR8](#) Rapid Flashing Beacons (RFB)
(January 7, 2019)
Use in projects where Rectangular Rapid Flashing
Beacons (RRFBs) are required.

[8-20.2\(9-29.19\).GR8](#) (Pedestrian Push Buttons)
(Section 9-29.19 is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(9-29.19\).OPT1.GR8](#) Accessible Pedestrian Signal (APS) Pushbuttons
(November 4, 2024)
Use in projects requiring accessible pedestrian signal
(APS) pushbuttons. Do not use for RRFB system
pushbuttons.

[8-20.2\(9-29.24\).GR8](#) (Service Cabinets)
(Item 3 of Section 9-29.24 is supplemented with the
following)
Must use once preceding any of the following:

[8-20.2\(9-29.24\).OPT1.GR8](#) (February 6, 2023)
Use in all projects where removable cabinet door
handles are required.

[8-20.2\(9-29.25\).GR8](#) (Amplifier, Transformer, and Terminal Cabinets)
(Item 3 of Section 9-29.25 is supplemented with the
following)
Must use once preceding any of the following:

[8-20.2\(9-29.25\).OPT1.GR8](#) (February 6, 2023)
Use in all projects where removable cabinet door
handles are required.

[8-20.2\(1\).GR8](#) Equipment List and Drawings

[8-20.2\(1\).INST1.GR8](#) (Section 8-20.2(1) is supplemented with the following)
Must use once preceding any of the following:

[8-20.2\(1\).OPT1.GR8](#) (Light standards when H1 dimension is
shown on the Plans)
(March 13, 1995)
Use in projects with illumination systems and the
lighting standard H1 dimension is shown in the Plans
and verification by the Engineer is not required prior to
fabrication.

[8-20.2\(1\).OPT2.GR8](#) (Light standards when H1 dimension is not
Shown on the Plans or must be verified prior to
fabrication)
(March 13, 1995)
Use in projects with illumination systems and the
lighting standard H1 dimension is not shown in the

Plans or the dimension shown in the Plans must be verified by the Engineer prior to fabrication.

[8-20.2\(1\).OPT3.GR8](#) (Traffic signal standards, strain pole standards or combination traffic signal/lighting standards) (March 13, 1995)
Use in projects with traffic signal systems when standards are to be installed.

[8-20.3.GR8](#) Construction Requirements

[8-20.3\(1\).GR8](#) General

[8-20.3\(1\).INST1.GR8](#) (Section 8-20.3(1) is supplemented with the following)
Must use once preceding any of the following:

[8-20.3\(1\).OPT1.FR8](#) (Salvaged Equipment) (November 20, 2023)
Use in projects with equipment to be removed which will stay the property of WSDOT.
(Five fill-ins).

[8-20.3\(4\).GR8](#) Foundations

[8-20.3\(4\).INST1.GR8](#) (Section 8-20.3(4) is supplemented with the following)
Must use once preceding any of the following:

[8-20.3\(4\).OPT1.FB8](#) (Shafts for Signal Standard Foundations) (August 7, 2017)
Use in traffic signal projects with shaft foundations in weak soils, with the concurrence of the State Geotechnical Office. The fill-in specifies the location(s) of the shaft(s) requiring construction under these construction requirements. Include with **8-20.2.OPT1.GB8** and **8-20.5.OPT1.GB8**.
(One fill-in).

[8-20.3\(5\).GR8](#) Conduit

[8-20.3\(5\)E.GR8](#) Method of Conduit Installation

[8-20.3\(5\)E.INST1.GR8](#) (Section 8-20.3(5)E is supplemented with the following)
Must use once preceding any of the following:

[8-20.3\(5\)E.OPT1.GR8](#) (CDF Encased ITS Conduit) (February 6, 2023)
Use in projects where 4-inch ITS conduits are required to be encased in Controlled Density Fill (CDF) when installed by open trenching.

[8-20.3\(8\).GR8](#) Wiring

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[8-20.3\(8\).INST1.GR8](#) (Section 8-20.3(8) is supplemented with the following)
Must use once preceding any of the following:

[8-20.3\(8\).OPT1.GR8](#) Field Wiring Chart
(March 13, 1995)
Use in projects with traffic signal systems.

[8-20.3\(14\).GR8](#) Signal Systems

[8-20.3\(14\)A.GR8](#) Signal Controllers

[8-20.3\(14\)A.INST1.GR8](#) (Section 8-20.3(14)A is supplemented with the following)
Must use once preceding any of the following:

[8-20.3\(14\)A.OPT1.GR8](#) Testing
(August 2, 2010)
Use in projects with Contractor furnished signal controllers.

[8-20.5.GR8](#) Payment

[8-20.5.INST1.GR8](#) (Section 8-20.5 is supplemented with the following)
Must use once preceding any of the following:

[8-20.5.OPT1.GB8](#) (Removing Traffic Signal Shaft Obstructions)
(April 6, 2015)
Use in traffic signal projects with shaft foundations in weak soils, with the concurrence of the State Geotechnical Office. Include with **8-20.2.OPT1.GB8** and **8-20.3(4).OPT1.FB8**.

[8-21.GR8](#) Permanent Signing

[8-21.2.GR8](#) Materials

[8-21.2\(9-06.16\).GR8](#) (Roadside Sign Structures)
(Section 9-06.16 is supplemented with the following)
Must use once preceding the following:

[8-21.2\(9-06.16\).OPT1.GR8](#) (January 3, 2011)
Use in projects with perforated steel square sign posts.

[8-21.2\(9-28.11\).GR8](#) (Hardware)
(Section 9-28.11 is supplemented with the following)
Must use once preceding any of the following:

[8-21.2\(9-28.11\).OPT1.GB8](#) (Overhead Sign Structure Locknuts)
(August 3, 2015)
Use in all projects with overhead sign structures (sign bridge, cantilever sign structure, bridge mounted sign bracket).

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[8-21.2\(9-28.14\).GR8](#) (Sign Support Structures)
(Section 9-28.14 is supplemented with the following)
Must use once preceding any of the following:

[8-21.2\(9-28.14\).OPT6.GR8](#) (Roadside Signing Material and Fabrication)
(September 8, 2020)
Use in all projects that have steel sign supports.

8-21.3.GR8 Construction Requirements

8-21.3(9).GR8 Sign Structures

8-21.3(9)A.GR8 Fabrication of Sign Structures

8-21.3(9)A1.GR8 Fabrication of Monotube Sign Bridges and Cantilever Sign Structures

[8-21.3\(9\)A1.INST1.GR8](#) (Section 8-21.3(9)A1 is supplemented with the following)
Must use once preceding any of the following:

[8-21.3\(9\)A1.OPT1.FB8](#) (Non-Conventional Paint Color)
(September 8, 2020)
Use in projects with monotube sign bridges and/or monotube cantilever sign structures painted a color other than the conventionally specified gray color. Include with **8-21.4.OPT1.FB8**. The fill-in specifies the SAE AMS Standard 595 color number, or the color name if no number.
(1 fill-in)

8-21.3(9)E.GR8 Bridge Mounted Sign Brackets

[8-21.3\(9\)E.INST1.GR8](#) (Section 8-21.3(9)E is supplemented with the following)
Must use once preceding any of the following:

[8-21.3\(9\)E.OPT1.FB8](#) (Bridge Mounted Sign Brackets)
(November 20, 2023)
Use in projects with bridge mounted sign brackets. The first and third fill-ins specify the sign bracket number(s). The second fill-in itemizes the structural carbon steel quantity for each sign bracket. The fourth fill-in specifies the quantity of hole drilling required for the resin bonded anchors for each sign bracket.
(4 fill-ins)

8-21.3(9)F.GR8 Foundations

8-21.3(9)F1.GR8 Fabrication of Monotube Sign Bridges and Cantilever Sign Structures

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[8-21.3\(9\)F1.INST1.GR8](#) (Section 8-21.3(9)F1 is supplemented with the following)

Must use once preceding any of the following:

[8-21.3\(9\)F1.OPT1.FB8](#) (Temporary Casing Requirements)
(September 8, 2020)

Use in sign structure projects with shaft foundations where the shaft diameter is 48 inches or greater, or where the shaft depth is 15 feet or greater, or where the State Geotechnical Office identifies the foundation soils as sufficiently weak to require use of this specification. The fill-in specifies the location(s) of the shaft(s) requiring construction under these construction requirements.
(1 fill-in)

[8-21.4.GR8](#) Measurement

[8-21.4.INST1.GR8](#) (Section 8-21.4 is supplemented with the following)
Must use once preceding any of the following:

[8-21.4.OPT1.FB8](#) (Monotube Sign Structures)
(September 8, 2020)

Use in projects with monotube sign bridges and/or monotube cantilever sign structures. The first fill in specifies the type of sign structure work included (sign bridge or cantilever sign structure or both). The second fill-in itemizes the quantities and work involved with each sign structure.
(2 fill-ins)

[8-22.GR8](#) Pavement Marking

[8-22.4.GR8](#) Measurement

[8-22.4.INST1.GR8](#) (The sixth paragraph of Section 8-22.4 is revised to read)
Must use once preceding any of the following:

[8-22.4.OPT1.2026.GR8](#) (Wide Dotted Entry Line)
(November 4, 2024)
Use in projects with Wide Dotted Entry Line.

[8-23.GR8](#) Temporary Pavement Markings

[8-23.2.GR8](#) Materials

[8-23.2\(9-34\).GR8](#) (Pavement Marking Material)
(Section 9-34 is supplemented with the following)
Must use once preceding any of the following:

1 [8-23.2\(9-34\).OPT1.GR8](#) (October 3, 2022)
2 Consider including temporary adhesive transverse
3 rumble strips when a project has temporary signals on
4 two lane highways. Use in all projects when temporary
5 adhesive Rumble Strips are shown on the traffic
6 control plans. Must also include **8-**
7 **23.3(4)A.OPT1.GR8**, **8-23.4.OPT1.GR8**, and **8-**
8 **23.5.OPT1.GR8**.

9
10 **[8-23.3.GR8](#)** **Construction Requirements**

11
12 **[8-23.3\(4\).GR8](#)** **Pavement Marking Application**

13
14 **[8-23.3\(4\)A.GR8](#)** **Temporary Pavement Markings – Short Duration**

15
16 [8-23.3\(4\)A.INST1.GR8](#) (Section 8-23.3(4)A is supplemented with the
17 following)
18 Must use once preceding any of the following:

19
20 [8-23.3\(4\)A.OPT1.GR8](#) (Temporary Adhesive Transverse Rumble Strips)
21 (October 3, 2022)
22 Consider including temporary adhesive
23 transverse rumble strips when a project has
24 temporary signals on two lane highways. Use in
25 all projects when temporary adhesive Rumble
26 Strips are shown on the traffic control plans. Must
27 also include **8-23.2(9-34).OPT1.GR8**, **8-**
28 **23.4.OPT1.GR8**, and **8-23.5.OPT1.GR8**.

29
30 **[8-23.4.GR8](#)** **Measurement**

31
32 [8-23.4.INST1.GR8](#) (Section 8-23.4 is supplemented with the following)
33 Must use once preceding any of the following:

34
35 [8-23.4.OPT1.GR8](#) (Temporary Adhesive Transverse Rumble Strips)
36 (October 3, 2022)
37 Consider including temporary adhesive transverse rumble
38 strips when a project has temporary signals on two lane
39 highways. Use in all projects when temporary adhesive
40 Rumble Strips are shown on the traffic control plans. Must
41 also include **8-23.2(9-34).OPT1.GR8**, **8-**
42 **23.3(4)A.OPT1.GR8**, and **8-23.5.OPT1.GR8**.

43
44 **[8-23.5.GR8](#)** **Payment**

45
46 [8-23.5.INST1.GR8](#) (Section 8-23.5 is supplemented with the following)
47 Must use once preceding any of the following:

48
49 [8-23.5.OPT1.GR8](#) (Temporary Adhesive Transverse Rumble Strips)
50 (October 3, 2022)
51 Consider including temporary adhesive transverse rumble
52 strips when a project has temporary signals on two lane
53 highways. Use in all projects when temporary adhesive

Rumble Strips are shown on the traffic control plans. Must also include **8-23.2(9-34).OPT1.GR8**, **8-23.3(4)A.OPT1.GR8**, and **8-23.4.OPT1.GR8**.

8-24.GR8 **Rock and Gravity Block Wall, and Gabion Cribbing**

8-24.2.GR8 **Materials**

8-24.2.INST1.GR8 (Section 8-24.2 is supplemented with the following)
Must use once preceding any of the following:

8-24.2.OPT1.GR8 (Gravity Block Wall)
(November 2, 2022)
Use in projects constructing gravity block walls. Include with **8-24.3(2).OPT1.GR8**.

8-24.3.GR8 **Construction Requirements**

8-24.3(2).GR8 **Gravity Block Wall**

8-24.3(2).INST1.GR8 (Section 8-24.3(2) is supplemented with the following)
Must use once preceding any of the following:

8-24.3(2).OPT1.GR8 (Gravity Block Wall)
(January 7, 2002)
Use in projects constructing gravity block walls. Include with **8-24.2.OPT1.GR8**.

8-25.GR8 **Glare Screen**

8-25.1.GR8 **Description**

8-25.1.INST1.GR8 (Section 8-25.1 is supplemented with the following)
Must use once preceding any of the following:

8-25.1.OPT1.GR8 (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, 8-25.4.OPT1.GR8, and 8-25.5.OPT1.GR8.

8-25.2.GR8 **Materials**

8-25.2.INST1.GR8 (Section 8-25.2 is supplemented with the following)
Must use once preceding any of the following:

8-25.2.OPT1.GR8 (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
Must use with **8-25.1.OPT1.GR8, 8-25.3.OPT1.GR8, 8-25.4.OPT1.GR8, and 8-25.5.OPT1.GR8.**

8-25.3.GR8 **Construction Requirements**

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[8-25.3.INST1.GR8](#) (Section 8-25.3 is supplemented with the following)
Must use once preceding any of the following:

[8-25.3.OPT1.GR8](#) (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.4.OPT1.GR8, and 8-25.5.OPT1.GR8.

[8-25.4.GR8](#) Measurement

[8-25.4.INST1.GR8](#) (Section 8-25.4 is supplemented with the following)
Must use once preceding any of the following:

[8-25.4.OPT1.GR8](#) (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, and 8-25.5.OPT1.GR8.

[8-25.5.GR8](#) Payment

[8-25.5.INST1.GR8](#) (Section 8-25.5 is supplemented with the following)
Must use once preceding any of the following:

[8-25.5.OPT1.GR8](#) (April 1, 2002)
Use in projects when the work zone analysis determines the need for temporary barrier screening.
8-25.1.OPT1.GR8, 8-25.2.OPT1.GR8, 8-25.3.OPT1.GR8, and 8-25.4.OPT1.GR8.

[8-29.GR8](#) Wire Mesh Slope Protection

[8-29.1.GR8](#) Description

[8-29.1.INST1.GR8](#) (Section 8-29.1 is supplemented with the following)
Must use once preceding any of the following:

[8-29.1.OPT1.GR8](#) (Cable Net Slope Protection)
(April 5, 2010)
Use in projects with cable net slope protection. Include with **8-29.2.OPT1.GR8, 8-29.3.OPT1.GR8, 8-29.4.OPT1.GR8 and 8-29.5.OPT1.GR8.**

[8-29.2.GR8](#) Materials

[8-29.2.INST1.GR8](#) (Section 8-29.2 is supplemented with the following)
Must use once preceding any of the following:

[8-29.2.OPT1.GR8](#) (Cable Net Slope Protection Materials)
(January 2, 2018)

1 Use in projects with cable net slope protection. Include
2 with **8-29.1.OPT1.GR8**, **8-29.3.OPT1.GR8**, **8-**
3 **29.4.OPT1.GR8** and **8-29.5.OPT1.GR8**.

4
5 **8-29.3.GR8** **Construction Requirements**

6
7 **8-29.3.INST1.GR8** (Section 8-29.3 is supplemented with the following)
8 Must use once preceding any of the following:

9
10 **8-29.3.OPT1.GR8** (Cable Net Slope Protection Construction Requirements)
11 (January 3, 2011)
12 Use in projects with cable net slope protection. Include
13 with **8-29.1.OPT1.GR8**, **8-29.2.OPT1.GR8**, **8-**
14 **29.4.OPT1.GR8** and **8-29.5.OPT1.GR8**.

15
16 **8-29.4.GR8** **Measurement**

17
18 **8-29.4.INST1.GR8** (Section 8-29.4 is supplemented with the following)
19 Must use once preceding any of the following:

20
21 **8-29.4.OPT1.GR8** (Cable Net Slope Protection)
22 (April 5, 2010)
23 Use in projects with cable net slope protection. Include
24 with **8-29.1.OPT1.GR8**, **8-29.2.OPT1.GR8**, **8-**
25 **29.3.OPT1.GR8**, and **8-29.5.OPT1.GR8**.

26
27 **8-29.5.GR8** **Payment**

28
29 **8-29.5.INST1.GR8** (Section 8-29.5 is supplemented with the following)
30 Must use once preceding any of the following:

31
32 **8-29.5.OPT1.GR8** (Cable Net Slope Protection)
33 (January 3, 2011)
34 Use in projects with cable net slope protection. Include
35 with **8-29.1.OPT1.GR8**, **8-29.2.OPT1.GR8**, **8-**
36 **29.3.OPT1.GR8**, and **8-29.4.OPT1.GR8**.

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38 **8-30.GR8** **Water Crossings**

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40 **8-30.3.GR8** **Construction Requirements**

41
42 **8-30.3(2).GR8** **General**

43
44 **8-30.3(2).INST1.GR8** (Section 8-30.3(2) is supplemented with the following)
45 Must use once preceding any of the following:

46
47 **8-30.3(2).OPT1.FR8** (Blending Streambed Aggregates)
48 (February 13, 2024)
49 Use in projects with streambed aggregates.

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51 **8-31.GR8** **Temporary Stream Diversion**

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53 **8-31.3.GR8** **Construction Requirements**

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8-31.3(1).GR8 **General**

8-31.3(1)A.GR8 **General TSD Requirements**

8-31.3(1)A.INST1.GR8 (Section 8-31.3(1)A is supplemented with the following)
Must use once preceding any of the following:

8-31.3(1)A.OPT1.FR8 (Minimum Stream Flows)
(October 3, 2022)
Use in all projects requiring a temporary stream diversion. Contact the HQ Hydraulics Office for fill-in information.
If a contingency system is required, must also use **8-31.3(1)A.OPT2.FR8**.
(1 fill-in)
Fill-in #1 is the minimum flow rate for the temporary stream diversion.

8-31.3(1)A.OPT2.FR8 (Minimum Stream Flows (Contingency System))
(October 3, 2022)
Use in all projects requiring a contingency system for temporary stream. Contact the HQ Hydraulics Office for fill-in information.
Must also use **8-31.3(1)A.OPT1.FR8**.
(1 fill-in)
Fill-in #1 is the minimum flow rate for the contingency system.

8-31.3(3).GR8 **Fish Block Net Installation and Fish and Aquatic Species Exclusion**

8-31.3(3)B.GR8 **Contracting Agency Provided Materials**

8-31.3(3)B.INST1.GR8 (Section 8-31.3(1)B is supplemented with the following)
Must use once preceding any of the following:

8-31.3(3)B.OPT1.FR8 (Contracting Agency Furnished Materials)
(October 3, 2022)
Use in all projects where the Contracting Agency is supplying fish exclusion materials such as nets, sandbags, posts, or other materials required to complete fish exclusion including installing fish block nets.
(1 fill-in)
Fill-in #1 is the materials that will be supplied by the Contracting Agency.

8-SA1.GR8 **Field Office Building**
(August 7, 2017)
Use in projects when a field office building is required.

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8-SA2.GR8

Bollards
(October 3, 2022)
Use in projects requiring bollards.
Contact Headquarters Design Standard Plans Office for plan details on Type 3 Bollards.

8-SA3.GR8

(Environmental Compliance)
(August 6, 2018)
For use on projects where the project has a high risk of soil erosion due to soil type, slope gradient and work in or has proximity to waters of the State (Hydraulics Runoff Manual (HRM) defines projects susceptible for high-risk soil erosion). Also for use on projects where there is extensive monitoring of environmental permit compliance.
The Region Construction Engineer and Region Environmental Office should be consulted for use as the provision introduces an Environmental Compliance Lead person that incorporates, expands, and replaces the duties of the ESC Lead person.

8-SA5.GR8

(Woody Material)
(January 6, 2025)
For use on projects that have logs with or without rootwads or slash materials.