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DIVISION8.GR8

MISCELLANEOUS CONSTRUCTION

01.GR8

EROSION CONTROL AND WATER POLLUTION CONTROL

0103.GR8

Construction Requirements

0103A.GR8

(Treatment of pH for Concrete Work)
(April 3, 2006)

Include in all projects when pH monitoring is a condition of a 401 Water Quality Certification, or other permit. Do not use in projects covered by a NPDES General Construction permit. *Must also use 01031A.GR8, 0105.GR8, 01031A1.GR5, 0105.GR5, 05031B.GR5, 0505.GR5, 023003.GB6, and 025A4.GB6.*

01031.GR8

General

01031A.GR8

Submittals

(April 3, 2006)

Must include with 0103A.GR8, 0105.GR8, 01031A1.GR5, 0105.GR5, 05031B.GR5, 0505.GR5, 023003.GB6, and 025A4.GB6.

010310.GR8

(Erodible Soil Central Basin)
(April 3, 2006)

Use for projects east of the Cascade range in areas receiving 12 inches or less annual precipitation. Do not use if any portion of the project lies in areas that receive more than 12 inches of annual precipitation. See

<http://www.wsdot.wa.gov/eesc/design/hydraulics/pdf/EastWAlso.pdf> for precipitation map.

010310A.GR8

Must use with 010311.FR8 or 010312.FR8.

010311.FR8

(Offsite Stormwater)
(April 1, 2002)

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)

010312.FR8

(Side Slope Treatment)
(April 1, 2002)

Use on projects where erodible soils are anticipated and it is desired to have the newly exposed slopes walked before final erosion control can be accomplished, in accordance with recommendation from environmental office.
(1 fill-in)

010302.GR8

Seeding, Fertilizing, and Mulching

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[010302B.GR8](#)

Seeding and Fertilizing

[010302B1A.FR8](#)

(Composition, proportion, quality and application rate of grass seed)
(December 4, 2006)
Use in projects with roadside seeding.
(2 fill-ins) (Fill-ins with dollar signs only are to be used as required)

[010302B1B.FR8](#)

(Composition, proportion, quality and application rate of grass seed)
(December 4, 2006)
Use this GSP when Source identified or non-source identified seed is not required.
(3 fill-ins) (Fill-ins with dollar signs only are to be used as required.)

[010302B2.GR8](#)

(Seeding by hand)
(January 3, 2006)
*Must also use **010302B5.GR8**.*
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.

[010302B3.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\$\$.)

[010302B4.FR8](#)

(More than one application of fertilizer)
(January 3, 2006)
*Must also use **010302B1.FR8**.*
Use in projects when the Region Landscape Arch. or Horticult. recommends more than one fertilizer application.
(7 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 \$\$4\$\$.)

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[010302B5.GR8](#) (Fertilizing by hand)
(January 3, 2006)
Must include with 010302B2.GR8.
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.

[010302B6.FR8](#) (Fertilizer Application in Eastern Washington)
(January 3, 2006)
Use this GSP for projects in eastern Washington where soils tests show excess potassium and phosphorous and high pH.

[010302C.GR8](#) **Liming**

[010302C1.FR8](#) (Rate of application of lime)
(January 3, 2006)
Use in projects requiring the application of lime.
(1 fill-in)

[010302D.GR8](#) **Mulching**

[010302D1.FR8](#) (Type and rate of application of mulch)
(January 3, 2006)
Use in projects requiring the application of mulch.
(2 fill-ins)

[0105.GR8](#) **Payment**
(April 3, 2006)
Must include with 0103A.GR8, 01031A.GR8, 01031A1.GR5, 0105.GR5, 05031B.GR5, 0505.GR5, 023003.GB6, and 025A4.GB6.

[02.GR8](#) **ROADSIDE RESTORATION**

[0201.GR8](#) **Description**

[02012.GR8](#) (Removal of Buried Man-Made Debris)
(December 6, 2004)
Use on projects that include soil amendment, and/or irrigation systems, and where man-made construction debris is known or suspected to exist. Requires the approval of the Region Construction Manager. *Must include 0203052.GR8 and 02052.GR8.*

[0203.GR8](#) **Construction Requirements**

[020305.GR8](#) **Planting Area Preparation**

[0203051.FR8](#) (Application of Compost)
(August 2, 2004)
Include when no incorporation of compost is required.
(1 fill-in)

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[0203051A.FR8](#) (Application of Compost)
(August 2, 2004)
Include when compost is to be incorporated into the soil.
(2 fill-ins)

[0203052.GR8](#) (Removal of Buried Man-Made Debris)
(December 6, 2004)
Must include with 02012.GR8 and 02052.GR8.

[0205.GR8](#) **Payment**

[02051A.GR8](#) (Compost)
(August 7, 2006)
Must include with **0203051A.FR8**

[02052.GR8](#) (Removal of Buried Man-Made Debris)
(December 6, 2004)
Must include with **02012.GR8** and **0203052.GR8**.

[10.GR8](#) **GUIDE POSTS**

[1001.GR8](#) **Description**

[10011.GR8](#) (Barrier Delineators)
(April 1, 2002)
Must also use 10021.GR8, 10031.GR8 or 10032.GR8, 10041.GR8, and 10051.GR8.

[1002.GR8](#) **Materials**

[10021.GR8](#) (Barrier Delineators)
(April 1, 2002)
Must also use 1011.GR8, 10031.GR8 or 10032.GR8, 10041.GR8, and 10051.GR8.

[1003.GR8](#) **Construction Requirements**

[10031.GR8](#) (Barrier Delineators)
(April 1, 2002)
Delineators placed 6" down from top.
Must also use 10011.GR8, 10021.GR8 10041.GR8, and 10051.GR8.

[10032.GR8](#) (Barrier Delineators)
(April 1, 2002)
Delineators placed on top of barrier.
Must also use 10011.GR8, 10021.GR8 10041.GR8, and 10051.GR8.

[1004.GR8](#) **Measurement**

[10041.GR8](#) (Barrier Delineators)
(April 1, 2002)
Must also use 10011.GR8, 10021.GR8 10031.GR8, or 10032.GR8, and 10051.GR8.

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[1005.GR8](#)

Payment

[10051.GR8](#)

(Barrier Delineators)
(April 1, 2002)
Must also use 10011.GR8, 10021.GR8 10031.GR8, or 10032.GR8, and 10041.GR8.

[11.GR8](#)

GUARDRAIL

[1101.GR8](#)

Description

[1101B.GR8](#)

(High-Tension Cable Barrier System 3 and 4 Cable)
(April 6, 2009)
Must also use 1102B.GR8 or 1102C.GR8 (or both), 1103C.FR8, 11043.GR8, 11053.GR8, and 11054.GR8.

[1102.GR8](#)

Materials

[1102B.GR8](#)

(High-Tension Cable Barrier System 3 Cable)
(April 6, 2009)
Must also use 1101B.GR8, 1103C.FR8, 11043.GR8, 11053.GR8, and 11054.GR8.

[1102C.GR8](#)

(High-Tension Cable Barrier System 4 Cable)
(August 3, 2009)
Must also use 1101B.GR8, 1103C.FR8, 11043.GR8, 11053.GR8, and 11054.GR8.

[1103.GR8](#)

Construction Requirements

[1103A.GR8](#)

(Box Culvert Guardrail Steel Posts)
(January 5, 1998)
Must also use 11041.GR8 and 11051.GR8.
Use in projects requiring the construction of steel guardrail posts on top of existing concrete box culverts.

[1103C.FR8](#)

(High-Tension Cable Barrier System 3 and 4 Cable)
(April 6, 2009)
Must also use 1101B.GR8, 1102B.GR8 or 1102C.GR8 (or both), 11043.GR8, 11053.GR8, and 11054.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)

[1103D.GR8](#)

(Beam Guardrail Type 31 NB)
(August 6, 2007)
Use in projects that contain Type 31 NB Guardrail.

[11031.GR8](#)

Beam Guardrail

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11031C.GR8

Erection of Rail

(August 6, 2007)

Use in projects requiring snow load washers.
Consult Region Operations for determination of need.

1104.GR8

Measurement

11041.GR8

(Box Culvert Guardrail Steel Posts)
(March 13, 1995)

Must include with 11031.GR8.

Use in projects requiring the construction of steel guardrail posts on top of concrete box culverts.

11043.GR8

(High-Tension Cable Barrier System 3 and 4 Cable)

(April 6, 2009)

Must also use 1101B.GR8, 1102B.GR8 or 1102C.GR1 (or both), 1103C.FR8, 11053.GR8, and 11054.GR8.

1105.GR8

Payment

11051.GR8

(Box Culvert Guardrail Steel Posts)
(September 30, 1996)

Must include with 11031.GR8.

Use in projects requiring the construction of steel guardrail posts on top of concrete box culverts.

11053.GR8

(High-Tension Cable Barrier)

(April 6, 2009)

Must also use 1101B.GR8, 1102B.GR8, 1103C.FR8, 11043.GR8 and 11054.GR8.

11054.GR8

(Additional High-Tension Cable Barrier Components)

(April 6, 2009)

Must also use 1101B.GR8, 1102B.GR8, 1103C.FR8, 11043.GR8 and 11053.GR8. No Federal funding participation. Must be in state funds group.

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12.GR8

CHAIN LINK FENCE AND WIRE FENCE

1202.GR8

Materials

12021.FR8

(Coated chain link fence)
(August 3, 2009)
Use in projects requiring the construction of coated chain link fence. *Must include 12051.GR8.*
(1 fill-in)

1205.GR8

Payment

12051.GR8

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

13.GR8

MONUMENT CASES

1301.GR8

Description

13011.GR8

(Monument pipes included in work)
(March 13, 1995)
Must also use 13021.GR8, 13031.GR8, 13041.GR8 and 13051.GR8.
Use in projects requiring that the monument pipes be installed by the Contractor.

1302.GR8

Materials

13021.GR8

(Monument pipes included in work)
(March 13, 1995)
Must include with 13011.GR8.
Use in projects requiring that the monument pipes be installed by the Contractor.

1303.GR8

Construction Requirements

13031.GR8

(Monument pipes included in work)
(March 13, 1995)
Must include with 13011.GR8.
Use in projects requiring that the monument pipes be installed by the Contractor.

1304.GR8

Measurement

13041.GR8

(Monument pipes included in work)
(March 13, 1995)
Must include with 13011.GR8.
Use in projects requiring that the monument pipes be installed by the Contractor.

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| 1 | 1305.GR8 | Payment |
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| 3 | 13051.GR8 | (Monument pipes included in work) |
| 4 | | (April 28, 1997) |
| 5 | | <i>Must include with 13011.GR8.</i> |
| 6 | | Use in projects requiring that the monument pipes be |
| 7 | | installed by the Contractor. |
| 8 | | |
| 9 | 15.GR8 | RIPRAP |
| 10 | | |
| 11 | 1504.GR8 | Measurement |
| 12 | | |
| 13 | 1504A.GR8 | <i>Must use once preceding the following:</i> |
| 14 | | 15041.GR8, 15042.GR8, 15043.GR8, and 15045.GR8. |
| 15 | | |
| 16 | 15041.GR8 | (Streambed sediment and streambed cobbles by the ton) |
| 17 | | (August 6, 2007) |
| 18 | | <i>Must include with 15051.GR8.</i> |
| 19 | | Use in projects requiring the use of streambed sediment |
| 20 | | and streambed cobbles measured and paid by the ton. |
| 21 | | |
| 22 | 15042.GR8 | (Streambed sediment and streambed cobbles by the cubic |
| 23 | | yard) |
| 24 | | (August 6, 2007) |
| 25 | | <i>Must include with 15052.GR8.</i> |
| 26 | | Use in projects requiring the use of streambed sediment |
| 27 | | and streambed cobbles measured and paid by the cubic |
| 28 | | yard. |
| 29 | | |
| 30 | 15043.GR8 | (Special excavation) |
| 31 | | (March 13, 1995) |
| 32 | | <i>Must also use 15053.GR8.</i> |
| 33 | | Use in projects requiring excavation outside the limits of |
| 34 | | structure excavation for riprap at bridge piers located within |
| 35 | | streams. |
| 36 | | |
| 37 | 15044.GR8 | (Excavation for riprap is included in cost |
| 38 | | of riprap) |
| 39 | | (February 5, 2001) |
| 40 | | <i>Must also use 15054.GR8.</i> |
| 41 | | Use in projects with small quantities of riprap or upon |
| 42 | | recommendation of the Construction and Materials Division. |
| 43 | | |
| 44 | 15045.GR8 | (Streambed Boulders and Habitat Boulders) |
| 45 | | (August 6, 2007) |
| 46 | | <i>Must include with 15055.GR8.</i> |
| 47 | | Use in projects requiring the use of streambed boulders and |
| 48 | | habitat boulders. |
| 49 | | |
| 50 | 1505.GR8 | Payment |
| 51 | | |
| 52 | 1505A.GR8 | <i>Must use once preceding the following:</i> |
| 53 | | 15051.GR8, 15052.GR8, 15053.GR8, and 15055.GR8. |
| 54 | | |
| 55 | 15051.GR8 | (Streambed sediment and streambed cobbles |

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by the ton)
(August 6, 2007)
Must include with 15041.GR8.
Use in projects requiring the use of streambed sediment and streambed cobbles measured and paid by the ton.

[15052.GR8](#)

(Streambed sediment and streambed cobbles by the cubic yard)
(August 6, 2007)
Must include with 15042.GR8.
Use in projects requiring the use of streambed gravel measured and paid by the cubic yard.

[15053.GR8](#)

(Special excavation)
(September 30, 1996)
Must include with 15043.GR8.
Use in projects requiring excavation outside the limits of structure excavation for riprap at bridge piers located within streams.

[15054.GR8](#)

(Excavation for riprap is included in cost of riprap)
(March 13, 1995)
Must include with 15044.GR8.
Use in projects with small quantities of riprap or upon recommendation of the Construction and Materials Division.

[15055.GR8](#)

(Streambed Boulder and Habitat Boulders)
(August 6, 2007)
Must include with 15045.GR8.
Use in projects requiring the use of streambed boulders and habitat boulders.

[16.GR8](#)

CONCRETE SLOPE PROTECTION

[1603.GR8](#)

Construction Requirements

[160302.GR8](#)

Placing Semi-Open Concrete Masonry Units

[1603021.GR8](#)

(Requirements for semi-open precast masonry units)
(December 19, 2005)
Must include with 16051.GR8.
Use in projects requiring semi-open concrete masonry slope protection.

[1605.GR8](#)

Payment

[16051.GR8](#)

(Semi-open Conc. Masonry Slope Protection)
(September 30, 1996)
Must include with 1603021.GR8.
Use in projects requiring semi-open concrete masonry slope protection.

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20.GR8

ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, AND ELECTRICAL

2002.GR8

Materials

20022.GR8

Light And Signal Standards

200221.GR8

Light Standards With Type 1 Luminaire Arms

(April 6, 2009)

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

200222.GR8

Light Standards With Type 1 Luminaire Arms

(April 6, 2009)

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.

200223.GR8

Light Standards With Type 2 Luminaire Arms

(December 1, 2008)

Use in projects requiring Type 2 luminaire arms and the Engineer is not required to verify the H1 distances shown in the Plans.

200224.GR8

Light Standards With Type 2 Luminaire Arms

(December 1, 2008)

Use in projects requiring Type 2 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.

200225.GR8

Traffic Signal Standards

(August 3, 2009)

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

200226.GR8

Traffic Signal Standards

(August 3, 2009)

Use in projects requiring traffic signal standards, or combination traffic signal/light standards with Type 2 luminaire arms, or both.

200201.GR8

Equipment List And Drawings

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|----|------------------------------|---|
| 1 | 2002011.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. |
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| 9 | 2002012.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. |
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| 18 | 2002013.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. |
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| 24 | | |
| 25 | 2003.GR8 | Construction Requirements |
| 26 | | |
| 27 | 200308.GR8 | Wiring |
| 28 | | |
| 29 | 20CHART.GR8 | Field Wiring Chart (March 13, 1995) Use in projects with traffic signal systems. |
| 30 | | |
| 31 | | |
| 32 | | |
| 33 | 200314.GR8 | Signal Systems |
| 34 | | |
| 35 | 200314A.GR8 | Signal Controllers |
| 36 | | |
| 37 | 200314A1.GR8 | Testing (March 13, 1995) Use in projects with Contractor furnished signal controllers. |
| 38 | | |
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| 42 | 24.GR8 | ROCK AND GRAVITY BLOCK WALL, AND GABION CRIBBING |
| 43 | | |
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| 45 | 2402.GR8 | Materials |
| 46 | | |
| 47 | 24021.GR8 | (Gravity Block Wall) (January 7, 2002) Use in projects constructing gravity block walls. Include with 2403021.GR8 . |
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| 52 | 2403.GR8 | Construction Requirements |
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|----|-----------------------------|---|
| 1 | 240302.GR8 | Gravity Block Wall |
| 2 | | |
| 3 | 2403021.GR8 | (Gravity Block Wall) |
| 4 | | (January 7, 2002) |
| 5 | | Use in projects constructing gravity block walls. |
| 6 | | Include with 24021.GR8 . |
| 7 | | |
| 8 | 25.GR8 | GLARE SCREEN |
| 9 | | (April 1, 2002) |
| 10 | | Use in projects when the work zone analysis determines the need for |
| 11 | | temporary barrier screening. |
| 12 | | |
| 13 | 50.GR8 | WILDLIFE REFLECTORS |
| 14 | | (August 4, 2003) |
| 15 | | Use in projects requiring the use of wildlife reflectors. |
| 16 | | |
| 17 | 53.GR8 | FIELD OFFICE BUILDING |
| 18 | | |
| 19 | 5301.GR8 | Description |
| 20 | | (March 13, 1995) |
| 21 | | Use in projects when a field office building is required. |
| 22 | | |
| 23 | 5303.GR8 | Construction Requirements |
| 24 | | |
| 25 | 53031.GR8 | (Field office building requirements) |
| 26 | | (March 13, 1995) |
| 27 | | Use in projects when a field office building is required. |
| 28 | | |
| 29 | 5305.GR8 | Payment |
| 30 | | (October 28, 1996) |
| 31 | | Use in projects when a field office building is required |
| 32 | | |
| 33 | 54.GR8 | BOLLARDS |
| 34 | | (April 4, 2005) |
| 35 | | Use in projects requiring bollards. |
| 36 | | |