1	DIVISION2.GR2	Earthwork
2 3 4	<u>2-01.GR2</u>	Clearing, Grubbing, and Roadside Cleanup
5 6	<u>2-01.1.GR2</u>	Description
7 8 9	<u>2-01.1.INST1</u>	.GR2 (Section 2-01.1 is supplemented with the following) Must use once preceding any of the following:
10 11 12 13 14 15 16	<u>2-01.1.OP</u>	 (Clearing and Grubbing) (March 13, 1995) Use when the payment for clearing and grubbing is either lump sum or included in other work. (1 fill-in) (Fill-in describes the longitudinal and lateral limits of clearing and grubbing)
17	<u>2-01.3.GR2</u>	Construction Requirements
18 19	<u>2-01.3(1).GR</u>	2 Clearing
20 21 22	<u>2-01.3(1).</u>	NST1.GR2 (Item number 1 of Section 2-01.3(1) is revised to read) Must use once preceding any of the following:
23 24 25 26 27	<u>2-01.3(</u>	1).OPT1.GR2 (April 2, 2018) Use in projects applying Programmatic Biological Assessment Minimization Measure #88.
28 29	<u>2-01.3(4).GR</u>	2 Roadside Cleanup
30 31	<u>2-01.3(4).</u>	NST1.GR2 (Section 2-01.3(4) is supplemented with the following) Must use once preceding any of the following:
32 33 34 35 36 37	<u>2-01.3(</u>	(Roadside Cleanup) (January 5, 1998) Use if additional work is required under the item "Roadside Cleanup". (fill-ins)
38 39	<u>2-01.5.GR2</u>	Payment
40 41 42 43 44	<u>2-01.5.INST1</u>	.GR2 (The first and second paragraphs of Section 2-01.5 are revised to read) Must use once preceding any of the following:
45 46 47 48 49	<u>2-01.5.OP</u>	T1.FR2(Clearing and Grubbing) (August 7, 2017) Must be used with 2-01.1.OPT1.FR2 when the payment for clearing and grubbing is included in other work. (1 fill-in)
50 51	<u>2-02.GR2</u>	Removal of Structures and Obstructions
52 53	<u>2-02.1.GR2</u>	Description

1		
2 3 4	<u>2-02.1.INST1.GR2</u>	(Section 2-02.1 is supplemented with the following) Must use once preceding any of the following:
4 5 6 7 8 9 10 11 12 13 14	<u>2-02.1.OPT1.GR2</u>	(Removal of Misc. Traffic Items) (March 13, 1995) Must also use 2-02.3.OPT2.FR2 and 2-02.5.OPT8.GR2 Use in projects requiring the removal of minor quantities of miscellaneous traffic items such as traffic islands, traffic curb, lane markers, plastic traffic buttons, guide posts, etc. when there is no pay item for Removal of Structures and Obstructions and the cost of removing each type of item is under \$10,000.
15 16 17 18 19	<u>2-02.1.OPT2.GR2</u>	(Removal and Disposal of Asbestos Material) (October 4, 2021) Must also use 1-07.5(4)C.OPT1.FR1 , 2-02.3.OPT4.GR2 and 2-02.5.OPT11.GR2 . Use in projects when asbestos removal is required.
20 21 22 23 24 25 26 27 28	<u>2-02.1.OPT3.GR2</u>	(Removing Portions of Existing Box Culvert) (March 13, 1995) Use in projects requiring removal of portions of existing box culverts prior to extending or widening the structure. Include with 2-02.3(2).OPT12.GR2, 6-02.2.OPT2.GB6, 6- 02.3(24)C.OPT1.GB6, 6-02.3(24)C.OPT2.GR6, 6- 02.5.OPT5.GB6, and 2-02.5.OPT12.GR2.
29 30 31 32 33 34 35	<u>2-02.1.OPT5.GR2</u>	(Decommissioning Wells) (February 25, 2021) Include in projects when wells will not be removed prior to advertisement and will be removed as part of the Contract. Use with 2-02.2.OPT1.GR2 , 2-02.3.OPT7.GR2 , and 2- 02.5.OPT2.GR2 .
36	<u>2-02.2.GR2</u> Ma	aterials
37 38 39 40	2-02.2.INST1.GR2	(Section 2-02.2 is supplemented with the following) Must use once preceding any of the following:
40 41 42 43 44 45 46 47	<u>2-02.2.OPT1.GR2</u>	(Decommissioning Wells) (February 25, 2021) Include in projects when wells will not be removed prior to advertisement and will be removed as part of the Contract. Use with 2-02.1.OPT5.GR2 , 2-02.3.OPT7.GR2 , and 2- 02.5.OPT2.GR2 .
48 49	<u>2-02.3.GR2</u> Co	onstruction Requirements
49 50 51 52	2-02.3.INST1.GR2	(Section 2-02.3 is supplemented with the following) Must use once preceding any of the following:
52 53	2-02.3.OPT1.FR2	(Removal of Obstructions)

1 2 3 4		(September 7, 2021) Use <i>except</i> when the combined cost of all obstruction removal is \$5,000 or less and payment is to be included in other payment items.
5 6 7 8 9		Removal of obstructions that are readily measurable and for which the cost of removal is \$5,000 or less per obstruction may be included in this pay item.
9 10 11 12 13		Removal of obstructions that are not readily measurable, such as foundations, may be included in this item regardless of the removal cost.
13 14 15 16 17		List all items and approximate quantities to be removed under "Removal of Structure and Obstruction". (1 fill-in)
18 19 20	2-02.3.OPT2.FR2	(Removing Miscellaneous Traffic Items) (March 13, 1995) Must include with 2-02.1.OPT1.GR2 .
21 22 23 24 25 26 27 28 29 30 24	<u>2-02.3.OPT3.FR2</u>	(Removal and Disposal of Hazardous Material) (June 6, 2022) Must also use 2-02.4.OPT1.GR2 and 2-02.5.OPT7.GR2 . Use only for subsurface removal of known or suspected hazardous or contaminated material. Fill-in is for type of material, depth of contamination in soil, and depth of contamination in water. Fill-in information is to be provided by the Region Environmental Staff. (1 fill-in)
31 32 33 34 35 26	2-02.3.0PT4.GR2	(Removal and Disposal of Asbestos Material) (October 4, 2021) Must include with 1-07.5(4)C.OPT1.FR1 , 2- 02.1.OPT2.GR2 , and 2-02.5.OPT11.GR2 .
36 37 38 39	2-02.3.OPT5.GR2	(Removal and Disposal of Asbestos Material) (October 4, 2021) Must include with 1-07.5(4)C.OPT2.FR1 .
40 41 42 43 44 45 46 47 48 49 50 51	<u>2-02.3.OPT6.FB2</u>	(Salvage of Removed Structure Items) (June 26, 2000) Use when removal items are to remain the property of the Contracting Agency. The first fill-in specifies the salvaged items. The second fill-in specifies the name and address (street address or highway milepost) of the material storage site. Include with either 2-02.3(2).OPT1.FB2, 2-02.3(2).OPT2.FB2, or 2- 02.3(2).OPT3.FB2, and 2-02.3(2).OPT10(B).FB2. (2 fill-ins)
51 52 53	2-02.3.0PT7.GR2	(Well Decommissioning) (February 25, 2021)

1 2 3 4 5	ac Us	clude in projects when wells will not be removed prior to dvertisement and will be removed as part of the Contract. se with 2-02.1.OPT5.GR2 , 2-02.2.OPT1.GR2 , and 2- 2.5.OPT2.GR2 .
6 7		oval of Bridges, Box Culverts, and other Drainage ctures
8 9 10		Section 2-02.3(2) is supplemented with the following) ust use once preceding any of the following:
11 12 13 14 15 16 17 18 19 20 21 22	<u>2-02.3(2).OPT1.FB2</u>	(Removing Existing Bridge) (June 26, 2000) Use in projects requiring the removal of existing bridge(s) in one stage. The first fill-in specifies the bridge(s). The second fill-in specifies where traffic is directed (onto the detour route or bridge, onto the new bridge, etc.). Include with 2-02.3(2).OPT10(B).FB2. Include with 1-07.1(2).OPT3.FR1 if the bridge being removed has steel members with lead paint. (2 fill-ins)
23 24 25 26 27 28 29 30	<u>2-02.3(2).OPT2.FB2</u>	(Removing Existing Bridge) (June 26, 2000) Use in projects requiring the removal of existing bridge(s) in two or more stages. The fill-in specifies the bridge(s). Include with <i>1-07.1(2).0PT3.FR1</i> if the bridge being removed has steel members with lead paint. (1 fill-in)
31 32 33 34 35 36 37 38 39 40	<u>2-02.3(2).OPT3.FB2</u>	(Removing Portion of Existing Bridge) (June 26, 2000) Use in projects requiring the removal of portions of existing bridge(s). The first fill-in specifies the bridge(s). The second fill-in specifies the portions being removed. Include with <i>1-07.1(2).0PT3.FR1</i> if the bridge being partially removed has steel members with lead paint. (2 fill-ins)
41 42 43 44 45 46 47 48 49 50 51 52	<u>2-02.3(2).OPT7.FB2</u>	(Removal in Water) (June 26, 2000) Use in projects requiring the removal of existing bridge(s) when removal involves piers within the wetted perimeter of a stream, lake or bay. The first fill- in specifies the bridge(s). The second and fourth fill-ins specify the body of water. The third fill-in specifies the elevation of the removal level. Include with either 2- 02.3(2).OPT1.FB2, 2-02.3(2).OPT2.FB2, or 2- 02.3(2).OPT3.FB2, and 2-02.3(2).OPT10(B).FB2.
52 53	2-02.3(2).OPT10.GB2	(Use of Explosives)

1 2		Must use once preceding any of the following:
2 3 4 5 6 7 8 9 10 11 12 13	<u>2-02.3(2).OPT10(B).</u>	 (Structure Removal By Explosives) (January 2, 2018) Use in projects requiring removal of existing bridges only if explosives may be used. The fill-in specifies the bridge where the use of explosives is permitted for removal operations. Include with 2-02.3(2).OPT1.FB2. Include with 1- 07.1(2).OPT3.FR1 if the bridge involved has steel members with lead paint. (1 fill-in)
14 15 16 17 18 19 20 21 22 23	<u>2-02.3(2).OPT11.GB2</u>	(Requirements for Closing Bridge Prior to Removal) (January 2, 2018) Use in projects requiring removal of existing bridges when it is necessary to close the bridge to traffic in order to complete removal as soon as possible. Include with 2-02.3(2).OPT1.FB2, and 2- 02.3(2).OPT10(B).FB2. Include with 1- 07.1(2).OPT3.FR1 if the bridge involved has steel members with lead paint.
24 25 26 27 28 29 30 31 32	<u>2-02.3(2).OPT12.GR2</u>	(Removing Portions of Existing Box Culvert) (June 26, 2000) Use in projects requiring removal of portions of existing box culverts prior to extending or widening the structure. Include with 2-02.1.OPT3.GR2, 6- 02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6- 02.3(24)C.OPT2.GR6, and 6-02.5.OPT5.GB6, and either 2-02.5.OPT12.GR2 or 2-02.5.OPT15.GR2.
33 34	2-02.3(3).GR2 Remo	oval of Pavement, Sidewalks, Curbs, and Gutters
35 36 37		ection 2-02.3(3) is supplemented with the following) st use once preceding any of the following:
38 39 40 41 42 43 44 45	<u>2-02.3(3).OPT1.FR2</u>	(September 8, 1997) Include in projects when removal of pavement is outside the limits of roadway excavation, and the removal is to be paid by the square yard. Must also use 2-02.4.OPT2.GR2 and 2- 02.5.OPT13.FR2 . (2 fill-ins)
46 47	2-02.4.GR2 Measurem	nent
48 49 50		on 2-02.4 is supplemented with the following) use once preceding any of the following:
50 51 52 53	(De	emoval and Disposal of Hazardous Material) ecember 4, 2006) st include with 2-02.3.OPT3.FR2 and

1		2-02.5.OPT7.GR2.
2 3 4 5 6	2-02.4.0PT2.GR2	(Pavement Removal) (September 8, 1997) Must include with 2-02.3(3).OPT1.FR2. .
7 8 9 10 11 12	<u>2-02.4.OPT3.GR2</u>	(Sidewalk Removal) (October 25, 1999) Include in projects when removal of sidewalk is outside the limits of roadway excavation, and the removal is to be paid by the square yard. Must include with 2-02.5.OPT16.FR2 .
13 14 15 16 17 18 19 20	<u>2-02.4.OPT4.GR2</u>	(Curb Removal) (September 8, 1997) Include in projects when removal of curb is outside the limits of roadway excavation, and the removal is to be paid by the linear foot. Must include with 2-02.5.OPT17.FR2 .
20 21	<u>2-02.5.GR2</u> Pay	ment
22 23 24	2-02.5.INST1.GR2	(Section 2-02.5 is revised by the following) Must use once preceding any of the following:
25 26 27 28 29	2-02.5.0PT1.FR2	(Removal of structures and obstructions included in other work) (August 1, 2017) (1 fill-in)
30 31 32	2-02.5.INST2.GR2	(Section 2-02.5 is supplemented with the following) Must use once preceding any of the following:
33 34 35 36 37 38 39	<u>2-02.5.OPT2.GR2</u>	(Decommissioning Wells) (February 25, 2021) Include in projects when wells will not be removed prior to advertisement and will be removed as part of the Contract. Use with 2-02.1.OPT5.GR2 , 2-02.2.OPT1.GR2 , and 2- 02.3.OPT7.GR2 .
40 41 42 43 44 45	<u>2-02.5.OPT7.GR2</u>	(Removal and Disposal of Hazardous Material) (December 4, 2006) <i>Must include with 2-02.3.OPT3.FR2 and</i> 2-02.4.OPT1.GR2 .
46 47 48	2-02.5.OPT8.GR2	(Removing Miscellaneous Traffic Items) (September 30, 1996) <i>Must include with 2-02.1.OPT1.GR2.</i>
49 50 51 52 53	<u>2-02.5.0PT11.GR2</u>	(Removal and Disposal of Asbestos Material) (September 30, 1996) Must include with 1-07.5(4)C.OPT1.FR1 , 2- 02.1.OPT.GR2 , and 2-02.3.OPT4.GR2 .

1 2 3 4 5 6 7	<u>2-02.5.OPT12.GR</u>	 (Removing Portion of Conc. Box Culvert) (June 26, 2000) Use in projects requiring removal of portions of existing box culverts prior to extending or widening the structure. Include with 2-02.1.OPT3.GR2, 2-02.3(2).OPT12.GR2, 6- 02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6-
8		02.3(24)C.OPT2.GR6, and 6-02.5.OPT5.GB6.
9 10 11 12 13	<u>2-02.5.OPT13.FR</u>	 (Pavement Removal) (September 30, 1996) Must include with 2-02.3(3).OPT1.FR2. (1 fill-in)
14 15 16 17 18 20 21	<u>2-02.5.OPT15.GR</u>	 (Removal of portions of box culvert) (June 26, 2000) Use in projects requiring removal of portions of existing box culverts prior to extending or widening the structure. Include with 2-02.1.OPT3.GR2, 2-02.3(2).OPT12.GR2, 6- 02.2.OPT2.GB6, 6-02.3(24)C.OPT1.GB6, 6- 02.3(24)C.OPT2.GR6, and 6-02.5.OPT5.GB6.
22 23 24 25 26	<u>2-02.5.OPT16.FR</u>	2 (Sidewalk Removal) (November 3, 1999) Must include with 2-02.4.OPT3.GR2 (1 fill-in)
27 28 29 30 31	<u>2-02.5.OPT17.FR</u>	 (Removal of portions of Curb) (September 8, 1997) Must include with 2-02.4.OPT4.GR2. (1 fill-in)
32 33	2-03.GR2 Road	way Excavation and Embankment
34 35	2.02.1 CP2	Description
36	<u>2-03.1.GR2</u>	Description
37 38 39	<u>2-03.1.INST1.GR2</u>	(Section 2-03.1 is supplemented with the following) Must use once preceding any of the following:
40 41 42 43 44 45	<u>2-03.1.OPT1.GR2</u>	(Geofoam Lightweight Fill) (July 2, 2024) Use in projects utilizing geofoam lightweight fill. Use with 2-03.2.OPT1.GR2 , 2-03.3.OPT1.GR2 , 2-03.4.OPT5.GR2 , and 2-03.5.OPT4.GR2 .
46	<u>2-03.2.GR2</u>	/acant
47 48 49 50	<u>2-03.2.INST1.GR2</u>	(Section 2-03.2, including title, is deleted and replaced with the following:) Must use once preceding any of the following:
51 52 53	2-03.2.OPT1.GR2	(Geofoam Lightweight Fill) (July 2, 2024)

1 2 3 4		Use in projects utilizing geofoam lightweight fill. Use with 2-03.1.OPT1.GR2 , 2-03.3.OPT1.GR2 , 2- 03.4.OPT5.GR2 , and 2-03.5.OPT4.GR2 .
5 6	<u>2-03.3.GR2</u> Co	nstruction Requirements
7 8 9	2-03.3.INST1.GR2	(Section 2-03.3 is supplemented with the following) Must use once preceding any of the following:
9 10 11 12 13 14 15	<u>2-03.3.OPT1.GR2</u>	(Geofoam Lightweight Fill) (July 2, 2024) Use in projects utilizing geofoam lightweight fill. Use with 2-03.1.OPT1.GR2 , 2-03.2.OPT1.GR2 , 2- 03.4.OPT5.GR2 , and 2-03.5.OPT4.GR2 .
16	<u>2-03.3(2).GR2</u>	Rock Cuts
17 18 19 20	<u>2-03.3(2).INST1.GR2</u>	(Section 2-03.3(2) is supplemented with the following) Must use once preceding any of the following:
20 21 22 23 24 25	<u>2-03.3(2).OPT1.0</u>	 (Rock Slope Scaling and Removal and Disposal of Rock Slope Scaling Debris) (September 7, 2021) Use in projects with rock slope scaling. Include with 2-03.4.OPT4.GR2 and 2-03.5.OPT3.GR2.
26 27	<u>2-03.3(7).GR2</u>	Disposal of Surplus Material
28 29 30	<u>2-03.3(7).INST1.GR2</u>	2 (Section 2-03.3(7) is supplemented with the following) Must use once preceding any of the following:
31 32 33 34 35 36	<u>2-03.3(7).OPT1.F</u>	 (Contracting Agency furnished waste site) (March 13, 1995) Use in projects with Contracting Agency provided waste sites. (1 fill-in)
37 38 39 40 41 42 42	<u>2-03.3(7).OPT2.F</u>	(Waste material by embankment widening) (March 13, 1995) Use in projects where the Contracting Agency specifies embankments to be widened. (2 fill-ins)
43 44 45 46 47	<u>2-03.3(7).OPT3.0</u>	 (Contracting Agency provided sites are not mandatory) (March 13, 1995) Use, when applicable, with 2-03.3(7).OPT1.FR2 or 2-03.3(7).OPT2.FR2.
48 49 50 51 52 53	<u>2-03.3(7).OPT4.0</u>	 (Contracting Agency provided sites are not of sufficient size) (March 13, 1995) Use, when applicable, with 2-03.3(7).OPT1.FR2 or 2-03.3(7).OPT2.FR2.

1 2	<u>2-03.3(14).GR2</u> Embank	ment Construction
3 4 5	2-03.3(14)C.GR2 Comp	pacting Earth Embankments
5 6 7 8	wi	ection 2-03.3(14)C is supplemented th the following) ust use once preceding any of the following:
9 10 11 12	<u>2-03.3(14)C.OPT1.GR2</u>	(March 13, 1995) Use in projects when no payment for embankment compaction (Method A) is included.
13 14	2-03.3(14)I.GB2 Emba	ankments At Bridge And Trestle Ends.
15 16 17 18 19	wi	ection 2-03.3(14)I is supplemented th the following) ust use once preceding any of the following:
20 21 22 23 24 25	<u>2-03.3(14)I.OPT1.FB2</u>	(March 13, 1995) Use in projects when the bridge approach embankments must be constructed before the end piers. (2 fill-ins)
26	2-03.4.GR2 Measuremen	nt
27 28 29		2-03.4 is supplemented with the following) e once preceding any of the following:
30 31 32 33 34 35 36	(Marc Must Use beam	ankment In Place) h 13, 1995) also include 2-03.5.OPT1.GR2 . in projects that require embankment widening for guardrail and no other grading pay items are led in the contract to construct the widening.
37 38 39 40 41	(Sept Must	surement of roadway excavation and embankment) ember 3, 2024) include with 1-05.4.OPT2.GR1 , Contractor surveying lway. May be used without Contractor surveying.
42 43 44 45 46	(Marc Use i	surement of roadway excavation and embankment) h 13, 1995) n minor grading projects when the original cross- ons are satisfactory for construction payment.
47 48 49 50 51 52 53	Slope (April Use ir	Slope Scaling and Rock Scaling Debris Removal Including Haul) 5, 2010) projects with rock slope scaling. Include with 3(2).OPT1.GR2 and 2-03.5.OPT3.GR2 .

1 2 3 4 5 6	2-03.4.OPT5.GR2 (Geofoam Lightweight Fill) (July 2, 2024) Use in projects utilizing geofoam lightweight fill. Use with 2-03.1.OPT1.GR2, 2-03.2.OPT1.GR2, 03.3.OPT1.GR2, and 2-03.5.OPT4.GR2.			
7	<u>2-03.5.GR2</u> Payr	nent		
8 9 10		(Section 2-03.5 is supplemented with the following) Must use once preceding any of the following:		
11 12 13 14	2-03.5.OPT1.GR2	(Embankment In Place) (September 30, 1996) Must include with 2-03.4.OPT1.GR2 .		
15 16 17 18 19 20 21	<u>2-03.5.OPT2.FR2</u>	(Preparation of waste sites) (March 13, 1995) Use in projects when the preparation of waste sites is included in other work. (1 fill-in)		
21 22 23 24 25 26 27	<u>2-03.5.OPT3.GR2</u>	(Rock Slope Scaling and Rock Slope Scaling Debris Removal Including Haul) (April 5, 2010) Use in projects with rock slope scaling. Include with 2- 03.3(2).OPT1.GR2 and 2-03.4.OPT4.GR2.		
28 29 30 31 32	<u>2-03.5.OPT4.GR2</u>	(Geofoam Lightweight Fill) (July 2, 2024) Use in projects utilizing geofoam lightweight fill. Use with 2-03.1.OPT1.GR2 , 2-03.2.OPT1.GR2 , 2- 03.3.OPT1.GR2 , and 2-03.4.OPT5.GR2 .		
33 34	2-06.GR2 Subgrade	Preparation		
35 36	2-06.3.GR2 Cons	struction Requirements		
37 38	<u>2-06.3(1).GR2</u>	Subgrade For Surfacing		
39 40 41	<u>2-06.3(1).INST1.GR2</u>	(Section 2-06.3(1) is supplemented with the following) Must use once preceding any of the following:		
42 43 44 45 46 47 48 49 50 51	<u>2-06.3(1).OPT1.G</u>			
52 53	<u>2-06.3(1).OPT2.G</u> F	(Subgrade trimmer not required) (March 13, 1995)		

1 2 3 4 5 6 7		planne The p Borrov Haul" t for trin	n grading-only projects where a treated base is ed for construction on a future project. project should include a bid item for "Gravel v Including Haul" or "Borrow Excavation Including to ensure that sufficient fine material is available nming. The position of the future treated base is wn on the plans.
8 9 10	2-09.GR2 Structure Ex	cavation	
10 11 12	2-09.3.GR2 Constru	uction Re	equirements
13 14	<u>2-09.3(1).GR2</u> Ge	neral Red	quirements
15 16	<u>2-09.3(1)C.GR2</u>	Removal	Of Unstable Base Material
17 18 19	<u>2-09.3(1)C.INST1.GF</u>	with th	on 2-09.3(1)C is supplemented ne following) use once preceding any of the following:
20 21 22	<u>2-09.3(1)C.OPT1.</u>	. <u>FB2</u> ((Soils Prone to Disturbance)
23 24 25 26		t c c t	(September 8, 2020) Use in bridge projects in where soil in the bottom of footing excavation is susceptible to disturbance and may become unsuitable. Use at the recommendation of the State Geotechnical
27 28 29 30		(Office. (1 fill-in) Fill-in #1 is the location of the soils prone to disturbance.
31 32 33		enstructio ass A	on Requirements, Structure Excavation,
34 35 36		Excavatio Excavatio	on Using Open Pits – Extra on
37 38 39 40 41	<u>2-09.3(3)B.INST1.GR</u>	with th	on 2-09.3(3)B is supplemented ne following) use once preceding any of the following:
42 43 44	<u>2-09.3(3)B.OPT1.F</u>	<u>-B2</u>	(Extra Excavation and Open Pit Excavation Not Allowed) (September 7, 2021)
45 46 47 48 49 50			Use in projects where extra excavation and open pit excavation is not allowed at specific locations. The fill-in specifies the location(s) where extra excavation and open pit excavation is not allowed. (1 fill-in)
51 52 53	<u>2-09.3(3)B.OPT2.</u>	<u>FR2</u>	(Extra Excavation and Open Pit Excavation) (April 1, 2019)

1 2 3 4 5 6 7 8			Use in projects where temporary excavation slopes are located beneath structures, critical facilities, or where recommended by the State Geotechnical Office. The fill-in specifies the location(s) where extra excavation and open pit excavation is allowed. (1 fill-in)
9	<u>2-09.3(3)D.GR2</u>	Shoring	g And Cofferdams
10 11 12 13 14	<u>2-09.3(3)D.INS</u>	follo	ction 2-09.3(3)D is supplemented with the wing) t use once preceding any of the following:
15 16 17 18	<u>2-09.3(3)D.(</u>	<u>OPT1.GB2</u>	(Protecting existing pavement) (March 13, 1995) Use in projects when bridges are over or adjacent to existing highways.
19 20 21 22 23	<u>2-09.3(3)D.(</u>	<u>DPT2.GB2</u>	(Protecting RR tracks) (August 2, 2010) Use in projects when bridges are over or adjacent to existing railroad tracks.
24 25 26 27 28 29	<u>2-09.3(3)D.(</u>	<u>DPT3.FB2</u>	(March 13, 1995) Use with 2-09.3(3)D.OPT2.GB2 when construction is required near railroad tracks, or structures which require extensive shoring. (3 fill-ins)
30 31	<u>2-09.4.GR2</u> M	easurement	
32 33 34 35 26	<u>2-09.4.INST1.GR2</u>	supplemer	ection Lower Limits of Section 2-09.4 is nted with the following) once preceding any of the following:
36 37 38 39 40 41	(Addition at end pi Use in p		y 4, 2010) nal structure excavation under girders piers) projects where excavation is required outside of structure excavation limits for end pier footings.
42 43	2-12.GR2 Constr	uction Geosy	ynthetic
44 45 46	<u>2-12.1.GR2</u> D	escription	
46 47 48	2-12.1.INST1.GR2		12.1 is supplemented with the following) once preceding any of the following:
49 50 51 52 53	<u>2-12.1.OPT1.GR2</u>	(Novem Use in	thetic Reinforced Slope ber 17, 1997) projects requiring geosynthetic reinforced slopes. design should be performed by the State

1 2 3		Geotechnical Office or a geotechnical consultant. Use details from DETAILS.CEL Library; D225, D229, D230, and D230A or D230B.	
4 5 6 7	2-12.2.GR2 Materials		
6 7 8 9 10	<u>2-12.2(9-03.14).GR2</u>	(Borrow) (Section 9-03.14 is supplemented with the following) Must use once preceding any of the following:	
10 11 12 13 14 15 16	<u>2-12.2(9-03.14).OP</u>	<u>T1.FR2</u> (Borrow for Geosynthetic Reinforced Slopes) (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes. (1 fill-in)	
17 18 19 20	<u>2-12.2(9-07.7).GR2</u>	(Welded Wire Reinforcement) (Section 9-07.7 is supplemented with the following) Must use once preceding any of the following:	
20 21 22 23 24 25	<u>2-12.2(9-07.7).OPT</u>	<u>1.GR2</u> (Welded Wire Reinforcement) (February 6, 2023) Use in projects where welded wire faced geosynthetic reinforced slopes are specified.	
26 27 28 29 30	<u>2-12.2(9-33.2(2)).GR2</u>	(Geosynthetic Properties for Retaining Walls and Reinforced Slopes) (Section 9-33.2(2) is supplemented with the following) Must use once preceding any of the following:	
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	<u>2-12.2(9-33.2(2)).OF</u>	 PT1.FR2 (Geosynthetic Properties for Reinforced Slopes) (January 2, 2012) Use in projects requiring geosynthetic reinforced slopes. The slope class must be identified in fill-in 6 based on the following: Class 1 is typically reinforced slopes which support bridge abutments, buildings, critical utilities, or other facilities which the consequences of poor performance or failure would be severe. In general, slopes greater than 30 feet in height. Class 2 is all reinforced slopes not categorized as Class 1. (6 fill-ins) 	
45 46 47 48 49 50	<u>2-12.2(9-33.2(2)).OF</u>	PT2.GR2 (Geosynthetic Properties for Turf Reinforcement Mat) (April 5, 2004) Use in projects where geosynthetic reinforced slopes with a turf reinforcement mat facing are specified.	
50 51 52 53	<u>2-12.2(9-33.4(1)).GR2</u>	(Source Approval) (Section 9-33.4(1) is supplemented with the following) Must use once preceding any of the following:	

1 2	2-12.2(9-33.4(1)).OPT1.GR2 (Geosynthetic Reinforced Slope)
3 4	Primary Reinforcement (April 5, 2004)
5	Use in projects requiring geosynthetic reinforced
6	slopes.
7	
8	<u>2-12.2(9-33.4(1)).OPT2.GR2</u> (Geosynthetic Reinforced Slope)
9	Secondary Reinforcement
10	(April 5, 2004)
11	Use in projects where geosynthetic reinforced slopes
12	with secondary reinforcement are specified.
13	
14	2-12.2(9-33.4(1)).OPT3.GR2 (Geosynthetic Reinforced Slope)
15 16	Turf Reinforcement Mat
16 17	(November 17, 1997) Use in projects where geosynthetic reinforced slopes
18	with turf reinforcement mat facing are specified.
19	with tarr former comment that labeling all opposition.
20	2-12.2(9-33.4(3)).GR2 (Acceptance Samples)
21	(Section 9-33.4(3) is supplemented with the following)
22	Must use once preceding any of the following:
23	
24	2-12.2(9-33.4(3)).OPT1.GR2 (Geosynthetic Reinforced)
25	Slope Primary Reinforcement
26	(November 17, 1997)
27 28	Use in projects requiring geosynthetic reinforced
20 29	slopes.
30	2-12.2(9-33.4(3)).OPT2.GR2(Geosynthetic Reinforced Slope)
31	Secondary Reinforcement
32	(April 5, 2004)
33	Use in projects where geosynthetic reinforced slopes
34	with secondary reinforcement are specified.
35	
36	2-12.2(9-33.4(3)).OPT3.GR2 (Geosynthetic Reinforced Slope Turf)
37	Reinforcement Mat
38 39	(November 17, 1997) Use in projects where geosynthetic reinforced slopes
39 40	with turf reinforcement mat facing are specified.
41	with tan reinforcement mat labing are specified.
42	<u>2-12.2(9-33.4(4)).GR2</u> (Acceptance by Certificate of Compliance)
43	(Section 9-33.4(4) is supplemented with the following)
44	Must use once preceding any of the following:
45	
46	<u>2-12.2(9-33.4(4)).OPT1.GR2</u> (Reinforced Slope)
47	(November 17, 1997)
48 40	Use in projects requiring geosynthetic reinforced
49 50	slopes.
50 51	2-12.3.GR2 Construction Requirements
52 53	<u>2-12.3.INST1.GR2</u> (Section 2-12.3 is supplemented with the following)

1		Must use once preceding any of the following:
2 3 4 5 6 7 8 9 0	<u>2-12.3.OPT1.GR2</u>	(Geosynthetic Reinforced Slope Construction Requirements) (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes. Slope facing options which include vegetative cover should only be used at sites where the average annual precipitation is 20 inches or more.
10 11 12 13 14 15 16 17	<u>2-12.3.0PT2.FR2</u>	(Turf Reinforced Mat Facing Construction) (August 2, 2010) Use in projects requiring geosynthetic reinforced slopes with turf reinforcement mat facing. In general, use for slopes no steeper than 1.2H:1V. (2 fill-ins)
18 19 20 21 22 23 24 25	<u>2-12.3.OPT3.GR2</u>	(Geosynthetic Wrapped Slope Facing Construction) (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes with geosynthetic wrapped facing. Because of planting requirements, do not use this option for sites where the elevation is over 1500 feet. In general, use for slopes no steeper than 1H:1V.
26 27 28 29 30 31	<u>2-12.3.0PT4.GR2</u>	(Welded Wire Facing Construction) (November 17, 1997) Use in projects requiring geosynthetic reinforced slopes with welded wire facing. In general, use for slopes no steeper than 1H:2V.
32 33 34 35 36	<u>2-12.3.OPT5.GR2</u>	(Installing Guardrail Posts in Geosynthetic) Reinforced Slopes (November 17, 1997) Use in projects requiring guardrail on geosynthetic reinforced slopes.
37 38	<u>2-12.4.GR2</u> Me	easurement
39 40 41	2-12.4.INST1.GR2	(Section 2-12.4 is supplemented with the following) Must use once preceding any of the following:
42 43 44 45 46 47	<u>2-12.4.OPT1.FR2</u>	(Geosynthetic Reinforced Slope) (January 5, 1998) Use in projects requiring geosynthetic reinforced slopes. (1 fill-in)
48	<u>2-12.5.GR2</u> Pa	yment
49 50 51 52	2-12.5.INST1.GR2	(Section 2-12.5 is supplemented with the following) Must use once preceding any of the following:
52 53	2-12.5.OPT1.FR2	(Geosynthetic Reinforced Slope)

(November 17, 1997) Use in projects requiring geosynthetic reinforced slopes. (1 fill-in)