

Project Specific Special Provisions

**SPECIAL PROVISIONS
MODIFYING
SECTION 601: REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

The 2019 Edition of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction shall apply in addition to the following:

601.3.8 Concrete Disposal by Burial

Concrete debris identified in the Plans for removal may be buried on-site according to the following placement requirements in areas preapproved by the Project Manager in lieu of off-site disposal.

Placement of concrete debris in on-site disposal locations shall conform to the requirements of Section 203, the USACE 404 Permit, the NMED 401 Certification, and to the following directions:

1. Concrete debris shall be treated as "rock" when applying the NMDOT specifications.
2. Concrete debris shall be broken down into pieces with no dimension greater than 3 feet.
3. Concrete debris proposed for placement in roadbed and trail embankments shall comply with Section 203.3.5.1 "Roadway Embankments".
4. Concrete debris proposed for placement in non-roadbed embankments shall comply with Section 203.3.5.2 "Non-Roadbed Embankments".
5. The 404 Permit requires that no concrete debris shall be placed below Ordinary High Water Mark (OHWM).
6. The contractor shall dispose of concrete debris at least 4 ft above the design channel bed grade.
7. All concrete debris disposal areas shall be buried with at least 2 feet of compacted clean fill.

Add the following to **601.5.1 Work Included in Payment**:

4. Demolition and/or breaking down concrete debris into pieces.
5. Handling, loading, hauling, unloading, compacting, and burying concrete debris.

September 24, 2023

**SPECIAL PROVISIONS
MODIFYING
SECTION 602: SLOPE AND EROSION PROTECTION STRUCTURES**

The 2019 Edition of the New Mexico Department of Transportation Standard Specifications for Highway and Bridge Construction shall apply in addition to the following:

602.2.1 Classifications

Delete **Table 602.2.1:1** and replace with the following:

**Table 602.2.1:1
Riprap Classifications and Gabion Requirements**

Class	Description	Stone Volume (cubic feet)		Minimum Dimension ^a (inches)	Nominal D50 (feet)	Minimum Blanket Thickness (feet)
		Minimum	Maximum			
A	Wire enclosed riprap	1/6	2/3	4	0.75	--
A	Non-enclosed riprap	1/6	2/3	4	0.75	1.25
B ^b	Non-enclosed riprap	1	2	6	1.25	2.0
C ^b	Non-enclosed riprap	2	4	9	1.5	2.25
D	Derrick stone	See Table 602.2.1:2				3.0
Class 7	Class 7	See Table 602.2.1:3				
Structure Boulder/ Habitat Boulder	Structure Boulder/ Habitat Boulder	See Table 602.2.1:4				
Select Backfill	Selected Backfill	See Table 602.2.1:5				
E	Grouted riprap	1/3	1	3	1.0	1.5
F	Grouted riprap	1	2	6	1.25	2.0
G	Rock plating	--	--	4-8 ^c	--	1.0
N/A	Wrapped rockfacing	--	--	1	--	--
N/A	Gabions	--	--	4-8 ^c	--	--

^a Minimum size in the least dimension.

^b Class B and C stone – at least two (2) Fractured Faces.

^c 70% to 80% of the stone: at least four (4) inches but not more than eight (8) inches in the smallest dimension; 30% to 20% of the stone: no larger than four (4) inches in any dimension.

Add the following to **602.2.1 Classifications**:

602.2.1.1 Class 7 Riprap

Materials are to be quarried from same supplier, quarry, and vein and color consistent with natural surrounding materials to the project site (buff with shading towards beige and grey tones). Basalt rock and sandstone should not be used. Specific gravity of 2.6 minimum allowable. Class 7 Riprap shall meet the gradation requirements in of **Table 602.2.1.1:1**. “Gradation Requirements for Class 7 Riprap” shown below.

**Table 602.2.1.1:1
Gradation Requirements for Class 7 Riprap**

Class, Description	Percent Rock Equal or Smaller By Count, D _x	Range of Intermediate Dimension ¹ , (inches)	Range of Rock Weight ² , (pounds)
Class 7 Riprap ^{3,4}	100	48	9000
	70	31-37	2500 - 4100
	40	23-27.5	950 - 1700
	20	14.5-21	260 - 740
¹ Intermediate dimension measured as the shortest straight-line distance from one side of the rock or rock particle to the other on the maximum project plane (plane of rock or rock particle with the largest projected surface area) ² Weights based on a Specific Gravity of 2.65 and 0.85 cubic volume factor ³ Include spalls and rock fragments to provide a stable dense mass ⁴ Based on gradations from FHWA HEC-23			

602.2.1.2 Structure Boulder and Habitat Boulder

Materials are to be quarried from same supplier, quarry, and vein and color consistent with natural surrounding materials to the project site (buff with shading towards beige and grey tones). Basalt rock and sandstone should not be used. Specific gravity of 2.6 minimum allowable. Boulders should be angular, fully competent, and unfractured monoliths. Field-cutting rocks may be per direction of field engineer only. Boulders should be selected to maximize surface contact between adjoining boulders. Structure Boulders and Habitat Boulders shall meet the gradation requirements in of **Table 602.2.1.2:1** “Gradation Requirements for Structure Boulder and Habitat Boulder” shown below.

**Table 602.2.1.2:1
Gradation Requirements for Structure Boulder and Habitat Boulder**

Class, Description	Percent Rock Equal or Smaller By Count, D _x	Range of Intermediate Dimension ¹ , (inches)	Range of Rock Weight ² , (pounds)
Structure Boulder	100	60	17200
	70	48-54	8800 - 12500
	40	36-42	3700 - 5900
	20	12-24	140 - 1100
¹ Intermediate dimension measured as the shortest straight-line distance from one side of the rock or rock particle to the other on the maximum project plane (plane of rock or rock particle with the largest projected surface area) ² Weights based on a Specific Gravity of 2.65 and 0.85 cubic volume factor			

602.2.1.3 Select Backfill

Materials are to be quarried from same supplier, quarry, and vein or procured, sorted, and blended onsite. Colors will be consistent with natural surrounding materials to the project site (buff with shading towards

beige and grey tones). Specific gravity of 2.6 minimum allowable. Select Backfill shall meet the gradation requirements in of **Table 602.2.1.3:1**. “Gradation Requirements for Select Backfill” shown below.

**Table 602.2.1.3:1
Gradation Requirements for Select Backfill**

Class, Description	Percent Rock Equal or Smaller By Count, D_x	Range of Intermediate Dimension¹, (inches)	Range of Rock Weight², (pounds)
Select Backfill ³	100	10	80
	70	6-7	17 - 27
	40	4-5	5 - 10
	20	1-2	0 - 1
¹ Intermediate dimension measured as the shortest straight-line distance from one side of the rock or rock particle to the other on the maximum project plane (plane of rock or rock particle with the largest projected surface area) ² Weights based on a Specific Gravity of 2.65 and 0.85 cubic volume factor ³ Include up to 20% fine materials to provide a stable dense mass. Minimum 10% fines.			

Add the following to **602.5 Basis of Payment**:

Pay Item	Pay Unit
Riprap Class A	Cubic Yard
Riprap Class A (Non-Enclosed)	Cubic Yard
Riprap Class B	Cubic Yard
Riprap Class C	Cubic Yard
Riprap Class D	Cubic Yard
Riprap Class 7	Cubic Yard
Structure Boulder and Habitat Boulder	Cubic Yard
Select Backfill	Cubic Yard