



AGGREGATE SUBMITTAL
ASTM C-33 Report of Physical Properties

GRP Material Description: Washed, Concrete Rock **Report Date:** May 30, 2023
GRP Material Code: ROCA **Reviewed by:** Dan McDaniel
Source Location/Code: Point of the Mtn / 525 **Report No.:** 525ROCA00223

TEST RESULTS					SIEVE ANALYSIS		
Standard	PHYSICAL PROPERTIES		Result	Test Source	ASTM C136	AASHTO T27	
ASTM C 29 AASHTO T19	Unit Weight	Unit Weight, lbs./cu.ft. =	94		Sieve Size	% Passing	Spec.
	Weight	Voids, % = <input type="checkbox"/> Jigged <input type="checkbox"/> Loose <input checked="" type="checkbox"/> Rodded	2		450 mm (18")		
ASTM D1557 AASHTO T180	Modified Proctor	Max. density, lbs./cu.ft. = Optimum Moisture, % =			375 mm (15")		
ASTM D698 AASHTO T99	Standard Proctor	Max. density, lbs./cu.ft. = Optimum Moisture, % =			300 mm (12")		
ASTM D4318 AASHTO T89/90	Liquid Limit Plastic Limit Plasticity Index	Liquid Limit = Plastic Limit = Plasticity Index =			250 mm (10")		
ASTM C131 AASHTO T96	L.A. Abrasion	Small Coarse Loss, % = Grading/Revolutions, =	22 B/500		225 mm (9")		
ASTM C535	L.A. Abrasion	Large Coarse Loss, % = Grading/Revolutions, =			200 mm (8")		
ASTM C 128 AASHTO T84	Fine Specific Gravity & Absorption	Bulk Specific Gravity (dry) = Bulk Specific Gravity, SSD = Apparent Specific Gravity = Absorption, % =			150 mm (6")		
ASTM C 127 AASHTO T85	Coarse Specific Gravity & Absorption	Bulk Specific Gravity (dry) = Bulk Specific Gravity, SSD = Apparent Specific Gravity = Absorption, % =	2.547 2.580 2.634 1.3		125 mm (5")		
ASTM D2419 AASHTO T176	Sand Equivalent	Sand Equivalent, % =			100 mm (4")		
ASTM C 88 AASHTO T104	Soundness	Coarse Soundness Loss, % = Sodium Sulfate No. of Cycles =	2 5		75.0 mm (3")		
	Soundness	Fine Soundness Loss, % = Magnesium No. of Cycles =			63.0 mm (2-1/2")		
ASTM C 1252 AASHTO T304	Fine Aggregate Angularity	Uncompacted Voids, % = Method C (as received material)			50.0 mm (2")		
ASTM C40 AASHTO T21	Organic Impurities	Coarse Aggregate, % = Fine Aggregate, % =		Lighter Plate #1	37.5 mm (1-1/2")		
ASTM C142 AASHTO T112	Clay / Friable Particles	Coarse Aggregate, % = Fine Aggregate, % =	0		25.0 mm (1")	100	
ASTM C123 AASHTO T113	Lightweight Pieces	Coarse Aggregate, % = Fine Aggregate, % =	0		19.0 mm (3/4")	98	
ASTM D1883 AASHTO T193	CBR	Surcharge = 10 lbs CBR @ 0.1" = Swell% = 0.0% CBR @ 0.2" =			12.5 mm (1/2")	61	
ASTM D5821	Fractured Face	1 or 2 Faces = Fractured Face, % =	1 = 100 2 = 98		9.5 mm (3/8")	31	
ASTM D2487	Soil Classification	Group Symbol = Group Name =			6.3 mm (1/4")		
ASTM D2488	Soil Description & Identification	Group Symbol = Group Name =			4.75 mm (No.4)	2	
					2.36 mm (No.8)	1	
					2.00 mm (No.10)		
					1.18 mm (No.16)		
					0.600 mm (No.30)		
					0.425 mm (No.40)		
					0.300 mm (No.50)		
					0.180 mm (No.80)		
					0.150 mm (No.100)		
					0.075 mm (No.200)	0.5	
					ASTM D422		
					Hydrometer =		
					ASTM C566 AASHTO T255		
					Moisture Content, % =		
					ASTM C136 AASHTO T27		
					Fineness Modulus (FM) =		
					AASHTO M145		
					Classification of Soils =		
					ASTM D4791 Ratio =	5:1	
					Flat & Elongated % =	0	