

300 Sierra Manor Drive, Suite 1  
 Reno, NV 89511

August 7, 2018  
 File: 1009

Mr. Chris Benna  
**RILITE AGGREGATES**  
 3025 Mill Street  
 Reno, NV 89502

**RE: Rilite Pit-1 1/2" Minus Structural Fill**

Dear Mr. Benna:

Per your request, we have performed testing on the 1 1/2" minus structural fill sample and received to our laboratory on August 1<sup>st</sup>. Test results in comparison with Standard Specifications for Public Works are as follows:

Sieve Size Analysis (ASTM C136/C117)		
U.S. Standard	Percent By Weight Passing	
Sieve Size	Structural Fill	Specification*
4 Inch	100	100
2 Inch	100	-
1 1/2 Inch	96	-
1 Inch	86	-
3/4 Inch	81	70-100
1/2 Inch	73	-
3/8 Inch	68	-
No. 4	58	-
No. 8	51	-
No. 10	49	-
No. 16	44	-
No. 30	38	-
No. 40	35	15-65
No. 50	32	-
No. 100	25	-
No. 200	18.4	5-20

Plasticity Index (ASTM D4318)		
	Rilite Pit	Specification*
Liquid Limit	33	35 Max
Plasticity Index	11	12 Max

Proctor (ASTM-D1557)		
	Structural Fill	Specification*
Maximum Dry Density	118.5 pcf	-
Optimum Moisture	12.5 %	-

\*Per Section 200.01.09 of Standard Specifications for Public Works Construction (Washoe County, Sparks, Reno, Carson City and Douglas County), 2016

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**RILITE AGGREGATES**  
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We appreciate this opportunity to provide our laboratory testing services. If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

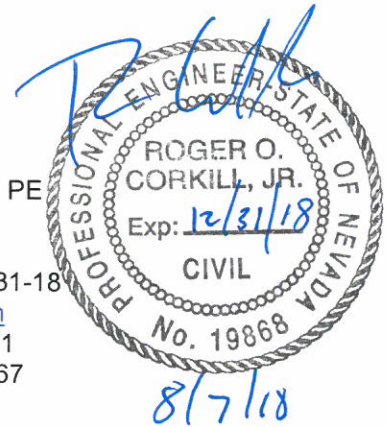
**CONSTRUCTION MATERIALS ENGINEERS, INC.**

  
Justin V. Legg  
Project Manager  
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Direct: 775-737-7567  
Mobile: 775-772-0658

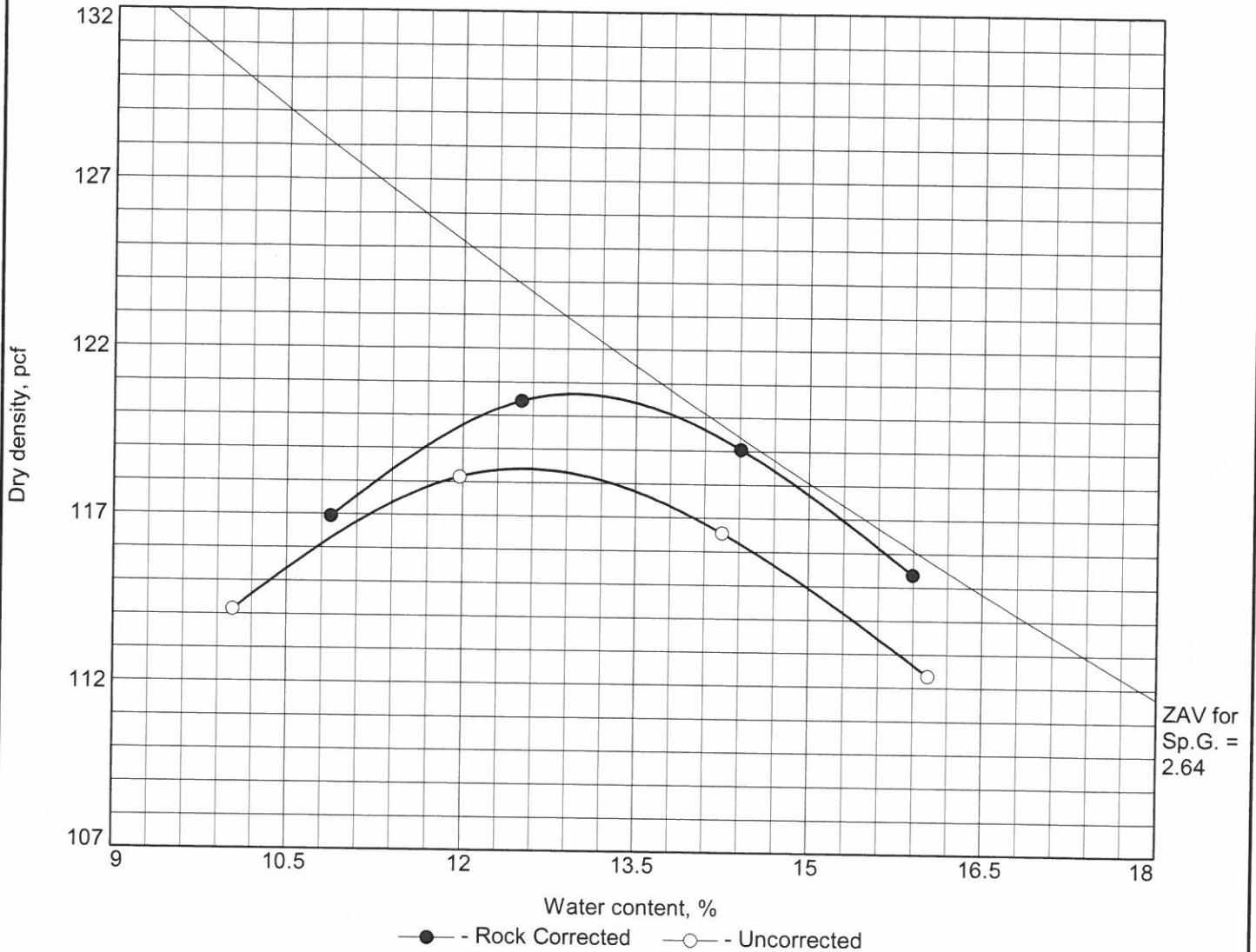
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Roger O. Corkill Jr., PE  
Project Manager  
RE Number 19868  
Expiration Date 12-31-18  
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# MOISTURE DENSITY CURVE



Test specification: ASTM D 1557-12 Method C Modified  
 ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
							16.4	

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 120.5 pcf	118.5 pcf	1 1/2" MINUS STRUCTURAL FILL
Optimum moisture = 13.0 %	12.5 %	

<b>Project No.</b> 1009 <b>Client:</b> RILITE AGGREGATES <b>Project:</b> RILITE AGGREGATES-QUALITY TESTING  ○ <b>Location:</b> PLANT STOCKPILE <b>Sample Number:</b> 32779	<b>Remarks:</b> RECEIVED 8/1/2018
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Figure

**Tested By:** G. MORALES      **Checked By:** S. VINEIS