

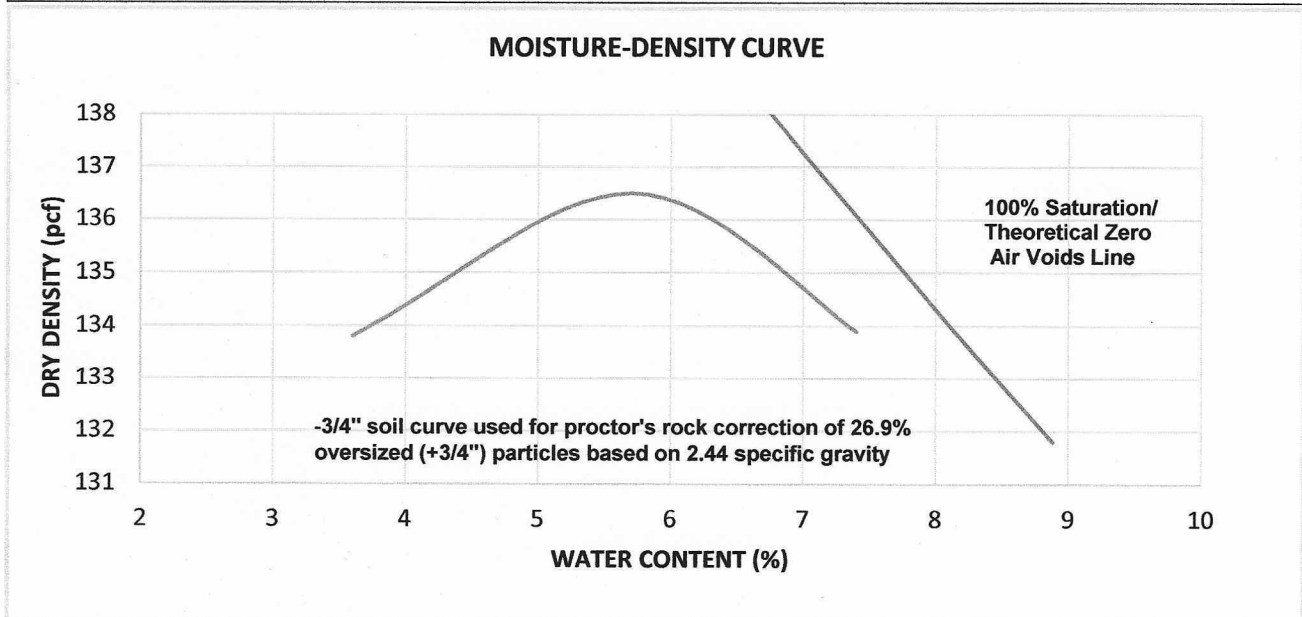


# CONSTRUCTION TESTING & ENGINEERING, INC.

P.O. BOX 271125, SALT LAKE CITY, UTAH 84127-1125  
(801) 972-4001 • Construction.Testing@gmail.com

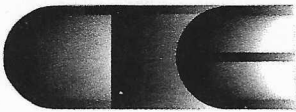
## SOIL MOISTURE-DENSITY RELATIONSHIP

<b>CLIENT:</b>	Lakeview Rock Products	<b>DATE:</b>	March 29, 2024, Fri.
<b>PROJECT:</b>	QC Testing, North Pit	<b>WORK ORDER:</b>	3639
<b>CONTRACTOR:</b>	Lakeview Rock Products	<b>FILE:</b>	125-24
<b>TEST METHOD:</b>	ASTM D 1557, Method D (corrected for oversize [+3/4"] particles per ASTM D 4718, ASTM C 127)		
<b>PROCTOR DATA</b>			
<b>SOURCE OF MATERIAL:</b>	North Pit Stockpile		
<b>OVERSIZED PARTICLE CORRECTED MAXIMUM DRY DENSITY(PROCTOR RESULT):</b>	140.4		
<b>OVERSIZED PARTICLE CORRECTED OPTIMUM MOISTURE CONTENT (PROCTOR RESULT):</b>	4.7		
<b>-3/4" MAXIMUM DRY DENSITY:</b>	136.5		
<b>-3/4" OPTIMUM MOISTURE CONTENT:</b>	5.7		
<b>MOISTURE CONTENT AS RECEIVED:</b>	4.9		
<b>QUALITATIVE / PHYSICAL SOIL DESCRIPTION (ASTM D 2487 / D 2488): 2" A-1-b Fill:</b> Coarse-grained soil comprised of 54.8% well-graded, predominantly angular to subangular minus 1.5" gravel; 27.9% well-graded angular sand; and 17.3% non-plastic silt. Soil color: Medium to dark tan at optimum moisture; light tan when dry. Note: See related/attached sieve analysis test report (pg 2).			



CONSTRUCTION TESTING & ENGINEERING, INC.  
CERTIFIED TEST REPORT:

David K. Megeath, Manager



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## SOILS TEST REPORT

CLIENT: Lakeview Rock Products  
PROJECT: QC Testing, North Pit  
RE: 2" A-1-b fill

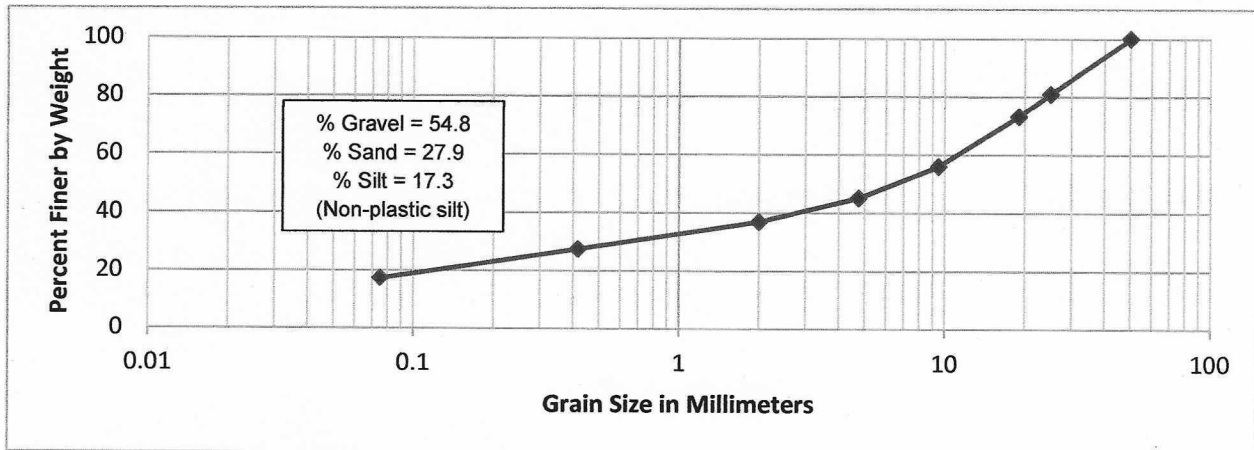
DATE: March 28, 2024, Fri.  
FILE #: 125-24 / WO #: 3639

SPECIFICATION REQUIREMENTS: AASHTO A-1-b tolerances, see below

### SIEVE ANALYSIS RESULTS ASTM C 117 / C 136

Sieve Size	Sieve Opening in mm	Individual % Retained	Accumulated % Retained	**RESULTS** % Passing	Ideal/Tolerance Gradation % Passing
2"	50.0	0	0	100	100
1"	25.0	19.2	19.2	80.8	---
3/4"	19.0	7.7	26.9	73.1	---
3/8"	9.5	17.1	44.0	56.0	---
#4	4.75	10.8	54.8	45.2	---
#10	2.0	8.3	63.1	36.9	---
#40	.417	9.4	72.5	27.5	50% max
#200	.075	10.2	82.7	17.3	25% max

Test sample dry weight: 5280 grams (split sample)



TEST SUMMARY: Fill meets A-1-b tolerances.

#### REMARKS:

Source of material: North Pit stockpile  
Gravel, sand physical characteristics: Predominantly angular  
See related/attached proctor test report (pg 1).

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