



300 Sierra Manor Drive, Suite 1
 Reno, NV 89511

April 20, 2020
 File: 1013

Mr. Colton Hiatt
A&K EARTHMOVERS, INC.
 PO Box 1059
 Fallon, NV 89407

RE: Aggregate Base Type 2 Class B – Bella Vista Pit

Dear Mr. Hiatt:

Per your request, we have performed testing on the Type 2, Class B aggregate base delivered to our laboratory on April 7th. Test results in comparison with local standard specifications are as follows:

Sieve Size Analysis (ASTM C136/C117)		
U.S. Standard Sieve Size	Percent By Weight Passing	
	Bella Vista Pit	Local Standard Specification*
1 Inch	100	100
¾ Inch	94	90 - 100
½ Inch	72	-
¾ Inch	62	-
No. 4	41	35 - 65
No. 8	28	-
No. 10	26	-
No. 16	20	15 - 40
No. 30	15	-
No. 40	14	-
No. 50	12	-
No. 100	10	-
No. 200	8.4	2 - 10

Fractured Faces (Nev. T230)	
Bella Vista Pit	Specification*
100.0%	35% Minimum

Atterberg Limits (ASTM D4318)		
	Bella Vista Pit	Specification*
Liquid Limit	No Value	35 Maximum
Plasticity Index	Nonplastic	8 Maximum

R-Value (ASTM D2844)	
Bella Vista Pit	Specification*
81	70 Minimum

*Standard Specifications for Public Works Construction (Washoe County, Sparks, Reno, Carson City and Douglas County), 2012 and NDOT Standard Specifications for Road and Bridge Construction, 2014.

**Does not meet specification.

Mr. Colton Hiatt
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Los Angeles Abrasion (ASTM C131)		
	Bella Vista Pit	Specification*
Percent Loss After 500 Revolutions (Grading B)	28.4%	45% Maximum

*Standard Specifications for Public Works Construction (Washoe County, Sparks, Reno, Carson City and Douglas County), 2012 and NDOT Standard Specifications for Road and Bridge Construction, 2014.

Moisture Density (ASTM D1557C)	
Maximum Dry Density	121.6 PCF
Optimum Moisture	10.0%

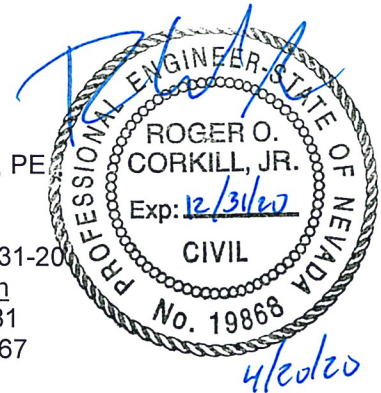
We appreciate this opportunity to provide our laboratory testing services. If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

CONSTRUCTION MATERIALS ENGINEERS, INC.

Steven L. Vineis
 Laboratory Manager
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Roger O. Corkill Jr., PE
 Project Manager
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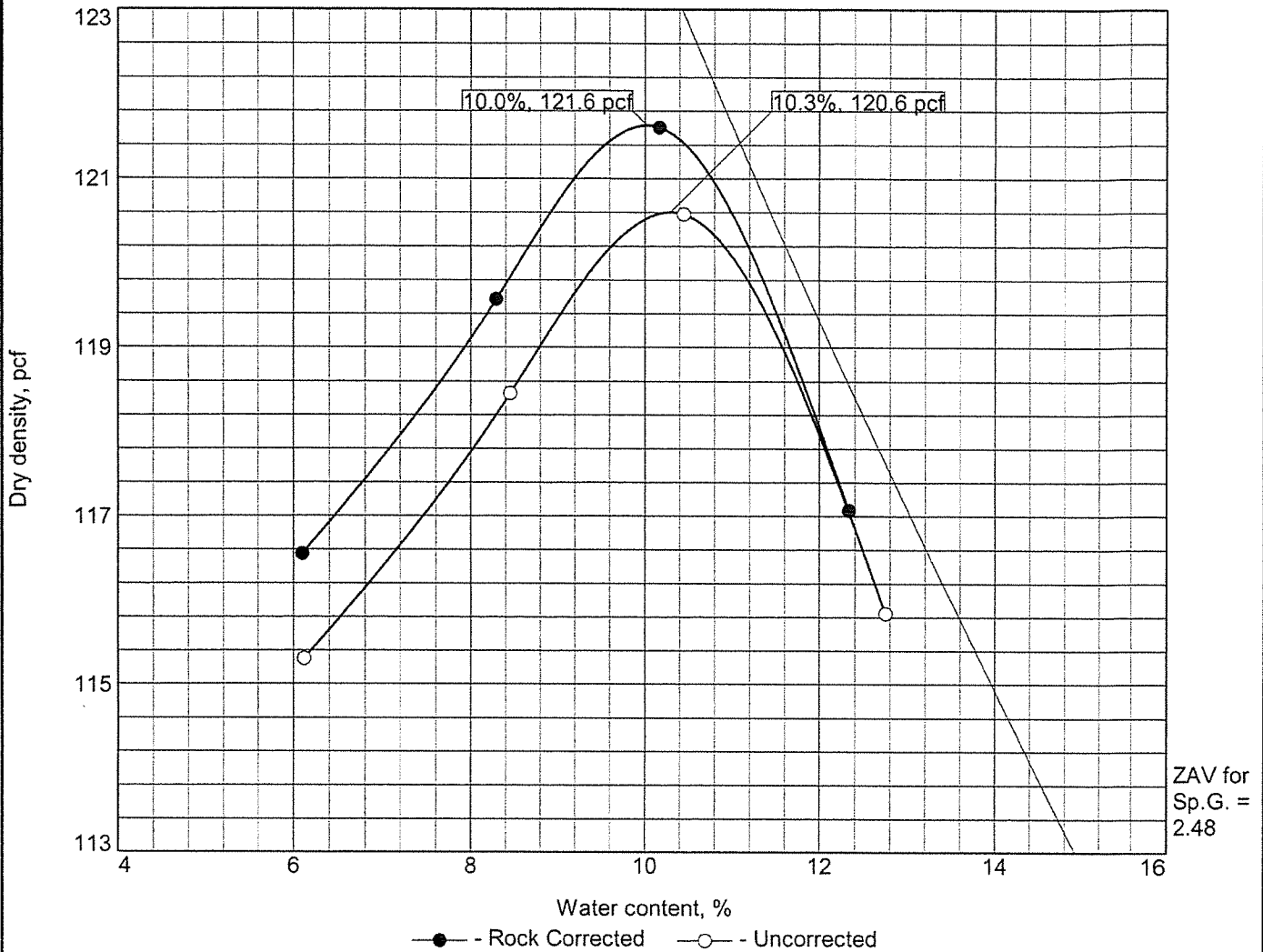


SLV:ROC:lnh
 Enclosures

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COMPACTION TEST REPORT



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						
							6.0	8.4

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 121.6 pcf	120.6 pcf	AGGREGATE BASE TYPE 2 CLASS B BELLA VISTA PIT
Optimum moisture = 10.0 %	10.3 %	

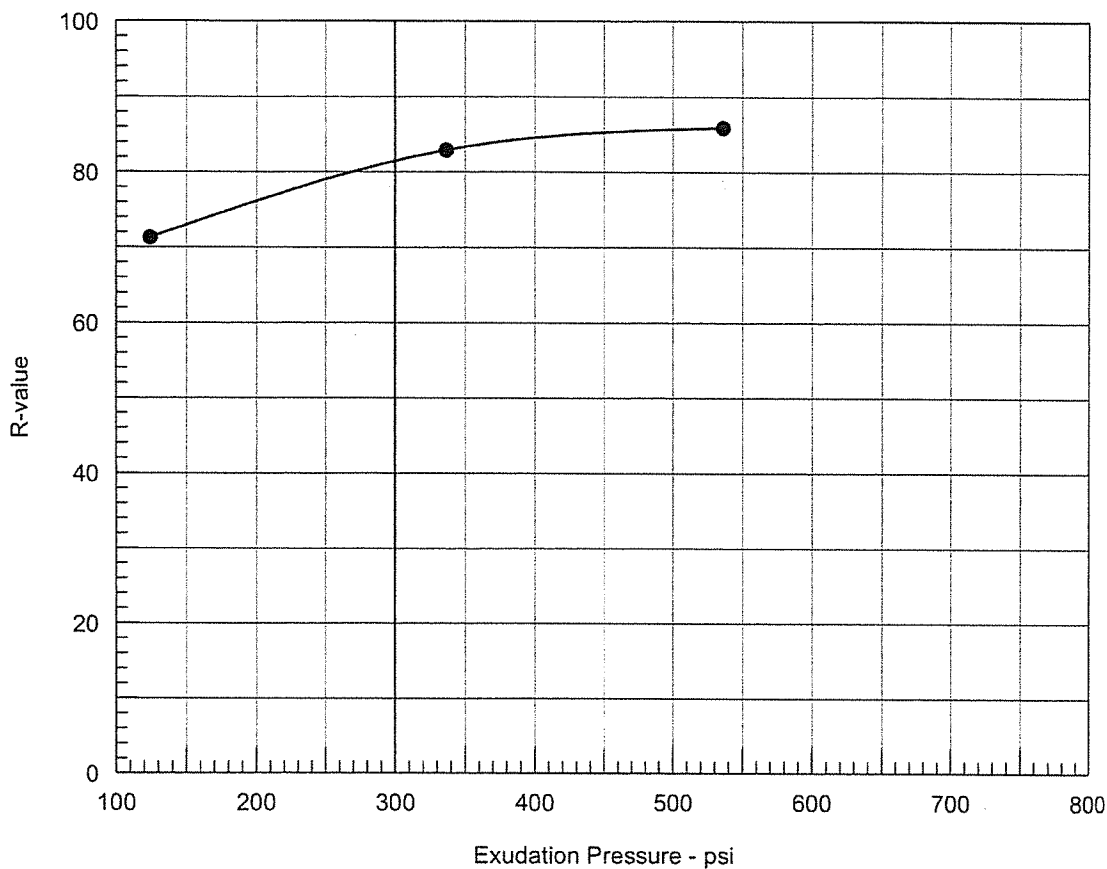
Project No. 1013 Client: A & K EARTHMOVERS, INC. Project: BELLA VISTA PIT 2	Remarks: RECEIVED 4/7/2020
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Location: PLANT STOCKPILE Sample Number: 34196	
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Figure

Tested By: S.VINEIS Checked By: S.VINEIS

R-VALUE TEST REPORT



Resistance R-Value and Expansion Pressure - ASTM D2844

No.	Compact. Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	350	106.2	11.5	0.00	14	2.49	536	86	86
2	350	110.9	11.3	0.00	17	2.43	337	84	83
3	350	103.4	17.2	0.00	32	2.45	124	71	71

Test Results	Material Description
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R-value at 300 psi exudation pressure = 81

AGGREGATE BASE
TYPE 2 CLASS B
BELLA VISTA PIT

Project No.: 1013
Project: BELLA VISTA PIT 2
Location: PLANT STOCKPILE
Sample Number: 34196
Date: 4/13/2020

Tested by: S. VINEIS
Checked by: S. VINEIS
Remarks:
RECEIVED 4/7/2020



Figure 1A