



ENTECH
ENGINEERING, INC.

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ACCEPTED for FILE
Engineering Review
06/08/2022 1:34:30 PM
d.dnjikamp
EPC Planning & Community
Development Department

May 25, 2022

Classic Communities
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Attn: Mark Sherwood

Re: Cement Stabilized Subgrade Results - Laboratory Testing
Forest Lakes Filing No. 6, Phase No. 2
El Paso County, Colorado

Dear Mr. Sherwood:

As requested, personnel of Entech Engineering, Inc. have performed strength testing on two sets of soil/cement composite samples for the above referenced project. Testing was performed on soil samples prepared with 2% and 4% Portland Cement Type 1/2, from Martin Marietta, near Pueblo, Colorado.

A compression strength of 160 psi is recommended for cement stabilized subgrade. The 5-day average strength value of the 2% mix was 212 psi. The 5-day average strength value of the 4% mix was 326 psi.

A 2% mix is recommended based on the laboratory test results. A summary of the testing results is attached.

Pending the results of the field samples strength testing, microfracturing of the stabilized subgrade may be required. Soil strengths in excess of 200 psi require microfracturing.

We trust this has provided you with the information you required. If you have any questions or need additional information, please do not hesitate to contact us.

Respectfully Submitted,

ENTECH ENGINEERING, INC.

Daniel P. Stegman

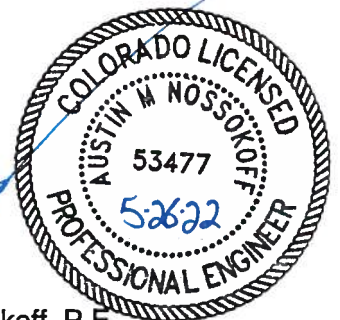
DPS/bs

Encl.

Entech Job No. 220742
AAprojects/2022/220742 cssr - lab

Reviewed by:

Austin M. Nossokoff, P.E.



SUMMARY OF CTS TEST RESULTS
LAB TESTING

CLIENT CLASSIC COMMUNITIES
 PROJECT FOREST LAKES, FILING 6 - PHASE 2
 FIELD SAMPLE ID TB-4 @ 0-3'
 SOIL ADDITIVE TYPE I/II CEMENT

JOB NO 220742
 DATE 5/13/22
 BY BL

ADDITIVE %	WATER %	DENSITY (dry)	AGE (days)	STRENGTH (psi)
2	7.2	123.7	5	226
2	7.2	124.0	5	232
2	7.2	124.2	5	178
AVERAGE				212
4	7.2	124.1	5	326
4	7.2	127.0	5	326
4	7.2	124.8	5	325
AVERAGE				326

CURING METHOD

100° HUMIDIFIED OVEN