



ENTECH
ENGINEERING, INC.

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September 7, 2021

Tech Contractors
3575 Kenyon Street, Suite 200
San Diego, California 92110

Attn: Raul Guzman

Re: Cement Stabilized Subgrade Results - Laboratory Testing
Rolling Hills at Meridian Ranch Filing No. 2, Phase 1
El Paso County, Colorado

Ref: Pavement Recommendations Report by Entech Engineering, Inc., dated September 7, 2021, Entech Job No. 212273

Dear Mr. Guzman:

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

A minimum compression strength of 160 psi is recommended for cement stabilized subgrade. The 5-day average strength value of the 2% mix was 271 psi. The 5-day average strength value of the 4% mix was 361 psi. A 2% mix is recommended based on the laboratory test results. A summary of the testing results is attached.

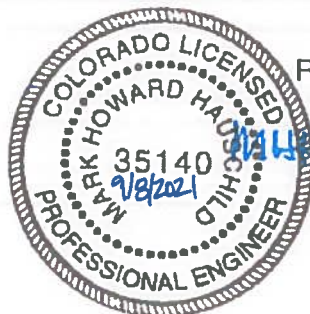
Pending the results of the field density testing, microfracturing of the stabilized subgrade will likely be required. Soil strengths in excess 200 psi require microfracturing.

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



Reviewed by:

Mark H. Hauschild, P.E.
Senior Engineer

DPS/bs.

Encl.

Entech Job No. 212273
AAprojects/2021/212273 - cssr — lab

EPC Project No. SF-2020

SUMMARY OF CTS TEST RESULTS
LAB TESTING

CLIENT TECH CONTRACTORS
 PROJECT ROLLING HILLS, FILING 2
 FIELD SAMPLE ID TB-2 @ 0-3'
 SOIL ADDITIVE TYPE I/II CEMENT

JOB NO 212273
 DATE 8/27/21
 BY BL

<i>ADDITIVE %</i>	<i>WATER %</i>	<i>DENSITY (dry)</i>	<i>AGE (days)</i>	<i>STRENGTH (psi)</i>
2	9.1	112.2	5	274
2	9.1	111.7	5	285
2	9.1	111.7	5	254
AVERAGE:				271
4	9.1	112.8	5	383
4	9.1	112.2	5	344
4	9.1	112.0	5	357
AVERAGE:				361

CURING METHOD

100° HUMIDIFIED OVEN