



**ENTECH**  
ENGINEERING, INC.

505 ELKTON DRIVE  
COLORADO SPRINGS, CO 80907  
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August 23, 2021

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

Attn: Adam Doyle

Re: Cement Stabilized Subgrade – Field Tests  
Poco Road and Aspen Valley Road  
Retreat at Timber Ridge, Filing No. 1  
El Paso County, Colorado

Dear Mr. Doyle:

As requested, personnel of Entech Engineering, Inc. have performed strength testing on (1) set of three soil/cement composite samples and two sets of (6) soil/cement composite samples from the above referenced project. Testing was performed on field soil samples prepared with 2% Portland Cement Type 1/2, from Martin-Marietta near Pueblo, Colorado.

The average 7-day strength value of the 2% mix was 218 psi. Due to the strength, microfracturing of the subgrade is recommended. A summary of the testing results is attached.

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

Entech Job No. 211574  
AAprojects/2021/210984 css- field test

Reviewed by:

Joseph C. Goode Jr., P.E.  
President

## SUMMARY OF CTS TEST RESULTS FIELD TESTING

CLIENT CLASSIC COMMUNITIES  
 PROJECT RETREAT AT TIMBERRIDGE  
 FIELD SAMPLE ID SAND, CLAYEY, BROWN  
 SOIL ADDITIVE TYPE I/II CEMENT

JOB NO 211574  
 DATE 8/23/21  
 BY BL

| <i>ADDITIVE %</i>  | <i>DATE SAMPLED</i> | <i>WATER %</i> | <i>DENSITY (dry)</i> | <i>AGE (days)</i> | <i>STRENGTH (psi)</i> |
|--|---------------------|----------------|----------------------|-------------------|-----------------------|
| <b>POCO ROAD, 50' N. OFF INTERSECTION WITH ASPEN VALLEY ROAD</b>   |                     |                |                      |                   |                       |
| 2  | 08/14/21            | 10.1           | 127.5                | 5                 | 205                   |
| 2  | 08/14/21            | 10.1           | 126.4                | 7                 | 213                   |
| 2  | 08/14/21            | 10.1           | 127.9                | 7                 | 216                   |
| AVERAGE:   |                     |                |                      |                   | <b>214</b>            |
| <b>ASPEN VALLEY ROAD, 50' E. OFF INTERSECTION WITH POCO ROAD</b>   |                     |                |                      |                   |                       |
| 2  | 08/16/21            | 10.9           | 130.3                | 7                 | 210                   |
| 2  | 08/16/21            | 10.9           | 130.8                | 7                 | 224                   |
| 2  | 08/16/21            | 10.9           | 129.8                | 7                 | 221                   |
| 2  | 08/16/21            | 10.9           | 130.1                | 7                 | 224                   |
| 2  | 08/16/21            | 10.9           | 130.3                | 7                 | 229                   |
| 2  | 08/16/21            | 10.9           | 130.7                | 7                 | 214                   |
| AVERAGE:   |                     |                |                      |                   | <b>220</b>            |
| <b>ASPEN VALLEY ROAD, 1000' E. OFF INTERSECTION WITH POCO ROAD</b> |                     |                |                      |                   |                       |
| 2  | 08/16/21            | 11.2           | 131.5                | 7                 | 216                   |
| 2  | 08/16/21            | 11.2           | 131.1                | 7                 | 226                   |
| 2  | 08/16/21            | 11.2           | 131.2                | 7                 | 242                   |
| 2  | 08/16/21            | 11.2           | 131.4                | 7                 | 206                   |
| 2  | 08/16/21            | 11.2           | 130.5                | 7                 | 229                   |
| 2  | 08/16/21            | 11.2           | 129.6                | 7                 | 192                   |
| AVERAGE:   |                     |                |                      |                   | <b>219</b>            |

CURING METHOD  
100° HUMIDIFIED OVEN

TOTAL AVERAGE: **218**