



ENTECH
ENGINEERING, INC.

505 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
PHONE (719) 531-5599
FAX (719) 531-5238

October 30, 2020

FLRD #5
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Attn: Jim Boulton

Re: Density Testing – Cement-Treated Soil
Forest Lakes Residential Development, Filing #5
Colorado Springs, Colorado
Report No. 2, Tests 16 – 28

Dear Mr. Boulton,

As requested, personnel of Entech Engineering, Inc. have performed density testing at the above referenced site.

Density testing on this site was performed on October 6 – 8, 2020. The density testing indicates that the materials have been adequately compacted at the depths and in the locations noted. Results of the density tests are enclosed with this letter.

We trust that this has provided you with the information you require. Should you have any questions or need further information, please do not hesitate to contact us.

Respectfully Submitted,

ENTECH ENGINEERING, INC.

Mark H. Hauschild, P.E.
Senior Engineer

MHH/bo

Enclosure

Entech Job No. 192273

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Client: FLRD #5	Entech Job #: 192273.6	Proctor Value Key: M = modified, ASTM D-1557
Project: Forest Lakes Residential Development, Filing 5	Tested By: S. Reardanz	S = standard, ASTM D-698
Subject: Cement-Treated Soil	Report Date: 10-29-2020	T = AASHTO, T-180

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
16	Cement-treated soil, 850' east of intersection with Forest Lakes Drive, Mesa Top Road, northeastbound lane, at grade.	10/6/20	100	95	8.1	SM	M - 134.2 @ 6.8	<input type="checkbox"/>
17	Cement-treated soil, 900' east of intersection with Forest Lakes Drive, Mesa Top Road, southwestbound lane, at grade.	10/6/20	99	95	8.0	SM	M - 134.2 @ 6.8	<input type="checkbox"/>
18	Cement-treated soil, 400' east of intersection with Forest Lakes Drive, Mesa Top Road, northeastbound lane, at grade.	10/6/20	99	95	7.9	SM	M - 134.2 @ 6.8	<input type="checkbox"/>
19	Cement-treated soil, 300' east of intersection with Forest Lakes Drive, Mesa Top Road, southwestbound lane, at grade.	10/6/20	99	95	8.3	SM	M - 134.2 @ 6.8	<input type="checkbox"/>
20	Cement-treated soil, 100' west of intersection with Forest Lakes Drive, Mesa Top Road, northeastbound lane, at grade.	10/7/20	100	95	8.0	SM	M - 134.2 @ 6.8	<input type="checkbox"/>
21	Cement-treated soil, 5' north of edge of pavement on property line for Lots 18 & 19, Forest Lakes Drive, at grade.	10/7/20	100	95	7.8	SM	M - 134.2 @ 6.8	<input type="checkbox"/>
22	Cement-treated soil, 6' north of edge of pavement on property line for Lots 13 & 14, Forest Lakes Drive, at grade.	10/7/20	99	95	8.3	SM	M - 134.2 @ 6.8	<input type="checkbox"/>
23	Cement-treated soil, 7' south of edge of pavement on property line for Lots 24 & 25, Forest Lakes Drive, at grade.	10/7/20	100	95	8.3	SM	M - 134.2 @ 6.8	<input type="checkbox"/>
24	Cement-treated soil, 4' south of edge of pavement on property line for Lots 26 & 27, Forest Lakes Drive, at grade.	10/7/20	99	95	7.5	SM	M - 134.2 @ 6.8	<input type="checkbox"/>
25	Cement-treated soil, 6' south of edge of pavement on property line for Lots 32 & 33, Forest Lakes Drive, at grade.	10/8/20	99	95	7.6	SM	M - 134.2 @ 6.8	<input type="checkbox"/>

Comments:

Scope of Observation: PERIODIC; CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

All dimensions are approximate. Ci. = Centerline



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FIELD DENSITY RESULTS

Marb H. Haasebild, P.E.


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Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
26	Cement-treated soil, 8' north of edge of pavement and 10' west of property line for Lots 2 & 3, Forest Lakes Drive, at grade.	10/8/20	99	95	8.3	SM	M - 134.2 @ 6.8	<input checked="" type="checkbox"/>
27	Cement-treated soil, 6' north of edge of pavement and 350' east of property line for Lots 1 & 2, Forest Lakes Drive, at grade.	10/8/20	99	95	7.7	SM	M - 134.2 @ 6.8	<input type="checkbox"/>
28	Cement-treated soil, 4' south of edge of pavement and 550' east of property line for Lots 32 & 33, Forest Lakes Drive, at grade.	10/8/20	100	95	8.1	SM	M - 134.2 @ 6.8	<input type="checkbox"/>

Comments:

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FIELD DENSITY RESULTS

Marcel H. Haasebild, P.E.