



ENTECH
ENGINEERING, INC.

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

November 22, 2021

FLRD #6
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Attn: Jim Boulton

Re: Density Testing – Water
Forest Lakes Residential Development, Filing 6
Colorado Springs, Colorado
Report No. 2, Tests 186–257

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 November 9 through November 12, 2021. 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

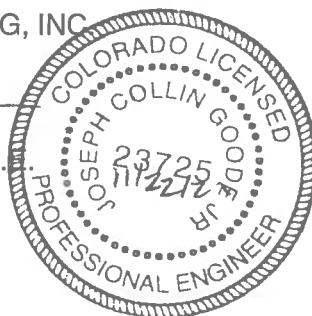

Joseph C. Goode, Jr., P.E.
President

JCG/bk

Enclosure

Entech Job No. 201326

F:\AA projects\2020\201326-FLRD-Forest Lakes F6-110-ConMat\201326_3cl2.docx



Client: FLRD #6	Entech Job #: 201326.3	Proctor Value Key: M = modified, ASTM D-1557
Project: Forest Lakes Residential Development, Filing 6	Tested By: J. Claton	S = standard, ASTM D-698
Subject: Water	Report Date: 11-22-2021	T = AASHTO, T-180

Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
186	Service to Lot #6 on Mesa Top Drive North, 5' below grade.	11/9/21	96	95	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
187	Service to Lot #6 on Mesa Top Drive North, 3' below grade.	11/9/21	95	95	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
188	Service to Lot #6 on Mesa Top Drive North, 1' below grade.	11/9/21	97	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
189	Service to Lot #6 on Mesa Top Drive North, at grade.	11/9/21	97	95	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
190	Service to Lot #7 on Mesa Top Drive North, 5' below grade.	11/9/21	98	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
191	Service to Lot #7 on Mesa Top Drive North, 3' below grade.	11/9/21	96	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
192	Service to Lot #7 on Mesa Top Drive North, 1' below grade.	11/9/21	96	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
193	Service to Lot #7 on Mesa Top Drive North, at grade.	11/9/21	97	95	8.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
194	Station #23 + 50 on Mesa Top Drive North, water main, 5' below grade.	11/9/21	96	95	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
195	Station #23 + 50 on Mesa Top Drive North, water main, 3' below grade.	11/9/21	97	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

Comments:

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

All dimensions are approximate. Cl. = Centerline



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Colorado Springs, CO 80907
(719) 531-5599 • (719) 531-5238 (fax)

FIELD DENSITY RESULTS

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

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Subject: Water	Report Date: 11-22-2021	T = AASHTO, T-180

Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
196	Station #23 + 50 on Mesa Top Drive North, water main, 1' below grade.	11/9/21	96	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
197	Station #23 + 50 on Mesa Top Drive North, water main, at grade.	11/9/21	95	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
198	Water Service to Lot #32 on Mesa Top Drive North, 5' below grade.	11/9/21	97	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
199	Water Service to Lot #32 on Mesa Top Drive North, 3' below grade.	11/9/21	96	95	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
200	Water Service to Lot #32 on Mesa Top Drive North, 1' below grade.	11/9/21	98	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
201	Water Service to Lot #32 on Mesa Top Drive North, at grade.	11/9/21	97	95	6.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
202	Water Service to Lot #33 on Mesa Top Drive North, 5' below grade.	11/9/21	96	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
203	Water Service to Lot #33 on Mesa Top Drive North, 3' below grade.	11/9/21	96	95	6.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
204	Water Service to Lot #33 on Mesa Top Drive North, 1' below grade.	11/9/21	98	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
205	Water Service to Lot #33 on Mesa Top Drive North, at grade.	11/9/21	97	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

Comments:

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Project: Forest Lakes Residential Development, Filing 6	Tested By: J. Claton	S = standard, ASTM D-698
Subject: Water	Report Date: 11-22-2021	T = AASHTO, T-180

Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
206	Main, Station 21 + 25, Mesa Top Drive North, 5' below grade.	11/10/21	96	95	8.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
207	Main, Station 21 + 25, Mesa Top Drive North, 3' below grade.	11/10/21	96	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
208	Main, Station 21 + 25, Mesa Top Drive North, 1' below grade.	11/10/21	95	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
209	Main, Station 21 + 25, Mesa Top Drive North, at grade.	11/10/21	96	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
210	Service, Lot #8, Mesa Top Drive North, 5' below grade.	11/10/21	96	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
211	Service, Lot #8, Mesa Top Drive North, 3' below grade.	11/10/21	96	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
212	Service, Lot #8, Mesa Top Drive North, 1' below grade.	11/10/21	96	95	8.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
213	Service, Lot #8, Mesa Top Drive North, at grade.	11/10/21	96	95	7.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
214	Service, Lot #9, Mesa Top Drive North, 5' below grade.	11/10/21	96	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
215	Service, Lot #9, Mesa Top Drive North, 3' below grade.	11/10/21	96	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

Comments:

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Subject: Water	Report Date: 11-22-2021	T = AASHTO, T-180

Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
216	Service, Lot #9, Mesa Top Drive North, 1' below grade.	11/10/21	96	95	8.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
217	Service, Lot #9, Mesa Top Drive North, at grade.	11/10/21	96	95	7.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
218	Service, Lot #10, Mesa Top Drive North, 5' below grade.	11/10/21	96	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
219	Service, Lot #10, Mesa Top Drive North, 3' below grade.	11/10/21	96	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
220	Service, Lot #10, Mesa Top Drive North, 1' below grade.	11/10/21	96	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
221	Service, Lot #10, Mesa Top Drive North, at grade.	11/10/21	97	95	8.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
222	Service, Lot #31, Mesa Top Drive North, 5' below grade.	11/10/21	96	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
223	Service, Lot #31, Mesa Top Drive North, 3' below grade.	11/10/21	95	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
224	Service, Lot #31, Mesa Top Drive North, 1' below grade.	11/10/21	96	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
226	Water service to Lot #29 on Mesa Top Drive North, 5' below grade.	11/11/21	96	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Project: Forest Lakes Residential Development, Filing 6	Tested By: J. Claton	
Subject: Water	Report Date: 11-22-2021	

Test #	Test Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
227	Water service to Lot #29 on Mesa Top Drive North, 3' below grade.	11/11/21	96	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
228	Water service to Lot #29 on Mesa Top Drive North, 1' below grade.	11/11/21	95	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
229	Water service to Lot #29 on Mesa Top Drive North, at grade.	11/11/21	96	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
230	Water service to Lot #12 on Mesa Top Drive North, 5' below grade.	11/11/21	97	95	7.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
231	Water service to Lot #12 on Mesa Top Drive North, 3' below grade.	11/11/21	95	95	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
232	Water service to Lot #12 on Mesa Top Drive North, 1' below grade.	11/11/21	96	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
233	Water service to Lot #12 on Mesa Top Drive North, at grade.	11/11/21	97	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
234	Water service to Lot #30 on Mesa Top Drive North, 6' below grade.	11/11/21	95	95	8.0	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
235	Water service to Lot #30 on Mesa Top Drive North, 4' below grade.	11/11/21	97	95	7.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
236	Water service to Lot #30 on Mesa Top Drive North, 2' below grade.	11/11/21	97	95	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
237	Water service to Lot #30 on Mesa Top Drive North, at grade.	11/11/21	96	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
238	Water service to Lot #11 on Mesa Top Drive North, 6' below grade.	11/11/21	95	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
239	Water service to Lot #11 on Mesa Top Drive North, 4' below grade.	11/11/21	97	95	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
240	Water service to Lot #11 on Mesa Top Drive North, 2' below grade.	11/11/21	98	95	6.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
241	Water service to Lot #11 on Mesa Top Drive North, at grade.	11/11/21	97	95	7.6	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
242	Water service to Lot #13 on Mesa Top Drive North, 6' below grade.	11/12/21	96	95	7.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
243	Water service to Lot #13 on Mesa Top Drive North, 4' below grade.	11/12/21	96	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
244	Water service to Lot #13 on Mesa Top Drive North, 2' below grade.	11/12/21	97	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
245	Water service to Lot #13 on Mesa Top Drive North, at grade.	11/12/21	96	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
246	Water service to Lot #27 on Mesa Top Drive North, 6' below grade.	11/12/21	95	95	8.3	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
247	Water service to Lot #27 on Mesa Top Drive North, 4' below grade.	11/12/21	97	95	8.7	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
248	Water service to Lot #27 on Mesa Top Drive North, 2' below grade.	11/12/21	96	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
249	Water service to Lot #27 on Mesa Top Drive North, at grade.	11/12/21	98	95	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
250	Water service to Lot #28, 6' below grade.	11/12/21	96	95	8.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
251	Water service to Lot #28, 4' below grade.	11/12/21	96	95	7.4	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
252	Water service to Lot #28, 2' below grade.	11/12/21	95	95	6.8	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
253	Water service to Lot #28, at grade.	11/12/21	98	95	6.9	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
254	Water service to Lot #19 + 25 on Mesa Top Drive North, 6' below grade.	11/12/21	97	95	7.2	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
255	Water service to Lot #19 + 25 on Mesa Top Drive North, 4' below grade.	11/12/21	97	95	6.5	SM	M - 130.3 @ 7.6	<input type="checkbox"/>
256	Water service to Lot #19 + 25 on Mesa Top Drive North, 2' below grade.	11/12/21	96	95	6.1	SM	M - 130.3 @ 7.6	<input type="checkbox"/>

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Subject: Water	Report Date: 11-22-2021	T = AASHTO, T-180

Test #	Location	Testing Date	Percent Compaction	Percent Required	Percent Moisture	Soil Type	Proctor Type/Value	Pass/Fail
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257	Water service to Lot #19 + 25 on Mesa Top Drive North, at grade.	11/12/21	98	95	5.8	SM	M - 130.3 @ 7.6	<input checked="" type="checkbox"/>
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