



Entech Engineering
505 Elkton Dr.
Colorado Springs, CO 80907
Phone: 719-531-5599

Density of Asphalt

Client:

ProTerra Properties, LLC
1864 Woodmoor Drive Ste 100
Monument, CO 80132

Project:

240824
Winsome F3
Winsome F3
Colorado Springs, CO

Test Results

Test #	Test Date	Test Location	Lift Thickness (inches)	Mix Design	Max Density (pcf)	In Place Density (pcf)	Percent Comp.	Min/Max Comp. (%)	Rem. Code	Field Tech	Retest Of
1	10/25/2024	Bottom Lift, Drive Lane: STA 1001 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.3	93	92 / 96	SP	BW	
2	10/25/2024	Bottom Lift, Drive Lane: STA 1006 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	142.1	93	92 / 96	SP	BW	
3	10/25/2024	Bottom Lift, Drive Lane: STA 1011 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.6	93	92 / 96	SP	BW	
4	10/25/2024	Bottom Lift, Drive Lane: STA 1017 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	143.5	94	92 / 96	SP	BW	
5	10/25/2024	Bottom Lift, Drive Lane: STA 1022 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.1	92	92 / 96	SP	BW	
6	10/25/2024	Bottom Lift, Drive Lane: STA 1027 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.4	92	92 / 96	SP	BW	
7	10/25/2024	Bottom Lift, Drive Lane: STA 1032 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.8	93	92 / 96	SP	BW	
8	10/25/2024	Bottom Lift, Drive Lane: STA 1036 + 50 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	142.8	94	92 / 96	SP	BW	
9	10/25/2024	Bottom Lift, Drive Lane: STA 1042 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	139.9	92	92 / 96	SP	BW	
10	10/25/2024	Bottom Lift, Drive Lane: STA 1046 + 50 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.8	92	92 / 96	SP	BW	
11	10/25/2024	Bottom Lift, Drive Lane: STA 1051 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	143.7	94	92 / 96	SP	BW	
12	10/25/2024	Bottom Lift, Drive Lane: STA 1056 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.8	92	92 / 96	SP	BW	



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Test #	Test Date	Test Location	Lift Thickness (inches)	Mix Design	Max Density (pcf)	In Place Density (pcf)	Percent Comp.	Min/Max Comp. (%)	Rem. Code	Field Tech	Retest Of
13	10/25/2024	Bottom Lift, Drive Lane: STA 1064 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.4	93	92 / 96	SP	BW	
14	10/25/2024	Bottom Lift, Drive Lane: STA 1067 + 50 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.2	92	92 / 96	SP	BW	
15	10/28/2024	Bottom Lift, Drive Lane: STA 2028 + 00 on Twinkling Star Ln, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	139.8	92	92 / 96	SP	GM	
16	10/28/2024	Bottom Lift, Drive Lane: STA 2026 + 00 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	142.0	93	92 / 96	SP	GM	
17	10/28/2024	Bottom Lift, Drive Lane: STA 2024 + 00 on Twinkling Star Ln., southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.3	93	92 / 96	SP	GM	
18	10/28/2024	Bottom Lift, Drive Lane: STA 2020 + 00 on Twinkling Star Ln., southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	139.8	92	92 / 96	SP	GM	
19	10/28/2024	Top Lift, Drive Lane: STA 2028 + 00 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.7	93	92 / 96	SP	GM	
20	10/28/2024	Top Lift, Drive Lane: STA 2026 + 00 on Twinkling Star Ln., southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.0	92	92 / 96	SP	GM	
21	10/28/2024	Top Lift, Drive Lane: STA 2024 + 00 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.7	92	92 / 96	SP	GM	
22	10/28/2024	Top Lift, Drive Lane: STA 2022 + 00 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.1	92	92 / 96	SP	GM	
23	10/29/2024	Bottom Lift, Drive Lane: STA 2018 + 00 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.1	92	92 / 96	SP	GM	
24	10/29/2024	Bottom Lift, Drive Lane: STA 2016 + 00 on Twinkling Star Ln., southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	139.9	92	92 / 96	SP	GM	
25	10/29/2024	Bottom Lift, Drive Lane: STA 2014 + 00 on Twinkling Star Ln., southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.6	92	92 / 96	SP	GM	



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26	10/29/2024	Bottom Lift, Drive Lane: STA 2012 + 00 on Twinkling Star Ln., southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.4	93	92 / 96	SP	GM	
27	10/29/2024	Bottom Lift, Drive Lane: STA 2010 + 00 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.5	93	92 / 96	SP	GM	
28	10/29/2024	Top Lift, Drive Lane: STA 2020 + 00 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	139.9	92	92 / 96	SP	GM	
29	10/29/2024	Top Lift, Drive Lane: STA 2018 + 00 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.5	92	92 / 96	SP	GM	
30	10/26/2024	Bottom Lift, Drive Lane: STA 1004 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.0	92	92 / 96	SP	BW	
31	10/26/2024	Bottom Lift, Drive Lane: STA 1009 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.3	92	92 / 96	SP	BW	
32	10/26/2024	Bottom Lift, Drive Lane: STA 1013 + 50 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.5	93	92 / 96	SP	BW	
33	10/26/2024	Bottom Lift, Drive Lane: STA 1020 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	142.4	93	92 / 96	SP	BW	
34	10/26/2024	Bottom Lift, Drive Lane: STA 1024 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.4	93	92 / 96	SP	BW	
35	10/26/2024	Bottom Lift, Drive Lane: STA 1029 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.4	93	92 / 96	SP	BW	
36	10/26/2024	Bottom Lift, Joint: STA 1019 + 00 on Alamar Way.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	138.8	91	92 / 96	SP	BW	
37	10/26/2024	Bottom Lift, Joint: STA 1031 + 50 on Alamar Way.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	138.6	91	92 / 96	SP	BW	
38	10/26/2024	Bottom Lift, Drive Lane: STA 1034 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.1	92	92 / 96	SP	BW	



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39	10/26/2024	Bottom Lift, Drive Lane: STA 1040 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.8	92	92 / 96	SP	BW	
40	10/26/2024	Bottom Lift, Drive Lane: STA 1044 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.6	92	92 / 96	SP	BW	
41	10/26/2024	Bottom Lift, Drive Lane: STA 1049 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.9	92	92 / 96	SP	BW	
42	10/26/2024	Bottom Lift, Drive Lane: STA 1054 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.2	92	92 / 96	SP	BW	
43	10/26/2024	Bottom Lift, Drive Lane: STA 1059 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.8	92	92 / 96	SP	BW	
44	10/26/2024	Bottom Lift, Drive Lane: STA 1064 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.2	92	92 / 96	SP	BW	
45	10/26/2024	Bottom Lift, Drive Lane: STA 1068 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.9	93	92 / 96	SP	BW	
46	10/26/2024	Bottom Lift, Drive Lane: STA 1068 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	139.4	91	92 / 96	SP	BW	
47	10/26/2024	Bottom Lift, Joint: STA 1070 + 75 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.2	92	92 / 96	SP	BW	
48	10/28/2024	Top Lift, Drive Lane: STA 1009 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	143.4	94	92 / 96	SP	BW	
49	10/28/2024	Top Lift, Drive Lane: STA 1014 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.3	93	92 / 96	SP	BW	
50	10/28/2024	Top Lift, Drive Lane: STA 1019 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.9	93	92 / 96	SP	BW	
51	10/28/2024	Top Lift, Drive Lane: STA 1024 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	143.4	94	92 / 96	SP	BW	



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52	10/28/2024	Top Lift, Drive Lane: STA 1029 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	143.2	94	92 / 96	SP	BW	
53	10/28/2024	Top Lift, Drive Lane: STA 1034 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	144.1	94	92 / 96	SP	BW	
54	10/28/2024	Top Lift, Drive Lane: STA 1039 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	144.7	95	92 / 96	SP	BW	
55	10/28/2024	Top Lift, Drive Lane: STA 1045 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	142.6	93	92 / 96	SP	BW	
56	10/28/2024	Top Lift, Drive Lane: STA 1049 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.5	93	92 / 96	SP	BW	
57	10/28/2024	Top Lift, Drive Lane: STA 1050 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.0	92	92 / 96	SP	BW	
58	10/28/2024	Top Lift, Drive Lane: STA 1059 + 50 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	142.5	93	92 / 96	SP	BW	
59	10/28/2024	Top Lift, Drive Lane: STA 1064 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.5	92	92 / 96	SP	BW	
60	10/28/2024	Top Lift, Drive Lane: STA 1069 + 50 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	143.2	94	92 / 96	SP	BW	
61	10/28/2024	Bottom Lift, Drive Lane: STA 2018 + 00 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.7	92	92 / 96	SP	BW	
62	10/28/2024	Bottom Lift, Drive Lane: STA 2013 + 50 on Twinkling Star Ln., southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.5	93	92 / 96	SP	BW	
63	10/28/2024	Bottom Lift, Joint: STA 2014 + 00 on Twinkling Star Ln.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	138.8	91	92 / 96	SP	BW	
64	10/28/2024	Top Lift, Drive Lane: STA 1004 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	144.7	95	92 / 96	SP	BW	



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65	10/29/2024	Top Lift, Drive Lane: STA 1001 + 50 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.3	92	92 / 96	SP	BW	
66	10/29/2024	Top Lift, Drive Lane: STA 1006 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	142.4	93	92 / 96	SP	BW	
67	10/29/2024	Top Lift, Drive Lane: STA 1010 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	142.3	93	92 / 96	SP	BW	
68	10/29/2024	Top Lift, Drive Lane: STA 1015 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.4	93	92 / 96	SP	BW	
69	10/29/2024	Top Lift, Joint: STA 1016 + 00 on Alamar Way.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.3	92	92 / 96	SP	BW	
70	10/29/2024	Top Lift, Drive Lane: STA 1019 + 50 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	143.3	94	92 / 96	SP	BW	
71	10/29/2024	Top Lift, Drive Lane: STA 1023 + 50 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	143.9	94	92 / 96	SP	BW	
72	10/29/2024	Top Lift, Drive Lane: STA 1030 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	143.5	94	92 / 96	SP	BW	
73	10/29/2024	Top Lift, Drive Lane: STA 1035 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.7	93	92 / 96	SP	BW	
74	10/29/2024	Top Lift, Drive Lane: STA 1040 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.6	93	92 / 96	SP	BW	
75	10/29/2024	Top Lift, Drive Lane: STA 1044 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.8	93	92 / 96	SP	BW	
76	10/29/2024	Top Lift, Drive Lane: STA 1050 + 00 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	143.9	94	92 / 96	SP	BW	
77	10/29/2024	Top Lift, Drive Lane: STA 1053 + 50 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	143.7	94	92 / 96	SP	BW	



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78	10/29/2024	Top Lift, Drive Lane: Mailbox Pullout, STA 1058 + 00 on Alamar Way.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	144.3	94	92 / 96	SP	BW	
79	10/29/2024	Top Lift, Drive Lane: STA 1058 + 50 on Alamar Way, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.8	93	92 / 96	SP	BW	
80	10/29/2024	Top Lift, Drive Lane: STA 1063 + 50 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.9	93	92 / 96	SP	BW	
81	10/29/2024	Top Lift, Drive Lane: STA 1069 + 00 on Alamar Way, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	142.8	94	92 / 96	SP	BW	
82	11/01/2024	Bottom Lift, Drive Lane: STA 2005 + 00 on Twinkling Star Ln., southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	142.4	93	92 / 96	SP	BW	
83	11/01/2024	Bottom Lift, Drive Lane: STA 2008 + 00 on Twinkling Star Ln., southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.9	92	92 / 96	SP	BW	
84	11/01/2024	Bottom Lift, Drive Lane: STA 2005 + 00 on Twinkling Star Ln., southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.9	93	92 / 96	SP	BW	
85	11/01/2024	Bottom Lift, Drive Lane: STA 2007 + 50 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.0	92	92 / 96	SP	BW	
86	11/01/2024	Bottom Lift, Drive Lane: STA 2004 + 00 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.2	92	92 / 96	SP	BW	
87	11/01/2024	Top Lift, Drive Lane: STA 2020 + 50 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.8	92	92 / 96	SP	BW	
88	11/01/2024	Top Lift, Drive Lane: STA 2018 + 00 on Twinkling Star Ln., southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	143.7	94	92 / 96	SP	BW	
89	11/01/2024	Top Lift, Drive Lane: STA 2014 + 00 on Twinkling Star Ln., southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	144.2	94	92 / 96	SP	BW	
90	11/01/2024	Top Lift, Drive Lane: STA 2009 + 50 on Twinkling Star Ln, southbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	144.8	95	92 / 96	SP	BW	



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92	11/01/2024	Top Lift, Drive Lane: STA 2016 + 00 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.5	92	92 / 96	SP	BW	
93	11/01/2024	Top Lift, Drive Lane: STA 2011 + 50 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	144.6	95	92 / 96	SP	BW	
94	11/01/2024	Top Lift, Joint: STA 2009 + 25 on Twinkling Star Ln.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	141.3	93	92 / 96	SP	BW	
95	11/01/2024	Top Lift, Drive Lane: STA 2008 + 75 on Twinkling Star Ln, northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	140.8	92	92 / 96	SP	BW	
96	11/01/2024	Top Lift, Drive Lane: STA 2004 + 00 on Twinkling Star Ln., northbound lane.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	142.4	93	92 / 96	SP	BW	
97	11/01/2024	Top Lift, Joint: STA 2019 + 00 on Twinkling Star Ln.	2.0	(1/2") SP75 PG 58-28 20% RAP	152.7	138.2	91	92 / 96	SP	BW	

Remarks

SP : Supplied Density Pass

Comments

Tests are determined using backscatter method.



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Phone: 719-531-5599

Density of Asphalt

Client:

ProTerra Properties, LLC
1864 Woodmoor Drive Ste 100
Monument, CO 80132

Project:

240824
Winsome F3
Winsome F3
Colorado Springs, CO

A handwritten signature in blue ink, appearing to read "Joey Goode".

11/20/2024

Reviewed by: Joey Goode, PE



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Phone: 719-531-5599

Soil Density Report

Client:

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Project:

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Winsome F3
Winsome F3
Colorado Springs, CO

Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
1 / 1	Roadway Subgrade: 200' west of the northwest corner of the intersection at Winsome Way & Alamar Way.	9	Below Grade	05/22/2024	P2	9.8	116.9	95	95	-2 / 2	DPMP		AO
2 / 2	Roadway Subgrade: 75' west & 50' north of the southwest corner of the intersection at Winsome Way & Alamar Way.	5	Below Grade	05/23/2024	P1	7.3	125.6	96	95	-2 / 2	DPMP		AO
3 / 3	Roadway Subgrade: 150' west & 50' north of the southwest corner of the intersection at Winsome Way & Alamar Way.	4.5	Below Grade	05/23/2024	P1	7.4	124.9	96	95	-2 / 2	DPMP		AO
4 / 4	Roadway Subgrade: 80' northwest from the southwest corner of the intersection at Winsome Way & Alamar Way.	4	Below Grade	05/24/2024	P2	12.0	117.9	96	95	-2 / 2	DPMP		LM
5 / 5	Roadway Subgrade: 110' northwest from the southwest corner of the intersection at Winsome Way & Alamar Way.	4	Below Grade	05/24/2024	P2	8.4	117.0	95	95	-2 / 2	DPMP		LM
6 / 6	Roadway Subgrade: 80' northwest from the southwest corner of the intersection at Winsome Way & Alamar Way.	-	At Grade	05/24/2024	P2	8.9	119.4	97	95	-2 / 2	DPMP		LM
7 / 7	Roadway Subgrade: 110' northwest from the southwest corner of the intersection at Winsome Way & Alamar Way.	-	At Grade	05/24/2024	P2	8.1	118.3	96	95	-2 / 2	DPMP		LM

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P2	ASTM D698 - A	SC	10.1	123.1
P1	ASTM D1557 - A	SM	7.3	130.7



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Project:

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Colorado Springs, CO

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06/04/2024

Reviewed by: Joey Goode, PE



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Project:

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Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
104 /269	Roadway Subgrade: RCB, STA 2006 + 00 on Twinkling Star Ln, westbound lane.	-	At Grade	10/29/2024	P5	10.6	116.4	101	95	-2 / 2	DPMP		BW
105 /270	Roadway Subgrade: Native subgrade repair, Twinkling Star STA 2006+50.	-	At Grade	10/26/2024	P2	9.9	120.4	98	95	-2 / 2	DPMP		BW

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P5	ASTM D1557 - B	Cls 6 R.C.	12.6	115.1
P2	ASTM D698 - A	SC	10.1	123.1

11/07/2024

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Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
8 / 8	Roadway Subgrade: 500' west of the southwest corner of the intersection at Alamar Way & Winsome Way.	1	Below Grade	05/28/2024	P1	7.2	124.2	95	95	-2 / 2	DPMP		LM
9 / 9	Roadway Subgrade: 455' west of the southwest corner of the intersection at Alamar Way & Winsome Way.	-	At Grade	05/28/2024	P2	8.8	123.7	101	95	-2 / 2	DPMP		LM
1 / 10	Overlot: Maintenance road, east drainage easement near Lot 22.	-	At Grade	05/29/2024	P2	11.9	119.9	97	95	-2 / 2	DPMP		BW

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P1	ASTM D1557 - A	SM	7.3	130.7
P2	ASTM D698 - A	SC	10.1	123.1

06/10/2024

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Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
1 / 11	Storm Water: STA 1070 + 75 on Alamar Way.	-	At Grade	06/18/2024	P3	12.4	102.6	101	95	-1 / 3	DPMP		BW
2 / 12	Storm Water: Crossing at Twinkling Star Lane. GPS: 39.0841225 N, -104.6118381 W.	6	Below Grade	06/25/2024	P3	12.4	102.6	101	95	-1 / 3	DPMP		BW
3 / 13	Storm Water: Crossing at STA 2011 + 25 on Alamar Way.	4	Below Grade	06/26/2024	P2	9.8	117.7	96	95	-2 / 2	DPMP		BW
4 / 14	Storm Water: Crossing at STA 2011 + 25 on Alamar Way.	2	Below Grade	06/26/2024	P3	13.1	102.1	100	95	-1 / 3	DPMP		BW
5 / 15	Storm Water: Crossing at STA 2011 + 25 on Alamar Way.	-	At Grade	06/27/2024	P4	13.4	110.4	101	95	-1 / 3	DPMP		BW
6 / 17	Storm Water: Maintenance road crossing, northeast of Pond 1.	2	Below Grade	06/28/2024	P2	8.8	117.2	95	95	-2 / 2	DPMP		BW
7 / 18	Storm Water: Maintenance road crossing, northeast of Pond 1.	-	At Grade	06/28/2024	P2	10.9	120.4	98	95	-2 / 2	DPMP		BW

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P3	ASTM D698 - A	CL	13.4	101.9
P2	ASTM D698 - A	SC	10.1	123.1
P4	ASTM D698 - A	CL	14.4	109.1

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Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
2 / 16	Overlot: Permanent Sediment Basin H5B. GPS: Lat: 39.0802268, Long: -104.6182721	-	At Grade	05/29/2024	P2	12.1	118.0	96	95	-2 / 2	DPMP		BW
8 / 19	Storm Water: Main, STA 1008 + 50 on Alamar Way.	-	At Grade	07/02/2024	P4	14.8	111.6	102	95	-1 / 3	DPMP		BW
3 / 20	Overlot: Permanent Sediment Basin H5B. GPS: Lat: 39.0803690, Long: -104.6183189.	-	At Grade	05/29/2024	P2	11.1	117.1	95	95	-2 / 2	DPMP		BW
9 / 21	Storm Water: Twinkling Star Ln, Culvert at STA 2012+00.	1	Below Grade	06/04/2024	P2	10.5	118.7	96	95	-2 / 2	DPMP		BW
11 / 22	Roadway Subgrade: Maintenance road north of Water Quality Pond A. GPS: Lat: 39.0784875, Long: -104.6199881.	-	At Grade	05/30/2024	P2	11.8	117.0	95	95	-2 / 2	DPMP		BW
12 / 23	Roadway Subgrade: Maintenance road, south of outlet at Pond 1. GPS: Lat: 39.07884762, Long: -104.6197121	-	At Grade	05/30/2024	P2	9.5	120.6	98	95	-2 / 2	DPMP		BW
13 / 24	Roadway Subgrade: Maintenance road, south of outlet at Water Quality Pond A. GPS: Lat: 39.0781472, Long: -104.6201361.	-	At Grade	05/30/2024	P2	12.0	121.1	98	95	-2 / 2	DPMP		BW
1 / 25	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, west side of the north abutment.	10	Below Grade	05/30/2024	P2	13.4	118.6	96	95	-2 / 2	DPMP		BW
2 / 26	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, east side of the north abutment.	9	Below Grade	05/30/2024	P4	13.4	107.8	99	95	-1 / 3	DPMP		BW
3 / 27	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, east side of the north abutment.	8	Below Grade	05/30/2024	P4	13.4	109.4	100	95	-1 / 3	DPMP		BW
4 / 28	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, east side of the north abutment.	7	Below Grade	05/31/2024	P2	9.7	117.5	96	95	-2 / 2	DPMP		BW



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Soil Density Report

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Project:

240824
Winsome F3
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Colorado Springs, CO

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
5 / 29	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, west side of the north abutment.	7	Below Grade	05/31/2024	P2	9.3	118.6	96	95	-2 / 2	DPMP		BW
6 / 30	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, west side of the north abutment.	6	Below Grade	05/31/2024	P2	12.1	117.4	95	95	-2 / 2	DPMP		BW
7 / 31	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, east side of the north abutment.	6	Below Grade	05/31/2024	P2	12.1	119.5	97	95	-2 / 2	DPMP		BW
8 / 32	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, west side of the north abutment.	4	Below Grade	06/03/2024	P4	15.0	107.2	98	95	-1 / 3	DPMP		BW
9 / 33	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, east side of the north abutment.	4	Below Grade	06/03/2024	P4	13.4	112.4	103	95	-1 / 3	DPMP		BW
10 / 34	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, east side of the north abutment.	2	Below Grade	06/03/2024	P4	14.0	105.9	97	95	-1 / 3	DPMP		BW
11 / 35	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, west side of the north abutment.	2	Below Grade	06/03/2024	P4	13.4	111.0	102	95	-1 / 3	DPMP		BW
12 / 36	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, center of the road at the north abutment.	-	At Grade	06/03/2024	P4	14.0	110.0	101	95	-1 / 3	DPMP		BW
13 / 37	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, west side of the north abutment.	1	Below Grade	06/04/2024	P3	16.1	100.7	99	95	-1 / 3	DPMP		BW
14 / 38	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, east side of the north abutment.	1	Below Grade	06/04/2024	P3	16.1	102.7	101	95	-1 / 3	DPMP		BW
15 / 39	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, east side of the north abutment.	-	At Grade	06/04/2024	P4	13.4	110.5	101	95	-1 / 3	DPMP		BW



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Soil Density Report

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Project:

240824
Winsome F3
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Colorado Springs, CO

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
16 / 40	Footing/Foundation Subgrade: Culvert Crossing #2, Twinkling Star Ln, west side of the north abutment.	-	At Grade	06/04/2024	P3	13.8	103.1	101	95	-1 / 3	DPMP		BW
10 / 41	Storm Water: Culvert H3, Alamar Wy, STA 1055+00.	4	Below Grade	06/04/2024	P4	13.4	107.5	99	95	-1 / 3	DPMP		BW
11 / 42	Storm Water: Culvert H2, Alamar Wy, STA 1046+50.	10	Below Grade	06/04/2024	P4	14.0	110.8	102	95	-1 / 3	DPMP		BW
12 / 43	Storm Water: Culvert H2, Alamar Wy, STA 1046+50.	10	Below Grade	06/04/2024	P4	14.1	111.2	102	95	-1 / 3	DPMP		BW
13 / 44	Storm Water: Culvert H2, Alamar Wy, STA 1046+50.	10	Below Grade	06/04/2024	P4	14.5	110.3	101	95	-1 / 3	DPMP		BW
14 / 45	Storm Water: Culvert H3, Alamar Wy, STA 1055+00.	2	Below Grade	06/04/2024	P4	14.0	108.4	99	95	-1 / 3	DPMP		BW
15 / 46	Storm Water: Culvert H2, Alamar Wy, STA 1046+50.	8	Below Grade	06/04/2024	P2	8.2	117.7	96	95	-2 / 2	DPMP		BW
16 / 47	Storm Water: Culvert H2, Alamar Wy, STA 1046+50.	8	Below Grade	06/04/2024	P2	12.1	117.6	96	95	-2 / 2	DPMP		BW
17 / 48	Storm Water: Culvert H2, Alamar Wy, STA 1046+50.	7	Below Grade	06/04/2024	P4	14.3	106.2	97	95	-1 / 3	DPMP		BW
18 / 49	Storm Water: Culvert H2, Alamar Wy, STA 1046+50.	7	Below Grade	06/04/2024	P4	14.4	109.6	101	95	-1 / 3	DPMP		BW
19 / 50	Storm Water: Culvert H2, Alamar Wy, STA 1046+50.	6	Below Grade	06/05/2024	P4	13.4	109.2	100	95	-1 / 3	DPMP		BW
20 / 51	Storm Water: Culvert H3, Alamar Wy, STA 1054+70.	-	At Grade	06/05/2024	P2	9.7	117.4	95	95	-2 / 2	DPMP		BW
14 / 52	Roadway Subgrade: Maintenance road, 30' west of STA 2011+00 on Twinkling Star Ln.	4	Below Grade	06/05/2024	P3	14.3	101.4	100	95	-1 / 3	DPMP		BW
15 / 53	Roadway Subgrade: Maintenance road, 30' west of STA 2011+00 on Twinkling Star Ln.	4	Below Grade	06/05/2024	P4	14.7	111.6	102	95	-1 / 3	DPMP		BW
17 / 54	Footing/Foundation Subgrade: Fire Cistern, Alamar Wy, STA 1059+00.	-	At Grade	06/05/2024	P2	9.1	117.4	95	95	-2 / 2	DPMP		BW



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10 / 55	Roadway Subgrade: Maintenance road north of Pond 1. GPS: Lat: 39.07953151, Long: -104.6191331.	-	At Grade	05/29/2024	P2	9.8	119.4	97	95	-2 / 2	DPMP		BW
21 / 56	Storm Water: Culvert H3, Alamar Wy, STA 1055+00.	2	Below Grade	06/12/2024	P2	9.2	120.2	98	95	-2 / 2	DPMP		BW

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P2	ASTM D698 - A	SC	10.1	123.1
P4	ASTM D698 - A	CL	14.4	109.1
P3	ASTM D698 - A	CL	13.4	101.9

07/16/2024

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40 / 57	Overlot: Maintenance Road, 50' west of Twinkling Star Ln.	6	Below Grade	06/05/2024	P4	14.3	104.4	96	95	-1 / 3	DPMP		BW
41 / 58	Overlot: Alamar Way, culvert, east side of the north abutment.	4	Below Grade	06/05/2024	P4	14.7	111.6	102	95	-1 / 3	DPMP		BW
42 / 59	Overlot: Fire cistern, STA 1059 + 00 on Alamar Way.	-	At Grade	06/05/2024	P2	9.1	117.4	95	95	-2 / 2	DPMP		BW
43 / 60	Overlot: STA 1046 + 50 on Alamar Way.	8	Below Grade	06/05/2024	P2	12.1	119.0	97	95	-2 / 2	DPMP		BW
44 / 61	Overlot: Maintenance Road, 1000' west southwest of Twinkling Star Ln.	-	At Grade	06/05/2024	P2	9.0	122.6	100	95	-2 / 2	DPMP		BW
45 / 62	Overlot: STA 1046 + 50 on Alamar Way.	6	Below Grade	06/05/2024	P4	13.4	109.2	100	95	-1 / 3	DPMP		BW
46 / 63	Overlot: STA 1054 + 75 on Alamar Way.	-	At Grade	06/05/2024	P2	9.7	116.5	95	95	-2 / 2	DPMP		BW
47 / 64	Overlot: Maintenance Road, 50' west of Twinkling Star Ln.	4	Below Grade	06/05/2024	P4	13.4	108.3	99	95	-1 / 3	DPMP		BW
48 / 65	Overlot: Maintenance Road, 50' west of Twinkling Star Ln.	2	Below Grade	06/05/2024	P4	14.1	103.8	95	95	-1 / 3	DPMP		BW
49 / 66	Overlot: Maintenance Road, 50' west of Twinkling Star Ln.	-	At Grade	06/05/2024	P4	14.4	104.0	95	95	-1 / 3	DPMP		BW
50 / 67	Overlot: STA 2009 + 50 on Twinkling Star Ln., north abutment.	10	Below Grade	06/06/2024	P4	15.3	107.3	98	95	-1 / 3	DPMP		BW
51 / 68	Overlot: STA 2011 + 25 on Twinkling Star Ln.	7	Below Grade	06/06/2024	P4	13.4	107.5	99	95	-1 / 3	DPMP		BW
52 / 69	Overlot: STA 1045 + 00 on Alamar Way.	8	Below Grade	06/06/2024	P4	13.4	107.7	99	95	-1 / 3	DPMP		BW
53 / 70	Overlot: STA 1045 + 75 on Alamar Way.	7	Below Grade	06/06/2024	P4	13.4	107.7	99	95	-1 / 3	DPMP		BW
54 / 71	Overlot: STA 2011 + 25 on Twinkling Star Ln.	6	Below Grade	06/06/2024	P2	9.9	117.6	96	95	-2 / 2	DPMP		BW



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55 / 72	Overlot: STA 1022 + 50 on Alamar Way.	1	Below Grade	06/06/2024	P2	8.7	118.2	96	95	-2 / 2	DPMP		BW
56 / 73	Overlot: STA 2011 + 25 on Twinkling Star Ln.	5	Below Grade	06/06/2024	P3	12.4	99.3	97	95	-1 / 3	DPMP		BW
57 / 74	Overlot: STA 2009 + 50 on Twinkling Star Ln.	9	Below Grade	06/07/2024	P4	15.5	107.4	98	95	-1 / 3	DPMP		BW
58 / 75	Overlot: STA 2009 + 50 on Twinkling Star Ln.	8	Below Grade	06/07/2024	P4	13.5	103.9	95	95	-1 / 3	DPMP		BW
59 / 76	Overlot: STA 2011 + 25 on Twinkling Star Ln.	4	Below Grade	06/07/2024	P4	13.6	106.7	98	95	-1 / 3	DPMP		BW
60 / 77	Overlot: STA 2011 + 25 on Twinkling Star Ln.	3	Below Grade	06/07/2024	P4	13.5	105.8	97	95	-1 / 3	DPMP		BW
61 / 78	Overlot: STA 2011 + 25 on Twinkling Star Ln.	2	Below Grade	06/07/2024	P4	15.0	109.1	100	95	-1 / 3	DPMP		BW
62 / 79	Overlot: STA 1054 + 75 on Alamar Way.	5	Below Grade	06/10/2024	P2	8.4	120.3	98	95	-2 / 2	DPMP		BW
63 / 80	Overlot: STA 1054 + 75 on Alamar Way.	4	Below Grade	06/10/2024	P2	8.7	120.7	98	95	-2 / 2	DPMP		BW
64 / 81	Overlot: STA 2011 + 25 on Alamar Way.	-	At Grade	06/10/2024	P2	9.1	117.6	96	95	-2 / 2	DPMP		BW
65 / 82	Overlot: STA 2009 + 50 on Alamar Way.	6	At Grade	06/10/2024	P4	13.4	108.4	99	95	-1 / 3	DPMP		BW
66 / 83	Overlot: STA 2008 + 25 on Alamar Way.	4	Below Grade	06/10/2024	P4	13.7	107.7	99	95	-1 / 3	DPMP		BW
67 / 84	Overlot: STA 2008 + 00 on Alamar Way.	2	Below Grade	06/11/2024	P4	14.7	105.3	97	95	-1 / 3	DPMP		BW
68 / 85	Overlot: STA 1054 + 75 on Alamar Way.	2	Below Grade	06/11/2024	P3	14.8	97.5	96	95	-1 / 3	DPMP		BW
69 / 86	Overlot: STA 1054 + 75 on Alamar Way.	-	At Grade	06/11/2024	P4	16.7	110.3	101	95	-1 / 3	DPMP		BW
70 / 87	Overlot: STA 1046 + 50 on Alamar Way.	8	Below Grade	06/11/2024	P4	13.6	110.9	102	95	-1 / 3	DPMP		BW



Entech Engineering
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Soil Density Report

Client:

ProTerra Properties, LLC
1864 Woodmoor Drive Ste 100
Monument, CO 80132

Project:

240824
Winsome F3
Winsome F3
Colorado Springs, CO

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
71 / 88	Overlot: STA 1046 + 50 on Alamar Way.	7	Below Grade	06/11/2024	P4	13.6	103.6	95	95	-1 / 3	DPMP		BW
72 / 89	Overlot: STA 1046 + 50 on Alamar Way.	6	Below Grade	06/11/2024	P4	14.3	107.4	98	95	-1 / 3	DPMP		BW
73 / 90	Overlot: STA 1046 + 50 on Alamar Way.	5	Below Grade	06/11/2024	P2	8.7	117.9	96	95	-2 / 2	DPMP		BW
74 / 91	Overlot: STA 1027 + 50 on Alamar Way.	2	Below Grade	06/12/2024	P2	9.3	117.7	96	95	-2 / 2	DPMP		BW
75 / 92	Overlot: STA 1027 + 50 on Alamar Way.	-	At Grade	06/12/2024	P2	10.1	119.1	97	95	-2 / 2	DPMP		BW
76 / 93	Overlot: STA 1046 + 50 on Alamar Way.	4	Below Grade	06/12/2024	P2	10.0	118.5	96	95	-2 / 2	DPMP		BW
77 / 94	Overlot: STA 1046 + 50 on Alamar Way.	2	Below Grade	06/12/2024	P2	9.9	118.1	96	95	-2 / 2	DPMP		BW
78 / 95	Overlot: STA 1046 + 50 on Alamar Way.	-	At Grade	06/12/2024	P2	8.8	121.2	99	95	-2 / 2	DPMP		BW
79 / 96	Overlot: STA 1050 + 00 on Alamar Way.	2	Below Grade	06/12/2024	P2	8.1	120.0	98	95	-2 / 2	DPMP		BW
80 / 97	Overlot: STA 1050 + 00 on Alamar Way.	-	At Grade	06/12/2024	P2	8.6	117.7	96	95	-2 / 2	DPMP		BW
81 / 98	Overlot: STA 1022 + 50 on Alamar Way.	-	At Grade	06/13/2024	P2	8.4	120.0	98	95	-2 / 2	DPMP		BW
82 / 99	Overlot: STA 1013 + 50 on Alamar Way.	-	At Grade	06/14/2024	P2	9.7	118.9	97	95	-2 / 2	DPMP		BW
83 / 100	Overlot: STA 1008 + 50 on Alamar Way.	-	At Grade	06/17/2024	P2	9.3	119.9	97	95	-2 / 2	DPMP		BW
84 / 101	Overlot: STA 1070 + 75 on Alamar Way.	-	At Grade	06/18/2024	P4	13.7	107.9	99	95	-1 / 3	DPMP		BW

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.



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Soil Density Report

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Project:

240824
Winsome F3
Winsome F3
Colorado Springs, CO

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P4	ASTM D698 - A	CL	14.4	109.1
P2	ASTM D698 - A	SC	10.1	123.1
P3	ASTM D698 - A	CL	13.4	101.9

08/09/2024

Reviewed by: Joey Goode, PE



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Colorado Springs, CO

Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
1 /102	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, east end in the southbound lane.	6	Below Grade	08/26/2024	P2	11.6	119.5	97	95	-2 / 2	DPMP		BW
2 /103	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, east end in the northbound lane.	6	Below Grade	08/26/2024	P2	11.2	123.3	100	95	-2 / 2	DPMP		BW
3 /104	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, east end in the northbound lane.	4	Below Grade	08/27/2024	P2	8.6	116.8	95	95	-2 / 2	DPMP		BW
4 /105	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, east side of the southeast wing wall.	6	Below Grade	08/27/2024	P2	9.8	119.1	97	95	-2 / 2	DPMP		BW
5 /106	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, 10' north of the deck at the northeast wing wall.	3	Below Grade	08/27/2024	P2	10.7	120.9	98	95	-2 / 2	DPMP		BW
6 /107	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, east side in the middle of the road.	-	At Grade	08/27/2024	P2	12.1	117.8	96	95	-2 / 2	DPMP		BW
7 /108	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, west side, southwest wing wall.	4	Below Grade	08/28/2024	P4	14.0	103.9	95	95	-1 / 3	DPMP		BW
8 /109	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, west side, corner of the southwest wing wall and deck.	4	Below Grade	08/28/2024	P4	13.4	103.6	95	95	-1 / 3	DPMP		BW
9 /110	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, 5' west of the culvert, middle of the road.	2	Below Grade	08/28/2024	P4	15.6	103.3	95	95	-1 / 3	DPMP		BW
10 /111	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, middle of the north wing wall.	4	Below Grade	08/28/2024	P4	13.4	111.5	102	95	-1 / 3	DPMP		BW
11 /112	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, 5' west of the middle of the deck.	-	At Grade	08/28/2024	P4	15.1	108.2	99	95	-1 / 3	DPMP		BW
12 /113	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, west side, middle of the southwest wingwall.	-	At Grade	08/28/2024	P4	13.4	104.2	96	95	-1 / 3	DPMP		BW



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Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
13 /114	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, west side, southwest wing wall.	-	At Grade	08/29/2024	P4	13.4	105.9	97	95	-1 / 3	DPMP		BW
14 /115	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, west side, northwest wing wall.	-	At Grade	08/29/2024	P4	13.7	103.4	95	95	-1 / 3	DPMP		BW
15 /116	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, 5' west of the culvert in middle of the road.	-	At Grade	08/29/2024	P4	13.4	111.4	102	95	-1 / 3	DPMP		BW
16 /117	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, east end in the southbound lane.	9	Below Grade	08/26/2024	P2	11.6	119.5	97	95	-2 / 2	DPMP		BW
17 /118	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, east end in the northbound lane.	9	Below Grade	08/26/2024	P2	11.2	123.3	100	95	-2 / 2	DPMP		BW
18 /119	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, east end in the northbound lane.	7	Below Grade	08/26/2024	P2	10.9	116.7	95	95	-2 / 2	DPMP		BW
19 /120	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, east end in the southbound lane.	7	Below Grade	08/26/2024	P2	11.4	117.9	96	95	-2 / 2	DPMP		BW
20 /121	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, northwest wing wall, 4' north of culvert top slab.	-	At Grade	09/11/2024	P4	13.5	106.8	98	95	-1 / 3	DPMP		BW
22 /123	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, southwest wing wall, 7' south of culvert top slab.	-	At Grade	09/11/2024	P4	13.4	107.7	99	95	-1 / 3	DPMP		BW
23 /124	Foundation Backfill: Culvert Crossing No. 1 on Alamar Way, 5' west of the culvert top slab in the middle of the road.	-	At Grade	09/11/2024	P4	13.7	105.5	97	95	-1 / 3	DPMP		BW

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.



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Soil Density Report

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Project:

240824
Winsome F3
Winsome F3
Colorado Springs, CO

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P2	ASTM D698 - A	SC	10.1	123.1
P4	ASTM D698 - A	CL	14.4	109.1

09/12/2024

Reviewed by: Joey Goode, PE



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Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
24 /125	Foundation Backfill: Culvert Crossing No. 1 on Alamar Wy, southeast wing wall.	2	Below Grade	09/13/2024	P4	13.7	110.8	102	95	-1 / 3	DPMP		BW
25 /126	Foundation Backfill: Culvert Crossing No. 1 on Alamar Wy, northeast wing wall.	-	At Grade	09/13/2024	P2	12.1	117.8	96	95	-2 / 2	DPMP		BW
26 /127	Foundation Backfill: Culvert Crossing No. 1 on Alamar Wy, west approach in the center of the road.	-	At Grade	09/17/2024	P2	8.3	118.9	97	95	-2 / 2	DPMP		AF
22 /128	Storm Water: Culvert Crossing No. 1, 15' east & 20' south of the northwest corner of the northwest wing wall.	-	At Grade	09/17/2024	P3	12.5	98.4	97	95	-1 / 3	DPMP		AF
23 /129	Storm Water: Culvert Crossing No. 1, 20' north of the northwest corner of the southwest wing wall.	-	At Grade	09/17/2024	P4	13.9	108.5	100	95	-1 / 3	DPMP		AF
20 /130	Roadway Subgrade: Culvert Crossing No. 1, 350' north of the southwest corner of the intersection of Winsome Wy & Alamar Wy.	5	Below Grade	09/18/2024	P3	12.5	98.6	97	95	-1 / 3	DPMP		AF
16 /131	Roadway Subgrade: Culvert Crossing No. 1, 300' north of the intersection at Winsome Wy & Alamar Wy, south center of path.	5	Below Grade	09/18/2024	P4	13.6	109.4	100	95	-1 / 3	DPMP		AF
17 /132	Roadway Subgrade: Culvert Crossing No. 1, 400' north of the intersection at Winsome Way & Alamar Way, north center of path.	5	Below Grade	09/18/2024	P4	14.7	110.5	101	95	-1 / 3	DPMP		AF
18 /133	Roadway Subgrade: Culvert Crossing No. 1, 50' southeast of the east approach, center of the northbound lane.	5	Below Grade	09/18/2024	P2	8.9	123.1	100	95	-2 / 2	DPMP		AF
19 /134	Roadway Subgrade: Culvert Crossing No. 1, 250' north of the intersection at Winsome Wy & Alamar Wy, south center of path.	5	Below Grade	09/18/2024	P1	8.1	126.5	97	95	-2 / 2	DPMP		AF
21 /135	Roadway Subgrade: Culvert Crossing No. 1, 5' northwest off of the corner of the northeast wing wall.	5	Below Grade	09/19/2024	P3	13.5	100.8	99	95	-1 / 3	DPMP		AF



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Winsome F3
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Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
22 /136	Roadway Subgrade: Culvert Crossing No. 1, southeast side, 10' northwest of the southeast corner of the culvert.	5	Below Grade	09/19/2024	P3	13.6	100.4	99	95	-1 / 3	DPMP		AF
28 /137	Foundation Backfill: Culvert Crossing No. 1, 5' southwest of the northeast corner of the foundation.	3	Below Grade	09/19/2024	P4	13.7	107.5	99	95	-1 / 3	DPMP		AF
29 /138	Foundation Backfill: Culvert Crossing No. 1, 3' northeast of the southwest corner of the culvert.	3	Below Grade	09/19/2024	P4	13.5	107.6	99	95	-1 / 3	DPMP		AF
30 /139	Foundation Backfill: Culvert Crossing No. 1 on Alamar Wy, at the east approach in the northbound lane.	-	At Grade	09/13/2024	P2	9.4	116.9	95	95	-2 / 2	DPMP		BW

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P4	ASTM D698 - A	CL	14.4	109.1
P2	ASTM D698 - A	SC	10.1	123.1
P3	ASTM D698 - A	CL	13.4	101.9
P1	ASTM D1557 - A	SM	7.3	130.7

09/29/2024

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Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
1 /140	Other: WQA pond, trickle channel at spillway.	-	At Grade	09/25/2024	P2	9.3	119.4	97	95	-2 / 2	DPMP		BW

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P2	ASTM D698 - A	SC	10.1	123.1

10/09/2024

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24 /141	Roadway Subgrade: RCB, STA 1068 + 50 on Alamar Way, eastbound lane	-	At Grade	10/03/2024	P5	12.2	113.1	98	95	-2 / 2	DPMP		BW
25 /142	Roadway Subgrade: RCB, STA 1068 + 50 on Alamar Way westbound lane	-	At Grade	10/03/2024	P5	15.4	113.5	99	95	-2 / 2	DPMP		BW
26 /143	Roadway Subgrade: STA 2011 + 50 on Twinkling Star Ln., southbound lane	-	At Grade	10/03/2024	P2	8.2	116.5	95	95	-2 / 2	DPMP		BW
27 /144	Roadway Subgrade: STA 2011 + 50 on Twinkling Star Ln., northbound lane	-	At Grade	10/03/2024	P2	8.2	116.8	95	95	-2 / 2	DPMP		BW
28 /145	Roadway Subgrade: STA 2015 + 00 on Twinkling Star Ln., northbound lane.	-	At Grade	10/03/2024	P2	8.2	117.9	96	95	-2 / 2	DPMP		BW
29 /146	Roadway Subgrade: STA 2015 + 00 on Twinkling Star Ln, southbound lane.	-	At Grade	10/03/2024	P2	8.8	117.0	95	95	-2 / 2	DPMP		BW
30 /147	Roadway Subgrade: RCB, STA 1059 + 55 on Alamar Way, eastbound lane	-	At Grade	10/11/2024	P5	11.6	110.5	96	95	-2 / 2	DPMP		BW
31 /148	Roadway Subgrade: RCB, STA 2028 + 00 on Twinkling Star Ln, center of cul-de-sac	-	At Grade	10/11/2024	P5	10.8	109.9	96	95	-2 / 2	DPMP		BW
32 /149	Roadway Subgrade: RCB, STA 2026 + 00 Twinkling Star Ln. northbound lane	-	At Grade	10/11/2024	P5	11.9	114.5	100	95	-2 / 2	DPMP		BW
33 /150	Roadway Subgrade: RCB, STA 2026 + 25 onTwinkling Star Ln, southbound lane	-	At Grade	10/11/2024	P5	11.2	112.7	98	95	-2 / 2	DPMP		BW
34 /151	Roadway Subgrade: RCB, STA 2024 + 00 on Twinkling Star Ln. northbound lane	-	At Grade	10/11/2024	P5	11.8	113.3	98	95	-2 / 2	DPMP		BW
35 /152	Roadway Subgrade: RCB, STA 2024 + 00 on Twinkling Star Ln, southbound lane	-	At Grade	10/11/2024	P5	10.6	116.5	101	95	-2 / 2	DPMP		BW
36 /153	Roadway Subgrade: RCB, STA 2021 + 50 on Twinkling Star Ln, northbound lane	-	At Grade	10/11/2024	P5	10.7	110.0	96	95	-2 / 2	DPMP		BW
37 /154	Roadway Subgrade: RCB, STA 2021 + 50 on Twinkling Star Ln, southbound lane	-	At Grade	10/11/2024	P5	11.0	112.5	98	95	-2 / 2	DPMP		BW



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38 /155	Roadway Subgrade: RCB, STA 2019 + 50 on Twinkling Star Ln, northbound lane	-	At Grade	10/11/2024	P5	10.7	111.7	97	95	-2 / 2	DPMP		BW
39 /156	Roadway Subgrade: RCB, STA 2019 + 50 on Twinkling Star Ln, southbound lane	-	At Grade	10/11/2024	P5	10.7	110.2	96	95	-2 / 2	DPMP		BW
40 /157	Roadway Subgrade: RCB, STA 2017 + 00 on Twinkling Star Ln, northbound lane	-	At Grade	10/11/2024	P5	10.6	117.1	102	95	-2 / 2	DPMP		BW
41 /158	Roadway Subgrade: RCB, STA 2017 + 00 on Twinkling Star Ln southbound lane	-	At Grade	10/11/2024	P5	10.6	111.3	97	95	-2 / 2	DPMP		BW
42 /159	Roadway Subgrade: RCB, STA 2015 + 50 on Twinkling Star Ln, northbound lane	-	At Grade	10/11/2024	P5	10.7	117.5	102	95	-2 / 2	DPMP		BW
43 /160	Roadway Subgrade: RCB, STA 2015 + 50 on Twinkling Star Ln, southbound lane	-	At Grade	10/11/2024	P5	10.6	115.5	100	95	-2 / 2	DPMP		BW
44 /161	Roadway Subgrade: RCB, STA 2013 + 25 on Twinkling Star Ln, northbound lane	-	At Grade	10/11/2024	P5	11.2	117.1	102	95	-2 / 2	DPMP		BW
45 /162	Roadway Subgrade: RCB, STA 2013 + 25 on Twinkling Star Ln, southbound lane	-	At Grade	10/11/2024	P5	10.9	116.3	101	95	-2 / 2	DPMP		BW
46 /164	Roadway Subgrade: RCB, STA 1068 + 00 on Alamar Way, eastbound lane	-	At Grade	10/11/2024	P5	10.8	110.8	96	95	-2 / 2	DPMP		BW
47 /165	Roadway Subgrade: RCB, STA 1068 + 0 on Alamar Way, westbound lane	-	At Grade	10/11/2024	P5	11.8	110.4	96	95	-2 / 2	DPMP		BW
48 /166	Roadway Subgrade: RCB, STA 1066 + 50 on Alamar Way, eastbound lane	-	At Grade	10/11/2024	P5	11.0	110.5	96	95	-2 / 2	DPMP		BW
49 /167	Roadway Subgrade: RCB, STA 1066 + 50 on Alamar Way, westbound lane	-	At Grade	10/11/2024	P5	11.6	112.4	98	95	-2 / 2	DPMP		BW
50 /168	Roadway Subgrade: RCB, STA 1064 + 00 northbound lane on Alamar Way.	-	At Grade	10/11/2024	P5	10.7	113.4	99	95	-2 / 2	DPMP		BW
51 /169	Roadway Subgrade: RCB, STA 1064 + 00 on Alamar Way, eastbound lane	-	At Grade	10/11/2024	P5	11.8	110.7	96	95	-2 / 2	DPMP		BW
52 /170	Roadway Subgrade: RCB, STA 1062 + 00 on Alamar Way, westbound lane	-	At Grade	10/11/2024	P5	12.0	111.9	97	95	-2 / 2	DPMP		BW



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Soil Density Report

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Project:

240824
Winsome F3
Winsome F3
Colorado Springs, CO

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
53 /171	Roadway Subgrade: STA 1021 + 75 on Alamar Way, northbound lane	-	At Grade	09/26/2024	P2	12.1	120.7	98	95	-2 / 2	DPMP		BW
54 /172	Roadway Subgrade: STA 1021 + 75 on Alamar Way, southbound lane	-	At Grade	09/26/2024	P2	9.9	118.5	96	95	-2 / 2	DPMP		BW
55 /173	Roadway Subgrade: STA 1019 + 50 on Alamar Way, northbound lane	-	At Grade	09/26/2024	P2	10.1	118.8	97	95	-2 / 2	DPMP		BW
56 /174	Roadway Subgrade: STA 1019 + 50 on Alamar Way, southbound lane	-	At Grade	09/26/2024	P2	12.1	120.1	98	95	-2 / 2	DPMP		BW
57 /175	Roadway Subgrade: STA 1009 + 50 on Alamar Way, northbound lane	-	At Grade	09/26/2024	P2	9.6	118.9	97	95	-2 / 2	DPMP		BW
58 /176	Roadway Subgrade: STA 1024 + 00 on Alamar Way northbound lane	-	At Grade	09/26/2024	P2	11.1	117.3	95	95	-2 / 2	DPMP		BW
59 /177	Roadway Subgrade: STA 1013 + 50 Alamar Way northbound lane	-	At Grade	09/26/2024	P2	10.5	119.6	97	95	-2 / 2	DPMP		BW
60 /178	Roadway Subgrade: STA 1013 + 50 on Alamar Way, southbound lane	-	At Grade	09/26/2024	P2	11.0	118.0	96	95	-2 / 2	DPMP		BW
61 /179	Roadway Subgrade: STA 1011 + 50 on Alamar Way, northbound lane	-	At Grade	09/26/2024	P2	8.8	117.2	95	95	-2 / 2	DPMP		BW
62 /180	Roadway Subgrade: STA 1011 + 50 on Alamar Way, northbound lane	-	At Grade	09/26/2024	P2	10.9	117.1	95	95	-2 / 2	DPMP		BW
63 /181	Roadway Subgrade: STA 1009 + 00 on Alamar Way, northbound lane	-	At Grade	09/26/2024	P2	9.9	121.6	99	95	-2 / 2	DPMP		BW
64 /182	Roadway Subgrade: STA 1009 + 00 on Alamar Way, southbound lane	-	At Grade	09/26/2024	P2	8.9	117.3	95	95	-2 / 2	DPMP		BW
65 /183	Roadway Subgrade: STA 1006 + 50 on Alamar Way, eastbound lane	-	At Grade	09/26/2024	P2	8.7	125.8	102	95	-2 / 2	DPMP		BW
66 /184	Roadway Subgrade: STA 1006 + 50 on Alamar Way, westbound lane	-	At Grade	09/26/2024	P2	8.4	120.0	98	95	-2 / 2	DPMP		BW
67 /185	Roadway Subgrade: STA 1004 + 00 on Alamar Way, eastbound lane	-	At Grade	09/26/2024	P2	10.0	118.9	97	95	-2 / 2	DPMP		BW



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68 /186	Roadway Subgrade: STA 1004 + 00 on Alamar Way, westbound lane	-	At Grade	09/26/2024	P2	10.4	119.2	97	95	-2 / 2	DPMP		BW
69 /187	Roadway Subgrade: STA 1002 + 00 on Alamar Way, eastbound lane	-	At Grade	09/26/2024	P2	9.6	120.5	98	95	-2 / 2	DPMP		BW
70 /188	Roadway Subgrade: STA 1002 + 00 on Alamar Way, westbound lane	-	At Grade	09/26/2024	P2	8.6	117.7	96	95	-2 / 2	DPMP		BW
71 /189	Roadway Subgrade: STA 1056 + 50 on Alamar Way northbound lane	-	At Grade	09/30/2024	P2	8.7	117.6	96	95	-2 / 2	DPMP		BW
72 /190	Roadway Subgrade: STA 1056 + 25 on Alamar Way, southbound lane	-	At Grade	09/30/2024	P2	9.0	119.9	97	95	-2 / 2	DPMP		BW
73 /191	Roadway Subgrade: STA 1054 + 00 on Alamar Way, northbound lane	-	At Grade	09/30/2024	P2	8.1	119.8	97	95	-2 / 2	DPMP		BW
74 /192	Roadway Subgrade: STA 1054 + 00 on Alamar Way, southbound lane	-	At Grade	09/30/2024	P2	9.0	117.3	95	95	-2 / 2	DPMP		BW
75 /193	Roadway Subgrade: STA 1051 + 50 on Alamar Way, northbound lane	-	At Grade	09/30/2024	P2	9.8	116.4	95	95	-2 / 2	DPMP		BW
76 /194	Roadway Subgrade: STA 1051 + 50 on Alamar Way, southbound lane	-	At Grade	09/30/2024	P2	9.5	116.7	95	95	-2 / 2	DPMP		BW
77 /195	Roadway Subgrade: RCB, STA 1049 + 00 on Alamar Way, northbound lane	-	At Grade	09/30/2024	P5	14.4	110.8	96	95	-2 / 2	DPMP		BW
78 /196	Roadway Subgrade: RCB, STA 1049 + 00 on Alamar Way, southbound lane	-	At Grade	09/30/2024	P5	14.1	109.3	95	95	-2 / 2	DPMP		BW
79 /197	Roadway Subgrade: RCB, STA 1034 + 25 on Alamar Way eastbound lane	-	At Grade	09/30/2024	P5	14.6	110.0	96	95	-2 / 2	DPMP		BW
80 /198	Roadway Subgrade: RCB, STA 1034 + 25 on Alamar Way, westbound lane	-	At Grade	09/30/2024	P5	14.6	111.2	97	95	-2 / 2	DPMP		BW
81 /199	Roadway Subgrade: RCB, STA 1032 + 00 on Alamar Way, eastbound lane	-	At Grade	09/30/2024	P5	10.6	116.9	102	95	-2 / 2	DPMP		BW
82 /200	Roadway Subgrade: RCB, STA 1032 + 00 on Alamar Way, westbound lane	-	At Grade	09/30/2024	P5	10.6	118.8	103	95	-2 / 2	DPMP		BW



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83 /201	Roadway Subgrade: STA 1059 + 00 on Alamar Way (cistern), northbound lane	-	At Grade	10/01/2024	P2	11.0	117.5	96	95	-2 / 2	DPMP		BW
84 /202	Roadway Subgrade: STA 1062 + 75 on Alamar Way, eastbound lane	-	At Grade	10/01/2024	P2	8.9	120.1	98	95	-2 / 2	DPMP		BW
85 /203	Roadway Subgrade: STA 1062 + 75 on Alamar Way, westbound lane	-	At Grade	10/01/2024	P2	8.7	119.6	97	95	-2 / 2	DPMP		BW
86 /204	Roadway Subgrade: STA 1065 + 25 on Alamar Way, eastbound lane	-	At Grade	10/01/2024	P2	9.9	118.8	97	95	-2 / 2	DPMP		BW
87 /205	Roadway Subgrade: STA 1065 + 25 on Alamar Way, westbound lane	-	At Grade	10/01/2024	P2	10.0	117.6	96	95	-2 / 2	DPMP		BW
88 /206	Roadway Subgrade: STA 1068 + 00 on Alamar Way, eastbound lane	-	At Grade	10/01/2024	P2	8.7	121.1	98	95	-2 / 2	DPMP		BW
89 /207	Roadway Subgrade: STA 1068 + 00 on Alamar Way, westbound	-	At Grade	10/01/2024	P2	10.1	116.9	95	95	-2 / 2	DPMP		BW
90 /208	Roadway Subgrade: STA 2023 + 75 on Twinkling Star Ln, northbound lane	-	At Grade	10/03/2024	P4	13.4	105.9	97	95	-1 / 3	DPMP		BW
91 /209	Roadway Subgrade: RCB, STA 1060 + 00 on Alamar Way, eastbound lane	-	At Grade	10/03/2024	P5	14.5	112.8	98	95	-2 / 2	DPMP		BW
92 /210	Roadway Subgrade: RCB, STA 1060 + 00 on Alamar Way, westbound lane	-	At Grade	10/03/2024	P5	12.8	110.8	96	95	-2 / 2	DPMP		BW
93 /211	Roadway Subgrade: RCB, STA 1063 + 25 on Alamar Way, eastbound lane	-	At Grade	10/03/2024	P5	14.6	114.1	99	95	-2 / 2	DPMP		BW
94 /212	Roadway Subgrade: RCB, STA 1063 + 25 on Alamar Way, westbound lane	-	At Grade	10/03/2024	P5	12.4	111.3	97	95	-2 / 2	DPMP		BW
95 /213	Roadway Subgrade: RCB, STA 1064 + 75 on Alamar Way, eastbound lane	-	At Grade	10/03/2024	P5	13.4	114.8	100	95	-2 / 2	DPMP		BW
96 /214	Roadway Subgrade: RCB, STA 1064 + 75 on Alamar Way, westbound lane	-	At Grade	10/03/2024	P5	12.5	113.1	98	95	-2 / 2	DPMP		BW
97 /215	Roadway Subgrade: STA 2017 + 50 on Twinkling Star Ln, northbound lane	-	At Grade	10/03/2024	P2	10.0	117.0	95	95	-2 / 2	DPMP		BW



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98 /238	Roadway Subgrade: STA 1059 + 00 on Alamar Way (cistern), southbound lane	-	At Grade	10/01/2024	P2	11.4	117.5	96	95	-2 / 2	DP/MP		BW

Remarks

DP/MP : Density Pass / Moisture Pass
DP/MF : Density Pass / Moisture Fail

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P5	ASTM D1557 - B	Cls 6 R.C.	12.6	115.1
P2	ASTM D698 - A	SC	10.1	123.1
P4	ASTM D698 - A	CL	14.4	109.1

10/18/2024

Reviewed by: Joey Goode, PE



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Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
6 /260	Electric/Gas: Main, STA 1056 + 00 on Alamar Way.	-	At Grade	10/21/2024	P5	13.8	109.3	95	95	-2 / 2	DPMP		BW
7 /261	Electric/Gas: Main, STA 2017 + 50 on Twinkling Star Ln.	-	At Grade	10/21/2024	P5	12.2	110.2	96	95	-2 / 2	DPMP		BW
39 /262	Other: Culvert Backfill: Culvert 2, deck, middle of the west lane.	4	Below Grade	10/22/2024	P2	10.1	124.8	101	95	-2 / 2	DPMP		BW
40 /263	Other: Culvert Backfill: Culvert 2, deck, middle of the road.	2	Below Grade	10/22/2024	P2	9.0	121.0	98	95	-2 / 2	DPMP		BW
99 /264	Roadway Subgrade: Culvert 2, north side of the middle deck.	-	At Grade	10/23/2024	P2	9.1	121.8	99	95	-2 / 2	DPMP		BW
100 /265	Roadway Subgrade: Culvert 2, south side of the middle deck.	-	At Grade	10/23/2024	P2	9.2	120.9	98	95	-2 / 2	DPMP		BW
101 /266	Roadway Subgrade: STA 2006 + 00 on Twinkling Star Ln., eastbound lane.	-	At Grade	10/25/2024	P2	11.5	117.4	95	95	-2 / 2	DPMP		BW
102 /267	Roadway Subgrade: STA 2006 + 00 on Twinkling Star Ln., westbound lane.	-	At Grade	10/25/2024	P2	11.1	119.9	97	95	-2 / 2	DPMP		BW
103 /268	Roadway Subgrade: STA 2004 + 00 on Twinkling Star Ln., eastbound lane.	-	At Grade	10/25/2024	P2	11.1	118.4	96	95	-2 / 2	DPMP		BW

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P5	ASTM D1557 - B	Cls 6 R.C.	12.6	115.1
P2	ASTM D698 - A	SC	10.1	123.1



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A handwritten signature in blue ink, appearing to read "Joey Goode".

11/02/2024

Reviewed by: Joey Goode, PE