



ENTECH
ENGINEERING, INC.

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

**DENSITY TESTING SUMMARY
FLYING HORSE NORTH FILING 3
EL PASO COUNTY, COLORADO**

Prepared for:
Classic Communities
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Attn: Adam Doyle

August 27, 2026

Respectfully Submitted,

ENTECH ENGINEERING, INC.

Joseph C. Goode III, P.E.
Sr. Engineer

Entech Job No. 231192

JCG/

Roadway Overlot and Subgrade



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
145 /162	Roadway Subgrade: STA 27 + 50 on Allen Ranch Rd., middle of the road.	1	Below Grade	09/17/2024	P1	8.7	122.6	99	95	-2 / 2	DPMP		AF
146 /163	Roadway Subgrade: STA 27 + 50 on Allen Ranch Rd., middle of the road.	-	At Grade	09/17/2024	P1	7.8	122.5	99	95	-2 / 2	DPMP		AF
147 /164	Roadway Subgrade: STA 26 + 50 on Allen Ranch Rd., middle of the road.	-	At Grade	09/17/2024	P1	7.5	120.4	97	95	-2 / 2	DPMP		AF
148 /165	Roadway Subgrade: STA 1 + 00 on Allen Ranch Rd., middle of the road.	-	At Grade	09/18/2024	P1	8.6	121.8	98	95	-2 / 2	DPMP		AF
149 /166	Roadway Subgrade: STA 27 + 00 at the intersection of Allen Ranch Rd. & Quartz Creek Dr.	-	At Grade	09/19/2024	P1	8.4	120.4	97	95	-2 / 2	DPMP		AF
150 /167	Roadway Subgrade: STA 34 + 00 on Quartz Creek Dr., middle of the road.	3	Below Grade	09/23/2024	P2	12.1	106.9	98	95	-1 / 3	DPMP		AF
151 /170	Roadway Subgrade: STA 34 + 00 on Quartz Creek Dr., middle of the road.	1	Below Grade	09/23/2024	P2	12.6	107.3	98	95	-1 / 3	DPMP		AF
152 /171	Roadway Subgrade: STA 34 + 00 on Quartz Creek Dr., middle of the road.	-	At Grade	09/24/2024	P2	12.0	108.2	99	95	-1 / 3	DPMP		AF
153 /172	Roadway Subgrade: STA 27 + 50 on Quartz Creek Dr., middle of the road.	10	Below Grade	09/23/2024	P1	8.6	122.2	98	95	-2 / 2	DPMP		AF
154 /173	Roadway Subgrade: STA 28 + 00 on Quartz Creek Dr., middle of the road.	8	Below Grade	09/23/2024	P1	7.6	121.5	98	95	-2 / 2	DPMP		AF
155 /174	Roadway Subgrade: STA 28 + 00 on Quartz Creek Dr., middle of the road.	6	Below Grade	09/25/2024	P1	6.5	120.9	97	95	-2 / 2	DPMP		AF
156 /175	Roadway Subgrade: STA 27 + 50 on Quartz Creek Dr., middle of the road.	4	Below Grade	09/25/2024	P1	8.6	120.3	97	95	-2 / 2	DPMP		AF
157 /176	Roadway Subgrade: STA 28 + 00 on Quartz Creek Dr., center of the road.	2	Below Grade	09/26/2024	P1	7.2	120.6	97	95	-2 / 2	DPMP		AF
158 /177	Roadway Subgrade: STA 28 + 00 on Quartz Creek Dr., center of the road.	-	At Grade	09/27/2024	P1	7.3	121.3	98	95	-2 / 2	DPMP		AF
159 /179	Roadway Subgrade: STA 15 + 00 on Quartz Creek Dr., center of the road.	2	Below Grade	10/01/2024	P6	10.3	112.9	97	95	-2 / 2	DPMP		AF



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
160 /180	Roadway Subgrade: STA 17 + 50 on Quartz Creek Dr., center of the road.	2	Below Grade	10/01/2024	P6	10.5	115.0	99	95	-2 / 2	DPMP		AF
161 /181	Roadway Subgrade: STA 15 + 50 on Quartz Creek Dr., center of the road.	-	At Grade	10/02/2024	P6	10.3	111.2	96	95	-2 / 2	DPMP		AF
162 /182	Roadway Subgrade: STA 13 + 00 on Quartz Creek Dr., center of the road.	2	Below Grade	10/07/2024	P6	10.9	114.3	98	95	-2 / 2	DPMP		AF
163 /183	Roadway Subgrade: STA 13 + 00 on Quartz Creek Dr., center of the road.	-	At Grade	10/07/2024	P6	10.2	115.0	99	95	-2 / 2	DPMP		AF
164 /186	Roadway Subgrade: STA 34 + 00 on Quartz Creek Dr., northbound lane.	-	At Grade	04/22/2025	P1	7.5	122.1	98	95	-2 / 2	DPMP		MS
165 /187	Roadway Subgrade: STA 31 + 50 on Quartz Creek Dr., southbound lane.	-	At Grade	04/22/2025	P1	7.0	121.8	98	95	-2 / 2	DPMP		MS
166 /188	Roadway Subgrade: STA 29 + 00 on Quartz Creek Dr., northbound lane.	-	At Grade	04/22/2025	P1	7.3	122.0	98	95	-2 / 2	DPMP		MS
167 /189	Roadway Subgrade: STA 26 + 50 on Quartz Creek Dr., southbound lane.	-	At Grade	04/22/2025	P1	7.2	121.4	98	95	-2 / 2	DPMP		MS
168 /190	Roadway Subgrade: STA 24 + 00 on Quartz Creek Dr., center of the cul-de-sac.	-	At Grade	04/22/2025	P1	6.9	120.7	97	95	-2 / 2	DPMP		MS
169 /191	Roadway Subgrade: STA 21 + 50 on Quartz Creek Dr., eastbound lane.	-	At Grade	04/22/2025	P1	7.9	121.2	97	95	-2 / 2	DPMP		MS
170 /192	Roadway Subgrade: STA 19 + 00 on Quartz Creek Dr., westbound lane.	-	At Grade	04/22/2025	P4	9.2	121.9	97	95	-2 / 2	DPMP		MS
171 /193	Roadway Subgrade: STA 16 + 50 on Quartz Creek Dr., eastbound lane.	-	At Grade	04/22/2025	P4	8.4	122.4	97	95	-2 / 2	DPMP		MS
172 /194	Roadway Subgrade: STA 14 + 00 on Quartz Creek Dr., westbound lane.	-	At Grade	04/22/2025	P6	10.2	112.5	97	95	-2 / 2	DPMP		MS
173 /195	Roadway Subgrade: CTS, STA 11 + 50 on Quartz Creek Dr., eastbound lane.		At Grade	04/23/2025	P4	9.0	120.4	96	95	-2 / 2	DPMP		MS
174 /196	Roadway Subgrade: CTS, STA 14 + 00 on Quartz Creek Dr., eastbound lane.	-	At Grade	04/23/2025	P4	9.2	121.4	96	95	-2 / 2	DPMP		MS
175 /197	Roadway Subgrade: CTS, STA 12 + 50 on Quartz Creek Dr., westbound lane.	-	At Grade	04/23/2025	P4	9.4	124.0	98	95	-2 / 2	DPMP		RL



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
176 /198	Roadway Subgrade: CTS, STA 15 + 00 on Quartz Creek Dr., eastbound lane.	-	At Grade	04/23/2025	P4	10.4	122.8	97	95	-2 / 2	DPMP		RL
177 /199	Roadway Subgrade: CTS, STA 17 + 50 on Quartz Creek Dr., westbound lane.	-	At Grade	04/23/2025	P4	10.7	122.6	97	95	-2 / 2	DPMP		RL
178 /200	Roadway Subgrade: CTS, STA 20 + 00 on Quartz Creek Dr., eastbound lane.	-	At Grade	04/23/2025	P4	9.4	123.3	98	95	-2 / 2	DPMP		RL
179 /201	Roadway Subgrade: CTS, STA 22 + 50 on Quartz Creek Dr., westbound lane.	-	At Grade	04/23/2025	P4	11.3	122.0	97	95	-2 / 2	DPMP		RL
180 /203	Roadway Subgrade: CTS, STA 25 + 00 on Quartz Creek Dr., southbound lane.	-	At Grade	04/23/2025	P4	9.6	121.6	96	95	-2 / 2	DPMP		RL
181 /204	Roadway Subgrade: CTS, STA 27 + 50 on Quartz Creek Dr., northbound lane.	-	At Grade	04/23/2025	P4	9.4	123.4	98	95	-2 / 2	DPMP		RL
182 /205	Roadway Subgrade: CTS, STA 30 + 00 on Quartz Creek Dr., southbound lane.	-	At Grade	04/23/2025	P4	8.7	126.0	100	95	-2 / 2	DPMP		RL
183 /206	Roadway Subgrade: CTS, STA 32 + 50 on Quartz Creek Dr., northbound lane.	-	At Grade	04/23/2025	P4	8.8	125.2	99	95	-2 / 2	DPMP		RL
184 /209	Roadway Subgrade: STA 11 + 00 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/24/2025	P1	7.0	120.3	97	95	-2 / 2	DPMP		RL
185 /210	Roadway Subgrade: STA 13 + 50 on Allen Ranch Rd., westbound lane.	-	At Grade	04/24/2025	P1	8.3	118.6	95	95	-2 / 2	DPMP		RL
186 /211	Roadway Subgrade: STA 16 + 00 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/24/2025	P1	7.9	119.7	96	95	-2 / 2	DPMP		RL
187 /212	Roadway Subgrade: STA 18 + 50 on Allen Ranch Rd., westbound lane.	-	At Grade	04/24/2025	P1	8.5	120.2	97	95	-2 / 2	DPMP		RL
188 /215	Roadway Subgrade: CTS, STA 10 + 00 on Allen Ranch Rd.	-	At Grade	04/24/2025	P1	10.7	118.3	95	95	-2 / 2	DPMP		RL
189 /216	Roadway Subgrade: CTS, STA 11 + 00 on Allen Ranch Rd., westbound lane.	-	At Grade	04/24/2025	P1	10.5	119.5	96	95	-2 / 2	DPMP		RL
190 /217	Roadway Subgrade: CTS, STA 13 + 50 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/24/2025	P1	10.2	117.6	95	95	-2 / 2	DPMP		RL
191 /218	Roadway Subgrade: CTS, STA 16 + 00 on Allen Ranch Rd., westbound lane.	-	At Grade	04/24/2025	P1	10.0	121.3	98	95	-2 / 2	DPMP		RL



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
192 /219	Roadway Subgrade: CTS, STA 18 + 50 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/24/2025	P1	9.9	120.3	97	95	-2 / 2	DPMP		RL
193 /220	Roadway Subgrade: CTS, STA 21 + 00 on Allen Ranch Rd., westbound lane.	-	At Grade	04/24/2025	P1	9.4	122.3	98	95	-2 / 2	DPMP		RL
194 /221	Roadway Subgrade: CTS, STA 23 + 50 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/24/2025	P1	10.2	118.4	95	95	-2 / 2	DPMP		RL
195 /222	Roadway Subgrade: CTS, STA 26 + 00 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/24/2025	P1	8.4	117.9	95	95	-2 / 2	DPMP		RL
196 /223	Roadway Subgrade: STA 27 + 50 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/24/2025	P1	8.2	121.3	98	95	-2 / 2	DPMP		RL
197 /224	Roadway Subgrade: STA 30 + 00 on Allen Ranch Rd., westbound lane.	-	At Grade	04/24/2025	P1	9.1	118.3	95	95	-2 / 2	DPMP		RL
198 /225	Roadway Subgrade: STA 32 + 50 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/24/2025	P1	7.6	119.4	96	95	-2 / 2	DPMP		RL
199 /226	Roadway Subgrade: STA 35 + 00 on Allen Ranch Rd., westbound lane.	-	At Grade	04/24/2025	P1	7.6	121.3	98	95	-2 / 2	DPMP		RL
200 /227	Roadway Subgrade: STA 37 + 50 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/24/2025	P1	8.3	118.7	95	95	-2 / 2	DPMP		RL
201 /228	Roadway Subgrade: STA 40 + 00 on Allen Ranch Rd., westbound lane.	-	At Grade	04/24/2025	P1	9.3	121.6	98	95	-2 / 2	DPMP		RL
202 /229	Roadway Subgrade: STA 20 + 00 on Bourbon Ct., southbound lane.	-	At Grade	04/24/2025	P1	8.6	120.2	97	95	-2 / 2	DPMP		RL
203 /230	Roadway Subgrade: STA 17 + 50 on Bourbon Ct., northbound lane.	-	At Grade	04/24/2025	P1	7.1	119.0	96	95	-2 / 2	DPMP		RL
204 /231	Roadway Subgrade: STA 15 + 00 on Bourbon Ct., southbound lane.	-	At Grade	04/24/2025	P1	8.4	117.6	95	95	-2 / 2	DPMP		RL
205 /232	Roadway Subgrade: STA 12 + 50 on Bourbon Ct., northbound lane.	-	At Grade	04/24/2025	P1	6.8	118.2	95	95	-2 / 2	DPMP		RL
206 /233	Roadway Subgrade: STA 10 + 00 on Bourbon Ct., southbound lane.	-	At Grade	04/24/2025	P1	9.7	123.5	99	95	-2 / 2	DPMP		RL
207 /234	Roadway Subgrade: CTS, STA 27 + 50 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/25/2025	P1	10.4	123.6	99	95	-2 / 2	DPMP		RL



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
208 /235	Roadway Subgrade: CTS, STA 30 + 00 on Allen Ranch Rd., westbound lane.	-	At Grade	04/25/2025	P1	10.3	120.9	97	95	-2 / 2	DPMP		RL
210 /237	Roadway Subgrade: CTS, STA 21 + 50 on Bourbon Ct., middle of the cul-de-sac.	-	At Grade	04/25/2025	P1	10.2	119.6	96	95	-2 / 2	DPMP		RL
211 /238	Roadway Subgrade: CTS, STA 20 + 00 on Bourbon Ct., eastbound lane.	-	At Grade	04/25/2025	P1	9.5	123.9	100	95	-2 / 2	DPMP		RL
212 /239	Roadway Subgrade: CTS, STA 17 + 50 on Bourbon Ct., westbound lane.	-	At Grade	04/25/2025	P1	9.9	117.9	95	95	-2 / 2	DPMP		RL
213 /240	Roadway Subgrade: CTS, STA 17 + 00 on Bourbon Ct., eastbound lane.	-	At Grade	04/25/2025	P1	9.8	119.7	96	95	-2 / 2	DPMP		RL
214 /241	Roadway Subgrade: CTS, STA 16 + 00 on Bourbon Ct., westbound lane.	-	At Grade	04/25/2025	P1	9.4	119.7	96	95	-2 / 2	DPMP		RL
215 /242	Roadway Subgrade: CTS, STA 16 + 50 on Bourbon Ct., westbound lane.	-	At Grade	04/25/2025	P1	10.2	119.2	96	95	-2 / 2	DPMP		RL
216 /243	Roadway Subgrade: CTS, STA 15 + 00 on Bourbon Ct., westbound lane.	-	At Grade	04/25/2025	P1	9.8	120.8	97	95	-2 / 2	DPMP		RL
217 /244	Roadway Subgrade: CTS, STA 12 + 50 on Bourbon Ct., eastbound lane.	-	At Grade	04/25/2025	P1	10.2	118.9	96	95	-2 / 2	DPMP		RL
218 /245	Roadway Subgrade: CTS, STA 10 + 00 on Bourbon Ct., westbound lane.	-	At Grade	04/25/2025	P1	9.6	118.7	95	95	-2 / 2	DPMP		RL
219 /246	Roadway Subgrade: CTS, STA 40 + 00 on Allen Ranch Rd., westbound lane.	-	At Grade	04/25/2025	P1	10.6	118.2	95	95	-2 / 2	DPMP		RL
220 /247	Roadway Subgrade: CTS, STA 37 + 50 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/25/2025	P1	9.7	120.2	97	95	-2 / 2	DPMP		RL
221 /248	Roadway Subgrade: CTS, STA 35 + 00 on Allen Ranch Rd., westbound lane.	-	At Grade	04/25/2025	P1	10.0	118.0	95	95	-2 / 2	DPMP		RL
222 /249	Roadway Subgrade: CTS, STA 32 + 50 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/25/2025	P1	8.7	119.4	96	95	-2 / 2	DPMP		RL
223 /250	Roadway Subgrade: CTS, STA 42 + 50 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/28/2025	P1	10.2	119.1	96	95	-2 / 2	DPMP		MS
224 /251	Roadway Subgrade: CTS, STA 43 + 50 on Allen Ranch Rd., westbound lane.	-	At Grade	04/28/2025	P1	9.5	118.1	95	95	-2 / 2	DPMP		MS



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
225 /252	Roadway Subgrade: CTS, STA 45 + 00 on Allen Ranch Rd., eastbound lane.	-	At Grade	04/28/2025	P1	8.9	117.8	95	95	-2 / 2	DPMP		MS
226 /253	Roadway Subgrade: CTS, STA 47 + 50 on Allen Ranch Rd., westbound lane.	-	At Grade	04/28/2025	P1	9.6	117.5	95	95	-2 / 2	DPMP		MS
227 /254	Roadway Subgrade: CTS, STA 50 + 00 on Allen Ranch Rd., northbound lane.	-	At Grade	04/28/2025	P1	10.3	118.0	95	95	-2 / 2	DPMP		MS
228 /256	Roadway Subgrade: CTS, STA 52 + 50 on Allen Ranch Rd., southbound lane.	-	At Grade	04/28/2025	P1	8.3	118.3	95	95	-2 / 2	DPMP		MS
229 /257	Roadway Subgrade: CTS, STA 55 + 00 on Allen Ranch Rd., northbound lane.	-	At Grade	04/28/2025	P1	10.4	118.1	95	95	-2 / 2	DPMP		MS
230 /260	Roadway Subgrade: CTS, STA 57 + 50 on Allen Ranch Rd., northbound lane.	-	At Grade	04/28/2025	P1	9.2	119.0	96	95	-2 / 2	DPMP		MS
231 /261	Roadway Subgrade: CTS, STA 60 + 00 on Allen Ranch Rd., southbound lane.	-	At Grade	04/29/2025	P6	10.3	110.8	95	95	-2 / 2	DPMP		MS
232 /262	Roadway Subgrade: CTS, STA 62 + 50 on Allen Ranch Rd., northbound lane.	-	At Grade	04/29/2025	P6	11.6	111.2	96	95	-2 / 2	DPMP		MS
233 /263	Roadway Subgrade: CTS, STA 65 + 00 on Allen Ranch Rd., southbound lane.	-	At Grade	04/29/2025	P6	11.1	112.1	96	95	-2 / 2	DPMP		MS
234 /264	Roadway Subgrade: CTS, STA 67 + 50 on Allen Ranch Rd., northbound lane.	-	At Grade	04/29/2025	P1	10.0	118.9	96	95	-2 / 2	DPMP		MS
235 /265	Roadway Subgrade: CTS, STA 70 + 00 on Allen Ranch Rd., southbound lane.	-	At Grade	04/29/2025	P1	8.2	119.7	96	95	-2 / 2	DPMP		MS
236 /274	Roadway Subgrade: STA 71 + 50 on Allen Ranch Rd., northbound lane.	-	At Grade	05/01/2025	P1	8.9	120.4	97	95	-2 / 2	DPMP		MS
237 /275	Roadway Subgrade: STA 74 + 00 on Allen Ranch Rd., northbound lane.	-	At Grade	05/01/2025	P1	7.6	120.9	97	95	-2 / 2	DPMP		MS
238 /276	Roadway Subgrade: STA 76 + 50 on Allen Ranch Rd., southbound lane.	-	At Grade	05/01/2025	P1	9.1	119.8	96	95	-2 / 2	DPMP		MS
239 /277	Roadway Subgrade: CTS, STA 71 + 00 on Allen Ranch Rd., northbound lane.	-	At Grade	05/02/2025	P1	8.7	120.4	97	95	-2 / 2	DPMP		MS
240 /278	Roadway Subgrade: CTS, STA 73 + 50 on Allen Ranch Rd., southbound lane.	-	At Grade	05/02/2025	P1	9.9	119.5	96	95	-2 / 2	DPMP		MS



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
241 /279	Roadway Subgrade: CTS, STA 76 + 00 on Allen Ranch Rd., northbound lane.	-	At Grade	05/02/2025	P1	8.4	119.0	96	95	-2 / 2	DPMP		MS
242 /280	Roadway Subgrade: CTS, STA 78 + 50 on Allen Ranch Rd., southbound lane.	-	At Grade	05/02/2025	P6	10.6	110.8	95	95	-2 / 2	DPMP		MS
243 /298	Roadway Subgrade: STA 75 + 00 on Allen Ranch Rd., northbound lane.	-	At Grade	06/11/2025	P7	4.8	130.8	95	95	-2 / 2	DPMP		MS
244 /299	Roadway Subgrade: STA 76 + 00 on Allen Ranch Rd., southbound lane.	-	At Grade	06/11/2025	P7	5.0	132.1	96	95	-2 / 2	DPMP		MS
245 /300	Roadway Subgrade: STA 78 + 00 on Allen Ranch Rd., southbound lane.	-	At Grade	06/11/2025	P7	4.9	133.0	97	95	-2 / 2	DPMP		MS

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	8.5	124.4
P2	ASTM D698 - A	CL	12.8	109.3
P6	ASTM D1557 - A	SM	12.2	116.5
P4	ASTM D1557 - A	SM	10	126.1
P7	ASTM D1557 - C	SW	5.6	137.1



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
45 / 46	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., center of the road.	12	Below Grade	07/16/2024	P1	7.9	123.6	99	95	-2 / 2	DPMP		AF
46 / 47	Roadway Subgrade: STA 18 + 50 on Allen Ranch Rd., center of the road.	12	Below Grade	07/16/2024	P1	8.2	122.5	99	95	-2 / 2	DPMP		AF
47 / 48	Roadway Subgrade: STA 18 + 50 on Allen Ranch Rd., center of the road.	10	Below Grade	07/16/2024	P1	8.7	124.1	100	95	-2 / 2	DPMP		AF
48 / 49	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., center of the road.	10	Below Grade	07/16/2024	P1	7.8	120.9	97	95	-2 / 2	DPMP		AF
49 / 50	Roadway Subgrade: STA 18 + 00 on Allen Ranch Rd., center of the road.	8	Below Grade	07/16/2024	P1	7.4	122.3	98	95	-2 / 2	DPMP		AF
50 / 51	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., center of the road.	10	Below Grade	07/16/2024	P1	8.9	121.5	98	95	-2 / 2	DPMP		AF
51 / 52	Roadway Subgrade: STA 18 + 50 on Allen Ranch Rd., center of the road.	6	Below Grade	07/16/2024	P1	9.2	121.6	98	95	-2 / 2	DPMP		AF
52 / 53	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., center of the road.	10	Below Grade	07/17/2024	P1	10.0	123.1	99	95	-2 / 2	DPMP		AF
56 / 54	Roadway Subgrade: STA 19 + 00 on Allen Ranch Rd., 15' north of the road.	8	Below Grade	07/17/2024	P1	9.4	118.6	95	95	-2 / 2	DPMP		AF
58 / 55	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., north of the road.	6	Below Grade	07/17/2024	P1	8.7	122.5	99	95	-2 / 2	DPMP		AF
53 / 56	Roadway Subgrade: Center of Allen Ranch Rd, STA 13+00.	-	At Grade	07/09/2024	P1	9.5	122.4	98	95	-2 / 2	DPMP		AF
57 / 57	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., north side of the road.	6	Below Grade	07/17/2024	P1	9.7	120.3	97	95	-2 / 2	DPMP		AF
59 / 58	Roadway Subgrade: STA 18 + 50 on Allen Ranch Rd., north side of the road.	4	Below Grade	07/17/2024	P1	9.6	120.5	97	95	-2 / 2	DPMP		AF
60 / 59	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., north side of the road.	8	Below Grade	07/17/2024	P1	10.1	120.8	97	95	-2 / 2	DPMP		AF
61 / 60	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., 15' north of the westbound lane.	4	Below Grade	07/18/2024	P1	8.0	119.8	96	95	-2 / 2	DPMP		AF



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
54 / 61	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., north side of the road, westbound lane.	6	Below Grade	07/19/2024	P1	6.8	123.6	99	95	-2 / 2	DPMP		AF
62 / 62	Roadway Subgrade: STA 18 + 00 on Allen Ranch Rd., north side of the road, westbound lane.	4	Below Grade	07/19/2024	P1	6.6	117.9	95	95	-2 / 2	DPMP		AF
55 / 63	Roadway Subgrade: STA 20 + 00 on Allen Ranch Rd., southside of the eastbound lane.	6	Below Grade	07/23/2024	P1	8.4	120.2	97	95	-2 / 2	DPMP		AF
63 / 64	Roadway Subgrade: STA 21 + 00 on Allen Ranch Rd., middle of the road.	9	Below Grade	07/24/2024	P1	6.8	121.2	97	95	-2 / 2	DPMP		AF
64 / 65	Roadway Subgrade: STA 22 + 00 on Allen Ranch Rd., middle of the road.	9	Below Grade	07/24/2024	P1	7.1	118.9	96	95	-2 / 2	DPMP		AF
65 / 66	Roadway Subgrade: STA 1 + 50 on Allen Ranch Rd., middle of the road.	2	Below Grade	07/23/2024	P1	7.3	118.5	95	95	-2 / 2	DPMP		AF
66 / 67	Roadway Subgrade: STA 24 + 50 on Allen Ranch Rd., middle of the road.	14	Below Grade	07/25/2024	P1	6.8	123.1	99	95	-2 / 2	DPMP		AF
67 / 68	Roadway Subgrade: STA 24 + 50 on Allen Ranch Rd., middle of the road.	16	Below Grade	07/25/2024	P1	6.6	121.4	98	95	-2 / 2	DPMP		AF
68 / 69	Roadway Subgrade: STA 1 + 50 on Allen Ranch Rd., middle of the road.	-	At Grade	07/23/2024	P1	7.4	121.6	98	95	-2 / 2	DPMP		AF
69 / 70	Roadway Subgrade: STA 23 + 50 on Allen Ranch Rd., middle of the road.	14	Below Grade	07/26/2024	P1	6.9	122.7	99	95	-2 / 2	DPMP		AF
70 / 71	Roadway Subgrade: STA 21 + 00 on Allen Ranch Rd., middle of the road.	11	Below Grade	07/30/2024	P1	6.8	121.5	98	95	-2 / 2	DPMP		AF
71 / 72	Roadway Subgrade: STA 23 + 50 on Allen Ranch Rd., center of the westbound lane.	12	Below Grade	07/29/2024	P1	9.2	121.6	98	95	-2 / 2	DPMP		AF
72 / 77	Roadway Subgrade: STA 21 + 50 on Allen Ranch Rd., middle of the road.	9	Below Grade	07/30/2024	P2	12.5	108.6	99	95	-1 / 3	DPMP		AF
73 / 78	Roadway Subgrade: STA 23 + 00 on Allen Ranch Rd., middle of the road.	10	Below Grade	07/30/2024	P2	12.6	107.8	99	95	-1 / 3	DPMP		AF
74 / 79	Roadway Subgrade: STA 25 + 50 on Allen Ranch Rd., middle of the road.	12	Below Grade	07/30/2024	P2	12.7	110.5	101	95	-1 / 3	DPMP		AF
75 / 80	Roadway Subgrade: STA 21 + 50 on Allen Ranch Rd., middle of the road.	7	Below Grade	07/31/2024	P2	13.6	108.6	99	95	-1 / 3	DPMP		AF



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
76 / 81	Roadway Subgrade: STA 23 + 00 on Allen Ranch Rd., middle of the road.	8	Below Grade	07/31/2024	P2	12.9	107.3	98	95	-1 / 3	DPMP		AF
77 / 82	Roadway Subgrade: STA 25 + 50 on Allen Ranch Rd., middle of the road.	10	Below Grade	07/31/2024	P2	13.5	108.8	100	95	-1 / 3	DPMP		AF
78 / 83	Roadway Subgrade: STA 21 + 50 on Allen Ranch Rd., middle of the road.	5	Below Grade	08/01/2024	P2	13.1	106.2	97	95	-1 / 3	DPMP		AF
79 / 84	Roadway Subgrade: STA 23 + 00 on Allen Ranch Rd., middle of the road.	6	Below Grade	08/01/2024	P2	13.3	106.4	97	95	-1 / 3	DPMP		AF
80 / 85	Roadway Subgrade: STA 25 + 50 on Allen Ranch Rd., middle of the road.	8	Below Grade	08/01/2024	P2	14.0	108.1	99	95	-1 / 3	DPMP		AF
81 / 86	Roadway Subgrade: STA 21+50 on Allen Ranch Rd., center of the road.	3	Below Grade	08/02/2024	P2	12.4	107.6	98	95	-1 / 3	DPMP		AF
82 / 87	Roadway Subgrade: STA 23+00 on Allen Ranch Rd., center of the road.	4	Below Grade	08/02/2024	P2	13.8	107.8	99	95	-1 / 3	DPMP		AF
83 / 88	Roadway Subgrade: STA 25+50 on Allen Ranch Rd., center of the road.	6	Below Grade	08/02/2024	P2	13.2	106.1	97	95	-1 / 3	DPMP		AF
84 / 89	Roadway Subgrade: STA 21 + 50 on Allen Ranch Rd., middle of the road.	1	Below Grade	08/05/2024	P2	13.6	109.6	100	95	-1 / 3	DPMP		AF
85 / 90	Roadway Subgrade: STA 23 + 00 on Allen Ranch Rd., middle of the road.	2	Below Grade	08/05/2024	P2	14.1	107.3	98	95	-1 / 3	DPMP		AF
86 / 91	Roadway Subgrade: STA 25 + 50 on Allen Ranch Rd., middle of the road.	4	Below Grade	08/05/2024	P2	13.7	107.9	99	95	-1 / 3	DPMP		AF
87 / 92	Roadway Subgrade: STA 27 + 00 on Allen Ranch Rd., middle of the road.	8	Below Grade	08/05/2024	P2	13.9	106.4	97	95	-1 / 3	DPMP		AF
88 / 93	Roadway Subgrade: STA 21 + 00 on Allen Ranch Rd., middle of the road.	-	At Grade	08/06/2024	P2	13.9	109.6	100	95	-1 / 3	DPMP		AF
89 / 94	Roadway Subgrade: STA 23 + 00 on Allen Ranch Rd., middle of the road.	-	At Grade	08/06/2024	P2	13.8	108.4	99	95	-1 / 3	DPMP		AF
90 / 95	Roadway Subgrade: STA 25 + 50 on Allen Ranch Rd., middle of the road.	2	Below Grade	08/06/2024	P2	14.2	109.5	100	95	-1 / 3	DPMP		AF
91 / 96	Roadway Subgrade: STA 27 + 00 on Allen Ranch Rd., middle of the road.	6	Below Grade	08/06/2024	P2	15.1	108.3	99	95	-1 / 3	DPMP		AF



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
92 / 97	Roadway Subgrade: STA 25 + 50 on Allen Ranch Rd., middle of the road.	-	At Grade	08/07/2024	P2	12.5	109.7	100	95	-1 / 3	DPMP		AF
93 / 98	Roadway Subgrade: STA 27 + 00 on Allen Ranch Rd., middle of the road.	4	Below Grade	08/07/2024	P2	13.4	109.2	100	95	-1 / 3	DPMP		AF
94 / 104	Roadway Subgrade: STA 41 + 00 on Allen Ranch Rd., middle of the road.	3	Below Grade	08/12/2024	P2	11.8	107.6	98	95	-1 / 3	DPMP		AF
95 / 105	Roadway Subgrade: STA 43 + 50 on Allen Ranch Rd., middle of the eastbound lane.	6	Below Grade	08/12/2024	P2	12.1	106.8	98	95	-1 / 3	DPMP		AF
96 / 106	Roadway Subgrade: STA 41 + 50 on Allen Ranch Rd., middle of the westbound lane.	2	Below Grade	08/13/2024	P2	11.9	109.6	100	95	-1 / 3	DPMP		AF
97 / 107	Roadway Subgrade: STA 44 + 00 on Allen Ranch Rd., middle of the westbound lane.	4	Below Grade	08/13/2024	P2	12.8	108.5	99	95	-2 / 2	DPMP		AF
98 / 108	Roadway Subgrade: STA 46 + 50 on Allen Ranch Rd., middle of the westbound lane.	6	Below Grade	08/13/2024	P2	12.1	109.9	101	95	-2 / 2	DPMP		AF
99 / 109	Roadway Subgrade: STA 41 + 50 on Allen Ranch Rd., middle of the westbound lane.	-	At Grade	08/13/2024	P2	12.3	109.2	100	95	-1 / 3	DPMP		AF
100 / 110	Roadway Subgrade: STA 44 + 00 on Allen Ranch Rd., middle of the westbound lane.	2	Below Grade	08/13/2024	P2	12.9	108.4	99	95	-1 / 3	DPMP		AF
101 / 111	Roadway Subgrade: STA 44 + 00 on Allen Ranch Rd., middle of the westbound lane.	-	At Grade	08/13/2024	P2	12.6	106.9	98	95	-1 / 3	DPMP		AF
102 / 112	Roadway Subgrade: STA 46 + 50 on Allen Ranch Rd., middle of the westbound lane.	4	Below Grade	08/13/2024	P2	13.1	110.1	101	95	-1 / 3	DPMP		AF
103 / 113	Roadway Subgrade: STA 46 + 50 on Allen Ranch Rd., middle of the westbound lane.	2	Below Grade	08/13/2024	P2	13.2	108.5	99	95	-1 / 3	DPMP		AF
104 / 114	Roadway Subgrade: STA 46 + 50 on Allen Ranch Rd., middle of the westbound lane.	-	At Grade	08/13/2024	P2	13.2	108.7	100	95	-1 / 3	DPMP		AF
105 / 115	Roadway Subgrade: STA 46 + 50 on Allen Ranch Rd., middle of the road.	1	Below Grade	08/14/2024	P2	12.6	108.6	99	95	-1 / 3	DPMP		AF
106 / 116	Roadway Subgrade: STA 48 + 00 on Allen Ranch Rd., middle of the road.	5	Below Grade	08/14/2024	P2	12.8	108.7	100	95	-1 / 3	DPMP		AF
107 / 117	Roadway Subgrade: STA 48 + 00 on Allen Ranch Rd., middle of the road.	3	Below Grade	08/14/2024	P2	12.4	109.8	101	95	-1 / 3	DPMP		AF



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
108 /119	Roadway Subgrade: STA 46 + 50 on Allen Ranch Rd., middle of the road.	-	At Grade	08/15/2024	P2	11.9	109.8	101	95	-1 / 3	DPMP		AF
109 /120	Roadway Subgrade: STA 48 + 00 on Allen Ranch Rd., middle of the road.	3	Below Grade	08/15/2024	P2	12.4	108.7	100	95	-1 / 3	DPMP		AF
110 /121	Roadway Subgrade: STA 48 + 00 on Allen Ranch Rd., middle of the road.	1	Below Grade	08/16/2024	P1	7.4	121.6	98	95	-2 / 2	DPMP		AF
111 /122	Roadway Subgrade: STA 49 + 00 on Allen Ranch Rd., middle of the road.	3	Below Grade	08/16/2024	P1	6.8	121.7	98	95	-2 / 2	DPMP		AF
112 /123	Roadway Subgrade: STA 48 + 00 on Allen Ranch Rd., middle of the road.	-	At Grade	08/16/2024	P1	6.8	122.6	99	95	-2 / 2	DPMP		AF
113 /124	Roadway Subgrade: STA 49 + 00 on Allen Ranch Rd., middle of the road.	1	Below Grade	08/19/2024	P1	7.4	122.8	99	95	-2 / 2	DPMP		AF
114 /125	Roadway Subgrade: STA 49 + 00 on Allen Ranch Rd., middle of the road.	-	At Grade	08/19/2024	P1	7.6	123.6	99	95	-2 / 2	DPMP		AF
115 /126	Roadway Subgrade: STA 37 + 00 on Allen Ranch Rd., middle of the road.	1	Below Grade	08/20/2024	P1	6.9	120.6	97	95	-2 / 2	DPMP		AF
116 /127	Roadway Subgrade: STA 10 + 50 on Bourbon Ct., middle of the road.	2	Below Grade	08/20/2024	P2	11.9	106.5	97	95	-1 / 3	DPMP		AF
117 /128	Roadway Subgrade: STA 11 + 50 on Bourbon Ct., middle of the road.	4	Below Grade	08/20/2024	P2	12.0	105.8	97	95	-1 / 3	DPMP		AF
118 /129	Roadway Subgrade: STA 54 + 00 on Allen Ranch Rd., middle of the road.	2	Below Grade	08/22/2024	P2	12.4	106.2	97	95	-1 / 3	DPMP		AF
119 /130	Roadway Subgrade: STA 56 + 50 on Allen Ranch Rd., middle of the road.	1	Below Grade	08/22/2024	P2	12.6	104.3	95	95	-1 / 3	DPMP		AF
120 /131	Roadway Subgrade: STA 37 + 00 on Allen Ranch Rd., middle of the road.	-	At Grade	08/21/2024	P2	12.4	106.7	98	95	-1 / 3	DPMP		AF
121 /132	Roadway Subgrade: STA 54 + 00 on Allen Ranch Rd., middle of the road.	1	Below Grade	08/23/2024	P2	12.3	108.2	99	95	-1 / 3	DPMP		AF
122 /133	Roadway Subgrade: STA 14 + 25 on Bourbon Ct., northbound lane.	15	Below Grade	08/27/2024	P1	6.8	121.6	98	95	-2 / 2	DPMP		AF
123 /134	Roadway Subgrade: STA 14 + 25 on Bourbon Ct., southbound lane.	15	Below Grade	08/27/2024	P1	6.9	121.3	98	95	-2 / 2	DPMP		AF



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
124 /135	Roadway Subgrade: STA 72 + 00 on Allen Ranch Rd., middle of the road.	-	At Grade	08/28/2024	P1	7.1	119.8	96	95	-2 / 2	DPMP		AF
125 /136	Roadway Subgrade: STA 70 + 50 on Allen Ranch Rd., middle of the road.	-	At Grade	08/28/2024	P1	7.3	120.9	97	95	-2 / 2	DPMP		AF
126 /141	Roadway Subgrade: STA 14 + 00 on Bourbon Ct., middle of the road.	14	Below Grade	08/29/2024	P2	12.4	107.2	98	95	-1 / 3	DPMP		AF
127 /142	Roadway Subgrade: STA 14 + 00 on Bourbon Ct., middle of the road.	13	Below Grade	08/30/2024	P1	7.2	121.6	98	95	-2 / 2	DPMP		AF
128 /143	Roadway Subgrade: STA 14 + 25 on Bourbon Ct., middle of the road.	11	Below Grade	09/03/2024	P2	11.9	108.4	99	95	-1 / 3	DPMP		AF
129 /144	Roadway Subgrade: STA 14 + 25 on Bourbon Ct., middle of the road.	10	Below Grade	09/03/2024	P2	12.2	109.2	100	95	-1 / 3	DPMP		AF
130 /145	Roadway Subgrade: STA 14 + 00 on Bourbon Ct., middle of the road.	9	Below Grade	09/04/2024	P2	12.9	106.8	98	95	-1 / 3	DPMP		AF
131 /147	Roadway Subgrade: STA 14 + 00 on Bourbon Ct., middle of the road.	7	Below Grade	09/06/2024	P2	12.5	105.8	97	95	-1 / 3	DPMP		AF
132 /148	Roadway Subgrade: STA 14 + 75 on Bourbon Ct., middle of the road.	8	Below Grade	09/09/2024	P2	12.1	110.1	101	95	-1 / 3	DPMP		AF
133 /149	Roadway Subgrade: STA 14 + 50 on Bourbon Ct., middle of the road.	7	Below Grade	09/09/2024	P1	10.0	119.8	96	95	-2 / 2	DPMP		AF
134 /150	Roadway Subgrade: STA 14 + 75 on Bourbon Ct., middle of the road.	5	Below Grade	09/10/2024	P1	7.4	119.9	96	95	-2 / 2	DPMP		AF
135 /151	Roadway Subgrade: STA 14 + 50 on Bourbon Ct.	4	Below Grade	09/11/2024	P1	7.6	119.8	96	95	-2 / 2	DPMP		AF
136 /152	Roadway Subgrade: STA 14 + 00 on Bourbon Ct., middle of the road.	3	Below Grade	09/12/2024	P1	7.9	120.8	97	95	-2 / 2	DPMP		AF
137 /153	Roadway Subgrade: STA 21 + 00 on Bourbon Ct., middle of the road.	1	Below Grade	09/12/2024	P1	7.6	119.9	96	95	-2 / 2	DPMP		AF
138 /154	Roadway Subgrade: STA 21 + 00 on Bourbon Ct., middle of the road.	-	At Grade	09/12/2024	P1	7.5	120.2	97	95	-2 / 2	DPMP		AF
139 /156	Roadway Subgrade: STA 14 + 25 on Bourbon Ct., middle of the road.	6	Below Grade	09/05/2024	P1	8.7	120.6	97	95	-2 / 2	DPMP		AF



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
140 /157	Roadway Subgrade: STA 14 + 00 on Bourbon Ct., middle of the road.	1	Below Grade	09/13/2024	P1	8.9	121.3	98	95	-2 / 2	DPMP		AF
141 /158	Roadway Subgrade: STA 14 + 00 on Bourbon Ct., middle of the road.	-	At Grade	09/13/2024	P1	9.0	121.6	98	95	-2 / 2	DPMP		AF
142 /159	Roadway Subgrade: STA 35 + 00 on Quartz Creek Dr., middle of the road.	3	Below Grade	09/16/2024	P1	7.2	119.8	96	95	-2 / 2	DPMP		AF
143 /160	Roadway Subgrade: STA 27 + 00 at the intersection of Quartz Creek Dr. & Allen Ranch Rd., middle of the road.	3	Below Grade	09/16/2024	P1	7.2	119.9	96	95	-2 / 2	DPMP		AF
144 /161	Roadway Subgrade: STA 26 + 50 on Allen Ranch Rd., middle of the road.	1	Below Grade	09/17/2024	P1	7.9	121.9	98	95	-2 / 2	DPMP		AF

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	8.5	124.4
P2	ASTM D698 - A	CL	12.8	109.3



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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 / 2	Roadway Subgrade: STA 13 + 00, middle of the road, 50' south of Lot 22.	8	Below Grade	06/27/2024	P1	6.5	123.1	99	95	-2 / 2	DPMP		AF
2 / 3	Roadway Subgrade: STA 15 + 50, middle of the road, 50' south of Lot 22.	8	Below Grade	06/27/2024	P1	7.5	121.5	98	95	-2 / 2	DPMP		AF
3 / 4	Roadway Subgrade: STA 16 + 00, middle of road, 50' south of Lot 23.	7	Below Grade	06/28/2024	P1	6.7	121.9	98	95	-2 / 2	DPMP		AF
4 / 5	Roadway Subgrade: STA 13 + 00, middle of road, 50' south of Lot 22.	7	Below Grade	06/28/2024	P1	6.5	128.3	103	95	-2 / 2	DPMP		AF
5 / 6	Roadway Subgrade: STA 13 + 00, middle of road, 50' south of Lot 22.	7	Below Grade	06/28/2024	P1	7.6	128.3	103	95	-2 / 2	DPMP		AF
6 / 7	Roadway Subgrade: STA 13 + 00, right side of road, 50' south of Lot 22.	6.5	Below Grade	06/29/2024	P1	6.5	122.1	98	95	-2 / 2	DPMP		AF
7 / 8	Roadway Subgrade: STA 13 + 00, middle of road, 50' south of Lot 22.	6.5	Below Grade	06/29/2024	P1	10.5	118.5	95	95	-2 / 2	DPMP		AF
8 / 9	Roadway Subgrade: STA 16 + 00 on Allen Ranch Rd., center of the eastbound lane.	6	Below Grade	07/01/2024	P1	10.1	118.3	95	95	-2 / 2	DPMP		AF
9 / 10	Roadway Subgrade: STA 15 + 50 on Allen Ranch Rd., center of the road.	6	Below Grade	07/01/2024	P1	7.5	120.5	97	95	-2 / 2	DPMP		AF
10 / 11	Roadway Subgrade: STA 13 + 00 on Allen Ranch Rd., center of the road.	6	Below Grade	07/01/2024	P1	10.3	119.5	96	95	-2 / 2	DPMP		AF
11 / 12	Roadway Subgrade: STA 13 + 00 on Allen Ranch Rd., center of the road.	4	Below Grade	07/02/2024	P1	7.5	122.3	98	95	-2 / 2	DPMP		AF
12 / 13	Roadway Subgrade: STA 15 + 50 on Allen Ranch Rd., center of the road.	4.5	Below Grade	07/02/2024	P1	7.3	120.8	97	95	-2 / 2	DPMP		AF
13 / 14	Roadway Subgrade: STA 17 + 00 on Allen Ranch Rd., center of the road.	4.5	Below Grade	07/02/2024	P1	7.1	118.5	95	95	-2 / 2	DPMP		AF
14 / 15	Roadway Subgrade: STA 13 + 00 on Allen Ranch Rd., center of the road.	4	Below Grade	07/03/2024	P1	6.5	122.6	99	95	-2 / 2	DPMP		AF
15 / 16	Roadway Subgrade: STA 15 + 50 on Allen Ranch Rd., center of the road.	4.5	Below Grade	07/03/2024	P1	7.5	119.5	96	95	-2 / 2	DPMP		AF



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
16 / 17	Roadway Subgrade: STA 13 + 00 on Allen Ranch Rd., center of the road.	2.5	Below Grade	07/03/2024	P1	8.0	122.3	98	95	-2 / 2	DPMP		AF
17 / 18	Roadway Subgrade: STA 15 + 50 on Allen Ranch Rd., center of the road.	4	Below Grade	07/08/2024	P1	7.5	118.2	95	95	-2 / 2	DPMP		AF
18 / 19	Roadway Subgrade: STA 17 + 00 on Allen Ranch Rd., center of the road.	4.5	Below Grade	07/08/2024	P1	6.5	122.4	98	95	-2 / 2	DPMP		AF
19 / 20	Roadway Subgrade: STA 13 + 00 on Allen Ranch Rd., center of the road.	2	Below Grade	07/08/2024	P1	6.5	117.5	95	95	-2 / 2	DPMP		AF
20 / 21	Roadway Subgrade: STA 15 + 50 on Allen Ranch Rd., center of the road.	6	Above Grade	07/09/2024	P1	9.5	117.5	95	95	-2 / 2	DPMP		AF
21 / 22	Roadway Subgrade: STA 17 + 00 on Allen Ranch Rd., center of the road.	8	Below Grade	07/09/2024	P1	6.5	119.3	96	95	-2 / 2	DPMP		AF
22 / 23	Roadway Subgrade: STA 13 + 00 on Allen Ranch Rd., eastbound lane.	-	At Grade	07/09/2024	P1	8.7	123.5	99	95	-2 / 2	DPMP		AF
23 / 24	Roadway Subgrade: STA 15 + 50 on Allen Ranch Rd., eastbound lane.	4	Below Grade	07/09/2024	P1	7.4	119.6	96	95	-2 / 2	DPMP		AF
24 / 25	Roadway Subgrade: STA 17 + 00 on Allen Ranch Rd., eastbound lane.	6	Below Grade	07/09/2024	P1	6.8	121.4	98	95	-2 / 2	DPMP		AF
25 / 26	Roadway Subgrade: STA 15 + 50 on Allen Ranch Rd., center of the road.	6	Below Grade	07/09/2024	P1	9.4	122.3	98	95	-2 / 2	DPMP		AF
26 / 27	Roadway Subgrade: STA 17 + 00 on Allen Ranch Rd., center of the road.	6	Below Grade	07/09/2024	P1	8.7	121.8	98	95	-2 / 2	DPMP		AF
27 / 28	Roadway Subgrade: STA 12 + 50 on Allen Ranch Rd., center of the road.	-	At Grade	07/10/2024	P1	7.0	120.8	97	95	-2 / 2	DPMP		AF
28 / 29	Roadway Subgrade: STA 15 + 00 on Allen Ranch Rd., center of the road.	-	At Grade	07/10/2024	P1	9.0	120.3	97	95	-2 / 2	DPMP		AF
29 / 30	Roadway Subgrade: STA 16 + 00 on Allen Ranch Rd., center of the road.	-	At Grade	07/10/2024	P1	9.4	122.6	99	95	-2 / 2	DPMP		AF
30 / 31	Roadway Subgrade: STA 15 + 50 on Allen Ranch Rd., center of the road.	-	At Grade	07/11/2024	P1	9.0	120.4	97	95	-2 / 2	DPMP		AF
31 / 32	Roadway Subgrade: STA 17 + 00 on Allen Ranch Rd., center of the road.	2	Below Grade	07/12/2024	P1	7.0	123.2	99	95	-2 / 2	DPMP		AF



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
32 / 33	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., eastbound lane.	18	Below Grade	07/12/2024	P1	6.6	117.5	95	95	-2 / 2	DPMP		AF
33 / 34	Roadway Subgrade: STA 18 + 50 on Allen Ranch Rd., center eastbound lane.	14	Below Grade	07/12/2024	P1	8.0	120.1	97	95	-2 / 2	DPMP		AF
34 / 35	Roadway Subgrade: STA 19 + 00 on Allen Ranch Rd., southside of eastbound lane.	18	Below Grade	07/13/2024	P1	6.6	117.5	95	95	-2 / 2	DPMP		AF
35 / 36	Roadway Subgrade: STA 18 + 50 on Allen Ranch Rd., southside of eastbound lane.	17	Below Grade	07/13/2024	P1	6.8	119.3	96	95	-2 / 2	DPMP		AF
36 / 37	Roadway Subgrade: STA 18 + 50 on Allen Ranch Rd., northside of westbound lane.	18	Below Grade	07/13/2024	P1	6.7	118.2	95	95	-2 / 2	DPMP		AF
37 / 38	Roadway Subgrade: STA 18 + 50 on Allen Ranch Rd., center of the road.	16	Below Grade	07/15/2024	P1	8.0	122.3	98	95	-2 / 2	DPMP		AF
38 / 39	Roadway Subgrade: STA 18 + 50 on Allen Ranch Rd., northside of the westbound lane.	16	Below Grade	07/15/2024	P1	9.2	119.2	96	95	-2 / 2	DPMP		AF
39 / 40	Roadway Subgrade: STA 18 + 50 on Allen Ranch Rd., southside of the eastbound lane.	16	Below Grade	07/15/2024	P1	7.5	118.7	95	95	-2 / 2	DPMP		AF
40 / 41	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., center of the road.	14	Below Grade	07/15/2024	P1	8.4	123.4	99	95	-2 / 2	DPMP		AF
41 / 42	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., northside of the westbound lane.	14	Below Grade	07/15/2024	P1	10.2	119.3	96	95	-2 / 2	DPMP		AF
42 / 43	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., southside of the eastbound lane.	14	Below Grade	07/15/2024	P1	9.6	118.7	95	95	-2 / 2	DPMP		AF
43 / 44	Roadway Subgrade: STA 18 + 50 on Allen Ranch Rd., center of the road.	12	Below Grade	07/15/2024	P1	7.2	122.5	99	95	-2 / 2	DPMP		AF
44 / 45	Roadway Subgrade: STA 19 + 50 on Allen Ranch Rd., center of the road.	12	Below Grade	07/15/2024	P1	8.7	121.6	98	95	-2 / 2	DPMP		AF

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

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



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North F3
Colorado Springs, CO

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P1	ASTM D1557 - A	SM	8.5	124.4

Storm Water



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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 / 73	Storm Water: STA 0 + 50 on Allen Ranch Rd., 300' southwest of the cul-de-sac (center).	2	Below Grade	08/01/2024	P1	6.8	120.9	97	95	-2 / 2	DPMP		AF
2 / 74	Storm Water: STA 0 + 50 on Allen Ranch Rd., 300' southwest of the cul-de-sac (center).	-	At Grade	08/01/2024	P1	7.1	119.7	96	95	-2 / 2	DPMP		AF
3 / 75	Storm Water: Main, STA 2 + 00, 50' south.	-	At Grade	08/05/2024	P1	6.6	118.5	95	95	-2 / 2	DPMP		AF
4 / 76	Storm Water: Main, STA 1 + 00, south side of the cul-de-sac.	2	Below Grade	08/06/2024	P1	6.8	118.5	95	95	-2 / 2	DPMP		AF
5 / 99	Storm Water: Main, STA 3 + 25 on Allen Ranch Rd., southeast of cul-de-sac.	-	At Grade	08/08/2024	P1	6.8	119.8	96	95	-2 / 2	DPMP		AF
35 / 100	Storm Water: Pond B, emergency spillway box, 3' north & 1' west of the northeast corner of the foundation.	4	Below Grade	08/09/2024	P1	10.1	119.5	96	95	-2 / 2	DPMP		AF
36 / 101	Storm Water: South side of the Pond B emergency spillway box, 5' south of the southwest corner of the foundation.	3	Below Grade	08/08/2024	P1	7.4	118.9	96	95	-2 / 2	DPMP		AF
6 / 102	Storm Water: North side of the emergency spillway box (Pond B), 5' north & 1' east of the northwest corner of the foundation (box).	-	At Grade	08/12/2024	P1	7.3	119.7	96	95	-2 / 2	DPMP		AF
7 / 103	Storm Water: South side of the emergency spillway box (Pond B), 4' south & 1' east of the southwest corner of the foundation (box).	-	At Grade	08/12/2024	P1	7.1	119.8	96	95	-2 / 2	DPMP		AF
8 / 118	Storm Water: Pond B emergency spillway box, west side of the foundation.	-	At Grade	08/14/2024	P1	7.1	119.5	96	95	-2 / 2	DPMP		AF
9 / 137	Storm Water: Northeast side of Pond A, southwest side of the pipe.	-	At Grade	08/28/2024	P1	6.6	118.7	95	95	-2 / 2	DPMP		AF
10 / 138	Storm Water: Northeast side of Pond A, northeast side of the pipe.	-	At Grade	08/28/2024	P1	6.8	119.2	96	95	-2 / 2	DPMP		AF
11 / 139	Storm Water: West side of the outlet crossing on Bourbon Ct.	-	At Grade	08/28/2024	P1	6.6	118.6	95	95	-2 / 2	DPMP		AF
12 / 140	Storm Water: East side of the outlet crossing on Bourbon Ct.	-	At Grade	08/28/2024	P1	6.8	118.3	95	95	-2 / 2	DPMP		AF



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
13 /146	Storm Water: Pond A, east side of the west outlet.	-	At Grade	09/04/2024	P1	7.1	119.8	96	95	-2 / 2	DPMP		AF
14 /155	Storm Water: STA 69 + 25 on Allen Ranch Rd., middle of the road.	2	Below Grade	09/12/2024	P1	6.8	119.7	96	95	-2 / 2	DPMP		AF
15 /168	Storm Water: STA 69 + 25 on Allen Ranch Rd., middle of the road.	-	At Grade	09/24/2024	P1	6.9	119.6	96	95	-2 / 2	DPMP		AF
16 /169	Storm Water: STA 70 + 25 on Allen Ranch Rd., middle of the road.	-	At Grade	09/24/2024	P1	7.0	118.6	95	95	-2 / 2	DPMP		AF
17 /178	Storm Water: Northwest corner of the intersection at Quartz Creek Dr. & Allen Ranch Rd.	-	At Grade	09/30/2024	P1	6.9	119.2	96	95	-2 / 2	DPMP		AF
18 /202	Storm Water: STA 1 + 50 on Allen Ranch Rd.	3	Below Grade	04/23/2025	P1	9.0	118.2	95	95	-2 / 2	DPMP		RL
19 /207	Storm Water: STA 1 + 00 on Allen Ranch Rd., 5' north of the manhole.	4	Below Grade	04/24/2025	P1	9.6	120.7	97	95	-2 / 2	DPMP		RL
20 /208	Storm Water: STA 1 + 50 on Allen Ranch Rd.	3	Below Grade	04/24/2025	P1	10.1	118.3	95	95	-2 / 2	DPMP		RL
21 /213	Storm Water: STA 1 + 00 on Allen Ranch Rd., 2' north of the manhole.	2	Below Grade	04/24/2025	P1	10.8	118.9	96	95	-2 / 2	DPMP		RL
22 /214	Storm Water: STA 1 + 00 on Allen Ranch Rd., 5' north of the manhole.	-	At Grade	04/24/2025	P1	10.4	117.5	95	95	-2 / 2	DPMP		RL
23 /236	Storm Water: STA 2 + 41 on Allen Ranch Rd., 5' west of the manhole.	2	Below Grade	04/25/2025	P2	15.4	106.4	97	95	-1 / 3	DPMP		RL
24 /255	Storm Water: STA 2 + 41 on Allen Ranch Rd., 5' east of the manhole.	-	At Grade	04/28/2025	P1	9.6	117.9	95	95	-2 / 2	DPMP		MS
25 /258	Storm Water: Manhole, STA 3 + 74 on Allen Ranch Rd.	4	Below Grade	04/29/2025	P1	8.6	117.5	95	95	-2 / 2	DPMP		MS
26 /259	Storm Water: Manhole, STA 3 + 74 on Allen Ranch Rd.	-	At Grade	04/29/2025	P1	8.9	119.3	96	95	-2 / 2	DPMP		MS
27 /266	Storm Water: STA 5 + 25 on Allen Ranch Rd.	-	At Grade	04/29/2025	P1	7.1	118.6	95	95	-2 / 2	DPMP		MS
28 /267	Storm Water: STA 6 + 50 on Allen Ranch Rd.	-	At Grade	04/30/2025	P6	10.3	110.8	95	95	-2 / 2	DPMP		MS
29 /268	Storm Water: STA 7 + 30 on Allen Ranch Rd.	2	Below Grade	04/30/2025	P6	10.2	112.7	97	95	-2 / 2	DPMP		MS



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
30 /269	Storm Water: STA 8 + 05 on Allen Ranch Rd.	-	At Grade	04/30/2025	P1	8.3	118.9	96	95	-2 / 2	DPMP		MS
31 /270	Storm Water: Manhole, STA 6 + 81 on Allen Ranch Rd.	2	Below Grade	05/01/2025	P6	10.2	110.5	95	95	-2 / 2	DPMP		MS
32 /271	Storm Water: Manhole, STA 6 + 81 on Allen Ranch Rd.	-	At Grade	05/01/2025	P6	10.4	111.8	96	95	-2 / 2	DPMP		MS
33 /272	Storm Water: Manhole, STA 8 + 80 on Allen Ranch Rd.	2	Below Grade	05/01/2025	P6	11.1	110.4	95	95	-2 / 2	DPMP		MS
34 /273	Storm Water: Manhole, STA 8 + 80 on Allen Ranch Rd.	-	At Grade	05/01/2025	P6	11.0	110.8	95	95	-2 / 2	DPMP		MS

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	8.5	124.4
P2	ASTM D698 - A	CL	12.8	109.3
P6	ASTM D1557 - A	SM	12.2	116.5

Curb & Gutter



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
7 /184	Curb & Gutter: STA 65 + 00 on Allen Ranch Rd., northbound median.	-	At Grade	04/21/2025	P1	8.7	118.1	95	95	-2 / 2	DPMP		MS
8 /185	Curb & Gutter: STA 66 + 00 on Allen Ranch Rd., southbound median.	-	At Grade	04/21/2025	P1	6.6	119.3	96	95	-2 / 2	DPMP		MS
9 /281	Curb & Gutter: STA 56 + 50 on Allen Ranch Rd., northbound lane.	-	At Grade	05/20/2025	P1	7.4	120.5	97	95	-2 / 2	DPMP		MS
10 /282	Curb & Gutter: STA 59 + 00 on Allen Ranch Rd., northbound lane.	-	At Grade	05/20/2025	P1	7.7	119.6	96	95	-2 / 2	DPMP		MS
11 /283	Curb & Gutter: STA 61 + 50 on Allen Ranch Rd., northbound lane.	-	At Grade	05/20/2025	P6	10.6	114.2	98	95	-2 / 2	DPMP		MS
12 /284	Curb & Gutter: STA 64 + 00 on Allen Ranch Rd., northbound lane.	-	At Grade	05/20/2025	P1	8.7	119.6	96	95	-2 / 2	DPMP		MS
13 /285	Curb & Gutter: STA 66 + 50 on Allen Ranch Rd., northbound lane.	-	At Grade	05/20/2025	P1	7.8	118.9	96	95	-2 / 2	DPMP		MS
14 /286	Curb & Gutter: STA 69 + 00 on Allen Ranch Rd., northbound lane.	-	At Grade	05/20/2025	P1	8.3	118.7	95	95	-2 / 2	DPMP		MS
15 /287	Curb & Gutter: STA 71 + 50 on Allen Ranch Rd., northbound lane.	-	At Grade	05/20/2025	P1	8.6	119.3	96	95	-2 / 2	DPMP		MS
16 /288	Curb & Gutter: STA 74 + 00 on Allen Ranch Rd., northbound lane.	-	At Grade	05/20/2025	P1	8.5	118.5	95	95	-2 / 2	DPMP		MS
17 /289	Curb & Gutter: STA 76 + 50 on Allen Ranch Rd., northbound lane.	-	At Grade	05/20/2025	P1	7.5	119.9	96	95	-2 / 2	DPMP		MS
18 /290	Curb & Gutter: STA 75 + 00 on Allen Ranch Rd., southbound lane.	-	At Grade	05/20/2025	P1	7.8	118.9	96	95	-2 / 2	DPMP		MS
19 /291	Curb & Gutter: STA 72 + 50 on Allen Ranch Rd., southbound lane.	-	At Grade	05/20/2025	P1	8.2	120.0	97	95	-2 / 2	DPMP		MS
20 /292	Curb & Gutter: STA 70 + 00 on Allen Ranch Rd., southbound lane.	-	At Grade	05/20/2025	P1	7.1	119.2	96	95	-2 / 2	DPMP		MS
21 /293	Curb & Gutter: STA 67 + 50 on Allen Ranch Rd., southbound lane.	-	At Grade	05/20/2025	P1	6.9	118.0	95	95	-2 / 2	DPMP		MS



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

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
22 /294	Curb & Gutter: STA 65 + 00 on Allen Ranch Rd., southbound lane.	-	At Grade	05/20/2025	P1	7.4	119.3	96	95	-2 / 2	DPMP		MS
23 /295	Curb & Gutter: STA 62 + 50 on Allen Ranch Rd., southbound lane.	-	At Grade	05/20/2025	P1	6.9	118.8	96	95	-2 / 2	DPMP		MS
24 /296	Curb & Gutter: STA 60 + 00 on Allen Ranch Rd., southbound lane.	-	At Grade	05/20/2025	P1	7.4	118.6	95	95	-2 / 2	DPMP		MS
25 /297	Curb & Gutter: STA 57 + 50 on Allen Ranch Rd., southbound lane.	-	At Grade	05/20/2025	P1	8.0	119.2	96	95	-2 / 2	DPMP		MS

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	8.5	124.4
P6	ASTM D1557 - A	SM	12.2	116.5

Asphalt Pavement



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

Density of Asphalt

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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
48	05/12/2025	Bottom Lift, Drive Lane: STA 36 + 00 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	142.0	93	92 / 96	SP	MS	
49	05/12/2025	Bottom Lift, Drive Lane: STA 38 + 50 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.9	92	92 / 96	SP	MS	
50	05/12/2025	Bottom Lift, Drive Lane: STA 41 + 00 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	141.2	92	92 / 96	SP	MS	
51	05/12/2025	Bottom Lift, Drive Lane: STA 43 + 50 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.8	92	92 / 96	SP	MS	
52	05/12/2025	Bottom Lift, Drive Lane: STA 46 + 00 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.1	92	92 / 96	SP	MS	
53	05/12/2025	Bottom Lift, Drive Lane: STA 48 + 50 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.6	92	92 / 96	SP	MS	
54	05/12/2025	Bottom Lift, Drive Lane: STA 51 + 00 on Allen Ranch Rd., southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.2	92	92 / 96	SP	MS	
55	05/12/2025	Bottom Lift, Drive Lane: STA 36 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.2	92	92 / 96	SP	MS	
56	05/12/2025	Bottom Lift, Drive Lane: STA 39 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	141.2	92	92 / 96	SP	MS	
57	05/12/2025	Bottom Lift, Drive Lane: STA 41 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	143.4	94	92 / 96	SP	MS	
58	05/12/2025	Bottom Lift, Drive Lane: STA 43 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.6	92	92 / 96	SP	MS	
59	05/12/2025	Bottom Lift, Drive Lane: STA 45 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.9	92	92 / 96	SP	MS	



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

Density of Asphalt

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North F3
Colorado Springs, CO

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
60	05/12/2025	Bottom Lift, Drive Lane: STA 48 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.9	92	92 / 96	SP	MS	
61	05/13/2025	Top Lift, Drive Lane: STA 21 + 00 on Bourbon Ct., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.1	93	92 / 96	SP	MS	
62	05/13/2025	Top Lift, Drive Lane: STA 18 + 50 on Bourbon Ct., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.6	93	92 / 96	SP	MS	
63	05/13/2025	Top Lift, Drive Lane: STA 16 + 00 on Bourbon Ct., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	145.9	96	92 / 96	SP	MS	
64	05/13/2025	Top Lift, Drive Lane: STA 13 + 50 on Bourbon Ct., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.8	94	92 / 96	SP	MS	
65	05/13/2025	Top Lift, Drive Lane: STA 11 + 00 on Bourbon Ct., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.7	93	92 / 96	SP	MS	
66	05/13/2025	Top Lift, Drive Lane: STA 11 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.2	92	92 / 96	SP	MS	
67	05/13/2025	Top Lift, Drive Lane: STA 13 + 50 on Allen Ranch Rd., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	143.4	94	92 / 96	SP	MS	
68	05/13/2025	Top Lift, Drive Lane: STA 16 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	145.5	95	92 / 96	SP	MS	
69	05/13/2025	Top Lift, Drive Lane: STA 18 + 50 on Allen Ranch Rd., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.4	93	92 / 96	SP	MS	
70	05/13/2025	Top Lift, Drive Lane: STA 21 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	145.8	95	92 / 96	SP	MS	
71	05/13/2025	Top Lift, Drive Lane: STA 23 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.9	94	92 / 96	SP	MS	
72	05/13/2025	Top Lift, Drive Lane: STA 26 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	143.5	94	92 / 96	SP	MS	



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

Density of Asphalt

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North F3
Colorado Springs, CO

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
73	05/14/2025	Top Lift, Drive Lane: STA 28 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	144.6	95	92 / 96	SP	MS	
74	05/14/2025	Top Lift, Drive Lane: STA 31 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.9	94	92 / 96	SP	MS	
75	05/14/2025	Top Lift, Drive Lane: STA 33 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.2	93	92 / 96	SP	MS	
76	05/14/2025	Top Lift, Drive Lane: STA 36 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	143.6	94	92 / 96	SP	MS	
77	05/14/2025	Top Lift, Drive Lane: STA 38 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	143.2	94	92 / 96	SP	MS	
78	05/14/2025	Top Lift, Drive Lane: STA 41 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	145.2	95	92 / 96	SP	MS	
79	05/14/2025	Top Lift, Drive Lane: STA 43 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	145.5	95	92 / 96	SP	MS	
80	05/14/2025	Top Lift, Drive Lane: STA 46 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	144.6	95	92 / 96	SP	MS	
81	05/14/2025	Top Lift, Drive Lane: STA 48 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	144.5	95	92 / 96	SP	MS	
82	05/14/2025	Top Lift, Drive Lane: STA 51 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	143.6	94	92 / 96	SP	MS	
83	05/14/2025	Top Lift, Drive Lane: STA 29 + 50 on Allen Ranch Rd., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.3	93	92 / 96	SP	MS	
84	05/14/2025	Top Lift, Drive Lane: STA 32 + 00 on Allen Ranch Rd., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.8	94	92 / 96	SP	MS	
85	05/14/2025	Top Lift, Drive Lane: STA 34 + 50 on Allen Ranch Rd., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	144.0	94	92 / 96	SP	MS	



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

Density of Asphalt

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North F3
Colorado Springs, CO

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
86	05/14/2025	Top Lift, Drive Lane: STA 37 + 00 on Allen Ranch Rd., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	143.8	94	92 / 96	SP	MS	
87	05/14/2025	Top Lift, Drive Lane: STA 39 + 50 on Allen Ranch Rd., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	143.6	94	92 / 96	SP	MS	
88	05/14/2025	Top Lift, Drive Lane: STA 42 + 00 on Allen Ranch Rd., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.9	93	92 / 96	SP	MS	
89	05/14/2025	Top Lift, Drive Lane: STA 44 + 50 on Allen Ranch Rd., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	143.7	94	92 / 96	SP	MS	
90	05/14/2025	Top Lift, Drive Lane: STA 47 + 00 on Allen Ranch Rd., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.8	93	92 / 96	SP	MS	
91	05/14/2025	Top Lift, Drive Lane: STA 49 + 50 on Allen Ranch Rd., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.5	93	92 / 96	SP	MS	
92	05/14/2025	Top Lift, Joint: STA 47 + 50 on Allen Ranch Rd., longitudinal joint.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.6	93	92 / 96	SP	MS	
93	05/15/2025	Top Lift, Drive Lane: STA 34 + 00 on Quartz Creek Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	141.5	92	92 / 96	SP	MS	
94	05/15/2025	Top Lift, Drive Lane: STA 31 + 50 on Quartz Creek Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	142.0	93	92 / 96	SP	MS	
95	05/15/2025	Top Lift, Drive Lane: STA 29 + 00 on Quartz Creek Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	146.2	95	92 / 96	SP	MS	
96	05/15/2025	Top Lift, Drive Lane: STA 26 + 50 on Quartz Creek Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	144.0	94	92 / 96	SP	MS	
97	05/15/2025	Top Lift, Drive Lane: STA 25 + 50 on Quartz Creek Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	141.6	92	92 / 96	SP	MS	
98	05/15/2025	Top Lift, Drive Lane: STA 28 + 00 on Quartz Creek Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	141.3	92	92 / 96	SP	MS	



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

Density of Asphalt

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North F3
Colorado Springs, CO

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
99	05/15/2025	Top Lift, Drive Lane: STA 30 + 50 on Quartz Creek Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	144.1	94	92 / 96	SP	MS	
100	05/15/2025	Top Lift, Joint: STA 31 + 25 on Quartz Creek Dr., longitudinal joint.	2.0	(1/2") GR SX(75) PG 64-22	153.5	143.4	93	92 / 96	SP	MS	
101	05/15/2025	Top Lift, Drive Lane: STA 33 + 00 on Quartz Creek Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	143.9	94	92 / 96	SP	MS	
102	05/16/2025	Top Lift, Drive Lane: STA 11 + 00 on Quartz Creek Dr., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	144.0	94	92 / 96	SP	MS	
103	05/16/2025	Top Lift, Drive Lane: STA 13 + 50 on Quartz Creek Dr., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	141.6	92	92 / 96	SP	MS	
104	05/16/2025	Top Lift, Drive Lane: STA 16 + 00 on Quartz Creek Dr., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	145.2	95	92 / 96	SP	MS	
105	05/16/2025	Top Lift, Drive Lane: STA 18 + 50 on Quartz Creek Dr., westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	142.4	93	92 / 96	SP	MS	
106	05/16/2025	Top Lift, Drive Lane: STA 21 + 00 on Quartz Creek Dr., eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.5	145.2	95	92 / 96	SP	MS	
107	06/10/2025	Bottom Lift, Drive Lane: STA 64 + 00 on Allen Ranch Rd., northbound lane.	2.0	(3/4") S75 PG 64-22 20% RAP	152.4	140.6	92	92 / 96	SP	MS	
108	06/10/2025	Bottom Lift, Drive Lane: STA 61 + 50 on Allen Ranch Rd., northbound lane.	2.0	(3/4") S75 PG 64-22 20% RAP	152.4	140.6	92	92 / 96	SP	MS	
109	06/10/2025	Bottom Lift, Drive Lane: STA 59 + 00 on Allen Ranch Rd., northbound lane.	2.0	(3/4") S75 PG 64-22 20% RAP	152.4	140.8	92	92 / 96	SP	MS	
110	06/10/2025	Bottom Lift, Drive Lane: STA 56 + 50 on Allen Ranch Rd., northbound lane.	2.0	(3/4") S75 PG 64-22 20% RAP	152.4	140.5	92	92 / 96	SP	MS	
111	06/10/2025	Bottom Lift, Drive Lane: STA 54 + 00 on Allen Ranch Rd., northbound lane.	2.0	(3/4") S75 PG 64-22 20% RAP	152.4	141.1	93	92 / 96	SP	MS	



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

Density of Asphalt

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North F3
Colorado Springs, CO

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
112	06/10/2025	Bottom Lift, Drive Lane: STA 63 + 00 on Allen Ranch Rd., southbound lane.	2.0	(3/4") S75 PG 64-22 20% RAP	152.4	141.7	93	92 / 96	SP	MS	
113	06/10/2025	Bottom Lift, Joint: STA 60 + 50 on Allen Ranch Rd., longitudinal joint.	2.0	(3/4") S75 PG 64-22 20% RAP	152.4	140.1	92	92 / 96	SP	MS	
114	06/10/2025	Bottom Lift, Drive Lane: STA 58 + 00 on Allen Ranch Rd., southbound lane.	2.0	(3/4") S75 PG 64-22 20% RAP	152.4	142.3	93	92 / 96	SP	MS	
115	06/10/2025	Bottom Lift, Drive Lane: STA 55 + 50 on Allen Ranch Rd., southbound lane.	2.0	(3/4") S75 PG 64-22 20% RAP	152.4	143.3	94	92 / 96	SP	MS	
116	06/12/2025	Bottom Lift, Joint: STA 64 + 00 on Allen Ranch Rd., transverse joint.	2.0	(3/4") GR S(75) PG 64-22	152.6	138.6	91	92 / 96	SP	MS	
117	06/12/2025	Bottom Lift, Drive Lane: STA 66 + 50 on Allen Ranch Rd. southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	140.8	92	92 / 96	SP	MS	
118	06/12/2025	Bottom Lift, Drive Lane: STA 69 + 00 on Allen Ranch Rd., southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	142.1	93	92 / 96	SP	MS	
119	06/12/2025	Bottom Lift, Drive Lane: STA 71 + 50 on Allen Ranch Rd., southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	141.4	93	92 / 96	SP	MS	
120	06/12/2025	Bottom Lift, Drive Lane: STA 74 + 00 on Allen Ranch Rd., southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	141.2	93	92 / 96	SP	MS	
121	06/12/2025	Bottom Lift, Drive Lane: STA 65 + 50 on Allen Ranch Rd., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	140.3	92	92 / 96	SP	MS	
122	06/12/2025	Bottom Lift, Drive Lane: STA 68 + 00 on Allen Ranch Rd., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	141.3	93	92 / 96	SP	MS	
123	06/12/2025	Bottom Lift, Drive Lane: STA 70 + 50 on Allen Ranch Rd., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	141.2	93	92 / 96	SP	MS	
124	06/12/2025	Bottom Lift, Drive Lane: STA 73 + 00 on Allen Ranch Rd., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	141.3	93	92 / 96	SP	MS	



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

Density of Asphalt

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North F3
Colorado Springs, CO

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
125	06/12/2025	Bottom Lift, Drive Lane: STA 75 + 50 on Allen Ranch Rd., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	141.6	93	92 / 96	SP	MS	
126	06/12/2025	Bottom Lift, Drive Lane: STA 76 + 50 on Allen Ranch Rd., southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	141.9	93	92 / 96	SP	MS	
127	06/12/2025	Bottom Lift, Drive Lane: STA 78 + 00 on Allen Ranch Rd., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	142.0	93	92 / 96	SP	MS	
128	06/13/2025	Top Lift, Drive Lane: STA 77 + 50 on Allen Ranch Rd., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.8	94	92 / 96	SP	MS	
129	06/13/2025	Top Lift, Drive Lane: STA 75 + 00 on Allen Ranch Rd., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.9	93	92 / 96	SP	MS	
130	06/13/2025	Top Lift, Drive Lane: STA 72 + 50 on Allen Ranch Rd., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.0	93	92 / 96	SP	MS	
131	06/13/2025	Top Lift, Drive Lane: STA 70 + 00 on Allen Ranch Rd., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.5	93	92 / 96	SP	MS	
132	06/13/2025	Top Lift, Drive Lane: STA 67 + 50 on Allen Ranch Rd., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.3	93	92 / 96	SP	MS	
133	06/13/2025	Top Lift, Drive Lane: STA 65 + 00 on Allen Ranch Rd., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.6	93	92 / 96	SP	MS	
134	06/13/2025	Top Lift, Drive Lane: STA 62 + 50 on Allen Ranch Rd., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.1	92	92 / 96	SP	MS	
135	06/13/2025	Top Lift, Drive Lane: STA 60 + 00 on Allen Ranch Rd., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.7	93	92 / 96	SP	MS	
136	06/13/2025	Top Lift, Drive Lane: STA 57 + 50 on Allen Ranch Rd., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	144.2	94	92 / 96	SP	MS	
137	06/13/2025	Top Lift, Drive Lane: STA 55 + 00 on Allen Ranch Rd., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	144.7	95	92 / 96	SP	MS	



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

Density of Asphalt

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North F3
Colorado Springs, CO

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
138	06/13/2025	Top Lift, Drive Lane: STA 78 + 00 on Allen Ranch Rd., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	140.7	92	92 / 96	SP	MS	
139	06/13/2025	Top Lift, Joint: STA 75 + 50 on Allen Ranch Rd., longitudinal joint.	2.0	(1/2") GR SX(75) PG 64-22	152.7	143.3	94	92 / 96	SP	MS	
140	06/13/2025	Top Lift, Drive Lane: STA 73 + 00 on Allen Ranch Rd., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	140.6	92	92 / 96	SP	MS	
141	06/13/2025	Top Lift, Drive Lane: STA 70 + 50 on Allen Ranch Rd., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	140.7	92	92 / 96	SP	MS	
142	06/13/2025	Top Lift, Drive Lane: STA 68 + 00 on Allen Ranch Rd., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.0	93	92 / 96	SP	MS	
143	06/13/2025	Top Lift, Drive Lane: STA 65 + 50 on Allen Ranch Rd., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	140.7	92	92 / 96	SP	MS	
144	06/13/2025	Top Lift, Drive Lane: STA 63 + 00 on Allen Ranch Rd., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	140.5	92	92 / 96	SP	MS	
145	06/13/2025	Top Lift, Drive Lane: STA 60 + 50 on Allen Ranch Rd., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.1	92	92 / 96	SP	MS	
146	06/13/2025	Top Lift, Drive Lane: STA 58 + 00 on Allen Ranch Rd., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	142.1	93	92 / 96	SP	MS	
147	06/13/2025	Top Lift, Drive Lane: STA 55 + 50 on Allen Ranch Rd., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.7	141.7	93	92 / 96	SP	MS	

Remarks

SP : Supplied Density Pass

Comments

Tests are determined using backscatter method.



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

Density of Asphalt

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North 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	05/08/2025	Bottom Lift, Drive Lane: STA 13 + 00 on Quartz Creek Dr., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	140.3	92	92 / 96	SP	MS	
2	05/08/2025	Bottom Lift, Drive Lane: STA 15 + 50 on Quartz Creek Dr., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	139.9	92	92 / 96	SP	MS	
3	05/08/2025	Bottom Lift, Drive Lane: STA 18 + 00 on Quartz Creek Dr., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	142.4	93	92 / 96	SP	MS	
4	05/08/2025	Bottom Lift, Drive Lane: STA 20 + 50 on Quartz Creek Dr., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	142.8	94	92 / 96	SP	MS	
5	05/08/2025	Bottom Lift, Drive Lane: STA 23 + 00 on Quartz Creek Dr., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	141.7	93	92 / 96	SP	MS	
6	05/08/2025	Bottom Lift, Drive Lane: STA 25 + 50 on Quartz Creek Dr., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	141.6	93	92 / 96	SP	MS	
7	05/09/2025	Bottom Lift, Drive Lane: STA 10 + 50 on Quartz Creek Dr., center of the road.	2.0	(3/4") GR S(75) PG 64-22	152.6	140.9	92	92 / 96	SP	MS	
8	05/09/2025	Bottom Lift, Drive Lane: STA 13 + 00 on Quartz Creek Dr., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	140.6	92	92 / 96	SP	MS	
9	05/09/2025	Bottom Lift, Drive Lane: STA 15 + 50 on Quartz Creek Dr., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	139.9	92	92 / 96	SP	MS	
10	05/09/2025	Bottom Lift, Drive Lane: STA 18 + 00 on Quartz Creek Dr., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	140.1	92	92 / 96	SP	MS	
11	05/09/2025	Bottom Lift, Drive Lane: STA 20 + 50 on Quartz Creek Dr., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	140.9	92	92 / 96	SP	MS	
12	05/09/2025	Bottom Lift, Drive Lane: STA 23 + 00 on Quartz Creek Dr., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	140.9	92	92 / 96	SP	MS	



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

Density of Asphalt

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North F3
Colorado Springs, CO

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	05/09/2025	Bottom Lift, Drive Lane: STA 25 + 50 on Quartz Creek Dr., southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	142.6	93	92 / 96	SP	MS	
14	05/09/2025	Bottom Lift, Drive Lane: STA 28 + 00 on Quartz Creek Dr., southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	141.6	93	92 / 96	SP	MS	
15	05/09/2025	Bottom Lift, Drive Lane: STA 29 + 50 on Quartz Creek Dr., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	141.8	93	92 / 96	SP	MS	
16	05/09/2025	Bottom Lift, Drive Lane: STA 30 + 50 on Quartz Creek Dr., southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	140.3	92	92 / 96	SP	MS	
17	05/09/2025	Bottom Lift, Drive Lane: STA 11 + 00 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	140.6	92	92 / 96	SP	MS	
18	05/09/2025	Bottom Lift, Drive Lane: STA 13 + 50 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	140.8	92	92 / 96	SP	MS	
19	05/09/2025	Bottom Lift, Drive Lane: STA 16 + 00 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	140.3	92	92 / 96	SP	MS	
20	05/09/2025	Bottom Lift, Drive Lane: STA 18 + 50 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.6	139.7	92	92 / 96	SP	MS	
21	05/10/2025	Bottom Lift, Drive Lane: STA 11 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.3	92	92 / 96	SP	MS	
22	05/10/2025	Bottom Lift, Drive Lane: STA 14 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.2	92	92 / 96	SP	MS	
23	05/10/2025	Bottom Lift, Joint: STA 15 + 00 on Allen Ranch Rd., longitudinal joint.	2.0	(3/4") GR S(75) PG 64-22	152.8	138.6	91	92 / 96	SP	MS	
24	05/10/2025	Bottom Lift, Drive Lane: STA 16 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.0	92	92 / 96	SP	MS	
25	05/10/2025	Bottom Lift, Drive Lane: STA 19 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	139.9	92	92 / 96	SP	MS	



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

Density of Asphalt

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North F3
Colorado Springs, CO

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
26	05/10/2025	Bottom Lift, Drive Lane: STA 21 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	142.0	93	92 / 96	SP	MS	
27	05/10/2025	Bottom Lift, Drive Lane: STA 24 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.2	92	92 / 96	SP	MS	
28	05/10/2025	Bottom Lift, Drive Lane: STA 26 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	141.9	93	92 / 96	SP	MS	
29	05/10/2025	Bottom Lift, Drive Lane: STA 29 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	141.4	93	92 / 96	SP	MS	
30	05/10/2025	Bottom Lift, Drive Lane: STA 31 + 50 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.4	92	92 / 96	SP	MS	
31	05/10/2025	Bottom Lift, Drive Lane: STA 34 + 00 on Allen Ranch Rd., eastbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	141.8	93	92 / 96	SP	MS	
32	05/10/2025	Bottom Lift, Drive Lane: STA 21 + 00 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	139.9	92	92 / 96	SP	MS	
33	05/10/2025	Bottom Lift, Drive Lane: STA 23 + 50 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.0	92	92 / 96	SP	MS	
34	05/10/2025	Bottom Lift, Drive Lane: STA 26 + 00 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	141.7	93	92 / 96	SP	MS	
35	05/10/2025	Bottom Lift, Drive Lane: STA 28 + 50 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.3	92	92 / 96	SP	MS	
36	05/10/2025	Bottom Lift, Drive Lane: STA 31 + 00 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.0	92	92 / 96	SP	MS	
37	05/10/2025	Bottom Lift, Drive Lane: STA 33 + 50 on Allen Ranch Rd., westbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	139.9	92	92 / 96	SP	MS	
38	05/12/2025	Bottom Lift, Drive Lane: STA 21 + 00 on Bourbon Ct., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.5	92	92 / 96	SP	MS	



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

Density of Asphalt

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

231192
Flying Horse North F3
Flying Horse North F3
Colorado Springs, CO

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
39	05/12/2025	Bottom Lift, Drive Lane: STA 20 + 00 on Bourbon Ct., southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.3	92	92 / 96	SP	MS	
40	05/12/2025	Bottom Lift, Drive Lane: STA 17 + 50 on Bourbon Ct., southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	139.9	92	92 / 96	SP	MS	
41	05/12/2025	Bottom Lift, Drive Lane: STA 15 + 00 on Bourbon Ct., southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.1	92	92 / 96	SP	MS	
42	05/12/2025	Bottom Lift, Drive Lane: STA 12 + 50 on Bourbon Ct., southbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.0	92	92 / 96	SP	MS	
43	05/12/2025	Bottom Lift, Drive Lane: STA 18 + 50 on Bourbon Ct., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.0	92	92 / 96	SP	MS	
44	05/12/2025	Bottom Lift, Drive Lane: STA 16 + 00 on Bourbon Ct., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	140.2	92	92 / 96	SP	MS	
45	05/12/2025	Bottom Lift, Drive Lane: STA 13 + 50 on Bourbon Ct., northbound lane.	143.4	(3/4") GR S(75) PG 64-22	152.8	142.2	93	92 / 96	SP	MS	
46	05/12/2025	Bottom Lift, Drive Lane: STA 11 + 00 on Bourbon Ct., northbound lane.	2.0	(3/4") GR S(75) PG 64-22	152.8	141.1	92	92 / 96	SP	MS	
47	05/12/2025	Bottom Lift, Joint: STA 12 + 00 on Bourbon Ct., longitudinal joint.	2.0	(3/4") GR S(75) PG 64-22	152.8	138.6	91	92 / 96	SP	MS	

Remarks

SP : Supplied Density Pass

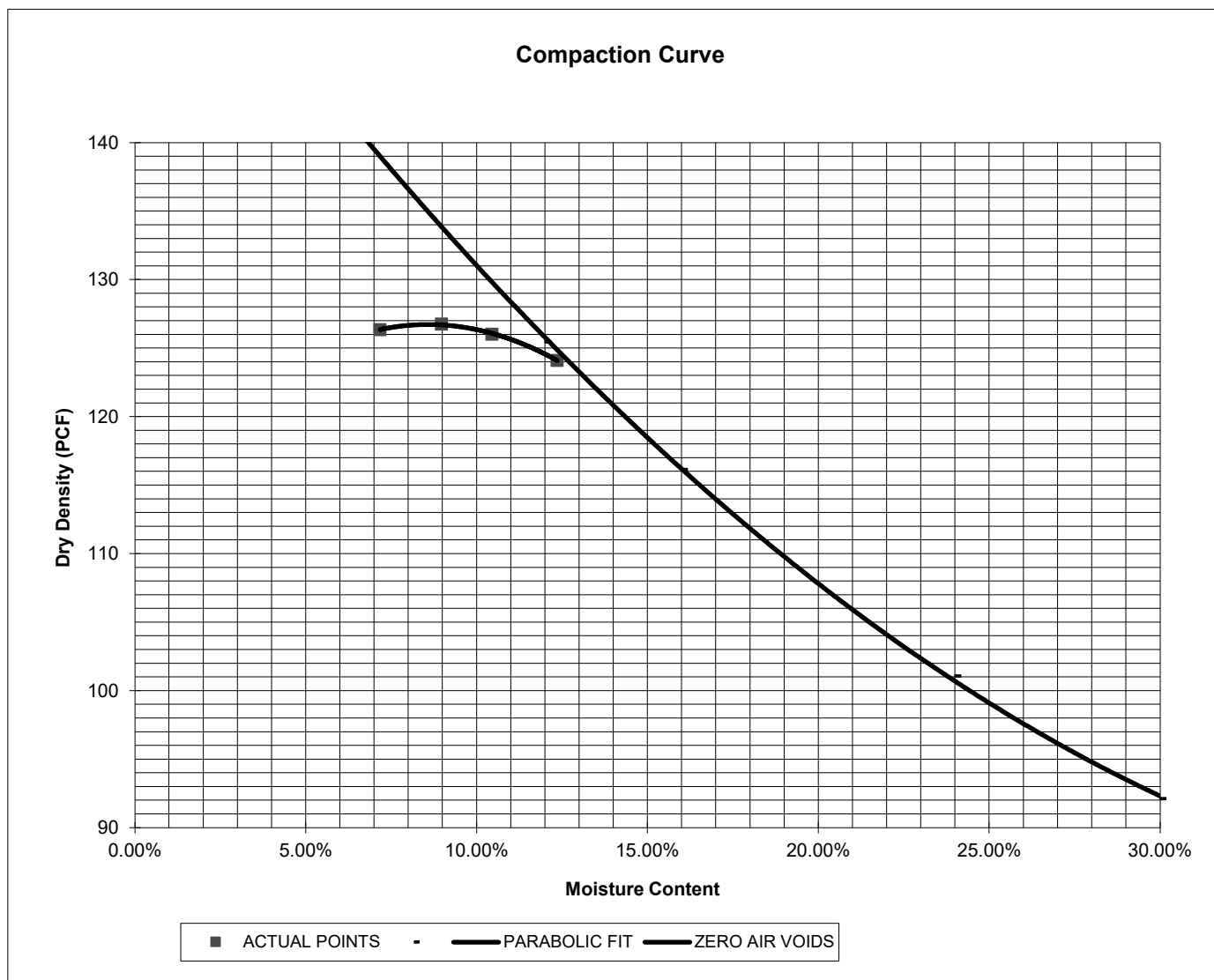
Comments

Tests are determined using backscatter method.

Appendix A: Proctor Laboratory Data

<u>PROJECT</u>	FLYING HORSE NORTH, FILING NO. 3	<u>CLIENT</u>	FLYING HORSE DEVELOPMENT
<u>SAMPLE LOCATION</u>	ALLEN RANCH	<u>JOB NO.</u>	231192
<u>SOIL DESCRIPTION</u>	SAND, WITH SILT, TAN	<u>DATE</u>	06/27/24

<u>IDENTIFICATION</u>	SW-SM	<u>PROCTOR TEST #</u>	1
<u>TEST DESIGNATION / METHOD</u>	ASTM D-1557-A	<u>TEST BY</u>	BL
<u>MAXIMUM DRY DENSITY (PCF)</u>	124.4	<u>OPTIMUM MOISTURE</u>	8.5%



ENTECH
ENGINEERING, INC.

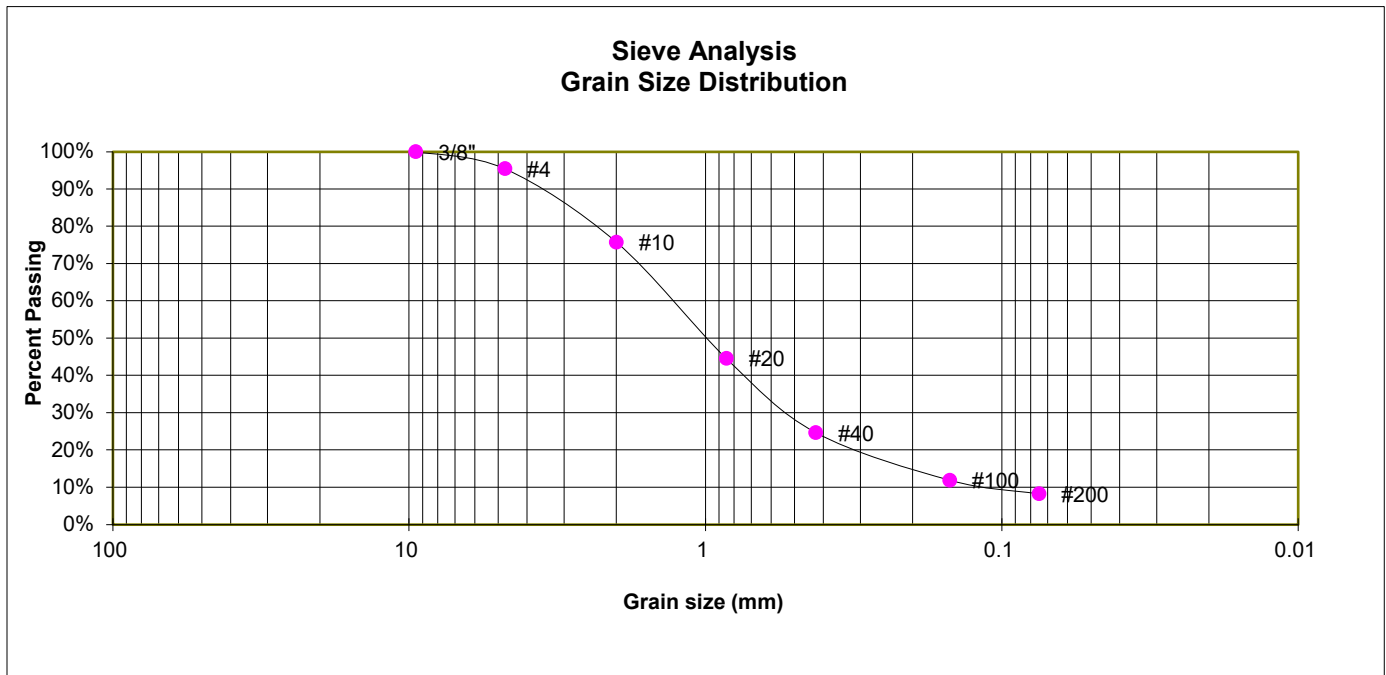
MOISTURE DENSITY RELATION

FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

JOB NO.
231192

P1

<u>LOCATION</u>	ALLEN RANCH	<u>SOIL DESCRIPTION</u>	SAND, WITH SILT, TAN
-----------------	-------------	-------------------------	----------------------



**U.S.
Sieve #**

**Percent
Finer**

Atterberg Limits

Plastic Limit NP
Liquid Limit NV
Plastic Index NP

3"	
1 1/2"	
3/4"	
1/2"	
3/8"	100.0%
4	95.5%
10	75.7%
20	44.6%
40	24.7%
100	11.9%
200	8.2%



ENTECH
ENGINEERING, INC.

LABORATORY TEST RESULTS

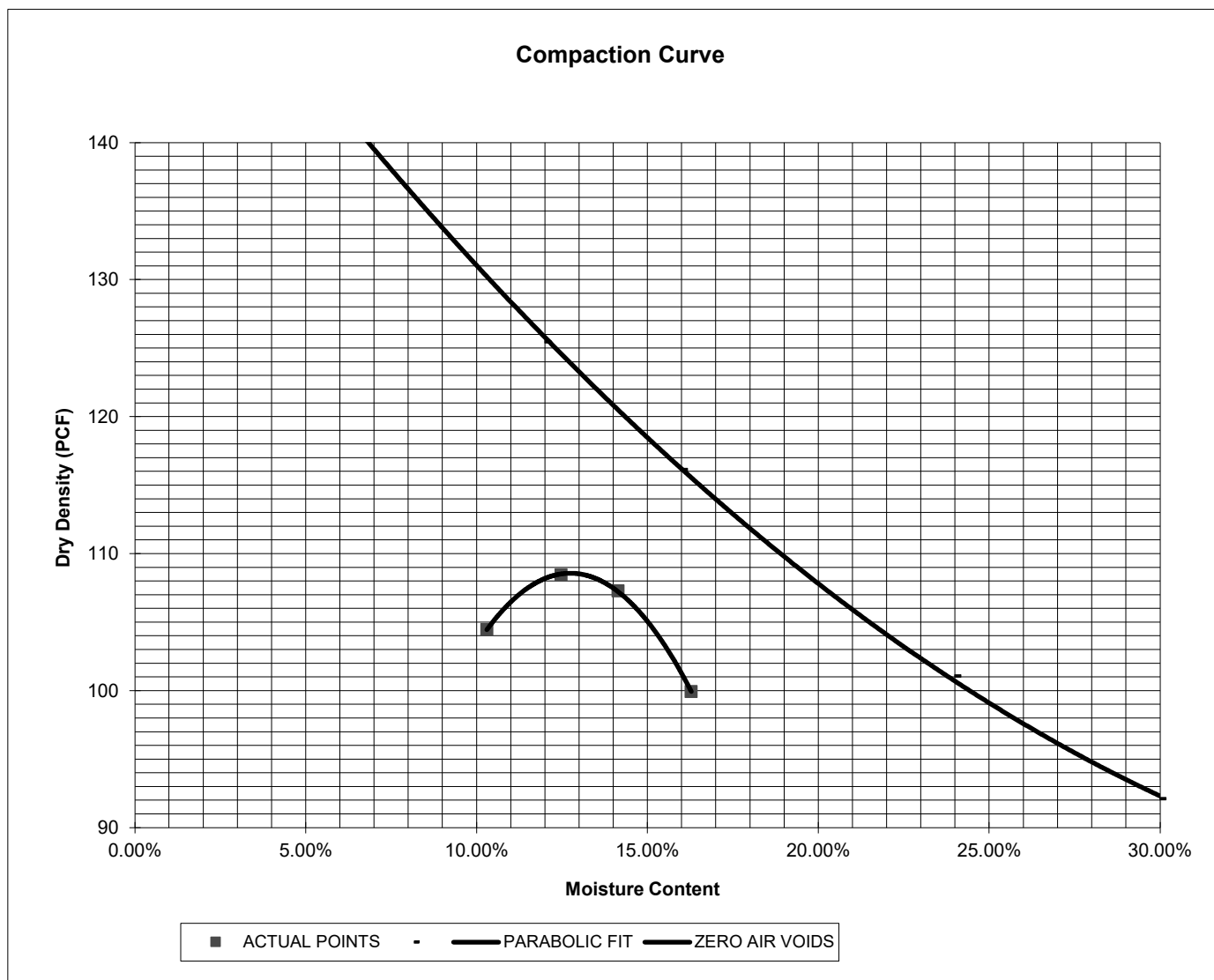
FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

JOB NO.
231192

P1

<u>PROJECT</u>	FLYING HORSE NORTH, FILING NO. 3	<u>CLIENT</u>	FLYING HORSE DEVELOPMENT
<u>SAMPLE LOCATION</u>	STA 21+00	<u>JOB NO.</u>	231192
<u>SOIL DESCRIPTION</u>	CLAY, SANDY, BROWN	<u>DATE</u>	08/07/24

<u>IDENTIFICATION</u>	CL	<u>PROCTOR TEST #</u>	2
<u>TEST DESIGNATION / METHOD</u>	ASTM D-698-A	<u>TEST BY</u>	BL
<u>MAXIMUM DRY DENSITY (PCF)</u>	109.3	<u>OPTIMUM MOISTURE</u>	12.8%



ENTECH
ENGINEERING, INC.

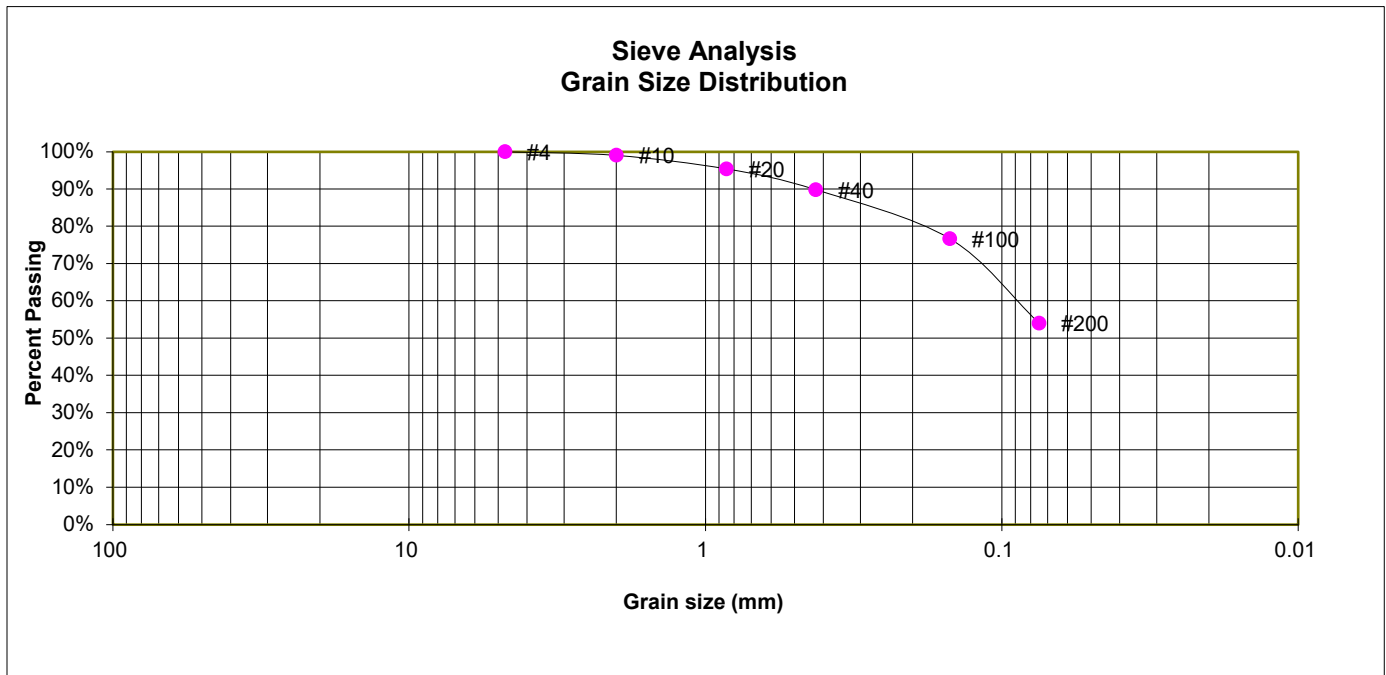
MOISTURE DENSITY RELATION

FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

JOB NO.
231192

P2

<u>LOCATION</u>	STA 21+00	<u>SOIL DESCRIPTION</u>	CLAY, SANDY, BROWN
-----------------	-----------	-------------------------	--------------------



**U.S.
Sieve #**

**Percent
Finer**

Atterberg Limits

Plastic Limit 21
Liquid Limit 30
Plastic Index 9

3"	
1 1/2"	
3/4"	
1/2"	
3/8"	
4	100.0%
10	99.1%
20	95.4%
40	89.8%
100	76.7%
200	54.0%



ENTECH
ENGINEERING, INC.

LABORATORY TEST RESULTS

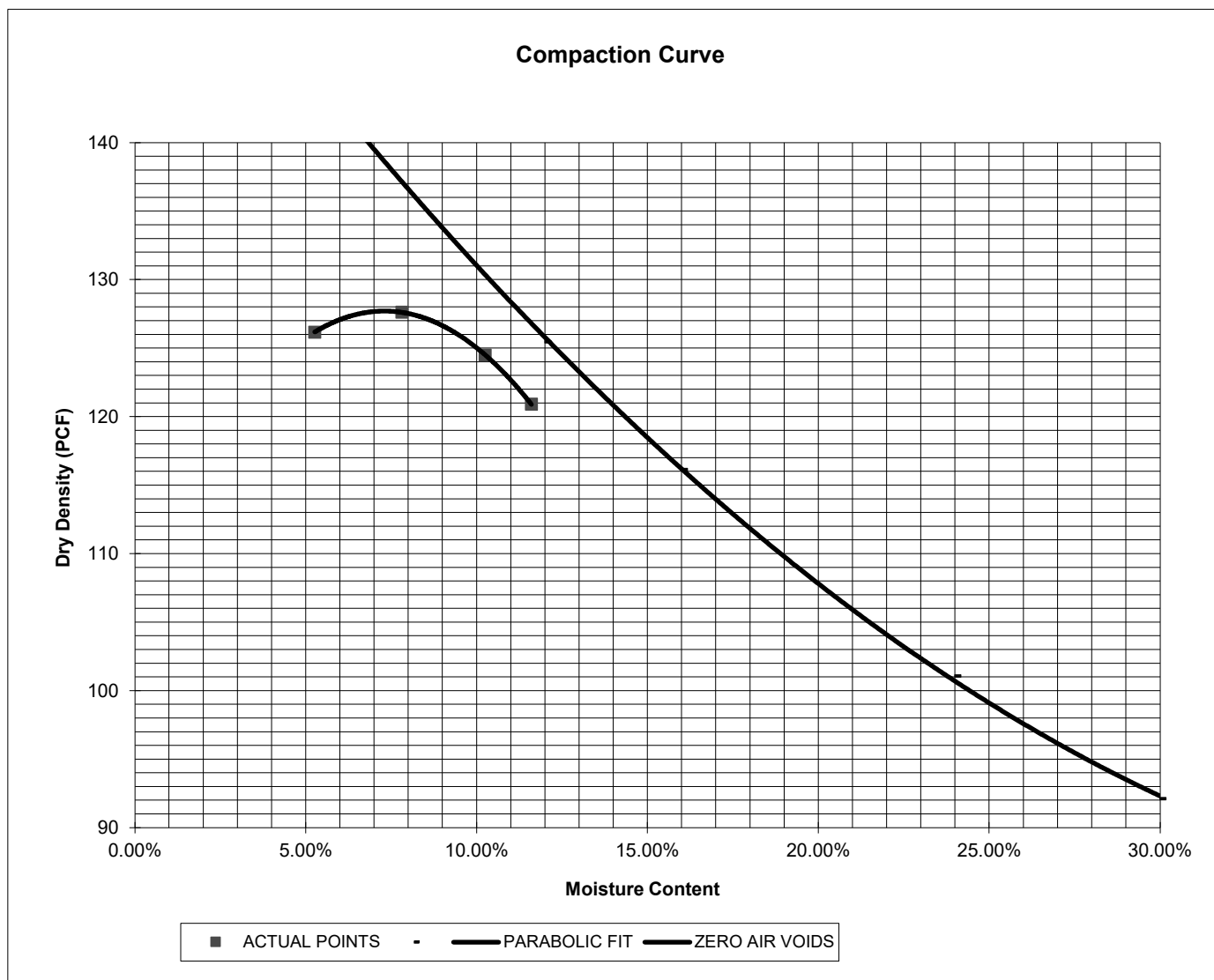
FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

JOB NO.
231192

P2

<u>PROJECT</u>	FLYING HORSE NORTH, FILING NO. 3	<u>CLIENT</u>	FLYING HORSE DEVELOPMENT
<u>SAMPLE LOCATION</u>	ALLEN RANCH	<u>JOB NO.</u>	231192
<u>SOIL DESCRIPTION</u>	SAND, SILTY, TAN	<u>DATE</u>	07/30/24

<u>IDENTIFICATION</u>	SM	<u>PROCTOR TEST #</u>	3
<u>TEST DESIGNATION / METHOD</u>	ASTM D-1557-A	<u>TEST BY</u>	BL
<u>MAXIMUM DRY DENSITY (PCF)</u>	128.4	<u>OPTIMUM MOISTURE</u>	7.3%



ENTECH
ENGINEERING, INC.

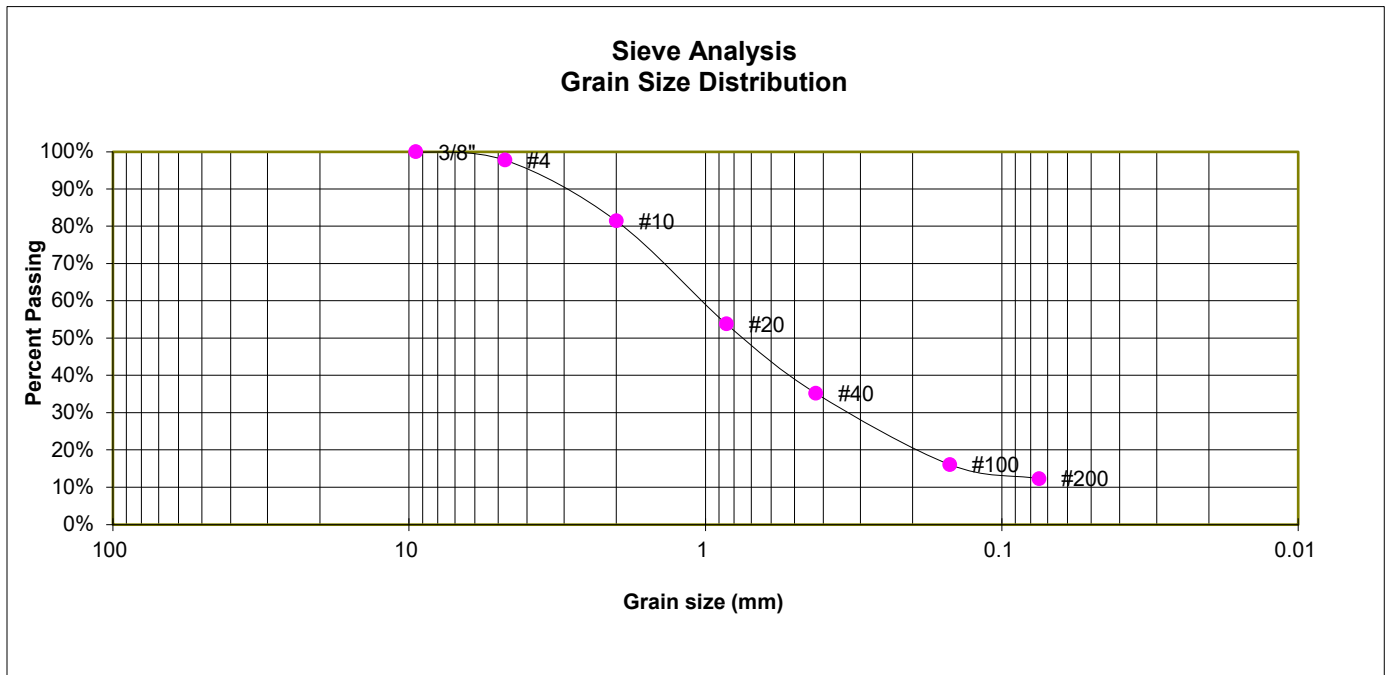
MOISTURE DENSITY RELATION

FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

JOB NO.
231192

P3

<u>LOCATION</u>	ALLEN RANCH	<u>SOIL DESCRIPTION</u>	SAND, SILTY, TAN
-----------------	-------------	-------------------------	------------------



<u>U.S. Sieve #</u>	<u>Percent Finer</u>
3"	
1 1/2"	
3/4"	
1/2"	
3/8"	100.0%
4	97.8%
10	81.5%
20	53.8%
40	35.2%
100	16.1%
200	12.3%

<u>Atterberg Limits</u>	
Plastic Limit	NP
Liquid Limit	NV
Plastic Index	NP



ENTECH
ENGINEERING, INC.

LABORATORY TEST RESULTS

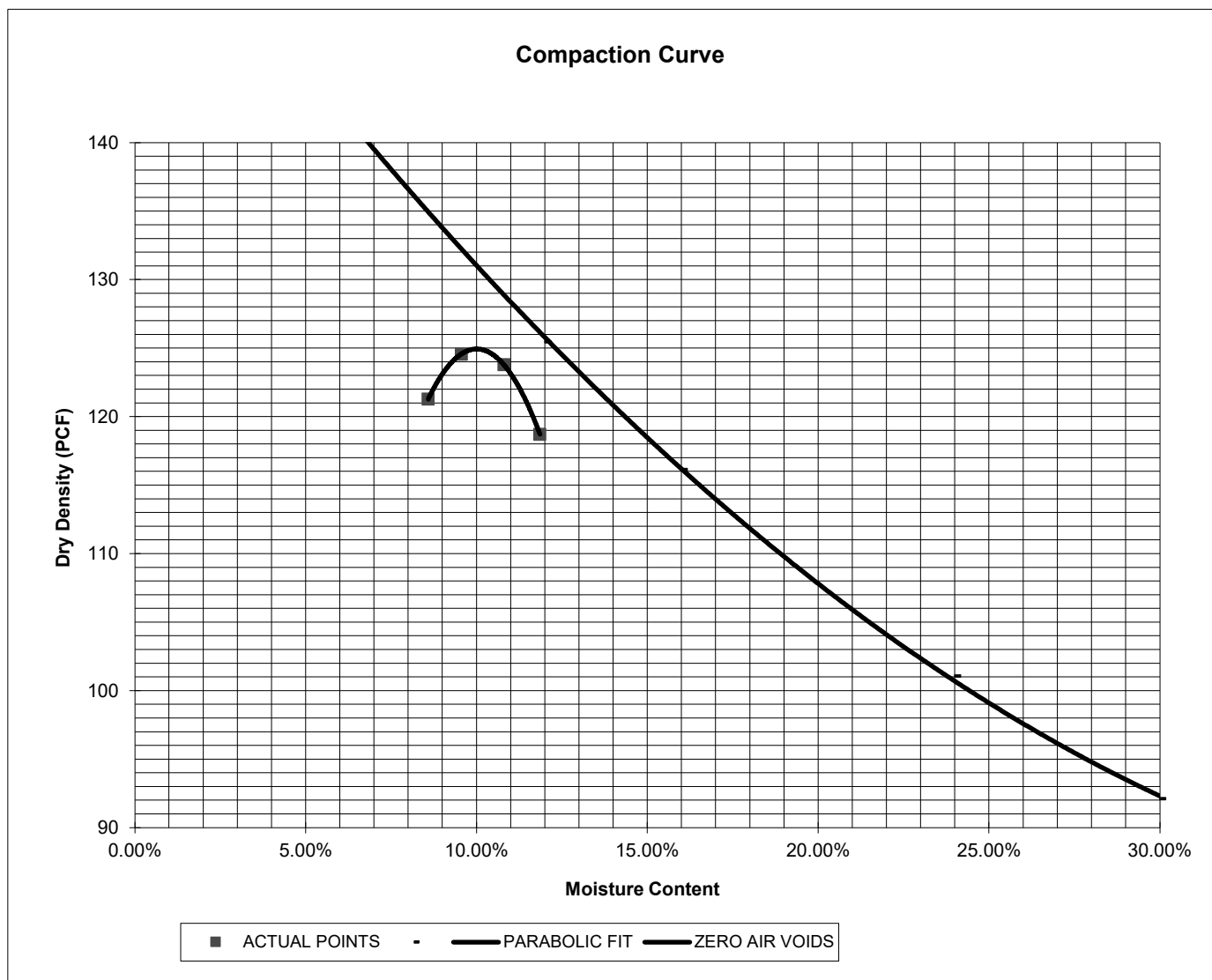
FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

JOB NO.
231192

P3

<u>PROJECT</u>	FLYING HORSE NORTH, FILING NO. 3	<u>CLIENT</u>	FLYING HORSE DEVELOPMENT
<u>SAMPLE LOCATION</u>	POND B, NW CORNER	<u>JOB NO.</u>	231192
<u>SOIL DESCRIPTION</u>	SAND, WITH SILT, TAN	<u>DATE</u>	09/09/24

<u>IDENTIFICATION</u>	SW-SM	<u>PROCTOR TEST #</u>	4
<u>TEST DESIGNATION / METHOD</u>	ASTM D-1557-A	<u>TEST BY</u>	BL
<u>MAXIMUM DRY DENSITY (PCF)</u>	126.1	<u>OPTIMUM MOISTURE</u>	10.0%



ENTECH
ENGINEERING, INC.

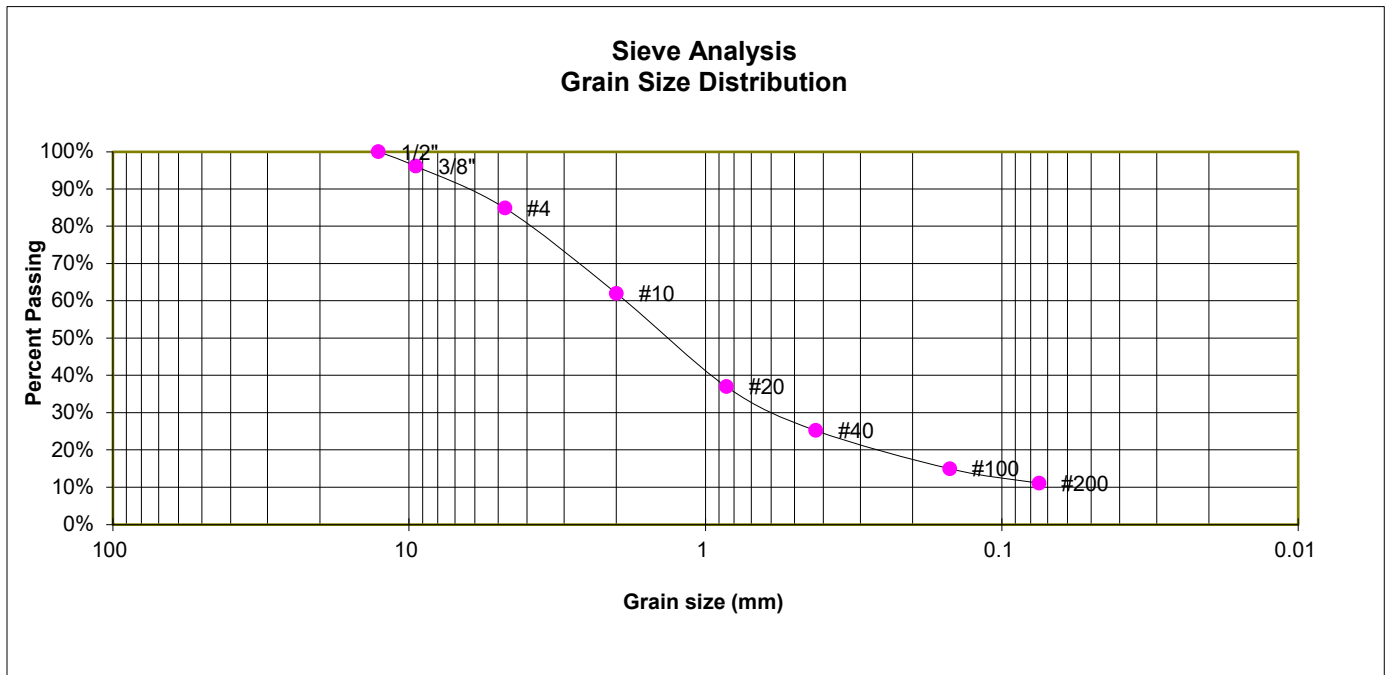
MOISTURE DENSITY RELATION

FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

JOB NO.
231192

P4

<u>LOCATION</u>	POND B, NW CORNER	<u>SOIL DESCRIPTION</u>	SAND, WITH SILT, TAN
-----------------	-------------------	-------------------------	----------------------



<u>U.S. Sieve #</u>	<u>Percent Finer</u>
3"	
1 1/2"	
3/4"	
1/2"	100.0%
3/8"	96.1%
4	84.9%
10	62.0%
20	37.0%
40	25.2%
100	15.0%
200	11.1%

<u>Atterberg Limits</u>	
Plastic Limit	NP
Liquid Limit	NV
Plastic Index	NP



ENTECH
ENGINEERING, INC.

LABORATORY TEST RESULTS

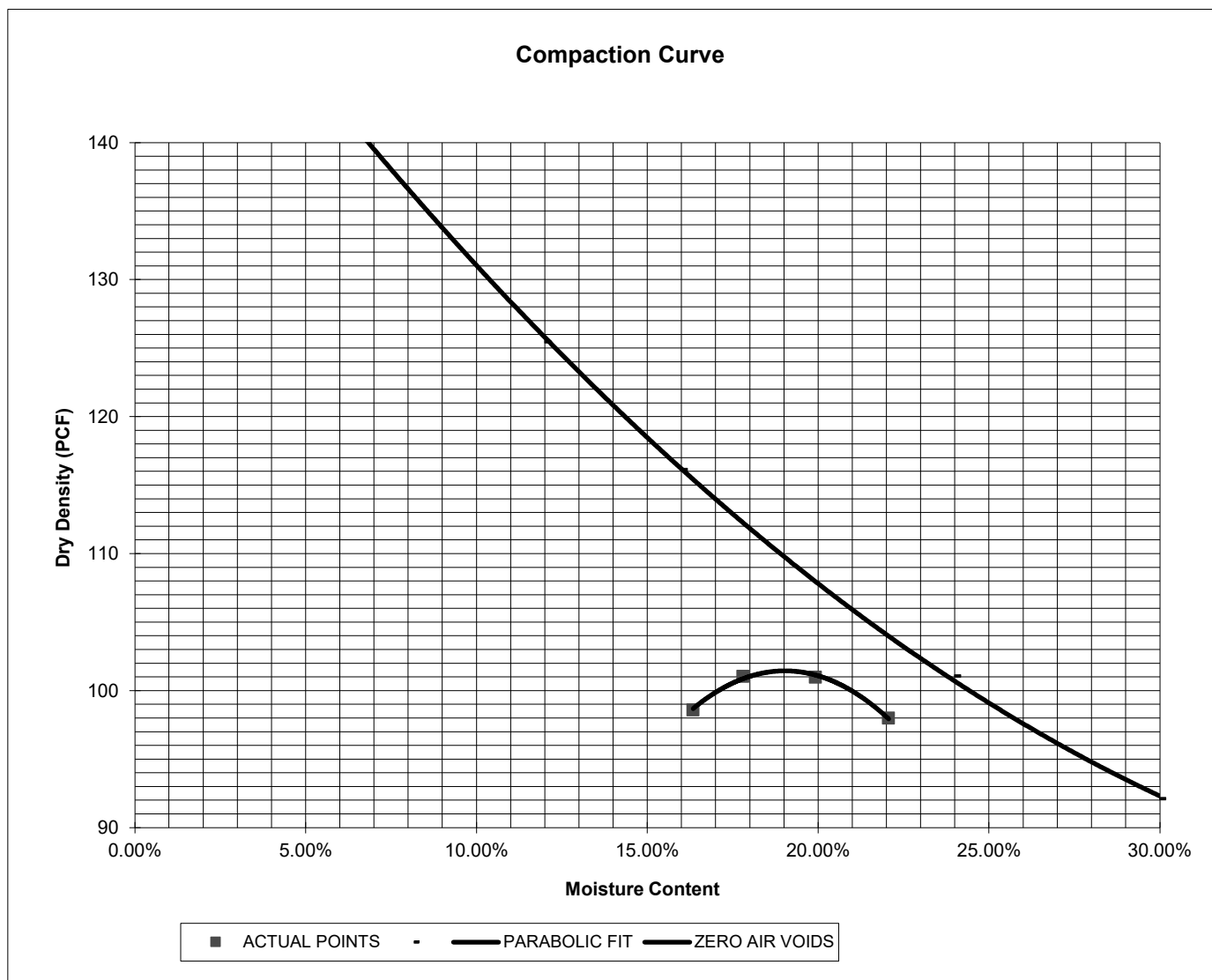
FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

JOB NO.
231192

P4

<u>PROJECT</u>	FLYING HORSE NORTH, FILING NO. 3	<u>CLIENT</u>	FLYING HORSE DEVELOPMENT
<u>SAMPLE LOCATION</u>	BOURBON COURT, STA 27+00	<u>JOB NO.</u>	231192
<u>SOIL DESCRIPTION</u>	CLAY, SANDY, BROWN	<u>DATE</u>	09/17/24

<u>IDENTIFICATION</u>	CL	<u>PROCTOR TEST #</u>	5
<u>TEST DESIGNATION / METHOD</u>	ASTM D-698-A	<u>TEST BY</u>	BL
<u>MAXIMUM DRY DENSITY (PCF)</u>	102.4	<u>OPTIMUM MOISTURE</u>	19.0%



ENTECH
ENGINEERING, INC.

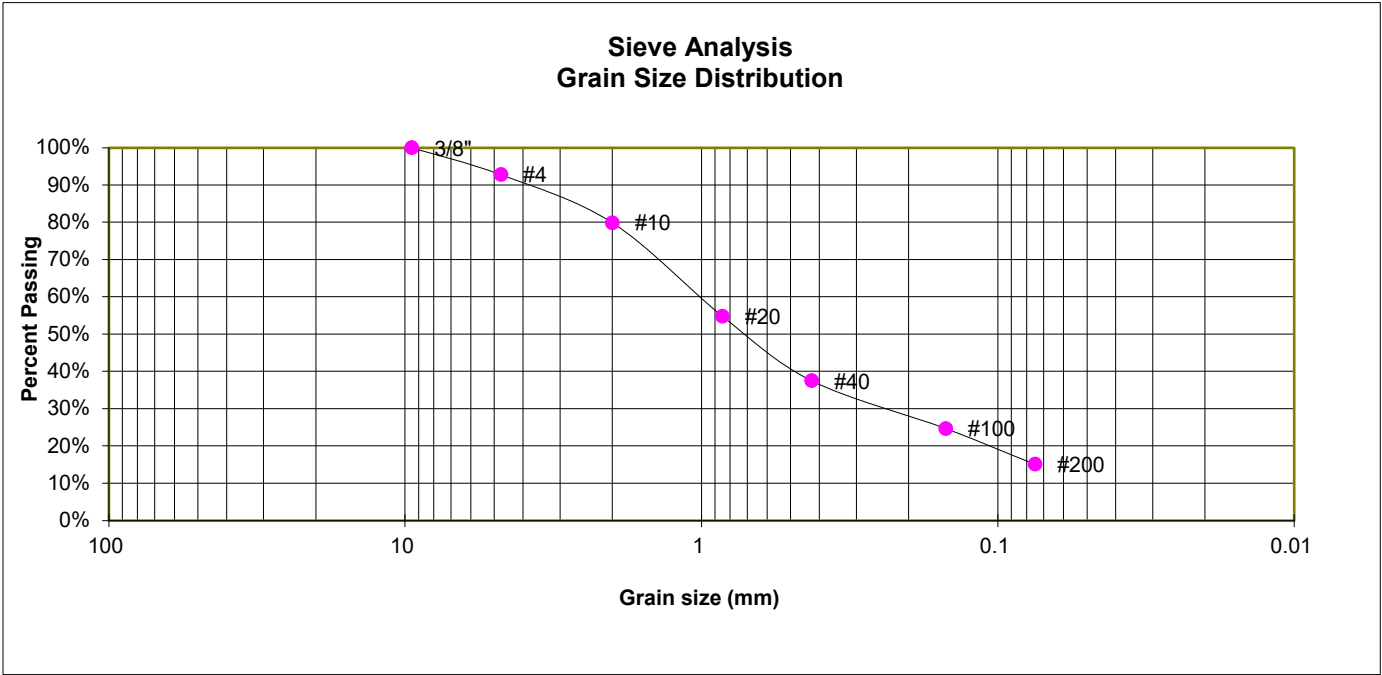
MOISTURE DENSITY RELATION

FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

JOB NO.
231192

P5

<u>LOCATION</u>	BOURBON COURT, STA 27+00	<u>SOIL DESCRIPTION</u>	CLAY, SANDY, BROWN
-----------------	--------------------------	-------------------------	--------------------



<u>U.S. Sieve #</u>	<u>Percent Finer</u>
3"	
1 1/2"	
3/4"	
1/2"	
3/8"	100.0%
4	92.8%
10	79.9%
20	54.8%
40	37.5%
100	24.7%
200	15.1%

<u>Atterberg Limits</u>	
Plastic Limit	19
Liquid Limit	30
Plastic Index	11

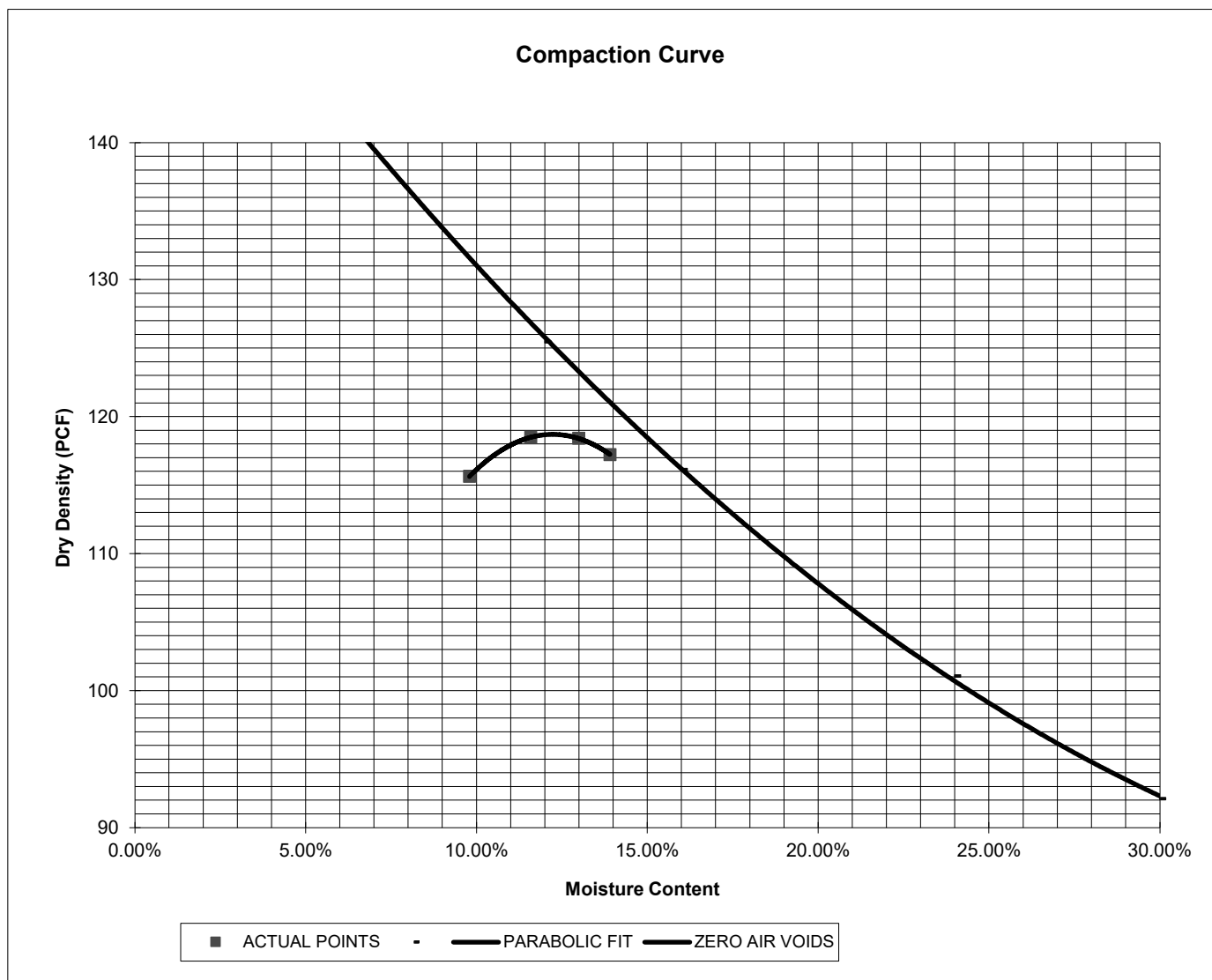


LABORATORY TEST RESULTS
 FLYING HORSE NORTH, FILING NO. 3
 FLYING HORSE DEVELOPMENT

JOB NO.
 231192
P5

<u>PROJECT</u>	FLYING HORSE NORTH, FILING NO. 3	<u>CLIENT</u>	FLYING HORSE DEVELOPMENT
<u>SAMPLE LOCATION</u>	BOURBON COURT, STA 20+00	<u>JOB NO.</u>	231192
<u>SOIL DESCRIPTION</u>	SAND, SILTY, BROWN	<u>DATE</u>	09/18/24

<u>IDENTIFICATION</u>	SM	<u>PROCTOR TEST #</u>	6
<u>TEST DESIGNATION / METHOD</u>	ASTM D-1557-A	<u>TEST BY</u>	BL
<u>MAXIMUM DRY DENSITY (PCF)</u>	116.5	<u>OPTIMUM MOISTURE</u>	12.2%



ENTECH
ENGINEERING, INC.

MOISTURE DENSITY RELATION

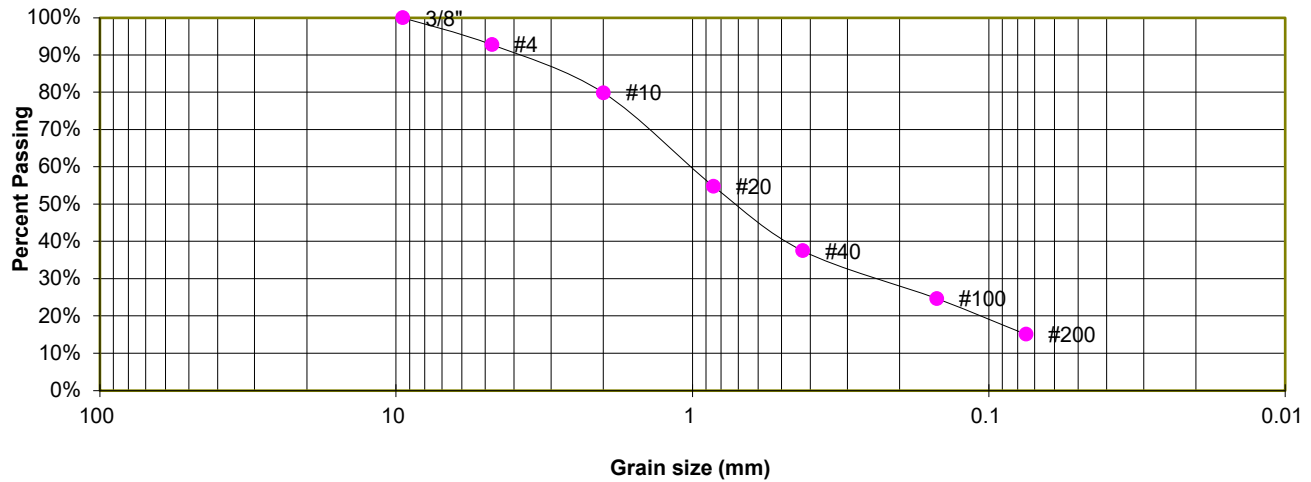
FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

JOB NO.
231192

P6

LOCATION **BOURBON COURT, STA 20+00** **SOIL DESCRIPTION** SAND, SILTY, BROWN

**Sieve Analysis
Grain Size Distribution**



**U.S.
Sieve #**

**Percent
Finer**

3"	
1 1/2"	
3/4"	
1/2"	
3/8"	100.0%
4	92.8%
10	79.9%
20	54.8%
40	37.5%
100	24.7%
200	15.1%

Atterberg Limits

Plastic Limit	38
Liquid Limit	42
Plastic Index	4



ENTECH
ENGINEERING, INC.

LABORATORY TEST RESULTS

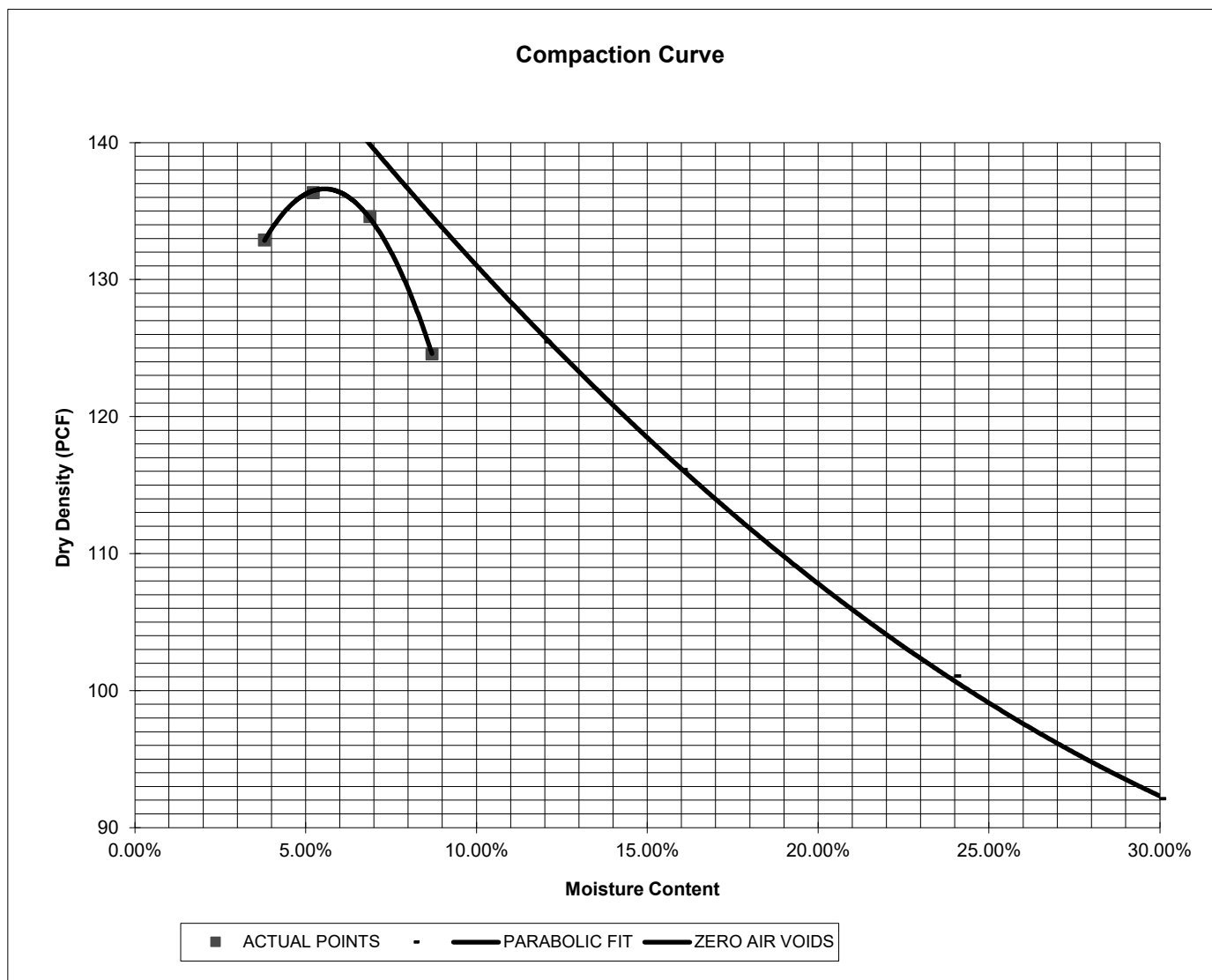
FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

JOB NO.
231192

P6

<u>PROJECT</u>	FLYING HORSE NORTH, FILING NO. 3	<u>CLIENT</u>	FLYING HORSE DEVELOPMENT
<u>SAMPLE LOCATION</u>	IMPORT	<u>JOB NO.</u>	231192
<u>SOIL DESCRIPTION</u>	SAND, WITH SILT, GRAVELLY, BROW	<u>DATE</u>	06/12/25

<u>IDENTIFICATION</u>	SW-SM	<u>PROCTOR TEST #</u>	7
<u>TEST DESIGNATION / METHOD</u>	ASTM D-1557-A	<u>TEST BY</u>	PH
<u>MAXIMUM DRY DENSITY (PCF)</u>	137	<u>OPTIMUM MOISTURE</u>	5.7%



ENTECH
ENGINEERING, INC.

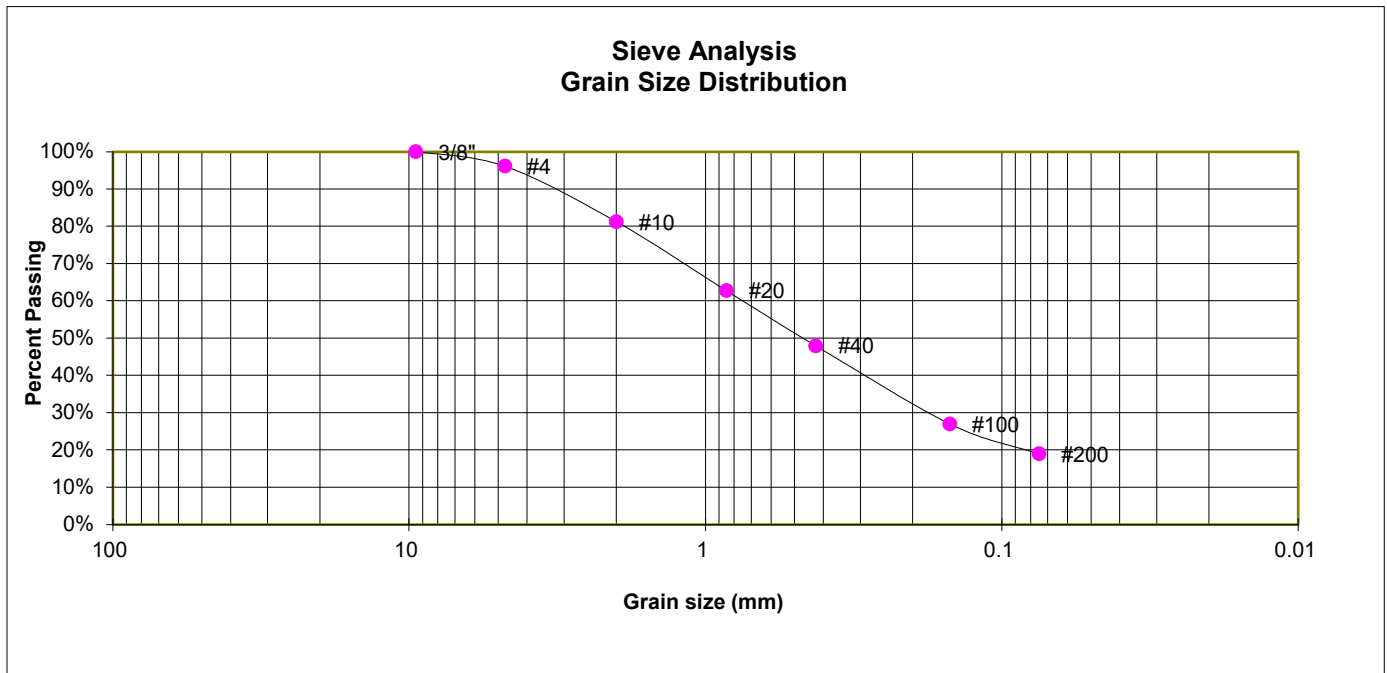
MOISTURE DENSITY RELATION

FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

JOB NO.
231192

P7

<u>LOCATION</u>	IMPORT	<u>SOIL DESCRIPTION</u>	SAND, WITH SILT, GRAVELLY, BROWN
-----------------	--------	-------------------------	----------------------------------



**U.S.
Sieve #**

3"
1 1/2"
3/4"
1/2"
3/8"
4
10
20
40
100
200

**Percent
Finer**

100.0%
96.2%
81.2%
62.8%
48.0%
27.0%
19.0%

Atterberg Limits

Plastic Limit NP
Liquid Limit NV
Plastic Index NP



ENTECH
ENGINEERING, INC.

LABORATORY TEST RESULTS

FLYING HORSE NORTH, FILING NO. 3
FLYING HORSE DEVELOPMENT

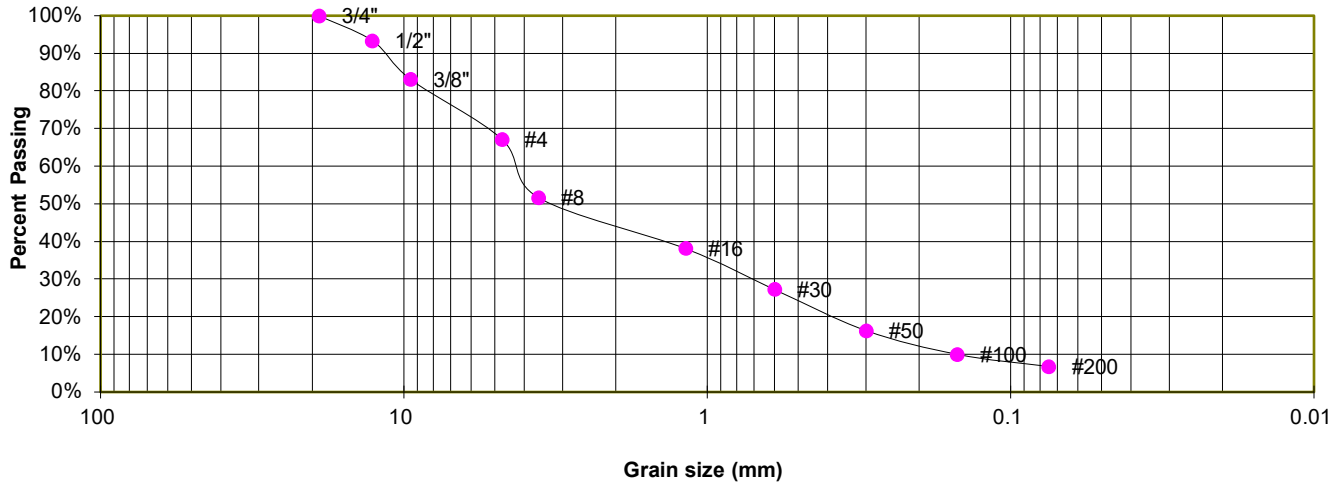
JOB NO.
231192

P7

Appendix B: Asphalt Laboratory Data

LOCATION	QUARTZ CREEK, STA 16+00
MIX DESIGN	SCHMIDT: 2559- 3/4" GR S(75) PG 64-22(2)

Sieve Analysis Grain Size Distribution



GRAIN SIZE ANALYSIS

U.S. Sieve #	Percent Finer	CLASS 2	CLASS 5	CLASS 6	JMF	Control Limits Action Limit	Suspension Limit
3"		95-100					
1 1/2"		100			100		
1"		95-100			100	100	
3/4"	100.0%	100			100	94-100	
1/2"	93.4%				88	82-94	
3/8"	83.1%				79	73-85	
4	67.2%	30-70			65	60-70	
8	51.7%	25-55			49	44-54	
16	38.2%				36		
30	27.3%				24	16-32	
50	16.4%				15		
100	10.0%				9		
200	6.8%	3-15	3-15	3-12	6	4-8	
% Bitumen	5.22%				5.1	4.3-5.9	

SOIL CLASSIFICATION

USCS CLASSIFICATION: SP-SM



LABORATORY TEST RESULTS

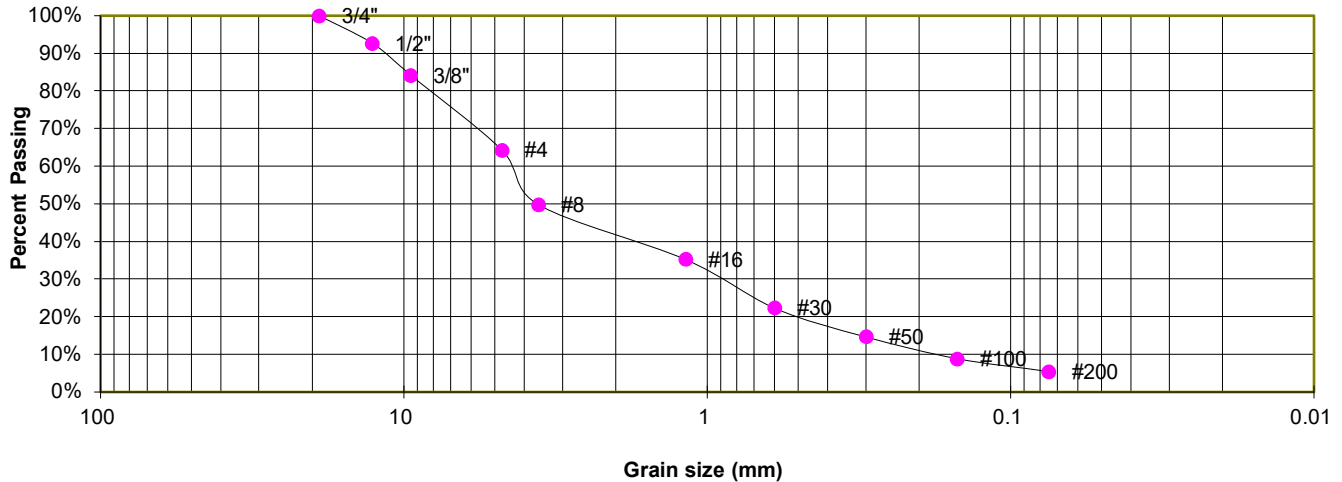
FLYING HORSE N., FILING NO. 3
FLYING HORSE NORTH, LLC

JOB NO.
231192

FIG. 1

LOCATION	BOURBON COURT
MIX DESIGN	SCHMIDT: 2562- 1/2" GR SC(75) PG 64-22(2)

Sieve Analysis Grain Size Distribution



GRAIN SIZE ANALYSIS

U.S. Sieve #	Percent Finer	CLASS 2	CLASS 5	CLASS 6	JMF	Control Limits Action Limit	Suspension Limit
3"		95-100					
1 1/2"		100			100		
1"		95-100			100	100	
3/4"	100.0%	100			100	94-100	
1/2"	92.7%				94	88-100	
3/8"	84.2%				86	80-92	
4	64.3%	30-70			66	61-71	
8	49.9%	25-55			50	45-55	
16	35.3%				36		
30	22.4%				24	16-32	
50	14.7%				15		
100	8.9%				9		
200	5.5%	3-15	3-15	3-12	5.9	3.9-7.9	
% Bitumen	5.21%				5.4	4.6-6.2	

SOIL CLASSIFICATION

USCS CLASSIFICATION: SW-SM



LABORATORY TEST RESULTS

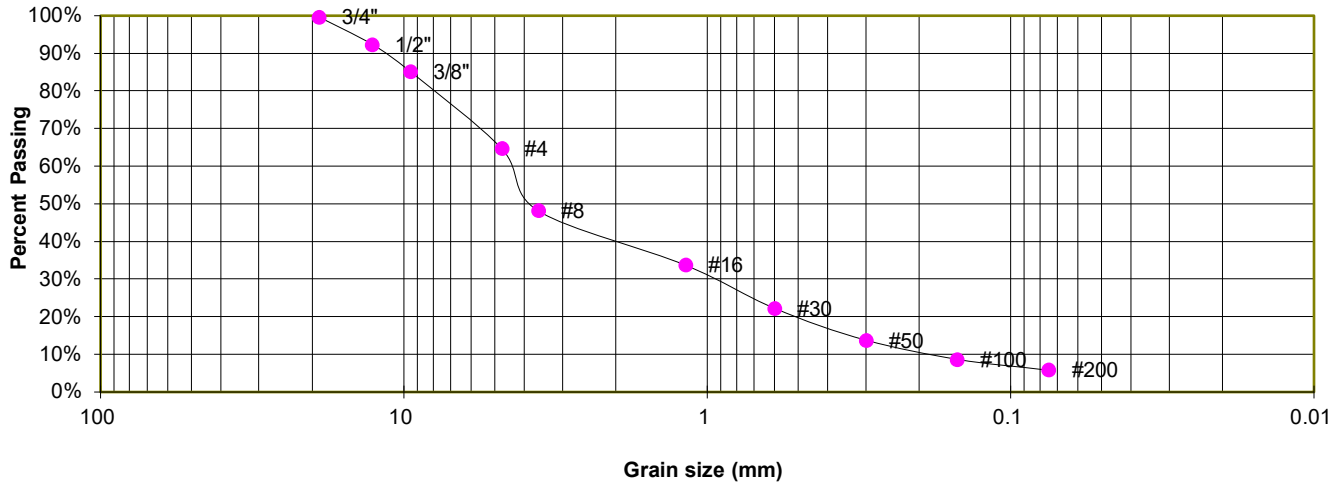
FLYING HORSE N., FILING NO. 3
FLYING HORSE NORTH, LLC

JOB NO.
231192

FIG. 2

LOCATION	ALEN RANCH, STA 74+00
MIX DESIGN	SCHMIDT: 2562

Sieve Analysis Grain Size Distribution



GRAIN SIZE ANALYSIS

U.S. Sieve #	Percent Finer	CLASS 2	CLASS 5	CLASS 6	JMF	Control Limits Action Limit	Suspension Limit
3"		95-100					
1 1/2"		100			100		
1"		95-100			100	100	
3/4"	99.7%	100			100	94-100	
1/2"	92.4%				94	88-100	
3/8"	85.1%				86	80-92	
4	64.7%	30-70			66	61-71	
8	48.2%	25-55			50	45-55	
16	33.8%				36		
30	22.3%				24	16-32	
50	13.8%				15		
100	8.7%				9		
200	5.9%	3-15	3-15	3-12	5.9	3.9-7.9	
% Bitumen	5.36%				5.4	4.6-6.2	

SOIL CLASSIFICATION

USCS CLASSIFICATION: SW-SM



LABORATORY TEST RESULTS

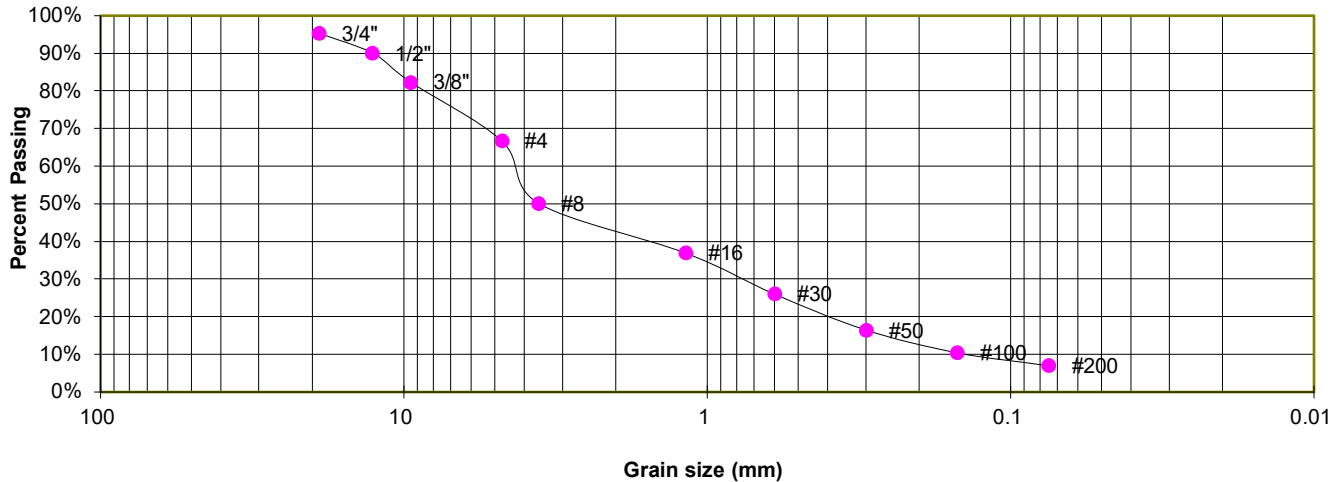
FLYING HORSE N., FILING NO. 3
FLYING HORSE NORTH, LLC

JOB NO.
231192

FIG. 3

LOCATION	ALLEN RANCH, STA 7+100
MIX DESIGN	SCHMIDT: 2559

Sieve Analysis Grain Size Distribution



GRAIN SIZE ANALYSIS

U.S. Sieve #	Percent Finer	CLASS 2	CLASS 5	CLASS 6	JMF	Control Limits Action Limit	Suspension Limit
3"		95-100					
1 1/2"		100			100		
1"		95-100			100	100	
3/4"	95.4%			100	100	94-100	
1/2"	90.1%				88	82-94	
3/8"	82.4%				79	73-85	
4	66.8%		30-70	30-65	65	60-70	
8	50.2%			25-55	49	44-54	
16	37.0%				36		
30	26.1%				24	16-32	
50	16.5%				15		
100	10.5%				9		
200	7.1%	3-15	3-15	3-12	6	4-8	
% Bitumen	5.27%				5.1	4.3-5.9	

SOIL CLASSIFICATION

USCS CLASSIFICATION: SW-SM



LABORATORY TEST RESULTS

FLYING HORSE N., FILING NO. 3
FLYING HORSE NORTH, LLC

JOB NO.
231192

FIG. 4