

Job No. 181479

December 7, 2021

Landhuis Company
212 N. Wahsatch Ave. Ste 301
Colorado Springs, CO

Re: Cement Treated Subgrade Test Results (Set 76)
The Hills at Lorson Ranch – Areas "E" and "G"
El Paso County, Colorado

Dear Landhuis Company:

RMG – Rocky Mountain Group sampled cement treated subgrade (CTS) soils during placement and compaction during construction of the streets in the above referenced subdivision. Our sampling and testing consisted of preparation of six (6) CTS “pucks” for each sample location. Pucks were prepared by compacting sampled CTS materials in the Standard Proctor mold utilizing Standard Proctor compactive effort (ASTM D-698). The pucks were extruded from the mold and moist-cured in the laboratory three (3) days and seven (7) days prior to testing for compressive strength.

The compressive strength for each puck was determined at three (3) days and seven (7) days after placement to verify that the minimum required compressive strength of 125 psi was obtained prior to placement of hot-mix bituminous pavements. The results of our testing are presented in the tables below:

Sample Location	Date Prepared	Puck #	3-Day Compressive Strength	
			Tested Strength, psi	Average 3-Day Compressive Strength, psi
Lorson Blvd. STA 114+00 (Left of median)	11/30/2021	A76	180	180

Sample Location	Date Prepared	Puck #	7-Day Compressive Strength	
			Tested Strength, psi	Average 7-Day Compressive Strength, psi
Lorson Blvd. STA 114+00 (Left of median)	11/30/2021	B76	290	290
		C76	310	
		D76	270	
		E76	320	
		F76	280	

Based upon our test results, the cement treated subgrade that was placed and compacted at the locations tested on November 30, 2021 met the minimum design strength requirements as recommended in *RMG's Pavement Design Report, The Hills at Lorson Ranch – Areas "E" and "G", El Paso County, Colorado, Job No. 181479, last dated November 6, 2021.*

I hope this provides the information you have requested. Should you have questions, please feel free to contact our office.

Cordially,

RMG – Rocky Mountain Group



Cory Ramsey, P.E.
 Geotechnical Project Manager