

FOUNDATION AND SOILS || Engineering, Inc.

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To	Chuck Betters	From	Tom Finley		
Co. Dept.	The Group	Co.	Fdn. Eng.		
Phone #	223-0700	Phone #	663-0138		
Fax #	223-2999	Fax #	663-1660		

May 6, 1994
 Commission No. 1568-03-01-04

CDL Partnership
 2412 Rollingwood Place
 Fort Collins, Colorado 80525

RE: Revised Pavement Recommendations for a portion of the Roadways
 for Dakota Ridge P.U.D. Second Filing, Fort Collins, Colorado

Gentlemen:

Enclosed are the results of our revised pavement recommendations for a portion of the roadways for Dakota Ridge P.U.D. Second Filing. It is our understanding that twelve (12) inches of flyash stabilized subgrade will be located underneath the pavement on a portion of Red Mountain Drive from Lots 62 to 166 and Lots 105 to 116, and a portion of Creekstone Drive from Lots 157 to 166. The stabilization will consist of 10% flyash. It is our understanding that the stabilization is being conducted because the subgrade had not passed a proof-roll test as required by the City of Fort Collins. A previous report conducted by Empire Laboratories, Inc., Job No. 20935097, dated April 21, 1993, for Pinecone P.U.D. was used for the fly-ash recommendation. The soil conditions are very similar at these two (2) locations. A strength coefficient of 0.11 was assigned to the treated subgrade. An initial pavement recommendation report was conducted by our firm (Job No. 1568-03-01-01A, dated September 22, 1993). The following recommendations are made based on these conditions and previous recommendations.

Red Mountain Drive (S & W of Vermont Drive, including intersection)
 (DIN = 30, 18k ESAL = 219,000, A psi = 2.0, Reliability Factor = 85%, Design Structural Number = 2.8)

	<u>Option 1</u>	<u>Option 2</u>	<u>Option 3</u>
HSP	4"	3"	5"
ABC	4"	6"	--
	<u>8"</u>	<u>9"</u>	<u>5"</u>
FTS	12"	12"	12"
	<u>20"</u>	<u>21"</u>	<u>17"</u>
TOTALS			

Not adequate

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Red Mountain Drive (East of Vermont Drive) and Creekstone Drive
(DTN = 10, 18k ESAL = 73,000, Δ psi = 2.0, Reliability Factor = 95%, Design Structural Number = 2.4)

	<u>Option 1</u>	<u>Option 2</u>
HBP	3"	5"
ABC	4"	0"
Subtotal	7"	5"
FTS	12"	12"
TOTALS	19"	17"

HBP = Hot Bituminous Pavement
ABC = Aggregate Base Course
FTS = Flyash Treated Subgrade

Refer to the previous reports for additional recommendations regarding construction of the roadway. If you have any questions, please feel free to call.

Respectfully,

Thomas W. Finley
Thomas W. Finley,
Engineering Geologist

Reviewed by:

Kevin W. Patterson
Kevin W. Patterson, P.E.
FOUNDATION & SOILS ENGINEERING INC.

TWF\jlb