



EARTH ENGINEERING
CONSULTANTS, INC.

May 4, 2005

Bellwether Development; LLC
c/o Double Eagle Construction Services, Inc.
4026 Timberline Road, Suite 120
Fort Collins, CO 80525

Attn: Mr. Gregg Seebohm

Re: Pavement Design Report
Bellwether Farms
Fort Collins, Colorado
EEC Project No. 1064019P

APPROVED
By: Rek Date: 5-9-06
 **City of Fort Collins
Engineering Department**

Mr. Seebohm:

Our subsurface exploration report for the roadway subgrades at Bellwether Farms in Fort Collins, Colorado was submitted to your attention on April 21, 2006. Based on that report, the City of Fort Collins Engineering Department has provided estimated traffic loadings for the development streets. Pavement section recommendations are provided in this report based on the traffic loadings provided by the City of Fort Collins Engineering Department and the subgrade soil tests previously completed by Earth Engineering Consultants, Inc. (EEC).

A Hveem stabilometer R-value of 11 was determined for the rough-graded pavement subgrades. Using the American Association of State Highway and Transportation Officials (AASHTO) correlation that R-value corresponds to a resilient modulus value of 7105. The resilient modulus value of 7105 was used in the pavement evaluation.

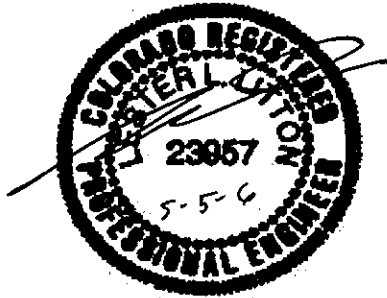
The AASHTO design guidelines for pavement design were used to evaluate recommended pavement sections for this project. Recommended pavement sections based on that evaluation are provided on the attached summary.

EEC Project No. 1064019P
April 4, 2005
Page 2

The asphaltic concrete used in the pavements should be consistent with City of Fort Collins classification for Grading S (75) with PG 58-28 asphalt cement. The aggregate base should be consistent with Colorado Department of Transportation requirements for Class 5 or Class 6 base.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report, or if we can be of further service to you in any other way, please do not hesitate to contact us.

Very truly yours,
Earth Engineering Consultants, Inc.



Lester L. Litton, P.E.
Principal Engineer

cc: Rick Richter – City of Fort Collins (4 copies)

TABLE 1: PAVEMENT SECTION DESIGN	
Design Axle Loads (EDLA = 15)	109,500
Reliability	75%
Deviation	0.44
Subgrade Resilient Modulus	7105
PSI Loss	2.2
Design Structural Number	2.18
Design Pavement Section (Composite)	
Hot Bituminous Pavement (HBP)	4" @ 0.44=1.76
Aggregate Base Course (ABC)	6" @ 0.11= <u>0.66</u>
Pavement Structural No.	2.42

Project: Bellwether
 Fort Collins, Colorado
 Project No: 1064019P
 Date: May 2006

