



**CONSULTANTS WESTERN, INC.**  
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Chester C. Smith, P.E.  
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November 1, 1995

Mr. Ken Scavo  
Cactus Rose Development Group Limited  
2955 West Stuart Street, Unit No. 1  
Fort Collins, Colorado 80526

Re: Trails West P.U.D.  
Asphalt Extraction/Gradation  
Sample No. 1 and 2  
Project No. 20951034

Dear Mr. Scavo:

On October 9, and 10, 1995, our personnel obtained samples of asphaltic concrete and delivered to our laboratory for testing. As requested, we performed quantitative extraction and gradation tests in general accordance with ASTM D2172, Method A, and ASTM D5444; respectively on asphaltic concrete sampled from the above referenced project. The results are attached.

If you have any questions on the data presented, please feel free to contact us at your convenience.

Sincerely,  
TERRACON CONSULTANTS WESTERN, INC.  
Empire Division

Mike L. Walker, CET  
Manager of Construction Services

Enclosures

Copies to: City of Fort Collins - Mr. Gary Martinson

MLW/hmb

Offices of The Terracon Companies, Inc.

Arizona ■ Arkansas ■ Colorado ■ Idaho ■ Illinois ■ Iowa ■ Kansas ■ Minnesota  
Missouri ■ Montana ■ Nebraska ■ Nevada ■ Oklahoma ■ Texas ■ Utah ■ Wyoming

Geotechnical, Environmental and Materials Engineers

QUALITY ENGINEERING SINCE 1965

ASPHALT CONCRETE LABORATORY TEST SUMMARY

TRAILS WEST P.U.D.  
PROJECT NO. 20951034

Hveem No:	Marshall No:	Sample No:	1
Date & Time: 10/9/95 @ 2:40 pm	Lift No: 2nd	Truck No:	111
Ambient Temp: 50°F	Asphalt Temp: 275°F	Ticket No:	
Supplier: Connell Resources			
Contractor: Connell Resources			
Location: Stuart Street			

QUANTITATIVE EXTRACTION, ASTM D 2172 - METHOD "A"

Asphalt Cement Content - 5.2 %

Mix Design Optimum Oil Content - 5.3 %

Specification: ± 0.3 %

GRADATION ANALYSIS OF EXTRACTED AGGREGATE, ASTM D5444

Sieve Size	% Passing	Job Mix Formula April 13, 1995 % Passing	City of Fort Collins SC Type 2 Specifications % Passing
1-1/2"			
1"			
3/4"	100	100	100
1/2"	90	80	---
3/8"	80	68	---
No. 4	(60)	43-53	38-72
No. 8	(44)	30-40	25-58
No. 16	32	25	---
No. 30	22	18	---
No. 50	14	11	---
No. 100	8	7	---
No. 200	5.1	2.8-6.8	3-12

( ) Denotes outside of job mix formula grading band.

ASPHALT CONCRETE LABORATORY TEST SUMMARY

TRAILS WEST P.U.D.  
PROJECT NO. 20951034

Hveem No:	Marshall No:	Sample No: 2
Date & Time: 10/10/95 @ 10:56 am	Lift No: Top	Truck No:
Ambient Temp: °F	Asphalt Temp: 260°F	Ticket No:
Supplier: Connell Resources		
Contractor: Connell Resources		
Location: Neil Street		

QUANTITATIVE EXTRACTION, ASTM D 2172 - METHOD "A"

Asphalt Cement Content - 5.2 %

Mix Design Optimum Oil Content - 5.3 %

Specification: ± 0.3 %

GRADATION ANALYSIS OF EXTRACTED AGGREGATE, ASTM D5444

Sieve Size	% Passing	Job Mix Formula April 13, 1995 % Passing	City of Fort Collins SC Type 2 Specifications % Passing
1-1/2"			
1"			
3/4"	100	100	100
1/2"	83	80	---
3/8"	77	68	---
No. 4	(57)	43-53	38-72
No. 8	(44)	30-40	25-58
No. 16	32	25	---
No. 30	23	18	---
No. 50	14	11	---
No. 100	8	7	---
No. 200	5.3	2.8-6.8	3-12

( ) Denotes outside of job mix formula grading band.