SCOTT STREET - CRESTON ROAD TO VIA RAMONA

RECOMMENDATIONS

Pavement Maintenance Options (Short-Term)

These options are not available for this street because of structural deficiencies and/or pavement cracking condition.

Pavement Rehabilitation Options (Long-Term)

Overlay Options

For option 1, we recommend 4 inch digouts for base failures, placing a 1/2 inch HMA leveling course, pavement fabric and a 1-3/4 inch HMA overlay.

Estimated Cost: $148,000 Estimated Life Expectancy: 10-12 Years

For option 2, we recommend 4 inch digouts for base failures, placing a 1/2 inch HMA leveling course and a 1-3/4 inch RHMA overlay.

Estimated Cost: $149,000 Estimated Life Expectancy: 10-12 Years

Recycle and Mill and Replace Options

These options are not available for this street because of the structural deficiencies and thin pavement layer.

Reconstruction Options

For option 1, we recommend removing the pavement to a depth of 8-1/2 inches and placing 8-1/2 inches of new HMA. The HMA should be placed in 3 lifts.

Estimated Cost: $392,000 Estimated Life Expectancy: 20 Years

For option 2, we recommend removing 4 inches of the existing structure, treating the native soil with a lime plus cement additive to a depth of 8-1/2 inches and placing 4 inches of new HMA in 2 lifts.

Estimated Cost: $211,000 Estimated Life Expectancy: 20 Years

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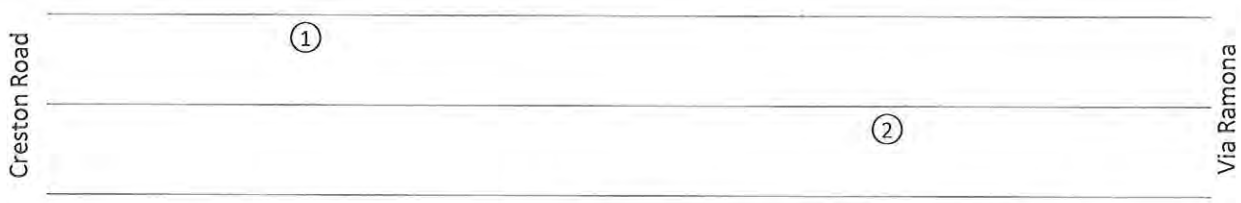

NOTES:
- NTS
- ACTUAL ROAD MAY NOT BE STRAIGHT
- NOT ALL ROADS CONNECTING TO THIS STREET ARE SHOWN
- WIDTH OF ROAD MAY VARY WITHIN THE BOUNDARY SECTION
- ALL LOCATIONS SHOWN ARE APPROXIMATED

Scott Street

[Section of Road ≈ 900ft]

TRAFFIC LAYOUT:
- 2-WAY STREET
- 1 LANE EACH WAY

VISUAL DESCRIPTION FOR THIS SECTION OF ROAD

The pavement exhibits moderate to severe alligator cracking progressing to intermittant base failure. Previous maintance includes a slurry seal. The slurry seal is in poor condition.

CORING LOG

Symbol	Location	Core Data		R-value
1	East of Creston Road 200ft	AC AB	3.50" NO BASE	31
2	East of Creston Road 650ft	AC AB	3.00" 5.50"	-

DEFLECTION ANALYSIS

Lane	Tolerable	TI	80th Percentile	Percent Reduction	HMA Overlay
West Bound	27	7.0	23.32	0.00	0.00 - inches
East Bound	27	7.0	22.14	0.00	0.00 - inches
				Overlay Required by Reflective Cracking	1.75 - inches

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City of Paso Robles

Road: Scott
From: Creston
To: Via Romona
Lane/Line: EB

Survey Date: 03/13/13
Thickness: 0.29
Traffic Index: 7.00
Project Number: 130065

Deflection Data Analysis

Deflection Readings (Equivalent Deflectometer Units)

No. of Tests	Low	Mean	High	Std. Dev.
10	15.15	19.31	25.59	3.38

Road Surface

Thickness	Traffic Index
0.29	7.00

Structural Design

Tolerable	80th Percentile	90th Percentile	% Reduction	GE Deficient
27.00	22.14	23.63	0.00	0.00

HMA Overlay
0.00

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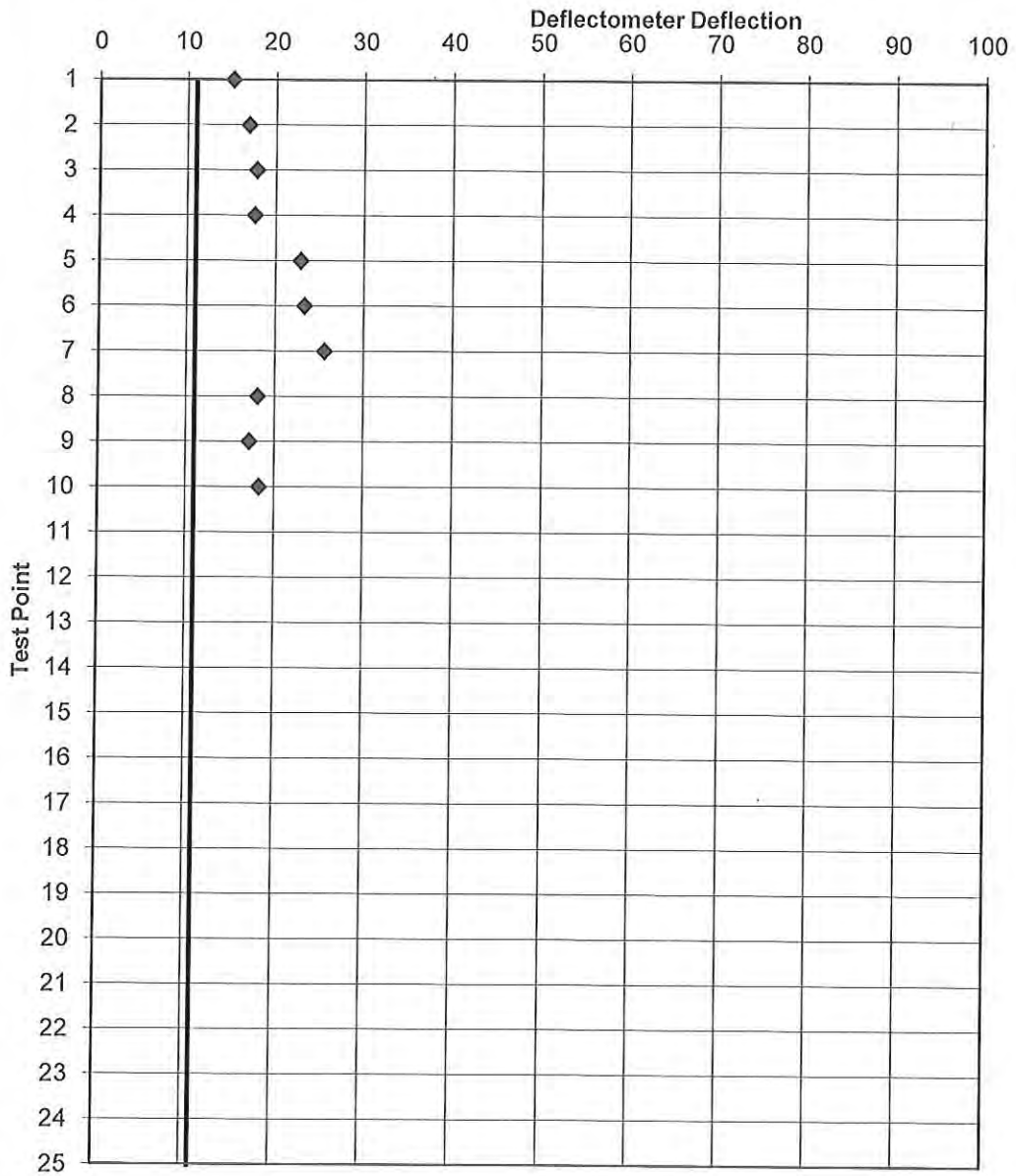

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Date: 3/27/2013

Client: City of Paso Robles
Road: Scott
From: Creston
To: Via Romona
Lane/Line: EB

Interval: 90
Survey Date: 3/13/13
Thickness: 0.29
Traffic Index: 7.00
Project Number: 130065

Test Points	Dynaflect	Conditions	Comments	Deflection	Exclude
1	0.69			15.154	
2	0.77			16.969	
3	0.81			17.876	
4	0.80			17.649	
5	1.03			22.867	
6	1.05			23.321	
7	1.15		Before (COP)	25.590	
8	0.82			18.103	
9	0.78			17.196	
10	0.83			18.330	

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03/27/13

City of Paso Robles

Road: Scott
From: Via Ramona
To: Creston
Lane/Line: WB

Survey Date: 03/13/13
Thickness: 0.29
Traffic Index: 7.00
Project Number: 130065

Deflection Data Analysis

Deflection Readings (Equivalent Deflectometer Units)

No. of Tests	Low	Mean	High	Std. Dev.
10	13.34	20.78	23.09	3.02

Road Surface

Thickness	Traffic Index
0.29	7.00

Structural Design

Tolerable	80th Percentile	90th Percentile	% Reduction	GE Deficient
27.00	23.32	24.65	0.00	0.00

HMA Overlay
0.00

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City of Paso Robles

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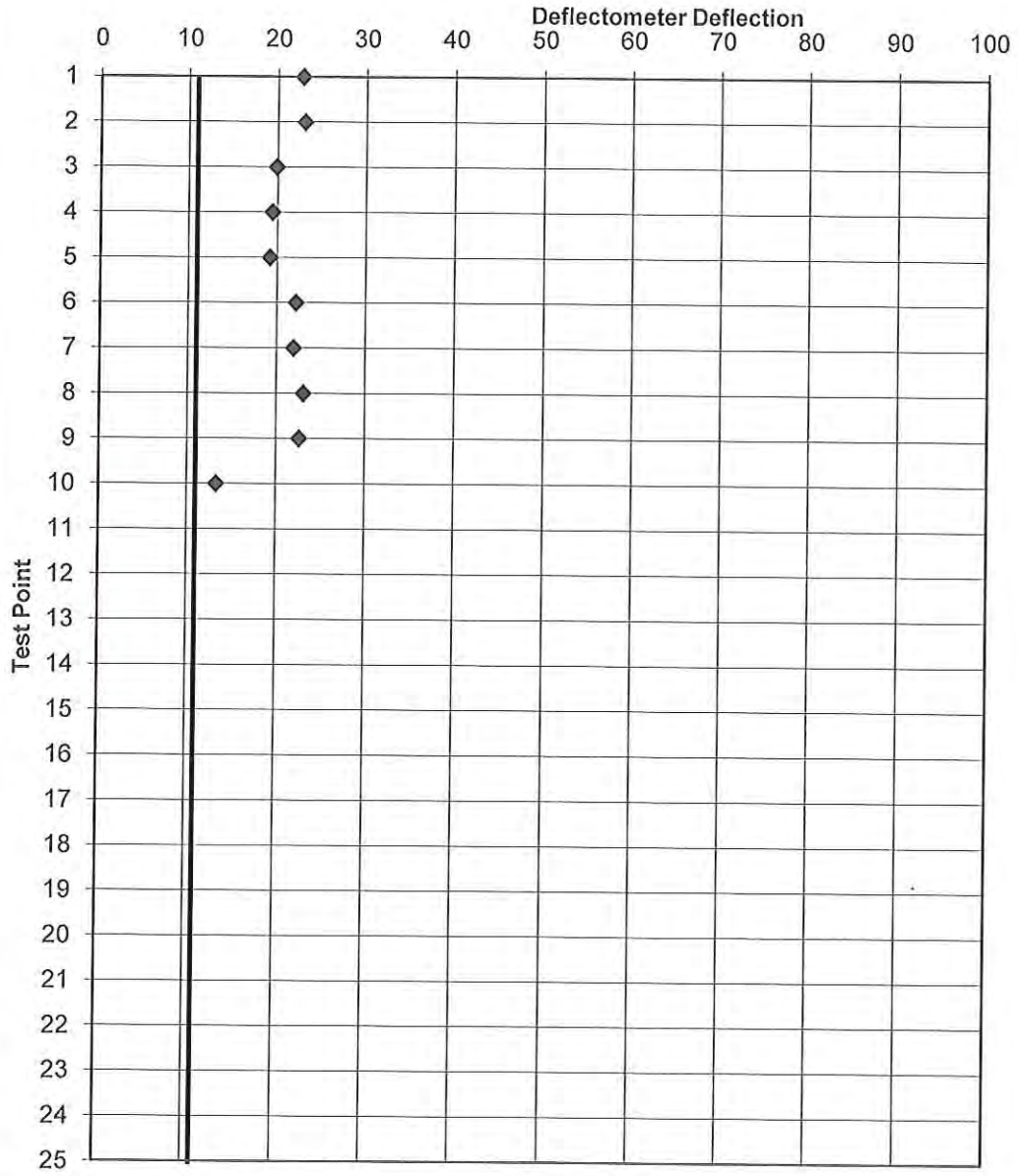

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Date: 3/27/2013

Client: City of Paso Robles
Road: Scott
From: Via Ramona
To: Creston
Lane/Line: WB

Interval: 90
Survey Date: 3/13/13
Thickness: 0.29
Traffic Index: 7.00
Project Number: 130065

Test Points	Dynaflect	Conditions	Comments	Deflection	Exclude
1	1.03			22.867	
2	1.04			23.094	
3	0.90			19.918	
4	0.88			19.464	
5	0.87			19.237	
6	1.00			22.187	
7	0.99			21.960	
8	1.04			23.094	
9	1.02			22.640	
10	0.61			13.339	

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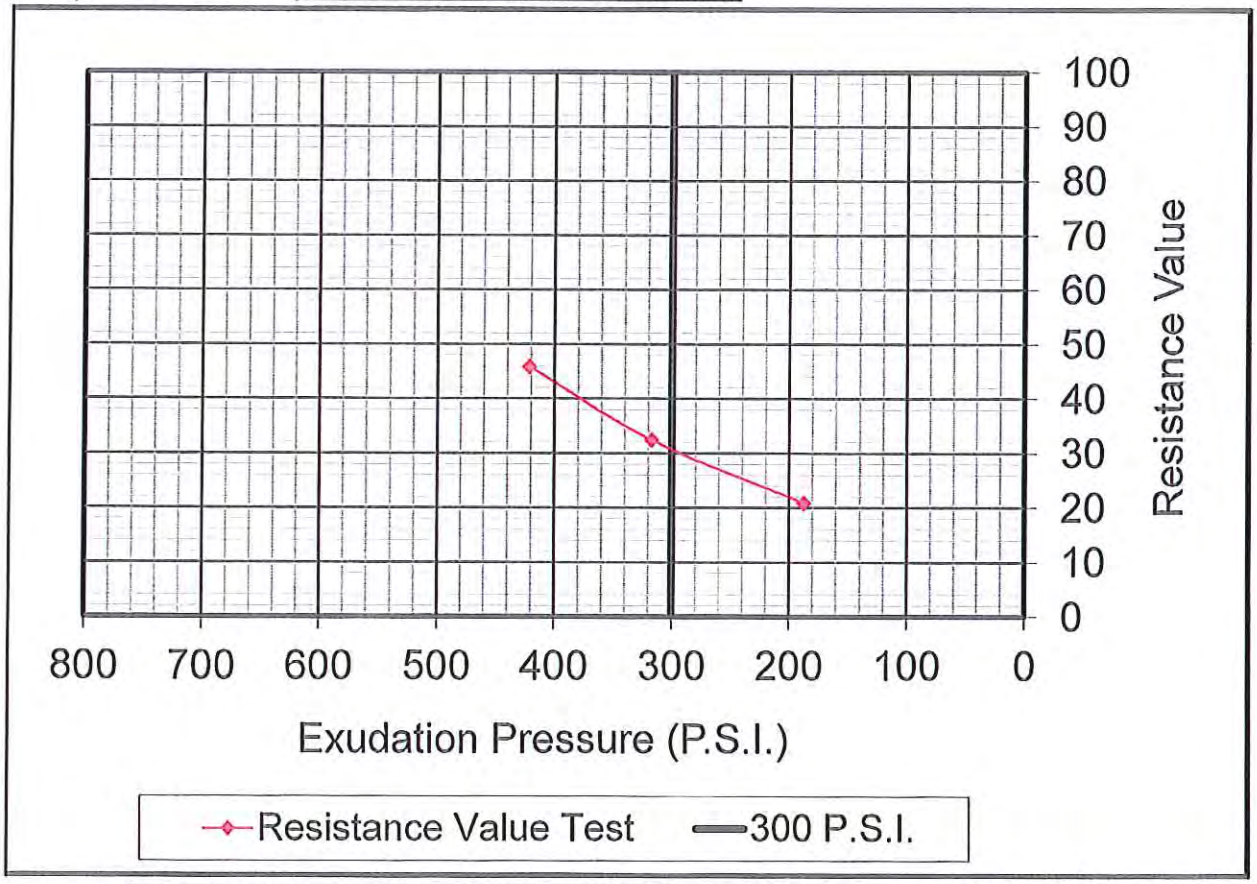
RESISTANCE (R) VALUE TEST
ASTM D 2844

Laboratory No.: L130083X
Project No.: 130065
Sample Date: March 12, 2013
Report Date: March 25, 2013
Client: City of Paso Robles
Project Name: City of Paso Robles 2013 Pavement Analysis
Sample Description: Brown Silty Clay with Sand
Sample Location: Scott Street - 200' East of Creston Road



Specimen No.	1	2	3
Moisture Content (%)	15.3	13.3	14.3
Dry Density (PCF)	116.0	118.0	117.5
Resistance Value (R)	21	46	32
Exudation Pressure (PSI)	188	422	318
Expansion Pressure	0	208	104

RESISTANCE VALUE AT 300 P.S.I. 31

AAP® AASHTO R18

Reviewed By: Craig Long
Craig W. Long
Laboratory Operations Manager

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SCOTT STREET – CRESTON ROAD TO VIA RAMONA
Creston Road looking Eastbound

SCOTT STREET – CRESTON ROAD TO VIA RAMONA
Via Ramona looking Westbound