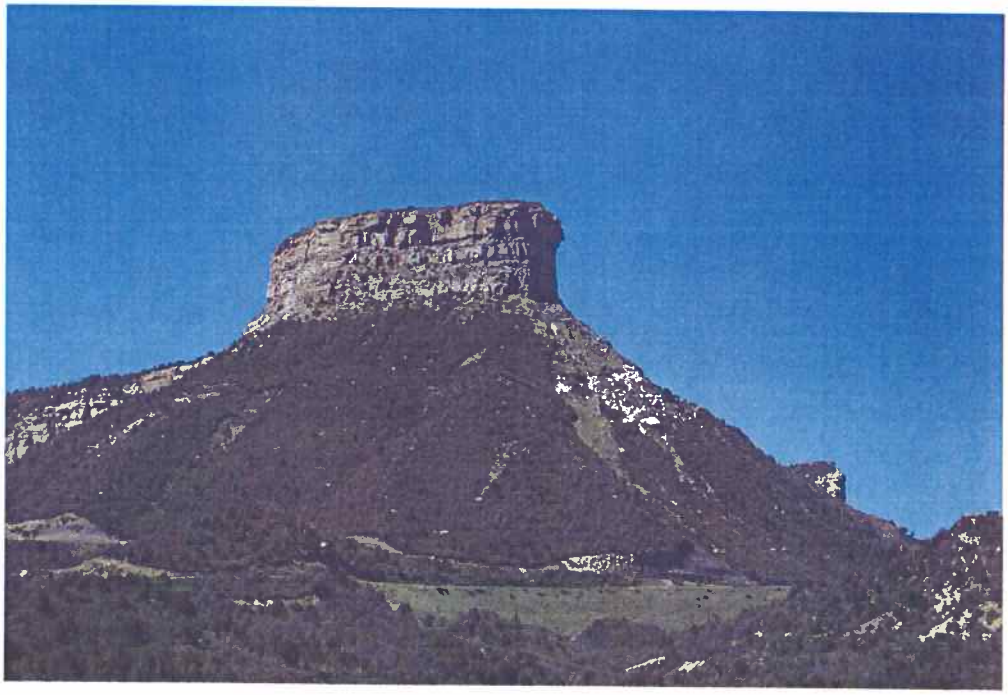
MESA VERDE NATIONAL PARK

CO PRA MEVE 10(9) MAIN ENTRANCE ROAD

PAVEMENT REPORT

Report # 08-04

Pavement Section
August 2008



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SIGNATURE SHEET

Report prepared by: _____
Steve Deppmeier, Pavement Engineer

Report reviewed by: _____
Michael Voth, Division Pavement Engineer

Approved for distribution by: _____
Michael Voth, Division Pavement Engineer

8-21-08
Date

Distribution
Project Management
Project Development (3)
Acquisition and Contracting
Construction
CFLHD, Central Files
CFLHD, Report Room
Pavements (2)
Materials

I. INTRODUCTION

This report incorporates information and data from previous reports of investigations for pavements and subgrade soils in Mesa Verde National Park. The supporting information is in the attached appendices. In addition, during the week of June 14th, 2004 a new pavement and subgrade soil investigation was conducted from the beginning to the end of the Main Entrance Road, and included Cliff Palace Loop and Mesa Top Loop. Three borings were also drilled for future roadwork at the proposed cultural center. The Main Entrance Road is also known as Chapin Mesa Road.

Pavement Report 07-01 issued in January 2007 provided pavement structural section recommendations that were incorporated in the CO PRA MEVE 10(8) & 200(1) CHAPIN MESA ROAD & WETHERILL MESA ROAD project. That project began at MP 10.53 (Sta 556+22) and proceeded to MP 20.03 (Sta 1058+00), end of Main Entrance Road. MEVE 10(8) & 200(1) was completed in the fall 2007.

On September 24 & 25, 2002 a Falling Weight Deflectometer (FWD) was used to determine remaining service life of the roadway in particular to construction loading from CO PRA MEVE 10(7) MESA VERDE MAIN ENTRANCE ROAD. That project was designed to remove 100,000 m^3 of material via semi-tractor trailers out of the park. That quantity was later designated as fill within the park and no material was hauled out.

This report documents road conditions of the Main Entrance Road beginning at MP 0.0 (Sta 3+15), the intersection with US 160, and proceeds to MP 10.53 (Sta 556+22). The investigation used a truck mounted drill rig to auger through the existing pavement and to continue into the subgrade from 1 foot to 5 feet in depth. Pavement thicknesses were recorded, as were the soil description. Samples were labeled from C-1 to C-87. Sampling was generally every 0.25 miles on the main entrance road. Mileposts were recorded for sample locations and then converted to stationing. Stationing is thus approximate as the mileposts were recorded from the vehicle odometer.

II. EXISTING PAVEMENT

The following pavement condition was based on conditions as existed during the investigation in June 2004. Construction of CO PRA MEVE 10(7) was in progress at the time and various areas of construction activity were skipped. Since then, NPS maintenance has performed asphalt patching in several locations. In addition the CO PRA MEVE 10(8) & 200(1) placed 8400 tons of spot overlays to hold the road together during its construction traffic. Therefore approximately half of the surface area of CO PRA MEVE 10(9) has been overlaid from skin patches to 2 inch depths, affecting the recorded pavement thicknesses from June 2004.

The existing roadway is approximately 23 years old, being last rehabilitated in 1984 with repairs conducted almost immediately in slide prone areas. The existing distress consists

of moderate to high severity transverse cracking, longitudinal cracking, and block cracking; and these conditions are throughout the project length. Rutting was noted in only a few isolated locations.

Existing pavement was measured at ¼ mile increments, so irregularities could exist between measurements. Good gravel base containing some sand and silt was typical to a depth of 12 inches, the bottom of the borings.

TABLE 1: Pavement Conditions for Main Entrance Road (in June, 2004)

Milepost	Pavement Thickness (inches)	Road Width (feet)	Pavement Conditions
0.0 To 2.3	5.5 average. Ranged 4.0 to 8.0	28.0	High severity transverse, longitudinal, and block cracking. <1/2 inch rut at MP 0.25 & 1.25.
2.3 To 3.25	Construction		CO PRA MEVE 10(7) Mesa Verde Main Entrance Road – no investigation within the construction zone.
3.25 To 5.0	5.25 average Ranged 5.0 to 8.0	28.2	High severity wheelline, longitudinal, and block cracking. Intermittent crack sealing performed.
5.0 To 5.75	Tunnel		No investigation at the tunnel.
5.75 To 7.25	5.5 average. Ranged 5.0 to 9.0.	27.9	High severity transverse, longitudinal, and block cracking.
7.25 To 8.75	7.0 average. Ranged 6.5 to 7.8.	24.5	Slide and settlement area. >1 inch rut at MP 7.5 and >2 inch rut at MP 8.35.
8.75 To 10.4	4.75 average Ranged 4.5 to 5.5.	23.2	Surface seal and thin overlays. Moderate severity transverse, longitudinal, and block cracking reflecting through.

Typical pavement distresses were recorded and photos were taken to further document the condition of the pavement. Laboratory test results and photographs of the boring locations are provided in the appendices in the back of this report.

CO PRA MEVE 10(9) MAIN ENTRANCE ROAD

PAVEMENT & BASE COURSE THICKNESSES (from June 2004)

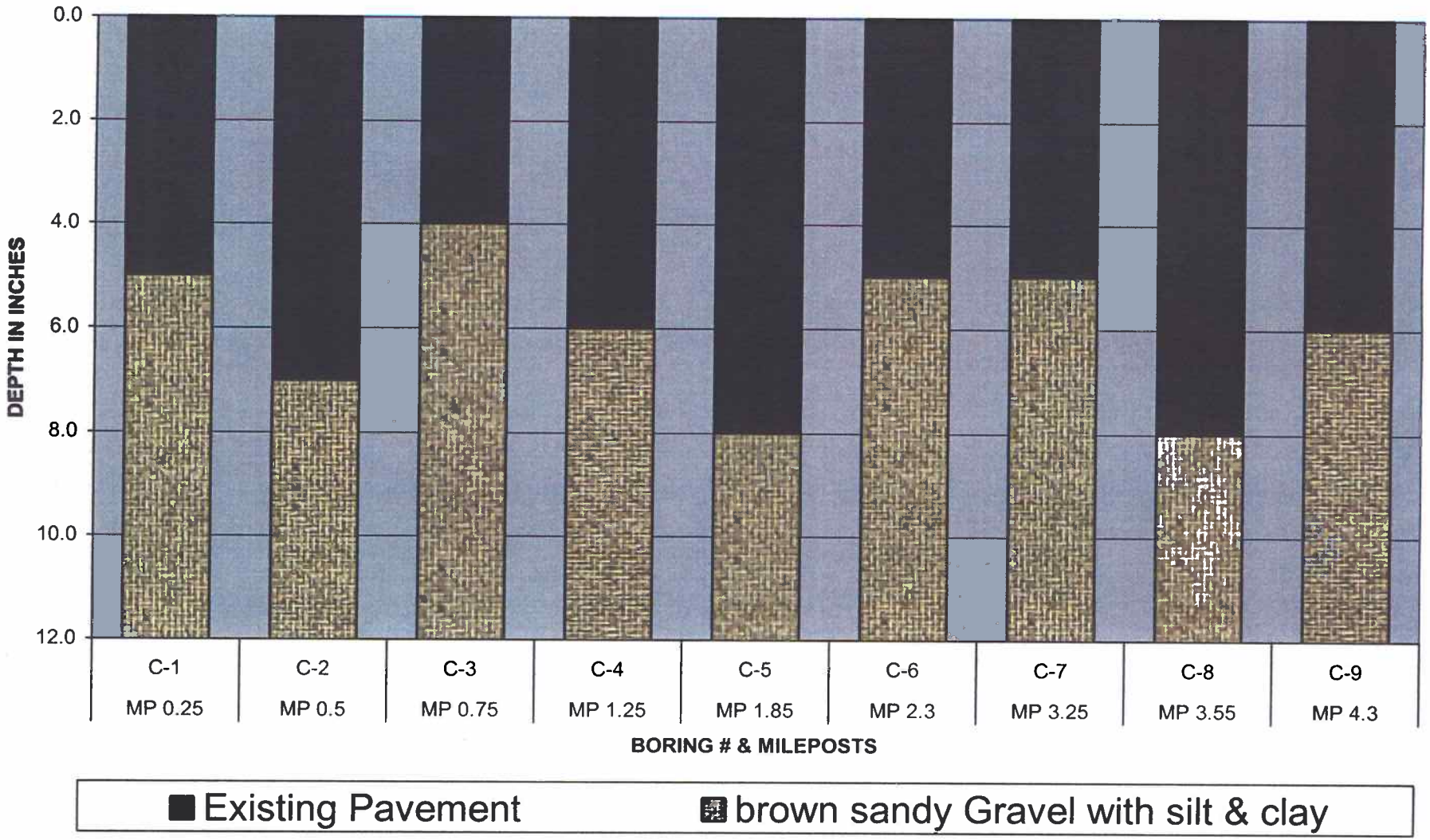


Chart 1

PAVEMENT & BASE COURSE THICKNESSES (from June 2004)

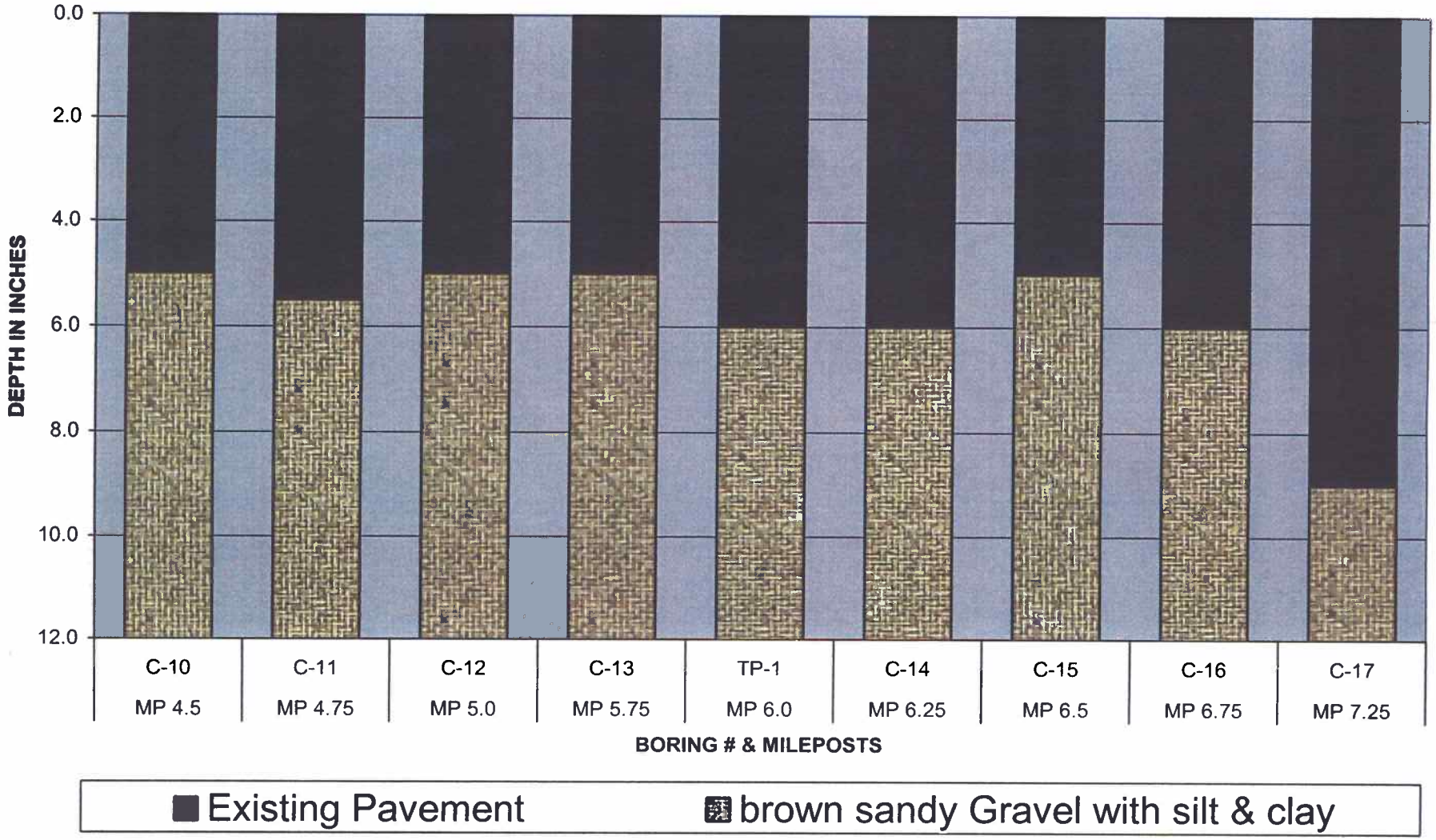


Chart 2

PAVEMENT & BASE COURSE THICKNESSES (from June 2004)

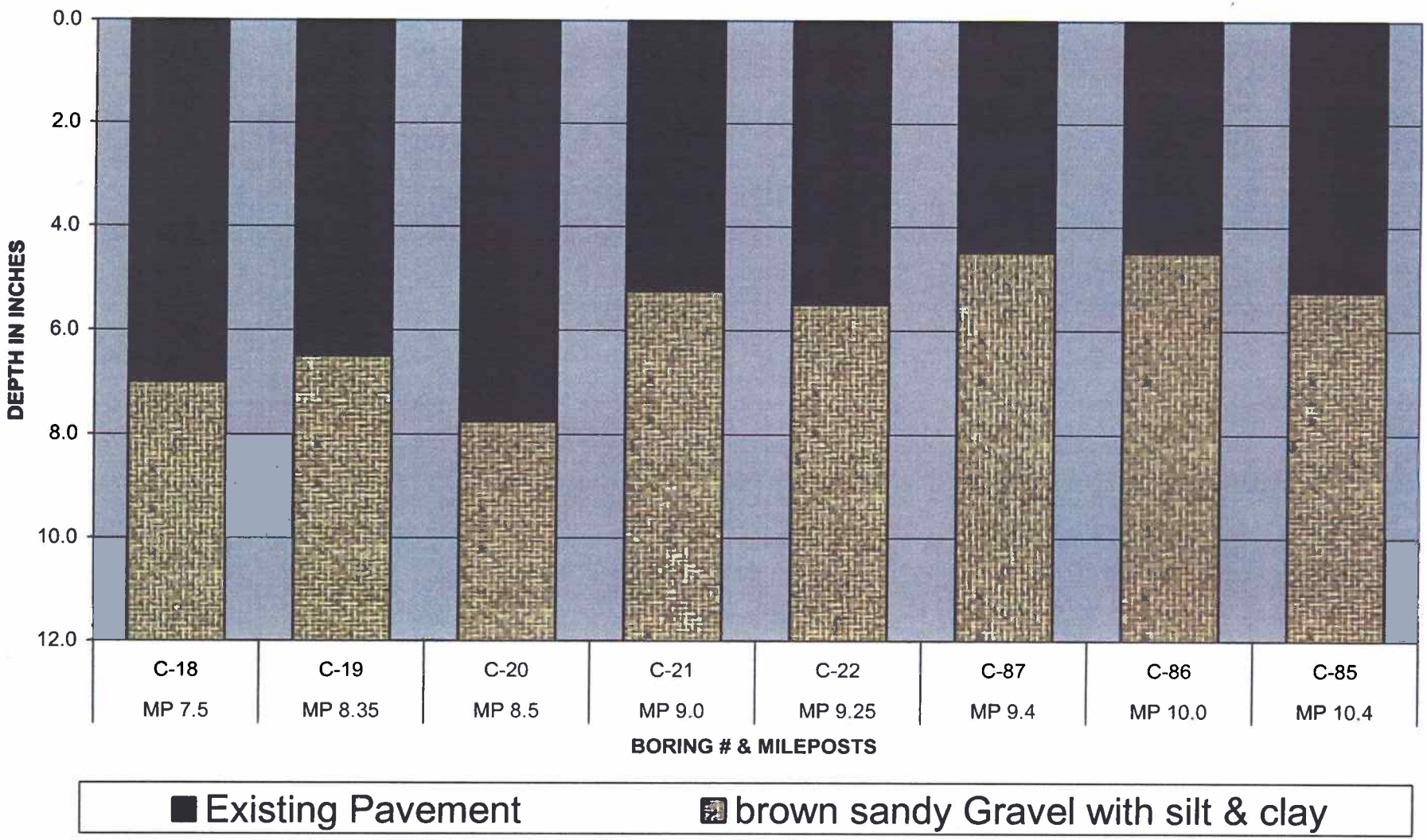


Chart 3

III. TEST RESULTS

The following soil information was collected from previous investigations and reports, the Roadway Distress Area and Soil Survey Investigation, October 1982; the Mesa Verde National Park Mancos Overlook to Navajo Hill, September 1984; and Nondestructive Deflection Testing and Pavement Evaluation Mesa Verde National Park, December 26, 2002.

For the Main Entrance Road the subgrade soils were classified per AASHTO M 145 as A-7-6 to A-2-4 with A-6 the most common classification. The following table presents the range of R-Values, plasticity index (PI), liquid limit (LL), and percent passing the #4 and #200 sieves. MP 10.4 data is from the June 2004 investigation. More laboratory results are in Appendix B.

TABLE 2: Chapin Mesa Subgrade Summary

MP	AASHTO M 145	R-Value	PI	LL	- #4	- #200
0.4	A-6	10	13	33	98	78.1
0.8	A-6	13	14	34	97	74.4
1.2	A-4	9	15	35	99	90.6
1.6	A-6	7	17	35	98	87.4
2.0	A-4	22	9	25	89	49.6
2.4	A-6	10	16	32	60	38.4
2.8	A-2-4	26	11	27	49	25.7
3.5	A-4	23	7	26	95	46.0
4.2	A-4	26	7	26	79	43.4
5.75	A-6	27	13	31	95	68.7
6.9	A-2-4	78	NP	NV	78	28.9
7.25	A-4	75	2	23	91	37.6
7.9	A-6	12	17	35	67	43.0
8.25	A-7-6	<5	22	41	95	72.1
8.75	A-2-4	73	NP	NV	71	23.6
9.15	A-7-6	<5	22	44	91	70.0
9.95	A-6	16	13	30	96	60.4
10.35	A-6	8	18	34	92	66.0
10.4	A-6	8	12	27	88	56.0

A Dynamic Cone Penetrometer (DCP) test was also performed at MP 9.4. The DCP value was 11.1 mm/blow. This corresponded to an in-situ California Bearing Ratio of 18. See Appendix H for field data summary.

IV. FALLING WEIGHT DEFLECTOMETER (FWD)

The FWD testing performed in September 2002 was the optimal time for subgrade strengths after the hot summer. The subgrade should have been at its lowest moisture content and thus its highest strength. The average backcalculated resilient modulus was 6600 psi for this project area (with the 0.33 correction factor applied). The FWD report is in Appendix F. The report could be used in conjunction with the log summary to monitor potential soft areas for additional inspection.

V. PAVEMENT RECOMMENDATIONS AND DISCUSSION

Traffic counts were obtained from the December 2003 Traffic Data Package from EFLHD by ERES Consultants. Chapin Mesa Road had an AADT of 917 for the year 2003. The year 1991 had an AADT of 2171. Caution was noted for visitation numbers as Mesa Verde over the last 7 years has been closed numerous times due to wild fires.

Visitation numbers in 1994 were 699,644. These 1994 numbers, with the corresponding AADT of 1602 was used for calculating the pavement design section. 1994 was the second highest visitor number, roughly 94% of the peak visitor number in 1992. 1600 was set as the initial vehicle count for the construction year 2007, and then a 1% growth rate was applied for the 20-year design period.

Trucks were reported to be 0.5% of vehicles counted, and only those of Class 3 & 5. No heavy-duty trucks from Classes 6 through 13 were reported. In order to take in account the NPS garbage trucks and other maintenance vehicles, the 0.5% trucks were calculated as Class 7 with 1.0 truck factor. Light trucks and RV's have a truck factor of 0.5, and this was used for 2.5% of the AADT. Buses were 1% of the AADT and had a 0.88 truck factor. Passenger vehicle, Class 2 made up the remaining 96% with an insignificant truck factor of 0.0004. Trucks were calculated as being 60% in the design direction as recommended by AASHTO. The total calculated traffic loading was 204,907 equivalent single axle loads (ESAL's).

Main Entrance Road

A soil resilient modulus of 6600 psi was used for the pavement design. This value was based on laboratory testing, FWD testing, and field observations. The average existing pavement depth was 5.75 inches based on the June 2004 investigation depths. Base course like material extended generally to a depth of 12 inches. The required structural number (SN) is 2.56. The following is the recommended pavement structural sections:

Option 1: Recommended Pavement Structural Section
Mill 2 inches existing pavement
2.5 inches HACP*
6 inches FDR – Foamed Asphalt
SN = 2.72
Grade Raise = 0.5 inches
*This is the minimum thickness required to meet the SN. The CFT may decide to increase the thickness to 3 inches to allow for 2-lift construction and a smoother riding surface. However, this will result in an increase in project cost.

Option 2
Mill 3 inches
4 inches HACP
6 inches FDR – Pulverize
SN = 2.60
Grade Raise = 1.0 inches

Pavement Materials

- The HACP should be Item 40101-0600 Supepave, ½ inch nominal maximum size aggregate, with a Type II smoothness level. The unit weight can be estimated at 145 lb/ft^3.
- Hydrated lime (Type III), at 1%, will be the antistrip additive.
- The asphalt cement should be PG 64-28. Quantity can be estimated at 6% by weight of mix.
- A 3 inch depth or greater of HACP shall be placed in two lifts.
- Tack coat at an application rate of 0.10 gal/yd^2 is required between lifts and should either be a CSS-1, CSS-1h, SS-1, or SS-1h emulsion.
- For the foamed asphalt stabilized base course, the asphalt binder should be AC-10 (or equivalent PG grade). The preliminary mix design indicated that 3% asphalt binder by weight of reclaimed mix and either 5% Class C Fly Ash or 2% cement are the optimal applications rates. See SCR 418 for the specific mix requirements and Appendix G for preliminary mix design information.
- A fog seal, Item 40920-1000 should be included in the contract. For determining quantities use an application rate of 0.10 gal/yd^2. The emulsion type can be a CSS-1, CSS-1h, SS-1, or SS-1h.
- A prime coat, Item 41101-0000 should be applied on the pulverized base material as soon as possible to aid in shedding rainfall. For determining quantities use an application rate of 0.33 gal/yd^2. An item for blotter material, Item 41105-0000 should be included at 14.75 lb/yd^2.

Foamed Asphalt

Two test pit samples were submitted to Earth Engineering Consultants, Inc. (EEC) of Windsor, CO for performing the mix designs on the foamed asphalt stabilized base course. The mix design report, dated 1-9-07 is in Appendix N. See also the SCR 418 Foamed Asphalt Stabilized Base Course.

Test Pit 1 sampled at MP 6.0 and Test Pit 2 sampled at MP 14.9. Although MP 14.9 is not in the current project, the characteristics of the existing material match those of the project.

The mix design report determined the best application rate of the AC-10 to be 3% of reclaimed aggregate material dry weight and the mineral additive to be either 5% Class C Fly Ash or 2% cement by dry weight of the reclaimed aggregate material.

Drainage, Subexcavation, and other Issues

Due to the clayey subgrade beneath Main Entrance Road, it will be imperative that a prime seal be placed immediately onto the pulverized base material once that process is completed. The prime seal will aid, along with proper superelevations in shedding rain events. If weather is allowed to penetrate through unsealed base material, the subgrade will deteriorate and subcavation may become necessary.

If subexcavation becomes necessary, Table 5 below can be used as a guideline. The table is from Chapter 11 of the Project Development Design Manual (PDDM).

TABLE 5: Subexcavation Guidelines

Plasticity Index (PI)	Liquid Limit (LL)	Depth of Subexcavation *
15 – 25	< 50	2 feet
25 – 35	50 – 60	2 – 4 feet
> 35	> 60	4 – 6 feet

* Traffic volume, project significance, and results of AASHTO T 258 and T 92 should influence subexcavation depth.

APPENDICES

A – Location Map

B – Laboratory Test Results

C – Photographs

D – Pavement Design Calculations

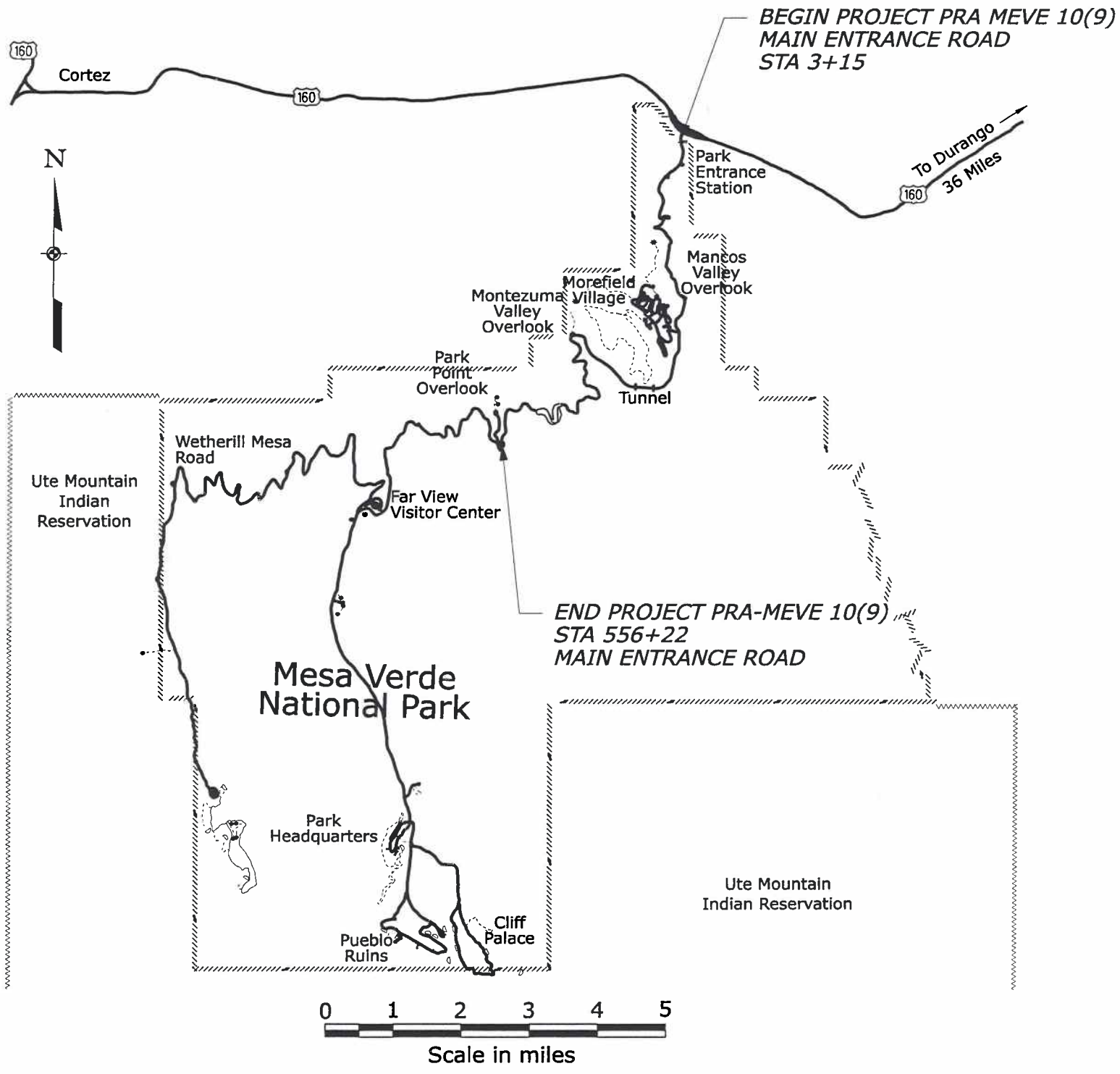
E – Field Data Summary

F – FWD Report – Ground Engineering Consultants, Inc.

G – Foamed Asphalt Mix Design – Earth Engineering Consultants, Inc.

APPENDIX A

LOCATION MAP


BEGIN PROJECT PRA MEVE 10(9)
MAIN ENTRANCE ROAD
STA 3+15
160
Cortez
160
N
Park
Entrance
Station
To Durango
36 Miles
160
Mancos
Valley
Overlook
Morefield
Village
Montezuma
Valley
Overlook
Park
Point
Overlook
Tunnel
Wetherill Mesa
Road
Ute Mountain
Indian
Reservation
Far View
Visitor Center
END PROJECT PRA-MEVE 10(9)
STA 556+22
MAIN ENTRANCE ROAD
Mesa Verde
National Park
Park
Headquarters
Ute Mountain
Indian Reservation
Cliff
Palace
Pueblo
Ruins
0 1 2 3 4 5
Scale in miles

APPENDIX B

LABORATORY TEST RESULTS

CO PRA MEVE 10(9) MAIN ENTRANCE ROAD

YEAR	SAMPLE	MP	CLASS	PI	Passing #4	Passing #200	R
1982	B-1	0.4	A-6	13	98	78.1	10
1982	B-2	0.8	A-6	14	97	74.4	13
1982	B-3	1.2	A-6	15	99	90.6	9
1982	B-4	1.6	A-2-4	8	51	16.3	subbase
1982	B-4	1.6	A-6	17	98	87.4	7
1982	B-5	2.0	A-4	9	89	49.6	22
1982	B-6	2.4	A-6	16	60	38.4	10
1982	B-7	2.8	A-2-4	11	49	25.7	26
1982	B-8	3.5	A-4	7	95	46.0	23
1984	base near tunnel		A-1-a	3	47	11.4	61
1984	base Far View v.c.		A-1-a	6	41	10.2	73
1984	B-1	4.2	A-4	7	79	43.4	26
1984	B-3	5.75	A-6	13	95	68.7	27
1984	B-5	6.9	A-2-4	NP	78	28.9	78
1984	B-6	7.25	A-4	2	91	37.6	75
1984	B-8	7.9	A-6	17	67	43.0	12
1984	B-9	8.25	A-7-6	22	95	72.1	<5
1984	B-10	8.75	A-2-4	NP	71	23.6	73

CO PRA MEVE 10(9) MAIN ENTRANCE ROAD

YEAR	SAMPLE	MP	CLASS	PI	Passing #4	Passing #200	R	
1984	B-11	9.15	A-7-6	22	91	70	<5	
1984	B-13	9.95	A-6	13	96	60.4	16	
1984	B-14	10.35	A-6	18	92	66	8	
1984	B-16	11.1	A-6	16	99	81.7	-	Clay just below base 6 to 9.5"
1984	B-16	11.1	A-6	16	90	67.4	6	9.5" to 4'
1984	B-18	11.9	A-6	11	95	69.5	19	
1984	B-19	12.3	A-6	19	98	82.8	17	
1984	B-25	13.0	A-4	10	97	58.9	24	
1984	B-24	13.35	A-6	13	98	68.5	22	
1984	B-22	14.2	A-6	15	89	54.4	21	
1984	B(5-8)	-	A-2-4	7	58	19.7	47	
2004	C-85	10.4	A-6 (4)	12	88	56	8	
2004	C-78	13.1	-	-	60	-	-	
2004	C-73	15.0	A-6 (2)	11	87	50	-	
2004	C-69	16.0	A-4 (3)	9	97	60	8	
2004	C-46	17.0	A-6 (10)	15	98	82	-	
2004	C-47	20.04	A-6 (13)	19	98	79	3	

Form - E - 226-A
Rev 4-76

US DEPARTMENT OF TRANSPORTATION - REGION 8
SUMMARY OF SOIL OR AGGREGATE TESTS

DATE 8/16/82
SHEET 1 of 2

PROJECT Colorado-Mesa Verde National Park Entrance Road

SUBMITTED BY: Bob Blenk TESTED BY: DH,DS,KW,KR,RR REPORTED BY G. Pacheco for A. Hel

DISTRIBUTION: Project Engineer - 1, CDFD Region - 1, Materials Lab - 3

SAMPLE NUMBER								
	Field No.							
	Hole No.	B-1	B-2	B-3	B-4	B-4	B-5	B-6
	Lab No.	82-908-S	82-909-S	82-910-S	82-911-RS	82-912-S	82-913-S	82-914-S
SAMPLE LOCATION	Station or Location	0.4	0.8	1.2	SUBBASE 1.6	1.6	2.0	2.4
	Offset							
	Depth	7" - 4'	7" - 4'	1'5" - 4'	3" - 1'4"	1'9"-4'	2'6"-4'	1'4" - 4'
AASHTO T-11, 27 & 88	3"+							
	3"							
	1-1/2"				100		100	100
	3/4"	100	100	100	97	100	99	88
	1/2"	99	99	99	81	99	97	71
	3/8"	99	99	99	69	99	95	66
	#4	98	97	99	51	98	89	60
	#8							
	#10	96	93	97	39	95	81	54
	#16	95	91	97	35	94	79	52
	#30							
	#40	93	86	95	27	91	74	49
	#50							
	#100	88	81	93	19	89	66	45
	#200	78.1	74.4	90.6	16.3	87.4	49.6	38.4
	0.05 mm							
	0.02 mm							
	0.002mm							
	0.001mm							
% Moist.								
AASHTO T-89, 90 & 92	SL							
	LL	33	34	35	23	35	25	32
	PI	13	14	15	8	17	9	16
AASHTO M-145	Class GI	A-6 9	A-6 9	A-6 14	A-2-4 0	A-6 14	A-4 1	A-6 2
AASHTO T-190	R	10	13	9	NT	7	22	10
	W(%)	16.8	15.1	16.6	NT	16.6	11.2	10.7
	γ_d(pcf)	111.0	115.8	112.7	NT	112.0	123.6	125.6
AASHTO T-99, 180	W(%)							
	γ_d(pcf)							

REMARKS

Location referenced from junction of park road and highway 160. All samples were from the subgrade except the subbase with lab number 82-911-RS.

Form - 8 - 226 - A
Rev. 4-76

U.S. DEPARTMENT OF TRANSPORTATION - REGION 8
SUMMARY OF SOIL OR AGGREGATE TESTS

DATE 8/16/82
SHEET 2 of 2

PROJECT Colorado-Mesa Verde National Park
SUBMITTED BY: Bob Blenk TESTED BY: DH, DS, KW, KR, RR REPORTED BY: G. Pacheco for A Held
DISTRIBUTION: Project Engineer - 1, Region - 1, Materials Lab - 2

SAMPLE NUMBER								
	Field No.							
	Hole No.	B-7	B-8					
	Lab No.	82-915-S	82-916-S					
SAMPLE LOCATION	Station or Location	2.8	3.5					
	Offset							
	Depth	1'6"-4'	1'3"-4'					
AASHTO T-11, 27 & 88	3"+							
	3"	100						
	1-1/2"	99						
	3/4"	86	100					
	1/2"	63	98					
	3/8"	56	97					
	#4	49	95					
	#8							
	#10	43	91					
	#16	41	90					
	#30							
	#40	38	87					
	#50							
	#100	33	73					
	#200	25.7	46.0					
	0.05 mm							
	0.02 mm							
	0.002mm							
	0.001mm							
% Moist.								
AASHTO T-89, 90 & 92	SL							
	LL	27	26					
	PI	11	7					
AASHTO M-145	Class	A-2-6	A-4					
	GI	0	1					
AASHTO T-190	R	26	23					
	W(%)	8.4	12.0					
	γ_d (pcf)	132.2	120.0					
AASHTO T-99, 180	W(%)							
	γ_d (pcf)							

REMARKS

Form-B-226-A
Rev 4-76

US DEPARTMENT OF TRANSPORTATION - REGION 6

SUMMARY OF SOIL OR AGGREGATE TESTS

SHEET 1 of 32

PROJECT COLORADO NP 1-D-E (Por.) MESA VERDE N.P.-MONUMA OVERLOOK TO NAVAJO HILL

SUBMITTED BY: B. Blenk TESTED BY: DH, KW, KR REPORTED BY G. Pacheco

DISTRIBUTION Project Engineer -1, Region -1, Materials Lab -2

SAMPLE NUMBER								
	Field No							
	Hole No.	B-1	B-3	B-5	B-6	B-8	B-9	B-10
	Lot No.	83-546-S	83-548-S	83-550-S	83-551-S	83-553-S	83-554-S	83-555-S
SAMPLE LOCATION	Station or Location	~~0.45~~ MP 4.2	~~2.0~~ MP 5.75	~~3.15~~ MP 6.9	~~3.5~~ MP 7.25	~~4.1~~ MP 7.9	~~4.5~~ MP 8.25	~~5.0~~ MP 8.75
	Offset Depth	13"-4'	14"-4'	9½"-4'	11"-4'	14"-4'	9"-4'	11"-4'
AASHTO T-11, 27 B 88	3"							
	3"	100		100				100
	1-1/2"	98	100	99	100	100		94
	3/4"	93	99	92	96	97		88
	1/2"	90	99	86	94	83	100	82
	3/8"	87	98	84	93	76	99	78
	#4	79	95	78	91	67	95	71
	#8							
	#10	74	93	75	86	62	93	67
	#16	72	92	73	84	60	92	66
	#30							
	#40	69	90	71	81	56	89	64
	#50							
	#100	63	86	69	54	51	77	36
	#200	43.4	68.7	28.9	37.6	43.0	72.1	23.6
	0.05 mm							
	0.02mm							
	0.002mm							
	0.001mm							
% Moist.								
AASHTO T-99, 90 & 92	SL							
	LL	26	31	NV	23	35	41	NV
	PI	7	13	NP	2	17	22	NP
AASHTO M-145	Class GI	A-4	A-6	A-2-4	A-4	A-6	A-7-6	A-2-4
AASHTO T-190	R	26	27	78	75	12	< 5	73
	W(%)	10.9	11.8	14.1	8.9	12.1	18.5	10.8
	γ_d (pcf)	122.8	120.4	111.9	115.9	120.0	114.1	119.6
AASHTO T-99, 180	W(%)							
	γ_d (pcf)							

REMARKS

orm-8-226-A
Rev 4-76

US DEPARTMENT OF TRANSPORTATION - REGION 8

SUMMARY OF SOIL OR AGGREGATE TESTS

SHEET 2 of ~~3~~ 2

PROJECT COLORADO NP I-D-#(Por.) Mesa Verde N.P., Mon. uma Overlook to Navajo Hill

SUBMITTED BY Bob Blenk TESTED BY DH,KW,KR REPORTED BY G.Pacheco

DISTRIBUTION: Project Engineer -1, Region CDFD1, Materials Lab -3

SAMPLE NUMBER								
	Field No							
	Hole No.	B-11	B-13	B-14	B-16	B-18	B-19	B-25
	Lab No.	83-556-S	83-560-S	83-561-S	83-563-S	83-565-S	83-566-S	83-568-S
SAMPLE LOCATION	Station or Location	~~5.4~~ MP 9.15	~~6.2~~ MP 9.95	~~6.6~~ MP 10.35	~~7.35~~ MP 11.1	~~8.15~~ MP 11.9	~~8.55~~ MP 12.3	~~9.24~~ MP 13.0
	Offset Depth	10"-4'	7"-4'	6½"-4'	9½"-4'	6"-4'	7"-4'	1-4'
AASHTO T-11, 27 B 88	3"							
	3"							
	1-1/2"		100					
	3/4"	100	99	100	100	100		100
	1/2"	99	99	98	97	99		99
	3/8"	98	98	97	95	98	100	99
	#4	91	96	92	90	95	98	97
	#8							
	#10	86	94	89	87	93	97	93
	#16	83	92	88	86	92	96	91
	#30							
	#40	78	90	85	84	91	94	86
	#50							
	#100	73	85	82	82	89	92	82
	#200	70.0	60.4	66.0	67.4	69.5	82.8	58.9
	0.05 mm							
	0.02mm							
	0.002mm							
	0.001mm							
% Moist.								
AASHTO T-99, 90 & 92	SL							
	LL	44	30	34	33	28	33	27
	PI	22	13	18	16	11	19	10
AASHTO M-145	Class GI	~~A-7-6~~	~~A-6~~	~~A-6~~	A-6	A-6	A-6	A-4
AASHTO T-190	R	< 5	16	8	6	19	17	24
	W(%)	> 17	14.5	14.7	16.7	12.0	13.8	11.9
	γ_d(pcf)	< 102	114.2	113.5	110.8	118.4	116.1	119.7
AASHTO T-99,180	W(%)							
	γ_d(pcf)							

REMARKS

FHWA-16-226-A
Rev. 9-28-83

DEPARTMENT OF TRANSPORTATION
Federal Highway Administration
Central Direct Federal Division

SHEET 1 of 1

DATE 7/18/84

SUMMARY OF SOIL OR AGGREGATE TESTS

PROJECT Colorado-Mesa Verde National Park

SUBMITTED BY. S. Holder TESTED BY DH, WK, KW, KR REPORTED BY. Alan Held arnold

DISTRIBUTION: Project Engineer-1, CDFD File1, Materials Lab-3 Design _____ Construction _____

SAMPLE NUMBER	Field No.							
	Hole No.	Existing Base Course						
	Lab No.	84-901-RS	84-902-S					
SAMPLE LOCATION	Station or Location	Near Tunnel	60' NE of sign reading "Far View Motor Lodge" near the Far View visitor's center					
	Offset							
	Depth							
AASHTO T-11, 27 & 88	3"							
	1 1/2"	100	100					
	1"	99	95					
	3/4"	90	80					
	1/2"	76	67					
	3/8"	66	59					
	# 4	47	41					
	# 8	36	35					
	# 10	34	34					
	# 16							
	# 30	23	26					
	# 40	21	24					
	# 50	18	21					
	#100							
	#200	11.4	10.2					
	0.05mm							
	002mm							
	0.002mm							
	0.001mm							
% Moist.								
AASHTO T-99, 90 & 92	SL							
	LL	21	23					
	PI	3	6					
AASHTO M-145	Class	A-1-a	A-1-a					
	GI							
AASHTO T-190	R	61	73					
	W(%)	6.9	6.8					
	γ_0(pcf)	128.4	126.5					
T 80	W(%)							
	γ_0(pcf)							

REMARKS: Location near tunnel had 3" of old asphalt pavement including chips overlying 6" of base course.

U.S.Department of Transportation
Federal Highway Administration

Central F 'eral Lands Highway Division ' .boratory

An AASHTO and ISO Accredited Laboratory

AASHTO R18 ISO/IEC 17025

Report of Miscellaneous Tests

Project: Colorado PRA MEVE 10(8) & 200(1) Main Entrance & Wetherhill Mesa

Laboratory Numbers: 04-(683-702)- SB

Date Reported: 8/2/2004

Submitted By: Steve Deppmeier

Material Type: Subgrade Soil

Material Source: Not Applicable

Tested For: AASHTO T 265 Moisture Content of Soils

Field Sample Numbers: See Below

Test Results

Laboratory Number	04-683-SB	04-684-SB	04-685-SB	04-686-SB
Field Number	C-2	C-4	C-9	C-12
Road	Chapin	Chapin	Chapin	Chapin
Milepost	0.5	0.45	4.3	5.0
Moisture Content (%)	20.5	6.2	5.0	3.4

Laboratory Number	04-687-SB	04-688-SB	04-689-SB	04-690-SB
Field Number	C-16	C-18	C-19	C-24
Road	Chapin	Chapin	Chapin	Balcony
Milepost	6.75	7.5	8.35	1.75
Moisture Content (%)	4.4	3.5	4.3	14.4

Laboratory Number	04-691-SB	04-692-SB	04-693-SB	04-694-SB
Field Number	C-28	C-40	C-43	C-54
Road	Balcony	Chapin	Chapin	Sun Point
Milepost	2.75	19.6	17.8	2.0
Moisture Content (%)	9.0	9.8	13.8	9.2

Laboratory Number	04-695-SB	04-696-SB	04-697-SB	04-698-SB
Field Number	C-56	C-62	C-65	C-71
Road	Sun Point	Sun Point	Chapin	Chapin
Milepost	2.5	4.7	17.3	15.8
Moisture Content (%)	8.0	6.0	2.3	14.0

Laboratory Number	04-699-SB	04-700-SB	04-701-SB	04-702-SB
Field Number	C-74	C-80	C-81	C-87
Road	Chapin	Chapin	Chapin	Chapin
Milepost	14.75	12.3	11.0	9.5
Moisture Content (%)	3.8	4.8	5.0	3.8

Remarks: All moisture samples were taken from sealed plastic bags. Depths were not furnished.

Distribution:
Laboratory
Pavements
Materials

Num. Projects
Darrell Harding
Steve Deppmeier
1 Copy

Reported By:

Darrell Harding

U.S.Department of Transportation
Federal Highway Administration

Central F 'eral Lands Highway Division ' boratory

An AASHTO and ISO Accredited Laboratory

AASHTO R18 ISO/IEC 17025

Report of Soil or Aggregate Tests

Project: Colorado PRA MEVE 10(8) & 200 (1) Main Entrance & Wetherhill Mesa
Submitted By: Steve Deppmeier

Date Reported: 8/2/2004

Sample Number	Lab Number		04-711-RV	04-712-S	04-713-RV	04-714-S	04-715-S
	Hole Number						
	Field Number		B-1 Cultural Center	C-25	C-29	C-31	C-35
Sample Location	Road		--	Balcony	Balcony	Balcony	Balcony
	Milepost		--	2.0	3.0	3.5	4.4
	Depth		0'-5'	3.25"-5'	3.5"-5'	0.5"-5.5'	1'-5'
AASHTO T 11, T 27 & T 88 Washed Sieve Analysis % Passing	3"	75.0 mm					
	1 1/2"	37.5 mm					
	1"	25.0 mm		100	100		100
	3/4"	19.0 mm		99	99		99
	1/2"	12.5 mm		98	97		98
	3/8"	9.5 mm		98	95	100	97
	#4	4.75 mm		94	90	99	95
	#8	2.36 mm					
	#10	2.00 mm	100	91	87	99	90
	#16	1.18 mm	99	89	85	99	87
	#30	600 µm					
	#40	425 µm	98	85	82	97	84
	#50	300 µm					
	#100	150 µm	95	79	79	75	81
	#200	75 µm	86	45	44	26	71
		20 µm					
		2 µm					
		1 µm					
AASHTO T 255	Moisture, %		*	7.4	10.7	6.7	9.9
AASHTO T 89 & T 90	Liquid Limit		34	26	23	NV	30
	Plasticity Index		16	7	6	NP	14
Soil Classification	AASHTO M 145		A-6 (13)	A-4 (0)	A-4 (0)	A-2-4 (0)	A-6 (8)
	ASTM D 2487		CL	SC-SM	SC-SM	SM	CL
AASHTO T 190	R –Value		5		16		
AASHTO T 288	Min. Resistivity, ohm-cm						
AASHTO T 289	pH						
AASHTO Method	Optimum Moisture, %						
	Maximum Dry Density, pcf						

Distribution:

Laboratory	Num. / Project File
	Darrell Harding
Pavements	Steve Deppmeier
Materials	1 Copy

Remarks:
Moisture content samples were taken from sealed plastic bags.

* This sample's plastic bag was damaged when received by the laboratory. Consequently, a moisture content test was not performed.

R-Value testing was not requested for field sample numbers C-25, C-31 & C-35.

Reported By:

Darrell Harding

U.S.Department of Transportation
Federal Highway Administration

Central Federal Lands Highway Division Laboratory

An AASHTO and ISO Accredited Laboratory

AASHTO R18 ISO/IEC 17025

Report of Soil or Aggregate Tests

Project: Colorado PRA MEVE 10(8) & 200 (1) Main Entrance & Wetherhill Mesa

Submitted By: Steve Deppmeier

Date Reported: 8/2/2004

Sample Number	Lab Number		04-721-RV	04-722-S	04-723-RV	04-724-RV	
	Hole Number						
	Field Number		C-69	C-73	C-78	C-85	
Sample Location	Road		Chapin	Chapin	Chapin	Main Entrance Rd ~~Chapin~~	
	Milepost		16.0	15.0	13.1	10.4	
	Depth		11"-3'	13"-4'	4.5"-13.5"	10.75"-5'	
AASHTO T 11, T 27 & T 88 Washed Sieve Analysis % Passing	3"	75.0 mm					
	1 1/2"	37.5 mm		100			
	1"	25.0 mm		99			
	3/4"	19.0 mm	100	97	100	100	
	1/2"	12.5 mm	99	93	89	97	
	3/8"	9.5 mm	98	91	80	95	
	#4	4.75 mm	97	87	60	88	
	#8	2.36 mm					
	#10	2.00 mm	95	83	*	82	
	#16	1.18 mm	94	81	*	80	
	#30	600 µm					
	#40	425 µm	93	78	*	76	
	#50	300 µm					
	#100	150 µm	91	73	*	71	
	#200	75 µm	60	50	*	56	
		20 µm					
		2 µm					
		1 µm					
AASHTO T 255	Moisture, %		13.7	8.9	5.5	9.8	
AASHTO T 89 & T 90	Liquid Limit		24	25	*	27	
	Plasticity Index		9	11	*	12	
Soil Classification	AASHTO M 145		A-4 (3)	A-6 (2)	*	A-6 (4)	
	ASTM D 2487		CL	CL	*	CL	
AASHTO T 190	R –Value		8		*	8	
AASHTO T 288	Min. Resistivity, ohm-cm						
AASHTO T 289	pH						
AASHTO Method	Optimum Moisture, %						
	Maximum Dry Density, pcf						

Distribution:

Laboratory	Num. / Project File
	Darrell Harding
Pavements	Steve Deppmeier
Materials	1 Copy

Remarks:

Moisture content samples were taken from sealed plastic bags.

R-Value testing was not requested for field sample number C-73.

* Due to the highly asphaltic nature of the material, the -#4 gradation, plasticity index, classification and R-Value were not performed.

Reported By:

Darrell Harding

Form FHWA 1702 Rev. 12/01

APPENDIX C

PHOTOGRAPHS

Photo 1: C-1 @ MP 0.25

Photo 2: C-4 @ MP 1.25

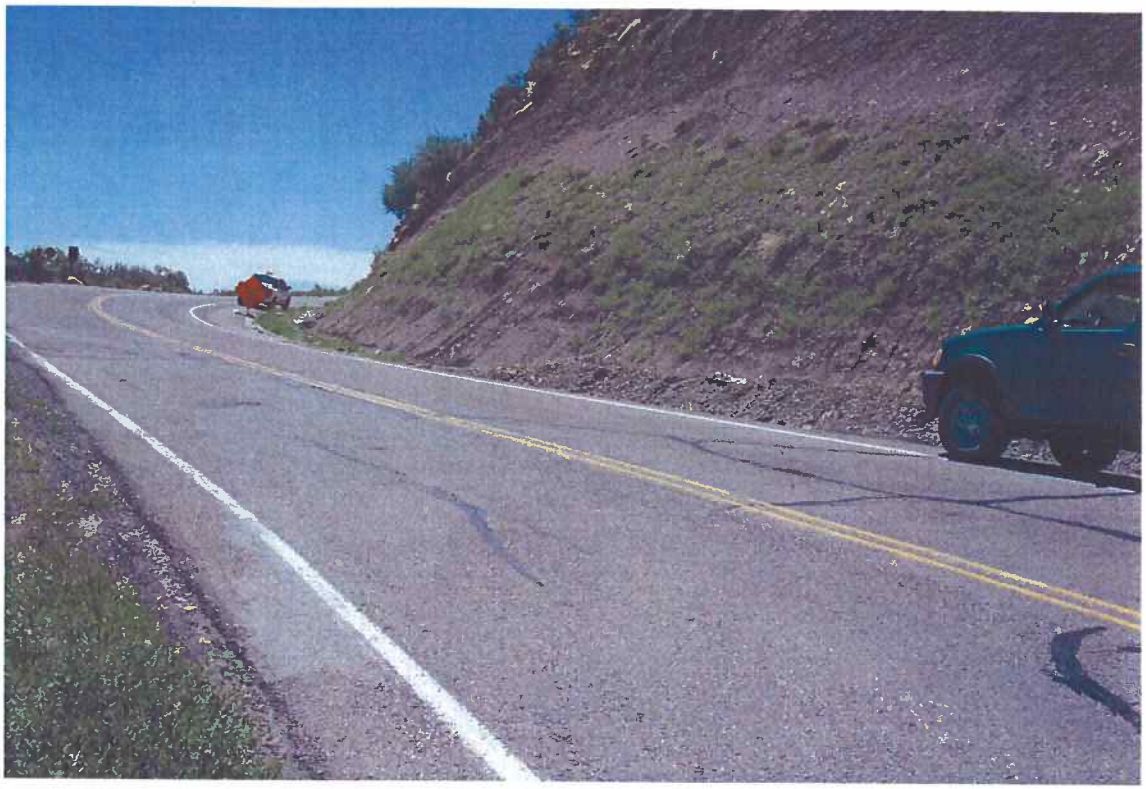


Photo 3: C-6 @ MP 2.3

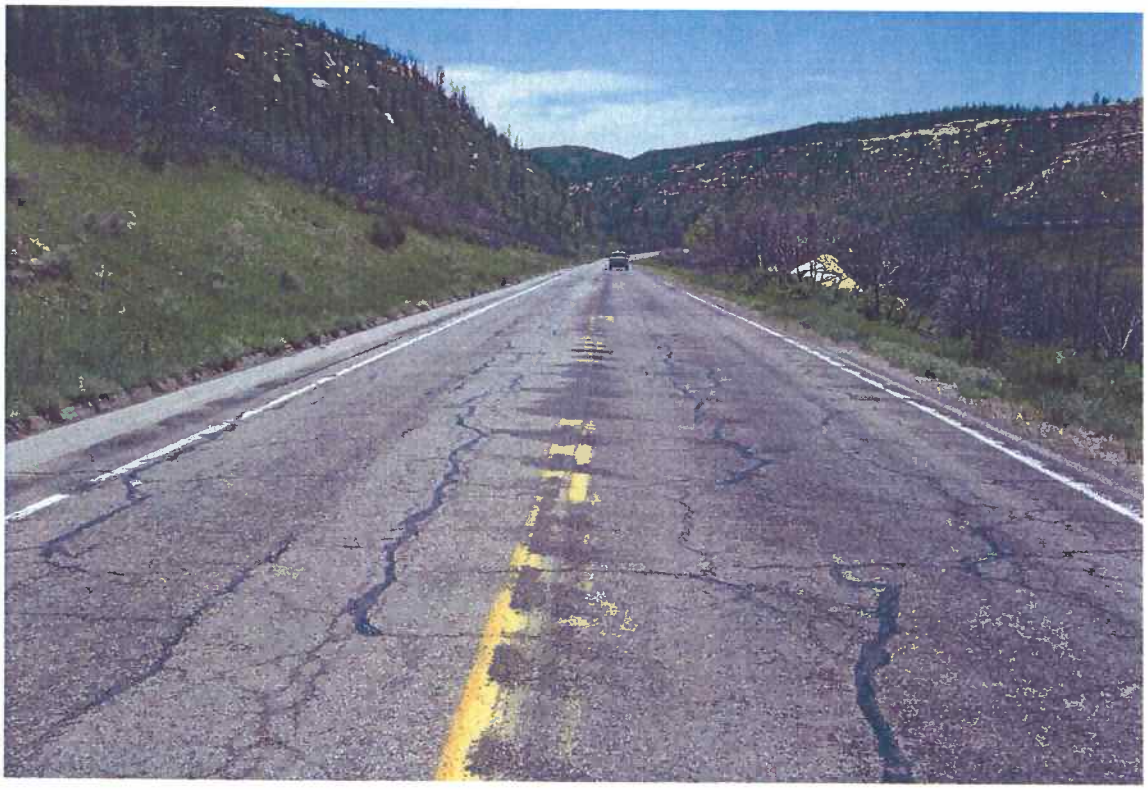


Photo 4: C-10 @ MP 4.5

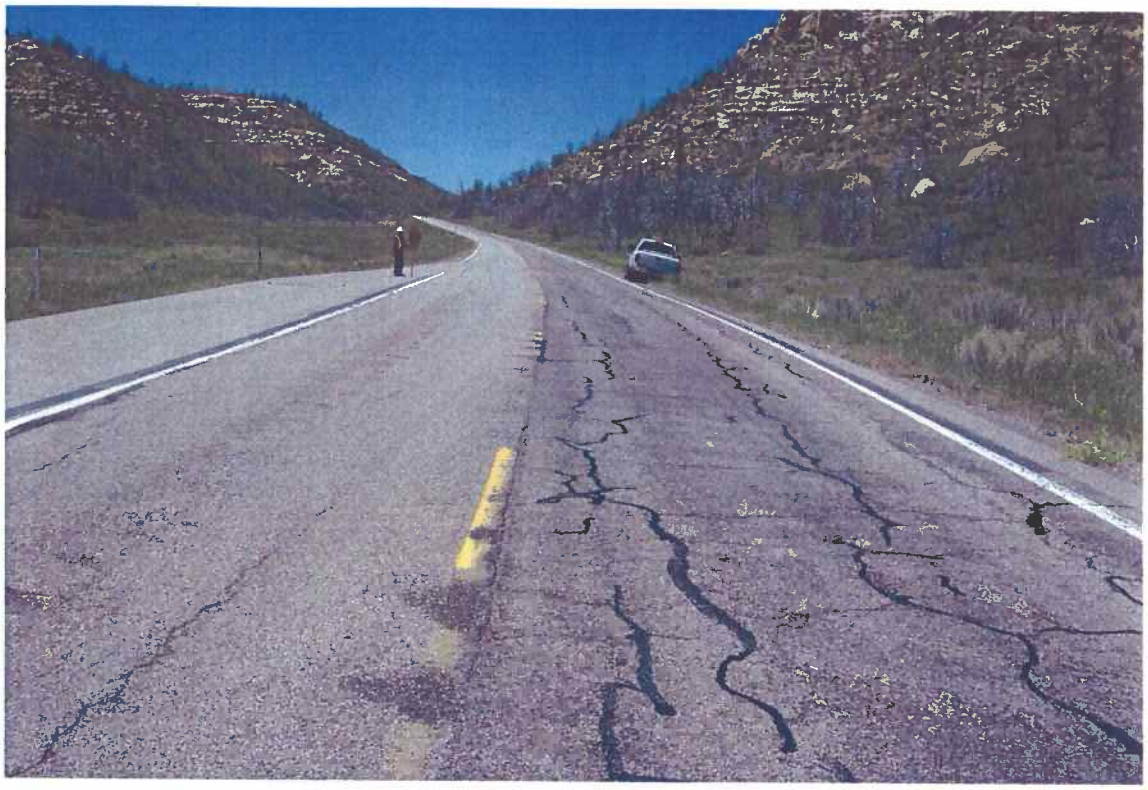


Photo 5: C-13 @ MP 5.75

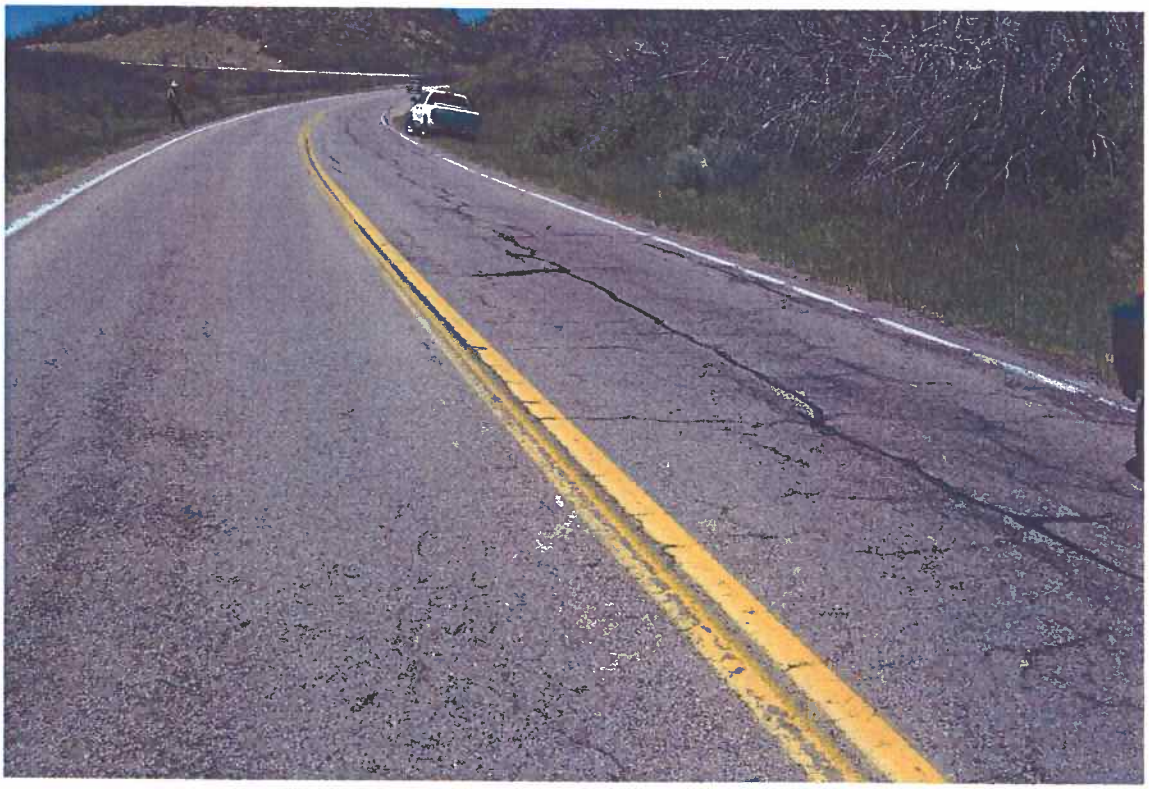


Photo 6: C-15 @ MP 6.5

Photo 7: C-18 @ MP 7.5

Photo 8: C-18 @ MP 7.5

Photo 9: C-19 @ MP 8.35

Photo 10: C-22 @ MP 9.25

Photo 11: C-87 @ MP 9.4

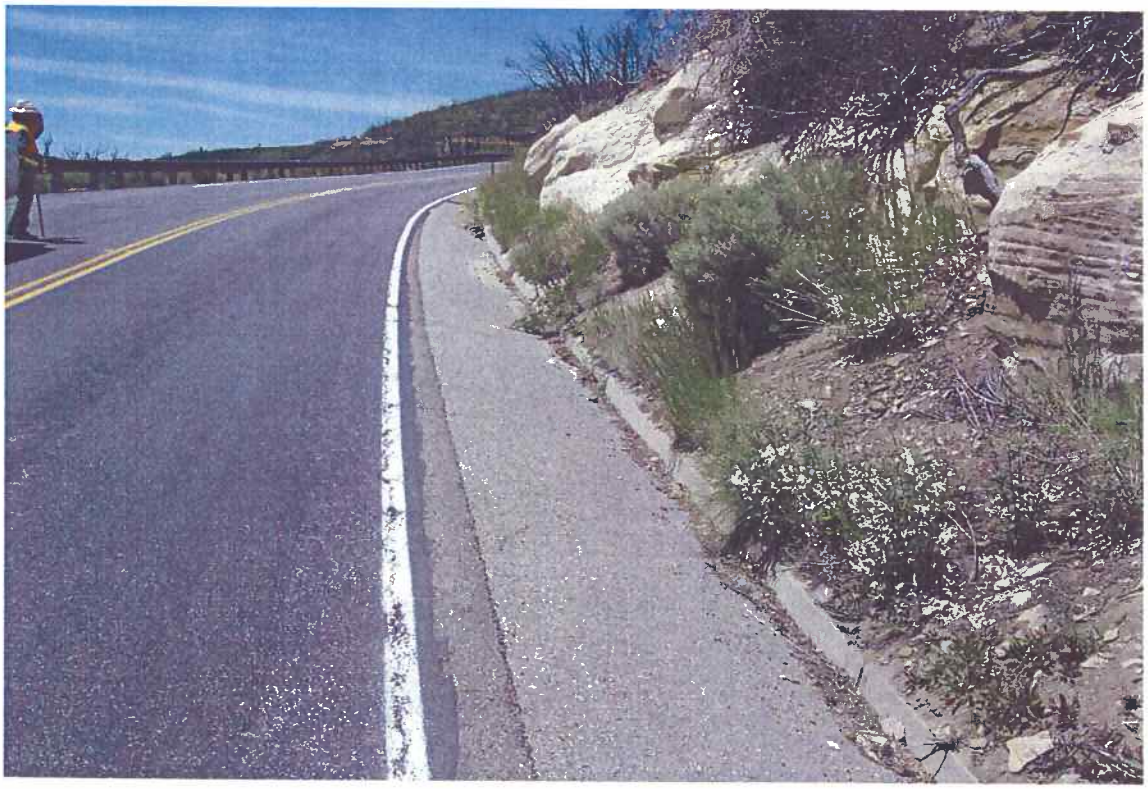


Photo 12: C-87 @ MP 9.4

APPENDIX D

PAVEMENT DESIGN CALCULATIONS

Option 1

1993 AASHTO Pavement Design

DARWin Pavement Design and Analysis System

A Proprietary AASHTOWare Computer Software Product

Flexible Structural Design Module

Flexible Structural Design

18-kip ESALs Over Initial Performance Period	204,907
Initial Serviceability	4.2
Terminal Serviceability	2.5
Reliability Level	75 %
Overall Standard Deviation	0.49
Roadbed Soil Resilient Modulus	6,600 psi
Stage Construction	1
Calculated Design Structural Number	2.56 in

Rigorous ESAL Calculation

Performance Period (years)	20
Two-Way Traffic (ADT)	1,600
Number of Lanes in Design Direction	1
Percent of All Trucks in Design Lane	100 %
Percent Trucks in Design Direction	60 %

Vehicle Class	Percent of ADT	Annual % Growth	Average Initial Truck Factor (ESALs/ Truck)	Annual % Growth in Truck Factor	Accumulated 18-kip ESALs over Performance Period
2	96	1	0.0004	0	2,949
4	1	1	0.88	0	67,575
5	2.5	1	0.5	0	95,988
7	0.5	1	1	0	38,395
Total	100	-	-	-	204,907

Growth	Simple
Total Calculated Cumulative ESALs	204,907

Specified Layer Design

Layer	Material Description	Struct Coef. (Ai)	Drain Coef. (Mi)	Thickness (Di)(in)	Width (ft)	Calculated SN (in)
1	Mill 2 inches	0	1	0	-	0.00
2	HACP	0.44	1	2.5	-	1.10
3	FDR with Foamed Asphalt	0.25	1	6	-	1.50
4	Remaining base material	0.06	1	2	-	0.12
Total	-	-	-	10.50	-	2.72

Option 2

1993 AASHTO Pavement Design

DARWin Pavement Design and Analysis System

A Proprietary AASHTOWare
Computer Software Product

Flexible Structural Design Module

Flexible Structural Design

18-kip ESALs Over Initial Performance Period	204,907
Initial Serviceability	4.2
Terminal Serviceability	2.5
Reliability Level	75 %
Overall Standard Deviation	0.49
Roadbed Soil Resilient Modulus	6,600 psi
Stage Construction	1
Calculated Design Structural Number	2.56 in

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Two-Way Traffic (ADT)	1,600
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Percent of All Trucks in Design Lane	100 %
Percent Trucks in Design Direction	60 %

Vehicle Class	Percent of ADT	Annual % Growth	Average Initial Truck Factor (ESALs/ Truck)	Annual % Growth in Truck Factor	Accumulated 18-kip ESALs over Performance Period
2	96	1	0.0004	0	2,949
4	1	1	0.88	0	67,575
5	2.5	1	0.5	0	95,988
7	0.5	1	1	0	38,395
Total	100	-	-	-	204,907

Growth	Simple
Total Calculated Cumulative ESALs	204,907

Specified Layer Design

Layer	Material Description	Struct Coef. (Ai)	Drain Coef. (Mi)	Thickness (Di)(in)	Width (ft)	Calculated SN (in)
1	Mill 2 inches	0	0	0	-	0.00
2	HACP	0.44	1	4	-	1.76
3	PULVERIZE	0.12	1	6	-	0.72
4	Existing Base-like Material	0.06	1	2	-	0.12
Total	-	-	-	12.00	-	2.60

LTPPBind V2.1 Three closest weather Stations Report: (Date 11/2/2006)
For Latitude/Longitude= 37.18224 / 108.4891

	A=2 km	B=23 km	C=39 km
State	CO	CO	CO
Station ID	0055531	0051886	0053016
County	MONTEZUMA	MONTEZUMA	LA PLATA
Weather Station	MESA VERDE NATL PARK	CORTEZ	FORT LEWIS
Elevation, m	2169	1893	2317
Latitude/Longitude	37.20/108.48	37.37/108.55	37.23/108.05
Last Year Data Available	1996	1996	1996
Low Temp. Mean (Std, N)	-19.0 (3.5,38)	-23.8 (4.2,52)	-26.6 (3.8,25)
High 7-day Average Mean (Std, N)	33.0 (1.2,35)	34.0 (1.1,52)	29.9 (1.1,19)
Low Temp. Drop Mean (Std, N)	16.0 (4.0,36)	22.7 (3.5,51)	21.9 (3.9,25)
Degree Days Over 30 C (Std, N)	73 (37,35)	127 (44,52)	8 (10,19)
Using HT/LT Model:LTPP/LTPP			
50% Reliability Pavement Temp.	51.6 -12.0 (50,50)	52.3 -15.5 (50,50)	49.1 -17.5 (50,50)
>50% Rel. PG (High, Low Rel.)	52 -16 (55,88)	58 -16 (96,55)	52 -22 (81,90)
	58 -16 (97,88)	58 -22 (96,96)	58 -22 (98,90)
	58 -22 (97,98)	64 -28 (98,98)	58 -28 (98,98)
	64 -22 (98,98)		

APPENDIX E

FIELD DATA SUMMARY

CO PRA MEVE 10(9) Main Entrance Road

SAMPLE ID	MILEPOST	ASPHALT THICKNESS	DCP mm/blow	R VALUE	SOIL CLASS	MATERIAL	CRACKS	ROAD WIDTH	BORING DEPTH
C-1	0.25	5.0"				brown sandy gravel	High trans, long, block, <1/2" rut	28.1'	1'
C-2	0.5	7.0" solid				brown sandy gravel	High trans, long, allig lt outside whl	29.0'	1'
C-3	0.75	4.0"				brown sandy gravel	High trans, long, blk, allig	28.6'	1'
C-4	1.25	6.0" b1.5" bad				brown sandy gravel	High trans, long, blk, allig, <1/2" rut	27.8'	1'
C-5	1.85	8.0"				brwon sandy gravel w/clay	High trans, long	26.0'	1'
C-6	2.3	5.0" solid				silty gravel	High trans, long	28.5'	1'
C-7	3.25	5.0"				dark brown clayey gravel	no cracks - first time	30.8'	1'
C-8 Mancos	3.55	8.0" soft				dark brown gravel	heavy wheelline cracking	26.9'	1'
C-9	4.3	6.0"				sandy gravel w/silt	cracked sealed	28.7'	1'
C-10	4.5	5.0"				dark brown gravel w/silt	high long, block	26.6'	1'
C-11	4.75	5.5" soft				sandy gravel w/silt - nice	high long, block	28.5'	1'
C-12 tunnel	5.0	5.0"				gravelly sand w/silt - dirty roadmix	cracked sealed	27.7'	1'
C-13	5.75	5.0"				dark brown gravel	high trans, long, block	27.7'	1'
TP-1	6.0	6.0"				0-6"hacp; 6"-8" base; 8"- old roadway mix w/base			
C-14	6.25	6.0"				dark brown gravel	high long. Block	27.7'	1'
C-15	6.5	5.0" solid				dark brown gravel	high long. Block wheelline fatigue	27.5'	1'
C-16 Montezum	6.75	6.0"				dark brown gravel	high long, block	28.5'	1'
C-17	7.25	9.0"				dark brown gravel	high long, block; med trans on curve	28.0'	1'
C-18	7.5	7.0" soft				sandy gravel w/silt; soft drilling	slide area; high long, >1" rut		1'
C-19	8.35	6.5"				sandy gravel w/silt	high long, wheelline fatigue; >2" rut	25.0'	1'
C-20	8.5	7.75"				sandy gravel w/silt	settlement, slide area	24.0'	1'
C-21	9.0	5.25" soft				sandy gravel w/silt	high trans, thin overlay, soft hacp	26.2'	1'
C-22	9.25; 14+900	5.5" soft				sandy gravel w/silt	soft hacp	17.1'	1'
C-87	9.4	4.5"	11.1			sandy gravel w/silt: roadmix	mod: trans, long, block, reflect thru s.s.	25.5'	1'
C-86	10.0	4.5"				sandy gravel w/silt: roadmix	mod trans reflect thru s.s.	24.0'	1'
C-85	10.4	5.25"		8	A-6 (4)	5.25"-10.75" roadmix; 10.75"-yellow clay	surface seal, road cut area	27.1'	5'

APPENDIX F

FWD Report – Ground Engineering Consultants, Inc.

Nondestructive Deflection Testing and Pavement Evaluation
Mesa Verde National Park
Entrance Road
Montezuma County, Colorado

Prepared for:

Federal Highway Administration
Central Federal Lands Highway Department
Denver Federal Center, Building 52
Lakewood, Colorado 80225

Attention: Mr. Michael Voth

Job Number 02-0170

December 26, 2002

GROUND
ENGINEERING CONSULTANTS

41 Inverness Drive East, Englewood, CO 80112-5412
North Office: 7393 Dahlia Street, Commerce City, CO 80022-1834

Phone (303) 289-1989 Fax (303) 289-1686
www.groundeng.com

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Results and Conclusions	5
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Pavement Design Analysis	Appendix B
Average Asphalt Resilient Modulus Calculations	Appendix C
Average Base Resilient Modulus Calculations	Appendix D
Summary of Test Results and Calculated Modulus Values	Appendix E
Summary of Field Deflection Results	Appendix F

SUMMARY

GROUND Engineering Consultants, Inc. (GROUND) has completed the nondestructive deflection testing (NDT) program for the requested portion of the **Mesa Verde Entrance Road**, located within the Mesa Verde National Park in Montezuma County, Colorado.

Approximately 9.2 miles (14.75 km) of the roadway alignment was evaluated using a 2002 JILS Falling Weight Deflection machine for the purpose of evaluating the effect of construction traffic resulting from a proposed cut of an existing slope approximately 9 miles from the park entrance. Based on the traffic loading information provided, the analysis of the NDT results suggest that the majority of the existing roadway segments consist of pavement sections that have remaining 18-kip equivalent single axle loading capacities (ESAL) which are capable of supporting the background traffic (for general park use), as well as the additional heavy construction traffic loading resulting from the removal and hauling of approximately 100,000 m^3 of material from the proposed cut slope. It does not appear that the proposed excavation must be reduced in order to preserve the majority of the existing road for an additional 6 years of intended use.

A detailed discussion of the testing program, analysis, and specific information for various segments of the roadway alignment that was analyzed is presented herein.

PURPOSE AND SCOPE OF STUDY

This report presents the results of a nondestructive deflection testing program and pavement evaluation for 9.2 miles of the Mesa Verde National Park entrance road. We understand that the roadway alignment is scheduled for rehabilitation and/or replacement in 2008. Prior to the rehabilitation, an existing slope is proposed to be excavated and laid back, resulting in the generation of waste material that must be removed via the subject road using semi tractor trailers. The amount of waste material that must be removed is dependant on the degree to which the existing slope is excavated. We understand that the purpose of this project is to evaluate the ability of the existing pavement to undergo the normal loading associated with the park for a duration of 6 years, as well as evaluate the impact of the additional loading resulting from the heavy construction traffic associated with the proposed cut.

Nondestructive deflection testing (NDT) through the use of a 2002 JILS Falling Weight Deflectometer (FWD) was performed along the existing alignment of the existing Mesa Verde National Park entry road. In accordance with the project documents, a NDT evaluation of the pavement condition was performed at a minimum frequency of approximately one test location for every 100 meters.

This report has been prepared to summarize the data obtained and to present our conclusions and recommendations based on the data obtained from the NDT program and the information provided by the Central Federal Lands Highway Department.

PROJECT LIMITS/EXISTING PAVEMENT SECTIONS

The limits of this evaluation consist of approximately the first 9.2 miles (14.75 km) of the Mesa Verde National Park entrance/access road. The existing pavement sections along with subsurface data to a depth of approximately 1.5 meters, as well as the anticipated traffic loads and additional construction loads were provided by the Central Federal Lands Highway Division. We understand that the majority of the existing pavement sections were completed approximately 30 years ago, with occasional maintenance consisting of patching, crack sealing, overlays and replacement performed on an as-needed basis.

The surface of the pavement sections observed were in variable condition, ranging from new pavement to minor rutting and/or significant alligator cracking.

NONDESTRUCTIVE DEFLECTION TESTING

A nondestructive deflection testing (NDT) program was performed using a 2002 JILS Falling Weight Deflectometer (FWD). Evaluation of the pavement section effective structural capacity can be performed through the use of dynamic impulse loads and the subsequent measurement of the deflection basin. Using the measured deflection basin, the resilient modulus values of the in-situ base course and subgrade materials, as well as the effective pavement layers are estimated. The Falling Weight Deflectometer (FWD) has the capability of adjustable loads ranging from approximately 6,000 pounds to 24,000 pounds. For this testing, it was specified that each test point is to be subjected to dynamic impulse loads of 6,000 pounds, 9,000 pounds, and 12,000 pounds. The individual load was transmitted to the pavement through a set of springs and a 12-inch diameter rigid plate. Seven geophones were used to measure the deflection basin at offsets of 0, 8, 12, 18, 24, 36 and 60 inches.

The deflection tests were performed along the roadway segments at a spacing of no greater than 100 meters for each lane. Areas that yielded high deflections were tested more frequently, generally on 25 or 50 meter centers. The deflection tests were generally performed in the outer wheel path of each travel lane evaluated.

During the deflection testing, a calibration sequence was performed periodically to maintain the desired "target" loads. As pavement temperatures increase, a reduction in the pavement section

stiffness is observed and the actual force imposed on the pavement decreases. This necessitates the use of periodic calibration throughout the day.

Pavement temperature was determined automatically at each test location, with the pavement temperatures input directly into the data file by the JILS computer software. Ambient temperatures and general directional bearings were recorded in the general notes at each test location.

In addition, the loadings and deflection basins were shown graphically "real time" during the testing. Occasionally, anomalies or discontinuities were observed in the test data and retesting was performed.

ANALYSIS

When the deflection testing was completed, the raw data was converted to both an .FWD file and .PDDX file format for additional analysis and modulus determination. The computer software, DAPS 1.3 (Deflection Analysis of Pavement Structures), designed by Abatech, Inc., was used for back calculation of the effective modulus of the asphalt, granular base, and subgrade. The DAPS program requires that the thickness, density, and void ratio is input for each of the pavement section layers. A correction factor is applied to correct the results to a mean temperature of 68 degrees Fahrenheit. A detailed discussion of the inputs used is included in Appendix A.

The DAPS program calculates the modulus of each pavement layer, as well as the percentage of error for each deflection basin. The percentage of error is calculated as the Root Mean Square error divided by the maximum deflection. Errors of less than 4 percent indicate that the data obtained resulted from a satisfactory deflection basin, (an accurate test). As shown in the data for this project, 2 of the 361 tests contained errors of 4.0 and 4.1 percent; all others had errors less than 4 percent, with the vast majority having errors of less than 1.0 percent. This information is presented in Appendix E: Summary of Test Results and Calculated Modulus Values.

The results of the modulus calculations generated by the computer software was exported to Microsoft Excel™ for further manipulation. The modulus for the asphalt, base course, and subgrade were converted from Metric to English units and separated by location. For this purpose, the data was analyzed for each kilometer of roadway. The average modulus for the pavement, base course, and subgrade for each kilometer was evaluated at each target loading in each lane of analysis. A comparison was made for each test location between the three individual loads of 6,000 pounds, 9,000 pounds, and 12,000 pounds, and the average percent deviation was also calculated. In general, most of the data from different loads at the same location yielded calculated moduli that averaged within 5 percent of the mean. However, in some cases, the

stiffness is observed and the actual force imposed on the pavement decreases. This necessitates the use of periodic calibration throughout the day.

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average deviations exceeded 20 percent. Typically, for average deviations that exceeded 10 percent, one of the three tests (at a given location) appeared inconsistent with the other two; seldom were all three tests greatly different from one another.

After the data was compiled, the average asphalt resilient modulus for a specific kilometer of roadway was determined. The modulus for each kilometer of roadway was also determined after the two highest modulus values obtained (for that kilometer of roadway) were removed. This typically resulted in a reduction of the average modulus of approximately 5 to 10 percent.

The average modulus obtained for the asphalt was then correlated to a structural coefficient for use in the pavement analysis through the following equation:

$SN_{eff} = 0.0045 * (M_{R,asphalt})^{1/3}$ (from AASHTO)

This resulted in average effective structural coefficients ranging from 0.29 to over 0.40. Typically, new asphalt is considered to have a structural number of 0.40 or more.

The average resilient modulus of the base material was occasionally lower than that of the subgrade. This is likely the result of the fill placed under the subgrade being composed of gravelly sand, which is similar to base course, and is likely well consolidated and based on the drier seasons experienced recently, probably very low in moisture content. In addition, it may be the result of the gradual contamination of the base course with fine material that has propagated upward.

The subgrade modulus was averaged from the data obtained for each kilometer of roadway, and the average subgrade modulus (approximately 20,000 psi) was adjusted by a factor of 0.33, resulting in a modulus of 6,600 psi, which was used for the subgrade modulus input in the pavement design analysis. The average resilient modulus of the asphalt was also obtained, and the value of 300,000 psi was used in the evaluation. Approximately 80% of the roadway alignment yielded an average asphalt resilient modulus which exceeded the resilient modulus value of 300,000 psi used in the evaluation. This resilient modulus was converted to an effective existing structural coefficient of 0.30.

The average structural coefficient of 0.30 (modulus of 300,000 psi), along with the subgrade resilient modulus of 6,600 psi were used as inputs into the pavement section analysis. Recently, the State of Colorado has been fairly dry with regard to precipitation. The resilient modulus of subgrade is significantly decreased by an increase in moisture content.

The existing structural number and the resilient modulus of the subgrade materials determined from the NDT results were used to solve the AASHTO pavement design equation in order to estimate the performance of the pavement when subjected to the proposed 18-kip equivalent single axle loadings (ESAL) throughout the next six years. The pavement sections were analyzed using DARWIN™. A pavement design program developed in conjunction with AASHTO, DARWIN™ performs a structural analysis of a pavement section with respect to the input parameters and solves the 1993 AASHTO design equation. In addition to the previously mentioned inputs for the structural coefficient of the existing asphalt and the resilient modulus of the subgrade, the user must input the initial and terminal serviceability, the reliability level, the standard deviation, and the design ESALs. For purposes of conservatively evaluating the existing road with respect to the proposed construction, the following additional input parameters were used: An initial serviceability of 3.0, a terminal serviceability of 2.0, a reliability of 80 percent, and an 18-kip ESAL loading of 80,000. The traffic loading was calculated using the client-provided ADT of 1500 for six years, which consisted of 88.5% automobiles (at a load factor of 0.004), 1.5% buses and trucks (at a load factor of 1.0), 10% recreational vehicles (at a load factor of 0.2), and an additional load of 8,700 properly loaded semi tractor trailers (at a load factor of 2.2) resulting from the removal of 100,000 m^3 of excavated material from the "optimum" cut of the existing slope.

Lastly, based on our review of the information prepared by the Central Federal Lands Highway Division, a drainage coefficient of 1.0 was used in the analysis. Thickness information also provided by CFLHD was used in the analysis. As shown, the asphalt and base course thickness' used in the design were the lowest obtained results from the subsurface investigation that was performed by CFLHD. The structural coefficient used for the base course was 0.10.

Conservative, professional judgment was exercised in the selection of the above parameters. However, the parameters selected indicate specific performance of the pavement sections. It is important that the client review the design parameters used for this analysis. If any of these parameters are not consistent with the client's expectation of pavement performance, we should be advised so that additional analysis may be performed.

RESULTS AND CONCLUSIONS

The following are the general structural characteristics of the pavement section and underlying subgrade materials determined for the subject roadway alignment that was evaluated using nondestructive testing:

As indicated, the lowest average existing structural coefficient and a conservative subgrade resilient modulus calculated from the NDT testing were used to solve the AASHTO pavement design equation in order to evaluate the existing road with respect to the total anticipated loading through six years of typical use combined with the additional loading resulting from the proposed construction. Based on the data obtained, theoretical remaining 18-kip ESAL capacities should be sufficient to support the normal-use traffic and the additional traffic resulting from the removal of approximately 100,000 m^3 of material for the proposed construction.

Based on the existing structural coefficients that were obtained from the back calculation, along with the obtained in-situ base course and subgrade resilient moduli, it appears that the majority of the roadway will perform in an acceptable manner for the duration of the proposed 6-year usage.

There are areas that exhibit lower structural capacities that may experience distress resulting from imposed traffic loading over the next six years. This additional distress may or may not occur during the removal of the material from the proposed cut. Among these areas are the following: from approximately 6.0 km to 7.0 km (from the entrance of the Park), approximately 60% of the areas tested yielded an average asphalt modulus that was less than that required for the design; from 12.0 km from the Park entrance to the termination point of 14.75 km, approximately 50% yielded an average asphalt resilient modulus that was less than that required for the design. Alligator cracking and rutting was also observed at various locations throughout the alignment. Almost every section analyzed yielded an occasional resilient modulus that was less than that used for the evaluation. However, only the two sections identified above yielded an average resilient modulus over the entire section that was less than 300,000 psi. These areas along with those which exhibited alligator cracking and rutting may require additional maintenance during the remaining life of the pavement.

This report only addresses the structural capacity of the pavement sections at the areas tested. With the high frequency of testing, it is assumed that general trends have been identified with respect to the pavement section structural characteristics. However, it is possible that additional areas exist that will exhibit pavement distress that have not been identified in this report.

In addition, a large embankment constructed from saw dust exists within the roadway alignment from approximately 4.25 km to 4.70 km from the Park entrance. Calculated resilient modulus values of the pavement and subgrade were extremely high for this area and do not appear reliable. The data obtained at this location was not used in the pavement design, but is presented in the appendix for informational purposes only. During the testing, it was observed that the response

of the deflection sensors was delayed compared with all of the other areas tested. Additionally, it appears that the embankment has been creeping away from the existing hillside, as observed in the outward tilting guardrail. This area should be evaluated for stability by a professional engineer as soon as possible, and the results presented with respect to modulus values may not be accurate.

Additional Considerations: The performance of the pavement throughout the remaining life will be influenced by changes in the subgrade moisture content and the traffic loads, especially at areas where heavy trucks perform sharp turning motions. As in most mountainous regions, excessive runoff may occur from snowmelt or rain. This may result in soft and yielding subgrade areas and may require additional maintenance throughout the design life, especially if some of the seasons are subjected to more precipitation than usual. It is important that routine maintenance is performed to seal cracks, repair distressed areas and thin overlays may be required throughout the remaining life of this pavement structure in order to maintain acceptable performance of the pavement. Additionally, care should be taken during the proposed construction so that excessive turning motions of the construction equipment does not negatively impact the pavement.

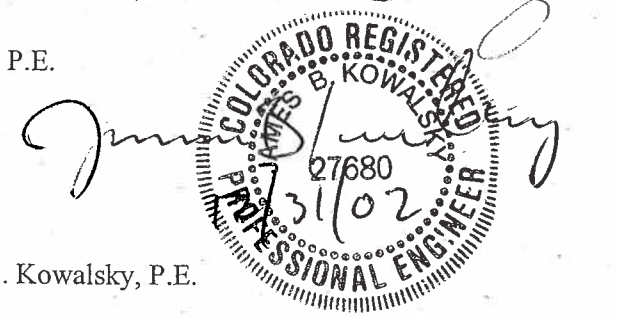
LIMITATIONS

This report has been prepared in accordance with generally accepted geotechnical and pavement engineering practices in this area for use by the client for design purposes. The conclusions and recommendations submitted in this report are based upon the data obtained from the NDT test results, our on-site observations and the information provided by the client. If the referenced data used in the analysis appears to be inconsistent with the subject project, this office should be advised at once so that reevaluation of the conclusions may be made.

Sincerely,

GROUND ENGINEERING CONSULTANTS, INC.

ANDREW SUEDKAMP, P.E.



Reviewed by James B. Kowalsky, P.E.

Appendix A

Input Parameters

The Deflection Analysis of Pavement Structures (DAPS) computer software, version 1.3, by Abatech, Inc. is a Windows-based software package specifically designed to provide back-calculation of the stiffness moduli (resilient modulus) of the layers within a pavement system.

Prior to the back-calculation procedure, the user must input information for each pavement layer. For this project, the following data was used:

Material Layer	Void Ratio	Density (kn/mcu)
Asphalt	0.3	24
Base Course	0.4	22
Subgrade	0.45*	20**

* This value was adjusted from 0.4 to 0.45 with only negligible changes to the resulting asphalt, base course, and subgrade modulus values.

** This value was adjusted from 20 to 22 kn/mcu with only negligible changes to the resulting asphalt, base course, and subgrade modulus values.

In addition, the user is allowed to change specific thicknesses from one pavement segment to the next, by selecting specific stations that were recorded during the testing. For example, the user can input that from station 0.0 km to 1.6 km the pavement thickness is 150 mm, the granular base is 230 mm and the subgrade is a thickness of 3 meters (underlain by bedrock), and then the section changes from station 1.6 km to 3.2 km to consist of 160 mm of asphalt, 200 mm of granular base, and 5 meters of subgrade (underlain by bedrock).

The layer thickness information was adjusted according to the information provided by CFLHD in the summary report prepared for this project. In order to account for possible deviations in the asphalt, base, and subgrade thickness, the back-calculation was performed using various combinations of each that were within 5 to 10 percent of the thickness information provided in the summary of the borings performed by CFLHD. This was performed to incorporate an additional Factor of Safety. The depth to bedrock (subgrade thickness) was adjusted from 1 meter below the existing pavement surface to over 10 meters below the existing pavement surface. The resulting modulus values using various combinations of thicknesses outlined above were not observed to change by more than 1 to 2 percent.

The pavement temperature was corrected to 68 degrees Fahrenheit for the analysis, which incorporated a correction factor of approximately 1.0 to 1.11.

Appendix B

Pavement Design Analysis

1993 AASHTO Pavement Design

DARWin Pavement Design and Analysis System

A Proprietary AASHTOWare Computer Software Product

Ground Engineering Consultants
7993 Dahlia Street
Commerce City, CO
USA

Flexible Structural Design Module

Mesa Verde Haul Road : Worst Case Analysis: At 12 km from Entrance to 13 km from Entrance

Flexible Structural Design

18-kip ESALs Over Initial Performance Period	80,000
Initial Serviceability	3
Terminal Serviceability	2
Reliability Level	80 %
Overall Standard Deviation	0.44
Roadbed Soil Resilient Modulus	6,600 psi
Stage Construction	1
Calculated Design Structural Number	2.29 in

Specified Layer Design

Layer	Material Description	Struct Coef. (Ai)	Drain Coef. (Mi)	Thickness (Di)(in)	Width (ft)	Calculated SN (in)
1	Asphalt	0.3	1	5	1	1.50
2	Base Course	0.1	1	8	1	0.80
Total	-	-	-	13.00	-	2.30

Pavement Design - ESAL Calculations

18-Kip Factors For Pavement Design High Average Method	
Vehicle Type	Pavement Type
	Flexible *(rate/1000)*
Automobiles	0.0004
Buses / Trucks	1
RV's	0.2
Semi Tractor/Trailer	2.2

Lane Configuration Chart	
# of Lanes	Configuration #
1	1.00
2	0.60
4	0.45
6	0.30
8	0.25

Daily Traffic Load (ADT): **1500** **vehicles**

Daily Traffic Loads			Pavement Type		Pavement Type		Lane Config #
	% (of Total ADT)	# (of Total ADT)	Flexible *(rate/1000)*	Rigid *(rate/1000)*	Flexible	Rigid	(from above chart)
Pas. Cars/Pickups	88.5	1327.5	0.0004	n/a	0.531	n/a	0.50
Buses / Trucks	1.5	22.5	1	n/a	22.5	n/a	0.50
RV's	10	150	0.2	n/a	30	n/a	0.50

ESALs from of 100,000 cubic meters, assuming 8700 trucks at a factor of 2.2: 19140 ESALs
ESALs from of 40,000 cubic meters, assuming 3500 trucks at a factor of 2.2: 7700 ESALs

Normal Traffic Load Flexible
Total Yearly Load (ESAL): 9,678
6 Year Load (ESAL): 58,069

Total Traffic for Large Haul: 77,209 ESALs
Total Traffic for Small Haul: 65,769 ESALs

1993 AASHTO Pavement Design

DARWin Pavement Design and Analysis System

A Proprietary AASHTOWare
Computer Software Product

Ground Engineering Consultants
7993 Dahlia Street
Commerce City, CO
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Flexible Structural Design Module

Mesa Verde Haul Road : Worst Case Analysis: At 12 km from Entrance to 13 km from Entrance

Flexible Structural Design

18-kip ESALs Over Initial Performance Period	80,000
Initial Serviceability	3
Terminal Serviceability	2
Reliability Level	80 %
Overall Standard Deviation	0.44
Roadbed Soil Resilient Modulus	12,000 psi
Stage Construction	1
Calculated Design Structural Number	1.78 in

Specified Layer Design

Layer	Material Description	Struct Coef. (Ai)	Drain Coef. (Mi)	Thickness (Di)(in)	Width (ft)	Calculated SN (in)
1	Asphalt	0.25	1	5	1	1.25
2	Base Course	0.08	1	8	1	0.64
Total	-	-	-	13.00	-	1.89

Appendix C

Average Asphalt Resilient Modulus Calculations

Station (km)	AC Modulus Lane 1 6000 lbs	AC Modulus Lane 1 9000 lbs	AC Modulus Lane 1 12000 lbs	Average Modulus (psi)	Avg. Dev. (%)	Station (km)	AC Modulus Lane 2 6000 lbs	AC Modulus Lane 2 9000 lbs	AC Modulus Lane 2 12000 lbs	Average Modulus (psi)	Avg. Dev. (%)
0.001	192,175	202,038	197,396	197,203	1.7	0.187	265,129	266,289	287,175	272,864	3.5
0.100	258,747	266,144	259,908	261,600	1.2	0.250	458,464	459,335	467,892	461,897	0.9
0.200	407,701	425,686	470,212	434,533	5.5	0.349	393,487	388,121	391,747	391,118	0.5
0.300	626,563	606,403	567,243	600,069	3.6	0.450	282,534	295,732	311,396	296,554	3.3
0.400	302,114	318,068	328,510	316,231	3.0	0.503	385,220	364,335	358,823	369,459	2.8
0.500	343,449	354,762	349,976	349,396	1.1	0.605	278,037	257,297	257,442	264,259	3.5
0.599	320,678	242,793	255,556	273,009	11.6	0.650	277,892	278,617	295,877	284,129	2.8
0.700	454,403	317,488	409,151	393,681	12.9	0.733	251,350	253,091	259,763	254,735	1.3
0.800	507,052	539,395	498,205	514,884	3.2	0.824	352,442	343,449	356,793	350,895	1.4
0.901	698,792	690,090	732,876	707,252	2.4	0.848	232,495	219,152	221,328	224,325	2.4
						0.951	251,931	258,312	265,564	258,602	1.8
From 0 to 1 km, Average Modulus = 356,033 psi						Correlated Average Structural Number = 0.32					
Removing 2 Highest Readings, Average Modulus = 327,070 psi											
1.050	427,571	400,739	398,274	408,861	3.1	1.049	480,800	505,892	530,548	505,747	3.3
1.099	436,854	298,633	333,877	356,454	15.0	1.099	349,396	346,640	351,571	349,203	0.5
1.200	555,059	564,777	580,006	566,614	1.6	1.124	270,785	275,282	265,999	270,689	1.2
1.300	895,173	813,227	847,165	851,855	3.4	1.186	183,908	179,267	282,098	215,091	20.8
1.401	351,717	344,320	351,426	349,154	0.9	1.249	325,320	325,175	335,762	328,752	1.4
1.517	264,114	259,908	481,815	335,279	29.1	1.349	284,564	287,900	287,030	286,498	0.4
1.554	382,755	410,747	413,067	402,190	3.2	1.450	223,358	234,961	272,816	243,712	8.0
1.601	358,243	344,030	365,060	355,778	2.2	1.550	241,778	243,083	274,992	253,284	5.7
1.625	428,151	371,152	395,518	398,274	5.0	1.550	250,190	260,488	300,808	270,495	7.5
1.715	426,121	450,197	447,441	441,253	2.3	1.623	342,579	333,442	345,480	340,500	1.4
1.750	328,220	323,144	308,350	319,905	2.4	1.650	217,121	223,213	229,450	223,261	1.8
1.801	282,679	280,503	251,060	271,414	5.0	1.750	641,792	706,189	739,112	695,698	5.2
1.851	253,236	286,014	290,075	276,442	5.6	1.824	270,205	270,350	280,648	273,735	1.7
1.900	459,625	493,418	516,044	489,696	4.1	1.850	279,053	286,014	289,495	284,854	1.4
						1.950	343,159	360,854	398,999	367,671	5.7
From 1 to 2 km, Average Modulus = 370,081 psi						Correlated Average Structural Number = 0.32					
Removing 2 Highest Readings, Average Modulus = 354,730 psi											
2.000	587,838	595,380	594,655	592,624	0.5	2.050	394,503	378,839	383,770	385,704	1.5
2.100	300,518	341,564	374,342	338,808	7.5	2.149	1,446,026	1,393,813	1,346,385	1,395,408	2.4
2.202	1,424,416	1,477,209	591,464	1,164,363	32.8	2.249	421,190	456,289	523,876	467,118	8.1
2.300	427,281	322,854	345,045	365,060	11.4	2.348	722,143	731,860	822,799	758,934	5.6
2.327	351,136	363,174	386,090	366,800	3.5	2.423	319,373	308,060	300,228	309,220	2.2
2.400	449,327	477,609	549,113	492,016	7.7	2.449	434,533	486,457	529,098	483,362	6.7
2.425	547,227	469,487	583,922	533,545	8.0	2.550	486,166	428,151	464,556	459,625	4.6
2.500	290,075	280,068	349,541	306,561	9.3	2.624	705,319	741,288	714,891	720,499	1.9
2.524	342,434	214,946	268,175	275,185	16.3	2.649	403,350	423,365	417,709	414,808	1.8
2.600	695,746	954,493	1,267,630	972,623	20.2	2.749	345,190	356,503	396,388	366,027	5.5
2.700	792,921	918,524	891,547	867,664	5.7	2.850	255,266	260,488	268,320	261,358	1.8
2.726	1,491,278	1,421,515	1,431,813	1,448,202	2.0	2.950	454,548	464,701	437,579	452,276	2.2
2.751	2,288,986	2,393,848	2,331,772	2,338,202	1.6						
2.801	1,311,721	1,283,439	1,170,310	1,255,157	4.5						
2.851	976,394	1,085,027	973,928	1,011,783	4.8						
2.901	1,451,393	1,430,362	1,401,210	1,427,655	1.2						
2.951	1,631,384	1,790,056	1,845,750	1,755,730	4.7						
From 2 to 3 km, Average Modulus = 785,226 psi						Correlated Average Structural Number = 0.42					
Removing 2 Highest Readings, Average Modulus = 693,217 psi											
3.000	1,772,796	1,545,667	1,564,957	1,627,807	5.9	3.050	392,472	414,083	451,357	419,304	5.1
3.097	413,213	403,060	368,251	394,841	4.5	3.150	931,722	958,409	969,142	953,091	1.5
3.201	579,281	678,487	765,364	674,377	9.4	3.249	260,053	244,679	264,114	256,282	3.0
3.301	393,197	429,167	455,999	426,121	5.2	3.345	1,098,226	967,837	959,715	1,008,592	5.9
3.400	538,525	662,822	684,868	628,739	9.6	3.448	666,884	646,578	666,448	659,970	1.4
3.502	391,312	294,282	303,274	329,622	12.5	3.549	598,861	571,594	587,838	586,097	1.6
3.601	544,907	542,876	550,708	546,164	0.6	3.649	526,922	502,411	514,449	514,594	1.6
3.625	501,250	531,418	510,388	514,352	2.2	3.750	609,884	590,594	605,533	602,003	1.3
3.700	1,024,692	955,654	949,127	976,491	3.3	3.849	703,868	695,746	756,227	718,614	3.5
3.801	624,387	585,372	617,426	609,062	2.6	3.849	1,089,669	1,306,065	1,362,049	1,252,594	8.7
3.901	544,182	556,510	539,685	546,792	1.2						
From 3 to 4 km, Average Modulus = 678,358 psi						Correlated Average Structural Number = 0.40					
Removing 2 Highest Readings, Average Modulus = 601,125 psi											

Station (km)	AC Modulus Lane 1 6000 lbs	AC Modulus Lane 1 9000 lbs	AC Modulus Lane 1 12000 lbs	Average Modulus (psi)	Avg. Dev. (%)	Station (km)	AC Modulus Lane 2 6000 lbs	AC Modulus Lane 2 9000 lbs	AC Modulus Lane 2 12000 lbs	Average Modulus (psi)	Avg. Dev. (%)
4.005	346,350	341,709	257,442	315,167	12.2	4.049	398,274	457,884	459,335	438,497	6.1
4.200	218,717	225,969	253,236	232,641	5.9	4.149	1,569,743	1,428,042	1,497,370	1,498,385	3.2
4.209	286,450	302,694	310,671	299,938	3.0	4.249	489,067	481,670	462,960	477,899	2.1
4.225	610,174	781,463	804,814	732,151	11.1	4.350	525,617	482,250	498,930	502,266	3.1
4.300	744,334	777,402	1,192,210	904,649	21.2	4.360	997,715	970,157	977,844	981,905	1.1
4.400	527,212	550,998	513,724	530,645	2.6	4.370	582,327	379,854	853,257	605,146	27.3
4.501	257,587	271,946	329,816	286,450	10.1	4.380	748,830	802,784	944,631	832,082	9.0
4.600	796,692	762,753	741,723	767,056	2.6	4.380	943,616	961,890	1,172,485	1,025,997	9.5
4.708	460,495	406,541	377,243	414,760	7.4	4.400	1,200,187	1,060,371	1,191,050	1,150,536	5.2
4.800	231,335	246,274	288,915	255,508	8.7	4.409	1,323,759	1,251,821	2,614,015	1,729,865	34.1
4.900	628,158	584,937	545,777	586,291	4.8	4.419	500,815	599,876	561,151	553,947	6.4
						4.427	1,356,683	1,305,485	1,349,721	1,337,296	1.6
						4.439	1,643,713	1,178,142	1,200,912	1,340,922	15.1
						4.450	619,311	550,708	790,746	653,588	14.0
						4.460	502,266	531,273	796,402	609,980	20.4
						4.470	1,235,286	2,060,841	2,364,260	1,886,796	23.0
						4.482	886,616	838,028	1,084,302	936,315	10.5
						4.550	177,381	188,404	209,144	191,643	6.1
						4.649	603,212	637,296	643,823	628,110	2.6
						4.749	431,922	412,342	437,289	427,184	2.3
						4.850	939,700	876,753	789,440	868,631	6.1
						4.950	477,899	447,731	467,457	464,362	2.4
From 4 to 5 km, Average Modulus = 741,412 psi						Correlated Average Structural Number = 0.41					
Removing 2 Highest Readings, Average Modulus = 709,801 psi											
5.002	1,068,638	997,425	963,486	1,009,849	3.9	5.049	759,563	726,059	681,967	722,530	3.7
5.100	649,769	618,006	608,868	625,548	2.6	5.150	880,524	890,822	915,043	895,463	1.5
5.200	184,633	197,977	217,992	200,200	5.9	5.241	1,139,271	1,097,936	1,142,897	1,126,701	1.7
5.301	401,609	403,495	388,991	398,032	1.5	5.350	535,769	559,846	564,487	553,367	2.1
5.401	231,915	224,228	227,709	227,951	1.2	5.350	470,647	458,899	482,250	470,599	1.7
5.514	239,747	259,618	283,984	261,116	5.8	5.449	318,068	312,701	319,808	316,859	0.9
5.526	339,823	348,526	328,656	339,002	2.0	5.500	202,763	204,213	161,717	189,564	9.8
5.601	274,847	288,770	314,587	292,735	5.0	5.544	575,365	614,525	642,807	610,899	3.9
5.699	236,121	241,778	234,671	237,523	1.2	5.646	427,281	412,777	424,235	421,431	1.4
5.801	216,831	225,389	236,702	226,307	3.1	5.750	172,885	178,106	191,740	180,910	4.0
5.826	167,229	185,648	204,068	185,648	6.6	5.816	285,434	292,106	323,724	300,422	5.2
5.900	280,503	280,358	295,442	285,434	2.3	5.950	331,411	362,449	397,984	363,948	6.2
From 5 to 6 km, Average Modulus = 435,085 psi						Correlated Average Structural Number = 0.34					
Removing 2 Highest Readings, Average Modulus = 381,148 psi											
6.000	402,190	413,358	422,495	412,681	1.7	6.050	258,457	317,343	333,442	303,081	9.8
6.100	280,503	279,488	307,045	289,012	4.2	6.100	248,740	248,015	272,671	256,475	4.2
6.201	241,343	241,198	248,015	243,518	1.2	6.149	222,633	230,900	253,236	235,590	5.0
6.226	263,534	281,953	293,266	279,584	3.8	6.250	254,396	285,579	281,953	273,976	4.8
6.278	176,946	182,457	203,343	187,582	5.6	6.350	312,266	323,289	314,297	316,617	1.4
6.304	255,847	260,923	284,564	267,111	4.4	6.400	251,205	249,900	243,663	248,256	1.2
6.355	360,854	380,144	373,472	371,490	1.9	6.450	232,641	270,930	287,900	263,824	7.9
6.400	314,587	317,488	323,724	318,600	1.1	6.466	192,610	203,343	242,648	212,867	9.3
6.500	321,404	311,831	320,823	318,019	1.3	6.500	371,152	303,419	283,984	319,518	10.8
6.500	248,885	242,213	260,923	250,674	2.7	6.524	239,022	203,778	221,618	221,473	5.3
6.550	251,640	252,366	260,343	254,783	1.5	6.550	197,251	232,495	327,930	252,559	19.9
6.600	313,136	302,404	333,007	316,182	3.5	6.650	295,877	253,091	297,182	282,050	6.8
6.701	243,953	256,137	281,953	260,681	5.4	6.750	258,747	253,961	243,083	251,931	2.3
6.750	288,045	276,152	281,518	281,905	1.5	6.848	312,411	320,388	335,037	322,612	2.6
6.800	439,464	472,968	475,144	462,525	3.3	6.950	370,426	364,335	355,487	363,416	1.5
6.901	233,801	248,160	312,411	264,791	12.0						
From 6 to 7 km, Average Modulus = 287,206 psi						Correlated Average Structural Number = 0.30					
Removing 2 Highest Readings, Average Modulus = 276,834 psi											
7.000	421,625	430,472	456,434	436,177	3.1	7.050	292,396	258,747	249,755	266,966	6.4
7.102	350,266	353,747	342,724	348,912	1.2	7.098	401,464	384,060	375,503	387,009	2.5
7.200	332,281	338,518	383,625	351,475	6.1	7.149	538,525	526,777	504,296	523,199	2.4
7.300	475,434	522,716	502,846	500,332	3.3	7.201	239,602	279,198	310,961	276,587	8.9
7.401	629,174	650,929	510,678	596,927	9.6	7.349	300,518	279,198	292,541	290,752	2.6
7.499	598,426	417,709	460,060	492,065	14.4	7.449	318,358	339,823	334,602	330,928	2.5
7.568	3,675,401	3,475,539	3,329,776	3,493,572	3.5	7.454	322,709	321,839	323,869	322,806	0.2
						7.617	391,457	413,793	417,999	407,749	2.7
From 7 to 8 km, Average Modulus = 601,697 psi						Correlated Average Structural Number = 0.38					
Removing 2 Highest Readings, Average Modulus = 379,612 psi											

Station (km)	AC Modulus Lane 1 6000 lbs	AC Modulus Lane 1 9000 lbs	AC Modulus Lane 1 12000 lbs	Average Modulus (psi)	Avg. Dev. (%)	Station (km)	AC Modulus Lane 2 6000 lbs	AC Modulus Lane 2 9000 lbs	AC Modulus Lane 2 12000 lbs	Average Modulus (psi)	Avg. Dev. (%)
8.029	633,090	616,265	562,021	603,792	4.6	8.070	817,868	844,410	801,043	821,107	1.9
8.107	380,289	384,495	769,280	511,355	33.6	8.121	257,732	264,404	265,129	262,422	1.2
8.201	370,281	380,434	420,609	390,442	5.2	8.244	425,396	396,533	405,235	409,055	2.7
8.250	531,128	501,831	520,540	517,833	2.1	8.350	346,785	342,579	349,976	346,447	0.7
8.300	366,655	325,755	318,793	337,068	5.9	8.449	356,648	364,770	368,831	363,416	1.2
8.351	238,297	266,869	327,785	277,651	12.0	8.549	357,953	336,052	337,503	343,836	2.7
8.400	272,091	298,633	550,563	373,762	31.5	8.649	357,228	363,320	358,968	359,839	0.6
8.500	404,510	412,487	435,113	417,370	2.8	8.722	405,235	409,587	431,052	415,291	2.5
8.600	473,113	468,617	449,617	463,782	2.0	8.750	331,701	355,923	374,632	354,085	4.2
8.701	422,060	421,480	386,235	409,925	3.9	8.825	344,900	353,747	356,503	351,717	1.3
8.802	674,716	663,403	612,784	650,301	3.8	8.849	325,900	327,785	319,953	324,546	0.9
8.900	302,114	321,839	369,411	331,121	7.7	8.949	283,984	288,335	306,755	293,025	3.1
From 8 to 9 km, Average Modulus =				413,716	psi	Correlated Average Structural Number =				0.34	
Removing 2 Highest Readings, Average Modulus =				384,444	psi						
9.000	538,525	507,487	382,900	476,304	13.1	9.050	299,068	300,808	311,396	303,757	1.7
9.125	527,647	549,983	507,777	528,469	2.7	9.150	416,113	439,464	444,686	433,421	2.7
9.199	673,990	650,494	630,479	651,655	2.3	9.250	378,258	362,884	362,739	367,961	1.9
9.301	790,891	770,731	754,921	772,181	1.6	9.349	423,510	428,296	443,525	431,777	1.8
9.346	179,412	145,763	218,717	181,297	13.8	9.449	337,068	351,281	366,655	351,668	2.8
9.401	384,640	451,938	448,312	428,296	6.8	9.549	516,334	534,609	540,991	530,645	1.8
9.500	480,510	349,686	369,121	399,772	13.5	9.647	376,808	384,495	401,319	387,541	2.4
9.601	526,487	316,907	336,343	393,246	22.6	9.691	291,961	307,045	326,045	308,350	3.8
9.700	398,564	411,472	463,831	424,622	6.2	9.849	344,900	347,655	326,045	339,533	2.6
9.826	300,953	299,793	344,175	314,974	6.2	9.949	353,747	332,572	348,526	344,948	2.4
9.900	232,931	250,480	282,243	255,218	7.1						
From 9 to 10 km, Average Modulus =				410,745	psi	Correlated Average Structural Number =				0.33	
Removing 2 Highest Readings, Average Modulus =				415,414	psi						
10.001	364,770	383,770	379,274	375,938	2.0	10.048	521,846	496,319	475,289	497,818	3.2
10.101	247,869	252,511	339,388	279,923	14.2	10.149	369,121	360,709	371,732	367,187	1.2
10.150	203,343	231,625	281,083	238,684	11.8	10.249	162,732	161,862	169,549	164,715	2.0
10.200	372,892	361,724	361,869	365,495	1.3	10.315	326,915	314,587	313,427	318,309	1.8
10.299	277,457	245,839	256,862	260,053	4.5	10.448	275,572	267,885	293,991	279,149	3.5
10.401	381,014	347,800	299,793	342,869	8.4	10.544	181,007	182,748	211,610	191,788	6.9
10.501	325,030	296,602	306,610	309,414	3.4	10.650	361,144	368,251	355,487	361,627	1.2
10.600	732,731	703,578	629,464	688,591	5.7	10.751	118,496	129,374	153,740	133,870	9.9
10.700	383,335	344,610	315,892	347,946	6.8	10.848	472,388	478,915	576,815	509,373	8.8
10.801	421,480	461,075	445,121	442,558	3.2	10.944		318,793	355,487	337,140	5.4
10.879	305,014	379,129	458,029	380,724	13.5						
From 10 to 11 km, Average Modulus =				342,532	psi	Correlated Average Structural Number =				0.31	
Removing 2 Highest Readings, Average Modulus =				315,537	psi						
11.000	377,243	347,800	354,472	359,839	3.2	11.150	277,602	384,640	409,877	357,373	14.9
11.101	583,342	424,961	317,923	442,075	21.3	11.250	251,350	259,327	270,785	260,488	2.6
11.201		191,595	212,190	201,893	5.1	11.337		302,549	282,969	292,759	3.3
11.301	310,816	409,006	407,556	375,793	11.5	11.449	383,335	376,663	392,617	384,205	1.5
11.401	295,732	266,434	248,305	270,157	6.3	11.550	142,427	154,610	246,129	181,055	24.0
11.500	213,351	170,564	172,305	185,407	10.0	11.650	174,480	227,709	250,045	217,412	13.2
11.600	179,557	141,702	138,656	153,305	11.4	11.655	324,885	300,663	333,587	319,712	4.0
11.700	539,395	404,510	364,335	436,080	15.8	11.850	206,679	207,114	214,946	209,580	1.7
11.800	242,503	300,228	319,663	287,465	10.4	11.950	587,983	616,265	618,731	607,660	2.2
11.903	262,228	260,633	253,091	258,651	1.4						
11.956	467,022	469,197	486,312	474,177	1.7						
From 11 to 12 km, Average Modulus =				313,754	psi	Correlated Average Structural Number =				0.31	
Removing 2 Highest Readings, Average Modulus =				288,514	psi						

Station (km)	AC Modulus Lane 1 6000 lbs	AC Modulus Lane 1 9000 lbs	AC Modulus Lane 1 12000 lbs	Average Modulus (psi)	Avg. Dev. (%)	Station (km)	AC Modulus Lane 2 6000 lbs	AC Modulus Lane 2 9000 lbs	AC Modulus Lane 2 12000 lbs	Average Modulus (psi)	Avg. Dev. (%)
12.000	336,197	328,510	322,419	329,042	1.4	12.048	159,832	161,427	221,328	180,862	14.9
12.101	368,251	327,350	250,915	315,505	13.6	12.150	96,450	124,442	139,236	120,043	13.1
12.150	214,221	365,495	415,533	331,750	23.6	12.250	226,984	204,503	216,831	216,106	3.6
12.200	415,388	411,907	438,739	422,011	2.6	12.349	131,694	156,786	169,549	152,676	9.2
12.301	288,335	244,244	191,885	241,488	13.7	12.451	116,900	152,145	161,427	143,491	12.4
12.399	244,534	211,610	233,076	229,740	5.3	12.549	147,213	200,732	235,106	194,351	16.2
12.440	300,953	243,808	223,358	256,040	11.7	12.648	133,580	134,450	195,366	154,465	17.7
12.475	201,022	151,855	140,687	164,521	14.8	12.719	166,938	166,503	179,412	170,951	3.3
12.500	474,709	407,556	443,670	441,978	5.2	12.850	231,480	233,946	250,915	238,780	3.4
12.600	357,518	322,709	211,175	297,134	19.3	12.943	277,312	321,549	355,197	318,019	8.5
12.701	491,823	444,251	430,762	455,612	5.3						
12.800	475,144	400,304	341,854	405,767	11.4						
12.905	376,083	469,197	599,296	481,525	16.3						
From 12 to 13 km, Average Modulus =				272,255	psi	Correlated Average Structural Number =				0.29	
Removing 2 Highest Readings, Average Modulus =				253,558	psi						
13.000	291,961	292,686	338,373	307,673	6.7	13.025	279,923	350,556	367,091	332,523	10.5
13.105	289,930	263,969	240,618	264,839	6.3	13.050	136,335	201,167	241,198	192,900	19.5
13.200	1,307,515	600,166	606,983	838,221	37.3	13.148	384,930	374,197	374,197	377,775	1.3
13.302	292,396	278,182	289,060	286,546	1.9	13.231	187,099	271,221	312,121	256,813	18.1
13.401	298,778	242,358	254,106	265,081	8.5	13.346	454,838	432,357	478,479	455,225	3.4
13.500	230,030	187,534	173,465	197,010	11.2	13.394	174,190	164,763	180,282	173,078	3.2
13.602	348,961	358,823	377,098	361,627	2.9	13.550	248,595	238,442	205,954	230,997	7.2
13.657	228,579	248,740	279,633	252,317	7.2	13.648	174,335	179,992	176,366	176,898	1.2
13.700	428,006	424,235	403,060	418,434	2.4	13.729	310,671	397,839	429,892	379,467	12.1
13.801	547,953	321,984	360,129	410,022	22.4	13.849	381,884	388,846	415,968	395,566	3.4
13.901	437,144	444,251	455,273	445,556	1.5	13.944	219,297	272,526	295,152	262,325	10.9
From 13 to 14 km, Average Modulus =				330,950	psi	Correlated Average Structural Number =				0.31	
Removing 2 Highest Readings, Average Modulus =				299,372	psi						
14.001	213,931	211,900	405,816	277,215	30.9	14.050	313,427	288,480	401,174	334,360	13.3
14.051	293,121	258,602	237,572	263,098	7.6	14.149	729,685	630,624	559,846	640,052	9.3
14.102	404,220	386,961	392,617	394,599	1.6	14.249	321,694	295,007	370,861	329,187	8.4
14.151	333,297	319,663	325,320	326,093	1.5	14.350	203,488	194,496	222,778	206,921	5.1
14.201	223,503	219,152	255,266	232,641	6.5	14.448	504,441	474,563	464,991	481,332	3.2
14.251	700,242	702,128	630,044	677,471	4.7	14.550	198,122	289,640	302,984	263,582	16.6
14.300	252,656	256,282	262,083	257,007	1.3	14.650	302,984	305,014	367,091	325,030	8.6
14.351	430,472	385,220	408,281	407,991	3.7	14.747	216,976	244,969	269,770	243,905	7.4
14.401	353,312	340,984	343,884	346,060	1.4	14.800	147,938	213,496	452,518	271,317	44.5
14.451	295,732	285,289	313,717	298,246	3.5						
14.500	443,380	434,388	434,533	437,434	0.9						
14.552	379,999	406,251	412,777	399,676	3.3						
14.605	325,755	324,014	428,006	359,258	12.8						
14.651	268,610	269,045	292,686	276,780	3.8						
14.701	264,839	267,160	274,556	268,852	1.4						
14.750	198,847	186,664	174,770	186,760	4.3						
From 14 to 14.75 km, Average Modulus =				340,195	psi	Correlated Average Structural Number =				0.31	
Removing 2 Highest Readings, Average Modulus =				312,493	psi						

Appendix D

Average Base Course and Subgrade Resilient Modulus Calculations

Station	6000 lbs Lane 1		9000 lbs Lane 1		12000 lbs Lane 1		Station	6000 lbs Lane 2		9000 lbs Lane 2		12000 lbs Lane 2	
(km)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)	(km)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)
0.001	15,084	17,405	15,664	17,114	15,809	16,969	0.187	17,840	17,405	16,824	16,824	17,695	16,824
0.100	22,916	20,885	22,336	20,450	23,931	19,870	0.250	6,672	33,359	6,817	32,343	7,107	32,488
0.200	34,664	27,847	32,633	28,137	28,863	27,412	0.349	12,618	33,939	11,023	32,198	10,733	31,038
0.300	7,542	24,221	6,817	23,641	6,962	22,916	0.450	33,794	20,160	33,939	19,580	35,389	18,565
0.400	16,389	32,488	14,069	33,069	13,634	31,618	0.503	10,008	19,435	9,718	17,840	9,863	16,534
0.500	11,748	23,351	10,298	22,336	10,008	22,046	0.605	6,962	20,015	6,382	18,565	5,366	18,565
0.599	7,107	18,275	8,267	17,550	7,687	17,695	0.650	12,473	19,580	10,298	19,000	9,572	19,145
0.700	6,382	22,481	12,473	21,466	10,443	22,481	0.733	11,023	18,420	10,153	17,840	9,282	17,405
0.800	14,359	13,634	13,343	13,634	17,550	11,748	0.824	7,977	27,412	7,107	26,107	6,382	26,542
0.901	7,832	29,443	7,832	29,733	8,122	30,168	0.848	2,176	14,504	2,031	13,489	1,885	13,634
							0.951	10,153	21,901	8,992	21,756	8,267	21,321
							From 0 to 1 km, Average Modulus =		12,814	psi			
							From 0 to 1 km, Average Subgrade Modulus =		22,124	psi			
1.050	10,153	36,840	12,038	36,404	13,343	34,809	1.049	8,122	43,366	7,977	44,091	7,977	45,397
1.099	7,832	27,267	19,435	22,916	19,000	22,626	1.099	10,443	23,351	9,427	22,771	9,718	22,191
1.200	10,733	40,466	10,733	40,756	11,168	40,466	1.124	6,672	9,572	5,076	9,572	5,221	8,267
1.300	2,901	35,534	2,756	35,244	2,321	40,756	1.186	4,786	13,489	4,061	12,908	3,191	10,443
1.401	4,786	21,030	5,076	19,290	4,641	20,160	1.249	13,779	15,664	13,489	14,504	14,359	13,343
1.517	9,137	15,229	8,702	14,794	3,626	18,130	1.349	15,084	22,046	13,343	21,901	13,053	21,176
1.554	12,763	17,985	8,992	18,565	8,702	17,259	1.450	5,656	31,328	5,366	31,038	4,496	37,710
1.601	10,733	14,504	9,863	13,489	7,977	13,489	1.550	6,527	21,756	5,947	21,176	4,931	22,771
1.625	17,259	18,710	20,160	18,565	18,420	18,420	1.550	5,656	21,756	5,076	21,611	4,351	23,351
1.715	3,916	14,214	3,046	14,794	2,901	14,939	1.623	11,023	20,160	11,313	18,565	10,733	17,550
1.750	7,832	20,595	6,962	18,855	8,122	17,114	1.650	2,611	12,038	2,321	12,618	2,176	11,603
1.801	14,214	15,954	15,229	15,374	18,565	14,939	1.750	68,458	27,847	58,740	24,656	55,694	24,656
1.851	8,702	17,405	6,817	18,710	7,977	16,244	1.824	7,542	18,275	6,962	16,969	5,947	16,679
1.900	6,092	15,954	4,496	17,695	3,626	19,435	1.850	13,634	10,878	11,748	10,443	11,458	10,298
							1.950	9,718	22,046	9,282	22,771	7,832	22,771
							From 1 to 2 km, Average Modulus =		10,491	psi			
							From 1 to 2 km, Average Subgrade Modulus =		21,302	psi			
2.000	2,031	21,901	1,595	23,496	1,450	25,092	2.050	11,168	20,015	10,878	18,420	10,588	18,710
2.100	19,435	18,130	16,679	17,695	13,634	17,985	2.149	7,687	16,534	10,443	13,924	15,084	12,763
2.202	7,687	30,313	7,542	31,183	54,244	21,901	2.249	53,664	19,000	48,007	17,405	40,175	17,550
2.300	17,550	10,298	19,000	13,634	19,145	12,038	2.348	51,924	45,687	44,237	42,496	39,015	45,252
2.327	13,343	26,832	10,588	25,382	10,008	24,656	2.423	8,267	13,924	8,412	11,748	7,977	10,443
2.400	76,000	38,725	80,351	37,130	75,420	37,130	2.449	26,687	12,763	23,206	12,618	20,595	12,763
2.425	22,191	23,206	30,893	22,191	27,847	21,756	2.550	75,275	51,198	82,817	46,557	84,847	45,107
2.500	3,046	11,313	2,611	11,458	2,466	12,618	2.624	29,588	20,305	26,832	21,176	32,924	21,756
2.524	3,336	23,061	7,832	15,664	5,947	17,405	2.649	4,061	10,153	2,611	12,473	3,336	9,863
2.600	313,136	6,382	208,419	30,023	171,580	29,588	2.749	12,473	19,000	12,473	19,000	12,473	19,435
2.700	149,099	23,641	111,099	24,076	105,152	23,061	2.850	4,931	20,885	5,076	20,305	5,076	19,580
2.726	20,740	20,450	19,145	18,565	23,641	17,114	2.950	11,748	14,939	10,878	14,214	12,618	12,618
2.751	41,191	14,069	38,000	13,634	47,427	13,053							
2.801	32,779	16,969	43,511	15,519	49,168	15,809							
2.851	15,229	13,924	11,023	15,954	19,145	14,504							
2.901	15,229	10,153	14,214	10,298	21,756	9,718							
2.951	34,954	12,328	31,908	12,183	32,343	12,473							
							From 2 to 3 km, Average Modulus =		34,366	psi			
							From 2 to 3 km, Average Subgrade Modulus =		20,329	psi			
3.000	68,458	15,374	97,320	12,908	92,969	13,343	3.050	10,878	23,931	10,298	25,527	10,588	25,382
3.097	9,572	14,939	10,588	13,489	13,924	11,893	3.150	4,351	11,893	3,481	11,603	4,496	10,008
3.201	38,870	26,832	34,664	26,687	31,473	26,252	3.249	11,458	13,634	11,748	11,893	12,908	11,458
3.301	14,504	18,710	9,863	25,237	10,443	25,092	3.345	34,664	17,695	47,282	13,924	50,763	13,343
3.400	76,145	30,023	63,381	31,183	62,946	30,603	3.448	6,237	19,145	6,672	16,244	6,527	15,084
3.502	4,351	20,015	7,977	17,259	8,267	16,534	3.549	8,557	32,198	7,832	33,069	7,832	33,359
3.601	3,046	14,504	2,321	15,229	2,176	15,374	3.649	16,824	18,710	19,145	16,969	20,015	16,824
3.625	10,298	22,771	11,893	22,191	15,374	21,321	3.750	30,168	24,366	31,618	23,641	31,763	23,641
3.700	12,038	14,649	16,679	12,183	18,565	11,603	3.849	132,855	28,137	114,435	28,282	103,412	27,412
3.801	19,580	26,542	24,076	23,496	24,076	23,061	3.849	168,244	45,687	124,732	44,817	118,641	45,832
3.901	5,076	38,000	5,366	35,969	7,252	27,412							
							From 3 to 4 km, Average Modulus =		31,777	psi			
							From 3 to 4 km, Average Subgrade Modulus =		21,974	psi			

Station	6000 lbs Lane 1		9000 lbs Lane 1		12000 lbs Lane 1		Station	6000 lbs Lane 2		9000 lbs Lane 2		12000 lbs Lane 2	
(km)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)	(km)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)
4.005	7,542	24,221	6,962	23,786	15,954	18,710	4.049	10,008	10,298	8,267	9,863	10,298	8,122
4.200	14,939	41,916	15,519	41,336	14,504	40,901	4.149	21,321	16,389	21,901	14,649	20,305	14,649
4.209	21,176	11,603	17,405	10,878	16,679	10,443	4.249	32,779	31,473	27,122	28,572	25,237	27,267
4.225	37,130	14,939	26,832	15,954	26,832	15,519	4.350	79,191	30,168	72,519	27,557	71,794	25,527
4.300	9,137	10,878	8,267	11,313	1,450	56,565	4.360	20,450	33,359	17,840	32,924	18,130	32,198
4.400	5,656	22,916	5,221	23,206	6,382	18,130	4.370	550,708	9,137	1,482,721	5,802	421,770	6,962
4.501	20,015	19,435	20,595	17,114	17,114	17,259	4.380	286,595	7,397	325,465	5,947	293,701	5,511
4.600	14,794	29,443	19,290	26,397	21,030	25,092	4.380	297,617	8,412	362,739	6,382	317,778	6,092
4.708	12,618	20,595	14,504	19,000	19,435	17,259	4.400	63,962	4,641	74,259	4,496	76,290	4,206
4.800	16,389	22,046	14,794	20,885	14,214	19,870	4.409	365,060	9,572	423,945	7,832	367,381	6,382
4.900	16,824	23,351	21,030	21,901	25,672	19,000	4.419	532,434	11,313	544,327	9,863	649,334	7,832
							4.427	196,091	7,977	217,847	6,382	252,511	5,511
							4.439	173,175	8,847	260,198	6,962	267,305	6,672
							4.450	524,892	16,534	889,226	11,748	728,960	9,718
							4.460	455,128	15,809	681,097	10,298	493,128	10,443
							4.470	373,472	11,023	428,151	7,252	397,548	7,252
							4.482	391,747	11,458	537,655	7,397	413,213	7,832
							4.550	22,481	12,908	20,885	12,328	21,321	11,748
							4.649	27,412	25,962	22,626	26,832	24,221	26,252
							4.749	21,176	16,824	22,481	15,519	21,756	15,519
							4.850	54,244	20,450	70,053	18,855	86,588	19,290
							4.950	24,511	23,061	22,626	21,176	20,740	20,595
							From 4 to 5 km, Average Modulus =		178,318	psi			
							From 4 to 5 km, Average Subgrade Modulus =		17,840	psi			
5.002	26,832	20,595	34,664	19,435	43,366	18,855	5.049	14,069	20,885	13,343	18,130	16,099	16,969
5.100	38,290	37,420	36,404	34,519	42,641	34,809	5.150	23,931	18,420	27,122	17,405	25,817	17,114
5.200	27,557	25,962	26,397	24,656	25,817	25,092	5.241	100,221	47,282	98,191	42,496	96,305	41,626
5.301	9,282	27,992	11,168	28,427	14,069	27,557	5.350	30,893	35,389	27,992	33,504	27,267	33,939
5.401	20,160	21,466	20,595	19,870	21,030	19,290	5.350	26,542	31,908	27,267	28,717	25,527	28,427
5.514	25,237	19,435	24,366	19,000	23,351	18,565	5.449	15,664	30,893	15,229	29,153	16,244	27,702
5.526	17,985	21,176	16,824	20,740	21,176	19,000	5.500	15,374	13,343	15,809	13,053	20,885	12,328
5.601	19,725	27,847	23,351	27,847	22,916	29,298	5.544	15,809	19,290	13,053	19,435	13,343	18,855
5.699	20,595	13,489	22,481	12,473	23,931	11,603	5.646	13,053	45,977	15,374	40,030	17,695	39,305
5.801	2,321	15,954	2,031	15,664	2,031	14,794	5.750	13,489	18,130	13,343	16,389	13,924	15,954
5.826	3,336	20,885	2,756	23,641	2,466	23,931	5.816	17,695	35,244	16,534	33,069	14,649	32,633
5.900	12,908	25,237	12,038	24,221	12,473	23,641	5.950	18,130	24,801	16,824	23,931	14,794	24,076
							From 5 to 6 km, Average Modulus =		22,501	psi			
							From 5 to 6 km, Average Subgrade Modulus =		24,725	psi			
6.000	20,305	26,397	18,130	26,687	18,710	25,817	6.050	26,252	22,336	21,176	23,061	21,611	23,061
6.100	21,901	21,901	21,176	21,466	20,305	21,176	6.100	23,786	20,740	21,030	19,580	19,290	19,435
6.201	10,733	15,084	11,458	13,489	13,198	11,893	6.149	6,092	14,649	5,511	14,939	4,496	15,374
6.226	14,939	17,840	13,343	17,840	14,069	16,824	6.250	13,779	18,855	11,893	18,710	13,053	17,550
6.278	10,588	9,427	12,038	8,702	10,733	8,412	6.350	14,649	18,855	17,840	17,550	18,855	17,259
6.304	21,756	17,259	21,030	16,969	22,626	16,969	6.400	12,763	13,634	14,359	12,908	16,534	12,038
6.355	12,473	15,519	10,878	15,809	11,603	15,229	6.450	13,924	15,954	11,893	15,374	12,618	15,519
6.400	31,473	19,145	31,473	18,710	33,214	18,855	6.466	5,366	15,374	4,931	16,534	4,061	18,275
6.500	9,137	15,229	8,702	14,214	8,557	14,359	6.500	5,947	12,763	8,122	12,908	8,557	12,038
6.500	8,702	10,733	8,557	10,153	7,977	9,427	6.524	6,817	14,939	7,977	15,664	6,962	15,954
6.550	12,183	18,275	12,618	17,114	13,634	15,664	6.550	4,641	13,053	3,336	14,069	2,176	18,420
6.600	19,145	32,343	18,565	31,763	19,580	32,053	6.650	14,504	25,962	17,550	27,992	18,130	28,572
6.701	22,481	12,908	20,595	12,908	20,015	12,908	6.750	11,603	17,114	12,183	16,824	12,763	15,809
6.750	23,206	21,756	23,931	19,870	25,092	19,725	6.848	18,130	22,191	17,405	21,321	17,840	21,030
6.800	22,336	27,122	22,046	27,847	23,206	26,832	6.950	22,916	26,542	24,511	26,687	26,397	26,397
6.901	26,252	24,946	25,382	23,931	24,366	23,786							
							From 6 to 7 km, Average Modulus =		16,941	psi			
							From 6 to 7 km, Average Subgrade Modulus =		18,463	psi			

Station	6000 lbs Lane 1		9000 lbs Lane 1		12000 lbs Lane 1		Station	6000 lbs Lane 2		9000 lbs Lane 2		12000 lbs Lane 2	
(km)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)	(km)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)
7.000	31,763	20,740	31,763	21,176	34,809	21,611	7.050	29,878	15,664	30,168	16,389	32,198	15,954
7.102	11,748	14,359	12,618	13,634	14,069	13,198	7.098	17,550	28,137	18,565	27,122	20,885	25,962
7.200	11,458	25,962	11,023	24,076	11,603	23,786	7.149	23,351	20,305	22,771	21,756	26,252	20,740
7.300	7,687	19,290	7,542	20,305	9,718	16,969	7.201	16,099	25,237	13,779	24,801	12,763	24,656
7.401	5,511	17,550	5,076	18,130	11,748	14,649	7.349	16,244	17,114	16,679	15,519	17,259	15,229
7.499	6,817	18,855	14,214	14,504	12,183	14,939	7.449	14,939	18,130	14,649	18,420	17,259	17,259
7.568	372,747	2,321	352,877	3,626	298,778	2,901	7.454	6,237	19,290	5,366	19,580	6,237	15,954
							7.617	15,809	14,649	14,359	14,794	15,229	14,359
							From 7 to 8 km, Average Modulus =			16,092	psi		
							From 7 to 8 km, Average Subgrade Modulus =			17,991	psi		
8.029	4,931	20,305	4,786	21,321	5,076	19,435	8.070	31,618	19,145	30,893	18,565	36,114	17,840
8.107	7,107	14,649	6,092	13,924	2,611	20,305	8.121	26,397	18,855	26,977	19,145	27,847	18,710
8.201	30,748	17,695	29,733	17,259	28,717	16,969	8.244	16,679	20,885	17,695	20,015	19,000	20,305
8.250	19,870	23,351	20,160	22,046	21,321	21,901	8.350	19,870	20,160	19,870	19,725	21,030	19,290
8.300	10,298	10,008	12,328	8,992	14,214	8,122	8.449	10,588	19,000	10,008	19,435	10,878	19,435
8.351	19,870	21,176	20,305	22,626	19,725	23,061	8.549	13,634	20,885	14,214	19,725	15,084	19,725
8.400	11,748	15,664	8,122	28,427	5,221	36,695	8.649	15,954	15,519	15,519	14,939	17,405	13,779
8.500	28,717	23,061	26,832	23,641	29,878	23,496	8.722	23,206	19,725	23,061	19,290	23,206	19,580
8.600	11,313	16,824	9,572	17,259	11,168	15,374	8.750	21,030	17,259	18,855	17,550	19,290	17,405
8.701	9,427	12,908	8,992	12,908	11,313	11,168	8.825	16,389	20,450	15,084	20,160	14,649	19,870
8.802	11,168	17,405	10,878	17,550	13,053	16,824	8.849	13,053	16,824	12,763	15,809	14,939	14,504
8.900	32,779	16,824	30,893	16,679	30,023	16,389	8.949	15,664	15,664	14,504	15,374	13,924	15,519
							From 8 to 9 km, Average Modulus =			17,443	psi		
							From 8 to 9 km, Average Subgrade Modulus =			18,365	psi		
9.000	6,237	13,634	6,817	12,473	15,954	9,863	9.050	10,878	17,259	9,718	16,534	9,863	15,954
9.125	15,664	24,946	14,504	24,511	17,259	24,076	9.150	40,175	26,107	37,420	26,252	37,855	26,252
9.199	13,924	32,633	14,649	30,168	18,420	28,137	9.250	10,443	21,466	10,298	20,160	10,443	19,580
9.301	19,290	17,985	17,840	17,550	21,321	17,259	9.349	41,481	24,076	41,046	24,076	41,191	24,511
9.346	11,893	19,145	12,328	18,275	9,863	19,725	9.449	40,611	22,481	40,320	23,641	39,740	23,641
9.401	29,298	14,649	23,641	14,504	24,801	13,924	9.549	31,473	35,824	29,008	35,389	29,443	34,809
9.500	23,206	34,084	31,473	33,939	33,214	33,649	9.647	11,458	25,817	10,298	26,832	10,008	26,107
9.601	4,931	15,519	16,244	10,733	17,259	9,863	9.691	36,404	19,435	33,649	18,710	31,328	18,130
9.700	28,137	28,572	28,137	27,122	26,977	27,122	9.849	56,855	28,137	57,870	27,122	62,221	27,267
9.826	46,412	33,214	48,153	31,908	47,572	32,198	9.949	14,214	23,061	13,343	21,756	12,908	21,611
9.900	11,023	23,351	11,023	22,481	10,443	21,611							
							From 9 to 10 km, Average Modulus =			24,442	psi		
							From 9 to 10 km, Average Subgrade Modulus =			23,533	psi		
10.001	21,030	21,611	22,771	20,885	26,977	19,725	10.048	14,504	16,244	15,229	14,504	16,969	13,779
10.101	4,641	13,924	4,206	13,779	3,046	15,229	10.149	27,992	18,565	26,832	17,840	27,122	17,405
10.150	24,221	32,053	21,030	31,183	19,145	30,458	10.249	33,794	17,985	30,458	17,114	29,733	16,824
10.200	8,702	14,069	8,992	13,198	10,588	12,473	10.315	48,878	25,237	49,748	25,237	51,924	24,801
10.299	48,153	25,527	51,633	24,221	53,374	23,641	10.448	51,633	29,733	49,023	27,847	44,817	28,717
10.401	45,977	26,977	49,168	25,672	53,664	25,382	10.544	51,343	20,015	46,702	20,015	46,992	20,885
10.501	66,427	25,672	73,534	24,801	74,259	25,382	10.650	24,366	18,130	20,885	17,695	22,626	16,824
10.600	17,695	17,405	20,595	16,389	29,733	15,809	10.751	74,839	27,557	68,893	27,557	67,443	26,832
10.700	67,152	23,351	61,061	22,916	72,084	22,771	10.848	115,595	15,954	104,427	15,664	93,984	16,679
10.801	72,664	11,458	57,870	12,908	69,763	10,298	10.944			87,023	48,153	85,427	47,282
10.879	38,580	37,565	35,534	35,099	30,748	35,824							
							From 10 to 11 km, Average Modulus =			43,455	psi		
							From 10 to 11 km, Average Subgrade Modulus =			22,238	psi		
11.000	13,924	22,191	19,290	19,290	23,351	18,855	11.050	101,236	14,214	60,481	25,382	59,030	25,527
11.000	64,687	17,985	72,954	16,969	72,664	17,405	11.150	156,496	13,198	88,618	32,924	85,137	32,053
11.101	32,633	13,343	42,206	11,893	55,114	11,313	11.250	28,427	19,290	23,931	20,305	24,946	20,305
11.201			82,381	44,382	79,336	42,496	11.337			32,633	46,412	35,969	44,672
11.301	37,275	24,076	28,717	23,206	30,168	22,191	11.449	24,946	17,840	23,351	16,969	26,107	15,809
11.401	14,069	24,801	14,649	21,611	16,824	20,740	11.550	23,931	11,168	22,916	11,023	17,114	10,878
11.500	49,458	19,435	56,855	17,985	58,595	16,969	11.650	72,374	10,153	42,496	21,321	42,206	20,885
11.600	29,298	20,595	33,214	17,985	36,404	16,969	11.655	24,076	16,244	25,527	14,214	23,496	13,634
11.700	16,389	25,817	21,756	26,252	26,977	23,786	11.850	22,481	17,114	21,901	14,649	21,321	13,779
11.800	41,771	24,221	34,519	24,221	31,473	23,061	11.950	23,496	11,603	18,130	11,748	17,259	11,168
11.903	7,542	10,588	7,107	10,008	7,687	9,282							
11.956	19,870	19,145	20,450	18,130	21,466	18,275							
							From 11 to 12 km, Average Modulus =			37,674	psi		
							From 11 to 12 km, Average Subgrade Modulus =			19,843	psi		

Station	6000 lbs Lane 1		9000 lbs Lane 1		12000 lbs Lane 1		Station	6000 lbs Lane 2		9000 lbs Lane 2		12000 lbs Lane 2	
(km)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)	(km)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)	Base (psi)	Subgrade (psi)
12.000	8,992	11,313	8,412	10,443	8,412	9,427	12.048	107,328	15,519	103,412	14,649	61,641	28,427
12.101	6,817	11,023	8,557	10,298	12,328	8,702	12.150	55,549	10,878	36,695	19,145	35,824	18,855
12.150	24,511	13,489	14,214	13,634	12,328	13,343	12.250	25,817	14,649	25,962	13,198	25,672	12,473
12.200	54,679	37,130	47,137	36,404	49,313	35,534	12.349	43,946	18,565	29,878	27,412	29,878	27,122
12.301	12,038	37,275	14,504	32,053	20,450	28,863	12.451	79,191	13,779	48,007	24,366	49,168	23,931
12.399	3,916	11,748	3,916	10,298	4,206	10,008	12.549	47,862	8,702	26,977	17,695	25,817	17,840
12.440	10,008	18,420	12,763	14,649	16,099	13,343	12.648	76,000	16,099	67,152	20,595	45,977	31,908
12.475	9,427	13,053	11,893	11,458	12,908	10,588	12.719	15,809	18,275	14,359	18,420	13,779	18,855
12.500	20,305	12,763	21,901	10,878	21,611	10,588	12.850	7,687	17,114	6,672	16,534	5,947	16,244
12.600	18,710	23,061	20,305	23,496	32,343	23,786	12.943	22,336	26,252	12,183	42,786	12,183	44,817
12.701	11,893	25,527	13,343	25,672	15,519	24,656							
12.800	4,206	18,855	5,511	14,649	8,702	12,038							
12.905	22,626	15,229	17,550	15,084	10,878	16,389							
From 12 to 13 km, Average Modulus =								25,970	psi				
From 12 to 13 km, Average Subgrade Modulus =								18,989	psi				
13.000	12,473	15,664	11,168	14,794	9,282	15,374	13.025	86,878	15,229	45,107	24,656	45,687	24,221
13.105	5,511	13,634	6,962	11,168	10,008	10,153	13.050	79,046	19,145	48,588	25,527	46,847	24,366
13.200	21,321	19,290	70,488	17,405	69,473	16,679	13.148	3,191	11,893	2,611	12,763	3,481	11,313
13.302	11,748	27,267	12,473	24,801	12,763	23,351	13.231	111,679	11,313	55,404	20,450	55,694	19,870
13.401	18,565	16,969	24,221	15,809	26,687	14,939	13.346	6,527	16,824	6,382	15,664	5,802	14,939
13.500	24,946	16,969	30,023	15,809	36,259	14,939	13.394	17,114	18,420	18,130	16,679	19,725	15,084
13.602	18,710	17,114	15,664	16,679	14,214	16,389	13.550	4,206	15,519	3,626	15,809	4,351	12,473
13.657	7,687	17,840	6,237	17,405	5,076	17,405	13.648	4,931	11,313	4,061	11,313	4,931	9,718
13.700	2,901	18,420	2,611	19,435	3,191	15,084	13.729	41,626	11,313	17,405	18,130	17,259	16,969
13.801	5,221	25,092	16,389	17,550	13,053	17,840	13.849	6,092	17,405	4,931	16,969	4,351	16,679
13.901	5,802	41,771	5,656	40,611	5,076	40,756	13.944	7,397	15,809	3,626	29,153	3,481	24,656
From 13 to 14 km, Average Modulus =								20,182	psi				
From 13 to 14 km, Average Subgrade Modulus =								18,273	psi				
14.001	6,527	15,519	5,656	14,214	2,031	24,801	14.050	2,756	12,038	2,321	11,893	1,305	15,084
14.051	6,382	9,863	6,382	8,412	5,947	7,687	14.149	7,832	12,618	11,458	10,733	16,244	9,572
14.102	7,687	11,023	5,947	10,298	5,511	9,572	14.249	1,885	12,183	1,595	13,053	1,305	18,130
14.151	21,756	11,893	22,481	11,313	21,611	10,443	14.350	5,366	16,099	4,931	14,069	4,786	12,763
14.201	7,832	10,443	8,847	9,718	6,817	9,718	14.448	10,153	17,550	12,473	14,794	15,809	13,053
14.251	10,733	20,885	10,443	20,015	13,634	17,405	14.550	11,168	12,908	5,221	13,634	4,061	14,214
14.300	14,069	10,298	13,053	9,572	12,183	8,992	14.650	11,168	19,580	11,023	17,695	9,427	17,840
14.351	23,061	14,794	25,527	13,634	25,237	13,198	14.747	28,572	14,504	28,137	13,634	27,267	13,198
14.401	12,038	13,924	10,443	13,343	11,458	12,618	14.800	9,137	12,183	6,092	13,053	1,885	26,687
14.451	14,649	32,343	13,343	30,893	12,038	30,603							
14.500	16,244	23,206	17,259	21,321	15,664	20,160							
14.552	140,106	47,137	122,847	45,687	123,427	44,672							
14.605	49,313	18,565	44,091	17,985	34,374	17,840							
14.651	91,664	31,038	86,733	29,008	84,992	28,427							
14.701	59,030	29,443	56,130	29,153	61,206	28,282							
14.750	49,748	25,672	49,023	24,511	50,183	24,076							
From 14 to 14.8 km, Average Modulus =								23,583	psi				
From 14 to 14.8 km, Average Subgrade Modulus =								17,818	psi				

Appendix E

Summary of Test Results and Calculated Modulus Values

Lane 1 : Target Force = 2720 kg (6,000 pounds)													
Station	Section	Load	Deflection							Modulus			Error
			Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Asphalt	Base	Subgrade	
(km)		(kPa)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mPa)	(mPa)	(mPa)	(%rms)
0.001	1	0.368	705.7	507.9	388.0	268.2	192.1	112.2	59.0	1325	104	120	0.3
0.100	1	0.376	528.7	376.1	299.7	212.2	148.9	85.6	44.7	1784	158	144	0.5
0.200	1	0.373	369.7	279.6	221.4	157.6	116.4	76.9	46.9	2811	239	192	1.0
0.300	1	0.373	480.4	405.4	332.2	240.2	174.5	97.6	46.9	4320	52	167	1.1
0.400	1	0.374	456.7	355.6	256.4	132.9	106.7	76.7	48.7	2083	113	224	4.0
0.500	1	0.371	550.9	424.5	328.3	228.3	158.5	88.7	50.9	2368	81	161	0.7
0.599	1	0.354	696.0	575.4	444.9	298.6	211.6	124.6	67.2	2211	49	126	2.0
0.700	1	0.365	571.5	496.7	389.3	264.7	178.4	105.5	59.5	3133	44	155	2.8
0.800	1	0.365	592.6	492.9	418.1	326.0	253.2	161.1	84.4	3496	99	94	0.3
0.901	1	0.372	425.3	357.5	289.8	210.8	152.4	75.3	43.3	4818	54	203	1.3
1.050	1	0.365	443.0	354.8	260.8	166.8	107.4	61.4	34.5	2948	70	254	2.1
1.099	1	0.373	527.3	420.4	326.5	227.1	157.6	80.7	39.4	3012	54	188	0.9
1.200	1	0.374	381.8	305.1	243.3	162.8	86.1	59.9	35.6	3827	74	279	2.9
1.300	1	0.377	480.9	410.3	350.9	271.1	196.8	96.6	31.6	6172	20	245	0.5
1.401	1	0.367	713.4	576.0	454.0	314.7	217.4	112.5	47.7	2425	33	145	0.9
1.517	1	0.368	762.8	612.5	464.1	329.1	243.5	144.6	70.4	1821	63	105	1.5
1.554	1	0.377	583.0	460.5	371.4	274.8	200.5	117.0	63.1	2639	88	124	0.4
1.601	1	0.361	680.6	542.9	447.9	331.6	248.2	147.4	73.7	2470	74	100	0.2
1.625	1	0.372	513.7	417.7	333.1	246.5	184.4	116.7	64.0	2952	119	129	1.0
1.715	1	0.357	796.1	680.4	566.7	435.3	294.1	170.6	86.3	2938	27	98	1.5
1.750	1	0.362	651.7	508.6	400.3	274.6	191.4	104.4	46.4	2263	54	142	0.6
1.801	1	0.365	655.9	529.3	404.7	285.8	212.9	138.1	80.5	1949	98	110	1.8
1.851	1	0.375	742.9	582.4	438.7	306.1	212.8	121.3	69.1	1746	60	120	1.2
1.900	1	0.379	652.0	543.0	445.1	323.2	236.4	133.0	48.0	3169	42	110	0.9
2.000	1	0.361	723.3	641.8	542.9	407.2	296.7	155.1	52.4	4053	14	151	1.4
2.100	1	0.354	545.8	401.4	322.3	229.4	162.1	85.0	37.6	2072	134	125	0.4
2.202	1	0.366	317.5	281.1	241.0	191.3	145.4	84.2	40.2	9821	53	209	1.0
2.300	1	0.338	683.4	600.6	497.0	387.3	306.5	213.3	126.3	2946	121	71	1.9
2.327	1	0.389	502.1	381.5	295.1	194.3	138.6	81.0	39.6	2421	92	185	0.9
2.400	1	0.385	252.7	181.8	145.5	107.3	83.6	52.7	32.7	3098	524	267	0.5
2.425	1	0.358	402.8	316.8	260.1	191.6	144.7	84.1	41.1	3773	153	160	0.2
2.500	1	0.337	1063.5	916.0	739.5	533.8	386.4	218.1	101.8	2000	21	78	1.6
2.524	1	0.346	778.9	657.5	509.8	348.0	228.6	111.3	48.6	2361	23	159	1.9
2.600	1	0.391	164.7	130.7	111.0	89.5	71.6	48.3	0.0	4797	2159	44	2.9
2.700	1	0.35	238.0	198.0	172.0	144.0	120.0	90.0	56.0	5467	1028	163	0.8
2.726	1	0.351	321.1	279.2	249.3	205.4	165.5	111.7	57.8	10282	143	141	0.2
2.751	1	0.374	308.8	282.6	256.4	224.6	194.7	142.2	78.6	15782	284	97	0.4
2.801	1	0.389	338.3	296.9	262.7	217.7	178.1	124.2	63.0	9044	226	117	0.4
2.851	1	0.372	457.3	410.2	353.8	286.0	231.5	156.2	77.2	6732	105	96	1.1
2.901	1	0.361	494.5	457.6	413.0	354.8	302.5	223.0	122.2	10007	105	70	0.7
2.951	1	0.375	377.1	339.7	308.0	266.9	227.7	164.3	89.6	11248	241	85	0.2
3.000	1	0.394	302.0	271.8	247.0	215.0	184.8	138.6	81.7	12223	472	106	0.2
3.097	1	0.367	627.5	507.4	412.0	301.4	223.2	120.2	45.8	2849	66	103	0.5
3.201	1	0.372	331.2	261.6	214.5	159.9	122.3	79.0	47.0	3994	268	185	0.7
3.301	1	0.371	475.5	364.2	275.5	183.0	120.8	49.1	0.0	2711	100	129	0.8
3.400	1	0.394	261.2	197.2	159.9	122.6	95.9	58.6	28.4	3713	525	207	0.4
3.502	1	0.353	702.0	604.8	470.0	327.2	228.0	121.0	59.5	2698	30	138	2.2
3.601	1	0.371	758.5	664.2	560.4	432.1	322.6	186.8	77.4	3757	21	100	1.0
3.625	1	0.363	503.3	403.0	327.8	237.2	171.6	98.3	46.3	3456	71	157	0.4
3.700	1	0.371	445.3	384.9	337.7	273.6	215.1	135.8	56.6	7065	83	101	0.2
3.801	1	0.37	376.5	304.6	244.1	179.7	136.2	81.4	39.7	4305	135	183	0.8
3.901	1	0.368	492.7	407.1	317.7	216.8	146.5	70.4	24.7	3752	35	262	1.3
4.005	1	0.354	605.1	490.4	359.9	249.2	170.1	92.9	43.5	2388	52	167	1.8
4.200	1	0.374	496.0	338.8	222.7	131.0	86.1	48.7	26.2	1508	103	289	1.4
4.209	1	0.374	694.4	546.5	456.7	350.0	273.3	174.1	89.8	1975	146	80	0.1
4.225	1	0.38	442.1	366.6	316.8	256.1	204.5	138.2	75.5	4207	256	103	0.2
4.300	1	0.343	549.0	451.0	387.8	328.6	234.7	118.4	34.7	5132	63	75	1.7
4.400	1	0.366	568.0	470.5	382.5	277.3	198.9	109.0	44.0	3635	39	158	0.8
4.501	1	0.377	566.3	414.1	324.9	228.4	165.3	98.4	48.3	1776	138	134	0.1
4.600	1	0.381	352.8	288.5	237.0	178.2	130.4	77.2	36.7	5493	102	203	0.5
4.708	1	0.401	515.0	415.5	335.2	244.4	178.1	104.7	57.6	3175	87	142	0.7
4.800	1	0.4	584.5	411.3	315.0	211.8	145.3	77.0	38.5	1595	113	152	0.2
4.900	1	0.404	414.1	336.1	277.2	207.9	155.9	93.6	48.5	4331	116	161	0.4
5.002	1	0.39	341.0	290.8	253.1	204.6	161.5	107.7	57.4	7368	185	142	0.3
5.100	1	0.394	273.6	215.0	167.0	120.8	90.6	58.6	30.2	4480	264	258	1.1
5.200	1	0.389	507.5	329.3	248.3	167.4	115.2	63.0	34.2	1273	190	179	0.5
5.301	1	0.361	511.9	415.0	306.4	209.4	143.5	79.5	40.7	2769	64	193	1.8

5.401	1	0.385	545.5	383.6	287.3	198.2	136.4	67.3	30.9	1599	139	148	0.5
5.514	1	0.384	548.7	397.4	313.5	224.2	165.9	102.1	54.7	1653	174	134	0.1
5.526	1	0.377	492.0	365.8	284.1	196.8	135.5	68.7	24.1	2343	124	146	0.2
5.601	1	0.36	484.2	348.1	258.6	175.0	122.5	73.9	36.9	1895	136	192	0.6
5.699	1	0.38	659.5	488.2	394.2	291.1	210.0	117.9	53.4	1628	142	93	0.4
5.801	1	0.375	1189.1	950.1	752.3	518.9	337.9	153.1	63.5	1495	16	110	0.6
5.826	1	0.357	1102.0	819.6	619.6	386.3	221.6	100.0	54.9	1153	23	144	0.8
5.900	1	0.378	561.1	414.8	314.8	209.3	140.7	81.5	48.1	1934	89	174	0.7
6.000	1	0.378	435.2	331.5	261.1	183.3	131.5	81.5	42.6	2773	140	182	0.6
6.100	1	0.369	517.9	383.2	297.8	208.7	153.7	96.7	51.2	1934	151	151	0.5
6.201	1	0.357	764.7	578.4	460.8	329.4	235.3	137.3	72.5	1664	74	104	0.1
6.226	1	0.369	635.5	479.9	377.5	267.5	191.6	115.7	68.3	1817	103	123	0.5
6.278	1	0.355	1011.5	774.9	621.1	453.5	333.2	191.3	88.7	1220	73	65	0.2
6.304	1	0.368	593.5	450.8	353.8	254.9	190.2	125.5	70.4	1764	150	119	0.8
6.355	1	0.358	635.5	510.3	418.4	305.0	224.9	138.8	78.2	2488	86	107	0.8
6.400	2	0.373	502.9	377.2	300.3	221.4	167.0	108.8	65.7	2169	217	132	0.6
6.500	2	0.37	758.6	609.2	495.7	319.7	236.5	147.6	79.5	2216	63	105	1.8
6.500	2	0.34	986.2	772.1	623.8	457.1	335.6	195.6	105.0	1716	60	74	0.2
6.550	2	0.349	718.1	527.5	407.2	280.8	192.6	110.3	60.2	1735	84	126	0.2
6.600	2	0.369	470.5	337.7	242.8	159.3	108.1	60.7	37.9	2159	132	223	0.9
6.701	2	0.362	707.7	545.3	435.1	322.9	245.6	168.2	94.8	1682	155	89	0.7
6.750	2	0.368	532.6	386.1	300.5	211.1	152.2	95.1	51.4	1986	160	150	0.2
6.800	2	0.371	432.1	326.4	254.7	179.2	126.4	75.5	45.3	3030	154	187	0.6
6.901	2	0.381	516.3	354.6	270.1	181.9	132.3	80.8	45.9	1612	181	172	0.2
7.000	2	0.371	447.2	347.2	279.2	203.8	156.6	103.8	58.5	2907	219	143	0.7
7.102	2	0.352	711.9	562.8	451.4	334.1	242.6	141.2	71.6	2415	81	99	0.4
7.200	2	0.37	580.8	442.7	331.1	215.7	140.0	81.4	49.2	2291	79	179	1.2
7.300	2	0.351	634.2	520.5	414.8	297.2	211.4	115.7	57.8	3278	53	133	0.9
7.401	2	0.343	634.7	555.1	453.1	332.7	246.9	140.8	63.3	4338	38	121	1.5
7.499	2	0.354	603.1	512.1	413.3	306.5	223.4	126.6	57.3	4126	47	130	1.1
7.568	2	0.371	243.4	230.2	218.9	205.7	188.7	158.5	100.0	25341	2570	16	1.3
8.029	2	0.347	613.3	546.7	441.8	316.7	225.9	123.1	60.5	4365	34	140	2.3
8.107	2	0.362	759.9	609.1	491.2	351.9	249.4	129.6	52.2	2622	49	101	0.4
8.201	2	0.361	504.2	387.8	318.0	236.6	182.3	120.2	67.9	2553	212	122	0.3
8.250	2	0.371	445.3	356.6	281.1	201.9	150.9	90.6	50.9	3662	137	161	0.9
8.300	2	0.354	846.3	692.1	575.4	437.0	334.2	201.7	96.9	2528	71	69	0.3
8.351	2	0.337	592.0	438.3	322.0	211.9	149.6	105.9	68.5	1643	137	146	1.9
8.400	2	0.362	688.4	543.4	415.7	268.8	174.0	77.3	44.5	1876	81	108	5.0
8.500	2	0.362	440.9	340.3	264.9	191.4	139.2	90.9	59.9	2789	198	159	1.3
8.600	2	0.345	610.7	501.2	403.8	296.2	217.1	129.9	69.0	3262	78	116	0.8
8.701	2	0.344	740.7	626.7	504.7	376.5	276.7	173.0	93.6	2910	65	89	1.3
8.802	2	0.34	533.2	452.9	374.7	282.1	214.1	127.6	67.9	4652	77	120	0.9
8.900	2	0.351	532.5	404.8	325.1	243.3	187.5	125.6	73.8	2083	226	116	0.6
9.000	2	0.337	727.0	623.1	511.0	388.4	292.9	170.3	81.0	3713	43	94	1.0
9.125	2	0.352	461.4	365.9	290.3	204.8	145.2	85.5	47.7	3638	108	172	0.8
9.199	2	0.351	394.9	315.1	247.3	173.5	123.6	67.8	31.9	4647	96	225	0.8
9.301	2	0.347	445.8	381.3	316.7	246.1	189.6	123.1	66.6	5453	133	124	1.0
9.346	2	0.368	797.0	559.2	412.8	268.2	180.7	104.6	59.0	1237	82	132	0.3
9.401	2	0.349	553.6	437.2	363.0	280.8	216.6	144.4	84.2	2652	202	101	0.4
9.500	2	0.355	376.6	289.9	213.0	145.9	102.5	61.1	37.5	3313	160	235	1.4
9.601	2	0.32	735.0	625.6	514.1	380.6	280.0	155.3	70.0	3630	34	107	0.9
9.700	2	0.363	410.7	297.0	235.3	165.8	119.6	69.4	40.5	2748	194	197	0.4
9.826	2	0.357	356.9	245.1	186.3	129.4	96.1	60.8	41.2	2075	320	229	0.8
9.900	2	0.346	696.0	495.7	370.2	236.7	153.8	87.0	44.5	1606	76	161	0.4
10.001	2	0.344	508.7	380.5	299.1	213.7	154.7	89.5	46.8	2515	145	149	0.2
10.101	2	0.338	1043.8	826.3	644.1	439.1	300.3	157.4	74.6	1709	32	96	0.8
10.150	2	0.365	496.7	322.2	226.3	141.9	97.8	53.7	26.8	1402	167	221	0.4
10.200	2	0.338	766.3	610.9	499.1	366.6	267.2	151.2	78.7	2571	60	97	0.2
10.299	2	0.363	399.2	281.5	217.9	160.1	123.4	77.1	42.4	1913	332	176	0.3
10.401	2	0.365	366.3	274.2	211.0	153.4	117.0	80.5	47.9	2627	317	186	1.1
10.501	2	0.368	334.8	235.9	188.3	138.9	106.5	66.6	30.4	2241	458	177	0.1
10.600	2	0.354	450.8	375.7	308.5	235.3	176.0	104.8	41.5	5052	122	120	0.7
10.700	2	0.368	350.0	266.3	213.0	163.6	131.3	93.2	55.2	2643	463	161	0.9
10.801	2	0.375	438.7	349.1	304.3	250.1	205.3	138.1	69.1	2906	501	79	0.4
10.879	2	0.36	357.8	237.2	178.9	120.6	83.6	48.6	27.2	2103	266	259	0.3
11.000	2	0.358	416.5	359.8	295.3	222.9	166.2	101.7	54.7	6047	96	153	1.4
11.000	2	0.337	386.4	292.9	243.0	191.1	151.6	99.7	49.9	2601	446	124	0.2
11.101	2	0.347	476.1	395.4	328.8	256.2	203.7	133.1	56.5	4022	225	92	0.7
11.201	2	0.352	288.4	165.1	123.3	85.5	0.0	0.0	0.0	--	--	--	--
11.301	2	0.361	416.9	292.8	228.8	162.9	116.3	65.9	31.0	2143	257	166	0.3
11.401	2	0.357	568.6	407.8	305.9	200.0	131.4	64.7	29.4	2039	97	171	0.2
11.500	2	0.367	476.8	337.6	265.1	200.3	158.3	106.8	55.3	1471	341	134	0.4
11.600	2	0.358	563.1	377.4	281.6	195.5	140.8	82.1	39.1	1238	202	142	0.2

11.700	2	0.345	442.3	363.2	275.9	192.8	140.0	85.2	46.7	3719	113	178	1.8
11.800	2	0.366	441.8	300.3	239.1	170.2	126.2	78.4	44.0	1672	288	167	0.5
11.903	2	0.335	984.2	781.5	622.7	453.4	328.1	186.0	87.8	1808	52	73	0.5
11.956	2	0.353	509.6	398.6	325.2	241.9	180.5	109.1	59.5	3220	137	132	0.2
12.000	2	0.351	839.6	672.1	548.4	402.8	295.2	167.5	73.8	2318	62	78	0.3
12.101	2	0.334	901.2	739.8	614.1	459.0	341.6	203.3	98.5	2539	47	76	0.3
12.150	2	0.344	689.8	500.6	409.0	299.1	225.9	138.4	73.3	1477	169	93	0.4
12.200	2	0.36	291.7	208.1	155.6	110.8	83.6	52.5	25.3	2864	377	256	0.7
12.301	2	0.34	539.4	385.0	267.6	164.7	105.0	49.4	30.9	1988	83	257	0.9
12.399	2	0.335	1157.6	954.9	739.7	511.9	357.3	192.2	94.0	1686	27	81	1.4
12.440	2	0.344	704.1	533.1	413.1	280.8	195.3	101.7	48.8	2075	69	127	0.4
12.475	2	0.335	944.5	708.4	551.6	374.0	269.6	156.7	77.3	1386	65	90	0.5
12.500	2	0.358	606.1	492.7	414.5	324.6	250.3	160.3	82.1	3273	140	88	0.2
12.600	2	0.327	513.8	398.2	297.6	205.5	149.8	92.0	53.5	2465	129	159	1.3
12.701	2	0.341	502.9	398.2	314.1	217.6	149.9	80.1	51.3	3391	82	176	1.0
12.800	3	0.342	736.8	591.5	462.6	319.3	217.0	100.3	36.8	3276	29	130	0.7
12.905	3	0.38	574.7	425.5	342.6	237.6	165.8	79.2	25.8	2593	156	105	0.5
13.000	3	0.38	740.5	547.1	423.7	292.9	202.6	106.8	53.4	2013	86	108	0.3
13.105	3	0.358	911.2	692.2	524.0	346.1	220.9	93.9	25.4	1999	38	94	0.4
13.200	3	0.363	385.7	339.4	283.5	223.7	175.5	117.6	55.9	9015	147	133	1.2
13.302	3	0.381	597.1	428.1	301.3	187.4	126.8	71.7	34.9	2016	81	188	0.9
13.401	3	0.385	636.4	474.5	356.4	247.3	176.4	100.0	43.6	2060	128	117	0.7
13.500	3	0.38	659.5	473.4	364.7	261.6	191.6	116.1	64.5	1586	172	117	0.3
13.602	3	0.387	622.2	490.2	372.6	256.8	195.3	128.4	70.5	2406	129	118	1.5
13.657	3	0.381	861.7	635.7	461.2	290.3	198.4	113.9	64.3	1576	53	123	1.0
13.700	3	0.367	869.8	707.6	564.6	387.2	261.3	125.9	59.1	2951	20	127	0.7
13.801	3	0.374	608.3	486.6	378.1	260.2	174.1	88.0	39.3	3778	36	173	0.7
13.901	3	0.377	545.9	391.8	291.5	174.5	100.3	31.6	14.9	3014	40	288	0.2
14.001	3	0.361	963.7	690.3	515.8	331.6	211.4	100.8	50.4	1475	45	107	0.2
14.051	3	0.372	1061.3	833.6	675.5	485.5	346.2	193.8	92.2	2021	44	68	0.1
14.102	3	0.36	867.2	700.0	569.7	420.0	305.3	173.1	77.8	2787	53	76	0.3
14.151	3	0.374	729.9	569.0	464.2	348.1	260.2	159.1	76.7	2298	150	82	0.1
14.201	3	0.365	1085.5	811.2	640.5	446.8	310.7	166.8	80.5	1541	54	72	0.3
14.251	3	0.369	508.4	411.7	332.0	244.7	178.3	98.6	49.3	4828	74	144	0.4
14.300	3	0.368	909.2	692.4	551.6	399.5	289.1	159.8	72.3	1742	97	71	0.3
14.351	3	0.384	576.0	450.3	355.5	262.5	191.4	105.7	41.9	2968	159	102	0.5
14.401	3	0.365	759.5	590.7	473.7	341.4	247.4	147.7	82.5	2436	83	96	0.3
14.451	3	0.382	529.6	366.5	258.4	159.4	102.6	60.5	38.5	2039	101	223	0.7
14.500	3	0.383	499.0	369.2	283.3	190.1	127.9	64.0	25.6	3057	112	160	0.2
14.552	3	0.385	223.6	152.7	118.2	87.3	67.3	47.3	27.3	2620	966	325	0.8
14.605	3	0.375	477.9	352.8	285.6	212.8	160.5	98.9	48.5	2246	340	128	0.2
14.651	3	0.392	332.1	223.2	180.4	133.9	98.2	62.5	35.7	1852	632	214	0.7
14.701	3	0.38	388.7	268.9	200.8	143.7	108.7	73.7	46.1	1826	407	203	1.0
14.750	3	0.385	456.4	296.4	225.5	158.2	112.7	65.5	34.5	1371	343	177	0.4

Lane 1 : Target Force = 4080 kg (9,000 pounds)													
Station	Section	Load	Deflection							Modulus			Error
			Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Asphalt	Base	Subgrade	
(km)		(kPa)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mPa)	(mPa)	(mPa)	(%rms)
0.001	1	0.549	691.1	499.8	385.1	267.8	192.5	110.9	56.1	1393	108	118	0.2
0.100	1	0.558	530.6	381.4	302.3	214.5	151.8	86.6	43.9	1835	154	141	0.3
0.200	1	0.569	369.1	281.7	221.4	157.5	118.1	76.3	44.3	2935	225	194	0.9
0.300	1	0.55	504.0	422.5	346.2	252.0	183.3	100.5	47.1	4181	47	163	0.9
0.400	1	0.557	465.0	368.2	266.4	137.0	109.3	74.1	46.5	2193	97	228	4.0
0.500	1	0.544	573.9	447.8	348.7	243.2	172.4	93.9	51.5	2446	71	154	0.7
0.599	1	0.519	760.7	588.1	450.5	302.1	213.1	122.7	63.4	1674	57	121	1.0
0.700	1	0.564	577.1	444.3	348.8	237.1	165.1	99.3	58.3	2189	86	148	1.0
0.800	1	0.559	588.6	492.1	417.0	328.1	255.5	162.8	82.6	3719	92	94	0.3
0.901	1	0.556	426.8	353.8	287.1	210.3	153.6	71.8	42.8	4758	54	205	1.2
1.050	1	0.546	437.2	338.5	248.7	160.3	106.4	60.3	32.1	2763	83	251	1.5
1.099	1	0.565	500.5	363.0	280.0	195.8	137.5	70.6	34.7	2059	134	158	0.4
1.200	1	0.544	377.0	302.4	240.6	162.1	84.9	59.2	36.0	3894	74	281	3.0
1.300	1	0.522	516.3	435.8	371.5	283.0	205.2	101.9	26.8	5607	19	243	0.1
1.401	1	0.53	729.1	585.1	462.3	322.3	224.5	112.3	44.9	2374	35	133	0.7
1.517	1	0.539	780.5	624.7	471.4	336.4	246.8	144.2	63.6	1792	60	102	1.4
1.554	1	0.558	608.4	488.0	392.7	289.8	210.8	119.2	59.0	2832	62	128	0.5
1.601	1	0.533	717.1	572.6	471.5	349.3	258.7	151.0	70.9	2372	68	93	0.2
1.625	1	0.548	521.2	412.6	327.0	242.7	182.7	115.0	62.6	2559	139	128	0.8
1.715	1	0.517	812.4	704.1	589.0	453.6	308.7	174.7	82.6	3104	21	102	1.6
1.750	1	0.524	689.3	542.4	426.1	295.2	205.7	108.2	46.8	2228	48	130	0.6
1.801	1	0.528	656.2	530.3	404.4	290.3	218.7	141.9	82.2	1934	105	106	1.8
1.851	1	0.536	734.0	583.8	438.8	308.2	215.5	114.9	56.2	1972	47	129	1.3
1.900	1	0.545	664.0	561.3	459.8	335.2	245.3	134.9	48.8	3402	31	122	1.0
2.000	1	0.518	762.2	681.1	575.7	436.5	317.6	167.6	50.0	4105	11	162	1.5
2.100	1	0.532	544.7	413.2	330.3	235.5	165.8	89.5	34.2	2355	115	122	0.1
2.202	1	0.548	313.0	274.6	236.3	187.8	145.6	83.0	38.3	10185	52	215	0.7
2.300	1	0.535	641.1	518.1	416.1	315.3	247.3	160.9	82.4	2226	131	94	0.9
2.327	1	0.535	536.4	418.7	323.2	213.3	153.1	87.7	40.6	2504	73	175	1.2
2.400	1	0.558	249.6	183.2	146.8	110.4	86.6	57.7	31.4	3293	554	256	0.3
2.425	1	0.542	392.6	302.2	245.4	182.1	135.6	80.1	36.2	3237	213	153	0.1
2.500	1	0.483	1117.4	960.9	769.6	556.5	402.9	220.3	94.2	1931	18	79	1.5
2.524	1	0.502	821.3	610.8	468.5	317.9	210.6	104.6	41.8	1482	54	108	0.3
2.600	1	0.562	160.7	128.3	108.4	88.4	71.0	48.6	18.7	6581	1437	207	0.5
2.700	1	0.527	245.7	204.6	178.0	148.8	122.2	87.7	53.1	6333	766	166	0.5
2.726	1	0.488	347.1	307.0	269.7	223.8	183.6	123.4	64.5	9801	132	128	0.4
2.751	1	0.547	311.0	284.1	258.5	227.8	197.1	143.3	78.1	16505	262	94	0.3
2.801	1	0.551	330.3	288.4	255.4	213.4	175.3	120.7	58.4	8849	300	107	0.2
2.851	1	0.539	441.6	393.5	340.3	275.3	224.7	149.4	72.7	7481	76	110	0.8
2.901	1	0.51	498.2	461.2	413.1	355.5	304.7	222.4	120.8	9862	98	71	0.7
2.951	1	0.55	369.1	336.0	302.9	263.5	225.3	162.9	86.5	12342	220	84	0.4
3.000	1	0.559	300.5	269.2	242.9	212.9	184.1	136.5	75.1	10657	671	89	0.3
3.097	1	0.534	644.9	524.3	424.7	315.9	234.6	128.5	48.5	2779	73	93	0.6
3.201	1	0.557	325.5	262.7	214.9	163.4	126.9	79.2	45.2	4678	239	184	0.6
3.301	1	0.541	478.7	370.1	279.5	187.6	124.2	49.2	9.1	2959	68	174	0.8
3.400	1	0.568	255.1	197.2	161.4	123.2	94.9	57.9	28.3	4570	437	215	0.2
3.502	1	0.515	715.0	560.0	435.0	304.5	214.8	115.5	51.7	2029	55	119	0.7
3.601	1	0.532	796.1	701.3	589.5	453.9	343.4	193.4	72.4	3743	16	105	1.0
3.625	1	0.537	473.2	381.9	308.9	224.2	162.9	93.9	40.4	3664	82	153	0.6
3.700	1	0.532	460.5	401.3	348.7	282.9	226.3	142.1	55.3	6589	115	84	0.4
3.801	1	0.538	382.5	308.4	247.2	184.8	139.2	84.6	39.0	4036	166	162	0.7
3.901	1	0.532	485.5	401.3	310.5	214.5	148.7	69.7	22.4	3837	37	248	1.4
4.005	1	0.514	626.5	503.9	373.2	260.1	178.4	95.3	42.2	2356	48	164	1.6
4.200	1	0.555	485.6	334.2	219.5	131.2	88.3	49.2	25.2	1558	107	285	1.5
4.209	1	0.52	729.6	584.2	484.6	372.9	289.4	181.7	90.2	2087	120	75	0.2
4.225	1	0.555	427.6	363.2	312.8	253.5	204.3	136.2	71.9	5388	185	110	0.3
4.300	1	0.499	540.1	447.5	384.4	322.6	231.5	119.2	32.3	5360	57	78	1.5
4.400	1	0.541	564.1	471.0	383.0	279.5	201.8	108.7	44.0	3799	36	160	0.8
4.501	1	0.548	559.5	425.4	334.7	240.1	173.7	100.9	46.0	1875	142	118	1.3
4.600	1	0.557	348.1	284.0	232.5	174.7	129.4	76.7	33.9	5259	133	182	0.5
4.708	1	0.558	539.4	427.8	342.5	252.2	188.2	110.4	55.2	2803	100	131	0.5
4.800	1	0.558	598.4	431.5	329.9	223.3	155.6	81.5	37.6	1698	102	144	0.2
4.900	1	0.583	408.2	326.6	267.8	201.7	151.3	88.9	42.0	4033	145	151	0.3
5.002	1	0.556	339.9	288.3	250.5	204.0	163.7	108.3	56.7	6877	239	134	0.2
5.100	1	0.538	291.4	229.0	179.6	130.1	97.6	63.8	32.5	4261	251	238	1.0
5.200	1	0.552	508.5	338.6	254.9	172.5	119.2	64.7	33.0	1365	182	170	0.3
5.301	1	0.534	485.0	386.7	285.8	196.6	137.6	76.0	39.3	2782	77	196	1.6
5.401	1	0.537	559.2	393.7	295.9	203.4	140.8	69.1	28.7	1546	142	137	0.4
5.514	1	0.549	547.0	401.6	320.0	229.5	172.1	104.6	54.8	1790	168	131	0.1

5.526	1	0.538	498.3	373.4	290.1	200.4	139.2	69.0	23.4	2403	116	143	0.3
5.601	1	0.547	450.5	323.8	241.9	163.8	117.7	69.1	33.3	1991	161	192	0.6
5.699	1	0.547	652.7	488.8	395.4	291.8	213.7	120.3	47.3	1667	155	86	0.2
5.801	1	0.51	1217.5	985.5	782.4	546.3	365.1	162.0	63.1	1554	14	108	0.7
5.826	1	0.507	1088.0	829.8	635.1	394.9	226.4	93.9	49.7	1280	19	163	1.0
5.900	1	0.526	581.6	432.5	328.7	219.6	151.7	82.5	50.6	1933	83	167	0.7
6.000	1	0.536	441.4	338.2	263.8	186.8	134.5	79.7	40.5	2850	125	184	0.5
6.100	1	0.533	528.0	392.7	303.4	214.1	158.9	98.5	51.2	1927	146	148	0.6
6.201	1	0.522	776.4	594.1	472.0	339.3	245.4	140.8	65.7	1663	79	93	0.3
6.226	1	0.529	641.8	490.9	386.4	273.9	198.5	119.1	62.2	1944	92	123	0.5
6.278	1	0.514	990.1	755.8	612.8	448.1	330.9	187.9	79.0	1258	83	60	0.1
6.304	1	0.526	598.9	459.1	358.0	259.5	194.3	127.8	70.5	1799	145	117	0.9
6.355	1	0.517	639.1	514.5	421.1	307.4	230.2	138.1	70.4	2621	75	109	0.5
6.400	2	0.527	507.4	385.2	304.2	224.5	172.7	112.9	66.4	2189	217	129	0.7
6.500	2	0.515	797.9	642.9	523.3	341.2	254.2	159.0	82.9	2150	60	98	1.7
6.500	2	0.502	1008.2	793.4	638.6	469.9	344.4	198.0	100.4	1670	59	70	0.3
6.550	2	0.513	727.3	539.0	417.5	290.6	204.7	116.0	62.8	1740	87	118	0.2
6.600	2	0.524	484.9	346.0	248.5	164.3	110.9	61.5	36.1	2085	128	219	0.7
6.701	2	0.511	713.7	554.8	441.1	324.7	249.3	165.8	94.5	1766	142	89	0.8
6.750	2	0.522	551.1	403.6	312.5	221.3	163.6	100.6	52.3	1904	165	137	0.3
6.800	2	0.542	419.7	320.3	249.3	175.6	126.6	73.6	42.6	3261	152	192	0.5
6.901	2	0.54	521.1	365.6	278.7	189.3	138.7	85.6	48.0	1711	175	165	0.3
7.000	2	0.53	439.8	343.4	272.1	200.8	154.5	101.7	55.5	2968	219	146	0.7
7.102	2	0.504	705.6	558.3	445.8	330.6	241.7	137.5	63.9	2439	87	94	0.5
7.200	2	0.515	599.4	463.5	349.3	228.3	153.6	88.3	51.7	2334	76	166	1.3
7.300	2	0.524	602.5	499.6	395.4	284.5	207.1	113.5	50.8	3604	52	140	1.1
7.401	2	0.497	635.2	557.7	453.5	335.2	249.3	142.3	59.2	4488	35	125	1.6
7.499	2	0.522	624.9	494.8	401.0	297.7	218.6	122.0	53.6	2880	98	100	0.3
7.568	2	0.536	246.8	232.5	220.7	206.3	192.0	158.0	100.6	23963	2433	25	1.2
8.029	2	0.546	619.2	542.3	437.2	312.8	224.4	119.2	53.8	4249	33	147	1.8
8.107	2	0.51	804.3	650.6	524.3	377.5	269.0	138.6	53.5	2651	42	96	0.5
8.201	2	0.522	509.6	395.6	323.2	241.4	186.4	123.4	68.4	2623	205	119	0.4
8.250	2	0.511	463.0	371.2	291.8	209.6	158.9	97.3	52.1	3460	139	152	1.0
8.300	2	0.507	868.4	711.0	588.2	447.3	345.2	207.1	93.9	2246	85	62	0.5
8.351	2	0.522	552.5	411.7	303.1	199.8	143.5	96.6	61.7	1840	140	156	1.7
8.400	2	0.521	659.7	479.7	364.1	231.1	150.5	65.8	37.6	2059	56	196	0.3
8.500	2	0.517	442.7	339.8	264.0	190.9	140.8	85.3	56.9	2844	185	163	1.1
8.600	2	0.505	632.1	517.0	414.5	303.6	223.2	128.9	63.8	3231	66	119	0.7
8.701	2	0.511	747.9	627.4	505.5	378.1	280.8	174.0	86.3	2906	62	89	1.1
8.802	2	0.488	539.3	454.7	374.4	284.0	215.2	127.7	64.5	4574	75	121	0.7
8.900	2	0.518	535.1	409.5	329.7	248.6	191.9	127.0	70.3	2219	213	115	0.3
9.000	2	0.488	748.8	638.3	523.6	401.6	305.5	179.3	78.9	3499	47	86	0.9
9.125	2	0.508	467.1	373.4	294.9	212.2	151.6	86.8	46.9	3792	100	169	0.7
9.199	2	0.51	402.2	319.8	251.2	178.4	126.3	68.6	31.6	4485	101	208	0.6
9.301	2	0.497	463.4	393.0	325.4	254.9	198.6	125.4	64.8	5314	123	121	0.7
9.346	2	0.518	852.7	578.4	421.6	270.3	183.8	105.4	56.8	1005	85	126	0.2
9.401	2	0.527	560.5	452.9	374.6	289.6	225.8	146.1	81.0	3116	163	100	0.4
9.500	2	0.513	383.4	271.5	201.9	137.8	99.6	60.0	32.7	2411	217	234	0.5
9.601	2	0.492	732.7	573.4	468.1	345.7	258.9	145.1	58.3	2185	112	74	0.2
9.700	2	0.527	410.4	300.2	236.4	167.4	120.9	69.1	37.2	2837	194	187	0.2
9.826	2	0.535	358.5	248.6	189.7	132.1	98.1	66.7	41.9	2067	332	220	0.9
9.900	2	0.513	685.0	495.3	371.2	241.5	161.0	84.6	43.7	1727	76	155	0.3
10.001	2	0.522	492.1	371.5	292.3	210.5	154.2	88.5	44.3	2646	157	144	0.3
10.101	2	0.496	1071.2	856.7	666.1	457.3	316.1	162.3	73.4	1741	29	95	0.9
10.150	2	0.521	503.8	337.2	239.2	151.8	100.8	55.1	26.9	1597	145	215	0.4
10.200	2	0.505	779.0	621.0	504.6	370.1	273.1	149.7	73.5	2494	62	91	0.3
10.299	2	0.532	410.5	285.5	221.1	163.2	126.3	81.6	42.1	1695	356	167	0.3
10.401	2	0.531	375.7	279.5	214.9	158.2	122.6	84.4	50.1	2398	339	177	1.1
10.501	2	0.539	333.8	232.5	185.7	139.0	106.5	66.2	29.9	2045	507	171	0.1
10.600	2	0.525	448.0	372.0	304.0	232.0	176.0	102.7	38.7	4851	142	113	0.7
10.700	2	0.524	372.7	277.9	221.8	171.0	136.3	93.5	52.1	2376	421	158	0.5
10.801	2	0.536	444.0	351.3	313.4	235.1	203.7	135.8	65.3	3179	399	89	1.3
10.879	2	0.543	350.6	244.9	185.6	126.3	89.0	51.6	25.8	2614	245	242	0.1
11.000	2	0.518	433.8	367.6	304.1	233.8	178.4	112.2	63.5	5335	133	133	1.0
11.000	2	0.53	383.0	289.2	239.1	190.2	151.9	99.1	47.5	2398	503	117	0.3
11.101	2	0.501	497.4	401.0	331.1	259.9	206.8	134.1	54.5	2930	291	82	0.5
11.201	2	0.511	297.3	175.3	130.1	91.8	68.5	45.2	23.3	1321	568	306	0.2
11.301	2	0.535	423.9	314.0	247.3	175.3	126.9	70.7	31.4	2820	198	160	0.2
11.401	2	0.514	600.6	427.6	320.0	208.4	137.5	65.4	25.9	1837	101	149	0.2
11.500	2	0.538	491.8	337.0	266.7	204.3	161.3	105.4	53.3	1176	392	124	0.2
11.600	2	0.522	598.1	388.9	292.3	205.2	148.9	85.8	37.5	977	229	124	0.2
11.700	2	0.527	451.6	342.7	261.7	182.0	132.8	81.0	41.2	2789	150	181	0.8
11.800	2	0.536	444.0	314.7	248.1	176.3	130.6	79.7	43.1	2070	238	167	0.2

11.903	2	0.482	1025.3	822.0	655.0	477.8	348.5	197.5	91.5	1797	49	69	0.6
11.956	2	0.517	506.4	396.7	322.2	238.3	177.4	104.3	50.1	3235	141	125	0.2
12.000	2	0.513	876.0	706.8	573.1	420.3	309.7	170.6	68.2	2265	58	72	0.4
12.101	2	0.504	909.7	737.5	605.6	452.8	340.3	200.0	97.2	2257	59	71	0.3
12.150	2	0.515	683.7	541.0	441.7	324.9	244.7	145.4	72.0	2520	98	94	0.2
12.200	2	0.516	310.7	223.8	165.5	118.0	88.2	55.6	27.1	2840	325	251	0.8
12.301	2	0.495	557.2	383.2	267.3	165.5	104.6	50.9	25.5	1684	100	221	0.6
12.399	2	0.478	1272.6	1029.5	795.2	557.9	392.5	210.9	99.6	1459	27	71	1.2
12.440	2	0.504	748.6	552.8	427.8	293.1	204.2	104.2	43.1	1681	88	101	0.2
12.475	2	0.501	1000.4	718.2	557.5	378.6	273.9	156.5	75.4	1047	82	79	0.2
12.500	2	0.508	644.9	527.8	442.3	344.5	270.1	168.1	81.3	2810	151	75	0.4
12.600	2	0.491	516.1	390.6	288.0	201.0	146.8	89.8	48.5	2225	140	162	1.2
12.701	2	0.516	507.4	388.0	303.9	211.6	149.2	78.7	42.1	3063	92	177	0.3
12.800	3	0.495	793.3	626.5	489.3	333.7	229.1	104.6	33.9	2760	38	101	0.6
12.905	3	0.547	569.5	437.7	351.9	247.0	174.0	84.5	25.6	3235	121	104	0.2
13.000	3	0.54	772.6	575.6	445.9	307.2	212.6	110.2	51.9	2018	77	102	0.3
13.105	3	0.52	943.7	713.5	539.8	358.1	232.9	95.6	18.8	1820	48	77	0.5
13.200	3	0.555	389.7	316.6	264.9	209.4	165.2	108.5	50.5	4138	486	120	0.5
13.302	3	0.552	616.3	440.0	310.7	195.3	133.2	72.3	34.2	1918	86	171	0.9
13.401	3	0.552	653.1	474.3	357.6	252.4	182.6	101.4	43.1	1671	167	109	0.5
13.500	3	0.549	677.0	476.9	365.9	263.9	195.1	117.3	59.9	1293	207	109	0.3
13.602	3	0.554	649.5	515.5	391.7	270.4	203.4	131.4	69.5	2474	108	115	1.5
13.657	3	0.543	893.4	676.8	492.4	314.5	212.7	118.6	63.2	1715	43	120	1.1
13.700	3	0.54	891.9	722.0	573.0	395.4	265.7	124.4	50.6	2925	18	134	0.6
13.801	3	0.551	625.0	456.1	351.9	240.1	162.6	82.6	34.3	2220	113	121	0.2
13.901	3	0.565	551.3	397.7	296.1	179.6	102.8	31.0	13.6	3063	39	280	0.3
14.001	3	0.52	1025.8	744.4	554.6	359.4	228.8	103.7	48.5	1461	39	98	0.3
14.051	3	0.524	1174.2	924.4	742.7	531.7	379.4	204.4	86.8	1783	44	58	0.2
14.102	3	0.529	939.5	763.5	615.3	449.9	325.5	176.0	70.1	2668	41	71	0.5
14.151	3	0.556	746.6	584.2	474.6	356.3	269.4	164.9	78.1	2204	155	78	0.2
14.201	3	0.549	1072.3	805.8	633.7	445.0	308.6	161.9	71.4	1511	61	67	0.2
14.251	3	0.554	513.0	418.2	333.6	245.1	179.4	96.0	44.2	4841	72	138	0.7
14.300	3	0.548	942.7	724.3	574.8	416.4	300.2	160.9	66.4	1767	90	66	0.3
14.351	3	0.554	602.7	468.8	371.5	272.9	202.2	111.2	41.7	2656	176	94	0.5
14.401	3	0.532	793.4	615.8	488.2	347.4	250.0	139.5	67.1	2351	72	92	0.3
14.451	3	0.572	559.3	387.9	274.1	167.7	110.1	61.2	41.6	1967	92	213	0.7
14.500	3	0.571	507.5	376.4	289.3	194.9	132.4	63.7	23.3	2995	119	147	0.2
14.552	3	0.565	231.7	161.1	122.7	90.4	70.6	48.3	27.3	2801	847	315	0.8
14.605	3	0.552	502.2	371.6	300.5	223.2	167.4	102.7	50.7	2234	304	124	0.2
14.651	3	0.569	346.9	236.2	189.5	140.2	105.8	65.2	35.7	1855	598	200	0.4
14.701	3	0.55	394.5	273.6	203.6	145.1	109.5	75.1	44.5	1842	387	201	1.0
14.750	3	0.551	473.9	307.4	233.8	162.6	118.1	67.3	34.3	1287	338	169	0.3

Lane 1 : Target Force = 5,440 kg (12,000 pounds)													
Station	Section	Load	Deflection							Modulus			Error
			Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Asphalt	Base	Subgrade	
(km)		(kPa)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mPa)	(mPa)	(mPa)	(%rms)
0.001	1	0.724	693.2	505.7	380.0	264.9	192.4	110.2	54.1	1361	109	117	0.6
0.100	1	0.739	530.4	380.8	302.2	214.1	154.4	88.1	43.6	1792	165	137	0.3
0.200	1	0.749	372.9	292.5	229.0	163.6	123.4	78.5	45.8	3242	199	189	1.1
0.300	1	0.712	522.1	433.6	352.9	258.6	186.8	103.2	47.2	3911	48	158	0.8
0.400	1	0.735	469.5	378.1	273.3	143.8	115.2	77.1	47.6	2265	94	218	4.1
0.500	1	0.715	583.5	454.3	352.4	246.7	177.2	95.9	49.0	2413	69	152	0.7
0.599	1	0.714	759.8	592.2	453.9	306.9	218.6	121.6	61.8	1762	53	122	1.0
0.700	1	0.768	536.8	435.7	342.7	234.2	166.8	96.6	56.5	2821	72	155	1.5
0.800	1	0.723	603.2	505.4	427.0	337.9	266.3	170.4	80.4	3435	121	81	0.4
0.901	1	0.742	412.3	341.5	277.4	205.7	152.8	70.8	41.5	5053	56	208	1.2
1.050	1	0.711	433.2	334.7	247.1	161.5	107.3	63.0	34.5	2746	92	240	1.5
1.099	1	0.743	487.1	360.8	279.8	196.9	140.4	72.5	33.9	2302	131	156	0.4
1.200	1	0.725	369.8	299.3	237.5	160.3	85.0	59.9	36.7	3999	77	279	3.1
1.300	1	0.699	521.7	445.6	379.5	290.4	212.3	102.1	26.0	5841	16	281	0.4
1.401	1	0.696	731.2	592.4	466.7	326.9	230.3	114.7	46.3	2423	32	139	0.9
1.517	1	0.695	685.9	644.6	491.5	350.5	258.8	149.1	63.5	3322	25	125	3.8
1.554	1	0.715	621.7	504.2	405.3	300.6	219.3	123.4	56.8	2848	60	119	0.6
1.601	1	0.708	737.6	598.2	494.4	368.8	275.8	158.2	74.2	2517	55	93	0.3
1.625	1	0.718	524.5	421.2	333.4	248.6	188.2	117.0	63.4	2727	127	127	0.9
1.715	1	0.695	822.9	709.1	592.2	456.3	314.2	175.3	78.6	3085	20	103	1.3
1.750	1	0.691	692.9	543.0	425.5	296.8	210.7	109.4	45.6	2126	56	118	0.6
1.801	1	0.702	660.1	521.5	398.9	292.2	221.4	146.6	82.8	1731	128	103	1.4
1.851	1	0.698	730.1	584.7	442.3	311.9	224.6	121.3	51.1	2000	55	112	1.3
1.900	1	0.705	672.2	575.9	470.6	345.5	254.2	139.0	49.6	3558	25	134	1.2
2.000	1	0.687	779.5	698.0	588.9	448.3	330.1	176.3	44.8	4100	10	173	1.4
2.100	1	0.704	552.8	430.5	340.1	244.6	173.0	92.5	34.8	2581	94	124	0.4
2.202	1	0.694	323.8	250.1	213.8	167.4	130.1	76.7	38.3	4078	374	151	0.8
2.300	1	0.716	663.8	551.4	446.8	344.1	272.8	181.8	97.8	2379	132	83	1.1
2.327	1	0.712	536.8	424.7	330.3	220.2	159.3	92.4	40.3	2662	69	170	1.3
2.400	1	0.736	244.4	184.5	146.5	110.3	87.5	57.1	32.3	3786	520	256	0.6
2.425	1	0.719	379.7	302.8	248.3	185.0	142.1	83.7	37.0	4026	192	150	0.4
2.500	1	0.664	987.8	894.0	708.4	516.6	376.4	214.0	88.6	2410	17	87	2.6
2.524	1	0.701	784.9	605.1	469.3	321.5	215.7	104.9	39.9	1849	41	120	0.5
2.600	1	0.732	160.7	132.0	112.8	90.8	73.6	49.7	19.1	8740	1183	204	0.5
2.700	1	0.68	256.3	214.1	186.3	154.4	127.6	91.6	55.6	6147	725	159	0.6
2.726	1	0.672	342.7	303.1	267.7	220.8	183.3	124.0	61.5	9872	163	118	0.4
2.751	1	0.728	308.7	282.7	256.7	226.0	197.1	143.3	77.9	16077	327	90	0.4
2.801	1	0.731	326.5	286.3	251.8	210.7	174.3	118.7	58.4	8069	339	109	0.3
2.851	1	0.722	426.6	380.1	326.7	265.7	218.1	144.5	69.8	6715	132	100	1.1
2.901	1	0.689	490.7	452.1	405.4	350.5	305.8	222.5	122.9	9661	150	67	0.7
2.951	1	0.733	361.0	329.5	296.0	257.8	221.6	159.5	85.0	12726	223	86	0.5
3.000	1	0.736	300.5	270.1	242.5	213.0	183.6	137.0	76.1	10790	641	92	0.4
3.097	1	0.708	654.5	529.0	428.1	320.3	242.2	132.5	48.4	2539	96	82	0.6
3.201	1	0.725	322.5	265.5	217.2	167.0	131.3	81.1	45.4	5277	217	181	0.8
3.301	1	0.714	460.8	360.8	270.6	184.3	123.5	50.0	8.8	3144	72	173	1.0
3.400	1	0.746	258.0	199.9	165.1	126.7	97.6	61.0	30.0	4722	434	211	0.1
3.502	1	0.679	710.3	560.8	436.1	308.2	219.6	118.6	51.5	2091	57	114	0.8
3.601	1	0.703	813.5	715.9	603.4	467.0	356.5	201.1	71.7	3797	15	106	0.9
3.625	1	0.714	460.8	371.6	299.0	216.7	161.8	96.1	42.2	3519	106	147	0.8
3.700	1	0.713	460.4	402.5	348.5	284.7	227.8	144.3	56.0	6544	128	80	0.5
3.801	1	0.71	378.6	308.6	247.5	185.4	143.0	85.8	39.4	4257	166	159	0.9
3.901	1	0.709	477.9	390.0	303.1	211.3	148.1	70.1	20.7	3721	50	189	1.1
4.005	1	0.711	595.6	442.1	331.8	235.3	163.4	87.6	36.4	1775	110	129	0.7
4.200	1	0.716	477.1	337.3	225.8	135.9	90.9	50.8	25.4	1746	100	282	1.6
4.209	1	0.689	744.7	603.5	498.8	384.0	299.7	189.0	89.4	2142	115	72	0.4
4.225	1	0.734	429.2	368.1	316.6	256.5	207.9	140.2	72.5	5549	185	107	0.4
4.300	1	0.664	494.4	453.3	385.8	323.6	236.1	123.3	31.6	8220	10	390	1.7
4.400	1	0.701	580.2	486.3	397.4	291.6	212.7	117.8	43.9	3542	44	125	1.3
4.501	1	0.721	564.1	434.0	343.7	248.5	181.6	102.9	44.7	2274	118	119	0.4
4.600	1	0.722	351.0	288.0	234.6	176.5	131.9	79.5	33.9	5114	145	173	0.7
4.708	1	0.733	531.0	418.3	334.2	248.3	186.2	111.7	51.6	2601	134	119	0.5
4.800	1	0.739	576.9	430.0	331.5	227.3	159.1	84.3	35.0	1992	98	137	0.4
4.900	1	0.75	420.9	336.0	277.2	210.9	160.5	94.3	42.0	3763	177	131	0.3
5.002	1	0.733	332.3	281.7	243.5	198.6	161.4	107.9	55.4	6643	299	130	0.3
5.100	1	0.721	281.6	219.4	172.8	126.2	96.1	63.1	32.0	4198	294	240	0.9
5.200	1	0.727	495.9	337.0	254.2	173.3	121.3	66.4	33.7	1503	178	173	0.3
5.301	1	0.699	469.7	368.5	272.4	190.3	136.2	77.1	40.1	2682	97	190	1.4
5.401	1	0.708	557.6	394.5	297.6	205.6	143.4	70.2	28.7	1570	145	133	0.5
5.514	1	0.716	543.6	406.7	323.6	233.7	177.9	106.6	55.7	1958	161	128	0.3

5.526	1	0.718	490.4	365.6	283.7	196.9	140.4	69.2	21.4	2266	146	131	0.4
5.601	1	0.718	435.8	316.9	237.9	161.8	117.0	70.2	35.1	2169	158	202	0.7
5.699	1	0.712	664.6	498.5	405.1	301.8	222.2	124.9	48.2	1618	165	80	0.3
5.801	1	0.666	1209.8	978.5	778.8	559.2	381.5	170.3	62.0	1632	14	102	0.6
5.826	1	0.666	1074.2	834.5	650.6	409.9	241.7	95.6	50.5	1407	17	165	1.1
5.900	1	0.699	569.8	429.6	327.5	220.3	155.2	86.1	51.1	2037	86	163	0.8
6.000	1	0.706	440.2	339.1	266.7	189.4	137.8	82.3	42.6	2913	129	178	0.5
6.100	1	0.706	521.5	392.6	307.4	217.1	162.6	101.1	50.6	2117	140	146	0.6
6.201	1	0.688	769.2	595.2	474.1	345.9	253.3	143.5	59.0	1710	91	82	0.4
6.226	1	0.7	634.0	490.0	388.0	278.0	204.0	121.0	60.0	2022	97	116	0.5
6.278	1	0.672	985.4	782.3	616.7	454.2	338.5	194.8	70.8	1402	74	58	0.8
6.304	1	0.709	574.6	444.3	350.5	256.7	195.5	127.4	70.1	1962	156	117	0.8
6.355	1	0.681	646.5	523.2	426.6	313.5	237.4	143.9	74.0	2575	80	105	0.6
6.400	2	0.709	493.7	375.2	296.2	220.2	169.8	111.6	65.2	2232	229	130	0.6
6.500	2	0.685	795.0	642.8	521.2	343.4	257.5	158.4	79.7	2212	59	99	1.6
6.500	2	0.661	1019.8	813.3	652.3	481.8	356.9	197.0	91.1	1799	55	65	0.5
6.550	2	0.675	719.7	539.3	417.9	293.5	208.4	117.2	56.0	1795	94	108	0.3
6.600	2	0.711	460.8	334.7	242.2	160.5	111.3	63.0	36.4	2296	135	221	0.9
6.701	2	0.68	700.0	554.9	439.6	325.3	252.2	167.8	93.7	1944	138	89	1.0
6.750	2	0.698	540.5	401.1	310.9	221.6	165.5	102.3	53.2	1941	173	136	0.5
6.800	2	0.706	419.4	321.2	251.8	177.5	129.9	77.3	43.6	3276	160	185	0.5
6.901	2	0.729	493.6	363.0	277.5	192.0	141.2	88.3	49.0	2154	168	164	0.6
7.000	2	0.709	418.6	327.8	260.6	194.5	151.1	99.7	53.3	3147	240	149	0.7
7.102	2	0.672	702.1	555.2	443.7	329.2	246.9	140.6	67.7	2363	97	91	0.5
7.200	2	0.68	565.1	447.8	337.6	225.4	156.5	90.6	51.5	2645	80	164	1.5
7.300	2	0.686	603.1	498.0	393.9	285.7	214.3	115.3	48.0	3467	67	117	1.1
7.401	2	0.688	609.4	502.6	408.0	302.2	227.9	130.2	53.9	3521	81	101	0.7
7.499	2	0.695	619.4	502.6	400.9	299.1	221.6	121.9	51.4	3172	84	103	0.7
7.568	2	0.712	245.8	231.0	219.2	206.5	191.7	157.3	99.3	22958	2060	20	2.2
8.029	2	0.689	656.3	561.8	451.1	326.1	238.8	129.0	54.9	3875	35	134	1.3
8.107	2	0.677	688.6	659.7	532.5	385.7	279.2	143.7	50.7	5304	18	140	4.2
8.201	2	0.685	504.8	397.5	323.9	245.3	191.1	126.7	66.4	2900	198	117	0.4
8.250	2	0.687	453.4	364.8	286.3	208.9	161.0	96.8	52.0	3589	147	151	1.0
8.300	2	0.671	868.0	708.3	583.2	446.5	349.5	206.6	88.7	2198	98	56	0.5
8.351	2	0.691	518.7	403.2	295.8	199.6	143.8	95.2	59.8	2260	136	159	2.0
8.400	2	0.685	536.5	463.9	353.6	225.8	149.2	66.4	35.8	3796	36	253	2.8
8.500	2	0.68	424.1	329.4	256.3	187.4	139.0	89.6	54.6	3000	206	162	1.0
8.600	2	0.685	640.7	523.2	419.0	308.6	229.9	132.8	61.3	3100	77	106	0.8
8.701	2	0.657	772.5	641.4	518.9	393.2	297.3	184.3	86.3	2663	78	77	0.9
8.802	2	0.666	538.1	445.6	365.8	277.5	212.3	124.0	59.9	4225	90	116	0.6
8.900	2	0.688	525.0	412.1	331.7	252.3	196.4	131.2	70.2	2547	207	113	0.6
9.000	2	0.669	731.4	595.4	488.6	376.7	289.8	169.5	72.2	2640	110	68	0.5
9.125	2	0.677	464.3	364.0	287.4	207.8	149.9	86.9	46.5	3501	119	166	0.5
9.199	2	0.688	390.7	309.3	242.2	173.0	124.1	69.2	30.5	4347	127	194	0.7
9.301	2	0.679	448.5	379.4	312.4	245.4	194.8	121.6	60.8	5205	147	119	0.8
9.346	2	0.682	776.0	573.8	418.8	271.0	185.8	105.7	53.4	1508	68	136	1.0
9.401	2	0.671	564.4	460.1	377.6	294.2	233.7	151.3	80.3	3091	171	96	0.6
9.500	2	0.693	371.7	266.7	198.0	137.4	100.0	61.6	32.3	2545	229	232	0.6
9.601	2	0.661	724.4	575.0	470.2	351.6	265.8	149.3	55.1	2319	119	68	0.3
9.700	2	0.701	401.4	299.6	236.7	169.8	123.8	69.9	37.9	3198	186	187	0.3
9.826	2	0.711	345.6	246.1	187.1	131.9	98.5	66.9	39.4	2373	328	222	0.8
9.900	2	0.679	673.2	500.0	377.3	249.5	167.0	87.6	43.3	1946	72	149	0.5
10.001	2	0.701	474.3	361.5	285.6	208.7	153.8	90.9	43.9	2615	186	136	0.4
10.101	2	0.658	1002.1	860.6	674.5	469.1	329.8	167.0	70.2	2340	21	105	1.8
10.150	2	0.706	489.8	345.0	244.9	156.7	107.1	57.5	25.8	1938	132	210	0.8
10.200	2	0.679	761.9	608.2	493.8	366.0	274.2	152.6	73.2	2495	73	86	0.4
10.299	2	0.704	405.7	285.4	221.7	166.1	128.3	83.5	42.8	1771	368	163	0.3
10.401	2	0.704	381.8	277.4	212.8	158.1	124.3	84.5	49.7	2067	370	175	0.9
10.501	2	0.714	327.5	229.4	182.4	136.3	104.9	66.7	29.4	2114	512	175	0.1
10.600	2	0.692	428.9	351.0	286.3	219.5	168.9	100.1	38.4	4340	205	109	0.6
10.700	2	0.713	363.3	268.0	215.0	168.9	136.5	94.2	52.0	2178	497	157	0.4
10.801	2	0.712	456.2	370.6	319.5	265.4	220.2	147.5	71.8	3069	481	71	0.4
10.879	2	0.709	344.6	249.8	190.6	129.3	91.8	53.3	26.7	3158	212	247	0.3
11.000	2	0.689	430.8	361.7	297.7	230.6	178.8	114.8	63.0	4993	161	130	0.8
11.000	2	0.698	380.1	287.8	237.7	188.5	151.4	99.3	48.1	2444	501	120	0.2
11.101	2	0.682	492.7	384.9	316.1	250.4	201.2	130.4	51.3	2192	380	78	0.5
11.201	2	0.688	296.1	180.1	134.3	94.6	71.2	46.8	23.4	1463	547	293	0.2
11.301	2	0.709	424.5	315.9	248.8	178.7	129.3	73.1	31.6	2810	208	153	0.2
11.401	2	0.688	595.2	419.2	312.4	204.5	137.4	65.1	25.4	1712	116	143	0.3
11.500	2	0.708	495.3	343.1	272.9	210.6	167.1	109.7	54.4	1188	404	117	0.2
11.600	2	0.698	593.7	387.1	293.8	210.6	153.4	88.3	38.1	956	251	117	0.3
11.700	2	0.703	451.1	338.5	257.9	182.2	135.4	82.6	39.8	2512	186	164	0.7
11.800	2	0.696	455.6	327.9	258.5	184.1	135.8	80.5	42.2	2204	217	159	0.2

11.903	2	0.644	1037.0	832.6	658.7	482.6	354.3	196.7	82.6	1745	53	64	0.7
11.956	2	0.696	492.8	389.2	314.8	234.3	176.0	104.6	50.3	3353	148	126	0.3
12.000	2	0.672	906.2	734.4	594.8	436.5	321.9	174.0	62.5	2223	58	65	0.5
12.101	2	0.663	953.4	758.1	616.6	460.3	349.5	213.3	97.1	1730	85	60	0.4
12.150	2	0.678	685.5	557.5	455.3	337.6	255.0	153.8	73.3	2865	85	92	0.5
12.200	2	0.691	303.9	221.9	166.1	118.5	90.2	57.7	27.4	3025	340	245	0.9
12.301	2	0.681	551.0	357.7	250.8	157.3	101.8	52.4	24.7	1323	141	199	0.3
12.399	2	0.672	1193.8	985.4	751.0	524.0	371.9	191.7	79.2	1607	29	69	1.7
12.440	2	0.696	738.2	539.1	418.4	289.7	206.2	104.6	40.2	1540	111	92	0.3
12.475	2	0.662	1023.6	730.7	568.9	391.2	285.5	162.8	77.2	970	89	73	0.2
12.500	2	0.694	641.5	526.5	438.8	345.0	271.3	168.4	77.7	3059	149	73	0.4
12.600	2	0.685	506.9	348.5	259.6	183.9	138.0	87.9	47.0	1456	223	164	0.4
12.701	2	0.681	500.6	382.4	299.1	209.7	151.1	82.2	45.2	2970	107	170	0.4
12.800	3	0.661	813.3	630.1	491.4	338.9	235.1	107.0	31.8	2357	60	83	0.4
12.905	3	0.725	560.0	445.1	359.2	253.9	179.6	86.9	26.1	4132	75	113	0.3
13.000	3	0.722	756.2	578.8	447.0	308.3	214.3	111.5	49.4	2333	64	106	0.4
13.105	3	0.688	924.9	691.9	521.9	350.0	231.0	95.6	15.3	1659	69	70	0.5
13.200	3	0.735	401.0	325.7	271.4	214.3	171.4	111.4	50.5	4185	479	115	0.4
13.302	3	0.732	619.7	447.5	319.4	204.6	141.5	74.6	35.4	1993	88	161	0.9
13.401	3	0.735	641.0	471.4	359.0	256.2	187.6	104.8	41.9	1752	184	103	0.5
13.500	3	0.729	666.4	470.5	363.9	266.9	199.7	120.0	57.6	1196	250	103	0.3
13.602	3	0.734	658.0	526.4	402.5	280.4	210.8	133.5	69.6	2600	98	113	1.4
13.657	3	0.724	897.2	699.0	513.4	330.7	223.3	118.9	64.8	1928	35	120	1.3
13.700	3	0.71	912.0	737.5	581.7	404.2	276.1	129.2	45.4	2779	22	104	0.6
13.801	3	0.724	633.3	472.8	363.5	249.4	168.2	86.0	35.8	2483	90	123	0.3
13.901	3	0.744	565.5	415.9	309.5	189.1	110.1	34.8	14.1	3139	35	281	0.2
14.001	3	0.695	910.5	781.6	585.2	384.7	248.8	106.8	42.3	2798	14	171	2.3
14.051	3	0.668	1268.0	1000.7	797.5	571.1	406.6	218.0	87.0	1638	41	53	0.3
14.102	3	0.702	975.2	804.7	646.2	474.6	346.0	185.5	68.8	2707	38	66	0.7
14.151	3	0.718	775.1	613.2	498.2	375.3	284.7	172.6	77.0	2243	149	72	0.3
14.201	3	0.705	1093.2	848.9	667.2	475.6	335.6	175.7	78.4	1760	47	67	0.4
14.251	3	0.725	533.9	434.5	344.7	253.9	188.3	102.3	43.4	4344	94	120	0.8
14.300	3	0.718	974.0	756.5	600.6	436.8	315.9	168.7	66.3	1807	84	62	0.4
14.351	3	0.743	601.1	473.9	375.0	277.0	206.3	114.9	41.5	2815	174	91	0.6
14.401	3	0.712	796.3	624.3	494.5	355.9	261.5	147.5	70.8	2371	79	87	0.4
14.451	3	0.755	558.1	395.9	281.9	173.4	114.0	62.1	40.8	2163	83	211	0.7
14.500	3	0.736	531.7	400.4	306.3	207.3	141.7	69.4	23.8	2996	108	139	0.4
14.552	3	0.757	233.0	162.7	124.8	92.5	72.1	49.0	27.7	2846	851	308	0.7
14.605	3	0.735	501.9	384.8	312.4	231.4	174.3	106.7	52.4	2951	237	123	0.1
14.651	3	0.743	346.7	240.2	193.1	144.1	108.3	68.8	36.7	2018	586	196	0.3
14.701	3	0.732	388.3	272.5	204.6	148.2	112.8	78.4	44.0	1893	422	195	1.0
14.750	3	0.732	483.9	313.7	237.2	165.4	123.4	70.8	35.4	1205	346	166	0.2

Lane 2 : Target Force = 2720 kg (6,000 pounds)													
Station	Section	Load	Deflection							Modulus			Error
			Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Asphalt	Base	Subgrade	
(km)		(kPa)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mPa)	(mPa)	(mPa)	(%rms)
14.800	3	0.367	1085.3	749.6	551.2	358.6	232.7	112.5	53.4	1020	63	84	0.4
14.747	3	0.355	682.3	489.0	386.5	280.0	203.1	118.3	59.2	1496	197	100	0.3
14.650	3	0.377	692.6	506.9	386.2	261.8	178.2	96.6	61.3	2089	77	135	0.4
14.550	3	0.349	880.5	611.7	459.3	294.8	186.5	70.2	24.1	1366	77	89	0.6
14.448	3	0.388	627.8	496.1	400.5	290.5	209.3	115.5	66.8	3478	70	121	0.4
14.350	3	0.362	1017.1	736.7	531.8	332.6	212.7	94.8	46.4	1403	37	111	0.6
14.249	3	0.337	1244.2	1063.5	847.5	579.5	390.5	191.1	103.9	2218	13	84	1.8
14.149	3	0.351	682.1	574.4	488.6	382.9	293.2	175.5	89.7	5031	54	87	0.3
14.050	3	0.328	1148.2	934.8	740.5	516.5	358.5	179.3	93.9	2161	19	83	0.8
13.944	3	0.363	850.4	597.8	428.1	248.8	142.7	52.1	0.0	1512	51	109	0.5
13.849	3	0.347	766.6	607.2	472.0	316.7	219.9	125.1	60.5	2633	42	120	0.9
13.729	3	0.354	553.7	419.2	330.2	229.4	162.1	92.9	0.0	2142	287	78	1.3
13.648	3	0.34	1274.4	959.4	712.4	467.4	321.2	179.1	98.8	1202	34	78	0.8
13.550	3	0.337	1028.2	797.6	587.8	384.3	253.4	130.9	74.8	1714	29	107	1.1
13.394	3	0.342	755.3	515.8	372.5	251.8	178.1	102.3	59.4	1201	118	127	0.5
13.346	3	0.342	724.6	577.2	460.5	325.4	231.3	124.9	67.5	3136	45	116	0.4
13.231	3	0.342	464.6	337.7	270.2	198.5	153.5	102.3	0.0	1290	770	78	2.1
13.148	3	0.332	1028.9	849.7	685.2	495.5	350.0	187.7	92.8	2654	22	82	0.7
13.050	3	0.341	470.1	305.9	225.8	156.0	119.1	88.3	0.0	940	545	132	2.6
13.025	3	0.34	409.7	306.8	234.7	168.8	127.6	92.6	0.0	1930	599	105	2.8
12.943	3	0.351	478.6	321.1	221.4	131.6	79.8	37.9	0.0	1912	154	181	0.8
12.850	3	0.335	877.6	639.4	474.3	309.3	209.0	112.8	64.8	1596	53	118	0.4
12.719	2	0.319	752.7	524.5	386.2	256.7	177.7	111.9	70.2	1151	109	126	0.7
12.648	2	0.351	410.8	251.3	181.5	127.6	97.7	41.9	0.0	921	524	111	0.8
12.549	2	0.335	606.0	430.4	326.0	236.1	177.6	119.1	0.0	1015	330	60	2.0
12.451	2	0.351	466.7	299.1	217.4	161.5	125.6	83.8	0.0	806	546	95	2.0
12.349	2	0.352	507.1	314.2	222.7	147.2	103.4	61.6	0.0	908	303	128	1.2
12.250	2	0.351	646.2	476.6	374.9	281.2	211.4	131.6	69.8	1565	178	101	0.4
12.150	2	0.347	613.3	397.4	292.5	211.8	161.4	117.0	0.0	665	383	75	2.3
12.048	2	0.404	358.7	232.2	176.7	130.0	98.8	65.8	0.0	1102	740	107	1.7
11.950	2	0.392	587.5	489.3	425.0	344.6	275.0	180.4	105.4	4054	162	80	0.5
11.850	2	0.381	622.8	431.8	332.5	227.8	159.8	84.5	36.7	1425	155	118	0.3
11.655	2	0.368	559.2	416.6	338.6	247.3	180.7	104.6	49.5	2240	166	112	0.3
11.650	2	0.388	467.3	333.8	252.6	185.8	146.1	102.8	0.0	1203	499	70	2.5
11.550	2	0.355	842.0	636.9	463.4	351.0	282.0	199.2	110.4	982	165	77	1.9
11.449	2	0.39	524.1	411.0	326.7	242.3	186.7	118.5	66.4	2643	172	123	0.7
11.337	2	0.404	344.8	225.2	155.9	98.8	65.8	0.0	0.0	--	--	--	--
11.250	2	0.374	546.5	406.1	307.0	220.9	164.7	108.6	74.9	1733	196	133	1.5
11.150	2	0.402	262.9	182.8	146.3	109.7	83.6	54.0	0.0	1914	1079	91	1.5
11.050	2	0.377	467.9	272.9	209.8	152.3	115.1	81.7	0.0	603	698	98	1.8
10.944	2	0.387	237.0	151.9	114.0	79.6	59.7	0.0	0.0	--	--	--	--
10.848	2	0.398	323.6	255.0	221.6	184.7	153.0	107.3	56.3	3257	797	110	0.3
10.751	2	0.377	427.1	256.2	193.1	143.0	115.1	79.8	44.6	817	516	190	0.5
10.650	2	0.385	529.1	418.2	323.6	238.2	180.0	118.2	69.1	2490	168	125	1.2
10.544	2	0.382	452.6	298.7	227.2	164.9	120.9	69.6	25.7	1248	354	138	0.2
10.448	2	0.382	370.2	256.5	194.2	141.1	108.1	71.5	38.5	1900	356	205	0.5
10.315	2	0.387	383.5	280.4	215.2	161.0	124.8	85.0	45.2	2254	337	174	0.8
10.249	2	0.374	597.1	421.1	308.8	222.7	174.1	125.4	71.1	1122	233	124	1.4
10.149	2	0.366	504.9	390.2	309.8	231.4	177.9	114.8	61.2	2545	193	128	0.5
10.048	2	0.364	563.5	451.9	375.0	282.7	209.6	123.1	59.6	3598	100	112	0.1
9.949	2	0.366	560.4	424.6	329.0	223.8	154.9	89.9	51.6	2439	98	159	0.6
9.849	2	0.382	346.3	252.9	197.9	141.1	108.1	78.8	51.3	2378	392	194	1.6
9.691	2	0.371	483.0	354.7	283.0	211.3	158.5	103.8	54.7	2013	251	134	0.2
9.647	2	0.37	560.0	421.9	327.3	221.4	145.7	81.4	41.6	2598	79	178	0.4
9.549	2	0.372	333.1	248.4	190.1	133.6	96.0	56.5	33.9	3560	217	247	0.6
9.449	2	0.372	425.3	321.8	248.4	182.5	139.2	96.0	60.2	2324	280	155	1.3
9.349	2	0.382	386.6	295.0	232.7	174.1	131.9	88.0	51.3	2920	286	166	0.7
9.250	2	0.368	599.2	450.8	355.7	243.5	163.6	78.0	34.2	2608	72	148	0.2
9.150	2	0.371	379.2	283.0	224.5	164.2	124.5	79.2	47.2	2869	277	180	0.4
9.050	2	0.357	715.7	549.0	429.4	298.0	209.8	119.6	66.7	2062	75	119	0.5
8.949	2	0.349	684.0	523.5	415.2	294.8	212.6	134.4	78.2	1958	108	108	0.7
8.849	2	0.355	670.4	514.6	410.1	291.8	211.0	124.2	65.1	2247	90	116	0.2
8.825	2	0.351	570.4	432.8	341.0	239.3	165.5	103.7	57.8	2378	113	141	0.6
8.750	2	0.348	579.3	444.5	354.0	257.5	193.1	120.7	68.4	2287	145	119	0.4
8.722	2	0.354	502.3	389.5	310.5	227.4	170.1	106.8	59.3	2794	160	136	0.5
8.649	2	0.348	631.6	494.8	400.3	293.7	217.2	130.7	66.4	2463	110	107	0.5
8.549	2	0.367	589.4	444.4	351.0	248.0	173.6	97.3	53.4	2468	94	144	0.2
8.449	2	0.354	650.6	512.1	399.4	274.9	195.8	112.7	59.3	2459	73	131	0.9
8.350	2	0.365	542.7	416.2	322.2	232.1	166.8	103.6	61.4	2391	137	139	0.8

8.244	2	0.358	526.0	412.6	322.6	232.7	170.1	101.7	52.8	2933	115	144	0.7
8.121	2	0.364	559.6	417.3	321.2	225.0	167.3	111.5	78.8	1777	182	130	1.6
8.070	2	0.368	372.8	308.2	258.7	201.6	157.9	97.0	45.7	5639	218	132	0.3
7.617	2	0.36	637.8	513.3	412.2	309.2	233.3	145.8	77.8	2699	109	101	0.6
7.454	2	0.347	776.7	595.1	470.0	320.7	215.9	102.9	48.4	2225	43	133	0.1
7.449	2	0.349	625.8	477.4	375.1	262.8	190.5	110.3	56.2	2195	103	125	0.4
7.349	2	0.36	633.9	476.4	373.3	266.4	190.6	108.9	54.4	2072	112	118	0.2
7.201	2	0.362	591.7	427.3	305.5	195.3	135.4	83.1	50.3	1652	111	174	1.2
7.149	2	0.36	453.1	367.5	295.6	219.7	163.3	105.0	62.2	3713	161	140	1.0
7.098	2	0.357	468.6	352.9	268.6	182.4	127.5	74.5	39.2	2768	121	194	0.6
7.050	2	0.354	565.5	444.9	344.1	257.1	197.7	140.4	83.1	2016	206	108	1.5
6.950	2	0.34	452.9	345.9	259.4	172.9	125.6	82.4	49.4	2554	158	183	1.6
6.848	2	0.351	552.4	414.8	317.1	217.4	149.6	97.7	55.8	2154	125	153	1.0
6.750	2	0.349	738.1	557.6	425.2	292.8	206.6	120.3	60.2	1784	80	118	0.6
6.650	2	0.338	563.3	422.5	304.4	198.8	136.7	82.8	43.5	2040	100	179	1.3
6.550	2	0.334	1167.4	884.4	689.5	467.4	312.3	157.2	79.6	1360	32	90	0.2
6.524	2	0.327	922.6	727.8	552.3	368.2	252.6	143.4	81.3	1648	47	103	1.3
6.500	2	0.34	860.6	732.9	582.6	422.1	302.6	179.1	92.6	2559	41	88	1.6
6.466	2	0.331	1065.9	805.7	609.1	393.4	258.0	131.1	78.2	1328	37	106	0.8
6.450	2	0.354	749.4	549.7	433.1	302.5	211.6	128.5	71.2	1604	96	110	0.3
6.400	2	0.344	789.5	602.3	470.1	337.8	244.2	142.4	71.2	1732	88	94	0.4
6.350	1	0.341	591.2	453.7	357.2	258.7	186.8	110.9	59.5	2153	101	130	0.4
6.250	1	0.354	642.7	478.5	371.8	263.0	185.9	108.8	59.3	1754	95	130	0.3
6.149	1	0.323	918.9	700.0	552.6	392.3	264.4	140.9	75.9	1535	42	101	0.3
6.100	1	0.361	535.2	387.8	300.6	213.3	157.1	95.0	48.5	1715	164	143	0.3
6.050	1	0.351	496.6	355.0	275.2	197.4	141.6	83.8	43.9	1782	181	154	0.3
5.950	1	0.367	492.1	360.5	288.0	200.3	141.1	82.0	45.8	2285	125	171	0.3
5.816	1	0.367	452.0	322.3	232.7	146.9	99.2	59.1	34.3	1968	122	243	1.0
5.750	1	0.355	729.6	516.6	382.5	254.4	175.5	98.6	43.4	1192	93	125	0.5
5.646	1	0.368	389.9	292.9	214.9	135.1	87.5	49.5	20.9	2946	90	317	1.3
5.544	1	0.38	469.7	390.5	322.4	243.2	182.4	114.2	62.6	3967	109	133	0.9
5.500	1	0.344	779.4	592.2	464.0	335.8	250.3	158.7	87.5	1398	106	92	0.6
5.449	1	0.352	467.3	336.1	250.6	167.0	111.4	55.7	27.8	2193	108	213	0.4
5.350	1	0.318	312.6	235.5	184.9	132.1	96.9	55.0	28.6	3694	213	244	0.4
5.350	1	0.319	348.9	256.7	201.9	142.6	100.9	52.7	26.3	3245	183	220	0.4
5.241	1	0.318	165.1	129.9	107.9	83.6	66.0	41.8	22.0	7855	691	326	0.3
5.150	1	0.315	386.7	326.7	284.4	226.7	177.8	115.6	60.0	6071	165	127	0.3
5.049	1	0.323	422.6	353.3	299.1	229.7	175.5	108.4	54.2	5237	97	144	0.4
4.950	1	0.332	419.6	328.9	267.8	198.2	147.6	92.8	50.6	3295	169	159	0.4
4.850	1	0.318	306.0	253.1	222.3	180.5	145.3	96.9	50.6	6479	374	141	0.3
4.749	1	0.305	514.1	408.5	339.7	257.0	197.4	121.6	62.0	2978	146	116	0.1
4.649	1	0.311	357.9	288.1	236.3	173.3	128.3	83.3	49.5	4159	189	179	1.1
4.550	1	0.369	734.1	535.0	426.8	316.8	237.1	144.2	74.0	1223	155	89	0.2
4.482	1	0.398	276.1	246.2	232.2	209.3	188.2	160.1	117.8	6113	2701	79	1.2
4.470	1	0.397	269.8	246.9	232.7	209.8	188.7	160.5	123.4	8517	2575	76	1.7
4.460	1	0.387	247.8	208.0	191.7	168.2	148.3	123.0	92.2	3463	3138	109	2.1
4.450	1	0.349	224.6	192.6	176.5	156.4	136.4	114.3	92.3	4270	3619	114	3.0
4.439	1	0.379	350.9	332.5	310.3	278.9	247.5	206.9	151.5	11333	1194	61	1.6
4.427	1	0.383	374.7	345.4	329.0	297.9	268.7	224.8	162.7	9354	1352	55	0.9
4.419	1	0.368	291.0	251.1	237.8	213.0	192.1	163.6	123.6	3453	3671	78	1.7
4.409	1	0.372	291.7	269.1	255.9	231.5	210.8	182.5	137.4	9127	2517	66	1.3
4.400	1	0.354	684.2	638.7	607.1	551.7	490.4	413.3	274.9	8275	441	32	0.6
4.380	1	0.367	394.8	358.6	339.5	305.2	274.7	238.4	181.2	5163	1976	51	1.7
4.380	1	0.375	349.1	317.3	300.5	274.4	246.4	210.9	156.8	6506	2052	58	1.1
4.370	1	0.377	317.5	282.2	267.4	241.4	219.1	193.1	150.4	4015	3797	63	2.0
4.360	1	0.374	288.2	228.3	194.7	149.7	108.6	61.8	31.8	6879	141	230	0.7
4.350	1	0.365	258.9	195.6	157.3	120.8	94.0	59.5	26.8	3624	546	208	0.4
4.249	1	0.373	335.9	255.2	200.8	144.5	107.0	67.6	33.8	3372	226	217	0.5
4.149	1	0.357	354.9	317.6	284.3	239.2	198.0	139.2	74.5	10823	147	113	0.4
4.049	1	0.335	760.6	631.0	530.7	409.6	313.4	190.1	83.6	2746	69	71	0.3
3.849	1	0.349	228.7	184.5	158.5	126.4	102.3	76.2	50.1	4853	916	194	1.5
3.849	1	0.369	151.8	121.4	102.4	81.6	66.4	45.5	30.4	7513	1160	315	1.2
3.750	1	0.354	361.9	290.7	239.3	179.9	138.4	89.0	47.5	4205	208	168	0.5
3.649	1	0.347	478.1	383.3	318.7	240.1	179.5	106.9	50.4	3633	116	129	0.1
3.549	1	0.334	427.5	347.9	280.8	207.5	119.5	73.4	39.8	4129	59	222	2.2
3.448	1	0.343	512.2	424.5	357.1	265.3	191.8	100.0	28.6	4598	43	132	0.3
3.345	1	0.36	318.9	268.3	233.3	186.7	147.8	89.4	35.0	7572	239	122	0.2
3.249	1	0.328	742.7	572.0	454.6	324.4	232.6	132.3	55.5	1793	79	94	0.4
3.150	1	0.358	627.7	557.3	496.6	412.6	330.4	215.1	101.7	6424	30	82	0.3
3.050	1	0.368	530.7	412.8	327.2	228.3	157.9	89.4	47.6	2706	75	165	0.6
2.950	1	0.364	584.6	465.4	390.4	292.3	213.5	117.3	48.1	3134	81	103	0.2
2.850	1	0.344	795.6	651.2	494.5	293.0	199.4	116.0	57.0	1760	34	144	2.8
2.749	1	0.352	586.6	473.3	363.9	256.5	188.9	115.3	61.6	2380	86	131	1.5

2.649	1	0.322	921.7	795.7	676.1	519.6	389.1	230.4	117.4	2781	28	70	1.0
2.624	1	0.357	378.4	321.6	264.7	205.9	160.8	107.8	60.8	4863	204	140	1.2
2.550	1	0.36	215.8	149.7	114.7	83.6	60.3	36.9	19.4	3352	519	353	0.4
2.449	1	0.351	564.4	472.6	398.9	311.1	243.3	171.5	99.7	2996	184	88	1.1
2.423	1	0.335	733.4	572.5	466.0	334.3	236.1	121.2	46.0	2202	57	96	0.0
2.348	1	0.366	225.7	170.2	137.7	99.5	70.8	45.9	28.7	4979	358	315	0.9
2.249	1	0.351	380.9	297.2	247.3	191.5	149.6	99.7	45.9	2904	370	131	0.3
2.149	1	0.355	414.1	364.8	327.3	274.1	222.8	145.9	69.0	9970	53	114	0.1
2.050	1	0.343	567.3	449.0	361.2	259.2	185.7	106.1	59.2	2720	77	138	0.6
1.950	1	0.344	590.1	447.7	358.1	248.3	170.9	91.6	44.8	2366	67	152	0.1
1.850	1	0.34	802.9	644.4	533.2	403.5	308.8	197.6	107.1	1924	94	75	0.4
1.824	1	0.344	734.6	549.4	435.5	303.2	203.5	99.7	48.8	1863	52	126	0.3
1.750	1	0.368	275.8	214.9	180.7	142.7	110.3	74.2	39.9	4425	472	192	0.3
1.650	1	0.312	1234.0	987.2	805.4	565.4	388.1	192.9	89.7	1497	18	83	0.4
1.623	1	0.344	590.1	449.7	360.2	252.3	177.0	95.6	44.8	2362	76	139	0.1
1.550	1	0.33	759.4	564.2	437.0	286.4	186.7	95.5	48.8	1667	45	150	0.3
1.550	1	0.324	777.8	587.7	451.5	300.3	196.6	95.1	49.7	1725	39	150	0.4
1.450	1	0.315	735.6	528.9	386.7	240.0	142.2	55.6	28.9	1540	39	216	0.4
1.349	1	0.342	560.8	431.9	329.5	214.9	151.5	100.3	63.5	1962	104	152	1.9
1.249	1	0.351	622.2	484.6	386.9	279.2	203.4	115.7	47.9	2243	95	108	0.4
1.186	1	0.327	1070.3	819.9	644.3	428.1	286.9	158.4	83.5	1268	33	93	0.7
1.124	1	0.34	990.3	815.3	671.2	500.3	374.7	230.6	117.4	1867	46	66	0.7
1.099	1	0.347	558.8	441.8	353.0	215.9	159.4	98.8	50.4	2409	72	161	2.1
1.049	1	0.338	430.8	350.0	252.7	167.8	107.7	49.7	29.0	3315	56	299	2.1
0.951	1	0.335	658.2	486.9	374.0	248.7	167.2	94.0	52.2	1737	70	151	0.5
0.848	1	0.325	1158.8	1012.3	796.9	510.5	348.9	176.6	88.3	1603	15	100	3.0
0.824	1	0.338	569.5	439.1	345.9	225.7	147.0	76.6	47.6	2430	55	189	1.1
0.733	1	0.333	685.3	525.5	405.7	269.1	193.4	115.6	67.3	1733	76	127	1.2
0.650	1	0.34	627.9	477.6	372.6	257.4	179.1	107.1	63.8	1916	86	135	0.8
0.605	1	0.33	723.3	557.9	432.7	292.7	199.4	108.2	53.0	1917	48	138	0.7
0.503	1	0.331	594.3	471.6	376.4	270.7	196.7	112.1	55.0	2656	69	134	0.5
0.450	1	0.329	474.5	348.9	276.6	206.4	157.4	93.6	51.1	1948	233	139	0.4
0.349	1	0.347	449.9	336.9	258.2	171.5	113.0	60.5	34.3	2713	87	234	0.6
0.250	1	0.327	511.6	398.2	316.8	216.2	143.4	64.2	34.3	3161	46	230	0.5
0.187	1	0.34	605.3	446.8	356.2	257.4	183.2	105.0	53.5	1828	123	120	0.3

Lane 2 : Target Force = 4080 kg (9,000 pounds)													
Station	Section	Load	Deflection							Modulus			Error
			Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Asphalt	Base	Subgrade	
(km)		(kPa)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mPa)	(mPa)	(mPa)	(%rms)
14.800	3	0.566	1030.2	764.3	557.8	366.1	239.9	107.6	43.3	1472	42	90	0.7
14.747	3	0.544	673.0	494.1	388.6	281.8	205.9	115.8	50.2	1689	194	94	0.2
14.650	3	0.561	703.7	522.8	398.0	269.5	182.2	96.1	46.2	2103	76	122	0.3
14.550	3	0.532	907.9	681.6	515.8	334.2	211.8	73.7	15.8	1997	36	94	0.4
14.448	3	0.567	649.4	512.3	414.8	303.7	219.8	118.5	56.8	3272	86	102	0.3
14.350	3	0.52	1091.7	796.9	573.5	362.1	231.5	95.6	40.4	1341	34	97	0.7
14.249	3	0.479	1326.9	1116.5	879.7	597.7	400.4	182.7	89.1	2034	11	90	1.5
14.149	3	0.529	706.6	588.8	497.5	386.4	296.4	172.0	76.7	4348	79	74	0.3
14.050	3	0.492	1250.6	1007.3	793.9	553.5	384.1	185.0	82.5	1989	16	82	0.6
13.944	3	0.532	863.2	631.6	455.3	272.4	159.2	56.6	30.3	1879	25	201	0.5
13.849	3	0.529	807.2	652.4	502.8	340.1	238.2	132.3	60.9	2681	34	117	1.2
13.729	3	0.535	569.2	435.7	342.8	238.1	170.1	94.2	44.5	2743	120	125	0.9
13.648	3	0.507	1321.3	999.6	741.4	487.4	336.9	179.5	92.5	1241	28	78	0.8
13.550	3	0.502	1082.1	829.7	609.4	398.8	263.5	129.7	65.5	1644	25	109	0.9
13.394	3	0.521	779.3	534.7	385.6	262.0	186.8	106.1	55.1	1136	125	115	0.5
13.346	3	0.509	752.3	601.0	475.8	334.2	237.9	125.1	59.1	2981	44	108	0.5
13.231	3	0.533	464.9	340.2	270.5	199.6	155.0	99.8	51.2	1870	382	141	0.4
13.148	3	0.491	1059.3	866.8	692.9	497.6	349.3	175.4	75.6	2580	18	88	0.6
13.050	3	0.529	468.4	316.3	235.5	162.8	123.1	86.0	59.5	1387	335	176	1.5
13.025	3	0.515	425.4	314.0	240.6	174.0	131.8	84.3	55.7	2417	311	170	1.1
12.943	3	0.52	491.3	329.8	226.2	134.6	80.8	36.3	24.2	2217	84	295	0.5
12.850	3	0.511	915.1	674.0	495.9	324.7	216.4	112.3	58.9	1613	46	114	0.6
12.719	2	0.491	778.4	541.8	396.3	262.3	183.9	108.4	62.7	1148	99	127	0.5
12.648	2	0.538	420.3	258.9	183.5	126.2	96.3	63.8	0.0	927	463	142	1.8
12.549	2	0.511	613.7	442.5	334.2	241.1	183.6	121.9	65.8	1384	186	122	0.7
12.451	2	0.52	480.6	313.7	227.5	169.6	131.9	86.2	49.8	1049	331	168	0.8
12.349	2	0.533	525.3	329.6	232.5	153.7	109.0	60.4	32.8	1081	206	189	0.4
12.250	2	0.521	679.8	498.5	389.6	290.2	220.3	131.7	64.5	1410	179	91	0.4
12.150	2	0.527	611.0	401.1	293.5	215.2	166.0	111.6	65.1	858	253	132	0.7
12.048	2	0.568	367.3	240.3	182.4	134.3	103.5	66.5	0.0	1113	713	101	1.6
11.950	2	0.554	604.0	504.2	433.4	348.7	276.7	176.9	93.5	4249	125	81	0.3
11.850	2	0.545	646.1	457.2	345.5	240.2	168.3	83.5	28.3	1428	151	101	0.4
11.655	2	0.545	578.0	431.6	348.1	253.0	186.2	105.3	42.4	2073	176	98	0.2
11.650	2	0.554	475.1	341.2	257.8	189.5	147.8	102.3	59.4	1570	293	147	1.0
11.550	2	0.507	843.6	650.3	472.2	360.4	289.9	203.0	110.5	1066	158	76	2.0
11.449	2	0.547	547.7	428.7	341.7	255.9	197.1	122.9	65.3	2597	161	117	0.5
11.337	2	0.571	349.4	229.2	159.4	101.8	68.7	36.8	19.6	2086	225	320	0.5
11.250	2	0.547	559.2	412.1	308.4	221.4	165.1	102.4	58.9	1788	165	140	0.8
11.150	2	0.582	265.8	185.2	149.1	110.7	85.4	54.1	26.5	2652	611	227	0.2
11.050	2	0.546	489.7	287.2	219.2	160.3	124.4	82.1	47.4	720	417	175	0.2
10.944	2	0.562	246.6	160.7	120.8	85.9	64.8	43.6	28.6	2198	600	332	0.8
10.848	2	0.552	338.6	271.4	234.6	194.0	162.3	115.4	60.9	3302	720	108	0.0
10.751	2	0.564	425.7	261.9	192.4	144.0	115.4	79.4	43.4	892	475	190	0.7
10.650	2	0.538	555.6	442.4	340.9	251.1	190.0	121.0	67.7	2539	144	122	1.2
10.544	2	0.526	469.8	311.4	236.9	170.3	125.1	71.9	27.9	1260	322	138	0.2
10.448	2	0.543	385.5	269.4	202.4	148.3	113.4	72.2	38.7	1847	338	192	0.6
10.315	2	0.558	387.6	283.5	217.0	161.8	128.0	85.3	45.2	2169	343	174	0.8
10.249	2	0.524	633.2	450.2	330.0	237.8	185.7	130.9	73.5	1116	210	118	1.3
10.149	2	0.535	522.1	405.6	320.6	239.4	184.5	117.8	61.5	2487	185	123	0.6
10.048	2	0.521	584.5	472.9	388.3	292.9	219.0	127.6	56.4	3422	105	100	0.3
9.949	2	0.513	596.3	451.7	349.3	237.4	165.1	95.5	53.2	2293	92	150	0.6
9.849	2	0.54	348.7	258.0	199.6	145.2	112.8	79.1	55.7	2397	399	187	1.8
9.691	2	0.521	495.8	368.1	292.9	217.7	165.3	104.8	53.7	2117	232	129	0.2
9.647	2	0.534	566.3	430.0	330.3	222.8	145.5	78.7	39.3	2651	71	185	0.5
9.549	2	0.541	339.0	254.9	195.4	137.2	98.3	58.2	32.3	3686	200	244	0.5
9.449	2	0.55	412.4	311.8	239.3	175.6	134.9	90.4	56.0	2422	278	163	1.2
9.349	2	0.544	387.3	296.0	232.9	175.0	133.8	87.5	50.2	2953	283	166	0.6
9.250	2	0.531	620.9	470.6	367.8	250.5	171.4	80.4	34.3	2502	71	139	0.3
9.150	2	0.541	380.4	286.0	226.4	165.6	125.5	78.9	45.3	3030	258	181	0.4
9.050	2	0.515	747.6	581.7	449.9	316.7	224.3	126.4	66.6	2074	67	114	0.7
8.949	2	0.508	702.8	544.3	427.2	304.5	223.2	137.8	77.2	1988	100	106	0.7
8.849	2	0.513	689.1	534.9	425.7	305.7	223.8	131.0	66.9	2260	88	109	0.3
8.825	2	0.525	582.7	444.0	350.7	246.7	173.3	104.0	57.3	2439	104	139	0.4
8.750	2	0.521	581.8	452.8	357.4	260.7	196.2	119.6	65.8	2454	130	121	0.6
8.722	2	0.514	506.6	394.9	314.6	230.2	175.7	108.9	58.6	2824	159	133	0.5
8.649	2	0.511	643.8	506.8	405.5	298.6	223.3	131.5	64.4	2505	107	103	0.4
8.549	2	0.521	603.3	455.5	356.0	252.6	178.7	96.7	52.4	2317	98	136	0.4
8.449	2	0.515	649.7	513.8	398.3	274.6	195.7	110.1	57.1	2515	69	134	0.9
8.350	2	0.524	550.4	422.1	326.0	235.1	173.7	105.5	58.8	2362	137	136	0.7

8.244	2	0.515	538.3	421.4	326.2	236.5	174.0	104.7	53.0	2734	122	138	0.8
8.121	2	0.531	547.1	411.3	313.7	220.2	163.5	110.7	79.1	1823	186	132	1.8
8.070	2	0.541	376.5	311.8	261.4	204.4	160.4	98.3	45.3	5822	213	128	0.4
7.617	2	0.521	640.9	520.0	417.9	313.1	236.5	146.4	75.2	2853	99	102	0.7
7.454	2	0.497	811.3	625.4	494.4	336.6	225.4	102.8	47.9	2219	37	135	0.2
7.449	2	0.524	610.5	466.2	364.7	257.8	187.0	104.2	52.1	2343	101	127	0.4
7.349	2	0.507	661.3	498.4	389.3	280.3	201.6	113.2	53.8	1925	115	107	0.4
7.201	2	0.519	593.4	443.7	322.4	206.4	143.0	85.0	49.9	1925	95	171	1.3
7.149	2	0.533	447.8	355.9	283.7	211.4	160.2	95.9	53.8	3632	157	150	0.6
7.098	2	0.514	473.9	355.4	268.3	183.9	130.7	74.9	38.1	2648	128	187	0.7
7.050	2	0.518	571.6	439.2	333.8	248.6	194.6	132.4	77.0	1784	208	113	1.3
6.950	2	0.507	446.0	338.3	252.7	171.2	124.3	81.5	48.3	2512	169	184	1.4
6.848	2	0.505	561.4	425.5	325.7	225.9	155.2	101.2	56.8	2209	120	147	1.0
6.750	2	0.514	732.7	551.6	422.2	291.4	207.0	118.5	58.6	1751	84	116	0.5
6.650	2	0.507	548.1	386.6	277.5	180.9	125.6	73.2	37.3	1745	121	193	0.7
6.550	2	0.49	1182.9	935.7	728.6	498.6	338.6	160.0	72.9	1603	23	97	0.6
6.524	2	0.497	923.9	690.1	518.3	346.5	236.6	129.6	69.0	1405	55	108	0.6
6.500	2	0.508	859.8	687.6	542.9	394.1	286.6	164.0	79.9	2092	56	89	0.7
6.466	2	0.493	1045.0	792.3	596.3	386.2	252.7	119.3	71.0	1402	34	114	0.7
6.450	2	0.498	757.6	574.9	456.8	320.5	227.7	136.3	73.1	1868	82	106	0.3
6.400	2	0.5	781.2	599.2	467.6	340.2	250.6	147.0	72.8	1723	99	89	0.5
6.350	1	0.515	565.4	439.0	343.9	251.5	184.9	111.5	51.7	2229	123	121	0.7
6.250	1	0.513	640.0	489.9	378.0	268.8	192.4	109.2	55.9	1969	82	129	0.6
6.149	1	0.483	926.1	708.7	560.9	398.6	268.1	142.0	72.5	1592	38	103	0.3
6.100	1	0.501	565.9	413.6	320.0	227.7	166.3	97.8	50.3	1710	145	135	0.3
6.050	1	0.518	487.8	362.2	279.7	200.0	144.6	82.4	43.2	2188	146	159	0.4
5.950	1	0.535	489.3	366.4	290.5	204.1	146.5	81.1	41.9	2499	116	165	0.2
5.816	1	0.53	467.5	338.1	245.7	157.2	108.3	62.1	35.7	2014	114	228	1.0
5.750	1	0.509	744.0	533.6	394.7	265.4	184.3	99.0	39.9	1228	92	113	0.6
5.646	1	0.529	389.0	291.1	213.0	136.3	91.3	50.3	21.2	2846	106	276	1.2
5.544	1	0.547	474.8	399.3	328.9	248.3	188.1	115.2	60.1	4237	90	134	0.9
5.500	1	0.502	780.9	595.4	468.5	340.2	258.0	164.5	86.5	1408	109	90	0.6
5.449	1	0.508	480.9	348.6	257.7	172.2	115.7	56.5	26.2	2156	105	201	0.6
5.350	1	0.528	322.2	245.3	192.2	139.2	102.1	55.7	29.2	3860	193	231	0.5
5.350	1	0.541	359.7	266.5	209.6	148.8	106.1	54.3	24.6	3164	188	198	0.4
5.241	1	0.521	176.0	141.1	115.5	91.4	72.6	47.0	24.2	7570	677	293	0.6
5.150	1	0.524	384.7	326.0	283.2	225.8	180.3	118.9	58.8	6142	187	120	0.2
5.049	1	0.518	452.7	379.7	320.3	247.3	187.8	114.9	50.0	5006	92	125	0.4
4.950	1	0.524	450.2	355.3	285.9	212.4	159.0	98.9	49.4	3087	156	146	0.5
4.850	1	0.518	294.6	244.6	210.8	173.0	139.2	91.9	43.2	6045	483	130	0.3
4.749	1	0.5	526.4	418.6	345.8	261.8	200.2	123.2	57.4	2843	155	107	0.2
4.649	1	0.501	361.9	292.0	238.9	174.7	129.9	81.0	44.7	4394	156	185	0.8
4.550	1	0.532	746.1	552.6	439.5	325.0	247.4	144.7	72.4	1299	144	85	0.4
4.482	1	0.568	335.2	308.1	292.1	267.4	245.2	221.8	175.0	5778	3707	51	1.9
4.470	1	0.566	316.6	295.6	279.5	257.2	237.5	212.7	170.7	14209	2952	50	1.7
4.460	1	0.555	287.6	254.8	237.1	213.2	191.7	170.3	137.5	3663	4696	71	2.8
4.450	1	0.515	250.1	221.6	205.2	184.9	167.2	148.2	121.0	3797	6131	81	3.0
4.439	1	0.549	387.6	368.5	341.7	311.1	281.8	244.8	190.0	8123	1794	48	1.9
4.427	1	0.545	417.4	394.3	372.5	340.4	307.0	267.2	200.4	9001	1502	44	1.3
4.419	1	0.548	302.7	268.2	252.9	228.6	205.7	181.4	140.5	4136	3753	68	2.1
4.409	1	0.554	319.7	299.5	283.0	259.0	237.5	212.3	164.3	8631	2923	54	1.5
4.400	1	0.529	696.0	656.3	616.6	561.1	500.2	426.1	288.5	7311	512	31	0.8
4.380	1	0.544	432.4	401.5	379.6	344.9	315.3	281.8	220.0	5535	2244	41	1.8
4.380	1	0.55	392.0	365.3	346.2	316.9	291.5	258.4	202.4	6632	2501	44	1.5
4.370	1	0.55	371.6	342.4	324.5	299.1	278.7	257.1	217.6	2619	10223	40	2.6
4.360	1	0.546	300.0	239.7	202.6	155.1	112.8	62.8	30.8	6689	123	227	0.5
4.350	1	0.534	280.5	212.4	169.1	129.8	100.9	62.9	27.5	3325	500	190	0.5
4.249	1	0.53	365.8	281.3	220.6	158.5	117.5	71.3	34.3	3321	187	197	0.6
4.149	1	0.514	374.5	333.7	296.9	247.9	205.6	141.6	69.5	9846	151	101	0.4
4.049	1	0.504	755.6	640.3	540.3	419.4	323.6	195.8	77.8	3157	57	68	0.5
3.849	1	0.518	237.8	191.9	162.2	128.4	106.8	75.7	47.3	4797	789	195	1.0
3.849	1	0.532	157.9	128.9	109.2	85.5	69.7	47.4	28.9	9005	860	309	0.8
3.750	1	0.528	367.2	294.3	241.3	184.3	141.9	91.5	47.7	4072	218	163	0.4
3.649	1	0.505	485.1	393.7	325.7	246.7	185.7	112.3	49.9	3464	132	117	0.3
3.549	1	0.501	441.5	357.7	287.8	209.6	120.2	72.7	37.7	3941	54	228	2.0
3.448	1	0.508	533.3	445.1	370.7	278.3	203.9	103.3	26.2	4458	46	112	0.4
3.345	1	0.521	335.9	284.8	245.9	198.8	157.2	98.1	33.6	6673	326	96	0.2
3.249	1	0.485	792.4	613.4	487.8	352.2	255.5	144.3	57.7	1687	81	82	0.4
3.150	1	0.518	651.4	585.1	520.3	432.4	350.0	232.4	105.4	6608	24	80	0.4
3.050	1	0.527	515.4	402.5	317.5	220.5	154.1	83.7	43.8	2855	71	176	0.5
2.950	1	0.53	597.0	482.1	401.5	301.1	221.9	121.5	46.2	3204	75	98	0.1
2.850	1	0.505	794.3	650.1	494.9	299.4	206.5	117.8	58.2	1796	35	140	2.6
2.749	1	0.511	579.5	468.5	358.9	257.5	190.4	115.1	58.9	2458	86	131	1.4

2.649	1	0.482	926.6	798.8	672.4	512.7	382.0	216.4	87.1	2919	18	86	0.8
2.624	1	0.516	373.1	317.4	259.1	202.1	160.1	104.5	55.6	5111	185	146	1.2
2.550	1	0.527	223.1	154.1	116.9	86.3	63.8	37.2	18.6	2952	571	321	0.5
2.449	1	0.521	565.6	481.0	403.1	318.4	251.2	174.7	95.4	3354	160	87	1.0
2.423	1	0.505	773.5	607.1	494.9	357.6	253.7	127.5	41.6	2124	58	81	0.1
2.348	1	0.522	241.4	186.4	148.9	107.3	79.1	49.6	29.5	5046	305	293	0.7
2.249	1	0.513	399.8	315.2	264.7	204.7	159.6	106.4	47.8	3146	331	120	0.3
2.149	1	0.52	418.7	370.2	329.8	276.0	224.8	145.4	63.3	9610	72	96	0.2
2.050	1	0.502	599.6	475.5	382.1	277.5	202.2	114.3	62.7	2612	75	127	0.5
1.950	1	0.521	584.5	447.4	357.4	249.9	173.3	92.7	47.0	2488	64	157	0.1
1.850	1	0.495	827.3	673.1	551.5	417.2	318.2	200.8	97.6	1972	81	72	0.6
1.824	1	0.511	764.4	578.1	457.5	317.8	215.1	102.7	46.6	1864	48	117	0.2
1.750	1	0.517	291.1	234.2	196.3	153.0	120.5	81.2	39.3	4869	405	170	0.4
1.650	1	0.478	1249.2	1001.7	821.5	574.1	398.3	191.8	82.0	1539	16	87	0.4
1.623	1	0.515	602.1	463.5	369.7	261.0	183.5	97.9	43.5	2299	78	128	0.2
1.550	1	0.494	786.4	589.5	454.9	300.4	198.4	96.4	46.8	1676	41	146	0.3
1.550	1	0.488	790.4	603.9	466.2	311.3	206.6	97.5	48.8	1796	35	149	0.4
1.450	1	0.482	734.9	534.4	392.1	245.4	148.1	53.7	26.1	1620	37	214	0.5
1.349	1	0.502	577.3	447.6	340.2	223.1	156.2	99.0	64.1	1985	92	151	1.8
1.249	1	0.514	641.4	503.9	401.8	292.8	215.2	119.8	49.0	2242	93	100	0.5
1.186	1	0.48	1150.6	886.7	697.1	465.2	315.0	169.2	81.7	1236	28	89	0.6
1.124	1	0.494	1048.6	868.6	712.8	532.8	401.0	239.5	111.9	1898	35	66	0.7
1.099	1	0.507	581.3	462.5	368.6	226.4	168.4	102.2	49.7	2390	65	157	2.1
1.049	1	0.509	420.8	342.4	251.7	166.4	107.3	48.1	30.3	3488	55	304	2.0
0.951	1	0.507	673.8	502.6	385.2	258.2	174.0	93.9	51.1	1781	62	150	0.4
0.848	1	0.468	1262.4	1097.9	866.0	565.4	387.4	194.4	91.2	1511	14	93	2.7
0.824	1	0.509	602.4	467.6	367.2	242.0	158.2	79.8	49.5	2368	49	180	1.0
0.733	1	0.495	708.5	545.9	421.4	282.8	205.1	117.4	67.9	1745	70	123	1.0
0.650	1	0.499	666.3	512.0	398.4	274.9	192.2	109.4	64.5	1921	71	131	0.8
0.605	1	0.499	781.4	603.2	465.7	314.2	214.6	115.0	51.9	1774	44	128	0.7
0.503	1	0.504	625.0	493.1	394.4	283.3	205.6	112.5	52.8	2512	67	123	0.4
0.450	1	0.514	469.8	348.6	276.5	205.6	158.0	92.6	47.7	2039	234	135	0.5
0.349	1	0.508	476.8	361.0	277.0	184.6	121.3	64.8	35.8	2676	76	222	0.6
0.250	1	0.501	511.4	401.0	317.2	216.6	145.3	68.5	33.5	3167	47	223	0.5
0.187	1	0.499	622.8	464.3	368.9	266.5	192.2	109.4	54.7	1836	116	116	0.2

Lane 2 : Target Force = 5,440 kg (12,000 pounds)													
Station	Section	Load	Deflection							Modulus			Error
			Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Asphalt	Base	Subgrade	
(km)		(kPa)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mPa)	(mPa)	(mPa)	(%rms)
14.800	3	0.729	865.2	779.7	571.3	378.3	250.6	109.5	39.4	3120	13	184	3.4
14.747	3	0.722	669.0	501.2	392.7	286.0	211.4	118.3	48.5	1860	188	91	0.4
14.650	3	0.741	684.9	524.3	401.5	274.9	188.9	97.3	44.4	2531	65	123	0.5
14.550	3	0.709	935.0	714.8	539.1	348.5	222.1	75.0	13.8	2089	28	98	0.6
14.448	3	0.732	653.1	518.3	420.8	309.8	228.6	123.4	50.7	3206	109	90	0.3
14.350	3	0.7	1073.0	809.0	588.0	377.0	246.0	97.0	30.0	1536	33	88	0.9
14.249	3	0.674	1145.5	1012.6	784.1	529.7	356.2	157.9	61.3	2557	9	125	2.5
14.149	3	0.707	723.8	601.0	505.9	394.1	304.0	175.2	72.3	3860	112	66	0.3
14.050	3	0.655	1157.4	1030.2	807.9	566.4	397.6	189.2	71.6	2766	9	104	2.3
13.944	3	0.703	861.3	646.2	470.0	284.8	170.3	58.7	19.9	2035	24	170	0.7
13.849	3	0.694	815.0	669.7	519.5	353.0	251.2	138.2	59.5	2868	30	115	1.4
13.729	3	0.708	576.4	442.9	349.0	245.2	176.0	94.9	38.6	2964	119	117	0.3
13.648	3	0.669	1327.8	1006.6	754.4	503.3	353.7	182.1	87.9	1216	34	67	0.7
13.550	3	0.653	1160.9	880.1	642.1	422.4	280.9	129.7	57.9	1420	30	86	0.9
13.394	3	0.696	768.4	542.1	395.3	274.6	198.1	109.6	49.3	1243	136	104	0.7
13.346	3	0.685	745.0	608.0	480.3	341.3	245.3	127.7	52.1	3299	40	103	0.8
13.231	3	0.708	457.8	338.1	271.9	200.7	157.2	101.8	49.4	2152	384	137	0.3
13.148	3	0.671	1021.3	832.5	661.4	475.7	335.9	164.8	61.5	2580	24	78	0.6
13.050	3	0.701	463.3	325.5	244.7	170.8	130.8	89.9	58.9	1663	323	168	1.4
13.025	3	0.705	422.0	314.8	241.3	175.7	134.0	88.4	50.6	2531	315	167	0.9
12.943	3	0.715	467.0	319.2	220.3	130.2	81.3	37.2	24.5	2449	84	309	0.6
12.850	3	0.676	912.3	689.6	509.5	334.5	223.7	114.9	57.0	1730	41	112	0.8
12.719	2	0.671	760.5	538.3	392.3	258.7	184.6	106.4	59.5	1237	95	130	0.6
12.648	2	0.702	408.8	267.2	188.5	131.6	101.7	65.8	39.9	1347	317	220	1.0
12.549	2	0.7	593.0	439.0	331.0	241.0	184.0	120.0	63.0	1621	178	123	0.9
12.451	2	0.71	468.3	312.5	227.7	171.5	134.1	87.7	45.4	1113	339	165	0.9
12.349	2	0.714	513.7	330.4	232.4	155.9	110.8	62.7	30.4	1169	206	187	0.5
12.250	2	0.688	684.7	509.7	399.9	300.1	231.0	136.3	65.1	1495	177	86	0.5
12.150	2	0.708	600.1	403.4	295.6	218.5	170.1	112.7	60.3	960	247	130	0.8
12.048	2	0.752	371.4	246.7	188.0	137.8	106.1	68.0	34.4	1526	425	196	0.2
11.950	2	0.731	621.5	524.8	449.1	362.9	288.2	184.8	95.8	4266	119	77	0.3
11.850	2	0.725	660.4	475.0	361.1	252.0	177.7	90.8	28.0	1482	147	95	0.4
11.655	2	0.705	581.8	444.8	357.4	260.1	192.6	108.2	39.7	2300	162	94	0.2
11.650	2	0.736	469.8	344.3	260.6	194.0	152.2	104.6	59.0	1724	291	144	1.0
11.550	2	0.682	808.8	688.7	490.6	374.6	302.8	208.4	110.9	1697	118	75	3.2
11.449	2	0.739	537.1	424.4	340.1	257.6	201.8	125.0	63.5	2707	180	109	0.6
11.337	2	0.752	349.1	227.1	158.2	101.5	69.8	40.0	19.5	1951	248	308	0.5
11.250	2	0.729	545.4	403.3	303.4	218.9	166.1	102.7	55.7	1867	172	140	0.8
11.150	2	0.75	267.9	189.5	152.1	113.9	87.7	55.1	27.1	2826	587	221	0.2
11.050	2	0.791	454.9	283.2	215.9	159.3	123.0	83.2	45.1	944	407	176	0.1
10.944	2	0.759	242.6	161.4	122.7	87.6	66.4	44.3	27.7	2451	589	326	0.6
10.848	2	0.739	333.4	270.0	232.1	192.3	161.0	113.7	61.6	3977	648	115	0.2
10.751	2	0.738	412.6	264.6	196.3	148.0	118.6	81.6	43.6	1060	465	185	0.7
10.650	2	0.716	562.2	447.8	346.1	257.1	198.5	126.1	72.3	2451	156	116	1.2
10.544	2	0.725	445.1	302.2	229.8	165.1	123.6	71.4	28.0	1459	324	144	0.3
10.448	2	0.744	384.8	271.9	203.2	148.7	112.9	71.5	38.6	2027	309	198	0.7
10.315	2	0.732	386.3	282.1	218.0	163.5	130.1	86.1	46.9	2161	358	171	0.7
10.249	2	0.707	633.7	455.4	333.7	242.6	190.1	131.7	72.3	1169	205	116	1.3
10.149	2	0.721	520.4	407.8	322.3	241.7	186.4	120.4	60.2	2563	187	120	0.7
10.048	2	0.699	588.8	475.7	390.6	295.4	223.3	131.2	57.1	3277	117	95	0.3
9.949	2	0.688	592.2	455.8	350.0	239.1	169.9	95.6	54.9	2403	89	149	0.8
9.849	2	0.712	346.1	253.7	195.6	142.6	114.0	77.7	56.0	2248	429	188	1.8
9.691	2	0.686	503.1	378.6	301.0	224.5	170.4	107.1	55.1	2248	216	125	0.3
9.647	2	0.708	566.5	435.0	337.1	226.4	152.3	81.1	41.5	2767	69	180	0.5
9.549	2	0.714	338.2	255.9	196.1	137.3	101.0	57.8	34.3	3730	203	240	0.7
9.449	2	0.711	408.6	311.1	239.2	174.3	135.9	89.6	56.1	2528	274	163	1.2
9.349	2	0.73	380.7	291.5	229.2	172.6	133.3	85.3	48.9	3058	284	169	0.6
9.250	2	0.713	625.4	475.2	371.1	255.3	175.7	82.5	35.3	2501	72	135	0.3
9.150	2	0.721	378.6	284.5	225.2	166.0	127.2	78.6	43.7	3066	261	181	0.3
9.050	2	0.679	746.4	584.5	453.6	322.7	232.0	129.9	66.0	2147	68	110	0.7
8.949	2	0.687	691.8	540.0	422.9	303.6	224.2	134.5	75.4	2115	96	107	0.7
8.849	2	0.694	676.8	525.5	416.6	300.6	222.9	129.1	60.5	2206	103	100	0.4
8.825	2	0.699	589.8	452.6	355.5	251.4	177.3	106.2	57.1	2458	101	137	0.4
8.750	2	0.701	570.2	446.4	353.5	259.6	196.7	120.8	63.9	2583	133	120	0.6
8.722	2	0.689	496.8	388.1	310.9	228.6	174.7	108.7	56.9	2972	160	135	0.5
8.649	2	0.684	642.7	506.6	407.3	301.9	229.2	134.1	63.5	2475	120	95	0.4
8.549	2	0.704	590.6	447.4	349.0	246.6	178.0	97.4	51.7	2327	104	136	0.4
8.449	2	0.691	633.1	498.4	387.0	266.4	195.5	108.4	51.7	2543	75	134	0.9
8.350	2	0.692	544.2	419.8	324.7	237.7	176.0	109.2	59.7	2413	145	133	0.7

8.244	2	0.7	521.0	409.0	315.0	230.0	172.0	103.0	52.0	2794	131	140	0.9
8.121	2	0.699	546.8	412.6	314.4	221.3	171.2	111.2	78.1	1828	192	129	1.7
8.070	2	0.701	376.5	311.6	261.6	205.7	164.8	101.9	48.9	5523	249	123	0.5
7.617	2	0.692	636.3	516.9	415.8	313.6	239.7	147.7	73.8	2882	105	99	0.7
7.454	2	0.679	809.3	627.8	496.9	342.3	236.1	106.2	43.3	2233	43	110	0.3
7.449	2	0.7	598.0	457.0	359.0	256.0	189.0	108.0	52.0	2307	119	119	0.4
7.349	2	0.685	650.9	493.6	385.3	280.0	202.3	114.5	53.1	2017	119	105	0.4
7.201	2	0.682	584.0	447.5	326.4	210.4	148.8	85.2	49.3	2144	88	170	1.5
7.149	2	0.708	447.9	354.0	283.8	214.5	164.1	99.9	56.4	3477	181	143	0.6
7.098	2	0.684	465.6	351.0	264.0	182.2	134.1	74.7	37.9	2589	144	179	0.9
7.050	2	0.695	573.1	440.1	334.4	251.8	199.4	135.0	80.6	1722	222	110	1.4
6.950	2	0.682	441.3	334.6	248.4	169.4	125.2	82.1	49.3	2451	182	182	1.5
6.848	2	0.692	554.3	424.9	326.7	226.6	159.8	103.2	58.7	2310	123	145	1.0
6.750	2	0.675	749.8	562.1	429.3	297.6	213.6	121.3	59.1	1676	88	109	0.5
6.650	2	0.702	509.5	369.9	268.2	176.5	124.6	71.8	36.9	2049	125	197	0.9
6.550	2	0.662	1076.4	941.1	730.7	500.2	342.6	154.4	57.1	2261	15	127	2.2
6.524	2	0.662	924.2	702.1	527.6	354.2	243.2	127.9	66.6	1528	48	110	0.7
6.500	2	0.672	887.5	705.2	556.3	406.2	295.8	168.8	82.3	1958	59	83	0.6
6.466	2	0.657	1009.0	799.1	599.8	388.9	258.9	110.8	66.1	1673	28	126	1.3
6.450	2	0.684	728.7	556.7	442.1	313.2	228.2	134.1	71.6	1985	87	107	0.2
6.400	2	0.672	766.7	588.5	457.3	334.4	252.1	144.8	65.6	1680	114	83	0.7
6.350	1	0.68	567.2	438.5	342.8	253.2	188.4	110.1	54.6	2167	130	119	0.7
6.250	1	0.689	640.1	489.7	379.0	271.3	197.1	109.7	54.9	1944	90	121	0.6
6.149	1	0.646	928.6	730.3	573.2	409.6	278.5	143.0	67.2	1746	31	106	0.5
6.100	1	0.673	562.7	423.3	324.5	229.9	171.6	101.9	51.0	1880	133	134	0.7
6.050	1	0.691	476.1	357.6	275.5	197.5	143.8	84.1	41.5	2299	149	159	0.5
5.950	1	0.711	487.3	372.2	295.4	208.7	149.6	82.7	41.4	2744	102	166	0.2
5.816	1	0.708	467.7	348.0	254.1	164.1	112.7	64.3	35.6	2232	101	225	1.2
5.750	1	0.688	721.4	526.0	388.7	264.5	186.2	99.7	37.6	1322	96	110	0.8
5.646	1	0.715	372.0	277.1	203.6	132.2	91.0	49.0	21.5	2925	122	271	1.0
5.544	1	0.711	471.6	400.7	329.8	251.1	193.0	120.1	61.0	4432	92	130	1.0
5.500	1	0.678	789.8	579.2	456.3	335.5	258.1	162.1	83.6	1115	144	85	0.3
5.449	1	0.688	473.1	346.9	256.4	170.9	117.0	58.0	25.4	2205	112	191	0.7
5.350	1	0.699	323.5	247.4	194.3	141.2	104.1	57.1	31.0	3892	188	234	0.6
5.350	1	0.696	362.1	271.6	214.2	151.9	109.6	56.3	25.1	3325	176	196	0.4
5.241	1	0.685	176.8	142.0	117.5	93.0	73.6	48.0	24.5	7880	664	287	0.4
5.150	1	0.684	386.8	330.6	285.5	228.2	182.2	120.8	57.3	6309	178	118	0.4
5.049	1	0.687	453.4	380.1	319.9	246.6	189.5	115.1	48.9	4702	111	117	0.5
4.950	1	0.691	459.9	365.7	295.8	220.8	166.1	103.3	51.7	3223	143	142	0.5
4.850	1	0.694	287.5	237.0	204.8	168.4	137.2	93.8	46.4	5443	597	133	0.2
4.749	1	0.661	522.1	418.3	346.3	264.8	203.3	125.0	60.4	3015	150	107	0.2
4.649	1	0.672	359.4	290.6	237.5	176.0	132.3	82.3	45.8	4439	167	181	0.7
4.550	1	0.709	731.6	551.9	442.3	329.8	253.7	147.1	70.1	1442	147	81	0.4
4.482	1	0.752	326.7	306.3	283.9	260.6	242.0	210.4	165.7	7476	2849	54	1.7
4.470	1	0.743	316.6	300.5	279.8	258.1	242.1	213.9	171.5	16301	2741	50	1.8
4.460	1	0.742	282.1	256.6	234.9	212.3	194.3	167.9	134.0	5491	3400	72	2.5
4.450	1	0.689	270.2	246.9	228.6	208.3	191.0	171.7	139.2	5452	5026	67	2.6
4.439	1	0.723	395.0	379.5	348.5	317.6	293.4	252.7	198.5	8280	1843	46	2.0
4.427	1	0.718	441.6	424.1	397.8	367.5	339.3	296.4	231.1	9306	1741	38	1.4
4.419	1	0.714	336.3	303.9	284.3	261.8	240.2	211.8	171.6	3869	4477	54	2.2
4.409	1	0.718	341.2	325.6	305.2	282.7	264.2	234.0	190.1	18023	2533	44	1.8
4.400	1	0.714	703.9	677.5	628.4	577.5	523.5	442.2	309.8	8212	526	29	1.0
4.380	1	0.719	447.8	423.5	395.3	363.1	336.9	294.0	232.7	6513	2025	38	1.7
4.380	1	0.725	400.7	380.4	355.3	329.2	305.1	266.5	208.6	8084	2191	42	1.4
4.370	1	0.718	365.6	340.3	315.9	290.5	271.0	236.9	187.2	5883	2908	48	1.7
4.360	1	0.723	300.1	239.1	203.3	155.9	113.3	62.9	30.0	6742	125	222	0.6
4.350	1	0.722	284.1	218.1	172.6	133.8	103.7	64.0	26.2	3440	495	176	0.7
4.249	1	0.688	385.6	296.1	233.0	167.9	125.1	74.3	36.6	3192	174	188	0.5
4.149	1	0.693	376.8	336.4	300.0	253.5	210.1	145.5	72.7	10324	140	101	0.3
4.049	1	0.66	772.1	659.7	557.9	438.0	342.6	204.7	73.2	3167	71	56	0.6
3.849	1	0.683	242.9	198.8	168.1	133.2	109.7	77.9	49.2	5214	713	189	1.2
3.849	1	0.716	156.4	127.1	108.5	85.1	68.4	45.9	28.4	9391	818	316	0.8
3.750	1	0.697	364.6	294.3	241.0	183.8	142.6	91.4	49.2	4175	219	163	0.5
3.649	1	0.673	477.4	389.0	321.4	244.4	185.1	112.3	49.9	3547	138	116	0.4
3.549	1	0.675	435.6	351.6	284.1	209.5	119.3	71.6	37.3	4053	54	230	2.1
3.448	1	0.677	540.8	452.9	380.5	286.4	214.0	107.5	26.9	4595	45	104	0.4
3.345	1	0.698	336.0	285.8	246.7	199.6	159.5	100.3	34.1	6617	350	92	0.3
3.249	1	0.658	764.9	598.9	479.8	351.1	259.6	146.8	58.5	1821	89	79	0.4
3.150	1	0.692	641.3	578.6	510.8	425.9	346.0	227.6	96.1	6682	31	69	0.6
3.050	1	0.688	496.5	391.7	311.3	217.7	155.7	85.5	42.7	3112	73	175	0.6
2.950	1	0.683	616.0	498.1	414.1	311.6	232.7	127.1	46.1	3017	87	87	0.2
2.850	1	0.66	791.2	653.3	495.3	305.5	215.3	122.0	58.3	1850	35	135	2.6
2.749	1	0.688	553.5	452.8	348.0	252.3	188.2	112.9	57.0	2733	86	134	1.5

2.649	1	0.65	938.0	806.6	680.6	524.5	396.3	232.6	87.2	2880	23	68	0.7
2.624	1	0.696	357.0	299.7	245.4	191.1	150.9	101.6	50.3	4929	227	150	1.0
2.550	1	0.698	219.6	153.4	118.3	87.2	65.2	38.1	19.1	3203	585	311	0.4
2.449	1	0.676	564.3	482.5	405.9	321.0	255.8	176.0	92.2	3648	142	88	0.9
2.423	1	0.651	821.5	652.7	530.1	386.0	275.3	138.7	40.9	2070	55	72	0.2
2.348	1	0.7	233.0	182.0	144.0	105.0	77.0	46.0	27.0	5673	269	312	0.7
2.249	1	0.683	401.8	322.8	270.6	208.1	164.0	106.6	48.2	3612	277	121	0.4
2.149	1	0.692	416.8	368.2	327.7	275.1	225.6	146.7	64.7	9283	104	88	0.2
2.050	1	0.663	593.4	473.0	374.8	272.4	197.4	113.0	52.8	2646	73	129	0.7
1.950	1	0.679	587.6	459.8	368.0	260.8	182.5	95.9	47.4	2751	54	157	0.2
1.850	1	0.652	839.6	685.0	560.4	427.3	327.5	207.2	98.8	1996	79	71	0.6
1.824	1	0.666	788.3	604.4	479.3	335.3	230.2	106.2	46.2	1935	41	115	0.3
1.750	1	0.693	290.9	235.4	196.0	154.5	121.2	79.8	39.4	5096	384	170	0.4
1.650	1	0.627	1272.7	1029.3	839.6	595.1	415.3	194.3	63.6	1582	15	80	0.4
1.623	1	0.664	613.6	475.5	377.4	268.8	189.8	98.0	40.1	2382	74	121	0.3
1.550	1	0.658	772.3	596.8	459.6	305.3	204.3	94.7	45.7	1896	34	157	0.6
1.550	1	0.653	761.1	606.7	465.2	311.9	208.0	97.5	45.0	2074	30	161	1.1
1.450	1	0.649	706.5	531.7	389.4	247.0	155.3	52.9	25.9	1881	31	260	0.9
1.349	1	0.665	588.4	460.0	347.4	229.5	164.2	100.0	67.4	1979	90	146	1.9
1.249	1	0.674	639.8	507.9	405.0	297.0	220.2	121.5	44.7	2315	99	92	0.6
1.186	1	0.629	1061.7	939.3	739.0	497.5	339.4	175.8	76.8	1945	22	72	3.4
1.124	1	0.648	1091.0	908.5	742.1	554.2	419.1	244.1	100.5	1834	36	57	0.8
1.099	1	0.681	580.8	462.6	369.0	230.2	172.7	104.8	49.3	2424	67	153	2.0
1.049	1	0.673	409.8	334.9	246.5	163.3	107.1	46.8	29.1	3658	55	313	2.0
0.951	1	0.665	685.3	518.9	396.8	267.4	183.2	95.8	48.4	1831	57	147	0.6
0.848	1	0.621	1282.8	1103.5	869.1	579.4	397.9	193.9	84.5	1526	13	94	2.2
0.824	1	0.674	610.7	478.8	377.0	250.3	164.1	78.9	48.8	2460	44	183	1.1
0.733	1	0.655	725.6	564.3	436.0	296.0	214.8	120.8	68.4	1791	64	120	1.0
0.650	1	0.671	662.4	516.4	400.6	278.5	195.1	109.5	63.6	2040	66	132	0.9
0.605	1	0.647	819.0	637.2	492.3	332.1	227.2	117.9	50.9	1775	37	128	0.8
0.503	1	0.662	640.8	507.6	406.0	294.0	213.6	117.4	52.9	2474	68	114	0.5
0.450	1	0.668	467.4	353.1	279.8	211.7	164.5	97.5	49.3	2147	244	128	0.6
0.349	1	0.676	485.7	368.6	283.7	191.6	127.4	67.3	36.2	2701	74	214	0.5
0.250	1	0.664	501.8	391.1	308.9	213.0	145.5	66.4	32.7	3226	49	224	0.4
0.187	1	0.666	597.0	450.9	357.4	259.6	188.1	108.3	51.5	1980	122	116	0.2

Appendix F

Summary of Field Deflection Results

M3
Date-Time: 9-25-2002 6: 9:44
Sensors: Chop201F Chop202F Chop203F Chop204F Chop205F Chop206F Chop207F
Weight/spring: 3
Location: Mesa Verde
Temp: 47.00
Operator: Adrian Elizondo
Note: ambient 47 start point at 0.000 lane 1
1 1 0.000 1 6.04 14.61 10.51 8.04 5.56 3.97 2.32 1.22 54.2
1 1 0.000 1 9.00 21.33 15.42 11.88 8.25 5.96 3.44 1.75 54.2
1 1 0.000 1 11.88 28.23 20.59 15.48 10.80 7.84 4.47 2.20 54.2
1 1 0.000 1 0.00 8.57 6.28 5.23 3.88 2.79 1.71 3.14 54.2
Note: ambient 47 start point at 0.000 lane 1
2 1 0.100 1 6.16 11.19 7.97 6.35 4.48 3.13 1.83 0.96 52.0
2 1 0.100 1 9.15 16.64 11.96 9.48 6.73 4.78 2.70 1.39 52.0
2 1 0.100 1 12.12 22.03 15.84 12.55 8.89 6.42 3.67 1.83 52.0
2 1 0.100 1 0.00 6.69 4.73 4.10 3.11 2.25 1.25 0.67 52.0
Note: ambient 47 start point at 0.000 lane 1
3 1 0.200 1 6.12 7.77 5.87 4.63 3.29 2.44 1.61 0.97 52.4
3 1 0.200 1 9.34 11.83 9.01 7.09 5.05 3.78 2.43 1.41 52.4
3 1 0.200 1 8.04 2.21 1.43 1.11 0.67 0.56 0.78 0.21 52.4
3 1 0.200 1 12.28 15.72 12.33 9.65 6.90 5.20 3.32 1.92 52.4
Note: ambient 47 start point at 0.000 lane 1
4 1 0.300 1 6.12 10.08 8.50 6.97 5.04 3.66 2.05 0.97 52.0
4 1 0.300 1 9.03 15.61 13.08 10.71 7.80 5.65 3.10 1.44 52.0
4 1 0.300 1 7.56 2.99 2.55 2.14 1.65 1.24 0.86 0.58 52.0
4 1 0.300 1 11.68 20.90 17.36 14.15 10.35 7.49 4.14 1.90 52.0
Note: ambient 47 start point at 0.000 lane 1
5 1 0.400 1 6.14 9.62 7.49 5.41 2.78 2.23 1.61 1.03 53.8
5 1 0.400 1 9.14 14.55 11.54 8.36 4.31 3.42 2.34 1.47 53.8
5 1 0.400 1 0.00 6.36 5.42 4.14 1.72 1.16 0.64 2.25 53.8
5 1 0.400 1 12.06 19.41 15.64 11.29 5.94 4.75 3.19 1.97 53.8
Note: ambient 49 start point at 0.000 lane 1
6 1 0.500 1 6.08 11.48 8.84 6.87 4.78 3.31 1.84 1.05 53.5
6 1 0.500 1 8.93 17.57 13.70 10.65 7.44 5.27 2.88 1.57 53.5
6 1 0.500 1 7.64 2.16 1.38 1.21 1.04 0.73 2.61 0.29 53.5
6 1 0.500 1 11.73 23.46 18.27 14.19 9.91 7.11 3.84 1.97 53.5
Note: ambient 49 start point at 0.000 lane 1 going SW
7 1 0.599 1 5.81 13.87 11.46 8.87 5.95 4.23 2.49 1.33 56.0
7 1 0.599 1 8.51 22.19 17.18 13.14 8.81 6.24 3.58 1.86 56.0
7 1 0.599 1 0.00 10.77 8.65 6.82 4.04 2.54 1.66 2.82 56.0
7 1 0.599 1 11.71 30.50 23.76 18.23 12.32 8.77 4.90 2.48 56.0
Note: ambient 49 start point at 0.000 lane 1 going SW
8 1 0.700 1 5.99 11.74 10.21 8.01 5.45 3.67 2.16 1.24 54.9
8 1 0.700 1 9.25 18.32 14.09 11.05 7.53 5.24 3.15 1.87 54.9
8 1 0.700 1 12.32 23.58 18.89 14.83 10.17 7.17 4.20 2.42 54.9
8 1 0.700 1 12.59 23.19 18.81 14.79 10.13 7.19 4.19 2.46 54.9
Note: ambient 49 start point at 0.000 lane 1 going SW
9 1 0.800 1 5.99 12.15 10.11 8.58 6.69 5.18 3.30 1.74 56.0
9 1 0.800 1 9.17 18.51 15.47 13.12 10.31 8.05 5.11 2.58 56.0
9 1 0.800 1 7.79 7.51 6.05 6.02 5.26 4.19 2.83 0.58 56.0
9 1 0.800 1 11.86 24.52 20.54 17.37 13.73 10.83 6.94 3.27 56.0
Note: ambient 49 start point at 0.000 lane 1 going SW
10 1 0.901 1 6.10 8.88 7.48 6.07 4.42 3.19 1.56 0.91 57.1
10 1 0.901 1 9.12 13.36 11.08 8.98 6.59 4.81 2.24 1.32 57.1
10 1 0.901 1 8.00 3.09 2.57 2.14 1.52 1.04 0.50 0.23 57.1
10 1 0.901 1 12.17 17.22 14.24 11.58 8.57 6.37 2.97 1.74 57.1
Note: ambient 53start point at 0.000 lane 1 going SW
11 1 1.050 1 5.99 9.10 7.27 5.34 3.41 2.20 1.27 0.70 79.5
11 1 1.050 1 8.95 13.41 10.38 7.65 4.91 3.28 1.84 1.00 79.5
11 1 1.050 1 7.60 2.84 2.17 1.51 0.89 0.75 0.41 0.39 79.5

```
11 1   1.050 1 11.66 17.33 13.37  9.90  6.45  4.29  2.53  1.39  79.5
Note: ambient 72 Entrance Lane 1 Heading S.W
12 1   1.099 1  6.12 11.08  8.80  6.84  4.75  3.29  1.69  0.83  82.4
12 1   1.099 1  9.26 15.89 11.52  8.90  6.22  4.38  2.24  1.09  82.4
12 1   1.099 1  8.62 12.06  8.27  6.46  3.95  1.76  0.50  0.25  82.4
12 1   1.099 1 12.18 20.34 15.06 11.68  8.21  5.87  3.04  1.41  82.4
Note: ambient 72 Entrance Lane 1 Heading S.W
13 1   1.200 1  6.13  8.02  6.41  5.11  3.43  1.82  1.26  0.74  80.6
13 1   1.200 1  8.92 11.55  9.26  7.38  4.97  2.60  1.82  1.10  80.6
13 1   1.200 1  8.39  0.94  0.68  0.80  4.96  2.50  1.75  1.08  80.6
13 1   1.200 1 11.89 15.07 12.19  9.70  6.54  3.45  2.43  1.48  80.6
Note: ambient 72 Entrance Lane 1 Heading S.W
14 1   1.300 1  6.18 10.18  8.71  7.43  5.74  4.18  2.06  0.68  86.4
14 1   1.300 1  8.56 15.14 12.78 10.90  8.31  6.04  2.99  0.80  86.4
14 1   1.300 1 11.60 20.62 17.62 15.00 11.43  8.38  4.09  0.95  86.4
14 1   1.300 1 11.47 20.50 17.51 14.93 11.40  8.34  4.03  1.01  86.4
Note: ambient 72 Entrance Lane 1 Heading S.W
15 1   1.401 1  6.02 14.72 11.88  9.36  6.50  4.48  2.31  0.97  80.9
15 1   1.401 1  8.70 21.73 17.45 13.77  9.62  6.70  3.34  1.33  80.9
15 1   1.401 1 11.41 28.61 23.18 18.27 12.81  9.00  4.50  1.83  80.9
15 1   1.401 1 11.62 28.44 23.15 18.26 12.83  9.07  4.54  1.83  80.9
Note: ambient 72  Lane 1 Heading S.W
16 1   1.517 1  6.04 15.79 12.69  9.59  6.82  5.02  3.00  1.44  82.8
16 1   1.517 1  8.84 23.67 18.92 14.30 10.18  7.47  4.36  1.94  82.8
16 1   1.517 1  0.00  7.93  6.74  5.42  4.09  3.05  2.19  2.37  82.8
16 1   1.517 1 11.40 26.82 25.21 19.20 13.72 10.10  5.84  2.49  82.8
Note: ambient 72  Lane 1 Heading S.W aligator cracking
17 1   1.554 1  6.19 12.35  9.77  7.87  5.83  4.25  2.48  1.32  81.7
17 1   1.554 1  9.15 19.11 15.33 12.32  9.09  6.63  3.74  1.84  81.7
17 1   1.554 1  8.40  3.07  2.41  1.99  1.44  0.94  0.50  0.26  81.7
17 1   1.554 1 11.73 25.00 20.29 16.31 12.09  8.82  4.95  2.30  81.7
Note: ambient 72  Lane 1 Heading S.W aligator cracking  B-2 Mile marker
18 1   1.601 1  5.92 13.82 11.01  9.08  6.72  5.03  2.98  1.51  81.7
18 1   1.601 1  8.75 21.49 17.15 14.14 10.48  7.76  4.53  2.12  81.7
18 1   1.601 1 11.38 29.43 23.70 19.57 14.56 10.86  6.21  2.86  81.7
18 1   1.601 1 11.62 29.38 23.80 19.68 14.68 10.97  6.31  2.94  81.7
Note: ambient 72  Lane 1 Heading S aligator cracking  B
19 1   1.625 1  6.10 10.73  8.74  6.96  5.16  3.85  2.46  1.35  82.0
19 1   1.625 1  8.99 16.05 12.72 10.06  7.47  5.63  3.55  1.91  82.0
19 1   1.625 1 11.64 21.48 17.19 13.60 10.10  7.64  4.70  2.50  82.0
19 1   1.625 1 11.78 21.17 17.02 13.48 10.05  7.61  4.72  2.54  82.0
Note: ambient 72  Lane 1 Heading S aligator cracking
20 1   1.715 1  5.85 15.98 13.65 11.38  8.73  5.90  3.41  1.74  81.7
20 1   1.715 1  8.48 23.64 20.48 17.11 13.17  8.96  5.06  2.42  81.7
20 1   1.715 1 11.40 32.18 27.71 23.15 17.84 12.28  6.84  3.08  81.7
20 1   1.715 1  7.28  4.07  3.54  3.12  2.46  1.55  0.92  0.88  81.7
Note: ambient 74  Lane 1 Heading S aligator cracking
21 1   1.750 1  5.93 13.28 10.34  8.14  5.61  3.90  2.11  0.95  78.7
21 1   1.750 1  8.59 20.30 15.98 12.56  8.70  6.06  3.17  1.37  78.7
21 1   1.750 1 11.34 26.93 21.11 16.55 11.54  8.17  4.27  1.79  78.7
21 1   1.750 1  7.16  3.34  2.72  2.21  1.55  0.97  0.54  0.67  78.7
Note: ambient 74  Lane 1 Heading S aligator cracking  test @ 50 meters
22 1   1.801 1  5.99 13.46 10.87  8.30  5.86  4.37  2.85  1.66  80.2
22 1   1.801 1  8.66 19.49 15.76 12.00  8.62  6.49  4.23  2.45  80.2
22 1   1.801 1  7.47  2.41  1.46  1.21  2.63  2.50  2.07  1.63  80.2
22 1   1.801 1 11.51 26.08 20.61 15.75 11.54  8.73  5.77  3.27  80.2
Note: ambient 74  Lane 1 Heading S aligator cracking
23 1   1.851 1  6.15 15.66 12.27  9.26  6.45  4.49  2.55  1.44  80.6
23 1   1.851 1  8.79 22.13 17.61 13.23  9.29  6.51  3.48  1.70  80.6
23 1   1.851 1  7.93  3.79  3.10  2.30  1.57  0.94  0.50  0.33  80.6
23 1   1.851 1 11.45 28.65 22.96 17.35 12.25  8.82  4.75  1.99  80.6
```

Note: ambient 74 Lane 1 Heading S big aligator cracking test @ 50 meters
24 1 1.900 1 6.21 13.89 11.58 9.49 6.89 5.05 2.84 1.04 81.7
24 1 1.900 1 8.94 20.35 17.21 14.09 10.26 7.52 4.14 1.50 81.7
24 1 1.900 1 7.99 3.70 3.32 2.65 1.88 2.21 1.65 1.19 81.7
24 1 1.900 1 11.57 26.67 22.83 18.67 13.70 10.08 5.52 1.95 81.7
Note: ambient 74 Lane 1 Heading S big aligator cracking
25 1 2.000 1 5.92 14.67 13.02 11.03 8.27 6.01 3.14 1.05 83.5
25 1 2.000 1 8.50 22.22 19.83 16.78 12.70 9.26 4.88 1.45 83.5
25 1 2.000 1 7.07 3.73 3.39 3.03 2.40 1.77 0.99 0.78 83.5
25 1 2.000 1 11.27 30.11 26.95 22.75 17.32 12.75 6.80 1.72 83.5
Note: ambient 75 Lane 1 Heading S big aligator cracking
26 1 2.100 1 5.80 10.86 7.99 6.41 4.56 3.21 1.71 0.74 86.4
26 1 2.100 1 8.73 16.29 12.37 9.90 7.05 4.95 2.67 1.04 86.4
26 1 2.100 1 11.55 21.87 16.86 13.40 9.59 6.80 3.60 1.35 86.4
26 1 2.100 1 11.55 21.88 17.03 13.47 9.68 6.87 3.65 1.36 86.4
Note: ambient 75 Lane 1 Heading S patch
27 1 2.202 1 6.01 6.52 5.79 4.97 3.94 3.01 1.73 0.84 82.4
27 1 2.202 1 8.99 9.64 8.45 7.27 5.78 4.47 2.55 1.20 82.4
27 1 2.202 1 11.39 12.62 9.78 8.33 6.55 5.06 3.00 1.50 82.4
27 1 2.202 1 7.96 2.79 1.95 1.90 1.44 1.04 0.32 0.46 82.4
Note: ambient 75 Lane 1 Heading East
28 1 2.300 1 5.54 12.98 11.40 9.45 7.37 5.83 4.04 2.39 75.8
28 1 2.300 1 8.77 19.28 15.59 12.52 9.48 7.44 4.86 2.47 75.8
28 1 2.300 1 0.00 3.16 2.13 2.36 8.67 8.36 6.92 4.59 75.8
28 1 2.300 1 11.75 26.72 22.22 18.00 13.86 10.99 7.31 3.94 75.8
Note: ambient 75 Lane 1 Heading N.E
29 1 2.327 1 6.38 10.97 8.36 6.45 4.27 3.05 1.78 0.86 86.4
29 1 2.327 1 8.78 16.14 12.58 9.73 6.42 4.59 2.63 1.21 86.4
29 1 2.327 1 8.12 2.91 2.34 1.87 1.13 0.95 0.94 1.16 86.4
29 1 2.327 1 11.68 21.51 17.01 13.23 8.83 6.36 3.69 1.62 86.4
Note: ambient 75 Lane 1 Heading N.E test @ 25
30 1 2.400 1 6.31 5.46 3.95 3.13 2.33 1.82 1.16 0.70 84.2
30 1 2.400 1 9.15 7.83 5.76 4.59 3.45 2.71 1.82 0.99 84.2
30 1 2.400 1 12.07 10.13 7.65 6.06 4.58 3.62 2.36 1.33 84.2
30 1 2.400 1 11.95 9.85 7.48 5.93 4.50 3.53 2.33 1.30 84.2
Note: ambient 75 Lane 1 Heading N.E
31 1 2.425 1 5.87 8.12 6.38 5.22 3.86 2.90 1.71 0.81 84.2
31 1 2.425 1 8.89 11.96 9.21 7.49 5.55 4.13 2.44 1.11 84.2
31 1 2.425 1 11.75 15.73 12.38 10.10 7.53 5.75 3.34 1.48 84.2
31 1 2.425 1 11.79 15.37 12.23 10.02 7.48 5.73 3.38 1.50 84.2
Note: ambient 75 Lane 1 Heading S.E Test @ 25 meters
32 1 2.500 1 5.52 20.16 17.38 14.00 10.10 7.31 4.15 1.93 83.9
32 1 2.500 1 7.93 30.34 26.12 20.92 15.13 10.94 5.99 2.56 83.9
32 1 2.500 1 10.89 36.90 33.40 26.45 19.30 14.06 8.01 3.30 83.9
32 1 2.500 1 0.00 12.31 10.46 8.48 6.40 4.71 3.04 4.48 83.9
Note: ambient 75 Lane 1 Heading West.aligator cracking
33 1 2.524 1 5.68 15.14 12.79 9.92 6.76 4.44 2.18 0.94 80.9
33 1 2.524 1 8.24 23.17 17.23 13.23 8.97 5.93 2.94 1.18 80.9
33 1 2.524 1 11.50 30.95 23.86 18.50 12.66 8.49 4.14 1.57 80.9
33 1 2.524 1 7.51 3.88 2.98 2.30 1.62 0.98 0.83 0.81 80.9
Note: ambient 75 Lane 1 Heading West.aligator cracking test @ 25 meters
34 1 2.600 1 6.41 3.61 2.86 2.44 1.96 1.59 1.05 0.00 81.7
34 1 2.600 1 9.22 5.09 4.06 3.44 2.78 2.26 1.52 0.59 81.7
34 1 2.600 1 5.58 8.52 5.83 4.92 3.96 3.18 2.14 0.80 81.7
34 1 2.600 1 12.00 6.62 5.42 4.64 3.73 3.03 2.05 0.77 81.7
Note: ambient 75 Lane 1 Heading N. West.aligator cracking
35 1 2.700 1 5.74 4.70 3.88 3.40 2.83 2.35 1.76 1.09 69.2
35 1 2.700 1 8.64 7.30 6.06 5.26 4.39 3.61 2.59 1.58 69.2
35 1 2.700 1 6.98 10.78 8.85 7.61 6.26 5.08 3.62 2.19 69.2
35 1 2.700 1 11.16 9.80 8.20 7.11 5.90 4.88 3.51 2.13 69.2
Note: ambient 77 Lane 1 Heading S. West.aligator cracking

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36 1   2.726 1  5.75  6.33  5.50  4.91  4.04  3.26  2.22  1.16  73.2
36 1   2.726 1  8.01  9.52  8.43  7.42  6.15  5.04  3.37  1.78  73.2
36 1   2.726 1 10.74 12.94 11.44 10.07  8.32  6.88  4.66  2.43  73.2
36 1   2.726 1 11.02 12.94 11.44 10.10  8.33  6.92  4.70  2.31  73.2
Note: ambient 77 Lane 1 Heading S. West.aligator cracking test @ 25 meters
37 1   2.751 1  6.13  6.49  5.93  5.40  4.72  4.08  3.01  1.64  76.9
37 1   2.751 1  8.97  9.56  8.75  7.97  6.99  6.06  4.42  2.41  76.9
37 1   2.751 1  8.42  1.06  0.92  1.00  1.09  1.14  0.92  1.20  76.9
37 1   2.751 1 11.94 12.62 11.58 10.50  9.25  8.06  5.87  3.17  76.9
Note: ambient 77 Lane 1 Heading S. West.aligator cracking test @ 25 meters
38 1   2.801 1  6.38  7.42  6.48  5.74  4.78  3.90  2.70  1.38  77.6
38 1   2.801 1  9.04 10.23  8.93  7.90  6.61  5.44  3.75  1.81  77.6
38 1   2.801 1 11.99 13.41 11.78 10.36  8.68  7.16  4.89  2.42  77.6
38 1   2.801 1  0.00  3.38  2.97  2.78  2.31  2.88  1.13  2.10  77.6
Note: ambient 77 Lane 1 Heading S. West.aligator cracking
39 1   2.851 1  6.10  9.58  8.57  7.40  6.00  4.84  3.25  1.63  78.7
39 1   2.851 1  8.84 13.40 11.94 10.30  8.36  6.81  4.53  2.22  78.7
39 1   2.851 1  0.07  5.17  4.50  4.10  3.62  2.78  5.30  3.42  78.7
39 1   2.851 1 11.85 17.31 15.43 13.27 10.79  8.87  5.87  2.85  78.7
Note: ambient 77 Lane 1 Heading S. West.aligator cracking
40 1   2.901 1  5.92 10.02  9.30  8.39  7.20  6.13  4.51  2.48  78.4
40 1   2.901 1  8.37 14.30 13.21 11.85 10.21  8.75  6.39  3.47  78.4
40 1   2.901 1  7.27  2.31  1.71  1.73  1.64  1.52  1.36  1.26  78.4
40 1   2.901 1 11.31 19.02 17.51 15.69 13.58 11.85  8.61  4.76  78.4
Note: ambient 77 Lane 1 Heading S. West.aligator cracking 39 was tested @ 50
meters
41 1   2.951 1  6.15  7.97  7.18  6.51  5.62  4.81  3.46  1.90  79.1
41 1   2.951 1  9.03 11.40 10.41  9.37  8.13  6.96  5.02  2.69  79.1
41 1   2.951 1  8.54  2.55  1.98  2.20  2.00  1.63  0.91  1.22  79.1
41 1   2.951 1 12.02 14.89 13.60 12.21 10.62  9.12  6.56  3.51  79.1
Note: ambient 77 Lane 1 Heading S. West.aligator cracking  tested @ 50 meters
42 1   3.000 1  6.46  6.68  6.01  5.46  4.77  4.11  3.09  1.83  77.6
42 1   3.000 1  9.17  9.46  8.47  7.64  6.68  5.77  4.29  2.38  77.6
42 1   3.000 1 12.05 12.51 11.21 10.08  8.83  7.63  5.65  3.15  77.6
42 1   3.000 1 12.08 12.44 11.17 10.04  8.82  7.61  5.65  3.13  77.6
Note: ambient 77 Lane 1 Heading S. West.aligator cracking  Tested 50 meters
43 1   3.097 1  6.02 12.94 10.49  8.49  6.23  4.61  2.48  0.94  65.6
43 1   3.097 1  8.76 19.37 15.74 12.77  9.49  7.06  3.87  1.44  65.6
43 1   3.097 1  7.93  3.28  2.87  2.91  2.79  2.32  1.61  1.57  65.6
43 1   3.097 1 11.61 26.08 21.05 17.05 12.75  9.65  5.29  1.94  65.6
Note: ambient 79 Lane 1 Heading E. B3  mile 2
44 1   3.201 1  6.10  6.92  5.47  4.47  3.34  2.57  1.64  0.97  73.2
44 1   3.201 1  9.14 10.20  8.22  6.74  5.12  3.99  2.49  1.41  73.2
44 1   3.201 1 11.95 13.21 10.83  8.90  6.79  5.33  3.28  1.83  73.2
44 1   3.201 1 11.89 13.14 10.81  8.87  6.81  5.35  3.31  1.87  73.2
Note: ambient 79 Lane 1 Heading S. E.
45 1   3.301 1  6.09  9.94  7.61  5.75  3.83  2.52  1.03  0.00  70.3
45 1   3.301 1  8.87 14.58 11.26  8.49  5.72  3.76  1.51  0.28  70.3
45 1   3.301 1  8.02  0.95  0.49  0.43  0.38  3.76  1.52  0.29  70.3
45 1   3.301 1 11.71 18.52 14.50 10.87  7.40  4.97  2.02  0.36  70.3
Note: ambient 79 Lane 1 Heading S. E.
46 1   3.400 1  6.47  5.78  4.37  3.56  2.73  2.12  1.30  0.64  76.9
46 1   3.400 1  9.31  8.15  6.29  5.15  3.94  3.02  1.85  0.91  76.9
46 1   3.400 1 12.23 10.84  8.40  6.91  5.30  4.10  2.54  1.25  76.9
46 1   3.400 1 12.22 10.74  8.37  6.89  5.30  4.10  2.55  1.22  76.9
Note: ambient 79 Lane 1 Heading S. patch
47 1   3.502 1  5.79 13.92 12.00  9.34  6.51  4.54  2.41  1.20  73.6
47 1   3.502 1  8.45 20.72 16.22 12.60  8.83  6.21  3.36  1.50  73.6
47 1   3.502 1 11.13 27.11 21.42 16.66 11.79  8.39  4.51  1.97  73.6
47 1   3.502 1 11.23 27.19 21.53 16.79 11.90  8.45  4.55  2.01  73.6
Note: ambient 77 Lane 1 Heading S.E patch
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48 1   3.601 1  6.09 15.81 13.86 11.71  9.01  6.75  3.89  1.60  75.1
48 1   3.601 1  8.72 23.82 20.99 17.63 13.58 10.29  5.80  2.16  75.1
48 1   3.601 1 11.66 32.10 28.28 23.75 18.35 13.92  7.86  2.81  75.1
48 1   3.601 1 11.53 32.17 28.31 23.86 18.47 14.09  7.96  2.85  75.1
Note: ambient 77 Lane 1 Heading S.E patch
49 1   3.625 1  5.96 10.26  8.24  6.71  4.83  3.49  2.00  0.93  74.7
49 1   3.625 1  8.81 14.28 11.54  9.34  6.77  4.94  2.84  1.24  74.7
49 1   3.625 1 11.52 18.72 15.08 12.14  8.79  6.54  3.82  1.65  74.7
49 1   3.625 1 11.72 18.52 14.92 12.01  8.72  6.48  3.84  1.71  74.7
Note: ambient 77 Lane 1 Heading S.E test @ 25 meters
50 1   3.700 1  6.08  9.28  8.05  7.04  5.69  4.49  2.82  1.19  73.6
50 1   3.700 1  8.73 13.78 12.00 10.42  8.47  6.76  4.24  1.66  73.6
50 1   3.700 1 11.60 18.54 16.22 14.04 11.45  9.16  5.72  2.25  73.6
50 1   3.700 1 11.69 18.46 16.14 13.98 11.40  9.14  5.79  2.24  73.6
Note: ambient 78 Lane 1 Heading S.
51 1   3.801 1  6.07  7.85  6.33  5.08  3.74  2.83  1.71  0.84  79.5
51 1   3.801 1  8.82 11.59  9.34  7.48  5.58  4.22  2.55  1.20  79.5
51 1   3.801 1  7.82  2.07  1.71  1.40  1.01  0.65  0.46  0.34  79.5
51 1   3.801 1 11.64 15.13 12.31  9.88  7.42  5.70  3.41  1.59  79.5
Note: ambient 74 Lane 1 Heading S.
52 1   3.901 1  6.04 10.18  8.42  6.57  4.50  3.04  1.44  0.50  80.6
52 1   3.901 1  8.72 14.54 11.99  9.31  6.42  4.44  2.09  0.66  80.6
52 1   3.901 1 11.63 19.07 15.57 12.08  8.42  5.90  2.80  0.82  80.6
52 1   3.901 1 11.67 19.06 15.55 12.08  8.45  5.92  2.83  0.84  80.6
Note: ambient 74 Lane 1 Heading S. slide area
53 1   4.005 1  5.80 12.03  9.75  7.16  4.96  3.39  1.85  0.86  80.6
53 1   4.005 1  8.43 18.10 14.57 10.79  7.53  5.17  2.77  1.21  80.6
53 1   4.005 1  8.00  8.76  6.66  5.79  4.46  2.95  1.31  0.68  80.6
53 1   4.005 1 11.67 23.81 17.67 13.25  9.41  6.52  3.51  1.47  80.6
Note: ambient 74 Lane 1 Heading S. slide area
54 1   4.200 1  6.14 10.45  7.12  4.67  2.76  1.83  1.04  0.55  83.5
54 1   4.200 1  9.10 15.17 10.45  6.87  4.09  2.75  1.53  0.77  83.5
54 1   4.200 1  8.50  6.63  4.11  3.24  1.85  0.84  0.24  0.20  83.5
54 1   4.200 1 11.75 19.22 13.57  9.10  5.48  3.68  2.06  1.01  83.5
Note: ambient 74 Lane 1 Heading S.W
55 1   4.209 1  6.14 14.59 11.50  9.59  7.38  5.73  3.67  1.90  83.5
55 1   4.209 1  8.53 21.33 17.07 14.18 10.90  8.46  5.33  2.62  83.5
55 1   4.209 1  7.52 10.80  7.98  6.48 10.07  7.74  1.75  1.38  83.5
55 1   4.209 1 11.30 28.84 23.37 19.33 14.90 11.62  7.32  3.47  83.5
Note: ambient 74 Lane 1 Heading S.W
56 1   4.225 1  6.23  9.43  7.85  6.78  5.46  4.36  2.96  1.61  83.1
56 1   4.225 1  9.11 13.34 11.33  9.78  7.90  6.36  4.27  2.24  83.1
56 1   4.225 1 12.04 17.71 15.21 13.06 10.61  8.58  5.78  2.99  83.1
56 1   4.225 1 11.95 17.65 15.19 13.06 10.63  8.60  5.83  3.01  83.1
Note: ambient 74 Lane 1 Heading S.W test @ 25 meters
57 1   4.300 1  5.63 10.61  8.71  7.50  6.34  4.51  2.29  0.65  82.8
57 1   4.300 1  8.18 15.16 12.55 10.77  9.07  6.51  3.36  0.90  82.8
57 1   4.300 1 10.89 19.51 16.73 14.24 11.95  8.68  4.58  1.18  82.8
57 1   4.300 1 10.90 18.46 16.92 14.41 12.08  8.81  4.59  1.18  82.8
Note: ambient 74 Lane 1 Heading S.W
58 1   4.400 1  6.01 11.71  9.69  7.89  5.71  4.09  2.26  0.92  80.6
58 1   4.400 1  8.88 17.16 14.35 11.67  8.51  6.14  3.31  1.33  80.6
58 1   4.400 1 11.72 22.98 19.26 15.71 11.50  8.39  4.60  1.75  80.6
58 1   4.400 1 11.50 22.88 19.17 15.65 11.48  8.39  4.63  1.75  80.6
Note: ambient 74 Lane 1 Heading S.E
59 1   4.501 1  6.18 11.99  8.78  6.88  4.85  3.50  2.08  1.02  79.8
59 1   4.501 1  8.99 17.24 13.12 10.33  7.39  5.35  3.10  1.40  79.8
59 1   4.501 1 11.83 22.86 17.59 13.95 10.06  7.37  4.16  1.80  79.8
59 1   4.501 1  1.37 16.68 14.59 12.64 10.45  8.24  4.56  2.09  79.8
Note: ambient 74 Lane 1 Heading S.E
60 1   4.600 1  6.25  7.56  6.19  5.07  3.80  2.79  1.65  0.78  77.3
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60 1   4.600 1' 9.14 10.90  8.91  7.28  5.47  4.06  2.39  1.07  77.3
60 1   4.600 1  8.42  5.57  4.08  3.78  2.77  1.59  0.94  0.66  77.3
60 1   4.600 1 11.85 14.26 11.68  9.52  7.18  5.37  3.22  1.38  77.3
Note: ambient 69 Lane 1 Heading S.E
61 1   4.708 1  6.57 11.61  9.37  7.54  5.52  4.02  2.36  1.30  77.6
61 1   4.708 1  9.16 16.93 13.43 10.74  7.91  5.89  3.45  1.72  77.6
61 1   4.708 1 12.02 22.18 17.55 13.99 10.33  7.71  4.57  2.13  77.6
61 1   4.708 1 12.02 21.88 17.24 13.77 10.23  7.68  4.62  2.11  77.6
Note: ambient 69 Lane 1 Heading S.E new pavement near before
62 1   4.800 1  6.56 13.16  9.26  7.07  4.75  3.28  1.74  0.85  77.6
62 1   4.800 1  9.15 18.76 13.56 10.36  7.02  4.87  2.56  1.19  77.6
62 1   4.800 1 11.97 24.37 17.94 13.77  9.36  6.52  3.44  1.44  77.6
62 1   4.800 1 12.13 23.97 17.86 13.76  9.44  6.62  3.49  1.47  77.6
Note: ambient 69 Lane 1 Heading S.E new pavement near before
63 1   4.900 1  6.63  9.40  7.62  6.30  4.74  3.55  2.11  1.10  77.3
63 1   4.900 1  9.56 13.38 10.70  8.79  6.62  4.97  2.90  1.36  77.3
63 1   4.900 1  0.53  3.51  2.75  2.47  2.04  1.45  0.91  0.56  77.3
63 1   4.900 1 12.30 17.76 14.19 11.70  8.89  6.76  3.98  1.77  77.3
Note: ambient 69 Lane 1 Heading S.E new pavement near before
64 1   5.002 1  6.40  7.49  6.38  5.55  4.49  3.56  2.35  1.27  83.9
64 1   5.002 1  9.12 10.64  9.02  7.84  6.37  5.13  3.39  1.78  83.9
64 1   5.002 1 12.10 13.73 11.65 10.06  8.20  6.70  4.45  2.25  83.9
64 1   5.002 1 12.02 13.70 11.63 10.04  8.19  6.66  4.43  2.28  83.9
Note: ambient 67 Lane 1 Heading S.E new pavement near before
65 1   5.100 1  6.47  6.05  4.77  3.72  2.67  2.01  1.29  0.68  80.6
65 1   5.100 1  8.82  8.81  6.94  5.43  3.94  2.97  1.92  0.98  80.6
65 1   5.100 1  4.40 13.18  9.77  7.20  5.32  4.07  2.61  1.35  80.6
65 1   5.100 1 11.83 11.42  8.88  7.02  5.12  3.90  2.55  1.28  80.6
Note: ambient 67 Lane 1 Heading S.E new pavement near before
66 1   5.200 1  6.38 11.12  7.21  5.43  3.66  2.53  1.38  0.76  82.4
66 1   5.200 1  9.05 15.79 10.50  7.90  5.36  3.69  2.02  1.04  82.4
66 1   5.200 1 11.86 20.73 13.97 10.49  7.13  4.97  2.72  1.37  82.4
66 1   5.200 1 11.93 20.27 13.77 10.40  7.08  4.97  2.70  1.38  82.4
Note: ambient 67 Lane 1 Heading S.E new pavement near before
67 1   5.301 1  5.92 10.39  8.42  6.23  4.24  2.92  1.62  0.84  82.0
67 1   5.301 1  8.76 14.56 11.62  8.57  5.92  4.15  2.29  1.18  82.0
67 1   5.301 1  7.53  2.72  2.46  1.75  1.23  0.87  0.50  0.52  82.0
67 1   5.301 1 11.46 18.48 14.50 10.72  7.50  5.35  3.04  1.58  82.0
Note: ambient 67 Lane 1 Heading S.W Aligator cracking
68 1   5.401 1  6.32 11.82  8.29  6.24  4.28  2.94  1.46  0.65  85.3
68 1   5.401 1  8.81 16.89 11.88  8.93  6.16  4.26  2.07  0.88  85.3
68 1   5.401 1 11.61 22.19 15.70 11.85  8.19  5.71  2.80  1.15  85.3
68 1   5.401 1 11.66 22.17 15.77 11.94  8.28  5.78  2.85  1.20  85.3
Note: ambient 69 Lane 1 Heading S.W Aligator cracking
69 1   5.514 1  6.30 11.85  8.57  6.79  4.83  3.58  2.20  1.19  86.1
69 1   5.514 1  9.01 16.89 12.39  9.87  7.07  5.33  3.23  1.70  86.1
69 1   5.514 1  8.26  2.72  2.08  1.68  1.15  0.69  0.49  0.34  86.1
69 1   5.514 1 11.75 21.88 16.37 13.05  9.41  7.15  4.30  2.26  86.1
Note: ambient 69 Lane 1 Heading S.W Aligator cracking
70 1   5.526 1  6.18 10.44  7.75  6.03  4.18  2.88  1.47  0.53  85.0
70 1   5.526 1  8.82 15.09 11.29  8.76  6.08  4.20  2.09  0.71  85.0
70 1   5.526 1 11.77 19.81 14.75 11.46  7.97  5.67  2.81  0.88  85.0
70 1   5.526 1 11.62 19.58 14.69 11.43  7.99  5.71  2.87  0.90  85.0
Note: ambient 69 Lane 1 Heading S.W Aligator cracking Test @ 25 meters
71 1   5.601 1  5.91  9.80  7.03  5.25  3.53  2.49  1.49  0.74  87.5
71 1   5.601 1  8.98 13.85  9.98  7.44  5.05  3.61  2.14  1.02  87.5
71 1   5.601 1  8.49  2.62  1.97  1.47  0.97  0.59  0.50  0.44  87.5
71 1   5.601 1 11.78 17.61 12.80  9.61  6.55  4.73  2.85  1.42  87.5
Note: ambient 69 Lane 1 Heading W. Aligator cracking
72 1   5.699 1  6.24 14.08 10.43  8.44  6.21  4.49  2.53  1.13  91.9
72 1   5.699 1  8.98 20.08 15.03 12.16  8.98  6.57  3.69  1.46  91.9
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72 1   5.699 1  8.20  3.48  2.62  2.15  1.56  1.09  0.62  0.33  91.9
72 1   5.699 1 11.68 26.60 19.97 16.22 12.07  8.90  5.01  1.92  91.9
Note: ambient 69 Lane 1 Heading S.W. Aligator cracking
73 1   5.801 1  6.15 25.06 20.02 15.86 10.95  7.11  3.24  1.35  90.5
73 1   5.801 1  8.37 34.91 28.25 22.43 15.67 10.47  4.66  1.82  90.5
73 1   5.801 1  7.19  7.64  5.58  5.11  3.90  2.43  1.46  0.85  90.5
73 1   5.801 1 10.92 45.31 36.67 29.19 20.96 14.31  6.38  2.31  90.5
Note: ambient 69 Lane 1 Heading S.W. Aligator cracking
74 1   5.826 1  5.86 22.13 16.47 12.45  7.76  4.43  1.99  1.10  91.9
74 1   5.826 1  8.32 31.01 23.66 18.10 11.27  6.47  2.69  1.42  91.9
74 1   5.826 1  7.30  5.34  4.14  2.89  1.69  0.84  0.39  0.21  91.9
74 1   5.826 1 10.93 40.25 31.27 24.37 15.37  9.07  3.60  1.88  91.9
Note: ambient 69 Lane 1 Heading S.W. Aligator cracking test @ 25 meters
75 1   5.900 1  6.20 11.94  8.81  6.69  4.43  3.00  1.72  1.04  90.5
75 1   5.900 1  8.62 17.20 12.78  9.72  6.50  4.48  2.46  1.50  90.5
75 1   5.900 1 11.46 22.42 16.89 12.87  8.67  6.11  3.38  2.01  90.5
75 1   5.900 1 11.50 22.10 16.82 12.85  8.68  6.07  3.37  1.96  90.5
Note: ambient 69 Lane 1 Heading S.W. major  Aligator cracking test
76 1   6.000 1  6.20  9.24  7.06  5.55  3.90  2.78  1.72  0.92  87.9
76 1   6.000 1  8.79 13.30 10.18  7.97  5.63  4.06  2.39  1.21  87.9
76 1   6.000 1  8.39  2.54  1.92  1.57  1.07  0.60  0.38  0.16  87.9
76 1   6.000 1 11.58 17.48 13.47 10.60  7.52  5.47  3.26  1.68  87.9
Note: ambient 69 Lane 1 Heading S. major  Aligator cracking test
77 1   6.100 1  6.05 10.74  7.94  6.19  4.33  3.18  1.99  1.06  87.9
77 1   6.100 1  8.75 15.81 11.78  9.11  6.41  4.77  2.96  1.53  87.9
77 1   6.100 1 11.66 20.86 15.59 12.12  8.56  6.39  3.96  2.01  87.9
77 1   6.100 1 11.58 20.69 15.61 12.19  8.61  6.45  4.00  1.99  87.9
Note: ambient 69 Lane 1 Heading S. major  Aligator cracking test
78 1   6.201 1  5.86 15.34 11.63  9.26  6.60  4.73  2.77  1.44  87.5
78 1   6.201 1  8.56 22.79 17.43 13.86  9.97  7.22  4.14  1.93  87.5
78 1   6.201 1  7.90  4.02  3.13  2.59  1.91  1.30  0.82  0.44  87.5
78 1   6.201 1 11.29 29.75 23.05 18.34 13.39  9.82  5.57  2.29  87.5
Note: ambient 69 Lane 1 Heading S. major  Aligator cracking test
79 1   6.226 1  6.05 13.17  9.98  7.85  5.55  3.97  2.42  1.40  87.5
79 1   6.226 1  8.67 19.08 14.60 11.51  8.16  5.92  3.55  1.85  87.5
79 1   6.226 1  8.01  3.21  2.34  2.02  1.41  0.96  0.62  0.50  87.5
79 1   6.226 1 11.49 24.96 19.28 15.26 10.95  8.02  4.76  2.38  87.5
Note: ambient 70 Lane 1 Heading S. major  Aligator cracking test @ 25 meters.
80 1   6.278 1  5.83 20.19 15.49 12.41  9.06  6.65  3.82  1.76  89.4
80 1   6.278 1  8.43 28.61 21.86 17.70 12.95  9.58  5.42  2.28  89.4
80 1   6.278 1  7.40 17.61 12.66 11.28  8.07  4.51  1.47  0.85  89.4
80 1   6.278 1 11.03 37.25 29.57 23.29 17.17 12.80  7.36  2.67  89.4
Note: ambient 70 Lane 1 Heading S. major  Aligator cracking test @ 25 meters.
81 1   6.304 1  6.03 12.28  9.33  7.32  5.26  3.92  2.58  1.47  87.5
81 1   6.304 1  8.62 17.73 13.57 10.61  7.69  5.76  3.76  2.08  87.5
81 1   6.304 1  8.17  2.54  2.27  1.85  1.36  0.96  0.63  0.41  87.5
81 1   6.304 1 11.63 22.91 17.72 13.96 10.23  7.78  5.09  2.78  87.5
Note: ambient 71 Lane 1 Heading S. major  Aligator cracking
82 1   6.355 1  5.88 12.81 10.28  8.44  6.15  4.51  2.79  1.59  87.9
82 1   6.355 1  8.48 18.60 14.98 12.25  8.92  6.68  4.01  2.03  87.9
82 1   6.355 1  7.55  2.59  2.20  1.91  1.53  1.01  0.61  0.60  87.9
82 1   6.355 1 11.17 24.78 20.03 16.35 11.99  9.10  5.53  2.82  87.9
Note: ambient 71 Lane 1 Heading S. major  Aligator cracking test @ 50 meters
83 1   6.400 1  6.12 10.55  7.91  6.29  4.63  3.50  2.28  1.36  86.8
83 1   6.400 1  8.65 15.04 11.41  9.02  6.67  5.10  3.33  1.98  86.8
83 1   6.400 1  0.21  5.53  4.18  3.48  2.74  1.85  5.01  2.87  86.8
83 1   6.400 1 11.63 19.68 14.95 11.83  8.79  6.77  4.45  2.59  86.8
Note: ambient 72 Lane 1 Heading S.W major  Aligator cracking test @ 50 meters
84 1   6.500 1  6.07 15.80 12.66 10.33  6.67  4.94  3.09  1.66  85.7
84 1   6.500 1  8.45 23.12 18.62 15.15  9.87  7.36  4.59  2.41  85.7
84 1   6.500 1  7.63  3.60  2.89  2.46  1.65  1.15  0.78  0.50  85.7
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84 1   6.500 1 11.24 30.64 24.75 20.09 13.22  9.94  6.12  3.09  85.7
Note: ambient 72 Lane 1 Heading S.W major  Aligator cracking test @ 50 meters
85 1   6.500 1  5.58 18.86 14.77 11.91  8.73  6.42  3.75  2.02  84.6
85 1   6.500 1  8.24 28.48 22.41 18.03 13.25  9.74  5.59  2.83  84.6
85 1   6.500 1  7.07  3.77  2.91  2.40  1.93  1.47  1.11  1.05  84.6
85 1   6.500 1 10.85 37.90 30.25 24.26 17.90 13.27  7.32  3.40  84.6
Note: ambient 72 Lane 1 Heading S.W major  Aligator cracking test @ 50 meters
86 1   6.550 1  5.72 14.10 10.37  7.99  5.50  3.78  2.15  1.20  85.0
86 1   6.550 1  8.42 21.00 15.56 12.03  8.40  5.89  3.36  1.80  85.0
86 1   6.550 1  7.66 12.48  9.37  8.39  6.34  4.55  2.22  0.69  85.0
86 1   6.550 1 11.07 27.33 20.48 15.85 11.16  7.92  4.44  2.11  85.0
Note: ambient 72 Lane 1 Heading S.W major  Aligator cracking test @ 50 Meters
87 1   6.600 1  6.05  9.77  7.01  5.03  3.30  2.24  1.26  0.79  85.0
87 1   6.600 1  8.59 14.28 10.21  7.32  4.83  3.28  1.81  1.08  85.0
87 1   6.600 1  8.10  2.56  2.02  1.32  0.84  0.47  0.28  0.47  85.0
87 1   6.600 1 11.67 18.43 13.40  9.67  6.40  4.45  2.51  1.47  85.0
Note: ambient 72 Lane 1 Heading S.W major  Aligator cracking test @ 50 Meters
88 1   6.701 1  5.94 14.39 11.09  8.87  6.56  5.00  3.41  1.93  82.8
88 1   6.701 1  8.38 20.52 15.93 12.66  9.32  7.17  4.77  2.73  82.8
88 1   6.701 1  7.67  3.19  2.29  1.94  1.49  1.09  0.75  0.58  82.8
88 1   6.701 1 11.16 26.76 21.21 16.82 12.46  9.63  6.41  3.60  82.8
Note: ambient 74 Lane 1 Heading S.W major  Aligator cracking
89 1   6.750 1  6.03 11.02  8.01  6.21  4.38  3.16  1.96  1.05  82.8
89 1   6.750 1  8.56 16.20 11.87  9.18  6.51  4.81  2.95  1.55  82.8
89 1   6.750 1 11.45 21.21 15.75 12.21  8.72  6.51  4.00  2.08  82.8
89 1   6.750 1  0.00  6.93  5.06  4.08  3.09  1.97  4.70  2.46  82.8
Note: ambient 74 Lane 1 Heading S.W major  Aligator cracking test @ 50 Meters
90 1   6.800 1  6.09  9.01  6.83  5.33  3.73  2.64  1.57  0.95  84.6
90 1   6.800 1  8.89 12.80  9.76  7.60  5.35  3.85  2.26  1.29  84.6
90 1   6.800 1  0.62  5.21  3.98  3.18  2.30  1.35  3.73  1.91  84.6
90 1   6.800 1 11.58 16.64 12.75  9.99  7.06  5.15  3.06  1.72  84.6
Note: ambient 74 Lane 1 Heading S.W major  Aligator cracking test @ 50 Meters
91 1   6.901 1  6.25 11.07  7.59  5.78  3.90  2.82  1.74  0.98  85.0
91 1   6.901 1  8.86 15.84 11.09  8.46  5.76  4.20  2.60  1.44  85.0
91 1   6.901 1 11.64 19.99 14.62 11.13  7.66  5.63  3.52  1.97  85.0
91 1   6.901 1 11.96 20.24 14.89 11.37  7.87  5.77  3.64  2.00  85.0
Note: ambient 72 Lane 1 Heading S.W major  Aligator cracking
92 1   7.000 1  6.09  9.35  7.25  5.81  4.26  3.26  2.15  1.24  85.0
92 1   7.000 1  8.70 13.10 10.22  8.12  5.97  4.62  3.02  1.67  85.0
92 1   7.000 1  8.08  3.94  2.59  2.06  1.01  0.53  0.44  0.28  85.0
92 1   7.000 1 11.63 16.70 13.08 10.40  7.75  6.02  3.99  2.14  85.0
Note: ambient 72 Lane 1 Heading S.W major  Aligator cracking
93 1   7.102 1  5.77 14.11 11.14  8.94  6.61  4.81  2.80  1.40  85.7
93 1   7.102 1  8.27 19.99 15.81 12.62  9.36  6.86  3.88  1.82  85.7
93 1   7.102 1 11.03 26.54 20.99 16.79 12.43  9.34  5.31  2.55  85.7
93 1   7.102 1 11.11 26.29 21.05 16.89 12.52  9.30  5.44  2.55  85.7
Note: ambient 72 Lane 1 Heading S.W major  Aligator cracking
94 1   7.200 1  6.07 12.09  9.21  6.89  4.47  2.92  1.70  1.04  91.9
94 1   7.200 1  8.44 17.38 13.43 10.10  6.63  4.43  2.56  1.51  91.9
94 1   7.200 1  7.45  6.68  4.09  3.18  1.59  0.60  0.56  0.71  91.9
94 1   7.200 1 11.16 21.60 17.11 12.93  8.64  5.99  3.46  1.96  91.9
Note: ambient 72 Lane 1 Heading S.W major  Aligator cracking
95 1   7.300 1  5.76 12.52 10.29  8.17  5.85  4.18  2.30  1.13  90.8
95 1   7.300 1  8.59 17.74 14.73 11.65  8.40  6.11  3.33  1.50  90.8
95 1   7.300 1 11.25 23.27 19.23 15.20 11.03  8.26  4.45  1.87  90.8
95 1   7.300 1  7.53  3.09  2.61  2.21  1.63  1.12  0.66  0.29  90.8
Note: ambient 71 Lane 1 Heading S. major  Aligator cracking
96 1   7.401 1  5.63 12.23 10.71  8.75  6.42  4.76  2.70  1.23  87.9
96 1   7.401 1  8.15 17.77 15.58 12.69  9.36  6.98  3.97  1.66  87.9
96 1   7.401 1  6.97  2.44  2.29  1.90  1.67  1.25  0.76  0.76  87.9
96 1   7.401 1 11.29 23.60 19.45 15.78 11.69  8.82  5.02  2.07  87.9
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Note: ambient 71 Lane 1 Heading W. major Aligator cracking

97	1	7.499	1	5.80	12.00	10.21	8.23	6.11	4.44	2.52	1.15	91.6
97	1	7.499	1	8.57	18.34	14.54	11.77	8.74	6.42	3.58	1.59	91.6
97	1	7.499	1	8.00	2.83	3.25	1.95	1.55	1.03	0.63	0.55	91.6
97	1	7.499	1	11.40	24.21	19.66	15.67	11.71	8.66	4.78	1.99	91.6

Note: ambient 71 Lane 1 Heading W. Entrance to tunnel

98	1	7.568	1	6.09	5.07	4.79	4.58	4.30	3.93	3.30	2.09	87.5
98	1	7.568	1	8.79	7.43	7.00	6.64	6.24	5.79	4.78	3.02	87.5
98	1	7.568	1	11.68	9.83	9.27	8.77	8.27	7.67	6.28	3.98	87.5
98	1	7.568	1	11.57	9.80	9.27	8.76	8.24	7.64	6.25	3.99	87.5

Note: ambient 71 Lane 1 Heading W. Entrance to tunnel Mile marker 5

99	1	8.029	1	5.70	11.96	10.67	8.62	6.20	4.42	2.42	1.18	85.3
99	1	8.029	1	8.95	19.00	16.65	13.41	9.60	6.88	3.66	1.66	85.3
99	1	8.029	1	7.47	3.72	2.84	2.45	1.69	1.06	3.47	0.31	85.3
99	1	8.029	1	11.31	25.42	21.78	17.50	12.64	9.24	5.00	2.12	85.3

Note: ambient 71 Lane 1 Heading W. Exit of tunnel B-6

100	1	8.107	1	5.94	15.47	12.41	10.00	7.16	5.07	2.65	1.08	87.5
100	1	8.107	1	8.37	23.06	18.67	15.04	10.84	7.71	3.99	1.52	87.5
100	1	8.107	1	7.73	1.60	1.18	1.45	6.92	5.68	3.86	1.57	87.5
100	1	8.107	1	11.11	26.23	25.13	20.26	14.70	10.63	5.47	1.93	87.5

Note: ambient 73 Lane 1 Heading W.

101	1	8.201	1	5.92	10.23	7.89	6.44	4.80	3.69	2.44	1.37	87.5
101	1	8.201	1	8.57	14.98	11.62	9.47	7.09	5.46	3.61	1.99	87.5
101	1	8.201	1	7.91	2.31	1.86	1.58	1.19	0.78	0.55	0.29	87.5
101	1	8.201	1	11.24	19.45	15.32	12.48	9.43	7.35	4.88	2.56	87.5

Note: ambient 73 Lane 1 Heading N.W.

102	1	8.250	1	6.09	9.30	7.46	5.87	4.21	3.13	1.88	1.06	89.7
102	1	8.250	1	8.39	13.32	10.68	8.39	6.03	4.57	2.78	1.51	89.7
102	1	8.250	1	7.89	2.33	1.80	1.48	1.07	0.59	0.36	0.35	89.7
102	1	8.250	1	11.27	17.51	14.08	11.07	8.08	6.21	3.73	2.00	89.7

Note: ambient 73 Lane 1 Heading N.W. Test @ 50 Meters

103	1	8.300	1	5.81	16.84	13.77	11.45	8.70	6.65	4.03	1.92	87.9
103	1	8.300	1	8.31	24.75	20.27	16.77	12.77	9.86	5.90	2.69	87.9
103	1	8.300	1	7.45	6.83	5.38	5.06	4.17	3.59	3.18	2.92	87.9
103	1	8.300	1	11.01	32.75	26.74	21.99	16.84	13.17	7.81	3.36	87.9

Note: ambient 75 Lane 1 Heading N.W. Test @ 50 Meters

104	1	8.351	1	5.53	11.22	8.32	6.10	4.03	2.85	1.99	1.28	88.6
104	1	8.351	1	8.56	16.23	12.10	8.88	5.86	4.20	2.85	1.81	88.6
104	1	8.351	1	0.00	5.68	4.13	3.14	1.78	1.00	0.64	1.82	88.6
104	1	8.351	1	11.33	20.14	15.68	11.49	7.75	5.61	3.71	2.31	88.6

Note: ambient 75 Lane 1 Heading N.W. Test @ 50 Meters

105	1	8.400	1	5.93	14.01	11.06	8.47	5.46	3.55	1.59	0.92	88.3
105	1	8.400	1	8.54	19.32	14.07	10.65	6.78	4.39	1.94	1.10	88.3
105	1	8.400	1	7.97	15.35	10.42	8.43	5.31	2.65	0.38	0.27	88.3
105	1	8.400	1	11.23	20.66	17.89	13.62	8.71	5.75	2.57	1.36	88.3

Note: ambient 75 Lane 1 Heading N.W. Test @ 50 Meters

106	1	8.500	1	5.93	8.99	6.91	5.41	3.89	2.85	1.87	1.24	88.6
106	1	8.500	1	8.48	12.87	9.89	7.69	5.55	4.11	2.49	1.64	88.6
106	1	8.500	1	7.44	6.10	4.16	3.54	2.43	1.23	0.88	0.62	88.6
106	1	8.500	1	11.16	16.24	12.61	9.80	7.16	5.30	3.44	2.07	88.6

Note: ambient 75 Lane 1 Heading N.

107	1	8.600	1	5.66	11.84	9.74	7.85	5.73	4.22	2.51	1.34	87.9
107	1	8.600	1	8.28	17.97	14.68	11.76	8.64	6.32	3.67	1.82	87.9
107	1	8.600	1	11.16	24.55	20.11	16.08	11.86	8.77	5.05	2.36	87.9
107	1	8.600	1	11.23	24.67	20.16	16.15	11.90	8.87	5.11	2.37	87.9

Note: ambient 75 Lane 1 Heading N.

108	1	8.701	1	5.64	14.34	12.12	9.77	7.28	5.36	3.34	1.83	86.1
108	1	8.701	1	8.39	21.48	18.03	14.51	10.87	8.09	5.01	2.48	86.1
108	1	8.701	1	6.91	6.61	5.21	5.33	4.72	4.23	3.94	2.96	86.1
108	1	8.701	1	10.78	28.56	23.71	19.17	14.52	10.99	6.82	3.20	86.1

Note: ambient 75 Lane 1 Heading N.

109 1	8.802 1	5.58	10.20	8.66	7.16	5.40	4.10	2.44	1.29	86.8
109 1	8.802 1	8.00	14.82	12.48	10.28	7.78	5.90	3.51	1.78	86.8
109 1	8.802 1	10.92	20.16	16.71	13.71	10.40	7.96	4.65	2.25	86.8
109 1	8.802 1	0.37	6.39	5.41	4.76	3.75	5.88	4.73	2.52	86.8
Note: ambient 77 Lane 1 Heading N.W aligator cracking										
110 1	8.900 1	5.75	10.51	7.98	6.43	4.82	3.71	2.47	1.45	87.5
110 1	8.900 1	8.49	15.61	11.94	9.61	7.24	5.61	3.69	2.05	87.5
110 1	8.900 1	7.93	2.77	1.99	1.56	1.18	0.78	0.51	0.34	87.5
110 1	8.900 1	11.29	20.31	15.94	12.84	9.77	7.60	5.09	2.71	87.5
Note: ambient 77 Lane 1 Heading N.W aligator cracking										
111 1	9.000 1	5.52	13.77	11.80	9.68	7.37	5.54	3.23	1.53	88.3
111 1	9.000 1	8.01	20.56	17.53	14.38	11.04	8.37	4.91	2.17	88.3
111 1	9.000 1	10.89	27.88	22.61	18.25	14.10	10.81	6.36	2.69	88.3
111 1	9.000 1	10.97	27.53	22.42	18.37	14.19	10.90	6.36	2.70	88.3
Note: ambient 78 Lane 1 Heading N.W aligator cracking										
112 1	9.125 1	5.77	9.13	7.26	5.73	4.06	2.88	1.70	0.96	88.6
112 1	9.125 1	8.34	13.36	10.68	8.43	6.08	4.34	2.49	1.34	88.6
112 1	9.125 1	11.11	17.68	13.87	10.94	7.90	5.72	3.31	1.78	88.6
112 1	9.125 1	0.18	5.93	4.93	4.07	3.00	1.89	3.24	1.97	88.6
Note: ambient 78 Lane 1 Heading N.W aligator cracking										
113 1	9.199 1	5.75	7.80	6.24	4.87	3.41	2.43	1.33	0.64	87.5
113 1	9.199 1	8.37	11.52	9.19	7.20	5.12	3.64	1.97	0.91	87.5
113 1	9.199 1	7.64	7.15	5.68	4.98	3.81	2.60	0.85	0.16	87.5
113 1	9.199 1	11.29	15.13	11.95	9.37	6.69	4.81	2.67	1.20	87.5
Note: ambient 80 Lane 1 Heading N.W aligator cracking										
114 1	9.301 1	5.69	8.72	7.43	6.17	4.80	3.72	2.39	1.28	87.5
114 1	9.301 1	8.16	12.96	11.00	9.08	7.11	5.56	3.50	1.81	87.5
114 1	9.301 1	7.62	7.26	5.88	5.74	4.93	3.63	2.25	0.34	87.5
114 1	9.301 1	11.14	17.11	14.48	11.91	9.36	7.46	4.65	2.33	87.5
Note: ambient 80 Lane 1 Heading N.W aligator cracking										
115 1	9.346 1	6.03	16.48	11.58	8.56	5.55	3.75	2.15	1.21	84.6
115 1	9.346 1	8.49	24.85	16.86	12.28	7.89	5.34	3.06	1.65	84.6
115 1	9.346 1	7.67	3.85	2.73	2.04	1.38	0.80	0.44	0.31	84.6
115 1	9.346 1	11.19	29.75	21.99	16.06	10.40	7.14	4.05	2.06	84.6
Note: ambient 80 Lane 1 Heading N.W B/-7 miles post										
116 1	9.401 1	5.72	10.86	8.60	7.12	5.51	4.25	2.83	1.65	84.2
116 1	9.401 1	8.64	16.61	13.44	11.09	8.60	6.71	4.34	2.40	84.2
116 1	9.401 1	7.67	2.39	1.87	1.56	1.22	0.71	0.51	0.36	84.2
116 1	9.401 1	11.00	21.31	17.35	14.25	11.10	8.80	5.70	3.03	84.2
Note: ambient 81 Lane 1 Heading N.										
117 1	9.500 1	5.83	7.52	5.79	4.26	2.91	2.05	1.22	0.73	86.4
117 1	9.500 1	8.42	11.06	7.85	5.83	3.97	2.86	1.72	0.96	86.4
117 1	9.500 1	11.36	14.48	10.41	7.72	5.35	3.90	2.41	1.26	86.4
117 1	9.500 1	0.00	4.00	2.96	2.24	1.47	0.59	0.54	0.35	86.4
Note: ambient 81 Lane 1 Heading N.										
118 1	9.601 1	5.25	13.24	11.27	9.26	6.84	5.04	2.81	1.26	87.9
118 1	9.601 1	8.07	20.27	15.87	12.94	9.58	7.17	4.03	1.60	87.9
118 1	9.601 1	10.84	26.93	21.37	17.47	13.07	9.87	5.54	2.03	87.9
118 1	9.601 1	0.00	8.52	6.89	5.90	4.61	3.45	2.21	3.34	87.9
Note: ambient 82 Lane 1 Heading N.										
119 1	9.700 1	5.96	8.37	6.07	4.79	3.38	2.43	1.43	0.84	89.7
119 1	9.700 1	8.64	12.16	8.89	7.00	4.98	3.58	2.05	1.11	89.7
119 1	9.700 1	8.13	1.01	1.24	7.09	5.01	3.60	2.05	0.98	89.7
119 1	9.700 1	11.50	15.82	11.82	9.32	6.71	4.87	2.77	1.48	89.7
Note: ambient 82 Lane 1 Heading N.										
120 1	9.826 1	5.85	7.15	4.92	3.75	2.60	1.93	1.24	0.82	95.9
120 1	9.826 1	8.77	10.78	7.48	5.69	3.99	2.97	2.00	1.26	95.9
120 1	9.826 1	7.96	10.55	7.41	5.73	4.02	3.01	2.00	1.22	95.9
120 1	9.826 1	11.66	13.82	9.85	7.49	5.27	3.95	2.68	1.57	95.9
Note: ambient 84 Lane 1 Heading N.W										
121 1	9.900 1	5.68	13.53	9.65	7.19	4.61	3.01	1.68	0.88	93.4

121 1	9.900 1	8.42	19.75	14.31	10.71	6.96	4.63	2.45	1.25	93.4
121 1	9.900 1	7.86	14.39	9.77	7.85	5.05	2.55	0.60	0.33	93.4
121 1	9.900 1	11.13	25.71	19.08	14.39	9.51	6.39	3.35	1.65	93.4
Note: ambient 85 Lane 1 Heading W.										
122 1	10.001 1	5.65	9.84	7.37	5.79	4.14	2.99	1.75	0.90	93.0
122 1	10.001 1	8.57	14.43	10.90	8.58	6.17	4.52	2.61	1.29	93.0
122 1	10.001 1	8.26	2.53	1.93	1.57	1.15	0.75	0.49	0.35	93.0
122 1	10.001 1	11.50	18.70	14.27	11.27	8.23	6.06	3.58	1.75	93.0
Note: ambient 85 Lane 1 Heading W.										
123 1	10.101 1	5.54	19.86	15.72	12.26	8.33	5.71	2.99	1.42	96.7
123 1	10.101 1	8.13	29.89	23.89	18.59	12.75	8.82	4.54	2.04	96.7
123 1	10.101 1	7.11	4.66	3.91	3.15	2.34	1.52	0.90	0.72	96.7
123 1	10.101 1	10.80	37.08	31.86	24.96	17.36	12.19	6.18	2.60	96.7
Note: ambient 86 Lane 1 Heading S.W. thin Overlay										
124 1	10.150 1	5.99	10.18	6.62	4.65	2.93	2.01	1.12	0.55	94.8
124 1	10.150 1	8.54	14.78	9.89	6.99	4.43	2.96	1.63	0.78	94.8
124 1	10.150 1	8.35	3.34	2.12	1.48	0.80	0.44	0.27	0.23	94.8
124 1	10.150 1	11.58	19.45	13.69	9.74	6.22	4.24	2.28	1.04	94.8
Note: ambient 86 Lane 1 Heading S. thin Overlay Test @ 50 Meters										
125 1	10.200 1	5.55	14.56	11.62	9.49	6.96	5.09	2.87	1.48	100.7
125 1	10.200 1	8.29	22.14	17.65	14.34	10.52	7.74	4.26	2.09	100.7
125 1	10.200 1	7.47	3.04	2.49	2.20	1.68	1.22	0.70	0.39	100.7
125 1	10.200 1	11.13	29.08	23.22	18.87	13.99	10.46	5.82	2.79	100.7
Note: ambient 86 Lane 1 Heading S. thin Overlay										
126 1	10.299 1	5.96	8.14	5.75	4.43	3.25	2.50	1.59	0.87	97.4
126 1	10.299 1	8.73	12.27	8.55	6.63	4.90	3.76	2.45	1.26	97.4
126 1	10.299 1	8.40	2.11	1.37	1.16	0.68	0.58	0.48	0.22	97.4
126 1	10.299 1	11.55	16.05	11.28	8.77	6.56	5.07	3.32	1.70	97.4
Note: ambient 86 Lane 1 Heading S. thin Overlay										
127 1	10.401 1	5.98	7.52	5.63	4.34	3.15	2.42	1.65	0.99	97.0
127 1	10.401 1	8.71	11.24	8.36	6.43	4.73	3.65	2.50	1.48	97.0
127 1	10.401 1	11.55	15.13	10.97	8.44	6.26	4.92	3.34	1.97	97.0
127 1	10.401 1	0.00	3.89	3.03	2.48	1.83	1.35	1.20	0.85	97.0
Note: ambient 86 Lane 1 Heading S. thin Overlay										
128 1	10.501 1	6.04	6.92	4.88	3.91	2.89	2.19	1.36	0.63	93.8
128 1	10.501 1	8.84	10.13	7.03	5.64	4.20	3.22	1.99	0.91	93.8
128 1	10.501 1	11.72	13.14	9.20	7.34	5.48	4.22	2.66	1.19	93.8
128 1	10.501 1	11.67	12.94	9.17	7.33	5.49	4.20	2.66	1.19	93.8
Note: ambient 88 Lane 1 Heading S. thin Overlay										
129 1	10.600 1	5.80	8.97	7.48	6.14	4.67	3.52	2.08	0.81	97.4
129 1	10.600 1	8.61	13.24	10.99	8.98	6.85	5.19	3.05	1.15	97.4
129 1	10.600 1	0.00	5.44	4.65	4.12	3.40	2.53	1.80	1.58	97.4
129 1	10.600 1	11.35	16.69	13.66	11.13	8.56	6.57	3.90	1.50	97.4
Note: ambient 82Lane 1 Heading S. thin Overlay										
130 1	10.700 1	6.03	7.23	5.50	4.42	3.40	2.73	1.92	1.14	92.3
130 1	10.700 1	8.59	10.99	8.19	6.53	5.04	4.02	2.77	1.54	92.3
130 1	10.700 1	8.20	5.22	3.86	3.31	2.56	1.95	1.13	1.01	92.3
130 1	10.700 1	11.69	14.58	10.76	8.64	6.77	5.47	3.78	2.08	92.3
Note: ambient 82Lane 1 Heading S. Wthin Overlay										
131 1	10.801 1	6.15	9.24	7.35	6.41	5.28	4.32	2.93	1.47	91.9
131 1	10.801 1	12.00	19.39	15.61	13.43	11.09	9.13	6.10	2.98	91.9
131 1	10.801 1	11.56	18.32	14.87	12.83	10.62	8.80	5.88	2.85	91.9
131 1	10.801 1	11.68	18.28	14.85	12.81	10.62	8.81	5.89	2.87	91.9
Note: ambient 79 Lane 1 Heading S. Wthin Overlay										
132 1	10.879 1	5.90	7.25	4.79	3.62	2.45	1.71	0.97	0.54	80.6
132 1	10.879 1	8.90	10.70	7.47	5.68	3.86	2.72	1.56	0.80	80.6
132 1	10.879 1	8.39	1.83	1.59	1.37	3.89	2.75	1.67	1.20	80.6
132 1	10.879 1	11.63	13.75	9.95	7.58	5.16	3.67	2.14	1.08	80.6
Note: ambient 79 Lane 1 Heading S. Wthin Overlay B-8 Mile Marker										
133 1	11.000 1	5.88	8.40	7.23	5.96	4.49	3.36	2.05	1.10	85.7
133 1	11.000 1	8.49	12.63	10.70	8.85	6.80	5.19	3.27	1.84	85.7

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133 1  11.000 1  7.86  5.72  4.79  4.64  4.08  3.46  2.90  1.83  85.7
133 1  11.000 1 11.31 16.70 14.01 11.53  8.92  6.93  4.45  2.45  85.7
Note: ambient 79 Lane 1 Heading  E. thin Overlay
134 1  11.000 1  5.53  7.33  5.55  4.60  3.63  2.88  1.90  0.96  84.6
134 1  11.000 1  8.70 11.43  8.62  7.13  5.66  4.51  2.97  1.43  84.6
134 1  11.000 1  8.23  1.30  1.22  1.16  0.96  0.70  0.60  0.32  84.6
134 1  11.000 1 11.45 14.91 11.31  9.32  7.42  5.94  3.88  1.89  84.6
Note: ambient 79 Lane 1 Heading S.E. thin Overlay
135 1  11.101 1  5.69  9.29  7.73  6.42  5.01  3.97  2.60  1.09  90.1
135 1  11.101 1  8.22 14.00 11.31  9.32  7.33  5.84  3.79  1.52  90.1
135 1  11.101 1  7.77  2.14  1.89  2.09  2.21  2.52  1.91  1.29  90.1
135 1  11.101 1 11.18 18.88 14.78 12.13  9.60  7.70  5.01  1.97  90.1
Note: ambient 79 Lane 1 Heading  S. thin Overlay
136 1  11.201 1  5.77  5.70  3.26  2.45  1.71  0.00  0.00  0.00  90.8
136 1  11.201 1  8.38  8.56  5.02  3.75  2.63  1.98  1.28  0.66  90.8
136 1  11.201 1 11.18 11.41  6.88  5.12  3.62  2.73  1.76  0.93  90.8
136 1  11.201 1 11.28 11.44  6.98  5.21  3.66  2.75  1.82  0.91  90.8
Note: ambient 81 Lane 1 Heading  S.W thin Overlay
137 1  11.301 1  5.92  8.48  5.94  4.66  3.31  2.37  1.33  0.64  89.4
137 1  11.301 1  8.77 12.75  9.43  7.44  5.28  3.80  2.11  0.93  89.4
137 1  11.301 1  8.48  2.61  2.03  1.68  1.19  0.80  1.05  1.09  89.4
137 1  11.301 1 11.63 16.93 12.60  9.94  7.12  5.15  2.92  1.26  89.4
Note: ambient 80 Lane 1 Heading  S.E thin Overlay
138 1  11.401 1  5.85 11.41  8.20  6.14  4.00  2.65  1.29  0.58  88.6
138 1  11.401 1  8.43 17.35 12.38  9.24  6.01  3.97  1.90  0.76  88.6
138 1  11.401 1  8.11 17.01 12.28  9.20  6.03  3.99  1.91  0.80  88.6
138 1  11.401 1 11.29 23.02 16.22 12.09  7.93  5.30  2.51  1.00  88.6
Note: ambient 79 Lane 1 Heading  S.W thin Overlay
139 1  11.500 1  6.02  9.84  6.95  5.47  4.15  3.25  2.19  1.15  91.2
139 1  11.500 1  8.83 14.90 10.21  8.06  6.17  4.88  3.20  1.61  91.2
139 1  11.500 1  0.00  5.22  3.72  3.09  2.40  1.71  1.41  0.78  91.2
139 1  11.500 1 11.61 19.74 13.67 10.87  8.37  6.65  4.38  2.17  91.2
Note: ambient 77 Lane 1 Heading  S.W thin Overlay
140 1  11.600 1  5.88 11.33  7.59  5.66  3.95  2.83  1.65  0.78  90.1
140 1  11.600 1  8.57 17.57 11.43  8.57  6.04  4.36  2.51  1.09  90.1
140 1  11.600 1  2.13 23.49 12.32 10.14  8.00  6.09  3.50  1.57  90.1
140 1  11.600 1 11.45 23.31 15.20 11.54  8.27  6.03  3.45  1.51  90.1
Note: ambient 76 Lane 1 Heading  S.W thin Overlay
141 1  11.700 1  5.66  8.57  7.05  5.37  3.74  2.71  1.65  0.90  86.1
141 1  11.700 1  8.65 13.38 10.17  7.76  5.41  3.95  2.41  1.21  86.1
141 1  11.700 1  8.11  1.30  1.11  0.85  0.76  1.30  0.71  0.66  86.1
141 1  11.700 1 11.53 17.85 13.39 10.18  7.21  5.34  3.28  1.59  86.1
Note: ambient 76 Lane 1 Heading  S.E thin Overlay
142 1  11.800 1  6.01  9.10  6.19  4.91  3.50  2.59  1.61  0.91  82.4
142 1  11.800 1  8.79 13.39  9.47  7.47  5.31  3.94  2.41  1.31  82.4
142 1  11.800 1 11.69 18.20 12.98 10.21  7.25  5.34  3.12  1.65  82.4
142 1  11.800 1 11.41 17.84 12.85 10.12  7.19  5.31  3.14  1.65  82.4
Note: ambient 76 Lane 1 Heading  S.E thin Overlay
143 1  11.903 1  5.49 18.54 14.74 11.75  8.54  6.20  3.50  1.64  80.2
143 1  11.903 1  7.91 27.78 22.30 17.74 12.97  9.46  5.34  2.49  80.2
143 1  11.903 1 10.64 38.08 30.25 23.88 17.45 12.78  7.06  2.95  80.2
143 1  11.903 1 10.57 37.57 30.14 23.85 17.48 12.83  7.12  3.01  80.2
Note: ambient 76 Lane 1 Heading  S.E thin Overlay
144 1  11.956 1  5.79 10.13  7.90  6.46  4.81  3.57  2.17  1.18  88.6
144 1  11.956 1  8.48 14.73 11.55  9.36  6.92  5.14  3.03  1.46  88.6
144 1  11.956 1  8.21 14.48 11.48  9.30  6.91  5.12  2.98  1.45  88.6
144 1  11.956 1 11.42 19.30 15.24 12.33  9.16  6.90  4.08  1.95  88.6
Note: ambient 76 Lane 1 Heading  S.E thin Overlay test @ 50 meters
145 1  12.000 1  5.75 16.59 13.27 10.81  7.95  5.81  3.29  1.47  86.1
145 1  12.000 1  8.42 25.29 20.40 16.54 12.14  8.92  4.91  1.98  86.1
145 1  12.000 1 11.02 34.27 27.77 22.47 16.49 12.18  6.57  2.35  86.1
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145 1  12.000 1 11.16 34.33 28.13 22.76 16.76 12.38  6.74  2.44  86.1
Note: ambient 78 Lane 1 Heading  S.E thin Overlay
146 1  12.101 1  5.48 16.92 13.90 11.52  8.61  6.42  3.82  1.86  89.4
146 1  12.101 1  8.26 25.79 20.92 17.15 12.83  9.64  5.67  2.77  89.4
146 1  12.101 1  7.03  6.90  4.64  4.15  2.72  1.31  1.32  1.14  89.4
146 1  12.101 1 10.87 35.55 28.28 22.99 17.16 13.05  7.97  3.64  89.4
Note: ambient 78 Lane 1 Heading  S.E thin Overlay
147 1  12.150 1  5.65 13.35  9.68  7.91  5.80  4.37  2.68  1.43  89.7
147 1  12.150 1  8.45 19.79 15.67 12.78  9.40  7.09  4.23  2.10  89.7
147 1  12.150 1  7.88  9.95  7.24  5.92  4.01  2.73  2.31  2.36  89.7
147 1  12.150 1 11.12 26.13 21.26 17.36 12.87  9.71  5.85  2.81  89.7
Note: ambient 78 Lane 1 Heading  S.E thin Overlay test @ 50 meters
148 1  12.200 1  5.91  5.92  4.22  3.15  2.25  1.69  1.07  0.53  89.4
148 1  12.200 1  8.46  9.02  6.51  4.82  3.44  2.56  1.62  0.77  89.4
148 1  12.200 1  8.10  1.62  1.16  0.84  0.56  0.67  0.45  0.40  89.4
148 1  12.200 1 11.33 11.80  8.63  6.45  4.62  3.51  2.23  1.07  89.4
Note: ambient 78 Lane 1 Heading  S.E thin Overlay test @ 50 meters
149 1  12.301 1  5.57 10.32  7.36  5.11  3.15  1.99  0.96  0.59  90.1
149 1  12.301 1  8.12 15.51 10.65  7.46  4.62  2.93  1.41  0.72  90.1
149 1  12.301 1  7.30  2.46  1.88  1.37  0.83  0.46  0.40  0.34  90.1
149 1  12.301 1 11.17 21.09 13.70  9.62  6.03  3.89  1.99  0.94  90.1
Note: ambient 79 Lane 1 Heading  S.W thin Overlay test @ 50 meters
150 1  12.399 1  5.49 21.80 18.01 13.95  9.66  6.73  3.63  1.76  91.9
150 1  12.399 1  7.84 34.21 27.69 21.36 14.99 10.57  5.68  2.67  91.9
150 1  12.399 1 10.73 45.95 37.12 28.22 19.62 13.94  7.22  2.91  91.9
150 1  12.399 1 11.02 45.12 37.24 28.38 19.80 14.04  7.25  3.00  91.9
Note: ambient 79 Lane 1 Heading  S.W thin Overlay test @ 50 meters
151 1  12.440 1  5.64 13.64 10.33  8.01  5.45  3.76  1.98  0.93  93.0
151 1  12.440 1  8.27 21.21 15.68 12.14  8.31  5.77  2.96  1.21  93.0
151 1  12.440 1  7.74  3.08  2.54  2.18  1.62  1.14  0.89  0.98  93.0
151 1  12.440 1 11.42 28.88 21.10 16.37 11.34  8.07  4.09  1.57  93.0
Note: ambient 79 Lane 1 Heading  S.W thin Overlay test @ 40 meters
152 1  12.475 1  5.50 17.81 13.35 10.39  7.04  5.07  2.96  1.45  94.5
152 1  12.475 1  8.22 28.17 20.24 15.72 10.66  7.71  4.41  2.11  94.5
152 1  12.475 1  0.00  9.00  7.31  6.28  4.56  3.33  2.22  1.20  94.5
152 1  12.475 1 10.86 38.12 27.22 21.18 14.57 10.62  6.06  2.87  94.5
Note: ambient 80 Lane 1 Heading  S.W thin Overlay test @ mile marker 8 B-9
153 1  12.500 1  5.87 12.21  9.92  8.35  6.54  5.05  3.23  1.66  95.9
153 1  12.500 1  8.34 18.44 15.08 12.62  9.86  7.71  4.79  2.32  95.9
153 1  12.500 1  7.72  5.98  4.77  4.41  3.80  3.13  2.82  2.29  95.9
153 1  12.500 1 11.39 25.04 20.54 17.14 13.46 10.58  6.57  3.04  95.9
Note: ambient 80 Lane 1 Heading  S.W thin Overlay
154 1  12.600 1  5.37  9.46  7.34  5.46  3.78  2.74  1.71  0.98  93.4
154 1  12.600 1  8.05 14.27 10.78  7.96  5.55  4.04  2.49  1.32  93.4
154 1  12.600 1 11.24 19.54 13.43 10.00  7.07  5.33  3.38  1.83  93.4
154 1  12.600 1  8.04  6.82  4.89  4.02  2.64  1.34  0.37  0.22  93.4
Note: ambient 80 Lane 1 Heading  S.W thin Overlay
155 1  12.701 1  5.60  9.64  7.63  6.02  4.18  2.88  1.55  0.99  91.9
155 1  12.701 1  8.46 14.72 11.27  8.83  6.13  4.34  2.30  1.24  91.9
155 1  12.701 1  2.87 23.11 15.13 12.14  9.07  6.48  3.35  1.86  91.9
155 1  12.701 1 11.17 19.16 14.63 11.47  8.05  5.77  3.15  1.72  91.9
Note: ambient 80 Lane 1 Heading  S.W thin Overlay
156 1  12.800 1  5.61 14.19 11.38  8.90  6.14  4.18  1.94  0.72  91.9
156 1  12.800 1  8.12 22.09 17.46 13.63  9.31  6.37  2.90  0.93  91.9
156 1  12.800 1  7.46  3.52  2.88  2.21  1.50  0.89  0.58  0.35  91.9
156 1  12.800 1 10.85 30.22 23.43 18.27 12.59  8.74  3.97  1.20  91.9
Note: ambient 80 Lane 1 Heading  S.W thin Overlay
157 1  12.905 1  6.24 12.27  9.10  7.31  5.09  3.53  1.70  0.56  86.8
157 1  12.905 1  8.97 17.53 13.47 10.84  7.60  5.34  2.60  0.79  86.8
157 1  12.905 1  8.83  1.76  0.81  0.99  0.61  5.52  0.16  0.79  86.8
157 1  12.905 1 11.90 22.83 18.13 14.63 10.36  7.32  3.56  1.05  86.8
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Note: ambient 79 Lane 1 Heading S. thin Overlay
158 1 13.000 1 6.23 15.84 11.70 9.07 6.26 4.32 2.30 1.16 88.6
158 1 13.000 1 8.86 23.45 17.50 13.54 9.33 6.44 3.34 1.58 88.6
158 1 13.000 1 11.84 30.70 23.51 18.13 12.51 8.70 4.54 2.02 88.6
158 1 13.000 1 11.82 28.84 23.52 18.23 12.62 8.82 4.55 2.06 88.6
Note: ambient 72 Lane 1 Heading S. thin Overlay
159 1 13.105 1 5.87 18.34 13.92 10.56 6.95 4.45 1.88 0.52 89.4
159 1 13.105 1 8.53 27.60 20.86 15.78 10.49 6.82 2.81 0.55 89.4
159 1 13.105 1 11.28 35.80 26.76 20.20 13.55 8.95 3.71 0.58 89.4
159 1 13.105 1 11.50 35.65 26.78 20.28 13.68 9.03 3.84 0.56 89.4
Note: ambient 72 Lane 1 Heading N.W thin Overlay
160 1 13.200 1 5.96 7.88 6.91 5.79 4.55 3.57 2.40 1.13 89.0
160 1 13.200 1 9.11 12.16 9.87 8.25 6.52 5.17 3.37 1.57 89.0
160 1 13.200 1 8.65 1.89 1.66 1.54 1.20 0.80 0.62 0.31 89.0
160 1 13.200 1 12.05 16.57 13.45 11.22 8.87 7.09 4.62 2.09 89.0
Note: ambient 72 Lane 1 Heading N.W thin Overlay
161 1 13.301 1 4.02 14.30 9.95 6.83 4.17 2.75 1.43 0.79 89.7
161 1 13.301 1 8.34 19.76 13.76 9.80 6.17 4.06 2.08 1.06 89.7
161 1 13.301 1 11.96 25.78 17.46 12.48 7.94 5.31 2.68 1.37 89.7
161 1 13.301 1 12.07 25.53 17.47 12.55 8.00 5.38 2.65 1.40 89.7
Note: ambient 72 Lane 1 Heading N.W New Pavement
161 1 13.302 1 6.25 12.80 9.17 6.44 4.03 2.73 1.55 0.74 90.1
161 1 13.302 1 9.05 19.15 13.65 9.65 6.08 4.13 2.25 1.05 90.1
161 1 13.302 1 11.80 25.27 18.31 12.97 8.27 5.69 3.03 1.36 90.1
161 1 13.302 1 12.00 25.53 18.44 13.15 8.43 5.81 3.09 1.44 90.1
Note: ambient 72 Lane 1 Heading N.W New Pavement
162 1 13.401 1 6.31 13.76 10.26 7.70 5.35 3.82 2.17 0.95 91.2
162 1 13.401 1 9.06 20.28 14.71 11.10 7.84 5.65 3.16 1.32 91.2
162 1 13.401 1 9.21 27.18 19.69 14.69 10.38 7.63 4.33 1.85 91.2
162 1 13.401 1 12.05 26.49 19.48 14.83 10.59 7.76 4.35 1.75 91.2
Note: ambient 74 Lane 1 Heading N.W
163 1 13.500 1 6.23 14.10 10.13 7.80 5.61 4.10 2.48 1.36 89.7
163 1 13.500 1 9.00 20.89 14.71 11.29 8.16 6.03 3.61 1.85 89.7
163 1 13.500 1 0.00 7.53 5.76 4.88 3.60 2.50 1.74 2.97 89.7
163 1 13.500 1 11.96 27.31 19.30 14.93 10.93 8.20 4.92 2.38 89.7
Note: ambient 74 Lane 1 Heading N.W
164 1 13.602 1 6.34 13.55 10.65 8.10 5.60 4.25 2.80 1.54 89.4
164 1 13.602 1 9.09 20.25 16.07 12.20 8.41 6.32 4.08 2.15 89.4
164 1 13.602 1 8.59 20.13 16.10 12.19 8.32 6.18 3.88 2.08 89.4
164 1 13.602 1 12.04 27.18 21.73 16.60 11.57 8.71 5.53 2.89 89.4
Note: ambient 74 Lane 1 Heading S.W
165 1 13.657 1 6.25 18.46 13.61 9.87 6.24 4.25 2.44 1.39 89.4
165 1 13.657 1 8.90 27.29 20.67 15.02 9.60 6.49 3.62 1.94 89.4
165 1 13.657 1 11.88 36.53 28.47 20.90 13.46 9.10 4.86 2.63 89.4
165 1 13.657 1 11.82 35.95 28.36 20.91 13.53 9.18 4.97 2.60 89.4
Note: ambient 74 Lane 1 Heading S.W Test @ 50 Meters
166 1 13.700 1 6.02 17.94 14.61 11.65 8.01 5.38 2.60 1.22 87.5
166 1 13.700 1 8.86 27.09 21.94 17.41 12.01 8.09 3.77 1.53 87.5
166 1 13.700 1 0.00 8.39 7.21 6.42 5.01 3.64 2.14 3.52 87.5
166 1 13.700 1 11.64 36.43 29.46 23.24 16.13 11.01 5.15 1.82 87.5
Note: ambient 74 Lane 1 Heading S.W Test @ 50 Meters
167 1 13.801 1 6.13 12.80 10.22 7.96 5.47 3.67 1.87 0.81 86.1
167 1 13.801 1 9.04 19.37 14.15 10.89 7.43 5.04 2.57 1.07 86.1
167 1 13.801 1 11.88 25.77 19.25 14.80 10.14 6.84 3.51 1.45 86.1
167 1 13.801 1 0.27 7.64 5.65 4.55 3.16 2.09 4.43 1.97 86.1
Note: ambient 74 Lane 1 Heading S.W Test @ 50 Meters
168 1 13.901 1 6.19 11.57 8.31 6.17 3.71 2.11 0.67 0.32 87.9
168 1 13.901 1 9.27 17.52 12.65 9.41 5.70 3.26 0.98 0.42 87.9
168 1 13.901 1 12.21 23.67 17.40 12.96 7.90 4.61 1.47 0.59 87.9
168 1 13.901 1 12.01 22.90 16.89 12.65 7.75 4.51 1.45 0.59 87.9
Note: ambient 69 Lane 1 Heading W.

```
169 1  14.001 1  5.92 19.55 14.01 10.46  6.74  4.30  2.03  1.01  88.3
169 1  14.001 1  8.53 30.00 21.78 16.24 10.52  6.71  3.02  1.41  88.3
169 1  14.001 1 11.30 33.84 30.19 22.51 14.75  9.53  3.99  1.61  88.3
169 1  14.001 1 11.40 35.61 30.57 22.88 15.03  9.73  4.19  1.67  88.3
Note: ambient 69 Lane 1 Heading  N.
170 1  14.051 1  6.10 22.22 17.43 14.13 10.14  7.23  4.04  1.93  89.7
170 1  14.051 1  8.60 34.59 27.23 21.88 15.65 11.18  6.01  2.57  89.7
170 1  14.051 1 10.96 47.63 37.60 29.97 21.45 15.27  8.19  3.26  89.7
170 1  14.051 1 11.68 50.16 39.54 31.52 22.60 16.16  8.52  3.03  89.7
Note: ambient 69 Lane 1 Heading  N. Test @ 50 Meter
171 1  14.102 1  5.91 17.54 14.18 11.55  8.49  6.20  3.50  1.59  90.1
171 1  14.102 1  8.67 27.94 22.73 18.30 13.38  9.70  5.25  2.09  90.1
171 1  14.102 1 11.49 38.35 31.56 25.34 18.54 13.50  7.26  2.64  90.1
171 1  14.102 1 11.52 38.49 31.77 25.53 18.73 13.66  7.34  2.70  90.1
Note: ambient 69 Lane 1 Heading  N. Test @ 50 Meter
172 1  14.151 1  6.14 15.34 11.96  9.77  7.32  5.49  3.35  1.62  92.7
172 1  14.151 1  9.12 23.34 18.27 14.85 11.13  8.43  5.16  2.45  92.7
172 1  14.151 1  0.67 19.69 17.22 15.04 12.99 11.05  7.35  3.68  92.7
172 1  14.151 1 11.78 31.28 24.76 20.10 15.14 11.50  6.96  3.12  92.7
Note: ambient 69 Lane 1 Heading  N. Test @ 50 Meter
173 1  14.201 1  5.99 22.27 16.64 13.14  9.18  6.36  3.41  1.66  90.8
173 1  14.201 1  9.00 33.12 24.90 19.57 13.74  9.52  5.00  2.22  90.8
173 1  14.201 1 11.57 43.83 33.76 26.42 18.77 13.23  6.93  3.04  90.8
173 1  14.201 1 11.56 43.35 33.65 26.45 18.84 13.30  6.96  3.12  90.8
Note: ambient 69 Lane 1 Heading  N.W Test @ 50 Meter
174 1  14.251 1  6.05 10.56  8.55  6.90  5.08  3.69  2.03  1.04  89.4
174 1  14.251 1  9.08 15.97 13.05 10.38  7.64  5.60  2.99  1.39  89.4
174 1  14.251 1 11.90 21.77 17.71 14.07 10.35  7.68  4.17  1.78  89.4
174 1  14.251 1 12.15 21.92 17.70 14.09 10.40  7.73  4.22  1.69  89.4
Note: ambient 69 Lane 1 Heading  N.W Test @ 50 Meter
175 1  14.300 1  6.04 18.83 14.32 11.43  8.28  5.99  3.29  1.48  90.5
175 1  14.300 1  8.99 29.05 22.31 17.73 12.82  9.25  4.98  2.05  90.5
175 1  14.300 1 11.77 39.34 30.55 24.26 17.62 12.75  6.83  2.66  90.5
175 1  14.300 1 11.66 38.85 30.39 24.18 17.65 12.81  6.96  2.67  90.5
Note: ambient 69 Lane 1 Heading  West. Test @ 50 Meter
176 1  14.351 1  6.30 12.45  9.71  7.69  5.65  4.12  2.30  0.92  89.4
176 1  14.351 1  9.08 18.76 14.61 11.57  8.51  6.28  3.48  1.29  89.4
176 1  14.351 1 11.90 25.20 19.72 15.60 11.49  8.52  4.72  1.69  89.4
176 1  14.351 1 12.19 25.11 19.81 15.67 11.58  8.62  4.80  1.74  89.4
Note: ambient 69 Lane 1 Heading  West. Test @ 50 Meter
177 1  14.401 1  5.98 15.61 12.14  9.72  6.99  5.09  3.04  1.70  86.4
177 1  14.401 1  8.73 23.74 18.42 14.59 10.38  7.47  4.17  2.02  86.4
177 1  14.401 1  8.21  3.89  1.98  1.61  1.12  1.02  0.66  0.73  86.4
177 1  14.401 1 11.68 31.90 24.99 19.79 14.27 10.46  5.92  2.82  86.4
Note: ambient 69 Lane 1 Heading  North West. Test @ 50 Meter
178 1  14.451 1  6.27 11.39  7.86  5.57  3.41  2.22  1.29  0.83  88.3
178 1  14.451 1  9.39 17.99 12.48  8.82  5.40  3.56  1.96  1.32  88.3
178 1  14.451 1 12.27 23.82 16.84 11.92  7.31  4.79  2.62  1.69  88.3
178 1  14.451 1 12.39 23.72 16.80 11.95  7.38  4.85  2.62  1.73  88.3
Note: ambient 69 Lane 1 Heading  North West. Test @ 50 Meter
179 1  14.500 1  6.29 10.76  7.96  6.12  4.10  2.76  1.36  0.55  87.2
179 1  14.500 1  9.36 16.30 12.10  9.31  6.25  4.26  2.05  0.73  87.2
179 1  14.500 1 12.07 22.01 16.56 12.67  8.57  5.86  2.89  0.98  87.2
179 1  14.500 1 12.07 21.81 16.44 12.65  8.57  5.89  2.89  0.96  87.2
Note: ambient 71 Lane 1 Heading  North West. Test @ 50 Meter
180 1  14.552 1  6.31  4.84  3.32  2.55  1.88  1.47  1.01  0.59  88.6
180 1  14.552 1  9.27  7.37  5.11  3.91  2.89  2.26  1.54  0.87  88.6
180 1  14.552 1 12.41  9.92  6.91  5.31  3.93  3.08  2.10  1.19  88.6
180 1  14.552 1 12.40  9.81  6.93  5.32  3.97  3.10  2.11  1.24  88.6
Note: ambient 71 Lane 1 Heading  North West. Test @ 50 Meter
181 1  14.605 1  6.15 10.09  7.43  6.03  4.48  3.37  2.08  1.03  87.9
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181 1 14.605 1 9.06 15.58 11.54 9.34 6.93 5.20 3.18 1.56 87.9
181 1 14.605 1 11.95 20.90 15.84 12.77 9.50 7.13 4.35 2.10 87.9
181 1 14.605 1 12.06 20.76 15.90 12.91 9.57 7.21 4.42 2.15 87.9
Note: ambient 71 Lane 1 Heading North West. Test @ 50 Meter
182 1 14.651 1 6.43 7.31 4.93 3.97 2.94 2.18 1.37 0.78 88.6
182 1 14.651 1 9.33 11.12 7.56 6.08 4.50 3.37 2.10 1.14 88.6
182 1 14.651 1 12.27 14.81 10.23 8.19 6.08 4.57 2.85 1.51 88.6
182 1 14.651 1 12.19 14.48 10.04 8.07 6.02 4.53 2.87 1.53 88.6
Note: ambient 71 Lane 1 Heading North. Test @ 50 Meter
183 1 14.701 1 6.23 8.29 5.74 4.30 3.08 2.31 1.59 1.00 88.6
183 1 14.701 1 9.03 12.22 8.46 6.30 4.50 3.38 2.31 1.36 88.6
183 1 14.701 1 12.04 16.21 11.32 8.45 6.09 4.63 3.12 1.83 88.6
183 1 14.701 1 12.00 15.99 11.22 8.44 6.09 4.64 3.22 1.83 88.6
Note: ambient 71 Lane 1 Heading North. Test @ 50 Meter
184 1 14.750 1 6.32 9.89 6.42 4.90 3.42 2.45 1.43 0.76 88.3
184 1 14.750 1 9.04 14.68 9.51 7.23 5.03 3.67 2.08 1.06 88.3
184 1 14.750 1 12.01 19.93 12.90 9.77 6.82 5.06 2.90 1.47 88.3
184 1 14.750 1 11.97 19.44 12.75 9.68 6.81 5.06 2.89 1.46 88.3
Note: ambient 71 Lane 1 Heading North. Test @ 50 Meter Finish Mark

M3
Date-Time: 9-24-2002 12:37:40
Sensors: Chop201F Chop202F Chop203F Chop204F Chop205F Chop206F Chop207F
Weight/spring: 3
Location: Mesa verde
Temp: 73.00
Operator: Adrian

Comments: 14.800 starting @ Lane 2
185 2 14.800 1 6.02 22.41 15.48 11.39 7.39 4.82 2.32 1.11 103.8
185 2 14.800 1 9.28 32.79 24.32 17.77 11.65 7.64 3.41 1.39 103.8
185 2 14.800 1 11.95 35.46 31.96 23.41 15.50 10.29 4.48 1.61 103.8

Note: ambient 69 Starting Point South East Lane 2
186 2 14.747 1 5.83 13.63 9.75 7.71 5.58 4.06 2.36 1.19 104.1
186 2 14.747 1 8.93 20.61 15.12 11.88 8.64 6.28 3.53 1.54 104.1
186 2 14.747 1 11.85 27.16 20.37 15.95 11.63 8.57 4.82 1.96 104.1

Note: ambient 69 Starting Point South East Lane 2
187 2 14.650 1 6.19 14.67 10.74 8.19 5.56 3.78 2.06 1.28 103.9
187 2 14.650 1 9.21 22.19 16.51 12.55 8.51 5.76 3.02 1.46 103.9
187 2 14.650 1 12.15 28.54 21.87 16.73 11.44 7.87 4.06 1.84 103.9

Note: ambient 69 South Lane 2
188 2 14.550 1 5.72 17.28 12.01 9.03 5.79 3.67 1.39 0.46 103.8
188 2 14.550 1 8.73 27.16 20.40 15.44 9.99 6.34 2.22 0.49 103.8
188 2 14.550 1 11.63 37.30 28.50 21.49 13.88 8.87 3.01 0.55 103.8

Note: ambient 69 South Lane 2
189 2 14.448 1 6.37 13.71 10.82 8.75 6.32 4.55 2.51 1.45 105.1
189 2 14.448 1 9.30 20.69 16.35 13.24 9.68 7.02 3.79 1.80 105.1
189 2 14.448 1 12.00 26.88 21.33 17.32 12.77 9.41 5.06 2.08 105.1

Note: ambient 69 South east Lane 2
190 2 14.350 1 5.94 20.69 15.00 10.83 6.79 4.32 1.93 0.95 104.7
190 2 14.350 1 8.53 31.92 23.29 16.77 10.60 6.79 2.81 1.19 104.7
190 2 14.350 1 11.49 42.24 31.85 23.15 14.84 9.68 3.81 1.19 104.7

Note: ambient 69 east Lane 2
191 2 14.249 1 5.52 23.60 20.15 16.05 10.99 7.39 3.62 1.98 105.1
191 2 14.249 1 7.85 35.76 30.09 23.69 16.09 10.79 4.94 2.41 105.1
191 2 14.249 1 11.06 43.44 38.37 29.73 20.08 13.51 5.99 2.34 105.1

Note: ambient 69 east Lane 2
192 2 14.149 1 5.76 13.47 11.33 9.66 7.55 5.77 3.47 1.79 104.5
192 2 14.149 1 8.68 21.04 17.53 14.80 11.51 8.83 5.10 2.30 104.5
192 2 14.149 1 11.60 28.76 23.90 20.10 15.67 12.07 6.95 2.86 104.5

Note: ambient 70 south east Lane 2
193 2 14.050 1 5.38 21.19 17.24 13.68 9.51 6.60 3.30 1.75 104.0
193 2 14.050 1 8.07 34.60 27.86 21.96 15.31 10.63 5.11 2.29 104.0
193 2 14.050 1 10.75 42.62 37.94 29.78 20.88 14.64 6.98 2.62 104.0

Note: ambient 70 south
194 2 13.944 1 5.96 17.38 12.22 8.75 5.07 2.91 1.08 0.00 104.2
194 2 13.944 1 8.73 25.84 18.90 13.62 8.14 4.76 1.68 0.89 104.2
194 2 13.944 1 11.53 34.06 25.55 18.57 11.27 6.74 2.32 0.79 104.2

Note: ambient 72 south
195 2 13.849 1 5.69 14.97 11.84 9.20 6.19 4.31 2.45 1.20 104.6
195 2 13.849 1 8.68 24.01 19.42 14.98 10.12 7.09 3.94 1.80 104.6

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195 2  13.849 1 11.38 31.81 26.15 20.28 13.79  9.79  5.38  2.31 104.6

Note: ambient 72 N.E
196 2  13.729 1  5.80 11.03  8.35  6.56  4.57  3.22  1.86  0.00 104.2
196 2  13.729 1  8.78 17.14 13.12 10.30  7.18  5.12  2.82  1.35 104.2
196 2  13.729 1 11.62 22.95 17.65 13.89  9.76  7.02  3.79  1.55 104.2

Note: ambient 74 N.
197 2  13.648 1  5.57 24.36 18.33 13.64  8.92  6.13  3.42  1.89 104.6
197 2  13.648 1  8.31 37.66 28.52 21.16 13.91  9.62  5.11  2.62 104.6
197 2  13.648 1 10.97 49.96 37.88 28.39 18.94 13.29  6.86  3.30 104.6

Note: ambient 74 N.
198 2  13.550 1  5.53 19.49 15.11 11.13  7.30  4.80  2.49  1.43 104.4
198 2  13.550 1  8.24 30.55 23.43 17.19 11.27  7.44  3.66  1.85 104.4
198 2  13.550 1 10.71 42.62 32.33 23.59 15.51 10.30  4.78  2.11 104.4

Note: ambient 74 N.E
199 2  13.394 1  5.61 14.53  9.92  7.17  4.83  3.43  1.98  1.16 104.1
199 2  13.394 1  8.54 22.83 15.65 11.30  7.69  5.47  3.10  1.60 104.1
199 2  13.394 1 11.42 30.07 21.21 15.49 10.74  7.77  4.31  1.91 104.1

Note: ambient 75 Heading S.E
200 2  13.346 1  5.61 13.94 11.11  8.86  6.25  4.43  2.41  1.28 103.8
200 2  13.346 1  8.35 21.55 17.21 13.62  9.58  6.82  3.58  1.69 103.8
200 2  13.346 1 11.23 28.69 23.41 18.50 13.14  9.45  4.91  2.01 103.8

Note: ambient 76 Heading S
201 2  13.231 1  5.61  8.94  6.50  5.19  3.82  2.97  1.97  0.00 103.5
201 2  13.231 1  8.75 13.94 10.18  8.11  5.97  4.64  3.00  1.55 103.5
201 2  13.231 1 11.62 18.23 13.47 10.81  8.00  6.25  4.04  1.98 103.5

Note: ambient 76 Heading S
202 2  13.148 1  5.44 19.21 15.88 12.81  9.24  6.54  3.50  1.73 103.8
202 2  13.148 1  8.06 29.26 23.94 19.14 13.74  9.65  4.84  2.08 103.8
202 2  13.148 1 11.01 38.53 31.43 24.97 17.95 12.69  6.22  2.32 103.8

Note: ambient 77 Heading S.E
203 2  13.050 1  5.60  9.02  5.86  4.35  3.01  2.29  1.70  0.00 103.6
203 2  13.050 1  8.67 13.93  9.40  7.01  4.86  3.68  2.54  1.76 103.6
203 2  13.050 1 11.50 18.26 12.83  9.64  6.75  5.17  3.53  2.34 103.6

Note: ambient 77 Heading S.E
204 2  13.025 1  5.58  7.83  5.85  4.48  3.23  2.43  1.77  0.00 103.9
204 2  13.025 1  8.44 12.32  9.11  6.96  5.02  3.83  2.45  1.62 103.9
204 2  13.025 1 11.57 16.75 12.47  9.58  6.96  5.32  3.50  2.02 103.9

Note: ambient 77 Heading S.E 25 meters
205 2  12.943 1  5.76  9.46  6.35  4.36  2.58  1.57  0.76  0.00 104.1
205 2  12.943 1  8.53 14.37  9.64  6.62  3.92  2.37  1.08  0.72 104.1
205 2  12.943 1 11.73 18.76 12.84  8.86  5.23  3.25  1.48  0.99 104.1

Note: ambient 77 Heading N.
206 2  12.850 1  5.50 16.52 12.04  8.92  5.84  3.92  2.13  1.22 103.9
206 2  12.850 1  8.39 26.30 19.36 14.27  9.33  6.21  3.23  1.71 103.9
206 2  12.850 1 11.09 34.68 26.21 19.38 12.71  8.52  4.36  2.15 103.9

Note: ambient 77 Heading N.
207 2  12.719 1  5.24 13.50  9.39  6.92  4.59  3.18  1.99  1.27 104.2
207 2  12.719 1  8.05 21.50 14.95 10.95  7.24  5.07  2.98  1.74 104.2
207 2  12.719 1 11.00 28.71 20.32 14.79  9.78  6.95  4.01  2.26 104.2
```

Note: ambient 78 Heading N.

208	2	12.648	1	5.75	8.12	4.98	3.57	2.53	1.91	0.82	0.00	104.5
208	2	12.648	1	8.83	12.70	7.84	5.54	3.83	2.91	1.94	0.00	104.5
208	2	12.648	1	11.52	16.15	10.55	7.44	5.20	4.01	2.61	1.58	104.5

Note: ambient 79 Heading E.

209	2	12.549	1	5.49	11.43	8.10	6.14	4.44	3.35	2.26	0.00	103.9
209	2	12.549	1	8.39	17.64	12.73	9.59	6.94	5.26	3.50	1.90	103.9
209	2	12.549	1	11.49	23.35	17.30	13.02	9.47	7.24	4.74	2.48	103.9

Note: ambient 79 Heading N.E

210	2	12.451	1	5.75	9.21	5.91	4.28	3.17	2.48	1.66	0.00	104.4
210	2	12.451	1	8.53	14.06	9.18	6.66	4.97	3.87	2.52	1.46	104.4
210	2	12.451	1	11.64	18.70	12.48	9.11	6.84	5.35	3.49	1.83	104.4

Note: ambient 79 Heading N.E

211	2	12.349	1	5.77	10.02	6.23	4.41	2.91	2.04	1.23	0.00	99.2
211	2	12.349	1	8.75	15.74	9.90	6.95	4.62	3.25	1.83	0.98	99.2
211	2	12.349	1	11.71	20.62	13.25	9.34	6.25	4.44	2.52	1.23	99.2

Note: ambient 79 Heading S.E

212	2	12.250	1	5.75	12.75	9.39	7.40	5.54	4.19	2.61	1.37	93.4
212	2	12.250	1	8.54	19.94	14.61	11.43	8.51	6.47	3.85	1.88	93.4
212	2	12.250	1	11.29	26.50	19.72	15.49	11.63	8.93	5.26	2.52	93.4

Note: ambient 78 Heading S.E

213	2	12.150	1	5.70	11.96	7.75	5.69	4.14	3.15	2.29	0.00	94.1
213	2	12.150	1	8.64	18.12	11.90	8.70	6.39	4.94	3.32	1.94	94.1
213	2	12.150	1	11.61	23.91	16.08	11.76	8.70	6.77	4.47	2.39	94.1

Note: ambient 78 Heading N.E

214	2	12.048	1	6.63	8.14	5.27	4.02	2.94	2.25	1.50	0.00	91.6
214	2	12.048	1	9.31	11.72	7.68	5.84	4.29	3.31	2.11	0.00	91.6
214	2	12.048	1	12.34	15.71	10.42	7.94	5.82	4.49	2.88	1.47	91.6

Note: ambient 78 Heading N.E

215	2	11.950	1	6.43	12.97	10.78	9.36	7.60	6.06	3.99	2.32	94.8
215	2	11.950	1	9.08	18.82	15.72	13.51	10.87	8.64	5.52	2.91	94.8
215	2	11.950	1	11.99	25.57	21.59	18.48	14.92	11.87	7.61	3.94	94.8

Note: ambient 76 Heading N.W

216	2	11.850	1	6.25	13.35	9.27	7.11	4.89	3.44	1.81	0.78	97.4
216	2	11.850	1	8.94	19.81	14.00	10.61	7.36	5.15	2.54	0.85	97.4
216	2	11.850	1	11.89	26.94	19.38	14.71	10.28	7.25	3.69	1.14	97.4

Note: ambient 76 Heading N.W

217	2	11.655	1	6.04	11.57	8.63	6.99	5.10	3.73	2.17	1.03	91.9
217	2	11.655	1	8.94	17.70	13.22	10.66	7.76	5.72	3.21	1.29	91.9
217	2	11.655	1	11.57	23.07	17.65	14.17	10.32	7.63	4.29	1.58	91.9

Note: ambient 76 Heading N.W

218	2	11.650	1	6.37	10.21	7.28	5.53	4.06	3.19	2.24	0.00	90.5
218	2	11.650	1	9.08	14.79	10.63	8.04	5.92	4.61	3.18	1.85	90.5
218	2	11.650	1	12.07	19.43	14.26	10.79	8.05	6.29	4.32	2.44	90.5

Note: ambient 76 Heading N.

219	2	11.550	1	5.83	16.83	12.71	9.25	7.01	5.62	3.97	2.20	90.8
219	2	11.550	1	8.32	24.04	18.56	13.48	10.27	8.26	5.79	3.13	90.8
219	2	11.550	1	11.18	31.02	26.43	18.81	14.38	11.60	7.99	4.24	90.8

Note: ambient 77 Heading N.E

220	2	11.449	1	6.40	11.49	9.00	7.18	5.33	4.08	2.59	1.46	88.6
220	2	11.449	1	8.98	16.86	13.17	10.52	7.87	6.05	3.76	2.02	88.6
220	2	11.449	1	12.12	22.34	17.62	14.15	10.70	8.37	5.21	2.65	88.6

Note: ambient 77 Heading E.

221	2	11.337	1	6.63	7.85	5.10	3.55	2.24	1.49	0.00	0.00	88.6
221	2	11.337	1	9.36	11.23	7.37	5.13	3.26	2.22	1.20	0.64	88.6
221	2	11.337	1	12.34	14.75	9.60	6.69	4.30	2.97	1.69	0.84	88.6

Note: ambient 74 Heading N.W

222	2	11.250	1	6.13	11.49	8.56	6.47	4.64	3.48	2.30	1.59	90.8
222	2	11.250	1	8.98	17.20	12.66	9.48	6.80	5.09	3.14	1.81	90.8
222	2	11.250	1	11.96	22.35	16.52	12.44	8.98	6.81	4.20	2.28	90.8

Note: ambient 74 Heading N.W

223	2	11.150	1	6.59	5.95	4.13	3.31	2.48	1.88	1.21	0.00	82.4
223	2	11.150	1	9.54	8.71	6.08	4.89	3.64	2.79	1.77	0.86	82.4
223	2	11.150	1	12.30	11.31	7.99	6.41	4.80	3.70	2.34	1.16	82.4

Note: ambient 72 Heading N.E

224	2	11.050	1	6.18	9.91	5.77	4.43	3.22	2.46	1.73	0.00	88.3
224	2	11.050	1	8.95	15.03	8.81	6.74	4.93	3.80	2.53	1.45	88.3
224	2	11.050	1	12.98	20.24	12.58	9.60	7.10	5.48	3.71	2.00	88.3

Note: ambient 72 Heading N.W

225	2	10.944	1	6.34	5.16	3.30	2.48	1.75	1.31	0.00	0.00	83.1
225	2	10.944	1	9.22	7.79	5.07	3.83	2.71	2.04	1.38	0.90	83.1
225	2	10.944	1	12.45	10.36	6.90	5.24	3.73	2.83	1.88	1.19	83.1

Note: ambient 73 Heading West.

226	2	10.848	1	6.53	7.23	5.72	4.98	4.14	3.41	2.41	1.27	83.9
226	2	10.848	1	9.05	10.51	8.44	7.28	6.04	5.02	3.57	1.90	83.9
226	2	10.848	1	12.13	13.87	11.23	9.64	8.01	6.69	4.73	2.56	83.9

Note: ambient 74 Heading N.W

227	2	10.751	1	6.18	9.06	5.45	4.08	3.05	2.44	1.70	0.95	89.4
227	2	10.751	1	9.25	13.49	8.30	6.12	4.58	3.66	2.52	1.36	89.4
227	2	10.751	1	12.10	17.12	10.99	8.14	6.13	4.92	3.40	1.81	89.4

Note: ambient

228	2	10.650	1	6.32	11.45	9.04	7.00	5.16	3.90	2.57	1.48	87.9
228	2	10.650	1	8.82	16.82	13.40	10.33	7.61	5.74	3.68	2.05	87.9
228	2	10.650	1	11.75	22.62	18.04	13.93	10.35	7.98	5.08	2.92	87.9

Note: ambient 75 Heading Down Hill N.E

229	2	10.544	1	6.27	9.72	6.40	4.90	3.54	2.60	1.48	0.57	84.6
229	2	10.544	1	8.62	13.88	9.21	6.99	5.04	3.71	2.12	0.84	84.6
229	2	10.544	1	11.90	18.13	12.33	9.36	6.72	5.04	2.91	1.16	84.6

Note: ambient 75 Heading N.E

230	2	10.448	1	6.26	7.97	5.52	4.17	3.05	2.31	1.52	0.83	85.7
230	2	10.448	1	8.90	11.77	8.24	6.20	4.51	3.46	2.21	1.17	85.7
230	2	10.448	1	12.21	16.11	11.39	8.51	6.22	4.71	3.01	1.60	85.7

Note: ambient 75 Heading N.E

231	2	10.315	1	6.34	8.35	6.09	4.69	3.51	2.73	1.85	0.98	89.7
231	2	10.315	1	9.15	12.17	8.89	6.82	5.08	4.00	2.68	1.43	89.7
231	2	10.315	1	12.00	15.89	11.63	8.96	6.75	5.34	3.56	1.94	89.7

Note: ambient 73 Heading N.

232	2	10.249	1	6.13	12.55	8.86	6.51	4.68	3.65	2.63	1.50	87.5
232	2	10.249	1	8.59	18.66	13.28	9.74	7.00	5.48	3.85	2.15	87.5
232	2	10.249	1	11.60	25.18	18.10	13.26	9.64	7.56	5.25	2.88	87.5

Note: ambient 74 Heading N.W

233	2	10.149	1	6.01	10.41	8.03	6.38	4.76	3.67	2.37	1.27	87.9
233	2	10.149	1	8.77	15.69	12.22	9.66	7.20	5.54	3.55	1.87	87.9
233	2	10.149	1	11.82	21.09	16.55	13.08	9.82	7.55	4.87	2.44	87.9

Note: ambient 74 Heading N.W

234	2	10.048	1	5.97	11.55	9.25	7.67	5.78	4.29	2.51	1.21	85.3
234	2	10.048	1	8.55	17.12	13.84	11.38	8.59	6.42	3.74	1.66	85.3
234	2	10.048	1	11.47	23.13	18.69	15.37	11.63	8.78	5.14	2.26	85.3

Note: ambient 74 Heading N.E

235	2	9.949	1	6.01	11.54	8.73	6.78	4.62	3.20	1.86	1.07	85.7
235	2	9.949	1	8.42	17.20	13.04	10.06	6.84	4.75	2.75	1.55	85.7
235	2	9.949	1	11.29	22.91	17.64	13.56	9.25	6.57	3.69	2.11	85.7

Note: ambient 74 Heading E.

236	2	9.849	1	6.26	7.46	5.45	4.24	3.04	2.31	1.69	1.12	84.2
236	2	9.849	1	8.86	10.58	7.83	6.07	4.39	3.42	2.41	1.69	84.2
236	2	9.849	1	11.68	13.84	10.14	7.84	5.70	4.57	3.10	2.26	84.2

Note: ambient 73 Heading S.E.

237	2	9.691	1	6.08	10.08	7.41	5.90	4.40	3.32	2.17	1.16	82.0
237	2	9.691	1	8.54	14.54	10.80	8.60	6.38	4.84	3.07	1.56	82.0
237	2	9.691	1	11.25	19.39	14.62	11.61	8.67	6.57	4.15	2.12	82.0

Note: ambient 73 Heading S.

238	2	9.647	1	6.07	11.64	8.79	6.82	4.61	3.02	1.70	0.87	82.4
238	2	9.647	1	8.76	16.99	12.90	9.94	6.71	4.38	2.36	1.19	82.4
238	2	9.647	1	11.62	22.55	17.31	13.43	9.02	6.07	3.23	1.66	82.4

Note: ambient 73 Heading S.

239	2	9.549	1	6.10	6.96	5.19	3.99	2.79	1.99	1.18	0.70	81.3
239	2	9.549	1	8.88	10.32	7.75	5.95	4.16	3.00	1.78	0.99	81.3
239	2	9.549	1	11.72	13.58	10.26	7.87	5.52	4.04	2.33	1.39	81.3

Note: ambient 73 Heading S.

240	2	9.449	1	6.10	8.89	6.73	5.21	3.80	2.90	2.01	1.25	82.8
240	2	9.449	1	9.03	12.77	9.65	7.42	5.42	4.19	2.78	1.72	82.8
240	2	9.449	1	11.66	16.34	12.45	9.58	6.98	5.43	3.58	2.25	82.8

Note: ambient 74 Heading S.

241	2	9.349	1	6.26	8.29	6.33	5.01	3.74	2.84	1.89	1.09	85.7
241	2	9.349	1	8.92	11.85	9.05	7.12	5.36	4.09	2.68	1.54	85.7
241	2	9.349	1	11.97	15.63	11.95	9.40	7.09	5.49	3.50	2.02	85.7

Note: ambient 74 Heading S.E

242	2	9.250	1	6.04	12.40	9.35	7.38	5.04	3.39	1.63	0.71	88.6
242	2	9.250	1	8.71	18.54	14.05	10.98	7.49	5.11	2.42	1.04	88.6
242	2	9.250	1	11.69	25.06	19.06	14.90	10.23	7.05	3.30	1.43	88.6

Note: ambient 74 Heading S.E

243	2	9.150	1	6.08	7.91	5.92	4.70	3.44	2.60	1.65	0.97	86.8
243	2	9.150	1	8.87	11.58	8.70	6.88	5.05	3.83	2.40	1.36	86.8
243	2	9.150	1	11.83	15.34	11.52	9.15	6.74	5.16	3.19	1.77	86.8

Note: ambient 75 Heading S.E

244	2	9.050	1	5.86	14.36	11.03	8.64	6.00	4.21	2.42	1.35	85.7

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244 2   9.050 1  8.45 21.65 16.84 13.05  9.17  6.50  3.65  1.92  85.7
244 2   9.050 1 11.14 28.49 22.31 17.33 12.33  8.86  4.98  2.50  85.7

Note: ambient 76 Heading  S.E
245 2   8.949 1  5.72 13.41 10.26  8.15  5.77  4.19  2.65  1.52  84.6
245 2   8.949 1  8.33 20.07 15.54 12.22  8.69  6.38  3.94  2.21  84.6
245 2   8.949 1 11.27 26.73 20.86 16.34 11.73  8.68  5.19  2.91  84.6

Note: ambient 76 Heading  S.E
246 2   8.849 1  5.82 13.40 10.28  8.20  5.82  4.23  2.49  1.30  86.4
246 2   8.849 1  8.42 19.89 15.45 12.28  8.80  6.44  3.78  1.92  86.4
246 2   8.849 1 11.39 26.41 20.53 16.26 11.73  8.71  5.02  2.35  86.4

Note: ambient 78 Heading  S.E
247 2   8.825 1  5.76 11.27  8.54  6.75  4.73  3.28  2.04  1.13  87.9
247 2   8.825 1  8.61 17.22 13.11 10.34  7.27  5.11  3.08  1.69  87.9
247 2   8.825 1 11.47 23.17 17.78 13.96  9.87  6.98  4.16  2.23  87.9

Note: ambient 78 Heading  S.E Test @ 25 meters
248 2   8.750 1  5.71 11.33  8.71  6.93  5.03  3.76  2.37  1.32  91.2
248 2   8.750 1  8.55 17.04 13.27 10.48  7.64  5.76  3.52  1.92  91.2
248 2   8.750 1 11.50 22.48 17.60 13.94 10.24  7.76  4.75  2.50  91.2

Note: ambient 78 Heading  S.E Test
249 2   8.722 1  5.80 10.00  7.77  6.19  4.54  3.38  2.11  1.19  91.2
249 2   8.722 1  8.43 14.65 11.41  9.09  6.67  5.06  3.13  1.71  91.2
249 2   8.722 1 11.30 19.24 15.02 12.03  8.85  6.78  4.21  2.22  91.2

Note: ambient 80 Heading  S.E
250 2   8.649 1  5.71 12.38  9.69  7.82  5.76  4.27  2.54  1.31  90.5
250 2   8.649 1  8.38 18.51 14.55 11.67  8.60  6.42  3.77  1.85  90.5
250 2   8.649 1 11.22 24.73 19.50 15.65 11.62  8.80  5.17  2.44  90.5

Note: ambient 80 Heading  S.E
251 2   8.549 1  6.02 12.16  9.19  7.25  5.10  3.57  2.01  1.12  94.1
251 2   8.549 1  8.55 17.69 13.34 10.45  7.39  5.23  2.84  1.54  94.1
251 2   8.549 1 11.55 23.40 17.71 13.83  9.78  7.06  3.84  2.04  94.1

Note: ambient 81 Heading  S.E
252 2   8.449 1  5.81 12.95 10.21  7.97  5.48  3.88  2.24  1.20  94.5
252 2   8.449 1  8.45 18.80 14.89 11.54  7.94  5.68  3.18  1.65  94.5
252 2   8.449 1 11.33 24.59 19.38 15.03 10.35  7.61  4.20  2.01  94.5

Note: ambient 81 Heading  S.E
253 2   8.350 1  5.98 11.15  8.53  6.63  4.75  3.44  2.12  1.27  93.8
253 2   8.350 1  8.59 16.23 12.44  9.61  6.94  5.10  3.11  1.75  93.8
253 2   8.350 1 11.35 21.19 16.32 12.64  9.24  6.85  4.24  2.33  93.8

Note: ambient 81 Heading  S.E
254 2   8.244 1  5.87 10.61  8.30  6.50  4.67  3.41  2.04  1.07  90.1
254 2   8.244 1  8.45 15.61 12.19  9.45  6.84  5.05  3.03  1.53  90.1
254 2   8.244 1 11.49 20.53 16.12 12.41  9.05  6.76  4.06  2.05  90.1

Note: ambient 83 Heading  S.E
255 2   8.121 1  5.97 11.45  8.54  6.57  4.59  3.41  2.30  1.61  88.3
255 2   8.121 1  8.71 16.35 12.27  9.36  6.57  4.89  3.29  2.36  88.3
255 2   8.121 1 11.46 21.50 16.24 12.36  8.71  6.72  4.38  3.08  88.3

Note: ambient 83 Heading  S.E
256 2   8.070 1  6.03  7.73  6.38  5.35  4.19  3.27  2.00  0.94  87.9
256 2   8.070 1  8.87 11.44  9.48  7.95  6.24  4.88  2.98  1.37  87.9
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256 2   8.070 1 11.50 14.83 12.27 10.32  8.12  6.48  4.01  1.91  87.9

Note: ambient 83 Heading  E Drop @ Entrance Of Tunnel
257 2   7.617 1  5.91 12.90 10.40  8.36  6.26  4.73  2.95  1.57  87.2
257 2   7.617 1  8.54 18.77 15.25 12.26  9.16  6.91  4.28  2.19  87.2
257 2   7.617 1 11.35 24.75 20.12 16.20 12.21  9.34  5.74  2.89  87.2

Note: ambient 83 Heading  E from 8.70 to 7.617 did not test under tunnel
258 2   7.454 1  5.70 15.16 11.61  9.16  6.25  4.20  2.01  0.96  89.7
258 2   7.454 1  8.16 22.67 17.49 13.80  9.40  6.30  2.87  1.33  89.7
258 2   7.454 1 11.14 30.89 23.96 18.97 13.07  9.00  4.06  1.64  89.7

Note: ambient 83 Heading  E
259 2   7.449 1  5.72 12.30  9.38  7.38  5.16  3.73  2.15  1.11  87.5
259 2   7.449 1  8.59 17.98 13.73 10.76  7.59  5.51  3.07  1.55  87.5
259 2   7.449 1 11.49 23.53 18.01 14.14 10.09  7.44  4.25  2.05  87.5

Note: ambient 81 Heading  E
260 2   7.349 1  5.91 12.82  9.66  7.57  5.41  3.87  2.22  1.09  89.7
260 2   7.349 1  8.32 18.86 14.23 11.11  8.00  5.74  3.21  1.53  89.7
260 2   7.349 1 11.24 25.07 19.03 14.83 10.78  7.81  4.39  2.03  89.7

Note: ambient 80 Heading  E.
261 2   7.201 1  5.94 12.04  8.69  6.24  3.98  2.75  1.70  1.02 101.4
261 2   7.201 1  8.51 17.31 12.94  9.40  6.01  4.19  2.49  1.45 101.4
261 2   7.201 1 11.19 22.40 17.17 12.51  8.07  5.69  3.28  1.89 101.4

Note: ambient 78 Heading N.E.
262 2   7.149 1  5.91  9.16  7.45  5.98  4.44  3.31  2.12  1.25  93.8
262 2   7.149 1  8.75 13.41 10.67  8.50  6.35  4.80  2.89  1.60  93.8
262 2   7.149 1 11.62 17.83 14.09 11.28  8.54  6.52  3.98  2.25  93.8

Note: ambient 78 Heading N.E. Aligator cracking on patch
263 2   7.098 1  5.86  9.39  7.07  5.38  3.66  2.54  1.50  0.80  92.7
263 2   7.098 1  8.43 13.69 10.28  7.77  5.32  3.79  2.17  1.11  92.7
263 2   7.098 1 11.22 17.91 13.51 10.17  7.00  5.17  2.87  1.46  92.7

Note: ambient 78 Heading N.E. Aligator cracking
264 2   7.050 1  5.81 11.27  8.87  6.87  5.11  3.94  2.80  1.67  93.8
264 2   7.050 1  8.50 16.65 12.78  9.73  7.26  5.66  3.85  2.25  93.8
264 2   7.050 1 11.40 22.39 17.19 13.06  9.84  7.78  5.26  3.15  93.8

Note: ambient 78 Heading N.E. Aligator cracking
265 2   6.950 1  5.57  8.65  6.62  4.96  3.31  2.41  1.57  0.95  93.8
265 2   6.950 1  8.32 12.73  9.64  7.19  4.87  3.54  2.33  1.36  93.8
265 2   6.950 1 11.18 16.92 12.84  9.53  6.49  4.80  3.16  1.89  93.8

Note: ambient 78 Heading N.E. Aligator cracking
266 2   6.848 1  5.75 10.90  8.19  6.25  4.31  2.96  1.91  1.10  93.4
266 2   6.848 1  8.28 15.96 12.09  9.26  6.41  4.42  2.86  1.60  93.4
266 2   6.848 1 11.35 21.57 16.55 12.70  8.82  6.21  4.02  2.29  93.4

Note: ambient 75 Heading N. Aligator cracking
267 2   6.750 1  5.72 14.50 10.93  8.34  5.76  4.05  2.37  1.18  92.7
267 2   6.750 1  8.43 21.17 15.94 12.21  8.41  5.97  3.41  1.69  92.7
267 2   6.750 1 11.07 28.48 21.34 16.28 11.30  8.12  4.60  2.24  92.7

Note: ambient 75 Heading N. Aligator cracking
268 2   6.650 1  5.55 10.69  8.05  5.77  3.79  2.58  1.57  0.83  97.4
268 2   6.650 1  8.32 15.64 11.04  7.92  5.16  3.57  2.10  1.06  97.4
268 2   6.650 1 11.51 20.11 14.60 10.61  6.97  4.91  2.82  1.45  97.4
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Note: ambient 74 Heading N. Aligator cracking
269 2 6.550 1 5.48 21.91 16.62 12.94 8.76 5.85 2.96 1.51 94.8
269 2 6.550 1 8.04 32.58 25.80 20.07 13.74 9.32 4.41 1.99 94.8
269 2 6.550 1 10.86 40.09 35.05 27.20 18.63 12.75 5.76 2.13 94.8

Note: ambient 74 Heading N. Aligator cracking
270 2 6.524 1 5.37 16.97 13.38 10.17 6.79 4.64 2.63 1.49 93.8
270 2 6.524 1 8.15 25.81 19.30 14.50 9.69 6.61 3.61 1.94 93.8
270 2 6.524 1 10.86 34.40 26.16 19.63 13.19 9.05 4.75 2.48 93.8

Note: ambient 74 Heading N. Aligator cracking Test @ 25 meters
271 2 6.500 1 5.58 16.47 14.00 11.14 8.06 5.79 3.42 1.79 93.8
271 2 6.500 1 8.33 24.55 19.63 15.52 11.26 8.20 4.67 2.28 93.8
271 2 6.500 1 11.02 33.53 26.66 21.01 15.36 11.20 6.39 3.10 93.8

Note: ambient 74 Heading N.E Aligator cracking Test @ 25 meters
272 2 6.466 1 5.43 19.83 14.99 11.34 7.31 4.79 2.46 1.46 98.9
272 2 6.466 1 8.08 28.99 21.96 16.54 10.72 7.02 3.31 1.96 98.9
272 2 6.466 1 10.78 37.28 29.52 22.16 14.38 9.58 4.10 2.44 98.9

Note: ambient 74 Heading N.E Aligator cracking Test @ 25 meters
273 2 6.450 1 5.81 14.91 10.93 8.63 6.01 4.23 2.57 1.42 100.0
273 2 6.450 1 8.17 21.24 16.10 12.78 8.97 6.39 3.83 2.06 100.0
273 2 6.450 1 11.22 28.03 21.42 17.00 12.05 8.78 5.16 2.76 100.0

Note: ambient 74 Heading N.E Aligator cracking Test @ 25 meters
274 2 6.400 1 5.65 15.27 11.66 9.10 6.52 4.71 2.74 1.38 98.1
274 2 6.400 1 8.20 21.97 16.87 13.15 9.57 7.06 4.14 2.05 98.1
274 2 6.400 1 11.02 28.99 22.24 17.28 12.63 9.54 5.49 2.48 98.1

Note: ambient 75 Heading N.E major Aligator cracking Test @ 50 meters
275 2 6.350 1 5.60 11.32 8.69 6.85 4.96 3.57 2.12 1.13 95.9
275 2 6.350 1 8.45 16.37 12.70 9.97 7.27 5.34 3.21 1.51 95.9
275 2 6.350 1 11.16 21.70 16.76 13.11 9.67 7.21 4.20 2.10 95.9

Note: ambient 75 Heading N.E major Aligator cracking Test @ 50 meters
276 2 6.250 1 5.81 12.78 9.53 7.42 5.24 3.71 2.17 1.17 95.6
276 2 6.250 1 8.42 18.47 14.12 10.90 7.76 5.55 3.16 1.63 95.6
276 2 6.250 1 11.31 24.80 18.98 14.67 10.51 7.62 4.27 2.14 95.6

Note: ambient 75 Heading N.E major Aligator cracking
277 2 6.149 1 5.30 16.71 12.72 10.02 7.13 4.79 2.56 1.38 98.1
277 2 6.149 1 7.93 25.15 19.26 15.23 10.81 7.28 3.86 1.96 98.1
277 2 6.149 1 10.60 33.75 26.55 20.81 14.87 10.13 5.21 2.45 98.1

Note: ambient 75 Heading N. major Aligator cracking
278 2 6.100 1 5.92 10.86 7.86 6.10 4.35 3.18 1.93 0.97 94.1
278 2 6.100 1 8.22 15.93 11.65 9.02 6.43 4.70 2.77 1.41 94.1
278 2 6.100 1 11.04 21.30 16.02 12.27 8.72 6.51 3.86 1.91 94.1

Note: ambient 75 Heading N. major Aligator cracking Test @ 50 meters
279 2 6.050 1 5.76 9.82 7.00 5.44 3.88 2.79 1.64 0.87 98.1
279 2 6.050 1 8.50 14.22 10.54 8.13 5.83 4.21 2.39 1.25 98.1
279 2 6.050 1 11.33 18.51 13.90 10.70 7.67 5.60 3.26 1.60 98.1

Note: ambient 75 Heading N. major Aligator cracking
280 2 5.950 1 6.02 10.15 7.45 5.93 4.13 2.93 1.69 0.93 100.7
280 2 5.950 1 8.77 14.74 11.04 8.74 6.13 4.39 2.43 1.26 100.7
280 2 5.950 1 11.67 19.49 14.89 11.82 8.34 5.97 3.31 1.66 100.7

Note: ambient 76 Heading N. major Aligator cracking

281 2	5.816 1	6.02	9.34	6.65	4.81	3.03	2.05	1.24	0.71	98.9
281 2	5.816 1	8.70	13.94	10.08	7.34	4.70	3.21	1.86	1.05	98.9
281 2	5.816 1	11.61	18.61	13.84	10.13	6.54	4.50	2.55	1.40	98.9

Note: ambient 77 Heading N. major Aligator cracking

282 2	5.750 1	5.82	14.56	10.31	7.65	5.09	3.52	1.97	0.87	100.0
282 2	5.750 1	8.35	21.28	15.27	11.28	7.59	5.27	2.85	1.16	100.0
282 2	5.750 1	11.29	27.92	20.36	15.03	10.22	7.19	3.87	1.44	100.0

Note: ambient 78 Heading N.

283 2	5.646 1	6.03	8.07	6.07	4.46	2.80	1.83	1.01	0.44	97.0
283 2	5.646 1	8.67	11.56	8.65	6.34	4.05	2.72	1.48	0.63	97.0
283 2	5.646 1	11.73	14.96	11.14	8.20	5.31	3.65	1.98	0.87	97.0

Note: ambient 79 Heading .E.

284 2	5.544 1	6.24	10.05	8.34	6.90	5.21	3.91	2.46	1.32	91.9
284 2	5.544 1	8.98	14.62	12.30	10.13	7.65	5.77	3.53	1.85	91.9
284 2	5.544 1	11.66	18.86	16.02	13.20	10.02	7.72	4.79	2.45	91.9

Note: ambient 79 Heading N.E

285 2	5.500 1	5.64	15.09	11.46	8.99	6.50	4.86	3.09	1.70	90.8
285 2	5.500 1	8.24	22.06	16.82	13.21	9.61	7.28	4.65	2.44	90.8
285 2	5.500 1	11.12	30.11	22.07	17.39	12.78	9.83	6.18	3.17	90.8

Note: ambient 79 Heading N.E Test @ 50 meters

286 2	5.449 1	5.77	9.27	6.66	4.98	3.31	2.22	1.12	0.55	91.2
286 2	5.449 1	8.34	13.73	9.98	7.38	4.91	3.30	1.63	0.76	91.2
286 2	5.449 1	11.28	18.32	13.43	9.92	6.60	4.54	2.25	0.97	91.2

Note: ambient 80 Heading N.E Test @ 50 meters

287 2	5.350 1	5.21	5.59	4.21	3.32	2.38	1.74	0.99	0.50	59.7
287 2	5.350 1	8.66	9.58	7.29	5.72	4.14	3.03	1.65	0.87	59.7
287 2	5.350 1	11.47	12.71	9.74	7.65	5.56	4.10	2.23	1.21	59.7

Note: ambient 55

288 2	5.350 1	5.24	6.26	4.60	3.62	2.55	1.82	0.96	0.46	60.4
288 2	5.350 1	8.88	10.96	8.12	6.39	4.51	3.23	1.66	0.75	60.4
288 2	5.350 1	11.41	14.18	10.62	8.37	5.93	4.28	2.21	0.97	60.4

Note: ambient 55

289 2	5.241 1	5.21	2.96	2.33	1.92	1.51	1.18	0.76	0.40	61.2
289 2	5.241 1	8.55	5.15	4.12	3.39	2.66	2.11	1.37	0.69	61.2
289 2	5.241 1	11.23	6.80	5.46	4.54	3.57	2.82	1.84	0.94	61.2

Note: ambient 55 major aligator cracking on 257 & 258

290 2	5.150 1	5.16	6.85	5.80	5.04	4.02	3.15	2.06	1.08	62.3
290 2	5.150 1	8.59	11.34	9.62	8.34	6.65	5.31	3.50	1.75	62.3
290 2	5.150 1	11.22	14.88	12.71	10.97	8.77	7.01	4.63	2.21	62.3

Note: ambient 56 overlay pavement

291 2	5.049 1	5.30	7.66	6.43	5.45	4.19	3.19	1.96	0.99	62.6
291 2	5.049 1	8.50	13.20	11.06	9.33	7.19	5.48	3.35	1.47	62.6
291 2	5.049 1	11.27	17.53	14.69	12.37	9.54	7.32	4.43	1.88	62.6

Note: ambient 56 heading N. overlay pavement

292 2	4.950 1	5.44	7.84	6.16	4.99	3.69	2.77	1.75	0.96	64.1
292 2	4.950 1	8.59	13.26	10.47	8.44	6.25	4.69	2.90	1.45	64.1
292 2	4.950 1	11.34	17.88	14.20	11.48	8.57	6.47	4.02	2.01	64.1

Note: ambient 58 heading N. overlay pavement

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293 2   4.850 1  5.22  5.49  4.54  3.96  3.22  2.59  1.75  0.91  64.5
293 2   4.850 1  8.49  8.60  7.12  6.16  5.02  4.04  2.69  1.27  64.5
293 2   4.850 1 11.39 11.24  9.24  7.98  6.56  5.35  3.66  1.83  64.5

Note: ambient 58  heading N. overlay pavement
294 2   4.749 1  5.00  8.80  7.01  5.81  4.42  3.38  2.09  1.07  63.4
294 2   4.749 1  8.20 14.79 11.78  9.71  7.36  5.63  3.45  1.62  63.4
294 2   4.749 1 10.85 19.42 15.56 12.86  9.83  7.56  4.64  2.25  63.4

Note: ambient 59  heading N. overlay pavement
295 2   4.649 1  5.10  6.27  5.03  4.14  3.04  2.26  1.44  0.88  64.8
295 2   4.649 1  8.22 10.19  8.21  6.72  4.93  3.68  2.27  1.26  64.8
295 2   4.649 1 11.02 13.59 10.97  8.99  6.65  5.00  3.10  1.72  64.8

Note: ambient 59  heading N. overlay pavement
296 2   4.550 1  6.05 15.23 11.10  8.87  6.56  4.93  2.98  1.54  64.5
296 2   4.550 1  8.72 22.31 16.55 13.16  9.72  7.39  4.32  2.16  64.5
296 2   4.550 1 11.63 29.17 21.99 17.65 13.14 10.13  5.85  2.79  64.

Note: ambient 60  heading N. overlay pavement
297 2   4.482 1  6.53  6.19  5.52  5.20  4.68  4.20  3.57  2.64  64.5
297 2   4.482 1  9.32 10.70  9.86  9.33  8.53  7.82  7.07  5.59  64.5
297 2   4.482 1 12.33 13.81 12.94 12.00 11.04 10.24  8.91  7.02  64.5

Note: ambient 60  heading N. overlay pavement sawdust fill
298 2   4.470 1  6.51  6.03  5.52  5.20  4.70  4.20  3.60  2.76  64.8
298 2   4.470 1  9.28 10.07  9.39  8.88  8.17  7.55  6.77  5.42  64.8
298 2   4.470 1 12.19 13.23 12.54 11.69 10.80 10.10  8.94  7.18  64.8

Note: ambient 61  heading N. overlay pavement sawdust fill
299 2   4.460 1  6.34  5.40  4.52  4.17  3.67  3.21  2.66  2.00  64.8
299 2   4.460 1  9.11  8.98  7.94  7.41  6.65  6.00  5.33  4.31  64.8
299 2   4.460 1 12.17 11.78 10.69  9.81  8.84  8.11  7.02  5.61  64.8

Note: ambient 61  heading N. overlay pavement sawdust fill
300 2   4.450 1  5.72  4.41  3.78  3.47  3.06  2.66  2.24  1.82  65.9
300 2   4.450 1  8.44  7.24  6.40  5.95  5.35  4.85  4.30  3.49  65.9
300 2   4.450 1 11.31 10.48  9.56  8.85  8.06  7.39  6.65  5.41  65.9

Note: ambient 61  heading N. overlay pavement sawdust fill
301 2   4.439 1  6.21  7.50  7.10  6.60  5.93  5.27  4.41  3.24  66.3
301 2   4.439 1  9.00 11.97 11.36 10.56  9.61  8.71  7.55  5.86  66.3
301 2   4.439 1 11.86 16.06 15.45 14.17 12.93 11.91 10.26  8.09  66.3

Note: ambient 61  heading N. overlay pavement sawdust fill
302 2   4.427 1  6.29  8.09  7.46  7.09  6.43  5.78  4.86  3.49  66.3
302 2   4.427 1  8.94 12.81 12.07 11.42 10.42  9.39  8.20  6.13  66.3
302 2   4.427 1 11.78 17.85 17.12 16.08 14.86 13.70 11.98  9.35  66.3

Note: ambient 61  heading N. overlay pavement sawdust fill
303 2   4.419 1  6.03  6.01  5.21  4.91  4.42  3.96  3.38  2.55  66.3
303 2   4.419 1  8.99  9.34  8.25  7.80  7.04  6.35  5.58  4.35  66.3
303 2   4.419 1 11.72 13.51 12.19 11.41 10.50  9.65  8.52  6.88  66.3

Note: ambient 61  heading N. overlay pavement sawdust fill
304 2   4.409 1  6.10  6.11  5.63  5.35  4.86  4.42  3.80  2.86  66.3
304 2   4.409 1  9.08  9.96  9.33  8.81  8.09  7.40  6.61  5.12  66.3
304 2   4.409 1 11.77 13.78 13.14 12.32 11.41 10.65  9.45  7.68  66.3

Note: ambient 61  heading N. overlay pavement sawdust fill
305 2   4.400 1  5.81 13.63 12.73 12.08 10.99  9.76  8.21  5.47  65.9
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305 2   4.400 1  8.68 20.72 19.53 18.34 16.70 14.90 12.69  8.59  65.9
305 2   4.400 1 11.71 28.28 27.20 25.23 23.20 21.02 17.77 12.43  65.9

Note: ambient 61  heading N. overlay pavement sawdust fill
306 2   4.380 1  6.02  8.16  7.42  7.00  6.30  5.65  4.92  3.74  67.4
306 2   4.380 1  8.93 13.21 12.27 11.60 10.57  9.63  8.62  6.73  67.4
306 2   4.380 1 11.79 18.10 17.14 15.98 14.70 13.63 11.90  9.39  67.4

Note: ambient 61  heading N. overlay pavement sawdust fill
307 2   4.380 1  6.15  7.36  6.70  6.35  5.77  5.21  4.43  3.31  67.0
307 2   4.380 1  9.03 12.13 11.28 10.69  9.81  9.01  8.00  6.25  67.0
307 2   4.380 1 11.89 16.35 15.53 14.50 13.41 12.46 10.85  8.49  67.0

Note: ambient 61  heading N. overlay pavement sawdust fill
308 2   4.370 1  6.18  6.73  5.98  5.66  5.13  4.65  4.08  3.20  66.3
308 2   4.370 1  9.03 11.49 10.58 10.02  9.25  8.62  7.97  6.72  66.3
308 2   4.370 1 11.77 14.76 13.74 12.75 11.72 10.96  9.55  7.55  66.3

Note: ambient 61  heading N. overlay pavement sawdust fill
309 2   4.360 1  6.13  6.07  4.81  4.11  3.15  2.29  1.31  0.68  65.2
309 2   4.360 1  8.95  9.20  7.35  6.24  4.78  3.46  1.94  0.95  65.2
309 2   4.360 1 11.86 12.19  9.74  8.27  6.33  4.59  2.55  1.22  65.2

Note: ambient 61  heading N. overlay pavement sawdust fill
310 2   4.350 1  5.99  5.31  4.01  3.22  2.48  1.93  1.23  0.56  65.9
310 2   4.350 1  8.76  8.41  6.39  5.08  3.91  3.02  1.88  0.82  65.9
310 2   4.350 1 11.84 11.52  8.85  7.02  5.43  4.23  2.60  1.08  65.9

Note: ambient 61  heading N. overlay pavement end of sawdustfill
311 2   4.249 1  6.12  7.03  5.37  4.20  3.03  2.26  1.40  0.71  66.7
311 2   4.249 1  8.70 10.92  8.40  6.59  4.71  3.51  2.13  1.01  66.7
311 2   4.249 1 11.28 14.92 11.47  9.01  6.49  4.84  2.89  1.40  66.7

Note: ambient 61  heading N.E. aligator cracking
312 2   4.149 1  5.85  7.13  6.36  5.69  4.80  3.97  2.79  1.49  65.2
312 2   4.149 1  8.43 10.81  9.64  8.58  7.18  5.93  4.08  2.02  65.2
312 2   4.149 1 11.36 14.68 13.12 11.70  9.88  8.20  5.65  2.82  65.2

Note: ambient 61  heading N.E. aligator cracking
313 2   4.049 1  5.50 14.34 11.89 10.01  7.70  5.89  3.57  1.58  65.9
313 2   4.049 1  8.26 21.40 18.15 15.31 11.90  9.17  5.54  2.20  65.9
313 2   4.049 1 10.82 28.67 24.50 20.69 16.25 12.70  7.61  2.72  65.9

Note: ambient 61  heading N.E. aligator cracking
314 2   3.849 1  5.72  4.50  3.64  3.11  2.47  2.01  1.49  0.97  62.3
314 2   3.849 1  8.50  6.91  5.59  4.74  3.74  3.10  2.19  1.38  62.3
314 2   3.849 1 11.20  9.35  7.65  6.46  5.12  4.23  3.01  1.89  62.3

Note: ambient 612 heading N.E. aligator cracking
315 2   3.849 1  6.05  3.13  2.51  2.14  1.68  1.36  0.93  0.62  62.3
315 2   3.849 1  8.72  4.74  3.85  3.26  2.57  2.07  1.40  0.86  62.3
315 2   3.849 1 11.75  6.29  5.13  4.36  3.42  2.74  1.85  1.15  62.3

Note: ambient 612 heading N.E. aligator cracking
316 2   3.750 1  5.80  7.22  5.77  4.75  3.59  2.77  1.78  0.96  63.4
316 2   3.750 1  8.66 10.89  8.75  7.18  5.47  4.21  2.71  1.43  63.4
316 2   3.750 1 11.44 14.30 11.52  9.45  7.22  5.60  3.58  1.91  63.4

Note: ambient 64 heading N.
317 2   3.649 1  5.69  9.32  7.50  6.21  4.67  3.49  2.08  0.97  63.7
317 2   3.649 1  8.28 13.79 11.17  9.26  7.00  5.27  3.17  1.42  63.7
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317 2 3.649 1 11.04 18.07 14.71 12.18 9.27 7.02 4.27 1.90 63.7

Note: ambient 64 heading N.
318 2 3.549 1 5.48 8.02 6.53 5.29 3.88 2.26 1.38 0.74 64.1
318 2 3.549 1 8.21 12.44 10.09 8.12 5.91 3.40 2.06 1.08 64.1
318 2 3.549 1 11.08 16.53 13.36 10.78 7.96 4.52 2.71 1.40 64.1

Note: ambient 64 heading N.
319 2 3.448 1 5.63 9.90 8.20 6.88 5.12 3.72 1.92 0.55 64.1
319 2 3.448 1 8.33 15.22 12.70 10.61 7.96 5.83 2.94 0.73 64.1
319 2 3.448 1 11.11 20.59 17.24 14.48 10.91 8.16 4.09 1.02 64.1

Note: ambient 64 heading N.
320 2 3.345 1 5.91 6.45 5.42 4.71 3.77 3.00 1.82 0.70 64.8
320 2 3.345 1 8.54 9.85 8.35 7.22 5.81 4.60 2.87 0.99 64.8
320 2 3.345 1 11.45 13.17 11.23 9.70 7.85 6.27 3.93 1.32 64.8

Note: ambient 65 heading N.W
321 2 3.249 1 5.38 13.72 10.55 8.37 6.00 4.29 2.43 1.02 64.8
321 2 3.249 1 7.96 21.61 16.73 13.30 9.59 6.96 3.94 1.58 64.8
321 2 3.249 1 10.80 28.30 22.18 17.75 13.00 9.60 5.45 2.18 64.8

Note: ambient 65 heading N.W
322 2 3.150 1 5.88 12.62 11.23 10.01 8.30 6.67 4.32 2.04 66.7
322 2 3.150 1 8.49 18.96 17.03 15.14 12.60 10.21 6.78 3.08 66.7
322 2 3.150 1 11.35 24.95 22.52 19.88 16.56 13.48 8.84 3.75 66.7

Note: ambient 65 heading N.W
323 2 3.050 1 6.03 11.00 8.54 6.79 4.71 3.27 1.87 1.00 64.8
323 2 3.050 1 8.64 15.26 11.91 9.42 6.53 4.58 2.49 1.28 64.8
323 2 3.050 1 11.29 19.22 15.17 12.03 8.41 6.01 3.31 1.65 64.8

Note: ambient 65 heading N.W
324 2 2.950 1 5.97 11.98 9.54 7.99 5.98 4.37 2.40 0.98 62.3
324 2 2.950 1 8.70 17.79 14.38 11.98 8.96 6.60 3.61 1.36 62.3
324 2 2.950 1 11.20 23.65 19.12 15.89 11.95 8.92 4.89 1.76 62.3

Note: ambient 65 heading N.W
325 2 2.850 1 5.64 15.39 12.59 9.57 5.66 3.87 2.25 1.12 61.5
325 2 2.850 1 8.29 22.55 18.46 14.06 8.50 5.88 3.33 1.66 61.5
325 2 2.850 1 10.82 29.36 24.27 18.39 11.32 7.98 4.54 2.17 61.5

Note: ambient 65 heading N.W
326 2 2.749 1 5.77 11.61 9.36 7.20 5.09 3.73 2.27 1.24 64.1
326 2 2.749 1 8.38 16.65 13.48 10.33 7.39 5.46 3.29 1.69 64.1
326 2 2.749 1 11.28 21.43 17.53 13.46 9.75 7.29 4.38 2.19 64.1

Note: ambient 65 heading N.W
327 2 2.649 1 5.28 16.68 14.40 12.25 9.41 7.06 4.19 2.13 64.5
327 2 2.649 1 7.90 25.11 21.64 18.23 13.90 10.34 5.87 2.36 64.5
327 2 2.649 1 10.67 34.30 29.48 24.87 19.18 14.50 8.51 3.19 64.5

Note: ambient 68 heading N.E
328 2 2.624 1 5.86 7.59 6.47 5.31 4.12 3.23 2.18 1.22 64.5
328 2 2.624 1 8.46 10.83 9.20 7.52 5.87 4.63 3.05 1.60 64.5
328 2 2.624 1 11.41 13.97 11.75 9.59 7.47 5.91 3.98 1.95 64.5

Note: ambient 68 heading N.E Test @ 25 meters
329 2 2.550 1 5.90 4.37 3.02 2 31 1.69 1.24 0.75 0.41 64.1
329 2 2.550 1 8.64 6.60 4.55 3.46 2.55 1.88 1.12 0.55 64.1
329 2 2.550 1 11.45 8.61 6.02 4.6 3.43 2.57 1.51 0.75 64.1

Note: ambient 69 heading N.E

330	2	2.449	1	5.75	11.14	9.34	7.88	6.15	4.79	3.39	1.95	64.8
330	2	2.449	1	8.54	16.59	14.08	11.82	9.32	7.37	5.11	2.79	64.8
330	2	2.449	1	11.09	21.46	18.35	15.44	12.20	9.72	6.68	3.52	64.8

Note: ambient 70 heading W.

331	2	2.423	1	5.49	13.83	10.78	8.78	6.31	4.44	2.30	0.88	63.7
331	2	2.423	1	8.28	21.96	17.24	14.07	10.17	7.19	3.62	1.20	63.7
331	2	2.423	1	10.68	30.08	23.91	19.40	14.15	10.09	5.08	1.49	63.7

Note: ambient 70 heading W. Test @ 25 meters

332	2	2.348	1	6.01	4.63	3.51	2.82	2.03	1.47	0.95	0.60	64.5
332	2	2.348	1	8.56	7.09	5.48	4.37	3.15	2.33	1.44	0.85	64.5
332	2	2.348	1	11.49	9.17	7.16	5.67	4.12	3.03	1.83	1.05	64.5

Note: ambient 70 heading N.W. on patch

333	2	2.249	1	5.75	7.51	5.88	4.90	3.79	2.95	1.95	0.91	65.2
333	2	2.249	1	8.42	11.52	9.11	7.62	5.89	4.61	3.07	1.39	65.2
333	2	2.249	1	11.20	15.43	12.40	10.38	8.01	6.30	4.11	1.87	65.2

Note: ambient 71 heading N.

334	2	2.149	1	5.82	8.26	7.29	6.55	5.48	4.45	2.90	1.38	65.6
334	2	2.149	1	8.53	12.23	10.82	9.64	8.07	6.58	4.26	1.87	65.6
334	2	2.149	1	11.35	16.21	14.34	12.74	10.71	8.79	5.71	2.50	65.6

Note: ambient 69 heading N.E

335	2	2.050	1	5.63	10.94	8.65	6.95	5.01	3.57	2.04	1.15	66.7
335	2	2.050	1	8.23	16.91	13.44	10.78	7.83	5.69	3.24	1.78	66.7
335	2	2.050	1	10.87	22.12	17.63	13.97	10.15	7.37	4.22	1.95	66.7

Note: ambient 69 heading N.E

336	2	1.950	1	5.65	11.40	8.66	6.92	4.81	3.32	1.78	0.87	65.2
336	2	1.950	1	8.55	17.11	13.10	10.46	7.34	5.08	2.72	1.37	65.2
336	2	1.950	1	11.14	22.45	17.57	14.06	9.98	6.96	3.68	1.82	65.2

Note: ambient 69 heading N.E

337	2	1.850	1	5.58	15.35	12.33	10.21	7.73	5.92	3.79	2.03	62.3
337	2	1.850	1	8.12	23.05	18.73	15.37	11.63	8.87	5.58	2.73	62.3
337	2	1.850	1	10.69	30.77	25.11	20.56	15.65	12.02	7.59	3.62	62.3

Note: ambient 69 heading N.E

338	2	1.824	1	5.64	14.22	10.64	8.43	5.87	3.93	1.93	0.93	65.2
338	2	1.824	1	8.39	21.97	16.62	13.15	9.15	6.19	2.94	1.34	65.2
338	2	1.824	1	10.92	29.54	22.64	17.94	12.57	8.61	3.98	1.73	65.2

Note: ambient 69 heading N.E test @ 25 feet

339	2	1.750	1	6.03	5.69	4.45	3.73	2.95	2.29	1.55	0.81	63.4
339	2	1.750	1	8.48	8.48	6.81	5.70	4.46	3.52	2.36	1.15	63.4
339	2	1.750	1	11.36	11.33	9.18	7.65	6.01	4.73	3.12	1.55	63.4

Note: ambient 69 heading N.E

340	2	1.650	1	5.12	21.66	17.32	14.14	9.92	6.82	3.39	1.58	65.2
340	2	1.650	1	7.84	33.60	26.92	22.10	15.44	10.70	5.17	2.21	65.2
340	2	1.650	1	10.29	44.88	36.29	29.61	21.00	14.65	6.84	2.25	65.2

Note: ambient 69 heading N.E

341	2	1.623	1	5.65	11.41	8.69	6.95	4.89	3.43	1.85	0.86	66.7
341	2	1.623	1	8.45	17.45	13.43	10.69	7.57	5.32	2.82	1.25	66.7
341	2	1.623	1	10.90	22.93	17.76	14.11	10.03	7.08	3.68	1.48	66.7

Note: ambient 69 heading N.E test @ 25 feet

342	2	1.550	1	5.41	14.09	10.47	8.10	5.33	3.47	1.79	0.90	64.5
342	2	1.550	1	8.11	21.86	16.38	12.62	8.35	5.53	2.66	1.31	64.5
342	2	1.550	1	10.80	28.58	22.10	16.99	11.31	7.55	3.52	1.70	64.5

Note: ambient 69 heading N.E test @ 25 feet

343	2	1.550	1	5.31	14.19	10.69	8.23	5.47	3.57	1.75	0.92	65.2
343	2	1.550	1	8.00	21.71	16.57	12.78	8.56	5.65	2.68	1.33	65.2
343	2	1.550	1	10.71	27.97	22.27	17.10	11.45	7.63	3.57	1.67	65.2

Note: ambient 69 heading N.E

344	2	1.450	1	5.17	13.03	9.38	6.86	4.24	2.52	0.99	0.50	67.0
344	2	1.450	1	7.91	19.91	14.50	10.63	6.65	4.00	1.45	0.70	67.0
344	2	1.450	1	10.65	25.77	19.39	14.22	9.01	5.67	1.91	0.93	67.0

Note: ambient 69 heading N.E

345	2	1.349	1	5.61	10.79	8.30	6.34	4.14	2.90	1.92	1.24	67.7
345	2	1.349	1	8.23	16.30	12.63	9.59	6.29	4.42	2.79	1.82	67.7
345	2	1.349	1	10.91	21.99	17.19	12.99	8.59	6.15	3.75	2.52	67.7

Note: ambient 73 heading N.E

346	2	1.249	1	5.75	12.28	9.58	7.62	5.52	4.02	2.29	0.93	68.5
346	2	1.249	1	8.43	18.54	14.58	11.61	8.46	6.22	3.48	1.40	68.5
346	2	1.249	1	11.06	24.25	19.26	15.36	11.25	8.35	4.61	1.69	68.5

Note: ambient 73 heading N.E

347	2	1.186	1	5.37	19.68	15.07	11.84	7.86	5.28	2.92	1.52	65.6
347	2	1.186	1	7.88	31.05	23.93	18.81	12.54	8.50	4.55	2.21	65.6
347	2	1.186	1	10.32	37.54	33.23	26.15	17.60	11.99	6.24	2.70	65.6

Note: ambient 73 heading N.E

348	2	1.124	1	5.58	18.95	15.59	12.82	9.57	7.17	4.40	2.26	70.3
348	2	1.124	1	8.11	29.15	24.14	19.81	14.82	11.15	6.66	3.11	70.3
348	2	1.124	1	10.63	39.75	33.11	27.03	20.19	15.28	8.90	3.67	70.3

Note: ambient 73 heading N.E After Entrance gate

349	2	1.099	1	5.69	10.89	8.62	6.88	4.20	3.11	1.91	0.99	71.4
349	2	1.099	1	8.32	16.57	13.20	10.51	6.46	4.80	2.91	1.42	71.4
349	2	1.099	1	11.17	22.25	17.71	14.14	8.82	6.61	4.00	1.90	71.4

Note: ambient 73 heading N.E test @ 25 meters

350	2	1.049	1	5.55	8.18	6.66	4.81	3.19	2.03	0.93	0.56	72.1
350	2	1.049	1	8.35	12.05	9.82	7.19	4.76	3.08	1.37	0.85	72.1
350	2	1.049	1	11.04	15.50	12.69	9.35	6.17	4.06	1.76	1.11	72.1

Note: ambient 73 heading East

351	2	0.951	1	5.49	12.40	9.19	7.04	4.69	3.15	1.78	0.99	72.9
351	2	0.951	1	8.31	19.21	14.34	10.98	7.36	4.97	2.69	1.46	72.9
351	2	0.951	1	10.91	25.64	19.41	14.85	10.01	6.87	3.59	1.83	72.9

Note: ambient 73 heading East

352	2	0.848	1	5.33	21.17	18.51	14.58	9.34	6.38	3.24	1.60	68.5
352	2	0.848	1	7.67	33.23	28.88	22.81	14.89	10.19	5.11	2.39	68.5
352	2	0.848	1	10.19	44.79	38.54	30.35	20.23	13.90	6.79	2.97	68.5

Note: ambient 73 heading East

353	2	0.824	1	5.55	10.84	8.34	6.57	4.29	2.78	1.46	0.92	63.4
353	2	0.824	1	8.35	17.24	13.40	10.51	6.94	4.52	2.27	1.43	63.4
353	2	0.824	1	11.06	23.13	18.13	14.30	9.48	6.23	3.00	1.86	63.4

Note: ambient 73 heading East test @ 25 meters

354	2	0.733	1	5.46	12.82	9.84	7.58	5.03	3.64	2.18	1.27	68.8
354	2	0.733	1	8.12	19.73	15.20	11.72	7.86	5.69	3.25	1.89	68.8
354	2	0.733	1	10.74	26.73	20.77	16.05	10.92	7.91	4.44	2.50	68.8

Note: ambient 73 heading North East

355	2	0.650	1	5.58	11.99	9.15	7.13	4.91	3.42	2.06	1.24	72.1
355	2	0.650	1	8.18	18.70	14.38	11.17	7.73	5.38	3.09	1.82	72.1
355	2	0.650	1	11.01	24.99	19.47	15.12	10.53	7.37	4.13	2.39	72.1

Note: ambient 73 heading North East aligator cracking

356	2	0.605	1	5.42	13.44	10.35	8.04	5.44	3.71	2.02	0.97	69.2
356	2	0.605	1	8.18	21.94	16.94	13.07	8.81	6.01	3.21	1.47	69.2
356	2	0.605	1	10.62	29.81	23.19	17.90	12.10	8.25	4.28	1.84	69.2

Note: ambient 73 heading North East aligator cracking test @ 25 meters

357	2	0.503	1	5.43	11.08	8.78	7.01	5.04	3.66	2.09	1.02	69.6
357	2	0.503	1	8.26	17.72	13.98	11.18	8.02	5.82	3.20	1.49	69.6
357	2	0.503	1	10.86	23.86	18.91	15.12	10.96	7.97	4.38	1.98	69.6

Note: ambient 73 heading North East aligator cracking

358	2	0.450	1	5.39	8.79	6.47	5.13	3.80	2.90	1.75	0.95	62.6
358	2	0.450	1	8.43	13.59	10.09	7.98	5.93	4.55	2.69	1.38	62.6
358	2	0.450	1	10.96	17.54	13.27	10.52	7.97	6.19	3.67	1.87	62.6

Note: ambient 73 heading North East aligator cracking

359	2	0.349	1	5.69	8.78	6.59	5.05	3.34	2.19	1.19	0.68	65.9
359	2	0.349	1	8.33	13.62	10.30	7.90	5.27	3.46	1.86	1.01	65.9
359	2	0.349	1	11.09	18.46	14.02	10.79	7.27	4.86	2.56	1.37	65.9

Note: ambient 73 heading North East aligator cracking

360	2	0.250	1	5.36	9.42	7.34	5.83	3.97	2.63	1.19	0.62	70.3
360	2	0.250	1	8.21	14.40	11.31	8.95	6.12	4.10	1.91	0.93	70.3
360	2	0.250	1	10.89	18.73	14.61	11.53	7.95	5.44	2.47	1.22	70.3

Note: ambient 73 heading North East aligator cracking test @ 25 meters

361	2	0.187	1	5.57	11.56	8.55	6.82	4.91	3.52	2.02	1.04	72.1
361	2	0.187	1	8.18	17.47	13.04	10.35	7.49	5.41	3.09	1.54	72.1
361	2	0.187	1	10.92	22.35	16.90	13.40	9.73	7.05	4.07	1.92	72.1

APPENDIX G

Foamed Asphalt Mix Design – Earth Engineering Consultants, Inc.

January 9, 2007
Revised January 12, 2007 (Add Station Nos.)

EARTH ENGINEERING
CONSULTANTS, INC.

FHWA-CFLHD
12300 West Dakota Avenue
Lakewood, Colorado 80228

Attn: Mr. Steve Deppmeier

Re: Foamed Bitumen Mix Designs
Mesa Verde National Park Entrance Road
CO PRA MEVE 10(8)
Near Cortez, Colorado
EEC Project Number: 1064196

Mr. Deppmeier:

Earth Engineering Consultants, Inc. (EEC) personnel have completed the testing on two (2) foamed bitumen mixes you requested for the above referenced project. That testing was completed under task order DTFH 68-07-D-00001/07-T-001 under contract DTFH 68-07-D-00001. Results of the completed laboratory testing are included with this report.

Material Sources

The Recycled Asphalt Product (RAP) and reclaimed aggregate material were provided to our laboratory by FHWA. The delivered samples were identified as TP-1 from STA 317 + 00 and TP-2 from STA 788 + 00.

Asphalt cement used in the test mixes was AC-10 obtained from the Frontier Oil Refinery in Cheyenne, Wyoming. In telephone conversations with local suppliers, we understand the AC-10 asphalt cement would most likely be supplied by Frontier. The local source would most likely be Snowflake.

Portland cement used in a portion of the mixes was Type I/II from Aggregate Industries. The Class C fly ash used in a portion of the mixes was obtained from the Pawnee Power Plant in Brush. The Class C fly ash from the Comanche Power Plant in Pueblo has characteristics very similar to the Pawnee fly ash.

4396 GREENFIELD DRIVE
WINDSOR, COLORADO 80550
(970) 224-1522 FAX (970) 663-0282

Foaming Characteristics

Foaming characteristics of the Frontier AC-10 graded asphalt were verified in the laboratory and compared with previous evaluations of the same product. Foaming characteristics are determined by adjusting the percent of water utilized to produce the foaming reaction and recording the foam expansion ratio and half-life. The expansion ratio indicates how many times the asphalt foam expands from its original volume. The half-life is the amount of time it takes for the foam to reach 50% of its maximum expanded volume. Results of foam characteristics testing are outlined on the attached summary. The optimum percent injection water occurs when the maximum amount of foam is produced and maintained in the foam state for the greatest amount of time. Maximizing foaming will aid in dispersing the bitumen throughout the recycled materials. Maximizing half-life will allow for the dispersion process to occur for the greatest amount of time.

In general, the higher the asphalt temperature, the more energy is available to produce asphaltic cement foam. However, based on past experience, essential volatile components are burned off more quickly at higher asphalt temperatures and higher asphalt temperatures are difficult to maintain in the field. A minimum expansion ratio of 15 and half-life of 12 is preferred for use in the mix design. It has been our experience, and recommended by A.A. Louden and Partners, that sufficient foaming characteristics are developed with laboratory values as low as an expansion ratio of 9 and half-life of 6 seconds.

Based on the results of laboratory testing, we recommend 4.0% injection water be added to induce foaming and a minimum asphalt temperature of 160°C be maintained in the field. Those values resulted in the highest expansion ratio and greatest half-life from the foamed asphalt. For the provided mix designs, a minimum asphalt temperature of 160°C and 4.0% injection water was utilized.

Sample Preparation

Samples of the RAP and aggregate base from two (2) test pits in the proposed reconstruction area were provided to our laboratory for use in the preliminary mix designs. The RAP was softened by heating and broken down to represent recycling of the material in the field. Gradation analysis was completed on each component of the in-place roadway pavement section. A gradation of the combined blend was calculated based on the individual gradations, requested proportioning of the RAP and base and assumed in-situ densities. In addition, Atterberg limits and modified Proctor tests were completed on each aggregate blend. Atterberg limits tests indicated the proportioned materials were non-plastic. Results of the outlined testing are provided on the attached summary sheets.

The RAP and aggregate base were blended in proportion to the requested proportions and assumed in-situ densities as outlined below in Table I. The area of TP-1 was identified as 6-inches of pavement and 2-inches of aggregate base with a requested blending proportion of 6:1 (RAP:Base). The area of TP-2 was identified as including 6.75-inches of pavement over 3.25-inches of base with a requested blend proportion of 4:3.

TABLE I – PROPORTIONING SUMMARY

Test Pit–TP-1 - 6:1 (RAP:BASE)		
	Assumed Density	**MASS Percentage**
RAP	140 pcf	86.6%
BASE	130 pcf	13.4%
Test Pit–TP-2 – 4:3 (RAP:BASE)		
	Assumed Density	**MASS Percentage**
RAP	140 pcf	59.0%
BASE	130 pcf	41.0%

Test Pits TP-1 and TP-2 were initially evaluated at one (1%) to one and one-half (1½%) Portland cement and 3 to 4½% asphalt cement. Subsequent tests were completed with 3 to 4% asphalt cement and 5% Class C fly ash and 4% asphalt cement with 2% Portland cement. Two (2%) percent compaction moisture was added to the blends prior to treatment with foamed bitumen.

A Wirtgen® WLB 10 foam laboratory was used in the laboratory testing. The treated/blended samples were compacted into 4-inch diameter specimens using 75-blow Marshall compactive effort. The molded specimens were cured at 104°F for 3 days. The cured samples were tested for indirect tensile strength under treated and untreated conditions. Untreated conditions consist of allowing samples to remain at room temperature for 24 hours after curing. Treated conditions consist of soaking the samples in room temperature water for 24 hours after curing.

Results

A summary of the completed indirect tensile strength test results are provided with this report. Graphic representations of the percent blends with soaked and unsoaked strengths for Test Pits 1 and 2 are also included with this report.

The minimum designed wet indirect tensile strength (ITS) for this project is 43.5 psi. The blends, which included either 5% fly ash or 2% Portland cement are the only ones to meet the desire wet ITS although all blends meet the required strength retention of at least 50%.

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

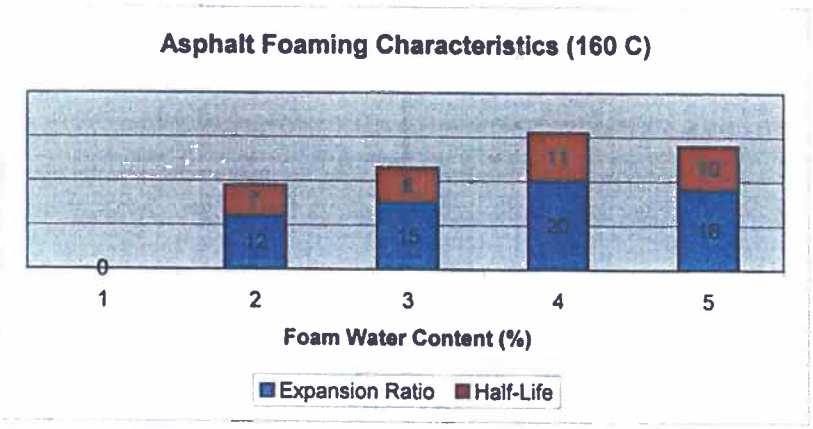
Very truly yours,
Earth Engineering Consultants, Inc.

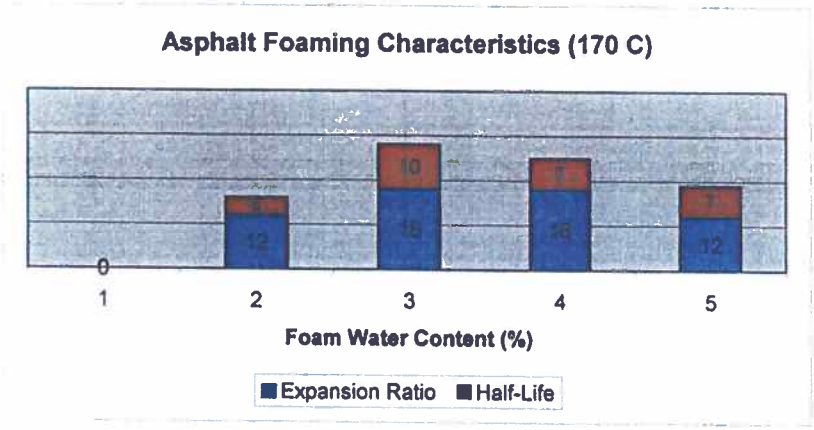
Lester L. Litton, P.E.
Principal Engineer

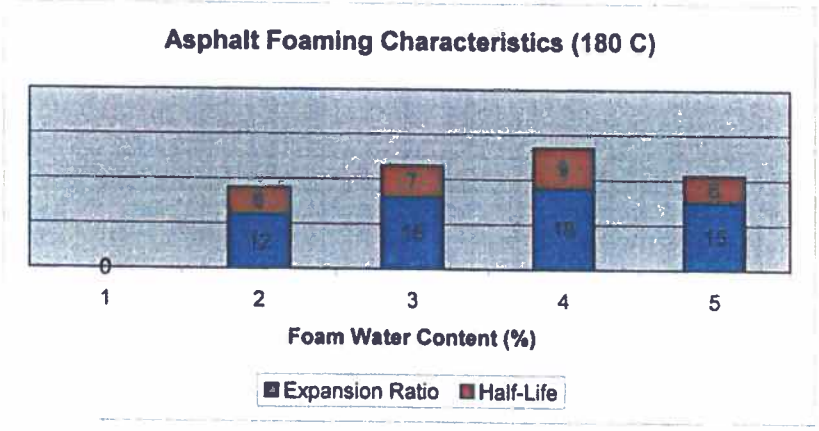
LLL/dla

cc: Bob LaForce – blaforce@yeh1.net

FOAM SUMMARY FRONTIER AC-10







Project: Mesa Verde MEVE 10(8)
Location: near Cortez, Colorado
Project No.: 1064196
Date: December 2006

EEC

EARTH ENGINEERING CONSULTANTS, INC.

SUMMARY OF GRADATION TEST RESULTS

GRADATION OF AGGREGATE (ASTM C-136)	
SIEVE SIZE	PERCENT PASSING
6"	100%
5"	100%
4"	100%
3"	100%
2"	100%
1 1/2"	100%
1"	98%
3/4"	94%
1/2"	82%
3/8"	71%
No. 4	42%
No. 8	25%
No. 16	14%
No. 30	7%
No. 40	5%
No. 50	3%
No. 100	1.3%
No. 200	0.7%

Project: Mesa Verde MEVE 10(8)

Location: near Cortez, Colorado

EEC Project No: 1064196

Date: December 2006

Sample Number: TP-1 RAP

EARTH ENGINEERING CONSULTANTS, INC.

SUMMARY OF GRADATION TEST RESULTS

GRADATION OF AGGREGATE (ASTM C-136)	
SIEVE SIZE	PERCENT PASSING
6"	100%
5"	100%
4"	100%
3"	100%
2"	100%
1 1/2"	100%
1"	100%
3/4"	100%
1/2"	91%
3/8"	81%
No. 4	58%
No. 8	44%
No. 16	34%
No. 30	27%
No. 40	23%
No. 50	19%
No. 100	10.9%
No. 200	7.4%

Project: Mesa Verde MEVE 10(8)

Location: near Cortez, Colorado

EEC Project No: 1064196

Date: December 2006

Sample Number: TP-1 BASE

EARTH ENGINEERING CONSULTANTS, INC.
FOAMING MIX DESIGN - COMPOSITE GRADATION

TABLE I - AGGREGATE GRADATIONS

Sieve Size		Rap 1	Base 2	Composite	Designed Specifications
11/2"	(37.5 mm)	100	100	100	100
1"	(25 mm)	98	100	98	95
3/4"	(19 mm)	94	100	95	
1/2"	(12.5 mm)	82	91	83	
3/8"	(9.5 mm)	71	81	72	
No. 4	(4.75 mm)	42	58	44	
No. 8	(2.36 mm)	25	44	28	
No. 16	(1.18 mm)	14	34	17	
No. 30	(600 µm)	7	27	10	
No. 40	(425 µm)	5	23	7	
No. 50	(300 µm)	3	19	5	
No. 100	(150 µm)	1.3	10.9	3	
No. 200	(75 µm)	0.7	7.4	1.6	5-25
% used		87%	13%	100%	0%

Project: Mesa Verde MEVE 10(8)
Location: near Cortez, Colorado
Project No.: 1064196
Date: January 2007
Mix Design No.: TP 1

EEC

Mesa Verde

Date:December 2006

Sample Location =TP 1

Sample TP1

Set # 1

3.0%A.C. 1% Cement

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.55905	2.262	121.6		469	29.2		Wet
B	4	2.55905	2.262	121.6	120.3	469	29.2	28.0	Wet
C	4	2.63779	2.257	117.7		424	25.6		Wet
D	4	2.63779	2.271	118.4		602	36.3		Dry
E	4	2.55905	2.260	121.5	119.2	603	37.5	36.7	Dry
F	4	2.63779	2.255	117.6		602	36.3		Dry
							Wet/Dry Ratio=		76.18847

Sample TP1

Set # 2

4.0A.C. 1% Cement

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.51968	2.260	123.4		558	35.3		Wet
B	4	2.59842	2.275	120.5	121.5	535	32.8	33.6	Wet
C	4	2.59842	2.277	120.6		536	32.8		Wet
D	4	2.63779	2.249	117.3		692	41.8		Dry
E	4	2.55905	2.262	121.6	120 2	695	43.2	44.1	Dry
F	4	2.55905	2.266	121.8		759	47.2		Dry
							Wet/Dry Ratio=		76.29316

Project: Mesa Verde MEVE 10(8)
Location: near Cortez, Colorado
Project #: 1064196
Date: December 2006

EEC

Mesa Verde

Date:December 2006

Sample Location =TP 1

Sample TP1

Set # 3

3.0%A.C. 5% Flyash

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.46142	2.255	126.0	125.1	844	54.6	55.3	Wet
B	4	2.51181	2.253	124.8		846	54.2		Wet
C	4	2.50000	2.260	124.4		894	56.9		Wet
D	4	2.54331	2.263	122.4	123.9	938	58.7	62.6	Dry
E	4	2.48425	2.256	125.0		1018	65.3		Dry
F	4	2.50000	2.259	124.3		1001	63.8		Dry

Wet/Dry Ratio= 88.29887

Sample TP1

Set # 4

4.0A.C. 5% Flyash

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.46457	2.265	126.5	124.2	793	51.2	53.3	Wet
B	4	2.53150	2.278	123.8		852	53.6		Wet
C	4	2.53543	2.254	122.3		877	55.1		Wet
D	4	2.54331	2.255	122.0	122.2	938	58.7	54.3	Dry
E	4	2.53150	2.267	123.2		831	52.3		Dry
F	4	2.55906	2.257	121.4		835	52.0		Dry

Wet/Dry Ratio= 98.12872

Sample TP1

Set # 5

4.0A.C. 2% Cement

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.59449	2.260	119.8	120.3	829	50.9	51.3	Wet
B	4	2.55512	2.261	121.7		854	53.2		Wet
C	4	2.59449	2.249	119.2		813	49.9		Wet
D	4	2.59843	2.250	119.1	119.4	947	58.0	61.9	Dry
E	4	2.58661	2.254	119.9		987	60.8		Dry
F	4	2.59843	2.252	119.3		1094	67.0		Dry

Wet/Dry Ratio= 82.86762

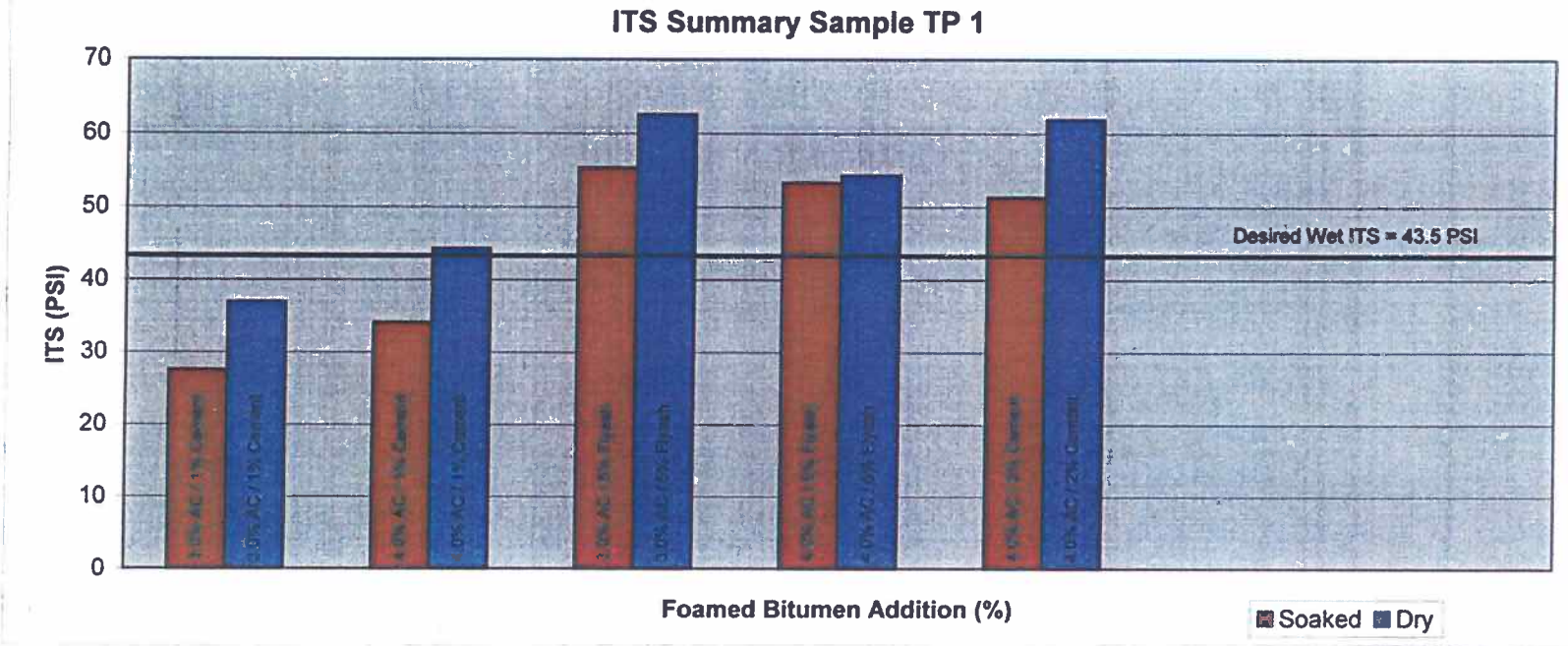
Project: Mesa Verde MEVE 10(8)
Location: near Cortez, Colorado
Project #: 1064196
Date: December 2006

EEC

Summary of ITS Testing

Location: Mesa Verde

% Foamed Asphalt Added	3.0%	4.0%	3.0%	4.0%	4.0%		
Additives & %	1% Portland Cement	1% Portland Cement	5% Flyash	5% Flyash	2% Cement		
Molded Density lb/ft^3	119.8	121	124.5	123.2	119.9		
ITS Dry (PSI)	36.9	44.3	62.6	54.3	61.9		
ITS Soaked (PSI)	27.6	34.1	55.3	53.3	51.3		
Retained Strength (%)	74.9	76.8	88.3	98.1	82.9		



Project: Mesa Verde MEVE 10(8)
Location: near Cortez, Colorado
Project #: 1064196
Date: December 2006

EEC

EARTH ENGINEERING CONSULTANTS, INC.

SUMMARY OF GRADATION TEST RESULTS

GRADATION OF AGGREGATE (ASTM C-136)	
SIEVE SIZE	PERCENT PASSING
6"	100%
5"	100%
4"	100%
3"	100%
2"	100%
1 1/2"	100%
1"	97%
3/4"	91%
1/2"	66%
3/8"	49%
No. 4	21%
No. 8	9%
No. 16	4%
No. 30	2%
No. 40	1%
No. 50	1%
No. 100	0.3%
No. 200	0.1%

Project: Mesa Verde MEVE 10(8)

Location: near Cortez, Colorado

EEC Project No: 1064196

Date: December 2006

Sample Number: TP-2 RAP

EARTH ENGINEERING CONSULTANTS, INC.

SUMMARY OF GRADATION TEST RESULTS

GRADATION OF AGGREGATE (ASTM C-136)	
SIEVE SIZE	PERCENT PASSING
6"	100%
5"	100%
4"	100%
3"	100%
2"	100%
1 1/2"	100%
1"	96%
3/4"	89%
1/2"	76%
3/8"	66%
No. 4	50%
No. 8	40%
No. 16	33%
No. 30	27%
No. 40	23%
No. 50	19%
No. 100	11.6%
No. 200	7.8%

Project: Mesa Verde MEVE 10(8)

Location: Mesa Verde, Colorado

EEC Project No: 1064196

Date: December 2006

Sample Number: TP-2 BASE

EARTH ENGINEERING CONSULTANTS, INC.
FOAMING MIX DESIGN - COMPOSITE GRADATION

TABLE I - AGGREGATE GRADATIONS

Sieve Size		Rap 1	Base 2	Composite	Designed Specifications
11/2"	(37.5 mm)	100	100	100	100
1"	(25 mm)	97	96	97	95
3/4"	(19 mm)	91	89	90	
1/2"	(12.5 mm)	66	76	70	
3/8"	(9.5 mm)	49	66	56	
No. 4	(4.75 mm)	21	50	33	
No. 8	(2.36 mm)	9	40	22	
No. 16	(1.18 mm)	4	33	16	
No. 30	(600 µm)	2	27	12	
No. 40	(425 µm)	1	23	10	
No. 50	(300 µm)	1	19	8	
No. 100	(150 µm)	0.3	11.6	5	
No. 200	(75 µm)	0.1	7.8	3.3	5-25
% used		59%	41%	100%	0%

Project: Mesa Verde MEVE 10(8)
Location: near Cortez, Colorado
Project No.: 1064196
Date: January 2007
Mix Design No.: TP 2

EEC

Mesa Verde

Date:December 2006

Sample Location =TP 2

Sample TP2

Set # 1

2.0%A.C. 1% Cement

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.61024	2.273	119.8	120.8	460	28.1	27.4	Wet
B	4	2.55118	2.302	122.3		465	28.6		Wet
C	4	2.61811	2.290	120.3		421	25.6		Wet
D	4	2.57480	2.302	123.0	121.8	602	37.2	37.1	Dry
E	4	2.59055	2.295	121.9		605	37.2		Dry
F	4	2.60236	2.280	120.5		605	37.0		Dry
							Wet/Dry Ratio=		73.80833

Sample TP2

Set # 2

3.0A.C. 1% Cement

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.57480	2.308	123.3	122.2	561	34.7	34.0	Wet
B	4	2.56299	2.229	119.7		540	33.5		Wet
C	4	2.57087	2.311	123.7		544	33.7		Wet
D	4	2.61024	2.290	120.7	121.6	699	42.6	44.0	Dry
E	4	2.62992	2.303	120.5		690	41.8		Dry
F	4	2.57480	2.315	123.7		768	47.5		Dry
							Wet/Dry Ratio=		77.27533

Sample TP2

Set # 3

4.0A.C. 1% Cement

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.53937	2.291	124.1	121.4	600	37.6	37.5	Wet
B	4	2.61417	2.291	120.6		605	36.9		Wet
C	4	2.61417	2.269	119.4		622	37.9		Wet
D	4	2.61024	2.308	121.6	122.7	780	47.6	47.8	Dry
E	4	2.60630	2.281	120.4		765	46.7		Dry
F	4	2.51575	2.304	126.0		775	49.1		Dry
							Wet/Dry Ratio=		78.36991

Project: Mesa Verde MEVE 10(8)
Location: near Cortez, Colorado
Project #: 1064196
Date: December 2006

EEC

Sample TP2
Set # 4

4.0A.C. 1.5% Cement

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.51969	2.257	123.2	123.0	624	39.4	39.0	Wet
B	4	2.52362	2.249	122.6		581	36.7		Wet
C	4	2.51969	2.257	123.2		647	40.9		Wet
D	4	2.51969	2.261	123.5	120.7	771	48.7	47.9	Dry
E	4	2.58661	2.255	119.9		770	47.4		Dry
F	4	2.61024	2.254	118.8		779	47.5		Dry
							Wet/Dry Ratio=		81.43644

Sample TP2
Set # 5

4.5A.C. 1.0% Cement

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.49055	2.247	124.1	121.2	625	40.0	38.9	Wet
B	4	2.58268	2.243	119.5		622	38.3		Wet
C	4	2.57480	2.244	119.9		620	38.3		Wet
D	4	2.50000	2.255	124.1	122.0	784	49.9	48.8	Dry
E	4	2.52756	2.246	122.3		779	49.1		Dry
F	4	2.57087	2.237	119.7		765	47.4		Dry
							Wet/Dry Ratio=		79.68299

Sample TP2
Set # 6

4.5A.C. 1.5% Cement

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.5748	2.23852	119.611		662.0	40.9406605		Wet
B	4	2.57874	2.25329	120.216	119.2	625.0	38.5933801	39.2	Wet
C	4	2.60236	2.22661	117.715		620.0	37.9371473		Wet
D	4	2.61417	2.22485	117.090		790.0	48.1208867		Dry
E	4	2.58268	2.24403	119.540	118.5	770.0	47.474509	47.9	Dry
F	4	2.59449	2.24271	118.926		786.0	48.2404001		Dry
							Wet/Dry Ratio=		81.67034

Project: Mesa Verde MEVE 10(8)
Location: near Cortez, Colorado
Project #: 1064196
Date: December 2006

EEC

Sample TP2
Set # 7

3.0A.C. 5% Flyash

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.45276	2.235	125.4		690	44.8		Wet
B	4	2.54724	2.235	120.7	121.4	705	44.1	44.4	Wet
C	4	2.54724	2.187	118.1		710	44.4		Wet
D	4	2.54724	2.271	122.7		884	55.3		Dry
E	4	2.55118	2.217	119.6	120.6	910	56.8	56.1	Dry
F	4	2.52362	2.192	119.5		890	56.2		Dry
							Wet/Dry Ratio=		79.21362

Sample TP2
Set # 8

4.0A.C. 5% Flyash

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.46457	2.244	125.3		684	44.2		Wet
B	4	2.50394	2.225	122.3	123.3	682	43.4	43.5	Wet
C	4	2.50394	2.225	122.3		675	42.9		Wet
D	4	2.50394	2.240	123.1		795	50.6		Dry
E	4	2.60630	2.229	117.7	120.0	800	48.9	49.4	Dry
F	4	2.55906	2.221	119.4		783	48.7		Dry
							Wet/Dry Ratio=		88.07627

Sample TP2
Set # 9

4.0A.C. 2% Cement

Sample	Sample Diameter (in)	Sample Height (in)	Sample Weight (lb)	Density (lb/ft^3)	Average Density	Load (lbf)	Tensile Strength (psi)	Average Tensile Strength	Wet/Dry
A	4	2.55512	2.25700	121.527		665.0	41.4429537		Wet
B	4	2.5	2.24600	123.602	120.6	675.0	42.9936306	42.5	Wet
C	4	2.59055	2.19900	116.785		699.0	42.9660622		Wet
D	4	2.55512	2.20100	118.512		852.0	53.0968369		Dry
E	4	2.58268	2.21500	117.993	119.6	825.0	50.8655454	52.9	Dry
F	4	2.51181	2.23300	122.308		865.0	54.8364938		Dry
							Wet/Dry Ratio=		80.22893

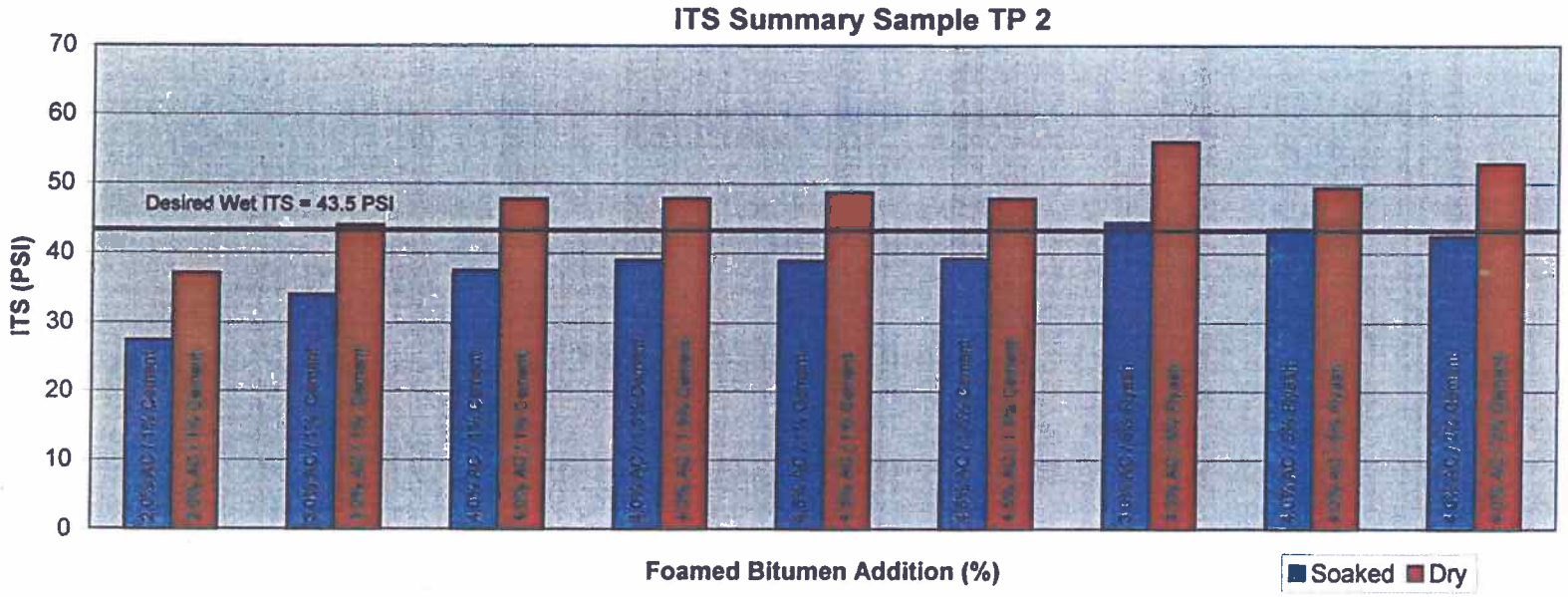
Project: Mesa Verde MEVE 10(8)
Location: near Cortez, Colorado
Project #: 1064196
Date: December 2006

EEC

Summary of ITS Testing

Location: Mesa Verde

% Foamed Asphalt Added	2.0%	3.0%	4.0%	4.0%	4.5%	4.5%	3.0%	4.0%	4.0%
Additives & %	1% Cement	1% Cement	1% Cement	1.5% Cement	1% Cement	1.5% Cement	5% Flyash	5% Flyash	2% Cement
Molded Density lb/ft^3	121.3	121.9	122.1	121.9	121.6	118.9	121	121.7	119.8
ITS Dry (PSI)	37.1	44	47.8	47.9	48.8	47.9	56.1	49.4	52.9
ITS Soaked (PSI)	27.4	34	37.5	39	38.9	39.2	44.4	43.5	42.5
Retained Strength (%)	73.8	77.3	78.4	81.4	79.7	81.7	79.2	88.1	88.2



Project: Mesa Verde MEVE 10(8)
Location: near Cortez, Colorado
Project #: 1064196
Date: December 2006

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