



May 22, 2012

Florida Department of Transportation
1650 N. Kepler Road
DeLand, Florida 32724

Attention: Mr. Tim Keefe

Reference: Final Pavement Evaluation and Condition Data Report
SR 551 (Goldenrod Rd) from south of SR 522 to north of SR 408
Orange County, Florida
FPN 424898-1
Section No: 75200-000
Contract No.: C-9570

Dear Mr. Keefe:

Per your request, Elipsis Engineering & Consulting (EEC) has obtained pavement core and other relative information for the above referenced project. Our scope of services was conducted in accordance with your request for proposal dated April 12, 2012.

The pavement core data is presented on the attached Pavement Evaluation and Condition Data (PECD) Sheets 1 and 2. We have also included supplemental data sheets for the GPS locations and Cross-slope data for each core location, roadway core location photographs and core photographs.

To the best of our knowledge, the information presented in the attachments to this letter are accurate and represents the existing pavement conditions at the locations cored. The pavement cores have been retained in storage pending further instructions from FDOT regarding their disposal.

Please feel free to contact us with any concerns or requests for further information.

Sincerely,

Elipsis Engineering & Consulting, LLC

Certificate of Authorization No. 28455

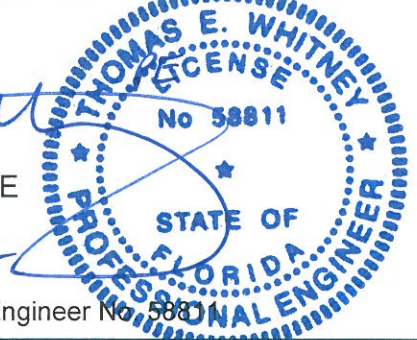
Thomas E. Whitney, PE

Principal Engineer

Signature Date: 5/22/12

STATE OF FLORIDA

Registered Professional Engineer No. 58811



Laying a new foundation for growth, one job at a time!

**State of Florida Department of Transportation
PAVEMENT EVALUATION AND CONDITION DATA SHEET**

Project No.:		424898-1		Cored By:		Elipsis Engineering		Date:		May 6 & 7		Page No.:		1 of 2							
County:		Orange		Highway Sect. No.:		75200		From:		South of SR 552 (Curry Ford)		To:		North of SR 408							
Road No.:		SR 551 (Goldenrod Road)		Begin MP:		2.600		End MP:		4.540		Length:		1.940							
Core No.	MP	Distance from left edge of lane (ft)	Lane	Wheel Path	FC-4	FC-3	Type S	Pavement Layer (in.)		Core Length (in)	Base		Depth (in)	Type	Class	Extent	Pavt Cond.	Rut Depth (in)	Cross Slope (%)	Comments	
								Type	Thickness (in)		Type	Thickness (in)									
1	4.257	8.0	L2	X	0.6		3.4	LR	10.9	4.0	LR	10.9	2.5	Br	II	M	P				
2	3.720	7.0	L2		0.9		2.8	LR	8.0	3.7	LR	8.0	2.1	Br	II	M	P				
3	3.283	4.5	L2		0.6		3.3	LR	8.4	3.9	LR	8.4	2.2	Br	II	L	P				Right Hand Curve
4	2.858	8.5	L2	X	0.8		2.6	LR	10.6	3.4	LR	10.6	B	SL	III	M	P				
5	2.765	5.0	LRTL		0.6		2.7	LR	9.9	3.3	LR	9.9	-	-	-	-	F				
6	2.637	8.0	L2	X		1.2	3.6	LR	9.4	3.6	LR	9.4	1.1	Br	I	L	F				
7	2.639	4.0	R2	X	0.7		2.7	LR	10.7	3.4	LR	10.7	-	-	-	-	F				At Beginning of RRTL
8	2.682	6.0	RRTL		0.7		2.8	LR	10.7	3.5	LR	10.7	-	-	-	-	F				
9	2.878	4.0	R2	X	0.6		3.3	LR	10.2	3.9	LR	10.2	2.7	Br	II	M	P				
10	3.278	6.5	R2		0.9		2.8	LR	10.5	3.7	LR	10.5	-	-	-	-	F				Left Hand Curve
11	3.626	9.0	R2	X	1.0		3.0	LR	10.2	4.0	LR	10.2	B	Br	III	M	P				
12	4.111	3.5	R2	X	1.0		2.7	LR	10.4	3.7	LR	10.4	B	A	III	S	P				
13	4.477	5.0	LLTL-1		0.6		9.4	LR	13.3	10.0	LR	13.3	-	-	-	-	F				
14	4.476	4.0	LLTL-2		1.6		8.9	LR	12.8	10.5	LR	12.8	-	-	-	-	F				
15	4.222	6.0	LLTL		1.0		2.9	LR	13.0	3.9	LR	13.0	-	-	-	-	F				
16	4.164	6.5	L1		0.8		3.0	LR	8.4	3.8	LR	8.4	2.9	Br	I	L	P				

Remarks: Crack Depth of "B" indicates full depth crack to the base. EOP = Edge of Pavement

Crack Extent: L= Light; M= Moderate; S= Severe Pavement Condition: G= Good; F= Fair; P= Poor Crack Types: A= Alligator; B= Block; Br= Branch

_SL= Single Longitudinal; ST= Single Transverse; R= Reflective; J= Joint; OGFC= Open-Graded FC Stress Crack

Base Types: LR= Limerock; COQ= Coquina; SC= Soil Cement; ABC= Asphalt Base; SAHM= Sand Asphalt Hot Mix; NB= No Base

**State of Florida Department of Transportation
PAVEMENT EVALUATION AND CONDITION DATA SHEET**

Project No.:		424898-1		Cored By:		Elipsis Engineering		Date:		May 6 & 7		Page No.:		2 of 2			
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Road No.:		SR 551 (Goldenrod Road)		Begin MP:		2.600		End MP:		4.540		Length:		1.940			
Core No.	MP	Distance from left edge of lane (ft)	Lane	Wheel Path	Pavement Layer (in.)			Base		Core Length (in.)	Crack			Rut Depth (in)	Cross Slope (%)	Comments	
					FC-4	FC-3	Type S	Type	Thickness (in)		Depth (in)	Type	Class				Extent
17	3.853	11.5	L1		0.8		3.0	LR	3.8			2.7	ST	I	L	P	Beginning of LLTL
18	3.818	3.5	LLTL	X	0.7		2.9	LR	3.6							F	
19	3.456	11.0	MXO		0.6		3.0	LR	3.6							F	
20	3.402	9.0	L1	X	0.6		3.0	LR	3.6			B	SL	II	M	P	
21	3.279	5.5	LLTL		0.8		2.0	LR	2.8							P	Right Hand Curve
22	2.929	8.5	L1	X	0.8		2.6	LR	3.4			B	Br	III	S	P	Left Hand Curve
23	2.788	3.0	LLTL	X	0.8		2.8	LR	3.6							F	
24	2.791	5.0	R1		0.7		3.0	LR	3.7							F	
25	2.907	5.0	RLTL		0.4		2.9	LR	3.3							P	Right Hand Curve
26	3.450	9.0	R1	X	1.0		2.6	LR	3.6			1.8	Br	II	M	P	
27	3.683	4.0	RLTL		0.9		2.9	LR	3.8							F	
28	3.805	7.5	R1		1.0		2.6	LR	3.6			1.4	Br	II	M	P	
29	4.047	4.0	RLTL		0.7		2.6	LR	3.3							F	
30	4.254	2.5	R1	X	0.6		2.9	LR	3.5			B	Br	III	S	P	At Beginning of RLTL
31	4.456	8.0	LRTL	X	0.3		4.7	LR	5.0							F	
32																	

Remarks: Crack Depth of "B" indicates full depth crack to the base. EOP = Edge of Pavement
 Crack Extent: L= Light; M= Moderate; S= Severe Pavement Condition: G= Good; F= Fair; P= Poor Crack Types: A= Alligator; Bl= Block; Br= Branch
 SL= Single Longitudinal; ST= Single Transverse; R= Reflective; J= Joint; OGFC= Open-Graded FC Stress Crack
 Base Types: LR= Limerock; COQ= Coquina; SC= Soil Cement; ABC= Asphalt Base; SAHM= Sand Asphalt Hot Mix; NB= No Base

Supplemental Data to PECD

(GPS Coordinates for Each Locations Cored)

SR 551

FIN: 424898-1

County: Orange

Core #	GPS Coordinates
1	28°32'11.37"N 81°17'8.93"W
2	28°31'43.59"N 81°17'8.63"W
3	28°31'20.82"N 81°17'8.66"W
4	28°31'3.12"N 81°17'23.04"W
5	28°30'58.85"N 81°17'23.71"W
6	28°30'51.45"N 81°17'23.28"W
7	28°30'51.89"N 81°17'22.83"W
8	28°30'54.21"N 81°17'22.76"W
9	28°31'4.26"N 81°17'21.96"W
10	28°31'21.31"N 81°17'8.11"W
11	28°31'39.44"N 81°17'8.05"W
12	28°32'4.33"N 81°17'8.42"W
13	28°32'22.68"N 81°17'8.83"W
14	28°32'22.58"N 81°17'8.94"W
15	28°32'9.46"N 81°17'8.66"W
16	28°32'6.31"N 81°17'8.87"W
17	28°31'50.03"N 81°17'8.65"W
18	28°31'48.39"N 81°17'8.51"W
19	28°31'29.40"N 81°17'8.24"W
20	28°31'26.27"N 81°17'8.43"W

Core #	GPS Coordinates
21	28°31'20.07"N 81°17'8.65"W
22	28°31'6.88"N 81°17'21.39"W
23	28°30'59.53"N 81°17'23.38"W
24	28°30'59.73"N 81°17'22.95"W
25	28°31'5.74"N 81°17'21.74"W
26	28°31'29.65"N 81°17'7.99"W
27	28°31'41.83"N 81°17'8.32"W
28	28°31'48.18"N 81°17'8.14"W
29	28°32'1.18"N 81°17'8.35"W
30	28°32'11.68"N 81°17'8.61"W
31	28°32'22.09"N 81°17'9.27"W
32	
33	
34	
35	
36	
37	
38	
39	
40	

Supplemental Data to PECD
(Cross-Slope Data for Each Locations Cored)

Core #	MP	Lane	0 to 6 feet	6 to 12 feet
1	4.257	L2	3.1	2.4
2	3.720	L2	3.0	2.9
3	3.283	L2	4.5	4.3
4	2.858	L2	1.1	1.5
5	2.765	LRTL	1.9	2.2
6	2.637	L2	1.9	1.4
7	2.639	R2	3.0	2.4
8	2.682	RRTL	2.7	2.5
9	2.878	R2	2.4	2.0
10	3.278	R2	-5.0	-5.1
11	3.626	R2	3.1	2.8
12	4.111	R2	3.4	3.3
13	4.477	LLTL-1	1.2	0.5
14	4.476	LLTL-2	1.9	2.6
15	4.222	LLTL	1.6	1.3
16	4.164	L1	2.4	2.2
17	3.853	L1	1.5	1.7
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20	3.402	L1	2.0	1.9

Core #	MP	Lane	0 to 6 feet	6 to 12 feet
21	3.279	LLTL	3.6	3.3
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23	2.788	LLTL	-1.7	-2.2
24	2.791	R1	2.0	1.5
25	2.907	RRTL	2.2	1.7
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27	3.683	RRTL	1.9	1.5
28	3.805	R1	2.0	2.1
29	4.047	RRTL	1.4	1.5
30	4.254	R1	1.4	1.4
31	4.456	LRTL	1.9	0.9
32				
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