

FPN 242592-4; SR 400 (I-4) BTU from EE Williamson Bridge Overpass to US 17-92 / Volusia County Line  
Section # 77160 from MP 5.143 to MP 14.135

*Please note the following:*

*For Part 1 and Part 2, the pavement core data sheets posted on FTP site are derived from other projects that overlaps this project.*

*As a result, pavement composition may have or will be changed – especially for the upper/top asphalt layers. If 1:1 ratio is used for mill & resurface, then the overall pavement thickness (core length) would be relatively unchanged. Part 3 – Pavement Data for Rinehart Road is valid as shown, unless the City/County has done some mill/resurface work which would alter the pavement composition.*

Data file name

242592-4 SR 400 (I-4) PECD – Part 1	Pavement Data from 429080-1 which covers MP 5.152 to MP 7.362
242592-4 SR 400 (I-4) PECD – Part 2	Pavement Data from 439682-1 which covers MP 7.362 to 14.135
242592-4 SR 400 (I-4) PECD – Part 3	Pavement Data for Rinehart Road

\* **Disclaimer:** The pavement cores were collected for upcoming I-4 3R project (439682-1). The pavement composition may likely have been changed/alterd - especially for upper/top asphalt layers. If 1:1 ratio is used for mill & resurface, then the overall pavement thickness (core length) would be relatively unchanged.

State of Florida Department of Transportation PAVEMENT EVALUATION AND CONDITION DATA SHEET																					
<b>Project No.:</b> 439682-1				<b>Cored By:</b> Elipsis Engineering and Consulting				<b>Date:</b> 7/18/16 to 7/21/16				<b>Page No.:</b> 1 of 7									
<b>County:</b> Seminole County				<b>Highway Sect. No:</b> 77160				<b>From:</b> West (South) of Lake Mary Blvd				<b>To:</b> Volusia County Line									
<b>Road No.:</b> SR 400 (I-4)				<b>Begin MP:</b> 7.362				<b>End MP:</b> 14.135				<b>Length:</b> 6.773									
Core No.	MP	Distance from left edge of lane (ft)	Lane	Wheel Path	Pavement Layer (in.)						Base		Crack				Pavt Cond.	Rut Depth (in)	Cross Slope (%)	Comments	
					*FC-5	*Type SP /Type S	Type I	Binder			Core Length (in)	Type	Thick-ness (in)	Depth (in)	Type	Class					Extent
1	13.086	7.0	OL			1.7					1.7	LR	10.3	-	-	-	-	F			
2	12.575	4.5	OL			2.8					2.8	LR	7.4	-	-	-	-	F			
3	12.305	6.0	OL			2.9					2.9	LR	7.1	-	-	-	-	F			
4	11.946	6.0	OL			5.7					5.7	LR	11.8	-	-	-	-	F			
5	10.805	6.0	OL			2.7					2.7	LR	6.1	-	-	-	-	F			
6	9.911	6.0	OL			6.2					6.2	LR	12.3	-	-	-	-	F			
7	9.106	6.5	OL			1.4					1.4	LR	6.6	-	-	-	-	F			
8	8.380	6.0	OL			1.3					1.3	LR	8.2	-	-	-	-	F			
9	7.508	6.5	OL			2.1					2.1	LR	4.9	0.8	Br	I	L	F			
10	7.435	7.0	OR			1.5					1.5	LR	7.0	-	-	-	-	F			
11	8.027	5.0	OR			1.3					1.3	LR	6.2	B	SL	II	M	F			
12	9.249	6.0	OR			1.5					1.5	LR	5.3	-	-	-	-	F			
13	9.840	6.0	OR			1.6					1.6	LR	7.2	-	-	-	-	F			
14	10.340	7.0	OR			1.5					1.5	LR	15.0	-	-	-	-	F			
15	10.715	7.0	OR			1.8					1.8	LR	5.7	-	-	-	-	F			
16	11.734	7.0	OR			1.8					1.8	LR	6.2	-	-	-	-	F			

**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; BI= 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

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<b>County:</b> Seminole County	<b>Highway Sect. No:</b> 77160	<b>From:</b> West (South) of Lake Mary Blvd	<b>To:</b> Volusia County Line
<b>Road No.:</b> SR 400 (I-4)	<b>Begin MP:</b> 7.362	<b>End MP:</b> 14.135	<b>Length:</b> 6.773

Core No.	MP	Distance from left edge of lane (ft)	Lane	Wheel Path	Pavement Layer (in.)						Base		Crack				Pavt Cond.	Rut Depth (in)	Cross Slope (%)	Comments		
					FC-5	Type SP / Type S	Type I	Binder			Core Length (in)	Type	Thick-ness (in)	Depth (in)	Type	Class					Extent	
17	12.244	6.0	OR			2.1					2.1	LR	6.4	-	-	-	-	F				
18	12.795	6.0	OR			2.8					2.8	LR	0.7	-	-	-	-	F				
19	13.283	7.0	OR			2.4					2.4	LR	5.6	-	-	-	-	F				
20	13.999	4.5	OR			3.0					3.0	LR	5.5	-	-	-	-	F				
21	13.982	4.5	IL			1.9					1.9	LR	8.1	-	-	-	-	F				
22	13.264	5.0	IL			2.2					2.2	LR	7.3	-	-	-	-	F				
23	12.417	6.5	IL			0.9					0.9	LR	11.1	-	-	-	-	F				Distance taken from Face of Guardrail
24	11.415	5.0	IL			2.9					2.9	LR	10.6	-	-	-	-	F				
25	10.767	5.0	IL			2.3					2.3	LR	11.2	-	-	-	-	F				
26	10.001	5.0	IL			1.5					1.5	LR	12.5	-	-	-	-	F				
27	9.316	4.5	IL			2.5					2.5	LR	11.0	-	-	-	-	F				
28	8.428	4.5	IL			3.8					3.8	LR	14.0	-	-	-	-	F				
29	7.456	5.0	IL			3.0					3.0	LR	5.3	-	-	-	-	F				
30	7.475	7.0	IR			3.7					3.7	LR	5.1	-	-	-	-	F				Distance taken from Face of Guardrail
31	8.194	6.5	IR			1.4					1.4	LR	10.5	-	-	-	-	F				Distance taken from Face of Guardrail
32	9.175	6.5	IR			1.7					1.7	LR	12.4	-	-	-	-	F				Distance taken from Face of Guardrail

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Core No.	MP	Distance from left edge of lane (ft)	Lane	Wheel Path	Pavement Layer (in.)						Base		Crack				Pavt Cond.	Rut Depth (in)	Cross Slope (%)	Comments	
					FC-5	Type SP / Type S	Type I	Binder			Core Length (in)	Type	Thick-ness (in)	Depth (in)	Type	Class					Extent
33	10.078	6.5	IR			3.8					3.8	LR	9.0	-	-	-	-	F			Distance taken from Face of Guardrail
34	10.955	6.0	IR			1.6					1.6	LR	10.5	-	-	-	-	F			Distance taken from Face of Guardrail
35	11.834	6.5	IR			1.7					1.7	LR	10.9	-	-	-	-	F			Distance taken from Face of Guardrail
36	12.315	6.0	IR			1.3					1.3	LR	7.7	-	-	-	-	F			Distance taken from Face of Guardrail
37	12.477	3.0	IR			1.5					1.5	LR	6.5	B	ST	II	L	F			
38	13.350	6.0	IR			3.6					3.6	LR	6.6	-	-	-	-	F			Distance taken from Face of Guardrail
39	13.801	5.5	IR			2.5					2.5	LR	6.8	-	-	-	-	F			Distance taken from Face of Guardrail
40	13.797	9.0	L3	X	0.7	9.8					10.5	LR	11.9	-	-	-	-	P			Alignment Shift - New Construction
41	13.086	8.5	L4	X	0.7	6.0					6.7	LR	15.7	-	-	-	-	P			Auxiliary Outside Lane => Decel Lane for I-4 WB Off Ramp to SR 46
42	12.575	6.0	L3		1.0	5.3					6.3	LR	9.2	-	-	-	-	F			
43	12.305	9.0	L4	X	0.8	5.8					6.6	LR	13.9	-	-	-	-	F			Auxiliary Outside Lane => Decel Lane for I-4 WB Off Ramp to SR 417 & CR 46A
44	11.946	6.5	L3		0.9	6.0					6.9	LR	11.4	-	-	-	-	F			
45	13.982	3.0	L1	X	0.6	5.6					6.2	LR	14.3	-	-	-	-	F			Alignment Shift - New Construction
46	13.264	3.0	L1	X	0.6	3.8			1.8		6.2	LR	10.3	-	-	-	-	P			
47	12.417	2.5	L1	X	0.9	5.1					6.0	LR	11.5	-	-	-	-	F			
48	11.415	4.0	L1		0.9	2.8	0.9	2.7			7.3	LR	N/A	-	-	-	-	F			

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<b>County:</b> Seminole County	<b>Highway Sect. No:</b> 77160	<b>From:</b> West (South) of Lake Mary Blvd	<b>To:</b> Volusia County Line
<b>Road No.:</b> SR 400 (I-4)	<b>Begin MP:</b> 7.362	<b>End MP:</b> 14.135	<b>Length:</b> 6.773

Core No.	MP	Distance from left edge of lane (ft)	Lane	Wheel Path	Pavement Layer (in.)						Base		Crack				Pavt Cond.	Rut Depth (in)	Cross Slope (%)	Comments	
					FC-5	Type SP /Type S	Type I	Binder			Core Length (in)	Type	Thick-ness (in)	Depth (in)	Type	Class					Extent
49	10.767	3.0	L1	X	0.9	3.1		2.3			6.3	LR	10.2	-	-	-	-	F			
50	10.001	3.0	L1	X	1.0	3.3		2.0			6.3	LR	N/A	-	-	-	-	F			
51	9.316	4.5	L1		1.3	3.0		1.8			6.1	LR	9.9	-	-	-	-	F			
52	8.428	2.5	L1	X	0.9	4.5	1.4	2.3			9.1	LR	N/A	-	-	-	-	F			
53	7.456	4.5	L1		0.8	4.6	1.4	2.3			9.1	LR	10.9	-	-	-	-	F			
54	7.475	3.0	R1	X	0.5	6.1	1.2	2.7			10.5	LR	N/A	-	-	-	-	P			
55	8.194	2.5	R1	X	0.9	3.3		2.6			6.8	LR	10.7	-	-	-	-	P			
56	9.175	5.0	R1		0.9	3.4	1.2	2.6			8.1	LR	N/A	-	-	-	-	P			
57	10.078	2.5	R1	X	0.9	3.3		1.5			5.7	LR	10.3	-	-	-	-	P			
58	10.955	2.5	R1	X	0.8	3.4		2.5			6.7	LR	N/A	-	-	-	-	P			
59	11.834	5.0	R1		0.5	4.6		2.8			7.9	LR	10.1	-	-	-	-	P			
60	12.315	3.0	R1	X	0.8	5.8					6.6	LR	9.4	-	-	-	-	P			Alignment Shift - New Construction
61	12.477	2.5	R1	X	0.7	5.8					6.5	LR	9.5	-	-	-	-	P			Alignment Shift - New Construction
62	13.350	3.5	R1	X	1.0	4.3	1.6	1.8			8.7	LR	10.3	-	-	-	-	P			
63	13.801	2.5	R1	X	0.8	7.3					8.1	LR	13.9	-	-	-	-	P			Alignment Shift - New Construction
64	10.805	9.0	L3	X	0.8	6.2					7.0	LR	11.1	-	-	-	-	F			

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<b>County:</b> Seminole County	<b>Highway Sect. No:</b> 77160	<b>From:</b> West (South) of Lake Mary Blvd	<b>To:</b> Volusia County Line
<b>Road No.:</b> SR 400 (I-4)	<b>Begin MP:</b> 7.362	<b>End MP:</b> 14.135	<b>Length:</b> 6.773

Core No.	MP	Distance from left edge of lane (ft)	Lane	Wheel Path	Pavement Layer (in.)							Base		Crack				Pavt Cond.	Rut Depth (in)	Cross Slope (%)	Comments	
					FC-5	Type SP / Type S	Type I	Binder			Core Length (in)	Type	Thick-ness (in)	Depth (in)	Type	Class	Extent					
65	9.911	9.0	L3	X	0.8	4.9					5.7	LR	10.8	-	-	-	-	F				
66	9.106	7.0	L4		1.0	5.9					6.9	LR	9.1	-	-	-	-	P				Auxiliary Outside Lane between CR 46A and Lake Mary Blvd. Lane Continues as I-4 WB Off-Ramp to LMB.
67	8.380	9.5	L3	X	0.5	5.9					6.4	LR	13.1	-	-	-	-	P				
68	7.508	6.5	L4		0.8	5.1					5.9	LR	12.0	-	-	-	-	P				Accel Lane from Lake Mary Blvd On-Ramp to I-4 WB.
69	7.435	8.0	R4		0.4	6.3					6.7	LR	11.8	-	-	-	-	P				Decel Lane for I-4 EB Off-Ramp to Lake Mary Blvd.
70	8.027	9.0	R3	X	1.0	5.3					6.3	LR	11.2	-	-	-	-	P				
71	9.249	7.0	R4		0.7	5.1					5.8	LR	9.2	-	-	-	-	P				Auxiliary Outside Lane between Lake Mary Blvd. and CR 46A
72	9.840	6.0	R5		0.9	6.4					7.3	LR	11.7	-	-	-	-	P				Decel Lane for I-4 EB Off-Ramp to CR 46A
73	10.340	9.5	R4	X	0.7	5.2					5.9	LR	13.1	-	-	-	-	P				Decel Lane for I-4 EB Off-Ramp to SR 417 & SR 46
74	10.715	5.5	R3		0.8	6.4					7.2	LR	11.3	-	-	-	-	P				
75	11.734	2.0	R3	X	1.0	6.5					7.5	LR	10.5	B	SL	III	S	P				
76	12.244	8.5	R4	X	0.9	5.9					6.8	LR	9.5	-	-	-	-	P				Alignment Shift - New Construction Auxiliary Outside Lane between SR 417 and SR 46
77	12.795	7.5	R4		0.7	8.7					9.4	LR	8.6	1.3	SL	III	L	P				Core split during extraction Auxiliary Outside Lane Between SR 417 and SR 46
78	13.283	8.5	R4	X	0.7	5.5					6.2	LR	13.3	-	-	-	-	P				Decel Lane for I-4 EB Off-Ramp to US 17-92
79	13.999	9.0	R3	X	0.8	5.2					6.0	LR	12.5	-	-	-	-	P				Alignment Shift - New Construction

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<b>Project No.:</b> 439682-1					<b>Cored By:</b> Elipsis Engineering and Consulting							<b>Date:</b> 12/5/16 & 12/6/16				<b>Page No.:</b> 6 of 7					
<b>County:</b> Seminole					<b>Highway Sect. No.:</b> 77160							<b>From:</b> West (South) of Lake Mary Blvd				<b>To:</b> Volusia County Line					
<b>Road No.:</b> SR 400 (I-4)					<b>Begin MP:</b> 7.362							<b>End MP:</b> 14.135				<b>Length:</b> 6.773					
Core No.	MP	Distance from left edge of lane (ft)	Lane	Wheel Path	Pavement Layer (in.)							Base		Crack				Pavt Cond.	Rut Depth (in)	Cross Slope (%)	Comments
					FC-6	FC-2	FC-5	Type SP	Type S	Binder	Core Length (in)	Type	Thick-ness (in)	Depth (in)	Type	Class	Extent				
80	*	2.5	RAMP R1	X	1.4	--	--	--	2.9	--	4.3	LR	12.2	--	--	--	--	F			Off Ramp from EB I-4 to Lake Mary Blvd
81	*	9.5	RAMP RRTL-2	X	1.6	--	--	--	1.9	--	11.3	ABC	7.8	--	--	--	--	F			Off Ramp from EB I-4 to EB Lake Mary Blvd
82	*	2.5	RAMP RRTL-2	X	1.7	--	--	--	3.1	--	4.8	LR	12.5	--	--	--	--	F			Off Ramp from EB I-4 to EB Lake Mary Blvd
83	*	14.5	RAMP		1.6	--	--	--	3.1	--	4.7	LR	13.6	--	--	--	--	F			On Ramp from WB Lake Mary Blvd to EB I-4
84	*	3.0	RAMP R2	X	--	--	0.8	1.2	1.9	--	3.9	LR	9.1	--	--	--	--	F			Off-Ramp from EB I-4 to CR 46A
85	*	10.0	RAMP RRTL-2	X	--	0.7	--	--	2.6	--	3.3	LR	10.4	--	--	--	--	P			Off- Ramp from EB I-4 to EB CR 46A Moderate to Severe Ravelling
86	*	2.5	RAMP RLTL-1	X	--	0.9	--	--	3.9	--	4.8	LR	11.4	1.5	SL	II	M	P			Off- Ramp from EB I-4 to WB CR 46A
87	*	7.5	RAMP R1		--	0.6	--	--	3.2	--	3.8	LR	8.6	0.6	SL	II	M	F			On-Ramp from WB CR 46A to EB I-4 Minor Pavement Ripples Observed
88	*	15.0	RAMP		--	0.8	--	--	4.0	--	4.8	LR	13.2	--	--	--	--	F			On-Ramp from CR 46A to EB I-4
89	*	2.0	RAMP R1	X	--	0.5	--	--	4.1	--	4.6	LR	10.9	--	--	--	--	F			Off-Ramp from EB I-4 to SR 46
90	*	3.0	RAMP RRTL-2	X	--	1.0	--	--	3.9	1.4	6.3	LR	10.7	B	SL	II	M	F			Off-Ramp from EB I-4 to EB SR 46
91	*	12.0	RAMP		1.6	--	--	--	4.1	--	15.1	ABC	9.4	--	--	--	--	G			On-Ramp from WB SR 46 to EB I-4
92	*	12.0	RAMP		--	--	0.4	--	2.9	--	3.3	LR	9.0	--	--	--	--	P			On-Ramp from SR 46 to EB I-4
93	*	2.5	RAMP L1	X	--	0.8	--	--	4.9	--	5.7	LR	12.0	--	--	--	--	F			Off-Ramp from WB I-4 to SR 46
94	*	9.5	RAMP LRTL	X	--	0.5	--	--	3.5	--	15.3	ABC	11.3	--	--	--	--	F			Off-Ramp from WB I-4 to WB SR 46
95	*	13.0	RAMP		--	--	0.8	4.8	--	--	5.6	LR	11.1	--	--	--	--	F			On-Ramp from WB SR 46 to WB I-4

**Remarks:** Crack Depth of "B" indicates full depth crack to the base. EOP = Edge of Pavement \* = Refer to Aerial Coring Plan for a more accurate location  
**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

**Disclaimer:** The pavement cores were collected for upcoming I-4 3R project (439682-1). The pavement composition may likely have been changed/alterd - especially for upper/top asphalt layers. If 1:1 ratio is used for mill & resurface, then the overall pavement thickness (core length) would be relatively unchanged.

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

<b>Project No.:</b> 439682-1	<b>Cored By:</b> Elipsis Engineering and Consulting	<b>Date:</b> 12/5/16 & 12/6/16	<b>Page No.:</b> 7 of 7
<b>County:</b> Seminole	<b>Highway Sect. No:</b> 77160	<b>From:</b> West (South) of Lake Mary Blvd	<b>To:</b> Volusia County Line
<b>Road No.:</b> SR 400 (I-4)	<b>Begin MP:</b> 7.362	<b>End MP:</b> 14.135	<b>Length:</b> 6.773

Core No.	MP	Distance from left edge of lane (ft)	Lane	Wheel Path	Pavement Layer (in.)							Base		Crack				Pavt Cond.	Rut Depth (in)	Cross Slope (%)	Comments	
					FC-6	FC-2	FC-5	Type SP	Type S	Binder	Core Length (in)	Type	Thick-ness (in)	Depth (in)	Type	Class	Extent					
96	*	13.5	RAMP		--	--	0.8	4.5	--	--	5.3	LR	11.7	--	--	--	--	F			On-Ramp from EB SR 46 to WB I-4	
97	*	12.0	RAMP		--	--	0.7	2.7	--	--	3.4	LR	10.6	--	--	--	--	F			Off-Ramp from WB I-4 to CR 46A	
98	*	3.0	RAMP LRTL-2	X	--	--	0.8	2.7	--	--	3.5	LR	9.8	--	--	--	--	F			Off-Ramp from WB I-4 to EB CR 46A	
99	*	8.0	RAMP L2		--	--	0.9	2.8	--	--	3.7	LR	11.3	--	--	--	--	F			On-Ramp from CR 46A to WB I-4	
100	*	17.5	RAMP		--	--	0.7	1.6	3.2	--	5.5	LR	12.0	--	--	--	--	F			On-Ramp from CR 46A to WB I-4 Crown, - = Slopes to IL ; + = Slopes to OL	
101	*	3.0	RAMP L1	X	1.6	--	--	--	3.3	--	4.9	LR	13.1	--	--	--	--	F			Off-Ramp from WB I-4 to Lake Mary Blvd	
102	*	12.0	RAMP LRTL		1.7	--	--	--	--	--	1.7	LR	9.3	--	--	--	--	F			Off-Ramp from WB I-4 to WB Lake Mary Blvd	
103	*	14.0	RAMP		1.1	--	--	--	3.5	--	4.6	LR	13.4	--	--	--	--	F			On-Ramp from EB Lake Mary Blvd to EB I-4	
104	*	3.0	RAMP L2	X	1.1	--	--	--	4.1	--	5.2	LR	11.8	--	--	--	--	F			On-Ramp from WB Lake Mary Blvd to WB I-4	
105	*	13.0	RAMP L2		1.5	--	--	--	3.2	--	4.7	LR	14.3	--	--	--	--	F			On-Ramp from WB Lake Mary Blvd to WB I-4	
106	*	13.0	RAMP		1.2	--	--	--	2.6	--	3.8	LR	13.2	--	--	--	--	F			On-Ramp from EB Lake Mary Blvd to WB I-4	

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