



## *Florida Department of Transportation*

**RON DESANTIS**  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

**KEVIN J. THIBAUT, P.E.**  
SECRETARY

### **MEMORANDUM**

**DATE:** February 2, 2021

**FROM:** V. Seth Collie, P.E., District Pavement Evaluation Engineer  
Marlene Hebert, District Materials Pavement Coordinator

**SUBJECT:** Pavement Coring Data Memo  
FPN: 201277-3  
Description: SR 72 (Road ID 17070000) and I-75 (Road ID 17075000)  
County: Collier

The District 1 and 7 Materials Office conducted a field exploration that included extracting core samples. This work was completed in May 2018 and additional cores were extracted in January 2021 and is documented on the attached pavement core reporting sheets.

The data presented in this report is specific only at the locations cored at the time of the investigation. Should questions arise regarding the pavement composition, it is incumbent upon those raising the question to perform additional exploration as necessary.

If we can be of further assistance, please contact this office.

#### Appendices

- 2018 Core Data
- 2021 Core Data

# **2018 CORE DATA**

## 201277-3 / SARASOTA / SR 93 (I-75)

MAINLINE								TOTAL ASPHALT THICKNESS	SUB-BASE				
CORE	MP	LANE	W/P	FC-5	SP2F	S			ABC	LR		STAB	COMMENTS
1	33.300	R1	Y	0.7	1.7	0.7			3.1	9.7		12	
3	33.300	L1	Y	0.8	1.3	1.6			3.7	8.8		12	
5	33.500	R2	Y	0.8	1.4	1.0			3.2	9.8		12	
6	33.500	L2	Y	0.7	1.5	1.3			3.5	9.0		12	
7	34.000	R3	Y	0.6	1.3	1.2			3.1	9.7		12	
9	34.000	L3	Y	0.9	1.5	1.6			4.0	10.0		12	
11	34.200	R2	N	0.8	1.4	2.0			4.2	9.3		12	
12	34.200	L2	Y	0.8	1.2	2.0			4.0	9.4		12	
13	34.600	R1	Y	0.8	1.1	3.3			5.2		11.5	12	
15	34.600	L1	Y	0.7	1.3	3.4			5.4		10.5	12	
17	35.000	R2	N	0.8	1.2	2.4			4.4		9.5	12	
18	35.000	L3	N	0.8	1.3	2.9			5.0		9.0	12	
19	35.500	R3	N	0.8	1.4	2.5			4.7		11.0	12	
21	35.500	L3	Y	0.8	1.1	2.8			4.7		10.0	12	
AVG				0.771	1.336	2.050			4.157	9.463	10.250	12.000	

SHOULDERS								TOTAL ASPHALT THICKNESS	SUB-BASE				
CORE	MP	LANE	W/P	FC-5	SP2F	S			ABC	LR		STAB	COMMENTS
2	33.3	IR	N			2.9			2.9	2.9		12	
4	33.3	IL	N			1.5			1.5	3.9		12	
8	34	OR	N			1.2			1.2	5.8		12	
10	34	OL	N			1.7			1.7	4.5		12	
14	34.6	IR	N			4.6			4.6		8.0	12	
16	34.6	IL	N			1.5			1.5		5.5	12	
20	35.5	OR	N			3.4			3.4		10.0	12	
22	35	OL	N			0.9			0.9		5.5	12	
AVG						2.213			2.213	4.275	7.250	12.000	

## 201277-3 / SARASOTA / SR 72 (CLARK ROAD)

MAINLINE								TOTAL ASPHALT THICKNESS				
CORE	MP	LANE	W/P	FC-12.5	S	T1	ST		ABC	SHELL	STAB	COMMENTS
23	4.300	R1	Y	1.1	2.4			3.5		10	12	
24	4.300	R2	N	1.5	2.7			4.2		9.5	12	
25	4.300	L1	N	1.3	3.2			4.5		9.5	12	
26	4.300	L2	Y	1.5	3.2			4.7		9	12	
27	4.400	R2	Y	1.4	2.8			4.2		9	12	
28	4.400	R3	N	1.2	2.1	1		4.3		9.5	12	
29	4.400	L2	N	1.3	2.3			3.6		11	12	
30	4.400	L3	Y	1.5	2.9			4.4		10.5	12	
31	5.000	R1	Y	1.8	1.7			3.5		9	12	
32	5.000	R2	Y	1.9	1.8			3.7		10.5	12	
33	5.000	L1	N	1.9	1.5			3.4		11	12	
34	5.000	L2	Y	1.5	0.8			2.3		11.5	12	
35	5.200	R1	N	1.8	1.9			3.7		9.5		
36	5.200	L1	Y	1.6	1.8			3.4		10.5		
37	5.200	L2	N	1.5	1.3			2.8		11		
				1.520	2.160	1.000		3.747			12.000	

# **2021 CORE DATA**



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
**PAVEMENT EVALUATION CORING AND CONDITION DATA**

Cored By: Ardaman & Associates - Mark Ochs

Date: 01/18/2021 - 01/20/2021

Typical Section:

W.P.I. No.:		Name: I-75 at SR 72 (Clark Road)				Lanes:	
Fin. Proj. ID: 201277-3		From: I-75 (32.880) & SR 72 (4.245)				Shoulder Type and Condition:	
F.A. Project No.:		To: I-75 (35.708) & SR 72 (5.296)				Inside:	
County: Sarasota	SR No.: I-75 & SR 72	Beg MP:	End MP:	Length: 0.000	Outside:		
Overall Pavement Condition (from DMO field review): Fair		Median Curbed (Y/N):	Paved	Lawn	Other:	Curb & Gutter (Y/N):	

**All Cores**

CORE NO.	MILE POST <sup>2</sup>	LANE TYPE	LANE	WP (Y/N)	PAVEMENT LAYER (IN.)								TOTAL ASPHALT THICKNESS (IN.)	BASE				CRACK				PAVEMENT CONDITION	RUT DEPTH - LWP (IN.)	RUT DEPTH - RWP (IN.)	CROSS SLOPE (%)	COMMENTS	
					FC5	FC9.5	SP1C	S	BIND	LR	ABC-1	SHEL		CONC	STABILIZED SUBGRADE <sup>3</sup>	DEPTH (IN.)	TYPE	CLASS	EXTENT								
41	34.322	TL/CO	G	N	1.5		1.4					2.9				8.6					G						
42	34.350	TL/CO	G	N		1.6	2.1					3.7			11.0						G						
43	34.369	TL/CO	G	N		1.6	1.2					2.8			11.1						G						
44	34.399	TL/CO	G	N	0.8		1.8	1.0				3.6				8.9					G						Two cross slope value: 1.0 on left side and 4.3 on right side of core.
45	34.477	ML	R2	Y	0.9		1.6	2.6				5.1			9.5	10.0	5.1	C		S	P					Full depth combination cracking.	
46	34.516	S	OR	N	0.9		2.8	2.3				6.0			9.3						G						Core taken at seam in shoulder (cracks at seam).
47	34.595	S	OR	N		0.7	2.7					3.4	8.7								G						Core taken at seam in shoulder (cracks at seam).
48	34.630	ML	R2	Y	0.8	1.6		2.4				4.8	9.6								F						
49	34.412	S	IR	N	0.9		2.7					3.6			12.4						G						Core taken near seam in shoulder.
50	34.441	ML	R1	Y	0.8		1.7	2.7				5.2	10.5								F						Rutting.
51	34.549	ML	R1	Y	0.9		2.0	2.1				5.0	11.0								F						Raveling.
52	34.581	S	IR	N	1.2		1.0	3.1				5.3	9.7								G						Core taken near seam in shoulder.
53	34.613	TL/CO	G	N	1.0		2.7	2.0				5.7	9.9								F						
54	34.635	TL/CO	G	N	1.0		2.0	2.5				5.5	10.2								G						
55	34.591	ML	L1	Y	1.3		1.9	2.9				6.1	9.5								G						
56	34.541	S	OL	N		1.0	2.4					3.4				9.7		3.4	C	L	S	P					Core taken near seam in shoulder. Full depth combination cracking. Base cracked.
57	34.486	ML	L1	Y	0.7		2.0					2.7			9.4						F						
58	34.432	S	OL	N		1.0	3.0					4.0			9.0		1.2	C		L	F						Core taken near shoulder seam.
59	34.395	TL/CO	G	N	1.4							1.4				9.2					G						Two cross slope value: 1.8 on left side and 1.6 on right side of core.
60	34.385	TL/CO	G	N		1.5	2.0					3.5			8.0						G						
61	34.350	TL/CO	G	N		1.0	1.2	1.8				4.0			11.7						G						
62	34.331	TL/CO	G	N	1.4		1.0	0.8				3.2			8.8						G						
63	34.293	ML	L1	Y	0.9		1.3	1.5	0.3			4.0			9.4						G						
64	34.227	S	OL	N	1.3		1.8					3.1			8.7		3.1	C		M	P						Full depth combination cracking.
65	34.167	ML	L1	Y	1.0		1.8	2.1				4.9			9.1	6.0	2.2	C		M	P						Base cracked.
66	34.150	S	OL	N		1.8						1.8			8.9		1.8	C		S	P						Core at possible shoulder seam. Full depth combination cracking.
67	34.101	TL/CO	G	N	1.0		1.8	1.7				4.5		8.1							F						Raveling.
68	4.321	TL/CO	R1	Y		1.7	2.6					4.3	10.0								G						
69	4.438	TL/CO	R1	N		1.6	2.9					4.5	11.9								G						
70	4.589	ML	R1	Y		1.4	2.8					4.2			12.3						G						
71	4.723	TL/CO	CO	Y		1.3	2.1					3.4			12.3						G						
72	4.795	TL/CO	R1	Y		1.2	2.5					3.7			12.6						M	P					Full depth combination cracking.
73	4.827	TL/CO	R1	Y		1.5	2.5					4.0			12.5						M	P					Rutting. Longitudinal cracking.
74	4.852	ML	R1	Y		1.5	1.8					3.3			9.4	13.2					F						Rutting.
75	4.874	TL/CO	CO	Y		1.5		1.4				2.9			11.2		2.9	C		M	P						Full depth combination cracking.
76	5.048	TL/CO	R1	Y		1.7						1.7			12.9						G						
77	5.070	TL/CO	CO	N		1.3		1.8				3.1			10.4						S	P					Debonding at 2.5 inches.
78	5.081	TL/CO	L1	Y		1.1		2.7				3.8			9.0						M	P					

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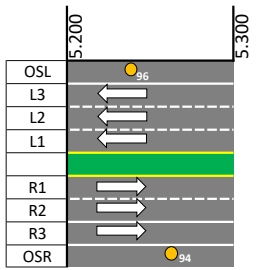
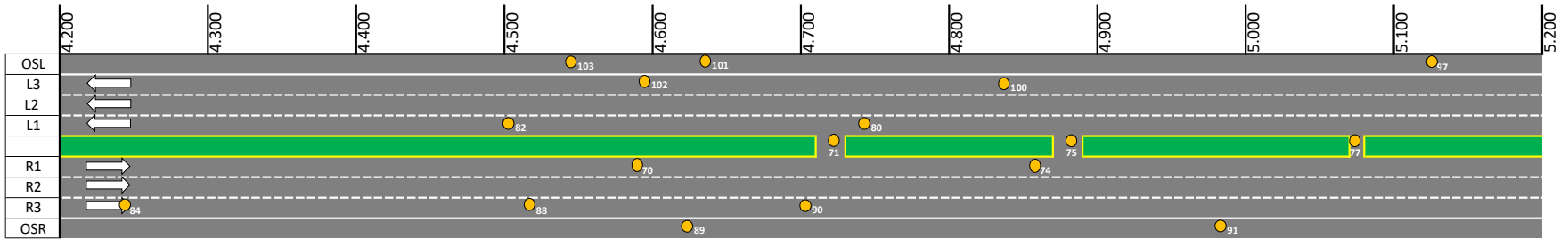
**All Cores**

CORE NO.	MILE POST <sup>2</sup>	LANE TYPE	LANE	WP (Y/N)	PAVEMENT LAYER (IN.)								TOTAL ASPHALT THICKNESS (IN.)	BASE				CRACK				PAVEMENT CONDITION	RUT DEPTH - LWP (IN.)	RUT DEPTH - RWP (IN.)	CROSS SLOPE (%)	COMMENTS			
					FC5	FC9.5	SP1C	S	BIND							LR	ABC-1	SHEL	CONC	STABILIZED SUBGRADE <sup>3</sup>	DEPTH (IN.)						TYPE	CLASS	EXTENT
79	4.768	TL/CO	L1	Y		1.3	1.3	2.0					4.6			11.4					4.6	C		S	P				Full depth combination cracking.
80	4.739	ML	L1	N		1.0	1.5	1.5					4.0			11.2					2.5	C		M	F				
81	4.520	TL/CO	L1	N		1.3		2.3					3.6	11.2										G					Widening crack at bottom of core.
82	4.502	ML	L1	Y		1.3	1.0	1.9					4.2	10.7							4.2			S	P				Full depth longitudinal cracking.
83	4.420	TL/CO	L1	N		1.9	1.9						3.8	16.3										F					Early signs of debonding at 1.90 inches. Light raveling.
84	4.244	ML	R3	N		1.0	2.7						3.7		11.5		10.3	3.7					M	P					Full depth longitudinal cracking. Debonding at 1.75 inches.
85	4.335	SS	R3	Y		1.0	1.6	1.5					4.1		10.1									F					Raveling.
86	4.457	TL/CO	R3	Y		1.1	3.3						4.4		9.3			2.0	C				M	F					Longitudinal cracking.
87	4.468	SS	R3	Y		1.2	2.6						3.8		12.2									F					Raveling.
88	4.513	ML	R3	Y		1.0	2.5						3.5		10.5									G					Raveling.
89	4.620	S	OR	N		1.2		1.2					2.4		5.1									G					Possible roadway seam.
90	4.706	ML	R3	Y		1.4		2.4					3.8		11.2						3.0			S	P				Rutting and longitudinal cracking.
91	4.989	S	OR	N		1.6		0.6					2.2		5.6									G					
92	5.065	SS	R2	Y		1.6		2.1					3.7		9.4									G					Light raveling and drag marks.
93	5.246	TL/CO	R1	Y		1.2	1.8						3.0		11.3						3.0	C		M	P				Full depth combination cracking.
94	5.261	S	OR	N		1.4	1.6	2.0					5.0		10.0									G					
95	5.275	SS	R1	N		1.0	2.0	2.8					5.8		10.4						3.0	C		S	P				Chunk of core missing due to cracking.






**PAVEMENT CORING LAYOUT: MAINLINE & SHOULDERS - SR 72 from MP 4.245 - 5.296**  
 FPN 201277-3

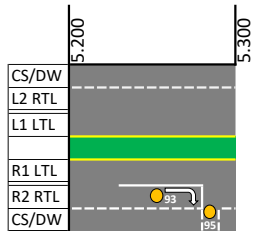
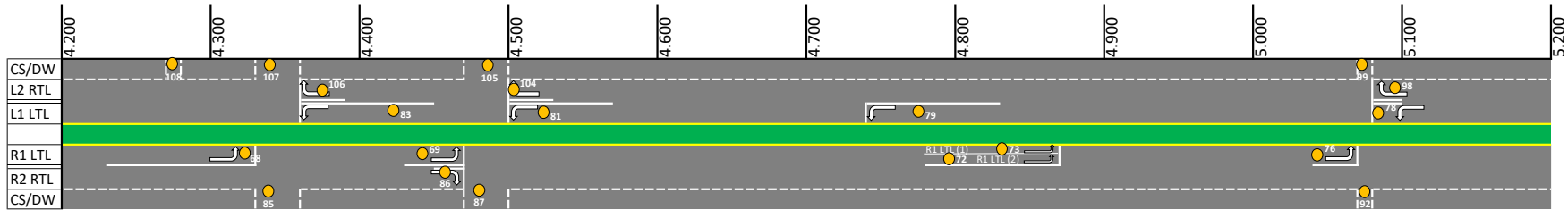


**NOTES**  
 NOT TO SCALE  
 MILEPOSTS ARE APPROXIMATE  
 REFER TO PECCD TABLES FOR ADDITIONAL LOCATION DATA

Coring Layout does not include FDOT  
 cores taken in 05/2018



PAVEMENT CORING LAYOUT: TURN LANES & SIDESTREETS - SR 72 from MP 4.245 - 5.296  
FPN 201277-3



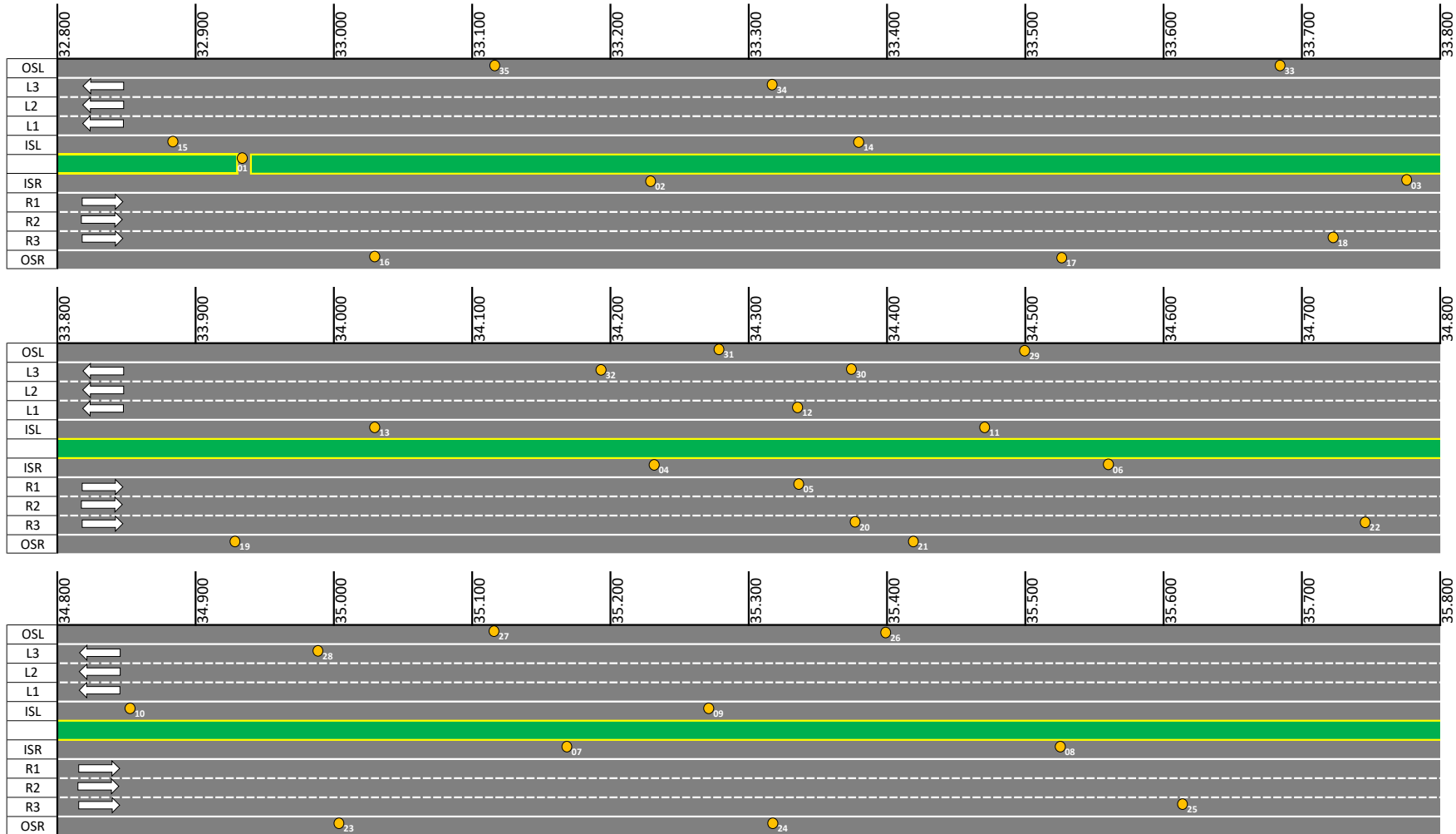
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PAVEMENT CORING LAYOUT: MAINLINE & SHOULDERS - SR I-75 from MP 32.880 - 35.708  
FPN 201277-3



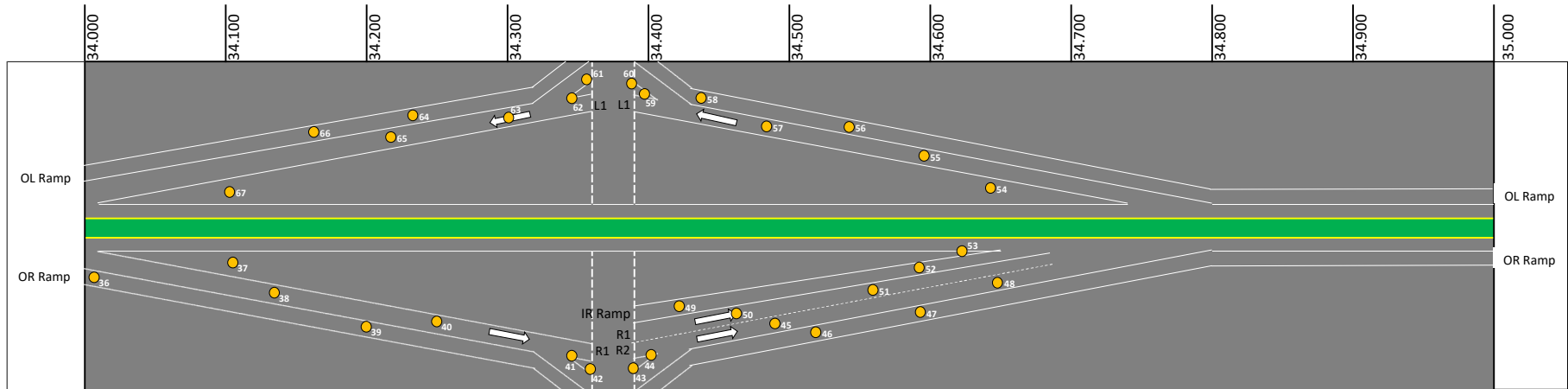
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PAVEMENT CORING LAYOUT: RAMPS - I-75 at SR 72 (Clark Road) Interchange  
FPN 201277-3



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cores taken in 05/2018