



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/20/2021

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape (PW-700)

LOCATION: Detroit, MI

GAUGE NUMBER: 37877

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Cadillac Asphalt

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Sunny

TEST PERFORMED ON:		☒ WEARING COURSE (WC)	☒ LEVELING COURSE (LC)	☐ BASE COURSE (BC)	☐ OTHER									
STRUCTURE: Mainline														
TEST			WET DENSITY		MOISTURE		DENSITY		TEST LOCATION					
ORIG.	RETEST	DEPT H	DENSITY COUNTS	WET DENSITY	MOIST. COUNTS	MOIST.	MOIST.	MAX DENSITY	COMPACT.	STATIONING/LOCATION	OFFSET OF CL (FT)		COURSE	
		INCH	DC	PCF	MC	PCF	%	PCF	%		LEFT	RIGHT		
1		BS	525	145.6	113	7.8	5.7	154.6	94.1	Remarks			LC	
2		BS	523	145.8	124	8.7	6.3	154.6	94.3	Remarks			LC	
3		BS	537	143.9	132	9.4	7	154.6	93.1	Remarks			LC	
4		BS	542	143.3	119	8.3	6.1	154.6	92.7	Remarks			LC	
5		BS	550	142.3	120	8.4	6.2	154.4	92.2	Remarks			WC	
6		BS	551	142.2	115	8	5.9	154.4	92.1	Remarks			WC	
7		BS	534	144.4	113	7.8	5.7	154.4	93.5	Remarks			WC	
8		BS	530	144.9	109	7.5	5.4	154.4	93.9	Remarks			WC	
9		BS	541	143.5	109	7.5	5.5	154.4	92.9	Remarks			WC	
10		BS	546	142.9	105	7.1	5.3	154.4	92.5	Remarks			WC	
MAXIMUM DETERMINATION (LAB)										PRESCALE				
NOTE: Gmb to Marshall conversion is $Gmb * 62.4 (PCF) = MARSHALL (PCF)$										16		16		
NOTE: Gmm to TMD conversion is $Gmm * 62.4 (PCF) = TMD (PCF)$										DENSITY		MOISTURE		
MAXIMUM WET DENSITY BY:			MARSHALL/Gmb 95.0%			X		TMD/Gmm 92.0% - 96.0%			DENSITY		MOISTURE	
			TMD/Gmm 92.0% - 97.0%					TMD/Gmm 92.0% - 98.0%			READING 1		2096 709	
REMARKS:										READING 2		2088 722		
No stationing Provided. All test were taken on Kercheval St. between Van Dyke & Parker St.										READING 3		2096 720		
										READING 4		2099 721		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2098		721		
SOMAT FIELD REPRESENTATIVE:					Jose A. Rodriguez					DATE:		7/20/2021		
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE:		7/21/2022		

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