



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 005 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/9/2021

JOB NUMBER: 2020073D (PW-7017)

PROJECT NAME: Grand Parklet Streetscape

LOCATION: Detroit, MI

GAUGE NUMBER: 15829

CLIENT: WSP

OWNER: City of Detroit

CONTRACTOR: Summerset Paving

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: mostly sunny

TEST PERFORMED ON:		x	WEARING COURSE (WC)		x	LEVELING COURSE (LC)			BASE COURSE (BC)			OTHER		
STRUCTURE: Mainline of Puritan between Grand river and Evergreen														
TEST			WET DENSITY		MOISTURE			DENSITY		TEST LOCATION				
ORIG.	RETEST	DEPTH	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	517	142.5	136	9.4	7.1	154.3	92.3	42.4079122, -83.2373571			LC	
2		BS	498	145.1	119	8.1	5.9	154.3	94	42.4080288, -83.2366380			LC	
3		BS	512	143.2	125	8.6	6.3	154.3	92.8	42.4079053, -83.2371322			LC	
4		BS	476	148	128	8.8	6.3	154.8	95.6	42.4078122, -83.2373806			WC	
5		BS	496	145.3	120	8.2	5.9	154.8	93.9	42.4079112, -83.2370473			WC	
6		BS	517	142.6	115	7.8	5.7	154.8	92.1	42.4080028, -83.2366165			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%				TMD/Gmm 92.0% - 96.0%			DENSITY		MOISTURE	
			x	TMD/Gmm 92.0% - 97.0%				TMD/Gmm 92.0% - 98.0%			READING 1		1873 738	
REMARKS:										READING 2		1875 749		
LC 4E3 (cadillac 53139) WC 5E3 (Cadillac 53637)										READING 3		1862 738		
										READING 4		1863 735		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										1858		738		
SOMAT FIELD REPRESENTATIVE:					Robert Clark					DATE:		7/9/2021		
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE:		7/10/2021		

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