



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 10/20/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape (PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 19298

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Cadillac Asphalt

PROJECT ENGINEER: Alan Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:		WEARING COURSE (WC)	X	LEVELING COURSE (LC)		BASE COURSE (BC)		OTHER					
STRUCTURE: Street Approaches on NB side of Kercheval from St. Jean to Van Dyke.													
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	456	148.3	112	9.1	6.5	155	95.7	138+50	35		BL
2		BS	480	143.9	107	8.6	6.4	155	92.8	136+00	32		BL
3		BS	449	149.7	104	8.3	5.9	155	96.6	133+05	40		BL
4		BS	447	150.2	90	7	4.9	155	96.9	130+00	44		BL
5		BS	456	148.3	119	9.7	7	155	95.7	126+50	43		BL
6		BS	454	148.8	81	6.2	4.3	155	96	122+60	37		BL
7		BS	451	149.4	95	7.5	5.3	155	96.4	119+00	33		BL
8		BS	457	148.2	99	7.9	5.6	155	95.6	115+75	41		BL
9		BS	463	146.9	122	10	7.3	155	94.8	112+15	39		BL
10		BS	467	146.2	128	10.6	7.8	155	94.3	109+15	45		BL
11		BS	460	147.5	115	9.4	6.8	155	95.2	102+20	32		BL
MAXIMUM DETERMINATION (LAB)										PRESCALE			
NOTE: Gmb to Marshall conversion is $Gmb \times 62.4 \text{ (PCF)} = \text{MARSHALL (PCF)}$										16		16	
NOTE: Gmm to TMD conversion is $Gmm \times 62.4 \text{ (PCF)} = \text{TMD (PCF)}$										DENSITY		MOISTURE	
MAXIMUM WET DENSITY BY:			MARSHALL/Gmb 95.0%				TMD/Gmm 92.0% - 96.0%			DENSITY		MOISTURE	
			TMD/Gmm 92.0% - 97.0%				X TMD/Gmm 92.0% - 98.0%			READING 1		2071 638	
REMARKS:										READING 2		2050 639	
Material used was 4E3. TMD = 155.0										READING 3		2036 638	
										READING 4		2049 634	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										2043		639	
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE:		10/20/2020	
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE:		10/21/2020	

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