



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 10/17/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape (PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 33531

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Cadillac Asphalt

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:		WEARING COURSE (WC)		X		LEVELING COURSE (LC)		BASE COURSE (BC)		OTHER			
STRUCTURE: 2nd Lane from Burns to Harding & Both Lanes from Harding to St. Jean.													
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	458	150.7	72	5.9	4.1	155	97.2	94+00	6		BL
2		BS	458	150.6	87	7.4	5.2	155	97.2	102+00	10		BL
3		BS	470	148.8	101	8.8	6.3	155	96	109+00	15		BL
4		BS	462	150.1	64	5.1	3.5	155	96.9	116+00	12		BL
5		BS	502	144.4	86	7.3	5.3	155	93.1	122+00	14		BL
6		BS	475	148.1	92	7.9	5.6	155	95.5	125+00	20		BL
7		BS	459	150.4	95	8.2	5.7	155	97	133+00	27		BL
8		BS	493	145.6	82	6.9	5	155	93.9	141+00	25		BL
9		BS	497	145	99	8.6	6.3	155	93.5	126+00	5		BL
10		BS	488	146.2	92	7.9	5.7	155	94.3	136+00	11		BL
11		BS	480	147.4	78	6.5	4.6	155	95.1	142+00	16		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		1900 595	
REMARKS:										READING 2		1915 600	
Material used was 4E3. TMD = 155.0										READING 3		1902 597	
										READING 4		1918 599	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										1923		599	
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE: 10/17/2020			
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE: 10/18/2020			

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