



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 6/25/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape (PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 2408

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: Mainline Leveling Course on Kercheval.													
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	826	144.1	62	8.7	6.4	155	92.9	128+00		23.00	BB
2		BS	809	145.6	66	9.3	6.8	155	93.9	137+00		25.00	BB
3		BS	808	145.7	70	9.9	7.3	155	94	12+00		12.00	BB
4		BS	771	149.5	51	6.9	4.9	155	96.4	22+00		15.00	BB
5		BS	815	145.1	63	8.8	6.5	155	93.6	30+00		20.00	BB
6		BS	774	149.2	51	6.9	4.9	155	96.2	40+00		12.00	BB
7		BS	807	146	48	6.5	4.6	155	94.2	47+00		18.00	BB
8		BS	797	146.8	57	7.9	5.7	155	94.7	13+50		5.00	BB
9		BS	791	147.5	49	6.6	4.7	155	95.1	22+00		2.00	BB
10		BS	800	146.6	52	7.1	5.1	155	94.6	32+00		8.00	BB
11		BS	796	146.9	55	7.6	5.4	155	94.8	40+00		4.00	BB
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		2840 388	
REMARKS:										READING 2		2847 388	
Mix used was 4E3. TMD = 155.0										READING 3		2835 389	
										READING 4		2844 389	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										2829		388	
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE: 6/25/2020			
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE: 6/26/2020			

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