



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 6/24/2020

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	812	145.9	41	5.3	3.8	155	94.2	66+00		12.00	BB
2		BS	807	146.3	60	8.3	6	155	94.4	74+00		20.00	BB
3		BS	821	145	55	7.5	5.5	155	93.5	84+00		25.00	BB
4		BS	819	145.2	52	7.1	5.1	155	93.7	94+00		15.00	BB
5		BS	822	144.9	60	8.3	6.1	155	93.5	100+00		12.00	BB
6		BS	825	144.5	64	8.9	6.6	155	93.3	105+00		18.00	BB
7		BS	821	145	59	8.2	6	155	93.5	110+00		23.00	BB
8		BS	801	146.8	65	9.1	6.6	155	94.7	120+00		20.00	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		394	
REMARKS:										READING 2		388	
Mix used was 4E3. TMD = 155.0										READING 3		388	
										READING 4		389	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										2844		389	
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE: 6/24/2020			
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE: 6/25/2020			

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