



Somat Engineering, Inc.

26445 Northline Rd, Taylor, MI 48180
Tel: 734-946-4966 Fax: 734-946-1147

ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 6/26/2020

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	791	147.9	47	6.3	4.5	155	95.4	45+00		3.00	BB
2		BS	820	145.2	44	5.8	4.2	155	93.7	66+00		2.00	BB
3		BS	823	144.9	48	6.5	4.7	155	93.5	75+00		5.00	BB
4		BS	813	145.7	58	8.1	5.8	155	94	85+00		6.00	BB
5		BS	824	144.8	48	6.5	4.7	155	93.4	95+00		8.00	BB
6		BS	793	147.7	48	6.5	4.6	155	95.3	102+00		4.00	BB
7		BS	811	145.9	57	7.9	5.7	155	94.1	110+00		7.00	BB
8		BS	804	146.7	46	6.2	4.4	155	94.6	120+00		2.00	BB
9		BS	764	150.6	50	6.8	4.7	155	97.2	130+00		3.00	BB
10		BS	773	149.7	48	6.5	4.5	155	96.6	138+00		5.00	BB
11		BS	758	151.2	51	7	4.8	155	97.6	58+00		15.00	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 Contractor skipped a section of pavement between test 1 & 2. Test 11 was for approach at Van Dyke Intersection.										READING 3		2835 389	
										READING 4		2844 389	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										2845		387	
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE: 6/26/2020			
SOMAT PROJECT MANAGER(S):					Steve Drummond, P.E.					DATE: 6/29/2020			

*All results noted in this report relate only to items inspected or tested by Somat Engineering, Inc. and/or Somat Engineering of Ohio, Inc. (Somat). This report shall not be reproduced, except in full, without the prior written approval of Somat.