



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 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 10/8/2020

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: Kercheval from Mt. Elliot to E. Grand Blvd.													
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	470	148.9	106	9.3	6.7	155	96	13+80	26		BL
2		BS	472	148.5	115	10.2	7.4	155	95.8	17+00	15		BL
3		BS	502	144.4	102	8.9	6.6	155	93.2	17+70	32		BL
4		BS	468	149.2	104	9.1	6.5	155	96.2	21+75	30		BL
5		BS	494	145.4	120	10.7	8	155	93.8	25+50	31		BL
6		BS	491	145.9	103	9	6.6	155	94.1	28+60	33		BL
7		BS	466	149.6	84	7.1	5	155	96.5	27+00	16		BL
8		BS	471	148.8	97	8.4	6	155	96	31+50	34		BL
9		BS	471	148.9	71	5.8	4.1	155	96.1	19+50	7		BL
10		BS	482	147.3	74	6.1	4.3	155	95	28+00	10		BL
11		BS	472	148.6	96	8.3	5.9	155	95.9	34+00	4		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		601	
REMARKS:										READING 2		600	
TMD is 155.0 Mix used was 4E3.										READING 3		600	
										READING 4		604	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										1927		595	
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE: 10/8/2020			
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE: 10/9/2020			

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