



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 2 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 10/20/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape (PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 19298

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Cadillac Asphalt

PROJECT ENGINEER: Alan Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:			WEARING COURSE (WC)		X		LEVELING COURSE (LC)		BASE COURSE (BC)		OTHER			
STRUCTURE: Street Approaches on NB side of Kercheval from St. Jean to Van Dyke.														
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		
12		BS	439	151.7	113	9.2	6.4	155	97.9	95+00	38		BL	
13		BS	483	143.4	104	8.3	6.2	155	92.5	92+25	35		BL	
14		BS	451	149.3	101	8	5.7	155	96.3	89+20	40		BL	
15		BS	476	144.6	103	8.2	6	155	93.3	86+10	33		BL	
16		BS	465	146.6	108	8.7	6.3	155	94.6	83+00	31		BL	
17		BS	459	147.8	100	8	5.7	155	95.4	78+85	32		BL	
18		BS	471	145.5	103	8.2	6	155	93.9	75+15	35		BL	
19		BS	439	151.8	92	7.2	5	155	97.9	70+75	37		BL	
20		BS	458	148.1	82	6.3	4.4	155	95.5	66+50	34		BL	
21		BS	476	144.7	83	6.4	4.6	155	93.4	64+00	38		BL	
22		BS	446	150.1	161	13.7	10	155	96.9	44+50	36		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		2071 638	
REMARKS:										READING 2		2050 639		
Material used was 4E3. TMD = 155.0										READING 3		2036 638		
										READING 4		2049 634		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2043		639		
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE:		10/20/2020		
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE:		10/21/2020		

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