



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 12/2/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape (PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 2131

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Cadillac Asphalt

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:		X	WEARING COURSE (WC)			LEVELING COURSE (LC)			BASE COURSE (BC)			OTHER		
STRUCTURE: SB Mainline 2 Lanes from Garland to St. Jean.														
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	755	147	55	7.6	5.4	154.4	95.2	119+00		10.00	WC	
2		BS	769	145.7	50	6.8	4.9	154.4	94.3	128+00		9.00	WC	
3		BS	744	148.1	49	6.6	4.7	154.4	95.9	138+00		6.00	WC	
4		BS	783	144.3	56	7.7	5.7	154.4	93.5	73+00		27.00	WC	
5		BS	780	144.6	55	7.6	5.5	154.4	93.7	104+00		30.00	WC	
6		BS	805	142.2	64	9	6.7	154.4	92.1	114+00		28.00	WC	
7		BS	772	145.3	68	9.6	7.1	154.4	94.1	117+45		27.00	WC	
8		BS	803	142.4	65	9.1	6.9	154.4	92.2	120+60		28.00	WC	
9		BS	762	146.3	54	7.4	5.3	154.4	94.8	124+70		29.00	WC	
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		381		
REMARKS:										READING 2		384		
Material used was 5E3. TMD = 154.4										READING 3		385		
										READING 4		386		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2731		386		
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE:		12/2/2020		
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE:		12/3/2020		

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