



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: 11/29/2020

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: 2 Right Lanes from Hibbard to St. Jean. Far Right Lane from Burns to Garland.														
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	766	146.1	55	7.6	5.5	154.4	94.6	95+25	-	-	WC	
2		BS	766	146.1	44	5.8	4.2	154.4	94.7	105+00	-	-	WC	
3		BS	724	150.2	54	7.4	5.2	154.4	97.3	115+00		5.00	WC	
4		BS	760	146.7	43	5.7	4	154.4	95	124+00		7.00	WC	
5		BS	741	148.6	43	5.7	4	154.4	96.2	134+00		4.00	WC	
6		BS	792	143.7	48	6.5	4.7	154.4	93.1	83+00		13.00	WC	
7		BS	721	150.5	49	6.6	4.6	154.4	97.5	92+00		15.00	WC	
8		BS	742	148.4	48	6.5	4.5	154.4	96.1	102+00		20.00	WC	
9		BS	729	149.7	49	6.6	4.6	154.4	97	112+00		22.00	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		2726 386		
REMARKS:										READING 2		2730 381		
Material used was 5E3. TMD = 154.4										READING 3		2744 384		
										READING 4		2728 385		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2736		386		
SOMAT FIELD REPRESENTATIVE:					Cody Cervelli					DATE:		11/29/2020		
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE:		11/30/2020		

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