



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 202 SHEET: 1 OF 1

ASPHALT DENSITY DETERMINATION REPORT

DATE: 11/20/2020

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: Mainline Paving 2 Lanes on Kercheval from St. Clair to St. Jean & Parker to Burns.														
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	767	146.4	50	6.8	4.9	154.4	94.8	123+00	29		WC	
2		BS	765	146.5	55	7.6	5.5	154.4	94.9	132+50	25		WC	
3		BS	741	149	41	5.4	3.8	154.4	96.5	138+50	26		WC	
4		BS	725	150.5	52	7.2	5	154.4	97.5	135+00	12		WC	
5		BS	718	151.3	41	5.4	3.7	154.4	98	71+00	-	-	WC	
6		BS	756	147.5	44	5.9	4.2	154.4	95.5	78+50	-	-	WC	
7		BS	729	150.2	40	5.2	3.6	154.4	97.3	86+50		2.00	WC	
8		BS	767	146.3	56	7.8	5.6	154.4	94.8	66+50		15.00	WC	
9		BS	779	145.2	53	7.3	5.3	154.4	94	73+00		14.00	WC	

MAXIMUM DETERMINATION (LAB)					PRESCALE			
NOTE: Gmb to Marshall conversion is $Gmb \times 62.4 \text{ (PCF)} = \text{MARSHALL (PCF)}$					16			
NOTE: Gmm to TMD conversion is $Gmm \times 62.4 \text{ (PCF)} = \text{TMD (PCF)}$					16			
MAXIMUM WET DENSITY BY:		MARSHALL/Gmb 95.0%		TMD/Gmm 92.0% - 96.0%		DENSITY		
		TMD/Gmm 92.0% - 97.0%		X TMD/Gmm 92.0% - 98.0%		MOISTURE		
READING 1					2735		384	
READING 2					2732		382	
READING 3					2733		382	
READING 4					2732		379	
OPERATING STANDARDS (READING 5)								
DENSITY					2750		383	
MOISTURE								

REMARKS:		DATE:	
Material used was 5E3. TMD = 154.4		11/20/2020	
SOMAT FIELD REPRESENTATIVE: Cody Cervelli		11/21/2020	
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.			

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