



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 001 SHEET: 1 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/7/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 2127

CLIENT: CoD/WSP

OWNER: City of Detroit (CoD)

CONTRACTOR: AJAX

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: Sunny

TEST PERFORMED ON:			WEARING COURSE (WC)		LEVELING COURSE (LC)		X		BASE COURSE (BC)		OTHER		
STRUCTURE:			Mainline										
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	743	146	49	6	4.3	158.1	92.3	42.4336, -83.0340		10.00	BC
2		BS	742	146.1	50	6.2	4.4	158.1	92.4	42.4324, -83.0340		18.00	BC
3		BS	736	146.7	49	6	4.3	158.1	92.8	42.4312, -83.0339		15.00	BC
4		BS	749	145.4	46	5.6	4	158.1	92	42.4300, -83.0334		9.00	BC
5		BS	746	145.8	40	4.8	3.4	158.1	92.2	42.4288, -83.0333		16.00	BC
6		BS	733	147	51	6.3	4.5	158.1	93	42.4276, -83.0332		11.00	BC
7		BS	745	145.8	55	6.9	5	158.1	92.2	42.4266, -83.0335		8.00	BC
8		BS	720	148.3	50	6.2	4.4	158.1	93.8	42.4336, -83.0340	5		BC
9		BS	742	146.1	51	6.3	4.5	158.1	92.4	42.4323, -83.0340		3.00	BC
10		BS	711	149.2	52	6.5	4.5	158.1	94.4	42.4311, -83.0339	6		BC
11		BS	698	150.6	43	5.2	3.6	158.1	95.3	42.4299, -83.0334		2.00	BC
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	2764	417
REMARKS:										READING 2		2786	422
										READING 3		2752	423
										READING 4		2742	414
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										2763		419	
SOMAT FIELD REPRESENTATIVE:			Ryan Castillo							DATE:		7/7/2020	
SOMAT PROJECT MANAGER(s):			Steve Drummond, P.E.							DATE:		7/10/2020	

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