



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 019 SHEET: 1 OF 4

ASPHALT DENSITY DETERMINATION REPORT

DATE: 8/21/2020

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:		X	WEARING COURSE (WC)			LEVELING COURSE (LC)			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	747	145.2	49	6	4.3	156.2	93	42.3500, -83.0773		14.00	WC	
2		BS	738	146.1	50	6.1	4.4	156.2	93.5	42.3505, -83.0758		16.00	WC	
3		BS	724	147.5	55	6.9	4.9	156.2	94.4	42.3509, -83.0743		10.00	WC	
4		BS	759	144.1	49	6	4.3	156.2	92.2	42.3514, -83.0278		15.00	WC	
5		BS	717	148.2	50	6.1	4.3	156.2	94.9	42.3500, -83.0773	3		WC	
6		BS	724	147.5	54	6.7	4.8	156.2	94.4	42.3505, -83.0758		4.00	WC	
7		BS	743	145.6	57	7.1	5.2	156.2	93.2	42.3509, -83.0744	5		WC	
8		BS	722	147.7	52	6.4	4.5	156.2	94.6	42.3514, -83.0729		2.00	WC	
9		BS	744	145.4	59	7.4	5.4	156.2	93.1	42.3518, -83.0716		23.00	WC	
10		BS	735	146.3	59	7.4	5.3	156.2	93.7	42.3518, -83.0716		7.00	WC	
11		BS	700	149.9	58	7.3	5.1	156.2	96	42.3522, -83.0701		19.00	WC	
MAXIMUM DETERMINATION (LAB)										PRESCALE				
NOTE: Gmb to Marshall conversion is $Gmb * 62.4 (PCF) = MARSHALL (PCF)$										16		16		
NOTE: Gmm to TMD conversion is $Gmm * 62.4 (PCF) = TMD (PCF)$										DENSITY		MOISTURE		
MAXIMUM WET DENSITY BY:			MARSHALL/Gmb 95.0%			X		TMD/Gmm 92.0% - 96.0%			DENSITY		MOISTURE	
			TMD/Gmm 92.0% - 97.0%					TMD/Gmm 92.0% - 98.0%			READING 1		2739 418	
REMARKS:										READING 2		2747 422		
										READING 3		2733 420		
										READING 4		2755 419		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2749		422		
SOMAT FIELD REPRESENTATIVE: Ryan Castillo										DATE: 8/21/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 8/28/2020				

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