



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 013 SHEET: 1 OF 3

ASPHALT DENSITY DETERMINATION REPORT

DATE: 8/4/2020

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: Overcast

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	739	146	60	7.6	5.5	158.1	92.3	42.3501, -83.2469		13.00	BC	
2		BS	737	146.2	49	6	4.3	158.1	92.5	42.3502, -83.2452		9.00	BC	
3		BS	735	146.3	66	8.5	6.2	158.1	92.5	42.3502, -83.2435		18.00	BC	
4		BS	696	150.3	72	9.4	6.6	158.1	95.1	42.3502, -83.2419		10.00	BC	
5		BS	718	148	71	9.2	6.6	158.1	93.6	42.3503, -83.2401		15.00	BC	
6		BS	738	146.1	55	6.9	5	158.1	92.4	42.3503, -83.2384		11.00	BC	
7		BS	715	148.4	63	8.1	5.7	158.1	93.8	42.3503, -83.2367		16.00	BC	
8		BS	731	146.7	63	8.1	5.8	158.1	92.8	42.3503, -83.2350		8.00	BC	
9		BS	733	146.6	56	7.1	5.1	158.1	92.7	42.3504, -83.2333		12.00	BC	
10		BS	724	147.4	68	8.8	6.3	158.1	93.2	42.3501, -83.2469	3		BC	
11		BS	723	147.5	73	9.5	6.9	158.1	93.3	42.3501, -83.2454		5.00	BC	
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%			TMD/Gmm 92.0% - 96.0%					DENSITY		MOISTURE	
			TMD/Gmm 92.0% - 97.0%			X			TMD/Gmm 92.0% - 98.0%		READING 1		2769 416	
REMARKS:										READING 2		2737 415		
										READING 3		2750 420		
										READING 4		2747 421		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										2750		419		
SOMAT FIELD REPRESENTATIVE: Ryan Castillo										DATE: 8/4/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 8/11/2020				

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