



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 013 SHEET: 2 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	
12		BS	733	146.5	73	9.5	6.9	158.1	92.6	42.3502, -83.2440	4		BC
13		BS	722	147.6	73	9.5	6.9	158.1	93.3	42.3502, -83.2423		2.00	BC
14		BS	711	148.7	69	8.9	6.4	158.1	94.1	42.3503, -83.2406	6		BC
15		BS	703	149.6	69	8.9	6.3	158.1	94.6	42.3503, -83.2391		4.00	BC
16		BS	744	145.5	62	7.9	5.8	158.1	92	42.3503, -83.2375	5		BC
17		BS	743	145.6	58	7.3	5.3	158.1	92.1	42.3503, -83.2359		6.00	BC
18		BS	718	148.1	64	8.2	5.9	158.1	93.8	42.3503, -83.2343	2		BC
19		BS	732	146.7	57	7.2	5.2	158.1	92.8	42.3503, -83.2326		5.00	BC
20		BS	723	147.5	68	8.8	6.3	158.1	93.3	42.3501, -83.2470	14		BC
21		BS	701	149.8	65	8.3	5.9	158.1	94.8	42.3502, -83.2454	8		BC
22		BS	735	146.3	70	9.1	6.6	158.1	92.5	42.3502, -83.2438	17		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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