



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 005 SHEET: 1 OF 2

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/22/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 18353

CLIENT: CoD/WSP

OWNER: City of Detroit (CoD)

CONTRACTOR: AJAX

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: Cloudy (69-84)

TEST PERFORMED ON:		WEARING COURSE (WC)		x		LEVELING COURSE (LC)		BASE COURSE (BC)		OTHER				
STRUCTURE: 4E3 for mainline leveling course paving on Carpenter between Dequindre and Conant.														
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	370	146.4	99	9.2	6.7	158.4	92.4	2037 Carpenter	14		LC	
2		BS	353	149.8	96	8.9	6.3	158.4	94.6	2221 Carpenter	8		LC	
3		BS	370	146.3	103	9.6	7	158.4	92.4	2449 Carpenter	3		LC	
4		BS	368	146.8	96	8.9	6.4	158.4	92.7	2614 Carpenter	12		LC	
5		BS	362	148	91	8.3	6	158.4	93.4	2765 Carpenter	16		LC	
6		BS	362	147.9	99	9.2	6.6	158.4	93.4	3002 Carpenter	5		LC	
7		BS	356	149.2	97	9	6.4	158.4	94.2	Carpenter at Charest	17		LC	
8		BS	367	147	92	8.4	6.1	158.4	92.8	3427 Carpenter	10		LC	
9		BS	365	147.3	99	9.2	6.6	158.4	93	3530 Carpenter	4		LC	
10		BS	364	147.6	92	8.4	6.1	158.4	93.2	2019 Carpenter		3.00	LC	
11		BS	365	147.4	94	8.6	6.2	158.4	93	2215 Carpenter		8.00	LC	
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		1438 564	
REMARKS:										READING 2		1446 564		
										READING 3		1443 564		
										READING 4		1445 566		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										1440		564		
SOMAT FIELD REPRESENTATIVE:					Alexander Hinz					DATE: 7/22/2020				
SOMAT PROJECT MANAGER(s):					Steve Drummond, P.E.					DATE: 7/24/2020				

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