



Somat Engineering, Inc.

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ASTM D2950

REPORT NUMBER: 007 SHEET: 4 OF 4

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/24/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 15829

CLIENT: CoD/WSP

OWNER: City of Detroit (CoD)

CONTRACTOR: Ajax

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: fair

TEST PERFORMED ON:		WEARING COURSE (WC)		X		LEVELING COURSE (LC)		BASE COURSE (BC)		OTHER			
STRUCTURE:													
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	
34		BS	461	149.2	101	6.9	4.8	158.4	94.2	42.3510, - 83.0740	16		BL
35		BS	474	147.3	95	6.4	4.5	158.4	93	42.3514, - 83.0727	14		BL
36		BS	443	152	99	6.7	4.6	158.4	96	42.3523, - 83.0698	16		BL
37		BS	461	149.3	93	6.2	4.3	158.4	94.2	42.3528, - 83.0683	18		BL
38		BS	471	147.7	97	6.5	4.6	158.4	93.2	42.3531, - 83.0675	13		BL
39		BS	457	149.9	93	6.2	4.3	158.4	94.6	42.3535, - 83.0661	15		BL
40		BS	476	146.9	110	7.6	5.5	158.4	92.7	42.3538, - 83.0653	14		BL
MAXIMUM DETERMINATION (LAB)										PRESCALE			
NOTE: Gmb to Marshall conversion is $Gmb * 62.4 (PCF) = MARSHALL (PCF)$										16			
NOTE: Gmm to TMD conversion is $Gmm * 62.4 (PCF) = TMD (PCF)$										16			
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		702		
REMARKS:										READING 2		704	
										READING 3		701	
										READING 4		704	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										1843		711	
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE: 7/24/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 7/30/2020			

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