

**ASPHALT DENSITY
DETERMINATION REPORT**

DATE: 7/17/2020

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)		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		
12		BS	477	146.3	119	8.5	6.1	158.1	92.5	42.3583, - 83.1055	4		BL	
13		BS	473	147	81	5.2	3.7	158.1	93	42.3583, - 83.1055		10.00	BL	
14		BS	480	145.8	128	9.2	6.8	158.1	92.2	42.3584, - 83.1056		5.00	BL	
15		BS	459	149.1	99	6.8	4.8	158.1	94.3	42.3570, - 83.1088	6		BL	
16		BS	469	147.5	101	7	4.9	158.1	93.3	42.3570, - 83.1088 approach		9.00	BL	
17		BS	469	147.6	93	6.3	4.4	158.1	93.3	42.3570, - 83.1088	3		BL	
18		BS	478	146.2	110	7.7	5.6	158.1	92.5	42.3572, - 83.1089 approach		4.00	BL	
19		BS	456	149.4	129	9.3	6.6	158.1	94.5	42.3593, - 83.1022 approach	8		BL	
20		BS	482	145.7	119	8.5	6.2	158.1	92.1	42.3595, - 83.1029		5.00	BL	
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%				TMD/Gmm 92.0% - 98.0%							
REMARKS:										READING 1	1836	702		
Brought samples back to Somat. A 4E3 with a TMD of 158.1. On Monroe between Chrysler & ST. Antoine. Only tested 3 approachments. 16, 18, & 19.										READING 2	1832	702		
										READING 3	1837	702		
										READING 4	1835	699		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										1831	704			
SOMAT FIELD REPRESENTATIVE: Garrett Hineman					DATE: 7/17/2020									
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.					DATE: 7/24/2020									

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