

**ASPHALT DENSITY
DETERMINATION REPORT**

DATE: 8/5/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 26254

CLIENT: CoD/WSP

OWNER: City of Detroit (CoD)

CONTRACTOR: AJAX

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: Sunny (60-76)

TEST PERFORMED ON:		WEARING COURSE (WC)		x		LEVELING COURSE (LC)		BASE COURSE (BC)		OTHER				
STRUCTURE: Leveling course for mainline roadway on Tireman from Minock to Southfield Service Drive.														
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	494	146.5	107	8.2	5.9	158.1	92.6	19449 Tireman		12.00	LC	
2		BS	487	147.4	104	7.9	5.7	158.1	93.3	19411 Tireman		18.00	LC	
3		BS	496	146.2	113	8.8	6.4	158.1	92.4	Tireman at Grandville		15.00	LC	
4		BS	492	146.8	93	6.9	5	158.1	92.9	19119 Tireman		16.00	LC	
5		BS	495	146.3	106	8.1	5.9	158.1	92.6	Tireman at Artesian		14.00	LC	
6		BS	493	146.6	114	8.9	6.4	158.1	92.7	18710 Tireman		19.00	LC	
7		BS	485	147.7	116	9	6.5	158.1	93.4	Tireman at Greenview		11.00	LC	
8		BS	498	145.9	110	8.5	6.2	158.1	92.3	Tireman at Penrod		14.00	LC	
9		BS	491	147	81	5.8	4.1	158.1	93	Tireman at Rosemont		17.00	LC	
10		BS	480	148.5	87	6.4	4.5	158.1	93.9	Tireman at Southfield		9.00	LC	
11		BS	495	146.4	96	7.2	5.2	158.1	92.6	Tireman at Minock	0	0.00	LC	
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		1864 674	
REMARKS:										READING 2		1861 675		
										READING 3		1855 674		
										READING 4		1874 670		
										OPERATING STANDARDS (READING 5)				
										DENSITY		MOISTURE		
										1864		675		
SOMAT FIELD REPRESENTATIVE: Alexander Hinz										DATE: 8/5/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE: 8/11/2020				

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