

**ASPHALT DENSITY
DETERMINATION REPORT**

DATE: 9/2/2020

JOB NUMBER: 2020073E (PW-7018)

PROJECT NAME: HMA Mill & Resurfacing 2020

LOCATION: Detroit, MI

GAUGE NUMBER: 10959

CLIENT: CoD/WSP

OWNER: City of Detroit (CoD)

CONTRACTOR: Ajax

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: Fair

TEST PERFORMED ON:		X	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			
9/2/2020	22	BS	530	146.4	91	7.6	5.5	156.6	93.5	42.4278, - 83.1608		8.00	BT		
23		BS	497	150.5	99	8.4	5.9	156.6	96.1	42.4296, - 83.1608	4		BT		
24		BS	537	145.6	85	7	5.1	156.6	93	42.4296, - 83.1608	5		BT		
25		BS	532	146.2	88	7.3	5.3	156.6	93.3	42.4296, - 83.1609		6.00	BT		
26		BS	491	151.3	90	7.5	5.2	156.6	96.6	42.4278, - 83.1609	8		BT		
27		BS	514	148.4	92	7.7	5.5	156.6	94.7	42.4278, - 83.1609	6		BT		
28		BS	537	145.7	78	6.3	4.5	156.6	93	42.4260, - 83.1608		7.00	BT		
29		BS	527	146.8	97	8.2	5.9	156.6	93.7	42.4242, - 83.1607	8		BT		
30		BS	567	142.1	79	6.4	4.7	156.6	90.7	42.4242, - 83.1608		10.00	BT		
9/2/2020	30	BS	528	146.7	93	7.8	5.6	156.6	93.6	42.4242, - 83.1608		8.00	BT		
MAXIMUM DETERMINATION (LAB)															
NOTE: Gmb to Marshall conversion is $Gmb * 62.4 (PCF) = MARSHALL (PCF)$										PRESCALE					
NOTE: Gmm to TMD conversion is $Gmm * 62.4 (PCF) = TMD (PCF)$										16		16			
										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%					2131		591		
REMARKS:										READING 1					
MIX 5E3. Tests #22 through #30 were done on approachments.										READING 2		2177		593	
										READING 3		2139		598	
										READING 4		2169		588	
										OPERATING STANDARDS (READING 5)					
										DENSITY		MOISTURE			
										2160		592			
SOMAT FIELD REPRESENTATIVE: Garrett Hineman										DATE:		9/2/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.										DATE:		9/4/2020			

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