

ASPHALT DENSITY DETERMINATION REPORT

DATE: 7/2/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape (PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 11106

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Cadillac Asphalt

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:			WEARING COURSE (WC)		X	LEVELING COURSE (LC)			BASE COURSE (BC)			OTHER	
STRUCTURE:		Two Lanes on Kercheval right after Van Dyke.											
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	434	142.6	111	8.7	6.5	155	92	50+00		23.00	BB
2		BS	402	147.5	100	7.7	5.5	155	95.2	56+00		25.00	BB
3		BS	406	146.9	94	7.1	5.1	155	94.8	49+00		15.00	BB
4		BS	421	144.6	90	6.8	4.9	155	93.3	55+00		13.00	BB
MAXIMUM DETERMINATION (LAB)										PRESCALE			
NOTE: Gmb to Marshall conversion is $Gmb * 62.4 \text{ (PCF)} = \text{MARSHALL (PCF)}$										16		16	
NOTE: Gmm to TMD conversion is $Gmm * 62.4 \text{ (PCF)} = \text{TMD (PCF)}$										DENSITY		MOISTURE	
MAXIMUM WET DENSITY BY:				MARSHALL/Gmb 95.0%				TMD/Gmm 92.0% - 96.0%			READING 1	1800	673
				TMD/Gmm 92.0% - 97.0%			X	TMD/Gmm 92.0% - 98.0%					
REMARKS:										READING 2	1803	672	
TMD is 155.0 Mix used was 4E3.										READING 3	1814	670	
										READING 4	1813	674	
										OPERATING STANDARDS (READING 5)			
										DENSITY		MOISTURE	
										1800		666	
SOMAT FIELD REPRESENTATIVE:				Cody Cervelli						DATE:		7/2/2020	
SOMAT PROJECT MANAGER(s):				Steve Drummond, P.E.						DATE:		7/27/2020	