

**DENSITY & MOISTURE
DETERMINATION REPORT**

DATE: 11/24/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape(PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 2131

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Major Cement

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:		SUBGRADE	SUBBASE	X	AGGREGATE BASE	BACKFILL	OTHER							
STRUCTURE: Recycled Crushed Concrete for Concrete Islands on NB side of Kercheval & Townsend.														
TEST			WET DENSITY		MOISTURE			DRY DENSITY			TEST LOCATION			
ORIG.	RETEST	DEPTH	DENSITY COUNTS	WET DENSITY	MOIST. COUNTS	MOIST.	MOIST.	DRY DENSITY	MAX DENSITY	COMPACT.	STATIONING/LOCATION	OFFSET OF CL (FT)		DBG (FT)
		INCH	DC	PCF	MC	PCF	%	PCF	PCF	%		LEFT	RIGHT	
1		6	2378	128.9	83	12.0	10.3		133.9	96.3	46+75	12.0		0.5
2		6	2300	130.5	91	13.3	11.4		133.9	97.4	51+00	13.0		0.5
3		6	2400	128.5	79	11.4	9.7		133.9	96.0	51+50	20.0		0.5
MAXIMUM DETERMINATION (FIELD) NOTE: To convert (g) to (lbs): Wt (g) / 453.59 = Wt. (lbs)											STANDARDIZATION			
TEST #	MOIST. %	MOLD VOL. (CFT)	WET SOIL + MOLD (g)	MOLD (g)	WET SOIL (g)	WET SOIL (lbs)	COMPACTED WET SOIL PCF	MAX DENSITY	OPTIMUM MOIST. %	MATERIAL	READING 1	DENSITY	MOISTURE	
1	10.3	0.0333	4195	2172	2023	4.46	133.9	133.9	8.8-11.8	Recycled Stone	READING 2	2750	383	
											READING 3	2726	383	
											READING 4	2730	381	
											OPERATING STANDARD (READING 5)			
											DENSITY		MOISTURE	
											2744		384	
MIN. COMPACTION REQUIRED:				100.0%		98.0%		X	95.0%	90.0%		OTHER		
MAXIMUM DRY DENSITY BY:				MICH. CONE		D1557		T-99		X	T-180		OTHER	
REMARKS:														
SOMAT FIELD REPRESENTATIVE: Cody Cervelli											DATE: 11/24/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.											DATE: 11/25/2020			

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