

**DENSITY & MOISTURE
DETERMINATION REPORT**

DATE: 12/3/2020

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	2228	131.5	100	14.9	12.8		135.3	97.2	43+90	10.0		0.5
2		6	2276	130.5	103	15.4	13.4		135.3	96.5	43+05	55.0		0.5
3		6	2243	131.3	96	14.3	12.2		135.3	97.0	44+45	22.0		0.5
4		6	2312	129.8	95	14.1	12.2		135.3	95.9	58+00			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	12.8	0.0333	4215	2172	2043	4.50	135.3	135.3	11.3-14.3	Recycled Stone	READING 2	2728	385	
											READING 3	2736	386	
											READING 4	2731	386	
											OPERATING STANDARD (READING 5)			
											DENSITY		MOISTURE	
											2723		379	
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: 12/3/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.											DATE: 12/4/2020			

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