



REPORT NUMBER: 201 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 7/22/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape(PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 27260

CLIENT: AECOM & City of Detroit
OWNER: City of Detroit (Public Works)
CONTRACTOR: Motor City Electric
PROJECT ENGINEER: Allen Ostrowski (AECOM)
WEATHER: Clear

TEST PERFORMED ON:			SUBGRADE		X	SUBBASE		AGGREGATE BASE		BACKFILL		OTHER			
STRUCTURE:			Recycled crushed concrete for subbase.												
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		4	2180	124.0	112	8.6	7.5		125.0	99.2	45+00			37.0	0.5
2		4	2158	124.5	122	9.5	8.3		125.0	99.6	41+50			36.0	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		DENSITY	MOISTURE		
											READING 1	1781	664		
1	7.5	0.0333	4060	2172	1888	4.16	125.0	125.0	6-9	Recycled crushed	READING 2	1771	664		
											READING 3	1773	667		
											READING 4	1772	662		
											OPERATING STANDARD (READING 5)				
											DENSITY		MOISTURE		
											1759		670		
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:															
Tests were done on recycled crushed concrete for subbase															
SOMAT FIELD REPRESENTATIVE:											Cody Cervelli				
SOMAT PROJECT MANAGER(s):											Steve Drummond, P.E.				
DATE:											7/22/2020				
DATE:											7/28/2020				