



ASTM D6938

REPORT NUMBER: 201 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 7/15/2020

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: Major Construction

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:			SUBGRADE		SUBBASE		AGGREGATE BASE		X	BACKFILL		OTHER			
STRUCTURE:			Class II Sand backfill for edge drain.												
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		12	534	111.9	100	7.6	7.3	104.3	109.0	95.7	37+00		32.0	1	
2		6	2085	114.6	118	9.2	8.8	105.4	109.0	96.7	45+00		30.0	1	
3		6	2592	104.1	79	5.8	5.8	98.4	109.0	90.3	50+00		32.0	1	
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	1783	675		
1	7.3	0.0447	4245	1890	2355	5.19	116.2	109.0	15.5	Class II	READING 2	1769	677		
											READING 3	1783	670		
											READING 4	1774	666		
											OPERATING STANDARD (READING 5)				
											DENSITY	MOISTURE			
											1781	664			
MIN. COMPACTION REQUIRED:					100.0%			98.0%	X	95.0%		90.0%		OTHER	
MAXIMUM DRY DENSITY BY:				X	MICH. CONE			D1557		T-99		T-180		OTHER	
REMARKS:															
Tests were done on Class II sand backfill for edge drain. Inspector VI for any failing tests on edge drain. Section between test 2 & 3 was not done yet so need compaction when contractor puts edge drain in.															
SOMAT FIELD REPRESENTATIVE: Cody Cervelli											DATE: 7/15/2020				
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.											DATE: 7/27/2020				

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