



Somat Engineering, Inc.

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ASTM D6938

REPORT NUMBER: 201 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 6/25/2021

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape (PW 7005)

LOCATION: Detroit

GAUGE NUMBER: 15829

CLIENT: AECOM

OWNER: City of Detroit

CONTRACTOR: Major Cement

PROJECT ENGINEER: Richard Anderson

WEATHER: overcast, rainy

TEST PERFORMED ON:		SUBGRADE	SUBBASE	X	AGGREGATE BASE	BACKFILL	OTHER							
STRUCTURE: Sidewalk/curb North of Kercheval from an Dyke to Parker														
TEST		WET DENSITY		MOISTURE			DRY DENSITY			TEST LOCATION				
ORIGINAL	RETEST	DEPT H	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	2395	122.4	126	8.7	7.6	NA	129.2	94.7	42.3587733, -82.9991284	NA	NA	0.5
6/25/2021	1	4	2325	124.0	135	9.4	8.2	NA	129.2	96.0	42.3587733, -82.9991284	NA	NA	0.5
2		4	2290	124.8	153	10.8	9.5	NA	132.4	94.3	42.3585107, -82.9997704	NA	NA	0.5
6/25/2021	2	4	2142	128.3	161	11.5	9.8	NA	132.4	96.9	42.3585107, -82.9997704	NA	NA	0.5
3		4	2233	126.1	154	10.9	9.5	NA	132.4	95.2	42.3584302, -82.9998965	NA	NA	0.5
4		4	2229	126.2	150	10.6	9.2	NA	132.4	95.3	42.3587998, -82.9989721	NA	NA	0.5

MAXIMUM DETERMINATION (FIELD) NOTE: To convert (g) to (lbs): Wt (g) / 453.59 = Wt. (lbs)											STANDARDIZATION		
TEST NUMBER	MOISTURE %	MOLD VOLUME (CFT)	WET SOIL + MOLD (g)	MOLD (g)	WET SOIL (g)	WET SOIL (lbs)	COMPACTED WET SOIL PCF	MAX DENSITY	OPTIMUM MOISTURE %	MATERIAL	READING 1	DENSITY	MOISTURE
1	7.6	0.0333	4166	2214	1952	4.30	129.2	129.2	6.1-9.1	21AA	READING 2	1863	730
2	9.5	0.0333	4214	2214	2000	4.41	132.4	132.4	8.0-11.0	21AA	READING 3	1865	735
					0	0.00					READING 4	1875	736
					0	0.00					OPERATING STANDARD (READING 5)		
					0	0.00					DENSITY	MOISTURE	
					0	0.00					1884	735	

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

REMARKS:									

SOMAT FIELD REPRESENTATIVE:	Brandon Smith	DATE:	6/25/2021
SOMAT PROJECT MANAGER(s):	Steve Drummond, P.E.	DATE:	6/26/2021

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