



Somat Engineering, Inc.

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ASTM D6938

REPORT NUMBER: 003 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 6/23/2021

JOB NUMBER: 2020073D (PW-7017)

PROJECT NAME: Grand Parklet Streetscape

LOCATION: Detroit, MI

GAUGE NUMBER: 15829

CLIENT: WSP

OWNER: City of Detroit

CONTRACTOR: Major Cement

PROJECT ENGINEER: Jason Lukasik, P.E.

WEATHER: overcast, rainy

TEST PERFORMED ON:		X	SUBGRADE		SUBBASE		AGGREGATE BASE		BACKFILL		OTHER			
STRUCTURE:		Plaza Slab + Puritan Ave roadway												
TEST			WET DENSITY		MOISTURE			DRY DENSITY			TEST LOCATION			
ORIGINAL	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	2165	127.1	190	13.8	12.2	NA	139.8	90.9	42.4080197, -83.2372066	NA	NA	0.5
2		4	2319	123.5	172	12.4	11.1	NA	139.8	88.3	42.4081058, -83.2370245	NA	NA	0.75
6/23/21	2	4	1809	136.4	209	15.3	12.6	NA	139.8	97.6	42.4081058, -83.2370245	NA	NA	0.75
6/23/21	1	4	1871	134.8	196	14.3	11.9	NA	139.8	96.4	42.4080197, -83.2372066	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	12.2	0.0333	4326	2214	2112	4.66	139.8	139.8	10.7-13.7	21AA	READING 2	1869	736	
											READING 3	1873	735	
											READING 4	1863	730	
											OPERATING STANDARD (READING 5)			
											DENSITY		MOISTURE	
											1865		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		OTHER		
REMARKS:														
NA														
SOMAT FIELD REPRESENTATIVE: Brandon Smith											DATE: 6/23/2021			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.											DATE: 6/24/2021			

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