



Somat Engineering, Inc.

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ASTM D6938

REPORT NUMBER: 201 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 11/13/2019

JOB NUMBER: 2019057C (PW-7007)

PROJECT NAME: Bagley Streetscape

LOCATION: Detroit, MI

GAUGE NUMBER: 24315

CLIENT: AECOM

OWNER: City of Detroit (CED)

CONTRACTOR: Main Street

PROJECT ENGINEER: Alan Ostrowski (AECOM)

WEATHER: Cold, Overcast

TEST PERFORMED ON:			SUBGRADE	SUBBASE	X	AGGREGATE BASE	BACKFILL	OTHER						
STRUCTURE: Bagley and 24th Street Intersection.														
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		2	2075	126.3	333	30.9	32.3	95.5	122.2	78.1	10+80	3'		1.5
2		4	2253	121.3	144	12.5	11.5	108.9	119.1	91.4	11+00	17'		1.5
11/13/19	2	4	2155	124.1	77	5.9	5.0	118.2	119.1	99.2	11+00	17'		1.5
3		4	2154	124.1	80	6.2	5.3	117.9	119.1	99.0	11+13		4'	1.5
4		4	2135	124.6	82	6.4	5.4	118.2	119.1	99.2	10+60		4'	1.5
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	11.5	0.0441	4720	2068	2652	5.85	132.6	119.1	12.1	4G Limestone	READING 2	1889	603	
											READING 3	1872	599	
											READING 4	1865	606	
											OPERATING STANDARD (READING 5)			
											DENSITY		MOISTURE	
											1885		606	
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:														
TEST # 1 Max Density was already in the gauge: 122.2, 4G Limestone was frozen/oversaturated. Didn't Retest because of the frozen/oversaturated material.														
SOMAT FIELD REPRESENTATIVE: Andy Patterson											DATE: 11/13/2019			
SOMAT PROJECT MANAGER(s): Steve Drummond											DATE: 11/14/2019			

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