



Somat Engineering, Inc.

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ASTM D6938

REPORT NUMBER: 201 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 10/4/2019

JOB NUMBER: 2019057C (PW-7007)

PROJECT NAME: Bagley Streetscape

LOCATION: Detroit, MI

GAUGE NUMBER: 29944

CLIENT: AECOM

OWNER: City of Detroit (CED)

CONTRACTOR:

PROJECT ENGINEER: Alan Ostrowski (AECOM)

WEATHER: Partly Cloudy

TEST PERFORMED ON:			SUBGRADE	SUBBASE	AGGREGATE BASE	X	BACKFILL	OTHER						
STRUCTURE: 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		8	1819	111.7	112	8.8	8.6	102.9	117.0	87.9	Remarks			1.5
10/4/2019	1	8	1368	123.7	151	12.4	11.2	111.3	117.0	95.1	Remarks			1.5
2		8	1410	122.5	133	10.8	9.6	111.7	117.0	95.5	Remarks			1.5
3		8	1368	123.9	98	7.5	6.5	116.4	117.0	99.5	Remarks			1.5
4		8	1435	121.8	126	10.1	9.1	111.7	117.0	95.4	Remarks			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	8.6	0.0450	4582	2006	2576	5.68	126.2	117.0	12.8	Class 2 sand	READING 2	2007	641	
											READING 3	2007	634	
											READING 4	2007	636	
											OPERATING STANDARD (READING 5)			
											DENSITY		MOISTURE	
											1995		641	
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 & rertest- 42.3233630 / -83.0047793 Test 2- 42.3233791 -83.0847361 Test 3- 42.3233496 / -83.0846965 Test 4- 42.3233238 / -83.0847267														
SOMAT FIELD REPRESENTATIVE: Travis Brown											DATE: 10/4/2019			
SOMAT PROJECT MANAGER(s): Steve Drummond											DATE: 10/5/2019			

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