



Somat Engineering, Inc.

26445 Northline Rd, Taylor, MI 48180
Tel: 734-946-4966 Fax: 734-946-1147

ASTM D6938

REPORT NUMBER: 201 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 11/13/2020

JOB NUMBER: 2019057B

PROJECT NAME: PW-7005 Kercheval Streetscape

LOCATION: Detroit, MI

GAUGE NUMBER: 19298

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Motor City Electric

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Sunny

TEST PERFORMED ON:		SUBGRADE	SUBBASE	X	AGGREGATE BASE	BACKFILL	OTHER							
STRUCTURE: Islands on Kercheval St														
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		6	1391	130.7	142	11.9	10.0		131.4	99.5	Island @ WB Kercheval & Fischer St	15.0		0'
2		6	1501	127.2	136	11.3	9.8		131.4	96.8	Island @ WB Kercheval & Hibbard St	15.0		0'
3		4	2139	122.2	144	12.1	11.0		131.4	93.0	Island @ WB Kercheval & McClellan	15.0		1'
11/13	3	4	2038	124.9	126	10.4	9.1		131.4	95.0	Island @ WB Kercheval & McClellan	15.0		1
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	10	0.0335	4215	2218	1997	4.40	131.4	131.4	8.5-11.5	21AA RC	READING 2	2044	634	
											READING 3	2059	636	
											READING 4	2047	632	
											OPERATING STANDARD (READING 5)			
											DENSITY		MOISTURE	
											2058		636	
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:														
Material : 21 AA Recycled Crush Concrete, Inspector : Steve Szslkie (Mannik & Smith)														
SOMAT FIELD REPRESENTATIVE: Mohammed Wajed											DATE: 11/13/2020			
SOMAT PROJECT MANAGER(s): Steve Drummond, P.E.											DATE: 11/14/2020			

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