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ASTM D6938

REPORT NUMBER: 201 SHEET: 1 OF 1

DENSITY & MOISTURE DETERMINATION REPORT

DATE: 7/21/2020

JOB NUMBER: 2019057B

PROJECT NAME: Kercheval Streetscape(PW-7005)

LOCATION: Detroit, MI

GAUGE NUMBER: 27260

CLIENT: AECOM & City of Detroit

OWNER: City of Detroit (Public Works)

CONTRACTOR: Motor City Electric

PROJECT ENGINEER: Allen Ostrowski (AECOM)

WEATHER: Clear

TEST PERFORMED ON:			X	SUBGRADE			SUBBASE			AGGREGATE BASE			BACKFILL			OTHER			
STRUCTURE:			Existing sand subgrade.																
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		12	407	120.6	99	7.6	6.7	113.0	113.9	99.3	44+50				37.0	1			
2		12	406	120.7	106	8.2	7.3	112.5	113.9	98.7	42+00				34.0	1			
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		DENSITY	MOISTURE						
											READING 1	1774	666						
1	6.7	0.0447	4331	1890	2441	5.38	120.4	113.9	13.8	Existing Material	READING 2	1781	664						
											READING 3	1771	664						
											READING 4	1773	667						
											OPERATING STANDARD (READING 5)								
											DENSITY	MOISTURE							
											1772	662							
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:																			
Tests were done on Class II sand backfill for electrical.																			
SOMAT FIELD REPRESENTATIVE:				Cody Cervelli								DATE:		7/21/2020					
SOMAT PROJECT MANAGER(s):				Steve Drummond, P.E.								DATE:		7/28/2020					

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