



Concrete Cylinder Test Report

PROJECT INFO

ASTM C31, ASTM C39, AASHTO T23, AASHTO T22, ASTM C172, AASHTO R60

Client	AECOM	Date Of Placement	09/02/2020
Project Name	PW-7005 Kercheval Streetscape	Specimen Type	Concrete Cylinder
Project Number	2019057B	Contractor	Major Cement
Project Location	Detroit, MI	Concrete Supplier	McCoig Materials LLC
MDOT Job Number		Field Tested By	Cody Cervelli
MDOT Control Section		Date Issued	09/30/2020
Results Recorded In	English Units		
Supplier Mix Description	MDOT P1 S35 MR		

DESIGN PARAMETER

Mix Design Number	0795 P1-SM				
Design Compressive Strength (psi)	3500				
Air (% Max)	8.5	Slump (in Max)	6.00	Unit Weight (lbs/ft ³)	
Air (% Min)	5.5	Slump (in Min)	3.00		

TESTING DATA

Placed 55.00 +/- yds ³ /ft ³ of concrete at the following location: Sidewalks & ADA Ramps at SE + SW corners of Kercheval & E. Grand Blvd. Also various corners moving towards Van Dyke.									
Time Tested	Truck Num	Slump ASTM C143 (in)	Air ASTM C231 or C173 (%)	Unit Weight ASTM C138 (lbs/ft ³)	Air Temp (°F)	Mix Temp ASTM C1064 (°F)	Concrete Cylinder Set	Water Added (gal)	Cumulative Concrete Placed At Test (yds ³ /ft ³)
7:57 AM	840	4.75	6.40	0.0	73	80	1	0	1

MATERIAL DATA

Concrete Cylinder Set	Concrete Cylinder Num	Diameter (in)	X-Sec Area (in ²)	Weight (lbs)	Fracture Type	Capping Process	Age Of Concrete Cylinder (Days)	Date Tested	Total Load At Failure (lbs)	Cumulative Strength (psi/mpa)
1	79955	4.00	12.57	8.48	3-(Vertical)	Unbonded Cap	28	09/30/2020	54960	4370
1	79956	4.00	12.57	8.45	2-(Cone/Vertical)	Unbonded Cap	28	09/30/2020	55030	4380

Average 28 Day Compressive Strength (psi): 4375

*Cylinders tested with Unbonded Caps followed ASTM C1231, cylinders tested with Bonded Caps followed ASTM C617.

*All Air Content % tests were performed per C231 unless otherwise noted in the remarks.

*Inspector was notified of non-conformance items, if any.

*Average Compressive Strength results did meet project specifications.

Remarks:	
Results Reported To:	AECOM(Alan Ostrowski)
Report Approved By:	Matthew Johnson



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11:20 AM	413	5.00	5.50	0.0	75	80	2	0	51

MATERIAL DATA

Concrete Cylinder Set	Concrete Cylinder Num	Diameter (in)	X-Sec Area (in ²)	Weight (lbs)	Fracture Type	Capping Process	Age Of Concrete Cylinder (Days)	Date Tested	Total Load At Failure (lbs)	Cumulative Strength (psi/mpa)
2	79957	4.00	12.57	8.56	2- (Cone/Vertical)	Unbonded Cap	28	09/30/2020	66410	5280
2	79958	4.00	12.57	8.52	2- (Cone/Vertical)	Unbonded Cap	28	09/30/2020	66670	5300

Average 28 Day Compressive Strength (psi): 5290

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