



Concrete Cylinder Test Report

PROJECT INFO

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

Client	AECOM	Date Of Placement	05/21/2022
Project Name	PW-7023 Conner Improvements	Specimen Type	Concrete Cylinder
Project Number	2019057D-002	Contractor	Century Cement
Project Location	Detroit, MI	Concrete Supplier	Hercules Material Holdings, LLC
MDOT Job Number		Field Tested By	jaden Riley
MDOT Control Section		Date Issued	10/11/2022
Results Recorded In	English Units		
Supplier Mix Description	Detroit P1 6 Sack 3500 PSI W/MR		

DESIGN PARAMETER

Mix Design Number	1120 P1-DETM				
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)	0		

TESTING DATA

Placed St	33.00	+/- yds ³ /ft ³ of concrete at the following location: Sidewalk repair various locations on Connor St							
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)
7:40 AM	2116	5.50	5.60	0.0	71	75	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	88861	4.00	12.57	8.40	3-(Vertical)	Unbonded Cap	28	06/18/2022	62674	4990
1	88862	4.00	12.57	8.34	3-(Vertical)	Unbonded Cap	28	06/18/2022	64730	5150

Average 28 Day Compressive Strength (psi): 5070

*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:	Mohammed Wajed