



Concrete Cylinder Test Report

PROJECT INFO

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

Client	WSP	Date Of Placement	08/10/2020
Project Name	PW-7018 HMA Mill & Resurfacing 2020	Specimen Type	Concrete Cylinder
Project Number	2020073E	Contractor	merlo
Project Location	Detroit, MI	Concrete Supplier	McCoig
MDOT Job Number		Field Tested By	Robert Clark
MDOT Control Section		Date Issued	09/08/2020
Results Recorded In	English Units		
Supplier Mix Description	MDOT P1 + MR - 6" Slump		

DESIGN PARAMETER

Mix Design Number	0781 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)	3.00		

TESTING DATA

Placed 33.01 +/- yds ³ /ft ³ of concrete at the following location: Sidewalks on Tireman starting at Greenview going towards Spinoza									
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)
11:15 AM	4831	4.00	7.60	0.0	84	85	1	0	3

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	79416	4.00	12.57	8.29	2- (Cone/Vertical)	Unbonded Cap	28	09/07/2020	41380	3290
1	79417	4.00	12.57	8.30	2- (Cone/Vertical)	Unbonded Cap	28	09/07/2020	42230	3360

Average 28 Day Compressive Strength (psi): 3325

*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 not meet project specifications.

Remarks:	
Results Reported To:	WSP(Jason Lukasik, P.E.)
Report Approved By:	Matthew Johnson