



Concrete Cylinder Test Report

PROJECT INFO

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

Client	WSP	Date Of Placement	07/01/2021
Project Name	PW-7017 Grand Parklet Streetscape	Specimen Type	Concrete Cylinder
Project Number	2020073D	Contractor	Major Cement
Project Location	Detroit, MI	Concrete Supplier	SRM Concrete
MDOT Job Number		Field Tested By	Reid Geloneck
MDOT Control Section		Date Issued	07/29/2021

Results Recorded In	English Units
Supplier Mix Description	MDOT S1 S35 MR

DESIGN PARAMETER

Mix Design Number	0877 S1-SM				
Design Compressive Strength (psi)	4000				
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	43.00	+/- yds ³ /ft ³ of concrete at the following location: Grand River commoner area, Plaza slab							
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)
3:30 PM	2442	6.00	7.10	0.0	77	83	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	84334	4.00	12.57	8.32	3-(Vertical)	Unbonded Cap	28	07/29/2021	61621	4900
1	84335	4.01	12.63	8.31	3-(Vertical)	Unbonded Cap	28	07/29/2021	62093	4920

Average 28 Day Compressive Strength (psi): 4910

*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:	WSP(Jason Lukasik, P.E.)
Report Approved By:	Matthew Johnson