



Concrete Cylinder Test Report

PROJECT INFO

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

Client	WSP	Date Of Placement	11/24/2020
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	Jose Vinuya
MDOT Control Section		Date Issued	12/22/2020

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	44.00	+/- yds ³ /ft ³ of concrete at the following location:	Used for the curb wall, transition wall and seat wall footings at the SE of Puritan Avenue and Grand River Avenue.
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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)
10:30 AM	2435	5.00	5.50	0.0	33	60	1	0	11

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	82080	4.00	12.57	8.50	3-(Vertical)	Unbonded Cap	28	12/22/2020	82090	6530
1	82081	4.00	12.57	8.46	2-(Cone/Vertical)	Unbonded Cap	28	12/22/2020	80230	6380

Average 28 Day Compressive Strength (psi): 6455

*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