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Concrete Test Report

Project No.: 1192040025

ReportNo: CTR:FH19-W02482-C02

Client: Merlo Construction Company

CC:

Project: MDOT - Various Detroit 2019-2020

Detroit, MI

Results relate only to the items inspected or tested. This report shall not be reproduced (in part or whole) without the



Reviewed By: Timothy A. Moore, Jr.

Mix Data

Supplier: Superior Materials
Plant: 32 - Jefferson Detroit
Mix: DDP155ERCement Type: 1
Admixtures: AEA, WR, R

Specified Design Strength (psi): 3500 at age 28 days

Sample Details

Date Sampled: 11/04/19
Sample Location: McCLELLAN - EAST SIDEWALK AT BLACKWELL ELEM MIDDLE SCHOOL.Batch Size (yd³): 10.00

Time Sampled: 12:25

Contractor: Merlo Construction
Truck/Ticket: /2459922
Sampled By: Mike Potts
Weather: Partly Cloudy

	Measured	Specified
Slump (in): ASTM C 143	5.5	3.00 to 6.00
Air Temp (°F):	51	
Concrete Temp (°F): ASTM C 1064	66	
Air Content (%): ASTM C 231	6.3	5.00 to 8.00
Unit Weight (pcf): ASTM C 138	N/A	142.1

Compressive Strength of Concrete Cylinders

ASTM C 39

Specimen ID	Date Tested	Age (Days)	Diameter (in)	Length (in)	Area (in ²)	Type of Cap	Maximum Load (lbf)	Fracture Type / Remarks	Compressive Strength (psi)
FH19-W02482-C02\1	11/11/19	7	4.02	8.07	12.69	U	42810	3	3370
FH19-W02482-C02\2	12/02/19	28	4.02	8.07	12.69	U	65475	3	5160
FH19-W02482-C02\3	12/02/19	28	3.99	8.16	12.50	U	69745	3	5580
FH19-W02482-C02\4		Hold							

Average 28 Day Compressive Strength (psi)	5370
Required Strength (psi)	3500

Notes

1. Sampling to ASTM C 172
2. Specimen(s) prepared to ASTM C 31
3. Capping: B = Bonded ASTM C 617, U = Unbonded ASTM C 1231
Sampled from Truck Chute

Remarks

Fracture Type: 3 = Columnar vertical cracking through both ends