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Concrete Test Report

Project No.: 1192040025

ReportNo: CTR:FH19-W02482-C01

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: DDP155E7Cement Type: 1
Admixtures: AEA,WR

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

Sample Details

Date Sampled: 11/04/19
Sample Location: SOUTHBOUND CURBLINE AT SOUTHFIELD & VAN BUREN
Contractor: Merlo Construction
Truck/Ticket: /2459882
Sampled By: Mike Potts
Weather: Partly CloudyBatch Size (yd³): 10.00

Time Sampled: 11:15

Slump (in): ASTM C 143
Air Temp (°F):
Concrete Temp (°F): ASTM C 1064
Air Content (%): ASTM C 231
Unit Weight (pcf): ASTM C 138

Measured	Specified
3	0.00 to 3.00
50	
62	
6.9	5.50 to 8.00
N/A	

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-C01\1	11/11/19	7	3.99	8.05	12.50	U	46150	2	3690
FH19-W02482-C01\2	12/02/19	28	4.01	8.11	12.63	U	58980	3	4670
FH19-W02482-C01\3	12/02/19	28	4.03	8.14	12.76	U	63780	3	5000
FH19-W02482-C01\4		Hold							

Average 28 Day Compressive Strength (psi) 4840

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: 2 = Well-formed cone on one end, 3 = Columnar vertical cracking through both ends