



Concrete Cylinder Test Report

PROJECT INFO - DRAFT ONLY

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

Client	HRC	Date Of Placement	06/16/2020
Project Name	HMA Resurfacing 20+ Locations	Specimen Type	Concrete Cylinder
Project Number	2019086C	Contractor	merlo
Project Location	Detroit, MI	Concrete Supplier	Superior Materials
MDOT Job Number	205935A, 207914A	Field Tested By	Ryan Castillo
MDOT Control Section	82000	Date Issued	06/17/2020
Results Recorded In	English Units		
Supplier Mix Description	Structure Adjustment		

DESIGN PARAMETER

Mix Design Number	0642 P155E7CNA002 (Plt. 2)				
Design Compressive Strength (psi)	3500				
Air (% Max)	8.5	Slump (in Max)	3.00	Unit Weight (lbs/ft ³)	
Air (% Min)	5.5	Slump (in Min)	1.50		

TESTING DATA

Placed 30.00 +/- yds ³ /ft ³ of concrete at the following location: Pouring sidewalks on Burt rd 250ft south of the railroad tracks.									
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)
9:20 AM	3603	3.50	7.00	0.0	69	78	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	78316						28	07/14/2020		
1	78317						28	07/14/2020		

Average 28 Day Compressive Strength (psi): 0

*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:	
Report Approved By:	Ryan Castillo

INSPECTOR'S REPORT OF CONCRETE PLACED - Roadway

FILE 210

CONTRACTOR <u>Merlo Construction</u>		GENERAL NAME OF PROJECT <u>MDOT-Various Detroit</u>	
SUBCONTRACTOR		CONTROL SECTION ID - JOB NUMBER	
CONCRETE SUPPLIER <u>Superior Materials</u>		ROUTE <u>Burt Rd</u>	
MAXIMUM TIME <u>90 minutes</u>		STRUCTURE NUMBER	
WEATHER <u>mostly sunny</u> A.M. _____ P.M. _____		REPORT NUMBER	DATE <u>6/16/20</u>
MAX. WATER ADDED PER CYD GALLONS		REASON:	
BEAMS/CYLINDERS MADE (Sta, Time, #, etc.)		CURING COMPND. USED GALLONS	

Intended Air 5.5 % to 8.5 % TEMPERATURES - AIR - SLUMP Intended Slump 0 " to 3 "

TIME	ATMOSPHERE	CONCRETE	*AIR CONTENT %	SLUMP	CYLINDERS BEAMS	TIME	ATMOSPHERE	CONCRETE	*AIR CONTENTS %	SLUMP	CYLINDERS/ BEAMS
① 9:15am	66°F	78°F	6.0%	3"	4						

LOT #	LOT SIZE	SUBLOT #	SUBLOT SIZE	RANDOM #	QA Cylinder ID	Discrepancy Cylinder

COMMENTS As poured by truck chute

ITEM OR CODE NO.	STA. TO STA.	GRADE OF CONC.	LENGTH	WIDTH	DEPTH	MEASURED SQ. OR CU. YARDS	CYDS. PLAN	CYDS. USED	CYDS. WASTE	OVER UNDER %

REMARKS OR COMPUTATIONS
(Use back if necessary) ① ticket 2501472
P155E7CNA002

MIX OR STREET TECHNICIAN Mallory Grager Mary Grager DATE 6/16/20

