



CONCRETE QA CORRELATION

PROJECT NAME: HMA Resurfacing 20 + Location
MDOT CONTROL SECTION: 8200
MDOT JOB NUMBER: 205935A,207914A
PROJECT ENGINEER: [REDACTED]
INSPECTOR: Omar
QC TESTER: Jasmin Lamekin

DATE: 6/5/2020
SOMAT JOB NUMBER: 2019086C
CLIENT: HRC
CONTRACTOR: Merlo Construction
CITY: [REDACTED]
QC COMPANY: CTI

CONCRETE INFORMATION

CONCRETE COMPANY:	Superior Materials	TRUCK NUMBER:	9123
MIX DESIGN #:	P155E7CQA032	PLANT LOCATION (CITY):	Detroit
CONCRETE GRADE:	P1	TOTAL QUANTITY (CYDS):	64
PWL/NON-PWL:	N/A	QUANTITY AT SAMPLE (CYDS):	8

POUR LOCATION (STATION, STRUCTURE, ETC...)

Used for the curb at the westside of M-10 SB Service Drive, north and south of Warren Avenue.

TEST RESULTS

	QC (CONTRACTOR)	QA (SOMAT)	TOLERANCE	MEETS TOLERANCE (Y/N)
SAMPLE TIME (Hrs/Min):	9:30AM	9:30AM		
AIR CONTENT (%):	6.9	6.8	+/- 0.8 PERCENT	Yes
CONCRETE TEMP. (°F):	77	77	+/- 2.0 DEGREES	Yes
AIR TEMP. (°F):	78	78		

REMARKS:

Both QA and QC field technicians performed complete concrete field test and test results are within tolerance.

FIELD REPRESENTATIVE: Jose M. Vinuya

DATE: 6/5/2020

PROJECT MANAGER(s): Steve Drummond, P.E.

DATE: 6/5/2020



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	06/05/2020
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	Jose Vinuya
MDOT Control Section	82000	Date Issued	06/05/2020
Results Recorded In	English Units		
Supplier Mix Description	Structure Adjustment		

DESIGN PARAMETER

Mix Design Number	0674 P155E7CQA032			
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 64.00 +/- yds ³ /ft ³ of concrete at the following location: Used for curb at the west side of M-10 SB Service Drive from North and South of Warren Avenue.									
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)
9:30 AM	9123	2.50	6.80	0.0	78	77	1	0	8

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	78139						28	07/03/2020		
1	78140						28	07/03/2020		

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:	Jose Vinuya



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4:30 PM	6361	2.50	6.80	0.0	91	84	2	0	64

MATERIAL DATA

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2	78141						28	07/03/2020		
2	78142						28	07/03/2020		

Average 28 Day Compressive Strength (psi): 0

*Cylinders tested with Unbonded Caps followed ASTM C1231, cylinders tested with Bonded Caps followed ASTM C617.

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