

MOISTURE AND DENSITY DETERMINATION

NUCLEAR METHOD

DISTRIBUTION: ORIGINAL – Construction Engineer, COPIES – Area Density Specialist, Density Technology Unit (Lansing).

* SEE REVERSE SIDE

DATE 06/12/20	CONTROL SECTION ID 82000	JOB NUMBER 205935A, 207914A	ROUTE NO. or STREET Major Fed-Aid HMA Resurfacing	GAUGE NO. 24315
DENSITY INSPECTOR Jaden Riley	CERTIFICATION NO. 12128-0424	DENSITY INSPECTOR PHONE NO. (313) 613-9100	CONSTRUCTION ENG. (MDOT) Andrea Wilcox - Detroit TSC	ASST. CON.ENG. / CONSULTANT ENG. Kevin Surhigh (HRC)

[illegible][illegible]

REMARKS

Location: Lafayette E to E Grand Ave. Test 1-8 Lane 1 Test 9-15 Lane 2

Test Stations: 13.) 42.3251, -82.9993 14.) 42.3517, -83.0006 15.) 42.3512, -83.0019

20/10 Weights	1st	2nd	DENSITY INSPECTOR'S SIGNATURE  Jaden Riley Jun 13 2020 6:45 PM 	AGENCY / COMPANY Somat Engineering, Inc. (JN. 2019086C)
3rd	4th	5th		

	MINIMUM % OF COMPACTION	ITEM OF WORK	DEPTH
Original Ground			
Road Embankment Areas (if specified on the plans)	90.0	OG	9"
Bridges – as shown on the plans	95.0	OG	9"
Cut Areas			
Cuts requiring Sand Subbase	95.0	CS	9"
Cuts not requiring Sand Subbase	95.0	CN	12"
Subgrade for HMA Base, Aggregate Base and Concrete Widening	95.0	SG	9"
Embankments			
Regular	95.0	E	
Abutments with Piling	95.0	AP	
Abutments without Piling – within the limits for Structure Embankment as shown on the plans	100.0	AN	
Backfill			
Foundation Undercut Backfill for Retaining Walls, Grade Separation or Bridges	100.0	FB	
Backfill for Bridges, Culverts, Sewers, Water Main, Manholes, Catch Basins, Edge Drains and Subgrade Undercuts	95.0	B	
Pavement Structure			
Subbase	95.0	S	
Subbase for Slope Paving	90.0	SP	
Aggregate Base-used under Concrete Pavement	95.0	SS	
Aggregate Base-used under HMA Pavement	98.0	AB	
OGDC – used under Concrete and HMA Pavement	95.0	OGDC	
OGDC – used under Concrete and HMA Pavement (recycled material)	95.0	OGR	
HMA Aggregate Base (pulverized HMA used as Aggregate Base)	98.0	BAB	
Aggregate Base – used under Concrete Pavement (recycled material)	95.0	CAC	
Aggregate Base – used under HMA Pavement (recycled material)	98.0	CAB	
OGDC – Sleeper slab footprint and approach area	95.0	SLO	
OGDC – Sleeper slab footprint and approach area (recycled material)	95.0	SLOR	
Aggregate Base – Sleeper slab footprint and approach area	98.0	SLA	
Trenching – under concrete pavement	95.0	TC	
Trenching – under HMA pavement	98.0	TB	
Shoulders – Class I	98.0	SAA	
Shoulders – Class II and III	95.0	SA	
HMA Stabilization	98.0	BS	
HMA Paving – Base Course	92.0*	BB	
HMA Paving – Leveling Course	92.0*	BL	
HMA Paving – Top Course	92.0*	BT	

See JMF (form 1911) for G_{mm} value for target density value. $TMD = G_{mm} \times 62.4$

*Minimum % compaction of JMF TMD