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DATE 09/11/20	CONTROL SECTION ID 82000	JOB NUMBER 205935A, 209936A	ROUTE NO. or STREET Major Fed-Aid on various routes 2020	GAUGE NO. 19298
DENSITY INSPECTOR Robert Clark	CERTIFICATION NO. 12330-0625	DENSITY INSPECTOR PHONE NO. (313) 627-0199	CONSTRUCTION ENG. (MDOT) Andrea Wilcox - Detroit TSC	ASST. CON.ENG. / CONSULTANT ENG. Kevin Surhigh (HRC)

[illegible]

TEST NO.	MOIS- TURE %	VOLUME OF MOLD CU. FT.	DETERMINATION OF MAXIMUM DENSITY (SOIL & HMA)							NOTE: To convert (g) to (lbs): Wt. (g) ÷ 453.59 = Wt. (lbs)	
			WET SOIL + MOLD g	MOLD g	WET SOIL g	WET SOIL lbs	COMPACTED SOIL WET PCF	MAX DENSITY PCF	OPTIMUM MOISTURE %		
A	B	C	D	E	F	G	H	I	J	CHART STANDARDS	
5E3								156.7		DENSITY	MOISTURE
										2,030	632
										2,071	656
										OPERATING STANDARDS	
										DENSITY	MOISTURE
										2,046	626

REMARKS

T#17 (42.397750,-83.125159) T#18 (42.396255,-83.124183) T#19 (42.393753,-83.122476)

20/10 Weights	1st	2nd	DENSITY INSPECTOR'S SIGNATURE Robert Clark Sep 11 2020 6:25 PM 	AGENCY / COMPANY Somat Engineering, Inc. (JN. 2018052L-008)
3rd	4th	5th		

DENSITY REQUIREMENTS

	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