Project Documentation/ Inspection

Session 12



WisDOT Project Engineer Perspective

- Review Mix Design Information
- Inspect Stockpiles to be used at Plant Site
- Ensure that each load of mix is satisfactory
- Collect Truck Tickets
 - Verify yield
- Observe paving operation
 - Identify / notify operational concerns
- Check Pavement Thickness
- Project Diary Entry
- Pay Item Measurement



Mat Inspection Tools

- Proper PPE
- 10' Straightedge
 - Ensure surface layers show no variation greater than 1/8" between any 2 surface contacts
 - Ensure lower layers, shoulder surfacing, temp. connections, and bypasses show no more than ¼"
 - Remove and replace or correct all humps or depressions exceeding specified tolerance
- Level
 - Check manholes, water/sewer boxes, inlets, etc...



Mat Inspection Tools

- Thermometers
 - Mat temp. of pavement surface
 - Mixture temp in/out of paver
 - Compaction temps.
- Measuring Wheel
- String line
- Paint
- Wooden Rulers
 - Verify mix thickness (or witness)
- Field Diary



Other Inspection Tools

- Smart Level
 Do not set on hot mat

Infrared Camera



Yield Calculation

Calculate the number of tons of HMA it will take to go one foot. Then multiply that value by the number of laid feet and compare to the cumulative tons on the truck tickets. (Unit weight estimated at 110 lb/SY/1")

110lb	Х	<u>1 sy</u>	X	lane (ft)	X	lift (in)	Х	<u>1 ton</u>	
<u>Sy</u>		9 sf		width		thick		2000	
lb 1" thick									
			and the second s						
OF THE OWNER OWNER OF THE OWNER OWNE		AND		- die		and I	1000		
A OF TRANSPORT		WE ML		1 - 6 - A		CHE .		State of	

Determine average actual thickness of a surface layer, compare against theoretical thickness and adjust as needed.

Density by test = 146.1 lbs/cubic foot

Plan depth = 3" (lower layer)

Width placed = 12'

Length placed = 3,250' in 4 hours (measured)

Tons placed = 650 tons (by ticket)

Weight/S.Y./Inch depth = 146.1 x $\frac{27}{36}$ = 109.58 lbs.

Theoretical mass = $\frac{3,250' \times 12' \times 3'' \times 109.58}{9 \text{ S.F.} / \text{ S.Y} \times 2,000}$ = 712.27 tons



Determine new required distance per truckload.

146.1 x
$$\frac{1}{12}$$
 x 3" x 12' = 438.3 lbs./ft. is currently placed.
438.3 x $\frac{712.27 \text{ Tons}}{650 \text{ Tons}}$ = 480.3 lbs./ft. should be placed.
Length paved per truck should be = $\frac{\text{Net Weight of Load (lbs.)}}{480.3}$
Example using 30,000 lbs. load:
Length paved should be = $\frac{30,000}{480.3}$ = 63 ft.



Say ¾ inch was allowed for consolidation, so 3¾ inches were being placed (un-compacted depth), but it has been shown to be insufficient from Example 1.

$$(\frac{712.27}{650} \times 3)$$
 + .75 inch = 4.04; say 4 inches



Example of HMA Paving Diary Worksheet

HA	IA Pavi	ina Die	ary Work	sheet				HMA Temper	atures						
-		-						Time		ature Behind Paver	Te	emperature	at Truck Bed		
	DATE:	9/18/201	ŧ					8:20 AM		291' F		287	F	-	
PRO	JECT ID:	1022-09-	80	DE	SCRIPTION:	CRIPTION: Eau Claire to Osseo - USH 53 to Mallard Boad		1:45 PM		:86' F		288			
BO	ADVAY:	IH 94			COUNTY:	Eau Claire	-								
								Tack Coat Y.	ïeld						
Ger	reral Info	matian						Approx. Gal T	ack Used:	2100					
				ion 646+00	to station 603+	91		Tack Yield	(Gal/SY):	0.0341					
	ocation:				to station 725+										
								Inspection (Ibservat	ions					
	Lift #	2				l (tons/sta):									
	ickness:	2"				ckness (in):		Bolling I	Pattern:	One tandem steel drum roller (Dresser 17128) followed by two vib drum rollers (Dynapac CC 624 HH)		ved by two vibratory	steel		
tal th	ickness:	4.5"				ng width (ft):						CC 624 HH			
	tart time:		art at 8:00 AM		De		87-14-725-SMA-12.5(R	Usina Auto	maties	NA					
S	top time:	Paver o	ff at 6:30 PM			Miz Type:	SMA	Underlying S		E-10 Lower L					
		Rollers	off at 7:15 PM			AC type:	PG70-28	onderiging	surrace:	E-10 LOwer E	agei				
						BAP %	0	Factors a	Factors affecting						
									vield: Pulled in to 11 feet for r		i teet tor ra	amp taper a	СІНВ		
HM	4 Yield														
			Cummulative		Cummulative		Cummulative Yield								
	ocation	Stations	Stations	Tons	Tons	Sta)	(Tons / Sta)	Other not		Paver stopp	ed at 645+3	35 for 30 mi	n. due to paver b	reakdown	
EB	646+00	0.0	0.0	0.0	0.0			inspection	n items:						
EB	603+91	42.1	42.1	861.38	861.38										
EB	425+00	178.9	221.0	3538.62	4400.00	19.8	19.9								
EB	300+00	125.0	346.0	2000.00	6400.00	16.0	18.5								
EB	220+00	80.0	426.0	2800.00	9200.00	35.0	21.6								
							2.67 ir								



1/26/2016

Mix Tickets



		1:00 A 10/4/07	
	S O D	STK	
	d # Order No: 75476M .		
	Truck: ALL 505		
	(Stored) TARE: 29480 LBS (Stored) NET: 43520 LBS		
	Load # 1 TOTAL CUMU: 21.76 Ton		
S WISCONSIA	* Manual Weight		
FORT TRANSPORT	Received by	TRP N/A Job	





	ASPHALT SURFACE DRIVEWAYS		1	1	
ITEM:	AND FIELD ENTRANCES		PROJECT I.D.		·
ITEM #:	465.0120		ROADWAY		
CATEGORY:	0010		DESCRIPTION		
ENTERED BY:			COUNTY		
CHECKED BY:		5			
		TONS			
DATE	LOCATION		TONS	SUBTOTAL	REMARKS
	LOCATION SEE SHEET 0220.01 A		<u>TONS</u> 15.ย์		REMARKS SEE SHEET 0220.01
				/ 15.0	
	SEE SHEET 0220.01 A		15,Ø	/ 15.0 	SEE SHEET 0220.01
	SEE SHEET 0220.01 A SEE SHEET 0220.02 A	, ,	15.Ø 40.1	/ 15.0 	SEE SHEET 0220.01 SEE SHEET 0220.02
	SEE SHEET 0220.01 A SEE SHEET 0220.02 A		15.Ø 40.1	/ 15.0 	SEE SHEET 0220.01 SEE SHEET 0220.02

WisDOT Standard Specification 450

- Measurement
 - Measure by the ton
 - Provide the engineer with weigh tickets showing net weight of each load of material
 - Field Inspection Visual (Document Findings)
 - Enter data on tonnage spreadsheets during placement
 - The Dept. or Dept.-authorized testing firms or agencies will test the contractor's truck, storage silo, or plant scales
 - Field Inspection None



WisDOT Standard Specification 450

- Payment
 - All costs for scaling of material is incidental
 - Nonconforming material allowed to remain in place is subject to price adjustment under 105.3.2



WisDOT Standard Specification 455

- Measurement
 - The dept. will not measure nonconforming asphaltic materials unless the engineer allows those materials to remain in place.
 - Deduct for material wasted or not actually incorporated into the work.
 - Measurement volume calculations

Field Inspection Visual and/or verify calculations (Document Findings)



WisDOT Standard Specification 455

- Asphaltic Material Bid Items
 - Measure by ton or gallon (3 ways)
 - Calculations
 - Conversions
- For combined bid, will no longer pay, still need to measure for records
- Tack Coat
 - Measure by ton or gallon based on shipment net weights

Field Inspection Visual and/or verify calculations (Document Findings)



WisDOT Standard Specification 455

- Payment
 - Basis of payment full compensation
 - If PG binder is nonconforming, pay at 75% if material remains in place
 - For combined bid, if PG binder is nonconforming, mix will paid at 75% if material remains in place
 - If tack is nonconforming see pay table
 - For any nonconforming nuclear density or QMP HMA material items both mix and PG binder prices are affected

Field Inspection Visual and/or verify calculations (Document Findings)



PG Binder/Tack Tickets

- April 2016 Let and after –M332 (New)
- Anything prior to April 2016 Let– M320 (Old)
- Make sure that you put the correct information on the sample card
- Know which spec. applies to your project. M332 vs. M320
- > PG 58-28H is the same as PG 58H-28
- (See examples)



- Sample card MUST PROPERLY LIST THE PLAN DESIGNATED GRADE
- Most of the program is going to fall under M320 testing (old program) vs M332 (new program).
- BOL The Bill of Ladings may list both systems: M320: PG 64-28 or M332: PG 58-28 S or 58S-28
- For polymer blends consider a no cost change order to the new system. The BOL on those may look something like this:
 M320: PG 64-28P or M332: PG 58-28V or 58V-28.



Sampling/Testing

- PG binder sampling (DOT responsibility)
 - Per binder grade, plant & source per contract
 - One sample per 900 liquid ton of binder
 - Do not accept samples from truck drivers
- Tack sampling (DOT responsibility)
 - One per contract only if over 2500 gallons
- HMA sampling & testing (DOT responsibility)
 - One per 5,000 tons per mix design
 - · Disputes sent to Madison for Resolution



Sampling Asphalt Binder

455.2.2.1 PG Asphalts

 (1) Sample according to the department's
 "Combined State Binder Group Certification Method of Acceptance for Asphalt Binders".

Latest version is dated January 2016

Changes effective with January 2016 Lets



Sampling Asphalt Binder

- For projects greater than 1,000 ton of mix
 - Truck transport sample per 15,000 mix tons for each supplier and grade of asphalt binder, or fraction thereof, per contract
 - Additionally, one random sample, by In-line sample, of the binder is required per project
- For contracts with 1,000 ton or less of mix
 - one random sample of the binder by In-line sample may be required per project, at the discretion of the project engineer



Sampling (cont.)

A. Truck Transport:

Sampling shall be accomplished by taking a one-liter (one-quart) sample of material representing the middle third of the load from a sample valve attached to the transport in accordance with AASHTO Designation R66 section 13 paragraph 13.3.2.

B. In-Line:

Sampling shall be accomplished by taking a one-liter (one-quart) sample of material from an in-line sample port between the storage tank and mixer as described in AASHTO Designation R66 section 8 paragraph 8.2.2.

In addition, supplier or contractor personnel, under the observation of Department representative, will obtain samples as directed by the project engineer to adequately monitor material quality at the HMA plant for alterations made to the site storage, HMA plant handling process, or if modification is occurring at the HMA plant.



		Daily Job Product 806422		51.31 Quantity 51.31	DriverID Truck Master Hauler/Payee	99999 AGGPAD 117190	400	Ticket Numb 23 1023 00246 08/25/08 6:: OUTBOUN
Customer	10				PO 1			
Jop	252157				PO 2			
Internal #								
		FOREMA	N 112488	5				
Trucking	Н			_				
Product	806422	LIQUID A	C 6422 INVE	NTORY				
Quantity	51.31	US TON(S	5)					
GrossPounds	TarePounds	NetPound	5					
102,620	1	102,619						
Manual								ORIGIN/
968.08 TONS @) 5.3% ADDED	AC = 51.31	TONS AC					
Driver Name:					eceived by:			
	A1	7 -	TIC	KE	T		40023 1	023 0024686

			·			· · ·	
	1.1.1	11.000					
DATE		11-15-0		STATE ID		-	
TYPE OF MA	TERIAL	E-10 1	2.5 MM	MIX DESIG	N NO. 167 DOT	#250-0/29-2	005
LOCATION							
	····			0.1 70 5	INDER DIALED IN AT	PLANI	4. 1
ASPHALT PLA	ANT			START OF	DAY	1	·
ACTUAL TON	SPRODUC	ED 487	7.38 TEN	S END OF DA	Υ.,		
	• • •]
DENSITY NUM	BER			MIX DESIGN	TARGET % BINDER	1	· ·
DENSITY NUM (Density = Gm				MIX DESIGN	I TARGET % BINDER]
	m 62.24)	· · ·			I TARGET % BINDER] , ·
(Density = Gm ANTICIPATED	m 62.24) Daily Sample			DAILY	I TARGET % BINDER]
(Density = Gm ANTICIPATED	m 62.24) Daily Sample	DAILY RANDOM	NUMBERS	DAILY	I TARGET % BINDER	MEGAGRAMS	
(Density = Gm ANTICIPATED	m 62.24) Daily Sample	DAILY RANDOM	NUMBERS	DAILY			
(Density = Gm ANTICIPATED	m 62.24) Daily Sample	DAILY RANDOM	NUMBERS	DAILY	TONS	MEGAGRAMS	
(Density = Gm ANTICIPATED	m 62.24) Daily Sample	DAILY RANDOM	NUMBERS	DAILY	TONS 50-600	MEGAGRAMS 45 - 550	
(Density = Gm ANTICIPATED	m 62.24) Daily Sample	DAILY RANDOM	NUMBERS	DAILY	TONS 50 - 600 601 - 1500 1601 - 2700 2701 - 4200	MEGAGRAMS 45-550 551-1380 1381-2450 2451-3810	
(Density = Gm ANTICIPATED	m 62.24) Daily Sample	DAILY RANDOM	NUMBERS	DAILY	TONS 50 - 600 601 - 1500 1501 - 2700	MEGAGRAMS 46 - 550 551 - 1380 , 1361 - 2450	
(Density = Gm ANTICIPATED	m 62.24) Daily Sample	DAILY RANDOM	NUMBERS	DAILY	TONS 50 - 600 601 - 1500 1601 - 2700 2701 - 4200 4201 + (every 1500	MEGAGRAMS 46 - 550 551 - 1380 1381 - 2450 2451 - 3810 3811 + (every	
(Density = Gm ANTICIPATED	m (2.24) DAILY SAMPLE NUMBER		NUMBERS	DAILY	TONS 50 - 600 601 - 1500 1601 - 2700 2701 - 4200 4201 + (every 1500	MEGAGRAMS 46 - 550 551 - 1380 1381 - 2450 2451 - 3810 3811 + (every	



CHANGES, NOTES, OUTCOME; 1 PG jų TONS 64-28 4 . . Q, 9 hirv Davea 197.49Ton = 10,07 Tons AC. 05.1% , ļ, PA. NO 21,00 T. oad 10 22:397 11 W 20.841 12 10:30-12:30 13.22.017 Jason. 86.24 Tons W ------

a ta an t	TACK)
NAME MilwAuker County	WIS
JOB P.O.	DATE <u>11 - 15 - 0'7</u> es ('THU.)
TRUCKING COMPANY	DRIVER SIGN
TRUCK #	
GROSS EMPTY WT.	N PRICE
PRODUCT:	
210 120 degra-	-5
OF TACK	TOTAL
RECEIVED AND OK'D BY	

1	T 8 85.		· · ·	<u> </u>		······································
· ·					No.	17545
	(유지원) - 영국(2)		. · ·	DATE 8	26-08	la testa
	<u></u>					
SOLD TO:						
PROJECT OR PROJECT NO .:						
JOB ADDRESS:						
JOB NUMBER: 25215	-7 職	REVENUE ITEM: 90	000/80	COST ITEM:	411006	
TYPE OF MATERIAL SS-14	MATERIAL 50		SOURCE OF 4	0807		
B GROSS	F	REMARKS		GROSS	450	
T TARE					400	
NET				AMOUNT	50	
LEAVE A.M. PLANT P.M.		A.M. LE PM. JC	AVE 8	АМ. РМ.	ARRIVE PLANT	AM. PM.
TRUCK 115 E/09	DRIVER	FOREMAN NO.	ÇUSTOMER SIGNATURE		in the second	e de transferencia de la composición de
112-107		CUSTOMERC	 Without and the optimization of the second se			F

ITEM DESC:	TACK COAT	PROJECT I.D.		
		ROADWAY		
		DESCRIPTION		
ITEM #:	455.0605	COUNTY		
CATEGORY:	0010			
ENTERED BY:				
CHECKED BY:				
TACK CONV	ERSION	. ,	Total	Unit of Measure
	1325	- <===TOTALS===>	1295.84	Gailons
DATE PLACED	VOLUME OF TACK USED (IN GALS)	TEMPERATURE OF TACK (F)	CORRECTED VOLUME (IN GALS)	REMARKS
8/26/08	400		391.20	
8/25/08	50	150	48.90	
8/26/08 8/26/08	25	150	24.45	
8/26/08	359	/ 150/	342.30	
9/16/08	350	150	342.30	
9/17/08	109	150-	97.80	Final Quantity

Compaction

- Things to look for:
 - Appropriate number of rollers
 - Ensure compacted surface is smooth and true to the established crown and grade
 - Proper rolling pattern
 - To the extent possible, eliminate roller marks
 - Roller drums need to stay moistened, but no excessive water usage
 - Proper rolling temperature
 - Uniform mat temperature
 - Proper mat thicknesses



CMM 4-58

- Pre-Pave Meeting requirements
- Best Practices
- Joint construction
- Weigh Ticket requirements
- Paver operations
- Etc...



Project Leader

- Hold Pre Con Meeting
- Schedule Pre-Pave Meeting
- Inspection/Acceptance
- Contract Mods
- Project Control/ Authority
- Administrative Items

Materials Section

- Hold Pre-Pave Meeting
- Collect/Review QC data daily
- Payment recommendations
- Contact you if there are any QMP concerns
- Plant/lab/source inspection, sampling, and testing



ا 🛞	PREPAVE MEETING	۹
Project Information & Con	ntacts	
I.D. Number: <u>1411-03-70</u> Roadway Name: <u>5TH 33</u> Courty: <u>Washinaton</u> Project Leader: <u>Leanne Marchant</u> Office Phone: <u>262-278-2556</u> Field Office Fax: <u>262-278-6056</u> Leader's E-mail: <u>Jearne Marchantedot</u>	Paving Contractor: <u>Pavne & Dolan, Inc.</u> Contr. Lead worker: <u>Ted Helleckson</u> Lead Worker <u>Endit Helleckson</u> Phone Number: <u>270-370-1605</u> QC Testing by: <u>Troy Humes</u> Plant Name: <u>C-3 Cedar Jake</u> Lab Phone: <u>202-604-2348</u> utooy Plant Foreman: <u>Bobby Octrowski 920-345</u>	ESAL's: <u>E-3 (51.537 Tons)</u> AC Types: <u>PG 64-22 (1996.9 Tons)</u> PG 64-28 (1037.8 Tons)
Meeting Check List		
 Contractors Plant Calibrated Verified Mix Design(s) Verifications to Project Engineer Aggregate Sources Approved 	Review Surface Preparation Q Review Construction of Joints V	ocedure for Unsatisfactory Results C. Lab/Personnel on Approved Lists otify Asphalt Unit of CA Samples atter needed for May 1 Oct 15 paving
Assigned Responsibilities		
2. Densities will be determined by 3. Asphalt Cement Quantities con 4. Person who will compute the A 5. Person responsible for requesti 6. Agency responsible for obtaini 7. Person responsible for QA/QV	nputed by what method: Theoretical Method Quantities? The Engineer (AC tickets will	nent Cores od (SS 455.4.2) or Tank Sticking I be provided daily during production) <u>rtment</u> Debbie Schwerman
Points of Emphasis		
the warning band notify the Pro running averages enter the warn Coordinator must be notified an via phone but preferably e-mail 10. Please notify the Project Engin 11. Forward all QC test data to the	a warning band, notify the HMA Coordinator th ject Engineer and the HMA Coordinator as soon sing band, there is a required stop in production a d made aware of process adjustments prior to pro- eer and Newhall Lab Coordinators at least one bu Project Engineer within ten days after paving is a arts to Debbie Schwerman, and nuclear density te	as practical. If two consecutive and both the engineer and the HMA oduction start up. This can be done usiness day before paving. completed.
SE Region Phone Listing/I	mportant Numbers	
Deborah Schwerman Regional HMA Coordinator E-mail: deborah schwerman@dot.wi.gov Phone: (262) 548-5698 Cell: (414) 750-2937 Fax: (262) 548-6465	Carrieann Markley Nuclear Density Coordinator E-mail: carriasm markley@dot.wi.gov Phone: (262) 548-8774 Cell: (414) 750-1494 Fax: (262) 524-0695	Brian Pluemer Project Manager E-mail: brian pluemer@dot.wi.gov Phone: (262) 548-6721 Cell: (414) 750-2271

Pre-Pave discussion (prior to paving)

Total Pavement Thickness: 2" Mill & Overlay (STH 33/Park & Ride) 2" 12.5mm E-3 PG 64-28

Total Pavement Thickness: 4.25" Shoulders 2.25" 19.0mm E-3 PG 64-22 2" 12.5mm E-3 PG 64-28

Total Pavement Thickness: 5" Park & Ride 3" 19.0mm E-3 PG 64-22 **General Notes has this listed as 3.5"** 2" 12.5mm E-3 PG 64-28

Total Pavement Thickness: 5.5" STH 33 Re-construct 3.5" 19.0mm E-3 PG 64-22 2" 12.5mm E-3 PG 64-28 *QM

*QMP HMA versus Asphaltic Surface



Pre-pave Discussion Items

- Mix Designs
 - Make sure you check for approved mix design
 - Eligibility of design
 - PG binder use
- Density Targets
 - Per layer
- IRI
 - Category
 - Station limits
 - Exemptions



1/26/2016

Specification Updates



Specification Updates

- Combined Bid
 - Fractured faces
 - TSR
 - LT, MT, HT (500? combinations to 45?)
 - M332 New, M334 Old



Specification Updates

- + 460.2.2.3 Aggregate Gradation Master Range
 - New numbering system

Gradati	ons (Nmas)
1	37.5 mm
2	25.0 mm
3	19.0 mm
4	12.5 mm
5	9.5 mm
6	4.75 mm



Pantry Software

- State-wide Spreadsheets
 - Nuclear Density Incentives/disincentives
- State-wide Forms
 - Paving Letter templates
 - Conversions
 - Calculations
- Regional Specific
 - Pre-Pave Forms



1/26/2016

Field Note Diaries



CMM 4-59

- Inspector duties
- Documentation CMM 4-61
- Visual inspection guidance
- Problem/Causes checklist
- Yield calculations
- Etc...



Diary Date 07/12/13	Diary Author Sunrise	Sunset	Temper	atures	Wea	ther	
64	00:00	00:00	High: 80	Low: 70	Sun		
Site Information Site Description 00 Working Day	Comn	nent			Charge 1	Controlling Item Asphalt Pavement, Binder	Reason for C

Remarks Expanded View

today. Paving started to pave at station 264+25. The binder layer was placed today. Paving started at 7:30am. The final grading crew was approximately 1000¿ in front of the paving crew.

Between stations 244+00 and 225+00 three loads of asphalt were rejected and sent back to the plant due to not having enough oil in the mixture. The plant was notified of the issue and corrected. Work continued and **Sent** completed the binder west bound layer at station 168+93. Barrels were pulled and contractor left the site at 7:30pm.

IDR Information	Subid	FM0000	1 Vendor ST11		
Vendor Name					
Workers Description	Number	Hours	Equipment Description N	umber	Hours
Flagger	3	12	Hamm Drum Roller HD120	1	12
Foreman	1	12	Hamm Drum Roller HD90	1	12
Laborer	4	12	Hamm Tire Roller GRW18	1	12
			New Holland 168 Skid Steer	1	3
Operator	5	12	Paver Terex 352	1	6
			Paver Terex CR452	1	12
			Road Tech SB2500 Shuttle	1	12
			Wirtgen 50DC mini mill	1	2



on site started to pave at station 286+50 at 8:30am. Paving continued through the day. An average surface depth of 2.25; was being placed. Field engineer spoke to Foreman and Foreman about paving near intersection Field engineer suggested to them to place a flagger near the round a bout suggesting to traffic to travel north or south on about Project Manager stated that a would not allow his second paving crew to pave the intersection at a state of the will now pave the intersection 1st thing tomorrow morning.

Near the end of the day at 170+00 a dump truck broke down in front of the shuttle buggy. The truck was removed and the ticket was discarded because it was not unloaded. This was ticket 97. Paving was completed at 5:15pm at station 168+93. Notified the contractor of a resident that needed a better ramp to enter and exit their driveway. Foreman **and** had a laborer take gravel to the property at **and** and ramp the entrance.



С

Diary Date	Diary Author			
07/12/13	Sunrise	Sunset	Temperatures	
62	00:00	00:00	High:	Low:
Site Information Site Description 00 Completion Dat	Comm	nent		

Remarks Expanded View



asphalt lab broke down. They will only be able to pave 1500 ton today. Due to noise restrictions, the plant will only be online until 1pm tomorrow for paving.



Diary Date 09/18/13	Diary Author Sunrise	Sunset	Temper	atures		
147	06:36	18:57	High: 80	Low: 57	ł	
Site Information Site Description 00 Completion D	Comm	ient				
Remarks Expa	anded View					
0.01" rain recorded at Muskego weather station. completed storm sewer installation for Stage 3, except for Inlet 1.2.						
paved binder (E-1) on Villa Drive and Abbey Court.						
HISCORSIA				z		
AT OF TRANSPORT	R. C. C. C.	and the second	4			

Contractor on site to pave binder and surface on NB lane 1 and the median shoulder from 665+57 to 673+37. Binder is 19mm E10 HMA and surface is 12.5mm E10 HMA from will also resurface lane 1 and the median shoulder from 673+37 to 192+14 to repair the area between 676+00 and 191+63 where water has been ponding. The paving foreman is Milling began at 665+57 at 10 pm. Milling inspected by see his IDR for details. 12:20 am first truck arrived on site and lane 1 binder paving began. Paving depth is 2.5¿ loose, 2.25" after rolling. Contractor is paving to depth with 1 Blaw Knox paver without skis or a shuttle buggy. Hypac C778B steel drum hot roller follows immediately behind the paver with 3 vibratory passes. A Bomag BW138AD and another Hypac C778B steel drum cold roller followed after allowing the mat to cool sufficiently. 12:55 am binder paving completed at 673+37. Calculated yield = 129 T, actual yield = 130.20 T. Contractor waited for cold rolling to be completed and nuclear density readings before setting back to begin surfacing. 1:35 am Surfacing begins with 2 pavers. The median shoulder paver leads, paving to string lined off the inlet at depth of 2" loose for 1.75" after rolling. 191+63 back to 677+25 and paved to depth to remove the belly in the shoulder. I checked this area with a 6' level for drainage during paving. 3:30 am paving ended at 192+14. Contractor off site at 4:00 am. Contractor on site to pave binder and surface on NB lane 2 and 3 from 665+57 to 673+37. Binder is 19mm E10 HMA and surface is 12.5mm E10 HMA from The paving foreman is Milling began at 665+57 at 10:10 pm. Mill depth is 4". Layout at the lane 1/2 joint provided by

10:45 pm Paving crew arrives on site and unloads and stages equipment for paving.

and I. Milling inspected by **see his IDR for details**.

12:30 am First truck arrived on site and binder paving began. Binder depth is 2.5¿ loose, 2.25" after rolling. Contractor is paving to depth with 2 Blaw Knox pavers without skis or a shuttle buggy. Hypac C778B steel drum hot roller follows immediately behind the paver with 3 vibratory passes. A Bomag BW138AD and another Hypac C778B steel drum cold roller followed after allowing the mat to cool sufficiently.

1:45 am Binder paving completed at 673+37. Bill adjusted the last binder ticket to reflect 10 tons waste. Calculated yield = 257 T, actual yield = 250.52 T. Contractor waited for cold rolling to be completed and nuclear density readings before setting back to begin surfacing.

2:10 am Surfacing begins with 2 pavers. Surface depth is 2" loose for 1.75" after rolling.



2:50 am Surface paving ended at 673+37. Calculated yield = 200 T, actual yield = 190 T. T. Tagadjusted the last surface ticket to reflect 5.7 tons waste. Contractor off site at 3:30 am.

Proposal/Contract 20130108008 I 43 NORTH SOUTH Project Manager								
Project Leader (PM pre - 2006)								
Prime Contractor								
Diary Date	Diary Author							
06/14/13	Sunrise	Sunset	Tem	peratures				
145	05:12	20:33	High: 6	6 Low:	55			
Remarks	Expanded View		-					
No Remarks		Workers Description Foreman Operator Truck Drivers	Number Hours 1 8 12 8 24 6	Blaw Knox PF-3200 Paver Bomag BW138 Roller Dump: K&B Trucking Dump: Patriot Dump: Rodriguez Trucking Dump: Sobczyk Trucking Dump: Sobt Star Dump: WTS F250 Pickup Hamm HD120 Roller Hypac C7788 Roller	Number H 2 1 2 4 3 3 7 5 1 1 1 1 1	Hours 8 6 6 6 6 8 8 8 8 8		
	-			IR PT240 Rubber Tire Roller New Holland C190 Skid Ste RoadTec Shuttle Buggy Sakai SW850 Roller Street Sweeper Supply Truck w/ Trailer Tack Truck		8 8 8 7 8 7		

Getting Paid

- Document daily production
 - Mix types and quantities
- Document placement locations
- Prompt payments
- Retainers

