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OVERVIEW

All Plantmix and Recycled Bituminous Surfacing Items must be measured. Documentation examples for a few selected Plantmix and Recycled Bituminous Surfacing Items are illustrated in this chapter. If there are items which cannot be documented according to the following examples, contact the Construction Admin Services Section for assistance.

When material samples are taken for the Materials Division labs, refer to the AWP Sample Records document for details.

Forms change periodically, go to the NDOT Website Construction Forms Area for the latest form available.

HOT PLANT/MARINATION INSPECTOR'S RESPONSIBILITIES - PLANTMIX SURFACING ITEMS

- Receive a copy of the current Jobmix Formula from the Office Engineer.
- Complete the Daily Plant Inspector spreadsheet (Form No. 040-011A) and attach to the Mobile Inspector Report Details. Refer to Part 3, Forms, in the Field Testing Guide for details. Contact Construction Division Quality Assurance for assistance.
 - Make sure to record ALL Plantmix Wasted in the Report of Asphalt Quantities section of the 040-011A form.
- Collect a Bill of Lading (B/L) (Figure 10-1) for each delivery of asphalt cement and/or mineral filler.
 - Record the contract ID in the upper right-hand corner.
 - · Check and initial all weight calculations.
 - Turn into the Office Engineer each day.



Figure 10-1: Bill of Lading

DAILY WORK REPORT (DWR) - MOBILE INSPECTOR (PLANTMIX SURFACE)

- Create a DWR in Mobile Inspector (Details only) daily to document the activity being monitored at the plant. Refer to the <u>Mobile Inspector User</u> <u>Guide</u> for details on using this application.
- 2. Record the following required information in the Report Details window (Figure 10-2):
 - Date
 - Weather
 - Low Temp and High Temp
 - Attachments: Attach the completed Daily Plant Inspector spreadsheet (Form No. 040-011A)
 - Remarks: Record the following information:
 - Checks every hour to determine bit ratio
 - Average daily bitumen ratio, calculated from daily totals of mix, aggregate, and asphalt.
 - Quantities of material delivered to the plant, plant settings, and moisture corrections.
 - Plant production rate and plant operation times, noting any time the plant is not in operation and the reason why.
- Complete a final review of the DWR, lock the report, and Sync Data.

Note: When a Mobile Inspector DWR is completed and locked the information is uploaded into an AWP DWR where it is reviewed and generated.

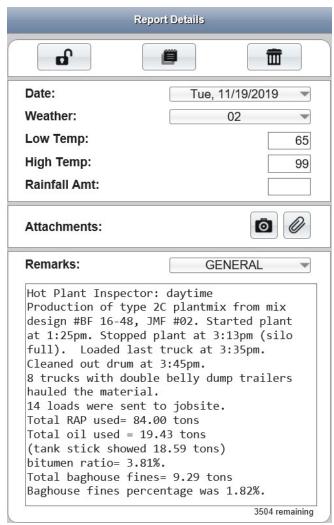


Figure 10-2: DWR Report Detail Window (Hot Plant/Marination Inspector)

DAILY WORK REPORT (DWR) - AWP EDITS

The Officer Engineer reviews each Inspector's DWRs for required entries and accuracy. If edits are needed on a DWR, the Inspector who created it may be required to log into the AWP program on a computer (not the iPAD) and complete the edits. Refer to Chapter 5, Daily Work Reports, Section, Editing a Mobile Inspector DWR, in the AWP User Guide With Materials for details.

RECORD OF DELIVERY - ASPHALT CEMENT, MINERAL FILLER SPREADSHEET

The Record of Delivery – Asphalt Cement, Mineral Filler spreadsheet (Figure 10-3) is used to track the asphalt cement and mineral filler that was delivered to the project. A separate spreadsheet is used for each type of material. The spreadsheets are used as part of the source documents for payment.

- Open the Record of Delivery Asphalt Cement, Mineral Filler spreadsheet received in an email from the Office Engineer. Refer to the How to Manage Load Sheets document located on SharePoint under Construction Administrative Services Documents, Manuals and Guides, EDOC for details on maintaining the spreadsheet.
- 2. Record the following information from the B/L into the spreadsheet (Figure 10-3):

- Contract Number
- **Description**: Material type
- Inspector: Initials or name
- Date
- Bill of Lading No.
- Truck No.
- Trailer No. (if applicable)
- Tons
- 3. Email the completed spreadsheet to the Office Engineer at the end of each day.

Contract No.: 3583 Description: PG 76-NV				Total Tons	: 154.78		
Inspector	Date	Bill of Lading No.	Truck No.	Trailer No.	Tons	Cumulative Tons	Remarks
NPW	08/06/2016	56007	12380	125	22.55	22.55	
NPW	08/06/2016	56015	1952520	1295	23.72	46.27	
ΓJL	08/07/2016	56020	12380	125	22.89	69.16	
ΓJL	08/07/2016	56028	2340	4852	23.09	92.25	
ΓJL	08/07/2016	56040	1952520	1295	24.66	116.91	
NPW	08/08/2016	56045	1952520	1295	13.96	130.87	
NPW	08/08/2016	56549	12380	125	23.91	154.78	

Figure 10-3: Record of Delivery - Asphalt Cement, Mineral Filler

PLANT RECORD SPREADSHEET

The Plant Record spreadsheet (Figure 10-4) is used to track the materials samples taken each day. Refer to Subsection 106.04, (Control of Material) Samples and Tests, in the Standard Specifications for details.

- Open the Plant Record spreadsheet received in an email from the Office Engineer. Refer to the <u>How to Manage Load Sheets</u> document located on SharePoint under Construction Administrative Services Documents, Manuals and Guides, EDOC for details on maintaining the spreadsheet.
- 2. Record the following information (Figure 10-4):
 - Sample No.
 - Date
 - Time: Mandatory on Plant Record spreadsheet
 - Tons Represented
 - · Inspector's initials
 - Remarks: Add the daily total of wet tons placed
- 3. Email completed spreadsheet to the Office Engineer or the Crew Lab's Supervior/Lead Tester at the end of each day. Each crew will

Plant Record 127.00 Contract No.: 3583 **Total Tons:** Asphalt Type: PG 76-22NV Sample No. Date Time Tons Inspector Remarks (mm/dd/yyyy) Represented (initials) 08/04/2016 6:00 AM 21.00 TMH 8/4 - 1078 wet tons placed 2 08/04/2016 2:00 PM 21.00 TMH 3 08/05/2016 6:05 AM 25.00 TMH 8/5 - 900 wet tons placed 4 08/06/2016 6:00 AM 25.00 TMH 8/6 - 850 wet tons placed 08/07/2016 5:30 AM 17.50 TMH 8/7 - 998 wet tons placed 6 08/07/2016 12:00 PM 17.50 TMH

Figure 10-4: Plant Record Spreadsheet

INSPECTOR'S RESPONSIBILITIES - PLANTMIX SURFACING ITEMS

- Obtain a copy of the Agreement Estimate report to use as a reference to ensure that items and quantities are paid in the correct category (AEB).
- To help identify paving items, use the Summary of Quantities located in the Contract plans.
- Review the following for accuracy:
 - Special Provisions
 - · Supplemental Notices
 - · Change Orders

Note: When any changes are made to an item, reference the Change Order number in the DWR item posting remarks.

Complete the Daily Paving Inspector spreadsheet (Form No. 040-011B) and attach to the Mobile Inspector Report Details. It is important that
all information is accurate to what is shown in the Record of Delivery – Plantmix Surface spreadsheet for that day. Refer to Part 3, Forms, in
the Field Testing Guide for details. Contact Construction Division Quality Assurance for assistance.

Note: Make sure to record ALL Plantmix Wasted on the 040-011B form.

- Retrieve all computerized load tickets and review for the following information:
 - Date
 - Material source
 - Material type
 - · Gross, tare, net weights, and tons
 - Cumulative total tons
 - Time
 - Contract Number
 - Pit Number
- Turn in ALL computerized load tickets into the Office Engineer each day.

RECORD OF DELIVERY - PLANTMIX SURFACE SPREADSHEET

The Record of Delivery – Plantmix Surface spreadsheet is used to track daily material delivered to the job site. The spreadsheet is used as part of the source documents for payment.

10

PLANTMIX AND RECYCLED SURFACE ITEMS

- Open the Record of Delivery Plantmix Surface spreadsheet received in an email from the Office Engineer. Refer to the <u>How to Manage Load Sheets</u> document located on SharePoint under Construction Administrative Services Documents, Manuals and Guides, EDOC for details on maintaining the spreadsheet.
- 2. Record the following information from the computerized load tickets onto the appropriate day tab in the spreadsheet (Figure 10-5):
 - Date
 - Contract Number
 - Item Number
 - Description: Item
 - Tickets Taken By: Initials or name
 - Ticket Number
 - · Truck Number
 - Time: Every fifth load (Optional)
 - Station: Beginning and Ending Station for the day and every change in Line Designation. Each station listed must have a line designation and LT, RT, or CL.
 - Temperature
 - Tons Delivered: From computerized load ticket, indicate any waste at the end of the day.
 - Remarks: Explanations of waste. State the total tons per AEB (category).
- 3. Email the completed spreadsheet to the Office Engineer at the end of each day.

Date:			02/20/2017		(mm/dd/yyyy)	Total Tons	153.46	
Contract No.: Item No. / Description:			3583					
			4020190 - PBS TYPE 2C (WE	T)]			
Tickets ta	ken by:		REW (initials)					
Checked	against scal	e sheet:		(initials)				
Ticket No.	Truck No.	Time	Station	Temperature (°F)	Tons Delivered	Cumulative Tons	Remarks	
5172	192333	11:00 AM	"TJ" 17+70 RT	340	21.99	21.99		
5173	192346	3		335	16.06	38.05		
5174	192333			340	18.41	56.46		
5175	192346			336	19.57	76.03		
5776	192333	12:30 PM	"TJ" 15+90 RT	335	21.10	97.13	AEB # 1 total = 97.13 tons	
5177	192346	1:05 PM	"NP" 10+12RT	330	20.40	117.53		
5178	192333		**************************************	335	20.60	138.13		
5179	192346	1:45 PM	"NP" 8+10 RT	335	20.33	158.46	AEB # 2 total = 56.33 tons	
					-5.00	153.46	Excess material at the end of shift	

Figure 10-5: Record of Delivery - Plantmix Surface

DAILY WORK REPORT (DWR) - MOBILE INSPECTOR (PLANTMIX SURFACE)

- 1. Create a DWR in Mobile Inspector daily to document the activity being monitored. Refer to the <u>Mobile Inspector User Guide</u> for details on using this application.
 - Report Details daily activities
 - Item Postings N/A for Plantmix Ton Items. The item posting will be completed by the Office Engineer in AWP.
 - Equipment type, number and hours used
 - Personnel title and hours
- 2. Record the following required information in the Report Details window (Figure 10-6):
 - Date
 - Weather
 - Low Temp and High Temp

- Attachments: Attach the completed Daily Paving Inspector spreadsheet (Form No. 040-011B)
- Remarks: Select the appropriate Remark Type. Verify with the Resident Engineer on what information is required.

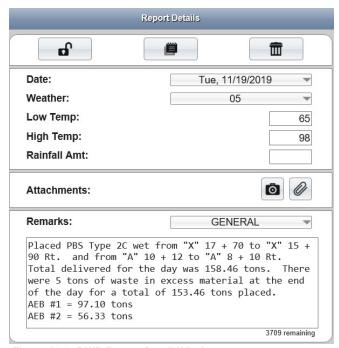


Figure 10-6: DWR Report Detail Window

- 3. Record the following required information in the New Equipment window (10-7 and 10-8):
 - Contractor: Actual contractor performing the work (include subs).
 - Type: Select from the Equipment list
 - Used: How many of each type.
 - Hours Used: Total hours in use.
 - Comments: Details of the type of equipment (e.g., diesel, HP, model, make). Include equipment attachment information if applicable.

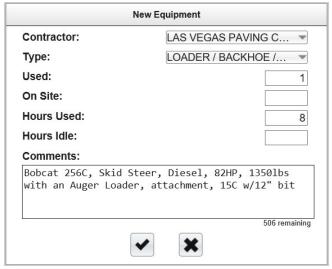


Figure 10-7: DWR Equipment Entry



Figure 10-8: DWR Equipment List

- 4. Record the following required information in the New Personnel window (Figure 10-9 and Figure 10-10):
 - Contractor: Actual contractor performing the work (include subs).
 - Type: Select from the Personnel list.
 - Number: How many of each title.
 - · Total Hours: Total hours worked.
 - Comments: Details of personnel type (e.g., foreman w/name, laborer, truck driver).



Figure 10-9: DWR Personnel Entry



Figure 10-10: DWR Personnel List

5. Complete a final review of the DWR, lock the report, and Sync Data.

Note: When a Mobile Inspector DWR is completed, locked and Synd Data is completed, the information is uploaded into an AWP DWR, where it is reviewed and Approved for processing progress payments.

DAILY WORK REPORT (DWR) - AWP EDITS

The Officer Engineer reviews each Inspector's DWRs for required entries and accuracy. If edits are needed on a DWR, the Inspector who created it may be required to log into the AWP program on a computer (not the iPAD) and complete the edits. Refer to Chapter 5, Daily Work Reports, Section, Editing a Mobile Inspector DWR, in the <u>AWP User Guide With Materials</u> for details.

OFFICE ENGINEER'S RESPONSIBILITIES - PLANTMIX SURFACING ITEMS

- Save and file the Mix Design(s) to the appropriate Contract Files\Contract\08 Scale Weights\8.# MD directory.
- Collect all Bill of Ladings (B/Ls). Scan and save them to the appropriate Contract Files\Contract\08 Scale Weights\8.# BL directory.
 - If the marination is being done for more than one contract make copies of the B/Ls and send them to the other Resident Engineers for the remainder of the project.

Note: Each contract will be listing the same B/Ls. Communicate with the other office personnel and compare what has been used on each contract to assure no B/L is being used more than once.

Collect all Material Certifications. Scan a copy of the Bill of Lading and the Material Certification and save them to the appropriate Contract Files\Materials\03 Cert & Test Reports\3.# directory. Each Material Certification must have the contract ID, bid item and represented quantity entered. Hand-written entries are acceptable for the contract ID, bid item and quantity.

- Name the scanned certificate file(s) with the contract ID, Material Code Name and description, load number (if applicable) CERT (e.g., 03904 M3020130 Type 2 Class A Aggregate Base (CUYD) Load 1 - 25 - CERT.pdf). The Material Code Name and description is found in the NDOT Power BI, AWP Reports, Certification Tracking report.
- If the marination is being done for more than one contract make copies of Material Certifications and send them to the other Resident Engineers for the remainder of the project.
- Create an AWP Materials Cert Sample Record for each Material Certification received. Refer to the <u>AWP Cert Sample Record Creation</u> document and Chapter 24, Progress Payments, in this Manual for details.
- Collect all computerized load tickets from the Inspector(s). Only the last ticket is required for documentation.
- The Transmittal for Test Samples and Certifications (Form No. 020-018) shall be completed by the Office Engineer for the Materials Certifications. If there are any questions concerning this form, contact the Materials Division.
- Save plantmix surfacing item photos in the appropriate Contract Files\Contract\03 Mulimedia\3.# Photos directory.
- Distribute executed copies of Change Orders to Inspectors.

RECORD OF DELIVERY - ASPHALT CEMENT, MINERAL FILLER SPREADSHEET

The Record of Delivery – Asphalt Cement, Mineral Filler spreadsheet (Figure 10-4) is used to track the asphalt cement and mineral filler that was delivered to the project. A separate spreadsheet is used for each type of material. The spreadsheet is used as part of the source documents for payment.

- Email the Record of Delivery –Asphalt Cement, Mineral Filler spreadsheet to Hotplant/Marination Inspector daily. Refer to the <u>How to Manage Load Sheets</u> document located on SharePoint under Construction Administrative Services Documents, Manuals and Guides, EDOC for details on maintaining the spreadsheet.
- 2. Review the entries against the B/Ls.
- 3. Save the updated Record of Delivery –Asphalt Cement, Mineral Filler spreadsheet to the appropriate Contract Files\Contract\08 Scale Weights\8.# directory.

PLANT RECORD SPREADSHEET

The Plant Record spreadsheet (Figure 10-4) is used to track the materials samples taken each day. Refer to Subsection 106.04, (Control of Material) Samples and Tests, in the Standard Specifications for details.

- Email the Plant Record spreadsheet to the Hotplant/Marination Inspector daily. Refer to the How to Manage Load Sheets document located on SharePoint under Construction Administrative Services Documents, Manuals and Guides, EDOC for details on maintaining the spreadsheet
- 2. Coordinate with the individual(s) who created the AWP Sample Records for each sample taken to obtain the Sample Record IDs. Enter the Sample Record IDs into the appropriate Sample No. (Figure 10-11) This is important when calculating liquidated damages.
- 3. Save the updated Plant Record spreadsheet to the appropriate Contract Files\Contract\08 Scale Weights\8.# directory.

Plant Record						
Contract No.:	3583			127.00		
Asphalt Type:	PG 76-22NV				9	
Sample No.	Date (mm/dd/yyyy)	Time	Tons Represented	Inspector (initials)	Remarks	
1 - KMcDan20160805091026	08/04/2016	6:00 AM	21.00	ТМН		
2- KMcDan20160805091135	08/04/2016	2:00 PM	21.00	TMH	8/4 - 1078 wet tons placed	
3-KMcDan20160806073029	08/05/2016	6:05 AM	25.00	TMH	8/5 - 900 wet tons placed	
4- KMcDan20160807092854	08/06/2016	6:00 AM	25.00	TMH	8/6 - 850 wet tons placed	
5- KMcDan20160808103817	08/07/2016	5:30 AM	17.50	TMH		
6- KMcDan20160808110528	08/07/2016	12:00 PM	17.50	TMH	8/7 - 998 wet tons placed	

Figure 10-11: Plant Record Spreadsheet

RECORD OF DELIVERY - PLANTMIX SURFACE SPREADSHEET

The Record of Delivery – Plantmix Surface spreadsheet (Figure 10-12) is used to track daily material delivered to the job site. The spreadsheet is used as part of the source documents for payment.

- Email the Record of Delivery Plantmix Surface spreadsheet to the Inspector daily. Refer to the How to Manage Load Sheets document located on SharePoint under Construction Administrative Services Documents, Manuals and Guides, EDOC for details on maintaining the spreadsheet.
- 2. Save the updated Record of Delivery Plantmix Surface spreadsheet to the appropriate Contract Files\Contract\08 Scale Weights\8.# directory.
- 3. Review the entries in the appropriate day tabs against the computerized load tickets. Ensure that all waste is explained in the Remarks.
- 4. Enter the Plant Inspectors waste from the Report of Asphalt Quantities on Form No. 040-011A. Provide an explanation for any waste in the remarks section.
- 5. Enter initials in the Checked against scale sheet box and save the file.
- Save the completed spreadsheet (Figure 10-12) to the appropriate Contract Files\Contract\08 Scale Weights\8.# directory and email a copy back to the inspector.

Date:			02/20/2017		(mm/dd/yyyy)	Total Tons	153.46		
Contract					,				
Item No.	/ Descriptio	Description: 4020190 - PBS TYPE 2C (WET)							
Tickets ta	kets taken by: REW ((initials)				
Checked	against scal	e sheet:	кмм		(initials)				
Ticket No.	Truck No.	Time	Station	Temperature (°F)	Tons Delivered	Cumulative Tons	Remarks		
5172	192333	11:00 AM	"TJ" 17+70 RT	340	21.99	21.99			
5173	192346			335	16.06	38.05			
5174	192333			340	18.41	56.46			
5175	192346		T. 1 T. 1	336	19.57	76.03			
5776	192333	12:30 PM	"TJ" 15+90 RT	335	21.10	97.13	AEB # 1 total = 97.13 tons		
5177	192346	1:05 PM	"NP" 10+12RT	330	20.40	117.53			
5178	192333			335	20.60	138.13			
5179	192346	1:45 PM	"NP" 8+10 RT	335	20.33	158.46	AEB # 2 total = 56.33 tons		
					-5.00	153.46	Excess material at the end of shift		

Figure 10-12: Record of Delivery - Plantmix Surface

DAILY PLANT REPORT OF ASPHALT MIXTURES FORMS

The Daily Plant Inspector form (Form No. 040-011A) and the Daily Paving Inspector form (Form No. 040-011B) are filled out by the Hotplant and Street Inspectors and are attached to their DWRs for review. Refer to Part 3, Forms, in the <u>Field Testing Guide</u> for details. Contact Construction Division Quality Assurance for assistance with this form.

- 1. Email the Daily Plant Inspector form (Form No. 040-011A) to the Hotplant/Marination Inspector daily.
- 2. Email the Daily Paving Inspector form (Form No. 040-11B) to the Paving Inspector daily.
- 3. Confirm that all the information is correct by viewing the forms in the DWR Attachments.
- 4. Compare the stations on the Daily Paving Inspector form with those on the Record of Delivery Plantmix spreadsheet.

Note: If the jobmix formula is being used on multiple contracts for different Resident Engineers, copies of the completed Daily Plant Inspector forms must be made and emailed to the other Resident Engineers for the remainder of the contracts. This does not relieve any of the other documentation requirements.

LAST COMPUTERIZED LOAD TICKET OF THE DAY

The last computerized load ticket is part of the official contract documentation record for payment.

- 1. Copy the following information from the appropriate day tab in the Record of Delivery Plantmix Surface spreadsheet (Figure 10-12) onto the last computerized load ticket of the day:
 - Beginning and Ending stations, making sure all stations are represented and match the spreadsheet.
 - Indicate line designation left, right or center line.
 - AEB (category) number and total tonnage
 - Waste from the Hotplant/Marination Inspector and the Street Inspector, even if it is zero, and circle in red.
- 2. Have the Resident Engineer sign the ticket.
- 3. Have the person checking the information on the ticket initial it.
- 4. Scan and save the ticket into the appropriate Contract Files\Contract\08 Scale Weights\8.# Scale Tic MD directory.

BILL OF LADING CALCULATION SHEET

The Bill of Lading Calculation Sheet (Figure 10-13) verifies there are enough Bill of Ladings (B/Ls) to cover the quantities placed on the contract based off the mix design (only). Go to the NDOT website Construction Forms, <u>Area: Construction Admin - Payment Forms</u> Area for the latest form available.

- Complete the areas in Blue every two weeks, after Bill of Lading (B/Ls) are collected and recorded on the Record of Delivery Asphalt Cement spreadsheet, and the computerized load tickets are collected and recorded on day tabs of the Record of Delivery – Plantmix Surface spreadsheet.
- 2. Save the completed Bill of Lading Calculation Sheet to the appropriate Contract Files\Contract\08 Scale Weights\8.# Scale Tic MD directory.

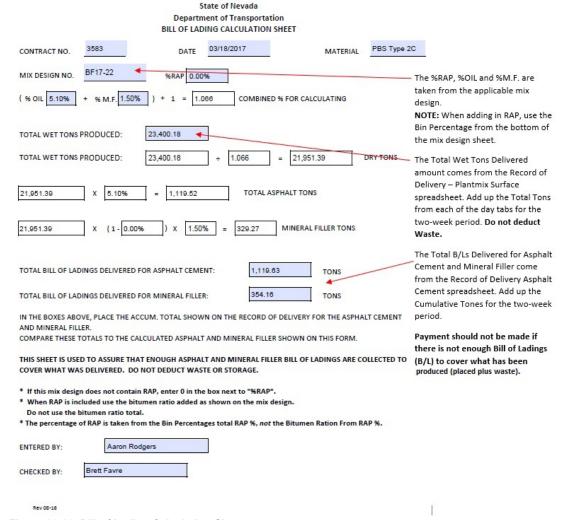


Figure 10-13: Bill of Lading Calculation Sheet

Note: It is the responsibility of the Resident Engineer to work with the contractor to have extra and/or missing B/Ls submitted. These B/Ls must be entered into the Record of Delivery Asphalt Cement spreadsheet.

DAILY WORK REPORT (DWR) - AWP

When a Mobile Inspector DWR is locked by an Inspector, the information is uploaded into an AWP DWR. Refer to Chapter 5, Daily Work Reports, in the <u>AWP User Guide With Materials</u> for details.

INSPECTOR'S DWR

- Verify the following:
 - Information in the Remarks
 - · Information in the Contractor On Site tab
 - · Information in the Contractor Equipment tab
 - · Information in the Contractor Personnel tab
- Approve the DWR if everything is correct.

10

PLANTMIX AND RECYCLED SURFACE ITEMS

- If there are edits required, the Office Engineer may complete them and add a DWR Note with their name, date, and details of the correction.
 The DWR can then be Approved.
- If there are edits which need to be completed by the Inspector who created the DWR, the Inspector will be required to log into the AWP program on a computer (not the iPAD) to complete the edits.
- Review the edited DWR and Approve.

ITEM POSTING DWR

- 1. Create a DWR in AWP to document the item postings for the ton items:
 - In the General tab, enter a Comment related to the item posting.
 - Enter an item posting (Figure 10-14) for the ton item based on the Total Tons for each AEB (category) from the appropriate day tab(s) in the Record of Delivery – Plantmix Surface spreadsheet.

Note: These DWRs can be completed daily, weekly or bi-weekly within the two-week pay period.

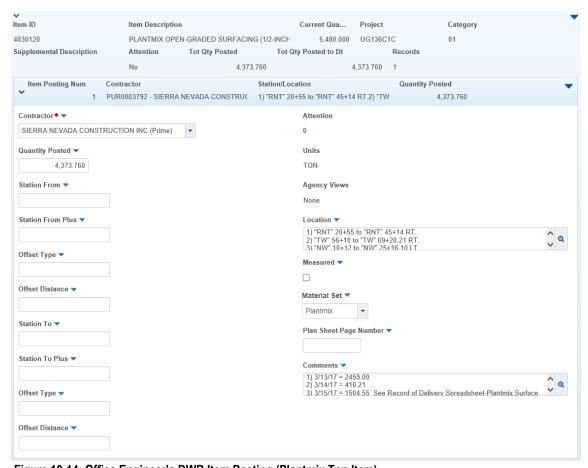


Figure 10-14: Office Engineer's DWR Item Posting (Plantmix Ton Item)

NOTES for Plantmix TON (Figure 10-14):

- Location: Enter the Line Designation and LT, RT, or CL.
- Comments: Reference the Record of Delivery spreadsheet amounts.
- Material Set: Select appropriate value.
- Sig. Fig. = .01
- 2. Approve the DWR.

TONNAGE ITEM SPREADSHEET BY CUTOFF DATE

The Tonnage Item Spreadsheet by Cutoff Date spreadsheet (Figure 10-15) was created as a useful tool to aid in the tracking and payment of ton items. The use of this spreadsheet is not required for ton item documentation. The spreadsheet is found in the NDOT website Construction Forms, Area: Construction Admin - Payment Forms Area. Refer to the Tonnage Items Spreadsheet by Cutoff Date Instructions for details on using this spreadsheet.

- 1. Open the Tonnage Item Spreadsheet by Cutoff Date spreadsheet.
- 2. Complete the spreadsheet information for the two-week period prior to the cutoff date.
- 3. Save the spreadsheet to the appropriate Contract Files\Contract\07 Estimates directory.

				BID	ACT NO: TEM NO: .AN QTY:							
Accum	n Daily To	tal Place	ed/Paid - CATG#		0	0.	00					
Accum	Accum Daily Total Placed/Paid - CATG # 0			0	0.00							
Accum	Accum Daily Total Placed/Paid - CATG # 0			0	0.	00						
	Accum Total PAID ALL CATG's					0.	00					
	Accum Daily Total WASTE ALL CATG's =					0.	00					
	Accum Daily Total DELIVERED ALL CATG's				CATG's =	0.	00					
CUTOFF DATE	CATC #		CATC #	CATC #		Daily Total	Commission of the commission					
COTOFF DATE	CATG # TOTAL PLA	CED/PAID	CATG # TOTAL PLACED/PAID	CATG #	ACED/PAID	Waste (all catg)	DAILY TOTAL PLACED/PAID	ACCUM. TOTAL PLACED/PAID	PMT#	DAILY TOTAL DELIVERED	MIX DESIGN #	COMMENTS
***************************************							0.00	0.00		0.00		
***************************************							0.00	0.00		0.00		
***************************************							0.00	0.00		0.00		
***************************************							0.00	0.00		0.00		
***************************************							0.00	0.00		0.00		
#######################################							0.00	0.00		0.00		

Figure 10-15: Tonnage Item Spreadsheet by Cutoff Date Spreadsheet

INSPECTOR'S RESPONSIBILITIES - RECYCLED BITUMINUOUS SURFACE ITEMS

- Obtain a copy of the Agreement Estimate report to use as a reference to ensure that items and quantities are paid in the correct category (AEB).
- To help identify paving items use the Summary of Quantities located in the Contract plans.
- Review the following for accuracy:
 - Special Provisions
 - Supplemental Notices
 - Change Orders

Note: When any changes are made to an item reference the Change Order number in the DWR item posting remarks.

- Collect a Bill of Lading (B/L) for each delivery of Lime (Cold Recycle).
 - Record the contract ID in the upper right-hand corner.
 - · Check and initial all weight calculations.
 - Turn into the Office Engineer each day.

RECORD OF DELIVERY AND PAYMENT - PORTLAND CEMENT, LIME (COLD RECYCLE) SPREADSHEET

The Record of Delivery and Payment – Portland Cement, Lime (Cold Recycle) spreadsheet (Figure 10-16) is used to track the Bill of Ladings (B/Ls) for daily material delivered to the job site. The spreadsheet is used as part of the source documents for payment.

- Open the Record of Delivery and Payment Portland Cement, Lime (Cold Recycle) spreadsheet received in an email from the Office Engineer. Refer to the <u>How to Manage Load Sheets</u> document located on SharePoint under Construction Administrative Services Documents, Manuals and Guides, EDOC for details on maintaining the spreadsheet.
- 2. Record the following (Figure 10-16):
 - Contract Number
 - Item Number
 - Description: Item
 - Plan Qty.: (tons)
 - · Inspector: Initials
 - Date
 - · Truck No.
 - Trailer No.
 - · Bill of Lading No.
 - · Tons Delivered
 - Tons Wasted
 - . Tons Left in Storage: at the end of the day.

Note: The amounts in Tons Left in Storage will automatically be added to the next day's Tons Used value. If there are any Tons Left in Storage at the end of the contract, they are considered waste and will be subtracted from the total Tons Used.

- · AEB No: category
- · Remarks: leave blank for Office Engineer comments for payment.
- 3. Email the completed spreadsheet to the Office Engineer.

Contract No.: 3585 Item No.: 4040140 Item Description: Lime (Cold Recycle)		3585			Total Tons Delivered: 98.60							
		4040140					88					
Plan Qty.	(tons):	420.00			Total	Tons Used:	79.60					
Inspector	Date	Truck No.	Trailer No.	Bill of Lading No.	Tons Delivered	Tons Wasted	Tons Left in Storage	Tons Used & Paid	1	AEB No.	Remarks	
CAW	02/14/2017	45	492	11017	25.15	2.00	0.00	23.15	9			
CAW	02/15/2017	390	391	11121	26.05	5.00	0.00	21.05	9			
CAW	02/18/2017	65	65A	11128	24.15	0.00	0.00	24.15	9			
CAW	02/19/2017	4	4A	11129	23.25	2.00	10.00	11.25	9			

Figure 10-16: Record of Delivery & Payment - Lime (Inspector's Entries)

DAILY WORK REPORT (DWR) - MOBILE INSPECTOR (LIME - TON)

Create a DWR in Mobile Inspector daily to document the activity being monitored. Refer to the <u>Mobile Inspector User Guide</u> for details on using this application.

Note: Refer to Steps 1 through 3 in the Daily Work Report (DWR) – Mobile Inspector (Plantmix Surface) section, in this chapter, for details on completing the Report Details, Equipment and Personnel for the lime item. The Office Engineer will complete these item postings.

DAILY WORK REPORT (DWR) - MOBILE INSPECTOR (RECYLED BITUMINOUS - SOYD)

1. Create a DWR in Mobile Inspector daily to document the activity being mRefer onitored. to the <u>Mobile Inspector User Guide</u> for details on using this application.

Note: Refer to Steps 1 through 4 in the Daily Work Report (DWR) – Mobile Inspector (Plantmix Surface) section, in this chapter, for details on completing the Report Details, Equipment and Personnel for the recycled bituminous items.

- 2. Record the following required information in the New Item Postings window (Figure 10-17):
 - Item: Select the appropriate Project/Catg., if item is in more than one Project/Catg. Refer to the AEB report.
 - Contractor: ALWAYS the Prime Contractor (Subs are not allowed).
 - Qty: Based on plan, measurements and calculations
 - Material Set: Select appropriate value (if applicable)
 - Location: Line Designation
 - Station From/To: Refer to Contract plans.
 - Offset Type: Enter the LT, RT, or CL.
 - · Offset Dist.: Enter if known.
 - Comments: Must show calculations when appropriate, refer to Calculation Sheet when appropriate (refer to Appendix B, Calculation Formulas, in this Manual for a Calculation Sheet example), other information relevant to item posting, and explanations when Attention Flag is checked.
 - Attention Flag: Use to bring attention to Resident Engineer and Office Engineer for overruns and plan errors. Must enter Attention Comments.



NOTES for Recycled Bituminous SQYD (Figure 10-17):

- Payment for SQYD items will be based on field measurements and calculations.
- Calculation for SQYD = L x W ÷ 9
- Location: Enter the Line Designation
- Station From/To: Refer to Contract plans
- Offset Type: Enter the LT, RT, or CL.
- Offset Dist: Enter if known
- Sig. Fig. = .01

Figure 10-17: DWR Item Posting – Recycled Bituminous SQYD

3. Complete a final review of the DWR, lock the report, and Sync Data.

Note: When a Mobile Inspector DWR is completed, locked and Synd Data is completed, the information is uploaded into an AWP DWR, where it is reviewed and Approved for processing progress payments.

DAILY WORK REPORT (DWR) – AWP EDITS

The Officer Engineer reviews each Inspector's DWRs for required entries and accuracy. If edits are needed on a DWR, the Inspector who created it may be required to log into the AWP program on a computer (not the iPAD) and complete the edits. Refer to Chapter 5, Daily Work Reports, Section, Editing a Mobile Inspector DWR, in the AWP User Guide With Materials for details.

OFFICE ENGINEER'S RESPONSIBILITY - RECYCLED BITUMINOUS SURFACE ITEMS

- Collect all Bill of Ladings. Scan and save them to the Contract Files\Contract\08 Scale Weigts\8.# Lime BL directory.
- Collect all Material Certifications. Scan a copy of the Bill of Lading and the Material Certification and save them to the appropriate Contract Files\Materials\03 Cert & Test Reports\3.# directory. Each Material Certification must have the contract ID, bid item and represented quantity entered. Hand-written entries are acceptable for the contract ID, bid item and quantity.

- Name the scanned certificate file(s) with the contract ID, Material Code Name and description, load number (if applicable) CERT (e.g., 03904 M4040140 Lime (Cold Recycle) - CERT.pdf). The Material Code Name and description is found in the NDOT Power BI, AWP Reports, Certification Tracking report.
- Create an AWP Materials Cert Sample Record for each Material Certification received. Refer to the <u>AWP Cert Sample Record Creation</u> document and Chapter 24, Progress Payments, in this Manual for details.
- Save item photos in the appropriate Contract Files\Contract\03 Multimedia\3.# Photos directory.
- Review item calculation sheets for accuracy and save electronically in the appropriate Contract Files\Contract\07 Estimates\7.# Calc Sheets
 directory using this naming convention: DWR YYYY-MM-DD Inspectors Initials, (e.g. DWR 2017-03-19 KMM).
- Distribute executed copies of Change Ordersto Inspectors.

RECORD OF DELIVERY AND PAYMENT - PORTLAND CEMENT, LIME (COLD RECYCLE) SPREADSHEET

The Record of Delivery and Payment – Portland Cement, Lime (Cold Recycle) spreadsheet (Figure 10-18) is used to track the Bill of Ladings (B/Ls) for daily material delivered to the job site. The spreadsheet is used as part of the source documents for payment.

- Email the Record of Delivery and Payment Portland Cement, Lime (Cold Recycle) spreadsheet to the Inspector daily. Refer to the How to Manage Load Sheets document located on SharePoint under Construction Administrative Services Documents, Manuals and Guides, EDOC for details on maintaining the spreadsheet.
- 2. Save the updated Record of Delivery and Payment Portland Cement, Lime (Cold Recycle) spreadsheet, received in an email from the Inspector, to the appropriate Contract Files\Contract\08 Scale Weights\8.# Lime directory.
- 3. Verify the following:
 - Entries match the information on the Bill of Ladings (B/Ls).
 - Plan Qty. (tons)
 - · Waste and storage was recorded.
 - Correct AEB (category)
- 4. Enter the total Tons Used for each AEB (category) and the payment number in the Remarks section.
- 5. Save the completed the Record of Delivery and Payment Portland Cement, Lime (Cold Recycle) spreadsheet, to the appropriate Contract Files\Contract\08 Scale Weights\8.# Lime directory.

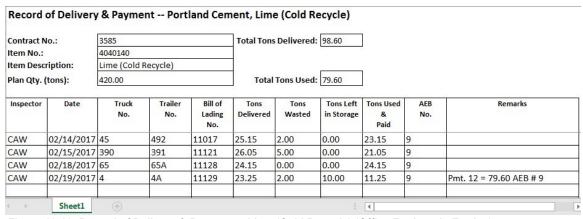


Figure 10-18: Record of Delivery & Payment - Lime (Cold Recycle) (Office Engineer's Entries)

DAILY WORK REPORT (DWR) AWP (LIME - TON)

When a Mobile Inspector DWR is locked by an Inspector, the information is uploaded into an AWP DWR. Refer to Chapter 5, Daily Work Reports, in the AWP User Guide With Materials for details.

INSPECTOR'S DWR

- Verify the following:
 - Information in the Remarks
 - Information in the Contractor On Site tab
 - · Information in the Contractor Equipment tab
 - Information in the Contractor Personnel tab
- Approve the DWR if everything is correct.
- If there are edits required, the Office Engineer may complete them and add a DWR Note with their name, date, and details of the correction.
 The DWR can then be Approved.
- If there are edits which need to be completed by the Inspector who created the DWR, the Inspector will be required to log into the AWP program on a computer (not the iPAD) to complete the edits.
- Review the edited DWR and Approve.

ITEM POSTING DWR

- 1. Create a DWR in AWP to document the item postings for Portland Cement and Lime ton items:
 - In the General tab, enter a Comment related to the item posting.
 - Enter an item posting (Figure 10-19) for the lime (cold recycle) item based on the Tons Used for each AEB (category) from the Record of Delivery & Payment – Portland Cement, Lime (Cold Recycle) spreadsheet.

Note: These DWRs can be completed daily, weekly or bi-weekly within the two-week pay period.

2. Approve the DWR.

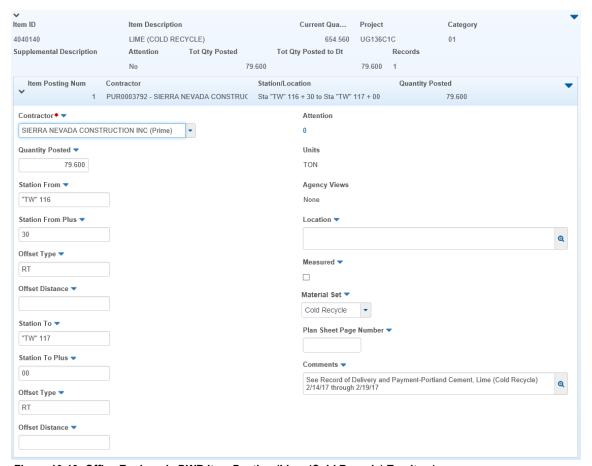


Figure 10-19: Office Engineer's DWR Item Posting (Lime (Cold Recycle) Ton Item)

NOTES for Lime (Cold Recycle) TON (Figure 10-19):

- Station From/To: Refer to Contract plans
- Offset Type: Enter the LT, RT, or CL.
- Offset Dist: Enter if known
- Material Set: Select appropriate value (if applicable)
- Comments: Reference the Record of Delivery spreadsheet.
- Sig. Fig. = .01

DAILY WORK REPORT (DWR) AWP (RECYCLED BITUMINOUS - SQYD)

When a Mobile Inspector DWR is locked by an Inspector, the information is uploaded into an AWP DWR. Refer to Chapter 5, Daily Work Reports, in the AWP User Guide With Materials for details.

- Verify the following:
 - · Information in the Remarks
 - Information in the Contractor On Site tab
 - Information in the Contractor Equipment tab
 - · Information in the Contractor Personnel tab
 - Items are paid correctly according to the contract documents (e.g., plans, supplemental notices, Change Orders).
 - · Item quantities
 - Quantities in postings are documented to the correct Significant Figure (.01)
 - · Material Set is correct.

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PLANTMIX AND RECYCLED SURFACE ITEMS

- Stations and Line Designations in the Locations
- · Calculations are correct.
- Comments reference calculation sheets, if applicable.

Note: Length does not always equal the difference between the beginning and ending station. Sometimes there is a curve or an obstacle that will affect the distance. Always check with the Inspector before assuming the calculations are incorrect.

- 2. Approve the DWR if everything is correct.
- 3. If there are edits required in the DWR, Reject it.
- 4. Notify the Inspector who created the DWR there are edits to be completed. The Inspector will be required to log into the AWP program on a computer (not the iPAD) to complete the edits.
- 5. Review the corrected DWR and Approve.