

AWP – Materials for Construction

Dan Brayack

Daniel.A.Brayack@wv.gov

c.304 549 2017

Overview

- PowerPoint that hits the points of the agenda
 - Examples
 - Available for Download
- Live Example

Base Assumptions



You can do an Item Posting (training guides on this from Contract Admin)



You've used AWP on a project in some capacity.



Materials – for Non-Materials Folks

- All a matter of “locks and “keys”
- You need to have the right “key” for the “lock”
- Some materials have multiple locks, requiring multiple keys.
- If have you the wrong key, the lock doesn’t open
- If you have a lock that you don’t need, you (District Materials) need to remove it.



Number 1 rule of AWP Questions

When asking a question, always lead with the link...

When submitting something for review....lead with the link.....

For every webpage that isn't a generated report

- Dear Dan,
 - I am having issues with this DWR. Here is the link:
 - <https://wvdot-pr-dev.infotechinc.com/#/DailyWorkReport/57263/Summary>
- Yours Truly,
- Rob at District 1

Contract Daily Work Report Summary

▾ Contract: 2015000594 - St Albans Streetscape 2014
Save ▾ ?

DWR Date: 08/22/2024 Inspector: A017965 Sequence: 1 Status: Draft

- General
- Notes (For Approved DWRs ONLY)
- Contractors On Site
- Contractor Equipment
- Contractor Personnel
- Postings
- Acceptance Records
- Force Account Contractors

Select Items...

0 marked for deletion | 0 changed

Item ID	Item Description	Project	Category	Records
605004-001	TYPE B INLET	2015000594	0001	2
Line Number	Supplemental Descrip...	Attention	Tot Qty Posted	Tot Qty Posted to Dt
0045		No	10.000	11.000
>	1	55-0756636 - JIM CONSTRUCTIC	Sta 0+00 + 2+00 to Sta + Place	3.000
Item Posting ...	Contractor	Station/Location	Tot Qty Posted	
>	2	55-0756636 - JIM CONSTRUCTIC	Sta + to Sta + Location Informat	7.000

Material Set?



**Is just that. A set of
materials**



Why?

In some cases, there are two or more paths
for an Item.

Example: Type B Inlet



Material Set Summary

Item: 605004-001 - TYPE B INLET - EA - EACH

Material Set Cast in Place

Materials

Select Materials...

Material	Conversion Factor	Unit
707.009.000 - Curing, Concrete, Liquid Membrane (1.00000	GAL - Gallon
605.002.000.01 - Steel, Welded Grates for Inlets	1.00000	EA - EACH
601.003.003.02 - Concrete, Class B, With Fly Ash, 5	1.00000	CY - CUBIC YARD

Cast-In-Place

Material Set Summary

Item: 605004-001 - TYPE B INLET - EA - EACH

Material Set **Pre-Cast**

Materials

Select Materials...

Material	Conversion Factor	Unit
715.019.000.05 - Inlet, Type B (Precast)	1.00000	EA - EACH
605.002.000.01 - Steel, Welded Grates for Inlets	1.00000	EA - EACH

Pre-Cast

How do you post?

- On the posting, you need to select the applicable material set.
- 1st – Easy Example
- Entire Project is Pre-Cast

Create a DWR as Normal (not shown)

- On the item posting, select the appropriate Material Set
- For Items with only 1 Material Set (most items) – this is auto populated.
- If you try to save without a Material Set, you get an error.

There are unsaved changes.

Save



Contractor Personnel

Postings

Acceptance Records

Force Account

Contractors

Line Number	Supplemental Description	Attention	Tot Qty Posted	Tot Qty Posted to Dt
0045		No	0.000	1.000

Item Posting ...	Contractor	Station/Location	Tot Qty Posted	
▼	-	Sta + to Sta +	3.000	✖

Contractor* ▼

JIM CONSTRUCTION, INC. (Prime) ▼

Attention

0

Tot Qty Posted ▼

3.000

Units

EA

Beginning Station ▼

0+00

Agency Views

None

+ ▼

2+00

Location ▼

Placement Text 🔍

Offset Type ▼

Measured ▼

Offset Distance ▼

Material Set* ▼

Ending Station ▼

Plan Sheet Page Number ▼

+ ▼

Comments ▼

Offset Type ▼

Error: No rows saved; detected rows with errors. Please review messages below. 

- Material Set: Invalid value "; value is required. (custom rule)

[Show All](#) | [Show Errors](#)

ports

Contract Administration

Contract Daily Work Reports

Contract Materials and Accep

None

Location ▼

Measured ▼

Material Set* ▼

- Cast in Place
- Pre-Cast

Comments ▼

Contractor* ▼

JIM CONSTRUCTION, INC. (Prime) ▼

Tot Qty Posted ▼

3.000

Beginning Station ▼

0+00

+ ▼

2+00

Offset Type ▼

Offset Distance ▼

Ending Station ▼

+ ▼

Offset Type ▼

Attention

0

Units

EA

Agency Views

None

Location ▼

Placement Text 


Measured ▼

Material Set* ▼

Pre-Cast ▼

Plan Sheet Page Number ▼

Comments ▼





More Complicated?


Not Likely, but to Illustrate the Point



Same Line #

3 cast in place

7 pre-cast



Create a new posting, one for each (on one DWR)

Contract Daily Work Report Summary

Contract: 2015000594 - St Albans Streetscape 2014

Save



DWR Date: 08/22/2024

Inspector: A017965

Sequence: 1

Status: Draft

General

Notes (For Approved DWRs ONLY)

Contractors On Site

Contractor Equipment

Contractor Personnel

Postings

Acceptance Records

Force Account Contractors

Select Items...

0 marked for deletion | 0 changed

Item ID	Item Description	Project	Category	Records
605004-001	TYPE B INLET	2015000594	0001	1
Line Number	Supplemental Descrip...	Attention	Tot Qty Posted	Tot Qty Posted to Dt
0045		No	3.000	4.000
>	1	55-0756636 - JIM CONSTRUCTIC	Sta 0+00 + 2+00 to Sta + Place	3.000

Contract: 2015000594 - St Albans Streetscape 2014

Save [dropdown] [help icon]

DWR Date: 08/22/2024

Inspector: A017965

Sequence: 1

Status: Draft

- General
- Notes (For Approved DWRs ONLY)
- Contractors On Site
- Contractor Equipment
- Contractor Personnel
- Postings
- Acceptance Records
- Force Account Contractors

Select Items...

0 marked for deletion | 0 changed

Item ID	Item Description	Project	Category	Records
605004-001	TYPE B INLET	2015000594		
Line Number	Supplemental Descrip...	Attention	Tot Qty Po	
0045		No		
>	1	55-0756636 - JIM CONSTRUCTIC	Sta 0+00 + 2+00 to St	

Actions [close]

- Delete
- New Posting
- Views
- Attachments (0)
- DWR Item Attention Flags...
- Links
- Tracked Issues

Offset Type ▼

Offset Distance ▼

Ending Station ▼

+ ▼

Offset Type ▼

Location Information



Measured ▼

Material Set* ▼

Cast in Place ▼

Plan Sheet Page Number ▼

Comments ▼



Contract: 2015000594 - St Albans Streetscape 2014

Save [dropdown] [help icon]

DWR Date: 08/22/2024

Inspector: A017965

Sequence: 1

Status: Draft

- General
- Notes (For Approved DWRs ONLY)
- Contractors On Site
- Contractor Equipment
- Contractor Personnel
- Postings
- Acceptance Records
- Force Account
- Contractors

Select Items...

0 marked for deletion | 0 changed

Item ID	Item Description	Project	Category	Records
605004-001	TYPE B INLET	2015000594	0001	2
Line Number	Supplemental Descrip...	Attention	Tot Qty Posted	Tot Qty Posted to Dt
0045		No	10.000	11.000
>	1	55-0756636 - JIM CONSTRUCTIC	Sta 0+00 + 2+00 to Sta + Place	3.000
Item Posting ...	Contractor	Station/Location	Tot Qty Posted	
>	2	55-0756636 - JIM CONSTRUCTIC	Sta + to Sta + Location Informat	7.000

What Materials?

- Check the acceptance record. It shows the posted materials

Contract Daily Work Report Summary

Contract: 2015000594 - St Albans Streetscape 2014
Save
?

DWR Date: 08/22/2024 Inspector: A017965 Sequence: 1 Status: Draft

- General
- Notes (For Approved DWRs ONLY)
- Contractors On Site
- Contractor Equipment
- Contractor Personnel
- Postings
- Acceptance Records
- Force Account Contractors

Advanced Showing 2 of 2

0 changed

Item ID	Item Description	Project ID	Category ID	Line Number
605004-001	TYPE B INLET	2015000594	0001	0045
Location	Sequence	Qty Posted	Material Set*	Materials
Placement Text	1	3.000	Pre-Cast	2
605004-001	TYPE B INLET	2015000594	0001	0045
Location Information	1	7.000	Cast in Place	3

Q Type search criteria or press Enter

Advanced

Showing 2 of 2

0 changed

Item ID	Item Description	Project ID	Category ID	Line Number	
605004-001	TYPE B INLET	2015000594	0001	0045	
Location	Sequence	Qty Posted	Material Set*		Materials
Placement Text		1	3.000	Pre-Cast	2
Material	Represented Qty	Source	Facility	SMFMI	
605.002.000.01 - Steel, Wel		-	-		
Material Units	Conversion Factor	Reported Matl Qty	Cont Est Matl Qty	Sat Rep Matl Qty	
EA	1.00000	3.00000	1.00000	0.00000	
715.019.000.05 - Inlet, Type		-	-		
EA	1.00000	3.00000	1.00000	0.00000	
605004-001	TYPE B INLET	2015000594	0001	0045	
Location Information		1	7.000	Cast in Place	3

What if you make a mistake?

If you haven't run the estimate, you can delete the posting instance (not the entire posting) and repost.

Once you've approved the estimate (at least in version 5.00), you're locked in.

District Materials

- District Materials is trained to address this issue.
- We can tailor the acceptance actions to get the “Glove to Fit”
- Central MCST can help if its complicated.
- TLDR: Try not to make this mistake. If you do, let District Materials know as soon as you can.
- Also, be as specific as possible
- Send them the link!

Why isn't my line paying?

- Project hasn't met material requirements.
- Project people: APLs. These are done on the DWR.
- Materials people: Sample records are missing
- How do you know?
 - Run the Detailed Material Exceptions Report.

Detailed Material Exceptions Report

[Progress Overview](#) [Change Orders](#) [Contract Administration](#) [Contract Materials and Acceptance Actions](#) [Contract Progress](#) [Items](#) [Payment Estimates](#) [Projects](#) [Subcontracts](#)

Contract Payment Estimate Summary

2015000594 - St Albans Streetscape 2014 Save ?

Payment Est Num: 0007 Period End Date: 06/09/2023 11:00:00 PM Type: Progress Status: Approved

General
Notes
Exceptions
Time Charges
Projects
Items
Contract Adjustments
Item Adjustments
Approval Tracking
Accounting

Adjustment: No Filter

Showing 15 of 15

Exception ID	Payment Estimate Exception	Status	
> 1	Insufficient Materials	Acknowledged	
> 2	Insufficient Materials	Acknowledged	
> 3	Insufficient Materials	Acknowledged	
> 4	Insufficient Materials	Acknowledged	
> 5	Insufficient Materials	Acknowledged	No
> 6	Insufficient Materials	Acknowledged	No
> 7	Insufficient Materials	Acknowledged	No
> 8	Insufficient Materials	Acknowledged	No
> 9	Insufficient Materials	Acknowledged	No
> 10	Insufficient Materials	Acknowledged	No
> 11	Insufficient Materials	Acknowledged	No

Actions: *There are no actions available.*

Views: Attachments (4), Issues

Links: Reports (Detailed Insufficient Materials Report, Insufficient Materials Report), Items with Unpaid Placed Quantities, Payment Estimate for Contractor, Payment Estimate Report



Division of Highways

08/22/2024 16:22:25

Detailed Insufficient Materials Report

Report v1

Contract: 2021000235 - Airport Rd - Glade Creek Estimate Number: 12 Estimate Status: Pending Approval Estimate Date: 11/3/2023

Item: 506001-003 - CONCRETE PAVEMENT REPAIR, TYPE I, THICKNESS, 14,926.680

Supp Descr: 12" Item Qty Pd To Dt: 14,926.680 Item Qty Whld Due to Matis: 0.000

Contract Line Number: 0030 Item Qty Remaining: 0.000 Item Unit Price: \$280.00

Project Item Line Number: 0030 Item Amt Remaining: \$0.00 Item Amt Whld Due to Matis: \$0.00

Insufficient Materials

Material Set	Matl Set Posted To Dt	Material	Conversion Factor	Appr Satisfied Matl Qty	Appr Reported Matl Qty	Appr Remaining Satisfied Qty	In Other Items
Default	14,926.680	601.003.003.02 - Concrete, Class B, With Fly Ash, Slag Cement, Natural SCM	1	51,500.000	14,926.68000	36,573.320	No

Exceptions	Withholding Payment?
Lab-QA is insufficient.	No
Lab-QC is insufficient.	No
QA - Field - PCC Sim. is insufficient.	No



Division of Highways

08/22/2024 16:24:07

Detailed Insufficient Materials Report

Report v1

Item: 604037-022 - 30 INCH REINFORCED CONCRETE PIPE, CLASS	Item Qty Posted To Dt:	203.330		
Supp Descr: III	Item Qty Pd To Dt:	26.000	Item Qty Whld Due to Matls:	109.830
Contract Line Number: 0885	Item Qty Remaining:	177.330	Item Unit Price:	\$415.00
Project Item Line Number: 0885	Item Amt Remaining:	\$73,591.95	Item Amt Whld Due to Matls:	\$45,579.45

Insufficient Materials

Material Set	Matl Set Posted To Dt	Material	Conversion Factor	Appr Satisfied Matl Qty	Appr Reported Matl Qty	Appr Remaining Satisfied Qty	In Other Items
Default	203.330	716.001.001.2 - Granular Material	1	101.665	203.33000	-101.665	No
				Exceptions	Withholding Payment?		
				Gradation - QC is insufficient.	Yes		

I Added My APL. Its still holding money?

- When you add a new DWR (Acceptance record for APL)
 - You need to delete and re-run the estimate.
- When contacting District or Central Materials, have the Estimate Up. If not, the first thing we will ask is to run the estimate and send us the ...
- The DWR date needs to be within the estimate period

Still having issues?

- SEND THE LINK!!!
- Dear Amy,
- My estimate isn't paying.
- <https://wvdot-pr-dev.infotechinc.com/#/PaymentEstimate/5160/Summary>
- Thanks!
- June from D9


Speaking of Payment

- Memo – addressing the “Exclude from Pay Estimate”
- What does “Exclude from Pay Estimate” do?
- It overrides the withholding of payment
 - There is still a material exception which must be acknowledged
 - This needs to be addressed before the final estimate can be approved.

- We've discussed this in our Materials Focused Monthly Meeting
 - There are valid reasons to do this.
 - "Not enough staff" isn't a valid reason
 - Staying out of the weeds for this meeting.

Speaking of Payment...

We have a report that shows this...
 With names



*West Virginia
 Department of Transportation*

Contract Exclude from Pay Estimate Metric

New Instances - 1 Month (07/22/2024-08/22/2024)

Total Instances			Instances by Person			
District	Total Instances	% of Total	Name	District	Total Instances	% of Total
District	1	6.7%	[Redacted]	District	1	6.7%
District	5	33.3%	[Redacted]	District	3	20.0%
District	2	13.3%	[Redacted]	District	2	13.3%
District	4	26.7%	[Redacted]	District	1	6.7%
District	3	20.0%	[Redacted]	District	1	6.7%
Totals	15	100.0%	[Redacted]	District	1	6.7%
			[Redacted]	District	3	20.0%
			[Redacted]	District	3	20.0%
			Totals		15	100.0%

Exclude from Pay Estimate Report - D1 ▶ Inbox x



Brayack, Daniel A <daniel.a.brayack@wv.gov>

Thu, Sep 5, 3:32 PM (12 days ago)

to Ron, Jonathan ▼

Greetings,

I'm sending out the exclude report for the past two months to each of the Districts.

As a note, your District has no current exclusions from this time period that are still active.

Daniel Brayack

Assistant Director, Policy and Certification

Monthly EOM Report – District Specific

Contract Exclude from Pay Estimate

Line #	Material Code/Name	Acceptance Action Name	Test Method
0355	Granular Material	Compaction-QC	AWP106.22 - T317 - Compaction
0825	Concrete, Class B, With Fly Ash, Slag Cement, Natural SCM	Field-QC	AWP601.03 PCC QA/QC - PCC
0120	Concrete, Class B, With Fly Ash, Slag Cement, Natural SCM	Field-QC	AWP601.03 PCC QA/QC - PCC
0375	19 mm Asphalt Mix, Superpave	Compaction-QC	AWP106.16 - T401 - Compaction
0385	25 mm Asphalt Mix, Superpave	Compaction-QC	AWP106.16 - T401 - Compaction

Example Report

Negative Estimate?

- If you previously overrode materials
- Then uncheck the box
 - It goes in and takes it back...

Negative First Estimate

- You will get an error, and it will not run.
- You need to get your materials in order.
- This is a call to your District Materials
- They will run the sampling checklist and see what is missing
- You can run “Evidence of Inspection” Sample Records and DWRs
(Two separate reports, both starting with “Evidence of Inspection...”)

Generate Report

Generate Report Execute ?

Settings Select Report 1 of 5

Q evidence Advanced Showing 2 of 2

0 selected

Report	Data
Evidence of Inspection DWRs	Contract
Evidence of Inspection Sample Records	Contract

Specific Example

- Cylinders were created.
- By default, we do not hold payment on these.
 - BUT the contractor did not provide them.
- Unchecking the Box...
 - Will then take that money back off.
- This is a tool and at the discretion of the District.

Live Example