

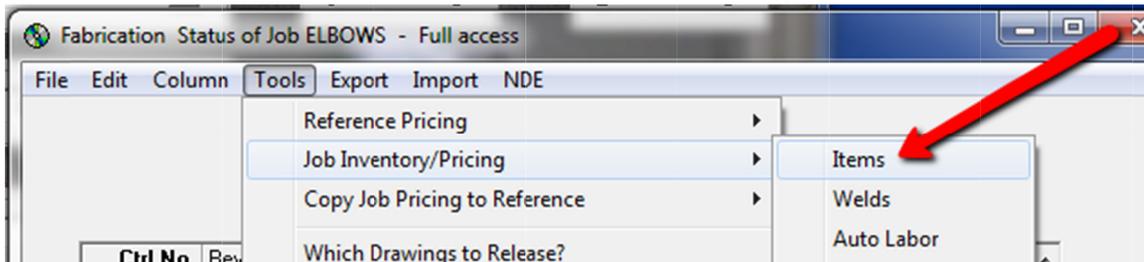
WDTR or Which Drawings To Release

WDTR is one of the ways that AcornPipe helps you manage your fab shop day-to-day. Suppose we have a simple job which contains 23 drawings. The drawings are numbered such that drawing 11 has 10 ft of pipe and one elbow, drawing 12 has 10 ft of pipe and two elbows, and so on, up to drawing 35, which has 30 ft of pipe and five elbows.

Select File/Material Summary. You will find that the job requires 360 ft of pipe and 60 elbows.

Description	Material	Quantity
6" Std(.280) Pipe	A106-B SMLS	360.00 ft
6" 90 LR Elbow Std	A234-WPB	60

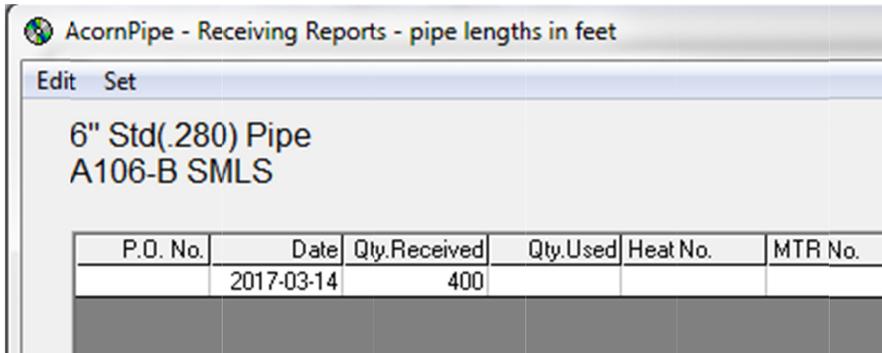
Just to make sure the Inventory view is up to date, select Tools/Inventory Update Only. Then move to the Inventory view. You do this by selecting Tools, Job Inventory/Pricing, Items.



The Inventory view shows that a total of 360 ft of pipe and 60 elbows have been drawn, but no materials have been received.

Description	Material	Estimated	Purchased	Held	Received	Drawn
6" Std(.280) Pipe	A106-B SMLS	.00 ft	.00 ft	.00 ft	.00 ft	360.00 ft
6" 90 LR Elbow Std	A234-WPB	0	0	0	0	60

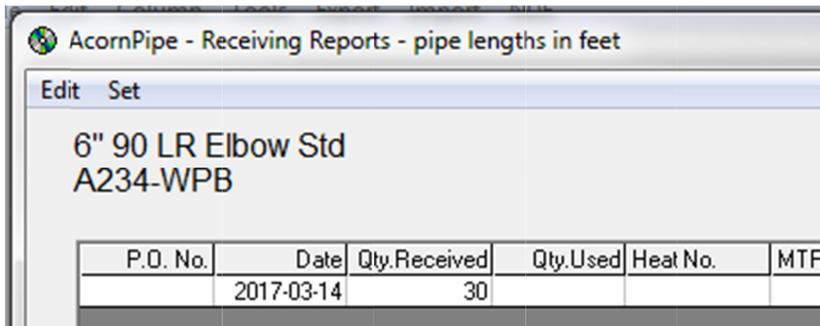
Double-click on the Received column in the first row. Or if you prefer to use the keyboard, put the focus on the top line of the Received column and press the spacebar. The receiving form appears:



The screenshot shows a software window titled "AcornPipe - Receiving Reports - pipe lengths in feet". Below the title bar are "Edit" and "Set" buttons. The main text area displays "6" Std(.280) Pipe" and "A106-B SMLS". Below this is a table with the following data:

P.O. No.	Date	Qty.Received	Qty.Used	Heat No.	MTR No.
	2017-03-14	400			

Enter a received quantity of 400 ft as shown. Click Done.



The screenshot shows a software window titled "AcornPipe - Receiving Reports - pipe lengths in feet". Below the title bar are "Edit" and "Set" buttons. The main text area displays "6" 90 LR Elbow Std" and "A234-WPB". Below this is a table with the following data:

P.O. No.	Date	Qty.Received	Qty.Used	Heat No.	MTR
	2017-03-14	30			

Similarly for the elbows, enter a received quantity of 30. Click Done.

Hit Done to get back to Fabrication Status.

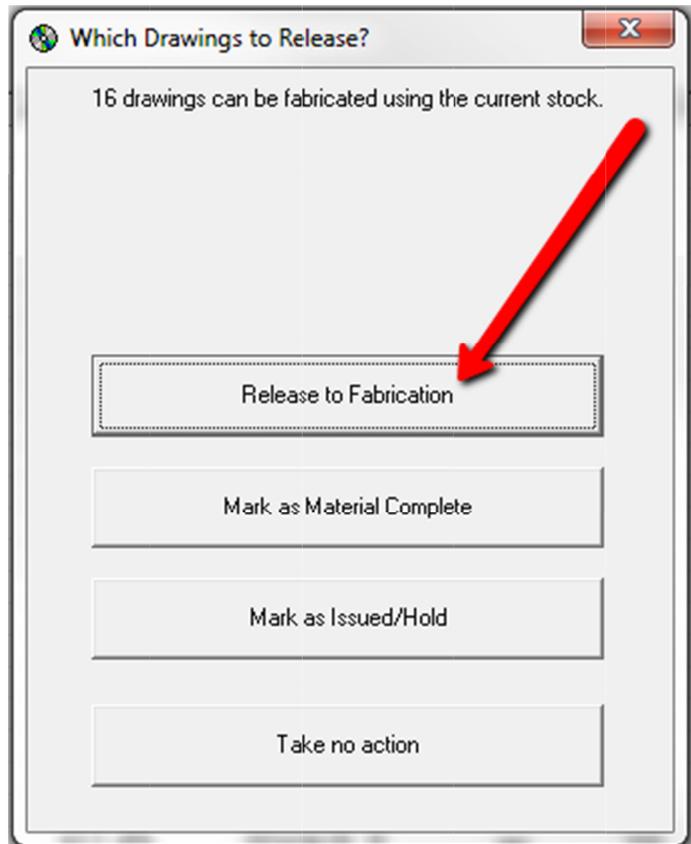
The job now has 400 ft of pipe, which is more than enough to complete the project. But there are only 30 elbows out of the 60 required. How many spools can we fabricate using the current stock?

Click on List All to make sure every spool is selected. Select Tools/Return from Fabrication so that you are starting with a blank slate. Then select Tools/Which Drawings to Release?

We are informed that 16 of the 23 drawings selected can be fabricated using the current stock.

AcornPipe has found that elbows are in short supply, so in order to maximize the number of spools that can be fabricated, it suggests fabricating those spools that contain the fewest number of elbows.

It unselects those spools that have the most elbows, in order to make better use of the available pipe.



Choose Release to Fabrication. This changes the status entry of the remaining selected spools to F – In Fab.

AcornPipe displays a summary of the logic used to make the selection. Do NOT use this summary as a basis for ordering additional materials, because often there is more than one reason why a particular spool could not be fabrication, and only one reason will be listed here.

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WhichDrawingsToRelease.txt - Notepad
File Edit Format View Help
Results from AcornPipe 'Which Drawings to Release' 2017-03-14 13:51

Note that the items cited below may not be the only reason why certain drawings could not be released to fab.
Do not use this list as a basis for ordering materials - run a shortage report instead.
Pipe quantities shown here are in inches and include cut allowance but not overall scrap factor.

Dwg No. Qty not released due to shortage of
000005 5 6" 90 LR Elbow Std A234-WPB
000015 5 6" 90 LR Elbow Std A234-WPB
000025 5 6" 90 LR Elbow Std A234-WPB
000035 5 6" 90 LR Elbow Std A234-WPB
000004 4 6" 90 LR Elbow Std A234-WPB
000014 4 6" 90 LR Elbow Std A234-WPB
000024 4 6" 90 LR Elbow Std A234-WPB

That leaves the following 16 drawings which can be released to fab:
000001
000002
000003
000010
000011
000012
000013
000020
000021
000022
000023
000030
000031
000032
000033
000034
    
```

Because there is plenty of pipe available, but not enough elbows, drawings with 5 elbows are eliminated first, then drawings with 4 elbows, until the number of elbows required reaches the number available.

If you Update the Inventory and go to the Inventory view, you will see you have 28 elbows In Fab, with two remaining in stock.

AcornPipe - Inventory for Job ELBOWS last updated 3/14/17 2:09:04 PM

Description	Material	Estimated	Purchased	Held	Received	Drawn	In Stock	In Fab	Complete R
6" Std(.280) Pipe	A106-B SMLS	.00 ft	.00 ft	.00 ft	400.00 ft	360.00 ft	130.00 ft	270.00 ft	.00 ft
6" 90 LR Elbow Std	A234-WPB	0	0	0	30	60	2	28	0

On the Fabrication Status table, the Status field accepts a single letter denoting the status of the spool.

Drawing Status		
(blank) N—no specific status H—on hold, not released to fab		Included in Drawn quantity
M—material complete, reserved for this spool I—Issued/Hold, issued for fab but on hold there F—In Fabrication O—Other P—Paint Q—in QC	Included in In Fab quantity	
C—Complete S—Shipped	Included in Complete quantity	
X—Canceled Y—Canceled Z—Canceled	Not included anywhere	

Items listed in Receiving Reports are included in the Received quantity, unless the word HOLD is entered in one of the fields Heat No., MTR No, or PMI No.

The In Stock quantity is calculated based on

$$\text{In Stock} = \text{Received} - \text{In Fab} - \text{Complete}$$

Some entries trigger changes to other columns of the status table:

F-in fab puts the current date in the InFab date column if empty.

C-complete puts the current date in the Complete date column if empty.