

CM 352 – Electrical Construction Estimating

Accubid Activity #8

Accubid Office Building– SYS 21 FIRE ALARM SYSTEM

Fire Alarm System Devices

Procedure

1. Start the program Accubid Pro 15
2. Press the CAPS LOCK Key ON
3. From the Job Schedule Screen open the file, Accubid Office Building.
4. If not already selected, select the Takeoff tab at the bottom of the screen.
5. Make sure that the **L100 v8 us neca imp** is the currently selected database. If not, switch to it by clicking on the Database menu and choosing the Select command.
6. Set the breakdown labels as shown in Figure 1.

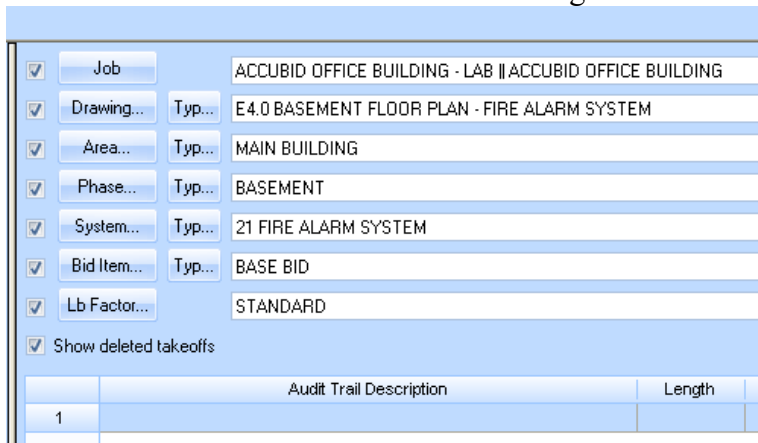


Figure 1

Choose from the Takeoff: COMMON ASSEMBLIES and double click on [Line 22] SYSTEMS – FIRE ALARM ****

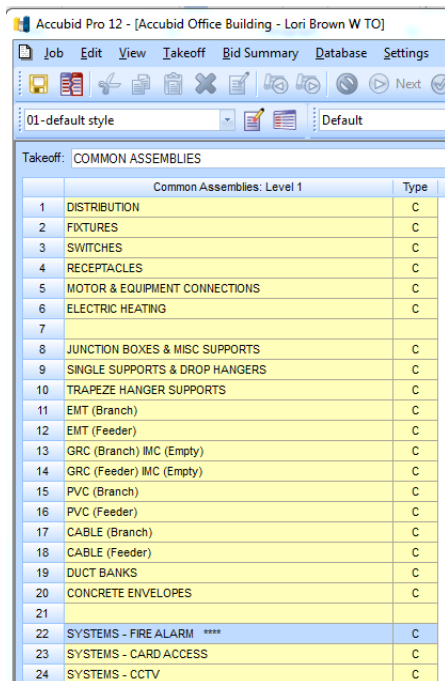


Figure 2

Note: All of the Fire Alarm devices for the Accubid Office Building can be found in the SYSTEMS – FIRE ALARM **** Common Assemblies: Level 2 (Figure 3).

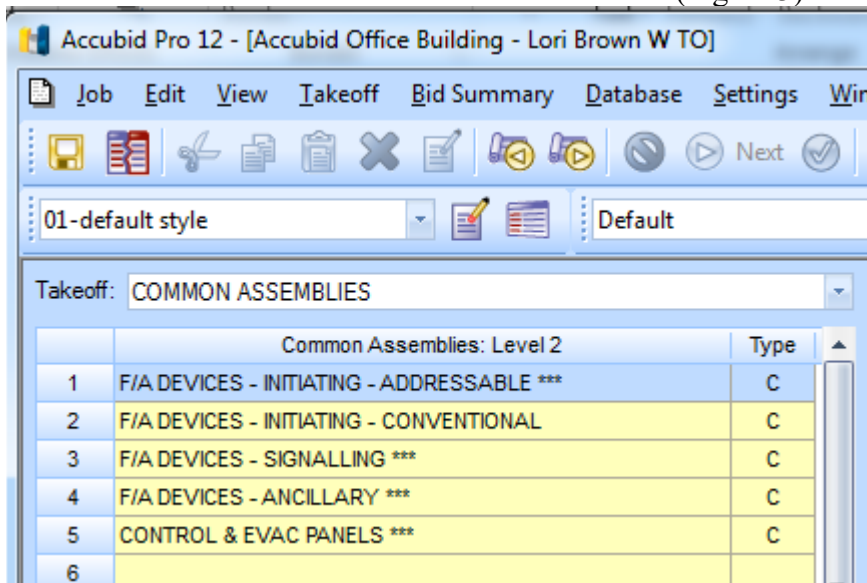


Figure 3

- Using these Common Assemblies and your FAS Take Off Sheet, add the Fire Alarm devices to your estimate. Be sure to change the breakdown labels when appropriate.
- For example, to take off the Smoke Detectors:
Double click on [Line 1] F/A DEVICES – INITIATING – ADDRESSABLE***

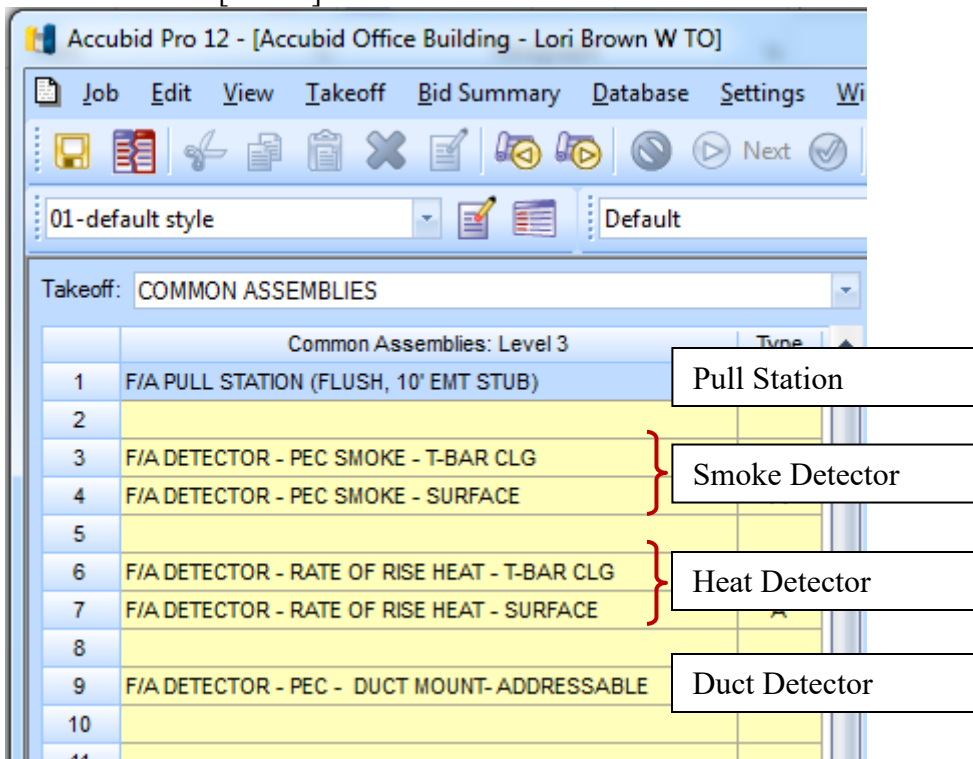


Figure 4

Fire Alarm System Branch

1. Change the Takeoff to, Takeoff: BRANCH CONDUIT AND WIRE
2. Set the Breakdown as shown in Figure 5

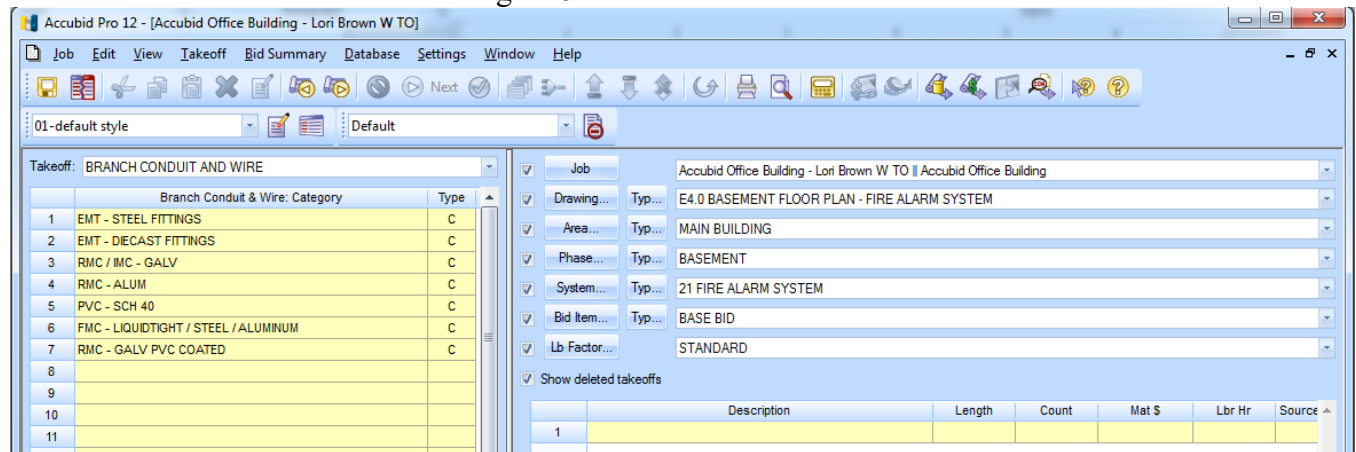


Figure 5

3. In the Takeoff: BRANCH CONDUIT AND WIRE double click on:
 - [Line 1] EMT – STEEL FITTINGS
 - [Line 2] 3/4" EMT - STEEL SET SCREW W/ BOX
 - [Line 8] 3/4" EMT STRUT MNT
4. In the Measure Takeoff window change the Conduit Length and Count to the value recorded on your FAS Take Off Sheet. Then click the OK button.

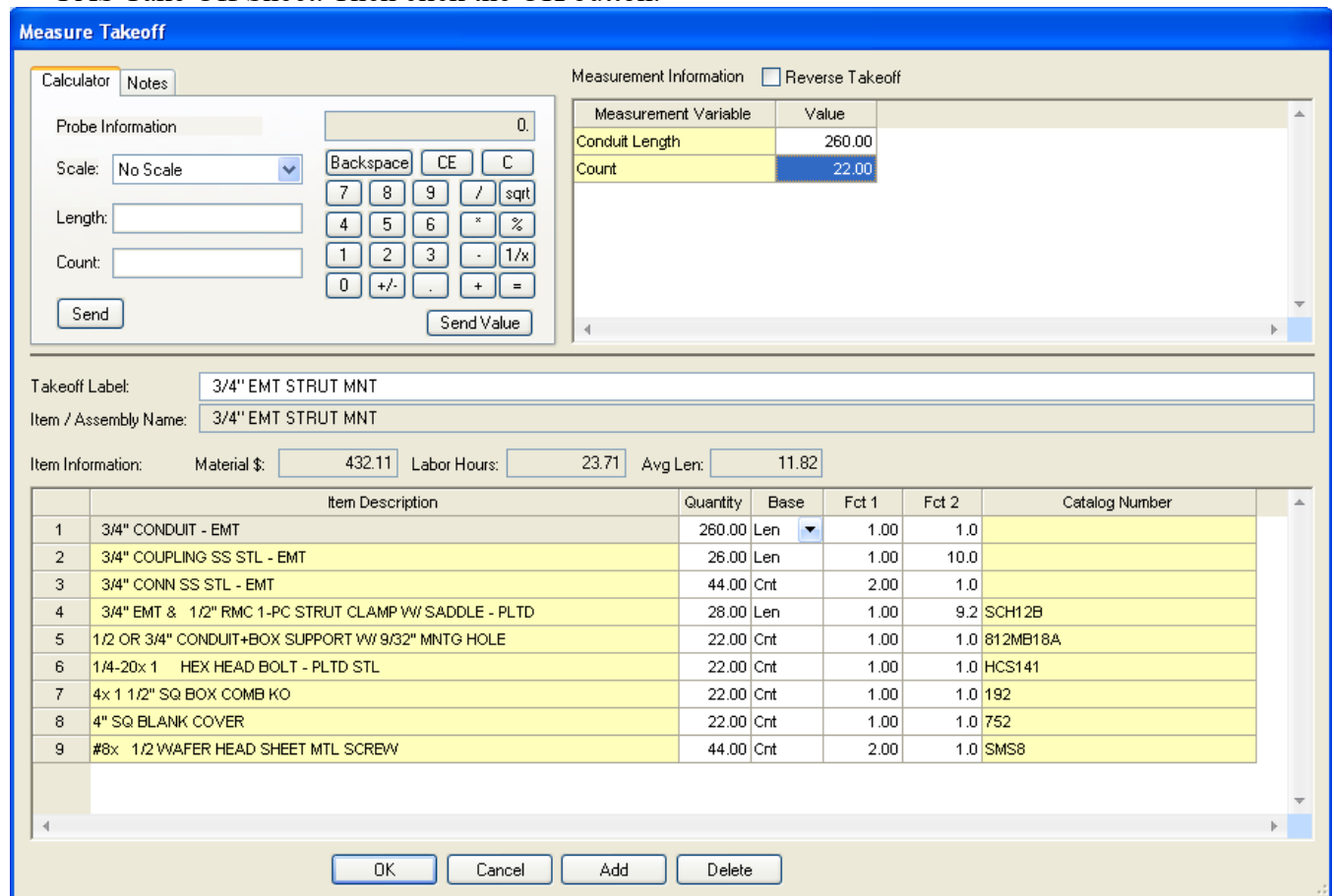


Figure 6

5. From the Takeoff: BRANCH CONDUIT FITTINGS: Type add (1) 3/4" Sleeve & Seal
[Line 7] 3/4" SLEEVE & SEAL
6. Click on Next Step.
7. From the Takeoff: BRANCH WIRE: Type add the #18-2 PR FA Cable
[Line 11] #18 #18 AWM-105 (FA CABLE)
[Line 2] #18- 2P F/A CABLE 105 DEG
8. Verify that the Conduit Length, # of Conductors and Wire Makeup % are what you want to add to your estimate and then click the OK button.
9. Right click in the audit trail area to finish the takeoff and rename the takeoff to:
3/4" EMT STRUT MNT #18-2PR FAC INPUT – BSMT
10. Repeat for the other branch conduits in the basement and name the takeoffs as follows:
3/4" EMT STRUT MNT 4/12 THHN FAC OUTPUT – BSMT
1/2" EMT STRUT MNT 2/14 FAC SHUTDOWN – BSMT

Your completed take off for the basement portion of the FAS should look similar to the take off shown in Figure 7.

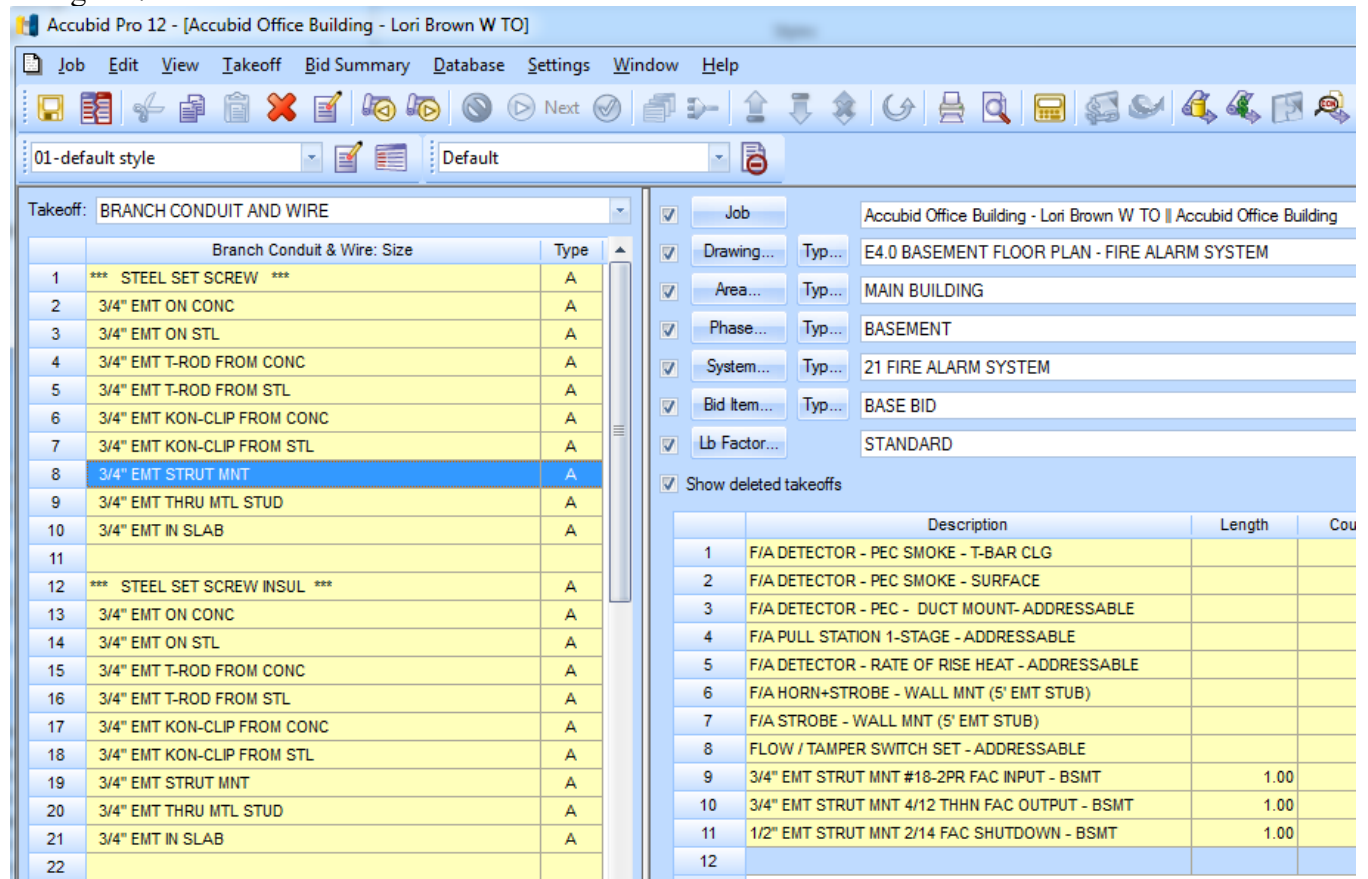


Figure 7

11. Add the remaining FAS Branch to the estimate. Be sure to set the BREAKDOWN before taking off any material. Use the following names for each takeoff:

First Floor

3/4" EMT STRUT MNT #18-2PR FAC INPUT – FIRST FLOOR

3/4" EMT STRUT MNT 4/12 THHN FAC OUTPUT - FIRST FLOOR

3/4" EMT STRUT MNT #18-2PR FAC - FACP TO FAAP - FIRST FLOOR

Second and Third Floors

3/4" EMT STRUT MNT #18-2PR FAC INPUT – SECOND & THIRD FLOORS

3/4" EMT STRUT MNT 4/12 THHN FAC OUTPUT - SECOND & THIRD FLOORS

Fourth Floor

3/4" EMT STRUT MNT #18-2PR FAC INPUT – FOURTH FLOOR

3/4" EMT STRUT MNT 4/12 THHN FAC OUTPUT – FOURTH FLOOR

12. Save your estimate. Close the file.