Accubid Activity #7 Accubid Office Building– SYS 21 FIRE ALARM SYSTEM

Fire Alarm System Devices

Procedure

- 1. Start the program Accubid Pro 13
- 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.

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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 ****

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Takeoff	COMMON ASSEMBLIES									
	Common Assemblies: Level 1	Туре								
1	DISTRIBUTION	С								
2	FIXTURES	С								
3	SWITCHES	С								
4	RECEPTACLES	С								
5	MOTOR & EQUIPMENT CONNECTIONS	С								
6	ELECTRIC HEATING	С								
7										
8	JUNCTION BOXES & MISC SUPPORTS									
9	SINGLE SUPPORTS & DROP HANGERS									
10	TRAPEZE HANGER SUPPORTS									
11	EMT (Branch)									
12	EMT (Feeder)									
13	GRC (Branch) IMC (Empty)	С								
14	GRC (Feeder) IMC (Empty)	С								
15	PVC (Branch)	С								
16	PVC (Feeder)	С								
17	CABLE (Branch)	С								
18	CABLE (Feeder)	С								
19	DUCT BANKS	С								
20	CONCRETE ENVELOPES	С								
21										
22	SYSTEMS - FIRE ALARM ****	С								
23	SYSTEMS - CARD ACCESS	С								
24	SYSTEMS - CCTV	С								

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).

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Takeoff: COMMON ASSEMBLIES											
I		Common Assemblies: Level 2 Type									
I	1	F/A DEVICES - INITIATING - ADDRESSABLE *** C									
I	2	F/A DEVICES - INITIATING - CONVENTIONAL	С								
	3	F/A DEVICES - SIGNALLING ***	С								
1	4	F/A DEVICES - ANCILLARY ***	С								
	5	CONTROL & EVAC PANELS *** C									
1	6										

Figure 3

- 7. 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

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Takeoff	Takeoff: BRANCH CONDUIT AND WIRE						Accubid Office Building - Lori Brown W TO Accubid Office Building				
	Branch Conduit & Wire: Category	Туре			Drawing.	Тур	E4.0 BASEMENT FLOOR PLAN - FIRE ALARM SYSTEM				
1	1 EMT - STEEL FITTINGS C					Тур	MAIN BUILDING				
2	2 EMT - DIECAST FITTINGS C					Тур	BASEMENT				
4	4 RMC-ALUM C					system Typ 21 FIRE ALARM SYSTEM					
5 PVC - SCH 40 C					Rid Item	Turn					
6 FMC - LIQUIDTIGHT / STEEL / ALUMINUM C					Did item.	. (yp	DASE BID				
7	7 RMC - GALV PVC COATED C				Lb Factor		STANDARD				
8					Show delete	ed takeoffs					
9											
10							Description Length Count Mat \$ Lbr Hr Source				
11					1						

Figure 5

- 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.

measur	e Takeoff								
Calcul	ator Notes		Measurement Ir	nformation	Reve	erse Takeoff			
Deal	Proto la formación D			nt Variable	Va	alue			
FIO	Probe Information U.			1		260.00			
Sca	le: No Scale	Backspace CE C	Count			22.00			
		7 8 9 / sqrt							
Len	gth:	456 × %							
Cou	nt	1 2 3 · 1/x							
S	end	SendValue							~
		Send Value]] 4						
l akeott	Label: 3/4" EM	ISTRUIMNI							
Item / A	ssembly Name: 3/4" EM	T STRUT MNT							
ltem Infi	ormation: Material \$:	432.11 Labor Hours:	23.71 Ava I	en:	11.82	1			
					-				
		Item Description		Quantity	Base	FCt 1	Fet 2	Catalog Number	
1	3/4" CONDULT - EMT	- Chit		260.00	Len 💌	1.00	1.0		_
2	3/4 COUPLING SS STE -	- EIVII		20.00	Cet	1.00	10.0		_
3	3/4 CONNISSISTE - EIVIT			44.00	uni Lon	2.00	1.0	SCH40B	_
4				20.00	Cet	1.00	9.2	910MB104	_
				22.00	Cot	1.00	1.0		-
7	4×110" SO BOX COMBI	KO		22.00	Cot	1.00	1.0	102	_
	4% FT 172 SQ BOX COMBT			22.00	Cot	1.00	1.0	750	_
a a		HEET MTL SCREW	44 00	Cnt	2.00	1.0	SMS8	_	
Ť				44.00	Ser IL	2.00	1.0		
									-
4									- F
				D-L:	_				
			Add	Delete					

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.
- 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.

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Taked	f: BRANCH CONDUIT AND WIRE		•		Jo	ob		Accubid Office Building - Lori Brown W TO	Accubid Office Bu	uilding		
	Branch Conduit & Wire: Size	Туре	-		Draw	ving	Тур	E4.0 BASEMENT FLOOR PLAN - FIRE AL	ARM SYSTEM			
1	*** STEEL SET SCREW ***	Α			Are	a	Typ	MAIN BUILDING				
2	3/4" EMT ON CONC	A			Dha		Turn	DACEMENT				
3	3/4" EMT ON STL	A			Fila	se	Typ	BASEMENT				
4	3/4" EMT T-ROD FROM CONC	A			Syst	em	Тур	21 FIRE ALARM SYSTEM				
5	5 3/4" EMT I-ROD FROM STL				Bid It	em	Тур	BASE BID				
7	3/4 EMT KON-CLIP FROM CONC 3/4" EMT KON-CLIP FROM STI				Lb Fa	ctor		STANDARD				
8	8 3/4" EMT STRUT MNT											
9	3/4" EMT THRU MTL STUD	Α										
10	3/4" EMT IN SLAB	Α						Description	Length	Cou		
11					1	F/A DET	ECTOR					
12	12 *** STEEL SET SCREW INSUL ***				2	F/A DET	ECTOR	- PEC SMOKE - SURFACE				
13	3/4" EMT ON CONC	Α			3	F/A DET	ECTOR	- PEC - DUCT MOUNT- ADDRESSABLE				
14	3/4" EMT ON STL	Α			4	F/A PUL	L STAT					
15	3/4" EMT T-ROD FROM CONC				5	F/A DET	ECTOR					
16	3/4" EMT T-ROD FROM STL	A			5	F/A HU	KN+STR	ROBE - WALL MNT (S'EMT STUB)				
17	3/4" EMT KON-CLIP FROM CONC	A	_		, ,	FIAST						
18	3/4" EMT KON-CLIP FROM STL	A			0	3//" EM	T STDU	T MNT #18 200 FAC INDUT _ RSMT	1.00			
19	3/4" EMT STRUT MNT	A			10	3/4" EM	T STRU	T MNT 4/12 THHN FAC OUTPUT - BSMT	1.00			
20	3/4" EMT THRU MIL STUD	A			11	1/2" EM	T STRU	T MNT 2/14 FAC SHUTDOWN - BSMT	1.00			
21	3/4 EMT IN SLAB	A			12	112 211		1.00				
22						-						



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 and copy it to your own flash drive before leaving the lab.