Accubid Activity #16 Accubid Office Building – 38 GROUNDING

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.

9

6. Set the Breakdown as shown in Figure 1:

Job		ACCUBID OFFICE BUILDING - LB ACCUBID OFFICE BUILDING			
🔽 Drawing	Тур	E5.1 ELECTRICAL ONE LINE DIAGRAM			
Area	Тур	MAIN BUILDING			
Phase	Тур	BASEMENT			
System	Тур	38 GROUNDING			
Bid Item	Тур	BASE BID			
Lb Factor		STANDARD			
Show deleted takeoffs					

Figure 1

7. In the takeoff area, choose Takeoff: FEEDER CABLE Double click on:[Line 8] GROUNDING

[Line 9] #2/0 BARE-CU

8. In the Create/Modify Takeoff Description window change the Takeoff Description as shown in Figure 2 and Click OK.

Create/Modify Takeoff Description	×
#2/0 BARE-CU MAIN SYSTEM GND	
OK Cancel	

9. In the Measure takeoff window change the Cable Length to 75.00 and click OK.

Measure Takeoff										
Calculator Notes			Measurement Ir	nformation	Reve	rse Takeoff				
Probe Information Scale: No Scale Length:	~	0. Backspace CE C 7 8 9 / sqrt 4 5 6 * %	Measuremen Cable Length Cable Makeup Parallel Runs		Va	iue 75.00 15.00 1				-
Count: Send		1 2 3 • 1/x 0 +/• . + = Send Value	4						Þ	Ŧ
Takeoff Label:	#2/0 BARE-CU I	MAIN SYSTEM GND								
Item / Assembly Name:	#2/0 BARE-C									
	Material \$:	229.87 Labor Hours:	1.89 Avgl	_en:	75.00					
		Item Description		Quantity	Base	Fct 1	Fct 2	Catalog Number		*
1 #2/0 BARE CO	PPER			90.00	Len 💌	1.00	1.0	BARE-SD-2/0-7STR-CU-500R		
										Ŧ
1.4									P	
	OK Cancel Add Delete									

Figure 3

 From the Takeoff: ITEM DATABASE continue adding the items and quantities as shown in Figure 4 (Traverse Codes are shown next to each item). Add the CONNECT OWNER'S 500 KVA from Takeoff: TEMPORARY ITEMS.

	Item Description	Quantity	
1	#2/0 BARE COPPER	90.00	ITEM DATABASE
2	#8 TO #10x 7/8 PLAS ANCHOR (3/16)	3.00	8, 2, 10, 2
3	#10x 1 P/H SELF-TAP SCREW	3.00	8, 5, 2, 22
4	1-H CABLE STRAP	3.00	4, 6, 2, 1
5	CONNECT OWNER'S 500 KVA	1.00	TEMPORARY ITEMS
6			

Figure 4

11. Right click in the Item Description list in the Audit Trail Description area and click Finish. The takeoff displays in the Audit Trail Description as shown in Figure 5.

7	Job		ACCUBID OFFICE BUILDING - LB ACCUBID OFFICE BUI	ILDING				
7	Drawing	ving Typ E5.1 ELECTRICAL ONE LINE DIAGRAM						
7	Area	ea Typ MAIN BUILDING						
V	Phase	ase Typ BASEMENT						
V	System							
V	Bid Item	Item Typ BASE BID						
7								
	Show deleted	takeoffs						
			Audit Trail Description	Length	Count			
	1 # 2/0 B/	ARE-CU M	IAIN SYSTEM GND	75.00				
	2							



12. In the takeoff area, choose Takeoff: FEEDER CABLEDouble click on:[Line 8] GROUNDING[Line 3] #6 BARE-CU

13. In the Create/Modify Takeoff Description window change the Takeoff Description as shown in Figure 6 and Click OK.

Create/Modify Takeoff Description
#6 BARE-CU COMM GND
OK Cancel

Figure 6

14. In the Measure Takeoff window change the Cable Length to 20.00 and Cable Makeup Length to 5.00 as shown in Figure 7 and click OK.

Me	Measure Takeoff												
	Calculator Notes Measurement Information Reverse Takeoff												
	Probe Information 0. Measurement Variable Value Cable Length 20.00											*	
	Scale	e: No Scale	~	Backspace CE C		- Cable Makeup	Length		5.00				
	Leng	ith:		7 8 9 / sqrt 4 5 6 × %		Parallel Runs			1				
	Cour	nt:		123.1/*									
	Se	nd		0 +/ + = Send Value									Ŧ
	_					4						•	
Ta	akeoff	Label:	#6 BARE-CU CO	DMM GND									
lte	m / As	ssembly Name:	#6 BARE-Cl	IJ									
lte	m Info	rmation:	Material \$:	14.85 Labor Hours:		0.26 Avg l	Len:	20.00					
				Item Description			Quantity	Base	Fct 1	Fct 2	Catalog Number		-
	1	# 6 BARE COP	PPER				25.00	Len 💌	1.00	1.0	BARE-SD-6-7STR-CU-315R		
													-
•	(►	
	OK Cancel Add Delete												

Figure 7

15. Add the items shown in Figure 8 to the Item Description list takeoff. When completed, right click on the Item Description area and click Finish.

1 # 6 BARE COPPER 25.00 2 #8 TO #10x 7/8 PLAS ANCHOR (3/16) 3.00 3 #10x 1 PH SELF-TAP SCREW 3.00 4 1-H CABLE STRAP 3.00 5 COMM GROUND BUS COMPLETE 1.00 6 ITEM DATABASE		Item Description	Quantity	
2 #8 TO #10x 7/8 PLAS ANCHOR (3/16) 3.00 8, 2, 10, 2 3 #10x 1 P/H SELF-TAP SCREW 3.00 8, 5, 2, 22 4 1-H CABLE STRAP 3.00 4, 6, 2, 1 5 COMM GROUND BUS COMPLETE 1.00 TEMPORARY ITEMS	1	# 6 BARE COPPER	25.00	ITEM DATABASE
3 #10x 1 P/H SELF-TAP SCREW 3.00 8, 5, 2, 22 4 4, 6, 2, 1 5 COMM GROUND BUS COMPLETE 1.00 TEMPORARY ITEMS	2	#8 TO #10x 7/8 PLAS ANCHOR (3/16)	3.00	
4 1-H CABLE STRAP 3.00 4, 6, 2, 1 5 COMM GROUND BUS COMPLETE 1.00 TEMPORARY ITEMS	3	#10x 1 P/H SELF-TAP SCREW	3.00	
	4	1-H CABLE STRAP	3.00	
6	5	COMM GROUND BUS COMPLETE	1.00	TEMPORARY ITEMS
	6			

Figure 8

16. Set the Breakdown as shown in Figure 9.

V	Job		ACCUBID OFFICE BUILDING - LB ACCUBID OFFICE BUILDING	-
V	Drawing	Тур	E5.1 ELECTRICAL ONE LINE DIAGRAM	•
V	Area	Тур	MAIN BUILDING	-
V	Phase	Тур	RISER	•
V	System	Тур	38 GROUNDING	•
V	Bid Item	Тур	BASE BID	•
V	Lb Factor		STANDARD	Ŧ
V 9	Show deleted t	akeoffs		



17. Choose Takeoff: FEEDER CABLEDouble click on:[Line 8] GROUNDING[Line 9] #2/0 BARE-CU

18. In the Create/Modify Takeoff Description change the description as shown in Figure 10 and click OK.

Create/Modify Takeoff Description	×
#2/0 BARE-CU RISER GND	
OK Cancel	

19. In the Measur	re Takeon window	make the changes sh	own in Figure 11	and click OK
10 In the Measur	ro Tokooff window	make the changes sh	own in Figure 11	and aliak OK

measure rakeon									
Calculator Notes			Measurement Ir	nformation	Reve	erse Takeofi			
Probe Information		0.	Measureme	nt Variable	Va	alue			-
1 TODE INTOINIAGON			Cable Length			65.00			
Scale: No Scale	~	Backspace CE C	Count			1.00			
		7 8 9 / sqrt	Cable Makeup	Length		10.00			
Length:		4 5 6 × %	Parallel Runs			1			
Count:		1 2 3 · 1/x							
		0 +/· . + =							
Send		Send Value							~
		Send Value]] 4						•
Takeoff Label:	#2/0 BARE-CU	RISER GND							
Item / Assembly Name:	#2/0 BARE-0	U							
Item Information:		191.56 Labor Hours:	1.98 Avg I		65.00	1			
Item Information:	Material \$:	191.56 Labor Hours:	1.98 Avg I	Len:	60.00				
		Item Description		Quantity	Base	Fct 1	Fct 2	Catalog Number	*
1 #2/0 BARE CO	PPER			75.00	Len	1.00	1.0	BARE-SD-2/0-7STR-CU-500R	
2 1/2" SLEEVE	& SEAL			4.00	Cnt 💌	4.00	1.0		
									-
4									-
,					_				
		OK Cancel	Add	Delete					.:

Figure 11

20. From the Takeoff: FEEDER CABLE FITTINGS Double click: [Line 15] 1-H CABLE STRAP/ FASTEN (L - 3')

21.	In t	he l	Measure	Takeoff	window	change th	ne Length	to 65	and	click	OK.
				1 4110011		entange u	le Lengen	00 00			· · · ·

Measure Takeoff	
Calculator Notes Measure	ment Information 🔲 Reverse Takeoff
Probe Information 0.	urement Variable Value 65.00
Scale: No Scale Backspace CE C #runs a	
7 8 9 / sqrt Length: 4 5 6 × %	
Count: 1 2 3 · 1/x 0 +/· . + =	
	*
Send Value	4
Takeoff Label: #2/0 BARE-CU RISER GND	
Item / Assembly Name: #2/0 BARE-CU	
Item Information: Material \$: 6.44 Labor Hours: 2.99	Avg Len: 65.00
tern Description	Quantity Base Fct 1 Fct 2 Catalog Number
1 1-H STRAP #14/2 & #12/2	22.00 Len 💌 1.00 3.0 890-MC
2 #8 TO #10x 7/8 PLAS ANCHOR (3/16)	22.00 Len 1.00 3.0 7569
3 #10x 1 P/H SELF-TAP SCREW	22.00 Len 1.00 3.0
	*
4	•
, 	
OK Cancel Add	Delete

Figure 12

22. Add the TEMPORARY ITEM, SUB ER GROUND BUS COMPLETE (Count = 4) to the takeoff. Right click in the Item Description and click Finish.

	Item Description	Quantity
1	#2/0 BARE COPPER	75.00
2	1/2" SLEEVE & SEAL	4.00
3	1-H STRAP #14/2 & #12/2	22.00
4	#8 TO #10x 7/8 PLAS ANCHOR (3/16)	22.00
5	#10x 1 P/H SELF-TAP SCREW	22.00
6	SUB ER GROUND BUS COMPLETE	4.00
7		
- ·	12	

Figure 13

23. Choose Takeoff: FEEDER CABLE Double click on: [Line 8] GROUNDNG [Line 3] #6 BARE-CU

24. Change the Takeoff Description to: #6 BARE-CU COMM RISER GND and click OK.

Create/Modify Takeoff Description	×							
#6 BARE-CU COMM RISER GND								
OK Cancel								

Figure 14

25. In the Measure Takeoff window make the changes shown in Figure 15 and click OK.

Measure Takeott					
Calculator Notes	Measurement Information	Reverse Takeof	ïf		
Probe Information 0.	Measurement Variable	Value			*
	Cable Length	65.00			
Scale: No Scale 🛛 🖌 Backspace CE C	Count	1.00			
7 8 9 / sqrt	Cable Makeup Length	10.00			
Length: 4 5 6 * %	Parallel Runs	1			
Count: 1 2 3 • 1/x 0 +/• . + =					
Send Send Value					~
]]4				•
Takeoff Label: #6 BARE-CU COMM RISER GND					
Item / Assembly Name: #6 BARE-CU					
Item Information: Material \$: 44.56 Labor Hours:	1.17 Avg Len:	65.00			
Item Description	Quantity	Base Fct 1	Fct 2	Catalog Number	*
1 # 6 BARE COPPER	75.00 Le	en 1.00) 1.0	BARE-SD-6-7STR-CU-315R	
2 1/2" SLEEVE & SEAL	4.00 Cr	nt 💌 4.00	1.0		
					~
4					- F
OK Cancel	Add Delete	Г			

Figure 15

26. From the Takeoff: FEEDER CABLE FITTINGS Double click: [Line 15] 1-H CABLE STRAP/ FASTEN (L - 3')

27. In the Measure Takeoff window change the Length to 65 and click OK.

28. Add the TEMPORARY ITEM, COMM GROUND BUS COMPLETE (Count = 4) to the takeoff. Right click in the Item Description and click Finish.

	Item Description	Quantity
1	# 6 BARE COPPER	75.00
2	1/2" SLEEVE & SEAL	4.00
3	1-H STRAP #14/2 & #12/2	22.00
4	#8 TO #10x 7/8 PLAS ANCHOR (3/16)	22.00
5	#10x 1 P/H SELF-TAP SCREW	22.00
6	COMM GROUND BUS COMPLETE	4.00
7		

Figure 16

29. Change the Breakdown as shown in Figure 17.

Job		ACCUBID OFFICE BUILDING - LB ACCUBID OFFICE BUILDING
Drawing	Тур	E5.1 ELECTRICAL ONE LINE DIAGRAM
Area	Тур	MAIN BUILDING
Phase	Тур	Typical - FLOORS 1-4
System	Тур	38 GROUNDING
Bid Item	Тур	BASE BID
Lb Factor		STANDARD
Show deleted I	akeoffs	

30. Using Takeoff: FEEDER CABLE Double Click on: [Line 8] GROUNDING [Line 3] #6 BARE-CU

31. Edit the Takeoff Description as shown in Figure 18 and click OK.

Create/Modify Takeoff Description	K
#6 BARE-CU TRAY GND	
OK Cancel	

Figure 18

32. Make the changes shown in Figure 19 and click OK.

Measure Takeoff								
Calculator Notes	Measurement Ir	nformation	Reve	rse Takeof	f			
Probe Information 0.	Measureme	nt Variable		alue				\$
Scale: No Scale Scale CE C	Cable Length Cable Makeup	Length		220.00 10.00				
7 8 9 / sqrt	Parallel Runs			1				
Count:								
Send Send Value	4						Þ	Ŧ
Takeoff Label: #6 BARE-CU TRAY GND								_
Item / Assembly Name: #6 BARE-CU								
Item Information: Material \$: 136.66 Labor Hours:	2.35 Avg I	Len:	220.00					
Item Description		Quantity	Base	Fct 1	Fct 2	Catalog Number		-
1 # 6 BARE COPPER		230.00	Len 💌	1.00	1.0	BARE-SD-6-7STR-CU-315R		
								Ŧ
4							•	
OK Cancel	Add	Delete						

Figure 19

33. Using the ITEM DATABASE add the items and quantities as shown in Figure 20, and right click then click on Finish to complete the takeoff.

	Item Description	Quantity	
1	# 6 BARE COPPER	230.00	ITEM DATABASE
2	1-H CABLE STRAP	3.00	8, 2, 10, 2
3	#8 TO #10x 7/8 PLAS ANCHOR (3/16)	3.00	8, 5, 2, 22
4	#10x 1 P/H SELF-TAP SCREW	3.00	4, 6, 2, 1
5	# 4 TO #2/0 CABLE TRAY CLAMP	25.00	7, 4, 10
6			

34. Using Takeoff: FEEDER CABLE Double Click on: [Line 8] GROUNDING [Line 3] #6 BARE-CU

35. Edit the Takeoff Description as shown in Figure 21 and click OK.

Create/Modify Takeoff Description								
#6 BARE-CU - TFRM GND								
OK Cancel								

Figure 21

36. Make the changes shown in Figure 22 and click OK.

Calculator Notes	Measurement Information	Reverse Takeof	f			
Probe Information 0.	Measurement Variable	Value				*
	Cable Length	6.00				
Scale: No Scale 🛛 🖌 Backspace CE C	Cable Makeup Length	5.00				
7 8 9 / sqrt	Parallel Runs	1				
Length: 4 5 6 × %						
Count 1 2 3 • 1/x 0 +/• . + =						
Send Send Value						Ŧ
]]4				Þ	
Takeoff Label: #6 BARE-CU - TFRM GND						
Item / Assembly Name: #6 BARE-CU						
Item Information: Material \$: 6.54 Labor Hours:	0.11 Avg Len:	6.00				
Item Description	Quantity	Base Fct 1	Fct 2	Catalog Number		
1 # 6 BARE COPPER	11.00 Le	en 💌 1.00	1.0	BARE-SD-6-7STR-CU-315R		
						~
] 4					Þ	
OK Cancel	Add Delete					

Figure 22

37. From the Takeoff: FEEDER CABLE FITTINGS

Double click:

[Line 15] 1-H CABLE STRAP/ FASTEN (L - 3')

- 38. In the Measure Takeoff window change the Length to 6 and click OK.
- 39. Add the ITEM 3/8" CONN AC-90 / MC DC SS [4, 2, 1, 1] Quantity = 1 to the takeoff.
- 40. Right Click in the Item Description and click Finish.
- 41. Using a Green Highlighter color the MDB #2/0 GND and the TRMR #6 GND (TL1, TL2, TL3, & TL4) shown on E5.1 Electrical One-Line Diagram.
- 42. Save your estimate.