

Comput-Ability® Estimating Systems Mechanical Insulation's Key Estimator™ - Version 20-1

MIKE™ What's New in MIKE 20.

There are many new enhancements and features in **MIKE 20**. But the system still has the same look and feel as **MIKE 10** so the transition time to become familiar **MIKE 20** will be minimum.

MIKE-20-1-ESTIMATING

File Edit Options Help Remote Support Select Databases Estimates Tables Library Estimate Utilities Library Utilities VTO6 Utilities Backup Export Folder Navigation Convert MIKE 10 Data

Estimates	Systems	Specifications	Linkage	Manual Takeoff	VTO6 Takeoff	Recalculate	Recap	Reports					
Number	Estimate Name	Location	Bid Date	Bid Time	Price	Estimator	Set	Arch Eng	Type	Project	Open	Lock	Won
200.00	Office Building	Charlotte	01/01/2020	00:00:00	\$47,686.61	KJT	MAS	CAI	COM		<input type="checkbox"/>	<input type="checkbox"/>	More...
400.00	Process Plant	Kansas City	01/01/2020	16:00:00	\$116,118.52	Mike	MAS	CAI	IND		<input type="checkbox"/>	<input type="checkbox"/>	
500.00	Power Plant Flat Work	TVA	03/28/2016	00:00:00	\$161,898.61	MRM	MAS	CAI	POW		<input type="checkbox"/>	<input type="checkbox"/>	
600.00	Multi-Layer Wrap	Houston	03/18/2016	10:20:23	\$36,002.72	Mike	MAS	CAI	IND		<input type="checkbox"/>	<input type="checkbox"/>	

Modify Estimate Jump to Estimate Locate on Name Locate on Location Sort on Number Sort on Name Sort on Location Clean Estimate Estimate Manual

Create New Estimate Create from Old List Report Project Maintenance Export Estimate Delete Estimate ALL Estimators Start Year 1901

Number 1: Estimates tab

A larger **Estimate Number**. The **Estimate Number** was changed from a 6-digit numeric to an 8.2-digit numeric field.

Estimates	Systems	Specifications	Linkage	Manual Takeoff	VTO6 Takeoff	Recalculate	Recap	Reports				
Number	Estimate Name	Location	Bid Date	Bid Time	Price	Estimator	Set	Arch Eng	Type	Project	Open Lock	Won
200.00	Office Building	Charlotte	01/01/2020	00:00:00	\$47,686.61	KJT	MAS	CAI	COM		<input type="checkbox"/>	<input type="checkbox"/>
400.00	Process Plant	Kansas City	01/01/2020	16:00:00	\$116,118.52	Mike	MAS	CAI	IND		<input type="checkbox"/>	<input type="checkbox"/>
500.00	Power Plant Flat Work	TVA	03/28/2016	00:00:00	\$161,898.61	MRM	MAS	CAI	POW		<input type="checkbox"/>	<input type="checkbox"/>
600.00	Multi-Layer Wrap	Houston	03/18/2016	10:20:23	\$36,002.72	Mike	MAS	CAI	IND		<input type="checkbox"/>	<input type="checkbox"/>

What is nice about this change is that allows you to group estimates together by using the 2 decimal digits to the right of the decimal point.

Estimates	Systems	Specifications	Linkage	Manual Takeoff	VTO6 Takeoff	Recalculate	Recap	Reports				
Number	Estimate Name	Location	Bid Date	Bid Time	Price	Estimator	Set	Arch Eng	Type	Project	Open Lock	Won
200.00	Office Building	Charlotte	01/01/2020	00:00:00	\$47,686.61	KJT	MAS	CAI	COM		<input type="checkbox"/>	<input type="checkbox"/>
200.10	Office Building Change Orders	Charlotte	01/01/2020	00:00:00	\$47,686.61	KJT	MAS	CAI	COM		<input type="checkbox"/>	<input type="checkbox"/>
400.00	Process Plant	Kansas City	01/01/2020	16:00:00	\$116,118.52	Mike	MAS	CAI	IND		<input type="checkbox"/>	<input type="checkbox"/>
500.00	Power Plant Flat Work	TVA	03/28/2016	00:00:00	\$161,898.61	MRM	MAS	CAI	POW		<input type="checkbox"/>	<input type="checkbox"/>
600.00	Multi-Layer Wrap	Houston	03/18/2016	10:20:23	\$36,002.72	Mike	MAS	CAI	IND		<input type="checkbox"/>	<input type="checkbox"/>

Number 2:

New and enlarged **Estimate Master Fields**.

Modify Estimate Setup

Estimate Number: <input type="text" value="200.10"/>	Lock Estimate from Calculation: <input type="checkbox"/>	Estimate Long Name - Press Ctrl+F to Change Font Use this Estimate to do all Change Order Estimates
Estimate Short Name: <input type="text" value="Office Building Change Orders"/>	Last Pipe Line Number: <input type="text" value="0"/> Last Duct Line Number: <input type="text" value="0"/> Last Equip Line Number: <input type="text" value="0"/>	Estimate Long Location - Press Ctrl+F to Change Font Same Location
Estimate Location: <input type="text" value="Charlotte"/>	Reset Last: <input type="button" value="Reset Last"/>	
Estimator: <input type="text" value="KJT"/> Code: <input type="text" value="00001"/>	Reduce Pipe Equivalent Lineal by: <input type="text" value="None"/>	
Estimate Type: <input type="text" value="COM"/>	Default Takeoff Software: <input type="text" value="VTO6"/>	
Prod Set: <input type="text" value="MAS"/> MASTER SET	Update Detail Lines: <input type="button" value="Update Detail Lines"/>	
Arch/Engineer: <input type="text" value="CAI"/> Comput-Ability Inc	Unit Price Estimate: <input type="checkbox"/>	
Bid Date: <input type="text" value="01/01/2020"/> Bid Time: <input type="text" value="00:00:00"/>	Labor Only: <input type="checkbox"/>	
Received: <input type="text" value="12/25/2019"/> Estimate Created: <input type="text" value="01/01/1901"/>	Material Only: <input type="checkbox"/>	
Date: <input type="text" value="01/01/2000"/> Time: <input type="text" value="00:00:00"/>	Update Existing Specs: <input type="button" value="Update Existing Specs"/>	
Project Code: <input type="text"/>	BOM Round Up Cost: <input checked="" type="checkbox"/> To Recap Other Material	
Secured/Won: <input type="checkbox"/>	Sizes: <input checked="" type="radio"/> Imperial <input type="radio"/> Metric	
	Quantities: <input checked="" type="radio"/> Imperial <input type="radio"/> Metric	
	Notes: <input type="button" value="Notes"/>	

Estimate Short Name and **Location** increased to 50 characters.

New **Estimate Long Name** and **Estimate Long Location** fields added. With the ability to change font.

Number 2: Estimates *tab* (continued)

Three **Additional Date Fields** with user defined **Titles**.

A **Secured/Won Field** that shows up on the **Estimate List Tab**.

Estimates	Systems	Specifications	Linkage	Manual Takeoff	VT06 Takeoff	Recalculate	Recap	Reports					
Number	Estimate Name	Location	Bid Date	Bid Time	Price	Estimator	Set	Arch Eng	Type	Project	Open Lock	Won	More...
200.00	Office Building	Charlotte	01/01/2020	00:00:00	\$47,686.61	KJT	MAS	CAI	COM		<input type="checkbox"/>	<input checked="" type="checkbox"/>	
200.10	Office Building Change Orders	Charlotte	01/01/2020	00:00:00	\$47,686.61	KJT	MAS	CAI	COM		<input type="checkbox"/>	<input type="checkbox"/>	
400.00	Process Plant	Kansas City	01/01/2020	16:00:00	\$116,118.52	Mike	MAS	CAI	IND		<input type="checkbox"/>	<input type="checkbox"/>	

This **Secured/Won Field** is also a selection field in the **Print Estimate Master List** program.

A **Unit Price Estimate** *checkbox*. This new feature will be explained in more detail later in this document.

Number 3: Systems tab

The biggest change in the **Pipe and Duct Systems** tab is the addition of a new *check box* with the column header of **○**. This *check box* tells the system that there is a separate Specification for the oversize fitting different than for the pipe and all other fittings. By checking this box two Sys/Spec Linkage records are created. This will be explained in more detail in **Linkage** tab section further on in this document.

The other change is for the **VTO6** color selector and a *button* to update the color in the **Systems Library** table.

Code	System Description - Pipe	Labor Modifier	Bid Element	Takeoff Color	○
CHW	Chilled Water	0.00	HVA		<input checked="" type="checkbox"/>
DOM	Domestic Water	0.00	PLM		<input type="checkbox"/>
HTL	High Temp Line	0.00	MEC		<input type="checkbox"/>
HWH	Hot Water Heating	0.00	HVA		<input type="checkbox"/>
REF	Refrigerant	0.00	MEC		<input checked="" type="checkbox"/>
STM	Steam	0.00	MEC		<input checked="" type="checkbox"/>

Note:

Visual TakeOff® version 6 (**VTO6**) is the upgrade from **Visual TakeOff®** version 5 (**VTO5**). **VTO6** Will be explained in more detail in another document and will have new how to videos to show how to use it. All **VTO5** data and drawing will be converted to **VTO6** when you convert an estimate from **MIKE 10** to **MIKE 20**.

Number 4: Specifications tab

A lot has changed in the **Pipe tab** under the **Specification tab**.

The screenshot displays the MIKE-20-1-ESTIMATING software interface. The 'Specifications' tab is active, showing a table with the following data:

Code	Description
AG-CG-ALM	Aerogel CryoGel with Alm
AG-PG-ALM	Aerogel Pryrogel with ALM

The 'Materials' section lists the following items:

Insulation	Vendor	Material	Type	Waste
Jacket - 1	AGL	ACGZ	M	0.75
Jacket - 2	AAO	ALM1		
Covering - 1	NON	NON		
Covering - 2	ITW	IFAL	E	
Covering - 3	NON	NON		
Covering - 4	NON	NON		

The 'Finish' section includes the 'Oversize End Caps' option, which is highlighted with a red arrow. The 'Code 3' field is also highlighted with a red arrow.

The foremost change is that the **Specification (Spec) Code** has been increased from a 3-character alpha field to a 10-character alpha field. And the **Spec Description** has been increased to 50 characters.

The **Material Code** now is attached to a **Vendor Code**. This isn't a change to the system that is an enhancement for the estimator, it was done for **Comput-Ability®**. The **MIKE™** System has at least 75 unique **Vendors** with close to 1,300 unique **Material Codes** with over 300,000 individual prices in its **Price** database. Making a unique 4-character **Material Code** was becoming very difficult. Attaching the codes together allows us to reuse a **Material Code**.

Number 4: Specifications *tab* (continued)

A third **Count Item** has been added to the Spec.

Count Items Back Out LF

Code 1 * **SDL** Code 2 **DB6** Code 3 **D12**

Calculate Calculate Calculate

9.00 LF/EA 10.00 LF/EA 7.00 LF/EA

SADDLES W/SHIELDS-BUC-SAD -E

Note: The different LF/EA

Shown below is the Estimate attached Count Item table please note that the Count Item 2 is calculated at every 10 LF of Pipe up to 6” Pipe Size and Count Item 3 is calculated at every LF of Pipe from 6.5” and above Pipe Sizes.

Select Estimate Count Item

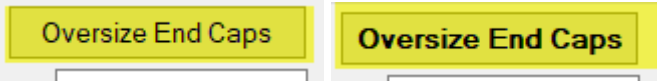
Count Item	Vendor Code	Material Code	Type	Description	Hours Per Item	Cost Per Item	Qty	Start Pipe Size	End Pipe Size
D12	NON	NON		LF of 12" 6#DB at Hangers	0.25	0.50	1.00	6.50	9999.99
DB6	NON	NON		LF of 6" 6#DB at Hangers	0.20	0.25	1.00		6.00
HGN	ALT	AW8S	I	1/2 SECTION CAL SIL 1.5'AT HGS	0.17		0.75		9999.99
HGP	IFI	IFH4	I	1/2 SECTION PolyIso 1.5'AT HGS	0.17		0.75		9999.99
ICS	NON	NON		INSTRUMENT CONNECTIONS	0.33	4.00			9999.99
SDL	BUC	SAD	E	SADDLES W/SHIELDS	0.25		1.00		9999.99
STF	NON	FGN		DUCT STIFFENER 1/2 sec FG PC	0.33	15.00	10.00		9999.99
VSP	NON	NON		VERTICAL SUPPORTS	0.50	5.00			9999.99

BUCKAROO INC Galv-CarbonSteel Saddle12" How to Guide

Select Add from Library Modify Records Cancel

Number 4: Specifications tab (continued)

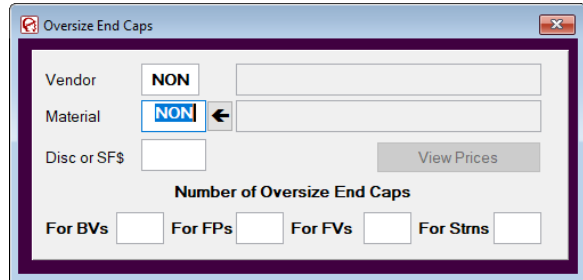
A new **Enlarge End Caps** button.



If there are not any Enlarge End Caps the button font will be a regular font. If there are **Enlarge End Caps** then the button will be a bold font.

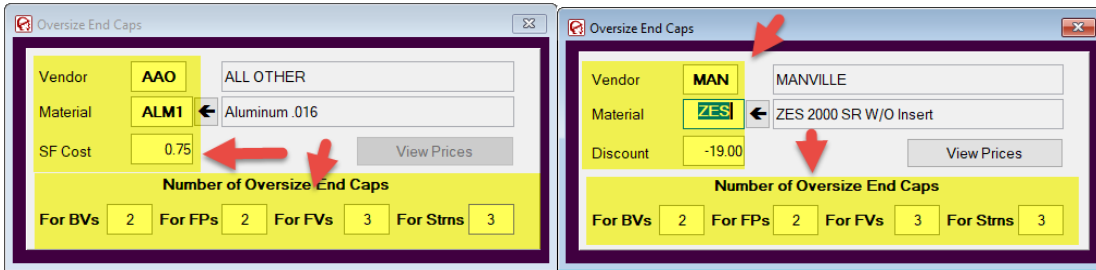
Clicking on the button brings up the following **Enlarge End Caps** screen:

If the Enlarge End Caps are not set up then this screen's field will be blank.



You will need to Select a valid Material Code and enter the quantity of **Enlarge End Caps** each of the **Enlarge End Fittings. BVs, FPs, FVs, and Strms.**

The Material Type for Enlarge End Caps be a Jacket 'J' Material Type or Each 'E' Material Type.



The quantity of **Enlarge End Caps** will auto calculated based on the quantity of the **Enlarge End Fittings.**

Note:

ONLY Material will be added to the Estimate **NO Labor**. The **Labor** comes from the **Enlarge Size Fitting** they are attached to.

Number 4: Specifications *tab* (continued)

Not much has changed in the **Duct** *tab* under the **Specification** *tab*.

The screenshot shows the 'Specifications' tab for 'Duct'. The table on the left lists specifications:

Code	Specification	Description - Duct
DBA	DUCT BOARD / ALM	
DUW	Duct Wrap	
FMW	Firemaster Wrap	

The form on the right contains the following fields:

- Vendor: OCF
- Type: B
- Discount: %
- Labor Modifier: %
- Material Waste: 10.00 %
- Material Width: 48 in
- Longitudinal Lap: in
- Circumferential Lap: in
- Default Thickness: 2.00 in
- Insulation Prices: (button)
- Vendor: AAO
- Net Cost: \$ 0.75 /UM
- Check for Finish Only:
- Finish: ALM1
- Labor Only:
- Count Items:
- Code 1: NON
- Code 2: NON
- Accessories: (highlighted with a red arrow)

We have added three new **Duct Accessory** calculation types.

The 'Estimate Spec Accessories' dialog box contains the following table:

Code	Description	Order Price	Order UOM	Coverage Conversion	Takeoff UOM	Size/Thick in BOM	Prod	Apply to
BSS	SS Bands	0.15 /	LN	@	12.0000 in	SO Stretch Out OC	Yes	0.00 Duct
CRB	Cornerbead	0.30 /	FT	@	4.0000	per FT	No	0.00 Duct
SCD	SILICONE CAULKING DUCT	3.00 /	TB	@	75.0000	per TB	No	0.00 Duct
TP6	3" TAPE SOFT FOIL 150 #488	6.40 /	RL	@	145.0000	per RL	No	0.00 Duct

Three red arrows point to the 'Takeoff UOM' column for the last three rows, which are SO Stretch Out OC, CJ Circum Joint, and LJ Long Joint.

CJ -Circumferential Joint

LJ – Longitudinal Joint

These two types are like **JL–Joint Length** but separates the LF into Circumferential LF and the Longitudinal LF

SO Stretch Out On Center – This works just like the **Pipe SO** works but uses the OD of outside of the Duct plus the Insulation thickness.

Number 5: Linkage tab

The biggest change in the **Linkage tab** is the addition of a new **Oversize Spec Linkage** column with the column header of **O**. If a **System** in the **Systems tab** has the **Separate Oversize Fitting Specification** check box checked an additional record will be auto created here with an **O** in the **Oversize Spec Linkage** column. This tells the system to use a separate **Spec** for any oversize fittings.

The examples below show the **REF System** that has Flex Tubing on the pipe a regular fitting and Flex Sheet on the oversize fittings.

The **CHW System** and the **STM System** have sectional pipe insulation and have Pipe & Tank Wrap on the oversize fittings.

The other changed in the **Pipe and Duct Systems tab** under the **Linkage tab** is the SPEC Code now is 10-character alpha.





Pipe	Oversize Spec Linkage	Type	Type Description	Set Color	Spec Code	Thickness	Starting Size	Ending Size	Trace Add	I/M Size	I/M Thick	Pipe Modifier	Labor Only	Temp Table
CHW	O	A	ALL	←	FSP	Yes	0.00	9999.99	0.00	I	I	0.00	<input type="checkbox"/>	<input type="checkbox"/>
CHW	O	A	ALL	←	FPTWRAP	Yes	0.00	9999.99	0.00	I	I	0.00	<input type="checkbox"/>	<input type="checkbox"/>
DOM		A	ALL	←	FLX	Yes	0.00	9999.99	0.00	I	I	0.00	<input type="checkbox"/>	<input type="checkbox"/>
HTL		A	ALL	←	MWAS	None	0.00	9999.99	0.00	I	I	0.00	<input type="checkbox"/>	<input type="checkbox"/>
HWH		A	ALL	←	FSP	Yes	0.00	9999.99	0.00	I	I	0.00	<input type="checkbox"/>	<input type="checkbox"/>
REF		A	ALL	←	FLX	Yes	0.00	9999.99	0.00	I	I	0.00	<input type="checkbox"/>	<input type="checkbox"/>
REF	O	A	ALL	←	FLS	Yes	0.00	9999.99	0.00	I	I	0.00	<input type="checkbox"/>	<input type="checkbox"/>
STM		A	ALL	←	MWAS	Yes	0.00	9999.99	0.00	I	I	0.00	<input type="checkbox"/>	<input type="checkbox"/>
STM	O	A	ALL	←	MWASPTWRAP	Yes	0.00	9999.99	0.00	I	I	0.00	<input type="checkbox"/>	<input type="checkbox"/>

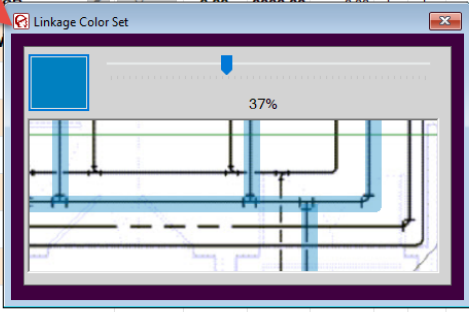
Refrigerant: Flex Tubing:

Exclude From Calculation: Disable Metric Warning:

Estimate: 200.00 Name: Office Building Location: Charlotte Estimator: KJT Set: MAS A/E CAI

Number 5: Linkage *tab* (continued)

	Set Color	Spec Code	Thickness	Pipe Size		I/M = 'I'perial or 'M'etric			
				Starting Size	Ending Size	Trace Add	I/M Size	I/M Thick	Pipe Modifie
		FSP	Yes	0.00	9999.99	0.00	I	I	0.0
		FLX	Yes	0.00	9999.99	0.00	I	I	0.0
									
		MV							



VTO6 color selector *button* is similar to the one in the **Systems** *tab*.

Another new feature that isn't in MIKE 20 yet but will be soon is the ability to change a **System/Spec Linkage** by **Insulation OD** range instead of **Pipe Size** range.

Number 6: Manual Takeoff *tab*

The **Manual Takeoff** screens now open with a **Start Takeoff** *button* if there is no detail takeoff records. *Click* the **Start Takeoff** *button* to do manual takeoff.

The screenshot shows the 'Manual Takeoff' tab in the software. A red arrow points to the 'Start Takeoff' button in the top-left corner of the main window. The main data table is currently empty, with columns for #, Alt, Line, floor, area, System Code, Type, Pipe Size, Temp, S, D, Pipe, 90s, 45s, Tees, UCs, and WVs. The right-hand side of the interface contains several control panels: 'Oversize Fittings' (BV, FP, FV, Str, Bends), 'Misc Fittings' (ECaps, Rdcr), 'Count Items', 'Labor Modifier', 'Override PSI' (set to 600), 'Detail Code' (10/27/06), and 'Term ID' (0 A). There are also buttons for 'Titles', 'Takeoff Setup', 'Drops/Risers', 'Line Copy', 'Quick Copy', and 'Assembly Copy'. At the bottom, there are fields for Estimate (200.10), Name (Office Building Change Orders), Location (Charlotte), and Estimator (KJT).

If there are detail takeoff records it acts like it always has in **MIKE 10** except no VTO6 detail records will display in this screen. You can now **Override the PSI** of FPs and FVs on the **Detail Takeoff** line.

This screenshot shows the 'Manual Takeoff' tab with detail records. The main data table contains the following records:

#	Alt	Drawing	Zone	System Code	Type	Pipe Size	Thick	S	D	Pipe	90s	45s	Tees	UCs	WVs
1		2306-1A	345436	LPS	I	10.00				67.00	11				
4		4567-1	45679-F	HPS	A	4.00				172.00	18		4		
5		4557-2	A	HPS	A	7.00	2.50			100.00					
6		4557-2	A	HPS	A	6.00	2.50			0.00	0.00	0.00	0.00	0.00	0.00

The right-hand side control panel is similar to the first screenshot, but the 'Override PSI' dropdown is highlighted with a red arrow and set to 600. The 'Detail Code' is 10/27/06. The bottom status bar shows Estimate (400.00), Name (Process Plant), Location (Kansas City), and Estimator (Mike).

Number 6: Manual Takeoff *tab* (continued)

There are Three (3) new **Accessory** calculation code in **Build Equipment Specs**.

JL-Joint Length

JJ-Jacket Joint

BA-Butt Area

The screenshot displays the MIKE 2017 ESTIMATING software interface. The main window is on the 'Manual Takeoff' tab, with the 'Build Equipment' sub-tab selected. The 'Equipment' table lists items like 'AG-PG-ALM PyroGel / ALM' and 'PTWRAPALMR P&T Wrap/ALM Rolls'. The 'Specifications' section shows material details for 'Knauf Pipe&Tank FSK' insulation, including vendor 'KNF', material 'KBF', and various dimensions. A yellow 'Accessories' button is highlighted with a red arrow. An 'Estimate Spec Accessories' dialog box is open in the foreground, showing a table of accessory codes and their specifications. The 'Accessories' table includes:

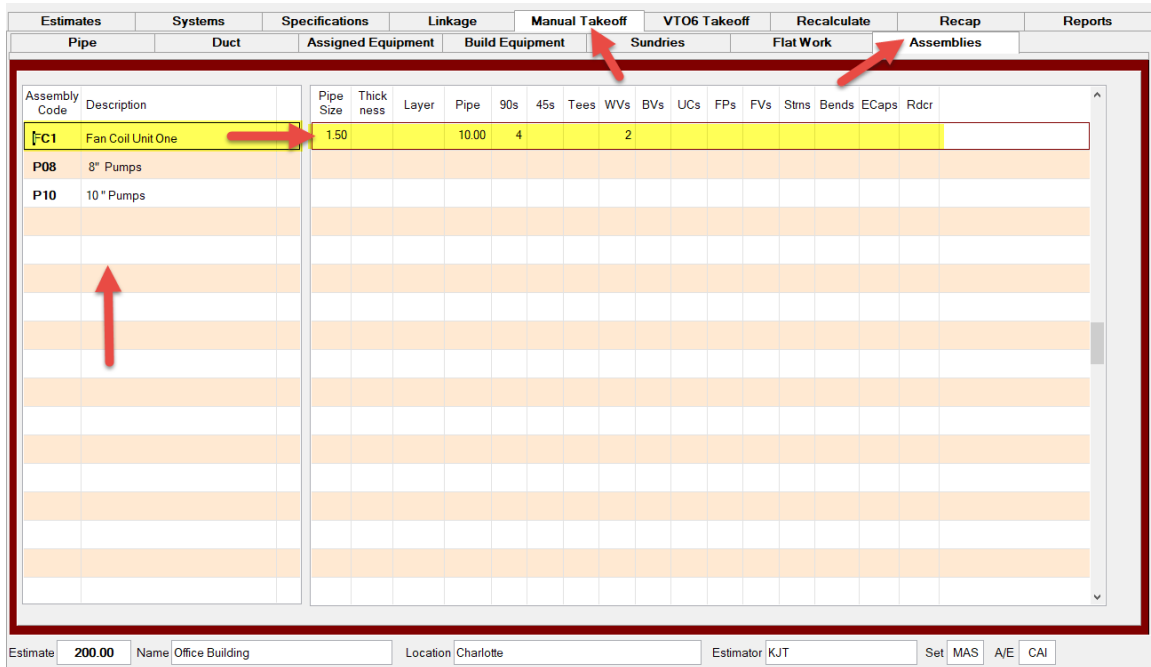
Code	Description	Order Price	Order UOM	Coverage Conversion	Takeoff UOM	Size/Thick in BOM	Prod	Apply to
BNE	3/4" ALM BANDS	0.10	/ LN	@ 1.5000	SQ Insulation	per LN	No	0.00 Equipment
SSS	SS Screws	0.05	/ EA	@ 1.0000	JJ Jacket Joint	per EA	No	0.00 Equipment
					SQ Insulation			
					OC On Center			
					JL Joint Length			
					JJ Jacket Joint			
					BA Butt Area			

Red arrows point to the 'JJ Jacket Joint', 'JL Joint Length', and 'BA Butt Area' rows in the 'Estimate Spec Accessories' dialog box.

Number 6: Manual Takeoff *tab* (continued)

There is now a new **Assemblies** *tab* in the **Manual Takeoff** *tab*.

In **MIKE 10** these **Assemblies (Connection Codes)** were stored in a **Library Table**. In **MIKE 20** they are copied from the **Library Table** into the **Estimate**. They work just like they in **MIKE 10** and **VT05**, but now they can be modified and made **Estimate Specific**.



Assembly Code	Description	Pipe Size	Thickness	Layer	Pipe	90s	45s	Tees	WVs	BVs	UCs	FPs	FVs	Stns	Bends	ECaps	Rdcr
FC1	Fan Coil Unit One	1.50	10.00			4			2								
P08	8" Pumps																
P10	10" Pumps																

Estimate: 200.00 Name: Office Building Location: Charlotte Estimator: KJT Set: MAS A/E CAI

Number 7: VTO6 Takeoff *tab*

They VTO6 Detail Takeoff now displays in the VTO6 Takeoff *tab*.

Estimates Systems Specifications Linkage Manual Takeoff **VTO6 Takeoff** Recalculate Recap Reports

Pipe Duct Assigned Equipment Build Equipment

#	Alt	Drawing	Floor	System Code	Type	Pipe Size	Thick	S	D	Pipe	90s	45s	Tees	UCs	WVs
50001		Level 4 HVA	2nd	CHW	A	2.00				216.24	0.00	0.00	0.00	0.00	0.00
50002		Level 4 Hydr		CHW	A	1.00				15.90					
50003		Level 4 Hydr		CHW	A	1.25				136.38					
50004		Level 4 Hydr		CHW	A	2.00				151.56	2				
50005		Level 4 Hydr		CHW	A	2.50				282.08					
50006		Level 4 Hydr		HWH	A	2.00				207.15	2				
50007		Level 4 HVA		CHW	A	1.50				20.00	8				4
50008		Level 4 HVA		CHW	A	4.00				15.00	6				

CHW Chilled Water Sort on System-Size

FSP Thickness Feet 952 16 5

Estimate 200.00 Name Office Building Location Charlotte Estimator KJT Set MAS A/E CAI

Overize Fittings: BVs 0.00 1, FPs 0.00 2, FVs 0.00 3, Strs 0.00 4, Bends 0.00

Misc Fittings: ECaps 0.00, Rdcr 0.00, 0.00, 0.00, 0.00

Count Items: SDL 9.00 0.00 96, DB6 10.00 0.00, D12 0.00

Labor Modifier 0.00, Override PSI, Detail Code 03/27/20 15:20:37, Term ID 1 A

VTO6 VTO6 Notes Refresh

Estimates Systems Specifications Linkage Manual Takeoff **VTO6 Takeoff** Recalculate Recap Reports

Pipe Duct Assigned Equipment Build Equipment

#	Alt	Drawing	Floor	System Code	Type	Shape	Width	Height	Thick	Length	NON	NON	Labor Mdr	Det Cd	Area
50001	I	Level 4 HVAC		SUP	A	REC	8.00	8.00		23.36					
50002		Level 4 HVAC		SUP	A	REC	10.00	12.00		13.98					
50003		Level 4 HVAC		SUP	A	REC	12.00	10.00		27.47					
50004		Level 4 HVAC		SUP	A	REC	12.00	12.00		33.28					
50005		Level 4 HVAC		SUP	A	REC	12.00	14.00		53.71					
50006		Level 4 HVAC		SUP	A	REC	14.00	12.00		29.60					
50007		Level 4 HVAC		SUP	A	REC	16.00	12.00		38.72					
50008		Level 4 HVAC		SUP	A	REC	16.00	14.00		34.67					
50009		Level 4 HVAC		SUP	A	REC	18.00	16.00		51.25					
50010		Level 4 HVAC		SUP	A	REC	20.00	16.00		33.01					
50011		Level 4 Hydronic	2nd	SUP	A	RND	20.00			165.43					

Supply Air DUW Thickness 1.50 Feet 1542.48 Manual 8989.43

Estimate 200.00 Name Office Building Location Charlotte Estimator KJT Set MAS A/E CAI

03/27/2020 15:20:37 Term ID 1 A

VTO6 VTO6 Notes Refresh

Number 8: Recalculate tab

The **Recalculate** screen is similar to the screen in **MIKE10** with some of the *buttons* moved around to make space. The new item is that there is now a **third sort level** called **Sub Sub Area** in the **Recalculate** screen.

As you can see below in the **Recap** screen has many more *buttons* to report on this **Sub Sub Area** sort level. All **Reports** under the **Reports** tab all have this **Sub Sub Area**.

Number 9: Recap tab

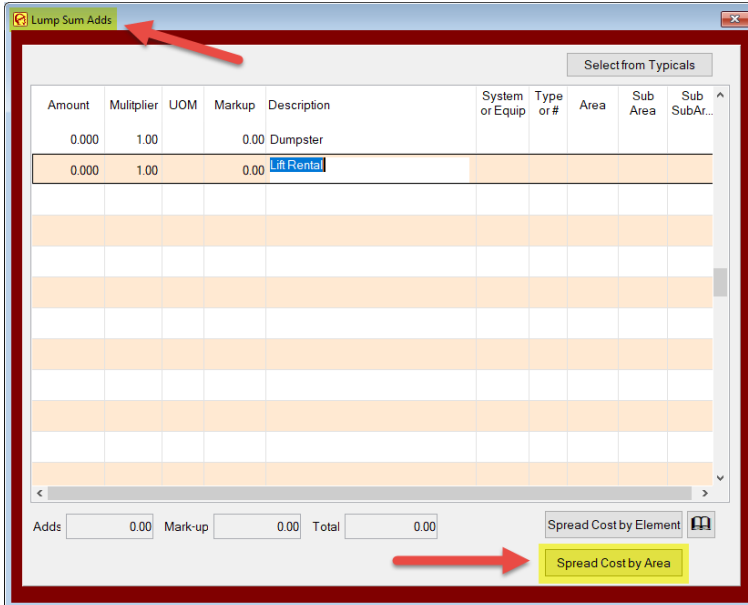
Besides all the new **Sub Sub Area Recaps** the biggest changes in the **Recap tab** are in the **Total Estimate Recap**.

There is now a new **Other Adds/Subcontracts** section. This section works like **Lump Sum Adds** but is after the **Overhead and Profit** sections and just before the **Grand Total**. There is also a new *button* to spread this cost by **Area**.

Material	Hours	Code	Insulation	Finish	Labor Cost	Total	
Pipe	13,910.21	230.22	XX	25.00	25.00	5,755.50	19,665.71
Duct	0.00	0.00	XX	25.00	25.00	0.00	0.00
Equip	3,656.89	36.28	XX	25.00	25.00	907.00	4,563.89
Other	415.60	0.00	Other - Default Rate ->	25.00	0.00	0.00	415.60
Total	17,982.70	266.50			6,662.50		24,645.20

Amount	Multiplier	UOM	Markup	Description	System or Equip	Type or #	Area	Sub Area	Sub Sub Area
4000.000	1.00		10.00	Scaffolding Sub					

Lump Sum Adds also has this new *button* to spread this cost by **Area**.



In the near future we will be adding to the **Other Hours** screen the ability to **Round Up Hours** by **Area**.

Number 10: Reports *tab*

All the Reports that have the **Area** and **Sub Area** totaling options now have the new **Sub Sub Area** option.

MIKE 20-1-ESTIMATING

File Edit Options Help Remote Support Select Databases Estimates Tables Library Estimate Utilities Library Utilities VTO6 Utilities Backup Export Folder Navigation Convert MIKE 10 Data

Estimates Systems Specifications Linkage Manual Takeoff VTO6 Takeoff Recalculate Recap Reports

System Summary Spec Summary Accessory Sundry Bill of Materials Quantity Check Summary Detail Other Unit Price Submittal

Bid Element to be Reported Select a Bid Element or leave blank

Report Pipe Systems Duct Systems Equipment All Systems

System(s) to be Reported ALL

Sub Total on Area Yes No

Sub Total on Sub Area Yes No

Sub Total on Sub Sub Area: Yes No

Expanded Equip Report Yes No (Equip Only)

Sub Total on Thickness Yes No (Pipe/Duct Only)

Sub Total on Size Yes No (Pipe/Duct Only)

Print Total/Unit Labor Hrs or Average Productivity Hrs Total Prod Avg Unit Hrs

Prod Avg based on: Tables 8.00 Estimate 8.00

Include Shop Labor Yes No (Pipe Only)

From - To Ranges

Pipe 0.000 9999.999 0.00 9999.99

Duct 0.000 9999.999 0.00 9999.99

Landscape Portrait

Printer Screen File PDF

OK

Estimate 200.00 Name Office Building Location Charlotte Estimator KJT Set MAS A/E CAI

The biggest change though is in how **Unit Prices** are calculated. In **MIKE 10** the **Unit Prices Size/Thickness ranges** and **Calculation** were done in the **Unit Price *tab*** under the **Reports *tab***.

MIKE 20-1-ESTIMATING

File Edit Options Help Remote Support Select Databases Estimates Tables Library Estimate Utilities Library Utilities VTO6 Utilities Backup Export Folder Navigation Convert MIKE 10 Data

Estimates Systems Specifications Linkage Manual Takeoff VTO6 Takeoff Recalculate Recap Reports

System Summary Spec Summary Accessory Sundry Bill of Materials Quantity Check Summary Detail Other Unit Price Submittal

Copy Cost and Hours Calculations From Estimate Detail Files to Copy Pipe Details Copy Duct Details

Included Cost Selections Fitting Selections Estimate Recap Parameters

Unit Price Reports Unit Prices and Factors Unit Price Matrix

Detail Worksheet Reports Add - Deduct Labor - Material

Composite Unit Prices Composite Quantities Composite Report

Export Unit Prices to CSV File Pipe Duct Export Unit Prices

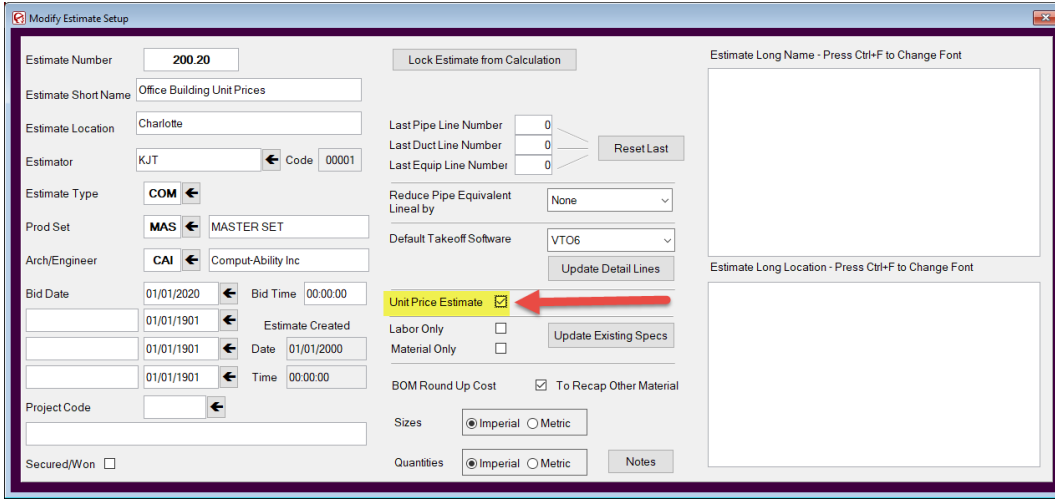
Unit Price Manual

Estimate 200.20 Name Office Building Unit Prices Location Charlotte Estimator KJT Set MAS A/E CAI

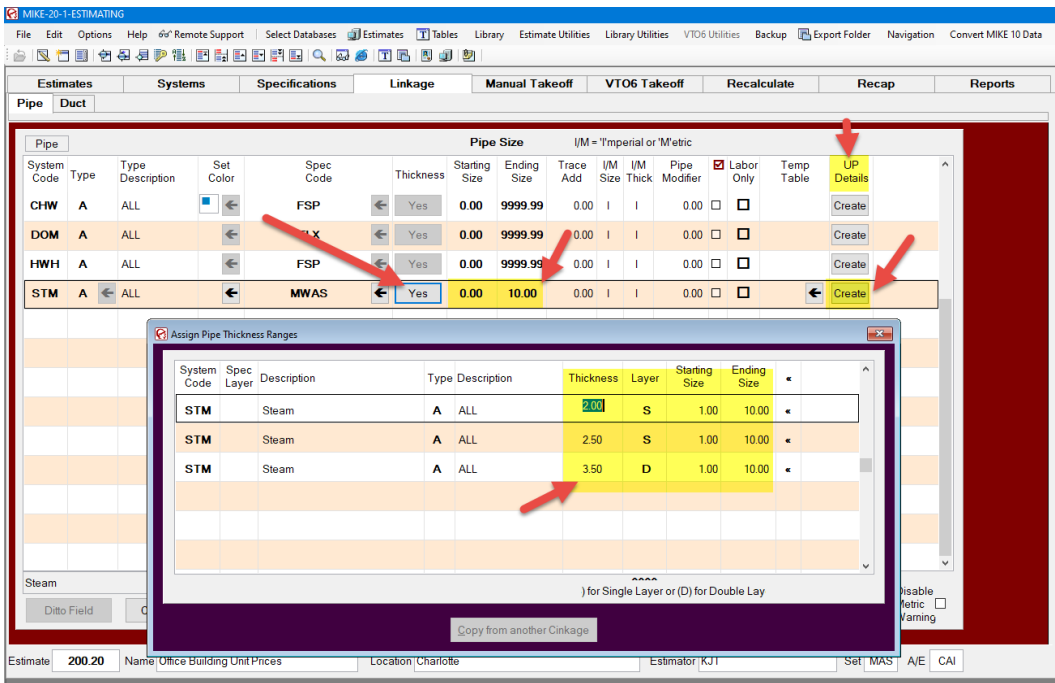
Number 10: Reports *tab* (continued) Unit Prices

Now when you **Create New Estimate** or create one from **Create from Old** there is a new **Unit Price Estimate** *check box*.

NOTE: Do Not use an **Estimate** that you need to save. It is best to **Create from Old** and create an **Estimate** with all the **Systems, Spec, Linkages** and **Bid Recap** information, but **NO Detail Takeoff** records. The **Detail Takeoff** records will be created in the **Linkage** *tab*.



In the **Linkage** *tab* you will set the **Pipe Size/Thickness** ranges and then create **Detail Takeoff** records by *clicking* on the **Create** *button* in the **UP Details** *column*.

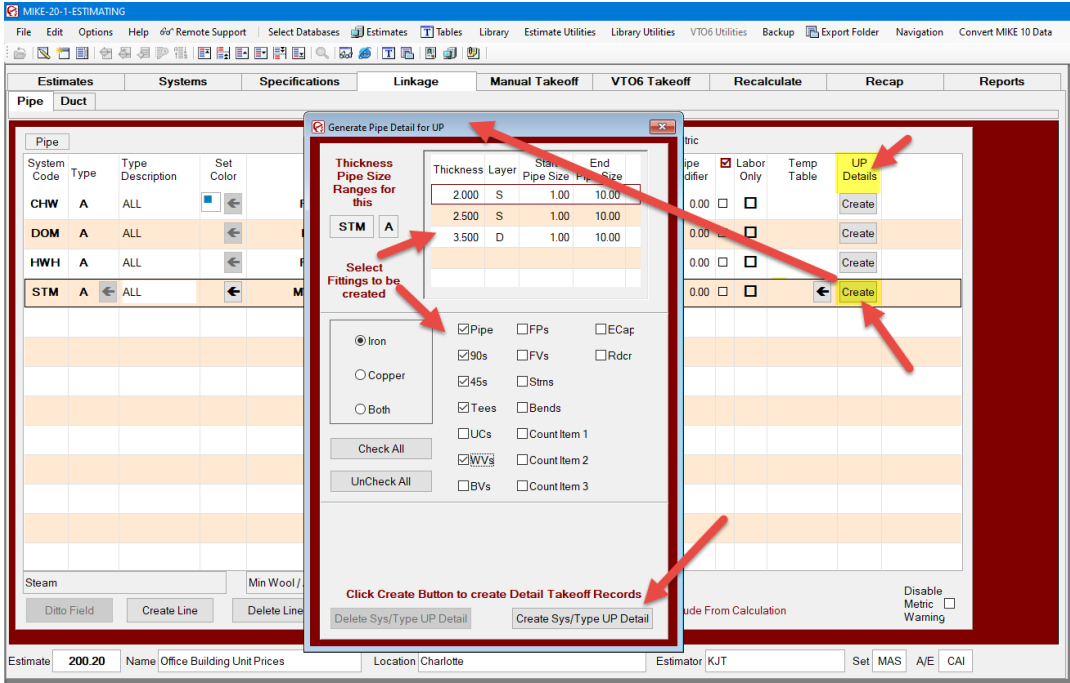


System Code	Type	Type Description	Set Color	Spec Code	Thickness	Starting Size	Ending Size	Trace Add	IM Size	IM Thick	Pipe Modifier	Labor Only	Temp Table	UP Details
CHW	A	ALL		FSP	Yes	0.00	9999.99	0.00	I	I		<input type="checkbox"/>	<input type="checkbox"/>	Create
DOM	A	ALL		FSP	Yes	0.00	9999.99	0.00	I	I		<input type="checkbox"/>	<input type="checkbox"/>	Create
HWH	A	ALL		FSP	Yes	0.00	9999.99	0.00	I	I		<input type="checkbox"/>	<input type="checkbox"/>	Create
STM	A	ALL		MWAS	Yes	0.00	10.00	0.00	I	I		<input type="checkbox"/>	<input type="checkbox"/>	Create

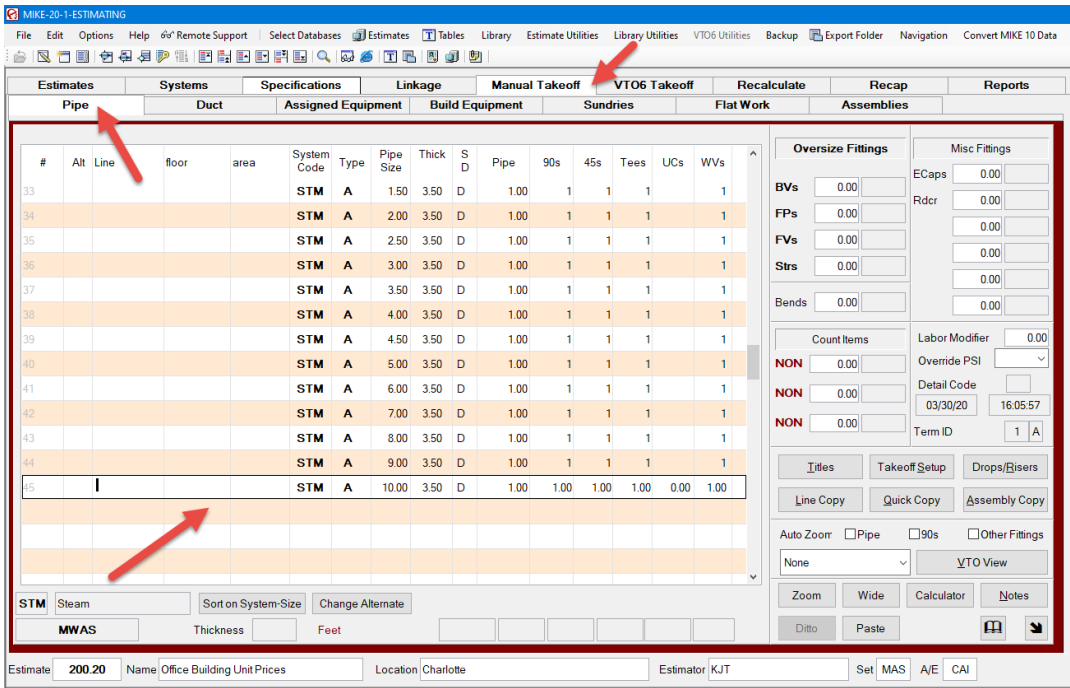
System Code	Spec Layer	Description	Type Description	Thickness	Layer	Starting Size	Ending Size
STM	Steam	A	ALL	2.00	S	1.00	10.00
STM	Steam	A	ALL	2.50	S	1.00	10.00
STM	Steam	A	ALL	3.50	D	1.00	10.00

Number 10: Reports tab (continued) Unit Prices

Click on the **Create** button in the **UP Details** column.

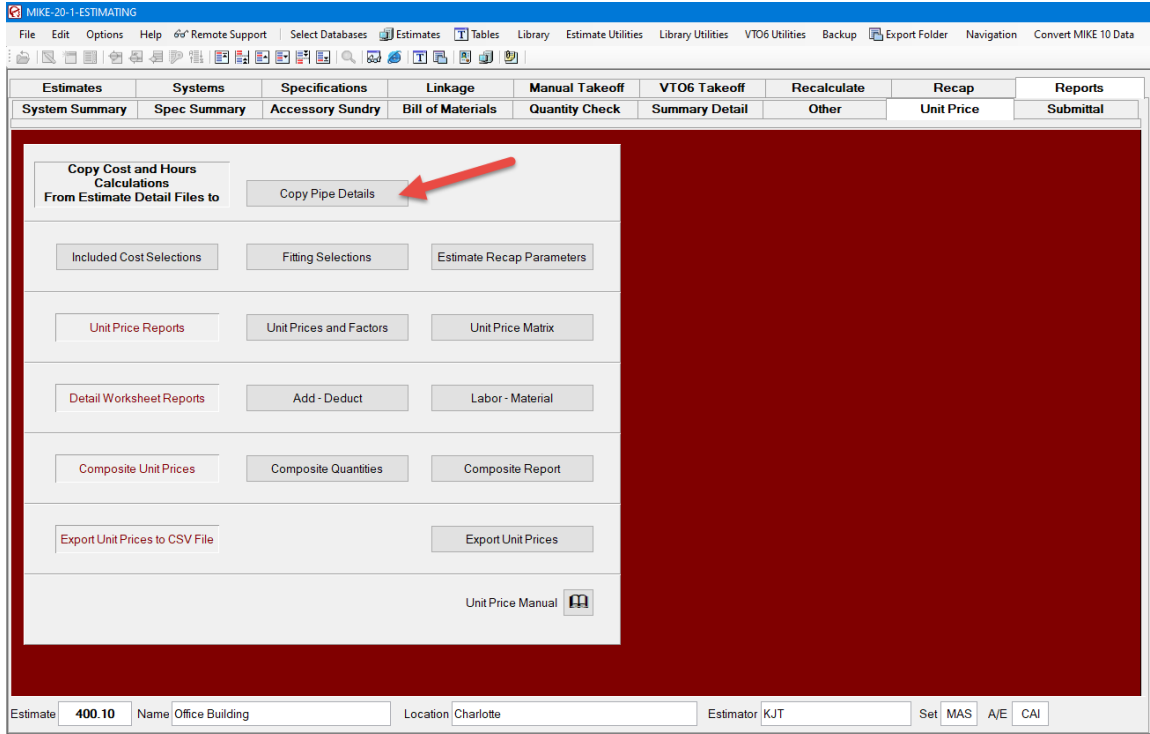


The Unit Prices process created **45 Detail Records**.



Number 10: Reports *tab* (continued) Unit Prices

The only change in the **Unit Price Report** *tab* is the *button* that used to read **Generate** now reads **Copy Pipe Details**. After that Unit Price works as it did in MIKE 10.



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