

# AASHTO TRNS\*PORT® ESTIMATOR™ v2.9a

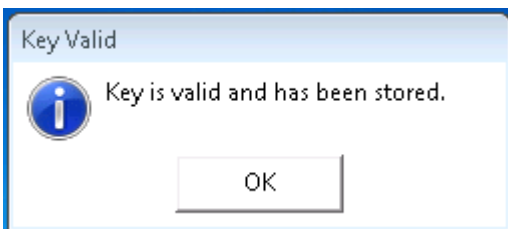
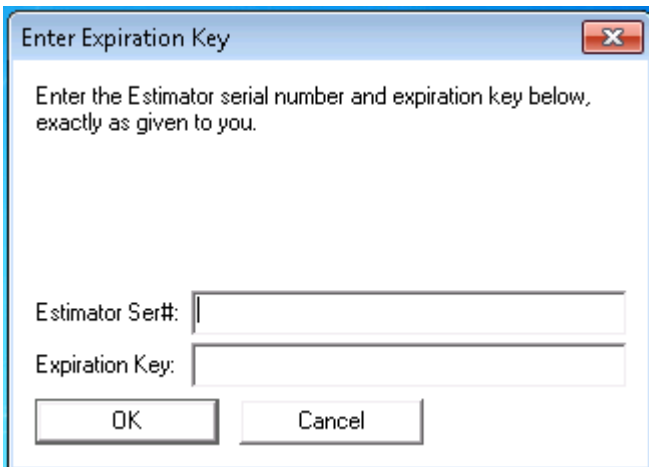
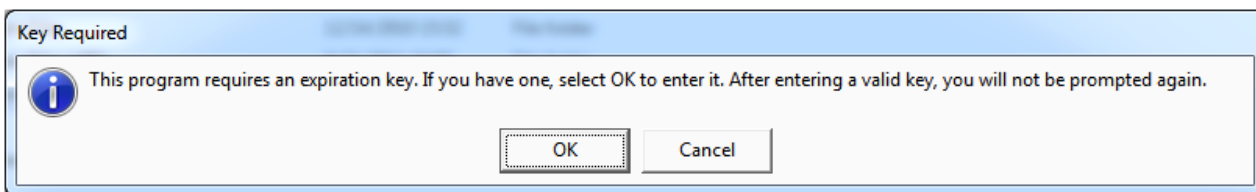
## Step by Step Users' Guide for SHA Estimates

### 2012

**Introduction:** Trns·port Estimator was developed by Info Tech, Inc. for transportation agencies and their design consultants. It is licensed nationwide by the American Association of State Highway and Transportation Officials (AASHTO). Data for producing estimates is stored in one or more catalogs that include: category code book items, wages, production rates, historical item price data, and equipment and material costs. It is designed to upload to the Trns·port Proposal and Estimates System (PES).

#### Starting the Estimator 2.9a program for the first time.

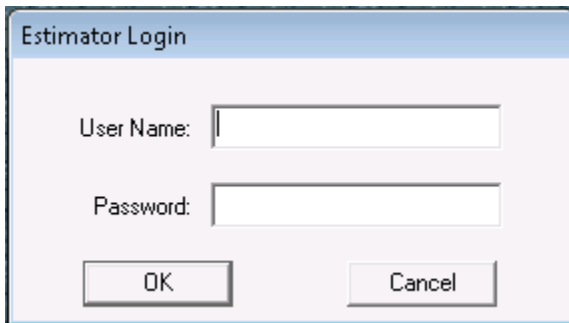
The First time you use this software application on your computer, you will need to enter the expiration key before you can login. Please follow the instructions on the screen (as shown below).



# info TECH Estimator™

[www.infotechfl.com](http://www.infotechfl.com)

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The image shows a screenshot of a software dialog box titled "Estimator Login". It features two input fields: "User Name:" and "Password:". Below the input fields are two buttons: "OK" and "Cancel". The dialog box has a light blue header and a light gray body.

## Add Catalog (This needs to be done the first time only):

- Download the latest catalog from the SHA Internet site (**MDCATALOG08**).
- Click on Under the **Tools** menu, click **Add Catalog**.
- Navigate to where you saved the catalog and click on **MDCATALOG08**.

## Creating an Estimate Header

- Click the **New Icon** (White sheet of paper on Tool Bar) or under the file menu, **Click New**.
- Select **Edit** from the menu bar, then
- click on **Estimate Options** and
- check **“Only Transport items and codes allowed”**.
- Click **OK** to close the dialog box and begin entering data.

The screenshot shows the 'Estimate MO2615177' dialog box in the Estimator software. The 'Project No.' is MO2615177. The form contains the following data:

Estimate ID:	MO2615177	Work Type:	83	URBAN STREET RECONS
Spec Year:	08	Highway Type:	SARE	SAFETY AND RESURFACE
Base Date:	12/ 5/2012	Urban/Rural Type:	URBN	URBAN
Unit System:	E	Season:	SPRI	SPRING
Longitude of Midpoint:	770000 (DDMMSS)	County:	MD	MONTGOMERY
Latitude of Midpoint:	390000 (DDMMSS)	District:	3	
Federal/State Project Number:	MO2615177	Estimate Cost:	704,519.75	
		Contingency %:	0.00	
		Estimate Total:	704,519.75	

The Description field contains: MD 410 from Park Avenue to MD 650 (Safety and Resurfacing)

<b>Page 1 Tab:</b>	Type in fields required by your SHA Division, i.e, OOM, OOS, OHD.
<b>Estimate ID:</b>	Type the contract number in this field.
<b>Base Date:</b>	Enter Bid Opening Date if known or 1 year from the date estimate’s created.
<b>Longitude of Midpoint:</b>	Enter 770000, if project’s actual Degrees, Minutes and Seconds are unknown.
<b>Latitude of Midpoint:</b>	Enter 390000, if project’s actual Degrees, Minutes and Seconds are unknown.
<b>Work Type:</b>	Select from drop down menu (arrow). See the last digits of the Contract No. for the funding source.
<b>Highway Type:</b>	Select from drop down menu (arrow). See Ad Schedule: Type of Work – Geometric Improvements, Safety & Resurfacing, Bridge Widening, Wetland Mitigation, Noise Barrier.
<b>Season</b>	Select the season from drop down menu (arrow) when the Notice to Proceed (NTP) will occur.
<b>County:</b>	Select from drop down menu, which is the first 2 letters of the contract number.
<b>District:</b>	Select one district reference associated with the project’s county from 1 to 7.
<b>Federal/State Project Number:</b>	Enter Federal Aid Programming (FAP) Number, State Funded or N/A.
<b>Description:</b>	Enter your project description such as MD 36 AT 0.16 MILES SOUTH OF JEALOUS ROW (MOUNT SAVAGE) – EMERGENCY SLIDE REPAIR.

At this point you will see your estimate begins to build on the left side of the screen.

**Page 2 Tab:**

Estimator

File Edit View Tools Window Help

Estimate MO2615177

Project No. MO2615177

	Name	Date
Estimated By:	Tom Revelle	12/ 5/2011
Checked By:	Tom Revelle	12/ 9/2011
Approved By:	Tom Revelle	12/12/2011
Estimate Type:	SAFETY AND RESURFACING	

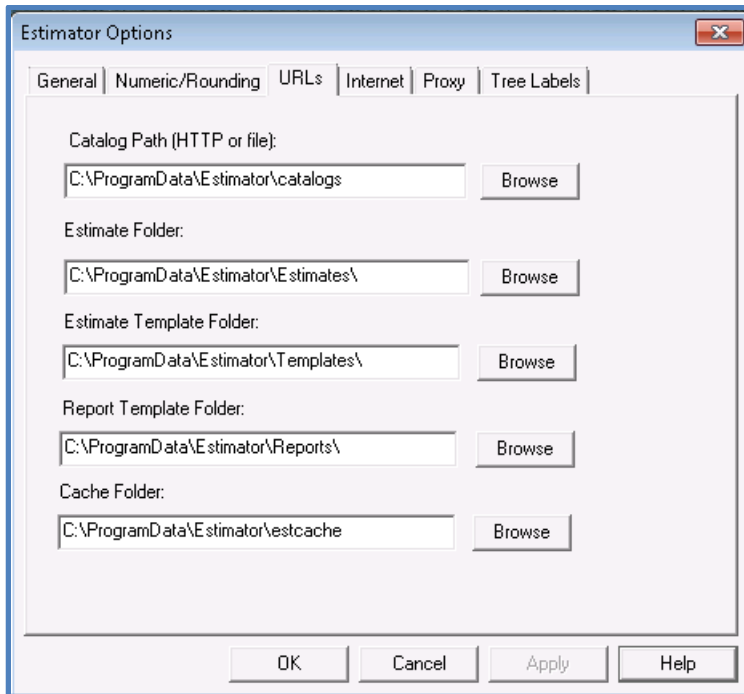
Page 1 Page 2 Notes

Groups All Items Extra Data

Ready NUM

<b>Estimated By:</b>	Name of person creating the estimate—defaulted to OWNER’s name.
<b>Checked By:</b>	For person checking estimate.
<b>Approved By:</b>	For person who approves an estimate.
<b>Estimate Type:</b>	Currently Not Used by SHA, but “Highway Type” can be entered.
<b>Notes Tab:</b>	Enter any notes needed to describe your estimate.

## Saving an Estimate



### Settings for Where Your Files are Saved

- Select **Global Options** from the **Tools** menu.
- Click on **URL's tab** to display the above options.

This page contains the paths for your catalog directory, your estimate directory, and your template folder.

Catalog Path	DO NOT CHANGE THIS PATH
Estimate Folder	This is the directory to which new estimates are saved. Default to Local Drive <b>C:\ProgramData\Estimator</b> directory
Template Folder	This is the directory where estimate templates are kept.

**REMEMBER:** Estimator Global options are set to **SAVE** every 15 minutes.

However, save often in case of a power outage etc.

- Select **SAVE AS** from the **FILE** menu the first time you save. Set up the drive and folder where you want to save your estimates. Your contract number should automatically appear in the File Name field.
- To save an estimate already saved once, Select **FILE** and **SAVE**.

## Change Window View:

To see the full screen, click on the full screen (maximize) windows icon on the upper right title bar or select **Tile Horizontally** from the Window menu.

The left side of the window pane is called the **Tree Area**. Usually on the right side of the pane is the **Grid Area**. The Grid area displays a list of the items selected in the tree area.

## Adding Estimate Group(s): (funding, items, item prices)

Estimate groups consist of items and the item price basis.

The screenshot shows the Estimator software interface for project MO2615177. The left pane displays a tree view of the project structure, including groups for Preliminary, Grading, Drainage, Paving, Shoulders, Landscaping, Signal and Lighting, and Miscellaneous. The right pane shows the details for Group 0005, including its number, total value, and description. A tooltip is displayed over item 504440, showing its description and price. The bottom pane displays a grid of items with columns for Line #, Item #, Quantity, Unit, Unit Price, Extension, Alt Code, and Description.

Group Number: 0005 Group Total: 385,504.75  
Alt Code:   
Group Description: Paving

Item 504440  
HOT MIX ASPHALT SUPERPAVE 25.0MM FOR PARTIAL DEPTH PATCH, PG64-22, LEVEL-2  
Price: 140.00000  
Source: Ad Hoc

Line #	Item #	Quantity	Unit	Unit Price	Extension	Alt Code	Description
0027	504102	10.00	TON	100.00000	1,000.00		HOT MIX ASPHALT SUPERPAVE 9.5
0028	504168	1,438.00	TON	100.00000	143,800.00		HOT MIX ASPHALT SUPERPAVE 9.5
0029	504428	810.00	TON	150.00000	121,500.00		HOT MIX ASPHALT SUPERPAVE 25
0030	504440	92.00	TON	140.00000	12,880.00		HOT MIX ASPHALT SUPERPAVE 25
0031	504600	10,000.00	EA	1.00000	10,000.00		PRICE ADJUSTMENT FOR ASPHALT
0032	504605	5,033.00	EA	1.00000	5,033.00		PAYMENT ADJUSTMENT FOR PAVE
0033	504610	5,033.00	EA	1.00000	5,033.00		PAYMENT ADJUSTMENT FOR HOT

## Group Headers

The screenshot shows the 'Estimator - [Estimate MO2615177]' window. The left sidebar lists project groups from 0001 to 0010. The main area contains various input fields for project metadata, including Estimate ID, Spec Year, Base Date, Unit System, Longitude of Midpoint, Latitude of Midpoint, Federal/State Project Number, Work Type, Highway Type, Urban/Rural Type, Season, County, and District. Summary fields for Estimate Cost, Contingency %, and Estimate Total are also present. Below the metadata is a 'Description' section with tabs for Page 1, Page 2, and Notes. At the bottom is a table of group headers.

	Group Name	Group Total	Alternate Code	Description
GO	0001	235,032.00		Preliminary
GO	0002	3,060.00		Grading
GO	0003	0.00		Drainage
GO	0005	385,504.75		Paving
GO	0006	77,203.00		Shoulders
GO	0007	2,220.00		Landscaping
GO	0008	1,500.00		Signal and Lighting
GO	0009	0.00		Miscellaneous
GO	0010	0.00		

At the bottom of the window, there are 'Groups' buttons for 'All Items' and 'Extra Data', and a 'NUM' field.

### ADD Group Header

Once a group is created, the group header information must be completed. After the group header information is filled out, you can start adding items to your group.

- Click on 0001 under **Group Name**.
- Tab to **Description**.
- Type in the Category Title such as Preliminary, Grading, Drainage, Structures, Paving, Shoulders, Landscaping, Traffic Signals & Lighting, etc.

**NOTE:** left side tree area pane now has the header and the group (funding).

The screenshot shows the 'Estimator' software window for project 'MO2615177'. The left pane displays a tree view of project groups. The main area contains a form with various project parameters and a summary table.

**Project Details:**

- Estimate ID: MO2615177
- Spec Year: 08
- Base Date: 12/ 5/2012
- Unit System: E
- Longitude of Midpoint: 770000 (DDMMSS)
- Latitude of Midpoint: 390000 (DDMMSS)
- Federal/State Project Number: MO2615177
- Work Type: 83 URBAN STREET RECONS
- Highway Type: SARE SAFETY AND RESURFACE
- Urban/Rural Type: URBN URBAN
- Season: SPRI SPRING
- County: MD MONTGOMERY
- District: 3
- Estimate Cost: 704,519.75
- Contingency %: 0.00
- Estimate Total: 704,519.75

**Group Summary Table:**

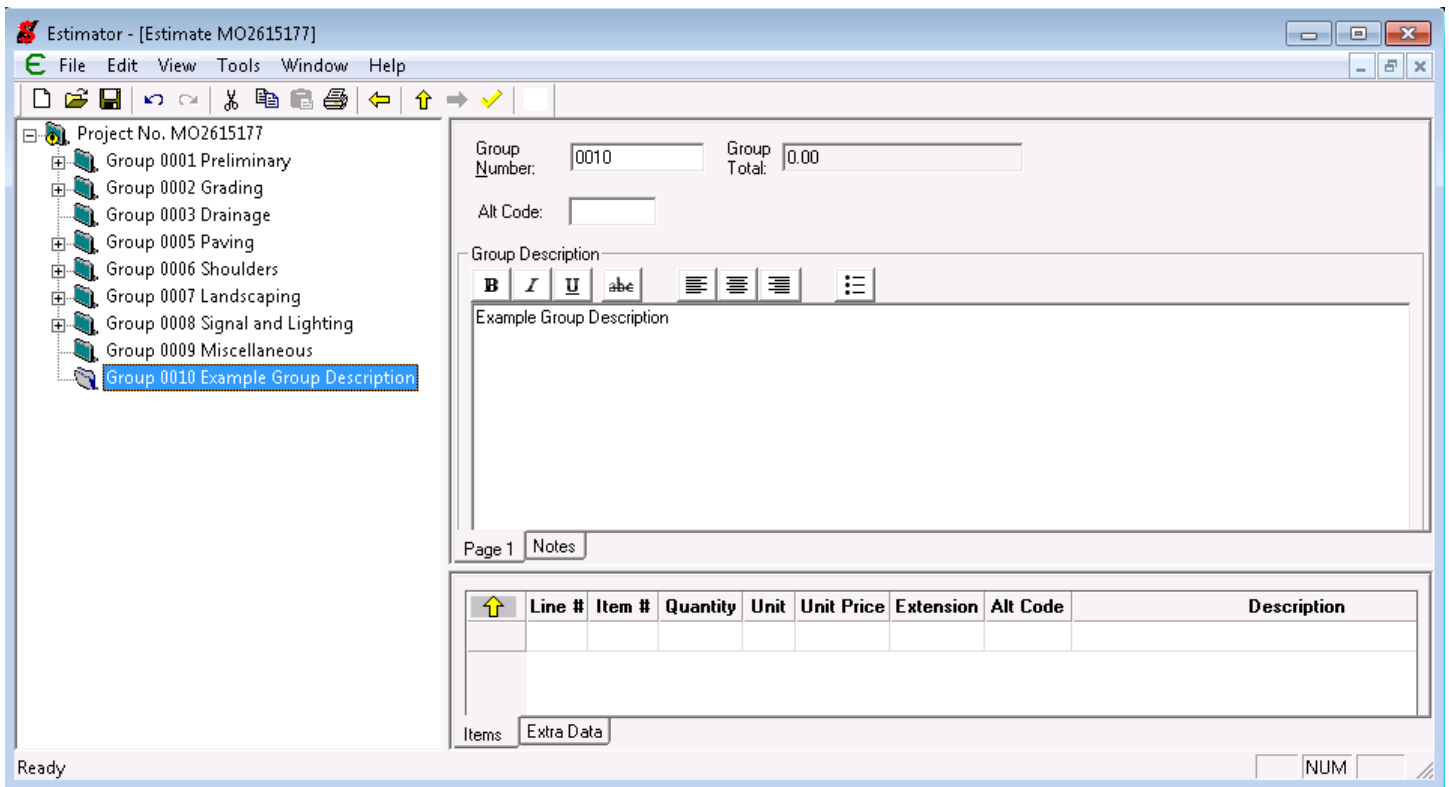
Group Name	Group Total	Alternate Code	Description
0001	235,032.00		Preliminary
0002	3,060.00		Grading
0003	0.00		Drainage
0005	385,504.75		Paving
0006	77,203.00		Shoulders
0007	2,220.00		Landscaping
0008	1,500.00		Signal and Lighting
0009	0.00		Miscellaneous
0010	0.00		Example Group Description

The interface includes a 'Description' section with 'Page 1', 'Page 2', and 'Notes' tabs. At the bottom, there are 'Groups', 'All Items', and 'Extra Data' buttons, and a 'NUM' field.

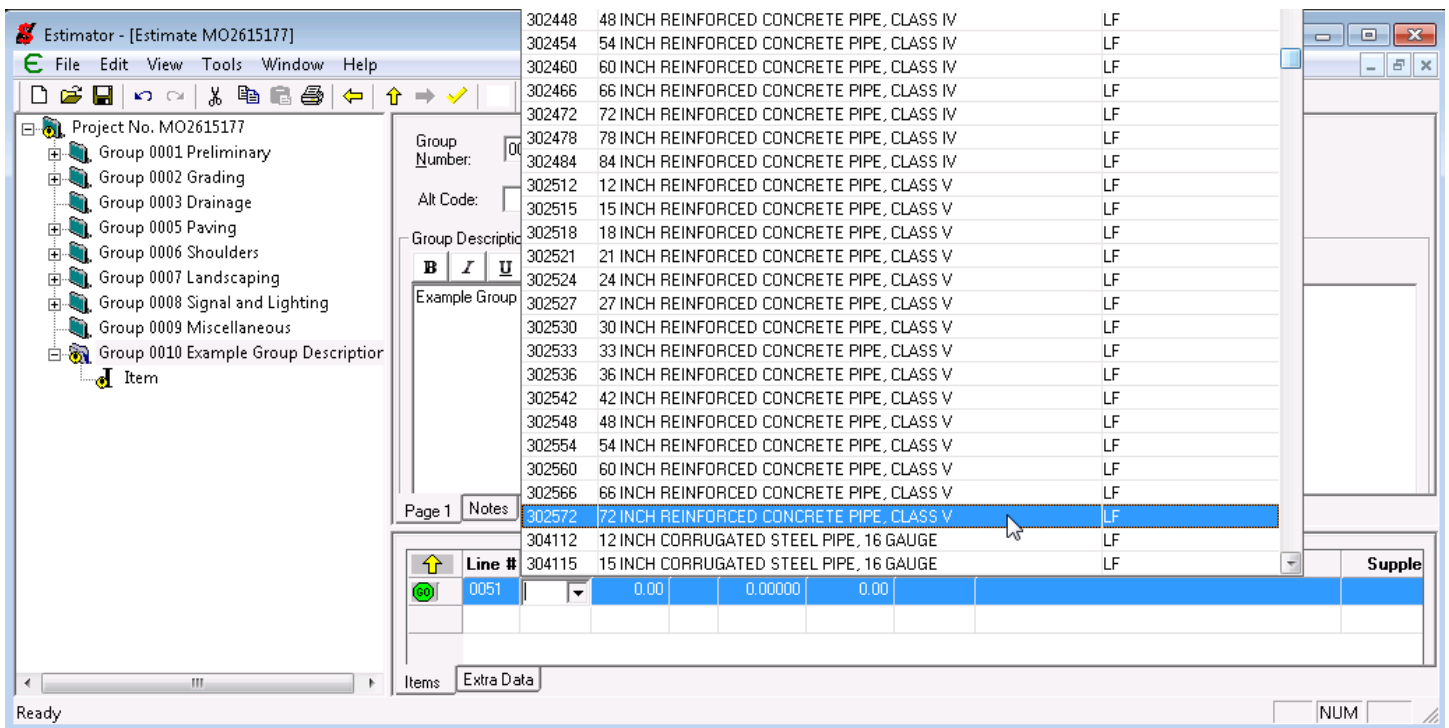
Click on the **green "GO"** (to get the following screen).



## ADDING ITEMS:



Click in the **Line #** box in the Grid area.

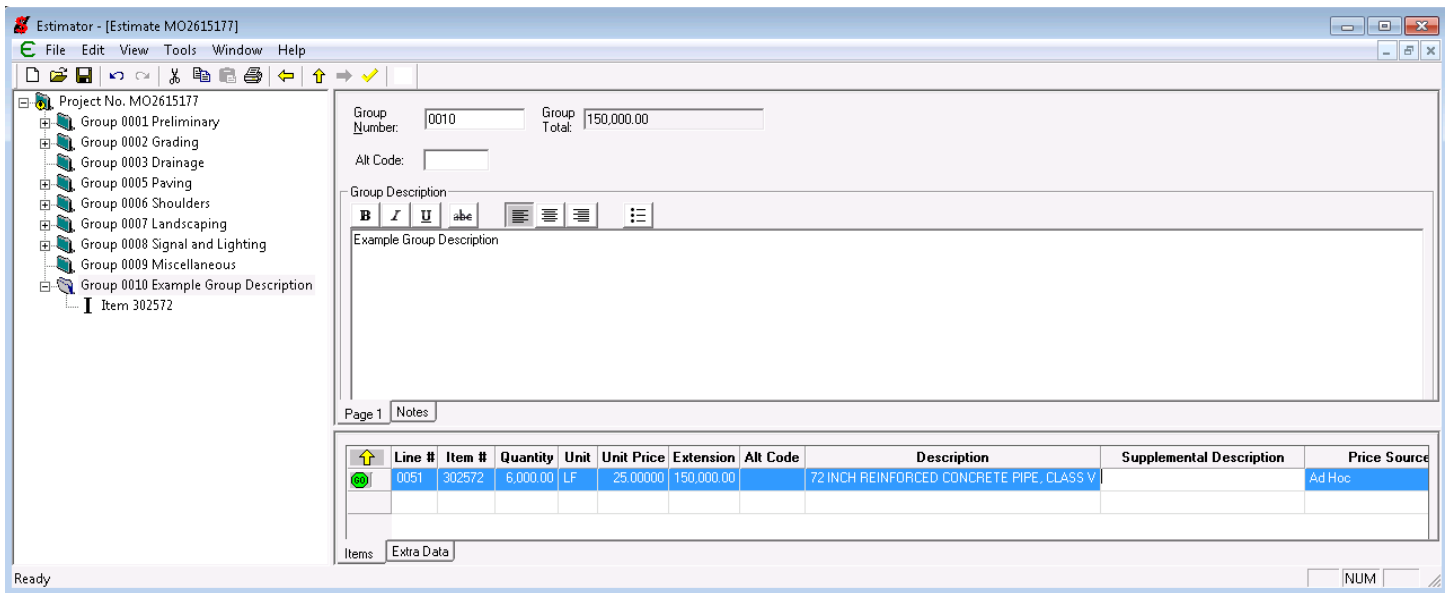


Type in your Line Number 1001 or keep it as it appears 0005 (PES will renumber these correctly).

Tab over to **Item #**. Type in the six digit category code number or go through the list and find code (see next page).

Tab over to fill in **Quantity**.

Tab over twice to fill in **Unit Price (DON'T CHANGE UNIT)**.



### Alternate Way to Order Items:

To Sort Items in a Group (Category) by Numerical Order According to Category Code:

- Click on a **Project Group** (Category) from the left side of screen which will then display on the right hand side.
- Click on the column heading **ITEM #**.

### Renumber Selected Items within a Group (Category)

1. <b>Select a Project Group</b> (Category) on the left side of the screen to display on the right.
2. <b>Highlight the items</b> to be renumbered in the <b>Line #</b> column.
3. <b>Right Click</b> on these numbers and select <b>Renumber Items</b>
4. <b>Or Select Edit</b> then <b>Renumber Item Numbers</b> .
5. Enter the desired <b>Starting Line Number</b> and <b>Click OK</b> .

## Category Code List

Code	Description
120500	MAINTENANCE OF TRAFFIC
120510	MAINTENANCE OF TRAFFIC
120520	GLARE SCREEN FOR MAINTENANCE OF TRAFFIC
120540	BANK RUN GRAVEL SUBBASE FOR MAINTENANCE OF TRAFFIC
120552	CRUSHER RUN AGGREGATE CR-6 FOR MAINTENANCE OF TRAFFIC
120555	GRADED AGGREGATE BASE FOR MAINTENANCE OF TRAFFIC
120561	HOT MIX ASPHALT FOR MAINTENANCE OF TRAFFIC
120565	HOT MIX ASPHALT CURB FOR MAINTENANCE OF TRAFFIC
120571	STEEL PLATE 8 FOOT X 12 FOOT X 1 INCH FOR MAINTENANCE OF TRAFFIC RENTAL PER
120610	ARROW PANEL
120611	PORTABLE FLASHING ARROW PANEL, RENTAL PER DAY
120620	TEMPORARY TRAFFIC SIGNS TYPE III RETROREFLECTIVE SHEETING
120625	TEMPORARY TRAFFIC SIGNS HIGH PERFORMANCE WIDE ANGLE RETROREFLECTIVE SH
120630	TEMPORARY RAISED PAVEMENT MARKERS
120635	SIGNS FOR MAINTENANCE OF TRAFFIC, RENTAL PER DAY
120640	REMOVAL OF TEMPORARY RAISED PAVEMENT MARKERS
120645	TRAFFIC CONES, RENTAL PER DAY
120662	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS - ANY WIDTH
120690	TUBULAR MARKERS
120697	REPLACEMENT OF TUBULAR MARKER MAST
120700	TEMPORARY CONCRETE SINGLE FACE TRAFFIC BARRIER FOR MAINTENANCE OF TRAFF
120704	TEMPORARY CONCRETE BARRIER, RENTAL PER DAY
120705	PRECAST TEMPORARY 32 INCH JERSEY SHAPE CONCRETE TRAFFIC BARRIER
120707	TEMPORARY CONCRETE BARRIER, RENTAL PER DAY

Code	Description	Quantity	Unit	Price
0005	120500	1.000	LS	1,500.00000
0010	700000-EA	190.000	EA	30.00000
0015	700000-EA	81.000	EA	32.00000
0020	700000-EA	81.000	EA	21.00000
0025	700000-EA	190.000	EA	40.00000
0030	700000-EA	81.000	EA	36.00000

Open the current Catalog (Category Code Book; also called Standard Item Catalog or open another Estimator catalog or Code Table Catalog).

1. Select **View Current Catalog** from the **Tools** menu.
2. View the *Standard Item Catalog* by highlighting the title **Standard Item Catalog** in the tree area. A Grid Area of the standard item shows in the right pane.
3. Position the opened catalog and estimate so both are visible in the Estimator Window.
4. In the Grid Area scroll to an item that you need. Click the **GO** button **next to that item**. That will show you the detailed information for the item and highlight it in the tree view.
5. Select the item **in the tree view**. While pressing and holding down your left mouse button, **drag that item** to the correct **Group number** in your estimate. Estimator copies that as a new item number.
6. **Close** the Current Catalog by making it the active window, then selecting **Close** from the **File** menu.

## Supplemental Descriptions

Tab over to fill in supplemental description if needed.

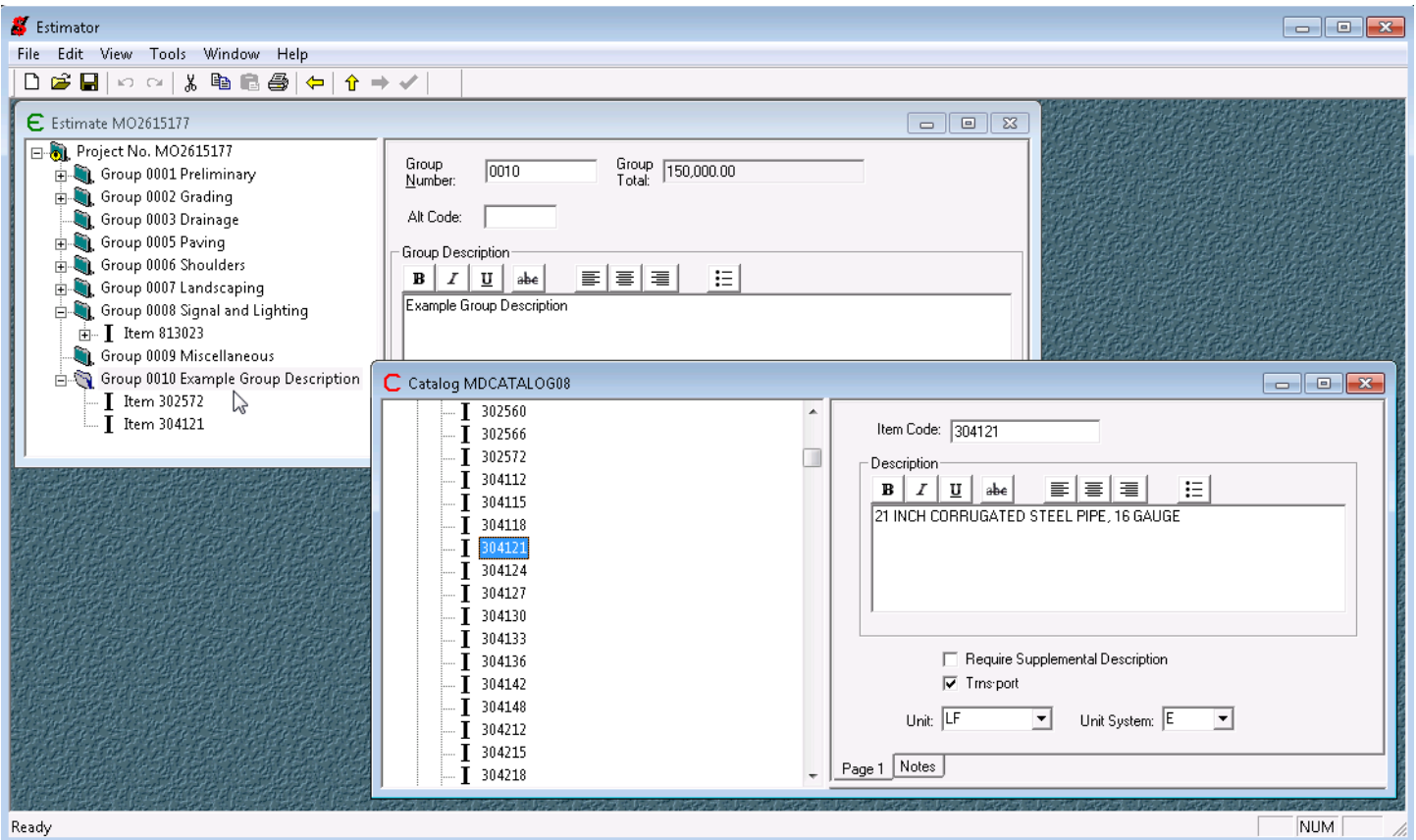
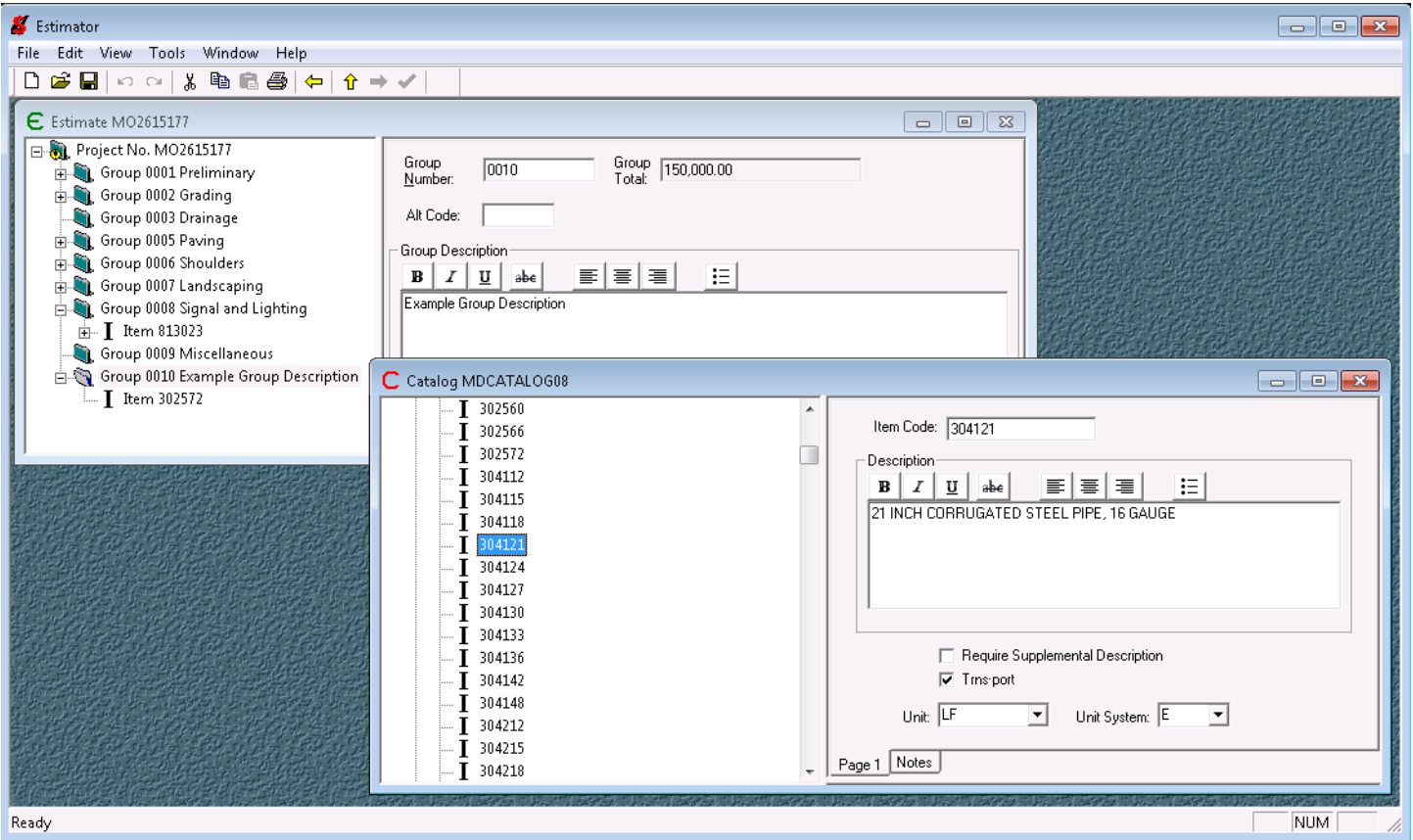
The screenshot shows the 'Estimate PG7435126' window. On the left is a tree view for 'Project No. PG7435126' with a sub-tree for 'Category (Group) 0201' containing items from 110100 to 715015. The main area shows 'Group Number: 0201' and 'Group Total: 531,180.00'. Below this is a 'Group Description' field containing '20 - ENVIRONMENTAL ONLY - NH 80%'. At the bottom, a table titled 'Supplemental Description' is visible, listing items with their descriptions and price sources.

Supplemental Description	Price Source
	Ad Hoc
	Ad Hoc
CONCRETE POSTS	Ad Hoc
DOUBLE NOISE BARRIER SYSTEM PANELS AND POSTS	Ad Hoc
REMOVE EXISTING NOISE BARRIER PANELS AND POSTS	Ad Hoc
INSTALL/RESET NOISE BARRIER	Ad Hoc
	Ad Hoc
	Ad Hoc
MOLLINIA CAERULEA 'VARIEGATA' 1 GAL. CONTAINER	Ad Hoc
HEMEROCALLIS (STELLA D'ORO) 1 GALLON CONTAINER	Ad Hoc
LEYLAND CYPRESS, 3 GALLON CONTAINER 5 FOOT HEIGHT	Ad Hoc
STONE MULCH, 3" DEPTH	Ad Hoc

Continue tabbing through until all of your items are in.

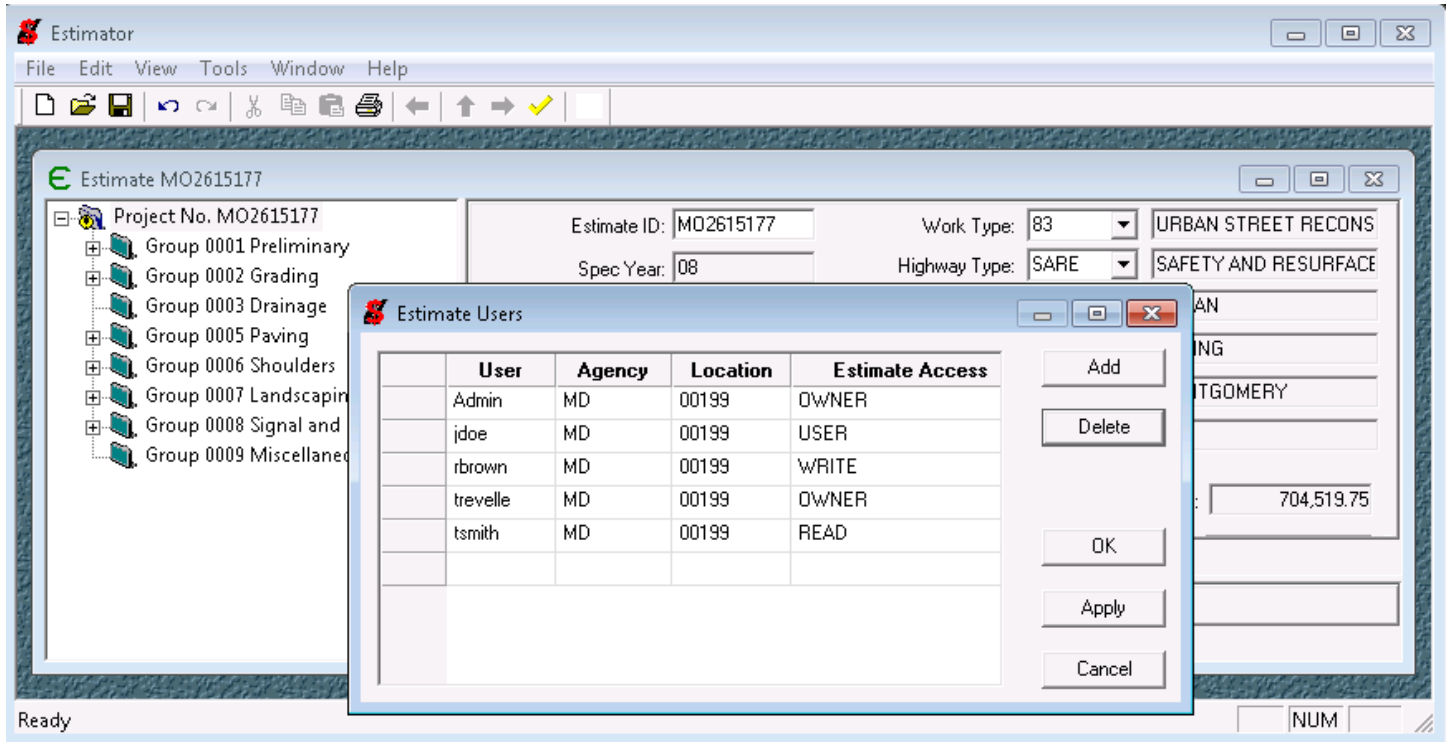
The screenshot shows the 'Estimator' application window. The main window displays 'Estimate MO2615177' with a tree view of groups (0001 Preliminary to 0010 Example Group Description) and items (813023, 302572). The 'Group Number' is 0010 and the 'Group Total' is 150,000.00. A 'Catalog MDCATALOG08' window is open in the foreground, showing a list of items from the 'Standard Item Catalog'. Item 304121 is selected.

Item Number	Description
304115	15 INCH CORRUGATED STEEL PIPE, 16 GAUGE
304118	18 INCH CORRUGATED STEEL PIPE, 16 GAUGE
304121	21 INCH CORRUGATED STEEL PIPE, 16 GAUGE
304124	24 INCH CORRUGATED STEEL PIPE, 16 GAUGE
304127	27 INCH CORRUGATED STEEL PIPE, 16 GAUGE
304130	30 INCH CORRUGATED STEEL PIPE, 16 GAUGE
304133	33 INCH CORRUGATED STEEL PIPE, 16 GAUGE
304136	36 INCH CORRUGATED STEEL PIPE, 16 GAUGE
304142	42 INCH CORRUGATED STEEL PIPE, 16 GAUGE
304148	48 INCH CORRUGATED STEEL PIPE, 16 GAUGE
304212	12 INCH CORRUGATED STEEL PIPE, 14 GAUGE
304215	15 INCH CORRUGATED STEEL PIPE, 14 GAUGE
304218	18 INCH CORRUGATED STEEL PIPE, 14 GAUGE



## Assigning users to your particular estimate:

Select **Estimate Users** from the **Edit** menu. Estimator opens the **Estimate Users Window**.



The **Engineer's Estimate Users List** displays four fields for each person authorized to open your engineer's estimate. (See table below.)

- Click on **Add**.
- Add the SHA person to whom the file will be sent.
- Click on **Apply**.
- Click on **OK**.

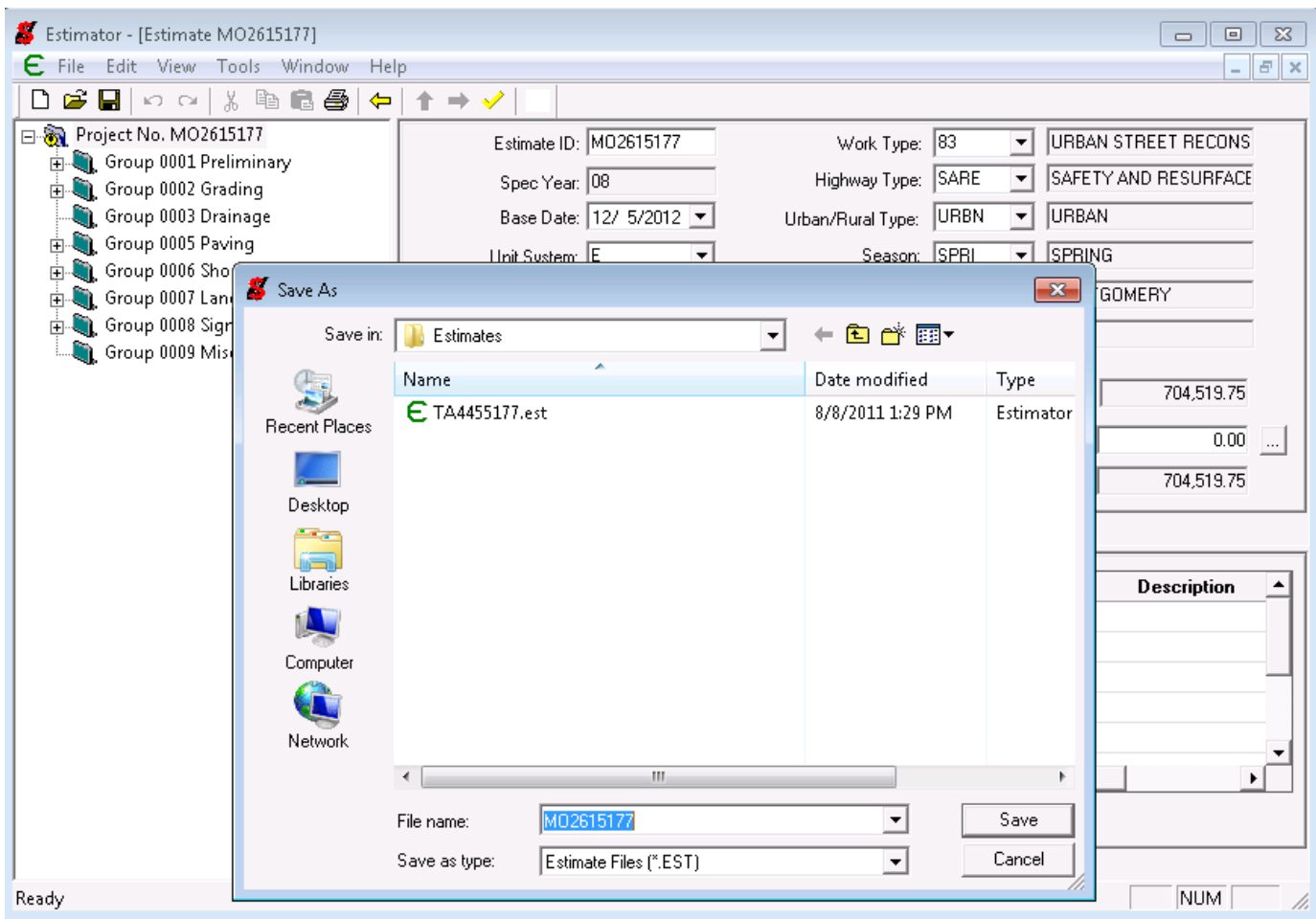
<b>Username</b>	The Username field displays the username of an Estimator user Authorized to open the estimate file.
<b>Agency</b>	The Agency field is used to determine to which agency a user belongs – use 'MDSHA'.
<b>Location</b>	The Location field determines where in the agency a user belongs – use '00000'.
<b>Estimate Access</b>	The Estimate Access field displays your permission or clearance level for the active estimate.
	<b>OWNER</b> permission means that user can view any window and edit any data in an estimate, including the Estimate Users List. Automatically assigned to the person creating a new estimate.
	<b>USER</b> permission means that user can view any window and edit any data in an estimate, including the Estimate Users List. However, unlike a user with OWNER access, this user cannot edit anyone on the Users List that has OWNER access.

	<b>WRITE</b> permission means that user has clearance to view and edit any window in an estimate.
	<b>READ</b> permission means that user has clearance to view any window in the estimate. A user with read permission cannot edit or change any data.

### Adding users to the Master User List

This list contains the username of each user authorized to use Estimator. If someone name is not in the list, they cannot be given permission to open an estimate. To add, change or delete users from the list, please contact SHA via the email addresses published on the [AASHTO'S TRNS\\*PORT@ ESTIMATOR](#) SHA web page with the person's name, Agency, Location and identify whether the information is entered in lowercase, Title case, or UPPERCASE.

### SAVE YOUR ESTIMATE



Click on **File** and **Save**

- Estimator will automatically use your contract number as the file name.
- This “.est” file, along with any Special Provisions, will be sent electronically to the Project Manager, Project Engineer, Landscape Architect, etc., for advertisement of the project.

## Printing an Estimate

Estimator uses Crystal Reports to produce a printout of your estimate. When you print an estimate, detailed information about the price basis being used for each item can also be printed if specified.

- Open the estimate you want printed.
- Select **PRINT PREVIEW** from the **FILE** menu. Estimator displays an **Estimate Print Options** box that contains several options.

## Print Options Box

Show Item Descriptions	<b>If selected</b> , includes Item Description and Supplemental Description with above information.
Show Price Bases Details	<b>Select</b> - None, Summary or Detailed includes Item Description and Supplemental Description with above information.
Show Inactive Price Bases	<b>If selected</b> , includes a report with Price Bases information.



# Report Header Page

Print Preview

100% 1 of 4

powered by crystal

## Test Estimate MO2615177

Estimated Cost:\$704,519.75  
Contingency: 0.00%  
**Estimated Total: \$704,519.75**

MD 410 from Park Avenue to MD 650 (Safety and Resurfacing)

**Base Date: 12/05/12**

Spec Year: 08  
Unit System: E

Work Type: URBAN STREET RECONSTRUCTION  
Highway Type: SAFETY AND RESURFACE  
Urban/Rural Type: URBAN  
Season: SPRING  
County: MONTGOMERY  
Midpoint of Latitude: 390000  
Midpoint of Longitude: 770000  
District: 3  
Federal/State Project Number: MO2615177  
Estimate Type: SAFETY AND RESURFACING

*Prepared by Tom Revelle on 12/05/11  
Checked by Tom Revelle on 12/09/11  
Approved by Tom Revelle on 12/12/11*

# Normal Detail Estimate

Print Preview

100% 2 of 3

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Estimate: MO2615177

Line #	Item Number	Quantity	Units	Unit Price	Extension
<b>Group 0001: Preliminary</b>					
0001	110360	1.00	LS	\$40,000.00000	\$40,000.00
0002	114005	8,600.00	LF	\$0.20000	\$1,720.00
0003	114010	1,000.00	LF	\$0.20000	\$200.00
0004	114035	100.00	LF	\$0.30000	\$30.00
0005	114045	100.00	LF	\$0.40000	\$40.00
0006	114215	8,600.00	LF	\$1.00000	\$8,600.00
0007	114220	1,000.00	LF	\$1.00000	\$1,000.00
0008	114235	100.00	LF	\$3.00000	\$300.00
0009	114245	100.00	LF	\$6.00000	\$600.00
0010	114275	9,800.00	LF	\$0.50000	\$4,900.00
0011	120500	1.00	LS	\$52,879.00000	\$52,879.00
0012	120555	25.00	TON	\$30.00000	\$750.00
0013	120561	50.00	TON	\$100.00000	\$5,000.00
0014	120610	100.00	UD	\$40.00000	\$4,000.00
0015	120625	125.00	SF	\$15.00000	\$1,875.00
0016	120784	100.00	LF	\$2.00000	\$200.00
0017	120820	150.00	EA	\$65.00000	\$9,750.00
0018	120860	75.00	UD	\$100.00000	\$7,500.00
0019	120890	75.00	UD	\$150.00000	\$11,250.00
0020	130840	1.00	LS	\$15,000.00000	\$15,000.00
0021	130850	1.00	LS	\$69,438.00000	\$69,438.00
<b>Total for Group 0001:\$235,032.00</b>					
<b>Group 0002: Grading</b>					
0022	201031	10.00	CY	\$100.00000	\$1,000.00
0023	201032	14.00	CY	\$40.00000	\$560.00
0024	202065	10.00	CY	\$40.00000	\$400.00
0025	203030	10.00	CY	\$110.00000	\$1,100.00
<b>Total for Group 0002:\$3,060.00</b>					

# Report with Item Description

Line #	Item Number	Quantity	Units	Unit Price	Extension
<b>Group 0001: Preliminary</b>					
0001	110360	1.00	LS	\$40,000.00000	\$40,000.00
TYPE C ENGINEERS OFFICE					
0002	114005	8,600.00	LF	\$0.20000	\$1,720.00
5 INCH YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT					
0003	114010	1,000.00	LF	\$0.20000	\$200.00
5 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT					
0004	114035	100.00	LF	\$0.30000	\$30.00
12 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT					
0005	114045	100.00	LF	\$0.40000	\$40.00
24 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT					
0006	114215	8,600.00	LF	\$1.00000	\$8,600.00
5 INCH YELLOW REMOVABLE PREFORMED PAVEMENT LINE MARKINGS					
0007	114220	1,000.00	LF	\$1.00000	\$1,000.00
5 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS					
0008	114235	100.00	LF	\$3.00000	\$300.00
12 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS					
0009	114245	100.00	LF	\$6.00000	\$600.00
24 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS					
0010	114275	9,800.00	LF	\$0.50000	\$4,900.00
REMOVAL OF REMOVABLE PREFORMED PAVEMENT MARKINGS - ANY WIDTH					
0011	120500	1.00	LS	\$52,879.00000	\$52,879.00
MAINTENANCE OF TRAFFIC					
0012	120555	25.00	TON	\$30.00000	\$750.00
GRADED AGGREGATE BASE FOR MAINTENANCE OF TRAFFIC					
0013	120561	50.00	TON	\$100.00000	\$5,000.00
HOT MIX ASPHALT FOR MAINTENANCE OF TRAFFIC					
0014	120610	100.00	UD	\$40.00000	\$4,000.00
ARROW PANEL					
0015	120625	125.00	SF	\$15.00000	\$1,875.00

# Report with Price Bases

Line #	Item Number	Quantity	Units	Unit Price	Extension
<b>Group 0001: Preliminary</b>					
0001	110360	1.00	LS	\$40,000.00000	\$40,000.00
TYPE C ENGINEERS OFFICE					
0002	114005	8,600.00	LF	\$0.20000	\$1,720.00
5 INCH YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT					
Regression price 114005                      Active: N                      Unit Price: \$0.22779 Root Mean Square: 0.3206298541                      Standard Deviation: 0.0011638556 Quantity Coefficient: -0.1893065490                      Intercept Coefficient: 0.2355312803 Date Coefficient: 0.0000000000                      Date Square Coefficient: 0.0000000000 Weighted Average: 0.0001178970 Information: 4 matches out of 6 regression models. Model 7 is the best fit regression model with the lowest RMS value of 0.320630. Filtered out 2 of 6 regression models: 0 models with positive quantity coefficient, 2 models do not match the item.					
0003	114010	1,000.00	LF	\$0.20000	\$200.00
5 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT					
Regression price 114010                      Active: N                      Unit Price: \$0.26519 Root Mean Square: 0.3450920628                      Standard Deviation: 0.0009531826 Quantity Coefficient: -0.2358653480                      Intercept Coefficient: 3.9062152387 Date Coefficient: -0.0003424320                      Date Square Coefficient: 0.0000000000 Weighted Average: 0.0000149440					

## **Exiting Estimator**

Select EXIT from the FILE menu.