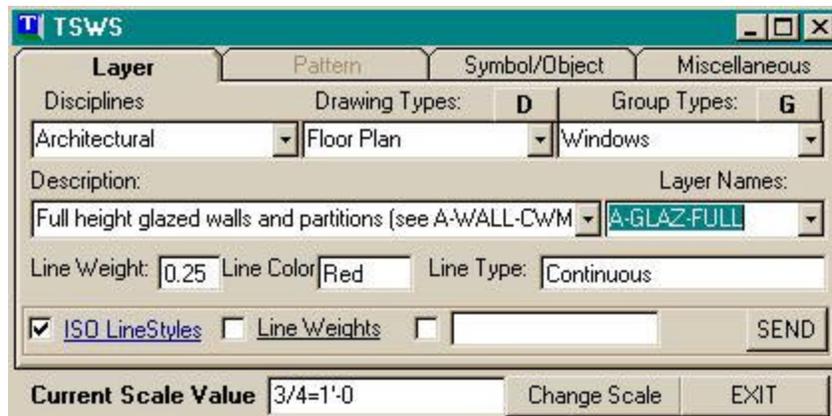


4.0 TSWS_Acad Dialog Box



**US Army Corps
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The screenshot shows the 'TSWS' dialog box with the following settings:

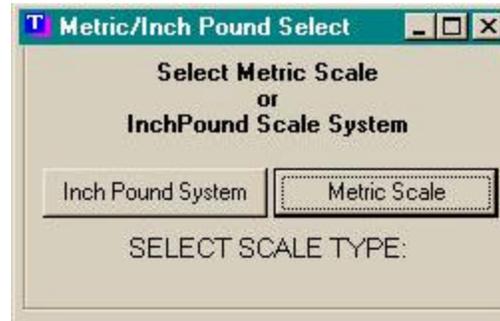
- Layer** tab selected.
- Disciplines:** Architectural
- Drawing Types:** Floor Plan
- Group Types:** Windows
- Description:** Full height glazed walls and partitions (see A-WALL-CWM)
- Layer Names:** A-GLAZ-FULL
- Line Weight:** 0.25
- Line Color:** Red
- Line Type:** Continuous
- ISO LineStyles
- Line Weights
- []
- SEND** button
- Current Scale Value:** 3/4=1'-0
- Change Scale** and **EXIT** buttons

INITIAL SCALE SETTING FORMS

[Return To TSWS_Acad DownLoad Web Site](#)



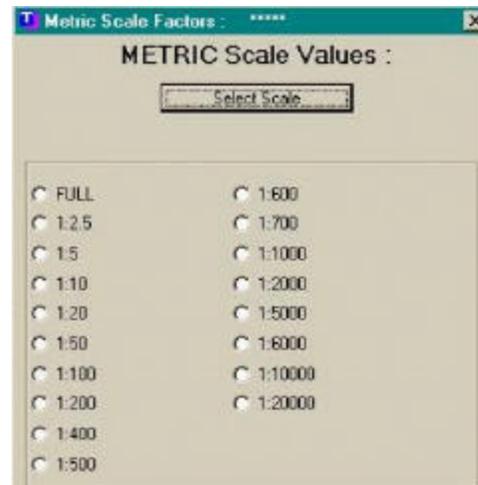
Initial Dialog Box to allow selection for using AIA Layer Names or ISO Layer Names



Initial Dialog Box to allow selection for using Metric or Inch Pound System



Dialog Box to allow selection for using Inch Pound System Scale Values

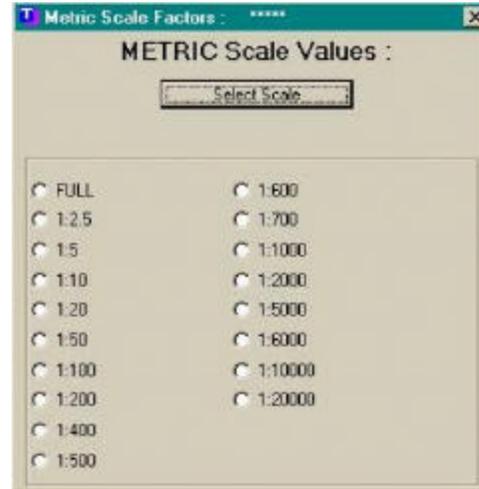


Dialog Box to allow selection for using Metric System Scale Values



SELECT METRIC OR INCH-POUND SCALE SYSTEM

SELECT METRIC OR INCH-POUND SCALE SYSTEM



For a new drawing, the Workspace initially checks in the AutoCAD system variable “*USERS5*” for a scale variable. If this variable is not set, a Selector Menu is brought up to select using the *Metric* system or the *IPS* system.

ARCHITECTURAL/CIVIL SCALE

METRIC SCALE

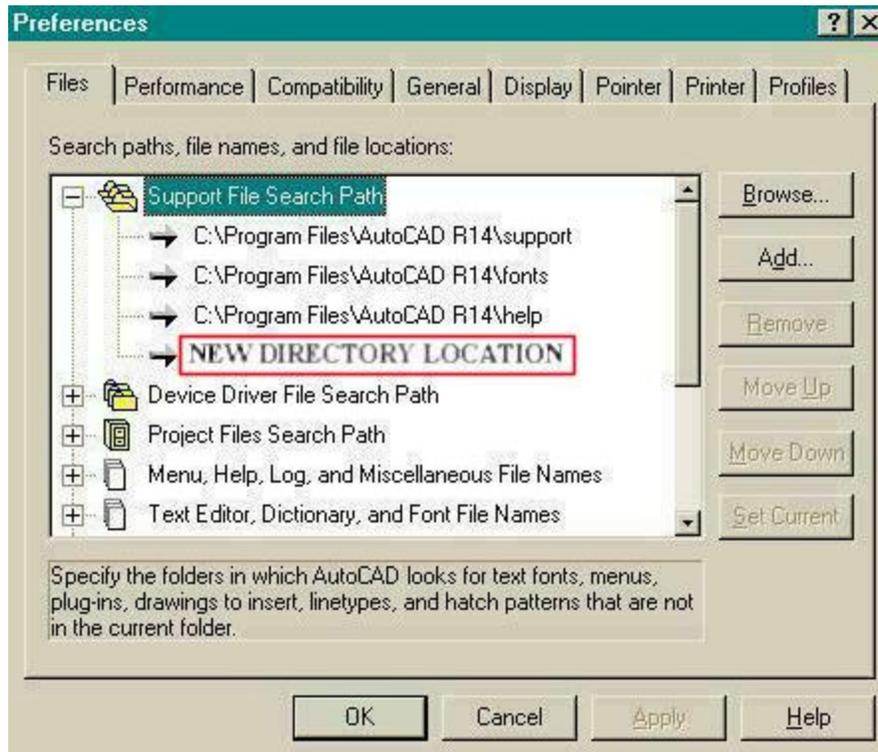
When the *Inch Pound System* has been selected, the **ARCHITECTURAL/CIVIL SCALE** Dialog Box is brought up, and allows the User to select a scale for the drawing.

When the *Metric System* has been selected, the **METRIC SCALE** Dialog Box is brought up, and allows the User to select a scale for the drawing.

The scale factor set will affect only the *SYMBOLS* inserted by the program. *SYMBOLS* are Blocks (such as Section or Elevation markers) that scaled according to the drawing scale to produce the same printed size *SYMBOL* on any drawing no matter what the drawing scale. This scale factor is set in the system variable *USERS5*. After this is done, the user will not be asked for a scale selection for this drawing unless the variable *USERS5* is modified or reset.



AUTOCAD PROFILE SETUP PROCEDURE



Using the AutoCAD Version 14 Preferences



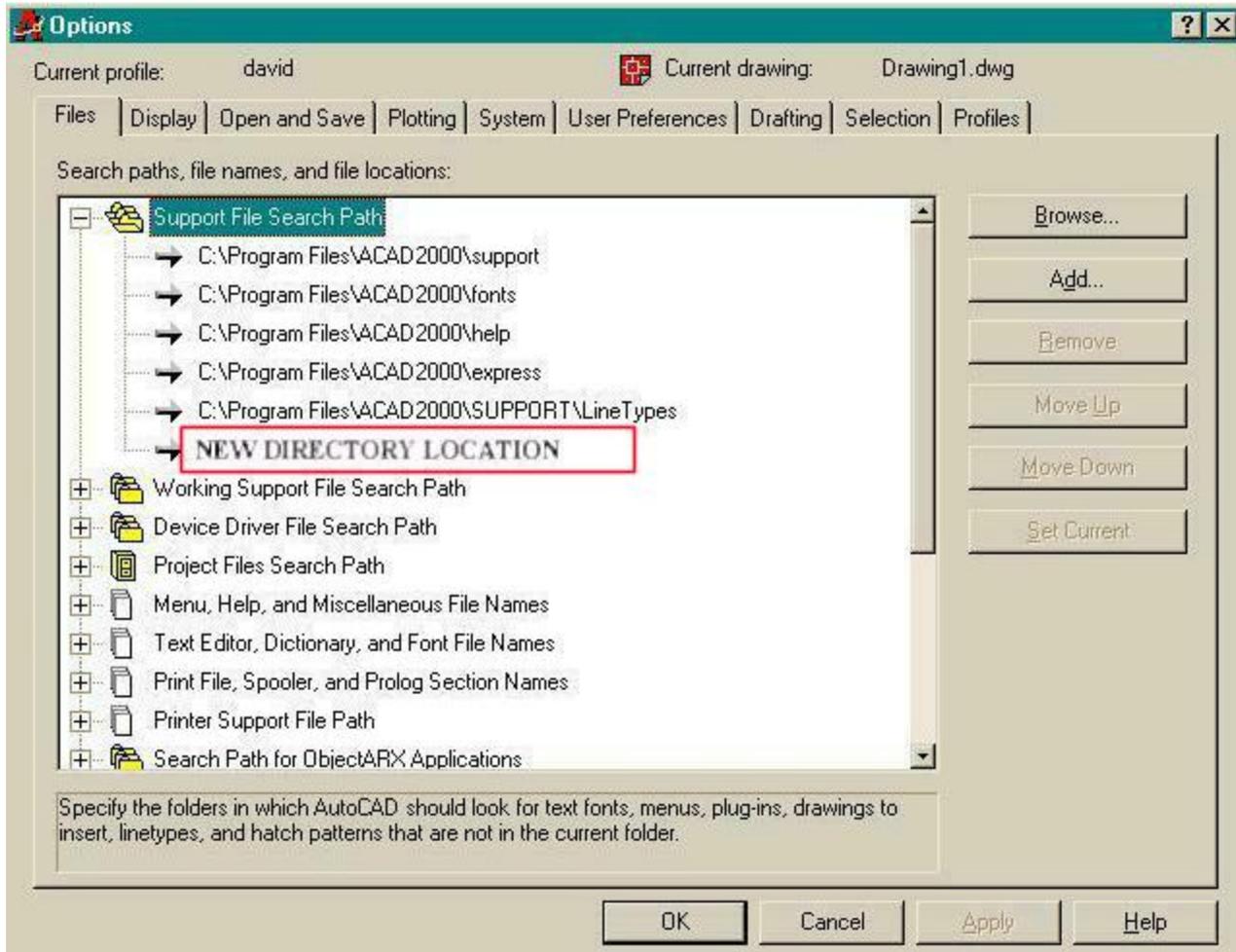
Add additional Support path as shown above (Noted "NEW DIRECTORY LOCATION") to include Pattern, Linetypes files. This will allow the additional Linetypes, hatch patterns and SHX file for the Linetypes, there needs to be an additional file location added to the Support path .

NOTE: THE DIRECTORY LOCATION WHERE THE TSWS FILE IS LOCATED WILL HAVE A SUBDIRECTORY CALLED "...\\ACAD".

This path tells AutoCAD where the pattern, linetype information and SHX file is stored and is referenced by AutoCAD. The "\\ACAD needs to be at the end of the file location for referenced by AutoCAD.



AUTOCAD PROFILE SETUP PROCEDURE



Using the AutoCAD Version2000 Preferences

Add additional Support path as shown above (Noted "NEW DIRECTORY LOCATION") to include Pattern, Linetypes files. This will allow the additional Linetypes, hatch patterns and SHX file for the Linetypes, there needs to be an additional file location added to the Support path .

NOTE: THE DIRECTORY LOCATION WHERE THE TSWS FILE IS LOCATED WILL HAVE A SUBDIRECTORY CALLED "...\\ACAD".

This path tells AutoCAD where the pattern, linetype information and SHX file is stored and is referenced by AutoCAD. The "\\ACAD needs to be at the end of the file location for referenced by AutoCAD.



3.1 TSWS_Acad Dialog Box

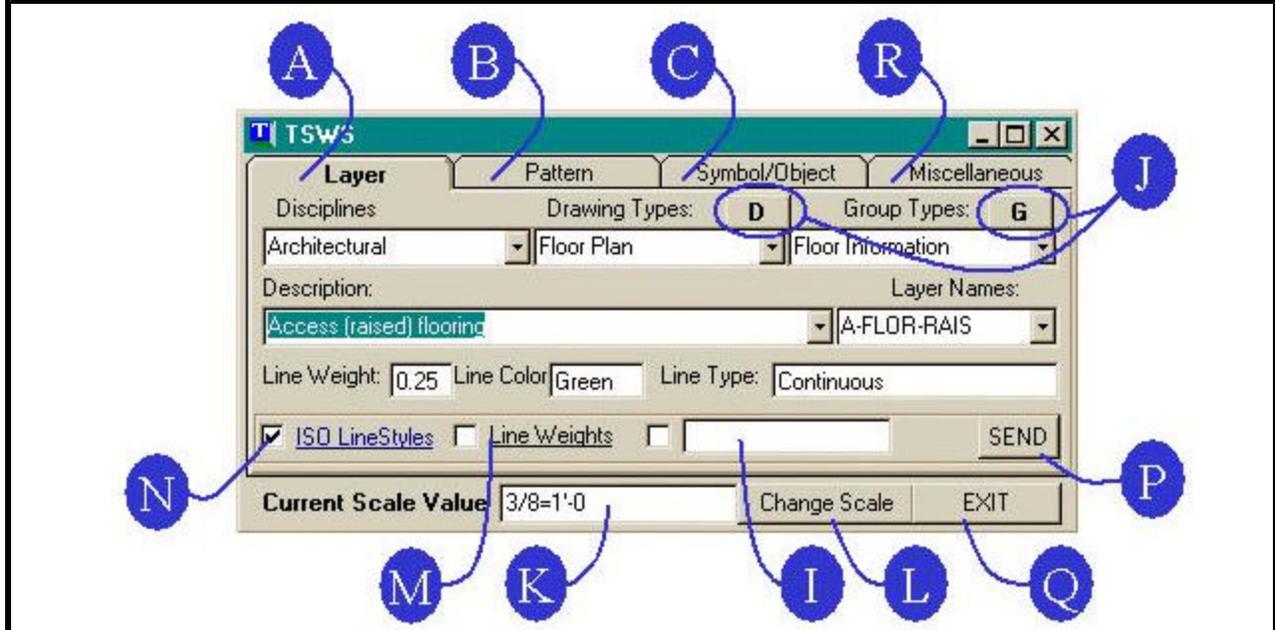


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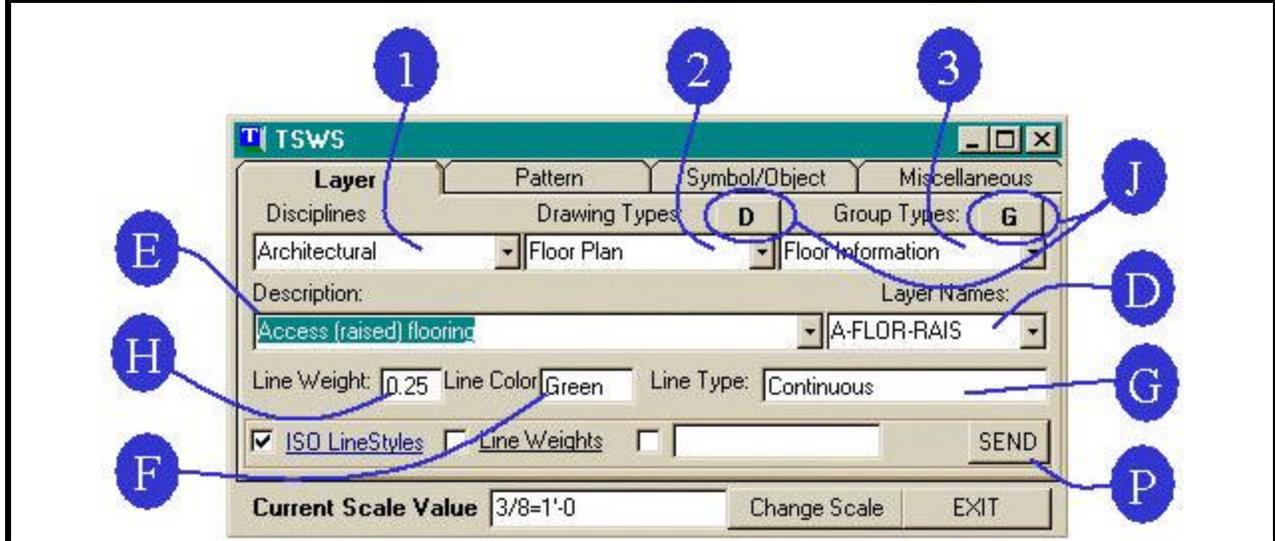
MENU LABEL DESCRIPTIONS			
KEY	MENU LABEL	DESCRIPTION	
A	Disciplines	List of Discipline Type	Selections: (ARCH,CIVIL,MECH,...)
B	Drawing Type	List of Drawing Type	Selections: (Floor Plan, Elevation...)
C	Group Type	List of Group Type	Selections: (walls,doors,floor,...)
R	Miscellaneous	Search, execute SQL to regenerate information from database	
J	AutoMatic Multiple Insertions	These allow multiple Layers to be inserted for an entire Group or Drawing Type	
I	Static Override	For Selecting Specific Drawing Status for Elements: (NIC, Future, Demo...)	
M	LineWeights	Check this box to assign Layer Line Weight Information	
N	ISO Linetypes	Check this box to use AutoCAD: (Acad_iso07w100,...)	
P	SEND	This button sends selected Layer properties to AutoCAD (creates Layer Name, assigns color, linetype (and LineWeight if LineWeight CheckBox is selected)	
I	Static Override	For Selecting Specific Drawing Status for Elements (NIC, Future, Demo...)	
K	Scale Value	This shows the Selected Scale Factor for the Drawing that affects the Size of the Text Inserted and the size of the Symbols inserted (from within the program only)	
L	Change Scale	Re-Executes the Select Scale Dialog Box program to change insertion scale of Symbols, Text	
Q	EXIT	END PROGRAM	

DIAGRAM of MAIN TSWS ACAD DIALOG BOX



MENU LABEL DESCRIPTIONS (continued)			
KEY	MENU LABEL	DESCRIPTION	
1	Disciplines	List of Discipline Type	Selections: (ARCH,CIVIL,MECH,...)
2	Drawing Type	List of Drawing Type	Selections: (Floor Plan, Elevation...)
3	Group Type	List of Group Type	Selections: (walls,doors,floor,...)
A	Layer Name	List of AIA Layer Names set by the Standards	Selections
E	Description	List of Layer Descriptions	Selections
F	Line Color	Shows Line Color set by National CADD Standards	
G	Line Type	Shows Line Type set by National CADD Standards	
H	Line Weight	Shows Line Weight set by National CADD Standards (Currently not assigned to drawing)	
J	AutoMatic Multiple Insertions	These allow multiple Layers to be inserted for an entire Group or Drawing Type	

DIAGRAM of MAIN TSWS ACAD DIALOG BOX - Continued



PROCESS and ORDER of LAYER SELECTION

LAYER SELECTION

When the TSWS_Acad Dialog Box appears, the first set is to actively select the **DISCIPLINE** that will be used from the drop down menu on the Left. **1**

Once the Discipline is selected, then the **DRAWING TYPE** **2** is to be selected from the drop down menu.

After a Drawing Type has been chosen, a selection of **GROUPs** becomes available. When the **GROUP** is selected from the drop down list, list of Layer Names becomes available. Also, if there are Block Symbols related for this Group (such as Windows or Doors) then the Symbol/Object Tab becomes visible. **3**

If there are hatch Patterns associated with this Group (such as Floors) then the Pattern Tab becomes visible. **B**

To Send Line Setting Information into AutoCAD, Select either the **Layer Name** or the **Description** from the Drop Down Lists. **D, E**

A description of the purpose of the Layer is shown , and it's color, Line Weight and Line Type are also shown. **E, F, G, H**

When the Layer Name is selected, Use the **SEND** button on the Right (next to EXIT) to send the information into AutoCAD. **P**

The Layer becomes the current drawing Layer with the color and linetype set from the supplied data.

PATTERN TAB

PATTERN SELECTION

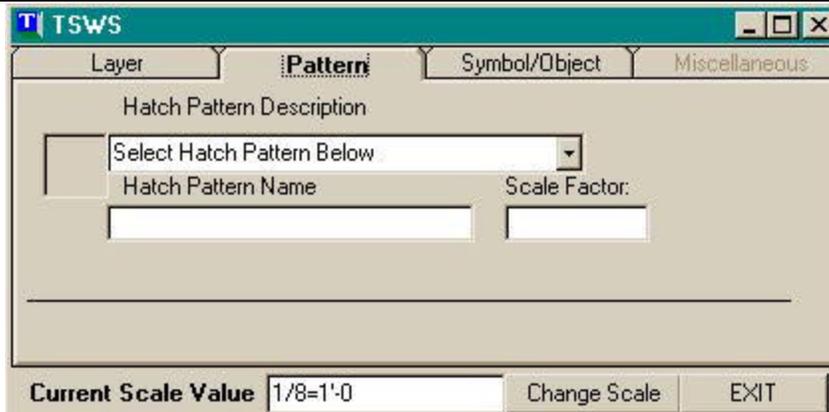
When a **Group** is selected that is associated with a Hatch Pattern, the second Tab **PATTERN** becomes Highlighted. Selecting the Second Tab brings up the Menu shown below. Under the heading Hatch Pattern **Description** label is a drop down list of hatch patterns associated with the selected Group.

When the Hatch pattern is selected, the Pattern name appears under the Hatch Pattern Name label, and the preselected scale is shown under Scale Factor label. The name of the Layer as determined by the Standards is shown under the label **AIA Layer Name**.

Selecting the **Hatch Pattern Description** automatically sets the current layer of your drawing to what is shown under the label **AIA Layer Name**. The correct line type and color are also set. The focus changes from the TSWS_Acad program to the drawing and the Boundary Hatch dialog box is activated. The current hatch pattern in the dialog box is the one selected from the standards and the current scale is set to the drawing scale factor.

At this point you are ready to select objects or pick points or make any changes within the drawing environment

HATCH PATTERN SELECTION DIALOG BOX



OBJECT & SYMBOL SELECTION DIALOG BOX

OBJECT / SYMBOL SELECTION

Selecting a SYMBOL

This will show the Symbol Image in the Picture Box . To SEND the symbol into the drawing, use the SEND button. The program will set the scale factors for inserted Objects according to the drawing scale, and will ask for an Insertion point. At his point, the User is placed in AutoCAD to select the angle of rotation and the Attribute information if required.

Selecting a OBJECT

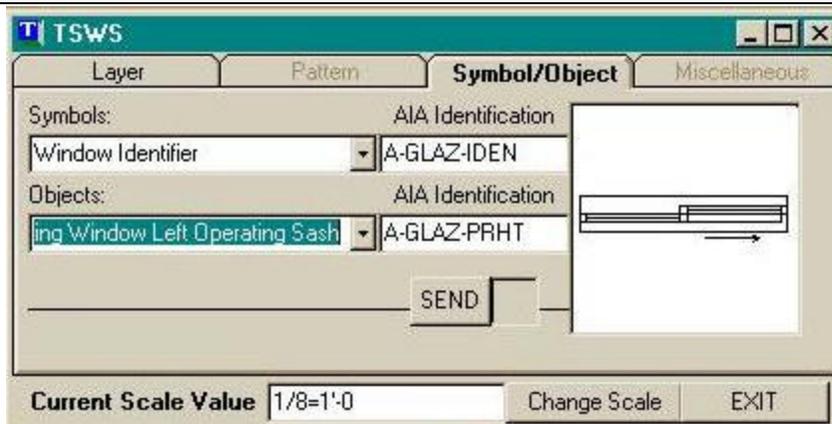
This will allow show the Object Image in the Picture Box . There are two different types of Objects: Those to be inserted at full scale and those to be inserted at a certain scale.

Full Size Objects:

To **SEND** the full scale Object into the drawing, use the SEND button. The program will set the scale factors for inserted Objects to 1, and will ask for an Insertion point. At his point, the User is placed in AutoCAD to select the angle of rotation and the Attribute information if required.

If an Object is selected that is to be scaled, (such as a Door or Window), then the **SELECT OBJECT** Menu (see below) appears with the alternate scale selections listed. Select the specific size Object and then select **SEND** on the Select Object Menu to insert the Object at the proper scale.

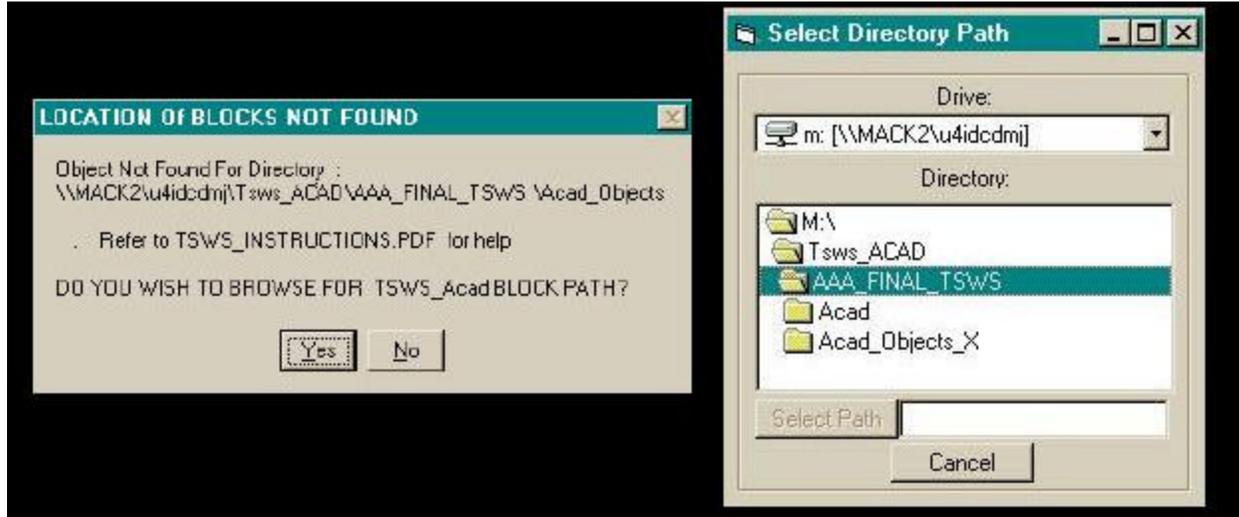
OBJECT & SYMBOL SELECTION DIALOG BOX



CUSTOMIZATION

New Revised section:

In this new version, when the program looks in its directory for the ".../Acad_Objects/" Directory and does not find the directory, it will bring up a Message Box that asks if the User would like to Search for the location of this directory. If the User selects to search for a directory, and a location is selected then the program will automatically add this information to the [TSWS_Acad.ini](#) file.



When an alternate selection is made for the Location of the "tsw.txt" or for the ".../Acad_Objects/" Directory then this information is saved in the [TSWS_Acad.ini](#) file.

This information will be used the next time the User opens up the program, and the User will not have to reselect these locations.

USING THE [Symbol_Scale.txt](#) FILE TO SET SYMBOL OR OBJECT SCALE

The following is an excerpt from the [Symbol_Scale.txt](#) file in the application directory where [TSWS_Acad.exe](#) is located:

```
'Symbol_Scale File
'Form:
'Expr1'DISCIPLINE_ID'DRAWTYPE_ID'GROUP_ID'AIA_ID'DEF_ID 'SYMBOL_ID
'Symbol Name'ElementType 'ToolFrame ARCH 16 38 A-DETL-CEIL 244 552
FURCHN Symbol 'ToolFrame ARCH 16 38 A-DETL-CEIL 244 553
FURCHH Symbol 'SYMBOL_ID`OBJECT_ID
' 0 1 2 3 4 5 6 7
'Symbol_ID'Symbol Name`M_X`M_Y`M_Z`I_X`I_Y`I_Z
552`FURCHN`1`1`1`5`5`1
553`FURCHH`1`1`1`2.56`2.56`1
```

Alternate scale for Symbols: The name of an object from the Symbol file and referenced in the TSW.txt file may have an alternate scale substituted.

Note Any information preceded by a " " " is ignored.

CUSTOMIZATION

'Symbol_Scale File

'Form:

'Expr1'DISCIPLINE_ID'DRAWTYPE_ID'GROUP_ID'AIA_ID'DEF_ID 'SYMBOL_ID

'Symbol Name'ElementType 'ToolFrame ARCH 16 38 A-DETL-CEIL 244 552

FURCHN Symbol 'ToolFrame ARCH 16 38 A-DETL-CEIL 244 553

FURCHH Symbol 'SYMBOL_ID`OBJECT_ID

' 0 1 2 3 4 5 6 7

'Symbol_ID'Symbol Name`M_X`M_Y`M_Z`I_X`I_Y`I_Z

552`FURCHN`1`1`1`5`5`1

553`FURCHH`1`1`1`2.56`2.56`1

Example : SYMBOL Scale settings								
Expr1	DISCIPLINE_ID	DRAWTYPE_ID	GROUP_ID	AIA_ID	DEF_ID	SYMBOL_ID	Symbol Name	ElementType
ToolFrame	ARCH	16	38	A-DETL-CEIL	244	552	FURCHN	Symbol
ToolFrame	ARCH	16	38	A-DETL-CEIL	244	553	FURCHH	Symbol
SYMBOL_ID	OBJECT_ID							
	0	1	2	3	4	5	6	7
Symbol_ID	Symbol Name	M_X	M_Y	M_Z	I_X	I_Y	I_Z	
552	FURCHN	1	1	1	5	5	1	
553	FURCHH	1	1	1	2.56	2.56	1	
CUSTOMIZATION ... Continued								
NOTE 1:	Symbol Name	Metric scale factors			Inch Pound Scale Factors			
		X value	Y value	Z value	X value	Y value	Z value	
NOTE 2:	The Symbol Number is found in the TSW.Txt file to the left of the Symbol Name: (from the TSW.txt file)							

MISCELLANEOUS TAB FEATURES

MISCELLANEOUS TAB FEATURES		
KEY	MENU LABEL	DESCRIPTION
A	Future	Displays current version of TSWS_Acad program and Database used for comparison
B	tsw.txt File	Allows the User to select the CADD Standards Access Database and regenerate the tsw.txt file that this program reads. Changes made to the database are reflected in the TSWS_Acad program. Only necessary if layer, Discipline or Drawing Type changes are made to the database that need to be included in the program.
1	Search String	Enter Search Criteria box allows user to enter words for search criteria User types in Search criteria in this location <i>ie: wall</i> program will search entire list of Drawing Names and Descriptions to find items matching the criteria.
2	LAYER	Button searches for all Layer Information matching entered criteria <i>includes Layer Name as well as Description</i>
3	OBJECTS	Button searches for all Objects and Symbol Information matching entered criteria
4	HATCH PATTERNS	Button searches for all Hatch Pattern Information matching entered criteria <i>includes Layer Name as well as Description</i>
Drop Down Boxes for Filtered Search		
5	DISCIPLINE	Allows User to filter searches based upon selected Discipline
6	DRAWING TYPE	Allows User to filter searches based upon selected Discipline and Drawing Type
7	Layer Names & Descriptions	Result of the search: List of layers and Descriptions are presented that meet the search criteria

