

Table of Contents

CHAPTER 5	LANE INFORMATION INPUT	1
	Workflow 1: Through Lane Widths (PRM, CPM, IRM).....	1
	Workflow 2: Passing Lane Width and Location (PRM, CPM, TAM, IRM)	2
	Workflow 3: Turn Lane Width and Location (PRM, DCM, IRM).....	3
	Workflow 4: Two Way Left Turn Lanes (PRM, CPM, IRM).....	4
	Workflow 5: Climbing Lane Width and Location (PRM, CPM, TAM, IRM).....	5
	Workflow 6: Offset (PRM, IRM)	6
	Workflow 7: Curve Widening (PRM).....	7
	Workflow 8: Excel Input.....	9

Chapter 5 Lane Information Input

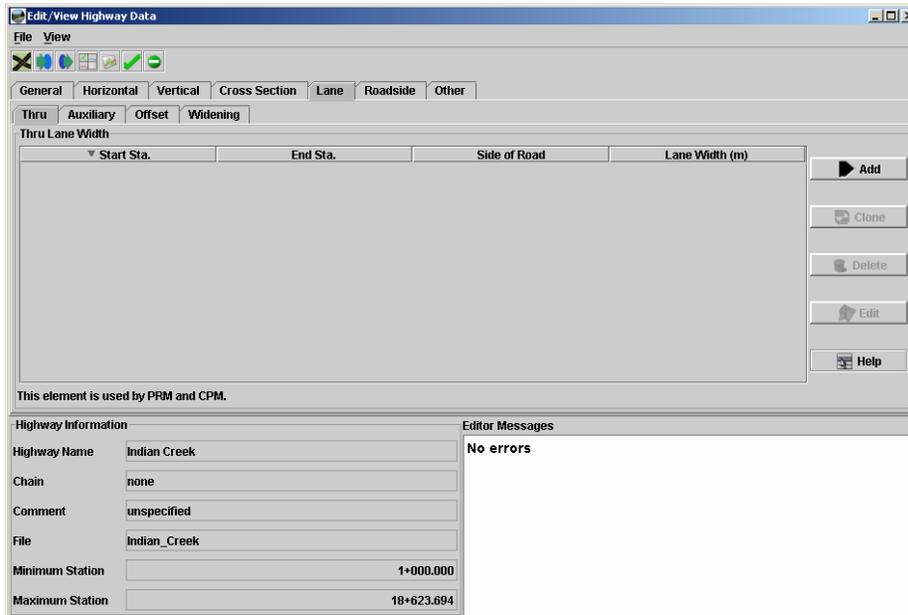
From the Lane Information tab in the Edit/View Highway Data dialog box the following information may be input:

- Through Lane widths.
- Passing Lane widths and locations
- Turn Lane widths and locations
- Two-way Left Turn widths and locations
- Climbing Lane widths and locations
- Highway offset widths and locations
- Curve widening widths and locations

The following workflows will guide the user on how to input each set of data using IHSDM. The title of the workflow will also indicate the modules that use that data in parenthesis. Therefore, if the user does not want a certain module, they will not waste time importing data that is not needed.

Workflow 1: Through Lane Widths (PRM, CPM, IRM)

1. Pick the Edit/View Highway Data button  while in the Main IHSDM Dialog box. This dialog box is shown in step 16 of [workflow 2 in chapter 2](#).
2. Click on the Lane>Thru tabs and the following dialog box will appear:



This element is used by PRM and CPM.

Start Sta.	End Sta.	Side of Road	Lane Width (m)

Buttons: Add, Clone, Delete, Edit, Help

Highway Information

Highway Name	Indian Creek
Chain	none
Comment	unspecified
File	Indian_Creek
Minimum Station	1+000.000
Maximum Station	18+623.694

Editor Messages

No errors

Pick the Add button at the right of the dialog box to get the following dialog box:

Fill in the proper information and pick Save. Notice that IHSDM filled the fields with the beginning and ending stations. If the Through Lane Widths change within the project, additional lines can be added by simply picking the Add button again.

Workflow 2: Passing Lane Width and Location (PRM, CPM, TAM, IRM)

1. Click on the Lane>Auxillary>Passing Tabs of the Edit/View Highway Data dialog box to get the following dialog box:

Start Sta.	End Sta.	Side of Road	Lane Width (m)	Begin Full Width	End Full Width	Passing Prohibite...

Highway Information		Editor Messages	
Highway Name	Indian Creek	No errors	
Chain	none		
Comment	unspecified		
File	Indian_Creek		
Minimum Station	1+000.000		
Maximum Station	18+623.694		

2. Pick the Add button to get the following dialog box:

Fill in the proper information and pick Save. IHSDM uses linear as opposed to curvilinear lane transitions. Start Sta. is the station that the widening for the passing lane begins and Begin full width is the station at the end of the transition. The Check box is so IHSDM knows how the striping will be done through the passing lane section. If there are more than one Passing Lanes within the project, additional lines can be added by simply picking the Add button again.

Workflow 3: Turn Lane Width and Location (PRM, DCM, IRM)

1. Click on the Lane>Auxiliary>Turn Tabs of the Edit/View Highway Data dialog box to get the following dialog box:

2. Pick the Add button to get the following dialog box:

Fill in the proper information and pick Save. Start Sta. is the station that the widening for the turn lane begins and Begin full width is the station at the end of the transition. If there are multiple Turn Lanes within the project, additional lines can be added by simply picking the Add button again.

Workflow 4: Two Way Left Turn Lanes (PRM, CPM, IRM)

1. Click on the Lane>Auxillary>Two-way Left Turn Tabs of the Edit/View Highway Data dialog box to get the following dialog box:

2. Pick the Add button to get the following dialog box:

Fill in the proper information and pick Save. Start Sta. is the station that the widening for the turn lane begins and Begin full width is the station at the end of the transition. If there are additional Two-Way Left Turn Lanes within the project, additional lines can be added by simply picking the Add button again.

Workflow 5: Climbing Lane Width and Location (PRM, CPM, TAM, IRM)

1. Click on the Lane>Auxillary>Climb Tabs of the Edit/View Highway Data dialog box to get the following dialog box:

2. Pick the Add button to get the following dialog box:

Fill in the proper information and pick Save. Start Sta. is the station that the widening for the climbing lane begins and Begin full width is the station at the end of the transition. The Check box is so IHSDM knows how the striping will be done through the climbing lane section. If there are multiple climbing lanes within the project, additional lines can be added by simply picking the Add button again.

Workflow 6: Offset (PRM, IRM)

1. Click on the Lane>Offset tab of the Edit/View Highway Data dialog box to get the following dialog box:

Start Sta.	End Sta.	Side of Road	Full Offset (m)	Begin Full Width	End Full Width

This element is used by IRM.

Highway Information		Editor Messages
Highway Name	Indian Creek	No errors
Chain	none	
Comment	unspecified	
File	Indian_Creek	
Minimum Station	1+000.000	
Maximum Station	18+623.694	

2. Pick the Add button to get the following dialog box:

The dialog box is titled "Add/Edit Lane Offset". It contains the following fields and controls:

- Lane Offset** (Section Header)
- Start Sta.** (Text input field)
- End Sta.** (Text input field)
- Side of Road** (Dropdown menu, currently set to "right")
- Full Offset (m)** (Text input field)
- Begin Full Width** (Text input field)
- End Full Width** (Text input field)
- Help Items** (Button)
- Save** (Button with a green checkmark icon)
- Cancel** (Button with a red X icon)

Fill in the proper information and pick Save. Start Sta. is the station that the offset from centerline begins and Begin full width is the station at the end of the transition. If the Offset changes within the project, additional lines can be added by simply picking the Add button again.

Workflow 7: Curve Widening (PRM)

1. Click on the Lane>Widening Tabs of the Edit/View Highway Data dialog box to get the following dialog box:

The dialog box is titled "Edit/View Highway Data" and has several tabs: General, Horizontal, Vertical, Cross Section, Lane, Roadside, and Other. The "Lane" tab is selected, and the "Widening" sub-tab is active. The "Curve Widening" section contains a table with the following columns: Start Sta., End Sta., Side of Road, Widening (m), Begin Full Width, and End Full Width. Below the table are buttons for Add, Clone, Delete, Edit, and Help. At the bottom, there is a "Highway Information" section with fields for Highway Name (Indian Creek), Chain (none), Comment (unspecified), File (Indian_Creek), Minimum Station (1+000.000), and Maximum Station (18+623.694). An "Editor Messages" section shows "No errors".

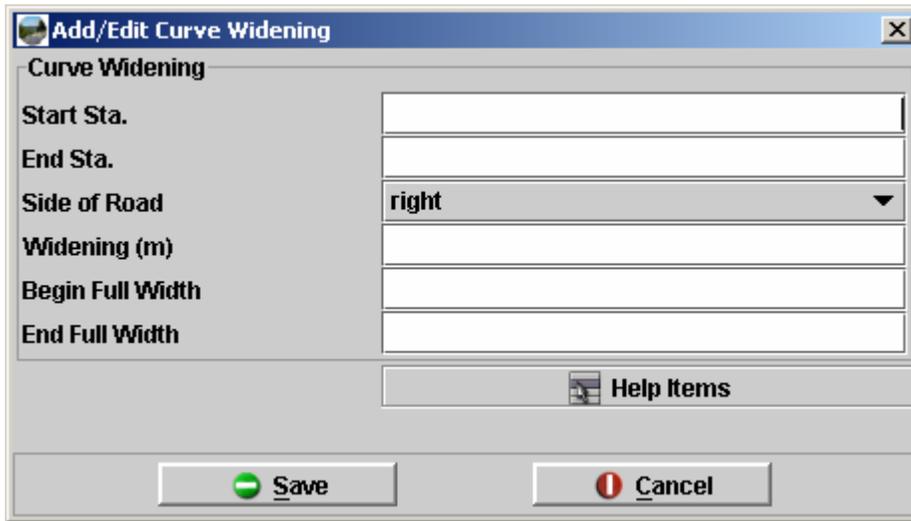
Start Sta.	End Sta.	Side of Road	Widening (m)	Begin Full Width	End Full Width

Highway Information

Highway Name	Indian Creek
Chain	none
Comment	unspecified
File	Indian_Creek
Minimum Station	1+000.000
Maximum Station	18+623.694

Editor Messages
No errors

2. Pick the Add button to get the following dialog box:



3. Fill in the proper information and pick Save. Start Sta. is the station that the Curve widening begins and Begin full width is the station is at the end of the transition. If there are multiple curve widenings within the project, additional lines can be added by simply picking the Add button again.



This would be a situation where the user may want to use an Excel file if there are a large number of curves with curve widening.

Using an Excel file

The Excel file with the correct format for importing Lane Information into IHSDM is DEA.Lane.xls. This file can be found in:

N:\Standards\IHSDM\

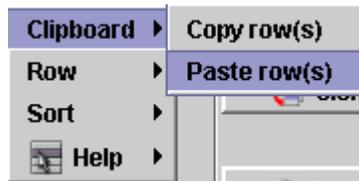
or on the CFLHD web site at the following link:

<http://www.cflhd.gov/ihsdm.cfm>

When you open this file, there is a read me worksheet along with 7 worksheets that will be used to input all the Lane information. Each worksheet will describe what each variable is and what it is used for. The following workflow will describe the process for entering this information into IHSDM.

Workflow 8: Excel Input

1. Enter the correct data in the Excel spreadsheet.
2. Highlight the entered data and go to *Edit>Copy*.
3. Click on the General Tab of the *Edit/View Highway Data* dialog box.
4. Pick the corresponding tab for the data to be inserted.
5. Pick the Add button.
6. Put dummy information in the data fields. Pick the Save button. This creates a line in the *Edit/View Highway Data* dialog box. The user will delete this line after the correct information is imported.
7. With the mouse over the line just put in, right mouse click to get the following dialog box:



8. Choose *Clipboard>Paste row(s)*. The information will be loaded into IHSDM.
9. Delete the line with the incorrect data.



Notice that this procedure is most useful when there are more than a couple of lines of data.