The **ODOT_XSSheetLabels.mvba** application is used to fill in the cross section sheet title block data for all the sheets in the current model.

The application can be accessed from the MicroStation pull-down menu by selecting **ODOT > XS Utilities > XS Sheet Label**, or by keying in the following command:

```
vba load ODOT_XSSheetLabels.mvba; vba run runXSSheetLabels
```

The dialog show below is opened.

![XS Sheet Labels v11.07.15](image)

Each option is detailed on the following pages.

The cross sections were processed in GEOPAK using the “5 Scale, Vertical, Extended Width” option from the ODOT.xssl sheet library. The cell CROSSV is used for vertically oriented cross sections.
The information for each sheet in the current model is completed as shown in the example below:

**Clear Overlapping Offset Labels**

When cross section sheets are clipped with GEOPAK using one of the “Extended Width” options defined in ODOT.xssl, the offset labels extend into the seeding and earthwork quantity total areas as shown below. If **Clear Overlapping Offset Labels** is toggled on, any text found within or overlapping the Seeding and Earthwork total areas will be deleted. This includes totals previously placed using the **Add Seeding Column Totals** and the **Add Earthwork Column Totals** options.
Additional Processing Notes:

- The application scans the current design file for the following ODOT standard cross section sheet cells:
  - CROSS
  - CROSS_SPLIT
  - CROSSV

  If a matching cell is found, the application next scans the elements that make up the cell for text elements representing the labels. These text elements have been defined in the ODOT cell using specific symbology. If no text elements are found within the cell corresponding to the colors listed in the table below, no text will be placed for that item.

<table>
<thead>
<tr>
<th>Title Block Item</th>
<th>Text Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>County-Route-Section</td>
<td>242</td>
</tr>
<tr>
<td>Route Name</td>
<td>243</td>
</tr>
<tr>
<td>Station Range</td>
<td>244</td>
</tr>
<tr>
<td>Calculated By</td>
<td>245</td>
</tr>
<tr>
<td>Checked By</td>
<td>246</td>
</tr>
</tbody>
</table>

- If the cross section cell has been “dropped” and is no longer a cell, the application will search for a MicroStation shape element representing the sheet cut line. The cut line must be a shape element on the level SH_Cut_Line in order for the application to recognize it as a sheet border element. If a shape is found on the SH_Cut_Line level, the application will search for text elements inside the border matching the colors listed in the table above.

- When “dropped” cells are encountered, the application assumes that the current Model Annotation Scale is set to match the scale of the sheets. This is used to set offset values to establish the columns for adding seeding and earthwork quantity columns.

- It is assumed that there is only one element in a cell, or inside the cut line shape, that matches the colors listed in the table above. The first text element found matching the color will be used.

- It is assumed that the text elements contain an Enter Data field. The first Enter Data field found in the text string is used for the sheet data.

- The **Route Name** is appended to the text “CROSS SECTIONS” as shown in the example on the preceding page.

- The **Station to Station Limits** are calculated based on the following assumptions:
  - Each cross section is attached as a reference file.
  - The area for each reference attachment is contained within the area of the sheet cut line.
  - Each cross section has an associated GEOPAK Cross Section cell.
The application finds all the reference attachments within the limits of the cross section sheet cut line. The first attachment is assumed to be the lowest cross section station contained on the sheet. The last attachment found is assumed to be the highest cross section station on the sheet. The application reads the value of the station from the GEOPAK Cross Section cell for the first and last reference attachment found within the sheet cut line boundary to determine the station values that are annotated for each sheet.

If the Earthwork and Seeding totals need to be updated, the application can be processed with only these two options toggled on. The application will automatically delete any previously placed earthwork and seeding totals in the file.

The **Turn Off Unnecessary XS Levels** option turns off the Global Display of the following levels in all reference attachments:

- GK_Cells
- XS_P_Boundary
- XS_P_Earthwork_Shapes
- XS_P_Finished_Grade_Seeded
- XS_P_Pavt_Layers
- XS_P_Pavt_Surface
- XS_P_Shoulder_Layers
- XS_P_Shoulder_Surface
- XS_P_Text_Info
- XS_P_Text_MarkedPoint

**Contacts**

If you have any questions, suggestions, or problems please contact the ODOT Office of CADD and Mapping Services CADD Support team or use the following form on the ODOT web site at:

[http://www.dot.state.oh.us/Divisions/Engineering/CADDMapping/CADD/Pages/suggestions.aspx](http://www.dot.state.oh.us/Divisions/Engineering/CADDMapping/CADD/Pages/suggestions.aspx)