

Interactive Highway Safety Design Model (IHSDM)

Policy Review Module (PRM) User's Manual

Developed for
**Federal Highway Administration (FHWA)
Turner-Fairbank Highway Research Center (TFHRC)
6300 Georgetown Pike
McLean, VA 22101**

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1. Introduction

The Policy Review Module checks highway segment design elements against relevant highway geometric design policies. Project designers and reviewers can use it to compare existing highway geometric designs with current design guidelines, or to perform quality-assurance checks throughout detailed design and design review stages.

The Policy Review Module (PRM) User's Manual is a reference for the mechanics of using the PRM software graphical user interface.

2. Background

For background information on the Policy Review Module, refer to the Policy Review Module (PRM) Engineer's Manual .

3. Policy Review Module Graphical User Interface

The Policy Review Module may be accessed through the Master Control Module primary window's PRM tab. Details of the Master Control Module's graphical user interface are described in the IHSDM User's Manual. The Policy Review Module may also be started independently of the Master Control Module. The PRM.EXE executable in the IHSDM system home directory may be invoked to directly start the Policy Review Module dialog. There is also a command script named RUNPRM.BAT in the bat subdirectory of the IHSDM system home directory. Either of these commands may be started by double clicking them in Windows Explorer, by creating a Desktop shortcut, or by entering the full file name in the Windows run dialog on the Start Menu.

3.1 Policy Review Module Dialog

This is the initial window for the PRM when called directly from the command line (i.e., the stand-alone version). The **Policy Review Module** frame includes the following menu items: File, Edit, View and Help. The **Policy Review Module** frame includes the following toolbar buttons: Change Project, Change Analysis, Edit Highway Data, Edit User Properties, View Current Analysis Report, View Analysis Report Index and Search Master Index. The **Policy Review Module** frame includes the following tabs: Project/Analysis, Attributes and Evaluation. The **Policy Review Module** frame includes the following statusbar fields: Progress Bar and Progress Bar Text.

3.1.1 Menu Items

The Policy Review Module Frame includes the following menu items:

- **File** - This menu includes menu items to change the current project and/or analysis, import data and exit PRM. The **File** menu includes the following menu items: Change Current Project, Change Current Analysis, Import Highway Data and Exit PRM.
 - **Change Current Project** - This menu item brings up a dialog to change the current project. From this dialog, you can edit project attributes. For additional information, see Project, Analysis and Master Highway Operations in the Running IHSDM Software Manual.
 - **Change Current Analysis** - This menu item brings up a dialog to change the current analysis. From this dialog, you can edit analysis attributes and change the master highway associated with the analysis. For additional information, see Project, Analysis and Master Highway Operations in the Running IHSDM Software Manual.

- **Import Highway Data** - This menu item invokes the Data Import Utility to import a file such as a highway file. The **Import Highway Data** menu includes the following menu items: IHSDM Highway Data and TWOPAS Input Data.
 - o **IHSDM Highway Data** - This menu item imports either IHSDM CSV or LandXML highway data files.
 - o **TWOPAS Input Data** - This menu item imports TWOPAS input data.
- **Exit PRM** - This button saves the data in the window and then exits the Policy Review Module.
- **Edit** - This menu includes menu items to edit highway datasets, edit user properties and to complete an IHSDM program report. The **Edit** menu includes the following menu items: Edit/View Highway Data, Edit Intersections, Manage Highway Datasets, Edit User Properties, Edit Defaults and Problem Report/Change Request.
 - **Edit/View Highway Data** - This menu includes menu items to edit either the current or selected highway dataset. For additional information, see Editing Highway Elements. The **Edit/View Highway Data** menu includes the following menu items: Select Master Highway, Select from Available Highways, Create Highway Data and Clone Highway Data.
 - o **Select Master Highway** - This menu item brings up a new window to edit the master highway associated with the current analysis.
 - o **Select from Available Highways** - This menu item brings up a dialog to select a highway dataset by name and then launches the edit/view highway data editor with the selected highway.
 - o **Create Highway Data** - This menu item brings up a dialog to create a new highway dataset name and then launches the edit/view highway data editor.
 - o **Clone Highway Data** - This menu item brings up a dialog to select a highway dataset by name and creates a new name for the cloned highway dataset.
 - **Edit Intersections** - This menu item invokes the intersection data editor dialog to allow intersection data associated with this highway dataset to be edited. For additional information, see IHSDM Intersection Model.
 - **Manage Highway Datasets** - This menu item launches the highway dataset list manager. The current analysis must be closed to perform this operation. Highway dataset list management operations include renaming and deleting highway datasets.
 - **Edit User Properties** - This menu item brings up a dialog to edit the IHSDM user properties. For additional information, see User Properties in the User Properties and Defaults Manual.
 - **Edit Defaults** - This menu item brings up a dialog to edit the default values to the IHSDM modules.
 - **Problem Report/Change Request** - This menu contains menu items to create a new PR/CR or edit an existing PR/CR. The **Problem Report/Change Request** menu includes the following menu items: Create New PR/CR, Edit Existing PR/CR and List Existing PR/CR .

- **Create New PR/CR** - This menu item brings up a dialog to complete a new IHSDM problem report/change request. For additional information, see Creating an IHSDM Problem Report/Change Request.
- **Edit Existing PR/CR** - This menu item brings up a file chooser dialog to select a file. If selected, the file will be read as an IHSDM problem report/change request and displayed. For additional information, see Creating an IHSDM Problem Report/Change Request.
- **List Existing PR/CR** - This menu item brings up browser with a listing of the current PR/CR issues at the development website. For additional information, see Creating an IHSDM Problem Report/Change Request.
- **View** - This menu includes menu items to display and clear the analysis log and analysis report. The **View** menu includes the following menu items: View Analysis Log, Start a New Analysis Report, View Current Analysis Report, View PRM Analysis Summary, View Analysis Report Index, Clear Analysis Log and Clear Analysis Report.
 - **View Analysis Log** - This menu item launches the user's specified text editor with the current analysis log.
 - **Start a New Analysis Report** - This menu item causes a new analysis report file to be started.
 - **View Current Analysis Report** - This menu item launches the user's specified analysis report display tool with the current analysis report.
 - **View PRM Analysis Summary** - This menu item launches the user's specified HTML browser to display the current PRM analysis summary.
 - **View Analysis Report Index** - This menu item launches the user's specified HTML browser to display an index of analysis reports available within the current analysis.
 - **Clear Analysis Log** - This menu item clears (erases) the current analysis log.
 - **Clear Analysis Report** - This menu item clears (erases) the current analysis report.
- **Help** - This menu includes menu items to display various help documents and the module's about box. The **Help** menu includes the following menu items: IHSDM User's Manual, PRM User's Manual, User Documentation Summary, Master Index, Search Master Index and About PRM.
 - **IHSDM User's Manual** - This menu item launches the HTML browser to display the IHSDM User's Manual.
 - **PRM User's Manual** - This menu item launches the HTML browser to display the PRM User's Manual.
 - **User Documentation Summary** - This menu item launches the HTML browser to display the **User Documentation Summary**. The summary contain links to all the user documentation.
 - **Master Index** - This menu item launches the HTML browser to display the **IHSDM Documentation Master Index**.
 - **Search Master Index** - This menu item launches a dialog to allow a keyword search of the **IHSDM Documentation Master Index**.

- **About PRM** - This menu item displays the PRM's 'about box'.

3.1.2 Toolbar

The Policy Review Module Frame includes the toolbar buttons listed below.

Change Project - This button item brings up a dialog to change the current project. From this dialog, you can edit project attributes. For additional information, see Project, Analysis and Master Highway Operations in the Running IHSDM Software Manual.

Change Analysis - This button brings up a dialog to change the current analysis. From this dialog, you can edit analysis attributes and change the master highway associated with the analysis. For additional information, see Project, Analysis and Master Highway Operations in the Running IHSDM Software Manual.

Edit Highway Data - This toolbar button starts the Edit/View Highway Data editor for the master highway. For additional information, see Editing Highway Elements.

Edit User Properties - This toolbar button brings up a dialog to edit the IHSDM user properties. For additional information, see User Properties in the User Properties and Defaults Manual.

View Current Analysis Report - This toolbar button item launches the user's specified analysis report display tool with the current analysis report.

View Analysis Report Index - This button launches the user's specified HTML browser to display an index of analysis reports available within the current analysis.

- This toolbar button invokes the HTML browser to display the PRM User's Manual.

Search Master Index - This toolbar button launches a dialog that support searching the master documentation index.

- This toolbar button saves all PRM analysis data and exits the PRM program.

3.1.3 Tabs

The Policy Review Module Frame includes the tabs described in the following sections.

3.1.3.1 Project/Analysis Tab

This tab contains the project/analysis identification, the current highway identification, and processing bounds.

Figure 1 Project/Analysis Tab

The **Project/Analysis** tab includes the following widgets: Project Name, Project Comment, Project Unit System, Analysis Name, Analysis Comment, Analysis E Max, Default Normal Cross Slope, Analysis Year, Highway Name, Chain, Comment, Edit/View Highway Data, Start Station, End Station and Design Vehicle.

- **Project Name** - Widget type: text field (read-only). The value of this item is the name of the project.
- **Project Comment** - Widget type: text field (read-only). This is an optional comment about the project.
- **Project Unit System** - Widget type: combo box (read-only). This item specifies the unit system used for the entry and display of all values associated with the project. This unit system is used to control all outputs as well as the unit system assumed for imported datasets if no unit system is explicitly specified in the imported file. The enumeration values are:
 - **user default** (user default unit system),
 - **Metric** (Metric unit system) and
 - **English** (English (Imperial) unit system).
- **Analysis Name** - Widget type: text field (read-only). This is the name of the analysis. The name of the analysis is unique within a project. If the user does not specify a name, the system will create one.
- **Analysis Comment** - Widget type: text field (read-only). This is an optional comment about the analysis.
- **Analysis E Max** - Widget type: combo box (read-only). Unit of measure: percent. The value of this item is the maximum superelevation, as a percentage, for this analysis. The enumeration values are: **4, 6, 8, 10** and **12**. The unit of measure for this item is percent.
- **Default Normal Cross Slope** - Widget type: text field (read-only). Unit of measure: percent. The value of this item is the default normal cross slope, as a percentage, for this analysis. Once a highway dataset is imported, normal cross slope elements can be defined to

vary the value along the alignment. The unit of measure for this item is percent.

- **Analysis Year** - Widget type: text field (read-only). Unit of measure: YEAR. The value of this item is the year of the analysis. It is used to compute the average daily traffic volume (ADT).
- **Highway Name** - Widget type: text field (read-only). The value of this item is the name of the master highway associated with the analysis.
- **Chain** - Widget type: text field (read-only). The value of this item is an optional chain name for the alignment associated with the highway dataset.
- **Comment** - Widget type: text field (read-only). The value of this item is an optional comment for the highway dataset.
- **Edit/View Highway Data** - Widget type: button. This button starts the edit/view highway data editor for the master highway. For additional information, see Editing Highway Elements.
- **Start Station** - Widget type: text field. Unit of measure: STATION. The value of this item is the effective starting station of this highway dataset for purposes of this analysis.
- **End Station** - Widget type: text field. Unit of measure: STATION. The value of this item is the effective end station of this highway dataset for purposes of this analysis.
- **Design Vehicle** - Widget type: combo box. This combo box determines the project's design vehicle. Elements are designed to accommodate the largest design vehicle likely to use a highway relatively frequently. Vehicles with special characteristics may also control design. The enumeration values are: **SU - Single Unit Truck, Bus - Single Unit Bus, A-Bus - Articulated Bus, WB-12(WB-40) - Intermediate semitrailer, WB-15(WB-50) - Large semitrailer, WB-18(WB-60) - Double Bottom semitrailer - full trailer, WB-19(WB-62) - Interstate semitrailer with 14.6m(48ft) trailer, WB-20(WB-67) - Interstate semitrailer with 16.2m(56ft) trailer, WB-29(WB-96) - Triple semitrailer, WB-35(WB-114) - Turnpike double semitrailer, MH - Motor Home, P/B - Car and Boat Trailer, MH/B - Motor Home and Boat Trailer, P - Passenger Car and P/T - Car and Camper Trailer.**

3.1.3.2 Attributes Tab

The Attributes tab contains project and vehicle attribute information.

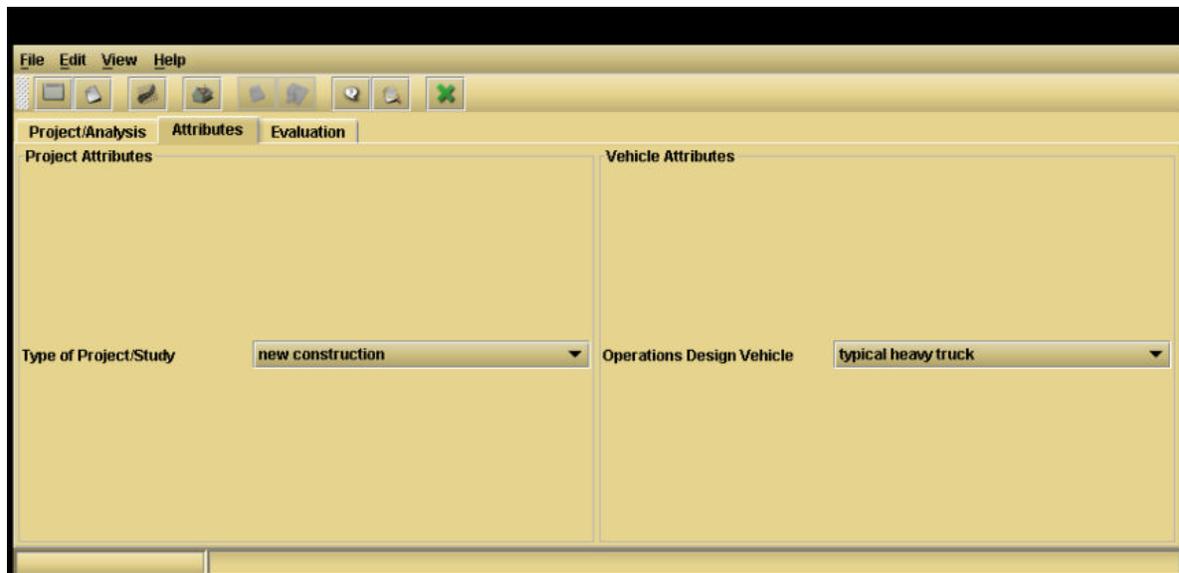


Figure 2 Attributes Tab

The **Attributes** tab includes the following widgets: Type of Project/Study and Operations Design Vehicle.

- **Type of Project/Study** - Widget type: combo box. The value of this item specifies the type of project or study. Policy guidance for certain design elements may vary depending on whether the project is new construction (i.e., a new alignment) or reconstruction (of an existing alignment). The value of this item is not needed for some policies, e.g. the AASHTO 2001 policies. The traveled way width, vertical curve and stopping sight distance policy check will use this value if required by the specified policy. The enumeration values are: **new construction** and **reconstruction**.
- **Operations Design Vehicle** - Widget type: combo box. This combo box determines the design vehicles for operations. The enumeration values are: **typical heavy truck** and **recreational vehicle**.

3.1.3.3 Evaluation Tab

The **Evaluation** tab includes the following sub-tabs: Policy, Cross Section, Horizontal Alignment, Vertical Alignment and Sight Distance. The Policy Review Module Frame includes the tabs described in the following sections.

3.1.3.3.1 Policy Tab

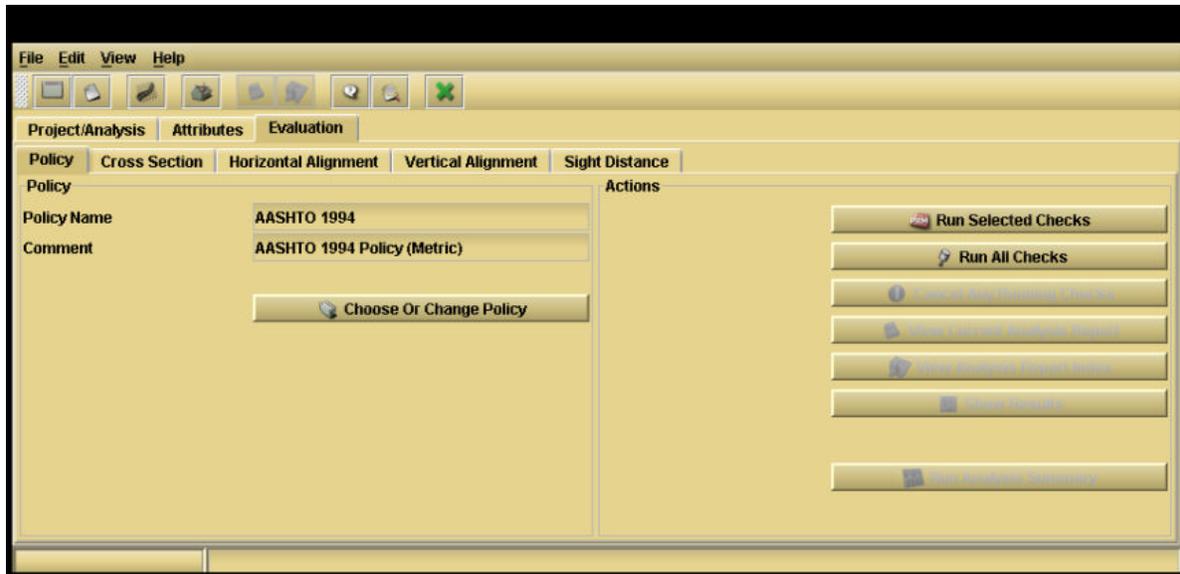


Figure 3 Evaluation/Policy Tab

The **Policy** tab includes the following widgets: Policy Name, Comment, Choose Or Change Policy, Run Selected Checks, Run All Checks, Cancel Any Running Checks, View Current Analysis Report, View Analysis Report Index, Show Results and Run Analysis Summary.

- **Policy Name** - Widget type: text field (read-only). The value of this item is the name of the policy. The policy name is unique within the system.
- **Comment** - Widget type: text field (read-only). The value of this item is an optional descriptive comment about the policy.
- **Choose Or Change Policy** - Widget type: button. This button displays a dialog that allows the user to select or modify the current policy.
- **Run Selected Checks** - Widget type: button. This button runs all selected PRM from all categories of policy checks for the current analysis/highway.
- **Run All Checks** - Widget type: button. This button runs all policy checks for the current analysis/highway.
- **Cancel Any Running Checks** - Widget type: button. This button cancels any running policy checks for the current analysis/highway.
- **View Current Analysis Report** - Widget type: button. This button launches the user's preferred report viewer to display the current analysis report.
- **View Analysis Report Index** - Widget type: button. This button item launches the user's specified HTML browser to display an index of analysis reports available for the current analysis.
- **Show Results** - Widget type: button. This button displays a dialog that lists all policy exceptions found during the current session.
- **Run Analysis Summary** - Widget type: button. This button launches the user's preferred HTML browser to display the current analysis report summary.

3.1.3.3.2 Cross Section Tab

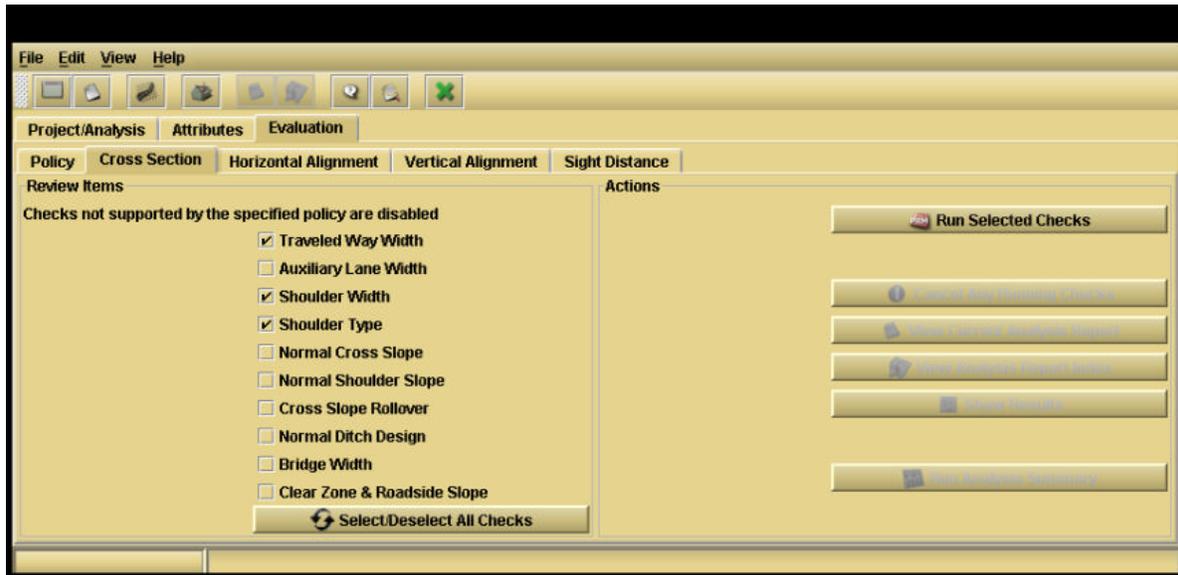


Figure 4 Evaluation/Cross Section Tab

The **Cross Section** tab includes the following widgets: Traveled Way Width, Auxiliary Lane Width, Shoulder Width, Shoulder Type, Normal Cross Slope, Normal Shoulder Slope, Cross Slope Rollover, Normal Ditch Design, Bridge Width, Clear Zone & Roadside Slope, Select/Deselect All Checks, Run Selected Checks, Cancel Any Running Checks, View Current Analysis Report, View Analysis Report Index, Show Results and Run Analysis Summary.

- **Traveled Way Width** - Widget type: check box. This check box selects/deselects the traveled way width policy check. Traveled way width is the portion of the highway for the movement of vehicles, exclusive of shoulders. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Through Traveled Way Width in the Policy Review Module (PRM) Engineer's Manual.
- **Auxiliary Lane Width** - Widget type: check box. This check box selects/deselects the auxiliary lane policy check. An auxiliary lane is the portion of the highway adjoining the traveled way for speed change, turning, storage for turning, weaving, truck climbing, and other purposes supplementary to through-traffic movement. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Auxiliary Lane Width in the Policy Review Module (PRM) Engineer's Manual.
- **Shoulder Width** - Widget type: check box. This check box selects/deselects the shoulder width policy check. The shoulder is the portion of the highway contiguous with the traveled way that accommodates stopped vehicles, emergency use, and lateral support of subbase, base and surface courses. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Shoulder Width in the Policy Review Module (PRM) Engineer's Manual.
- **Shoulder Type** - Widget type: check box. This check box selects/deselects the shoulder type policy check. AASHTO policy addresses two shoulder conditions - paved or unpaved. If this policy check is not supported by the user selected policy, the corresponding check

box will be disabled. For additional information, see Shoulder Type in the Policy Review Module (PRM) Engineer's Manual.

- **Normal Cross Slope** - Widget type: check box. This check box selects/deselects the normal cross slope policy check. The normal cross slope is the lateral slope of the traveled way on tangent alignment. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Normal Cross Slope in the Policy Review Module (PRM) Engineer's Manual.
- **Normal Shoulder Slope** - Widget type: check box. This check box selects/deselects the normal shoulder slope policy check. Normal shoulder slope on the roadside is defined as the downward slope of the shoulder away from the traveled way. This PRM check only evaluates normal shoulder slope and does not address cross slope rollover. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Normal Shoulder Slope in the Policy Review Module (PRM) Engineer's Manual.
- **Cross Slope Rollover** - Widget type: check box. This check box selects/deselects the cross slope rollover on curves policy check. Cross slope rollover rate on horizontal curves is the algebraic difference in cross slopes of the shoulder and traveled way. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Cross Slope Rollover on Curves in the Policy Review Module (PRM) Engineer's Manual.
- **Normal Ditch Design** - Widget type: check box. This check box selects/deselects the normal ditch design policy check. A roadside ditch is an open channel, usually paralleling the highway, to collect and convey stormwater runoff from the highway right-of-way. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Normal Ditch Design (not available in the current release of IHSDM) in the Policy Review Module (PRM) Engineer's Manual.
- **Bridge Width** - Widget type: check box. This check box selects/deselects the bridge width policy check. Bridge width is defined as the clear highway width on a structure, including the traveled way and shoulder. Bridge width is measured from face of curb to face of curb, or from base of parapet to base of parapet. Bridge width does not include sidewalk or other pedestrian facilities not available for the use of vehicular traffic. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Bridge Width in the Policy Review Module (PRM) Engineer's Manual.
- **Clear Zone & Roadside Slope** - Widget type: check box. This check box selects/deselects the clear zone and roadside slope policy check. Clear zone and roadside slope requirements are directly related and, therefore, evaluated together. Clear zone is described in AASHTO policy as the unobstructed relatively flat area provided beyond the edge of traveled way for the recovery of errant vehicles. The clear zone includes any shoulders and auxiliary lanes. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Clear Zone and Roadside Slope (not available in the current release of IHSDM) in the Policy Review Module (PRM) Engineer's Manual.
- **Select/Deselect All Checks** - Widget type: button. This button selects/deselects all PRM cross section policy check review items.

- **Run Selected Checks** - Widget type: button. This button runs all selected PRM cross section policy checks for the current analysis/highway.
- **Cancel Any Running Checks** - Widget type: button. This button cancels any running policy checks for the current analysis/highway.
- **View Current Analysis Report** - Widget type: button. This button launches the user's preferred report viewer to display the current analysis report.
- **View Analysis Report Index** - Widget type: button. This button item launches the user's specified HTML browser to display an index of analysis reports available for the current analysis.
- **Show Results** - Widget type: button. This button displays a dialog that lists all policy exceptions found during the current session.
- **Run Analysis Summary** - Widget type: button. This button launches the user's preferred HTML browser to display the current analysis report summary.

3.1.3.3.3 Horizontal Alignment Tab

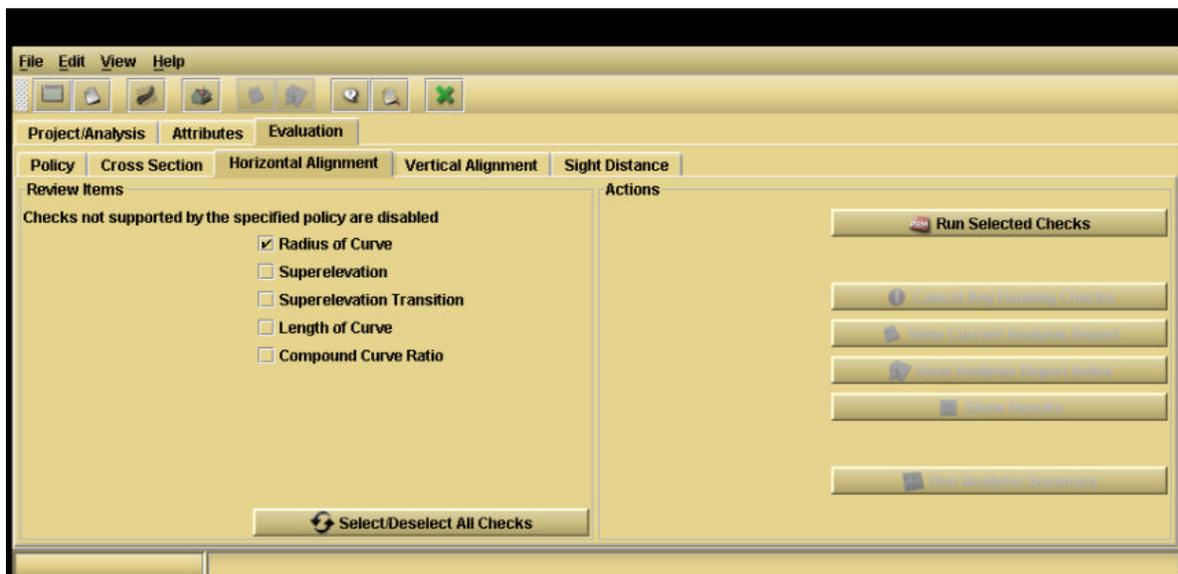


Figure 5 Evaluation/Horizontal Alignment Tab

The **Horizontal Alignment** tab includes the following widgets: Radius of Curve, Superelevation, Superelevation Transition, Length of Curve, Compound Curve Ratio, Select/Deselect All Checks, Run Selected Checks, Cancel Any Running Checks, View Current Analysis Report, View Analysis Report Index, Show Results and Run Analysis Summary.

- **Radius of Curve** - Widget type: check box. This check box selects/deselects the radius of curve policy check. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Radius of Curve in the Policy Review Module (PRM) Engineer's Manual.
- **Superelevation** - Widget type: check box. This check box selects/deselects the superelevation design policy check. Superelevation rates are determined using the design maximum superelevation rate. This maximum rate would be used for the sharpest curve recommended (shortest radius) for a given design speed. Longer radii curves have lower superelevation rates. If this policy check is not supported by the user selected policy, the

corresponding check box will be disabled. For additional information, see Superelevation in the Policy Review Module (PRM) Engineer's Manual.

- **Superelevation Transition** - Widget type: check box. This check box selects/deselects the superelevation transition design policy check. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Superelevation Transition (not available in the current release of IHSDM) in the Policy Review Module (PRM) Engineer's Manual.
- **Length of Curve** - Widget type: check box. This check box selects/deselects the length of horizontal curve policy check. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Length of Horizontal Curve in the Policy Review Module (PRM) Engineer's Manual.
- **Compound Curve Ratio** - Widget type: check box. This check box selects/deselects the compound curve ratio policy check. If this policy check is not supported by the user-selected policy, the corresponding check box will be disabled. For additional information, see Compound Curve Ratio in the Policy Review Module (PRM) Engineer's Manual.
- **Select/Deselect All Checks** - Widget type: button. This button selects/deselects all PRM horizontal alignment policy check review items.
- **Run Selected Checks** - Widget type: button. This button runs all selected PRM horizontal alignment policy checks for the current analysis/highway.
- **Cancel Any Running Checks** - Widget type: button. This button cancels any running policy checks for the current analysis/highway.
- **View Current Analysis Report** - Widget type: button. This button launches the user's preferred report viewer to display the current analysis report.
- **View Analysis Report Index** - Widget type: button. This button item launches the user's specified HTML browser to display an index of analysis reports available for the current analysis.
- **Show Results** - Widget type: button. This button displays a dialog that lists all policy exceptions found during the current session.
- **Run Analysis Summary** - Widget type: button. This button launches the user's preferred HTML browser to display the current analysis report summary.

3.1.3.3.4 Vertical Alignment Tab

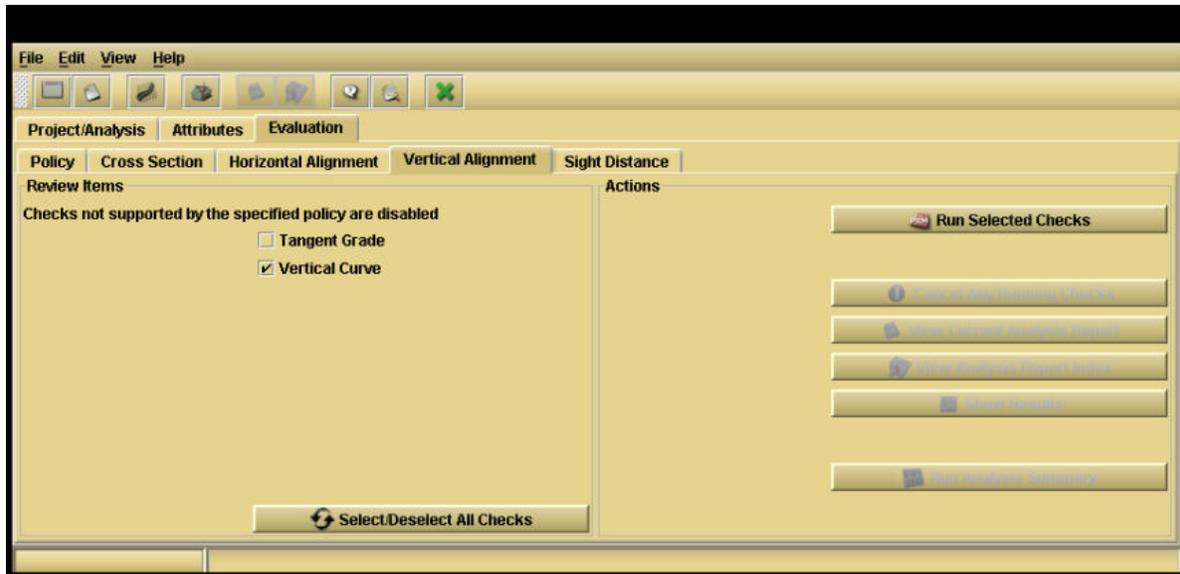


Figure 6 Evaluation/Vertical Alignment Tab

The **Vertical Alignment** tab includes the following widgets: Tangent Grade, Vertical Curve, Select/Deselect All Checks, Run Selected Checks, Cancel Any Running Checks, View Current Analysis Report, View Analysis Report Index, Show Results and Run Analysis Summary.

- **Tangent Grade** - Widget type: check box. This check box selects/deselects the tangent grade policy check. Grade is defined as the rise or fall in elevation per unit horizontal distance and is expressed in percent. A tangent that ascends in the direction of increasing stations is positive, a tangent that decreases in the direction of increasing stations is negative. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Vertical Tangent Grade in the Policy Review Module (PRM) Engineer's Manual.
- **Vertical Curve** - Widget type: check box. This check box selects/deselects the vertical curve policy check. The PRM evaluates the rate of vertical curvature, K , for parabolic crest and sag vertical curve. K is defined as the length of curvature divided by the absolute value of the algebraic difference in entering and existing grade. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Vertical Curvature in the Policy Review Module (PRM) Engineer's Manual.
- **Select/Deselect All Checks** - Widget type: button. This button selects/deselects all PRM vertical alignment policy check review items.
- **Run Selected Checks** - Widget type: button. This button runs all selected PRM vertical alignment policy checks for the current analysis/highway.
- **Cancel Any Running Checks** - Widget type: button. This button cancels any running policy checks for the current analysis/highway.
- **View Current Analysis Report** - Widget type: button. This button launches the user's preferred report viewer to display the current analysis report.
- **View Analysis Report Index** - Widget type: button. This button item launches the user's specified HTML browser to display an index of analysis reports available for the current

analysis.

- **Show Results** - Widget type: button. This button displays a dialog that lists all policy exceptions found during the current session.
- **Run Analysis Summary** - Widget type: button. This button launches the user's preferred HTML browser to display the current analysis report summary.

3.1.3.3.5 Sight Distance Tab

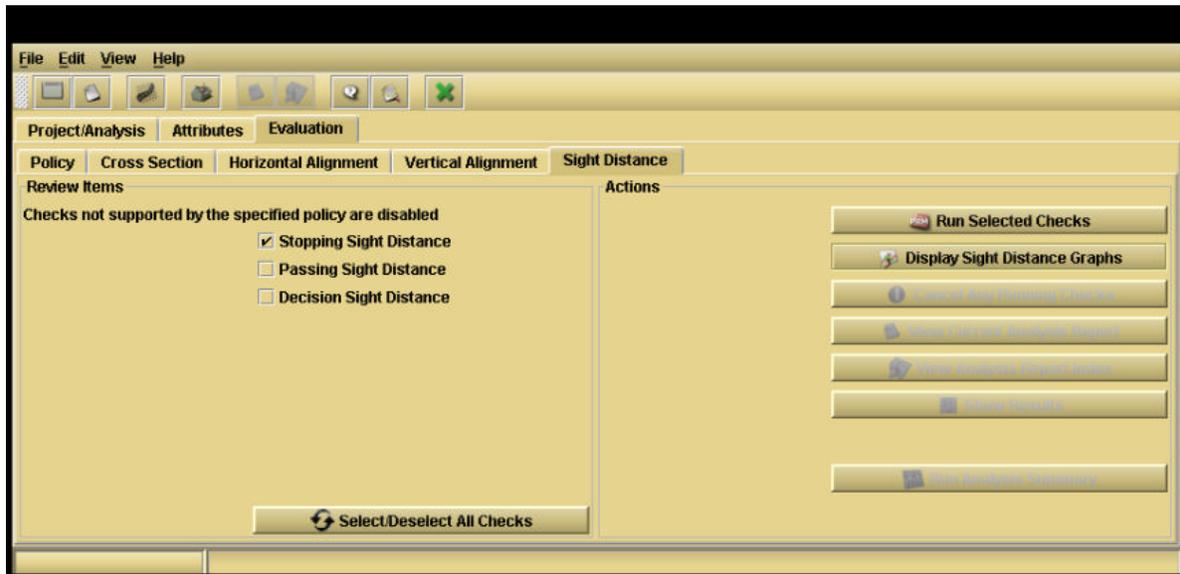


Figure 7 Evaluation/Sight Distance Tab

The **Sight Distance** tab includes the following widgets: Stopping Sight Distance, Passing Sight Distance, Decision Sight Distance, Select/Deselect All Checks, Run Selected Checks, Display Sight Distance Graphs, Cancel Any Running Checks, View Current Analysis Report, View Analysis Report Index, Show Results and Run Analysis Summary.

- **Stopping Sight Distance** - Widget type: check box. This check box selects/deselects the stopping sight distance (SSD) policy check. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Stopping Sight Distance in the Policy Review Module (PRM) Engineer's Manual.
- **Passing Sight Distance** - Widget type: check box. This check box selects/deselects the passing sight distance (PSD) policy check. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Passing Sight Distance in the Policy Review Module (PRM) Engineer's Manual.
- **Decision Sight Distance** - Widget type: check box. This check box selects/deselects the decision sight distance (DSD) policy check. If this policy check is not supported by the user selected policy, the corresponding check box will be disabled. For additional information, see Decision Sight Distance in the Policy Review Module (PRM) Engineer's Manual.
- **Select/Deselect All Checks** - Widget type: button. This button selects/deselects all PRM sight distance policy check review items.
- **Run Selected Checks** - Widget type: button. This button runs all selected PRM sight distance policy checks for the current analysis/highway.

- **Display Sight Distance Graphs** - This menu displays the names of the sight distance graphs that may be displayed. When clicked, this button provides the following menu items:
 - **Display Stopping Sight Distance Graph** - This menu item displays the most recent stopping sight distance graph generated by the policy check. If the stopping sight distance policy check has never been run for this analysis, no graph is available.
 - **Display Passing Sight Distance Graph** - This menu item displays the most recent passing sight distance graph generated by the policy check. If the passing sight distance policy check has never been run for this analysis, no graph is available.
- **Cancel Any Running Checks** - Widget type: button. This button cancels any running policy checks for the current analysis/highway.
- **View Current Analysis Report** - Widget type: button. This button launches the user's preferred report viewer to display the current analysis report.
- **View Analysis Report Index** - Widget type: button. This button item launches the user's specified HTML browser to display an index of analysis reports available for the current analysis.
- **Show Results** - Widget type: button. This button displays a dialog that lists all policy exceptions found during the current session.
- **Run Analysis Summary** - Widget type: button. This button launches the user's preferred HTML browser to display the current analysis report summary.

3.1.4 Status Bar

The Policy Review Module Frame includes the statusbar fields listed below.

Progress Bar - This progress bar displays the progress of the current processing.

Progress Bar Text - This text field bar displays the current processing status message.

4. Other Topics

4.1 Policy Checks

Refer to the Policy Review Module Implementation Manual for information about the implementation of the PRM policy checks.

4.2 IHSDM User Properties

IHSDM properties are used to control the runtime behavior of the system. For detailed information on IHSDM User Properties refer to User Properties in the User Properties and Defaults Manual and User Default Values in the User Properties and Defaults Manual.

4.3 Projects, Analyses and Master Highways

For detailed information on projects, analyses and highways, see Running IHSDM Software Manual.

4.4 IHSDM Documentation

IHSDM documentation is organized in a series of manuals oriented to specific user types and information needs. User types include first-time users, regular users, and system administrators. Information needs include: installing and configuring IHSDM, the mechanics of using the various features of the software, engineering insights to ensure appropriate use of the software and interpretation of outputs, and administering and maintaining the software installation.

The structure of the series of manuals is illustrated in the User Documentation Map. The manuals are listed and described below by the users and information needs they support:

- **Manuals for First-Time Users:** These manuals are oriented to assist new users in installing and configuring IHSDM and running it for the first time. Manuals include:
 - **Getting Started Guide** - An overview of the installation and use of IHSDM. This Guide should be sufficient for stand-alone installations. For client-server installations, the more detailed IHSDM Installation Manual will be needed.
 - **Installation Manual** - A detailed reference to the installation and configuration of IHSDM.
 - **Running IHSDM Software Manual** - An overview of the basic operations in running the IHSDM software. The intent is to provide new users the information they need to run IHSDM for the first time.
- **User's Manuals:** These Manuals are intended as references that regular users can consult when issues arise about the mechanics of using the IHSDM graphical user interface. Manuals include:
 - **IHSDM User's Manual** - A reference for using the primary IHSDM graphical user interface. Other User's Manuals provide additional details on specific components of the IHSDM graphical user interface:
 - **Policy Review Module (PRM) User's Manual** - A reference for using the (stand-alone) Policy Review Module software graphical user interface.
 - **Crash Prediction Module (CPM) User's Manual** - A reference for using the (stand-alone) Crash Prediction Module software graphical user interface.
 - **Design Consistency Module (DCM) User's Manual** - A reference for using the (stand-alone) Design Consistency Module software graphical user interface.
 - **Intersection Review Module (IRM) User's Manual** - A reference for using the (stand-alone) Intersection Review Module software graphical user interface.
 - **Traffic Analysis Module (TAM) User's Manual** - A reference for using the (stand-alone) Traffic Analysis Module software graphical user interface.
 - **Using the IHSDM Graphical User Interface** - A reference for the operation of the individual components of the graphical user interface.
 - **User Properties and Defaults Manual** - A reference for editing IHSDM system properties, user properties, and user default values.
 - **Frequently Asked Questions** - A list of frequently asked questions related to the IHSDM software.
 - **IHSDM Troubleshooting Guide** - A reference for troubleshooting IHSDM software problems.
- **Documentation of IHSDM Data:** These documents provide detailed descriptions of all IHSDM data elements and references for importing and editing data.
 - **IHSDM Highway Model** - A reference for the IHSDM highway model, including descriptions of the data elements comprising the model.
 - **LandXML Support** - A reference for IHSDM support for the LandXML data standard.

- Editing Highway Elements - A reference for using the Edit/View Highway Elements graphical user interface.
- GEOPAK-TO-IHSDM Application Programmer's Interface (API) User's Manual - A reference for using the Application Program Interface (API) to export data from GEOPAK into a format that IHSDM can import.
- Engineer's Manual: The intent of these Manuals is to provide the engineering information necessary to make appropriate use of IHSDM evaluation capabilities and interpretation of results. Manuals include:
 - Policy Review Module (PRM) Engineer's Manual - A reference for the engineering issues of using the Policy Review Module.
 - Crash Prediction Module (CPM) Engineer's Manual - A reference for the engineering issues of using the Crash Prediction Module.
 - Design Consistency Module (DCM) Engineer's Manual - A reference for the engineering issues of using the Design Consistency Module.
 - Intersection Review Module (IRM) Engineer's Manual - A reference for the engineering issues of using the Intersection Review Module.
 - **Intersection Policy Review Sub-Manual** - Describes the procedures for checking an intersection design element against relevant policy, including references to the section of the AASHTO policy that contains the information used to develop the module and check the design. **(The Intersection Policy Review Sub-Manual is not available in the current release of IHSDM.)**
 - Intersection Diagnostic Review Engineer's Sub-manual - Describes in detail the concerns that the diagnostic review component considers and the models used to evaluate those concerns.
 - Traffic Analysis Module (TAM) Engineer's Manual - A reference for the engineering issues of using the Traffic Analysis Module.
- Manuals for System Administrators: These Manuals provide system administrators the information they need to maintain IHSDM installations.
 - System Administrator's Manual - A reference for using the IHSDM Administration Tool software graphical user interface. This manual also discusses customizing variable components of IHSDM, including analysis report templates, data dictionaries, and policy files.
 - PRM/IRM Policy Table Maintenance - A reference for editing design policy tables used in the Policy Review Module and Intersection Review Module.

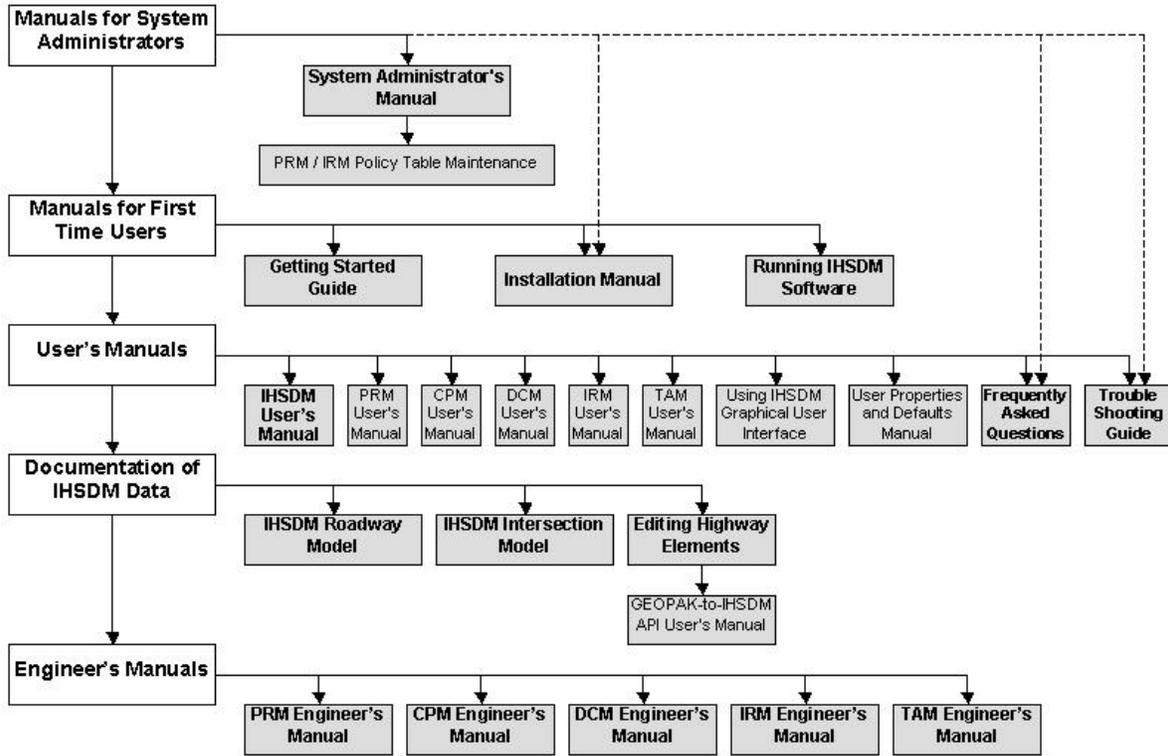


Figure 8 User Documentation Map

4.5 Troubleshooting

For updated information on troubleshooting problems in the IHSDM, refer to the IHSDM Troubleshooting guide.

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