

MicroStation Directives

MicroStation Directives

<http://selectservices.bentley.com/technotes/technotes/8160.htm>

If a configuration variable is set as follows: MS_EXAMPLE = D:\Bentley\Workspace\MyProject\3dcells.cel

This directive	Returns this information	Using the above example	Will result in
Dev()	Device	Test = \$(dev (MS_EXAMPLE))	Test = d:
Dir()	Directory	Test = \$(dir (MS_EXAMPLE))	Test = \bentley\workspace\myproject\
Devdir()	Device and directory	Test = \$(devdir (MS_EXAMPLE))	Test = d:\bentley\workspace\myproject\
Parentdir()	Parent directory	Test = \$(parentdir (MS_EXAMPLE))	Test = \bentley\workspace\
Parentdevdir()	Device and parent directory	Test = \$(parentdevdir (MS_EXAMPLE))	Test = d:\bentley\workspace\
Basename()	Filename	Test = \$(basename (MS_EXAMPLE))	Test = 3dcells
Filename()	Filename with extension	Test = \$(filename (MS_EXAMPLE))	Test = 3dcells.cel
Ext()	File extension	Test = \$(ext (MS_EXAMPLE))	Test = .cel
Noext()	Complete file specification minus extension	Test = \$(noext (MS_EXAMPLE))	Test = d:\bentley\workspace\myproject\3dcells
FirstDirPiece() *	First directory in path	Test = \$(FirstDirPiece (MS_EXAMPLE))	Test = bentley
LastDirPiece() *	Last directory in path	Test = \$(LastDirPiece (MS_EXAMPLE))	Test = myproject

* These directives were introduced in MicroStation/J v7.1.

If the configuration variable is set as follows: MS_CELL = d:\cell\mycells\;c:\cell\g:\mycells\

First()	First path from a list of paths	Test=\$(first (MS_CELL))	Test=d:\cell\mycells\
Concat()	Concatenated string	Test=\$(concat ("my", "cell"))	Test=mycell
Build()	Constructs a definition from pieces of variables	Test=\$(build ("c:",parentdir (MS_EXAMPLE),"yourcells", ext (first (MS_EXAMPLE))))	Test=c:\Bentley\Workspace\yourcells.cel



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Added an undocumented Microstation variable and a couple Geopak variables (RED).

General Comments:

1 = On
0 = Off

MicroStation Variables

Variable	Description
Microstation J Variables	
http://selectservices.bentley.com/technotes/technotes/8168.htm	
System Environment Category	
MS	The MicroStation root installation directory. Used by MDL example make files.
MS_CONFIG	Main MicroStation configuration file, sets up all configuration variables.
MS_EDG	EDG directories, not used by MicroStation itself, only EDG.
RSC_COMP	Specifies text to be inserted at the beginning of the command line by the resource compiler. This is generally used to specify where to search for include files.
MDL_COMP	Specifies text to be inserted at the beginning of the command line by the MDL compiler and rstype. This is generally used to specify where to search for include files.
BMAKE_OPT	Command line options for BMAKE. This is generally used to specify where to search for bmake include (.mki) files.
MS_DEBUGMDLHEAP	Set to the base name of an MDL application (or ALL). If set use extended malloc for debugging. This must be set as a system environment variable

Configuration Category	
MSDIR	The MicroStation root installation directory.
MSLOCAL	Specifies the base directory path for where the required writeable portions (i.e. local for a network install) of MicroStation are installed.
_USTN_DEFUSERINTNAME	Subdirectory under "_USTN_USERINT" that actually contains the default user interface resource modification files.
_USTN_USERINTNAME	Subdirectory under "_USTN_USERINT" that actually contains the user interface resource modification files.
_USTN_USERINTROOT	Root directory containing product-specific interface directories.
USTN_USERINT	User interface data directory.
USTN_PROJECTNAME	MicroStation base project name.
USTN_USERCFG	MicroStation user configuration file name.
USTN_USERNAME	MicroStation base user name.
USTN_USERDESCR	Description of current user configuration.
_USTN_DEFAULTUSER_CFG_FILE	Base name of the configuration file that holds the default user name.
_USTN_USER	Directory containing MicroStation user configuration files.
USTN_PROJECTDATA	Directory containing project-specific data.
USTN_PROJECTSROOT	Directory containing project-specific sub-directories.
_USTN_PROJECT	Directory containing MicroStation project configuration files.
_USTN_DATABASE	Directory containing MicroStation database configuration files.

MicroStation Variables

Variable	Description
_USTN_SITE	Directory containing MicroStation site configuration files.
_USTN_APPL	Directory containing MicroStation application configuration files.
USTN_WORKSPACEROOT	Root directory containing all workspace files.
USTN_SYSTEMROOT	Directory containing system workspace files.
_USTN_SYSTEM	Directory containing MicroStation system configuration files.
USTN_DATABASECFG	MicroStation database configuration file name.
USTN_DATABASENAME	Base name of current database configuration file.
_VERSIONXX	Indicates that the current product's version number is X.X
_PLATFORMNAME	Short name of this platform. Useful for building platform-specific sub-directories.
WORKDIR	Directory where MicroStation was started.
DGNDIR	Directory containing the current Design File
ROOTDIR	Location (directory) of the MicroStation executable.
USTN_OUT	Base directory for MicroStation output files.
USTN_CHARTRAN	Directory containing character translation tables.
_USTN_NEWDGNFILE	List of MDL applications to be reloaded each time a new design file is opened, except when it is the first design file.
_USTN_FIRSTDGNFILE	List of MDL applications that are loaded on startup after the user selects an initial design file.
_USTN_REQUIREDAPPS	List of MDL applications that are required to be loaded while MicroStation is running.
_USTN_DISPLAYALLCFGVARS	If set, all configuration variables (including those of the format _USTN_xxx) will be displayed.
MICROSTATION	Set if product is MicroStation.
WINNT	Set if operating system is Windows NT.
_USTN_HOMEROOT	Location for Bentley product-specific data that is unique to a computer or workstation. (MicroStation/J v7.1 only)
_USTN_HOMEPREFS	Location of home preferences. (MicroStation/J v7.1 only)
_USTN_BENTLEYROOT	Defines the root directory for Bentley product suite. By default, set to \Bentley\. The following variables are based on _USTN_BENTLEYROOT: USTN_WORKSPACEROOT, USTN_LICENSING.
_USTN_UISTANDARDS	Defines the directory for the "Corporate Standard" modification files (for example, ustn.s01). Note: This variable is not defined and is not necessary, but is placed within msconfig.cfg to act as a guide for users who want to create a corporate standard. The variable must be defined before using it.
ALL lists only	
MS_CACH	Optional cache ID string for MicroCSL.

MicroStation Variables

Variable	Description
_USTN_CUSTOMIZEBASEID	Specifies a base number at which Customize will begin generating ids for user-created resources. After this value has been set, Customize will not create any resources with a resource id lower than this value
_USTN_RMGR_MAXFILEPTRS	Specifies the maximum number of operating system file pointers that the Resource Manager will use internally to manipulate all its logical resource file handles. In version 5, this value was fixed at 6. Starting in version 5.5, the new default is 12 but can be overridden by this configuration variable.
MS_BASICEXT_LOAD	List of MDL applications that implement extensions to the BASIC language.
MS_DATA	Directory for data files created/used by MicroStation.
MS_OLDUSERLICENSE	File containing old user license information. Necessary for an upgrade installation.
MS_USERLICENSE	File containing user license information.
MS_CMDWINDRSC	MicroStation command window resource file. If not defined, use default.
MS_GUIHAND	Identifies auxiliary handlers.
MS_DYNAWEB_HELPSEVER	Specifies the server where the DynaWeb help files are located.
MS_HELPPATH	MicroStation help path.
HISTORY_MAX_MINOR_VERSIONS	The number of minor versions for the Limit History command to preserve in the history file
MS_UNDO	If set, overrides the user preference undo buffer size. The value should be the number of bytes that should be allocated to the undo buffer.
MS_RIGHTLOGICKB	If set equal to 1, support typing from right to left. Used for foreign language support.
WRK_DD_IGDS	Directory for IGDS user commands.
MS_DEMOONLY	If set, run MicroStation in demo-only mode.
MS_INITAPPS	List of all initial start up MDL Applications.
MS_EXE	The directory containing the MicroStation executable.
MS_RSRC	Main MicroStation resource, typically set to ustation.rsc.
MS_DGNOUT	Directory containing design files created from "on the fly" translations.
MS_TUT_UCMS	Directory containing user commands that drive tutorials.
_USTN_ALTCHARTRAN	Alternate character translation table.
MS_DEFCHARTRAN	Default character translation table.
MS_CODESET	MDL application for handling multi-byte character sets.
CLASSPATH	Search path used to find Java/JMDL classes.
MS_OPENDESIGNFILEFILTER	If this variable is set, then MicroStation Manager and the Open Design File dialog will use the value as the initial filter. An example value is "*.*".
MS_SELECTSERVICESHOME	URL location for SELECTservices (http://selectservices.bentley.com/). (MicroStation/J v7.1 only)

MicroStation Variables

Variable	Description
MS_SPELLINGUSERDICTIONARY	Location of the user dictionary, include path and filename. (MicroStation/J v7.1 only)
Primary Search Path Category	
MS_DEF	Search path for design files.
MS_RFDIR	Search path(s) for reference files.
MS_MDLAPPS	Search path for MDL applications that are displayed in the MDL dialog box.
MS_MDL	Search path for MDL applications or external programs loaded by MDL applications.
MS_MACRO	Search path for macros.
MS_RSRCPATH	Search path for resource files loaded by MDL applications.
MS_LIBRARY_PATH	Search path for dynamic link libraries.
Plotting Category	
MS_BATCHPLT_SPECS	Name of the file containing batch plotting specifications.
MS_PLTFILES	Directory for plotting output files.
MS_PLOTINI	Search path(s) for saved plot configuration files.
MS_PLTR	Name of the plotter driver file that describes plotter features.
MS_PENTABLE	Search path(s) for pen tables.
Cell Category	
MS_CELL	Search path(s) for cell libraries.
MS_CELLLIST	List of cell library files to be searched for cells if not found in the current library. May contain wildcards.
MS_CELLSELECTORDIR	Directory for Cell Selector button configuration (.csf) files.
MS_CELLSELECTOR	Default Cell Selector button configuration file.
MS_CELLOUT	Default directory when creating new cell libraries.
MS_MENU	Cell library name for finding menu cells.
MS_TUTLIB	Cell library file containing tutorial cells.
User Command Category	
MS_UCM	Search path(s) for user commands.
MS_INIT	Name of a user command to be executed at startup.
MS_EXIT	Name of a user command to be executed at exit.
MS_NEWFILE	Name of a user command to be executed when a new design file is opened.
MS_APP	Search path(s) of applications started from 'TSK' statement in user commands.
Seed Category	
MS_SEEDFILES	Search path(s) for all seed files.
MS_DESIGNSEED	Default seed file for creating design files.
MS_CELLSEED	Default seed file for creating cell libraries.
MS_TRANSEED	Default seed file used for DWG, CGM, and IGES translations.
MS_SHEETSEED	Seed file used when creating drawing sheets.

MicroStation Variables

Variable	Description
MS_USERPREFSEED	Name of seed file used to create user preference resource file.
Temp/Backup Category	
MS_BACKUP	Default directory for backup files.
MS_TMP	Directory containing temporary files that are created and deleted by MicroStation.
MS_SCR	Directory for scratch files created by MicroStation
Colors Category	
MS_DEFCTBL	Default color table if the design file has none.
MS_RMENCTBL	Default menu colors (dialogs, dialog borders, etc.) for the right screen. File specification pointing to a color table (.tbl) file
MS_LMENCTBL	Default menu colors (dialogs, dialog borders, etc.) for the left screen. File specification pointing to a color table (.tbl) file
Symbology Category	
MS_SYMBRSRC	A list of symbology resource files. Files are opened in the order they appear in the list. The last one in the list has the highest priority. If undefined, MicroStation looks in the current resource path for a file called "mssymb.rsc".
System Operation Category	
MS_ENHANCEDPRECISION	If set to 1, enhanced precision is enabled. If set to 0, it is disabled. Must re-open design file (rd=) for setting change to take effect.
MS_FKEYMNU	Function key menu file.
MS_ACCUDRAWKEYS	Text file listing AccuDraw shortcut keys.
MS_GRAPHICSACCELERATOR	Set to define the graphics accelerator application. Set to "qvisgl" if OpenGL technology is available on the current operating system, "quickvis" otherwise.
MS_BACKUPBEFORECOMPRESS	If set to 1, backup the current design file or cell library to MS_TMP directory before compressing. If set to 0, disable creation of backups, which can conserve disk space.
MS_RASTERSCAN	If set to 1, raster reference scanning enabled. If set to 0, disable scan.
MS_SAVEMENU	File where MicroStation stores information about attached menus. In previous versions this file name was hard-coded to mgds.men
MS_APPMEN	Location of application and sidebar menus.
MS_WORKSPACEOPTS	If set to 0 (default), the workspace options are displayed on the MicroStation Manager dialog box. If set to 1, the workspace options are displayed but disabled. If set to 2, the workspace options are hidden and the dialog box is resized.

MicroStation Variables

Variable	Description
MS_USECOMMANDWINDOW	If set to 0, MicroStation will be locked in the status bar interface. If set to 1, MicroStation will be locked in the command window interface. If not set (default), user can choose interface style from MicroStation Manager.
MS_FILEHISTORY	If set equal to 1, save the last four files and directories for each file type. If set equal to 0, no file histories will be maintained.
MS_SYSTEM	If set equal to 1, allow the user to escape to the operating system. If it is undefined or set to 0, the user cannot escape.
MS_READONLY	If set, design file will be read only.
MS_NOEOF_MSGFILE	If set, display the contents of this file when a no end-of-file error is encountered. Setting this variable also prevents the file from being opened.
MS_DISALLOWFULLREFPATH	When set to 1, the ability to save a Reference File with its full path is disallowed. This variable affects the ' Save Full Path ' toggle for both the Attach Settings and Attach Reference File dialog boxes for Reference Files. This also affects the ' Store Full Path When Attached ' toggle under the category Reference File for the User Preference dialog. Also the Drawing Composition dialog's 'Save Full Path' toggle is affected.
Rendering/Image Category	
MS_MATERIAL	Search path(s) for material palettes.
MS_PATTERN	Search path(s) for pattern maps.
MS_BUMP	Search path(s) for bump maps.
MS_IMAGE	Search path(s) for images.
MS_IMAGEOUT	Directory where created images will be stored.
MS_SHADOWMAP	Directory where shadow maps will be read from and written to.
MS_LIGHTING	Directory where IES lighting data files will be read from.
MS_RENDERLOG	File name and directory for recording rendering statistics.
Database Category	
MS_DBASE	Search path(s) for database files.
MS_SERVER	MDL application to load the database server.
MS_DBEXT	The database server application.
MS_LINKTYPE	User data linkage types recognized by the server. First one listed is the linkage type that will be created. Possible values are "ODBC", "XBASE", "DMRS", "IX", "ORACLE", and "RIS".
MS_DBMODE	File sharing flag for Xbase, either "shared" or nonshared, DOS only.

MicroStation Variables

Variable	Description
MS_DB_ODBC_DESCRIBE_DB	This variable, when set to view, will allow users to see their tables via VSQL if they have views. The user must include the table option in order to see standard tables. Link is used for Microsoft Access linked tables. Variables must be separated by commas or semicolons, for example MS_DB_ODBC_DESCRIBE_DB=view;table.
DBFORM_GEOLOCATE	If set to 1, the Visual SQL Query Builder Locate command functions similarly to the MicroStation GeoGraphics Locate command. This requires a mapid column in the database table and a maps table containing the design file names. See the example database in \\bentley\program\microstation\database\odbc\examples\access\gis.mdb.
DBFORM_NO_FEATURE	If set to 1, you will see a feature's Feature linkage(s) in VSQL.
MS_DBDIALOGRSC	Set to the directory that will store database form files (*.rsc).
VSQL_OUTPUT_BROWSER	Defines the default output of the Visual SQL Query Builder. 0 = Forms, 1 = Browser
MS_DBODBCDATEFORMAT	Defines how VSQL formats the date. By default it is set to %m/%d/%Y to display a 4-digit year.
MS_ODBCPARAMS	Usage: MS_ODBCPARAMS=DSN=datasource;uid=username;pwd=password This will let the user autoconnect to the database using ODBC. DSN is the datasource name created in ODBC. UID/PWD are the user and password for the database (if any). The above variable can also be used for making a connection using a FileDSN. This is an ASCII file that describes the database that should be used. The syntax is MS_ODBCPARAMS=FILEDSN=<full path to file DSN>. For example, MS_ODBCPARAMS = FILEDSN=j:/temp/odbcfiledsn.dsn. The drive j can be local or shared.
MS_ORACLELONGBYTEMAX	When given a value will increase long byte value in MicroStation. The default value in MicroStation is 1024. Oracle may return a value up to 4000 characters. This variable should be set to match the size of the Oracle value.
MS_BASICDBFORM	Points to a macro using Microsoft Access 2.0/7.0 Forms with Windows MicroStation. For details, see Workspace/system/macros/dbform.txt

MicroStation Variables

Variable	Description
MS_NOMSFORMSTABLE	If set to 1, no msforms or msf tables will be created in the database. These tables are only used if Oracle Forms are used. This variable may also be set as an Operating System variable, rather than in each workspace. This is configured through the System dialog in the Control Panel. Go to the Environment tab, User variables and set MS_NOMSFORMSTABLE = 1.
MS_ORACLE_HOME	Used to define the path to the Oracle client when the client machine has multiple Oracle clients installed. Enables MicroStation to connect quickly to the desired Oracle client by specifying the path explicitly. Use the path specified in the registry under ALL_HOMES as the path in this variable.
Miscellaneous Resources Category	
MS_HTMLDGNDIR	Directory containing template design files used by the HTML Author to generate cell images for HTML documents.
MS_SETTINGS	Current settings resource file.
MS_SETTINGSOUTDIR	Directory used to create settings resource files.
MS_SETTINGSDIR	Directory containing settings resource files.
MS_LEVELNAMES	Directory containing level structure data files.
MS_GLOSSARY	List of files for glossary to open to build list of terms
MDL Development Category	
MS_RDE_SYSINC	Specifies text to be inserted at the beginning of the command line by the resource compiler DLM. This is generally used to specify where to search for include files.
MS_DBGSOURCE	Location of source code for MDL applications. Used by MDL debugger.
MS_MDLTRACE	If set to 1, additional debugging print statements will be provided when debugging MDL applications.
MS_ASSERT_MESSAGE	The format of assertion failure messages. The default is "Assertion Failure %s: %s(%d)"
MS_ASSERT_HANDLING	0: display error message, 1: log error message, 2: stop in debugger. The default is 0.
MS_DEBUGFAULT	If set to 1, automatically invoke the debugger when a fault is detected while an MDL application is active. This works regardless of whether or not the application's debug information was previously loaded.
MS_DEBUG	If set to an integer with bit 1 on, do not time out
MS_TRAP	Exception handling flag. Set to "NONE", "MDL", or ALL; Default = "ALL"
Chart Category	
MS_GALLERYLIB	Cell library used by the chart application.
MS_GALLERYCELL	Default gallery cell to connect to.
DGNAPPS Category	

MicroStation Variables

Variable	Description
MS_DGNAPPS	List of all design file MDL Applications.
Command Table Load Category	
MS_CMDTABLE_LOAD	List of MDL Applications that will have their key-in tables auto-loaded.
DWG-Translation Category	
MS_DWGWIZRD	Configuration variable to enhance DWG Wizard.
MS_DWGIN	Input directory for DWG translations.
MS_DWGOUT	Output directory for DWG translations.
MS_DWGLOG	Output directory for DWG log files.
MS_DWGTABLES	Directory containing the DWG translation tables.
MS_DWGINSET	Settings file for the DWGIN application.
MS_DWGOUTSET	Settings file for the DWGOUT application.
MS_DWGCODEPAGE	Code page to be set in DWG/DXF file , ansi 1250
MS_DWGBASIC	BASIC program that controls DWG translations. Setting MS_DWGBASIC to a specific file can force DWG applications to always use one file and ignore previously used ones. If a full path is not given the file is assumed to be on the directory pointed to by MS_DWGDATA. (MicroStation/J v7.1 only)
MS_DWGDATA	Local directory to store DWG data files such as default DWG BASIC and GUI resources. (MicroStation/J v7.1 only)
CGM-Translation Category	
MS_CGMIN	Input directory for CGM translations.
MS_CGMOUT	Output directory for CGM translations.
MS_CGMLOG	Output directory for CGM log files.
MS_CGMTABLES	Directory containing the CGM translation tables.
MS_CGMINSET	Settings file for the CGMIN application.
MS_CGMOUTSET	Settings file for the CGMOUT application.
IGES-Translation Category	
MS_IGESIN	Input directory for IGES translations.
MS_IGESOUT	Output directory for IGES translations.
MS_IGESLOG	Output directory for IGES log files.
MS_IGESINSET	Settings file for the IGESIN application.
MS_IGESOUTSET	Settings file for the IGESOUT application.
Workspace Category	
_USTN_PROJECTCFG	Name of project configuration file.
_USTN_PROJECTDESCR	Description of current project configuration.
MS_USERPREF	Name of user preference resource file.
_USTN_UIPATH	Search path for user interface modification resources.
Tags Category	
MS_TAGOUTPUT	Output directory for general tags data.
MS_TAGREPORTS	Output directory for tag data manager reports.
MS_TAGTEMPLATES	Directory containing tag data manager report templates

MicroStation Variables

Variable	Description
MS_TAGCOPYTOMASTER	Set to 1 to allow tags to be copied from a reference file to the master file along with the base objects they are associated to. (MicroStation/J v7.1 only)
MS_TAGTRANSFORMWITHBASEELEMENT	Set to 1 to allow tags to be manipulated/transformed with the base objects they are associated to. For instance, with this configuration variable enabled, rotating the base element by 45 degrees will also rotate any Tag Data by 45 degrees. (MicroStation/J v7.1 only)
GRD-Translation Category	
MS_GRDIN	Input directory for GRD translations.
MS_GRDOUT	Output directory for GRD translations.
MS_GRDLOG	Output directory for GRD log files.
MS_GRDINSET	Settings file for the GRDIN application.
MS_GRDOUTSET	Settings file for the GRDOUT application.
Miscellaneous Category	
MS_ARCHIVE	Search path(s) for Archive Files.
MS_ARCHIVECLASS	Search path(s) for Archive Class Files.
MS_KEYPAIRLIST	Digital Signature KeyPair file list.
USER	The user name stored in the file locking semaphore file. Only used when semaphore file locking is turned on - by a user preference.
NODE	The node name stored in the file locking semaphore file. Only used when semaphore file locking is turned on - by a user preference
OLE Server Category	
MS_OLESERVE_EMBED_REFFILES	If set - Reference files will be embedded along with the main dgn file.
Engineering Links Category	
MS_WEBLIB_HISTORY	Specifies the history file for the Weblib shared library
MS_BOOKMARKS_IMAGE	Specifies the bookmark file for remote images.
MS_BOOKMARKS_RSC	Specifies the bookmark file for remote resource files.
MS_BOOKMARKS_ARCHIVE	Specifies the bookmark file for remote archives.
MS_BOOKMARKS_CELL	Specifies the bookmark file for remote cell libraries.
MS_BOOKMARKS_DGN	Specifies the bookmark file for remote design files
MS_REFAGENTDATA	Specifies a file containing URL information for the Reference File Agent
MS_WEBKIOSKMODE	Set to 1 for Kiosk mode.
MS_WEBTYPESFILE	Specifies a file containing special handling instructions for various file types.
MS_WEBFILES_DIR	Specifies the directory in which copies of remote files are stored.
MS_WEBDOWNLOADDIR	Sets the directory in which WWW downloads are stored.
MS_USEEXTERNALBROWSER	Set to Netscape or IExplore in order to use an external browser.

MicroStation Variables

Variable	Description
New Microstation J Variables	
http://selectservices.bentley.com/technotes/technotes/8157.htm	
MS_CELLOUT	Defines the directory for creating new cell libraries. By default, set to the first directory defined by MS_CELL
CLASSPATH	Defines the search path used to find Java/MDL classes.
_USTN_WORKSPACEROOT	Defines the root workspace. By default, set to Bentley\Workspace\. The following variables are based on _USTN_WORKSPACEROOT: _USTN_SYSTEMROOT, _USTN_SITE, _USTN_PROJECTSROOT, _USTN_USER, USTN_USERINTROOT
_USTN_BENTLEYROOT	Defines the root directory for Bentley product suite. By default, set to \Bentley\. The following variables are based on _USTN_BENTLEYROOT: USTN_WORKSPACEROOT, USTN_LICENSEING.
_USTN_SYSTEMROOT	Defines the default system data files used by MicroStation. By default, set to \$(_USTN_WORKSPACEROOT)standards\ \$(_USTN_WORSPACEROOT)system\
_USTN_PROJECTSROOT	Defines the root directory for the project sub-directories. By default, set to \$(_USTN_WORKSPACEROOT)projects\. The following variable is based on _USTN_PROJECTSROOT: _USTN_PROJECT
_USTN_DEFUSERINTNAME	Sets the default interface, if the _USTN_USERINTNAME variable is not defined. The following variables are based on _USTN_DEFUSERINTNAME: _USTN_USERINTNAME, _USTN_UIPATH
USTN_USERINTROOT	Defines the user interface root directory.
USTN_PROJECTDATA	Defines the workspaces project data directory.
_USTN_UISTANDARDS	Defines the directory for the "Corporate Standard" modification files (for example, ustn.s01). <i>Note:</i> This variable is not defined and is not necessary, but is placed within msconfig.cfg to act as a guide for users who want to create a corporate standard. The variable must be defined before using it.
MS_TAGOUTPUT	Defines the directory in which tag report templates are saved.
MS_SETTINGSOUTDIR	Defines the directory in which new Settings Manager files are created.

Microstation V8.x Variables

<http://selectservices.bentley.com/technotes/technotes/8223.htm>

Database	
MS_ORACLE_HOME	Set to establish where Oracle files are located. If the variable is not defined the system and registry are checked to find the Oracle home.

MicroStation Variables

Variable	Description
MS_OLEDBMAXDATA	Limits the amount of data returned from database columns which have virtually unlimited space. These columns would be MEMO columns in Microsoft Access and LONG columns in Oracle. The default value of this variable is 1024. Used with an ODE DB database connection.
MS_UDLDIR	Points to the directory, which contains the Universal Data Link files (.UDL). The .UDL files contain the connection strings to a particular data source. The default directory is ...\\Bentley\\program\\microstation\\database\\oledb\\udl
MS_DBOLEDBDATEFORMAT	Format of date fields returned from the database. For example %B %d, %Y will return dates in the format of (September 14, 2002). Note the comma "," was added and displayed as part of the format. Spaces also matter. %B - Full Month Name %d - Day of the month %Y - Year including the century See Microsoft's Run-Time Library Reference for more information.
MS_ODBCMAXDATA	Limits the amount of data returned from database columns which have virtually unlimited space. These columns would be MEMO columns in Microsoft Access and LONG columns in Oracle. The default value of this variable is 1024. Used with an ODBC database connection.
MS_SESSION_DEBUG	Configuration variable used to start session debug prior to server.ma loading. This allows immediate responses from the consumer DLL. If this is set as a configuration variable, it will start the debug messages as soon as the database components load. If you set MS_SESSION_DEBUG=1 you will get debug information from the mdl code (server.ma) and the corresponding DLL (ORACLE, ODBC, OLEDB). If you set MS_SESSION_DEBUG=0 you only get output from the DLL.

Dimensions	
MS_DIMENSIONPROXY	If set to "none" MicroStation V8 will draw dimensions based only on parameters. Setting the variable to "on" will allow MicroStation V8 to draw dimensions using the proxy block when the file is opened and the dimensions never edited. Dimensions will appear as they do in AutoCAD.

DWG	
MS_DWG_CREATE_SPACE_FROM_EDF	If set to 1 will cause empty edf's to be left as spaces.

MicroStation Variables

Variable	Description
MS_DWG_PGPFIL	Used to locate the AutoCAD alias file for workstations that do not have an AutoCAD installation. If AutoCAD is installed, USTN will automatically locate the PGP file in the appropriate AutoCAD sub-folder.
MS_DWGFONTPATH	Defines the path of AutoCAD fonts if AutoCAD is not installed.
MS_DWGSEED	Defines the DWG seed file used when opening AutoCAD files.
MS_DWGPATFILE	Defines full path file name containing AutoCAD Pattern definitions.
MS_DWG_BACKUP	Defines the location of DWG backup files. This can be disabled if none are desired.
MS_ACADDIR	Used to find DWG support files such as fonts.
MS_BLOCKLIST	Defines the list of DWG/DXF files to be searched for AutoCAD blocks
MS_DWGREF_ALLOWMASTERCOLORS	<p>Defines how MicroStation uses color tables for DWG or DXF files attached as references. If not defined, DWG/DXF references are always displayed using the active reference file's color table.</p> <p>If set to 1, the color tables for DWG or DXF references are handled as they are for DGN references; they are controlled by the Use Color Table setting (Workspace > Preferences > Reference category). When "Use Color Table" is on, the elements in each reference are displayed using the reference's color table. When "Use Color Table" is off, the elements in each reference are displayed using the active design file's color table. .</p>

Levels	
MS_LEVEL_LIB_DIR	Directory containing level library files
MS_HIDE_LIBRARY_SOURCE_NAMES (this variable must be created)	Will hide the Level library name that is in brackets that precedes the level name if set to 1.
MS_DGNLIBLIST	Defines the path for Level Library files
MS_V7_LEVEL_NAME_PREFIX	Defines the prefix to apply to unnamed Levels when a V7 design file is upgraded to a V8 DGN file.
MS_V7TOV8_CSVNAME	Defines the .csv file which control how levels are mapped when a V7 design file is upgraded to a V8 DGN file.
MS_V7TOV8_DELETE_UNUSED_LEVELS	If sets to 1, then all unused levels are deleted when a V7 design file is upgraded to a V8 DGN file. This variable is ignored if "V7 to V8 Level CSV File" variable is set.
MS_FILTER_LIB_DIR	This variable is used by the key-in "level filter import <file name>". When the specified <file-name> is a relative path, then the key-in looks for level filters in file \$MS_FILTER_LIB_DIR/<file-name>.

MicroStation Variables

Variable	Description
MS_UPDATE_KEEP_UNUSED_LIBRARY_LEVELS	Controls if unused library levels will be kept or deleted on a "dgnlib update levels" key-in command. If it is not set or set to "0" then unused library levels will be deleted on executing a "dgnlib update levels" command. If set to "1" then unused library levels will be kept.
MS_LEVEL_EDIT_ATTRIBUTE_LIST	This variable controls the list of reference or library level-attributes that can be edited. The attributes can be one or more of the following as a comma separated list: OverrideSymbology, OverrideColor, OverrideStyle, OverrideWeight, ByLevelSymbology, ByLevelColor, ByLevelStyle, ByLevelWeight.
MS_LEVEL_SYNC_ATTRIBUTE_LIST	Affects the "dgnlib update levels custom" & "reference synchronize levels custom" key-ins. This variable controls the list of level-attributes that will sync-up when any of the above key-ins is executed. The attributes can be one or more of the following as a comma separated list: OverrideSymbology, OverrideColor, OverrideStyle, OverrideWeight, ByLevelSymbology, ByLevelColor, ByLevelStyle, ByLevelWeight, GlobalDisplay, GlobalFreeze, Lock, Plot. Each of the above attributes can take a "Reference" or "Library" prefix. Without the prefix the said attribute will be synchronized for both reference and library levels.
MS_REF_REATTACH_LEVEL_SYNC_ATTRIBUTE_LIST	This variable controls the list of level-attributes that will sync-up when a reference is reattached. The attributes can be one or more of the following as a comma separated list: OverrideSymbology, OverrideColor, OverrideStyle, OverrideWeight, ByLevelSymbology, ByLevelColor, ByLevelStyle, ByLevelWeight, GlobalDisplay, GlobalFreeze, Lock, Plot.

Misc	
MS_AUTOSTORESTATUSBAR	If set to 1; the status bar will restore its default appearance whenever the mouse enters it.
MS_WORKMODE	Defines the workmode to either DGN or DWG
MS_DGNAUTOSAVE	Defines the frequency in seconds, of the auto save timer.
MS_OPENREFFILEFILTER	Used to override the default (*.dgn) file filter on the Attach Reference dialog box. For example, if MS_OPENREFFILEFILTER is set to *.dwg, then a list of available DWG files displays when the Attach Reference dialog box opens.

MicroStation Variables

Variable	Description
MS_THUMBNAIL	Controls the file preview display in the MicroStation Manager dialog. Most MicroStation V8 DGN files will have a thumbnail image in them. Exception will be pre-V8 files *upgraded* to V8 format. A saved view within the DGN file can be specified by defining the configuration variable MS_THUMBNAIL.. Setting MS_THUMBNAIL = None will prevent the current thumbnail from being updated. If MS_THUMBNAIL is not defined, MicroStation will search for a saved view named Preview (if it exists); otherwise, the *lowest* numbered MicroStation view window that is opened will be used.
MS_DISABLE_FILE_THUMBNAIL	When turned on, this configuration variable will disable the file preview thumbnail images in the MicroStation Manager and File>Open dialogs.
MS_DISABLE_FILE_ICONS	When turned on, this configuration variable will disable the file open icons in the MicroStation Manager and File>Open dialogs.
MS_USERPREF_APPS	Removes/Adds categories listed in the user preference dialog box. This does not apply to all apps.
_USTN_CAPABILITY	Defines the capability of the current MicroStation file, For instance, whether or not there is a DWG capability.
_VERSION80	Defines the MicroStation V8 version number being used.
MS_IMMEDIATEUPDATE	If set to 1 windows will update immediately when other windows are moved or resized over them.
MS_OPENV7	If set to 0, the current upgrade to V8 DGN or open read-only dialog. This is also true if MS_OPENV7 is undefined or defined as anything other than 1, 2, or 3. If set to: 1= Upgrade V7 to V8, no alert dialog. 2 = Open V7 as read-only, no alert dialog. 3 = Open V7 for write and set workmode to V7, no alert dialog.
MS_MAINMENUDOCKINGBESIDE	If set to 1, allows any top/bottom docking item (i.e. Toolbox, Key-in Browser, AccuDraw, etc.) to be docked beside the main menu bar.

Models	
MS_INCLUDEHIDDENMODELS	When set to 1 this will enable hidden models to be viewed in the model manager.
MS_DESIGNMODEL SEED	File containing the design seed model
MS_DESIGNMODELSEEDNAME	Name of the seed model for new design models.
MS_SHEETMODELSEED	File containing the sheet seed model.
MS_SHEETMODELSEEDNAME	Name of the seed model for new sheet models.
MS_VIEWGROUPSEED	Name of the file containing seed view group for models without a view group.

MicroStation Variables

Variable	Description
MS_VIEWGROUPSEEDNAME	Name of seed view group for models without a view group.

OLE/DDE	
MS_MAXDYNAMICIELEMS	Specifies the maximum number of elements to be displayed in dynamics for the paste command. If the number of elements to be pasted exceeds this number, the dynamics displays a rectangle to indicate the range of the elements. If the configuration variable does not exist, the value defaults to 150
MS_OLEDBMAXDATA	Limits the amount of data returned from database columns which have virtually unlimited space. These columns would be MEMO columns in Microsoft Access and LONG columns in Oracle. The default value of this variable is 1024. Used with an ODE DB database connection.
MS_SCAN_FOR_DDE_LINKS	If set to 1, MicroStation only scans the DGN file for DDE links at file open time.

Packager/Archive	
PZIP_OUT	Defines the output directory for packager files.

Printing/Plot	
MS_PLTDLG_UNLOADONCLOSE	Controls whether the plot dialog is unloaded when its window is closed. If "1" "True" or undefined, the plot dialog application unloads itself when its dialog is closed, and all settings revert to their defaults when the dialog is reopened. If this variable is set to "0" or "False", the application remains loaded after the dialog is closed, and certain settings are retained when the plot dialog is reopened. For consistent behavior of the plot dialog. It's recommended that this variable be undefined. Note that selecting File > Exit from the plot dialog menu always unloads the application.
MS_BATCHPLT_JOBSET_DIR	Name of the directory containing batch printing job files. Defining this variable may be useful if different batch job directories are used for different workspaces. If this variable is undefined, the batch print 'open' and 'save as' dialogs will default to the most recently used job filename regardless of the workspace.

Protection	
MS_PROTECTION_ENCRYPT	Set to 1 to enable file encryption or 0 to disable. The default is 0.
MS_PROTECTION_NOENCRYPT_PROPERTIES	Set to 1 to tell the protect command to leave file properties unencrypted or 0 to allow Protect to encrypt file properties. The default is 0.

MicroStation Variables

Variable	Description
MS_PROTECTION_NOENCRYPT_THUMBNAILS	Set to 1 to tell the protect command to leave the file thumbnail unencrypted or 0 to allow protect to encrypt the thumbnail. The default is 0.
MS_PROTECTION_PASSWORD_MINIMUM	Sets the minimum length of a file protection password. The default is 5.
MS_PROTECTION_PASSWORD_MIXED	Set to 1 to require password to be a mixture of letters and numbers. Set to 0 to allow passwords that contain only letters. The default is 0.

Reference	
MS_REF_FULLPATHFIRST	If set to 1 MicroStation will look in the full path first.
MS_REF_COINCIDENTWORLD	If set to 1 MicroStation will use the Coincident World for attaching multiple reference files rather than the coincident option.
MS_REF_NEWLEVELDISPLAY	If set to 1 MicroStation will set the initial display of newly detected levels from reference attachment when references are loaded.

Security	
MS_SECURITY_LEVEL	This is the security level for loading and running application in MicroStation. Set to NONE to disable security checking. Set to LOW to allow any MDL or other applications to be loaded and used. Set to MEDIUM to allow only applications that are digitally signed by Bentley or by a certificate identified by MS_SECURITY_SPC. Set to HIGH to allow only applications signed by Bentley. The default is NONE.
MS_SECURITY_SPC	This is the path where MicroStation can find the Software Publishing Certificates that were used to digitally sign the applications that can be loaded in MEDIUM security level. The default is null.

Spelling	
MS_SPELLINGDICTIONARYPATH	Specifies the directory to search for core dictionaries.

System	
SYSTEM_NATIVE_EXCEPTION_HANDLER	Native exception handler callback.

Text	
CAPABILITY_TEXT_AUTOSTACKFRACTIONS	When enabled, auto-stacks fractions (in combination with the Fractions setting for the text style).
MS_TEXT_AUTOSTACKFRACTIONS_TYPE	1=Normal 2= Diagonal (normal for DWG. The default if the configuration variable is not defined) 3=Normal Center
MS_TEXT_AUTOSTACKFRACTIONS_ALIGNMENT	1= Top 2= Center (normal for DWG. The default if the configuration variable is not defined) 3= Bottom

MicroStation Variables

Variable	Description
MS_STACKFRACTIONS_SCALE	Where n is the percentage scale factor (70 is normal for DWG and it the default if this configuration is not defined.

VBA	
MS_VBAAUTOLOADPROJECTS	Defines the names of the projects that are opened when the VBA dialog box was opened.
MS_VBANEWPROJECTDIRECTORY	Defines the directory that is used when a new project is created.
MS_VBASEARCHDIRECTORIES	Defines directories that are searched when opening an existing VBA project.

Visualization/3D	
MS_PTDIR	Defines the temporary working directory for particle tracing.
MS_LIGHTLIST	Defines the directory where the list of predefined light sources.

Working Units	
MS_CUSTOMUNITDEF	Defines what custom unit definitions are used when upgrading pre-MicroStation V8 design files. You can set this variable to point to the location of a different file.

Microstation V8.x Variables - Undocumented	
MS_V7SAVEWITHOUTENHANCEDPRECISION	You can set it to anything, just the existence of the configuration variable is checked. Useful for users with mixed Microstation SE/J/V8 environments.

Geopak V8 Variables

Variable	Description
Geopak Variable List	
Compiled from Geopak Help files and Geopak personnel.	
Database Variables	
GPK_ACBOOK_DDBFILE	Design and Computation Manager. Denotes the default DDB file as well as the default directory for DDB files.
GPK_SURVMNGR_SMDFILE	Survey Manager. Denotes the default SMD file as well as the default directory for SMD files.
GPK_GEOTECH_FILETYPE	Geotech. If one is set, the "gtd" format is utilized. Otherwise, a default type of "mdb" is assumed.
Directory Variables	
GPK_PROJMGR_PROJECTDIR	Project Manager. Denotes the default directory where Project Manager project data (PRJ files) reside.
GPK_PRJXS_CRITERIADIR	Criteria Files. Denotes the default directory where standard criteria files reside.
GPK_DC_3PCDIR	Denotes the directory where 3PC criteria files can be found by D&C Manager. Not setting this configuration variable would result in the D&C Manager looking for criteria files in the working directory.
GPK_MY_CRITERIADIR	Defines criteria files in both an INP file and a CTL file context. Hence, the following syntax could be incorporated to locate criteria files: \$(GPK_MY_CRITERIADIR)\curb.x. Relative directories are supported, including those that backtrack: \$(GPK_MY_CRITERIADIR)\..\cg\curb.x.
GPK_TYPICAL	Typicals. Denotes the default directory where typical files reside.
GPK_SUPER_PREFDIR	Superelevation. Directory to search for Preferences Files GEOPAK bin directory.
GPK_SUPER_EDIR	Directory to search for e-computation csv files.
GPK_SUPER_LENGTHDIR	Directory to search for length-computation csv files.
GPK_SUPER_AUTOSHAPEINPUTDIR	Directory to write autoshape input files and log files.
Geopak Drainage	
GPK_DRGPREF_DEFDRLIB	Path and file name for the drainage library.
GPK_DRGPREF_DEFCELLLIB	Path and file name for the cell library utilized within the Drainage Preferences.

Geopak V8 Variables

Variable	Description
GPB_DRGPREF_DEFPREFDIR	Directory for default Drainage preferences.
DTM Variables	
GPB_DTM_MNDOT_VOID_VALIDATE	If activated (set to 1), it validates and cleans ADJOINING voids and then assembles adjoining voids into one void.
GPB_DTM_VALIDATE_POLYGONAL_FEATURES	If activated (set to 1), it validates and cleans INTERSECTING Voids and Islands and assembles intersecting voids and/or islands into one void and/or island.
Editor Variables	
GPB_TYPICAL_EDITOR	Typical Editor. Setting this variable invokes a different text editor.
GPB_EDITOR	Editor. If GPB_EDITOR is defined, that program will be used, such as Notepad, Wordpad, Ultraedit, etc.
GPB_SUPER_EDITOR	Superelevation Editor. Application to use in editing .csv files from the Preference Dialog. There is no default if the variable is not defined.
Force Variables	
GPB_FORCE_ALLCFGVARS GPB_FORCE_PROJMGR_PROJECTDIR GPB_FORCE_ACBOOK_DDBFILE GPB_FORCE_SURVMNGR_SMDFILE GPB_FORCE_PLPRCLIP_DATFILE GPB_FORCE_COGOPREF_PDBFILE GPB_FORCE_TABLES_RTRFILE GPB_FORCE_ENGMET_TXTFILE GPB_FORCE_PRJXS_CRITERIADIR GPB_FORCE_CRITSYNT_IFTHENELSEFILE GPB_FORCE_CRITSYNT_BASICDRWFILE GPB_FORCE_CRITSYNT_DRWTRACEFILE GPB_FORCE_CRITSYNT_SLOPEFILE GPB_FORCE_CRITSYNT_LENGTHQFILE GPB_FORCE_CRITSYNT_DRAWTOFILE GPB_FORCE_CRITSYNT_DRAWTEXTFILE GPB_FORCE_CRITSYNT_INTRVARBFILE	Set to 1 to activate force variable(s).

Geopak V8 Variables

Variable	Description
GPK_FORCE_CRITSYNT_SUBSTRNGFILE GPK_FORCE_LABELER_DRGSTYLEFILE GPK_FORCE_LABELER_PLANSTYLEFILE GPK_FORCE_LABELER_XSSTYLEFILE GPK_FORCE_LABELER_PROFSTYLEFILE GPK_FORCE_LABELER_SITESTYLEFILE GPK_FORCE_SHEETCLP_SHEET_LIBRARY_NAME GPK_FORCE_SHEETCLP_SHEET_LIBRARY_DIR GPK_FORCE_SHEETCLP_SHEET_OUTPUT_DIR GPK_FORCE_SHEETCLP_PLAN_MOTIF_FILE_DIR GPK_FORCE_SHEETCLP_PROFILE_MOTIF_FILE_DIR GPK_FORCE_SHEETCLP_TABULAR_DATA_MOTIF_FILE_DIR GPK_FORCE_SHEETCLP_SEED_PLAN_MOTIF_FILE_NAME GPK_FORCE_SHEETCLP_SEED_PLAN_MOTIF_FILE_DIR GPK_FORCE_SHEETCLP_SEED_PROFILE_MOTIF_FILE_NAME GPK_FORCE_SHEETCLP_SEED_PROFILE_MOTIF_FILE_DIR GPK_FORCE_SHEETCLP_SEED_TABULAR_DATA_MOTIF_FILE_NAME GPK_FORCE_SHEETCLP_SEED_TABULAR_DATA_MOTIF_FILE_DIR	Set to 1 to activate force variable(s).

Inactive Geopak Variables	
GPK_NOAUTOACTIVATE	Causes GEOPAK to always be inactive when MicroStation is invoked. Define this variable to be anything to enable this operation. To utilize GEOPAK, select GEOPAK > Activate. Note to remove this operation, you must completely remove the variable.

Individual File Variables	
GPK_COGOPREF_PDBFILE	Superelevation. Denotes the default PDB file as well as the default directory for PDB file(s) for Classic Superelevation.
GPK_TABLES_RTRFILE	Denotes the location and name of the default tables file.
GPK_LDEDIT_LDBFILE	Legal Description. Denotes the location and name of the default legal description library file.
GPK_BOREHOLE_GTPFILE	GeoTechnical Preferences. Denotes the location and name of the default GEOPAK GeoTechnical Preferences file.
GPK_ENGMET_TXTFILE	English to Metric Conversion. Denotes the location and name of the default conversion file.

Geopak V8 Variables

Variable	Description
GPK_CRITSYNT_IFTHENELSEFILE GPK_CRITSYNT_BASICDRWFILE GPK_CRITSYNT_DRWTRACEFILE GPK_CRITSYNT_SLOPEFILE GPK_CRITSYNT_LENGTHQFILE GPK_CRITSYNT_DRAWTOFILE GPK_CRITSYNT_DRAWTEXTFILE GPK_CRITSYNT_INTRVARBFILE GPK_CRITSYNT_SUBSTRNGFILE	Criteria Syntax Editor. Denotes the location and names of the default criteria syntax files. When the variable is not utilized, GEOPAK uses the default files located in the geopak\bin directory.
GPK_LABELER_DRGSTYLEFILE GPK_LABELER_PLANSTYLEFILE GPK_LABELER_XSSTYLEFILE GPK_LABELER_PROFSTYLEFILE GPK_LABELER_SITESTYLEFILE	Labeler - User Text Insert. Denotes the location and names of the default user text insert files. When the variable is not utilized, GEOPAK uses the default files located in the geopak\bin directory.

Plan Sheet Variables	
GPK_SHEETCLP_SHEET_CELL_LIBRARY_DIR	Cell Library. Contains the path in which to search for sheet cell libraries (which are named in the currently attached sheet library) if the entry does not contain a path.
GPK_SHEETCLP_SHEET_LIBRARY_NAME	Sheet Library. Path and name for the sheet library.
GPK_SHEETCLP_SHEET_LIBRARY_DIR	Sheet Library. Path and name for the sheet library.
GPK_SHEETCLP_SHEET_OUTPUT_DIR	Sheet Output Directory. This is the directory with which to initialize the Output Directory in the Clip Sheets dialog. If the variable is not defined, the current working directory is utilized.
GPK_SHEETCLP_PLAN_MOTIF_FILE_DIR GPK_SHEETCLP_PROFILE_MOTIF_FILE_DIR GPK_SHEETCLP_TABULAR_DATA_MOTIF_FILE_DIR GPK_SHEETCLP_SEED_PLAN_MOTIF_FILE_NAME GPK_SHEETCLP_SEED_PLAN_MOTIF_FILE_DIR GPK_SHEETCLP_SEED_PROFILE_MOTIF_FILE_NAME GPK_SHEETCLP_SEED_PROFILE_MOTIF_FILE_DIR GPK_SHEETCLP_SEED_TABULAR_DATA_MOTIF_FILE_NAME GPK_SHEETCLP_SEED_TABULAR_DATA_MOTIF_FILE_DIR	These variables define the path of the motif files. These three variables all relate to the settings for the Motif File parts of the three corresponding types of Edit Port Information dialogs. In All variables related to Seed Motif Files refer to the Source File. The dialog title state whether the operation is for Plan, Profile, or Tabular Data with text in the dialog title such as "GEOPAK Sheet Layout: Create Plan Motif File". It is important to keep in mind the difference between SEED_MOTIF_FILE 's and MOTIF_FILE 's.

Stopping Sight Distance Variable

Geopak V8 Variables

Variable	Description
GPB_PROFILE_COMPUTATION = AASHTO2001	This variable provides an option to compute the stopping sight distance computation for vertical crest curves in accordance with the 2001 edition of A Policy on Geometric Design of Highways and Streets.

Undocumented Variables (Not in Help Files)	
TDOT_SA2TRV_DIR	Tennessee DOT data collector support. This is not a standard variable.
MAX_XS_CELL_WIDTH	Facilitates extending the XS cell to a user defined distance.
GPB_LABELER_PLAININSFILE	Defines the location and file name of the respective labeler's text insert file.
GPB_LABELER_XSDRGINSEFILE	Defines the location and file name of the respective labeler's text insert file.
GPB_LABELER_XSINSFILE	Defines the location and file name of the respective labeler's text insert file.
GPB_GWSPREF_FILENAME	Specifies location and filename of water&sewer preference file
GPB_SITE_COMPRESS_FILE	Used for compressing large GSF files for TRANSFERRING ONLY! Not for everyday use!
GPB_LABEL_NOBLANKS_BEARINGS	Controls bearing print out NOBLANKS (N45^25'25"E).
GPB_LABEL_NODUE_BEARINGS	Controls bearing print out NODUE(N 00^ 00' 00" E).
GPB_SURVMNGR_STORETOGPBTOGGLE	Allows user control whether to import survey data to GPB file or not (0 or 1) but still maps data.
GPB_PLPRCLIP_DATFILE	Defines loaction and filename of old Pan & Profile Sheet Layout DAT file.
GPB_FORCE_BOREHOLE_GTPFILE	
GPB_LABELER_WATSEWSTYLEFILE	
GPB_FORCE_SHEETCLP_SHEET_CELL_LIBRARY_DIR	
GPB_VISUALPREF_SMD	NO LONGER USED. Replaced with GPB_SURVMNGR_SMDFILE.
GPB_VISUALPREF_APPLYBESTMATCH	Set to 1 to turn on Apply Best Match Feature by default. To disable, use 0.
GPB_VISUALPREF_PLOTSCALE	Visualization and Survey mapping Plot scale.