

## MDOT\_02 Workspace Update

Below is a summary of the MDOT\_02 Workspace updates in effect as of 3/3/2015.

Note to Internal Users: DTMB is responsible for statewide server updates on the evening prior to the date listed above. MDOT cannot guarantee that server updates will occur by this time.

Previous monthly Workspace Updates are available at the following links:

Internal: [Listserv Announcements](#)

External: [http://www.michigan.gov/mdot/0,4616,7-151-9625\\_21540\\_36037\\_69214---,00.html](http://www.michigan.gov/mdot/0,4616,7-151-9625_21540_36037_69214---,00.html)

### Currently Supported CADD Software

MDOT\_01 Workspace + Power GEOPAK V8i SS2 - 08.11.07.566 + Windows 7:

- Updates are no longer being made to the MDOT\_01 Workspace.
- Projects currently underway in SS2/MDOT\_01 should remain in this Workspace.

MDOT\_02 Workspace + Power GEOPAK V8i SS3 - 08.11.09.722 + Windows 7:

- The MDOT\_02 Workspace is not backward compatible with SS3 Version 08.11.09.493.
- Utilization of SS3/MDOT\_02 is optional at this time.
- Consultants who wish to use SS3/MDOT\_02 should first obtain consent from their MDOT Project Manager.
- MDOT employees will need to contact [MDOT-PowerGEOPAKSupport@michigan.gov](mailto:MDOT-PowerGEOPAKSupport@michigan.gov) to request installation.
- The MDOT\_02 Workspace is available for download by consultants at the following link:

[http://www.michigan.gov/mdot/0,4616,7-151-9625\\_21540\\_36037-259870--,00.html](http://www.michigan.gov/mdot/0,4616,7-151-9625_21540_36037-259870--,00.html)

Consultant installation instructions are located in the "C:\MDOT\_02 Workspace\1\_Install" folder.

GEOPAK Civil Engineering Suite:

For consultants who choose to install "Geopak Civil Engineering Suite" in place of "Power Geopak", please note that the following combination of software versions is required:

MicroStation V8i (SS3)	08.11.09.608
GEOPAK Civil Engineering Suite V8i (SS3)	08.11.09.722
GEOPAK Civil Engineering Suite V8i (SS2)	08.11.07.615*

\* Note that the version of MicroStation SS3 listed above is fully backward compatible with Civil Suite SS2 and this is the only version of MicroStation SS3 that supports both versions of Civil Suite listed above.

### **Dual Workspace Installation Procedure:**

The procedure for dual installation of both the MDOT\_01 and MDOT\_02 Workspace with "MicroStation / GEOPAK Civil Engineering Suite" is presented in a document titled "\_MDOT\_0201 Geopak CivilSuite Workspace Installation Procedure.doc", which is located in the MDOT\_02 Workspace at "M:\MDOT\_02 Workspace\1\_Install\Resource Files\CivilSuite Configuration". Any questions regarding the installation process should be directed to [MDOT-SupportServices@michigan.gov](mailto:MDOT-SupportServices@michigan.gov).

Note: If installing only the MDOT\_02 Workspace, the following procedure may be used to manually modify the "MDOT\_02 / Power GEOPAK SS3" installation process for use with "MDOT\_02 / MicroStation SS3 / GEOPAK Civil Engineering Suite SS3":

1. Follow and complete the Power GEOPAK installation procedure.
2. Relocate the "MDOT\_02\_Local.ucf" and/or "MDOT\_02\_Server.ucf" files as shown below:

From Here: C:\ProgramData\Bentley\PowerGEOPAK V8i (SELECTseries 3)\WorkSpace\Users

- To Here: C:\ProgramData\Bentley\MicroStation V8i (SELECTseries)\WorkSpace\Users
3. Delete the folder named C:\ProgramData\Bentley\PowerGEOPAK V8i (SELECTseries 3) and all subfolders.
  4. Delete the custom icons that are specific to Power GEOPAK and use the generic icons that get added during software installation.

## **Workspace File Update Summary**

### User Interface

File: Interface\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Interfaces\MicroStation\mdot\_02  
Change: Renamed file from Interface\_PwrGpkSS3\_MDOT.dgnlib to Interface\_MDOT.dgnlib and relocated it to the MicroStation interface path. Also updated the Ground Point Profile name in the "MDOT Tools > Roadway > Profile" drop down menu.

File: Interface\_PwrGpkSS3\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Interfaces\PowerGEOPAK\mdot\_02  
Change: Removed file.

File: MDOT\_02.pcf  
Location: M:\MDOT\_02 Workspace\Projects  
Change: Modified path to user interface dgnlib file from Power GEOPAK folder to MicroStation folder, in order to accommodate GEOPAK Civil Suite, which loads on top of MicroStation.

### Levels & Filters

File: Features\_General\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Turned off color, weight, & line style in level overrides for the "Sheet\_Label\_" levels.

File: MaintTraf+Temp.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Level Filters  
Change: General level filter cleanup.

### Cells

File: mdot\_CellSelector.mvba  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Apps\VBA  
Change: Widened columns in the Cell Selector tool in order to accommodate all cell names and descriptions.

File: Dr\_Drain\_2D.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: Reduced size of long cell names to accommodate Cell Selector VBA.

File: Er\_Earth.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: General cell library cleanup.

File: Rs\_Vegetation.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: Renamed cell from Shrub\_Decid to Shrub.

File: Sh\_MDOT\_Sheet\_Library.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: Renamed cell library to Sh\_Sheet\_Borders\_Old.cel in order to clarify that users should not use this temporary cell library, which is used for civil classic sheet cutting and will be merged with the Sh\_Sheet\_Borders.cel as part of the April workspace update.

File: Sh\_Sheet\_Borders 2.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: Removed obsolete duplicate library.

File: Sh\_Sheet\_Borders.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: Renamed sheet cell names for use with Cell Selector tool.

File: Sh\_Sheet\_Labels.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: General cell library cleanup.

File: Sn\_Sign\_Misc.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: Removed obsolete cells and updated cell names to improve sorting with Cell Selector tool.

File: Sv\_Survey.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: General cell library cleanup.

File: Tr\_Maint\_Traffic.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: General cell library cleanup.

#### D&C Manager

File: DoNotUse\_Features\_Civil\_Classic\_MDOT.ddb  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Renamed file from "DoNotUse\_Features\_Civil\_Classic\_MDOT.ddb" to "Features\_CivilClassic\_MDOT.ddb" and added the MDOT\_01 alignment & profile drawing tools.

File: MDOT\_02.pcf  
Location: M:\MDOT\_02 Workspace\Projects  
Change: Updated D&C Manager file name in config variable path.

#### Profiles

File: Features\_CivilClassic\_MDOT.ddb  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Added PGL profile options for 40, 50, 80, 100, & 200 scale under "Geometry - Design > Vertical Alignment". Revised folder names to clarify their usage.

File: Profile\_01.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Added MDOT\_01 profile levels (left, center, & right) for use with D&C Manager, updated level overrides, & removed level filters.

File: MDOT\_02.pcf  
Location: M:\MDOT\_02 Workspace\Projects  
Change: Added config variable to load the Profile\_01.dgnlib level library.

File: Profile.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Level Filters  
Change: Updated profile level filters in order to separate Lt, Ct, & Rt levels from profile features that are linked to 3D elements.

File: mdot\_drainage.mvba  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Apps\VBA  
Change: Updated the drainage structure drawing tool for use with the MDOT\_02 workspace, including significant modifications to the user interface in order to make the tool more user friendly.

File: MDOT\_GrndPro.ini  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Apps\VBA  
Change: Updated for use with MDOT\_02 workspace.

File: MDOT\_GrndPro.mvba  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Apps\VBA  
Change: Updated for ground point profile app for use with MDOT\_02 workspace.

File: MDOT\_LabelProfilePoints.dat  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Apps\VBA  
Change: Updated the Station Equation / High-Low Point labeling data input file for use with the MDOT\_02 workspace.

File: MDOT\_LabelProfilePoints.mvba  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Apps\VBA  
Change: Updated the Station Equation / High-Low Point labeling app for use with the MDOT\_02 workspace.

File: MDOT\_ProfileVPI.ini  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Apps\VBA  
Change: Updated the Horizontal VPI labeling input file for use with MDOT\_02 workspace.

File: MDOT\_ProfileVPI.mvba  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Apps\VBA  
Change: Updated the Horizontal VPI labeling app for use with MDOT\_02 workspace.

### Roadway Design

File: MDOT Superelevation Worksheet 1.7Version.xlsx  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Superelevation  
Change: Removed for replacement by updated version.

File: MDOT Superelevation Worksheet 1.8Version.xlsx  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Superelevation  
Change: Updated to correct station output when transitioning with a station equation.

File: Features\_General\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Relinked missing element templates to Corridor Design Stages in "Project Explorer > Project Settings", in order to display correct level symbology.

File: typcells.dat  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Apps\VBA\data  
Change: Updated the Typical app's data input file for use with the MDOT\_02 workspace.

### GEOPAK Drainage

File: MDOT\_DrainTab.mvba  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Apps\VBA\Drainage Reports  
Change: Revised Inlet Spacing Tab Sheet station ranges and removed exit loss equation.

File: MDOT\_Drain\_Pref.dpf  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Classic\Drainage  
Change: Changed Free Surface Expansion junction loss coefficient to 1.0.

### SUE / SUDA

Update: Development of the Utility portion of SUE is currently in progress.

File: Util\_3D\_MDOT.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\SUDA  
Change: Completed 3D utility cell development.

### Survey

File: Features\_General\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Modified the Terrain element template settings for the 0.1 & 1 contour line option and added a 0.5 & 1 contour line option for use with ADA ramp surveys.

File: 012715\_MDOT\_02.mdb  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Survey  
Change: Updated cell names for compatibility with Cell Selector app, as shown below.

SGNC	→	?????
AGG	→	Inspect_RdBase_Agg
CLAY	→	Inspect_RdBase_Subgrade
SUB	→	Inspect_RdBase_Subbase
STS	→	Sign_Suspended_Ex
BSH	→	Shrub

File: Features\_Survey\_MDOT\_.smd  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Survey  
Change: Updated to reflect survey cell name changes.

File: Features\_Survey\_MDOT\_.xml  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Survey  
Change: Updated to reflect survey cell name changes.

File: MDOT\_02\_FEATURE\_LEVEL\_02\_2015(print format).xlsx  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Survey  
Change: Updated to reflect survey cell name changes.

File: SurveyChain.mvba  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Apps\VBA  
Change: Minor cleanup of user interface.

### Legend Sheets

File: Legend Sheet MDOT\_01.dgn  
Location: M:\MDOT\_02 Workspace\Sheets  
Change: Removed MDOT\_01 legend sheet.

File: Legend Sheets MDOT\_02 - Draft 2015-03-03.dgn  
Location: M:\MDOT\_02 Workspace\Sheets  
Change: Added draft version of the MDOT\_02 legend sheets. The legend will be expanded over time, as CADD standards are developed for each of the specialty design groups.

Links: Internal: [Sheets](#)  
External: [http://www.michigan.gov/mdot/0,1607,7-151-9625\\_21540\\_36037\\_54428---,00.html](http://www.michigan.gov/mdot/0,1607,7-151-9625_21540_36037_54428---,00.html)

### File Management

File: MassRename.exe  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Apps\EXE  
Change: This tool is intended to be used to rename a large group of files for RID submittal. The app was therefore updated to support the date format required for RID submittals.

### MDOT Technical Support

Technical support is available through the following email addresses:

Design Surveys:	<a href="mailto:MDOT-Survey_Support@michigan.gov">MDOT-Survey_Support@michigan.gov</a>
Bridge Design:	<a href="mailto:MDOT-BridgeDesignSupport@michigan.gov">MDOT-BridgeDesignSupport@michigan.gov</a>
Workspace Installation and Drawing Tools:	<a href="mailto:MDOT-CADDSupport@michigan.gov">MDOT-CADDSupport@michigan.gov</a>
Geometry Tools and Corridor Modeling:	<a href="mailto:MDOT-PowerGEOPAKSupport@michigan.gov">MDOT-PowerGEOPAKSupport@michigan.gov</a>
Geopak Drainage & Subsurface Utilities:	<a href="mailto:MDOT-Drainage-Utility@michigan.gov">MDOT-Drainage-Utility@michigan.gov</a>
Reference Information Documents (RID):	<a href="mailto:MDOT-RIDSupport@michigan.gov">MDOT-RIDSupport@michigan.gov</a>
Printing and Software Installation:	<a href="mailto:MDOT-SupportServices@michigan.gov">MDOT-SupportServices@michigan.gov</a>
ProjectWise - General (MDOT staff only):	<a href="mailto:MDOT-ProjectWise@michigan.gov">MDOT-ProjectWise@michigan.gov</a>
ProjectWise - Letting:	<a href="mailto:MDOT-ePROPOSAL@michigan.gov">MDOT-ePROPOSAL@michigan.gov</a>
ProjectWise - Consultant:	<a href="mailto:MDOT-ProjectWiseConsultant@michigan.gov">MDOT-ProjectWiseConsultant@michigan.gov</a>
ProjectWise - Construction:	<a href="mailto:MDOT-ProjectWiseCONST@michigan.gov">MDOT-ProjectWiseCONST@michigan.gov</a>