

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.6	State Kit (v1.24 Amended)	04/15/24	<u>Interim Director Larry Flynn</u> Priority: HIGH, Complexity: SIMPLE Transportation director Malcolm "Mack" Long has retired requiring updated plan set title sheet seal.	The director Malcolm "Mack" Long and title were removed entirely from the plan set title sheet seal.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Blocks\SU-Cadastral Notes.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Electrical-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Signing-Layouts.dwt (updated)	
2022.2.5	State Kit (v1.24)	02/03/24	<u>Alignment Geometry Abbreviations</u> Priority: HIGH, Complexity: SIMPLE Alignment Geometry Point Text Alignment End and Alignment Beginning abbreviations are not updated to BOA and EOA.	Drawing setting abbreviation updates were made to the Alignment Geometry Point Text "Alignment End" value to be EOA and "Alignment Beginning" value to be BOA. This will be effective in new drawings only. For drawings already created, a user may make the same Drawing Settings updates. Update MDT Alignments.xmpt Project Explorer Layout Style so that the BP and EP lines are replaced with BOA and EOA.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Tools\Project Explorer\MDT Alignments.xmpt (updated)	
2022.2.5	State Kit (v1.24)	02/03/24	<u>Autodesk Part Catalog File</u> Priority: HIGH, Complexity: SIMPLE The Civil 3D installed default Autodesk Part Catalog (APC) resource file for pipes is being overwritten with state kit updates. This was previously seeded with MDT content and overwritten with each state kit update. With state kit 1.23, the MDT pipe network content was redeveloped and located in a standalone location. The default APC file was reset to exclude custom MDT content. To avoid overwriting Autodesk managed resource files, the APC file needs to be removed from the state kit package.	US Imperial Pipes.apc file deleted from state kit package.	C:\ProgramData\Autodesk\C3D 2022\enu\Pipes Catalog\US Imperial Pipes\US Imperial Pipes.apc (updated)	
2022.2.5	State Kit (v1.24)	02/03/24	<u>Culvert PTW</u> Priority: HIGH, Complexity: SIMPLE Currently the PTW code is used while collecting culvert information. The PTW is a linestring command and tries to tie the other PTWs which creates unwanted linework. A new code will be used to collect these points as a spot shot so they won't have the ability to chain together or be part of the surface. The new code is CPTW.	The new CPTW code is added to the state kit MDT Description Keys description key set with new layer V-CLVT-CPTW-NODE-E.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-PointSurvParc-Ref.dwt (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\Assets\MDTDKS.csv (updated) C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx (updated) C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las (updated)	

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2022.2.5	State Kit (v1.24)	02/03/24	<p><u>Small Linetype Text</u> Priority: HIGH, Complexity: SIMPLE Linetype text is appearing too small after state kit update 1.23.</p>	<p>The paper text height for text style MDT Arial Italic is set to .06. The paper pext height was edited to 0.0 in reference templates and resource files to agree with the linetypes.dwg. MDTADDTSTYLES code was updated to set MDT Arial Italic text styles to default with 0 as the paper text height. The paper text height must be 0 so annotation scale can be honored and linetype text appears the proper size. This update is expected to be effective in all existing drawings without further action after state kit update. Using "Add MDT Textstyles" from the MDT Tools tool palette would resolve any remaining issues.</p>	<p>C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Linetypes\linetypes.dwg (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Tools.VLX (updated)</p>	
2022.2.5	State Kit (v1.24)	02/03/24	<p><u>Start Templates Units and Zone Default Coordinate System</u> Priority: HIGH NAD83 Montana State Planes, International Foot (MT83IF) is selected as the coordinate system in drawing start templates. This does not align with the NAD83 (2011) adjustment for which is applied with current survey practice.</p>	<p>Civil 3D Coordinate System</p> <p>MDT Start Templates within Civil 3D have been defaulted to NSRS11MTIF. This system realization corresponds to NAD-83(2011). This is the realization of NAD-83 for most of MDT's ongoing Preconstruction projects; however, it is possible that the control was set in a different realization. It will be the project manager's responsibility to ensure that the survey read-me file is in congruence with the drawing settings set in Civil 3D. If the survey read-me file for the project UPN is not NAD-83(2011), it will be necessary to change the realization in the drawing settings to match. It's important to note that if a project is ongoing, certain file types can be projected to an incorrect location if the coordinate system is not congruent with the imported file's coordinate system metadata. These files include GIS file types, TIFF orthomosaics, and point clouds.</p> <p>Reference the survey read me TXT file (XXXXXXXXSURME001.txt) for the coordinate system used with the project control. The drawing file coordinate system setting may be reviewed in the file's drawing settings - Command EDITDRAWINGSETTINGS > Units and Zone.</p>	<p>C:\mdoh\StateKit\Civil 3D\2022\Annotation*.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Blocks*.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Linetypes\DGNlinetypes.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Linetypes\linetypes.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg*-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\x-mdt-build.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference*-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference*-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets*-Layouts.dwt (updated)</p>	

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2022.2.5	State Kit (v1.24)	02/03/24	Update MDT-Typical code set style Priority: HIGH, Complexity: SIMPLE Code set style MDT-Typical needs updating.	<ul style="list-style-type: none"> - Edit MDT-Typical style as described in steps below. Then create a copy and name it MDTTypical Special for projects with special borrow less than 2' in depth. - Change majority of shape styles to _MDT-No Display, except Pave styles. - Edit MDT-Pave1 style so that the section will plot as black for both Plan and Section View Directions. - Change color to 160 - Rename Concrete Hatch style to MDTConcrete Hatch and edit so that scale in Plan and Section View Directions for AR-CONC hatch pattern is 0.1. - Set Barrier, Curb and Sidewalk shape styles to MDT-Concrete Hatch. - Create shape style called MDT-Special Borrow with hatching for special borrow shape. Use ANSI31 pattern with a scale of 2.000 for Section and Plan view directions. Color 82 for Shape Area Fill. - Place Shape Border Line on X-MISC-NPLT layer so that the vertical lines differentiating the subassemblies do not plot. Set Color to 255,255,254 (True Color) for Border Line. The border line will allow for snapping dimensions to the points on the linework. - Turn off majority of links except Base for MDTTypical and all links except Base and Subbase for MDT-Typical Special. Keep links for Mill. - Import Geo_Fab link - Create new Link style called MDT-Geotextile for special borrow. Use Color 72, MDT_GEOTEXT line style, 0.5000 LT Scale for both Plan and Section views - Set Geo_Fab and Subbase links to MDTGeotextile style - Set MDT-Mill Lineweight to 0.005" and color to 236. - Set Feature Line Styles for Points to _MDT-No Display. - Turn off render material on both styles - Change all lineweights in above edited styles to 0.005" for Plan and Section View Directions. - Update MDT - Standard.ctb to edit color 255 from object color to 255,255,254 in the plot style table and turn off dithering. 	<ul style="list-style-type: none"> C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Plotting\Plot Styles\MDT - Standard.ctb (updated) 	

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2022.2.5	State Kit (v1.24)	02/03/24	<u>Add dynamic blocks to electrical standard details</u> Priority: MEDIUM, Complexity: SIMPLE Need to add the following electrical standard detail blocks: EL-Service, VMS-Detail, VMS-Reference.	EL-Service, VMS-Detail, and VMS-Reference standard detail blocks added to EL-Standard Details.dwg.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\EL-Standard Details.dwg (updated)	
2022.2.5	State Kit (v1.24)	02/03/24	<u>Electrical VMS Blocks</u> Priority: MEDIUM, Complexity: SIMPLE New VMS blocks required to support electrical standard details.	New dynamic block "VMS" added.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\EL-Plan.dwg (updated)	
2022.2.5	State Kit (v1.24)	02/03/24	<u>Missing Multileader MDT STD-Arial .06</u> Priority: LOW, Complexity: SIMPLE The design-start.dwt template is missing the MDT STD-Arial .06 multileader style.	The design-start.dwt template was updated to include the MDT STD-Arial .06 multileader style. This can be added to any file previously created using the MDT Tools palette button "Add MDT Multileader Styles" or "Add/Refresh ALL MDT Drawing Components".	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt (updated)	
2022.2.5	State Kit (v1.23.1)	12/18/23	<u>Update Profile Tool</u> Priority: HIGH, Complexity: SIMPLE The MDT profile needs to be reset on demand to correct errors caused by profile corruption.	Add MDRESETPROFILE command. Add "Reset MDT State Kit Profile" tool button to the MDT Tools tool palette.	C:\MDOH\Bundle-Build\MDT2022Tools.VLX (updated) C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Tools\Palettes\10-MDT Tools.atc (updated) Other non-state kit files: 2022StateKit-Gen.docx (updated)	
2022.2.5	State Kit (v1.23.1)	12/18/23	<u>Waterway Flowline Direction</u> Priority: HIGH, Complexity: SIMPLE Waterway flowlines surveyed with feature codes FL and FLU are presenting in Civil 3D in the opposite direction intended.	Flow arrow direction was reversed for linetypes MDT_FLOW_UP and MDT_FLOW_DOWN. Add MDT Linetypes needs to be applied to update linetypes in any existing drawings making use of these linetypes.	C:\mdoh\StateKit\Civil 3D\2022\Linetypes\linetypes.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Linetypes\MDT_Linetypes.lin (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Uilities-Layouts.dwt (updated)	
2022.2.5	State Kit (v1.23)	12/14/23	<u>Add existing Layer to the Survey/Photo filter</u> Priority: LOW, Complexity: SIMPLE Layer V-UTIL-POLE-SYMB-E is needed in the Survey Photo > Photo Nodes-Symbols layer filter.	Layer V-UTIL-POLE-SYMB-E was added to the Survey Photo > Photo Nodes-Symbols layer filter.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-LayerFilters.lft (updated)	
2022.2.5	State Kit (v1.23)	12/14/23	<u>Add updated StateKit Subassembly (MDT Curb and Gutter)</u> Priority: MEDIUM, Complexity: MODERATE MDT Curb and Gutter width isn't adjustable. □	The MDT Curb and Gutter subassembly was modified to add a Curb Width parameter. Also modified to include Front Gutter Offset parameter to allow vertical offset at the attachment point and Pave1 Depth to facilitate matching lane base and subbase depth.	C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Curb and Gutter*. * (updated) C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) Other non-state kit files: 2022StateKit-Asm_Subasm.docx (updated) MDT Curb and Gutter.pkt (updated)	

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2022.2.5	State Kit (v1.23)	12/14/23	<u>Autodesk Civil 3D Layouts/Sheets for Hydraulics</u> Priority: MEDIUM, Complexity: MODERATE Updates needed for HY-Summary, HY-Detail-STD, HY-Detail-HDS layouts.	HDS Notes, Exceedance Probability table and "Hydraulic Data Summary" sheet description added to HY-Detail-HDS layout. HY-Summary layout removed. "DETAIL" title added to the top of HY-Detail-STD layout. Irrigation Summary layout HY-Detail-IDS added.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Hydraulics-Layouts.dwt (updated)	
2022.2.5	State Kit (v1.23)	12/14/23	<u>EL Standard Drawings Update</u> Priority: LOW, Complexity: SIMPLE Electrical detail drawings for 2A & 3A Signal Standards and 10-A Luminaire Standards require updates.	Updated 2A & 3A Signal Standards (added ring stiffening & note for CJP detail, changed luminaire and luminaire mast arm wall thickness to 10 ga., added elevator plumbizers for all mast arm connections). Updated 10-A Luminaire Standards (anchor bolt pre-tensioning "per Standard Specs," changed wall thickness to 10 ga.) Minor formatting & spelling corrections to several drawings.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\EL-Standard Details.dwg (updated)	
2022.2.5	State Kit (v1.23)	12/14/23	<u>Excel - HY Summary</u> Priority: MEDIUM, Complexity: MODERATE Excel Hydraulic data summary and irrigation data summary frames are used for plan development. Accessibility to templates for Civil 3D use is needed.	Hydraulic data summary / irrigation data summary Excel file is included in the state kit for distribution for plan development.	C:\mdoh\StateKit\Civil 3D\2022\Tools\Excel Manager\Hydraulics\HydraulicDataSummary_IrrigationDataSummary.xlsx (new)	
2022.2.5	State Kit (v1.23 / v1.24)	12/14/23 02/23/24	<u>Link for MDT Civil 3D Subassembly and Assembly Guide</u> Priority: HIGH, Complexity: SIMPLE The MDT Civil 3D Subassembly and Assembly Guide source link file name requires updates.	The tool palette MDT Civil 3D Subassembly and Assembly Guide link is updated on the tool palette and within MDT Civil 3D State Kit Overview to https://www.mdt.mt.gov/other/webdata/external/ESDC/library/2022StateKit-Asm_Subasm.pdf .	C:\mdoh\StateKit\Civil 3D\2022\Toolpalette\Content\Palettes\10_MDT Content.atc (updated v1.23) C:\mdoh\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated v1.24) C:\mdoh\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\20_MDT Assemblies.atc (updated v1.24)	
2022.2.5	State Kit (v1.23)	12/14/23	<u>MDT C3D Styles Coordination-Dimension Styles</u> Priority: MEDIUM "MDT Leader Dimension" dimension style landing distance and landing gap are too large.	The landing gap was set to 0.03 for MDT STD dimension styles and landing distance was shortened to .10 for all multileader styles. MDT STD-Arial Italic .06 multileader style was added.	C:\mdoh\StateKit\Civil 3D\2022\Annotation\Dimensions.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Annotation\Multileaders.dwg (updated)	

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2022.2.5	State Kit (v1.23)	12/14/23	<u>MDT State Kit EULAs & WisDOT licensing</u> Priority: HIGH, Complexity: MODERATE WisDOT (Wisconsin Department of Transportation) content will be implemented in the MDT State Kit under an MIT license. Two licenses currently exist: The "MT\CADD_UPDATER\EULA.rtf" and the "MT\CADD_EULA.txt". The "End-User License Agreement" is displayed during the installation of the MDT State Kit Updater and it is clear that it applies to the updater (the license must be accepted in order to install the updater), but it is unclear whether the license and copyright then apply to the actual State Kit content and code download during updates, because no language is included in the ZIP file.	Retain existing MDT EULA language as it applies to the State Kit content upon installation. Integrate the WisDOT required MIT license and copyright into the MDT license text and update the Updater. Create a separate licensing text file with MDT EULA and WisDOT MIT license/copyright to include with the ZIP file.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT_CADD_EULA.txt See files on request "Release 2024.0.0.3 - MDT State Kit Updater"	
2022.2.5	State Kit (v1.23)	12/14/23	<u>Missing Annotation Styles</u> Priority: HIGH, Complexity: SIMPLE Using Add MDT Textstyles, Add MDT Dimension Styles, and Add MDT Multileader Styles doesn't add all MDT styles.	All styles were restored to the appropriate annotation resource files.	C:\mdoh\StateKit\Civil 3D\2022\Annotation\Dimensions.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Annotation\Multileaders.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Annotation\Textstyles.dwg (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Tools.VLX (updated)	
2022.2.5	State Kit (v1.23)	12/14/23	<u>Move State Kit content out of Autodesk default locations (Part 2)</u> Priority: HIGH, Complexity: MODERATE Consider consultant's installation/config and avoid stomping on any files in default Autodesk files or folders for pipe network.	MDT Pipe catalogs moved to: C:\MDOH\StateKit\Civil 3D\2022\Drainage and default catalog reset in <<MDT>> profile.	See "Pipe Network and Structures".	
2022.2.5	State Kit (v1.23)	12/14/23	<u>Multileader Leader Line Heavy w/Blocks</u> Priority: HIGH, Complexity: SIMPLE Multileader style MDT STD-Arial .06 leader line inherits heavy weight when applied to blocks.	Updated MDT STD-Arial .06 multileader style weights from ByBlock to weight .005.	C:\mdoh\StateKit\Civil 3D\2022\Annotation\Multileaders.dwg (updated)	
2022.2.5	State Kit (v1.23)	12/14/23	<u>Pipe Network and Structures</u> Priority: MEDIUM, Complexity: COMPLEX Pipe network structures are not performing as expected. 1) Manholes aren't centered where two pipes would intersect, rather offset some distance. 2) Existing vs. proposed structure and pipe styles don't exist. 3) Type III & type VI inlet storm drain part rim elevation discrepancy with the topmost limits of the modeled part. 4) Manhole Structures Type 1, Type 3, and Type III and Type VI Inlet aren't functional. 5) Pipe network and structures are locked and have to be copied.	Pipe network and structures catalog built out using out-of-the-box base parts. Existing and proposed parts lists, pipe styles, and structure styles developed replacing previously developed styles. All newly developed content is named with an MDT prefix including an E for existing.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Drainage-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Drainage\MDT-Pipes Catalog\ **All Files** (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT_2022.arg (updated) C:\ProgramData\Autodesk\C3D 2022\enu\Pipes Catalog\MDT Drainage Catalog\ **All Files** (deleted) C:\ProgramData\Autodesk\C3D 2022\enu\Pipes Catalog\MDTAeccCircularConcretePipe_Imperial.xml (deleted) C:\ProgramData\Autodesk\C3D 2022\enu\Pipes Catalog\MDTAeccCircularConcretePipe_Imperial.dwg (deleted) C:\ProgramData\Autodesk\C3D 2022\enu\Pipes Catalog\US Imperial Pipes\Circular Pipes\MDT* (deleted) C:\ProgramData\Autodesk\C3D 2022\enu\Pipes Catalog\US Imperial Pipes\US Imperial Pipes.apc (updated)	

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2022.2.5	State Kit (v1.23)	12/14/23	<u>R/W Block Attributes & Parameters</u> Priority: HIGH, Complexity: SIMPLE Using RW-Plan blocks CORTIE, TRACT, and NFSLREC requires exploding block to edit each instance or to resize border to fit unique information.	RW-Plan blocks CORTIE, TRACT, and NFSLREC were edited to have multiline attributes and linear parameter/stretch actions for adjusting the width. System variable ATTPIPE set to On.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\RW-Plan.dwg (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Settings.VLX (updated)	
2022.2.5	State Kit (v1.23)	12/14/23	<u>RECOVERYMODE System Variable</u> Priority: LOW, Complexity: SIMPLE _Recover.dwg files are appearing with project files.	Set RECOVERYMODE to "0" in MDTSettings.lsp Build MDTSettings.VLX	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Settings.VLX (updated)	
2022.2.5	State Kit (v1.23)	12/14/23	<u>RR-RWAY layer color</u> Priority: LOW, Complexity: SIMPLE ByLayer color for layer RR-RWAY is hard to see on black background.	ByLayer color for layer RR-RWAY is updated to magenta (index color 6).	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx (updated) C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las (updated)	
2022.2.5	State Kit (v1.23)	12/14/23	<u>Sheet Layout Text Styles</u> Priority: LOW, Complexity: MODERATE Text style updates are needed in layouts.	MDT text styles with defined height were removed from all layouts as well as reference and start templates. Remaining standard MDT textstyles are MDT Arial, MDT Arial Italic, and MDT Arial Bold Italic. Defined height textstyles remain in block libraries and will be removed with future updates. MDT Textstyles tool palette contains tools for textstyle application with heights defined.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Notes.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Electrical-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Geometrics-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Hydraulics-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Signing-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Standard-Detail-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Survey-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Utilities-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\PageSetups-ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pln-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pln-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pro-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pro-Pro-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\XS-layouts.dwt (updated)	
2022.2.5	State Kit (v1.23)	12/14/23	<u>Utility to Clear Temp</u> Priority: MEDIUM, Complexity: SIMPLE A variety of software performance issues present are resolved by clearing the temp files (C:\MDOH\StateKit\Civil 3D\Temp and %TEMP%). Users need to be able to do this.	Created batch file. Users may access the shortcut "Clear Temp Files.lnk" from C:\MDOH\StateKit\Civil 3D\2022\Tools\ as needed. This shortcut existed previously. If users had moved the shortcut from Tools to their Desktop they will need to copy the shortcut over again. If it's run from the tools folder users don't have to change anything. Using this shortcut to remove temporary files is recommended frequently and especially after a Civil 3D crash.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\Tools\cleartemp.bat (updated) C:\MDOH\StateKit\Civil 3D\2022\Tools\Clear Temp Files.lnk (updated)	

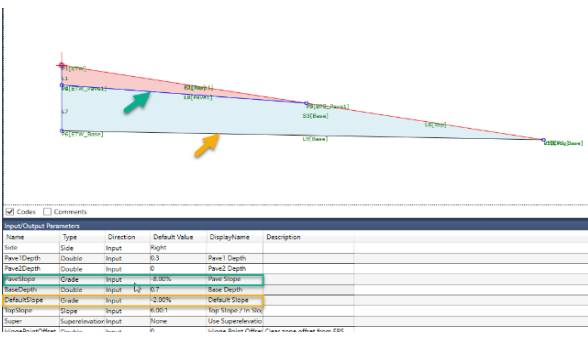
MDT Civil 3D State Kit Updates

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2022.2.5	State Kit Updater (v2024.0.0.3)	12/14/23	<p><u>MDT State Kit Updater</u> Priority: HIGH, Complexity: SIMPLE 1. Need to add MIT (WisDOT) licensing info for `WisDOT.Extensions.dll`. 2. Updater documentation is formatted incorrectly and needs content edits. 3. Need to add ability to install a 2024 State Kit for testing. 4. All references to the words State Kit in User interface should have a space between words: "State Kit", not "StateKit". 5. Bug exists leaving empty state kit folders where all content is deleted with state kit updates.</p>	<p>Added MIT (WisDOT) licensing info.</p> <p>The "MDT StateKit Updater User's Guide" & "MDT StateKit Updater Operational Guide" were updated. Font and formatting errors were corrected.</p> <p>Updated INI file to include a 2024 State Kit install (future release) as an option.</p> <p>Edit UI to show space between the words State & Kit. ("State Kit", not "StateKit")</p> <p>Updated to correct empty remnant folders.</p>	<p>MDT StateKit Updater.msi (updated)</p> <p>Installed Files Updated: C:\Program Files\MDT\MDT StateKit Updater\MDT_CADD_EULA.rtf (updated) C:\Program Files\MDT\MDT StateKit Updater\MDT StateKit Updater Operational Guide.pdf (updated) C:\Program Files\MDT\MDT StateKit Updater\MDT StateKit Updater User's Guide.pdf (updated) C:\Program Files\MDT\MDT StateKit Updater\MDT StateKit Updater.exe (updated) C:\Program Files\MDT\MDT StateKit Updater\StandardDesktopConfiguration.ini (updated)</p>	
2022.2.2	State Kit (v1.22.1)	09/06/23	<p><u>Survey Figure Style</u> Priority: HIGH / Complexity: SIMPLE MDT Standard survey figure style is created without needed display settings when importing csv in survey database.</p>	<p>MDT-Survey Figure figure style and marker style created with figure line display settings to use the ByLayer linetype. MDT-Survey Figure set in the figure prefix database.</p>	<p>C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-PointSurvParc-Ref.dwt (updated) C:\ProgramData\Autodesk\C3D 2022\enu\Survey\MDT Figure Prefix Database.fdb_xdef (updated)</p>	
2022.2.2	State Kit (v1.22)	08/29/23	<p><u>"DGN" Linetype Fixes</u> (DGN Line Type Description: MDT_JERSEY_E) (Line Type Descriptions: MDT_JERSEY_E) Priority: LOW / Complexity: SIMPLE 1) "MDT_JERSEY_E " linetype has erroneous name and description. 2) The "DGN" linetypes description convention is different from the rest of the MDT linetype descriptions. 3) Detaching and reattaching _MDT-DgnLineStyle-Ref.dwt from the reference templates caused some "DGN" linetypes to become corrupted in the group and start templates.</p>	<ol style="list-style-type: none"> 1. Simplified workflow below. 2. Extract DGN Linetypes from _MDT-DgnLineStyle-Ref.dwt 3. Create New DGN Linetypes drawing 4. Edit LISP routine to include DGN Linetypes 5. Remove DGN Linetypes from _MDT-AlnProfSuper-Ref.dwt 6. Remove DGN Linetypes from _MDT-General-Ref.dwt 7. Remove DGN Linetypes from survey-group.dwt 8. Remove DGN Linetypes from design-group.dwt 9. Remove DGN Linetypes from survey-start.dwt 10. Remove DGN Linetypes from design-start.dwt 11. Update layers.dwg 12. Add DGN Linetypes back to _MDT-AlnProfSuper-Ref.dwt 13. Add DGN Linetypes back to _MDT-General-Ref.dwt 14. Filter DGN Linetypes up to survey-group.dwt 15. Filter DGN Linetypes up to design-group.dwt 16. Fix DGN Linetypes in survey-start.dwt 17. Fix DGN Linetypes in design-start.dwt 18. Build VLX File with edited MDTADDLTYPES command 	<p>C:\MDOH\StateKit\Civil 3D\2022\Layers\layers.dwg (updated) C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference_MDT-AlnProfSuper-Ref.dwt (new) C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (new) C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt (updated) C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt (updated) C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt (updated) C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Tools.VLX (updated) C:\MDOH\StateKit\Civil 3D\2022\Linetypes\DGNlinetypes.dwt (new) C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference_MDT-DgnLineStyle-Ref.dwt (deleted)</p>	

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2022.2.2	State Kit (v1.22)	08/29/23	<p><u>Add/Edit default filepaths in <<MDT>> Profile (ALIASEDIT command default filepath)</u> Priority: HIGH / Complexity: SIMPLE Typing the ALIASEDIT command does not open a .pgp file, causing the user to have to browse to choose a file. A profile filepath edit is needed.</p> <p>An MDT AutoCAD Temp directory has been added in C:\MDOH\StateKit\Civil 3D\Temp. An MDT Ribbon .cuix file has been added in C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Menu MDT User folders have been added. Profile filepaths need to be edited/added to reflect these actions.</p>	<ol style="list-style-type: none"> 1. Add %APPDATA%\autodesk\c3d2022\enu\support to the top of the list in the Support File Search Path. 2. Add C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Menu to Support File Search Path. Move next to other MDTSK2022.bundle entries. 3. In Automatic Save File Location, Temporary Drawing File Location, Print Spooler File Location, and Temporary External Reference File Location, replace existing entries with C:\MDOH\StateKit\Civil 3D\Temp 4. Add C:\MDOH\StateKit\Civil 3D\User\Tools to Trusted Locations and Additional Actions Reading File Locations 5. Export profile to C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT_2022.arg 6. Compare latest MDT_2022.arg to oldest MDT_2022.arg on BIM 360. Record the differences. 7. Add differences/changes from latest MDT_2022.arg to MDTStateKit_Reg.txt 	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT_2022.arg (updated) MDTStateKit_Reg.txt (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<p><u>Alignment Label Styles - Curve</u> Priority: MEDIUM / Complexity: SIMPLE Alignment curve label styles text alignment updates needed.</p>	<p>For styles "MDT ALGN-Design Simple Curve", "MDT ALGN-Existing Simple Curve", and "MDT ALGN-Site Simple Curve":</p> <ol style="list-style-type: none"> 1. The anchor point for the component "LeftText" and "RightText" was updated to "Middle Right" and their text attachment to "Middle Left". 2. The border gap of the component "RightText" for all three styles was updated to 0.0125". 3. The component "Radius" was split into separate components for R, T, L, and E so the borders of each are respective to each line. 4. The attachment and Y Offset for the component "PI Text" of all three styles was set to "Top Left" and 0.0" respectively to allow dragging the label close to the edge of a viewport. 	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-AlnProfSuper-Ref.dwt (updated)	

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2022.2.2	State Kit (v1.22)	08/29/23	<p><u>Assembly Style in assembly drawings</u> Priority: MEDIUM / Complexity: SIMPLE The assembly/code set style in the assembly drawings is Set to "Standard". An "MDT" code set style for design display needs to be created and applied to each assembly.</p>	<p>The following updates were made to all assembly drawings:</p> <ol style="list-style-type: none"> 1. Create "MDT-Design" assembly style in _MDT-Modeling-Ref.dwt. 2. Copy "MDT-Design" assembly style into each assembly drawing and apply to each assembly 3. Copy "MDT-Corridor-Design" code set style from _MDT-General-Ref.dwt into each assembly drawing and apply to each assembly 4. Set "MDT-Design" assembly style and "MDT-Corridor-Design" code set style as default styles for Assembly feature settings and command settings 5. Set "MDT-Design" assembly style and "MDT-Corridor-Design" code set style as default styles for Assembly feature settings and command settings in design-start.dwt 	<p>C:\MDOH\StateKit\Civil 3D\2022\Assemblies*.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (new) (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt (updated) C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt (updated)</p>																																																	
2022.2.2	State Kit (v1.22)	08/29/23	<p><u>Assembly Surfacing on High/Low Side of Super</u> Priority: HIGH / Complexity: SIMPLE Bottom CAC and bottom subsurface slopes of surfacing shoulder inslope follow lane slope on the low side of the super.</p>	<p>Modify the MDT Shoulder subassembly by adding a separate slope parameter for the paving slopes Pave1 and Pave 2. The base slope will still use the Default Slope parameter and targets while the new Pave Slope parameter will be use to assign a parameter reference value from the lane subassembly.</p>  <table border="1" data-bbox="1050 1280 1609 1401"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Direction</th> <th>Default Value</th> <th>Display/Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Pave1Depth</td> <td>Double</td> <td>Input</td> <td>0.3</td> <td>Pave1 Depth</td> <td></td> </tr> <tr> <td>Pave2Depth</td> <td>Double</td> <td>Input</td> <td>0</td> <td>Pave2 Depth</td> <td></td> </tr> <tr> <td>ShoulderSlope</td> <td>Double</td> <td>Input</td> <td>0.04%</td> <td>Shoulder Slope</td> <td></td> </tr> <tr> <td>SubDepth</td> <td>Double</td> <td>Input</td> <td>0.2</td> <td>Sub Depth</td> <td></td> </tr> <tr> <td>DefaultSlope</td> <td>Double</td> <td>Input</td> <td>2.5%</td> <td>Default Slope</td> <td></td> </tr> <tr> <td>ShoulderType</td> <td>Integer</td> <td>Input</td> <td>0</td> <td>Shoulder Type</td> <td></td> </tr> <tr> <td>Super</td> <td>Super/subassembly</td> <td>Input</td> <td>None</td> <td>Use Super/subassembly</td> <td></td> </tr> </tbody> </table>	Name	Type	Direction	Default Value	Display/Name	Description	Pave1Depth	Double	Input	0.3	Pave1 Depth		Pave2Depth	Double	Input	0	Pave2 Depth		ShoulderSlope	Double	Input	0.04%	Shoulder Slope		SubDepth	Double	Input	0.2	Sub Depth		DefaultSlope	Double	Input	2.5%	Default Slope		ShoulderType	Integer	Input	0	Shoulder Type		Super	Super/subassembly	Input	None	Use Super/subassembly		<p>C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Curb and Gutter*. * (updated) C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Daylight*. * (updated) C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference*. * (updated) C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Shoulder*. * (updated) C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT ShoulderSub*. * (updated) C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Sidewalk*. * (updated) C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\Numeric Control Line*. * (updated) C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Ramp.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\20_MDT Assemblies.atc (updated)</p> <p>Other non-state kit files: 2022StateKit-Asm_Subasm.docx (updated) MDT Curb and Gutter.pkt (updated) MDT Daylight.pkt (updated) MDT Parameter Reference.pkt (updated) MDT Shoulder.pkt (updated) MDT ShoulderSub.pkt (updated) MDT Sidewalk.pkt (updated) Numeric Control Line.pkt (updated)</p>	
Name	Type	Direction	Default Value	Display/Name	Description																																																	
Pave1Depth	Double	Input	0.3	Pave1 Depth																																																		
Pave2Depth	Double	Input	0	Pave2 Depth																																																		
ShoulderSlope	Double	Input	0.04%	Shoulder Slope																																																		
SubDepth	Double	Input	0.2	Sub Depth																																																		
DefaultSlope	Double	Input	2.5%	Default Slope																																																		
ShoulderType	Integer	Input	0	Shoulder Type																																																		
Super	Super/subassembly	Input	None	Use Super/subassembly																																																		

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2022.2.2	State Kit (v1.22)	08/29/23	<u>Bentley Layer Translator-Electrical</u> Priority: HIGH / Complexity: SIMPLE Files converted from DGN to DWG are not appropriately mapping Bentley levels to new Civil3D layer names for Electrical Data**. **	In Civil 3D the layer translator tool is found under the Manage tab in the CAD standard panel. (The Layer translator allows you to quickly and easily map the layer that you are bringing in from an outside source and then give it all the properties that you are accustomed to in your layers.) We have taken the custom data from the Bentley workspace regarding Electrical and developed a layer translator that maps targeted levels appropriately to the Civil 3D layers.	C:\mdoh\StateKit\Civil 3D\2022\Tools\Layer Translators\MDT Electrical.dws (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>Bentley Layer Translator-Hydraulics</u> Priority: MEDIUM / Complexity: MODERATE Files converted from DGN to DWG are not appropriately mapping Bentley levels to new Civil3D layer names for Hydraulics data.	In Civil 3D the layer translator tool is found under the Manage tab in the CAD standard panel. (The Layer translator allows you to quickly and easily map the layer that you are bringing in from an outside source and then give it all the properties that you are accustomed to in your layers.) We have taken the custom data from the Bentley workspace regarding Hydraulics and developed a layer translator that maps targeted levels appropriately to the Civil 3D layers.	C:\mdoh\StateKit\Civil 3D\2022\Tools\Layer Translators\MDT Hydraulics.dws (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>Bentley Layer Translator-R/W & Environmental</u> Priority: HIGH / Complexity: SIMPLE Files converted from DGN to DWG are not appropriately mapping Bentley levels to new Civil 3D layer names for R/W and Environmental data.	In Civil 3D the layer translator tool is found under the Manage tab in the CAD standard panel. (The Layer translator allows you to quickly and easily map the layer that you are bringing in from an outside source and then give it all the properties that you are accustomed to in your layers.) We have taken the custom data from the Bentley workspace regarding R/W and Environmental and developed a layer translator that maps this data appropriately to the Civil 3D layer.	C:\mdoh\StateKit\Civil 3D\2022\Tools\Layer Translators\MDT Environmental.dws (updated) C:\mdoh\StateKit\Civil 3D\2022\Tools\Layer Translators\MDT RightofWay.dws (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>Block and Layout Edits for Control and Lin&LevData Layouts</u> Priority: MEDIUM / Complexity: MODERATE Linear data needs to be removed from the N-LinearAndLevelData block.	1. Remove Linear Data from N-LinearAndLevelData block so that only Bearing Source and Level Datum Source remain, then change the block name to N-LevelData. 2. Add N-LevelData block to _MDT-Sheet-Ref.dwt. 3. Add new N-LevelData block to RD-Control-Diagram Layout within _Road-Layouts.dwt. 4. Delete one RD-Lin&LevData and rename the remaining RD-Lin&LevData to RD-Notes-Misc from _Road-Layouts.dwt. 5. Delete line for Linear & Level Data in N-TOC-Urban and N-TOC-Rural blocks. Move "& Level Data" to Control Diagram line so that it reads as "CONTROL DIAGRAM & LEVEL DATA."	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Notes.dwg (updated)	

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2022.2.2	State Kit (v1.22)	08/29/23	<u>Block Layers and Fonts: RD-XS</u> Priority: LOW / Complexity: COMPLEX Block layers don't follow layer naming convention or use Arial font.	RD-XS blocks were renamed and updated to use layer 0 and applicable color and linetype. All fonts were updated to use supported Arial text styles. Blocks applied for cross section marker styles were relocated to _MDT-General-Ref.dwt and those applied for cross section point styles were relocated to _MDT-Point-Ref.dwt.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-PointSurvParc-Ref.dwt (new) (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (new) (updated) C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-XS.dwg (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>Code Sets-Cross Section Display</u> Priority: HIGH / Complexity: MODERATE Code Set Styles are needed to support cross section display.	Updated cross section code set style with new naming. Updated marker and link label style naming and new subgrade elevation marker label style to support section view offset/elevation and slope labeling.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (new) (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>Code Sets-Design Display</u> Priority: HIGH / Complexity: MODERATE Code Set Styles are needed to support design display processes.	Build out template for each potential breakline in a subassembly, assign a style with each associated breakline. "MDT-Corridor-Design" code set style created and set as default.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (new) (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>Code Sets-Plan Display</u> Priority: HIGH / Complexity: MODERATE Code Set Styles are needed to support plan display processes.	Code Set Styles created: MDT-Corridor-Plan and MDT-Corridor-Const Limits	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (new) (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>Cross Section Blocks/Feature Line Styles</u> Priority: MEDIUM / Complexity: MODERATE The cross section blocks and utility feature line styles are not in the state kit.	1. Cross section linear feature marker blocks are relocated to _MDT-General-Ref.dwt and applied within marker styles for all existing features requiring cross section identification including utility features. This supports projection of survey figures and 3D polylines. 2. Feature line styles with section marker styles applied are developed to support projection of features. Cross section point feature blocks are relocated to _MDT-PointSurvParc-Ref.dwt with *_XS point styles for projection of cogo points on cross sections. 3. Select blocks remain within block library RD-XS.dwg for use on cross sections.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (new) (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-PointSurvParc-Ref.dwt (new) (updated) C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-XS.dwg (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>Cross section subgrade labels at critical points</u> Priority: MEDIUM / Complexity: SIMPLE Elevation/offset labels for subgrade points on the cross sections are desired.	MDT-Elevation Offset label style was assigned for the EPS_Base and MDT-Subgrade Elevation for the Crown_Base points with new MDT-X Section code set style.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (new)	

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2022.2.2	State Kit (v1.22)	08/29/23	<u>Drawing Settings Abbreviations</u> Priority: MEDIUM / Complexity: SIMPLE Drawing Settings Abbreviations need to be customized for MDT standards.	Drawing Settings Abbreviations reviewed and updated for Alignment Beginning (BOA), Alignment End (EOA), Left (LT), and Right (RT). Further updates will be reviewed as required.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>Grading Criteria Sets</u> Priority: LOW / Complexity: SIMPLE Excessive Standard grading criteria exist in the MDT Basic Set grading criteria set within the state kit.	The numerous Standard grading criteria were purged from each reference template and dwg source file.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Start-Dwg*. * (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference*. * (updated) C:\mdoh\StateKit\Civil 3D\2022\Annotation*. * (updated) C:\mdoh\StateKit\Civil 3D\2022\Blocks*. * (updated) C:\mdoh\StateKit\Civil 3D\2022\Layers*. * (updated) C:\mdoh\StateKit\Civil 3D\2022\Linetypes*. * (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>GuideSIGN and Geotechnical Modeler Tools</u> Priority: HIGH / Complexity: MODERATE GuideSIGN and Geotechnical Modeler ribbon tabs aren't present or disappear following state kit update.	MDT Civil 3D profile was recreated with GuideSIGN, AutoTURN, and Geotechnical Modeler installed and activated.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT_2022.arg (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>MDT C3D Styles Coordination-Profile Styles</u> Priority: HIGH / Complexity: MODERATE Need Profile Styles for cross sections to support MDT processes.	Profile and corresponding styles updated with new naming and additional profile options - curb flow line, edge of pavement, top back of curb. Revised profile label sets correcting vertical curve data drag states.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-AlnProfSuper-Ref.dwt (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>MDT C3D Styles Coordination-Section and Section View Styles/Command Settings</u> Priority: HIGH / Complexity: MODERATE Need Section and Section View Styles for cross sections to support MDT processes.	<ol style="list-style-type: none"> 1. Sample Line and corresponding styles updated with new naming. 2. Section and corresponding styles updated with new naming. 3. New section view and corresponding styles developed supporting 70' offset width for 1"=10' scale and 140' offset width for 1"=20' scale. 4. New styles have MDT- prefix. Previous styles were removed. 5. Layout MDT_XS_40 for 1"=40' cross sections will not be supported at this time and was deleted. 6. Layer updates to add C-ROAD-CLZN and delete C-XSEC-CLZN, C-XSEC-FLAG, C-XSEC-STRM, C-XSEC-STRM-E, C-XSEC-UTIL, C-XSEC-SSWR, C-XSEC-CLVT, and C-XSEC-CLVT-E. 7. Layout template file path updated to C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\XS-layouts.dwt MDT_XS_20. <p>Updated command settings are expected to save with project drawing files and need to be manually updated for use with these updated styles in drawings created prior to this update.</p>	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-SampSectMass-Ref.dwt (new) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (new) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-PointSurvParc-Ref.dwt (new) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Point-Ref.dwt (deleted) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\XS-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-XS.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx (updated) C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT_2022.arg	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.2	State Kit (v1.22)	08/29/23	<p><u>Microsoft .NET Core 3.1 Security Issue</u> Priority: HIGH / Complexity: MODERATE Microsoft .NET Core 3.1 component removed to address security issues. System variables require changes to support blocks palette functionality and background publishing.</p> <p>Microsoft .NET Core 3.1 Security Issue cont.</p>	<p>It was determined that changing these system variables globally in the State Kit might have a negative effect on external consultant machines. It was also determined that issues between MDT security requirements and consultant default settings might arise in the future. So a mechanism was devised for the State Kit to run different blocks of startup code depending on what type of machine it is installed on.</p> <p>A registry key value was created so the State Kit startup sequence can identify if a machine is an "MDT" machine. This key value only exists on State Kit installs on internal MDT machines and is not added to external consultant State Kit installs. The key and it's initial value data is:</p> <p>[HKEY_LOCAL_MACHINE\SOFTWARE\Autodes k] "MDT"="1"</p> <p>MDT2022Settings.VLX now checks for this key value and runs additional code if it is set to "1" (on internal machines). If the key value is not found (on external machines), it will not run the additional code.</p> <p>Different key value data can be set on specific MDT machines in the future to allow for even more granular targeting.</p> <p>Two commands that mock internal and external settings were added for administrative testing and troubleshooting: YYYInternalSettings YYYExternalSettings</p> <p>Variables will be set on MDT machines upon start up: BLOCKSTREAM_USELOCALSERVER = 0, BGCOREPUBLISH = 0</p>	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Settings.VLX (updated)	

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2022.2.2	State Kit (v1.22)	08/29/23	<p><u>Move State Kit content out of Autodesk default locations (Part 1)</u> Priority: LOW / Complexity: MODERATE Consider consultant's installation/config to avoid stomping on any files or moving default Autodesk files or folders. Candidates for moving: 1) Layer Standards/Translators, 2) Temp files</p>	<p>1. MDT Layer Standards/Translators to: C:\MDOH\StateKit\Civil 3D\2022\Tools\Layer Translators 2. Temp to: C:\MDOH\StateKit\Civil 3D\Temp. Edit MDTStatekit.txt to add folder from updater. Create tool to delete temp files. Add/Edit filepaths in the <<MDT>> profile.</p>	<p>C:\MDOH\StateKit\Civil 3D\2022\Tools\Layer Translators C:\MDOH\StateKit\Civil 3D\Temp (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Tools.VLX (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\Tools\cleartemp.bat (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT_2022.arg (updated) C:\MDOH\StateKit\Civil 3D\2022\Tools\Clear Temp Files.lnk (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDTStatekit.txt (updated)</p>	
2022.2.2	State Kit (v1.22)	08/29/23	<p><u>Multiple County Default Sheet Set Template and Properties and Names in the Border (Checked/Reviewed/Designed By Block Size)</u> Priority: LOW / Complexity: MODERATE Sheet Set Manager doesn't allow for county to be displayed differently on each sheet when multiple counties apply. MDT Border doesn't allow for any characters more than an individual's initials to represent the designer/reviewer/checker.</p>	<p>1. Listing multiple counties in the border on each sheet is advised where appropriate. Otherwise, values can be manually changed in the new border overriding the sheet set manager to apply a unique entry on each sheet. 2. Update MDT title block/border to fit majority of first initial and last names. Change the order of the fields to the following:DESIGNED BYREVIEWED BYCHECKED BY 3. Apply title block edits within _MDT-Sheet-Ref.dwt. 4. Consume changes within all applicable layout sheet template files. (All sheet files except RightOfWay-Layouts.dwt, Standard-Detail-Layouts.dwt, Survey-Layouts.dwt, and PageSetups-ref.dwt.) 5. Users may need to attribute sync and update already-created files with new block to avoid conflicting border styles in a plan set. Review support guide "MDT Title Block Names and Dates Update".</p>	<p>C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Sheet Sets\MDT_SSM.dst (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Electrical-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Geometrics-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Hydraulics-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Signing-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Utilities-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pln-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pln-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pro-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pro-Pro-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\XS-layouts.dwt (updated)</p> <p>Other non-state kit files: Support-TtlBlkNameDateUpdt.pdf (new)</p>	

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2022.2.2	State Kit (v1.22)	08/29/23	<u>Preset System & Drawing Variables (System Variables)</u> Priority: LOW / Complexity: SIMPLE System and drawing variables need to be set up for conveniences.	Set the following system variables in startup routine: AeccRefTemplateAutoUpdate 2 CMDDIA 1 FILEDIA 1 SECURELOAD 0 APPAUTOLOAD 14 LARGEOBJECTSUPPORT 1 PICKFIRST 1 PSTYLEPOLICY 1 RECOVERYMODE 0 XREFNOTIFY 1 XREFTYPE 1 ANNOAUTOSCALE 4 COORDS 1 Set the following drawing variables in startup routine: UCSFOLLOW 0 MSLTSCALE 1 PLINEGEN 1 PROXYGRAPHICS 1 PROXYSHOW 1 PROXYNOTICE 1 PDFSHX 0	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Settings.VLX (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>R/W Exhibit Legend Tract Conveyed Shade</u> Priority: LOW / Complexity: SIMPLE The RW-Legend-Exhibit block in the lower right corner of the r/w exhibits sheets, has a grayscale block for the "Tract Conveyed" that plots black.	Shading for RW-Legend-Exhibit block was updated from color 8 to color 252 to plot grey rather than black.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt	
2022.2.2	State Kit (v1.22)	08/29/23	<u>R/W Sheet Layout Viewport Clip Lines</u> Priority: MEDIUM / Complexity: MODERATE R/W sheets view port area doesn't allow for space to include sheet notes.	Viewport added to Sheets_RightOfWay-Layouts.dwt with narrowed limits allowing space above and below view port for notes to be added in the sheet layout. MDT_PlanRW* layouts removed from Pln-layouts.dwt.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pln-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	<u>RD Title Surfacing Source Note</u> Priority: MEDIUM / Complexity: SIMPLE Surfacing source note missing from title sheet layout.	Add Surfacing Source note to title sheet.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt (updated)	

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2022.2.2	State Kit (v1.22)	08/29/23	<p><u>Reduce user confusion when selecting Civil 3D styles</u> Priority: HIGH / Complexity: SIMPLE Need to reduce user confusion when selecting Civil 3D styles:</p> <ol style="list-style-type: none"> 1. Need to be able to identify which specific Civil 3D styles are used for MDT processes. 2. Need to remove unnecessary styles 3. Need to set default styles where possible 4. Need to make sure unnecessary styles are not "leaking through" the reference templates to the group templates 	<p>The following updates were made to all "styles" reference templates:</p> <ol style="list-style-type: none"> 1. Create new reference templates and delete _MDT-Full-Ref.dwt to facilitate intended style referencing. 2. Rename 2022 developed styles with MDT prefix to identify styles created for MDT processes. 3. Leave undeveloped styles from 2021 intact to identify what still needs to be reviewed. 4. Delete all "Basic" and "MDT Standard" styles. 5. Rename all reference template "Standard" styles to "MDT-Default" and set to default where "MDT" styles DO NOT exist. 6. Where "MDT" styles DO exist, set an appropriate "MDT" style to default. 7. Exclude all "Standard" styles (where possible) from referencing through the templates. 8. Set reference template defaults to avoid bringing unwanted styles forward (where possible). 	<p>C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-AlnProfSuper-Ref.dwt (updated) C:\MDOH\StateKit\Civil 3D\2022\Linetypes\DGNlinetypes.dwt (new) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-ObjectLayers-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Surface-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt (deleted) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Point-Ref.dwt (deleted) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Drainage-Ref.dwt (new) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (new) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Modeling-Ref.dwt (new) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-PointSurvParc-Ref.dwt (new) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-QTO-Ref.dwt (new) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-SampSectMass-Ref.dwt (new) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-ViewFrame-Ref.dwt (new)</p>	
2022.2.2	State Kit (v1.22)	08/29/23	<p><u>Subassembly Code Labeling</u> Priority: HIGH / Complexity: SIMPLE A method to identify subassembly codes is needed.</p>	<p>_MDT-Subassembly All Codes code set style and corresponding label styles developed to display subassemblies with point, link, and shape code name labels.</p>	<p>C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (new)</p>	
2022.2.2	State Kit (v1.22)	08/29/23	<p><u>Sheet Set Manager Default Settings</u> Priority: LOW / Complexity: SIMPLE 1) "Page setup override file" setting is wrong 2) "Sheet creation template" setting is wrong</p>	<ol style="list-style-type: none"> 1) Open the MDT_SSM.dst example file and change path for Page setup overrides file to C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\PageSetups-ref.dwt 2) Change the Sheet creation template to C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pro-layouts.dwt and select MDT_PlanProfile_200. 3) Change Prompt for template from No to Yes. 	<p>C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Sheet Sets\MDT_SSM.dst (updated)</p>	
2022.2.2	State Kit (v1.22)	08/29/23	<p><u>Survey Layer Based Feature Line Style</u> Priority: HIGH / Complexity: SIMPLE Layer Based feature line style isn't available when using survey-start.dwt.</p>	<p>Layer Based feature line style was renamed to follow MDT style naming convention and added to survey-start.dwt as MDT-Layer Based.</p>	<p>C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (new) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt (updated)</p>	
2022.2.2	State Kit (v1.22)	08/29/23	<p><u>Urban Sheet Layout Updates</u> Priority: MEDIUM / Complexity: SIMPLE RD-Notes-Urban and RD-Lin&LevData-Urban sheet layouts require urban-specific default alterations.</p>	<p>Updates to urban RD-Notes-Urban and RD-Lin&LevData-Urban layouts made to include urban specific information.</p>	<p>C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Notes.dwg (updated)</p>	

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2022.2.2	State Kit (v1.22)	08/29/23	<p><u>User Folders (User Tools Folders) (User Tool Palette)</u> Priority: HIGH / Complexity: MODERATE Users can't create tool palette tools without being wiped on updates. Users need folders to store personal tools out of reach of the State Kit updater.</p>	<p>User path to be: C:\MDOH\StateKit\User</p> <p>Default subfolders: \User\Assemblies \User\Blocks \User\Toolpalette \User\Tools</p> <p>1. Edit C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDTStatekit.txt to add "User" Section. 2. Set "do not overwrite" = TRUE 3. Pre-build starter palettes in \Toolpalette\Palettes folder. 4. Add a simple readme file to each folder with instructions on adding content. 5. MDTPalette-User command 6. Button on "MDT Groups" palette tab to set tool palette path to user palettes 7. Button on User "Main" tab to open documentation 8. User documentation</p>	<p>C:\MDOH\StateKit\Civil 3D\User (new) C:\MDOH\StateKit\Civil 3D\User\README.pdf (new) C:\MDOH\StateKit\Civil 3D\User\Assemblies (new) C:\MDOH\StateKit\Civil 3D\User\Assemblies\README.pdf (new) C:\MDOH\StateKit\Civil 3D\User\Blocks (new) C:\MDOH\StateKit\Civil 3D\User\Toolpalette (new) C:\MDOH\StateKit\Civil 3D\User\Tools (new) C:\MDOH\StateKit\Civil 3D\User\ToolPalette\AcTpCatalog.atc (new) C:\MDOH\StateKit\Civil 3D\User\Toolpalette\README.txt (new) C:\MDOH\StateKit\Civil 3D\User\ToolPalette\Palettes (new) C:\MDOH\StateKit\Civil 3D\User\ToolPalette\Palettes\UserMain.atc (new) C:\MDOH\StateKit\Civil 3D\User\ToolPalette\Palettes\UserAssemblies.atc (new) C:\MDOH\StateKit\Civil 3D\User\ToolPalette\Palettes\UserBlocks.atc (new) C:\MDOH\StateKit\Civil 3D\User\ToolPalette\Palettes\UserTools.atc (new) C:\MDOH\StateKit\Civil 3D\User\ToolPalette\Palettes\Images (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Tools.VLX (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Settings.VLX (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDTStatekit.txt (updated) C:\mdoh\StateKit\Civil 3D\2022\Help\2022StateKit-UserPalettes.pdf (new)</p>	
2022.2.2	State Kit (v1.21)	05/12/23	<p>Typical Section Dimension Annotation Scale Priority: HIGH / Complexity: SIMPLE T-Dimensions block text is scaling with drawing scale adjustments.</p>	T-Dimensions block text set to no annotation.	<p>C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Typicals.dwg C:\mdoh\StateKit\Civil 3D\2022\Blocks\blocksMetadata*.*</p>	<p>Updated Updated Folder</p>
2022.2.2	State Kit (v1.21)	05/12/23	<p>R/W FHWA Approval and Revision Dates Priority: HIGH / Complexity: SIMPLE Sheet border approval and revision date attribute value text aligns beneath border text.</p>	Block attributes synced in right-of-way layouts template. Viewport adjustments intended with future update.	<p>C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt</p>	Updated
2022.2.2	State Kit (v1.21)	04/21/23	<p>"Summary" Title Text Priority: HIGH / Complexity: SIMPLE Summary title is required on the summary sheet.</p>	Set text height to be 0.240 and displaced 0.200' from the midpoint of the border and font to Arial bold italic in the template.	<p>C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt</p>	Updated
2022.2.2	State Kit	04/21/23	<<MDT>> AutoCAD profile updates	Annotation and tool palette paths were updated in	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT_2022.arg	Updated

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	(v1.21)		(MDT_2022.arg) Priority: HIGH / Complexity: SIMPLE <<MDT>> AutoCAD profile needs updates. 1. Need to account for new "Annotation" folder in profile. 2. Need to get "MDT Tools" tool palette to auto-load on MDT State Kit update.	the <<MDT>> profile.		
2022.2.2	State Kit (v1.21)	04/21/23	Add Various LISP Routines: Total Length of Multiple Lines and Polylines Priority: LOW Complexity: MODERATE A command is needed that will report the total length of multiple lines and polylines when selected.	See "Add Various LISP Routines"		
2022.2.2	State Kit (v1.21)	04/21/23	Add MDT North arrow to RD-Title and Standard Detail layouts Priority: HIGH / Complexity: SIMPLE The MDT North arrow should be added to the RD-Title layout so that Road Design can easily and consistently add the arrow to model space.	Placed the North arrow in the appropriate layouts	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt	Updated
2022.2.2	State Kit (v1.21)	04/21/23	Add Various LISP Routines (LISP DVIEW Twist Routine) Priority: LOW Complexity: MODERATE Rotate view functionality is desired. Total Length of Lines routine requested. Xref all off functionality is desired. Drawing clean routine is needed.	Write LISP code for requested functionality. Add commands to MDT2022Tools.VLX: Create new "MDT Tools" tool palette. Create buttons for each command on MDT Tools tool palette. MDTDVTW, MDTTLENGTH, MDTXLAYERSOFF, MDTXLAYERSON, MDTRESETXLAYERS, MDTRELOADXREFS, MDTUNLOADXREFS, MDTATTXREF, MDTDWGCLEAN, MDTPURGEALL Also cleaned up code and restructured the bundle folder to better accommodate future updates.	C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Tools\AcTpCatalog.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Tools\Palettes\10-MDT Tools.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Images[various] C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Tools.VLX C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\Tools\DWGClean.scr 2022StateKit-Gen.docx	New File New File New File Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Alignment Coordinate Table (Centerline Coordinate Table) Priority: HIGH / Complexity: SIMPLE Alignment table style needed for centerline alignment coordinate table.	Project explorer alignment settings and coordinate table files were developed to support creation of an alignment table with curve descriptions.	C:\mdoh\StateKit\Civil 3D\2022\Tools\Project Explorer\MDT Alignments.xmpt C:\mdoh\StateKit\Civil 3D\2022\Tools\Project Explorer\MDT Alignments.xmpa	New File New File
2022.2.2	State Kit	04/21/23	Apparent R/W Plan Notes	Block RW-EXRWNnote created for placement on	C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Notes.dwg	Updated

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	(v1.21)		Priority: HIGH / Complexity: SIMPLE A new process for apparent r/w requires notes on r/w and road plan sheets.	r/w plan sheets and N-ApparentRW block created for placement on road plan notes sheet. Block RW-EXRWNnote added to RW-Title, RW-Plan, RW-Ownership, and RW-Exhibit layouts.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt	Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Blank Start Template Layout Name Priority: LOW / Complexity: SIMPLE A layout must exist in every file. It isn't clear that "Layout1" can be deleted from a project design file if additional layouts are added.	"Layout1" was renamed to "MDT-TMP" (Montana Department of Transportation-Temporary).	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Block Drawings Insertion Units Value (Block Library INSUNITS) Priority: HIGH / Complexity: SIMPLE Drawing insertion units value is set to feet in EL-Plan, HY-Details, RD-Notes, RD-Typicals, RD-XS, and RW-Plan block libraries.	Update -block drawings to be INSUNITS = 0	C:\MDOH\StateKit\Civil 3D\2022\Blocks\EL-Plan.dwg C:\MDOH\StateKit\Civil 3D\2022\Blocks\HY-Details.dwg C:\MDOH\StateKit\Civil 3D\2022\Blocks\RD-Notes.dwg C:\MDOH\StateKit\Civil 3D\2022\Blocks\RD-Typicals.dwg C:\MDOH\StateKit\Civil 3D\2022\Blocks\RD-XS.dwg C:\MDOH\StateKit\Civil 3D\2022\Blocks\RW-Plan.dwg	Updated Updated Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Bundle README file Priority: HIGH / Complexity: SIMPLE MDTSK2022.bundle folder is increasing in number of files and complexity. There is a need to add a "read me" file to the Package Contents.	Created README.md file for MDTSK2022.bundle folder.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\ README.md	New File
2022.2.2	State Kit (v1.21)	04/21/23	Change default layer for Corridor from 0 to C-CRDR Priority: MEDIUM / Complexity: SIMPLE Corridors currently default to layer 0 when creating them or creating data references to one.	Layer C-CRDR with -* suffix was added as the object layer for the Corridor object.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-ObjectLayers-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Colors 7, 8, 9 Plotting Priority: MEDIUM / Complexity: SIMPLE Colors 7, 8, and 9 are plotting with color as displayed instead of black, inconsistent with the other primary colors.	MDT - Standard.ctb was updated to plot colors 7, 8, and 9 as black.	C:\mdoh\StateKit\Civil 3D\2022\Plotting\Plot Styles\MDT - Standard.ctb	Updated
2022.2.2	State Kit	04/21/23	Control Point Layers/Label Style	Label style for Control points created. The new	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Point-Ref.dwt	Updated

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	(v1.21)		Priority: HIGH / Complexity: SIMPLE Control points need to be used to develop the control traverse without text displayed.	label style MDT Point-Survey (Control) has been added.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Control Traverse Table Style Priority: HIGH / Complexity: SIMPLE A table style is needed for development of the control traverse table.	The Table Style for Control points "MDT Survey-(Control Abstract)" has been created.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Point-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Default MDT Tool Palettes Edits Priority: MEDIUM / Complexity: MODERATE Default MDT Tool Palettes need edits. Original 2022 MDT palette group included empty 'example' palettes that aren't being used. "MDT Settings" tab name does not accurately reflect content. Subassemblies palette group opens to "MDT Content" tab causing confusion.	Remove empty Design, Land, and Survey tool palettes Rename MDT Settings >> MDT Groups Remove "MDT Content" tab from MDT Assemblies and Subassemblies Palette Group	C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Annotation C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Content C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Groups C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Subassemblies 2022StateKit-Gen.docx C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Design C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Land C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Settings C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Survey	Updated Updated Updated Updated Deleted Deleted Deleted Deleted
2022.2.2	State Kit (v1.21)	04/21/23	Default Status Bar Settings (Default Settings and MDT Commands) Priority: MEDIUM / Complexity: SIMPLE Default status bar setting customizations are desired. 1) Turn on coordinate display by default (Status Bar). 2) Turn ON "Add scale to annotative objects when the annotation scale changes"	Add status bar settings to MDT2022Settings.VLX.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Settings.VLX	Updated
2022.2.2	State Kit (v1.21)	04/21/23	Dimstyles Template Folder Priority: HIGH / Complexity: SIMPLE State kit Dimstyles folder name doesn't accurately reflect content.	State kit "Dimstyles" folder was renamed to "Annotation". Corresponding LISP code for annotation commands updated.	C:\mdoh\StateKit\Civil 3D\2022\Dimstyles C:\mdoh\StateKit\Civil 3D\2022\Textstyles C:\mdoh\StateKit\Civil 3D\2022\Annotation C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX	Deleted Deleted New Folder Updated
2022.2.2	State Kit	04/21/23	Do Not Start for Templates	Added disclaimer note "DO NOT START DWG	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Point-Ref.dwt	Updated

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	(v1.21)		Priority: MEDIUM / Complexity: SIMPLE Reference template files may be misused as start templates for project files.	WITH THIS TEMPLATE, FOR REFERENCE USE ONLY” to all reference templates.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt	Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Environmental Survey Layers - Environmental Filter (Survey Wetland Layer - Environmental Filter) Priority: MEDIUM / Complexity: SIMPLE Layer V-WETL-BNDY-E and V-WWAY-OHWM-E need to be accessible for Environmental processes.	Layer V-WETL-BNDY-E and V-WWAY-OHWM-E are added to Environmental filter for easy access.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-LayerFilters.lft C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Layer States Manager Dialog Box Options (Layer State Restore Option) It is preferable to turn off option "Turn off layers not found in layer state".	Add registry setting turning this off during startup routine	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Settings.VLX	Updated
2022.2.2	State Kit (v1.21)	04/21/23	<u>Layers for R/W Parcel Shading</u> Priority: MEDIUM Layer(s) are needed for r/w parcels shading.	Layers RR-AREA-PMIT (color 55), RR-AREA-ESMT (color 35) , RR-AREA-RWAY-E (color 135), RR-AREA-RWAY (color 95), and RR-AREA-MISC (color 195) created for r/w parcel shading. RR-PMIT-LABL-T layer description revised to Resource R/W: Construction Permit: Label: Temporary and RR-PMIT-T to Resource R/W: Construction Permit: Temporary.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	MDT C3D Styles Coordination-Alignment Styles (MDT C3D Styles Coordination-Alignment Styles/Command Settings) Priority: HIGH / Complexity: COMPLEX Alignment styles have not been reviewed and set up to align with developed processes.		C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-ObjectLayers.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-AlnProfSuper-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated Updated Updated Updated New File Updated Updated
2022.2.2	State Kit	04/21/23	MDT C3D Styles Coordination-Section and	Section view style “MDT Typ Section” created	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt	Updated

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	(v1.21)		<u>Section View Styles/Command Settings-Typicals</u> Priority: HIGH Section View Style to support MDT typical section process is needed as well as typical block updates.	w/code set style name updated to "MDT Typ Section" Additionally, T-EndCondition-LT-CutDitch and T-EndCondition-RT-CutDitch blocks were updated to accurately reflect inslope conditions correctly and T-TablesQtyStaLabel to turn off title annotative state.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Typicals.dwg	Updated Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	MDT C3D Styles Coordination-Surface Styles/Command Settings Priority: HIGH / Complexity: MODERATE Surface styles have not been reviewed and set up to align with developed processes.	Rebuilt surface styles to display triangles, borders, contours for existing, rural, urban, and site surfaces. Object layer functionality is used to create unique layers for each surface and corresponding labels.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Surface-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt	New File Updated Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	MDT Commands: MDTADDLAYERS and MDTADDALLCOMPONENTS Priority: HIGH / Complexity: MODERATE 1) The MDT Standard layer state is not being deleted from drawings first when using the MDTADDSTANDARDLAYERSTATE command. This is causing layer property updates to fail. 2) Need to create a command to speed up adding components when building the State Kit start templates.	Create MDTDELSLS command to delete the standard layer state from a drawing. Add new MDTDELSLS command to MDTADDSTANDARDLAYERSTATE command. Re-order command code to delete standard layer state first. Rename command to MDTADDSLS. Create new command MDTADDALLLAYERS to add all default layers to a drawing. Create MDTADDALLCOMP command to add all State Kit AutoCAD components at once.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX 2022StateKit-Gen.docx	Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	MDT Parameter Reference Subassembly Priority: MEDIUM / Complexity: Moderate 1. Parameter Reference Subassembly parameter value display names need to be unique. 2. Parameter Reference Subassembly functionality is not complete. 3. Pre-built MDT assemblies need to be updated with revised Parameter Reference Subassembly 4. Pre-built MDT assemblies need to have Parameter Reference Subassembly re-ordered to place at outside 5. Profiles to Create Smooth Transitions in Corridors process needs to be summarized in Subassembly documentation. 6. Subassembly documentation needs to be updated with new functionality.	Recode Parameter Reference Subassembly parameter value display names Rebuild MDT Assemblies that use Parameter Reference Subassembly Update documentation	C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Widening.dwg C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_4_Lane.dwg C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_2_Lane.dwg C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Ramp.dwg C:\mdoh\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\20_MDT Subassemblies.atc C:\mdoh\StateKit\Civil 3D\2022\Assemblies\Subassemblies\MDT Parameter Reference.pkt C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\MDT_Subassembly_ParameterReference.png C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\5523b2fafe24b5f988a831e79c7d51f.xaml C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\5523b2fafe24b5f988a831e79c7d51f.pvd C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\5523b2fafe24b5f988a831e79c7d51f.emd C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\5523b2fafe24b5f988a831e79c7d51f.dll C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\5523b2fafe24b5f988a831e79c7d51f.cfg C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\5523b2fafe24b5f988a831e79c7d51f.atc C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference[Content_Types].xml 2022StateKit-Ass_SubAss.docx	Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated
2022.2.2	State Kit	04/21/23	MDT Ribbon GUI Code	Create framework folders/files/code for MDT	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Menu\MDT-TOOLS-2022.cuix	New File

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	(v1.21)		(Ribbon Code) Priority: HIGH / Complexity: MODERATE Several efficiency and maintenance tools need to be delivered to users as they become available.	ribbon Ribbon tabs should not be visible in the MDT Profile yet	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Menu\xaml_placeholder_ C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Menu\images\MDT_logo16.png C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Menu\images\MDT_logo32.png C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Menu\images\MDT_logo64.png	New File New File New File New File
2022.2.2	State Kit (v1.21)	04/21/23	MDTSidewalk Subassembly Properties Priority: MEDIUM / Complexity: MODERATE Point Code Parameter Value names for MDTSidewalk Subassembly have quotes, inconsistent from other point codes.	Edit PKT file Re-import subassembly PKT into state kit Update subassembly palette and images Edit MDT_Urban_2_Lane-Sidewalk.dwg	C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Sidewalk*. * C:\MDOH\StateKit\Civil 3D\2022\Assemblies\Subassemblies\MDT Sidewalk.pkt C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Images\MDT_Subassembly_Sidewalk.PNG C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg	Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Offset Lines from XREFS Priority: MEDIUM Need to offset lines from XREFs for R/W design.	Use LISP code for requested functionality. XROFF.lsp attached. Add MDTOFFXLINE command to MDT2022Tools.VLX: Create button for command on MDT Tools tool palette.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Tools\Palettes\10-MDT Tools.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Images\lisp.png C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Images\lisp_dk.png 2022StateKit-Gen.docx	Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Ordinary High Water Layer Priority: HIGH / Complexity: SIMPLE Layer for ordinary high water mark (OHWM) is a C- (civil design) layer and more appropriate as a V- (survey) layer.	V-WWAY-OHWM-E is added to house the linear ordinary high water mark. C-WWAY-OHWM is removed.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Photogrammetry Process Layer Filter Additional layers that are frequently used for Photogrammetry processes need to be more accessible.	Layer filter Survey Photo updated to include additional process V- layers with sub-filters for Photo Labels, Photo Surface, and Photo Symbols. Layers VA-GTIC-LABL-E and VA-CTRL-PASS-E deleted (not needed). New layers VA-CTRL-PASS-SYMB-E and VA-CTRL-PASS-NODE-E created.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-layers.lft C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Photogrammetry Title Block Priority: HIGH / Complexity: SIMPLE Photogrammetry title block is needed.	Created a Block library for Photo containing the required block.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\PH-Plan.dwg	Updated
2022.2.2	State Kit	04/21/23	Pipe Object Layers	Pipe object layers are updated to use CLVT	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-ObjectLayers-Ref.dwt	Updated

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	(v1.21)		Priority: LOW / Complexity: SIMPLE Pipe and Pipe-Labeling Object Layers are not set up properly.	layers: Pipe C-CLVT, Pipe-Labeling C-CLVT-LABL, Pipe and Structure Table X-MISC-TABL, Pipe Network Section C-CLVT, and Pipe or Structure Profile C-PROF-CLVT	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	
2022.2.2	State Kit (v1.21)	04/21/23	R/W Label Styles Priority: MEDIUM / Complexity: MODERATE Label and dimension styles are needed for annotating acquisition.	R/W callout alignment label and dimension styles are added.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-AlnProfSuper-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Annotation\Dimensions.dwg	Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	R/W Layout Updates Priority: MEDIUM / Complexity: MODERATE R/W sheet layouts need additional standard data added or made available to add.	State plane coordinate, r/w retracement, access control, and ASCII files note blocks created. State plane coordinates, r/w retracement, access control, ASCII files, plan/exhibit sheet notes, exhibit legend, exhibit stamp, and exhibit parcel/sheet notes added to layouts. FHWA/MDT Approval fields added for all layouts. R/W-Exhibit-Railroad-Title layout added. Construction limit cut/fill line styles added to the legend and project length added to the title sheet project information.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt	Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	RD Notes Layout Blocks Priority: MEDIUM RD-Notes.dwg block library doesn't contain all notes blocks.	The additional road plan notes blocks have been added to the block library RD-Notes.dwg and notes blocks updated to use layer GS-NOTE and GS-TITL, as appropriate. Block insertion points were edited to facilitate consistent placement on the RD-Notes layout using the node object snap or alternate object snaps. New layer GS-ANNO was added to facilitate future needs and GS-TITL description was updated to better reflect it's use.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Notes.dwg C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt	Updated Updated Updated Updated Updated Updated Updated Updated
2022.2.2	State Kit	04/21/23	RD-Title Layout Visibility State	Block C-ProjectHeading was replaced in the RD-	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt	Updated

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	(v1.21)		Priority: LOW / Complexity: SIMPLE RD-Title layout when created from the Road Layouts tool palette shows the RIGHT OF WAY PLAN visibility state. When the layout is created from a template by right clicking the layouts and navigating to the _Road-Layouts.dwt, it shows the FEDERAL AID PROJECT visibility state.	Title layout sheet.		
2022.2.2	State Kit (v1.21)	04/21/23	Reference Template Names Priority: HIGH / Complexity: SIMPLE Reference templates aren't grouped by type in the file explorer.	Reference templates serve 1 of 2 purposes as a reference or group reference template. Added _MDT- as a prefix to the names so the templates sort together for management.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-AlnProfSuper-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Point-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-DgnLineType-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Surface-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-ObjectLayers-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Electrical-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Geometrics-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Hydraulics-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Signing-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Standard-Detail-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Survey-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Utilities-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pln-layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pln-layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pro-layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Pro-Pro-layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\XS-layouts.dwt 2022StateKit-Gen.docx	Renamed Renamed Renamed Renamed Renamed Renamed Renamed Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Section View Group Plot Style Priority: LOW / Complexity: SIMPLE Section View > Group Plot style "PLN Section Sheet Layout" needs a column space between adjacent section views.	Adjusted column gap and row gap.	C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt	Updated
2022.2.2	State Kit (v1.21)	04/21/23	Separate Reference Template for Object Layers Priority: HIGH / Complexity: SIMPLE Object layer settings changes are not automatically updating through the multiple reference template chain to the start templates. When layers are modified/added/deleted, object layer settings must be manually updated in each template.	Create a settings only reference template that contains only object layer settings and directly load into the start templates. Then only one file will need to be updated when changes are made to object layers.	C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\MDT-ObjectLayers.dwt C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt	Updated Updated Updated Updated Updated Updated
2022.2.2	State Kit	04/21/23	Storm Inlet and Surface ByLayer Colors	ByLayer color updated to yellow (color 52) for	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg	Updated

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
	(v1.21)		Priority: MEDIUM / Complexity: SIMPLE C-SURF-BNDY should be yellow and layer V-STRM-INLT-SYMB-E should be blue.	layer C-SURF-BNDY and blue (color 160) for layers V-STRM-INLT-SYMB-E and V-STRM-INLT-NODE-E.	C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Point-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Subassembly Depths - Lane Priority: MEDIUM / Complexity: SIMPLE Subassembly depths require updates per MDT standards and consistency.	Edit values for LaneSuperelevationAOR subassembly default settings on tool palette. Edit each lane subassembly values in the assembly drawings.	C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc C:\MDOH\StateKit\Civil 3D\2022\Assemblies*.dwg	Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Subassembly Depths-Shoulder (Assembly/Subassembly Depths) Priority: MEDIUM / Complexity: SIMPLE Subassembly depths require updates per MDT standards and consistency.	Edit values for MDT Shoulder subassembly default settings on tool palette. Edit each shoulder subassembly values in the assembly drawings. Edit MDT Shoulder.pkt Reimport PKT file into State Kit	C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc C:\MDOH\StateKit\Civil 3D\2022\Assemblies*.dwg C:\MDOH\StateKit\Civil 3D\2022\Assemblies\Subassemblies\MDT Shoulder.pkt C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Shoulder*.*	Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Survey Description Keys for Design Priority: HIGH / Complexity: SIMPLE Processing survey points for design processes requires access to description keys and aren't included in the design-start.dwt template.	Description keys have been added to design-start.dwt template.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated
2022.2.2	State Kit (v1.21)	04/21/23	Survey Symbols Layer Filter Priority: HIGH / Complexity: SIMPLE Survey Symbols Layer Filter doesn't display any layers.	Survey Symbols layer filter was updated to display all *-SYMB-E layers.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated Updated
2022.2.2	State Kit	04/21/23	survey-start.dwt/land-start.dwt	Land-start.dwt and land-group.dwt are deleted.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Deleted

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	(v1.21)		Priority: LOW / Complexity: SIMPLE Survey-start.dwt and Land-start.dwt are one in the same.	All engineering and cadastral survey work is supported in survey-start.dwt.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt 2022StateKit-Gen.docx (MDT Civil 3D State Kit Overview)	Deleted Updated
2022.2.2	State Kit (v1.21)	04/21/23	Thumbnail/Icon Image Consolidation Priority: MEDIUM / Complexity: MODERATE As custom palettes and ribbon tabs are built out, the State Kit will amass a large quantity of image files for thumbnails and icons. . When palette tools are created, four thumbnail images (small and large versions for both dark and light UI interfaces) are created for each tool. Creating custom icons for tools also adds to the overall quantity of image files.It is likely that the State Kit could end up with a collection of thousands of images over time. Current Autodesk/State Kit folder structure stores these images in several locations making them difficult to maintain. This can lead to duplicates and unnecessary files. The large quantity of images can lead to slower loading, startup, and installation time.	Created "C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Images" Pathed all existing tool palette thumbnails to this folder.	C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Images<various>	New
2022.2.2	State Kit (v1.21)	04/21/23	Tool Palette Resources Priority: MEDIUM / Complexity: SIMPLE Tool Palette resources are not complete. Links need to be updated on MDT Content Tool Palette tab.	Add links to MDT Content Tool Palette tab.	C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\10_MDT Content.atc	Updated
2022.2.2	State Kit (v1.21)	04/21/23	Typical Layout Border State Priority: MEDIUM / Complexity: SIMPLE Horizontal split is required for typical sheets.	Set "Split Horizontal" visibility state in RD-Typical template.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_MDT-RoadLayouts.dwt	Updated
2022.2.2	State Kit (v1.21)	04/21/23	Utility Label Styles Priority: MEDIUM / Complexity: SIMPLE Label style is needed for annotating utilities.	Alignment station offset label style "MDT UTIL-Station and Offset" developed.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-AInProf-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated Updated Updated
2022.2.2	State Kit	04/21/23	Utility Plan Title Sheet Legend	Block RW-Legend-Plan updated, UT-Legend-	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt	Updated

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	(v1.21)		Priority: HIGH / Complexity: SIMPLE Utility plan title sheet legend requires utility features to be included.	Plan created and updated/located in RW-Title and UT-Title layouts. Also removed the engineer seal from UT-Title layouts.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Utilities-Layouts.dwt	Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Viewport Layer No Plot Priority: HIGH / Complexity: SIMPLE View port frames are plotted.	Layers GS-VFRM and GS-VPRT were updated to not be plottable.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\MDT-ObjectLayers.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated
2022.2.2	State Kit (v1.21)	04/21/23	Bentley Layer Translator - Survey Priority: MEDIUM / Complexity: MODERATE Files converted from DGN to DWG are not appropriately mapping Bentley levels to new Civil3D layer names for Survey Data.	In Civil3D the layer translator tool is found under the Manage tab in the CAD standard panel. (The Layer translator allows you to quickly and easily map the layer that you are bringing in from an outside source and then give it all the properties that you are accustomed to in your layers.) We have taken the custom data from the Bentley workspace regarding survey and developed a layer translator that maps this data appropriately to the Civil3D format.	C:\mdoh\StateKit\Civil 3D\2022\Tools\Layer Translators\MDT Survey.dws	New File
2022.2.2	State Kit Tools	04/21/23	MSI for 3rd Party Tools Priority: MEDIUM / Complexity: MODERATE 3rd Party Tools are delivered externally in a zip file. The zip file requires users manual steps to install the tools which can introduce errors and issues with blocked files.	An .exe file has been created and can be downloaded for installation making this effort less prone to error and easier for users and enterprises to install.	MDTStateKitTools2022-2023.zip MDTStateKitTools2022-2023.zip\MDTStateKitTools2022-2023.exe	Updated New File
2022.2.1	State Kit (v1.20)	12/02/22	Corridor Daylight Line - Cut Feature Line Style Priority: HIGH Cut construction limits display as a solid line.	Corridor Daylight Line - Cut Feature Line Style line type was updated to MDT_Style2.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	Updated Updated Updated Updated Updated Updated
2022.2.1	State Kit	12/01/22	Assembly/Subassembly Information Event Errors	Construction Assembly Properties were opened	C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Ramp.dwg	Updated

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	(v1.20)		Priority: HIGH Event error "Macro file not found at original path specified in subassembly..." occurs when using assemblies from the MDT Assemblies tool palette.	and saved for all assembly files.	C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_2_Lane.dwg C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_4_Lane.dwg C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_Divided.dwg C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Widening.dwg	Updated Updated Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Block Loading</u> Priority: MEDIUM Blocks load slowly or not at all in the blocks palette.	Blocks not loading at all may be due to permissions/security in some environments. Block library metadata was seeded in state kit to aid users having block loading issues.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\blocksMetadata	New File
2022.2.1	State Kit (v1.20)	12/01/22	<u>Bureau Chief Stamps</u> Priority: MEDIUM Seal updates are needed for Preconstruction Engineer (Ryan Dahlke), Consultant Design Engineer (Kelly Williams), and Bridge Engineer (Andin Cullison).	Seal updates made for new Preconstruction Engineer, Consultant Design Engineer, and Bridge Engineer.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\sheet-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Electrical-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Signing-Layouts.dwt	Updated Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>ByLayer Attribute Assignments</u> Priority: HIGH ByLayer line type, weight, and color assignments need to be updated.	Layers were updated with linetype, weight, and color assignments closely matching standards from Bentley workspace.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\sheet-ref.dwt	Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Correction to Electrical Type 10-A Luminaire Standards Detail Drawing</u> Priority: MEDIUM Correction to Type 10-A Luminaire Standards detail mast arm connection note is needed.	Luminaire Standard mast arm connection note in block EL-LS edited from FOR ARMS BETWEEN 6 FT. AND 25 FT. IN LENGTH, USE AN 11" SQUARE PLATE WITH A BOLT SPACING OF 9 IN. VERTICAL AND 9" HORIZONTAL to FOR ARMS BETWEEN 16 FT. AND 25 FT. IN LENGTH, USE AN 11" SQUARE PLATE WITH A BOLT SPACING OF 9 IN. VERTICAL AND 9" HORIZONTAL	C:\mdoh\StateKit\Civil 3D\2022\Blocks\EL-Standard Details.dwg C:\mdoh\StateKit\Civil 3D\2022\Blocks\blocksMetadata	Updated New File
2022.2.1	State Kit	12/01/22	<u>Design Criteria File</u>	Consult links in card for criteria data.	C:\ProgramData\Autodesk\C3D 2022\enu\Data\Corridor Design Standards\Imperial\...	

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	(v1.20)		Priority: HIGH Design criteria file needs to be updated.		__Montana DOT Design Standards.xml	Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Ditch Layers</u> Priority: MEDIUM A survey ditch layer is needed for non-roadside ditches, e.g. irrigation.	Added layer V-IRRG-DTCH-E. No description key or figure prefix database edits included due to no corresponding survey feature code.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Electrical Detail Updates (2A, 3A Signal Standards and others)</u> Priority: MEDIUM Electrical detail updates for 2A & 3A Signal Standards as well as minor revision to anchor bolt spec and A36 plate dimension required.	Signing details were updated.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\EL-Standard Details.dwg	Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Electrical FLOWFILL Block Update</u> Priority: MEDIUM Previous detail didn't distinguish between two allowable specifications for CLSM, and did not require the plant mix patch to be full depth in thicker road sections where the pavement is greater than 4". Update made in coordination with Geotech/Pavement Analysis.	Text in FLOWFILL block was updated.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\EL-Plan.dwg	Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Engineer Seal Block</u> Priority: MEDIUM Errant line displaying in engineer seal.	Errant line was deleted.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\sheet-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Electrical-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Signing-Layouts.dwt	Updated Updated Updated Updated
2022.2.1	State Kit	12/01/22	<u>Existing vs. New Layer Names</u>	All MDT layers were updated to eliminate the -N	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg	Updated

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	(v1.20)		Priority: HIGH Layer names for new, a.k.a. proposed, features are appended with N and layer names for existing features have no designation.	suffix and existing layers to have a -E suffix to agree with common industry application.	C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwg C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\sheet-ref.dwt C:\ProgramData\Autodesk\C3D 2022\enu\Survey\MDT Figure Prefix Database.fdb_xdef	Updated Updated Updated Updated Updated Updated Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Grading Palette Tabs</u> Priority: MEDIUM Grading palette tabs are lost after applying MDT Settings > MDT Palette Groups buttons to filter palette options.	Lisp code added to look for and load Groundforce palette tabs if they exist.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX	Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Layer Filters</u> Priority: MEDIUM Layer filters are needed for discipline process filtering.	Environmental, Geometrics, Hydraulics, Road, Signing layer filters were added as well as Survey and Land Survey sub layer filters.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-layers.lft C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Layer Naming Convention Documentation</u> Priority: MEDIUM Documentation to communicate layer naming convention is needed.	Layer naming information was added to MDT Civil 3D State Kit Overview document linked from the MDT Content tool palette tab or the MDT Engineering Apps & Resources web site.	N/A	
2022.2.1	State Kit (v1.20)	12/01/22	<u>Layers for Vehicle Tracking</u> Priority: MEDIUM Layers needed for vehicle tracking data, mountable curb design, landscape obliteration, and sidewalk pavement obliteration.	Layers were added for a variety of vehicle type paths (VPTH), mountable curb, landscape obliteration, and sidewalk pavement obliteration as well as edits to curb layer names for clarity.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated Updated
2022.2.1	State Kit	12/01/22	<u>Line Type Descriptions: MDT_TV_OH_E</u>	MDT_TV_OH_E line type description was	C:\mdoh\StateKit\Civil 3D\2022\Linetypes\linetypes.dwg	Updated

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	(v1.20)		Priority: LOW MDT_TV_OH_E line type description has erroneous underground reference.	updated from from "TV - Underground - Existing" to "TV - Overhead - Existing".	C:\mdoh\StateKit\Civil 3D\2022\Linetypes\MDT_Linetypes.lin	Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>MDT Assembly and Subassembly User Guide</u> Priority: MEDIUM MDT Assembly and Subassembly User Guide isn't available.	MDT Assembly and Subassembly User Guide has been developed and available via the MDT Content tool palette tab or the MDT Engineering Apps and Resources website.	N/A	
2022.2.1	State Kit (v1.20)	12/01/22	<u>OLEFRAME Variable</u> Priority: LOW OLEFRAME variable is set to 2 (Frame is displayed but is not plotted).	OLEFRAME variable set to 1 (Frame is displayed and is plotted) in MDT start templates.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Plan Layouts for R/W</u> Priority: MEDIUM Plan sheet layouts are needed with r/w borders for creating sheet view frames.	Added layouts with RW border block *B-BorderRW_11x17* to Pln-layouts.dwt.	C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pln-layouts.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Plot/No Plot Layers</u> Priority: MEDIUM The layer "C-XSEC-LABL" is set to not plot in the layer manager.	Plot was turned on for layer C-XSEC-LABL.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Profile Object Layer</u> Priority: MEDIUM Need a profile object layer assigned.	Layer C-PROF was assigned as the Profile Object layer.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	Updated Updated Updated Updated Updated Updated Updated
2022.2.1	State Kit	12/01/22	<u>Project Design Data</u>	Edited attributes in *C-ProjectDesignData* block.	C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\sheet-ref.dwt	Updated

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	(v1.20)		Priority: LOW Tag DY1 and V1 Prompt entry errors - "Designt Year" and "Vehicles" to "Velocity".	Reloaded sheet-ref.dwt into _Road-Layouts.dwt.	C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Remove Import MDT Description Key Set Palette Button</u> Priority: LOW Import MDT Description Key Set palette button isn't necessary.	Import MDT Description Key Set palette button removed eliminating extra file management. Also removed point-ref.dwg, desc-keys.dwg, and MDT-DKS.csv from State Kit.	C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Settings\Palettes\10-MDT Settings.atc	Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Road Design Title Sheet Layout Visibility State</u> Priority: MEDIUM Road Design Title Sheet project information block is defaulted to the Right-of-Way visibility state.	Road Design Title Sheet project information block was defaulted to Federal Funding visibility state.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Skew Diagram CL Symbol</u> Priority: MEDIUM The Center Line symbol in the Skew Diagram found on the notes page of a plan set is not displaying properly in Civil 3D.	Text with Center Line symbol was edited to multi-line text to allow the CL symbol to display.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Survey DTM Layer Filter</u> Priority: HIGH Layer filter is needed for surface creation.	Survey sub filter "Survey DTM Surface" was added.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-layers.lft C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Survey Feature Codes</u> Priority: HIGH Miscellaneous MDT Figure Prefix Database and MDT Description Key survey feature code settings are incomplete or erroneous.	MDT Figure Prefix Database and MDT Description Key survey feature codes were updated.	C:\ProgramData\Autodesk\C3D 2022\enu\Survey\MDT Figure Prefix Database.fdb_xdef C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	Updated Updated Updated Updated Updated Updated Updated Updated

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
					C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-layers.lft	Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Survey MDT Point Label Style</u> Priority: HIGH "MDT Point Label" Label Style doesn't display survey points as desired.	Survey point label styles were built out with color edits to display text format stacked and size smaller, culvert points without overlapping text, and alpha point names.	C:\ProgramData\Autodesk\C3D 2022\enu\Survey\MDT Figure Prefix Database.fdb_xdef C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-layers.lft	Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Survey Non-DTM Point Group Exclusion</u> Priority: HIGH Point group exclusions need edits for survey surface creation.	Non-DTM point group was removed and MDT Survey-DTM point group created for survey surface creation.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Survey Point Groups</u> Priority: HIGH Point Groups are needed for existing ground creation. A "no display" Point Group is needed.	MDT Survey-DTM and _MDT No Display point groups created.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Survey Point Layers</u> Priority: HIGH Certain survey points process on the object layer and others on the node and object layer.	Point Styles and Description Key Sets were updated to process the default point and text on unique node layers.	C:\ProgramData\Autodesk\C3D 2022\enu\Survey\MDT Figure Prefix Database.fdb_xdef C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	Updated Updated Updated Updated Updated Updated Updated Updated Updated

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Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
					C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-layers.lft	Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Survey Point Styles</u> Priority: LOW MDT CATGRD Point Style is no longer needed.	The MDT CATGRD Point Style removed.	C:\ProgramData\Autodesk\C3D 2022\enu\Survey\MDT Figure Prefix Database.fdb_xdef C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	Updated Updated Updated Updated Updated Updated Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Survey Start Template Scale</u> Priority: LOW Survey-start.dwt template annotation scale at 1"=20' displays points and labels too large.	Survey-start.dwt and land-start.dwt scales were updated to 1"=10'.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated Updated
2022.2.1	State Kit (v1.20)	12/01/22	<u>Typical Section Dimension Style/Block Height</u> Priority: HIGH Typical section and quantity frame don't fit vertically within the sheet border.	Typical section block and dimension styles revised. Other dimension styles were renamed for consistency.	C:\mdoh\StateKit\Civil 3D\2022\Dimstyles\Dimensions.dwg C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Typicals.dwg C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Blocks\blocksMetadata	Updated Updated Updated Updated Updated New File
2022.2.1	State Kit (v1.20)	12/01/22	<u>Typical Section Side Slopes</u> Priority: HIGH Typical section side slope blocks are needed.	T-EndCondition blocks updated to include side slopes.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Typicals.dwg	Updated
2022.2.1	State Kit	12/01/22	<u>Typical Sections Skeleton Code Set Style</u>	Typical section code set style name was edited to	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated

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	(v1.20)		<u>Markers Display</u> Priority: HIGH Typical Sections Skeleton Code Set style displays markers.	MDT Typ Sec and display style was set to _No Markers for all points.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	Updated Updated Updated Updated Updated Updated
2022.2.1	Updater (v2022.0.1.9)	10/07/22	MDT State Kit Updater .atc file access errors occur at times when updating the state kit.	MDT State Kit Updater was updated to remove read-only properties from palette .atc files before copying state kit updates.	Installer file: MDT StateKit Updater.msi Installed files location: C:\Program Files\MDT\MDT StateKit Updater*.*	Updated New Files
2022.2.1	State Kit (v1.19.01)	10/07/22	<u>MDT Drainage Catalog Inlet-Outlets Parts Links</u> Priority: HIGH Pipe end sections are being substituted with a null structure rather than placing the expected end section.	Inlet-Outlet .xml file links were updated.	C:\ProgramData\Autodesk\C3D 2022\enu\Pipes Catalog\MDT Drainage Catalog\Inlet-Outlets**All Files** C:\ProgramData\Autodesk\C3D 2022\enu\Pipes Catalog\MDT Drainage Catalog\Inlet-Outlets\... MDT Large Diameter Concrete Flared End Section.xml MDT RCP Headwall.xml MDT Type A Concrete Flared End Section.xml MDT Type B Concrete Flared End Section.xml	Deleted Updated Updated Updated Updated
2022.1.3	State Kit (v1.19)	06/27/22	Error results when processing alpha numeric/numeric alpha survey points: Invalid characters found in input string 'A####'. Error parsing value in line ###:	"MDT - Point Name" Point File Format developed without Comment Tag.	C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated File Updated File Updated File
2022.1.3	State Kit (v1.19) MDT State Kit Tools	06/27/22	A method for processing extended attributes for double coded survey points is needed. Double coded points result in command line error when running the extended attributes.	MDT State Kit Tools updated and files relocated for reliable performance.	C:\MDOH\StateKit\Civil 3D\2022\Tools\Survey*. * C:\Program Files\Autodesk\AutoCAD 2022\C3D*. * C:\Program Files\Autodesk\AutoCAD 2022\C3D\AeccSurveyImportTools.dll C:\Program Files\Autodesk\AutoCAD 2022\C3D\MDT Survey Import.dll C:\Program Files\Autodesk\AutoCAD 2022\C3D\MDT Survey Import.dll.config C:\Program Files\Autodesk\AutoCAD 2022\C3D\MDT Survey Import.pdb C:\ProgramData\Autodesk\C3D 2022\enu\Data\ToolBox\ToolboxCfg_SurveyTools.xml	Moved From Moved To New Deleted Deleted Deleted Updated
2022.1.3	Updater (v2022.0.1.8)	06/27/22	Updates needed to report Update Pending version and correct Installed Version reporting upon refresh. Updates needed to ensure all files are unzipped and copied to correct blank palette icons.	MDT State Kit Updater updated.	Installer file: MDT StateKit Updater 2022.0.1.8.msi Installed files location: C:\Program Files\MDT\MDT StateKit Updater*. *	New File New Files
2022.1.3	Updater	05/20/22	Need a mechanism to update and distribute MDT	Built MDT StateKit Updater application.	Installer file: MDT StateKit Updater 2022.0.1.5.msi	New File

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Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
	(v2022.0.1.5)		Civil 3D State Kit file to internal user machines and external consultants. Need to allow for non-admin users to be able to install and update State Kit.		Installed files location: C:\Program Files\MDT\MDT StateKit Updater*.*	New Files
2022.1.3	State Kit (v1.19)	06/27/22	Need to re-build State Kit file directory structure to work with MDT StateKit Updater application.	Created new directories, and moved and modified locations of various C3D files from admin directories to user accessible directories.	C:\MDOH\StateKit\Civil 3D\ C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\ C:\ProgramData\Autodesk\C3D 2022\enu\Pipes Catalog\ C:\ProgramData\Autodesk\C3D 2022\enu\Survey\	New Directory New Directory Modified Directory Modified Directory Modified Directory
2022.1.3	State Kit (v1.19)	06/27/22	Need to create State Kit content directory structure to allow "plug and play" update capability for current and future C3D versions.	Created C:\MDOH\StateKit\Civil 3D\ directory.	C:\MDOH\StateKit\Civil 3D\ C3D 20xx folder(s) *.*	New Directories
2022.1.3	State Kit (v1.19)	06/27/22	Need to convert and/or migrate C3D 2021 State Kit content directories to work with C3D 2022 and create new C3D 2022 State Kit content directories to work in combination with new updater application.	Converted, migrated, and created content directories for C3D 2022.	C:\MDOH\StateKit\Civil 3D\2022*.*	New Directories
2022.1.3	State Kit (v1.19)	06/27/22	Need to create mechanism to allow for C3D startup customizations and custom C3D tools and scripts to be developed and implemented.	Created MDTSK2022.bundle.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle*.*	New Directory
2022.1.3	State Kit (v1.19)	06/27/22	Need C3D startup customizations and custom scripts.	Created MDT profile and Desktop C3D shortcut. Created custom AutoLISP routines.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\Civil 3D 2022 Montana.Ink C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT_2022.arg C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Settings.VLX C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX	New File New File New File New File
2022.1.3	State Kit	06/27/22	Need to create mechanism for accessing custom	Created custom MDT tool palette set.	C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\	New Directory

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Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
	(v1.19)		MDT C3D tools and content.		C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Design\Palettes\10_MDT_Design_Main.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Land\Palettes\10_MDT_Land_Main.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Settings\Palettes\10-MDT Settings.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Sheets\Palettes\10_MDT_Sheets_Main.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Sheets\Palettes\20_MDT Page setups.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Sheets\Palettes\30_MDT Text style.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\10_MDT Content.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\20_MDT Subassemblies.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\30_MDT Assemblies.atc C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Survey\Palettes\10_MDT_Survey_Main.atc C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX Various thumbnail images & application files in Toolpalette\ directories	New File New File New File New File New File New File New File New File New File New File New File New Files
2022.1.3	State Kit (v1.19)	06/27/22	Need to create and/or modify custom subassemblies to build corridors that conform to MDT standards and practices.	Created MDT Curb and Gutter, MDT Daylight, MDT Parameter Reference, MDT Shoulder, MDT Shoulder Sub, MDT Sidewalk, and Numeric Control Line subassemblies.	C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Curb and Gutter*. * C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Daylight*. * C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference*. * C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Shoulder*. * C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT ShoulderSub*. * C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Sidewalk*. * C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\Numeric Control Line*. *	New Files New Files New Files New Files New Files New Files New Files
2022.1.3	State Kit (v1.19)	06/27/22	Need to create subassembly export PKTs	Created PKT files for each custom MDT subassembly	C:\MDOH\StateKit\Civil 3D\2022\Assemblies\Subassemblies*.pkt	New Files
2022.1.3	State Kit (v1.19)	06/27/22	Need to create custom Assemblies with MDT subassemblies and presets.	Created assembly drawings.	C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Ramp.dwg C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_2_Lane.dwg C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_4_Lane.dwg C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_Divided.dwg C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Widening.dwg	New File New File New File New File New File New File
2022.1.3	State Kit (v1.19)	06/27/22	Need to convert and consolidate MicroStation and 2021 C3D and 2022 C3D block files.	Created Blocks\ directory and created new block libraries from MicroStation cells and 2021 C3D block files. Created new 2022 C3D blocks.	C:\MDOH\StateKit\Civil 3D\2022\Blocks\EL-Plan.dwg C:\MDOH\StateKit\Civil 3D\2022\Blocks\EL-Standard Details.dwg C:\MDOH\StateKit\Civil 3D\2022\Blocks\HY-Details.dwg C:\MDOH\StateKit\Civil 3D\2022\Blocks\RD-Notes.dwg C:\MDOH\StateKit\Civil 3D\2022\Blocks\RD-Typicals.dwg C:\MDOH\StateKit\Civil 3D\2022\Blocks\RD-XS.dwg C:\MDOH\StateKit\Civil 3D\2022\Blocks\RW-Plan.dwg C:\MDOH\StateKit\Civil 3D\2022\Blocks\SU-Cadastral Notes.dwg	New File New File New File New File New File New File New File New File
2022.1.3	State Kit	06/27/22	Need to convert 2021 C3D & AutoCAD	Created directories and files for dimstyles,	C:\MDOH\StateKit\Civil 3D\2022\Dimstyles\Dimensions.dwg	New File

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Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pln-layouts.dwt C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pln-layouts.dwt C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pro-layouts.dwt C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pro-Pro-layouts.dwt C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\XS-layouts.dwt	New File New File New File New File New File
2022.1.3	State Kit (v1.19)	06/27/22	Need to create new layer naming convention. Need to consolidate layers to better serve C3D workflows. Need to create specific layers for use with C3D styles.	New layer naming convention created. Layers organized by use and discipline. Layers/levels combined to create new layers.	C:\MDOH\StateKit\Civil 3D\2022\Layers\layers.dwg	New File
2022.1.3	State Kit (v1.19)	06/27/22	Need to recreate some Bentley linestyles for C3D that were not able to be recreated in AutoCAD LIN file.	Converted linestyles in Bentley and imported into AutoCAD reference template.	C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\dgn-linetype-ref.dwt	New File
2022.1.3	State Kit (v1.19)	06/27/22	Need to verify and update survey codes, point styles, and code settings for use with C3D 2022.	Added/removed/updated survey codes in Description Key Set and Figure Prefix database as required. Edited/created styles for use with codes. Created custom tool to add Description Keys to legacy survey files.	C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwg C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\desc-keys.dwg C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\MDT-DKS.csv C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX C:\ProgramData\Autodesk\C3D 2022\enu\Survey\MDT Figure Prefix Database.fdb_xdef	New File New File New File New File New File Updated File
2022.1.3	State Kit (v1.19)	06/27/22	Need to edit Linework Code Set to work with current MDT survey workflows.	Edited Linework Code Set file.	C:\ProgramData\Autodesk\C3D 2022\enu\Survey\MDT Linework.f2f_xdef	Updated File
2022.1.3	State Kit (v1.19)	06/27/22	Need file to load MDT standard survey database settings.	Added Survey User Settings File	C:\ProgramData\Autodesk\C3D 2022\enu\Survey\MDT Survey User Settings.usr_set	New File
2022.1.3	State Kit	06/27/22	Need to edit and develop various C3D styles for	Various surface, alignment, profile, profile view,	C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	New File

