MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2026.2	State Kit (2026.1.0)	07/29/26	Assemblies - Cross Section Centerline Surface Elevation Proposed Design Centerline surface elevation isn't included on cross sections.	Added MDT XS-Elevation-Design Label Style to Point LabelElevation in the following Code Sets Styles: _MDT-Subassembly All Codes, MDT-Corridor-Const Limits, MDT-Corridor-Design, MDT-Corridor-Plan, MDT-Section-Design, MDT-Section-Plan, MDT-Section-Plan Special, MDT-Typical, MDT-Typical-Mill_Fill, MDT-Typical Special. In the Assembly Properties > Right > Right-MDTLane-Lane, added "LabelElevation" to [P1] CL Pave 1 in the Default Input Value in all the assembly drawings. The label can be removed or edited as needed in the assembly properties.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Lane.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated)	
2026.2	State Kit (2026.1.0)	07/29/26	Subassembly | PKT File Name and Version The C:\mdoh\StateKit\Civil 3D\2024\Subassemblies folder path is not located when opening drawings created in Civil 3D 2024. Subassemblies update at times without user acknowledgement.	A new folder, C:\mdoh\StateKit\Civil 3D\2024\Subassemblies, has been added to the MDT State Kit 2026.1.0 housing unedited 2024 pkt files saved with Civil 3D 2026. Added subassemblies *_2.pkt copied from the most current subassemblies. Users can choose whether to switch to the 2026 subassembly versions or continue using the 2024 subassemblies, depending on project progress. If the project is still early in development, it is recommended to browse to C:\mdoh\StateKit\Civil 3D\2026\Subassemblies and update the subassemblies to the new subassembly *_2.pkt files. See the Managing Subassembly Reference Files PKT in a DWG and for Projects guide. If the project is further along, users can continue using the existing 2024 subassembly pkt files. In this case, they should use the "Update All Subassemblies" option.	C:\mdoh\StateKit\Civil 3D\2026\Subassemblies\Numeric Control Line_2.pkt (new) C:\mdoh\StateKit\Civil 3D\2026\Subassemblies\MDT ConnectSurfaceSlopeLinks_2.pk (new) C:\mdoh\StateKit\Civil 3D\2026\Subassemblies\MDT Curb & Gutter_2.pkt (new) C:\mdoh\StateKit\Civil 3D\2026\Subassemblies\MDT Cut Table_2.pkt (new) C:\mdoh\StateKit\Civil 3D\2026\Subassemblies\MDT DaylightSubbase_2.pkt (new) C:\mdoh\StateKit\Civil 3D\2026\Subassemblies\MDT DaylightWithSubbase_2.pkt (new) C:\mdoh\StateKit\Civil 3D\2026\Subassemblies\MDT Fill Table_2.pkt (new) C:\mdoh\StateKit\Civil 3D\2026\Subassemblies\MDT Lane_2.pkt (new) C:\mdoh\StateKit\Civil 3D\2026\Subassemblies\MDT OffsetOnSurfaceLink_2.pkt (new) C:\mdoh\StateKit\Civil 3D\2026\Subassemblies\MDT Shoulder_2.pkt (new) C:\mdoh\StateKit\Civil 3D\2026\Subassemblies\MDT Sidewalk_2.pkt (new) C:\mdoh\StateKit\Civil 3D\2026\Subassemblies\MDT SlopeToSurfaceLink_2.pkt (new) C:\mdoh\StateKit\Civil 3D\2026\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2026\Assemblies\MDT_Ditch_Block.dwg (updated) C:\mdoh\StateKit\Civil 3D\2026\Assemblies\MDT_Ramp.dwg (updated) C:\mdoh\StateKit\Civil 3D\2026\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2026\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2026\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2026\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg (updated)	
2026.2	State Kit (2026.1.0)	07/29/26	Startup Drawing Variable The MDTStartupVar is controlled by the MDT State Kit which forces the value to 2 and prevents users from setting a custom value. External users would like the ability to modify this variable themselves.	In the MDT2026-StartupSettings.vlx file, removed MDTStartupVar from the "Global MDT Drawing Variables" section and added the MDTStartupVar under the "Code Block for MDT Internal Settings" section in the MDT2026-StartupSettings.lsp file so it only runs on MDT machines.	%AppData%\\Autodesk\ApplicationPlugins\MDTSK2026.bundle\Content\MDT2026-Startup.VLX (updated)	
2026.2	State Kit (2026.1.0)	07/29/26	Tool Palettes - Display on Open MDT Start tool palette opens every time a file is opened causing users to repeatedly return to needed working palette or close.	Removed MDTPalettes from S::STARTUP.	%AppData%\Autodesk\ApplicationPlugins\MDTSK2026.bundle\Content\MDT2026-Startup.VLX (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2026.2	State Kit (2026.1.0)	07/29/26	Update Reference Templates Tool 2024 reference template paths may need to be updated for 2026 state kit pathing. Need to automate or semi-automate reference template path updating.	Added command: MDTUPDATEREFTEMPLATES. The “Repath Ref Templates” command was added in MDT Utilities on the MDT Tools tab of the MDT Ribbon.	%AppData%\Autodesk\ApplicationPlugins\MDTSK2026.bundle\Content\MDTExtension2026.dll (updated) %AppData%\Autodesk\ApplicationPlugins\MDTSK2026.bundle\Menu\MDT-Ribbon.cuix (updated)	
2026.2	State Kit (2026.1.0)	07/29/26	Express Tools EXPRESSTOOLS are not visible on the ribbon.	Loaded the EXPRESSTOOLS in the MDT2026-StartUpSettings.vlx	%AppData%\Autodesk\ApplicationPlugins\MDTSK2026.bundle\Content\MDT2026-Startup.VLX (updated)	
2026.2	State Kit (2026.1.0)	07/29/26	Default Annotation Scale List Prepopulate the default annotation scale list with only scales that MDT uses. Add correct MDT engineering scales when default scale list is added with the reset button.	Added commands: MDTRESETDESIGNSCALES and MDTRESETSURVEYSCALES Scales: 1"=1', 1"=10', 1"=20', 1"=30', 1"=40', 1"=50', 1"=60', 1"=100', 1"=200', 1"=300', 1"=400', 1"=500', 1"=1000', 1"=2000', 1"=3000', 1"=5000'	%AppData%\Autodesk\ApplicationPlugins\MDTSK2026.bundle\Content\MDT2026-Tools.VLX (updated) C:\MDOH\StateKit\Civil 3D\2026\Templates_Start-Dwg\design-start.dwt (updated) C:\MDOH\StateKit\Civil 3D\2026\Templates_Start-Dwg\survey-start.dwt (updated)	
2026.2	State Kit (2026.1.0)	07/29/26	Label Style MDT-LIN-WETL-E - Background Mask Border Gap The background mask when applying MDT-LIN-WETL-E label style to small wetland areas obscures the majority of the wetland shape.	The MDT-LIN-WETL-E label style border gap was edited from 0.025 to 0.005, reducing the masked area surrounding the WL symbol.	C:\mdoh\StateKit\Civil 3D\2026\Templates\Reference_MDT-General-Ref.dwt (updated)	
2026.2	State Kit (2026.1.0)	07/29/26	Code Set Styles - Duplicate Cross Section Labels Code set styles are placing duplicate labels on the cross sections.	Removed the label styles from the Daylight points in the MDT-Corridor-Design, MDT-Section-Design, and MDT-Section-Plan, and MDT-Section-Plan Special code set styles.	C:\mdoh\StateKit\Civil 3D\2026\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2026\Templates\Reference\survey-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2026\Templates\Reference\design-group.dwt (updated)	
2026.2	State Kit (2026.1.0)	07/29/26	MDT Arial Italic Text Style - No Italic When drawings are opened in DWG TrueView, notes or text that use the MDT Arial Italic text style do not appear in italic.	The MDT Arial Italic text style was recreated in the design-start.dwt. This fixed the corrupt style. To fix the issue in an existing drawing: Change the MDT Arial Italic text style to a different font, save, and change back to Arial Italic.	C:\mdoh\StateKit\Civil 3D\2026\Templates_Start-Dwg\design-start.dwt (updated)	
2024.4	State Kit (v2.3.1)	02/26/26	Code Set Styles - Table Codes Plan Display The Table_ codes display are not useful in the plan view (MDT-Corridor-Design and MDT-Corridor-Plan).	In Code Set Style MDT-Corridor-Design set the Link Style for Table_* (e.g., Table_Cut_1, Table_Fill_1, etc.) to _MDT-No Display and Label Style to <none>. In Code Set Style MDT-Section-Design set the Link Style for Table_* (e.g., Table_Cut_1, Table_Fill_1, etc.) to each code’s respective MDT style and Label Style to <none>.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated)	
2024.4	State Kit (v2.3.1)	02/26/26	Refresh All MDT Components - Layer Settings Removed The component tool “Refresh All MDT Components” on the MDT Tools ribbon removes all customized layer settings (display, freeze, lock, plot, color, linetype, transparency).	“Refresh All MDT Components” was updated to remove use of command MDTADDSLS and use MDTADDALLLAYERS command instead. This adds standard state kit layers that are missing from the drawing but does not remove layers with their customized settings. On the MDT Ribbon in the MDT Tools > Component Tools, the option previously labeled “Add Layers” has been renamed to “Add Omitted Layers”. Use the “Restore Layer Defaults” to restore standard state kit layer attributes and settings.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\MDT-Ribbon.cuix (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.3.1)	02/26/26	Code Set Styles - Unexpected Corridor Lines Missing links, points, and/or shapes in the code set styles is resulting in unexpected lines displaying on the corridors.	Updated all the Point Code Styles to include all links, points, and shapes.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated)	
2024.4	State Kit (v2.3.1)	02/26/26	Curb & Gutter & Sidewalk Subassembly - Top and Datum Links The Top and Datum links are missing in the Curb & Gutter and Sidewalk subassemblies.	Curb & Gutter.pkt - Added "Top" link codes to L1, L2, L3, L4 and L14 and added "Datum" link codes to L13 and L14. Sidewalk.pkt - Added "Top" link code to L11 and added "Datum" link code to L11. Shoulder.pkt - Removed "Top" link code from L5, it was redundant with L10.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Curb & Gutter.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Shoulder.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Sidewalk.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated)	
2024.4	State Kit (v2.3.1)	02/26/26	RD Notes Layouts - Incorrect Asphalt Cement Note The note for asphalt binder is still coming in as asphalt cement in the urban and rural RD Notes pages.	Update the RD Notes Sheets in both the urban and rural sheets with the current asphalt biinder notes block.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Road-Layouts.dwt (updated)	
2024.4	State Kit (v2.3.1)	02/26/26	_MDT-PNESO Structure Label Style - Lt/- Structure label style _MDT-PNESO offset displays with both a - sign and LT label for left structure points. The right structure points display with RT.	Structure label style _MDT-PNESO was updated to remove the offset - sign for left structure points.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Drainage-Ref.dwt (updated)	
2024.4	State Kit (v2.3.1)	02/26/26	Pipe Network Parts List - Applying _MDT-PNESO Structure Style When placing a null structure for labeling with the _MDT-PNESO label style, the structure style defaults to MDT-Null and must be edited to the corresponding _MDT-PNESO structure style.	Created _MDT-Multipurpose parts list including new MDT-PNESO structure with structure style defined as _MDT-PNESO.	C:\mdoh\StateKit\Civil 3D\2024\Drainage\MDT-Pipes Catalog\US Imperial Structures\MDT-Multipurpose\MDT-PNESO.dwg (new) C:\mdoh\StateKit\Civil 3D\2024\Drainage\MDT-Pipes Catalog\US Imperial Structures\MDT-Multipurpose\MDT-PNESO.xml (new) C:\mdoh\StateKit\Civil 3D\2024\Drainage\MDT-Pipes Catalog\US Imperial Structures\AeccSharedPropertyLists.xml (updated) C:\mdoh\StateKit\Civil 3D\2024\Drainage\MDT-Pipes Catalog\US Imperial Structures\US Imperial Structures.apc (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Drainage-Ref.dwt (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.3.1)	02/26/26	Traffic Investigations Templates and Blocks - Process Enhancements In the recent transition to Autodesk from Bentley some minor fixes need to be made to the drawing templates and blocks to function better for the workflow. Based on our 2/10 discussion, the following updates will need to be included in the upcoming MDT State Kit patch: - Review text on unpaved road block - Adjust speed graph range from 30–90 to 10–70 - Modify text offset on approach blocks to be farther away from edge or roadway - Reduce alignment label text size by 25% and shift placement higher on viewport. - Ensure profile (speed graph) lines print in color - Add frequently used sign blocks to the straight-line template	All items from the notes have been adjusted in the template files.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\TO-Blocks.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Traffic-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTTO_PlnSpeed.dwt (updated)	
2024.4	State Kit (v2.3.1)	02/26/26	HY-Details Block Library - Safety Slope End Section Update Hydraulics has made updates to the HY-Details.	The two old Safety Slope End Section detail blocks H-SAFETY_SLOPE_END_SECTION_RCP and SAFETY_SLOPE_END_SECTION_CSP_CSPA have been combined into one detail block H-SAFETY_SLOPE_END_SECTION.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\HY-Details.dwg (updated)	
2024.4	State Kit (v2.3.1)	02/26/26	_MDT-PNESO Structure Table Style - Headings, Lt/- _MDT-PNESO structure table style heading is “STRUCTURES” but intended application is for multipurpose uses where the heading may not fit and offset displays with both a - sign and LT label.	_MDT-PNESO structure table style heading is updated to display the pipe network name which can be edited from the Prospector. “POINT NUMBER/NAME” subheading updated to “POINT” for space constraints if used in plans. Offset properties were updated to remove the offset - sign for left structure points.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Drainage-Ref.dwt (updated)	
2024.4	State Kit (v2.3.1)	02/26/26	Pipe Network "Junction Structure without Frames" - Folder Duplicated Using pipe network structures sometimes creates a part folder named “Junction Structure without Frames”. “Junction Structures without Frames” part family structures aren’t options when placing structures.	The part catalog was regenerated (PARTCATALOGREGEN) validating all parts to correct discrepancies in the supporting files causing the “Junction Structure without Frames” folder creation.	C:\mdoh\StateKit\Civil 3D\2024\Drainage\MDT-Pipes Catalog\US Imperial Structures\AeccSharedPropertyLists.xml (updated) C:\mdoh\StateKit\Civil 3D\2024\Drainage\MDT-Pipes Catalog\US Imperial Structures\US Imperial Structures.apc (updated)	
2024.4	State Kit (v2.3.1)	02/26/26	ViewEditCorridorSection Command - Default Code Set The default code set style for corridor section views is _MDT-Default. Designers update this to MDT-Section-Design in each drawing to properly view corridor sections.	Changed the Corridor > Commands > ViewEditCorridorSection default code set style from _MDT-Default to MDT-Section-Design.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.3.0)	01/27/26	Alignment Dynamic Point Table Ditch/drainage alignments (hydraulics) are revised frequently. Current workflow requires station & offset labels referenced to the alignment and a separate table for coordinates. Need a tool to create a dynamic table with alignment station, offset and coordinates.	Created a structure style, label style, and table style for users to edit as needed. The pipe network "structures" may be used as placeholders to generate "structure" tables with the station and offset info. Structure Style: _MDT-PNESO Structure Label Style: _MDT-PNESO Structure Table Style: _MDT-PNESO	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Drainage-Ref.dwt (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	As-built Title Sheet Data Block Letting date, completion date, and project manager are added to the as-built title sheet. The information is repetitively typed out and is susceptible to inconsistencies.	Blocks CN-AsBuilt Note has been developed as a template for placement of as-built Letting Date, Completion Date, and Project Manager data. A second block, CN-AsBuilt Note 2, has been developed for placement of contractor, contract, field, and check data.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\CN-AsBuilt.dwg (new)	
2024.4	State Kit (v2.3.0)	01/27/26	Assembly - Rural 2 Lane - Lane Slope Correction The Lane 1 slope in the Left-MDTParameterReferences subassembly is set to -4% but should be -2%.	Changed the Default Input Value Lane 1 Slope in the Left-MDTParameterReferences subassembly from -4% to -2%.	C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Blocks for Geotechnical Boring and Soil Survey Boring Blocks are needed for Geotechnical Boring and Soil Survey Boring symbols to be used in the road plans.	Edited the V-Core block to match the Geotechnical boring symbol shown in the Soils Information note within the “Notes” sheet of the Road plans.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-PointSurvParc-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\10_MDT-PointBlocks.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\20_MDT-DKSSU.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\21_MDT-DKSXS.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\design-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\survey-group.dwt (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Block Layers and Fonts: RW-Plans Block layers don't follow layer naming convention or use Arial font.	Blocks were updated to use layer 0 and applicable color and linetype. Blocks were placed on the correct layers. All fonts were updated to use supported Arial text styles.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_RightOfWay-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Bundle Readme.md Content Outdated The content in the Readme.md file is not up to date. The file content will need to be updated often to keep up with changes in the State Kit updates.	Saved the Readme.md file as a new Readme.txt file in the same folder. Removed the “Contents” section and associated file details, along with the bundle version number. The updated Readme.txt file includes general information, the folder path, and support details.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\README.md (Deleted) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\README.txt (New)	
2024.4	State Kit (v2.3.0)	01/27/26	Code Set Style Legacy Cleanup Code set style “MDT-CST TBC Export - Top” isn’t used in any MDT workflow.	Code set style “MDT-CST TBC Export - Top” was deleted. Deleted related Feature Line Styles MDT-CRDR-Cut Slope and MDT-CRDR-Fill Slope. Also deleted Feature Line Styles MDT CRDR-Subgrade and MDT CRDR-Sublayer and deleted Link Style MDT-Curb-top due to no current use.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.3.0)	01/27/26	Earthwork Volume Report The rounding is shown different in the Earthwork Volume Report and the cross sections.	Updated the _MDT_Earthwork.xsl file in the State Kit. The new format will include information about the materials used for the volume calculations and the volumes will now be rounded to the “0”, but note that the rounding does not affect the calculation of the cumulative volumes. So, if the user was to recalculate the cumulative volumes using the rounded numbers there will be a difference.	C:\ProgramData\Autodesk\C3D 2024\enu\Data\Quantities Report Style Sheets\xsl_MDT_Earthwork.xsl	
2024.4	State Kit (v2.3.0)	01/27/26	Emulsified Asphalt Tack - Typical Section Quantities Frame The same * symbol is used for Emulsified Asphalt Tack in the Typical Section Quantities frame, the fill/back slope tables, and end condition examples.	In the Typical Section Quantities frame revised the symbol for Emulsified Asphalt Tack and the note under the frame from a * to a #.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Typicals.dwg (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Excel - Signing Updates for Construction Users Enhancements have been identified for use by construction teams.	Construction table added to each spec sheet that will autofill design information. Macro buttons added to toggle between hidden design or construction tables/columns. Fewer spec sheets to decrease file size. Added sheets with construction summary tables.	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\#####000SISUM001.xlsm (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Excel SISUM Wood By Each Template Pilot Many signing projects are requiring a new way of summarizing wood pole quantities.	New file has a summary table modified to count each wood pole instead of linear feet and a new sheet that automatically tallies the number of each size of wood pole needed. This is a pilot version of the signing spreadsheet and is expected to become the standard spreadsheet in the near future. Accessible from MDT Tools ribbon: MDT Excel Tools > Excel SISUM Wood By Each Template	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\MDT-Ribbon.cuix (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\#####000SISUM001_WOOD_BY_EACH.xlsm (new)	
2024.4	State Kit (v2.3.0)	01/27/26	Excel Manager - Misc. Road Updates Miscellaneous summary frame items are outdated or could be improved.		C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples*.pdf (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Libraries\FramesLibrary_RDSUM.xlsx (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				Summary Frame Updates: **BARRIER FENCING** - It was requested by the Contractors, so Added column N ~ Title it RIGHT OF WAY BREAKS #, added a note under the frame # FOR INFORMATION ONLY, and added a comment in cell N7: Add the number of r/w breaks per each section of fencing, per Construction's request from the Contractors. This is for information only. (The Designer may put the symbol and total in the total row) - Cell I7 update wording in comment: Show total only for Temp. Fence. Not necessary, but the Designer may break it out by location to benefit the contractor and to anyone checking the totals. See clarification in the Road Design Manual. - Cell G7, G8, H8 update the word ECCB to ECCS. - Cell O7 add wording to comment, "See clarification in the Road Design Manual section13.6.5.4." **BARRIER_GRAIL_END_SECT_WIDENING** - Update the note in cell C5 due to the updates to the spec. book and detail drawings: See Subsection 606.03.15 of the Standard Specification & DETAILED DRAWINGS 606-13 & 606-55B update to See Subsection 606.03.13 of the Specifications Book & Detailed Drawings 606-13 & 606-55. - Update the note in cell G7 from (RDM 13.3.7.7 Sept 2016) to (RDM 13.3.7.7). A new RDM is coming out soon. **BARRIER_GUARDRAIL** - Change the wording to MASH BOX BEAM TERMINAL – MBEAT instead of OPTIONAL BOX BEAM TERMINAL SECTION, - Update the link and wording in comment in cell K7 (combine 2nd paragraph and last paragraph) to align with wording in the RDM: (new wording) Lengths of box beam guardrail should be rounded up to 18-foot increments, and the length of each box beam end section is 11.9 feet and requires at least one 18-foot section of standard box beam rail. - Update wording in comment in cell M7 from: Measurement excludes the length of the Terminal Sections but payment includes the length of Terminal Sections (different systems vary in length but 50' is the assumed length). Update to "Measurement is to the length of need and does not include the length of terminal sections. Terminal sections are usually not measured or paid for separately; they are included in the cost of High-Tension Cable Rail." - Update the links so they work in cells M7, Q7, S7, U7, AA7, AE7. **BARRIER_TEMPORARY_GUARDRAIL** – Update the links so they work I cell C5, M7 **BARRIER_CONC** - Update the links so they work I cell M7. **CONC_CURB(1)** – in cell M6 update wording to include the guidance memo: Include measurement of concrete fillet in measurement of valley gutter. See guidance memo CONCRETE CURB RETURN FILLET. **CONC_LINED_DITCH(1)** – update links so they work in cell J10. **CONC_MEDIAN_CURBS(1)** - update links so they work in cell I10. - Add a subtotal row to align with the rounding - Move comment from cell G11 to C21 Round the final quantities only (the TOTAL line) to comply with Table 109-1 Rounding Criteria in the Standard Specifications (only for those that are more precise than Table 109-1) - Move comment from G22 to C22 Round the final quantities only (the TOTAL line) to comply with Table 109-1 Rounding Criteria in the Standard Specifications (only for those that are more precise than Table 109-1) **CONC_SIDEWALK(1)** – update links so they work in cell G7. **DRAINAGE_APPROACH_PIPE** - Add wording to the comment to cell C6: The station will agree, most of the time, with the station of the approach. - In cell J6 comment remove words "September 2016" since a new RDM is coming out and update the link, so it works. - Update wording in cell E7		

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				- Update wording in cell E7: Remove the reference to the emails and just provide guidance that the bid items for arch pipes are the round pipe equivalents such as RCPA 18 IN EQ DIA. Arch pipes are now shown as "round pipe size equivalent diameter" (18 IN EQ DIA / 24 IN EQ DIA) - Remove comment in cell G29 since each remove pipe length is rounded to nearest 1'. The removed comment was: Round the final quantities only (the TOTAL line) to comply with Table 109-1 Rounding Criteria in the Standard Specifications (only for those that are more precise than Table 109-1) - Add a comment in cell G8: Round all removed pipe lengths to the nearest 1-foot to coincide with the spec book. **DRAINAGE_CULVERTS** - Update links so they work in cell N6. - Remove comment in cell S18 since each remove pipe length is rounded to nearest 1'. The removed comment was: Round the final quantities only (the TOTAL line) to comply with Table 109-1 Rounding Criteria in the Standard Specifications (only for those that are more precise than Table 109-1) - Add a comment in cell G8: Round all removed pipe lengths to the nearest 1-foot to coincide with the spec book. - Update wording in cell AB6: Remove the reference to the emails and just provide guidance that the bid items for arch pipes are the round pipe equivalents such as RCPA 18 IN EQ DIA. Arch pipes are now shown as "round pipe size equivalent diameter" (18 IN EQ DIA / 24 IN EQ DIA) - Update wording in cell G7. Remove the reference to the emails and just provide guidance that the bid items for arch pipes are the round pipe equivalents: ….call out in the "REMARKS" for the equivalent round pipe size (for pay item: 36 IN EQ DIA / 42 IN EQ DIA) - Add a comment in cell S7: Round all removed pipe lengths to the nearest 1-foot to coincide with the spec book. **DRAINAGE_CULVERTS_OPT** - Update wording in cell E7: Remove the reference to the emails and just provide guidance that the bid items for arch pipes are the round pipe equivalents such as RCPA 18 IN EQ DIA. Arch pipes are now shown as "round pipe size equivalent diameter" (18 IN EQ DIA / 24 IN EQ DIA) - Update links so they work in cell T7. - Add a comment in cell I8: Round all removed pipe lengths to the nearest 1-foot to coincide with the spec book. - Remove comment in cell I23 since each remove pipe length is rounded to nearest 1'. The removed comment was: Round the final quantities only (the TOTAL line) to comply with Table 109-1 Rounding Criteria in the Standard Specifications (only for those that are more precise than Table 109-1) **DRAINAGE_CULVERT_RECAP** - Remove comment in cell G23 since each remove pipe length is rounded to nearest 1'. The removed comment was: Round the final quantities only (the TOTAL line) to comply with Table 109-1 Rounding Criteria in the Standard Specifications (only for those that are more precise than Table 109-1) - In the comment, change ECCB to ECCS in cell C6 **DRAINAGE_IRRIGATION_STRUCTURES** - In the comment, change ECCB to ECCS in cell J6 & J11. **DRAINAGE_MEDIAN_INLETS** - Remove comment in cell J8 since each remove pipe length is rounded to nearest foot. The removed comment was: Round the final quantities only (the TOTAL line) to comply with Table 109-1 Rounding Criteria in the Standard Specifications (only for those that are more precise than Table 109-1) - Add a comment in cell I8: Round all removed pipe lengths to the nearest 1-foot to coincide with the spec book. - Round the total in column I - New culvert length to the nearest foot in 2-foot increments. (approved by Chad Knuth) **EROSION_EMB_PROTECTORS** - Update links so they work in cell K10. - Add a comment to the cell C5 comment: Place embankment protector pipe and bank protection on the same row and same station apart from the concrete curb stationing. - Remove comment in cell G17 since each remove pipe length is rounded to nearest 1'. The removed comment was:		

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				Round the final quantities only (the TOTAL line) to comply with Table 109-1 Rounding Criteria in the Standard Specifications (only for those that are more precise than Table 109-1) - Need to round cell I20 to 1 foot. - Add a comment in cell I20: Round all concrete curb total lengths to the nearest 1-foot to coincide with the spec book. **EROSION_PERMANENT_EROSION_CONTR** - In the comment, change ECCB to ECCS in cell C5, G6, L6. - Update links so they work in cell M10. **GRADE_BRIDGE_END_BACKFILL** – replaced comment in Cell H7 to: “Consult with Geotechnical Section to determine type of GEOTEXTILE: SEPARATION or STABILIZATION. Can be the following: GEOTEXT. SEPAR. HIGH GEOTEXT. SEPAR. MOD. GEOTEXTILE STAB. If using stabilization, it is always high survivability and does not need to be specified here” **GRADE_CLEAR_GRUB** - In the comment, change ECCB to ECCS in cell G7. **GRADE_EMB** - The RDM is being updated so remove the words “Sept 2016” in cell H19 comment and don’t replace with any words and update the link, so it works. **GRADE_STREET_ADDGRADING** – remove tildes in cells G20 and H20 and add quantities in the subtotal row. Add comment into cell C20: The subtotals will be shown and then transferred into the grading frame. AutoCAD cannot process the add grading items in the earthwork using the surface-to-surface comparison. See the AutoCAD procedure manual. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf **GRADE_STREET_EXCAVATION**– add a comment in cell G16: The Additional Grading subtotals will be shown in the Grading frame. AutoCAD cannot process the add grading items in the earthwork using the surface-to-surface comparison. See the AutoCAD procedure manual. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf **GRADE_TOPSOIL_SEEDING** - Update links so they work in cell C5. **GRADE_UNCL_ADDGRADING** - Cell C20: Change wording in cell from TOTAL to SUBTOTAL and Add a comment: The subtotals will be shown and then transferred into the grading frame. AutoCAD cannot process the add grading items in the earthwork using the surface-to-surface comparison. See the AutoCAD procedure manual. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf - Add a comment in cell J11 (topsoil location): For AutoCAD Projects, For Topsoil Replacement show an adjusted Topsoil total for the length of the project, then for the earthwork split the total into 3,000 foot increments (30 stations) for the Mass Haul Diagram. See the AutoCAD procedure. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf **GRADE_UNCL_BORROW** - Add the words Additional Grading in cell H16 and add a comment: The Additional Grading subtotals will be shown in the Grading frame. AutoCAD cannot process the add grading items in the earthwork using the surface-to-surface comparison. See the AutoCAD procedure manual. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf - fix link in cell H16 **GRADE_UNCL_EXCAVATION** - Add the words Additional Grading in cell H15 and add a comment: The Additional Grading subtotals will be shown in the Grading frame. AutoCAD cannot process the add grading items in the earthwork using the surface-to-surface comparison. See the AutoCAD procedure manual. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf **MISC_ITEMS** - the bid items were not in the columns and only on the title of the frame, placed the bid item wording “MISC. ITEMS” in the column heading and added the total row. - Change ECCB to ECCS in cell G6, H6. **NOTES_APPROACHES**		

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				- In cell S7 add the comment "Use for public approaches mostly". - Moved comment in cell O7 to P7 and changed wording to see "Design Memo" instead of "email" from 6/26/19 in both cells. - Cell M6 add comment "Show what is being placed and how long. (ie. 12.0' Plant mix strip & CAC to length)". - In cell V6 add comment "Show what side the approach is on and if it is M.O.C. as needed." - Moved columns around so they look more like the surfacing and additional surfacing frames. Column S CAC to Column Q and moved column T Agg. Treat to Column U. **NOTES_APPROACHES_COMMERCIAL** - Cell M6 add comment "Show what is being placed and how long. (ie. 12.0' Plant mix strip & CAC to length)". - In cell S6 add wording "Show what side the approach is on and if it is M.O.C. as needed." Swapp agg. treat and emulsified tack columns to look more like the surfacing and additional surfacing frames. **STRUCTURE_HANDRAIL** - edited the comment in cell G7 changed from CBR to Concrete Barrier Rail. **STRUCTURE_RETAINING_WALL** – update the bid item link in cell C5: https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **SURF_CRACK_SEALING** – Crack sealing is now a detail drawing, remove the symbol in the heading and *SEE DETAIL" note. **SURF_OVERLAY** – Update links so they work in cell P8. Update wording in comment in cell U8 to show what HIR stands for. Can also have "RECYCLING AGENT HIR" (Hot In Place Recycle) **SURF_OVERLAY_ADD_SURFACING - add comment in cell U8:** **Can also have "RECYCLING AGENT HIR" (Hot In Place Recycle)** **SURF_OVERLAY_VOLUMETRIC** - Change wording of PLANT MIX SURF. GR. S MISC. to PLANT MIX BIT SURF. MISC. to match the bid item. - Update links so they work in cell O8. - Update the RDM section in comment in cell Q8 from 13.5.4.9 to 13.5.4.8. **SURF_OVERLAY_VOL_ADD_SURFACING** - Update links so they work in cell N8.		

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				SURF_OVERLAY_COMMERCIAL - Update links so they work in cell O8. Update the RDM section in comment in cell P8 from 13.5.4.9 to 13.5.4.8. **SURF_OVERLAY_COM_ADD_SURFACING** - Update links so they work in cell M8. - Added column N for COMM. PLANT MIX MISC. to coincide with the headings in the SURF_OVERLAY_COMMERCIAL summary frame. **SURF_RECON_SURFACING** - Change wording of PLANT MIX SURF. MISC. to PLANT MIX BIT SURF. MISC. to match the bid item. - Update links so they work in cell O8. **SURF_RECON_ADD_SURFACING** - Change wording of PLANT MIX SURF. MISC. to PLANT MIX BIT SURF. MISC. to match the bid item. - Update link so it works in cell O8. **SURF_RECON_SURFACING_CTB** - Update link so it works in cell O8. **SURF_RECON_ADD_SURFACING_CTB** - Update link so it works in cell O8. - Update text in cell O7 from Can have column and bid item for "PLANT MIX BIT.SURF. GR. S - MISC." - check w/Dist. Const. on using for approaches, etc. - see memo dated 6/26/19 from J. Combs. To Can have column and bid item for "PLANT MIX BIT.SURF. GR. S - MISC." - check w/Dist. Const. on using for approaches, etc. - see Design memo dated 6/26/19. **SURF_TREAT_PAVE_MARKINGS** – Change comment in cell C6 to: Final Sweep & Broom quantities are estimated by Road Designer, all other pavement marking quantities provided by Traffic and Safety Bureau. Determine with Construction on how many applications are needed. https://www.mdt.mt.gov/other/webdata/external/Traffic/design_memos/2023-04-03_Signing_delineation_pavement_marking.pdf Can have other bid items - see ECCS Bid Items Catalog. https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **SURF_TREAT_RUMBLE_STRIPS** - Add the word “public” to the comment in cell G7. - Update links so they work in cell N8. **STORM_DRAIN_PIPE** – Round the columns H, I, J to the foot (no decimal) and update the comment in cell H6 FROM: Can be other sizes of "Storm Drain Pipe" (RCP or PVC can be optional - see Hydraulic recommendations) - see ECCB Bid Item Catalog & Section 603 of the Detailed Drawings for sizes. Can also have bid item for "REMOVE STORM DRAIN". TO Can be other sizes of "Storm Drain Pipe" (RCP or PVC can be optional - see Hydraulic recommendations) - see ECCS Bid Item Catalog & Section 603 of the Detailed Drawings for sizes. Can also have bid item for "REMOVE STORM DRAIN". Total storm drain pipe lengths are rounded to the foot. **STORM_DRAIN_STRUCTURES** – update ECCB to ECCS in cell F6.		

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				Example Updates: **UTILITY_WATER_LINE (2)** – remove comment for cell N7 and AA7, the columns are not showing in the example. **UTILITY_WATER_LINE** – unhide column Z so the comment can be seen. **UTILITY_ADJUST_WATER_VALVE_BOX** – added the funding example in the frame notes. **STORM_DRAIN_PIPE** - change ECCB to ECCS in cell H6 and add a comment in cell H6: Total storm drain pipe lengths are rounded to the tenth. - update pdf to the correct rounding with the subtotal row added. **SURF_TREAT_RUMBLE_STRIPS (2)** - Add the word “public” to the comment in cell G7, update link to the bid item list in cell I8, updated the quantities in row J so they are 2’ wide x 0.05 and spit out left and right sides because they are rarely the same. **SURF_TREAT_RUMBLE_STRIPS** – add the word “public” to the comment in cell G7, updated the quantities in row I so they are 2’ wide x 0.05 **SURF_TREAT_PAVE_MARKINGS** – Change comment in cell C6 to: Final Sweep & Broom quantities are estimated by Road Designer, all other pavement marking quantities provided by Traffic and Safety Bureau. Determine with Construction on how many applications are needed. https://www.mdt.mt.gov/other/webdata/external/Traffic/design_memos/2023-04-03_Signing_delineation_pavement_marking.pdf Can have other bid items - see ECCS Bid Items Catalog. https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **SURF_RECON_ADD_SURFACING_CT (2)** – add text BIT. to cell N8 show “PLANT MIX BIT. SURF. – MISC” to match bid item. **SURF_RECON_ADD_SURFACING_CTB** – updated comment in cell O7 “Can have column and bid item for "PLANT MIX BIT.SURF. GR. S – MISC” to “Can have column and bid item for "PLANT MIX BIT. SURF. - MISC **SURF_RECON_SURFACING_CTB (2)** - add text BIT. to cell O8 show “PLANT MIX BIT. SURF. – MISC” to match bid item. **SURF_RECON_SURFACING_CTB** – Updated comment in cell O7 “Can have column and bid item for "PLANT MIX BIT.SURF. GR. S – MISC” to “Can have column and bid item for "PLANT MIX BIT. SURF. - MISC **SURF_RECON_ADD_SURFACING** – Add text BIT. to cell O8 show “PLANT MIX BIT. SURF. – MISC” to match bid item. **SURF_RECON_SURFACING** - Add text BIT. to cell O8 show “PLANT MIX BIT. SURF. – MISC” to match bid item. **SURF_OVERLAY_COM_ADD_SURFAC (2)** – Remove comment in cell O8 because it is in cell P8. Add Tildes in the total rows I & J for consistency when there are zeros in the total row. **SURF_OVERLAY_COM_ADD_SURFACING** – Update comment in cell O8 to see RDM Section 13.5.4.8 to agree with the new RDM section. **SURF_OVERLAY_COMMERCIAL** – Update comment in cell O8 to see RDM Section 13.5.4.8 to agree with the new RDM section. **SURF_OVERLAY_VOL_ADD_SURFACING** - Updated the comment in cell S7 to say “, should have a column for square yards of Agg. Treat. Change the wording in the cell N8 and O8 remove words “see memo dated 6/26/19 from J. Combs” to “See Design Memo dated 6/26/19”. In cell R8 change CHFRS-2P to CRS-2P to not contradict but compliment the comment in the same cell. **SURF_OVERLAY_VOLUMETRIC** - Cell P8 change the RDM section to 13.5.4.8 to match new road design manual update. - In cell R8 change CHFRS-2P to CRS-2P to not contradict but compliment the comment in the same cell. - Update wording in cell K19 to “If there is an ADD. SURF summary frame, this row of quantities should be there instead.” - Updated the comment in cell S7 to say “, should have a column for square yards of Agg. Treat. **SURF_OVERLAY_ADD_SURFACING (ss)** - Added a quantity of binder in Leveling row because there should be a quantity when there is asphalt. - Remove comment in Z8 because there is no column. - Added a comment in cell K19 If there is an ADD. SURF summary frame, this row of quantities should be there instead. **SURF_OVERLAY_ADD_SURFACING (2)** – to be consistent on how to show, move the wording in the REMARKS column to the FOR column and then add in the REMARKS column the word M.O.C. then add the note M.O.C. - MEASURED ON CAD. **SURF_OVERLAY (2)**		

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				- Removed the extra BIT MAT words showing up in row 6 column U - Hide the extra CAC and Traffic Gravel columns (semantics) **SURF_CRACK_SEALING** – crack sealing is now a detail drawing, remove the *see detail note from the bottom of the frame. **STRUCTURE_RETAINING_WALL (3)** - Update the bid item link in cell C5: https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **STRUCTURE_RETAINING_WALL (2)** - update the bid item link in cell C5: https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **STRUCTURE_RETAINING_WALL** – update the bid item link in cell C5: https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **STRUCTURE_REMOVE** – In Row F Added the MDT ID 0XXXX to indicate that the MDT ID number is needed also. **STRUCTURE_HANDRAIL** – edited the comment in cell G7 changed from CBR to Concrete Barrier Rail. **NOTES_APPROACHES_COMMERCIAL** **- The incomplete example summary frame is removed.** **- updated the pdf to the correct example** **NOTES_APPROACHES (2)** – Update wording in row L to show how long and what is being placed. **NOTES_APPROACHES (1)** - Added cover and tildes in column N, in cell R7 add the comment “Use for public approaches mostly”. - Updated comment in cell P7 to see “Design Memo dated 6/26/19” instead of email from 6/26/19. **NOTES_APPROACHES** - The incomplete example summary frame is removed. - Updated the pdf with correct example **MISC_SCALING** – removed the “+/-“in the station range to be consistent. **MISC_ITEMS (2)** - The bid items were not in the columns and only on the title of the frame, placed the bid item wording “MISC. ITEMS” in the column heading and added the total row. - Change ECCB to ECCS in cell G6, H6. - Move the comment from Cell C5 to G7 and H7 change the comment text from “Frame heading can be:” to “Pay Items can be:” because these are pay items and the title of the frame should stay the same. **MISC_ITEMS** - The bid items were not in the columns and only on the title of the frame, placed the bid item wording “MISC. ITEMS” in the column heading cell G7 and added the total row. - Change ECCB to ECCS in cell G6. - Move the comment from Cell C5 to G7 because these are pay items and the title of the frame should stay the same. **GRADE_UNCL_EXCAVATION (2)** - Show a * in the title of the fame to match the note. - Row 14 Add the words Additional Grading and added some quantities - Add a comment in cell I14 (Additional Grading location): The Additional Grading subtotals will be shown in the Grading frame. AutoCAD cannot process the add grading items in the earthwork using the surface-to-surface comparison. See the AutoCAD procedure manual. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf **GRADE_UNCL_EXCAVATION** - Row 43 Add the words Additional Grading and added some quantities - Add a comment in cell H43 (Additional Grading location): The Additional Grading subtotals will be shown in the Grading frame. AutoCAD cannot process the add grading items in the earthwork using the surface-to-surface comparison. See the AutoCAD procedure manual. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf **GRADE_UNCL_BORROW_2**		

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				- Add the words Additional Grading and added some quantities in row 15 - Add a comment in cell H15 (Additional Grading location): The Additional Grading subtotals will be shown in the Grading frame. AutoCAD cannot process the add grading items in the earthwork using the surface-to-surface comparison. See the AutoCAD procedure manual. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf **GRADE_UNCL_BORROW** - - Add the words Additional Grading and added some quantities in row 15 - Add a comment in cell H15 (Additional Grading location): The Additional Grading subtotals will be shown in the Grading frame. AutoCAD cannot process the add grading items in the earthwork using the surface-to-surface comparison. See the AutoCAD procedure manual. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf **GRADE_UNCL_ADDGRADING** - Cell C47: Change wording in cell from TOTAL to SUBTOTAL and Add a comment: The subtotals will be shown and then transferred into the grading frame. AutoCAD cannot process the add grading items in the earthwork using the surface-to-surface comparison. See the AutoCAD procedure manual. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf - Add a comment in cell J11 (topsoil location): For AutoCAD Projects, For Topsoil Replacement, show an adjusted Topsoil total for the length of the project, then for the earthwork split the total into 3,000-foot increments (30 stations) for the Mass Haul Diagram. See the AutoCAD procedure. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf **GRADE_STREET_EXCAVATION** - Add a comment in cell G14: The Additional Grading subtotals will be shown in the Grading frame. AutoCAD cannot process the add grading items in the earthwork using the surface-to-surface comparison. See the AutoCAD procedure manual. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf **GRADE_STREET_ADDGRADING** – remove tildes and add quantities in the subtotal row. Add comment into cell C45: The subtotals will be shown and then transferred into the grading frame. AutoCAD cannot process the add grading items in the earthwork using the surface-to-surface comparison. See the AutoCAD procedure manual. https://www.mdt.mt.gov/other/webdata/external/esdc/library/Procedure-EWK.pdf **GRADE_EMB** - The RDM is being updated so remove the words “Sept 2016” in cell H22 comment and don’t replace with any words. **GRADE_DIGOUT (2)** – Removed periods on note at bottom of frame to match other frames. * SEE DIGOUT DETAILS. DIGOUT QUANTITIES INCLUDE TAPERS. (old) * SEE DIGOUT DETAILS-DIGOUT QUANTITIES INCLUDE TAPERS (new) **GRADE_CLEAR_GRUB (2)** - change ECCB to ECCS in cell G7. **GRADE_CLEAR_GRUB** - change ECCB to ECCS in cell G7. **GRADE_BRIDGE_END_BACKFILL** - Updated Geotextile column to the word Separation - Replaced comment in Cell H7 to: “Consult with Geotechnical Section to determine type of GEOTEXTILE: SEPARATION or STABILIZATION. Can be the following: GEOTEXT. SEPAR. HIGH; ' GEOTEXT. SEPAR. MOD.; GEOTEXTILE STAB. If using stabilization, it is always high survivability and does not need to be specified here” **EROSION_REVEGETATION** – added numbers in the fertilizer column for clarity **EROSION_RANDOM_RIPRAP** – changed the zero to a tilde cell G7. **EROSION_PERMANENT_EROSION_C (2)** - In the comment, change ECCB to ECCS in cell C5, I6. Updated bid item link in cell K10 https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **EROSION_PERMANENT_EROSION_CONTR** - In the comment, change ECCB to ECCS in cell C5, J6. - Updated bid item link in cell L10 https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **EROSION_EMB_PROTECTORS** - Replace the whole frame to have the embankment protectors and the bank protection on a separate line from the curb but		

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				on the same line. **DRAINAGE_MEDIAN_INLETS (2)** - Round column I, J, K, L pipe lengths to nearest foot in 2-foot increments. - Round the column M removed pipe culvert to the nearest 1-foot increment. Asked Chad 10/6/25 – yes these are rounded. **DRAINAGE_MEDIAN_INLETS** - Round column I New Pipe lengths to nearest foot in 2-foot increments. Round the column J Removed pipe culvert to the nearest 1-foot increment. Asked Chad 10/6/25 – yes these are rounded. **DRAINAGE_IRRIGATION_STRUCTURES2** - Remove the “from” from the Station column – unnecessary to have. (semantics) - In the comment, change ECCB to ECCS in cell J6 & J11 **DRAINAGE_IRRIGATION_STRUCTURES** – In the comment, change ECCB to ECCS in cell J11 **DRAINAGE_CULVERT_RECAP_1** - In the comment, change ECCB to ECCS in cell C6 **DRAINAGE_CULVERT_RECAP** – In the comment, change ECCB to ECCS in cell C6 **DRAINAGE_CULVERTS_OPT_3** – In the Remove Pipe Culvert column round each pipe to one-foot, in the Culvert In Pl. column round each pipe to one-foot. **DRAINAGE_CULVERTS_OPT_2** – In the Remove Pipe Culvert column round each pipe to one-foot, in the Culvert In Pl. column round each pipe to one-foot. Cell E7 update the comment: Arch pipes are now shown as "round pipe size equivalent diameter" (18" EQ DIA / 24" EQ DIA) - see design guidance email dated 2/13/20 (from Chad Richards) & email dated 6/19/20 (from John Cornell) Remove the reference to the emails and just provide guidance that the bid items for arch pipes are the round pipe equivalents such as RCPA 18 IN EQ DIA. Arch pipes are now shown as "round pipe size equivalent diameter" (18 IN EQ DIA / 24 IN EQ DIA) **DRAINAGE_CULVERTS_OPT_1** – In the Remove Pipe Culvert column round each pipe to one-foot, in the Culvert In Pl. column round each pipe to one-foot. Cell E7 update the comment: Arch pipes are now shown as "round pipe size equivalent diameter" (18" EQ DIA / 24" EQ DIA) - see design guidance email dated 2/13/20 (from Chad Richards) & email dated 6/19/20 (from John Cornell) Remove the reference to the emails and just provide guidance that the bid items for arch pipes are the round pipe equivalents such as RCPA 18 IN EQ DIA. Arch pipes are now shown as "round pipe size equivalent diameter" (18 IN EQ DIA / 24 IN EQ DIA) **DRAINAGE_CULVERTS_OPT** – Cell E7 update the comment: Arch pipes are now shown as "round pipe size equivalent diameter" (18" EQ DIA / 24" EQ DIA) - see design guidance email dated 2/13/20 (from Chad Richards) & email dated 6/19/20 (from John Cornell) Remove the reference to the emails and just provide guidance that the bid items for arch pipes are the round pipe equivalents such as RCPA 18 IN EQ DIA. Arch pipes are now shown as "round pipe size equivalent diameter" (18 IN EQ DIA / 24 IN EQ DIA) **DRAINAGE_CULVERTS** - Round columns Remove Pipe Culvert and Culvert in Pl. existing pipe length to the nearest whole foot. - Cell E7 update the comment: Call out actual arch pipe size needed to install (43-3/4" x 26-5/8" / 49" x 33") for the specific material as specified by Hydraulics (RCPA/CSPA) in column here and add call out to "REMARKS" for the equivalent round pipe size (for pay item: 36" EQ DIA / 42" EQ DIA) - see design guidance email dated 2/13/20 (from Chad Richards) & email dated 6/19/20 (from John Cornell) Remove the reference to the emails and just provide guidance that the bid items for arch pipes are the round pipe equivalents such as RCPA 18 IN EQ DIA. Call out actual arch pipe size needed to install (43-3/4” x 26-5/8” / 49” x 33”) for the specific material as specified by Hydraulics (RCPA/CSPA) in column here and add call out to "REMARKS" for the equivalent round pipe size (for pay item: 36 IN EQ DIA / 42 IN EQ DIA) **DRAINAGE_APPROACH_PIPE** - Updated to proper wording in the Remarks (remove words “approach pipe”) and Culvert in Pl. columns (no inch marks), make the Remove pipe culvert, relay pipe culvert and clean pipe culvert rounded to the nearest foot – per standards. - In cell J6 comment remove words “September 2016” since a new RDM is coming out. - Cell E7 update the comment: Arch pipes are now shown as "round pipe size equivalent diameter" (18" EQ DIA / 24" EQ DIA) - see design guidance email dated 2/13/20 (from Chad		

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				Arch pipes are now shown as "round pipe size equivalent diameter" (18" EQ DIA / 24" EQ DIA)" see design guidance email dated 2/19/20 (from Chad Richards) & email dated 6/19/20 (from John Cornell) Remove the reference to the emails and just provide guidance that the bid items for arch pipes are the round pipe equivalents such as RCPA 18 IN EQ DIA. Arch pipes are now shown as "round pipe size equivalent diameter" (18 IN EQ DIA / 24 IN EQ DIA) **CONC_SIDEWALK(1)_1** - updated bid item link in cell G7 https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **CONC_SIDEWALK(1)** - updated bid item link in cell G7 https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **CONC_MEDIAN_CURBS(1)_1** - updated bid item link in cell J10 https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **CONC_MEDIAN_CURBS(1)** - updated bid item link in cell I10 https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf - Add a subtotal row to align with the rounding of the median curb length **CONC_LINED_DITCH(1)** - round to one foot in column G & H, updated bid item link in cell K10 https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **CONC_CURB(1)_2** – remove wording about the valley gutter in cell K6 because it is not for a valley gutter **CONC_CURB(1)_1** – add comment in cell K6 “See guidance memo CONCRETE CURB RETURN FILLET”. **CONC_CURB(1)** – add comment in cell M6 “See guidance memo CONCRETE CURB RETURN FILLET”. **BARRIER_CONC_2** – remove periods in the notes, updated bid item link in cell I7, J7 https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **BARRIER_CONC** – updated bid item link in cell M7 https://mdtinfo.mdt.mt.gov/other/webdata/external/contractplans/reports/ENG-ITEM-LIST-2020.pdf **BARRIER_GUARDRAIL_4** – we do not want to pay for terminal sections separately for HT cable rail systems, because each system has different requirements and therefore, the number of terminals required will likely vary. So, in general (unless we specify a particular system) the cost of terminal sections should be included in the unit bid price per linear foot of High-Tension Cable Rail. There is no calculation for the type of rail in the Road Design Manual, so remove wording in comment in cell M7 and Update the comment in cell M7 FROM: Measurement excludes the length of the Terminal Sections but payment includes the length of Terminal Sections (different systems vary in length but 50' is the assumed length). TO “Measurement is to the length of need and does not include the length of terminal sections. Terminal sections are usually not measured or paid for separately; they are included in the cost of High-Tension Cable Rail.” **BARRIER_GUARDRAIL_3** - update Bid Item link in comment in cell Q7. **BARRIER_GUARDRAIL _2** - Change the wording to MASH BOX BEAM TERMINAL – MBEAT instead of OPTIONAL BOX BEAM TERMINAL SECTION - Removed extra wording the remarks column and add the BE to the stations at bridge end. - Update links in comment in cell M7. **BARRIER_GUARDRAIL** - Change the wording to MASH BOX BEAM TERMINAL – MBEAT instead of BOX BEAM OPTIONAL TERMINAL SECTION. **BARRIER_GRAIL_END_SECT_WIDENING _3** - Change the wording to MASH BOX BEAM TERMINAL – MBEAT instead of BOX BEAM OPTIONAL TERMINAL SECTION. - Add the note in cell V7 due to the updates to the spec. book and detail drawings: See Subsection 606.03.15 of the Standard Specification & DETAILED DRAWINGS 606-13 & 606-55B update to See Subsection 606.03.13 of the Specifications Book & Detailed Drawings 606-13 & 606-55. **BARRIER_GRAIL_END_SECT_WIDENING** - Update the note in cell C5 due to the updates to the spec. book and detail drawings: See Subsection 606.03.15 of the Standard Specification & DETAILED DRAWINGS 606-13 & 606-55B update to See Subsection 606.03.13 of the Specifications Book & Detailed Drawings 606-13 & 606-55. The RDM is being updated so remove the words “Sept 2016” in cell E7 comment and don’t replace with any words. **BARRIER_FENCING (6-2)** now **BARRIER_FENCING_4b** - Add the column RIGHT OF WAY BREAKS ### and add a note under the frame ### FOR INFORMATION ONLY.		

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				- In the comment, change ECCB to ECCS in cell G7, G8, H8, I8, J8. Add a comment in cell O7: Add the number of r/w breaks per each section of fencing, per Construction's request from the Contractors. This is for information only. **BARRIER_FENCING (6-1)** now **BARRIER_FENCING_4a** - Add the column RIGHT OF WAY BREAKS ## and add a note under the frame ## FOR INFORMATION ONLY. - In the comment, change ECCB to ECCS in cell G7, G8, H8, I8, J8. - Add a comment in cell O7: Add the number of r/w breaks per each section of fencing, per Construction's request from the Contractors. This is for information only. **BARRIER_FENCING (5)** now **BARRIER_FENCING _3** - Add the column RIGHT OF WAY BREAKS # and added a note under the frame # FOR INFORMATION ONLY. - Added a comment in cell J7: Add the number of r/w breaks per each section of fencing, per Construction's request from the Contractors. This is for information only.		
2024.4	State Kit (v2.3.0)	01/27/26	Hydraulics Profile View - Object Style Hydraulics requires a profile view style for pipes.	Created profile view style "MDT HYDR - Pipe Design" to support smaller scale pipe profiles for design analysis purposes. Edited C-PROF-MISC ByLayer color from color 30 (orange) to white.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-AlnProfSuper-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\Layers.xlsx (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT All Layers (Standard).las (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT RightOfWay.las (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Line Styles Display - Blocks/Styles for select line types Display of 3D line types isn't complete through short segments.	Created Civil 3D Line Label Styles, RD-LIN-FENC and RD-LIN-FENC-E for proposed and existing fence line types respectively. Created a fence block ("X") that's used in the Civil 3D Line Label Styles. The Civil 3D Line Label Styles, RD-LIN-FENC and RD-LIN-FENC-E may be used with the Annotate Add Labels to add the fence symbol "x" when the fence line doesn't display in short segments.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\design-group.dwt (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Linetype Symbol Blocks - Wetlands Linetypes with symbol intervals are sometimes too short to display the symbol. Blocks are needed to complete the line symbols when this occurs.	Developed Civil 3D Line Label style, MDT-LIN-WETL-E, to annotate the "WL" symbol on wetland lines. The MDT-LIN-WETL-E Civil 3D Line Label Styles may be used with the Annotate Add Labels to add the wetland symbol "WL" when the fence line doesn't display in short segments.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\design-group.dwt (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Linetype Symbol Size II Linetype symbols for numerous linear features, including existing wetland boundary, are larger than plan sheet note text.	Updated linetypes following issue "Linetype Symbol Size" release were updated in miscellaneous template reference files.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-AlnProfSuper-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Drainage-Ref.dwt (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.3.0)	01/27/26	MDT DaylightWithSubbase.pkt - Codes When coding to label the point codes with the corresponding side (L or R), only the last code name listed is receiving the L or R suffix. Need the option to turn off/on a PESC ditch. The fill construction limits will not display when the subassembly build option is set to “Daylight” in the MDT Daylight with Subbase subassembly.	Adjusted the codes in the MDT DaylightWithSubbase.pkt to support multi-coding, so each code name listed for a point would receive the appropriate suffix (L or R). Added code to provide the user with the option to turn off/on the PESC ditch option along with adjustments for ditch width and slope. Added fill point code to the Daylight build option in the MDT DaylightWithSubbase.pkt. Updated the MDT DaylightWithSubbase.pkt in the associated assemblies: MDT Rural 2 Lane, MDT Rural 4 Lane, MDT Rural Divided, MDT Ramp, and MDT Widening. In order to display the construction limit transition lines, set the Feature Line Styles for Daylight, Daylight_L, and Daylight_R codes to MDT-CRDR-Daylight - Cut in the MDT-Corridor-Const Limits Code Set style. The Feature Line Styles for all Daylight_Fill_* points are set to MDT CRDR-Daylight Line - Fill. All point codes have been incorporated into every Code Set Style to ensure proper display of the Code Set styles.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightWithSubbase_1-4.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightWithSubbase.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated) Other Non-State Kit File(s): 2024StateKit-Asm_Subasm.pdf (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	MDT Curb & Gutter Subassembly - Geotextile Wrap Line The MDT Curb & Gutter subassembly does not have an input code for geotextile wrap line style around the subbase.	MDT Curb & Gutter subassembly updated to include Input Parameter - L12 for option of showing geotextile around the subbase.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Curb & Gutter.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg (updated) Other Non-State Kit File(s): 2024StateKit-Asm_Subasm.pdf (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	MDT Cut Table.pkt and MDT Fill Table.pkt - Cut and Fill Slope & Heights The number of slopes and heights (4 levels) do not match the options in MDT DaylightWithSubbase.pkt (5 Levels).	Added a 5th slope and height option to the MDT Cut Table.pkt and MDT Fill Table.pkt and created MDT-Table_Cut-Fill_5 Link style. Cut and fill tables can be placed on any assembly to aid designers in grading corridors. Code set styles were updated to include additional link codes: “Table_Cut_5” and “Table_Fill_5”. Cut and Fill tables can be displayed with “_MDT-Subassembly All Codes” and “MDT Corridor - Design” code set styles. Subassemblies are accessed from the MDT Auxiliary Subassemblies palette. Updated the MDT Civil 3D Subassembly and Assembly guide.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Cut Table.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Cut Table_1-0.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Fill Table.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Fill Table_1-0.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt Other Non-State Kit File(s): 2024StateKit-Asm_Subasm.pdf (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.3.0)	01/27/26	MDT Lane Subassembly - Datum Surface Code w/Construction Slope MDT Lane subassembly does not have a datum surface code when using the construction slope option.	MDT Lane subassembly updated to include Input/Output Parameters - L16 and L18 to support the datum surface code.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Lane.pkt C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg Other Non-State Kit File(s): 2024StateKit-Asm_Subasm.pdf (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	MDT Shoulder.pkt - Rounding, Pave Slope, Codes Pave Slope needs to respond to the selected superelevation similar to the base/subbase. In select cases, the rounding of the surfacing inslope was inconsistent with rounding up when ending with 5 or above or rounding down when 4 or below. When coding to label the point codes with the corresponding side (L or R), only the last code name listed was receiving the L or R suffix.	Updated the code in MDT Shoulder.pkt to address all 3 previously stated issues.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Shoulder.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Shoulder_1-2.pkt (new) Other Non-State Kit File(s): 2024StateKit-Asm_Subasm.pdf (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	MDT Tools: Renumber Layouts, Delete/Purge Blocks Tools to renumber layouts and purge blocks can save time.	1) Wrote commands. 2) Created “Number Layout Tabs” command 3) Created “Delete Blocks” command 4) Added code to the bundle source MDT2024-ToolsLayouts.lsp 5) Added code to the bundle source MDT2024-ToolsUtilities.lsp 6) Built the MDT2024-Tools.VLX 7) Added the VLX to the bundle 8) Added commands to MDT ribbons.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\MDT-Ribbon.cuix (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Measure Areas in Acres Need to have functionality to measure areas in acres.	Created Acre lisp file to measure objects in acres. Within the MDT Design tab on the ribbon added MDT Inquiry panel. Added the “Measure Acres” command to the MDT Inquiry panel. Created MDT-Area label style to measure objects in acres and place a text label on the object with the acreage value. Moved the “Total Length of Objects” command from the MDT Draw panel to the MDT Inquiry panel.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\MDT-Ribbon.cuix (updated) C:\mdoh\Bundle-Source_2024\MDT2024-Tools.VLX (updated) C:\mdoh\Bundle-Source_2024\MDT2024-ToolsUtilities.lsp (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.3.0)	01/27/26	Pipe Profile Crossing Style Edits Unable to visually identify the difference between existing and proposed pipes in the profile view when plans are plotted. Pipe crossing profile label styles (existing and proposed) for station callouts don't exist.	Pipe style "MDT DRNG-Pipe Crossing Pipe" and "MDT CN-Pipe Crossing Pipe" were updated to display crossing pipe hatching to the outer wall rather than wall hatching only, turn on the display of the crossing pipe hatch for the profile view direction, and use the Solid pattern for the crossing pipe hatching. New crossing profile label styles "MDT DRNG-Crossing Pipe Sta" and "MDT DRNG E-Crossing Pipe Sta" created for labeling pipes in profile view.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Drainage-Ref.dwt (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	PointSOtoUDP Tool Station and offset point data isn't accessible for automated/dynamic processes.	Added UDPs to start templates, put command in the MDT extension DLL, and added the command to the MDT ribbon. Added the USWI-ALIGNMENTS UDP (user defined properties) classifications in the start templates. Modified MDT extension source code to add PointSOtoUDP command. Built MDT extension dll. Added PointSOtoUDP command to ribbon. Wrote an AutoLISP routine to add the UDPs to existing or legacy drawings and added the command to the ribbon. Created a point table style that displays the alignment data - _MDT-PNESO	C:\MDOH\StateKit\Civil 3D\2024\Templates\Reference\30_MDT-UDPs.dwg (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDTExtension.dll (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\MDT-Ribbon.cuix (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-PointSurvParc-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\survey-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Proposed Features - Symbology Proposed line types or blocks for some proposed features are not available.	Created blocks for cattleguard and gate. Created new layer, C-FENC, and linetype, MDT_FENCE. Existing features will be dashed and proposed features will be solid as stated in the road design manual. Additional features and line types will be addressed in future State Kit releases.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Design.dwg (new) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT All Layers (Standard).las (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\Layers.xlsx (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Linetypes\linetypes.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Linetypes\MDT_Linetypes.lin (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Realignment Updates - Eng Apps & Resources Ribbon Links Engineering Apps and Resources webpage was retitled, including new url in support of the MDT organizational realignment. The Eng Apps & Resources links on the MDT Design and MDT Tools ribbons are broken.	The Eng Apps & Resources ribbon buttons and command were retitled to MDT Project Development and Delivery Resources with updated command directed to new url - https://www.mdt.mt.gov/business/dgtdlv/resources.aspx.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\MDT-Ribbon.cuix Other Non-State Kit File(s): 2024StateKit-Gen.docx	
2024.4	State Kit (v2.3.0)	01/27/26	Realignment Updates - Excel Manager Help Link Help button in Excel Manager opens to a Page Has Moved web page.	Help button path was updated in the Excel Manager template. Base files may be updated to correct the link for saved project Excel Manager files - https://www.mdt.mt.gov/other/webdata/external/esdc/library/Support-UpdateEMBaseFile.pdf.	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\00000000XXEMG001.xlsm	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.3.0)	01/27/26	Road-Layout - Table of Content & ADA Note revisions The note "NO SCALE" should be removed from the RD-Detail-ADA sheet layout. Scales are rarely used, and the plans are rarely printed. For consistency, scales are generally not shown and rarely used. The Control Diagram doesn't include the "& LEVEL DATA" shown in the Table of Contents. To maintain consistency, the note should read "CONTROL DIAGRAM" in the Table of Contents for both urban and rural blocks.	Removed "NO SCALE" label from the RD-Detail-ADA sheet layout. Removed the "& LEVEL DATA" under Table of Contents within the N-TOC-Urban and N-TOC-Rural blocks to read "CONTROL DIAGRAM".	c:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Notes.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Road-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	RD-Notes-Rural - Approach Note The Approaches note isn't used anymore on the note sheet. The note has been replaced by the Excel Approaches Frame.	Deleted the N-Approaches block from the Notes sheet. The Excel Approach summary frame has replaced the note.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Notes.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Road-Layouts.dwt (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Sheet Layout Blocks on Palettes (Blocks to Palettes) The blocks for sheet layouts are in a DWT file in the reference folder and not convenient to access.	Deleted the SSM-PROJPHASE and SSM-PROJMILESTONE text attributes from the border blocks and created as a new individual block, B-BorderPhaseMilestone. Created a new Sheet Template Blocks palette with all the blocks from the _MDT-Sheet-Ref.dwt file. The palette will provide a convenient place to access the sheet template blocks. The MDT Sheet Template Block palette can be accessed on the ribbon: MDT Tools > MDT Palette Groups.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Electrical-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Geometrics-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Hydraulics-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_RightOfWay-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Road-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Signing-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Utilities-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\Pln-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\Pln-Pln-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\Pln-Pro-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\Pro-Pro-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\XS-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\SheetTemplateBlocks\Palettes\10_MDT Sheet Template Blocks.atc (new) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\SheetTemplateBlocks\Palettes\Images*.png (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Startup.VLX (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\MDT-Ribbon.cuix (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Subassemblies - Multi Coding in PKT Files When coding to label the point codes with the corresponding side (L or R), only the last code name listed was receiving the L or R suffix.	Code was adjusted in each pkt file to support multi-coding, so each code name listed for a point would receive the appropriate suffix (L or R). Updated the Code Set Styles to support the updated codes.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT SlopeToSurfaceLink.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT ConnectSurfaceSlopeLinks.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Curb & Gutter.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Lane.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT OffsetOnSurfaceLink.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Sidewalk.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated) Other Non-State Kit File(s): 2024StateKit-Asm_Subasm.pdf (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.3.0)	01/27/26	Survey Query Updates Survey Queries come in but not functioning properly. Queries have setting set to “is equal to” which only brings in an exact match.	Revised the Operator in the survey query files to “Contains” instead of “equal to” to import points with suffix beyond the point name, e.g. “BOS01” vs. “BOS”. Specific file locations and U### were removed from the survey query files.	C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-XSFigures.qml (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-XSPoints.qml (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-BarrierFeatures.qml (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-DrainageFeatures.qml (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-DTMFeatures.qml (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-MiscFeatures.qml (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-NaturalFeatures.qml (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-RoadFeatures.qml (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-StructureFeatures.qml (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-SurveyFeatures.qml (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-UtilityFeatures.qml (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	Traffic Investigation Migration – Speed Study Speed Sheet Template Due to the migration from Bentley to Civil 3D, Traffic investigations speed studies require state kit development to create workflow process in Civil 3D.	Created a speed sheet template for traffic investigations to use when doing speed study projects. Template includes: MDT TRAFFIC PROF-Plan Profile View Style MDT ALIGN-Speed Study Label Alignment Labels Created a blocks library for speed study plans and all Traffic Operations called TO-Blocks.dwg. Blocks: TO-APP-ALLY, TO-APP-DW, TO-APP-FA, TO-INTPAVERD, TO-INTUNPAVEDRD, TO-SYM-85PB, TO-SYM-85PR, TO-SYM-LLPB, TO-SYM-LLPR, TO-SY-SN1, TO-SY-SN2, TO-SY-SN3, TO-SY-SN4, TO-SY-SN5, TO-TBL-001.	C:\mdoh\StateKit\Civil 3D\2024\Linetypes\linetypes.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Linetypes\MDT_Linetypes.lin (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Blocks\TO-Blocks.dwg (new) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Traffic-Layouts.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTTO_PlnSpeed.dwt (new)	
		01/27/26	Traffic Investigation Migration - Traffic Investigations Map Content Transportation commission traffic investigations maps require state kit development to be completed in Civil 3D.	A sheet template, custom blocks, and legends were created for the workflow of creating Maps added to the TO-Blocks.dwg. Blocks added are: TO-MAP-LGND, TO-MAP-MRKR, TO-MAP-SCL1000, TO-MAP-SCL1500, TO-MAP-SCL500, TO-MAP-STA, TO-MAP-STAPOINT, TO-SIGN-STRTNME	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Blocks\TO-Blocks.dwg (new) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Traffic-Layouts.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTTO_PlnSpeed.dwt (new)	
2024.4	State Kit (v2.3.0)	01/27/26	Traffic Investigation Migration - Update MDT Tool Ribbon Creating the Map Sheet Template has lead to needing access to it on the MDT Tools Ribbon	Create a link to the command in the ribbon to open a Map sheet.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Traffic-Layouts.dwt (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\MDT-Ribbon.cuix (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated)	
2024.4	State Kit (v2.3.0)	01/27/26	User Tool Palette Help Document File Name The User Tool Palettes Help document file is named StateKit-UserPalettes.pdf. This name does not align with other state kit documentation file names.	Created new 2024StateKit-UserPalettes.pdf file. Updated the user palette guide name in the MDT2024-ToolsPalettes.lsp file.	C:\mdoh\Bundle-Source_2024\MDT2024-ToolsPalettes.lsp (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.3.0)	01/27/26	Wetland Hatching Line Weight Wetland hatching pattern displays too dark on plans.	C-WETL-AREA-HTCH-E line weight adjusted from .010 to .006 and color edited from 92 to 93 so display is grey scale.	C:\mdoh\StateKit\Civil 3D\2024\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\Layers.xlsx (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT All Layers (Standard).las (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT RightOfWay.las (updated)	
2024.4	State Kit (v2.2.1)	08/21/25	MDT-Typical and MDT-Typical-Special Code Set Style When creating the typical section drawings using the Section View, need the ability to snap to specific points, e.g. lanes, shoulders, etc., for adding dimension lines and notes.	Created new MDT-Typical-Mill_Fill Code Set Style to use with creating mill/fill typical sections. Created new Link Styles: MDT-Typ-Base, MDT-Typ-Curb, MDT-Typ-Geotextile, MDT-Typ-Mill, MDT-Typ-Pave1, MDT-Typ-Subbase Bottom, MDT-Typ-Top, to enable snapping at corridor points when creating Typical Sections and placing dimension lines. For the MDT-Typical, MDT-Typical-Special, and MDT-Typical-Mill_Fill Code Set Styles, assigned corresponding MDT-Typ-* Link Style to each required Link.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\survey-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\design-group.dwt (updated)	
2024.4	State Kit (v2.2.1)	08/21/25	Assembly Drawing Parameters Some of the parameters are set incorrectly in the MDT_Rural_2_Lane, MDT_Urban_2_Lane-Sidewalk, MDT_Ramp, and MDT_Rural_Divided drawing files. The MDT Civil 3D Subassembly and Assembly Guide will need to be updated for these corrections.	Edited the parameters in the Assembly Properties Construction tab in the MDT_Rural_2_Lane, MDT_Urban_2_Lane-Sidewalk, MDT_Ramp, and MDT_Rural_Divided drawings to the correct information. Updated the MDT Civil 3D Subassembly and Assembly Guide text and screen shots.	C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg (updated)	
2024.4	State Kit (v2.2.1)	08/21/25	GuideSIGN STARTUP Variable STARTUP variable is setting to 0 when GuideSIGN is not installed.	Edited start up settings to detect a GuideSIGN folder within C:\Program Files\Transoft Solutions for setting STARTUP variable to 0 with command line startup message “STARTUP set to 0 for Transoft users.”. If a GuideSIGN folder isn’t found, the STARTUP variable should be set to 2 with command line startup message “STARTUP set to 2.”	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Startup.VLX (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Adjust RD Notes Pages Asphalt Binder and Seal In the Basis of Plan Quantities section for the RD notes “Seal” needs to be changed to “Emulsified Asphalt Seal” to match what is on the typical sections summary sheet.	The RD-Notes block was adjusted to say Emulsified Asphalt Seal.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Notes.dwg (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Conversion of Photogrammetry template file from MicroStation to Civil 3D MicroStation template file I use for photogrammetry mapping information only and it has data fields in it. I would like the file made into a AutoCAD file.	A Photogrammetry Template file was created and added to the speed sheet folder in the speed sheet .dwt files.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTPH_FlightLog.dwt (new)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.2.0)	07/18/25	Custom Line Style for Flight Line Need a custom line style (Flight) for aerial flight planning that can be adjusted for the scale of the flight.	Dynamic blocks were created for the 10 different flight types. Flight types are: PH-GSD-2.0 PH-GSD-2.5 PH-GSD-3.0 PH-GSD-3.5 PH-GSD-4.0 PH-GSD-4.5 PH-GSD-5.0 PH-GSD-5.5 PH-GSD-6.0 PH-GSD-12.0 Also 5 layers have been added for Photo to differentiate colors when using flight line blocks. Layers assed are: VA-FLGT-PATH-0001 VA-FLGT-PATH-0002 VA-FLGT-PATH-0003 VA-FLGT-PATH-0004 VA-FLGT-PATH-0005 MDT_PH_FLIGHT linetype was deleted from the linetypes.dwg and MDT_Linetypes.lin.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\PH-Plan.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\Layers.xlsx (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT All Layers (Standard).las (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT-LayerFilters.lft (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\survey-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Linetypes\linetypes.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Linetypes\MDT_Linetypes.lin (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	As-Built Components The as-built process involves adding notes reflecting construction modifications to the plans sets delivered from Design. As-built layer, pipe styles, multileader, and label styles are needed in the State Kit to support the as-built process.	Layer CN-ASBT is created with weight 0.012 and color red. Layer Filter “Construction” created to easily filter new layer. Multileader style “_MDT STD-Arial Italic .06 - Color” is created having color set to ByLayer for use with new layer CN-ASBT to display as-built labeling red. Note label style “MDT CN-As-Built” created for general as-built notes and labels using Text Style MDT Arial Bold Italic and new layer CN-ASBT and attributes with arrowhead and visible leader drag state properties. Pipe styles MDT CN-Double Line, MDT CN-Pipe Crossing Pipe, using new layer CN-ASBT and attributes are created.	C:\mdoh\StateKit\Civil 3D\2024\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\Layers.xlsx (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT All Layers (Standard).las (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT-LayerFilters.lft (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Drainage-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\survey-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Annotation\Multileaders.dwg (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	PNEZD+Sta/Off Point Table Style - Project Explorer Need a COGO point table showing PNEZD and Sta/Off.	Created MDT PNEZD+STA OFF.xmpt Project Explorer Layout Style for points in point groups. Set precision to nearest 0.001 ft.	C:\mdoh\StateKit\Civil 3D\2024\Tools\Project Explorer\MDT PNEZD+STA OFF.xmpt (new)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.2.0)	07/18/25	<u>New Label Styles for ADA details</u> ADA Detail label styles are needed for use when developing ADA details and adding labels/call outs.	Developed ADA detail label styles. Set the Leader Justification to “false” in the dragged state for all Surface and Alignment styles. General > Label Styles > Line & Curve: MDT-Grade Only-ADA, MDT-Grade Only-ADA FL Surface > Label Styles > Spot Elevations: MDT-FS, MDT-TBC FL FG, MDT-TBC FL FG - 3 in Curb, MDT-TBC - 4 in Curb, MDT-TBC FL FG - 5 in Curb, MDT-TBC FL FG - Laydown Curb, MDT-TBC FL FG - Laydown Curb Spill, MDT-TRW FS Alignment > Label Styles > Station Offset: MDTDET-C&G (Beg) MDT DET-C&G (End) MDTDET-C&G and Sidewalk (Beg) MDT DET-C&G and Sidewalk (End) MDTDET-Radius (Beg) MDTDET-Radius (End) MDT DET-Radius and C&G (Beg) MDT DET-Radius and C&G (End) MDT DET-Radius and C&G and Sidewalk (Beg) MDT DET-Radius and C&G and Sidewalk (End) MDT DET-Radius Center MDT DET-Sidewalk (Beg) MDT DET-Sidewalk (End) MDT DET-X.X’ TBC Radius Center	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-AlnProfSuper-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\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_Start-Dwg\design-start.dwt (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	<u>Access Control Line Types</u> The access control line types include new r/w line, need process to place access control line symbology without a line to display on previous drawn lines. The access control symbols are too far apart, and color blue.	Removed the line drawn in lineytpes MDT_EFAC and MDT_ELAC1 so it will only draw the symbols. Created new linetypes for MDT_EFAC1 and MDT_ELAC that will draw symbols and a line. Set the default linetype for layers RR-ACCS and RR-ACC-E to “continuous”. Reduced and adjusted the spacing of the text and symbol size for the access control lines. Created a lisp file to offset and set the properties of the access control lines. Created an Access Control palette with predefined attributes for each access control type. The access control linetypes offset the correct distance according to the annotation scale set in the drawing. The offset distance was slightly increased on the palette to improve the visibility of the access control line and text, e.g. 1”=200' - offset distance was changed from 5' to 7'.	C:\mdoh\StateKit\Civil 3D\2024\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) C:\mdoh\StateKit\Civil 3D\2024\Linetypes\linetypes.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Linetypes\MDT_Linetypes.lin (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\RightOfWay\Palettes\20_MDT RW Access Control.atc (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.2.0)	07/18/25	Electrical Wire Tags Labeling Wire tag block is needed for omni directional use, from points on a Triangle symbol with an internal character tag.	Two multileader styles were created. The MDT ELC-Wire Tag_Top multileader attaches the leader line to the top point of the triangle shaped tag. The MDT ELC-Wire Tag_Side multileader attaches the leader line to either side of the bottom point on the triangle symbol.	C:\mdoh\StateKit\Civil 3D\2024\Annotation\Multileaders.dwg (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Cross Section Labels - Offset Labels Corridor and feature line labels overlap on the cross sections where they exist in close proximity to each other.	“MDT XS-Elevation Offset” section label style for corridor points was created with corresponding “MDT XS-Elevation Offset” label set style with a setting that will stagger the elevation/offset corridor labels when in conflict. Use of this label style is accomplished with command CORRIDORSECTIONLABELSCONV. Additional marker and feature line styles were created along with corresponding blocks for substitution when labeling feature lines on cross sections that are in conflict with other labels. Marker styles, feature line styles, and blocks having a suffix “_RT” or “_LT” are created with an offset to the left or right for commonly labeled features that will display staggered labels.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-SampSectMass-Ref.dwt (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	R/W Layer States Layer states to support r/w processes are needed.	Created MDT Right of Way layer state to change and display the desired layer properties for r/w plan production.	C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT RightOfWay.las (new)	
2024.4	State Kit (v2.2.0)	07/18/25	Subassembly and Assembly - MDT Lane & MDT Shoulder - Unique point code names Unique point code names are needed for corridor features lines to support labeling and construction software. Using an alternate subassembly in lieu of MDT Daylight with Subbase for the assembly end condition results in a gap between the shoulder subassembly and the hinge point.	Updated MDT subassemblies to automatically (Point Code Location Suffix) append a Left (_L) and Right (_R) to each point code name. The AddSideCode value was set to Automatic in the pkt files. Updated subassemblies with option to create Custom Point Code Suffix by changing the Point Code Location Suffix value from Automatic to Custom Suffix and editing the Custom Point Code Suffix value. Refer to “MDT Civil 3D State Kit Subassembly and Assembly Guide” for further information. Updated all assembly drawings with MDT Lane and MDT Shoulder. The MDT Shoulder subassembly was updated to remove Top codes from L2 and L8 adding a Top code to L10 for default Input values. This adjustment can be repeated in the assembly properties by the user for MDT Shoulder subassemblies used prior to this update as these code changes will not update.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT ConnectSurfaceSlopeLinks.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT ConnectSurfaceSlopeLinks_1-0.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightSubbase_1-3.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Lane.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Lane_1-1.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT OffsetOnSurfaceLink.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT OffsetOnSurfaceLink_1-3.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Shoulder.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Shoulder_1-1.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT SlopeToSurfaceLink.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT SlopeToSurfaceLink_1-3.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\assembly-start.dwt (updated) Other non-state kit files: 2024StateKit-Asm_Subasm.pdf (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.2.0)	07/18/25	Subassembly and Assembly - MDT DaylightSubbase - Unique point code names Unique point code names are needed for corridor features lines to support labeling and construction software.	Updated MDT subassemblies to automatically (Point Code Location Suffix) append a Left (_L) and Right (_R) to each point code name. The AddSideCode value was set to Automatic in the pkt files. Updated subassemblies with option to create Custom Point Code Suffix by changing the Point Code Location Suffix value from Automatic to Custom Suffix and editing the Custom Point Code Suffix value. Updated the Geotextile Outside Edge Offset to be an editable parameter. Refer to “MDT Civil 3D State Kit Subassembly and Assembly Guide” for further information. Updated all assembly drawings with MDT Daylight with Subbase.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightSubbase.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightSubbase_1-3.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\assembly-start.dwt (updated) Other non-state kit files: 2024StateKit-Asm_Subasm.pdf (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Subassembly and Assembly - MDT Sidewalk - Unique point code names Need to adjust point, link, and shape codes in Sidewalk.pkt to match updated MDT subassembly naming convention. Unique point code names are needed for corridor features lines to support labeling and construction software.	Updated MDT subassemblies to automatically (Point Code Location Suffix) append a Left (_L) and Right (_R) to each point code name. The AddSideCode value was set to Automatic in the pkt files. Updated subassemblies with option to create Custom Point Code Suffix by changing the Point Code Location Suffix value from Automatic to Custom Suffix and editing the Custom Point Code Suffix value. Refer to “MDT Civil 3D State Kit Subassembly and Assembly Guide” for further information. Updated point, link and shape code to match MDT subassembly naming convention. New Point Codes with (_L) and (_R) suffixes were created for each applicable point code.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Sidewalk.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Sidewalk_1-0.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\assembly-start.dwt (updated) Other non-state kit files: 2024StateKit-Asm_Subasm.pdf (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.2.0)	07/18/25	MDT Curb & Gutter Subassembly A subassembly is needed to represent MDT curb types.	Developed new subassembly “MDT Curb & Gutter” with options for various MDT curb types. Included functionalities for targeting and dimension adjustments. “MDT Curb and Gutter” was removed from the MDT Subassemblies tool palette. MDT Urban 2 Lane - Sidewalk was updated with new “MDT Curb & Gutter” subassembly. Imported new codes into Code set styles “_MDT-Subassembly All Codes” and “MDT Corridor - Design”. New Link codes - “Curb_Gutter”, “Curb_Face”, “Curb_Top”, “Curb_Base”, “Curb_Subbase”, “Curb_Subbase_Bot”, “Curb_Berm”; new Point Codes: Curb_Face”, “Curb_Front_Gutter”, “Curb_Flowline_Gutter”, “Curb_Top_Front”, “Curb_Top_Back”, “Curb_Top_Front_Base”, “Curb_Top_Back_Base”, “Curb_Top_Front Subbase”, “Curb_Top_Back_Subbase”, “Curb_Bot_Front_Subbase”, “Curb_Bot_Back Subbase”, “Curb_Berm”. New Shape Codes - “CurbBase”, “Curb_Subbase”. New Point Codes were created for each applicable point code with (_L) and (_R) suffixes. Created new Link Style “MDT Curb”. Renamed Link Style “MDT Curb - Top” to “MDT 2022-Curb - Top”.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Curb & Gutter.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Electrical Detail Block (EL-ADFL2, EL-VMS, EL-RAD) Updates Need to update and add blocks to the EL-Standard Details library.	Added/updated EL-Standard Details block library. Updated: EL-ADFL2 and EL-VMS-Detail, EL-CRFB, EL-LS, and EL-LRFD New: EL-RAD and EL-Conduit_Cabinet	C:\mdoh\StateKit\Civil 3D\2024\Blocks\EL-Standard Details.dwg (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Centerline Coordinate Table Title Revisions Need to include “CENTERLINE COORDINATE TABLE” in the title of the Centerline Coordinate table and the horizontal alignment name needs to be noted in the title or under the summary frame.	Created MDT Centerline Coordinate Table.xmpp Project Explorer Preference file to prepopulate the table title. Centerline Coordinate Tables in Autodesk process documentation was updated to support this new file.	C:\mdoh\StateKit\Civil 3D\2024\Tools\Project Explorer\MDT Centerline Coordinate Table.xmpp (new)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.2.0)	07/18/25	User Palette .atc Help Guide Path User palette help guide is linked from the “User Palette Group” “Main” palette to a path in MDT Civil 3D State Kit C:\mdoh\StateKit\Civil 3D\2022\Help folder which is not maintained for State Kit release 2024 and beyond. Files in the User folder (C:\mdoh\StateKit\Civil 3D\User) are not overwritten with State Kit updates to preserve user edits.	A script has been developed to edit the user palette help guide file path in the "C:\mdoh\StateKit\Civil 3D\User\Toolpalette\Palettes\UserMain.atc" to use a command where the path will be maintained from the State Kit bundle going forward. The MDT State Kit Updater has been updated to support this capability and similar future needs.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\Tools\ScriptRun.bat (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\Tools\UpdateUserMainAtcHelp.vbs (new) C:\mdoh\StateKit\Civil 3D\User\Toolpalette\Palettes\UserMain.atc (edited) C:\mdoh\StateKit\Civil 3D\2022\Help (deleted) C:\mdoh\StateKit\Civil 3D\2022\Help\2022StateKit-UserPalettes.pdf (deleted) C:\mdoh\StateKit\Downloads\MDTStateKit_2024\Source\FileRemoveList.txt (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	MDT Ditch Block Assembly An assembly to build ditch blocks for corridor modeling is needed.	“MDT Ditch Block” assembly has been developed and placed on the “MDT Assemblies” tool palette. Refer to “MDT Civil 3D State Kit Subassembly and Assembly Guide” for further information.	C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\20_MDT Assemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Images\MDT_Assembly_Ditch_Block.png (new) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ditch_Block.dwg (new) Other non-state kit files: 2024StateKit-Asm_Subasm.pdf (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	MDT Subassembly Design Aids Tool Palette A collection of subassembly design aids for assisting with design evaluation would be useful grouped together separately from design subassemblies.	A new “MDT Auxiliary Subassemblies” tab has been added to the “MDT Assemblies & Subassemblies” tool palette group. Included are previously deployed “MDT Connect Surface Slope Links” (with new image), new “MDT Cut Table”, and new “MDT Fill Table” subassemblies. “MDT Subassemblies” palette was updated to remove “MDT Connect Surface Slope Links” per its relocation.	C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\30_MDT Auxiliary.atc (new) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Images\MDT_Cut_TableSub.png (new) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Images\MDT_Fill_TableSub.png (new) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Images\MDT_Connect_Surface_Slope_Links.png (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Images\MDT_Connect_Surface_Slope_Links_dk.png (deleted) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Cut Table.pkt C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Fill Table.pkt Other non-state kit files: 2024StateKit-Asm_Subasm.pdf (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Assembly No Display The code set styles don’t allow for a no display assembly option when it’s undesirable to delete an alternate assembly.	Code set style _MDT-No Display was developed with all link, point, and shape codes set with no display styles.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.2.0)	07/18/25	GuideSIGN Version Update GuideSIGN version deployed at MDT has been updated to 2024.8.2.2.47 requiring reassessment of support paths. Duplicate support file search paths are populating for C:\Program Files\Common Files\Transoft Solutions\KTSFramework\Common\Fonts. With GuideSIGN use, frequent warnings to ignore or show proxy elements for GuideSIGN elements that aren't recognized as well as frequent Civil 3D crashing with GuideSIGN use are encountered.	SECURELOAD variable was updated from 0 to 1 in MDT_2024 profile and State Kit startup settings. All Transoft "ACAD" Support File Search Paths were removed from the MDT_2024 profile - C:\\Program Files\\Common Files\\Transoft Solutions\\KTSFramework\\Common\\Fonts All Transoft "Trusted Paths" Working Support File Search Paths were removed from the MDT_2024 profile - C:\\Program Files\\Transoft Solutions\\GuideSIGN 2024.8.2\\..., C:\\Program Files\\Common Files\\Transoft Solutions\\..., C:\\Program Files\\Transoft Solutions\\AutoTURN 11\\, C:\\Program Files\\Common Files\\Transoft Solutions\\ Startup detection added to startup settings if GuideSIGN is installed to set STARTUP variable to 0 rather than 2 with command line startup message "STARTUP set to 0 for Transoft users."	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Startup.VLX (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Resource\MDT_2024.arg (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.2.0)	07/18/25	EMG RDSUM Update Engineering Fonts are used in the Summary Frame examples.	Summary Frame Updates: 1) BARRIER_FENCING – Added a comment to the Deadman column (Show total only for Deadman based on the terrain). Added a comment to the Temp. Fence column (Show total only for Temp. Fence). 2) BARRIER_GRAIL_END_SECT_WIDENING – changed the column heading to GUARDRAIL END SECTION WIDENING to match bid item. 3) BARRIER_GUARDRAIL - Removed duplicate “High Tension Cable Rail” bid item columns. Added “Remove Cable Guardrail” bid item columns. 4) DRAINAGE_SUBSURFACE - Corrected Example link. 5) GRADE_BLASTING - Corrected Example link. 6) MISC_DRILL_PRESPLIT_HOLES – expanded the station column so it is the same as the other examples (4 rows at 22.5 height). 7) NOTES_APPROACHES – In the public subtotal row add 0.0 to the emulsified asphalt chfrs-2p column and filled in the tilde on private and farm field. 8) NOTES_WETLAND_DELINEATION – expanded the WETLAND AREA (acres) columns to the 17 width so words are not split. 9) SURF_OVERLAY - Moved AGG. TREAT. from Bituminous Materials. 10) SURF_OVERLAY_ADD_SURFACING - Moved AGG. TREAT. from Bituminous Materials. 11) SURF_OVERLAY_VOLUMETRIC - Moved AGG. TREAT. from Bituminous Materials. 12) SURF_OVERLAY_VOL_ADD_SURFACING - Moved AGG. TREAT. from Bituminous Materials. Corrected Example link. 13) SURF_OVERLAY_COMMERCIAL - Moved AGG. TREAT. from Bituminous Materials. 14) SURF_OVERLAY_COM_ADD_SURFACING - Moved AGG. TREAT. from Bituminous Materials. 15) SURF_RECON_SURFACING - Moved AGG. TREAT. from Bituminous Materials. 16) SURF_RECON_ADD_SURFACING - Moved AGG. TREAT. from Bituminous Materials. 17) SURF_RECON_SURFACING_CTB - Moved AGG. TREAT. from Bituminous Materials. 18) SURF_RECON_ADD_SURFACING_CTB - Moved AGG. TREAT. from Bituminous Materials. 19) SURF_TREAT_PAVE_MARKINGS – Turned bold off of “TEMPORARY STRIPING” row 17. 20) SURF_TREAT_RUMBLE_STRIPS - Corrected Example link. 21) SURF_CRACK_SEALING – Added the CRACK FILLING – MASTIC columns K and L and added the totals for pounds and linear feet. Added a comment about the Mastic measurement in the field. 22) STORM_DRAIN_PIPE - Corrected Example link. 23) STORM_DRAIN_STRUCTURES - Corrected Example link. Example Updates: 1) All examples updated from Engineering to Arial fonts. 2) UTILITY_MANHOLES – Removed # in title since it is on specific rows. 3) UTILITY_ADJUST_WATER_VALVE_ BOX – Added foot marks and periods to REMARKS column. 4) SURF_TREAT_PAVE_MARKINGS – un-bold totals for temporary striping and final sweep and broom. 5) SURF_RECON_ADD_SURFACING_CTB (Example 1) - Moved AGG. TREAT. from Bituminous Materials. Added rows above total. 6) SURF_RECON_ADD_SURFACING_CTB (Example 2) - Moved AGG. TREAT. from Bituminous Materials.	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Libraries\FramesLibrary_RDSUM.xlsx (Updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples*_*.pdf (Updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				6) SURF_RECON_ADD_SURFACING_CTB (Example 2) - Moved AGG. TREAT. from Bituminous Materials. 7) SURF_RECON_SURFACING_CTB (Example 2) - Moved AGG. TREAT. from Bituminous Materials. Updated how the bridge is shown at Station1303+08.86 to 1304+20.06. 8) SURF_RECON_SURFACING_CTB -Moved AGG. TREAT. from Bituminous Materials. Added total to hydrated lime. 9) SURF_RECON_ADD_SURFACING - Moved AGG. TREAT. from Bituminous Materials. 10) SURF_RECON_SURFACING - Moved AGG. TREAT. from Bituminous Materials. 11) SURF_OVERLAY_COM_ADD_SURFACING -Changed SEAL to EMULSIFIED ASPHALT. 12) SURF_OVERLAY_COM_ADD_SURFACING - Changed SEAL to EMULSIFIED ASPHALT. Moved AGG. TREAT. from Bituminous Materials. 13) SURF_OVERLAY_COMMERCIAL (Example 2) -Changed SEAL to EMULSIFIED ASPHALT. 14) SURF_OVERLAY_COMMERCIAL (Example 1) - Changed SEAL to EMULSIFIED ASPHALT. Moved AGG. TREAT. from Bituminous Materials. Updated to proper wording in remarks column. 15) SURF_OVERLAY_VOL_ADD_SURFACING - Changed SEAL to EMULSIFIED ASPHALT. Binder and emulsified asphalt rounded to tenth 16) SURF_OVERLAY_VOLUMETRIC - Changed SEAL to EMULSIFIED ASPHALT. Updated how the bridge is shown at Stations 661+94.00 to 663+04.00. Added a comment in the cell with “BRIDGE” - “If there is an ADD. SURF frame, this row should be there instead”. Added rows above total. Binder and emulsified asphalt rounded totals to tenth. 17) SURF_OVERLAY_ADD_SURFACING (Example 3 – Scrub Seal) - Changed SEAL to EMULSIFIED ASPHALT. Updated scrub seal emulsion total and added tilde to shoulder gravel on row 21. 18) SURF_OVERLAY_ADD_SURFACING (Example 2) – Changed SEAL to EMULSIFIED ASPHALT. 19) SURF_OVERLAY (Example 3 -Scrub Seal) –Changed SEAL to EMULSIFIED ASPHALT. Updated to proper wording in remarks column. 20) SURF_OVERLAY (Example 2 – Hot In-Place Recycling) –updated how the bridge stationing is shown between 701+81.00 and 855+52.10. Changed “SEAL” to “EMULSIFIED ASPHLT”. Moved AGG. TREAT. from Bituminous Materials. Updated to proper wording in remarks column 21) SURF_CRACK_SEALING – Added the CRACK FILLING – MASTIC columns and added the totals for pounds and linear feet. Added a comment about the Mastic measurement in the field. 22) STRUCTURE_RETAINING_WALL (Example 3) –Changed “#” in REMARKS to “NO.”. 23) STRUCTURE_RETAINING_WALL (Example 2) – Changed “#” in REMARKS to “NO.” 24) STRUCTURE_REMOVE – in the Remarks column add the words “, MDT NO.” to REMARKS. 25) NOTES_APPROACHES and NOTES_APPROACHES_COMMERCIAL (Example 3) – New example for Grade S PMS. 26) NOTES_APPROACHES (Example 3) – Remove “MEASURED ON CAD” note. 27) NOTES_APPROACHES (Example 2) – Changed PROPOSED SURFACE text R/W to LENGTH 28) NOTES_APPROACHES (Example 1)– Changed heading from SEAL to EMULSIFIED ASPHALT. Changed heading from C.L. TO R/W to LENGTH. 29) MISC_SCALING - unsquished station and remarks rows 30) MISC_ITEMS (Example 2) - changed the lump sum and note symbol & to * 31) MISC_DRILL_PRESPLIT_HOLES – unsquished station and remarks rows 32) MISC_CRAK_SEAT – added 3 rows above total 33) GRADE_UNCL_ADDGRADING – Removed the percentage on the topsoil – topsoil quantity should be divided throughout the frame. 34) GRADE_SPECIAL_BORROW – added 3 rows before total. 35) GRADE_EMB_ADDGRADING – added the 3 lines before subtotal. 36) GRADE_BLASTING – added column for Drill Presplit holes.		

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				37) EROSION_REVEGETATION – added column EROSION CONTROL BLANKET - LONG-TERM 38) EROSION_PERMANENT_EROSION_CONTR (Example 2) - added a period to some in the Remarks column 39) EROSION_GEOTEXTILE – formatted linear feet column. 40) DRAINAGE_SUBSURFACE - Changed frame name to TRENCH DRAIN. 41) DRAINAGE_IRRIGATION_STRUCTURES (Example 1) – removed the * in #4 rebar column. 42) DRAINAGE_CULVERT_RECAP – Changed “drainage pipe” to “DR”. 43) DRAINAGE_CULVERT_RECAP – added 2nd Example. 44) DRAINAGE_CULVERTS_OPT (Example 3) - moved numbers in columns to the right. Cu yards and sq yards. Corrected title note displaying numbers and symbols to read “(INCLUDED IN CULVERT SUMMARY RECAP)”. 45) DRAINAGE_CULVERTS_OPT (Example 2) - updated the remarks column from “Mainline” to “Drain or Irrigation or Remove”. Corrected title note displaying numbers and symbols to read “(INCLUDED IN CULVERT SUMMARY RECAP)”. 46) DRAINAGE_CULVERTS_OPT (Example 1) - corrected title note displaying numbers and symbols to read “(INCLUDED IN CULVERT SUMMARY RECAP)”. 47) DRAINAGE_APPROACH_PIPE - Corrected title note displaying numbers and symbols to read “(INCLUDED IN CULVERT SUMMARY RECAP)”. 48) CONC_CURB(1) – moved the # to the end of Remove Curb and Gutter to match others. 49) BARRIER_CONC (Example 2) - Added rows above total. 50) BARRIER_GRAIL_END_SECT_WIDENING – Changed pay item from SECTION WIDENING to GUARDRAIL END SECTION WIDENING. 51) BARRIER_FENCING (Example 6 – Farm Fence, Wildlife Friendly Fence & Fence-Panel Special Design) - Deleted 52) BARRIER_FENCING (Example 5 – Fence Panel – Special Design) – Added the subtotal for Eastbound and Westbound. 53) BARRIER_FENCING (Example 4 – Fence Panel – Special Design) - Updated the totals in the linear feet of fence and added Deadman total. 54) BARRIER_FENCING (Example 3 – 8’ Wildlife Fence & Panels) - Changed the number of Deadman to 34 instead of 110. 55) BARRIER_FENCING (Example 2 – Chain Link Fence) – Removed the “1” in the Deadman column and left the total at 8. Added the word “REMARKS” to the last column. Removed the * in the heading. 56) BARRIER_FENCING (Example 1 – Wildlife Friendly Fence and Jack Leg Fence) – Removed the numbers in the temporary fence column and left just the total.		

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.2.0)	07/18/25	MDT Arial Italic Text Style is Set to Regular Font Style Running the “Refresh All MDT Components” or the “Add Textstyles” tools from the MDT Ribbon incorrectly changes the MDT Arial Italic text font style from Italic to Regular font style.	Edited the MDTADDTSTYLES section in the MDT2024-ToolsUtilities.lsp file to include the Arial Italic font style so it will load the Arial Italic font when the “Refresh All MDT Components” or the “Add Textstyles” tools are run from the MDT Ribbon.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-ViewFrame-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Surface-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-SampSectMass-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-QTO-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-PointSurvParc-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-ObjectLayers-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-AlnProfSuper-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Drainage-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Modeling-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTHY_Summary.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTPH_survey-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTRD_Summary.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTRW_Ownership.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTSI_SignDesignCalcs.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTSI_SpecSum.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\X-MDT-Build-SpeedSheet.dwt (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Enlarged Assembly Points Numerous point symbols display as large magenta circles when placing subassemblies.	Marker style “MDT-Basic Circle” was created with size option “Use size in absolute units, 0.1 feet” and applied in place of _MDT-Default within “MDT-Corridor-Design” code set style.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated)	

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Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.2.0)	07/18/25	Block for ADA Labels Based on Unrounded Values ADA labels are based on unrounded values so a note is needed.	Added note, “SLOPE PERCENTAGES ARE AUTOMATED AND BASED ON UNROUNDED VALUES. THEREFORE, THEY MAY NOT CORRESPOND TO THE DISPLAYED ELEVATIONS.” to D-SheetBlocksADA block on the RD-Detail-ADA layout.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Road-Layouts.dwt (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	R/W Railroad Exhibit Legend Error The r/w railroad exhibit legend should have the easement shaded, license cross hatched, and construction permit hatched.	Edit the r/w railroad exhibit legend to display shade for the easement, cross hatch for the license, and hatch for the construction permit.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_RightOfWay-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	R/W DNRC Title Sheet - Engineer Stamp Need a DNRC title sheet with the engineer's stamp.	Created a layout for the DNRC title sheet and added the engineer stamp. The RW-Exhibit-Title is not used, renamed RW-Exhibit-Title to RW-Exhibit-USFS-Title and added the USFS signature block to the title sheet.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Linetype Symbol Size Linetype symbols for linear features are larger than plan sheet note text.	Reduced the linetype text to approximately half the current size. Increased the frequency of the text along the line since the text is smaller, less distance between the text. Deleted the MDT_RR linetype from the linetypes.dwg and MDT_Linetypes.lin. The MDT_RR linetype is a converted dgn linetype in the DGNlinetypes.dwt file.	C:\mdoh\StateKit\Civil 3D\2024\Linetypes\linetypes.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Linetypes\MDT_Linetypes.lin (updated) C:\mdoh\StateKit\Civil 3D\2024\Linetypes\DGNlinetypes.dwt (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	North Arrow on Layouts Need a dynamic north arrow with view port link.	Creating sheets already had the capability to use a north arrow block in sheet templates. Replaced the north arrow on all the plan sheet templates with MDT P-NorthArrow-TRS block.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\Pln-Pln-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\Pln-Pro-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\Pln-layouts.dwt (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Section View Command Settings Cross section workflow default settings are desired.	Unified Section View feature settings and command settings.	C:\MDOH\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt	
2024.4	State Kit (v2.2.0)	07/18/25	MDT SSWR Pipe Styles to Existing "MDT SSWR - Pipe Crossing Pipe" and "MDT SSWR - Singe Line" pipe styles aren't named following naming convention for existing pipe styles.	"MDT SSWR - Pipe Crossing Pipe" and "MDT SSWR - Singe Line" pipe styles were renamed to "MDT SSWR E - Pipe Crossing Pipe" and "MDT SSWR E - Singe Line", respectively.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Drainage-Ref.dwt (updated)	

MDT Civil 3D State Kit Updates

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2024.4	State Kit (v2.2.0)	07/18/25	MDT Assembly Daylight Hinge Point Attachment "MDT Rural 2 Lane" and "MDT Widening" assemblies have "MDT Daylight with Subbase" subassembly attachment points connected to the Edge_Subbase point rather than the Hinge point causing incorrect behavior when inslope extension values are used or in super elevation situations.	"MDT CRDR-Hinge" marker style (displayed as a white circle with white cross) was updated to display 3 times larger than other points to aid in proper selection when attaching "MDT Daylight with Subbase". "MDT Rural 2 Lane" and "MDT Widening" assemblies were updated for proper "MDT Daylight with Subbase" subassembly attachment.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg	
2024.4	State Kit (v2.2.0)	07/18/25	MDT Cut Table and MDT Fill Table Subassemblies A subassembly is needed for use as a tool to improve corridor grading efficiency.	Developed subassemblies "MDT Cut Table" and "MDT Fill Table" with cut and fill tables that can be placed on any assembly to aid designers in grading corridors. Code set styles were updated to include additional link codes: "Table_Cut_1", "Table_Cut_2", "Table_Cut_3", "Table_Cut_4", "Table_Fill_1", "Table_Fill_2", "Table_Fill_3", "Table_Fill_4", "Table_Cut_Daylight", "Table_LabelSlope". Cut and Fill tables can be displayed with "_MDT-Subassembly All Codes" and "MDT Corridor - Design" code set styles. Subassemblies are accessed from the MDT Auxiliary Subassemblies palette.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Cut Table.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Fill Table.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\30_MDT Auxiliary.atc (new) Other non-state kit files: 2024StateKit-Asm_Subasm.pdf (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	MDT Subassembly Tool Palette Commands "MDT Subassemblies" tool palette includes subassembly PKT file parameters that need to be updated with PKT updates.	"MDT Subassemblies" tool palette subassemblies were updated to use a command string to import the subassemblies into the drawing rather than having them imported on the tool palette. Commands for "CreateSubAssemblyTool" and "CreateSubFromPline" were updated to include "Macro Short Name" for the "Create From Macro" and "Create From Entities" "Subassembly Name Templates" values. The process of placing the subassemblies from the palette is identical.	C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\survey-start.dwt (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Typical Cut and Fill Block Variable Note Typical end condition blocks "VARIABLE" note don't include asterisk referencing note "*SEE CROSS SECTIONS FOR DEVIATIONS". T-EndCondition-LT-CutDitch and T-EndCondition-RT-CutDitch blocks don't include "VARIABLE" note.	"T-EndCondition-LT-CutDitch" and "T-EndCondition-RT-CutDitch" blocks were updated to include "* VARIABLE" note. "T-EndCondition-LT-CutVDitch", "T-EndCondition-RT-CutVDitch", "T-EndCondition-LT-Cut", "T-EndCondition-RT-Cut", "T-EndCondition-LT-Fill", and "T-EndCondition-RT-Fill" blocks were updated to include an asterisk to display note as "* VARIABLE". Additional edits to adjust slope and "* VARIABLE" note label rotation to align with and space consistently above/below slope lines.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Typicals.dwg (updated)	

MDT Civil 3D State Kit Updates

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2024.4	State Kit (v2.2.0)	07/18/25	GRND Points Display White GRND miscellaneous ground points display white resembling miscoded points making it hard to quickly identify miscellaneous ground points from miscoded points.	V-GRND-MISC-NODE-E and V-GRND-MISC-SYMB-E layer colors were updated from white to green (70).	C:\mdoh\StateKit\Civil 3D\2024\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\Layers.xlsx (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT All Layers (Standard).las (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\survey-start.dwt (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	DGN Linetype Plotting DGN linetypes are printing as a continuous line (MDT_CANTILEVER, MDT_CATG_E, MDT_CULV_E, MDT_GUY, MDT_GATE, MDT_JERSEY_E, MDT_RR, MDT_SIGN-MULTI, MDT_SIGN-SINGLE, and MDT_TREEROW).	DGNLinetypes template reference file detached from design-start.dwt and survey-start.dwt. The DGNlinetypes will not be recoverable if purged using the MDT Tools ribbon > Component Tools > Add Linetypes or Refresh All MDT Components ribbon buttons nor by importing the MDT_linetypes.lin. They may be recovered by reattaching C:\mdoh\StateKit\Civil 3D\2024\Linetypes\DGNLinetypes.dwt as a template reference then detaching it again.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\survey-start.dwt (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Signing Speed Sheet and Excel SISUM - Standards Updates The Sign Design Calculations and Specification and Summary templates require updating to clarify standards and support procedures.	MDTSI_SignDesignCalcs.dwt was updated to correct the viewport layer in the sheet 1 layout. MDTSI_SpecSum.dwt template notes and abbreviations updated as well as corresponding changes in the #####000SISUM001.xlsm. Alternate S1 template removed from model space.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTSI_SpecSum.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTSI_SignDesignCalcs.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\#####000SISUM001.xlsm (updated)	
2024.4	State Kit (v2.2.0)	07/18/25	Block RD-Typicals References itself When placing the RD-Typicals block library from the blocks palette, warning "Block RD-Typicals references itself" is displayed in the command prompt.	RD-Typicals library block RD-Typicals was renamed to “RD-Typical”.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Typicals.dwg (updated)	
2024.4	State Kit Updater (2024.1.0.5)	07/18/25	Running Scripts with State Kit Updates The State Kit Updater allows for running scripts with state kit installations and requires a State Kit Updater update.	The State Kit Updater was updated to read an MDT Civil 3D State Kit delivered file at C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\Tools\ScriptRun.bat allowing for scripts to be managed with MDT Civil 3D State Kit updates.	MDT StateKit Updater V2024.1.0.5.msi (updated) Installed Files Updated: C:\Program Files\MDT\MDT StateKit Updater\MDT StateKit Updater.exe State Kit Files Updated: C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\Tools\ScriptRun.bat (new)	
2024.4	State Kit (v2.1.1)	04/22/25	SISUM Excel Sign and Image Update 1 sign name and image for spreadsheet needed to be updated.	Changed name and image in spreadsheet.	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\#####000SISUM001.xlsm (updated)	
2024.4	State Kit (v2.1.1)	04/22/25	Signing Spec/Sum Note Incorrect note about quantities on summary page of speed sheet template.	Corrected note in drawing template.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTSI_SpecSum.dwt (updated)	
2024.4	State Kit (v2.1.1)	03/21/25	SISUM Excel Update Too many notes are going into the remarks column when using the Excel SISUM files.	An action column was added to the spreadsheet.	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\#####000SISUM001.xlsm (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit (v2.1.1)	03/21/25	QMG/EMG with Bentley Uninstall The Quantity Manager used within the Bentley Workspace and the Excel Manager used within the State Kit encounter a Microsoft Visual Basic for Applications Compile error “Can’t find project or library” when running the Quantity Manager/MDT Excel Manager without MicroStation installed.	The MDT Excel Manager was updated to disconnect Bentley MicroStation DGN 8.9 Object Library from the references for the VBA project. This will need to be repeated for all EMG MDT 2024: v01.00.00 files created prior to this update. All QMG MDT 2020: v02.10.00 and earlier files will need to be updated to use the latest template - https://www.mdt.mt.gov/other/webdata/external/esdc/library/Support-UpdateEMBaseFile.pdf.	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\00000000XXEMG001.xlsm (updated)	
2024.4	State Kit (v2.1.1)	03/21/25	Edit command in Lisp file to point to Notepad MDTLICENSE lisp command displays black text on a black background, can’t read it. This is dependent on Windows default app mode color settings. Displays text corectly when the default app mode is set to “dark”. The “Copyright 2021-2024 by MONTANA DEPARTMENT OF TRANSPORTATION” in the MDT_CADD_EULA.txt file needs updated to 2025.	Changed command in Lisp file to point to Notepad instead of the Autodesk window. Updated the copyright date in the MDT_CADD_EULA.txt file to 2025.	C:\mdoh\Bundle-Source_2024\MDT2024-ToolsUtilities.lsp (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT_CADD_EULA.txt (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated)	
2024.4	State Kit (v2.1.1)	03/21/25	Dynamic Section View - Code Set Styles Display circles are showing in the section view of the Section Editor.	Changed the feature line style “MDT-No Display” section crossing marker style to “MDT-No Markers”	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\design-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\survey-group.dwt (updated)	
2024.4	State Kit (v2.1.1)	03/21/25	Update Highways Engineer Stamp for Dave Holien The Highways Engineer stamp and PE number needs to be updated for Dave Holien, the new Highways Engineer.	Updated the C-MDT_SEAL_BLOCK block and layout files.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt - C-MDT_SEAL_BLOCK (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Electrical-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Road-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Signing-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Utilities-Layouts.dwt (updated)	
2024.4	State Kit (v2.1.1)	03/21/25	Link MDT Support Button to New Page MDT Support button on ribbon needs to be linked up to new support request page.	Changed the path to the internal/external link. https://montana.servicenowservices.com/citizen?id=sc_cat_item&sys_id=13ac75551bc1091049e0ed3ce54bcb3d	C:\mdoh\Bundle-Source_2024\MDT2024-ToolsUtilities.lsp (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated)	
2024.4	State Kit (v2.1.1)	03/21/25	MDTLICENSE Lisp File MDTLICENSE lisp command displays black text on a black background, can’t read it. This is dependent on Windows default app mode color settings. Displays text if default app mode is set to “dark”.	Changed command in Lisp file to point to Notepad instead of the Autodesk window. The “Copyright 2021-2024 by MONTANA DEPARTMENT OF TRANSPORTATION” in the MDT_CADD_EULA.txt file needs updated to 2025.	C:\mdoh\Bundle-Source_2024\MDT2024-ToolsUtilities.lsp (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT_CADD_EULA.txt (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Survey Block Annotation□ Priority: MEDIUM□ Survey blocks aren't annotative, and some vary in size when processed from csv.□	Renamed blocks to group the blocks, V_*, VL_*. Revised survey blocks to annotative and edited the blocks to correct size and scale. Adjusted point styles “Use drawing scale” value to scale points to the correct size.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\ _MDT-PointSurvParc-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\10_MDT-PointBlocks.dwg (new-updated)	

MDT Civil 3D State Kit Updates

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2024.4	State Kit □ (v2.1.0)	01/31/25	Point Blocks as Components□ Priority: HIGH, Complexity: MODERATE□ Point blocks need to be split as separate components so they may be inserted into drawings without reference attachment.□	Created new 10_MDT-PointBlocks.dwg file and inserted the point blocks from _MDT-PointSurvParc-Ref.dwt file. Deleted the point blocks in _MDT-PointSurvParc-Ref.dwt file. Attached the 10_MDT-PointBlock.dwg as a Reference Template to the _MDT-PointSurvParc-Ref.dwt file.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\10_MDT-PointBlocks.dwg (new) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\ _MDT-PointSurvParc-Ref.dwt (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Survey database enhancements□ Priority: HIGH, Complexity: MODERATE□ Enhancements to the survey database such as survey queries, point description keys, and figure prefix databases are requested to create efficiencies in road design workflows, namely the cross sections process.□	Added Description Key Sets and Survey Figure Styles to MDT-PointSurvParc-Ref.dwt file. Survey queries were created to specific figures and points for projections on cross sections Users will use the MDT Figure Prefix Database when importing survey data for cross sections and will need to add the survey query files in the survey database from the Tools folder. Before importing queries, the user will need to set the default Description Key Sets to MDT V-description Keys_XS in the cross sections. To set the default, right click on Point > Description Key Sets> and select Properties. The default description key needs to be at the top of the list.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\survey-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\ _MDT-PointSurvParc-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Survey\MDT Figure Prefix Database.fdb_xdef (updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-BarrierFeatures.qml (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-DrainageFeatures.qml (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-DTMFeatures.qml (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-MiscFeatures.qml (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-NaturalFeatures.qml (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-RoadFeatures.qml (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-StructureFeatures.qml (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-SurveyFeatures.qml (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-UtilityFeatures.qml (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-XSFigures.qml (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\Survey Queries\MDT-XSPoints.qml (new)	
2024.4	State Kit □ (v2.1.0)	01/31/25	MDT Survey-(Control Abstract) point table style update□ Priority: LOW, Complexity: SIMPLE□ Header in the control abstract table for the Point Name/Number column needs to have the backslash changed to a forward slash to read correctly.□	Changed the slash in the heading for Point Name/Number column to be a forward slash instead of a backslash.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-PointSurvParc-Ref.dwt (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Survey Description Key Maintenance Button□ Priority: MEDIUM□ Description keys are not a feature that can be referenced through templates. Updates of description keys in existing files would require a series of manual steps and accessing unfamiliar state kit files.□	Added tools on the MDT Ribbon to add Description Key Sets to existing drawings. The tools are on the MDT Tools tab under MDT Components. Additionally, edited MDT Components menu behavior to have a static image to access tools via the pulldown only.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\en-US\MDTDKS.csv (deleted) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\20_MDT-DKSSU.dwg (new) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\21_MDT-DKSXS.dwg (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\MDT-Ribbon.cuix (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\en-US\MDT V-Description Keys_SU.csv (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\en-US\MDT V-Description Keys_XS.csv (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\images\Tool_Box16.png (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\images\Tool_Box32.png (new)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit □ (v2.1.0)	01/31/25	Earthwork Block, Layer, and Styles□ Priority: HIGH□ Layer, block, styles, and settings are needed in the State Kit for creating material lists, producing volume reports, adding earthwork values to cross sections, and plotting mass haul diagrams.□	Added layer (C-MASS-VIEW), block (XSC_Mass_Haul_Layout_Aid), styles (MDT-Quantity Takeoff, MDT-Mass Haul Line, MDT-Mass Haul View), and style sheet (_MDT_Earthwork.xsl) for creating material lists, producing volume reports, adding earthwork values to cross sections, and plotting mass haul diagrams.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-XS.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-SampSectMass-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated) C:\ProgramData\Autodesk\C3D 2024\enu\Data\Quantities Report Style Sheets\xsl_MDT_Earthwork.xsl (new) C:\mdoh\StateKit\Civil 3D\2024\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\Layers.xlsx (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT All Layers (Standard).las (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT-LayerFilters.lft (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-QTO-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-ObjectLayers-Ref.dwt (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Plan Sheet Plot Date□ Priority: LOW□ Plan sheets have a date and time in the bottom right corner. Upon plotting, the date doesn't update. The field is set to "Save Date".□	The border block was updated to use the "Plot Date" field rather than the "Save Date" field.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\ _MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _Electrical-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _Geometrics-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _Hydraulics-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _RightOfWay-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _Road-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _Signing-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _Standard-Detail-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _Survey-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _Utilities-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\Pln-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\Pln-Pln-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\Pln-Pro-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\Pro-Pro-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\XS-layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\X-MDT-Build-SpeedSheet.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTHY_Summary.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTRD_Summary.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTRW_Ownership.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTSI_SignDesignCalcs.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTSI_SpecSum.dwt (new)	
2024.4	State Kit □ (v2.1.0)	01/31/25	R/W Layer filter State Kit Request□ Priority: LOW, Complexity: SIMPLE□ R/W needs layer filters to aid with sorting layers.□	R/W needs layer filters to aid with sorting layers.	C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT-LayerFilters.lft (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\survey-start.dwt (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	R/W Title Sheet Federal Aid Project No.□ Priority: MEDIUM, Complexity: SIMPLE□ The R/W title sheet project information title block doesn't include "Federal Aid Project" or "State Aid Project" text when applying sheet set manager custom properties.	The C-ProjectHeading block was updated to include visibility states for FEDERAL AID PROJECT and STATE AID PROJECT funding and added the text funding note ahead of the 01_FED_AID_NO field.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\ _MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _RightOfWay-Layouts.dwt (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit □ (v2.1.0)	01/31/25	Utility Title Sheet Federal Aid Project No.□ Priority: MEDIUM, Complexity: SIMPLE□ The Utility title sheet project information title block doesn't include "Federal Aid Project" or “State Aid Project” text when applying sheet set manager custom properties.	The C-ProjectHeading block was updated to include visibility states for FEDERAL AID PROJECT and STATE AID PROJECT funding and added the text ahead of the 01_FED_AID_NO field.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\ _MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _RightOfWay-Layouts.dwt (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Speed Sheet Template□ Priority: MEDIUM□ Speed sheets will be developed and will need similar layout for summary frame view frames.□	A template known as a speed sheet is introduced for creating functional area speed sheets. Additionally, layer adjustments to use MDT Civil 3D State Kit layers and remove stray objects was completed for MDTSI_SpecSum.dwt and MDTSI_SignDesignCalcs.dwt along with Notes and Abbreviations being placed in MDTSI_SpecSum.dwt.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\X-MDT-Build-SpeedSheet.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTSI_SpecSum.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTSI_SignDesignCalcs.dwt (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Plan Set Development Expediency-Road Design Summary□ Priority: MEDIUM□ Preparing summary sheet files with quantity frames in the layout requires extra steps to set text size for OLE objects as well as limits use by potential downstream processes. Quantity frames in the model requires repetitive work setting up viewports without any automation.□	A template known as a speed sheet is introduced for creating Road Design summary files.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTRD_Summary.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _Road-Layouts.dwt (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Plan Set Development Expediency-R/W Ownership□ Priority: MEDIUM□ Preparing ownership sheet files with ownership frame in the layout limits use by downstream processes. Ownership frames in the model supported by the MDT Excel Manager tool requires repetitive work setting up viewports without any automation.□	A template known as a speed sheet is introduced for creating Right of Way Ownership files. This replaces the RW-Ownership layout formerly inserted into drawing file with the MDT Sheet Layouts tool.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTRW_Ownership.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _RightOfWay-Layouts.dwt (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	MDT Slope to Surface Link viewing not adjusting correctly with slope parameter change□ Priority: MEDIUM□ On MDT Slope to Surface Link the parameters are not visually adjusting to be represented on the subassembly to the correct slopes in the parameter. When using in a model the slopes are correct to the parameters, but the visual does not change on the subassembly from 2:1 slope.	Adjusted the MDTSlopetoSurfaceLink display to the same value as in the cut and fill slope parameters on the subassembly settings.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT SlopeToSurfaceLink.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT SlopeToSurfaceLink_1-2.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit □ (v2.1.0)	01/31/25	MDTSlopeToSurface Link Subassembly Parameter Intercept Ref□ Priority: MEDIUM□ N/A□	Added a parameter reference in the assembly properties to link for number of intersects when targeting a surface. Parameter reference version was updated to 1.1. Updated version of MDT SlopeToSurfaceLink to 1.3. All code set styles for all the assemblies were updated.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Parameter Reference.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT Parameter Reference_1-0.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT SlopeToSurfaceLink.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT SlopeToSurfaceLink_1-2.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\20_MDT Assemblies.atc (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Spiral Curve Delta Labeling□ Priority: HIGH□ MDT ALGN-Design Spiral Curve label style is using the “Spiral_PI Included Angle” for the Text.2 component rather than the “Delta Angle” property resulting in a delta value being 180^ exaggerated. The LT and RT curve labels appear to be out of alignment with the curve delta data text line.□	Changed the text line 2 parameter in MDT ALGN-Design Spiral Curve, MDT ALGN-Existing Spiral Curve, and MDT ALGN-Site Spiral Curve spiral curve alignment labels to read the “Delta Angle” and read correctly when labeling a spiral curve. Adjusted component 5 and 6 for all 3 MDT-ALGN spiral curve labels to have a y offset of -.02” to align labels.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-AlnProfSuper-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\design-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Update A.A.D.T. on C-ProjectDesignData block□ Priority: LOW, Complexity: SIMPLE□ Design data block should show A.A.D.T. instead of A.D.T.□	Changed A.D.T. to A.A.D.T. to reflect traffic counts provided by Traffic Safety.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Road-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Electrical-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Signing-Layouts.dwt (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Block Layers and Fonts: RD-Notes□ Priority: LOW, Complexity: SIMPLE□ Text is not on correct State Kit layers GS-TEXT and GS-TITL, but all text is using Arial font.□	Adjusted notes blocks layers to be on the correct layers. Titles on GS-TITL and body of notes on GS-TEXT	C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Notes.dwg (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Block Layers and Fonts: RD-Typicals□ Priority: LOW, Complexity: SIMPLE□ Block layers don't follow layer naming convention or use Arial font.□	MDT Arial Italic text style was updated to be correct and have “Italic” for the font style. Created a new file and inserted the RD-Typicals.dwg, then was able to delete the Legend text style.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Typicals.dwg (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit □ (v2.1.0)	01/31/25	Change Drawing Unit Angle Type to Surveyor's Units (bearings)□ Priority: MEDIUM□ Drawing Units Angle Type default is set to Decimal Degrees. The Surveyor Units (bearings) setting is more applicable for design.□	Changed the Drawing Units Angle Type to Surveyor's Units with the precision set to N 0d00'00" E.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\survey-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\x-mdt-build.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\design-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\survey-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\assembly-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTHY_Summary.dwt (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTRD_Summary.dwt (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTRW_Ownership.dwt (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTSI_SignDesignCalcs.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTSI_SpecSum.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\X-MDT-Build-SpeedSheet.dwt (new-updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	VMS Detail in EL Standards□ Priority: MEDIUM□ VMS Detail block needs to be updated.□	Updated the EL-VMS-Detail block in the EL-Standard Details.dwg file.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\EL-Standard Details.dwg (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Electrical Blocks (Beacon, Luminaire, Weigh Station Detail)□ Priority: MEDIUM, Complexity: SIMPLE□ New beacon, luminaire, and weigh station standard detail blocks needed for electrical design.□	Added/updated EL-Detail and EL-Plan block libraries. EL-Detail: EL-CRFB (Circular Rapid Flashing Beacon), EL-RRFB (Rectangular Rapid Flashing Beacon), EL-LS (Luminaire Standards), EL-Foundation, EL-Decorative-LS, EL-WS EL-Plan: MDT RRFB_Symbol (Rectangular Rapid Flashing Beacon Symbol)	C:\mdoh\StateKit\Civil 3D\2024\Blocks\EL-Plan.dwg C:\mdoh\StateKit\Civil 3D\2024\Blocks\EL-Standard Details.dwg	
2024.4	State Kit □ (v2.1.0)	01/31/25	Excel Manager Automation□ Priority: HIGH, Complexity: MODERATE□ The Excel Manager supported with the Bentley toolset will need “Place” functionality to work in Civil 3D and comment indicators are displaying in Civil 3D despite being turned off during placement.□	The Excel Manager tool has been enhanced to support multiple libraries, Civil 3D placement, and suppression of comment indicator activation upon workbook open/close events.	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\00000000XXEMG001.xlsm (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Libraries\FramesLibrary_HYHDS-HYIDS.xlsx (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Libraries\FramesLibrary_RDSUM.xlsx (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Libraries\FramesLibrary_RWOWN.xlsx (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples*.pdf (new)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit □ (v2.1.0)	01/31/25	RDSUM/RDQMG Updates-Seeding, Asphalt Cement, Guardrail□ Priority: MEDIUM, Complexity: SIMPLE□ Road Design management requested updates to summary frames and examples.□	Seeding frame: update note on row 2: to read: "# FOR INFORMATION ONLY - INCLUDED IN THE COST OF SEEDING AREA NO.1 & SEEDING AREA NO. 3." Also changing the # to be in the bid item cell M6 and place tilde in total cell M30. Update comment in M30 to not include sod. Asphalt cement name changed to asphalt binder in all surfacing frames. Update examples to 58H-34. Update guardrail comment cell K6 regarding box beam guardrail length callout stations as well as needing 18' section attached to any terminal	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\GRADE_TOPSOIL_SEEDING (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\SURF_OVERLAY (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\SURF_OVERLAY_ADD_SURFACING (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\SURF_OVERLAY_COM_ADD_SURFACING (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\SURF_OVERLAY_COMMERCIAL (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\SURF_OVERLAY_VOL_ADD_SURFACING (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\SURF_OVERLAY_VOLUMETRIC (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\SURF_RECON_ADD_SURFACING (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\SURF_RECON_ADD_SURFACING_CTB (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\SURF_RECON_SURFACING (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\SURF_RECON_SURFACING_CTB (new-updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Excel Manager Initiation□ Priority: MEDIUM, Complexity: MODERATE□ The Excel Manager and Excel SISUM Template are inconvenient to open from the file path in File Explorer.□	“MDT Excel” panel with “MDT Excel Tools” selections “MDT Excel Manager” and “Excel SISUM Template” were added to the MDT Tools ribbon.	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\00000000XXEMG001.xlsm (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\MDT-Ribbon.cuix (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\images\MDT_ExcelTools16.png (new) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\images\MDT_ExcelTools32.png (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager#####000SISUM001.xlsx (deleted) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager#####000SISUM001.xlsm (new)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Generic Pole Survey Block□ Priority: HIGH, Complexity: SIMPLE□ A generic pole block is needed for photogrammetry surveys.□	Created block GP (Generic Pole) for photogrammetry survey use. For DI surveys, miscellaneous non-dtm point (MISCP) feature code will be used with resulting MND symbol. Generic Pole XS block created for cross sections.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-PointSurvParc-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\10_MDT-PointBlocks.dwg (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\20_MDT-DKSSU.dwg (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\21_MDT-DKSXS.dwg (new-updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\design-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\survey-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\survey-start.dwt (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Erosion Control Construction Limit Legend□ Priority: MEDIUM□ The construction limits legend is missing from the Erosion and Sediment Control BMP’s sheet.□	The construction limits legend was added to the lower right corner of the Erosion and Sediment Control BMP’s notes sheet.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Notes.dwg (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit □ (v2.1.0)	01/31/25	Change "Asphalt Cement" to "Asphalt Binder" in Road Plans□ Priority: MEDIUM, Complexity: SIMPLE□ "Asphalt Cement" is being changed to "Asphalt Binder" in the road plans.□	Changed "Asphalt Cement" to "Asphalt Binder" in the Basis of Plan Quantities, Approaches Notes, Mailboxes and Mailbox Turnout note, and Typical Section Quantities.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Notes.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Typicals.dwg (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Color and Grayscale CTB Files□ Priority: MEDIUM, Complexity: SIMPLE□ MDT - Grayscale.ctb, MDT - Color.ctb, and MDT - AllColor.ctb are carried over from the 2021 pre-release state kit. These CTB (plot style table) files have no identified function.□	Deleted MDT - Grayscale.ctb, MDT - Color.ctb, and MDT - AllColor.ctb plot styles. MDT - Standards.ctb honors layer colors assigned with a True Color value to support color plotting needs. MDT - Standards.ctb also allows for any colors applied to layers ending with a 1, 3, or 5 to be plotted in varying greyscale tones.	C:\mdoh\StateKit\Civil 3D\2024\Plotting\Plot Styles\MDT - AllColor.ctb (deleted) C:\mdoh\StateKit\Civil 3D\2024\Plotting\Plot Styles\MDT - Color.ctb (deleted) C:\mdoh\StateKit\Civil 3D\2024\Plotting\Plot Styles\MDT - Grayscale.ctb (deleted)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Excel Tools-Road Design QMG□ Priority: HIGH, Complexity: MODERATE□ Excel is used for summary sheet data to be inserted into drawing files. Need a location and delivery method for template(s) within or separate from the State Kit.□	A FramesLibrary_RDSUM.xlsx file was created containing summary frame template for use with the refurbished Excel Manager tool enhanced to support multiple libraries and Civil 3D placement. The delivery point will be solely within the MDT Civil 3D State Kit. The Excel Manager tool and supporting files for Bentley will continue to be accessed from the Bentley workspace. All other access points via the internet/intranet are removed.	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Libraries\FramesLibrary_RDSUM.xlsx (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\00000000XXEMG001.xlsm (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples*.pdf (new)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Block Layers and Fonts: HY-Details [Hydraulic Detail Block Layer Use]□ Priority: LOW, Complexity: MODERATE□ Block layers don't follow layer naming convention or use Arial font.□	Hydraulic detail block content updated to use new X-DETL layers, state kit dimension styles, text styles, and new MDT STD-Detail table style. Hydraulic Data Summary Sheet block (H-HDSE) was removed. The HDS now has its own layout and uses an OLE link and an Excel spreadsheet. New layers: X-DETL-DIMS X-DETL-LINE-BOLD X-DETL-LINE-FINE X-DETL-LINE-MEDM X-DETL-NPLT X-DETL-PATT-SCRN X-DETL-TEXT	C:\mdoh\StateKit\Civil 3D\2022\Blocks\HY-Details.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\layers.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\Layers.xlsx (updated) C:\mdoh\StateKit\Civil 3D\2024\Layers\MDT All Layers (Standard).las (updated) C:\mdoh\StateKit\Civil 3D\2024\Annotation\Tables.dwg (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit □ (v2.1.0)	01/31/25	HY Sheet Layouts Updates: Excel Table Point□ Priority: MEDIUM, Complexity: MODERATE□ The hydraulic and irrigation summary frame as copied from Excel needs to be placed at a consistent location in Civil 3D summary sheet. Preparing hydraulic and irrigation summary sheet files with quantity frames in the layout requires extra steps to set text size for OLE objects as well as limits use by potential downstream processes. Quantity frames in the model requires repetitive work setting up viewports without any automation.□	A template known as a speed sheet is introduced for creating hydraulic and irrigation summary files. The speed sheet template includes a line with an end point on no plot layer “X-MISC-NPLT” to move pasted hydraulic summary frame OLE objects to.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTHY_Summary.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _Hydraulics-Layouts.dwt (updated)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Excel Tools-R/W Ownership□ Priority: HIGH, Complexity: MODERATE□ Excel is used for ownership table data to be inserted into drawing files. Need a location and delivery method for template(s) within or separate from the State Kit.□	A FramesLibrary_RWOWN.xlsx file was created containing ownership table template for use with the refurbished Excel Manager tool enhanced to support multiple libraries and Civil 3D placement.	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Libraries\FramesLibrary_RWOWN.xlsx (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\00000000XXEMG001.xlsm (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\Ownership.pdf (new)	
2024.4	State Kit □ (v2.1.0)	01/31/25	Excel Tools-HY Summary Enhancements□ Priority: MEDIUM, Complexity: MODERATE□ Excel is used for hydraulic and irrigation summary data to be inserted into drawing files. To insert the linked OLE objects, manual selection, copying from Excel, and pasting the OLE object into Civil 3D is required.□	A FramesLibrary_HYSUM.xlsx file was created containing summary frame template for use with the refurbished Excel Manager tool enhanced to support multiple libraries and Civil 3D placement.	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Hydraulics\HydraulicDataSummary_IrrigationDataSummary.xlsx (Deleted) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Libraries\FramesLibrary_HYHDS-HYIDS.xlsx (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\HydraulicDataSummary.pdf (new) C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\Examples\IrrigationDataSummary.pdf (new)	
2024.4	State Kit □ (v2.1.0)	01/31/25	MSOLESCALE System Variable□ Priority: MEDIUM, Complexity: SIMPLE□ MSOLESCALE system variable is set to 1 making OLE insertions in the model oversized for 1:1 scale view frames.□	The MSOLESCALE system variable is stored within the drawing file. The MSOLESCALE value was set in each speed sheet template developed to accommodate each MDT Excel template: MDTHY_Summary.dwt - 0.5, MDTRD_Summary.dwt - 0.5, MDTRW_Ownership.dwt - 1.0, MDTSI_SpecSum.dwt - 0.5. Editing the MSOLESCALE value has only an effect on the OLE object being placed so may require edits for placing extraordinarily large OLE objects to fit within the sheet boundaries.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTHY_Summary.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTRD_Summary.dwt (new) C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\Speed Sheet\MDTRW_Ownership.dwt (new)	
2024.4	State Kit □ (v2.0.1)	11/26/24	Subassembly and Assembly Guide Tool Palette Link□ Priority: HIGH, Complexity: SIMPLE□ The MDT Civil 3D Subassembly and Assembly Guide on the MDT Subassemblies and MDT Assemblies tool palettes is linked to the Civil 3D 2022 version of the guide.□	The MDT Subassemblies and MDT Assemblies tool palettes were updated to correctly link the Civil 3D 2024 version of the MDT Civil 3D Subassembly and Assembly Guide.	C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\20_MDT Assemblies.atc (updated)	

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2024.4	State Kit □ (v2.0.1)	11/26/24	Update the Subassembly, MDT OffsetOnSurfaceLink.pkt□ Priority: HIGH, Complexity: SIMPLE□ There is an issue of finding a point on the surface within a given offset in the MDT OffsetOnSurfaceLink.pkt subassembly.□	The MDT OffsetOnSurfaceLink subassembly was updated (version 1.3) to incorporate the distance being measured from the baseline rather than the insertion point and tested by the Assembly / Subassembly Development team.	C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT OffsetOnSurfaceLink.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT OffsetOnSurfaceLink_1-2.pkt (new)	
2024.4	State Kit □ (v2.0.1)	11/26/24	Edit T-TablesQtyStaLabel typical block for clarity□ Priority: LOW, Complexity: SIMPLE□ Aggregate treatment column is not bituminous material and needs to be its own separate column.□	The T-TablesQtyStaLabel typical block was revised so that the Aggregate treatment column is its own column and not grouped up in the bituminous material section of the quantities table.	C:\mdoh\StateKit\Civil 3D\2024\Blocks\RD-Typicals.dwg (updated)	
2024.4	State Kit □ (v2.0.1)	11/26/24	R/W Block & Palette Updates□ Priority: MEDIUM, Complexity: SIMPLE□ Annotation labels are being used to place the railroad r/w tie notes in the r/w drawings. The RW-RRTIE block should be removed from the r/w palette.	The RW-RRTIE was already removed from the RW-Plan.dwg file. Deleted the RW-RRTIE from the r/w palette.	C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\RightOfWay\Palettes\10_MDT RW BLOCKS.atc (updated)	
2024.4	State Kit □ (v2.0.1)	11/26/24	Subassembly Daylight Alternative with Subbase Option□ Priority: HIGH, Complexity: SIMPLE□ MDT DaylightSubbase (a/k/a DaylightWithSubbase) subassembly includes the subbase preventing the ability to choose another end condition while preserving the subbase.□	MDT DaylightWithSubbase subassembly was updated to add a “Subbase Only” build option that allows the designer to address special areas that need specific daylight designs by using an alternative subassembly for the end condition.	C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightSubbase.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightSubbase_1-2.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightWithSubbase.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated)	
2024.4	State Kit □ (v2.0.1)	11/26/24	MDT Rural 2 Lane Assembly Hinge Connection□ Priority: HIGH, Complexity: SIMPLE□ MDT Rural 2 Lane assembly is not interacting with the hinge point on the right in a super elevation scenario.□	MDT Daylight Subbase subassembly moved to attach to the hinge point for proper interaction.	C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated)	
2024.4	State Kit □ (v2.0.1)	11/26/24	MDT DaylightSubbase Subassembly Reverse Slopes□ Priority: HIGH, Complexity: SIMPLE□ The daylight subbase subassembly is causing fill slopes to reverse. Forced catch functionality isn’t fully functional, and multi-intercept options are not functional.□	1. The surface slopes were edited to take in consideration for reverse condition. 2. Removed forced catch in lieu of other methods allowing for the no daylight selection. 3. Multi-intercept functionality restored when unable to resolve will defer defer to normal intercept.	C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightSubbase.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightSubbase_1-2.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightWithSubbase.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated)	

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2024.4	State Kit □ (v2.0.1)	11/26/24	MDT DaylightSubbase PKT vs DaylightWithSubbase Subassembly Name□ Priority: MEDIUM, Complexity: SIMPLE□ A naming conflict exists with the MDT daylight and subbase subassembly where the PKT file name is MDT DaylightSubbase.pkt and the Subassembly Name is DaylightWithSubbase causing confusion when applied where various names are referenced in different locations from the Prospector for the same subassembly.□	A new PKT file has been created with the file name “MDT DaylightWithSubbase.pkt” and Subassembly Name “MDTDaylightWithSubbase” which has been applied to the MDT Subassemblies palette and in delivered assembly drawings accessed from the MDT Assemblies palette. The previous MDT DaylightSubbase.pkt having conflicting naming is released with critical version 1.3 updates to support projects already using the subassembly.	C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightWithSubbase.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated)	
2024.4	State Kit □ (v2.0.1)	11/26/24	MDT Daylight Subbase Standard Slope Conditions□ Priority: MEDIUM, Complexity: SIMPLE□ MDT Daylight Subbase subassembly Fill Slope 2 default value is 5:1 and Cut Slope 1 default value is 6:1. These slope conditions do not follow MDT standard design criteria so users will have excessive updates to make.□	MDT Daylight Subbase subassembly Fill Slope 2 default value was updated to 6:1 and Cut Slope 1 default value was updated to 5:1. Default cut/fill conditions were edited to match the arterial level/rolling baseline criteria.	C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightSubbase.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightSubbase_1-2.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightWithSubbase.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated)	
2024.4	State Kit □ (v2.0.1)	11/26/24	MDT DaylightSubbase Subassembly Forced Catch Offset□ Priority: MEDIUM, Complexity: SIMPLE□ A forced catch feature is needed for the MDT Daylight Subbase Subassembly.□	A forced catch target feature was added to the MDT Daylight Subbase Subassembly. A target (polyline or alignment) can be used in the drawing to force a cut or fill slope in appropriate areas for design.	C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightSubbase.pkt (updated) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightSubbase_1-2.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT DaylightWithSubbase.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Widening.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_Divided.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_4_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Rural_2_Lane.dwg (updated) C:\mdoh\StateKit\Civil 3D\2024\Assemblies\MDT_Ramp.dwg (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	R/W Layout Updates-Title Sheet View Port [R/W Layout Updates-View Port]□ Priority: MEDIUM□ A viewport for design model is needed to reference map from road design on the r/w title sheets.□	Created a viewport on layer GS-VPRT in the RW-Title, RW-Exhibit-Title, and RW-Exhibit-Railroad-Title layout tabs for r/w to reference the project map from road design.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ _RightOfWay-Layouts.dwt (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	Autosave Options□ Priority: LOW□ Use of autosave potentially causes crashes.□	To speed up autosave operations, the ISAVEPERCENT variable is set to 50 creating a larger drawing that is less compressed.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Resource\MDT_2024.arg (updated) Other non-state kit files: 2022StateKit-Gen.docx (updated)	

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2024.4	State Kit □ (v2.0)	08/30/24	Plan Set Development Expediency-Sign Design Calc Sheets□ Priority: MEDIUM, Complexity: MODERATE□ Preparing sign design calculation sheet files with calculations in the model requires repetitive work setting up viewports without any automation.□	A template known as a speed sheet is introduced for creating Sign Design Calculation files.	C:\mdoh\StateKit\Civil 3D\2024\Templates\ _Start-Dwg\SpeedSheet\ #####000SISDC000.dwt (new)	
2024.4	State Kit □ (v2.0)	08/30/24	Excel Tools-Signing Spec/Sum□ Priority: HIGH, Complexity: MODERATE□ Excel is used for specification and summary table data to be inserted into drawing files. A distribution method is needed to accommodate user access and application within specification and summary files created from speed sheet templates.□	The signing specification and summary excel template is added to the state kit to be used in conjunction with the specification and summary speed sheet template.	C:\mdoh\StateKit\Civil 3D\2024\Tools\ExcelManager\ #####000SISUM001.xlsx (new)	
2024.4	State Kit □ (v2.0)	08/30/24	Plan Set Development Expediency-Signing Spec/Sum□ Priority: MEDIUM, Complexity: MODERATE□ Preparing signing specification and summary sheet files with calculation data in the model requires repetitive work setting up viewports without any automation.□	A template known as a speed sheet is introduced for creating Signing Specification and Summary sheet files to be used in conjunction with the Specification and Summary Excel workbook.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-Dwg\SpeedSheet\MDTSI_SpecSum.dwt (new)	
2024.4	State Kit □ (v2.0)	08/30/24	Solution for R/W Break CSV File□ Priority: MEDIUM□ Need to create r/w break csv file with point, northing, easting, description (Sta./Offset).□	Created Civil 3D Project Explorer coodinates file to support the r/w break file with point number, northing, easting, station, offset & description. Created a r/w layout style in the C:\mdoh\StateKit\Civil 3D\2024\Tools\Project Explorer\MDT RWBreakPoints.xmpt. The process is documented in the R/W Break Coordinates section workflow.	C:\mdoh\StateKit\Civil 3D\2024\Tools\Project Explorer\MDT RWBreakPoints.xmpt (new)	
2024.4	State Kit □ (v2.0)	08/30/24	Proposed Layers Printing Grey□ Priority: MEDIUM□ The layers c-road-pvmt and c-swlk are printing grayscale because the layer colors are assigned 253 and 252 in the State Kit.□	The colors for layers c-road-pvmt and c-swlk were changed to color 9 and 8 respectively.	C:\mdoh\StateKit\Civil 3D\2024\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)	
2024.4	State Kit □ (v2.0)	08/30/24	Ribbon Tabs "Fall Off-Screen"□ Priority: HIGH, Complexity: SIMPLE□ Ribbon tabs fall “off-screen” into drop down menu requiring additional effort to access tools. MDT custom ribbon tabs may not appear “on-screen” by default.□	Create a new “Ribbon Tabs” section with how to add/remove ribbon tabs to the UI category of the “MDT Civil 3D State Kit Overview” document. MDT CIVIL 3D USER INTERFACE (UI) > MDT CIVIL 3D USER INTERFACE SETTINGS > CIVIL 3D WORKSPACES > Ribbon Tabs	2024StateKit-Gen.docx (updated) https://www.mdt.mt.gov/other/webdata/external/ESDC/library/2024StateKit-Gen.pdf (updated)	

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2024.4	State Kit □ (v2.0)	08/30/24	Sheet Set Manager Settings□ Priority: HIGH, Complexity: SIMPLE□ New sheet set manager behavior in 2024.If a DST file is opened from a cloud location the “Sheet Set Manager for Web” will open instead of what Autodesk is now calling the “Legacy” Sheet Set Manager. The SSM for Web is also set to open by default for local files.As of 03/24/2024 SSM for Web currently has unresolved bugs and issues that affect functionality.Should the default SSM open behavior in the State Kit be set to something else?□	Recommend turning off all SSM window and DST auto-open features and disabling SSM for Web due because of unresolved bugs and issues. Users can open sheet sets on demand. Inform users SSM for Web may not work correctly. Add small SSMDETECTMODE note in Sheet Set section of 2024StateKit-Gen.docx. Recommended settings: SSMDETECTMODE (set to = 0) Always displays the legacy Sheet Set Manager SSMAUTOOPEN (set to = 0) Does not open the Sheet Set Manager automatically SSLOCATE (set to = 0) Does not open a drawing's sheet set with the drawing Set these variables in startup routine. (MDT2024-StartupSettings.lsp)	C:\MDOH\Bundle-Source_2024\MDT2024-Startup.VLX (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	Change system variable for OLEFRAME□ Priority: MEDIUM, Complexity: SIMPLE□ OLEFRAME variable currently set to <1> but should be set to <2>.□	Set system variable for OLEFRAME to <2> in bundle startup code. Add (setvar "OLEFRAME" 2) to C:MDTSysVars function in MDT2024-StartupSettings.lsp and "Make" MDT2024-Startup.VLX	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Startup.VLX (updated) MDT2024-StartupSettings.lsp (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	Alignment Feature Settings□ Priority: MEDIUM, Complexity: SIMPLE□ An alignment feature setting default value needs to be corrected.□	Set default "% on Tangent for Tangent-Curve" value to 70% in “start” templates. Toolspace > Settings tab > Alignment > Feature Settings > Superelevation Options	C:\MDOH\StateKit\Civil 3D\2024\Templates_Start-Dwg\design-start.dwt (updated) C:\MDOH\StateKit\Civil 3D\2024\Templates_Start-Dwg\survey-start.dwt (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	R/W Sheet SPC Note□ Priority: LOW, Complexity: MODERATE□ Limited space is available for the state plane coordinate note on r/w sheets. The sheet border sheet description area (upper right) will allow a consistent location requiring removal of the text field for r/w sheets.□	Added the state plane coordinate note on r/w sheets in the sheet border sheet description area (upper right).	C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_RightOfWay-Layouts.dwt (updated)	

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2024.4	State Kit □ (v2.0)	08/30/24	Layers for Surface Styles□ Priority: HIGH, Complexity: SIMPLE□ The contours in the styles are set to "0" layer with a color override this hinders any ability to control plot weight. The styles also have overrides on Linetype and Lineweight for some component types.□	Changed color, Linetype, and Lineweight overrides to Bylayer to provide users with control of drawing displays and plots for all surface styles except MDT-Datum, MDT-SubExc, and MDT-Top. Assigned a layer to each Component Type. The following new layers were created: C-SURF-GRID C-SURF-DRCT C-SURF-ELEV C-SURF-SLPE C-SURF-SLPA V-SURF-GRID V-SURF-DRCT V-SURF-ELEV V-SURF-SLPE V-SURF-SLPA	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Surface-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\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)	
2024.4	State Kit □ (v2.0)	08/30/24	Electrical Layer Colors□ Priority: MEDIUM□ The colors for E-CNDT-E and E-DEVC-SYMB-E are currently too dark.□	The colors for E-CNDT-E and E-DEVC-SYMB-E were updated from 91 and 101 to 95 and 115 respectively.	C:\mdoh\StateKit\Civil 3D\2024\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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2024.4	State Kit □ (v2.0)	08/30/24	Change Layer Attributes-R/W□ Priority: MEDIUM□ R/W layer attributes need to be updated to match r/w standards.□	The layer colors, linetypes, and lineweights were revised to match the r/w standards. Adjustments or additions were made to the layers listed below: RR-ACCS RR-ACCS-E RR-ACCS-TABL RR-ESMT-LABL-T RR-ESMT-T RR-LICN RR-LICN-LABL RR-LORW-LABL RR-PRCL-BNDY RR-PRCL-DNRC-LABL RR-PRCL-IDEN RR-PRCL-NFSL RR-PRCL-STLD RR-RAIL-LABL	C:\mdoh\StateKit\Civil 3D\2024\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)	
2024.4	State Kit □ (v2.0)	08/30/24	Storing/Running Automation Tools in State Kit□ Priority: LOW, Complexity: SIMPLE□ Need file locations, content/runtime framework, supporting files, default settings, and documentation to store/run automation tools in State Kit.- Action Recorder files (.actm)- AutoCAD scripts (.scr)- AutoLISP routines (.lsp/.vlx)□	The following locations have been created/will be used for Automation Tools: 1. C:\MDOH\StateKit\Civil 3D\2024\Tools* a) For general State Kit “stand-alone” tools 2. C:\MDOH\StateKit\Civil 3D\2024\Tools\Actions Recordings a) For State Kit Actions Recordings 3. C:\ProgramData\Autodesk\Application Plugins\MDTSK2024.bundle\Content\Tools a)For tools needed by bundle processes 4. C:\MDOH\StateKit\Civil 3D\User\Tools a) For User tools	C:\MDOH\StateKit\Civil 3D\2024\Tools* (updated) C:\MDOH\StateKit\Civil 3D\2024\Tools\Actions Recordings (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\Tools (updated) C:\MDOH\StateKit\Civil 3D\User\Tools (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	Move State Kit content out of Autodesk default locations (Part 3)□ Priority: MEDIUM, Complexity: MODERATE□ Consider consultant's installation/config and avoid stomping on any files in default Autodesk files or folders.Candidates for moving:- Survey database settings- Subassemblies- Corridor Design Standards (Design Criteria File)□	Move State Kit content out of Autodesk default locations and into C:\MDOH locations (where possible). C:\MDOH\StateKit\Civil 3D\2024\Survey C:\MDOH\StateKit\Civil 3D\2024\Subassemblies C:\MDOH\StateKit\Civil 3D\2024\Data\Corridor Design Standards	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Resource\MDT_2024.arg (updated) C:\MDOH\StateKit\Civil 3D\2024\Survey\MDT Figure Prefix Database.fdb_xdef (updated) C:\MDOH\StateKit\Civil 3D\2024\Survey\MDT Linework.f2f_xdef (updated) C:\MDOH\StateKit\Civil 3D\2024\Survey\MDT Survey User Settings.usr_set (updated) C:\MDOH\StateKit\Civil 3D\2024\Subassemblies*.pkt (updated) C:\MDOH\StateKit\Civil 3D\2024\Data\Corridor Design Standards__Montana DOT Design Standards.xml (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit □ (v2.0)	08/30/24	AutoCAD Profile Settings - Action Recorder□ Priority: HIGH, Complexity: SIMPLE□ The 2024 State Kit will leverage Actions Recordings (action macros).The Action Recorder UI does not allow a user to browse to a location on-the-fly to run or save action macros. These filepaths need to be pre-set in the AutoCAD profile.□	Set the “Actions Recording File Location” (save location) to the State Kit User\Tools folder. This will allow users to save their own macros where they will be safe from State Kit updates. Set two paths for “Additional Actions Reading File Locations” (run locations). Set one path to the State Kit User\Tools folder and create a new path to a State Kit Tools\Actions Recordings directory. This will allow users to run their own macros and also run “official” State Kit macros. Small edits needed in MDT_2024.arg file before 2.0.0 release. 1. Create the directory "C:\MDOH\StateKit\Civil 3D\2024\Tools\Actions Recordings" in the State Kit. 2. Set profile filepaths as shown below… Action Recorder Settings >Actions Recording File Location -C:\MDOH\StateKit\Civil 3D\User\Tools >Additional Actions Reading File Locations -C:\MDOH\StateKit\Civil 3D\2024\Tools\Actions Recordings -C:\MDOH\StateKit\Civil 3D\User\Tools	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Resource\MDT_2024.arg (updated) C:\MDOH\StateKit\Civil 3D\2024\Tools\Actions Recordings\ (folder) (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	Assembly "start" Template□ Priority: HIGH, Complexity: SIMPLE□ An assembly "start" Template with state kit styles is needed to build assembly drawings to create assembly DWG files.□	Assembly-start.dwt was created as a start template when developing assembly drawings.	C:\mdoh\StateKit\Civil 3D\2024\Assemblies\assembly-start.dwt (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	MDT SlopeToSurfaceLink Subassembly□ Priority: MEDIUM, Complexity: SIMPLE□ Need basic cut and fill link subassembly to define a daylight point on a surface. A daylight foreslope link between the insertion point and the daylight point is created.□	Created new subassembly MDT SlopeToSurfaceLink and documentation – see MDT Civil 3D Subassembly and Assembly guide.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT SlopeToSurfaceLink.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\AcTpCatalog.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Images\MDT_Slope_to_Surface_Link_dk.png (new) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Images\MDT_Slope_to_Surface_Link.png (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT SlopeToSurfaceLink_1-0.pkt (new) Other non-state kit files: 2022StateKit-Asm_Subasm.pdf (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit □ (v2.0)	08/30/24	_MDT-Subassembly All Codes Label Scaling□ Priority: MEDIUM, Complexity: SIMPLE□ Labels don't scale for _MDT-Subassembly All Codes code set style.□	Text not scaling is intended behavior. The Shape label style "_MDT-Subassembly Shape Code" was updated to reference the TextHeight expression preventing text height from scaling. Marker style "MDT-Subassembly" created and applied to "_MDT-Subassembly All Codes" to prevent the point marker symbol from scaling. Marker and Link label style updates were made and applied to "_MDT-Subassembly All Codes" code set style to avoid overlapping codes: 1) Renamed "_MDT-Subassembly Point Code" to "_MDT-Subassembly Point Code 45" 2) Created "_MDT-Subassembly Point Code LT". "_MDT-Subassembly Point Code RT", and "_MDT-Subassembly Point Code 90" 3) Created "_MDT-Subassembly Link Code CTR".	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	MDT OffsetOnSurfaceLink Subassembly□ Priority: MEDIUM, Complexity: SIMPLE□ Need an subassembly that can acquire an offset point on a surface from an subassembly's attachment point.□	Created new subassembly MDT OffsetOnSurfaceLink and documentation – see MDT Civil 3D Subassembly and Assembly guide	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT OffsetOnSurfaceLink.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT OffsetOnSurfaceLink_1-0.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\AcTpCatalog.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Images\MDT_Offset_on_Surface_Link.png (new) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Images\MDT_Offset_on_Surface_Link_dk.png (new) Other non-state kit files: 2022StateKit-Asm_Subasm.pdf (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	MDT ConnectSurfaceSlopeLinks Subassembly□ Priority: MEDIUM, Complexity: SIMPLE□ Need to create a preliminary or setup surface derived from targeting and sampling an existing surface at offset locations on the right and or left side or that may be used to attach other subassemblies on as a final corridor.□	Created new subassembly MDT ConnectSurfaceSlopeLinks and documentation – see MDT Civil 3D Subassembly and Assembly guide.	C:\mdoh\StateKit\Civil 3D\2024\Subassemblies\MDT ConnectSurfaceSlopeLinks.pkt (new) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\AcTpCatalog.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Images\MDT_Connect_Surface_Slope_Links.png (new) C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Images\MDT_Connect_Surface_Slope_Links_dk.png (new) Other non-state kit files: 2022StateKit-Asm_Subasm.pdf (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	Pipe Slopes and Lengths□ Priority: MEDIUM, Complexity: SIMPLE□ Pipe slope and length management tool allows more possibility for pipe profile adjustments.□	New tool "Move Pipe Along Profile" added to adjust the pipe length and location in the profile view courtesy of Alaska DOT. Tool button Move Pipe Along Profile added to Pipe Network pulldown within the MDT Modeling panel of the MDT Design ribbon tab supporting command MDTPipeAlongProfile command.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Startup.VLX (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\MDT2024-Tools.VLX (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Content\DOT24.dll (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\MDT-Ribbon.cuix (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\mdt-ribbon.mnr (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\mdt-ribbon_light.mnr (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit □ (v2.0)	08/30/24	Start Templates Units and Zone Default Coordinate System□ Priority: HIGH□ MDT Start Templates within Civil 3D are defaulted to NSRS11MTIF. This system realization corresponds to NAD-83(2011). This does not align with all project surveys.□	Civil 3D Coordinate System MDT Start Templates within Civil 3D have been defaulted to not have a coordinate system. 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. The designer will set the coordinates from the information in the survey read-me file for the project UPN 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. 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. Added a "Set Coordinate System" button to the Start tab on the MDT Tool Palette. Added "Drawing Settings" panel to the MDT Design tab on the MDT ribbon.	C:\mdoh\StateKit\Civil 3D\2024\Annotation\ * .dwg C:\mdoh\StateKit\Civil 3D\2024\Blocks\ * .dwg C:\mdoh\StateKit\Civil 3D\2024\Layers\layers.dwg C:\mdoh\StateKit\Civil 3D\2024\Linetypes\DGNlinetypes.dwt C:\mdoh\StateKit\Civil 3D\2024\Linetypes\linetypes.dwg C:\mdoh\StateKit\Civil 3D\2024\Templates\ _Start-Dwg\ * -start.dwt C:\mdoh\StateKit\Civil 3D\2024\Templates\ _Start-Dwg\x-mdt-build.dwt C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\ * -Ref.dwt C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\ * -group.dwt C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\ * -Layouts.dwt C:\mdoh\StateKit\Civil 3D\2024\Assemblies\assembly-start.dwt C:\mdoh\StateKit\Civil 3D\2024\Toolpalette\Start\Palettes\10_MDT Start.atc C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Menu\MDT-Ribbon.cuix	
2024.4	State Kit □ (v2.0)	08/30/24	Update MDT_SSM.dst settings for clarity□ Priority: MEDIUM, Complexity: SIMPLE□ MDT_SSM.dst example sheet set contains two properties with the same placeholder of PROJECT DESC, even though they have different meanings.□	Replaced the placeholder value for Project name in the Project Control section from "PROJECT DESC" to "PROJECT LOCATION NAME" and 02_PROJECT_DESC in the Sheet Set Custom Properties from "PROJECT DESC" to "PROJECT TYPE" to match the wording in the Electronic As-Built system.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets\Sheet Sets\MDT_SSM.dst (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	Custom Hatch (.pat) File Location□ Priority: MEDIUM, Complexity: SIMPLE□ Need a home for custom hatch patterns added to the State Kit.□	1. Create C:\MDOH\StateKit\Civil 3D\2024\Hatch 2. Add folder path to MDT_2024 profile (Support File Search Path) 3. Move path up in the list just below the C:\mdoh\statekit\civil 3d\2024\linetypes entry.	C:\MDOH\StateKit\Civil 3D\2024\Hatch (updated) C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2024.bundle\Resource\MDT_2024.arg (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit □ (v2.0)	08/30/24	Subassembly storage in User folder□ Priority: MEDIUM, Complexity: SIMPLE□ Need a home for User subassemblies.□	1. Create C:\MDOH\StateKit\Civil 3D\User\Subassemblies directory. 2. Create empty “Subassembly” tool palette and add to User palette group. 3. Update help doc.	C:\MDOH\StateKit\Civil 3D\User\Subassemblies (updated) C:\MDOH\StateKit\Civil 3D\User\Toolpalette\AcTpCatalog.atc (updated) C:\MDOH\StateKit\Civil 3D\User\Toolpalette\Palettes\UserSubassemblies.atc (updated) C:\MDOH\StateKit\Civil 3D\2024\Help\StateKit-UserPalettes.pdf (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	Update C-ProjectHeading title sheet block□ Priority: LOW, Complexity: SIMPLE□ C-ProjectHeading block on title sheet needs to be updated.□	Added “COUNTY” to the fourth line of the block following the #### SSM field. Combined all fields into one MTEXT item and set justification to top center so that the project type description, if two lines, will cascade down with the remaining fields following.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Electrical-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_RightOfWay-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Road-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Signing-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Sheets_Utilities-Layouts.dwt (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	Create new code set style for showing special borrow on cross sections□ Priority: MEDIUM, Complexity: SIMPLE□ Code set style needed to show special borrow on cross sections.□	Created new code set style called MDT-Section-Plan Special. The style was created as a copy of the MDT-Section-Plan code set style and includes the MDT-Special Borrow shape style set for the SubBase shape. This shape style will show the SubBase as hatched.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	Edit shape styles for use in profiles□ Priority: MEDIUM, Complexity: SIMPLE□ Existing shape styles need to have profile view direction turned on for enhancements to design process.□	Set the Shape Border Line and Shape Area Fill components to visible in the MDT-Cut Material, MDT-Fill Material, and MDT-Special Borrow shape styles. Set color for Shape Area Fill to 82 and hatch pattern to ANSI31 in the Profile View Direction for the MDT-Special Borrow shape style.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-General-Ref.dwt (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	Label Styles: Bearings Precision□ Priority: LOW, Complexity: SIMPLE□ The bearings shown on the plans are not rounding to the nearest second.□	Updated precision to the nearest second for all bearing label styles. Adjusted font height in all line label styles to be the default 0.0600” to match the other labels in the State Kit. Deleted MDT Bearing Only style.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (update) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-AlnProfSuper-Ref.dwt (updated)	
2024.4	State Kit □ (v2.0)	08/30/24	Regular Font in MDT Arial Italic□ Priority: HIGH, Complexity: SIMPLE□ MDT Arial Italic text style is presenting with non-italicized font in some instances.□	Text styles on all templates were updated to have italicized font on all MDT-Arial-Italic styles.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-AlnProfSuper-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Sheet-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\design-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference\survey-group.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Surface-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-General-Ref.dwt (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2024.4	State Kit □ (v2.0)	08/30/24	Erosion Control Surface Styles□ Priority: MEDIUM, Complexity: SIMPLE□ Erosion control surface styles need to display grey scale.□	This was addressed with the “Layers for Surface Styles” request. A layer was created for each surface style Component Type. Changed the color, Linetype, and Lineweight to Bylayer in the existing contour surface styles to provide users with control of drawing displays and plots. The default layer color assigned to the existing contour and proposed layers will print as grey scale.	C:\mdoh\StateKit\Civil 3D\2024\Templates\Reference_MDT-Surface-Ref.dwt (updated) C:\mdoh\StateKit\Civil 3D\2024\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)	
2022.2.6	State Kit □ (v1.25)	06/10/24	Edit MDT Alignments.xmpa Font Heights□ Priority: LOW, Complexity: SIMPLE□ Revise font heights in MDT Alignments.xmpa style to match heights established in State Kit.□	Edit MDT Alignments.xmpa Project Explorer style so that the font heights are the following in paper space: • Title Row: 0.120 • Header Row: 0.100 • Data Row: 0.060 Additionally, edit the cell margins to the following: • Horizontal Cell Margins: 0.025 • Vertical Cell Margins: 0.000	C:\mdoh\StateKit\Civil 3D\2022\Tools\Project Explorer\MDT Alignments.xmpa (updated)	
2022.2.6	State Kit □ (v1.25)	06/10/24	Convert Corridor Feature Lines□ Priority: HIGH, Complexity: MODERATE□ Command/procedure needed to convert corridor created feature lines into 3D polylines and place them on specific layers. The names of the layers should be the names of the point codes from the subassembly that the feature lines were created from.□	1. Create drawing template for feature line export. 2. Add MDTCFLLAYER lisp routine to MDT2022Tools.VLX 3. Add tool button to MDT Tools tool palette.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Tools.VLX (updated) C:\mdoh\StateKit\Civil 3D\2022\Toolpalette\Tools\Palettes\10-MDT Tools.atc (updated) C:\mdoh\StateKit\Civil 3D\2022\Templates\Misc\cfl-misc.dwt (new)	
2022.2.6	State Kit □ (v1.25)	06/10/24	Create block for begin and end project labels for PLP sheets□ Priority: MEDIUM, Complexity: SIMPLE□ A block is needed for the beginning and end of a project for plan and profile sheets.□	Created blocks for begin and end project. Include field link to SSM for project number to save designer time and errors from hand entering in data. Created blocks for begin and end connection to PTW. Created new RD-Plan.dwg block library.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Plan.dwg (New)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.6	State Kit □ (v1.25)	06/10/24	Profile View Band Styles□ Priority: MEDIUM, Complexity: SIMPLE□ Profile view band styles (Profile Data subset) need to be updated so that the full major station is shown (i.e., reads as 250+00 rather than the current 250)□	Updated the PLN Profile Sta Index and PLN Profile Sta No Decimal profile view band styles so that the “+00” shows on the style. Created a band set that users can import so they don’t have to import each one individually. Minimum display output set to 3 digits. Changed major tick display level from 0 to C-GRID-MAJR for both styles. Renamed styles to MDT PROF-Plan Profile Sta Index and MDT PROF-Plan Profile Sta No Decimal. Create new Band Set called MDT PROF-Plan. Deleted PLN P-P Pro View styles to prevent further use by users. Deleted Empty Band - Bottom, Empty Band - Top, MDT Empty Band - Top, MDT Stations, Stations Create New Profile Data Band Styles: MDT PROF - Empty Band - Top, MDT PROF-Plan Profile Sta Index, MDT PROF-Plan Profile Sta No Decimal, MDT PROF-Stations	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\ _MDT-AlnProfSuper-Ref.dwt (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.6	State Kit □ (v1.25)	06/10/24	Profile view styles for split profiles□ Priority: MEDIUM, Complexity: SIMPLE□ Profile view styles need to be developed and added to the state kit for a split profile.□	1) Create MDT PROF-Plan Profile View style for plan and profile sheet production with the components outlined in the last 3 major bullets. 2) Create a left, middle, right, and no-display style. - Left style (MDT PROF-Plan (Split LT)) will have elevations offset to the left of both axes, as well as the title of the parent alignment. - Middle style (MDT PROF-Plan (Split Middle)) will have elevations offset to the right of the left axis and offset to the left of the right axis. - Right style (MDT PROF-Plan (Split RT)) will have elevations offset to the right of the left axis and to the right of the right axis. - Fonts and all visual elements need to be turned off for the no-display style (_MDT-No Display). 3) Change all fonts on all styles so that they are Arial Italic. 4) Change major grid interval spacing from 500' to 100'. 5) Change colors on the display components for all styles to the following: - Grid Horizontal Major - BYLAYER - Grid Horizontal Minor - 214,214,214 - Grid Vertical Major - BYLAYER - Grid Vertical Minor - 214,214,214 6) Delete PLN P-P Pro View styles to prevent further use by users 7) No anticipated conflicts for consultants.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-AlnProfSuper-Ref.dwt (updated)	
2022.2.6	State Kit □ (v1.25)	06/10/24	Update MDT Daylight.pkt and the associated documentation□ Priority: HIGH, Complexity: SIMPLE□ Daylight end condition needed in cut situations to daylight the slope to existing ground.□	A daylight function was added to the cut end condition in the MDT Daylight subassembly.	C:\mdoh\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc (updated) C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT MDT Daylight\ \ *. * (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) Other non-state kit files: 2022StateKit-Asm_Subasm.docx (updated) MDT Daylight.pkt (updated)	
2022.2.6	State Kit □ (v1.25)	06/10/24	Update default swath widths for sample line groups□ Priority: MEDIUM, Complexity: SIMPLE□ Default swath widths need to be updated to 140.000' to support cross sections process and so that the section views will be centered within the layouts.□	Edit command settings for CreateSampleLines. Change Left and Right Swath Widths from 125.000' to 140.000'.	C:\mdoh\StateKit\Civil 3D\2024\Templates_Start-dwg\design-start.dwt (updated)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.6	State Kit □ (v1.25)	06/10/24	Match line edits□ Priority: LOW, Complexity: SIMPLE□ Match line and match line label styles need updates to display within plan view.□	Created MDT-Plan ML match line style. Changed color to 253 to match profile view style grid color. Created MDT-Left Side and MDT-Right Side label styles with MDT Arial Italic text style and adjust x offset so that the labels fall within the view frame/viewport for plan sheets. Text height set to 0.06. Color for font set to white. Deleted PLN Left Side and PLN Right Side label styles and deleted PLN Plan ML match line style.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-ViewFrame-Ref.dwt (updated)	
2022.2.6	State Kit □ (v1.24 Amended)	04/15/24	Interim Director Larry Flynn□ 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	Alignment Geometry Abbreviations□ 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	Autodesk Part Catalog File 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)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.5	State Kit □ (v1.24)	02/03/24	Culvert PTW□ 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)	
2022.2.5	State Kit □ (v1.24)	02/03/24	Small Linetype Text□ Priority: HIGH, Complexity: SIMPLE□ Linetype text is appearing too small after state kit update 1.23.□	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.	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)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.5	State Kit □ (v1.24)	02/03/24	Start Templates Units and Zone Default Coordinate System□ 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.□	Civil 3D Coordinate System 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. 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.	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)	
2022.2.5	State Kit □ (v1.24)	02/03/24	Update MDT-Typical code set style□ Priority: HIGH, Complexity: SIMPLE□	- Edit MDT-Typical style as described in steps below. Then create a copy and name it	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)	
2022.2.5	State Kit □ (v1.24)	02/03/24	Add dynamic blocks to electrical standard details□ 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	Electrical VMS Blocks□ 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)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.5	State Kit □ (v1.24)	02/03/24	Missing Multileader MDT STD-Arial .06 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	Update Profile Tool Priority: HIGH, Complexity: SIMPLE The MDT profile needs to be reset on demand to correct errors caused by profile corruption.	Add MDTRESETPROFILE 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	Waterway Flowline Direction 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_Utilities-Layouts.dwt (updated)	
2022.2.5	State Kit □ (v1.23)	12/14/23	Add existing Layer to the Survey/Photo filter□ 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	Add updated StateKit Subassembly (MDT Curb and Gutter)□ 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)	
2022.2.5	State Kit □ (v1.23)	12/14/23	Autodesk Civil 3D Layouts/Sheets for Hydraulics□ 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)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.5	State Kit □ (v1.23)	12/14/23	EL Standard Drawings Update□ 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	Excel - HY Summary□ 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	Link for MDT Civil 3D Subassembly and Assembly Guide□ 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	MDT C3D Styles Coordination-Dimension Styles□ 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)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.5	State Kit □ (v1.23)	12/14/23	MDT State Kit EULAs & WisDOT licensing□ 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	Missing Annotation Styles□ 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	Move State Kit content out of Autodesk default locations (Part 2)□ 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	Multileader Leader Line Heavy w/Blocks□ 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	Pipe Network and Structures□ 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)	

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.5	State Kit □ (v1.23)	12/14/23	R/W Block Attributes & Parameters□ 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 ATTIPE 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	RECOVERYMODE System Variable□ Priority: LOW, Complexity: SIMPLE□ _Recover.dwg files are appearing with project files.□	Set RECOVERYMODEto “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	RR-RWAY layer color□ 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 majenta (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	Sheet Layout Text Styles□ 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	Utility to Clear Temp□ 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)	

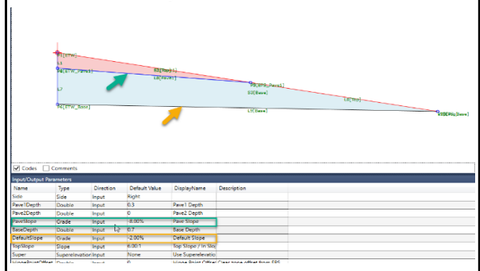
MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.5	State Kit Updater □ (v2024.0.0.3)	12/14/23	MDT State Kit Updater□ 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.□	Added MIT (WisDOT) licensing info. The “MDT StateKit Updater User’s Guide” & “MDT StateKit Updater Operational Guide” were updated. Font and formatting errors were corrected. Updated INI file to include a 2024 State Kit install (future release) as an option. Edit UI to show space between the words State & Kit. (“State Kit”, not “StateKit”) Updated to correct empty remnant folders.	MDT StateKit Updater.msi (updated) 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)	
2022.2.2	State Kit (v1.22.1)	09/06/23	Survey Figure Style Priority: HIGH / Complexity: SIMPLE MDT Standard survey figure style is created without needed display settings when importing csv in survey database.	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.	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)	
2022.2.2	State Kit (v1.22)	08/29/23	"DGN" Linetype Fixes (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-DgnLineType-Ref.dwt from the reference templates caused some “DGN” linetypes to become corrupted in the group and start templates.	1. Simplified workflow below. 2. Extract DGN Linetypes from _MDT-DgnLineType-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	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-DgnLineType-Ref.dwt (deleted)	

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	Add/Edit default filepaths in <<MDT>> Profile (ALIASEDIT command default filepath) 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. 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.	1. Add %APPDATA%\autodesk\c3d 2022\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	Alignment Label Styles - Curve Priority: MEDIUM / Complexity: SIMPLE Alignment curve label styles text alignment updates needed.	For styles "MDT ALGN-Design Simple Curve", "MDT ALGN-Existing Simple Curve", and "MDT ALGN-Site Simple Curve": 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)	

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	<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.	The following updates were made to all assembly drawings: 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	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)	
2022.2.2	State Kit (v1.22)	08/29/23	<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.	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. 	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) 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)	

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	Bentley Layer Translator-Electrical 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	Bentley Layer Translator-Hydraulics 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	Bentley Layer Translator-R/W & Environmental 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	Block and Layout Edits for Control and Lin&LevData Layouts 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)	

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	Block Layers and Fonts: RD-XS 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	Code Sets-Cross Section Display 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	Code Sets-Design Display 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	Code Sets-Plan Display 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	Cross Section Blocks/Feature Line Styles 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	Cross section subgrade labels at critical points 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)	

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	Drawing Settings Abbreviations 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	Grading Criteria Sets 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	GuideSIGN and Geotechnical Modeler Tools 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	MDT C3D Styles Coordination-Profile Styles 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	MDT C3D Styles Coordination-Section and Section View Styles/Command Settings Priority: HIGH / Complexity: MODERATE Need Section and Section View Styles for cross sections to support MDT processes.	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. 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.	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	Microsoft .NET Core 3.1 Security Issue 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. Microsoft .NET Core 3.1 Security Issue cont.	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	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Content\MDT2022Settings.VLX (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	Move State Kit content out of Autodesk default locations (Part 1) 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	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.	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)	
2022.2.2	State Kit (v1.22)	08/29/23	Multiple County Default Sheet Set Template and Properties and Names in the Border (Checked/Reviewed/Designed By Block Size) 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.	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".	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) Other non-state kit files: Support-TtlBlkNameDateUpdt.pdf (new)	

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	Preset System & Drawing Variables (System Variables) 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	R/W Exhibit Legend Tract Conveyed Shade 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	R/W Sheet Layout Viewport Clip Lines 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	RD Title Surfacing Source Note 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)	

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	Reduce user confusion when selecting Civil 3D styles Priority: HIGH / Complexity: SIMPLE Need to reduce user confusion when selecting Civil 3D styles: 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	The following updates were made to all “styles” reference templates: 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).	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)	
2022.2.2	State Kit (v1.22)	08/29/23	Subassembly Code Labeling Priority: HIGH / Complexity: SIMPLE A method to identify subassembly codes is needed.	_MDT-Subassembly All Codes code set style and corresponding label styles developed to display subassemblies with point, link, and shape code name labels.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\ _MDT-General-Ref.dwt (new)	
2022.2.2	State Kit (v1.22)	08/29/23	Sheet Set Manager Default Settings Priority: LOW / Complexity: SIMPLE 1) “Page setup override file” setting is wrong 2) “Sheet creation template” setting is wrong	1) Open the MDT_SSM.dst example file and change path for Page setup overrides file toC:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\PageSetups-ref.dwt 2) Change the Sheet creation template toC:\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.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\Sheet Sets\MDT_SSM.dst (updated)	
2022.2.2	State Kit (v1.22)	08/29/23	Survey Layer Based Feature Line Style Priority: HIGH / Complexity: SIMPLE Layer Based feature line style isn’t available when using survey-start.dwt.	Layer Based feature line style was renamed to follow MDT style naming convention and added to survey-start.dwt as MDT-Layer Based.	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)	
2022.2.2	State Kit (v1.22)	08/29/23	Urban Sheet Layout Updates Priority: MEDIUM / Complexity: SIMPLE RD-Notes-Urban and RD-Lin&LevData-Urban sheet layouts require urban-specific default alterations.	Updates to urban RD-Notes-Urban and RD-Lin&LevData-Urban layouts made to include urban specific information.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets\ _Road-Layouts.dwt (updated) C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Notes.dwg (updated)	

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	User Folders (User Tools Folders) (User Tool Palette) 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.	User path to be: C:\MDOH\StateKit\User Default subfolders: \User\Assemblies \User\Blocks \User\Toolpalette \User\Tools 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	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)	
2022.2.2	State Kit (v1.21)	05/12/23	Typical Section Dimension Annotation Scale Priority: HIGH / Complexity: SIMPLE T-Dimensions block text is scaling with drawing scale adjustments.	T-Dimensions block text set to no annotation.	C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Typicals.dwg C:\mdoh\StateKit\Civil 3D\2022\Blocks\.blocksMetadata*.*	Updated Updated Folder
2022.2.2	State Kit (v1.21)	05/12/23	R/W FHWA Approval and Revision Dates Priority: HIGH / Complexity: SIMPLE Sheet border approval and revision date attribute value text aligns beneath border text.	Block attributes synced in right-of-way layouts template. Viewport adjustments intended with future update.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt	Updated
2022.2.2	State Kit (v1.21)	04/21/23	"Summary" Title Text Priority: HIGH / Complexity: SIMPLE Summary title is required on the summary sheet.	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.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt	Updated

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.2	State Kit (v1.21)	04/21/23	<<MDT>> AutoCAD profile updates (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.	Annotation and tool palette paths were updated in the <<MDT>> profile.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT_2022.arg	Updated
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

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
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	New File
					C:\mdoh\StateKit\Civil 3D\2022\Tools\Project Explorer\MDT Alignments.xmpa	New File
2022.2.2	State Kit (v1.21)	04/21/23	Apparent R/W Plan Notes Priority: HIGH / Complexity: SIMPLE A new process for apparent r/w requires notes on r/w and road plan sheets.	Block RW-EXRWNote created for placement on r/w plan sheets and N-ApparentRW block created for placement on road plan notes sheet. Block RW-EXRWNote added to RW-Title, RW-Plan, RW-Ownership, and RW-Exhibit layouts.	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_RightOfWay-Layouts.dwt	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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	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	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Blocks\HY-Details.dwg	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Blocks\RD-Notes.dwg	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Blocks\RD-Typicals.dwg	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Blocks\RD-XS.dwg	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Blocks\RW-Plan.dwg	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

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
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	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
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 (v1.21)	04/21/23	Control Point Layers/Label Style Priority: HIGH / Complexity: SIMPLE Control points need to be used to develop the control traverse without text displayed.	Label style for Control points created. The new label style MDT Point-Survey (Control) has been added.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Point-Ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	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_Start-Dwg\survey-start.dwt	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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	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_Start-Dwg\survey-start.dwt	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	Updated
					C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Content	Updated
					C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Groups	Updated
					C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Subassemblies	Updated
					2022StateKit-Gen.docx	Updated
					C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Design	Deleted
					C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Land	Deleted
					C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Settings	Deleted
					C:\MDOH\StateKit\Downloads\MDTStateKit_2022\Source\MDOH\Toolpalette\Survey	Deleted

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
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	Deleted
					C:\mdoh\StateKit\Civil 3D\2022\Textstyles	Deleted
					C:\mdoh\StateKit\Civil 3D\2022\Annotation	New Folder
					C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX	Updated
2022.2.2	State Kit (v1.21)	04/21/23	Do Not Start for Templates Priority: MEDIUM / Complexity: SIMPLE Reference template files may be misused as start templates for project files.	Added disclaimer note “DO NOT START DWG WITH THIS TEMPLATE, FOR REFERENCE USE ONLY” to all reference templates.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Point-Ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt	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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-LayerFilters.lft	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
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

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.2	State Kit (v1.21)	04/21/23	Layers for R/W Parcel Shading 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	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\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\Reference_MDT-Full-Ref.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
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	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\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\Reference_MDT-Full-Ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-ObjectLayers.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-AlnProfSuper-Ref.dwt	New File
					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 (v1.21)	04/21/23	MDT C3D Styles Coordination-Section and Section View Styles/Command Settings-Typicals Priority: HIGH Section View Style to support MDT typical section process is needed as well as typical block updates.	Section view style “MDT Typ Section” created 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_MDT-Full-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\Blocks\RD-Typicals.dwg	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	New File
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	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_Start-Dwg\survey-start.dwt	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\Templates\Reference_MDT-Full-Ref.dwt	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	Updated
					2022StateKit-Gen.docx	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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_4_Lane.dwg	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_2_Lane.dwg	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Assemblies\MDT_Ramp.dwg	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\20_MDT Subassemblies.atc	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Assemblies\Subassemblies\MDT Parameter Reference.pkt	Updated
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\MDT_Subassembly_ParameterReference.png	Updated
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\a5523b2fafe24b5f988a831e79c7d51f.xaml	Updated
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\a5523b2fafe24b5f988a831e79c7d51f.pvd	Updated
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\a5523b2fafe24b5f988a831e79c7d51f.emd	Updated
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\a5523b2fafe24b5f988a831e79c7d51f.dll	Updated
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\a5523b2fafe24b5f988a831e79c7d51f.cfg	Updated
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference\a5523b2fafe24b5f988a831e79c7d51f.atc	Updated
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference[Content_Types].xml	Updated
					2022StateKit-Ass_SubAss.docx	Updated
2022.2.2	State Kit (v1.21)	04/21/23	MDT Ribbon GUI Code (Ribbon Code) Priority: HIGH / Complexity: MODERATE Several efficiency and maintenance tools need to be delivered to users as they become available.	Create framework folders/files/code for MDT ribbon Ribbon tabs should not be visible in the MDT Profile yet	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Menu\MDT-TOOLS-2022.cuix	New File
					C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Menu\xaml__placeholder__	New File
					C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Menu\images\MDT_logo16.png	New File
					C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Menu\images\MDT_logo32.png	New File
					C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Menu\images\MDT_logo64.png	New File

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
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*.*	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Assemblies\Subassemblies\MDT Sidewalk.pkt	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\10_MDT Subassemblies.atc	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Images\MDT_Subassembly_Sidewalk.PNG	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg	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	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Tools\Palettes\10-MDT Tools.atc	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Images\lisp.png	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Images\lisp_dk.png	Updated
					2022StateKit-Gen.docx	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	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\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\Reference_MDT-Full-Ref.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
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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-layers.lft	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
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

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.2	State Kit (v1.21)	04/21/23	Pipe Object Layers Priority: LOW / Complexity: SIMPLE Pipe and Pipe-Labeling Object Layers are not set up properly.	Pipe object layers are updated to use CLVT 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\Reference_MDT-ObjectLayers-Ref.dwt	Updated
					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	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\Annotation\Dimensions.dwg	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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt	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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt	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:\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\Reference_MDT-Full-Ref.dwt	Updated

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.2	State Kit (v1.21)	04/21/23	RD-Title Layout Visibility State 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.	Block C-ProjectHeading was replaced in the RD-Title layout sheet.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt	Updated
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 1of 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	Renamed
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-AlnProfSuper-Ref.dwt	Renamed
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt	Renamed
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Point-Ref.dwt	Renamed
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-DgnLineType-Ref.dwt	Renamed
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Surface-Ref.dwt	Renamed
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-ObjectLayers-Ref.dwt	Renamed
					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\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
					2022StateKit-Gen.docx	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

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
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	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\design-group.dwt	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.dwt	Updated
2022.2.2	State Kit (v1.21)	04/21/23	Storm Inlet and Surface ByLayer Colors Priority: MEDIUM / Complexity: SIMPLE C-SURF-BNDY should be yellow and layer V-STRM-INLT-SYMB-E should be blue.	ByLayer color updated to yellow (color 52) for 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.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\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\Reference_MDT-Point-Ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.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
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	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Assemblies*.dwg	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	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Assemblies*.dwg	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Assemblies\Subassemblies\MDT Shoulder.pkt	Updated
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Shoulder*.*	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	Description keys have been added to design-start.dwt template.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
			requires access to description keys and aren't included in the design-start.dwt template.			
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	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\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 (v1.21)	04/21/23	survey-start.dwt/land-start.dwt Priority: LOW / Complexity: SIMPLE Survey-start.dwt and Land-start.dwt are one in the same.	Land-start.dwt and land-group.dwt are deleted. All engineering and cadastral survey work is supported in survey-start.dwt.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Deleted
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt	Deleted
					2022StateKit-Gen.docx (MDT Civil 3D State Kit Overview)	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

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
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-AlnProf-ref.dwt	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
2022.2.2	State Kit (v1.21)	04/21/23	Utility Plan Title Sheet Legend Priority: HIGH / Complexity: SIMPLE Utility plan title sheet legend requires utility features to be included.	Block RW-Legend-Plan updated, UT-Legend-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\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_Utilities-Layouts.dwt	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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Sheet-Ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference_MDT-Full-Ref.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
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 Bentely	C:\mdoh\StateKit\Civil 3D\2022\Tools\Layer Translators\MDT Survey.dws	New File

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
				workspace regarding survey and developed a layer translator that maps this data appropriately to the Civil3D format.		
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	Updated
					MDTStateKitTools2022-2023.zip\MDTStateKitTools2022-2023.exe	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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Assembly/Subassembly Information Event Errors Priority: HIGH Event error "Macro file not found at original path specified in subassembly..." occurs when using assemblies from the MDT Assemblies tool palette.	Construction Assembly Properties were opened and saved for all assembly files.	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
2022.2.1	State Kit (v1.20)	12/01/22	Block Loading 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

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.1	State Kit (v1.20)	12/01/22	Bureau Chief Stamps 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	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
2022.2.1	State Kit (v1.20)	12/01/22	ByLayer Attribute Assignments 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	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\Templates_Start-Dwg\design-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\sheet-ref.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Correction to Electrical Type 10-A Luminaire Standards Detail Drawing 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Blocks\.blocksMetadata	New File
2022.2.1	State Kit (v1.20)	12/01/22	Design Criteria File Priority: HIGH Design criteria file needs to be updated.	Consult links in card for criteria data.	C:\ProgramData\Autodesk\C3D 2022\enu\Data\Corridor Design Standards\Imperial\...	
					__Montana DOT Design Standards.xml	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Ditch Layers Priority: MEDIUM A survey ditch layer is needed for non-roadside	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	Updated

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
			ditches, e.g. irrigation.		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\Templates_Start-Dwg\design-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Electrical Detail Updates (2A, 3A Signal Standards and others) 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	Electrical FLOWFILL Block Update 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	Engineer Seal Block Priority: MEDIUM Errant line displaying in engineer seal.	Errant line was deleted.	C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\sheet-ref.dwt	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
2022.2.1	State Kit (v1.20)	12/01/22	Existing vs. New Layer Names Priority: HIGH Layer names for new, a.k.a. proposed, features are appended with N and layer names for	All MDT layers were updated to eliminate the -N suffix and existing layers to have a -E suffix to agree with common industry application.	C:\mdoh\StateKit\Civil 3D\2022\Layers\layers.dwg	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx	Updated

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
			existing features have no designation.		C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwg	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\sheet-ref.dwt	Updated
					C:\ProgramData\Autodesk\C3D 2022\enu\Survey\MDT Figure Prefix Database.fdb_xdef	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Grading Palette Tabs 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	Layer Filters 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-layers.lft	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Layer Naming Convention Documentation 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	Layers for Vehicle Tracking 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\Layers.xlsx	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las	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\Templates_Start-Dwg\design-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Line Type Descriptions: MDT_TV_OH_E Priority: LOW MDT_TV_OH_E line type description has erroneous underground reference.	MDT_TV_OH_E line type description was updated from from "TV - Underground - Existing" to "TV - Overhead - Existing".	C:\mdoh\StateKit\Civil 3D\2022\Linetypes\linetypes.dwg	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Linetypes\MDT_Linetypes.lin	Updated
2022.2.1	State Kit (v1.20)	12/01/22	MDT Assembly and Subassembly User Guide 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	OLEFRAME Variable 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Plan Layouts for R/W 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	Plot/No Plot Layers 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	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\Templates_Start-Dwg\design-start.dwt	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\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Profile Object Layer 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Project Design Data Priority: LOW Tag DY1 and V1 Prompt entry errors - "Designt Year" and "Vehicles" to "Velocity".	Edited attributes in *C-ProjectDesignData* block. Reloaded sheet-ref.dwt into _Road-Layouts.dwt.	C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\sheet-ref.dwt	Updated
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Remove Import MDT Description Key Set Palette Button 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	Road Design Title Sheet Layout Visibility State 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	Skew Diagram CL Symbol 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

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.1	State Kit (v1.20)	12/01/22	Survey DTM Layer Filter 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-layers.lft	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Survey Feature Codes 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	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:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-layers.lft	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Survey MDT Point Label Style 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	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:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-layers.lft	Updated

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
2022.2.1	State Kit (v1.20)	12/01/22	Survey Non-DTM Point Group Exclusion 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Survey Point Groups 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Survey Point Layers 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	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:\mdoh\StateKit\Civil 3D\2022\Layers\MDT-layers.lft	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Survey Point Styles 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	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\Templates\Reference\full-ref.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Survey Start Template Scale 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
2022.2.1	State Kit (v1.20)	12/01/22	Typical Section Dimension Style/Block Height 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	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Blocks\RD-Typicals.dwg	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Blocks\.blocksMetadata	New File
2022.2.1	State Kit (v1.20)	12/01/22	Typical Section Side Slopes 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 (v1.20)	12/01/22	Typical Sections Skeleton Code Set Style Markers Display Priority: HIGH Typical Sections Skeleton Code Set style displays markers.	Typical section code set style name was edited to MDT Typ Sec and display style was set to _No Markers for all points.	C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	Updated
					C:\mdoh\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	Updated

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
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	Updated
					Installed files location: C:\Program Files\MDT\MDT StateKit Updater*.*	New Files
2022.2.1	State Kit (v1.19.01)	10/07/22	MDT Drainage Catalog Inlet-Outlets Parts Links 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**	Deleted
					C:\ProgramData\Autodesk\C3D 2022\enu\Pipes Catalog\MDT Drainage Catalog\Inlet-Outlets\...	
					MDT Large Diameter Concrete Flared End Section.xml	Updated
					MDT RCP Headwall.xml	Updated
					MDT Type A Concrete Flared End Section.xml	Updated
					MDT Type B Concrete Flared End Section.xml	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	Updated File
					C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	Updated File
					C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	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 fot reliable performance.	C:\MDOH\StateKit\Civil 3D\2022\Tools\Survey*.*	Moved From
					C:\Program Files\Autodesk\AutoCAD 2022\C3D*.*	Moved To
					C:\Program Files\Autodesk\AutoCAD 2022\C3D\AeccSurveyImportTools.dll	New
					C:\Program Files\Autodesk\AutoCAD 2022\C3D\MDT Survey Import.dll	Deleted
					C:\Program Files\Autodesk\AutoCAD 2022\C3D\MDT Survey Import.dll.config	Deleted
					C:\Program Files\Autodesk\AutoCAD 2022\C3D\MDT Survey Import.pdb	Deleted
					C:\ProgramData\Autodesk\C3D 2022\enu\Data\ToolBox\ToolboxCfg_SurveyTools.xml	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	New File
					Installed files location: C:\Program Files\MDT\MDT StateKit Updater*.*	New Files
2022.1.3	Updater (v2022.0.1.5)	05/20/22	Need a mechanism to update and distribute MDT 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.	Built MDT StateKit Updater application.	Installer file: MDT StateKit Updater 2022.0.1.5.msi	New File
					Installed files location: C:\Program Files\MDT\MDT StateKit Updater*.*	New Files
2022.1.3	State Kit	06/27/22	Need to re-build State Kit file directory structure	Created new directories, and moved and	C:\MDOH\StateKit\Civil 3D\	New Directory

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
	(v1.19)		to work with MDT StateKit Updater application.	modified locations of various C3D files from admin directiories to user accessible directories.	C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle	New Directory
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\	Modified Directory
					C:\ProgramData\Autodesk\C3D 2022\enu\Pipes Catalog\	Modified Directory
					C:\ProgramData\Autodesk\C3D 2022\enu\Survey\	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.lnk	New File
					C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT_2022.arg	New File
					C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Settings.VLX	New File
					C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX	New File
2022.1.3	State Kit (v1.19)	06/27/22	Need to create mechanism for accessing custom MDT C3D tools and content.	Created custom MDT tool palette set.	C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\	New Directory
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Design\Palettes\10_MDT_Design_Main.atc	New File
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Land\Palettes\10_MDT_Land_Main.atc	New File
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Settings\Palettes\10-MDT Settings.atc	New File
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Sheets\Palettes\10_MDT_Sheets_Main.atc	New File
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Sheets\Palettes\20_MDT Page setups.atc	New File
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Sheets\Palettes\30_MDT Text style.atc	New File
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\10_MDT Content.atc	New File
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\20_MDT Subassemblies.atc	New File
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Subassemblies\Palettes\30_MDT Assemblies.atc	New File
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Survey\Palettes\10_MDT_Survey_Main.atc	New File

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
					C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX	New File
					Various thumbnail images & application files in Toolpalette\ directories	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*.*	New Files
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Daylight*.*	New Files
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Parameter Reference*.*	New Files
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Shoulder*.*	New Files
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT ShoulderSub*.*	New Files
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\MDT Sidewalk*.*	New Files
					C:\ProgramData\Autodesk\C3D 2022\enu\Imported Tools\Numeric Control Line*.*	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	New File
					C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_2_Lane.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_4_Lane.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_Divided.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Rural_Divided.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Urban_2_Lane-Sidewalk.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Assemblies\MDT_Widening.dwg	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	New File
					C:\MDOH\StateKit\Civil 3D\2022\Blocks\EL-Standard Details.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Blocks\HY-Details.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Blocks\RD-Notes.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Blocks\RD-Typicals.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Blocks\RD-XS.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Blocks\RW-Plan.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Blocks\SU-Cadastral Notes.dwg	New File
2022.1.3	State Kit (v1.19)	06/27/22	Need to convert 2021 C3D & AutoCAD component content and create 2022 C3D & AutoCAD component content to allow for "plug & play" update capability.	Created directories and files for dimstyles, multileader styles, table styles, layers, layer states, layer filters, linetypes, plot files, and textstyles. Created custom commands to insert component content into drawings.	C:\MDOH\StateKit\Civil 3D\2022\Dimstyles\Dimensions.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Dimstyles\Multileaders.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Dimstyles\Tables.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Layers\layers.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Layers\Layers.xlsx	New File
					C:\MDOH\StateKit\Civil 3D\2022\Layers\MDT All Layers (Standard).las	New File
					C:\MDOH\StateKit\Civil 3D\2022\Layers\MDT-layers.lft	New File
					C:\MDOH\StateKit\Civil 3D\2022\Linetypes\linetypes.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Linetypes\MDT_Linetypes.lin	New File
					C:\MDOH\StateKit\Civil 3D\2022\Linetypes\MDT_SHAPES.shp	New File
					C:\MDOH\StateKit\Civil 3D\2022\Linetypes\MDT_SHAPES.shx	New File
					C:\MDOH\StateKit\Civil 3D\2022\Plotting\Plot Styles\MDT - AllColor.ctb	New File
					C:\MDOH\StateKit\Civil 3D\2022\Plotting\Plot Styles\MDT - Color.ctb	New File
					C:\MDOH\StateKit\Civil 3D\2022\Plotting\Plot Styles\MDT - Grayscale.ctb	New File

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
					C:\MDOH\StateKit\Civil 3D\2022\Plotting\Plot Styles\MDT - Standard.ctb	New File
					C:\MDOH\StateKit\Civil 3D\2022\Plotting\Plotters\MDT PDF (General Documentation).pc3	New File
					C:\MDOH\StateKit\Civil 3D\2022\Plotting\Plotters\PMP Files\MDT PDF (General Documentation).pmp	New File
					C:\MDOH\StateKit\Civil 3D\2022\Textstyles\textstyles.dwg	New File
					C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX	New File
2022.1.3	State Kit (v1.19)	06/27/22	Need to convert 2021 C3D & AutoCAD drawing templates and create 2022 C3D & AutoCAD drawing templates to allow for "plug & play" update capability.	Created drawing templates, sheet templates, reference templates, sheet set template, and supporting reference files.	C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\design-start.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\land-start.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\survey-start.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates_Start-Dwg\x-mdt-build.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\land-group.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\design-group.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\survey-group.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\MDT-DKS.csv	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\desc-keys.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\sheet-ref.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\dgn-linetype-ref.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Sheet Sets\MDT_SSM.dst	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Electrical-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Geometrics-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Hydraulics-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Signing-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Standard-Detail-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Survey-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Utilities-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\PageSetups-ref.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pln-layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pln-layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pro-layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pro-Pro-layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\XS-layouts.dwt	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

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
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	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\desc-keys.dwg	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\MDT-DKS.csv	New File
					C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX	New File
					C:\ProgramData\Autodesk\C3D 2022\enu\Survey\MDT Figure Prefix Database.fdb_xdef	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 (v1.19)	06/27/22	Need to edit and develop various C3D styles for MDT workflows	Various surface, alignment, profile, profile view, section, section view, assembly, code set, point, survey figure styles created. Various label styles created.	C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\full-ref.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\point-ref.dwt	New File
2022.1.3	State Kit (v1.19)	06/27/22	Need sheet borders updated and new sheet layouts created for sheet reference templates.	Created sheet border block library with updated borders and blocks and automated text capability. Created preset sheet layouts and page setups for plan production and publishing. Created custom tools to insert sheet layouts and page setups into drawing files. Created tool palettes for custom tools.	C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\sheet-ref.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Electrical-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Geometrics-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Hydraulics-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_RightOfWay-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Road-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Signing-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Standard-Detail-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Survey-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets_Utilities-Layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\PageSetups-ref.dwt	New File

MDT Civil 3D State Kit Updates

Civil 3D Version	Component (Version)	Date	Issue	Solution	Files and Directories	Remarks
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pln-layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pln-layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pln-Pro-layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\Pro-Pro-layouts.dwt	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Sheets\XS-layouts.dwt	New File
					C:\ProgramData\Autodesk\ApplicationPlugins\MDTSK2022.bundle\Resource\MDT2022Tools.VLX	New File
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Sheets\Palettes\10_MDT_Sheets_Main.atc	New File
					C:\MDOH\StateKit\Civil 3D\2022\Toolpalette\Sheets\Palettes\20_MDT Page setups.atc	New File
					C:\MDOH\StateKit\Civil 3D\2022\Templates\Reference\sheet-ref.dwt	New File