February 2020 Workspace Update

Cell Libraries

In Striping.cel, several changes were made. Cells that were renamed are as follows: CATTLE_GUARD to MISC_CG, CW-SC to MISC_CW-SC, HC to MISC_HC, HOV to MISC_HOV, LEGEND_TITLE to NOTES_LEGEND_TITLE, PLUS to PARKING_P_PLUS, TEE to PARKING_P_TEE, SPEEDHUMP_SH-A to SPEEDHUMP_SH-A, WORD_BUS-S to WORD_BUS, WORD.CrossING to WORD_CRS-LG, WORD_XING to WORD_XNG, YLD to YIELD_BYLD, and YLD-2 to YIELD_YLD. Cells that were added are: BIKE_B, BIKE_BD, BIKE_BLS, and BIKE_BRS (shown below, from left to right, respectively).

Cell Library: Striping.cel

![Cell Library: Striping.cel](image)

Cell CW11-1(T) had a typo (C11-1 was corrected to CW11-1) in TCP.cel.

In Hydro.cel, CHRT_HYDDATA was renamed to TABL_HYDDATA and the following cells were added: TITLE_PLAN, TITLE_PROFILE, TITLE_SECTION_AA, DET_BOULDERS, DET_ROOT_WAD, DET_TREE_SECT, TABLE_AQUATIC_HYDDATA, TABLE_WEIR, TABLE_WEIR_ACRNM, TABLE_WEIR_SPG, and NOTES_WEIR_GEN.

Cell Library: Hydro.cel

![Cell Library: Hydro.cel](image)
There were multiple edits to `bridge.cel`. Cells that were modified are: `A_ProjectArrow`, `T_BridgeID_Marker` (added placeholder text), `A_AhSurface` (removed arrowhead), `D_L_HS25` (changed ft. to '), `D_SpiralSplice` (changed NOTE: to NOTE), `G_SLB_ShearKey` (changed NOTE: to NOTE), `T_DetailRef` (changed/added notes), Misc. `T_XXX` cells (changed NOTE: to NOTE), and `T_FRailTrailEnd` (changed Std. to Standard). Also, the following cells were added: `T_ExtgBentNumbers_MP`, `T_ExtgBentNumbers_Stations`, and `A_AhSurfaceArrow`.

**Cell Library: bridge.cel**

<table>
<thead>
<tr>
<th>A_AhSurfaceArrow</th>
<th>T_ExtgBentNumbers_MP</th>
<th>T_ExtgBentNumbers_Stations</th>
</tr>
</thead>
</table>

**ODOT.cel** - Revised cell `TitleF` to add additional sheet titles. Be aware that some level assignments have changed in `TitleF`; if you use Replace Cell to update your cell to the latest, you may need to adjust your level display. The change/addition results are:

- Level 12 – EROSION AND SEDIMENT CONTROL PLAN
- Level 13 – EROSION AND SEDIMENT CONTROL DETAILS
- Level 14 – WETLAND MITIGATION PLAN
- Level 15 – WETLAND MITIGATION DETAILS

**DGNLIB Changes**
Made the following changes in `ETodot.dgnlib`:

- Added new element template named `WB/R-80` to `Traffic/Striping/Reflectors & Buttons` with `LV=P_TRAF_ROAD_Striping, CO=0, LS=stripe WB/R-80_V8, WT=ByLevel (3)`. Note: WB/R-80 was created by copying YB/R-20 and changing the color of the line from yellow (4) to white (0).
- Added new element template named `Y/R-20` to `Traffic/Striping/Reflectors & Buttons` with `LV=P_TRAF_ROAD_Striping, CO=4, LS=stripe Y/R-20_V8, WT=ByLevel (3)`.
- Added new element template named `W-2/2R-20` to `Traffic/Striping/Reflectors & Buttons` with `LV=P_TRAF_ROAD_Striping, CO=0, LS=stripe W-2/2R-20_V8, WT=5`.
- Changed element template name from `Temp. Conc. Barrier` to `Temp. Barrier` and Line Style from `conc_barrier_v8` to `tcp_bar_med_V8` in the `Traffic>Traffic Control>Channelizing Devices` task.
Also made the following changes in `TASKodot.dgnlib`:

- Added tools `WB/R-80`, `W-2/2R-20`, and `Y/R-20` to `Traffic/Striping/Reflectors & Buttons`.
- Several tools were renamed in `Traffic/Striping/PavementLegends/Arrows`, as shown below.

![Old Tool Comparison](image1)

- Several tools were renamed in `Traffic/Striping/PavementLegends/Elongated Arrows`, as shown below.

![Old Tool Comparison](image2)

- Renamed tool `Wrong Way Arrow` to `WWA: Wrong Way Arrow` in `Traffic/Striping/PavementLegends/Misc Arrows`.  

![Old Tool Comparison](image3)
• Several tools were renamed and/or added in Traffic/Striping/PavementLegends/Bike Symbols, as shown below. The “Old” B : Bike Symbol tool was renamed to Bike Lane Stencil No Arrows and moved to the bottom of the list. The “New” B : Bike Symbol tool is a new tool.

• Several tools were renamed in Traffic/Striping/PavementLegends/Misc Legends, as shown below.
• Tools were renamed in *Traffic/Striping/PavementLegends/Parking*, as follows:
  o from *Plus* to *P : On-Street Parking Plus*
  o from *Tee* to *P : On-Street Parking Tee*

• Tools were renamed in *Traffic/Striping/PavementLegends/Railroad*, as follows:
  o from *BRR (Bike Path RRX)* to *BRR: Bicycle RRX*
  o from *NRR (Narrow Roadway RRX)* to *NRR: Narrow RRX*
  o from *RR (Railroad Crossing)* to *RR: Railroad Crossing*

• A (Asymmetric) tool was renamed to *SH-A : Asymmetric* in *Traffic/Striping/PavementLegends/Speed Hump*.

• Several tools were renamed in *Traffic/Striping/PavementLegends/Words*, as shown below.

• Tools were renamed in *Traffic/Striping/PavementLegends/Yield*, as follows:
  o from *YIELD - Small Line Arrow* to *BYLD: Bicycle Yield Line*
  o from *YIELD - Large Line Arrow* to *YLD: Yield Line*

• *Temp. Conc. Barrier* tool was renamed to *Temp. Barrier* and pointed to the new *Temp. Barrier* element template in *Traffic/Traffic Control/Channelizing Devices*.

• Added tools *Plan*, *Profile*, and *Section AA* to *Geo Hyd Env/Culverts/Drawing Titles*. 
- Added tools **Boulders, Root Wad, and Tree Cross Sections** to Geo Hyd Env/Culverts/Details.
- Added tools **Aquatic Hydraulic Data, Weir Table, Weir Acronyms Table, and Weir Spacing Table** to Geo Hyd Env/Culverts/Tables.
- Added tool **General Weir Notes** to Geo Hyd Env/Culverts/Notes.
- **Hydraulic Data Table** tool in Geo Hyd Env/Culverts/Tables was repointed to changed cell name TABL_HYDDATA.

**Reference Changes**
Replaced CW11-1(T) with corrected one in TCP.cel. Revised the Standard Drawing Lists for Effective Date: 1 June 2020 to 30 November 2020 in cache_tse.dgn.

**Seed Changes**
seed_tse.dgn – corrected yellow reference text to the right of the title block to “5 ROCK SLOPE MITIGATION PLAN”.

seed_titleblock.dgn - Revised model F_Sheets by replacing TitleF cell and updated level list.

**Symbology Resource Changes**
Added three new striping line styles to stripes2V8.rsc – WB/R-80, W-2/2R-20, and Y/R-20.

Added a new tcp_bar_medV8 physical line style representing concrete barrier to tcp_V8.rsc. Also, the ped symbol size was reduced to 75% in tpar1_V8, tpar2_V8, tpar3_V8, and tpar4_V8 – tcp_V8.rsc.
November 2019 Workspace Update

Cell Libraries
Revised COMMISS in Titlesheet.cel to reflect Kris Strickler as Deputy Director.

In ODOT.cel, revised ODOTblk_DP, to add seven more pieces of text on the P_RDWY_PLAN_Detail level in the structure boxes.

Added each piece of new title block text as its own cell in ODOT.cel (origins are lower right corner of a plan sheet border): DP.DE_Num (Design Exception Number), DP.CC.Num (Crossing Closure Number), DP.CP.Num (Corner Position Number), DP.LRM.Num (LRM Number), and DP.R.Num (Ramp Number).

(If the meaning of LRM is unclear, I’ll leave it as Linear Referencing Method, ljt)

Also in ODOT.cel, revised TitleG, TitleH, and TitleL cells to add additional sheet titles. Be aware that some level assignments have changed in TitleH; if you use Replace Cell to update your cell to the latest, you may need to adjust your level display.

In Road.cel, created TDC (Traffic Details Checked) and modified the origin of SDC (Structural Details Checked) cell. For placement, when both cells are snapped to the origin of the plan sheet (lower right corner), the cells will be placed in the margin near the upper left corner.

Removed some duplicated text from ped pole dia in Signals.cel. Also added new and longer mast arm cells, ma60, ma65, ma70, and ma75, as well as a larger pole foundation cell, Pole Foundation 54.

In Erosion.cel, modified the fonts and level of construction class text back to ODOT Slant and P_EC_DESIGN_BMPs in the twelve DET_CKDM* cells.
Changed the level assigned to all Pavement Legend cells in *Striping.cel* to *P_TRAF_ROAD_Legends*, so that the legends may be turned off and the longitudinal pavement marking lines may still be displayed. To take quick advantage of the new cells, use the Replace Cells command in MicroStation with the Method set to Update, Mode set to Global – then select one of each legend cell to replace it.

**DGNLIB Changes**

Added a named expression to the Axiom Office Importer load command in *MENUodot.dgnlib* to enable license checking for laptops running MicroStation. This is seen as two steps to launch the Axiom Office Importer on the ODOT menu when operating a laptop computer connected to the network via a cable at a licensed office.

![ODOT_menu](https://via.placeholder.com/150)

Added a new level in *Lvodot.dgnlib*, *P_HY_STORM_PipeRemAbandon*. The new level will be used when placing abandon or remove pipe symbology, and will allow the display of the symbology to be toggled off when using hydraulic design data for detail sheets.

In *ETodot.dgnlib*, modified the template `Geo/Hydro/Enviro\Hydro\Drainage\Pipe\Abandon` to use the new level *P_HY_STORM_PipeRemAbandon*. Added a new element template named *Construct Perf* to `Geo/Hydro/Enviro/Hydro\Drainage>Pipe` with LV= *P_HY_STORM_PipeCenter*, CO=3, LC=5, WT=5. A new Hydraulics standard will display perforated pipe differently on a plan sheet than solid-walled pipe. Perforated pipe may be easily distinguished on PDFs because the line style uses a shorter dash that is more widely spaced than the solid-walled pipe.

![Perforated pipe example](https://via.placeholder.com/150)

Made the following changes in *TASKodot.dgnlib*:

- Added Design Exception Number, Crossing Closure Number, Corner Position Number, LRM Number, and Ramp Number cells to *General>Titleblocks>Titleblock Text*. These items may be added to an older “B_Sheets” model, in a project name file for title block information, if they are needed; their origins are the lower right corner of a plan sheet border.
• Added a copy of Drainage and Open-Channel tasks to Geo Hyd Env>Stormwater from Roadway>Construct to allow Hydraulic designers who do their own drafting to have access to the hydraulic tasks without navigating to a different discipline.

• Corrected the spelling of Hydraulic Data Table in Geo Hyd Env>Stormwater>Tables.
• Added 60 Ft MA, 65 Ft MA, 70 Ft MA, 75 Ft MA, and Pole Foundation 54 items to Traffic>Signal>Signal Plans>Scalable Items>Pole Foundations & Mast Arms to place those new cells.
• Added the Traffic Details Checked cell to Roadway>Typicals.

In TSoDot.dgnlib, edited the ODOT Bridge dimension style to change the primary unit label format from "MU label SU label" to "MU label-SU label" to add a dash between the foot dimension and the inches dimension.

Seed Changes
Changes to TitleG, TitleH, and TitleL cells were updated in the G_Sheets, H_Sheets, and L_Sheets models in seed_titleblock.dgn. Added a model named B_Sheets_CurbRamp, with level display all set up for the title block of a Roadway Curb Ramp Detail sheet with corner position and ramp number text displayed.
**InRoads XIN Changes**

Updated `civil.xin` to correct the View Stationing preference `ODOT-PlansDetailInch5` to place cardinal leaders 3.000’ in length (half the length of a 1”=10’ cardinal leader).
Cell Libraries

In TCP.cel, added R6-4, R6-4a, R6-4b, and R6-5P for roundabout chevrons and circulation plaque.

In ODOT_Seals.cel, six example cells (*_DS) that were never used for digital signatures were removed.

Three cells were added to geo.cel for bore hole samples: undisturbed, oversized California, and oversized Dames and Moore; they were also added to the legend.

LEGEND

- Bore hole location
- Groundwater measured in the bore hole
- Elevation
- Date of measurement
- Core sample
- Rock Quality Designation
- Standard Penetration Test refusal length
- Standard Penetration Test – N value
- Undisturbed sample
- Oversized sampler (modified California) – blow count
- Oversized sampler (Dames and Moore) – blow count
Multiple edits to **OandM.cel**, **Hydro.cel** and to **TWM.cel** to update leaders to current standards and rename many cells; cells were also updated to current level names and colors. Cell renaming caused the need for edits to the task dgnlib (see DGNLIB Changes below) which provides those cells on the Geo Hyd Env task.

In **Erosion.cel**, updated text sizes and leader standards and corrected origins on cells. **PAT_COMPB**, **PAT_ECMAT** and **PAT_SEEDMUL** were converted to annotation cells; the conversion makes these cells very small and changes the way that you pattern. Turn on the Annotation Scale Lock, start with a pattern scale of 1, and review [Hatching and Patterning with Annotation Scale](#).

Updated four diagram cells in **signals.cel**.

Many changes to cells in **bridge.cel**, including – all project arrows replaced with a green marker symbol and all **D_*** cells getting updated note leaders. List of deleted cells: **A_ProjectArrow_LL**, **A_ProjectArrow_LR**, **A_ProjectArrow_UL**, **A_ProjectArrow_UL**, **M_LineBreak**, **M_Pipe**, **J_ArmoredCorner**, **M_LocationMapLL**, **M_LocationMapUR** and **A_Ah**. Many cells were renamed with more specific names. New cells include: **A_ProjectArrow**, **D_ConstructionJoint1** and **M_LocationMap**.
Revised *ATTEN* and *COMMISS* in *Titlesheet.cel*.

Added *Sl4-5Max* to *Road.cel*.

![Slope Diagram](image)

In *ADA_Detail.cel* deleted *F_HYDR* and replaced it with *F_HYDR_5* and *F_HYDR_10* for use on 1”=5’ and 1”=10’ plans, respectively. The cells are the same size, but *F_HYDR_10* has less interior detail so that when printed smaller (larger scale), it does not appear (too) muddy. Several new cells include *P_ANCHOR*, *P_BASE*, *P_BASE_W_GROUT*, *PED_PEDESTAL*, *PED_PB*, *TS_JB* and *W_VALVE*.

A new cell library was created, *ADA_Layout.cel*, for designers to use for scoping (annotation cells), and also for project detailing (non-annotation cells) to be displayed on 1”=5’ and 1”=10’ scale Curb Ramp Detail sheets. Dimensions and other details are construction class elements and are not shown below.
DGNLIB Changes

Created element templates in ETodot.dgnlib for four new custom line styles (cosmetic) for pedestrian detours to Traffic>Traffic Control>Pedestrian Detour. I and II are one-way, filled and open; III and IV are two-way, filled and open. Element templates were also added in Traffic>Traffic Control>Temp. Conc. Barrier and Ped. Channelizing Devices. The element templates are used in the tasks shown below.

For Bridge, ETodot.dgnlib was modified in Bridge>Plan>Arrows>Project Arrows structure to remove element templates for project arrows that were directional and to add one element template for the new Project Location Arrow (marker). These element templates are used by the tools on the ODOT tasks.

In TASKodot.dgnlib, added Pedestrian Detour task under Traffic>Traffic Control workflow with four tools to place line styles: TPAR One-Way (Style I), TPAR One-Way (Style II), TPAR Two-Way (Style III), and TPAR Two-Way (Style IV). Added Temp. Conc. Barrier and Ped. Channelizing Devices tools to the Traffic>Traffic Control>Channelizing Devices task.
There were so many changes to the Geo Hyd Env>OM Operational Plan tasks in TASKodot.dgnlib, that we’ll let the pictures explain. In the pairs of images below, the old task is shown on the left side and the new task is shown on the right.

First there are the new tasks for Component Labels that you can see below on the right image: Bioslope/Filter Strip, Catch Basin, Manhole, Stormwater Pond, and Tank/Vault.
Secondly, ten isometric shapes were added to Geo Hyd Env>OM Operational Plan>Shapes for Inlet, Manhole, Pipe, and Type D Inlet; they are now at the bottom of the list.
Remember all those cells in `OandM.cel` that got renamed? Well, there are five new (for a total of seven) *OM Operational Plan* tasks that separate those label cells by type of item!

Added Undisturbed Sample, Modified California Blow Count, Dames and Moore Blow Count and Standard Penetration Test to `TASKodot.dgnlib`, under `Geo Hyd Env>Subsurface Data>Symbols` task.
Bridge made modifications to TASKodot.dgnlib in the Bridge>Cells task, removing all project arrows (old task on the left) and replacing with one Project Location Arrow (marker), shown in the new task on the right; the traffic direction arrows were replaced with a tool that performs an interactive placement of traffic direction arrows – watch your tool settings!
To **TASKodot.dgnlib**, also added Line Break, Pipe Break, and Location Map tools to *Bridge>*Cells>*Misc Cells*; the Location Map can be used in either the upper right or lower left border locations.

Roadway added more tools to **TASKodot.dgnlib** in *Roadway>*Curb Ramp Details to place new cells (interactively) for use in 1”=5’ and 1”=10’ Curb Ramp Detail sheets. There are now 32 tools on this task.

**Reference Changes**

New cells R6-4, R6-4a, R6-4b, and R6-5P were placed into **TCPV8.dgn**. **OR22-8(T)** was also added to the cache file. Some spacing and positions were modified for a better overall fit.

The Standard Drawing List was revised in **cache_tse.dgn**.

**Seed Changes**

**seed_tse.dgn** and **seed811tse.dgn** - Replaced cells *ATTEN* and *COMMISS*.

**SeedRW2d.dgn** – The maps naming convention was changed, so the names of the models were changed to reflect the new naming. *A Maps* became 36x200-, *B Maps* became 24x200-, *1R3 Maps* became 12x24, *1R4 Maps* became 11x17. Also added 3 new models with borders: 8 ½” X 11” border, 18” X 24” border and a *Survey Approval Map* border (8 ½” X 11”).
seed_GTsub.dgn and seed_TWM.dgn – Imported corrected and updated cells from the cell library; rearranged the sheet layout as needed.

seed_OM.dgn – added an isometric example.

Symbology Resource Changes
Added four new pedestrian detour line styles to tcp_V8.rsc – tpar1_V8, tpar2_V8, tpar3_V8, and tpar4_V8.

USERCFG Changes