OpenRoads Designer

ADOT is using OpenRoads Designer (ORD) as delivered by Bentley as much as possible (out of the box). ADOT wants the new CADD to be a complete break from the old. ADOT wants to spend our time enhancing our 3D modeling, by creating ADOT Standard 3D features.

MicroStation scales were exaggerated while InRoads were not. With the CONNECT Edition platform both are true scale 1:1. Sheet Seeds and the Border files were customized.

ADOT has brought some items forward from V8i, cells and linestyles were scaled down. Linestyles no longer contain the _e definition. ADOT has no group custom pull-down menus. ADOT adopted CONNECT edition levels, working units and our text is True Type Arial. ADOT has adopted the Arizona Geographic Coordinate System. ADOT brought forward our Cut and Fill linestyles and the grass is now shown as dirt. ADOT used our NORTHA cell for North Arrow and LTERMA cell for line terminators. Our survey resource files were all redone, using ESS point codes and the revised cells and linestyles. The Subsurface Utilities nodes/cells where revised as necessary. E_Geom_Baseline was added for existing alignments and Geom_Baseline LEFT ANNO for annotation on the left side of the alignment. OpenBridge was incorporated into the configuration.

ADOT adopted a one project directory structure and a single configuration defined at the Organizational Level.

The software that was tested is as follow:
OpenBridge Designer v10.08.00.17
ProStructures v10.03.00.58
OpenRoads Designer v10.07.03.18
MicroStation CONNECT 10.13.01.01 Update 13
OpenRoads SignCAD v10.00.00.12
OpenCities Map v10.04.00.42

OpenRoads Designer known issues:
1. Horizontal Spiral Curve Annotation bad spiral curve data.
2. Horizontal Annotation collisions
3. Vertical Alignments can only use one, 2 was the active profile and it showed the results of 1.
4. Survey Data in Cross Section turn off Closed Shape Treeline level=E_Lnsc.
5. The survey 3D file, field book import works, but saving it to a Terrain Model and using it for the corridor does not.
6. 3D Spillways and Downdrains need updating to meet current standards