

Refer to the CFLHD CADD manual Geopak Chapter 6 located on the FLH website for more information on drawing elements stored in COGO (including horizontal alignment and pay item elements): [http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter6\\_Linestyles\\_v8i.pdf](http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter6_Linestyles_v8i.pdf)

Make sure elements are placed with the proper symbology: Use the GEOPAK D&C manager to draw elements where possible. For manual drafting, use the FLH\_Combined.dgnlib and select the appropriate level, using ByLevel symbology where possible. Refer to the CFLHD CADD manual Chapter 9 located on the FLH website for more information: [http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter9\\_LevelsAndSymbology\\_v8i.pdf](http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter9_LevelsAndSymbology_v8i.pdf)

STATE	PROJECT	SHEET NUMBER
ST	PROJECT NAME PROJECT NUMBER	D9

Label intersection stations.

This is an option for showing bearings along tangents. (Use this option to minimize clutter.)

Show appropriate curve information

Use proper turning radii and widths - verify with design vehicle.

Show both slope stake and clearing limits. Use GEOPAK "Limits of Construction" to get slope stake limits. Refer to the FLH CADD Help and Reference page at [http://flh.fhwa.dot.gov/resources/cadd/cfl/documents/Workflow\\_10.4\\_v8i.pdf](http://flh.fhwa.dot.gov/resources/cadd/cfl/documents/Workflow_10.4_v8i.pdf) Use the 3PC "Draw Clearing Limits in Plan View" in the D&C Manager.

Check and document intersection sight distance.

Intersect at 90° where possible

Label approach road when appropriate

Use FY-14 border

Cells for patterns are found in Drafting\_x30.cel. Refer to the CFLHD CADD Manual Chapter 8 located on the FLH website for more information on cell libraries: [http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter8\\_CellLibraries\\_v8i.pdf](http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter8_CellLibraries_v8i.pdf)

**CFL SAMPLE PLAN SHEET**

Minor\_P&P\VP(P\APP)\Sample\_4R.dgn  
Sample Plans\SamplePlanUpdates\4R Sample Sh

Label intersection stations and elevation.

Typically use a larger scale for approach roads: 1:50

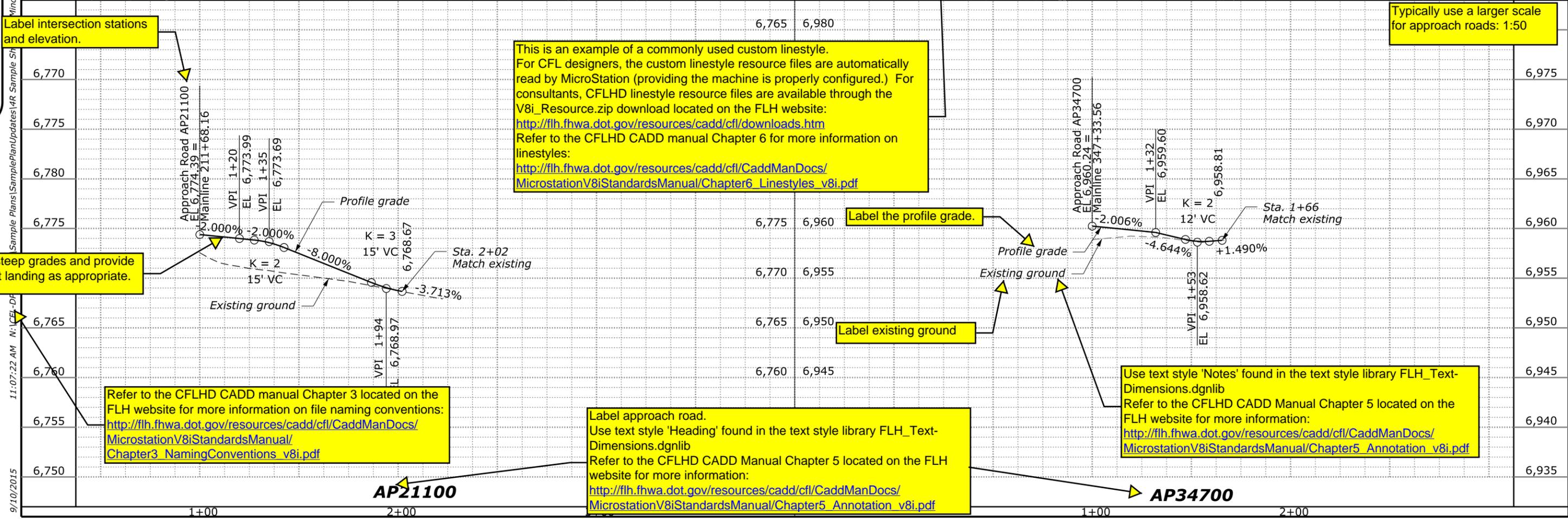
This is an example of a commonly used custom linestyle. For CFL designers, the custom linestyle resource files are automatically read by MicroStation (providing the machine is properly configured.) For consultants, CFLHD linestyle resource files are available through the V8i\_Resource.zip download located on the FLH website: <http://flh.fhwa.dot.gov/resources/cadd/cfl/downloads.htm> Refer to the CFLHD CADD manual Chapter 6 for more information on linestyles: [http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter6\\_Linestyles\\_v8i.pdf](http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter6_Linestyles_v8i.pdf)

Minimize steep grades and provide a sufficient landing as appropriate.

Refer to the CFLHD CADD manual Chapter 3 located on the FLH website for more information on file naming conventions: [http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter3\\_NamingConventions\\_v8i.pdf](http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter3_NamingConventions_v8i.pdf)

Label approach road. Use text style 'Heading' found in the text style library FLH\_Text-Dimensions.dgnlib Refer to the CFLHD CADD Manual Chapter 5 located on the FLH website for more information: [http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter5\\_Annotation\\_v8i.pdf](http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter5_Annotation_v8i.pdf)

Use text style 'Notes' found in the text style library FLH\_Text-Dimensions.dgnlib Refer to the CFLHD CADD Manual Chapter 5 located on the FLH website for more information: [http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter5\\_Annotation\\_v8i.pdf](http://flh.fhwa.dot.gov/resources/cadd/cfl/CaddManDocs/MicrostationV8iStandardsManual/Chapter5_Annotation_v8i.pdf)



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