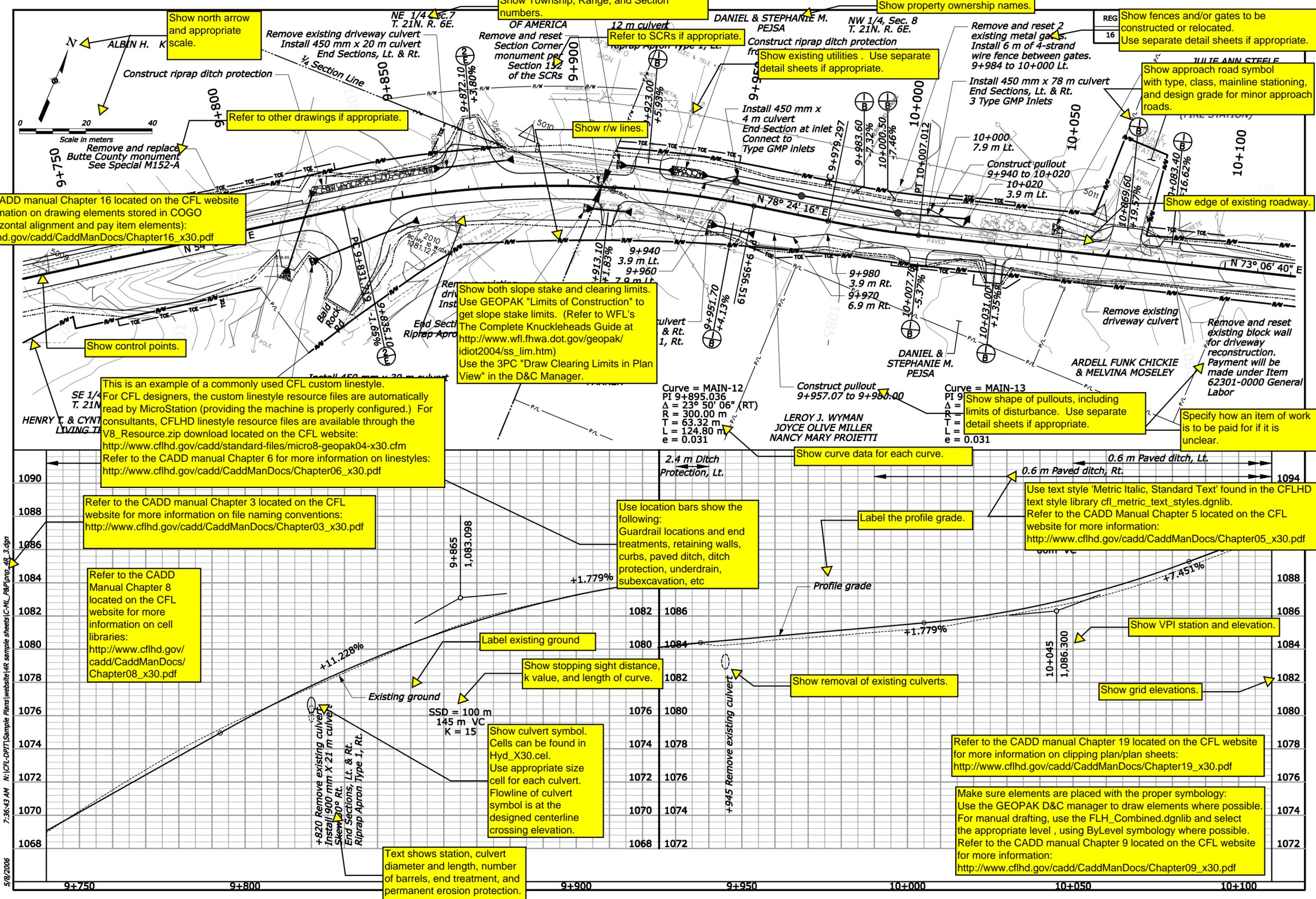


CFL SAMPLE PLAN SHEET



Show north arrow and appropriate scale.

Show Township, Range, and Section numbers.

Show property ownership names.

Show fences and/or gates to be constructed or relocated. Use separate detail sheets if appropriate.

Show approach road symbol with type, class, mainline stationing, and design grade for minor approach roads.

Show edge of existing roadway.

Specify how an item of work is to be paid for if it is unclear.

Refer to the CADD manual Chapter 16 located on the CFL website for more information on drawing elements stored in COGO (including horizontal alignment and pay item elements): http://www.cflhd.gov/cadd/CaddManDocs/Chapter16_x30.pdf

Show control points.

This is an example of a commonly used CFL 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 V8_Resource.zip download located on the CFL website: <http://www.cflhd.gov/cadd/standard-files/micro8-geopak04-x30.cfm> Refer to the CADD manual Chapter 6 for more information on linestyles: http://www.cflhd.gov/cadd/CaddManDocs/Chapter06_x30.pdf

Show both slope stake and clearing limits. Use GEOPAK "Limits of Construction" to get slope stake limits. (Refer to WFL's The Complete Knuckleheads Guide at http://www.wfl.fhwa.dot.gov/geopak/idiot2004/ss_lim.htm) Use the 3PC "Draw Clearing Limits in Plan View" in the D&C Manager.

Curve = MAIN-12
 PI 9+895.036
 Δ = 23° 50' 06" (RT)
 R = 300.00 m
 T = 63.32 m
 L = 124.80 m
 e = 0.031

Curve = MAIN-13
 PI 9+951.70
 Δ = 19° 57' 17"
 R = 100.00 m
 T = 17.46 m
 L = 33.92 m
 e = 0.031

Refer to the CADD manual Chapter 3 located on the CFL website for more information on file naming conventions: http://www.cflhd.gov/cadd/CaddManDocs/Chapter03_x30.pdf

Refer to the CADD Manual Chapter 8 located on the CFL website for more information on cell libraries: http://www.cflhd.gov/cadd/CaddManDocs/Chapter08_x30.pdf

Use location bars show the following: Guardrail locations and end treatments, retaining walls, curbs, paved ditch, ditch protection, underdrain, subexcavation, etc

Label the profile grade.

Use text style 'Metric Italic, Standard Text' found in the CFLHD text style library `cfl_metric_text_styles.dgnlib`. Refer to the CADD Manual Chapter 5 located on the CFL website for more information: http://www.cflhd.gov/cadd/CaddManDocs/Chapter05_x30.pdf

Label existing ground

Show stopping sight distance, k value, and length of curve.

Show removal of existing culverts.

Show grid elevations.

Show VPI station and elevation.

+820 Remove existing culvert
 Install 900 mm X 21 m culvert
 Skew 70° Rt.
 End Sections, Lt. & Rt.
 Riprap Apron Type 1, Rt.

Text shows station, culvert diameter and length, number of barrels, end treatment, and permanent erosion protection.

Show culvert symbol. Cells can be found in `Hyd_X30.cel`. Use appropriate size cell for each culvert. Flowline of culvert symbol is at the designed centerline crossing elevation.

Refer to the CADD manual Chapter 19 located on the CFL website for more information on clipping plan/plan sheets: http://www.cflhd.gov/cadd/CaddManDocs/Chapter19_x30.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 CADD manual Chapter 9 located on the CFL website for more information: http://www.cflhd.gov/cadd/CaddManDocs/Chapter09_x30.pdf

5/8/2006 7:36:43 AM N:\CFL-DPT\Sample Plans\Website\4R sample sheets\C-ML_P&P\mp_4R_3.dgn