

Table of Contents

CHAPTER 7 : CELL LIBRARIES

- 7.1 - Introduction to Cell Libraries**
- 7.1.1 - FLH Cell Libraries**
- 7.1.2 - EFLHD Cell Libraries**
- 7.2 - Attaching EFLHD Cell Libraries**
- 7.3 - Creating Models as Cells**

CHAPTER 7 – CELL LIBRARIES

7.1 – Introduction to Cell Libraries

The cell libraries currently in use at EFLHD contain signs, figures, symbols, borders, State maps, etc. The cell libraries have been organized based on cells types within the libraries. This, in most cases, will prevent the user from having to search through many cells to find the desired one. Cell libraries have the same format as .dgn or .dgnlib files, making it easy to edit and create new cells.

This chapter contains information about the EFLHD cell libraries including:

- Names of cell libraries
- Description of each cell library
- Locations of cell libraries, both internally and for consultants

There is also guidance for using these cell libraries throughout this chapter for attaching cell libraries, using cell selector, and defining variables within MicroStation to make finding cells and cell libraries easier.

Annotation Cells

Annotation cells are cells that obey the rules of annotation scale. While the annotation lock is on, the cells are scaled by the current annotation scale.

Annotation scale for cells is a new feature within MicroStation. FLH and EFLHD have not yet established a new set of cell libraries to standardize the use of cell scaling.

Project Specific and Personal Cells

There is often a need for an individual user to create cells during the course of a project for things such as:

- Creating standards notes to be used on multiple sheets.
- Copying information from sheet to sheet.
- Copying information for another user within the project.

While these are valid reasons for creating cells, they must not be placed within the EFLHD standard cell libraries listed below. In these cases, simply create a new cell library and create the new cell there. Once the information has been used the temporary cell library may be deleted, or the temporary cells within the cell library may be deleted.

7.1.1 – FLH Cell Libraries

Federal Lands Highway divisional offices share some common cells for like practices and procedures. These FLH cell libraries are found within the V8i_resources:

M:\Engineering_Software\Cadd_resource_v8iX_30\Standards\Cell_Lib\FLH_Criteria.cel.

7.1.2 – EFLHD Cell Libraries

At EFLHD there are currently 8 cell libraries for general use. The EFLHD cells have been divided into cell libraries based on the type of sheet the cells will most likely be used on. See the table below for a list of cell libraries and a short description of each.

File Name	Description
Drafting_X30.cel	Cells used for the final drafting stage, including cells such as north arrows, bar scales and patterns.
eflhd_drainage_.cel	Cells typically shown for drainage items.
eflhd_engborder.cel	English sheet border cells for plan sheet composition tools.
eflhd_EngCell.cel	Misc. cells for plan sheet composition.
eflhd_geotech.cel	Cells typically shown for geotech items.
eflhd_MAPS.cel	Cells for Eastern region State maps. For use on Title Sheets.
FLH_Criteria.cel	Cell used for X30 Criteria. (Includes guardrail, concrete barrier, etc.,)
FLH_Terminators.cel	Common terminator cells used for annotation using dimensions or notes
eflhd_SIGN.cel	Cells for use on signing plans.
eflhd_SIGN_2009.cel	Cells for use on signing plans (UPDATED to latest MUTCD sign numbers, graphics and sizes)

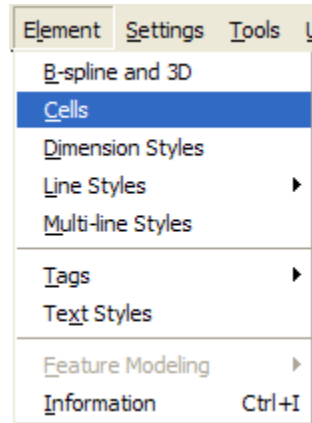
These cell libraries are to be used on all EFLHD projects and are located on the EFLHD network at:

M:\Engineering_Software\Cadd_resource_v8iX_30\Standards\Cell_Lib

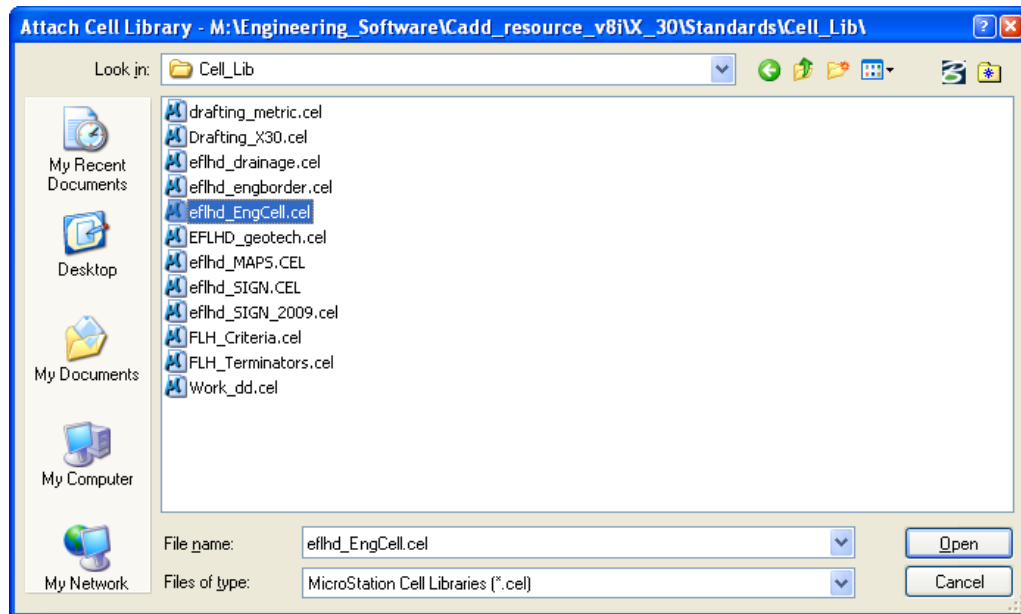
These cell libraries cannot be edited by anyone other than the EFLHD CADD Coordinator. If you have suggestions for new cells, edits to existing cells, or general suggestions regarding the EFLHD cell libraries please address these to the CADD Coordinator as detailed in Chapter 1.

7.2 – Attaching EFLHD Cell Libraries

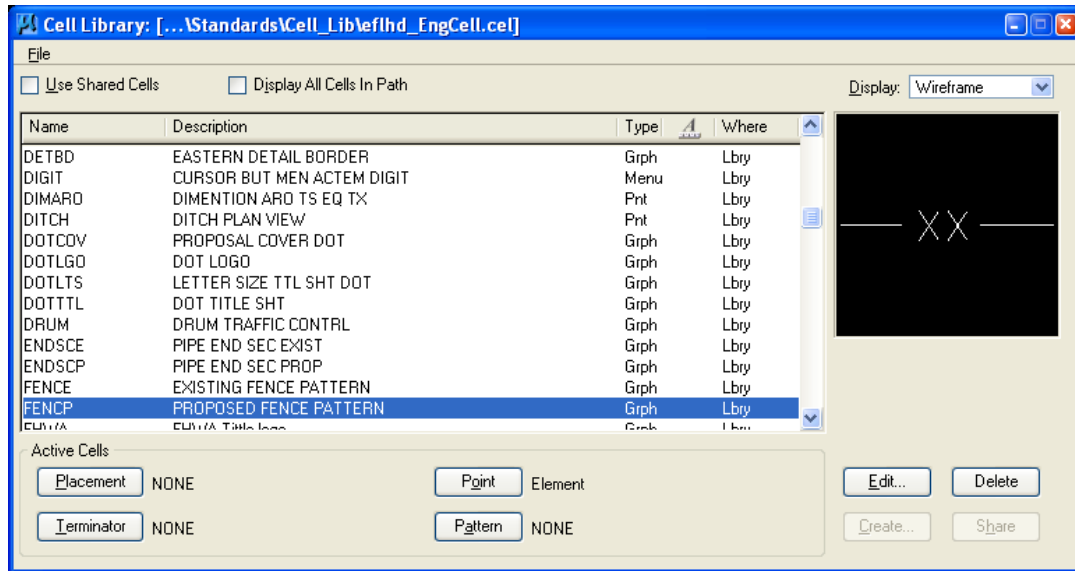
1. From the MicroStation drop down menu, select **Element > Cells**.



2. The cell library dialog will now be accessible. Select **File > Attach File**, and navigate to the desired cell library.



Once selected, the cells will be visible in the windows on the Cell Library palette.



3. Once identified, choose how you wish to place the cell. Placement, Terminator, Point or Pattern.

4. Use the **Cells** tool to place a Placement cell.



5. Use the **Patterns** tool to place an area pattern or linear cell.

