

# 9.0 Chapter Nine - Construction Final Plans

Construction Final Plans should accurately reflect the project as-built condition. Either MicroStation or Redline software can be used to electronically mark-up as-built information. Construction personnel have been trained in the use of the Redline package. This is the preferred method for providing “mark-up” drawings for designers to incorporate as-built conditions. The file format for redline lines will utilize the .rdl extension. The Redline files with the unique file extension (.rdl) should be stored in the same location as its corresponding Design file (.dgn).

## 9.1 MicroStation Construction Tools

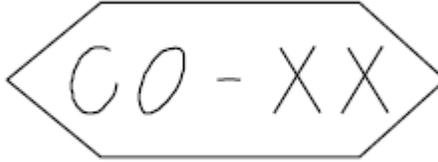
### 9.1.1 Levels

Two levels have been created for use in documenting construction as-built information. It is imperative that as-built information be stored on these levels so the user or future users can discern “as-built” information from “as-designed” information. Currently there is one level for line work and one for annotation, as detailed below.

Level Name	Color	Line Style	Weight
CONST_As-Construct-Linework	112	0	2
CONST_As-Construct-Text	112	0	2

### 9.1.2 Cells

The construction cell library contains a cell called Revision\_For\_Construction. Once the construction cell library has been attached, the cell can be placed in the Redline drawing with the MicroStation Cell placement commands. The cell should be placed with a scale equivalent to the Annotation Model Properties scale factor or the border insertion scale. By using the Element Information command, the border scale can easily be identified. Once the cell has been placed, it should be edited with the MicroStation edit text command.



Cell Name: Revision\_For\_Construction  
 Cell Type: Graphic Cell

### 9.1.3 Text Styles

Two Text Styles have been created for Construction use. Both text styles utilize the AsConst font but differ in text size, as shown below. .07 Const-100 is the default text style when using the Construction seed file to create drawings. This should be used for marking up as-built information where possible. The .14 Const-100 text style should be used for placing detail title “call-outs” or text that needs to be emphasized. See chapter 5, section 5.4 for more detailed information on text styles.

Text Style	Text Height	Text Width	Font
.07 Const-100	0.070	0.070	AsConst
.14 Const-100	0.140	0.140	AsConst

.07 CONST-100

.14 CONST-100