

NCDOT ROADWAY DESIGN PUBLIC HEARING MAP

CHAPTER 9: LAYOUT SHEET DIMENSION

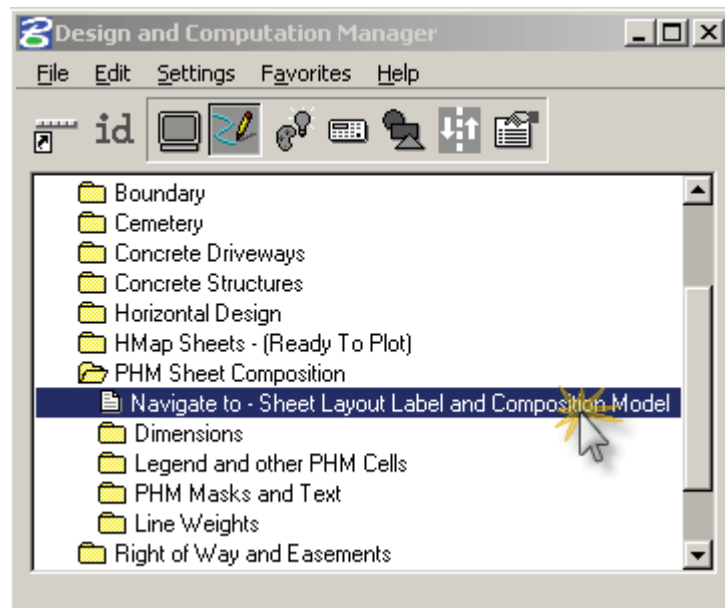
RDY PHM Sheet Layout Label and Composition Model

Determine the Limits of Hearing Map Sheets

Navigate RDY PHM Sheet Layout Label and Composition Model

Step 1.

Navigate (double click) to the RDY PHM Sheet Layout Label and Composition model.



Step 2.

Determine the hearing map scale.

RDM, Part II, Chpt. 21, 3A

NOTE: For the full size hearing map, please consider a scale of 1" = 100'(1:1000 in metric units) for "curb type" urban widening projects and a scale of 1"= 200'(1:2000 or 1:2500 in metric units) for rural, new location projects.

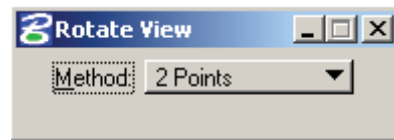
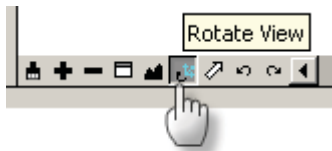
NCDOT ROADWAY DESIGN PUBLIC HEARING MAP

Step 3.

Determine how many sheets are needed. Considered a maximum length of 12' for per sheet full size.

Step 4.

Rotate view by 2 points. Identify the beginning first point at the beginning of sheet centerline. Then identify the last point near the end of sheet centerline.



C1



C2



NCDOT ROADWAY DESIGN PUBLIC HEARING MAP

Step 5.

Determine the width of the sheet. Once the view is rotated (zero to the sheet), construct a vertical line representing the width of the sheet. It is not important what level this is on because this line will get deleted later. The width of sheet is determined by multiplying the hearing map scale by the color plotter Y limit. Currently the plotter Y limit is set to 35.49 inches (36-inch roll).

For example, if the hearing map scale is 1"=100', then the width of each hearing map sheet is 35.49 x 100 = 3549' full size.

Use level **Prop PHM Sheet Cutting Line**.

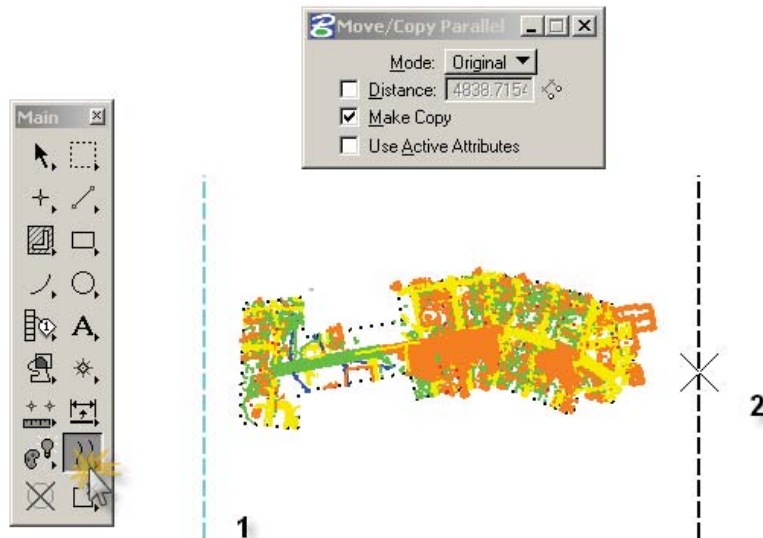


Note that the sheet length, plotter X limit, is varies from project to project. Virtually it is the length of the paper roll currently set to 3,600 inches (300 feet). Remember that it is recommended that full size hearing maps do not exceed 12' in length due to the limitation of the wall space and lengths hung for the hearing map reviews.

NCDOT ROADWAY DESIGN PUBLIC HEARING MAP

Step 6.

Copy parallel the sheet width line from the left side to the right side. This will effect the length of the sheet.



Recheck to see that the hearing map has not exceeded the recommended 12' length.
Measure the distance between the two vertical lines and divide by the hearing map scale.

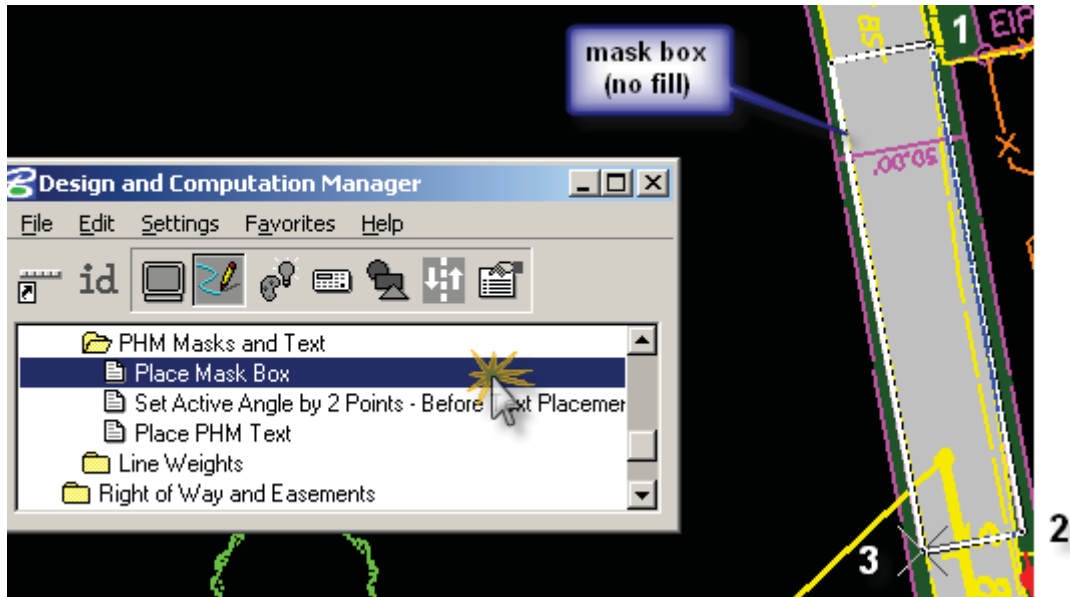
For example, 4809 (measured) / 100 (scale) = 48 inches or 4 feet (approximate length of sheet full size).

Placing Labels

NCDOT ROADWAY PUBLIC HEARING MAP

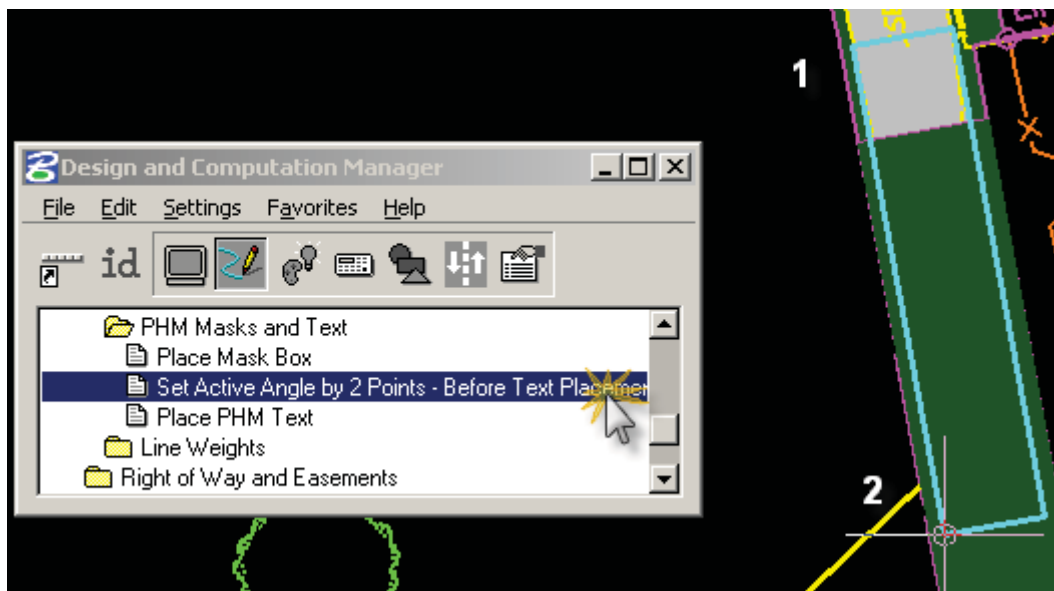
Step 1.

Place the mask box. Double-click on the **Place Mask Box** item. The default method is the rotated **Place Block** command. By design the mask box is not filled because later on text will be placed inside the box and it can be viewed.



Step 2.

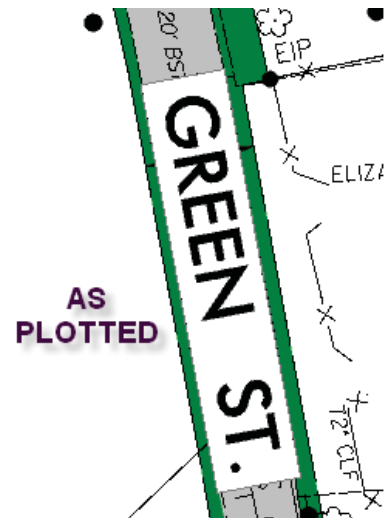
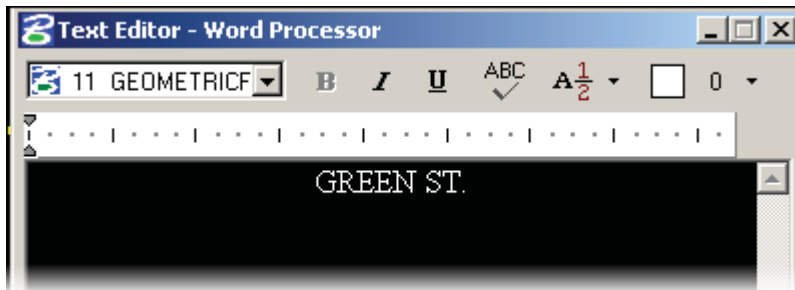
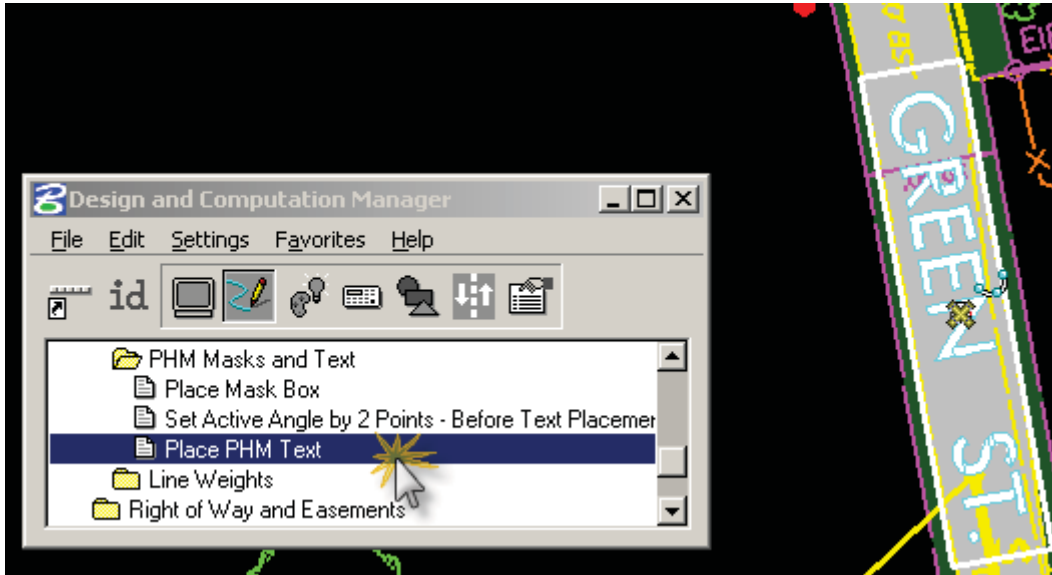
Set active angle by 2 points. This step will set the angle for the text to be placed in the next step. Double-click on the **Set Active Angle by 2 Points – Before Text Placement** item. Data point to the two key points to set the active angle.



Step 3.

NCDOT ROADWAY PUBLIC HEARING MAP

Last, place the text inside the mask box. Double-click on the **Place PHM Text** item. Key-in the desired text and place the text. Note the set angle of the text.



Hands on Review

NCDOT ROADWAY PUBLIC HEARING MAP

1. Navigate to the **RDY PHM Sheet Layout Label and Composition** file model.
2. Layout the hearing map sheet.
 - 1 hearing map sheet.
 - Scale: 100 (max sheet width is 3,549')
 - Consider enough room for the hearing map sheet flaps.
 - Calculate a rough estimate of sheet length (in feet).
3. Label the various street names.