

That CAD Girl

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Carlson 2008 - LotNet Overview

1. Draw/Create a closed polyline representing the main boundary
2. Draw polylines to represent centerlines of streets
 - a. Do not draw right of way or cul de sacs
 - b. Draw polylines in the direction of increasing stations
 - c. If centerlines stop at boundary, they MUST be perpendicular to the boundary
3. Create centerline (.cl) file for each centerline - For more details, refer to *That CAD Girl* document [Carlson 2008 - Create Centerline Files and Create Station Labels](#)
 - a. Go to Centerline> Polyline to Centerline File
 - b. On the New tab, select a folder and specify a file name for new centerline (.cl) file
 - c. Set starting station
 - d. Select polyline
4. Station centerline
 - a. Centerline> Station Polyline/Centerline
 - b. Enter desired settings
 - c. Select .cl file
5. If centerlines are accidentally defined in the wrong direction, you will need to reverse their direction
 - a. Go to Centerline> Input-Edit Centerline File
 - b. Select the "Load" button
 - c. Browse to and select the centerline file (.cl) to be reversed
 - d. Click on the "Reverse" button
 - e. Click on "Save" and then "Exit"
 - f. The polyline in the drawing that represents the centerline file AND the stationing should be automatically updated to reflect the change in direction
6. Repeat for all centerlines
7. Set Lot Network Settings
 - a. Area/Layout> Lot Network Settings or icon on Lot Network Toolbar
 - b. On the New tab, select a folder and specify a file name for new Lot Network (.ltn) file
 - c. UNcheck Label Lines/Curves
 - d. Check "Draw Setback" and pick the "Settings" button to set the setback values
8. Set boundary polyline
 - a. Area/Layout> Lot Network Boundary> Set Boundary or pick icon on toolbar
9. Start Road Net via the Lot Net menu or toolbar
 - a. Area/Layout> Lot Network Roads> Road Network or pick icon on toolbar
 - b. On the New tab, select a folder and specify a file name for new Road Network (.rtn) file
10. Establish Road Network settings
 - a. In Road Net palette, click on "Settings" button
 - b. Set default intersection radius
 - c. Set "Process On Updated Centerline" to "Prompt"
 - d. Put check next to "Create Lots" and pick "Settings" button

Carlson 2008 - LotNet Overview

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11. Add centerline files to Road Network
 - a. In Road Name section of Road Net palette, pick the "Add" button
 - b. Select "Centerline File" button
 - c. Select the file for the primary road in the network
 - d. Set the right of way dimensions
 - i. In the "Edit Road" dialog, select the button for "ROW Offsets"
 - ii. On the New tab, select a folder and specify a file name for new Right of Way (.row) file - example "50ROW.row" for a 50' right of way
 - iii. Back in the "Edit Road" dialog, pick the "Edit" button next to the ROW Offsets file name
 - iv. Set the "ROW Left" and "ROW Right" dimensions and any others desired
 - v. Click Save and then Exit
 - vi. Click on OK to finish and close out of all dialog boxes
12. Repeat for all roads
13. Add cul de sacs
 - a. In the Cul de Sac section of the Road Net palette, pick the "Add" button
 - b. Select the road to add the cul de sac to
 - c. Pick the radio button next to Start or End to set the location
 - d. Set the radius of the cul de sac and fillet radius
 - e. Specify an offset if needed
14. Repeat for all cul de sacs
15. On Road Net palette, click Save
16. On Road Net palette, click Process
17. Edit Lot Edges
 - a. Use commands under Area/Layout> Lot Network Linework or icons on toolbar
 - b. To create a new lot line, draw new line with a polyline and then >Add Lot Edge
 - c. Remove a lot line by >Remove Lot Edge
 - d. Change a lot line by >Add Lot Edge Point (adds a vertex), >Remove Lot Edge Point (removes a vertex) or >Move Lot Edge (moves vertex)
18. Change a lot edge to create a specific area
 - a. Area/Layout> Lot Network Areas>
 - b. Can slide a lot edge using > By Sliding Side Area
 - c. Can hinge a lot edge using > By Hinged Side Area
 - d. Can subdivide an area using > Subdivide Area
19. Add labels
 - a. Area/Layout> Lot Go to Lot Network Settings and put check next to "Label Lines/Curves"
 - b. Go to Lot Network Labels> Redraw All Lot Network Labels
20. Print Report
 - a. Area/Layout> Lot Network Utilities> Lot Network Report