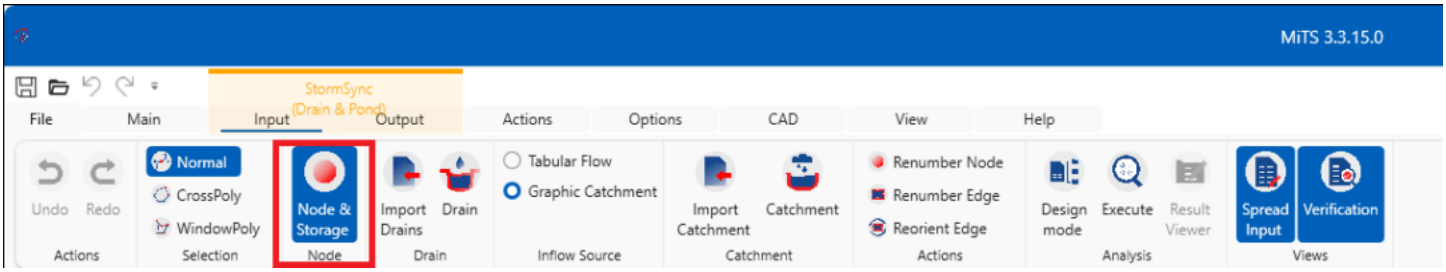
Creating Drainage Network System

Drain · https://mes100.com/docs/creating-drainage-network-system/

Using the “**Node**” and “**Drain**” buttons, a drainage network can be easily created on the Input Plan.

Node

Input the node on the Input Plan by clicking the “**Node**” button.



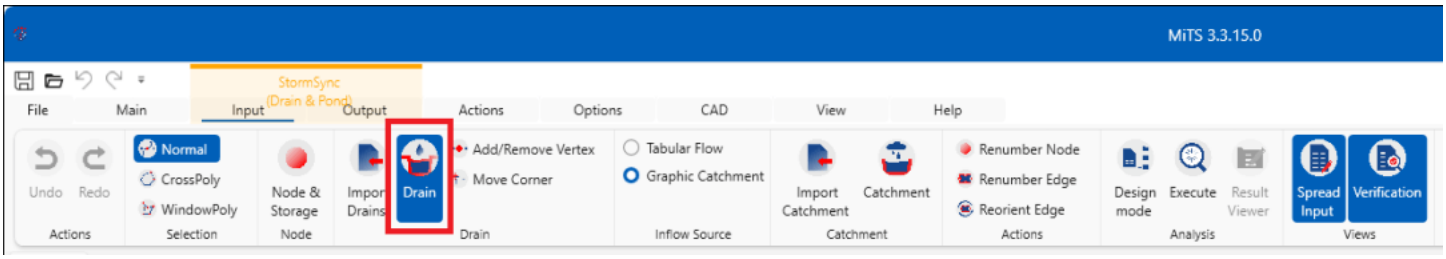
To input the node, users have to click once on the Input Screen. Then, users can start to locate the nodes on the Input Plan.

Note: Object Snapping

Object snapping can be called out either by Ctrl + right-mouse click or by clicking the ‘Snap’ button.

Drain

Input the drain on the Input Plan by clicking the “**Drain**” button.



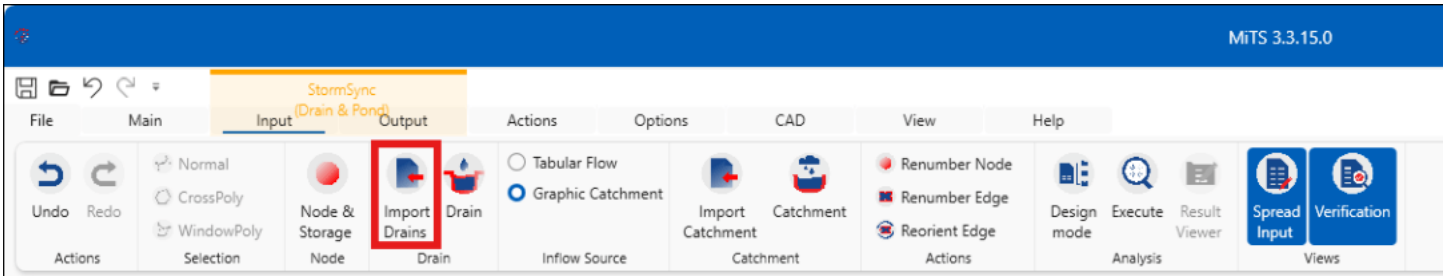
To input drains, users have to connect one node to another. Click on the Input Plan while drawing drain will also generate nodes simultaneously.

To model a drain without a node, users have to click on “SHIFT + left click mouse”.

Instead of clicking, the drain points can also be typed in as coordinates (`x,y`), or as a length and angle (`45<80`). Typing a point as `x,y,z` sets the ground level of the new node there. See Drive Inputs by Typing Coordinates, Lengths and Angles.

Importing Drain

To import drains from ACAD, click ‘**Import Drains**’ and select the layer that represents your drain network, and click ‘**Import**’.

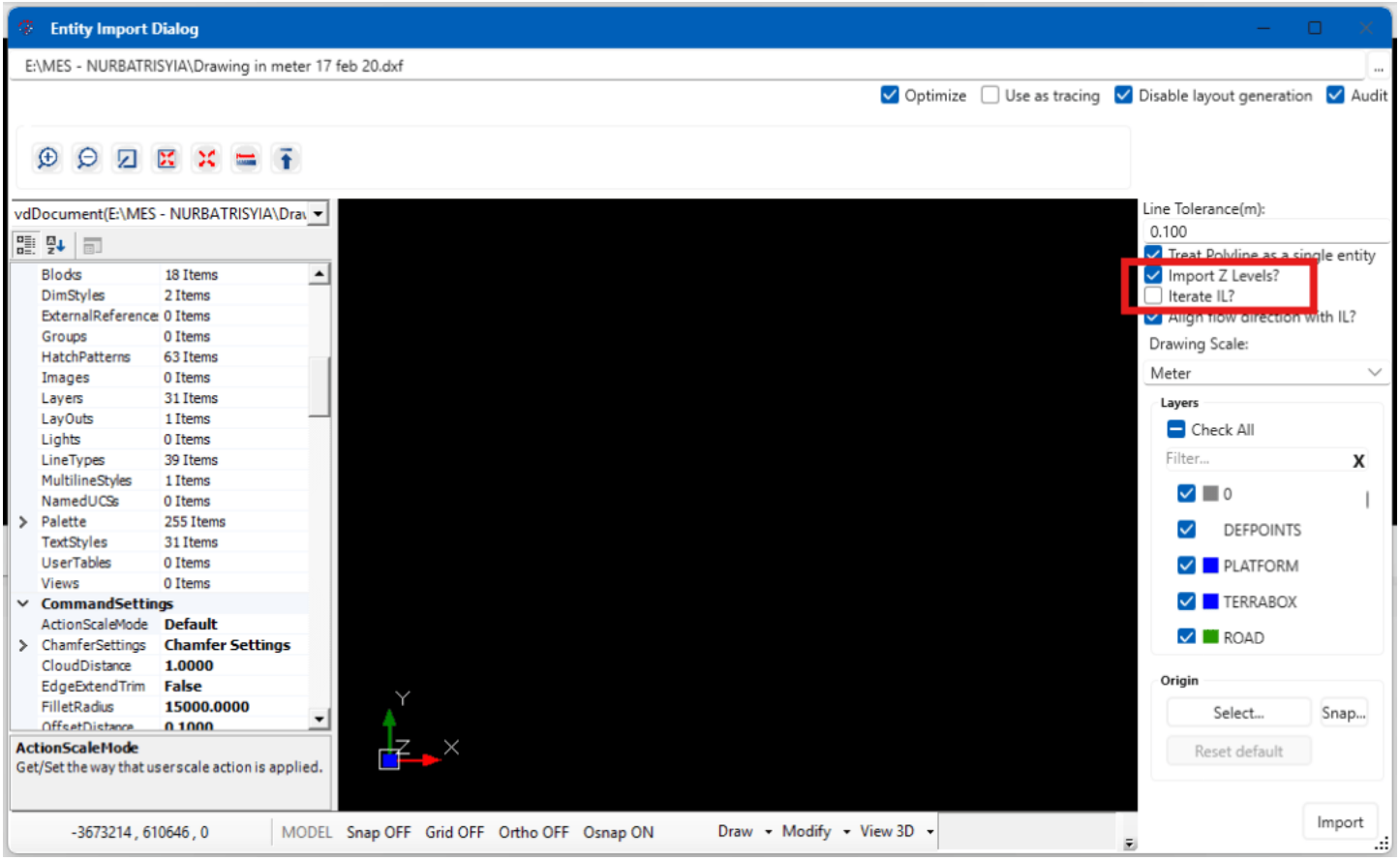


Import Drain with ‘Z-values’

When importing drain, users are now able to import the ‘Z-values’ as well.

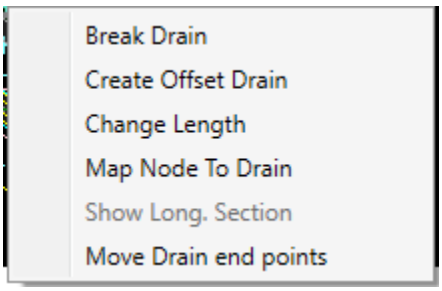
Note: Z-values imported are the drain invert level (IL)

If the intention is to iterate the drain invert level (IL), users may check ‘**iterate IL**’



Features of Drain

Click on the drain and right-click to open the features list.



1. Break Drain

- To break a drain into several drains at a certain length.

Embedded media: https://www.youtube.com/embed/g-m8T-1ha9Q?version=3&rel=1&showsearch=0&showinfo=1&iv_load_policy=1&fs=1&hl=en-US&autohide=2&wmode=transparent&enablejsapi=1

2. Create Offset Drain

- To set a drain with the same length and orientation at a certain offset distance from the original drain selected.

Embedded media: https://www.youtube.com/embed/OlBFgTF-QoE?version=3&rel=1&showsearch=0&showinfo=1&iv_load_policy=1&fs=1&hl=en-US&autohide=2&wmode=transparent&enablejsapi=1

3. Change Length

- To change the length of a drain.

Embedded media: https://www.youtube.com/embed/PP_gcpzpckM?version=3&rel=1&showsearch=0&showinfo=1&iv_load_policy=1&fs=1&hl=en-US&autohide=2&wmode=transparent&enablejsapi=1

4. Map Node To Drain

- To connect a drain from a node to the selected drain.

Embedded media: https://www.youtube.com/embed/T4xOiilbfqs?version=3&rel=1&showsearch=0&showinfo=1&iv_load_policy=1&fs=1&hl=en-US&autohide=2&wmode=transparent&enablejsapi=1

5. Show Long. Section

- To show the long cross-section of the selected pipe

Embedded media: https://www.youtube.com/embed/f6Z0jVx4WsU?version=3&rel=1&showsearch=0&showinfo=1&iv_load_policy=1&fs=1&hl=en-US&autohide=2&wmode=transparent&enablejsapi=1

6. Move Drain end points

- To relocate the endpoint of the drain that is connected to another drain.

Embedded media: https://www.youtube.com/embed/TqTyi1F2EJk?version=3&rel=1&showsearch=0&showinfo=1&iv_load_policy=1&fs=1&hl=en-US&autohide=2&wmode=transparent&enablejsapi=1

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