Common Network Errors and Fixes

This information shows common network errors experienced and possible solutions to correct them.

Error:

Link SS- # velocity less than minimum desired.

Solutions:

Increase the slope of the pipe/ditch.

Decrease the size of the pipe/ditch (if possible) (Smaller flow area means higher velocity).

Change the type of pipe/ditch (if possible) (Smoother pipes typically have higher velocities).

Error:

Link SS - # velocity greater than maximum desired.

Solutions:

Decrease the slope of the pipe/ditch.

Increase the size of the pipe/ditch (if possible) (Larger flow areas means lower velocity).

Change the type of pipe/ditch (if possible) (Rougher pipes typically have lower velocities).

Error:

Capacity for Inlet CB - # Exceeded Bypass Flow Unassigned.

Solutions:

Assign a downstream node to accept the bypass.

Use double or other multi-grate catch basin or drop inlet.

Add additional upstream catch basin(s) to ensure all runoff is captured within the system.

If none of the above are feasible/practical, ensure the bypass flow has a place to flow into another storm drain system or roadside ditch and the error can be ignored.

Error:

Computed Ponded Width for Inlet CB - # Exceeds Maximum.

Solutions:

Move closer to upstream catch basin.

Add additional catch basin upstream.

Error:

HGL Blowout upstream of Link SS - # minimum freeboard not achieved

Solutions:

For Storm Sewers:	Increase pipe size.
	Increase pipe slope.
For Ditches:	The top of node should be below the Hydraulic Grade Line (HGL). Confirm the HGL is below the soffit and ignore error.

Error:

Min/Max Depth Exceeded at Upstream/Downstream of Link SS- #.

Solutions:

For Storm Sewers:	Check held elevations and slopes in the *Link Configurations Conditions* dialog.
For Ditches:	Confirm node/link elevations are correct and ignore error.

Error:

Profile Warning for Link SS - #:
–>Minimum Slope used for Positive Drainage
–>Check Held Elevations and Slopes

Solutions:

Check held elevations and slopes in the *Link Configurations Conditions* dialog. Make changes as necessary.

Error:

Soffit elevation adjusted for ditches:

Solutions:

No correction required, normal adjustment required when ditch inverts are held at specific elevations.

Error:

Catch Basin Minimum Depth exceeded on most catch basins, depth gets progressively deeper from beginning of network to end.

Solutions:

Check Link preferences, turn off rounding of link slopes if on.