

# Stormwater Management

## Corrugated Steel Pipe Underground Stormwater Detention / Retention

Stormwater Management systems are designed and built to provide safe and efficient treatment and disposal of stormwater run-off.

Increased impervious surface area results in increased peak flows in stormdrains. Existing storm drains, especially in urban areas with little green space, are not designed to handle the additional flow. Severe flood damage can occur without an effective storm water management program in place utilizing corrugated steel pipe "CSP" detention or retention systems.

- CSP Detention systems are used for temporary storage of stormwater runoff in underground tanks. Stormwater is detained beyond the peak flow period and is then released at a designed rate. CSP storage tanks are the most cost effective and reliable solution for stormwater detention.
- CSP Retention systems are used when stormwater run-off has no or restricted outlet for disposal. Stormwater is collected and stored, then allowed to dissipate by infiltration into the ground through the use of fully perforated CSP. Benefits include enhancement of ground water resources, not overcharging the existing storm water system and filtration of stormwater water through underlying soils.



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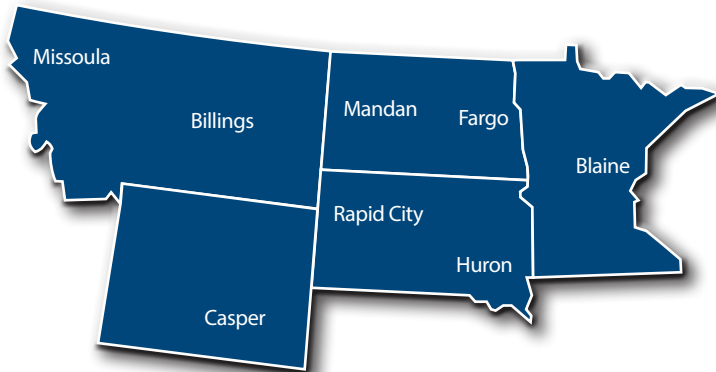


### Stormwater Treatment

CSP Detention and Retention underground systems are often coupled with upstream or downstream stormwater treatment systems that are required by permitting agencies to meet certain pollutant removal goals. Our engineers can assist in providing design of these systems to be packaged with the CSP detention/retention systems.

TrueNorth Steel's engineers are equipped to assist you with the design of your stormwater management systems.

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