

# ALPINE STORM PARK

➤ **DREAM  
DEVELOPMENT  
(2020 - PRESENT)**

➤ **CALGARY, AB**

*“The Storm Park is not just a high-quality stormwater management facility, it allows our community to take full advantage of a large beautiful natural area, rich in biodiversity and filled with interesting places for people to spend time.”*

**Tara Steell,  
General Manager,  
DREAM**

## PROJECT CONTEXT

Dream Development sought an innovative, creative stormwater management facility for its new urban development. Alpine Park development is situated in a beautiful, natural wetland ecosystem. Dream sought to preserve the existing wetlands and ravine systems and incorporate the ecosystem into the community design. The goal was simultaneously protecting native biodiversity and natural habitat while providing inner community amenity space.

A potential approach to preserving this space would be incorporating the natural ecosystem into stormwater infrastructure design, which inherently requires ponds and water storage systems.

## MAGNA'S SOLUTION

With this in mind, Dream Development was looking for a more innovative stormwater solution. The final design created by MAGNA was called a “Storm Park.”

A Storm Park consists of specialized system components, including a sediment clarifier forebay, a pond storage body, treatment wetlands, and a biofilter. The treatment wetlands and biofilters consist of layered media and surface plants that host microbes which clean the water. In this way, the treatment is both naturalized and passive. As a unit, these system components successfully clean stormwater, mitigate stormwater surges, and improve community life.

### **Storm Parks provide multiple community services, including:**

- Improved water treatment
- Biodiversity and habitat preservation
- Improved flood protection
- Community cultural ecosystem services

## COMMUNITY OUTCOME

The outcome is a beautifully designed and highly functional stormwater treatment system. Dream Development prides itself on pushing the boundaries and producing transformative, purpose-driven projects. In this case, Dream was able to utilize the necessary community-protective infrastructure to create a community-icon space. This supported their mission of developing sustainable, innovative, creative, and amenity-filled communities.

