

# Patricia T. Russell Park and Stormwater Improvement Project

CITY OF KEENE, NEW HAMPSHIRE



## PRE-CONSTRUCTION CHALLENGES

Preconstruction conditions in the park area included many deficiencies which included an undersized stormwater collection system along Carpenter Street that resulted in frequent flooding of portions of the park, and direct discharge of untreated water into Beaver Brook. Also, the local neighborhood and city desired ADA compliance where applicable; a signature playground; improved landscaping; expanded passive and active recreation activities and amenities; improved circulation and access; and a quality athletic field.



Previous field conditions and maintenance were problematic; creating some safety issues; and insufficient lighting was a primary concern of park users.



An undersized stormwater collection system along Carpenter Street resulted in frequent flooding of portions of the park and direct discharge of untreated water directly into Beaver Brook.

## UNIQUE ASPECTS & INNOVATIONS

Many components of this project required consideration of unique or innovative design applications to meet project goals of nature-based, sustainable and resilient solutions. These focused on improving:

- Stormwater management
- Water quality
- Bank stabilization of Beaver Brook
- Field quality
- Passive and active recreation opportunities
- ADA accessibility
- Park circulation/access/parking



A replaced properly sized pipe diverted stormwater from Carpenter Street to this new storage basin/wetland system, which also serves to treat the water prior to discharging to Beaver Brook.



New revetment bank stabilization was incorporated along a portion of Beaver Brook.



One of many rain gardens which were incorporated into the design to collect and treat runoff water from Carpenter Street.

## PROJECT SUCCESS/ CLIENT SATISFACTION



Post-construction aerial showing completed field; new stormwater basin/wetland; new bank stabilization along Beaver Brook; Solar lighting; improved access, circulation and parking.

As noted in the client's endorsement letter,

"We compliment SLR for their professionalism and dedication to this project; their focus on universal ADA compliance; their excellent public outreach capabilities and visioning; and their application of unique and innovative engineering solutions. The City is extremely proud of this important project which will increase functional and safe usage of the facility and be enjoyed by residents for many years."