

PROJECT PROFILE



ANY SIZE.
ANY SHAPE.
ANY HEIGHT OR DEPTH.

LOCATION: SAINT ALBANS, VT | USA

PRECASTER: CAMP PRECAST

HOUGHTON PARK COMBINED SEWER OVERFLOW STORAGE



THE SITUATION:

After experiencing historic flooding, the City of Saint Albans constructed a 500,000 gallon precast box culvert storage system to contain combined stormwater and sewage during precipitation and snow melt events. After an event, the overflow will be pumped into the sewer system for regular treatment. Due to concerns for both water infiltration and exfiltration, a full watertight solution was needed to meet the demands of the storage system.

THE SOLUTION:

To protect against water infiltration the box culverts outside joints were sealed with CS-235 Rapid Expansion Waterstop Sealant and CS-212 Exterior Joint Wrap. For the interior joints CS-102 Butyl Rubber Sealant was used along with sealing all interior joints, post assembly, with CS-1500 Rapid Cure Elastomeric Sealant paired with CS-80 primer provided protection against water exfiltration. Both CS-102 and CS-235 were attached in a continuous application to the structure using CS-1550 Instant Grab Adhesive-Sealant.

APPLICATIONS:

BOX CULVERT
STORMWATER CONTAINMENT

APPLICABLE INDUSTRY STANDARDS:

ASTM C990
ASTM C920

PRODUCTS USED:

CS-102
BUTYL RUBBER SEALANT

CS-235
RAPID EXPANSION
WATERSTOP SEALANT

CS-1550
INSTANT GRAB
ADHESIVE-SEALANT

CS-212
POLYOLEFIN BACK
EXTERIOR JOINT WRAP

CS-1500
RAPID CURE ELASTOMERIC
SEALANT

CS-80
CONCRETE PRIMER FOR
ELASTOMERIC SEALANTS