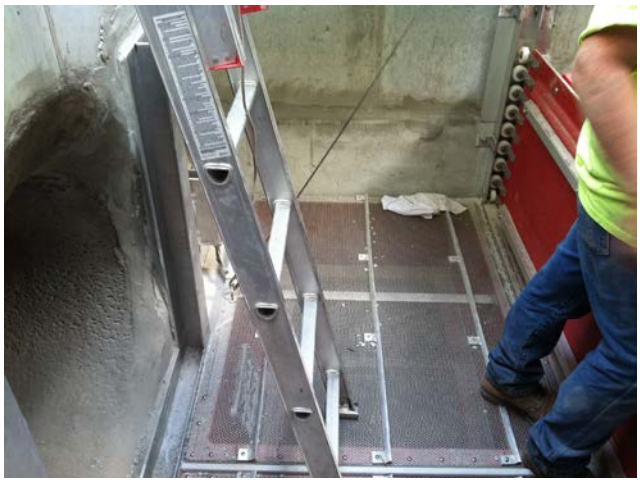
## Completed Projects – 2012

## 5th Ave & Rossiter St NSBB Installation

- The stormwater pipe that discharges into Lake Franklin at the corner of 5th Ave & Rossiter St receives runoff from a 110 acre drainage basin.
- The stormwater runoff entered the lake untreated.
- Lake County School Board provided an easement access into the site for installation and maintenance.
- A Nutrient Separating Baffle Box with the new "Skimboss" up-flow filter system was installed at the discharge point of the pipeline.
- The box is 12 ft wide, 20 ft long and 14 ft tall.
- The site was graded and an access road was constructed.
- The project was partially funded by the Lake County Water Authority.
- Water quality sampling will be done by the Mount Dora High School Environmental Sciences Department to determine the effectiveness of the system.

Base section of NSBB installed with 2 inches of room to spare



"Skimboss" up-flow filter

Completed site with access road

**Grandview St & Johns Ave NSBB Installation:**

- The storm pipe that discharges into Lake Dora at the northwest corner of the Chautauqua development receives runoff from a 105 acre drainage basin.
- The stormwater runoff discharges into the lake untreated.
- A Nutrient Separating Baffle Box with the new "Skimboss" up-flow filter system was installed at the discharge point of the pipeline.
- Electrical lines had to be router underground, a 10 inch diameter water main pipeline had to be routed around the box and the stormwater pipes had to be re-routed over the new water pipe.
- A pre-existing stormwater inlet was removed and the road re-configured to direct the stormwater runoff into the new inlet structure.

Project site before construction


Top section with riser hatches


NSBB base section installed with 2 inches to spare


Project site after completion

**Relief Drain at 8th Ave & Tremain:**

- The area between 8th Ave and 9th Ave on Tremain St often flooded during rain events.
- A small inlet structure and pipe were installed under Tremain St. and connected to the existing stormwater line on the west side of the road.
- The curb was removed to allow water to flow into the new inlet from the road and sidewalk sides.

Pipeline under Tremain St.

Inlet on east side of Tremain St.

**Lincoln Ave & Middle School Retention Pond Dredging:**

- The retention pond across from the Mt Dora Middle School had become filled with sediment and vegetation.
- Drainage from the northeast area of the City was backed up because of the blockage of the pipes into the pond.
- A 60 ft boom loader was brought in to remove approximately 1800 cu yd of materials along the north side of the pond.
- This created a sump area where sediment can settle out of the incoming water without impairing the flow out of the pond.
- The stormwater pipes leading into the pond were cleared of accumulated sand and debris to allow better flow.

Inflow & outflow structures after dredging

Pond banks graded for easy maintenance

Inflow pipe blocked by sand & debris