STORMWATER POLLUTION PREVENTION PLANS (SWPPPs)
Erosion & Sediment Control

Peak Flow Attenuation

Green Infrastructure Considerations

Water Quality

SWPPP Review Components
Stormwater Pollution Prevention Plan (SWPPP) Reviews

Town of Big Flats

- Higher Hope Church
- Dandi Mini-Mart on C.R. #64
- Williams Honda SWPPP Modification
  - Elmira Savings Bank
- Kent Brown Detailing Plan Revision
  - Tri-County Conference Center
- Consumer Square Redevelopment Project
- Hickory View Apartments Back-up Drainage Plan
  - Sonwil Modified Plan
- Mosque Project on Hickory Grove Road
Stormwater Pollution Prevention Plan (SWPPP) Reviews

City of Elmira
- Hilliard Parking Lot

Elmira-Corning Regional Airport
- Atlantic Aviation

Town of Horseheads
- Biltmore Crossing (Revised Grading Plan)
- Breesport Baptist Church
Stormwater Pollution Prevention Plan (SWPPP) Reviews

Village of Horseheads
- Parmentor Tire Storage Area
- Proposed Hotel (NYS Route 14)

Town of Southport
- Notre Dame High School Athletic Field Project
- Hurley Parking Lot Project
Stormwater Pollution Prevention Plan (SWPPP) Reviews

**Town of Veteran**
- Bomack Construction (NYS Route 14)

**Town of Catlin**
- Provided preliminary input re: stormwater management for two proposed Dollar General stores
Notre Dame High School
Sonwil Modified Plan
for
Stormwater Basin
STORMWATER DRAINAGE DESIGN & STUDIES
Stormwater Drainage Design and Studies

Town of Big Flats

- Hydraulic Evaluation of Bridges over Sing Sing Road within airport property

Chemung County Department of Public Works

- Hydraulics/Hydrology Study for Culvert/Bridge Replacement on Pine Valley Road
  - Drainage Design for DPW Fueling Station
Stormwater Drainage Design and Studies

City of Elmira

- Hydraulic/Hydrologic Evaluation re: sizing of storm sewer along upper Hoffman Street
Stormwater Drainage Design and Studies

Town of Elmira

▪ Hydraulic Study for Fern Dell Drive Culvert Replacement
▪ Hydraulic/Hydrology Study for Pinewood Circle Storm Sewer Replacement
▪ Upper Larchmont Detention Basin Spillway Evaluation Report (underway)
Stormwater Drainage Design and Studies

Town of Horseheads

- Highland Hills Stormwater Detention Basin As-Built Review

- Hydraulic/Hydrology Study re: Driveway Culvert off Bannister Road
Stormwater Drainage Design and Studies

Town of Veteran

- Hydraulic/Hydrology Study for Parrott Road
- Hydraulic/Hydrology Study re: Culvert Sizing on East Sullivanville Road
- Pine Valley overbank stream flow diversion berm (underway)
Stormwater Drainage Design and Studies

Village of Horseheads

- SWPPP for Leaf/Grass Composting Site (on hold)

Town of Southport

- Hydraulic/Hydrology study and design for proposed pedestrian bridge at Chappell Park
- Trescott Drive Drainage Study & Improvement Design
Chapel Park Pedestrian Bridge
Bridge/Trail Profile

- Proposed Walking Trail/Ramp: Longitudinal slope of trail shall not exceed 8.33%.
- Proposed Bridge Deck:
  - Top of Deck Elevation: 895.23
  - Low Chord Elevation: 894.30
- Existing Paved Channel
- Blend to Existing Grade:
  - Trail to continue to Elmore Street at Existing Grade
- Refer to Structural Plans for Bridge Foundation Details.
Hydraulic Profile along Channel
ANNUAL INSPECTION & REPORTING FOR CHEMUNG COUNTY DAMS
Plunge Pool for Marsh Creek Flood Control Reservoir
Marsh Creek Flood Control Reservoir
EMERGENCY WATERSHED PROTECTION (EWP) PROJECTS
Seeley Creek Stream Bank Stabilization Project
Exposed Gas Main
Historic Migration of Stream Bank

Distance from centerline of NYS Route 328 to top of western bank (feet)

Distance to gas main - 145 feet
River Road Reinforced Soil Slope Project
Seepage from the adjacent ditch is suspected of contributing moisture to the "Mottled Silt" layer.

The depth to the "Compact Silt with Gravel" layer ranges from 5 to 7 feet below the surface of River Road.

Chemung River
100-Year Flood Elev. - 783 +/-
10-Year Flood Elev. - 778 +/-
Dry Brook Road
Drainage, Stream Bank Stabilization &
Reinforced Soil Wall Project
The discharge from an existing 24-inch dia. culvert below Dry Brook Road, that is resulting in extensive erosion of slope and the associated weakening the integrity of that slope.
Existing Profile

- Existing Ditch
- Dry Brook Road
- Soil fill over native glacial till. Limits shown are approximate.
- Exg. Profile
- Seepage from the adjacent ditch is suspected of contributing moisture to the soil fill/glacial till interface.
- Dry Brook Stream Channel
Cross-Section of Reinforced Soil Wall

Reinforced Soil Wall system shall include the following components:
- SG200 Geogrid (from Strata)
- Welded-Wire Facing Forms (from Strata)

Refer to Details D-6, D-7A, D-7B, and D-8.

- Shoulder Width of 5 to 6 feet
- Exg. Ditch
- Dry Brook Road
- Limits of Reinforced Soil Fill
- NYS DOT Item 4 Gravel compacted in 9” (max.) lifts to a minimum density of 98% (per ASTM D-688)
- Subsurface Drainage System. Refer to Detail D-2
- Reinforced Soil Wall to be founded upon bench of native glacial till
- Depth Varies
- Exg. Profile
- Depth Varies

Subsurface Interceptor Drain. Refer to Detail D-1.
New Reinforced Soil Wall
New Driveway Culvert
Hydroseeding
Roadside Ditch
OTHER ENGINEERING WORK
Other Engineering Work

Chemung County

- WQIP Grant Application for Salt Storage and Stormwater Management Improvements

Town of Veteran

- Attend and Participate in Town of Veteran Drainage Committee
- Prepared preliminary cost estimates for Panther Lick Diversion Berm & Assisted in pursuing funding
Other Engineering Work

Town of Big Flats
- Sing Sing Creek Flood Elevation Analysis along Sing Sing Creek

Village of Horseheads
- NFWF Grant Application for three Stream Bank Stabilization Projects on Newtown Creek
- WQIP Grant Application for Stream Bank Stabilization Project to Protect Water Filter Plant
Other Engineering Work

Town of Catlin

- Provided preliminary input regarding drainage planning for two proposed Dollar Generals

City of Elmira

- Provided assistance regarding Solid Waste Grant Narrative
  - Permit Application to NYSDEC for Disposal of Tornado Debris
TRAINING/EDUCATION
November 2013 – Meeting with Jefferson County MS4s

- Upon request of Jefferson County Soil & Water, attended a meeting in Black River, NY with a group of new MS4s.
- Over 7 new MS4s attended and asked us questions re: the Chemung County Stormwater Coalition.
- Presented to the group the following.
  - Background re: development of the coalition
  - Funding for the coalition
  - Responsibilities of the Stormwater Team
May 2014 – Presentation to the Southern Tier/Finger Lakes Water & Wastewater Operators

- Upon request of the Southern Tier/Finger Lakes operators, provided a 1-hour presentation.
- The presentation focused upon;
  - NYSDEC’s Stormwater Program & Requirements
  - Stormwater Treatment Technologies
  - Pollutant removal efficiencies of various treatment technologies
- Answered questions from the floor.
May 2014 – Presentation to RAMS re: Levee Accreditation & Certification

- Prepared a presentation that involved accreditation and certification requirements for flood control levees.
- Other presenters included a real estate agent and an insurance agent.
- The intent of the combined presentations was to provide background on the pending flood insurance changes, how these changes would impact owners of homes within designated flood zones, and options to bring some areas out of these zones.
September 2014 – Annual Farm & Agricultural Tour

- Attended Soil & Water’s annual Farm & Ag Tour.
- The recently construction River Road Reinforced Soil Slope Project was a stop on the tour.
- Provided information to other attendees regarding the River Road Reinforced Soil Slope Project and answered questions.
WQIP GRANT APPLICATIONS
• Chemung Co. DPW Salt Storage & Water Quality Improvement Project - $101,250

• Stream Bank Stabilization Project to Protect the Village of Horseheads Water Filter Plant - $110,250
A CLOSING STORY
• The world record Brook Trout was caught in 1916 by Dr. J.W. Cook.
• The fish weighed 14.5 pounds and 31.5 inches in length.
• The fish was caught from the Nipigon River in western Ontario.
New World Record Brook Trout?
• In 2007, Tim Matheson of Manitoba, landed a large Brook Trout from Barbe Lake in Manitoba.
• This fish measured 29 inches in length with a girth of 21 inches.
• Mr. Matheson is a catch-and-release angler. After carefully measuring the fish, it was photographed and released.
• Based upon the fish’s dimensions, the provincial Angling Program Manager estimated the weight of the fish to be between 15 and 17 pounds.
• Mr. Matheson’s giant Brook Trout was estimated to be larger than the 1916 World Record fish.

• Because Mr. Matheson’s Brook Trout was not weighed, the IFGA does not officially recognize his fish as the new world record, although Manitoba officially recognizes it as the provincial record.

• Mr. Matheson feels that meeting the IFGA requirements for weighing the fish would have most likely resulted in its death.

• Mr. Matheson indicated that such an outcome was never a consideration in his mind.