

Allen Creek Stabilization Project

Town of Penfield

Overview

- Introduction
 - Objective
 - Location
 - Problems/Issues
- Design
 - Data Collection
 - Design Parameters
 - Proposed Design
- Regulatory Requirements
- Schedule
- Questions



Introduction

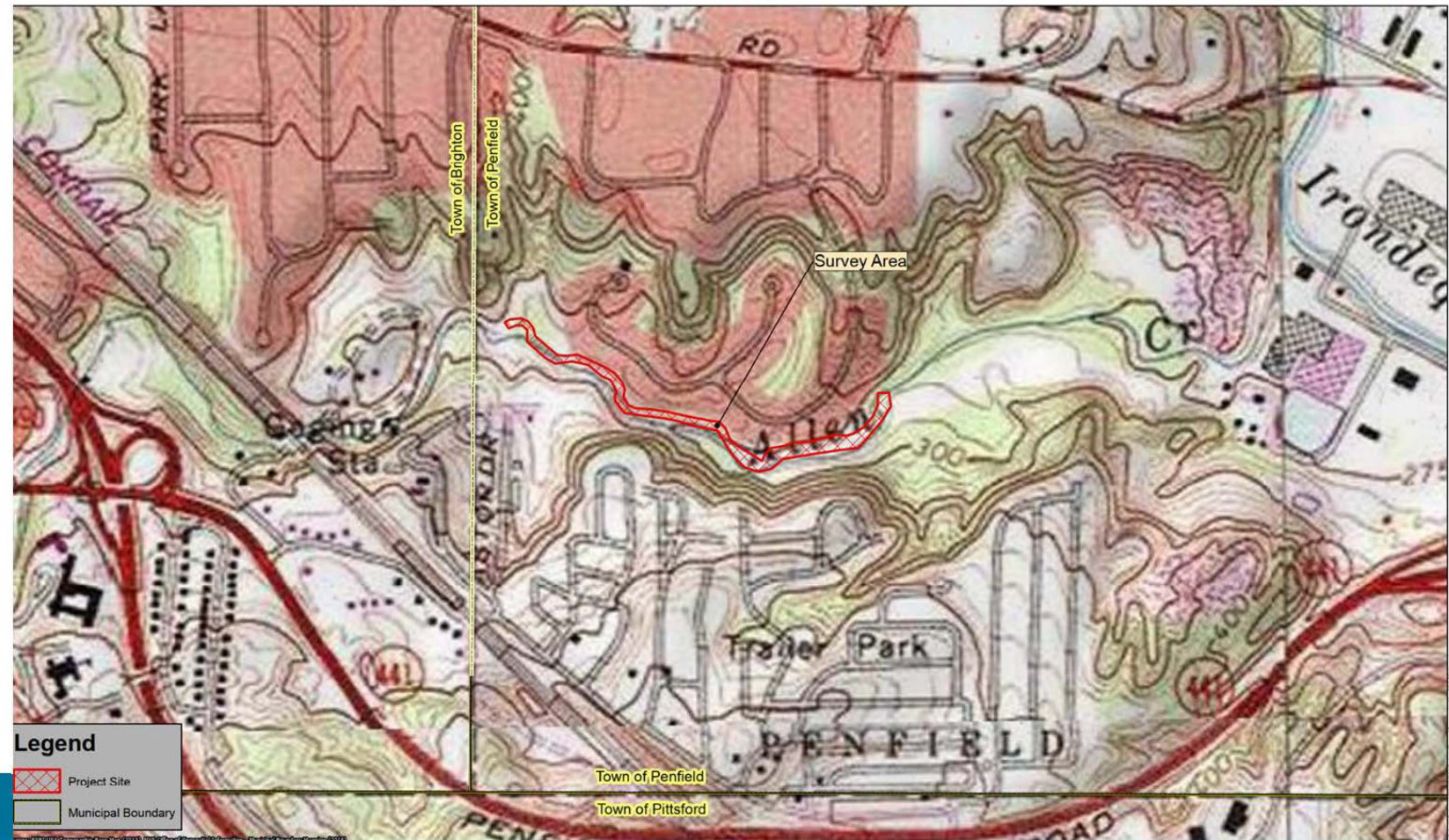
- Objective

- To create more stable condition in the stream corridor to stabilize eroding banks, reduce flood risk, reconnect the channel to the floodplain, and improve fish habitat



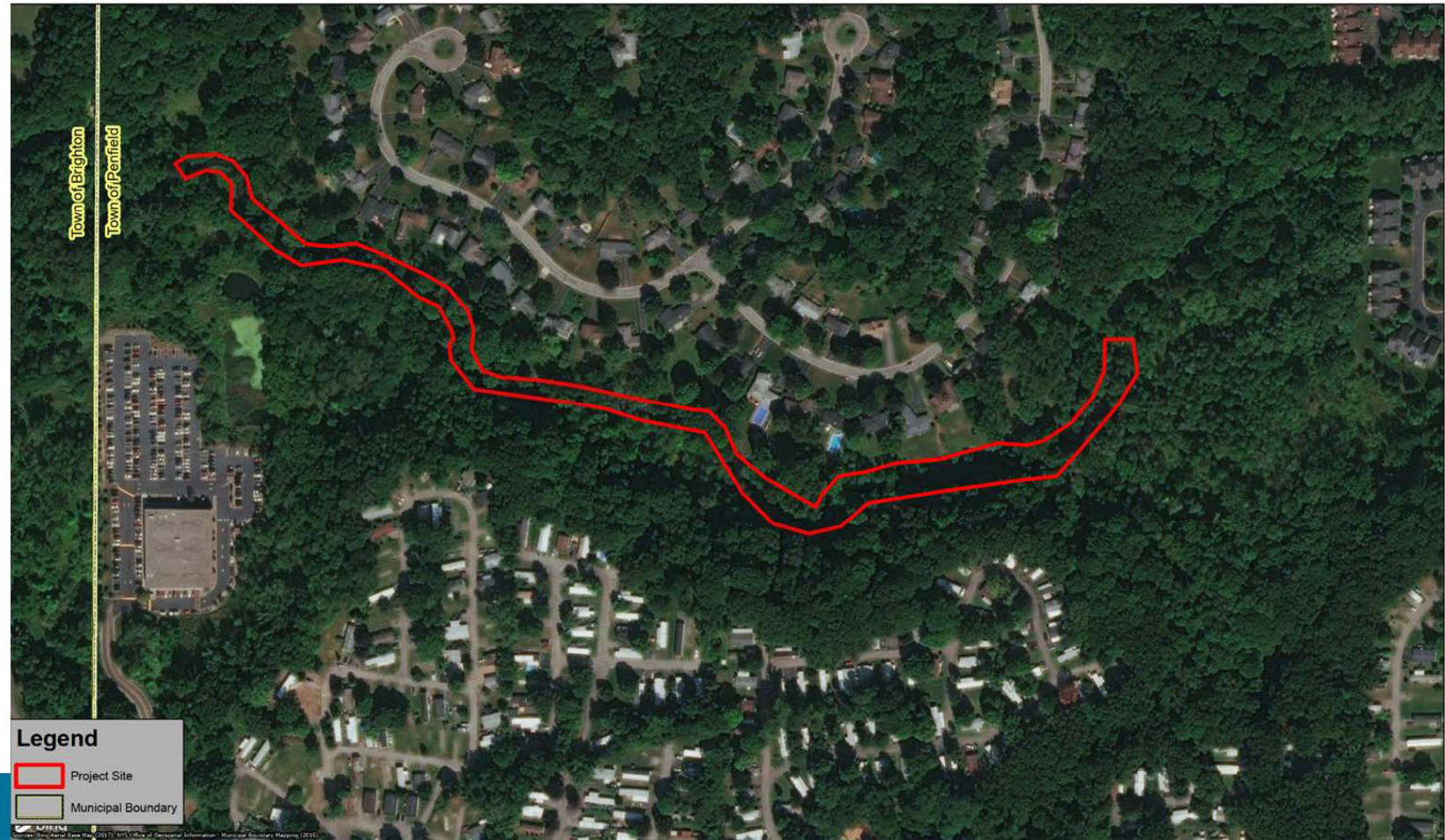
Introduction

- Location
 - 2700 linear feet of Allen Creek from the western Town line, along Shirewood Drive and Burrows Hill Drive



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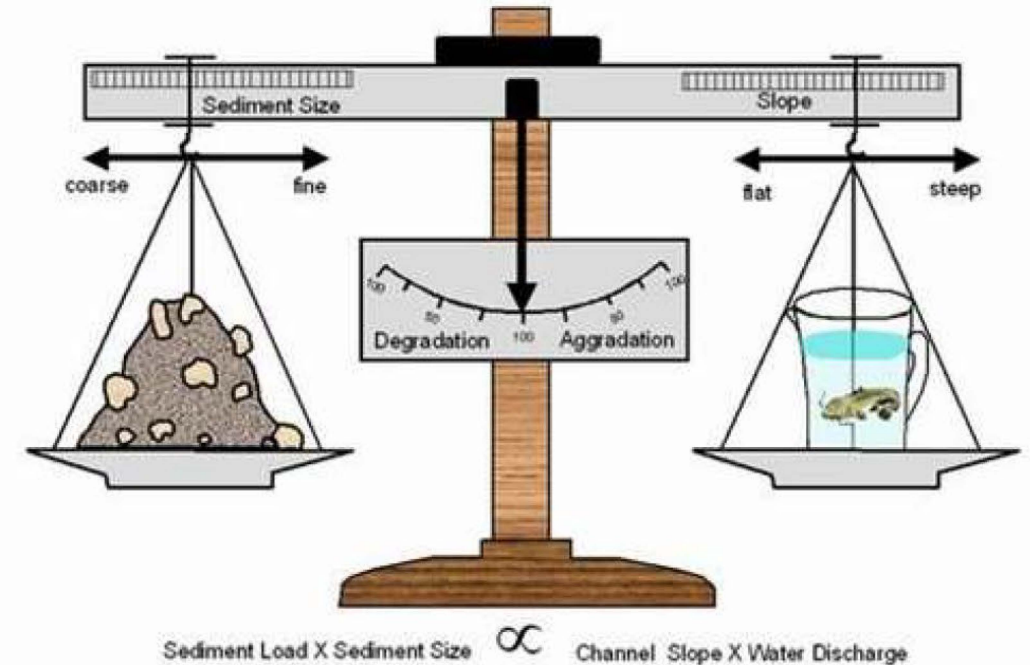
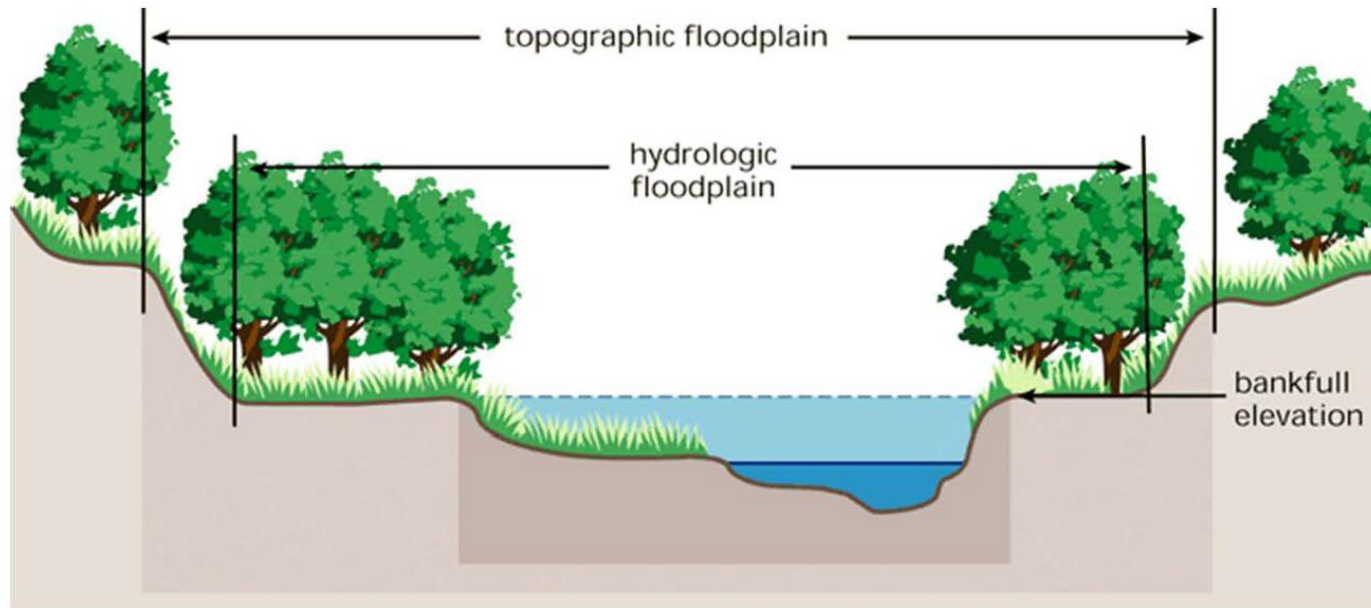
Introduction

- Problems/Issues
 - Type F4 stream/entrenched
 - Slope Failure
 - Sediment transport
 - Accessibility of the site



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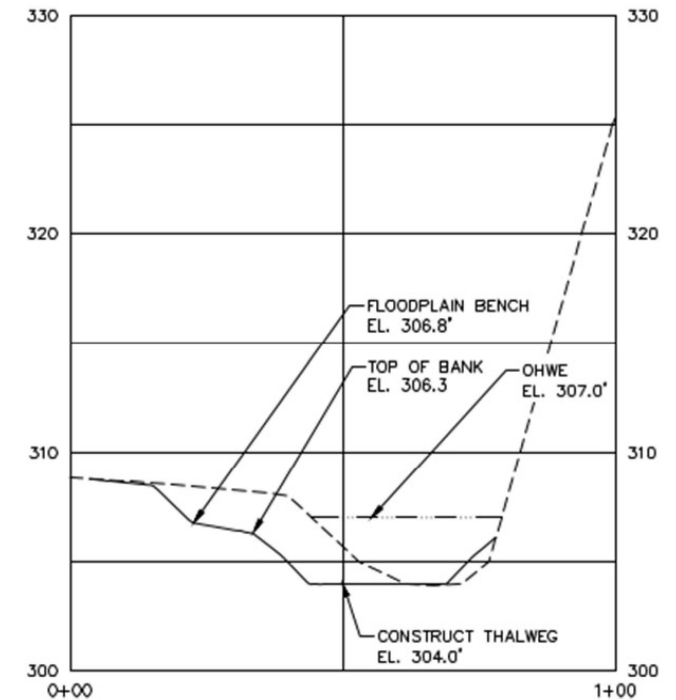
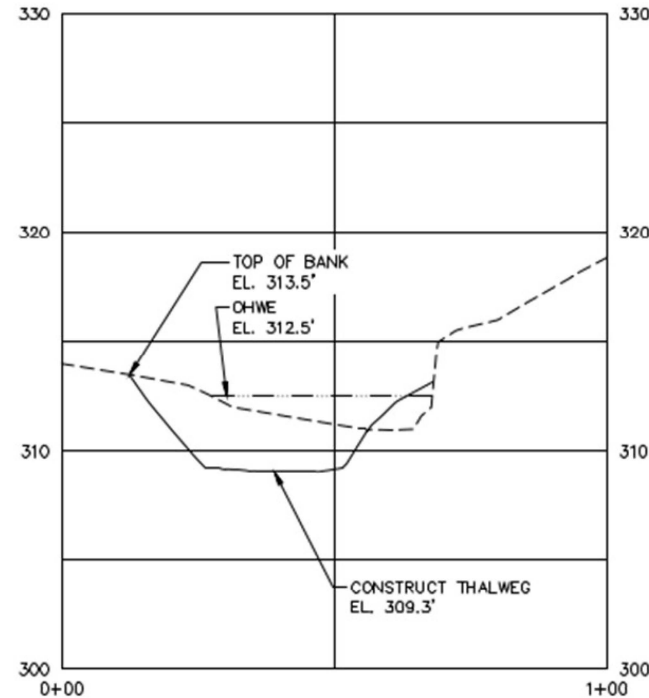
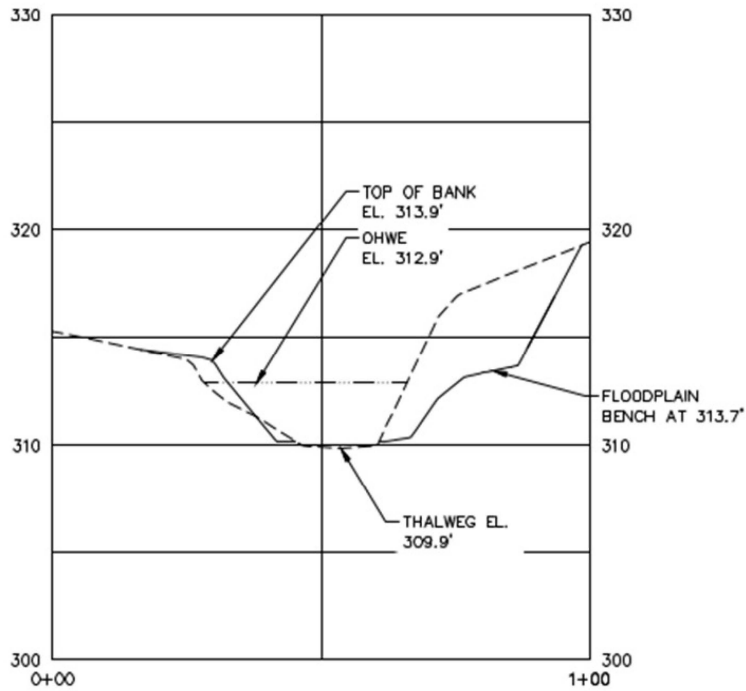
Design

- Data Collection
 - Geomorphic Survey
 - Long Profile
 - Pebble Counts
 - Cross Sections
 - Bar Samples
 - Stream Classification
 - Sediment Transport



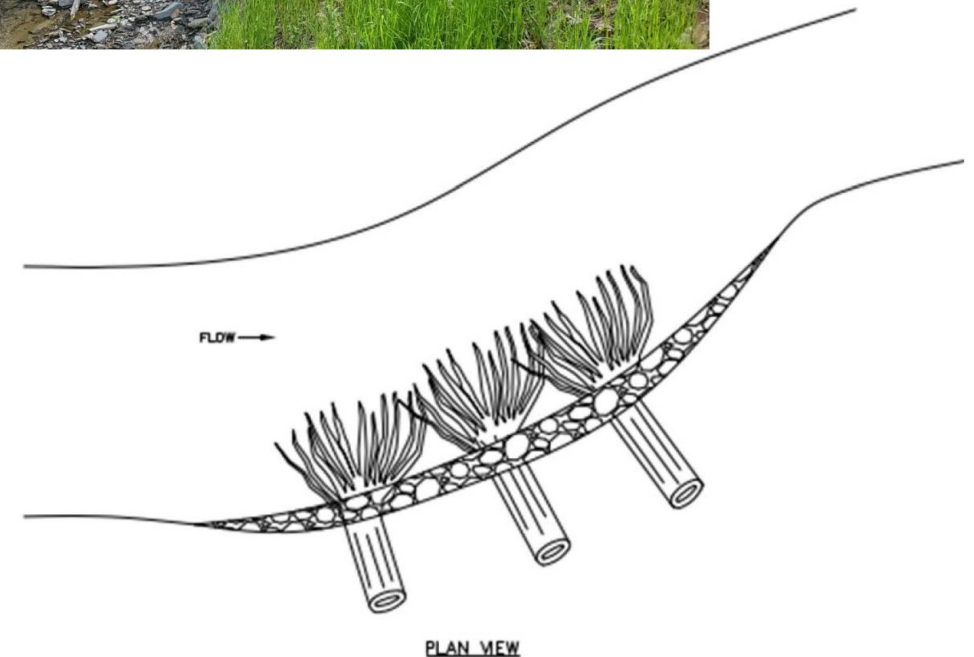
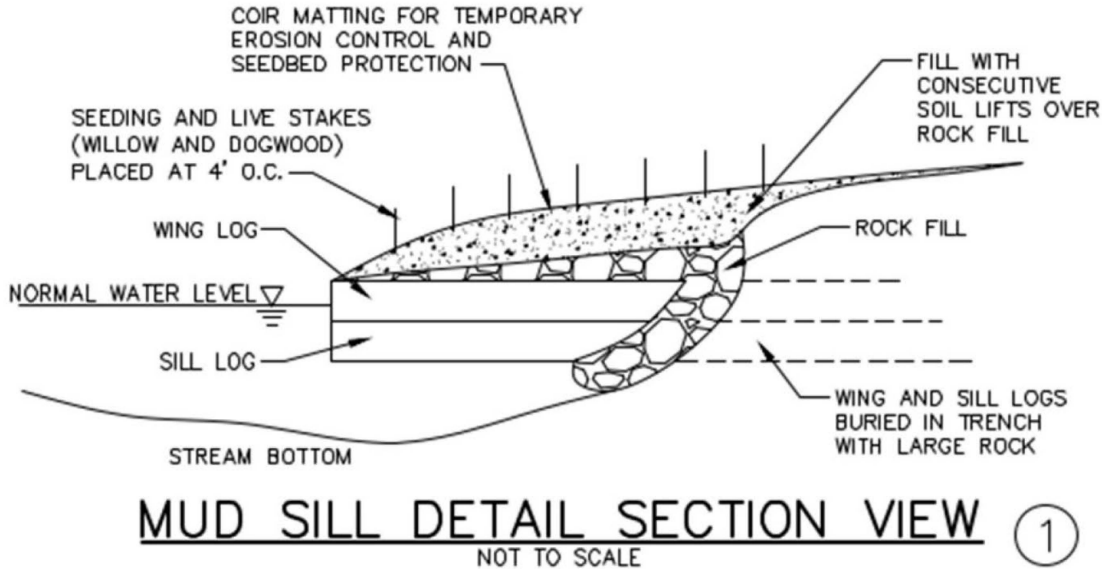
Design

- Design Parameters
 - Bankfull Discharge
 - Channel Dimensions
 - Planform – engage floodplain
 - In stream structures



Design

- Design Parameters
 - Bankfull Discharge
 - Channel Dimensions
 - Planform – engage floodplain
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NO ALTERATION PERMITTED
HEREON EXCEPT AS PROVIDED
UNDER SECTION 2500
SUBSECTION 2 OF THE NEW YORK
STATE EDUCATION LAW

Significant Construction
Changes Are Shown

By: _____ Date: _____
C/d: _____ Date: _____

REVISIONS

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TOWN OF PENFIELD
ALLEN CREEK RESTORATION
PROPOSED STREAM RESTORATION
PLAN 1 OF 3

TOWN OF PENFIELD
MONROE COUNTY, NEW YORK

Barton & Loguidice

Date
MARCH 2020

Scale
1" = 40'

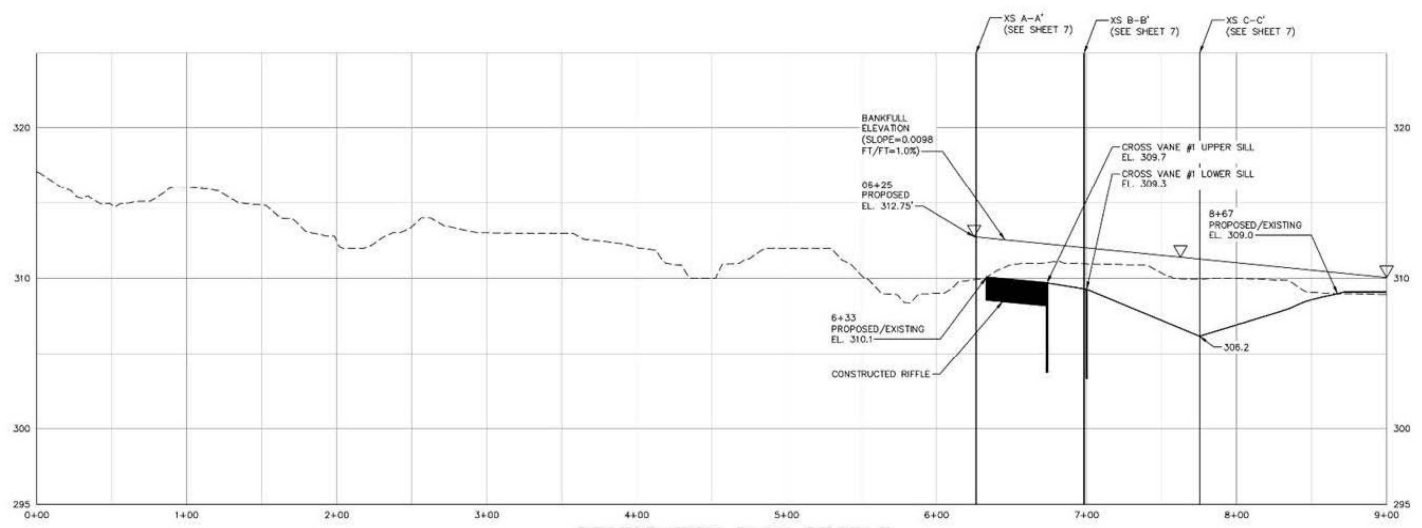
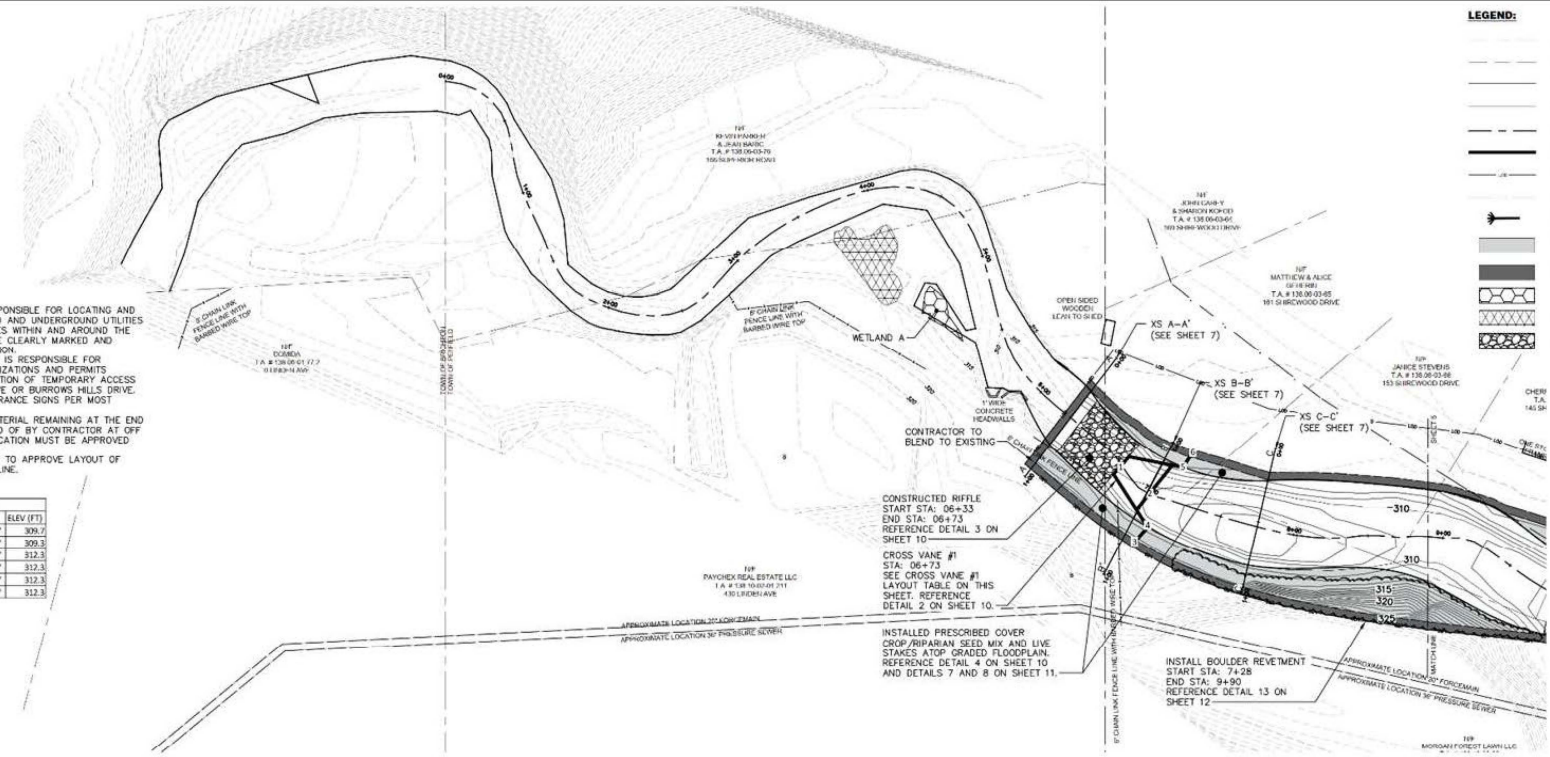
Sheet Number
4

File Number
1288.001.003

- LEGEND:**
- EXISTING MINOR CONTOURS
 - EXISTING MAJOR CONTOURS
 - PROPOSED MINOR CONTOURS
 - PROPOSED MAJOR CONTOURS
 - - - PROPOSED STREAM THALWEG
 - EDGE OF BANKFULL CHANNEL/OHWM
 - LIMIT OF DISTURBANCE
 - PROPERTY BOUNDARY
 - PROPOSED ROOT WAD (REFERENCE DETAIL 12 ON SHEET 11)
 - LIMITS OF FLOODPLAIN GRADING
 - GRADING TIE-IN AREA
 - WETLANDS
 - INVASIVE SPECIES
 - CONSTRUCTED RIFFLE

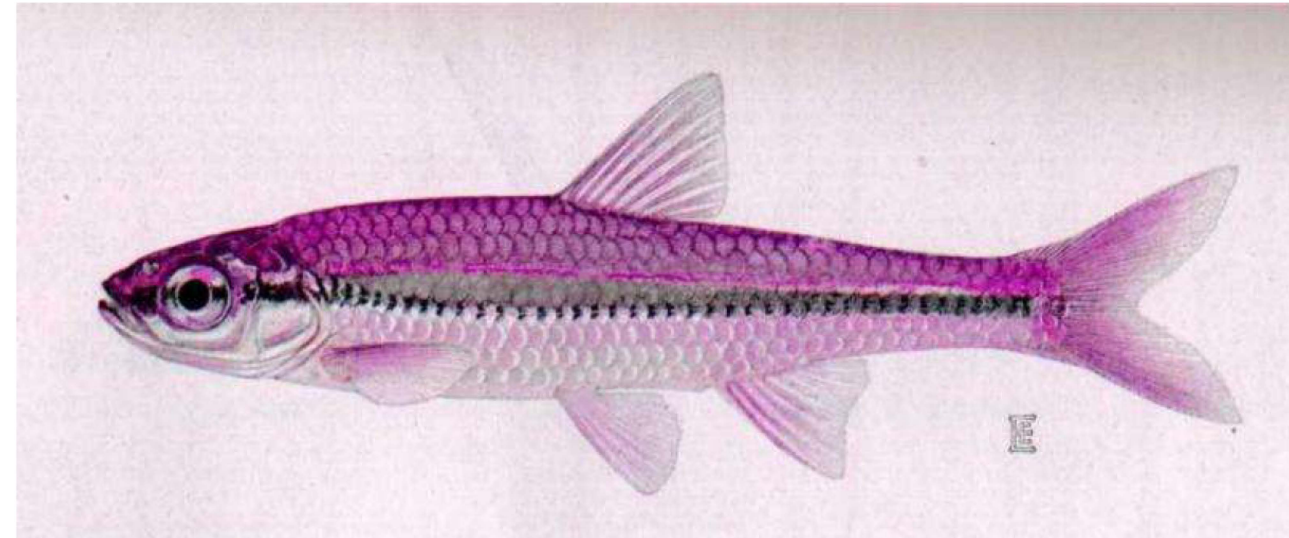
- GENERAL NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND CLEARLY MARKING OVERHEAD AND UNDERGROUND UTILITIES AND ASSOCIATED STRUCTURES WITHIN AND AROUND THE WORK AREA. THESE MUST BE CLEARLY MARKED AND AVOIDED DURING CONSTRUCTION.
 - IF APPLICABLE, CONTRACTOR IS RESPONSIBLE FOR SECURING REQUIRED AUTHORIZATIONS AND PERMITS ASSOCIATED WITH CONSTRUCTION OF TEMPORARY ACCESS ROAD FROM SHIREWOOD DRIVE OR BURROWS HILLS DRIVE. PROVIDE CONSTRUCTION ENTRANCE SIGNS PER MOST RECENT EDITION OF MUTCD.
 - ANY EXCESS EXCAVATED MATERIAL REMAINING AT THE END OF THE JOB TO BE DISPOSED OF BY CONTRACTOR AT OFF SITE LOCATION. OFF SITE LOCATION MUST BE APPROVED BY ENGINEER PRIOR TO USE.
 - ENGINEER MUST BE PRESENT TO APPROVE LAYOUT OF CONSTRUCTION STAKE-OUT LINE.

| CROSS VANE #1 LAYOUT | | | |
|----------------------|--------------|--------------|-----------|
| POINT | NORTHING | EASTING | ELEV (FT) |
| 1 | 1142581.9666 | 1433356.6736 | 309.7 |
| 2 | 1142564.5118 | 1433377.4347 | 309.3 |
| 3 | 1142531.5584 | 1433366.4737 | 312.3 |
| 4 | 1142541.6914 | 1433374.8566 | 312.3 |
| 5 | 1142581.7976 | 1433398.5667 | 312.3 |
| 6 | 1142591.7976 | 1433405.4161 | 312.3 |



Regulatory Requirements

- Screening
 - Protected Stream
 - Class B stream with B(T) Standards
 - Wetlands
 - 3 identified – Federal
 - Threatened & Endangered Species
 - Blackchin shiner – Critically Imperiled
 - Historical & Archeological Resources
 - Contaminated Materials
 - Screening samples obtained – no concern



Regulatory Requirements

- Permits
 - NYSDEC
 - Stream Disturbance – Under Article 15, Title 15
 - No in-stream work October 15-June 15
 - ACOE



Schedule

- Public Input – Today
- Finalize Contract Documents – April 2023
- Advertise – May 2023
- Construction – August-October 2023



Questions

Allen Creek Stabilization Project

Town of Penfield