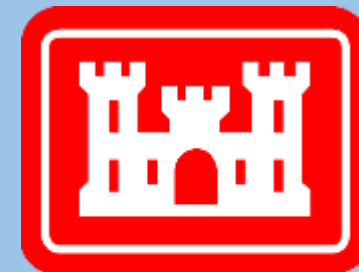


Community Advisory Group Meeting No. 43

Raymark Industries, Inc. Superfund Site Stratford, CT

Jim DiLorenzo, EPA
Ron Jennings, EPA
Jeff Saunders, EPA
Mike Looney, USACE
Rachel Leonardi, USACE
Alivia Coleman, Health Dept.
Molly Ryan, Town of Stratford

November 20, 2024



**US Army Corps
of Engineers®**

To download presentation slides visit:

www.Stratfordct.gov/Raymark

Hybrid Meeting Guidelines

Virtual Attendees:

- Everyone will be muted throughout the presentations - please stay muted to eliminate background noise.
- Hold questions until the end of each presentation.
 - Use the chat box.
 - Mute yourself after speaking

Everyone:

- Ask questions related to the presentation topic
- Please be respectful of time, so everyone has a chance to speak
- Be respectful and patient.
- Talk one at a time.
- **This meeting will be recorded.**

AGENDA

➤ INTRODUCTIONS and MEETING RULES

➤ OPERABLE UNITS 03, 05 AND 06 (RAYMARK WASTE AREAS)

➤ Broad Street Bridge Project Update

➤ OPERABLE UNIT 04 (CONSOLIDATION AND CAP)

➤ STORMWATER PUMP STATION

➤ AIR AND VIBRATION MONITORING UPDATES

➤ OPERABLE UNITS 07 AND 08 (WETLAND AREAS)

➤ OPERABLE UNIT 09 (STRATFORD LANDFILL)

➤ OVERALL PROJECT SCHEDULE

➤ Q&A

← ONGOING WORK

OU4 Capping Schedule Update

- Cap installation will now begin in March 2025.
- Delayed start date due to:
 1. Managing the wet / organic material from OU3 and Lockwood Ave (30% volume).
 2. Additional Raymark Waste found at OU4 (Southeast and Southwest corners).
 3. Importance of achieving the correct elevation for grading and drainage.
 4. Complex specifications needed for backfill (drainage and gradation).
 5. Liner seams require average daytime temperature of 40 degrees.
- Capping system will be in place by early summer 2025.
- Final restoration - loam, seed and pavement by fall 2025.

Raymark Operable Units

- OU1: Former facility
- OU2: Groundwater/Vapor Intrusion

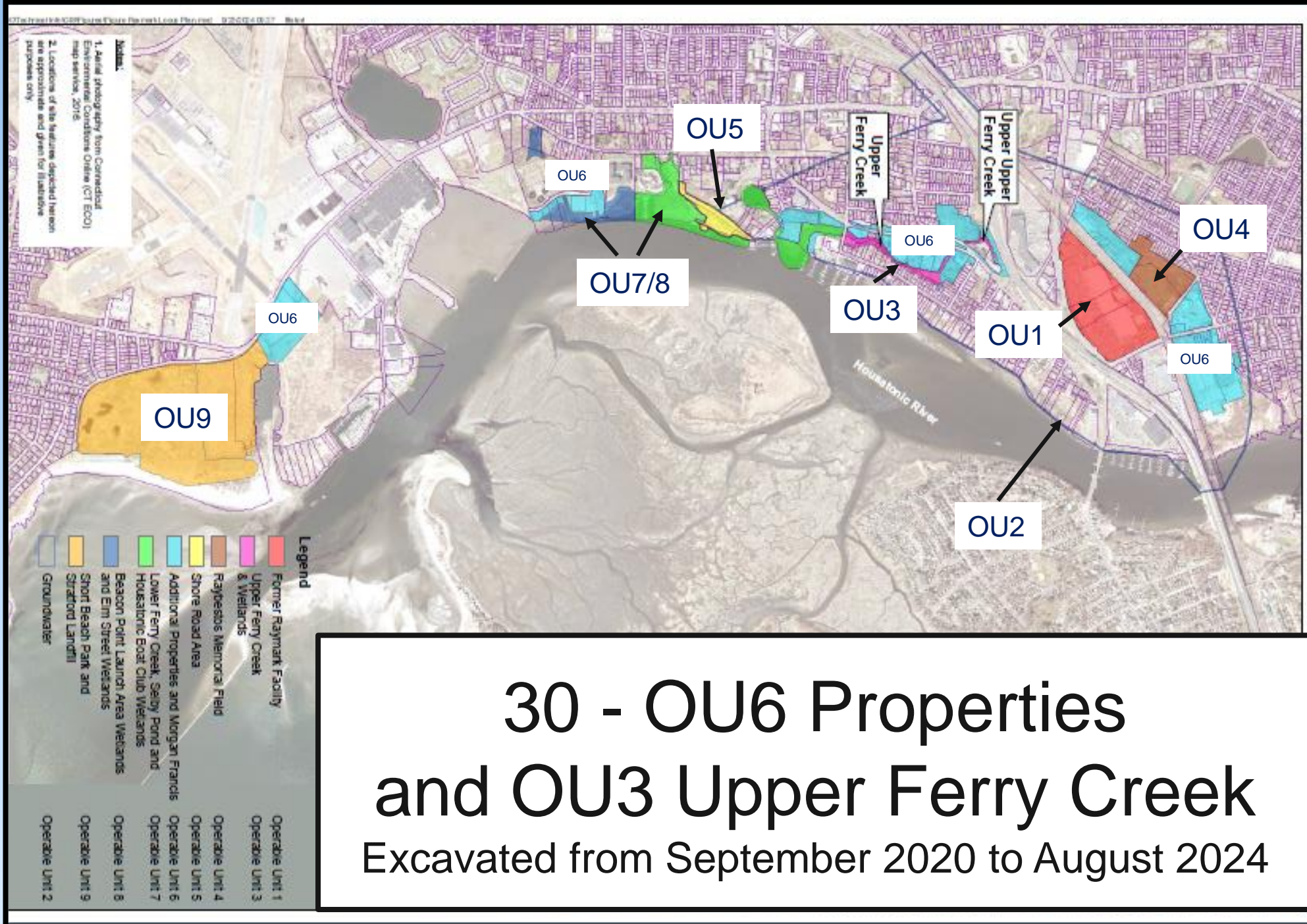
- OU3: Upper Ferry Creek
- OU4: Raybestos Memorial Ball Field
- OU5: Shore Road Boat Club
- OU6: Fill Properties & Morgan Francis

- OU7: Lower Ferry Creek
- OU8: Beacon Point Boat Launch
- OU9: Short Beach Park/Stratford Landfill

Cleanup complete
CTDEEP O&M

Remedy decision
(ROD)/Cleanup
underway

Field
investigations
ongoing



OPERABLE UNITS 03, 05 and 06 BRIEF UPDATES

30 OU6 Properties + OU3 Ferry Creek 110,038 cubic yards - 10,148 truck loads

First load. September 16, 2020.



Last load. August 13, 2024.



OU3/OU6 REMEDIATION TRACKING TABLE
(yellow are active businesses)
July 2024

Area	Location	Start Month	Volume (cy)	Trucks	Properties	Notes
Glyne Manufacturing	380 East Main	September 2020	52	4	1	Active business RW used to fill UST
Karate Studio	190 Ferry Boulevard	December 2020	87	10	1	Active business Not in 2016 ROD
Liquor Store	200 Ferry Boulevard	December 2020	482	64	1	Active business
DOT ROW along 190/200 Ferry Blvd	190/200 Ferry Boulevard ROW	December 2020	109	11	1	No ELUR Not in 2016 ROD
DOT Exit 33	Barnum Ave	January 2021	346	19	1	DOT removed No ELUR Not in 2016 ROD
Ashcroft (front), Dry Cleaner and Hair Salon	250, 304 and 340 East Main Street	February 2021	2,785	251	2	Active business Replace storm pipe Replace soil piles
Ashcroft Rear	250 East Main St	June 2021	9,281	745	1	Active business Not in 2016 ROD RCRA response area
302/350 East Main Street	Vacant lots	September 2021	127	9	2	Not in 2016 ROD
DOT ROW	Ferry Blvd and East Broadway	September 2021 and March 2022	478	53	1	No ELUR
171 Ferry Blvd	Convenience Store	October 2021	389	41	1	Active business Not in 2016 ROD
Wooster Park	Quail Street	November 2021	4,872	433	1	
Vacant Lots	Behind 326 FB	January 2022	9,622	905	2	
Hitchcock Marine	230 Ferry Blvd	June 2022	4,974	457	1	Active business Septic/grinder pump
Wiz Auto	250 Ferry Blvd	September 2022	7,897	687	1	Active business Replaced shed
Beacon Point AOC-1	Town/Condo	November 2022	9,095	727	2	Active business Replaced dock. 1-foot coastal res.
Beacon Point AOC-3	Town/Boat Yard	January 2023	2,389	191	2	RW between boulders
OU3	Upper Ferry Creek	March 2023	12,706	1,280	NA	1/3 mile
Open space/culvert	635 Ferry Blvd	April 2023	277	30	1	Not in 2016 ROD
Blasius Cars	280 Ferry Blvd	August 2023	5,996	546	1	Active business
Big Jim's	170 Ferry Blvd	October 2023	1,140	80	1	Active business Not in 2016 ROD
Blue Goose	326 Ferry Blvd	December 2023	347	35	1	Active business at the time. Closed in 2023.
Third Ave	Town ROW in front 35, 45 Third Ave	May 2024	70	10	2	No ELUR
Lockwood Ave	Phase 1	March 2024	8,934	863	1	Tidal wetland
Lockwood Ave	Phase 2	June 2024	10,443	1,087	1	Upland/Mitigation Phase 3 bulkhead
EPA HQ/Ski Shop	300 Ferry Blvd	July 2024	7,807	730	1	Front and rear
TOTAL RAYMARK WASTE REMOVED =			100,705	9,268	30	

PRINCIPAL HAZARDOUS CONSTITUENTS (PHC) TRACKING TABLE
February 2024

Area	Location	Start Month	Volume (cy)	Trucks	Properties
Ashcroft (front), Dry Cleaner and Hair Salon	250, 304 and 340 East Main Street	February 2021	795	60	3
Ashcroft Rear	250 East Main Street	June 2021	377	35	1
Wooster Park	Quail Street	November 2021	130	15	1
Vacant Lots	Behind 326 FB	January 2022	1,362	121	2
Hitchcock Marine	230 Ferry Blvd	June 2022	912	92	1
Wiz Auto	250 Ferry Blvd	September 2022	1,818	161	1
Beacon Point AOC-1	Town/Condo	November 2022	133	13	2
Beacon Point AOC-3	Town/Boat Yard	January 2023	326	52	2
OU3	Upper Ferry Creek	March 2023	710	70	NA
Blasius Cars	280 Ferry Blvd	Aug to Dec 2023	1,785	163	1
EPA HQ/Ski Shop	300 Ferry Blvd	Nov 2023 to ??	985	98	1
TOTAL PHC WASTE REMOVED =			9,333	880	15

	VOLUME	TRUCKS
CONSOLIDATED AT OU4	100,705	9,268
PHC (SHIPPED OFF-SITE)	9,333	880
TOTAL RAYMARK WASTE REMOVED	110,038	10,148

**OU3/OU6
Excavation
TOTALS**

OU3 Ferry Creek

Before

After

Restored



Before



Lockwood Ave
After



Restored



Coastal Resiliency at OU6 Beacon Point (Super Moon High Tide)

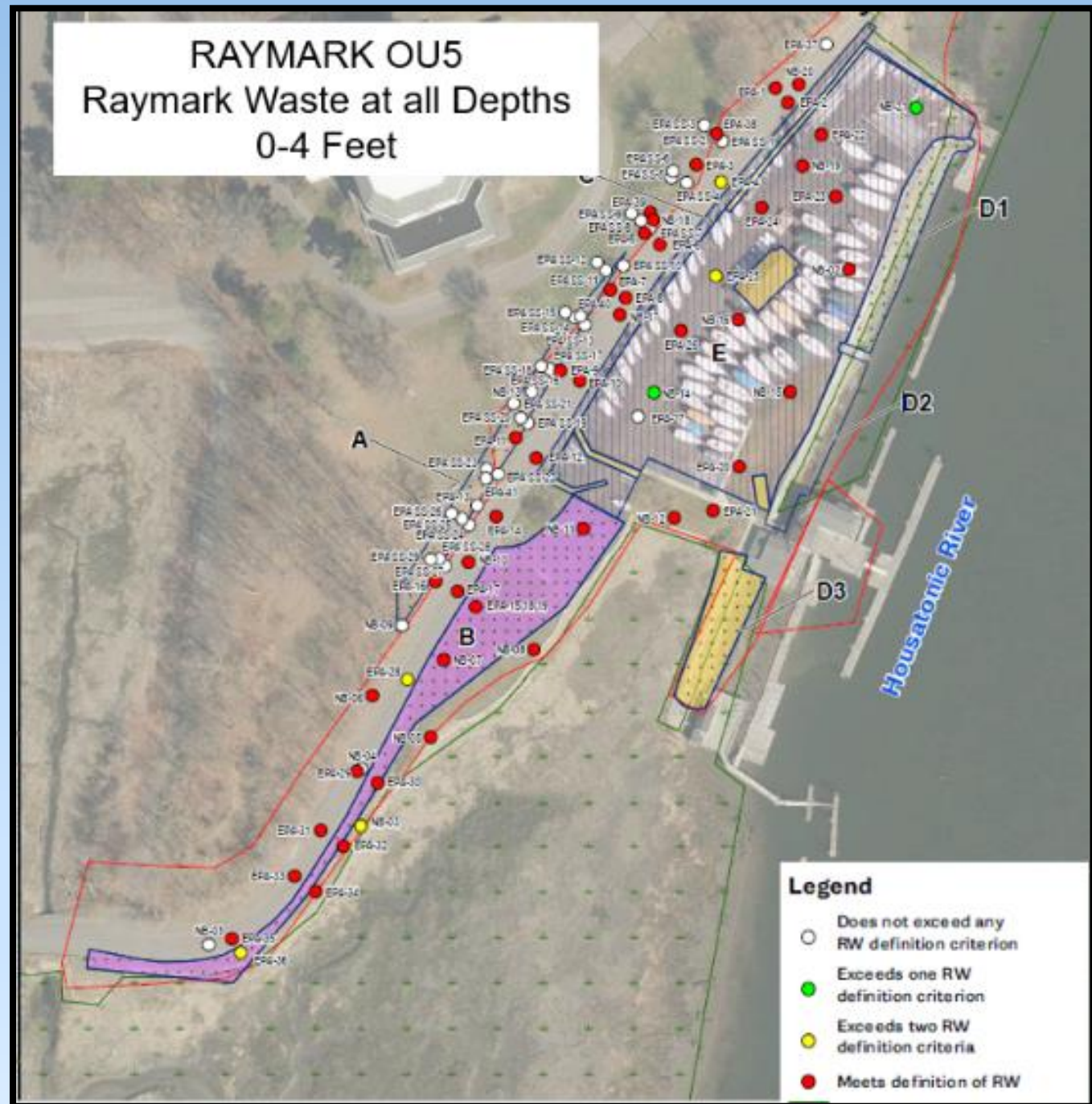


Remediated parking lot raised in elevation and did not flood.

Other parking lots submerged

OU5 Shore Road

- ROD March 28, 2024
- Excavation of Raymark Waste (+/- 9,500cy)
- Create 4-ft clean cover
- Incorporate about 1 to 2 feet Coastal Resiliency
- Remedial Design underway
- Pre-design sampling done
- Competing for funding
- Start cleanup in late 2025
- Include capacity in MF RAC



Broad Street Bridge Project Updates

Flood Mitigation at Ferry Blvd & Broad St Bridge over Ferry Creek

Town of Stratford Grant Application #2

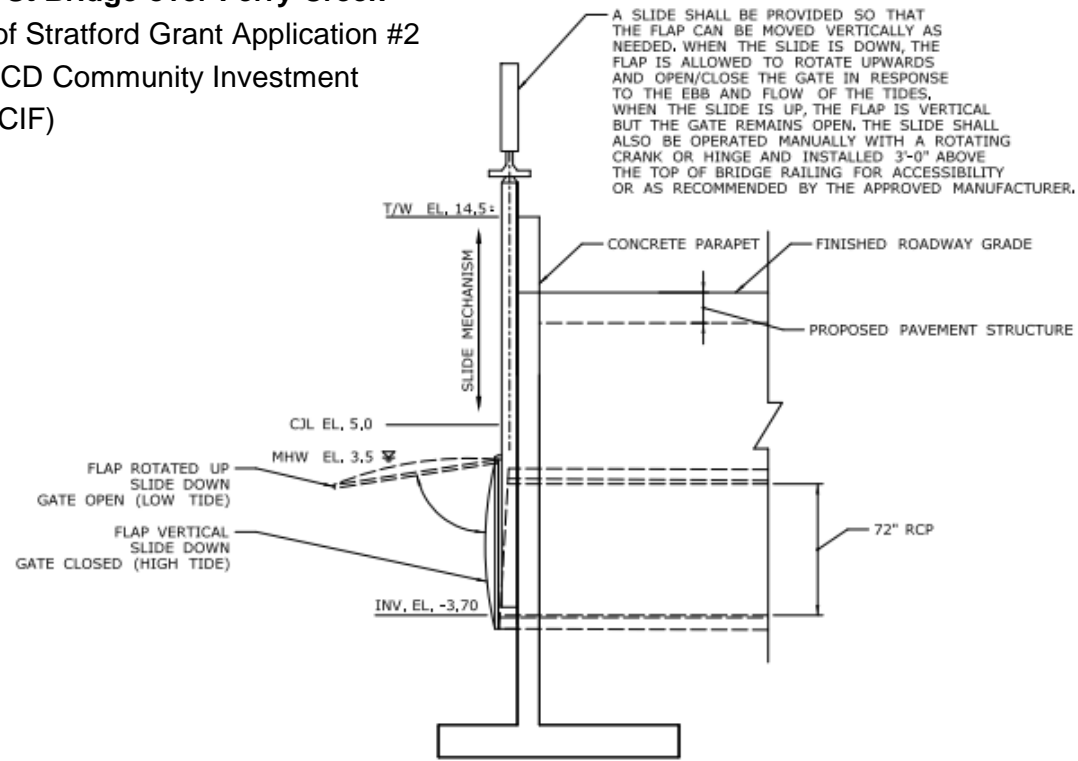
CT DECD Community Investment Fund (CIF)

Project Details *(pulled from June 2024 application, not yet updated to reflect the present)*

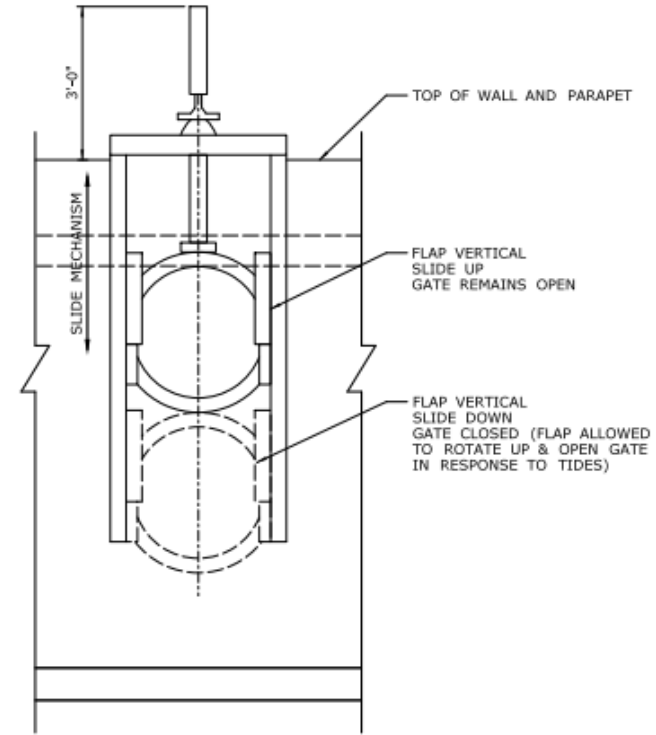
- This multi-faceted project has two main components: 1) raising the elevation of Ferry Boulevard at the intersection of Broad Street, and, 2) elevation of Broad Street and replacement of the bridge (Bridge Number 138-005), Broad Street over Ferry Creek. The bridge replacement will also include replacement of the current tidegates with manually operated sluice tidegates. These gates will be initially installed in the closed position, functioning as regular tidegates, but in the future may be left in the open position, allowing tide flow upstream of the bridge, which can be manually closed by the Town during predicted high tide/coastal storm events. Currently, the Town is at 60% design for the project and CT DEEP is reviewing the project for permitting purposes. CIF funding will support the costs of final design and construction.
 - Grant funding request: \$7,060,000 | Total project cost: estimated around \$7,500,000
- How does the proposed project transform the community and target population? In elevating the roadway and replacing the bridge, there are many impactful benefits to come:
 - Eliminates the 0.4-mile closure of Ferry Boulevard (Route 130) between Broad Street and East Broadway during coastal flood events.
 - Maintains emergency services access to those Ferry Boulevard businesses and properties located along the 0.4 mile stretch during coastal flood events.
 - Provides a direct/straight detour from Route 130 (Ferry Boulevard) to Route 113 (Main Street) during the 5 through 100-year coastal storm event and the 500-year coastal stillwater event.
 - Maintains the direct route for emergency services responding to the Housatonic Avenue neighborhood during coastal storm events from Main Street (Route 113).
 - Maintains access to and eliminates the need to shut down the adjacent stormwater pumping station during the 5- through 100-year coastal storm events.
 - Provides uninterrupted riverine flood control for Main Street (Route 113) up to the 500-year coastal stillwater event and the 5- through 100-year coastal storm events.
 - Provides a new and upgraded state traffic signal system at the Route 130/Broad Street intersection.
 - Replaces the Broad Street bridge and tidegate infrastructure, thus placing less of a burden and liability on the Town for increasing maintenance and potential failure of this infrastructure into the future.
- EPA work on Ferry Creek ties into this project due to shared project area. Seeking further comment from the public on benefits or disadvantages to this plan.

**Flood Mitigation at Ferry Blvd &
Broad St Bridge over Ferry Creek**

Town of Stratford Grant Application #2
CT DECD Community Investment
Fund (CIF)



SECTION
SCALE: N.T.S



ELEVATION
SCALE: N.T.S

**COMBINATION SLUICE /
FLAP TIDE GATE**

ABBREVIATIONS:

"T/W" DENOTES "TOP OF WALL"
"CJL" DENOTES "COASTAL JURISDICTION LINE (TOWN OF STRATFORD, CT)"
"INV" DENOTES "INVERT"
"EL." DENOTES "ELEVATION"
"MHW" DENOTES "MEAN HIGH WATER"

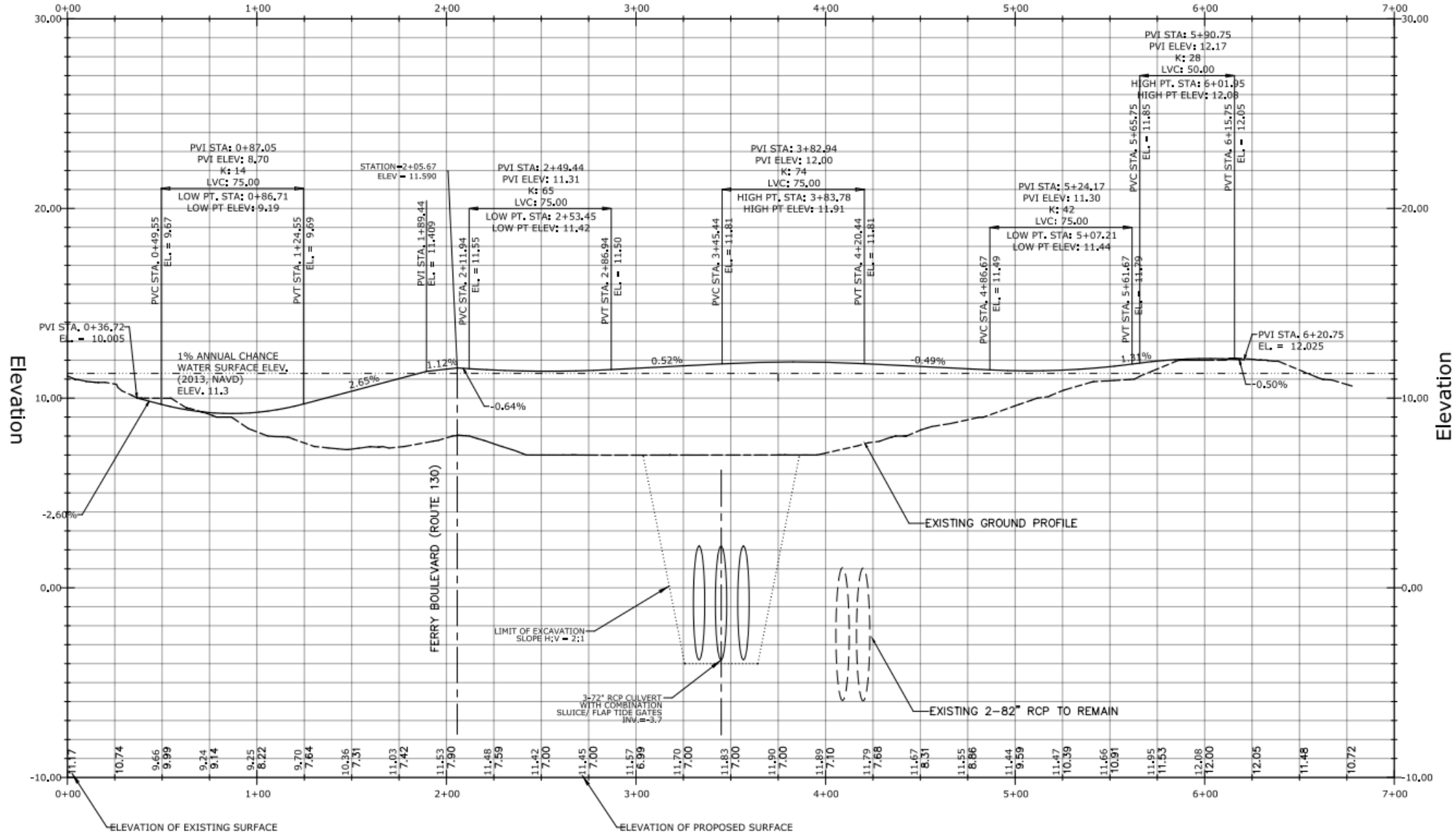
NOTES:

1. ELEVATION SHOWS 1 COMBINATION SLUICE / FLAP TIDE GATE IN THE OPEN POSITION (CLOSED POSITION SHOWN IN DASHED LINES), THE CONTRACTOR SHALL CONSTRUCT THREE GATES IN PARALLEL (SEE GRADING AND UTILITY PLAN).
2. VERTICAL (ELEVATION) DATA CORRESPONDS WITH THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

Flood Mitigation at Ferry Blvd & Broad St Bridge over Ferry Creek

Town of Stratford Grant Application #2

CT DECD Community Investment Fund (CIF)

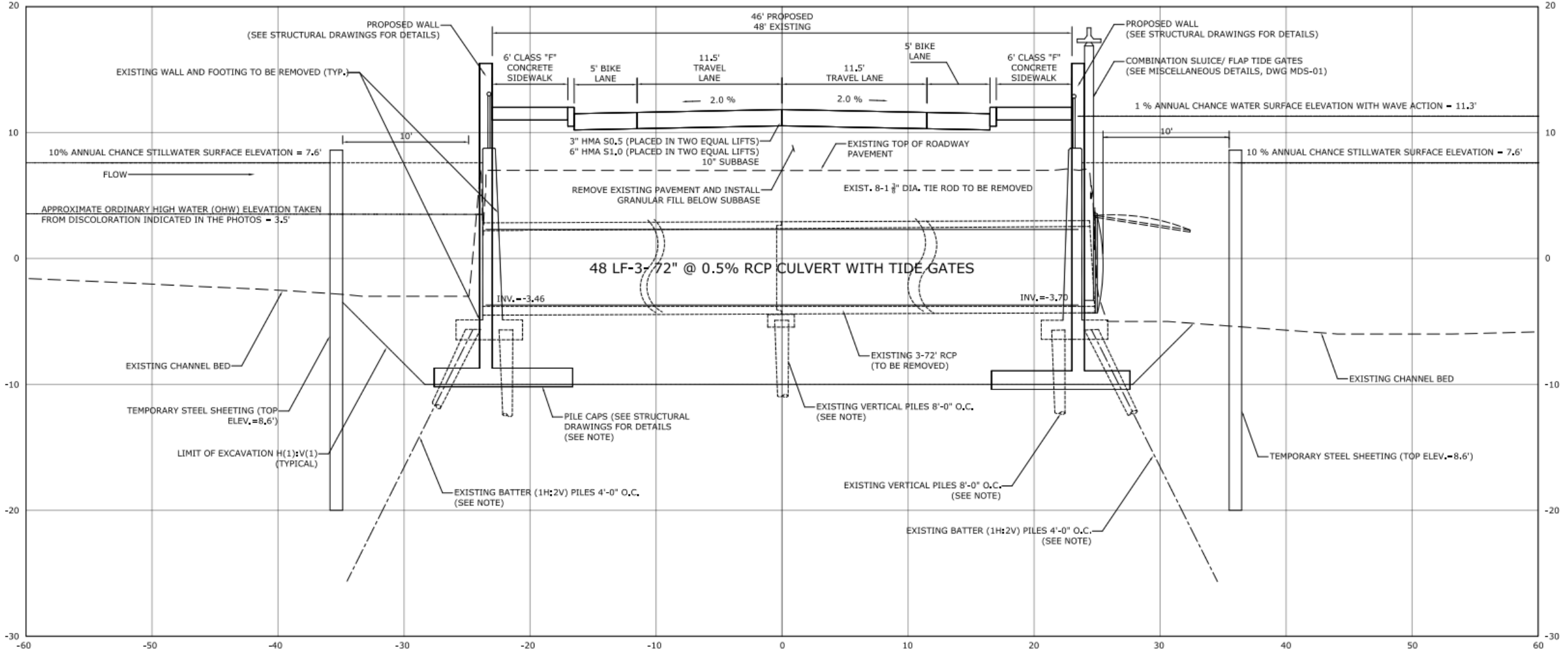


BROAD STREET PROFILE

SCALE H: 1" = 30'
V: 1" = 3'

Flood Mitigation at Ferry Blvd & Broad St Bridge over Ferry Creek

Town of Stratford Grant Application #2
CT DECD Community Investment Fund (CIF)



OU4 Updates

OU4 Consolidation Area Work Completed or Ongoing Since September

- Raymark waste excavation at all 30 OU6 properties and Ferry Creek (OU3) is complete, totaling 101,000 CY of material that has been transported and secured at the OU4 consolidation area
- Final grading for cap preparation is near complete
- In situ stabilization of soft organic soils is complete
- Construction of the new stormwater detention basin is substantially complete
- Construction of the new pumpstation continues
- Soils are wetted to prevent dust release
- Soils are covered at the end of workday
- 6 perimeter air monitors at OU4 continue to operate daily



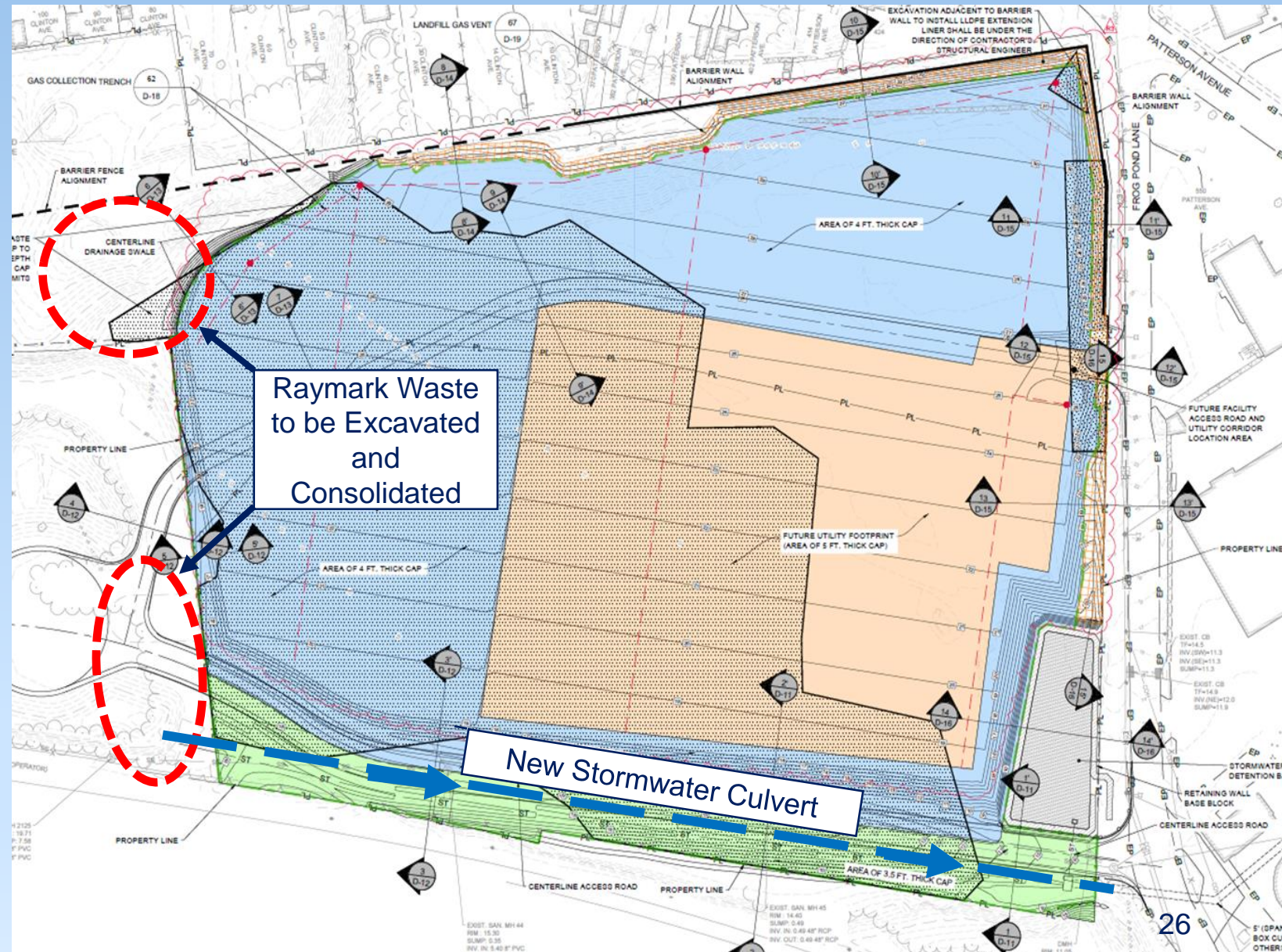
OU4 Consolidation Area



<https://www.ipcamlive.com/5fc7c13309700>

OU4 Consolidation Area Work Underway and Upcoming

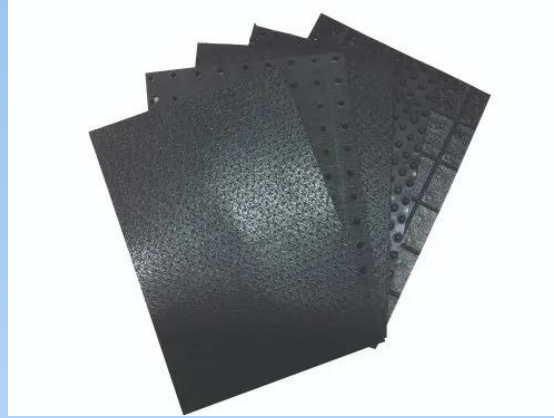
- Stormwater detention basin construction is substantially complete
- Final grading for the consolidation area is substantially complete
- Installation of the new stormwater culvert through OU4 to provide future drainage for adjacent Town owned property
- Excavation of the additional Raymark waste beyond the current limits of work (~8K CY)
- Sourcing cap cover soils
- Final grading and installation of gas collection system
- Liner installation and cover soils
- Final site restoration



OU4 Consolidation Area Outlook

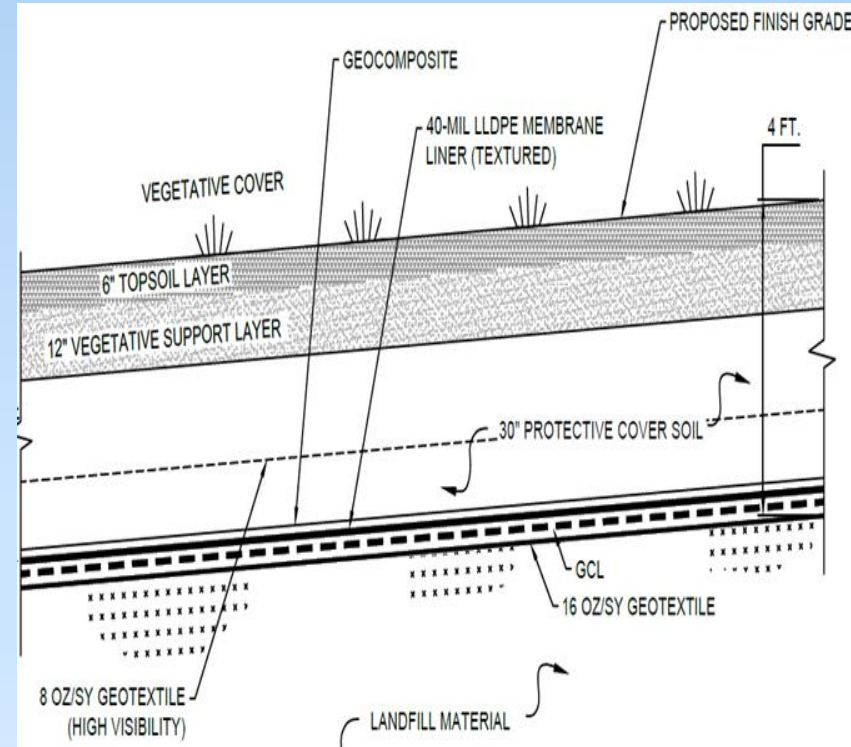
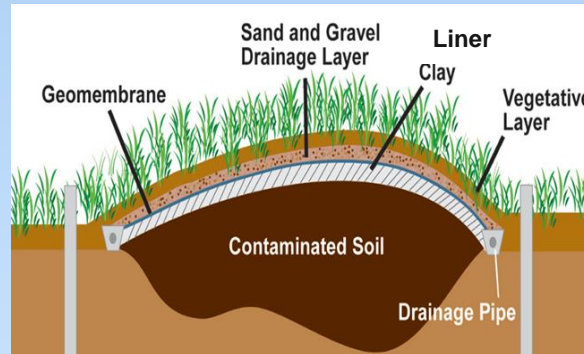
Winter 2024/2025

- Installation of new stormwater culvert through OU4 to provide future drainage for adjacent Town owned property
- Excavation of the additional Raymark waste beyond the current limits of work
- Final grading and installation of gas collection system



Spring 2025

- Installation of the cap liner materials
- Importing of cap cover soils
- Approximately 75K CY of clean cover soils (roughly 5K truck trips) to be brought in
- Adhering to the same approved transportation routes that were used to haul waste during that time



Summer 2025

- Final site restoration including grass cover is expected complete

OU4 Consolidation Area

Recent Aerial Image



Design Rendering



- Waste will be covered and secured by a low permeability liner and clean cap soils, with average thickness of 4-5'
- The 11-acre OU4 site will be capped and secure
- Primary and secondary access road
- An area of approximately 4 acres will be able to accommodate a structure and parking
- Stormwater detention basin will be primary collection point for all runoff

OU4 Stormwater System

Stormwater System Upgrades



New
Stormwater
Pump Station



Ashcroft

STM-CL-SB06
STM-CL-SB05
STM-CL-SB04

STM-CL-SB03

DPW

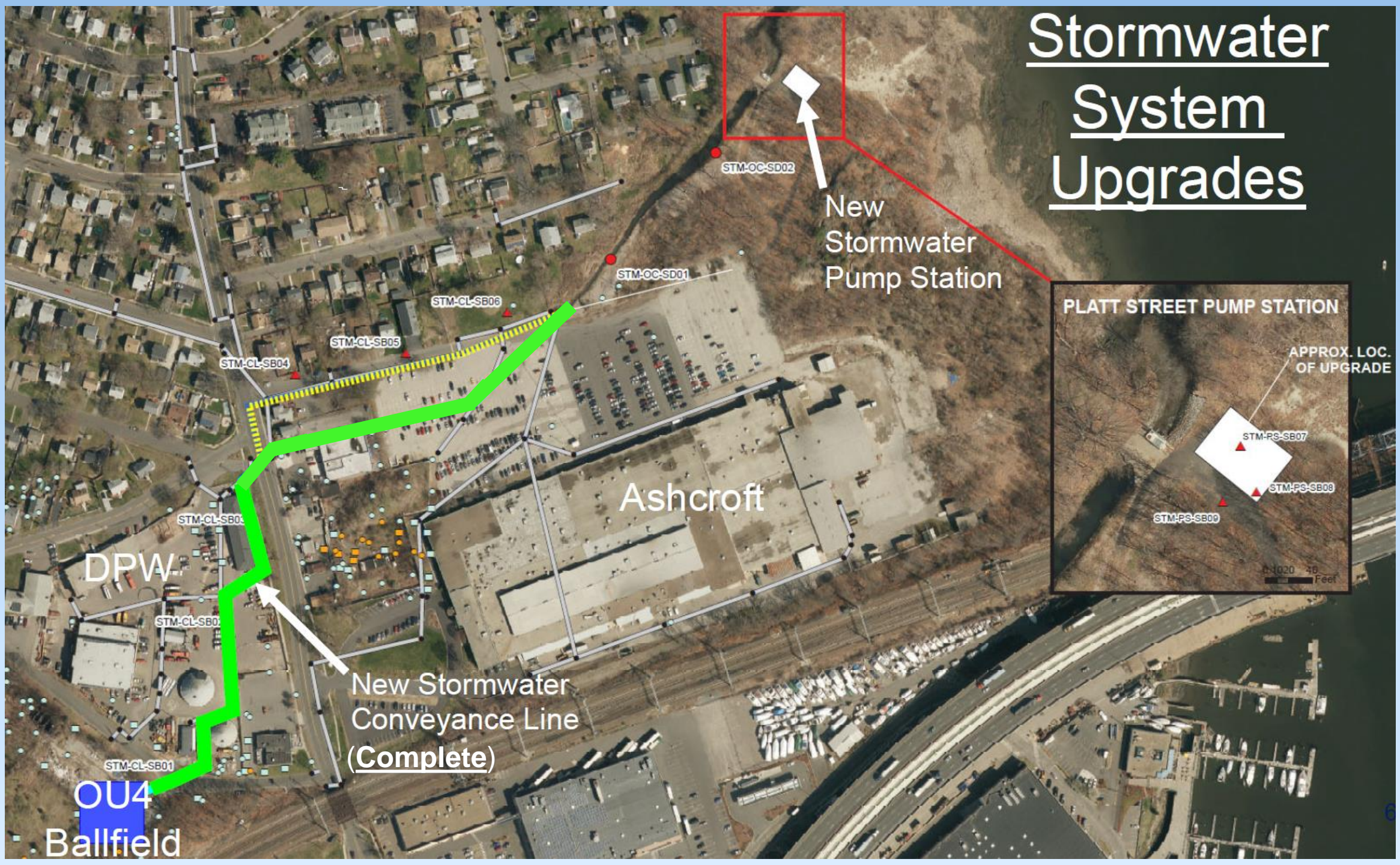
STM-CL-SB02

New Stormwater
Conveyance Line
(Complete)

STM-CL-SB01

OU4

Ballfield



New Pump Station

- Will manage future stormwater runoff from OU4 and adjacent Town stormwater systems
- P&S Construction – Prime contractor
- Construction underway
- Operates during significant storm and high-water events
- 4 Axial Flow Pumps, 200 CFS Capacity
- Masonry Pumphouse



Pumpstation – completed and upcoming site work

- Construction of the subsurface structure for the pumpstation and installation of the primary pumps is complete.
- Installation of the influent and effluent box culverts is underway.
- The construction of the above grade pumphouse building is near complete, walls have been erected and the roof has been installed. To follow is the installation of the interior and electrical components of the building.
- Pumpstation construction expected complete and operational Spring 2025



Site Monitoring

Raymark Air Monitoring Program

- Dust monitoring protects workers and abutting community
 - Dust Action Levels based on property and type of work
 - Action Levels = 0.014 (OU4) and 0.019 mg/m³ (OU3 and OU6) when Raymark Waste handled.
 - Action Levels = 0.075 mg/m³ (OU4 Early Detection Station)
 - Action Level = 0.150 mg/m³ when only clean soil handled
 - Chemical samples collected for lab analysis when Raymark Waste is handled
 - Low safety threshold – STOP WORK before any potential risk to workers or community
- Vibration monitoring conducted
 - STOP Work = 0.5 inches/second



Chemical Sampling Port

Dust Monitoring Station



Personnel Monitoring



Air Monitoring Results

- No exceedances of the applicable Daily Dust Action Levels during this period.
- No elevated chemical concentrations above the Action Level Criteria during this period.



Dust Monitoring Unit at OU4

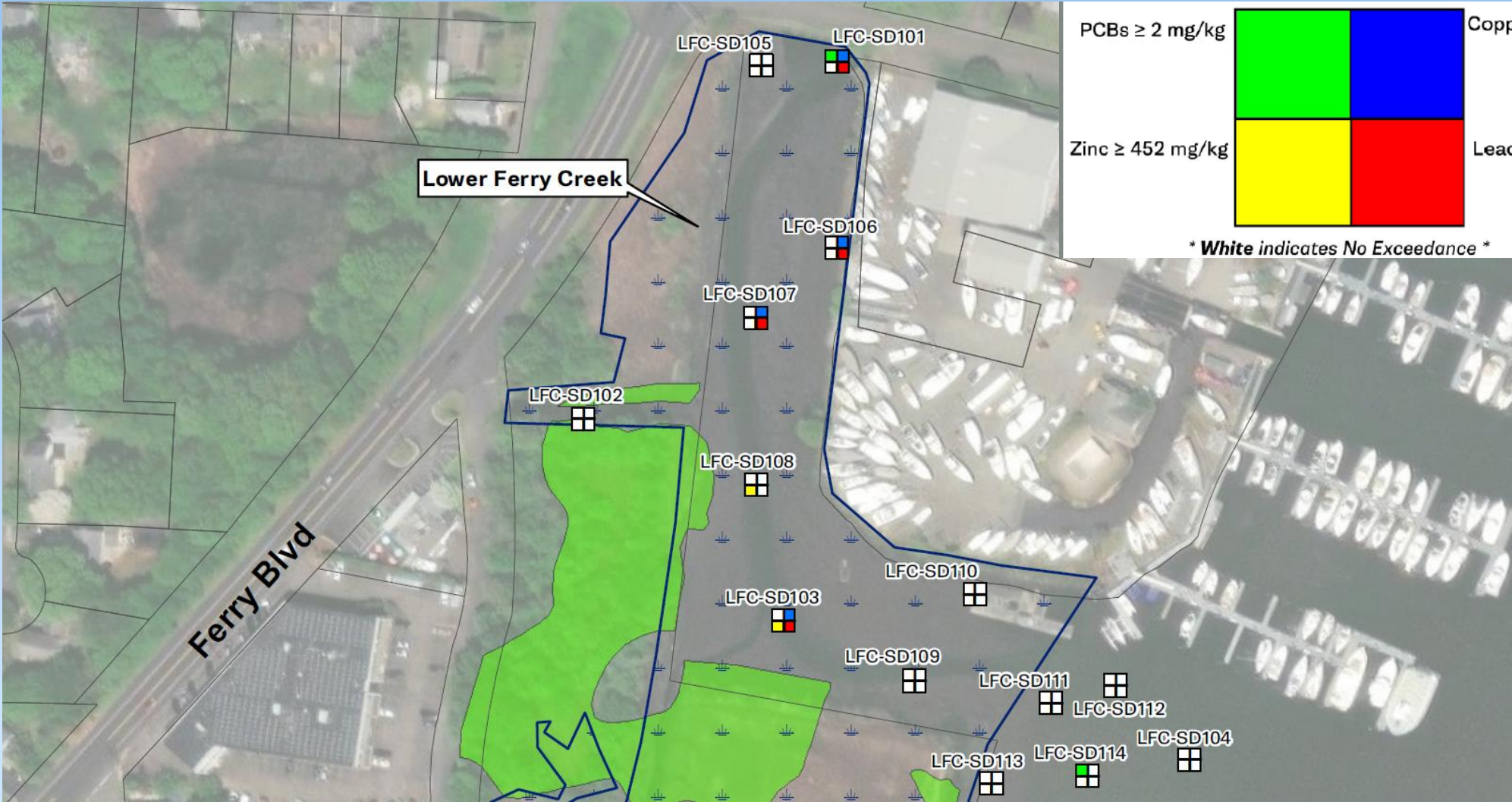
Vibration Results

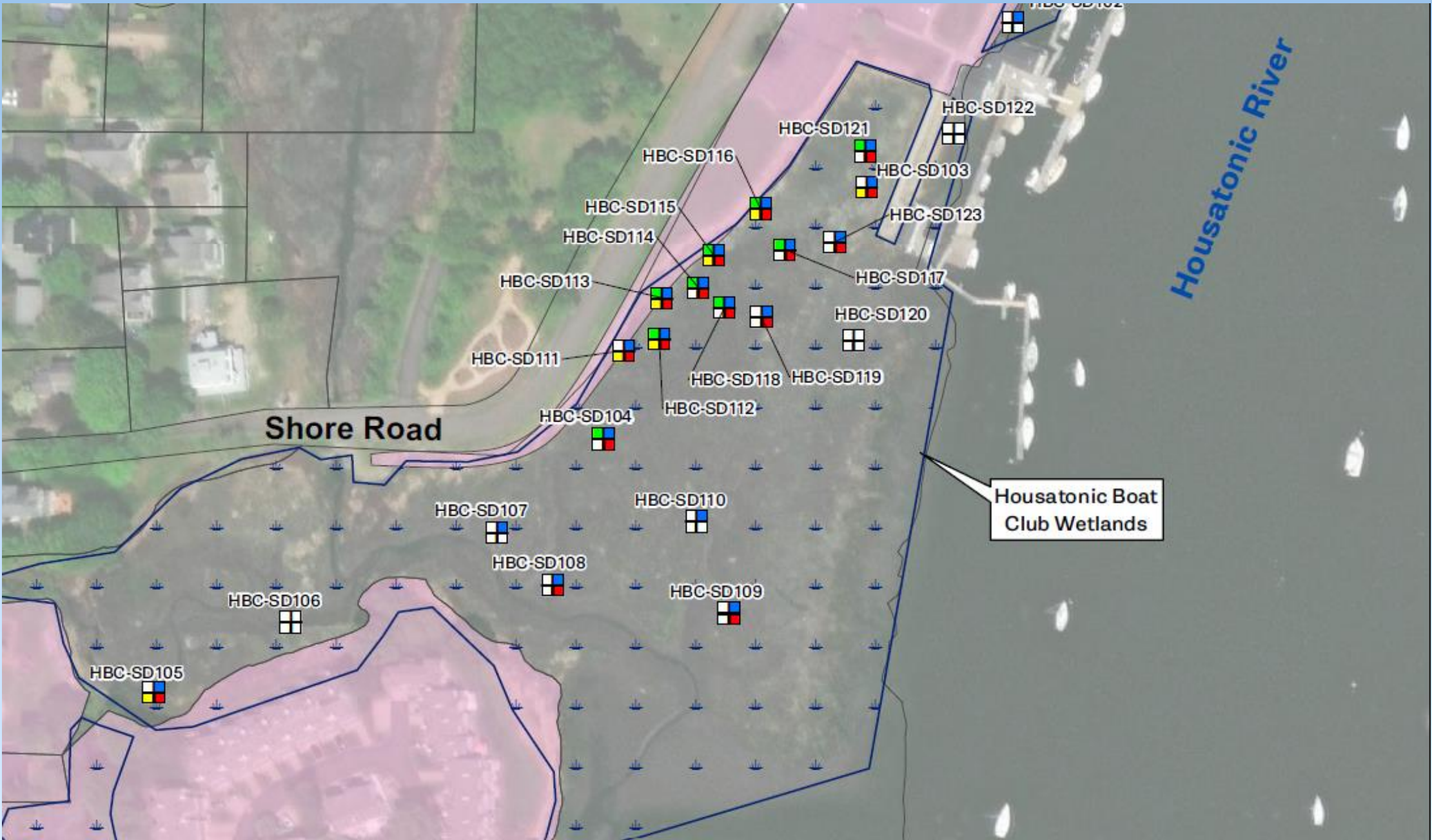


Vibration Monitoring Unit at OU4

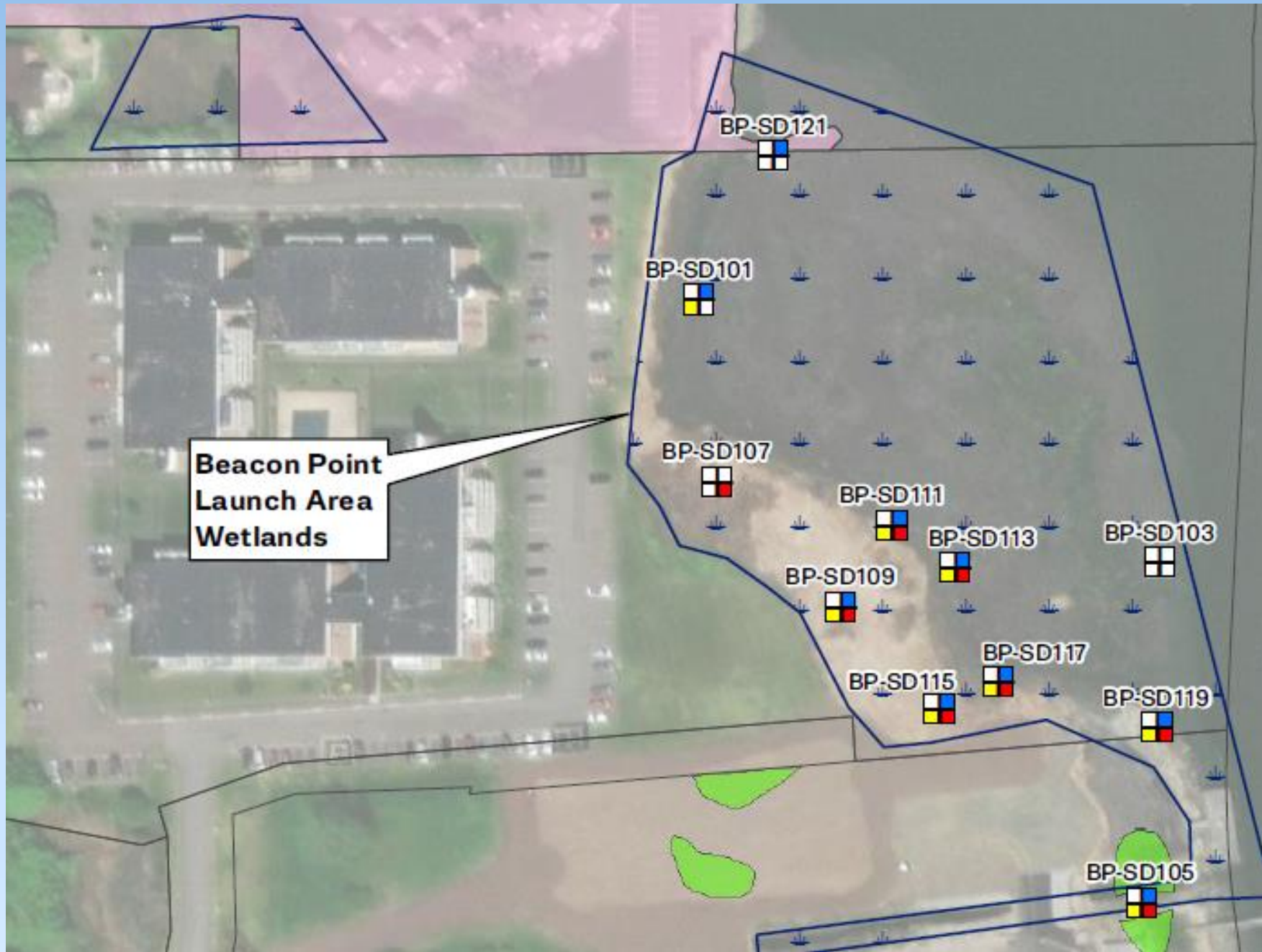
- Vibration monitoring criteria (0.50 in/s) were exceeded at OU4 on 10/07 due to thunderstorms.
- No site work related exceedances this reporting period.

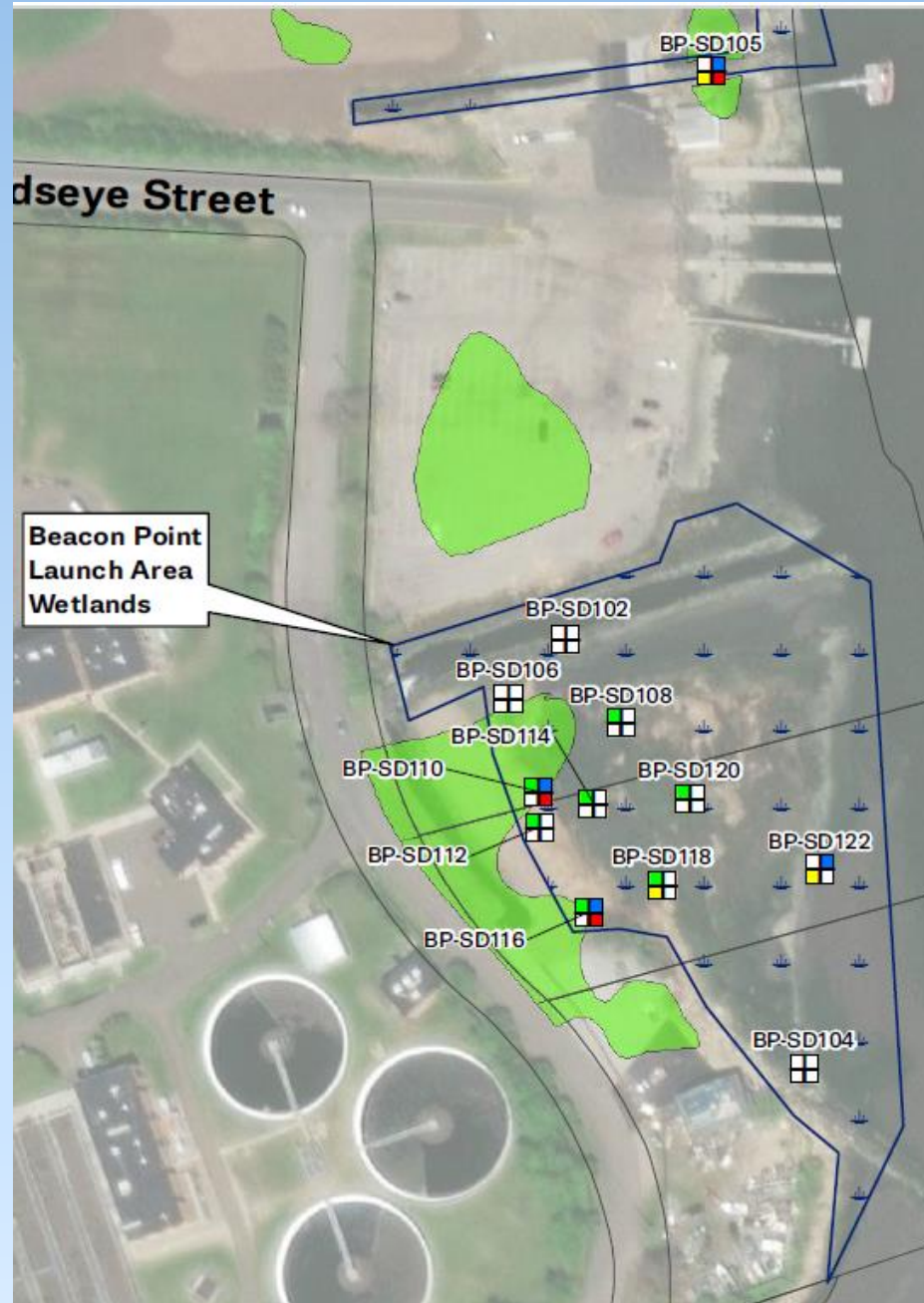
OU7/OU8 Wetland Areas

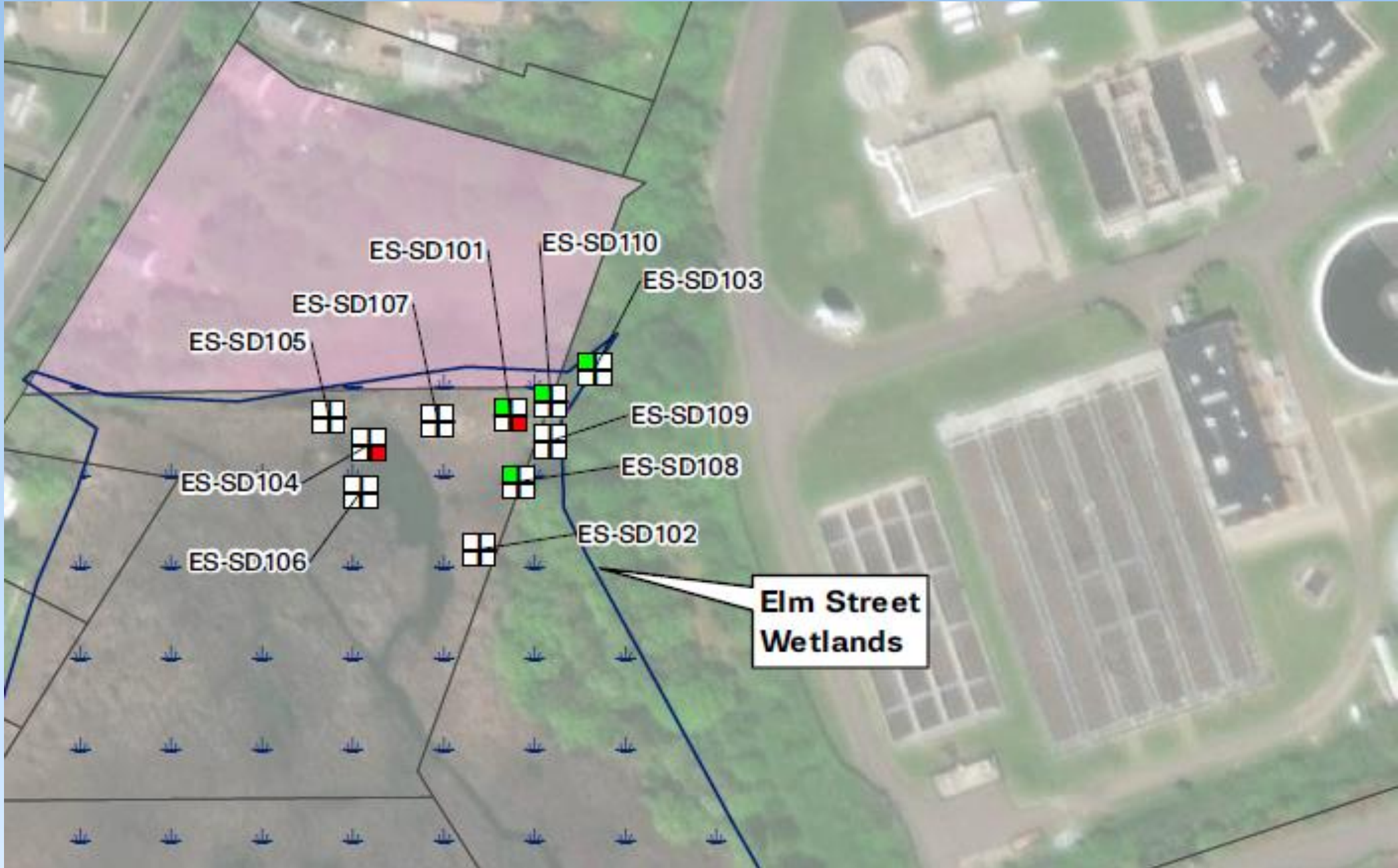


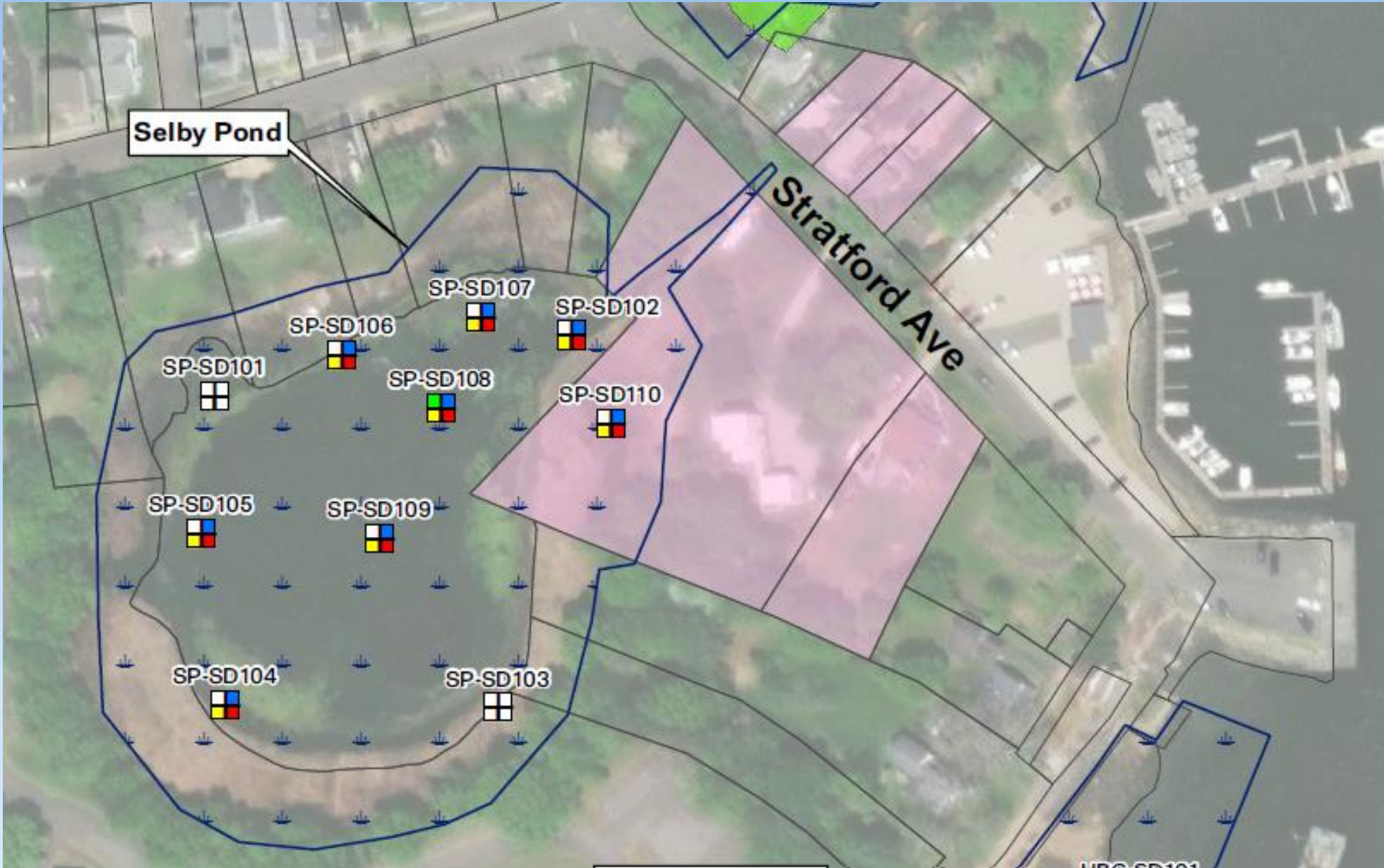












Operable Unit 9

- Approx. 94-acres study area including the former Stratford Landfill and Short Beach Park.
- Continuation of Remedial Investigation (RI) activities including portions of the Marine Basin. Completed field activities include:
 - Surface geophysics
 - Landfill gas survey
 - Soil boring & monitoring well installation
 - Hydraulic conductivity testing
 - Groundwater sampling (2 of 2 rounds)
 - Tidal study
 - Wetland delineation
- Anticipated Schedule:
 - Sediment, porewater, surface water & wetland soil sampling (~December 2024).
 - Data evaluation & data gap analysis (winter/spring 2025).
- RI Report, Feasibility Study (FS) and decision document to follow.



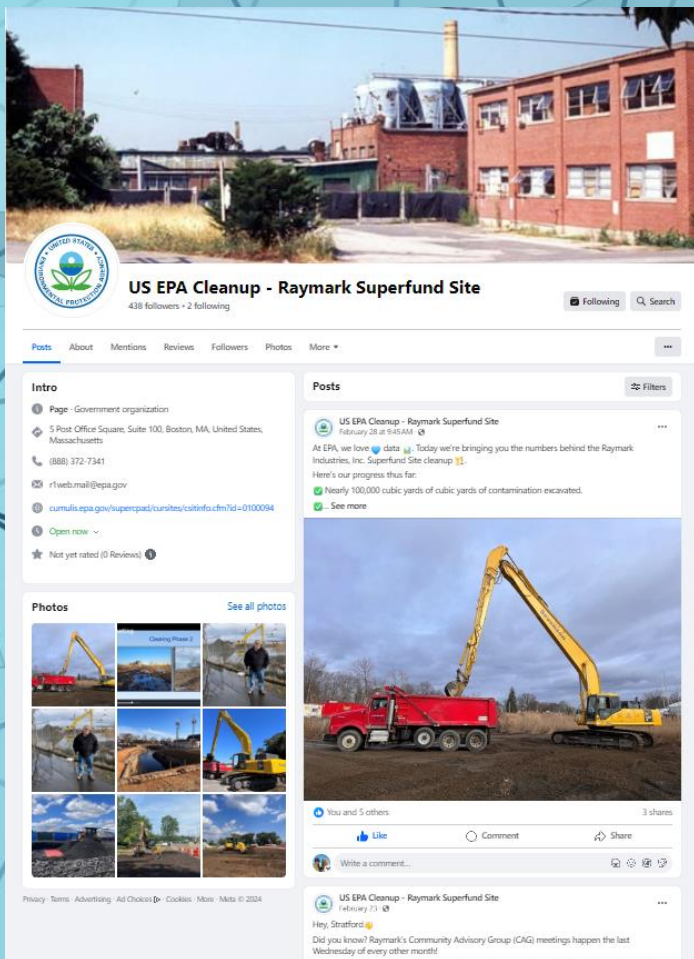
Overall Raymark Schedule

- **OU3/OU6 (Excavation Properties)**
 - Done. Few restoration items in 2025
- **OU4 (Consolidation Area)**
 - Spring 2025 capping system installed
 - Spring 2025: Stormwater pump station complete
 - Summer/Fall 2025: Backfill/restoration/planting
- **OU6 (Morgan Francis/Uppermost Ferry Creek)**
 - Spring 2025: Award remediation contract (includes OU5)
 - Summer 2025: Mobilize for cleanup
- **OU5 (Shore Road Area)**
 - Summer 2025: Remedial Design complete
 - Fall 2025: Mobilize for cleanup *** (pending available funds)
- **OU7/OU8 (Wetland Areas) and OU9 (Landfill and Short Beach Park)**
 - 2025-2027: Complete investigations/Issue proposed plans and RODs



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Next CAG Meeting January 29th at 6:30pm

For more information about the Raymark Superfund Site, including copies of presentation slides, documents and meeting minutes, please visit: stratfordct.gov/raymark