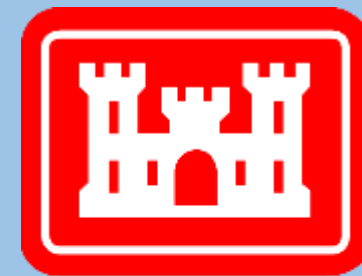


Community Advisory Group Meeting No. 37

Raymark Industries, Inc. Superfund Site Stratford, CT

Jim DiLorenzo, EPA
Jeff Saunders, EPA
Mike Looney, USACE
Rachel MacPhee, USACE
Alivia Coleman, Health Dept.

November 29, 2023



**US Army Corps
of Engineers®**

To download presentation slides visit:

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:

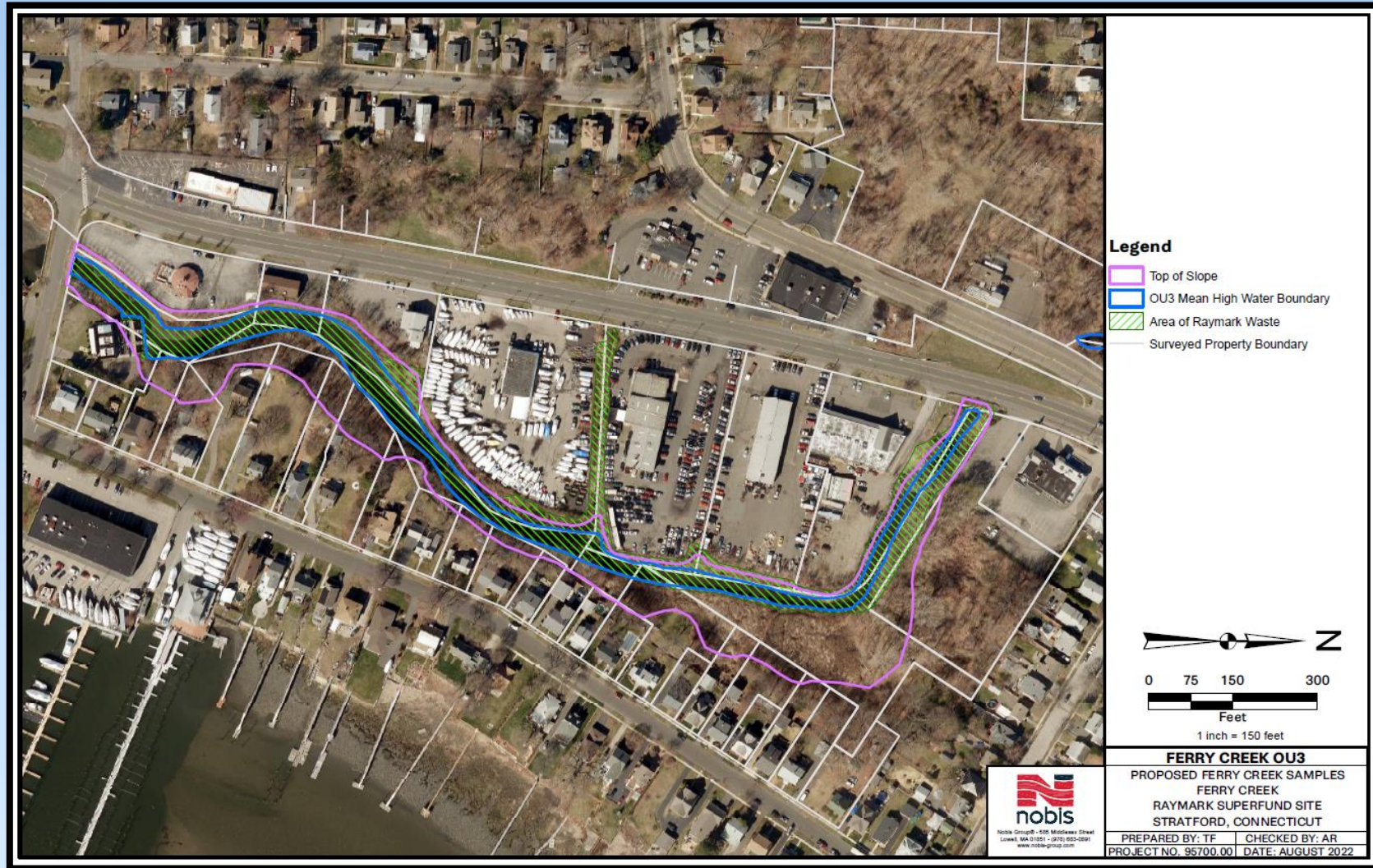
- Ask questions related to the presentation topic
- Please be respectful of time, so everyone has a chance to speak
- Be respectful and patient.
- Talk one at a time.
- **This meeting will be recorded.**

AGENDA

- INTRODUCTION AND MEETING RULES
- OPERABLE UNIT 3 and 6 (OU3, OU6) UPDATES
- LOCKWOOD AVENUE REMEDIATION
- STORMWATER PUMP STATION
- OTHER OPERABLE UNITS
- OVERALL PROJECT SCHEDULE

OU3 Update

OU3 Ferry Creek Remediation



OVERVIEW

- Ferry Blvd to Broad St (1/3 mile)
- Excavation from June to October
 - 2ft sediment removal channel
 - 4ft soil removal banks
- RW Removed: 12,100cy
- PHC removed: 277cy
- 2 Part Restoration
 1. Seeded coco mats and live stakes for banks (now)
 2. Trees/shrubs top of bank (Spring 2024)

OU3 Box Culvert at East Broadway/Ferry BLVD

Box culvert inlet at East Broadway



Box culvert outlet at Ferry Blvd



Removed 4 to 6 Feet of Sediment



OU3 Banks

Bank Along Rear EPA Office Lot



Bank Along Rear Vacant Lot



Before



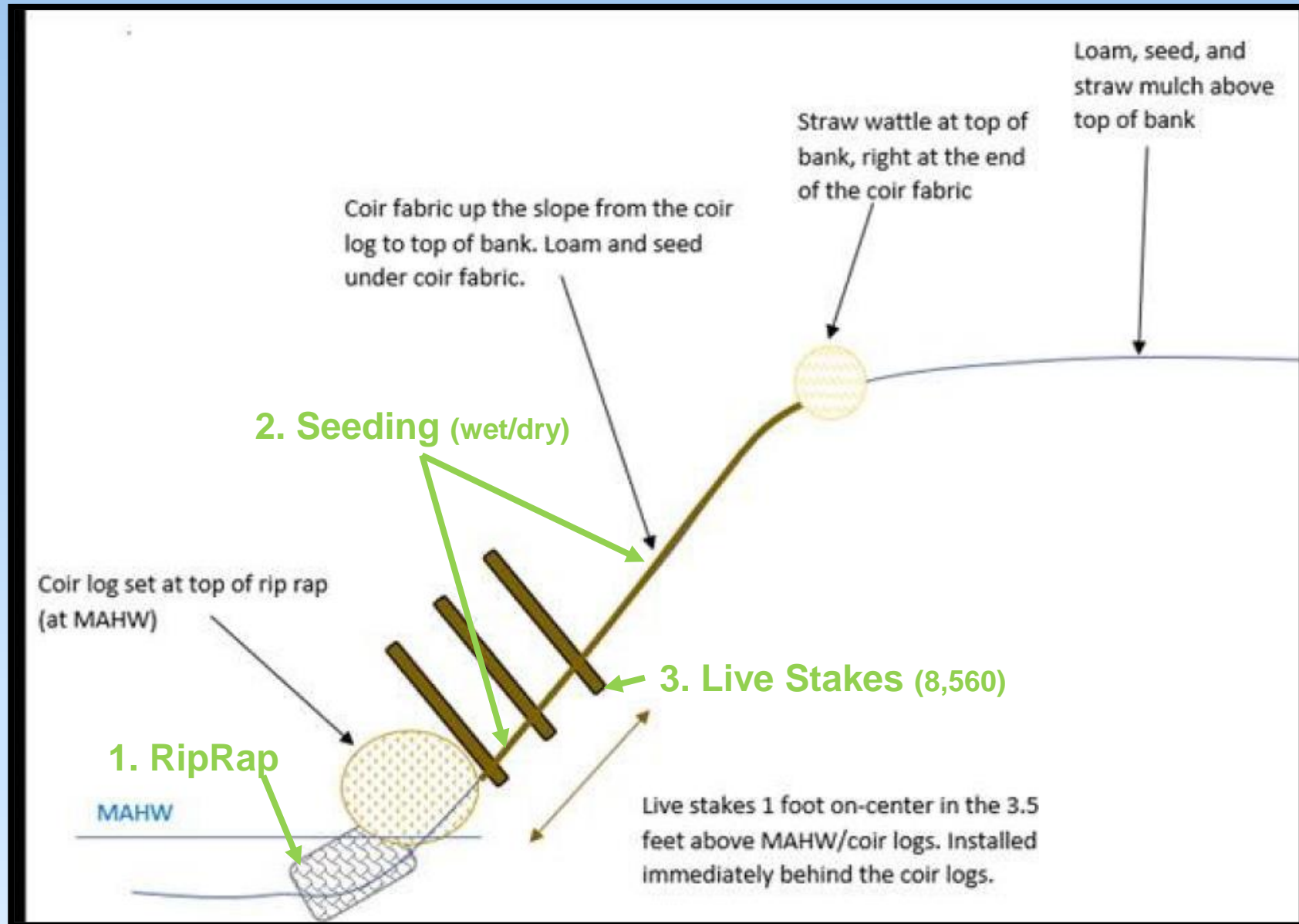
After



Clean and Functional but "Sterile"



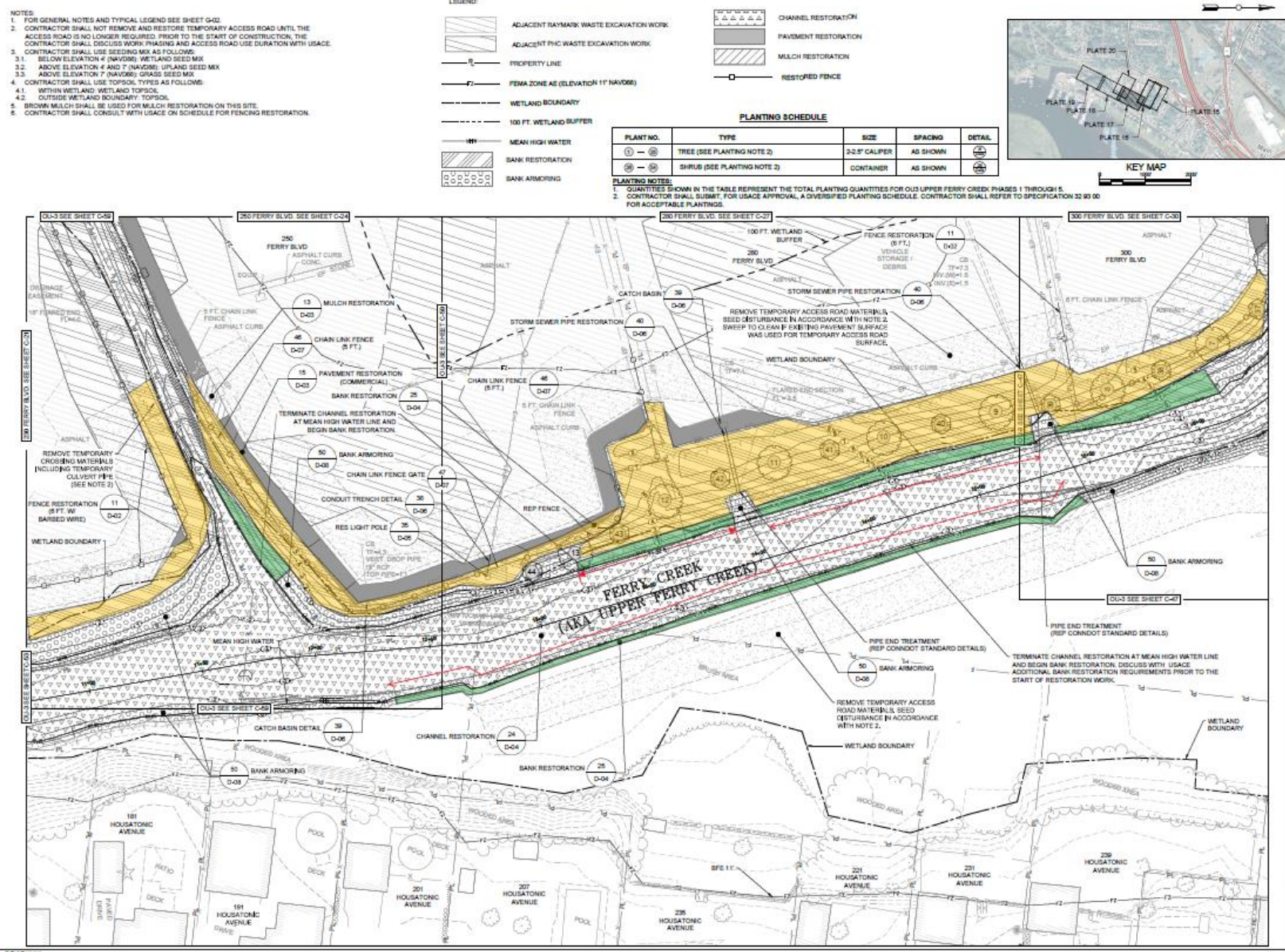
OU3 Restoration – Creek Banks



Bank Restoration



OU3 Restoration – Top of Bank



AECOM

PROJECT
 REMEDIAL DESIGN DRAWINGS
 RAYMARK SUPERFUND SITE
 Stratford, Connecticut

CLIENT
 US Army Corps of Engineers
 New England District

CONSULTANT
 AECOM
 500 Enterprise Drive Suite 30
 Rocky Hill, CT 06067-3913
 860.526.8852 fax 860.526.3691
 www.aecom.com

REGISTRATION

100% DESIGN

Brush Mattress or Brush Layering

ISSUE/REVISION

NO.	DATE	DESCRIPTION
1	09/13/2019	100% DESIGN

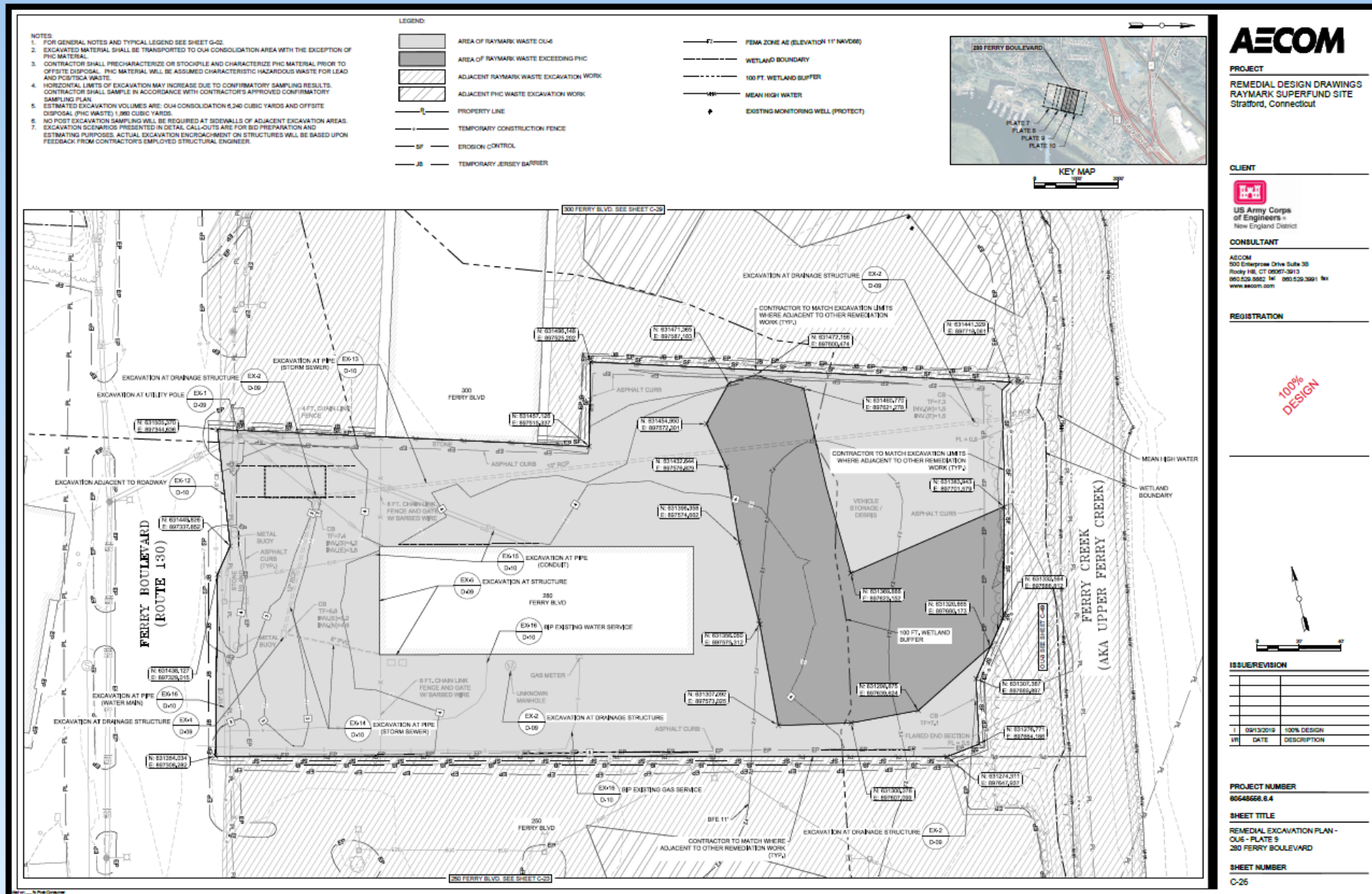
PROJECT NUMBER
06545668.8.4

SHEET TITLE
PROPOSED GRADING AND RESTORATION PLAN - OU3 - PLATE 17 UPPER FERRY CREEK PHASE 2

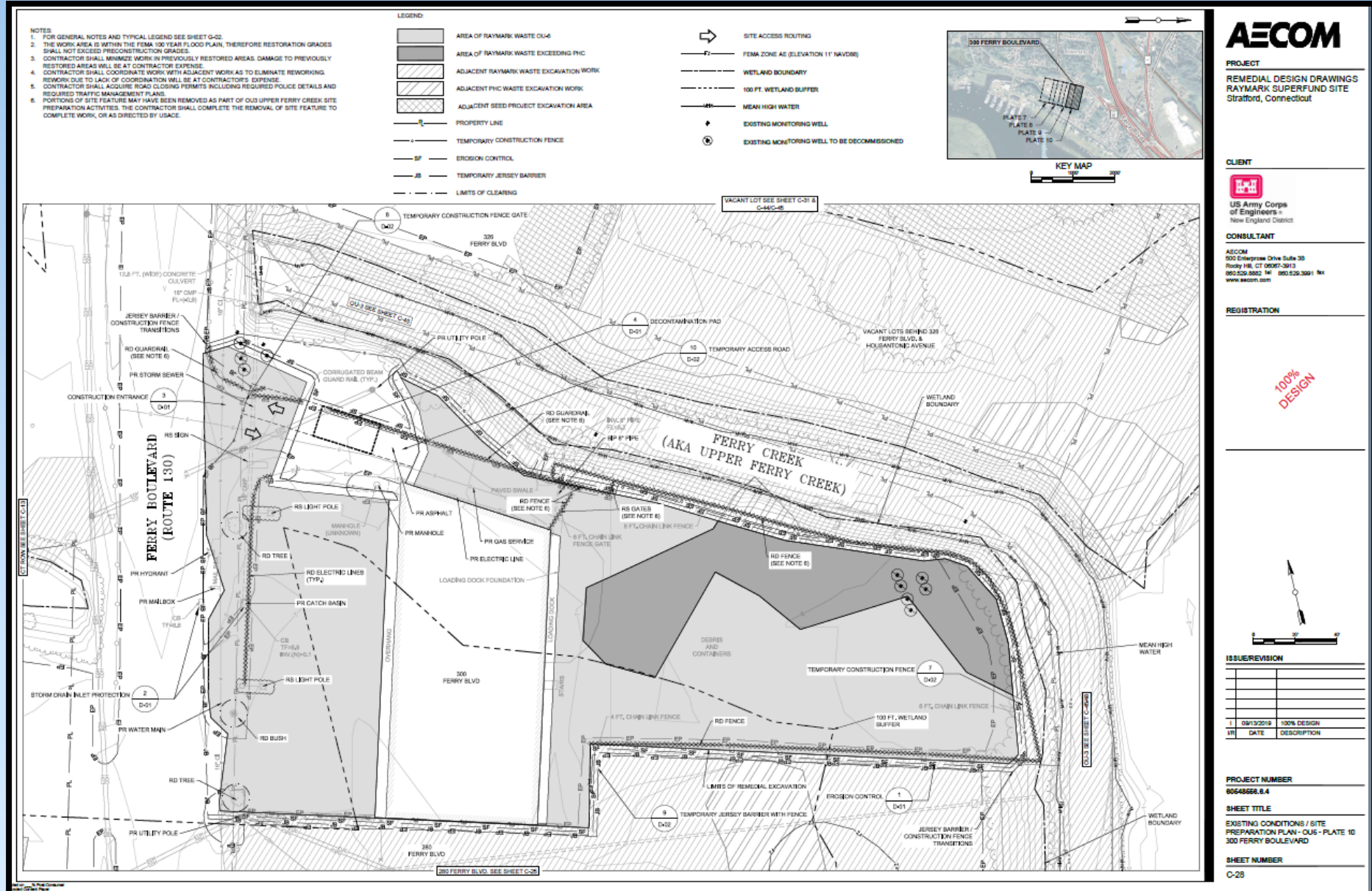
SHEET NUMBER
C-50

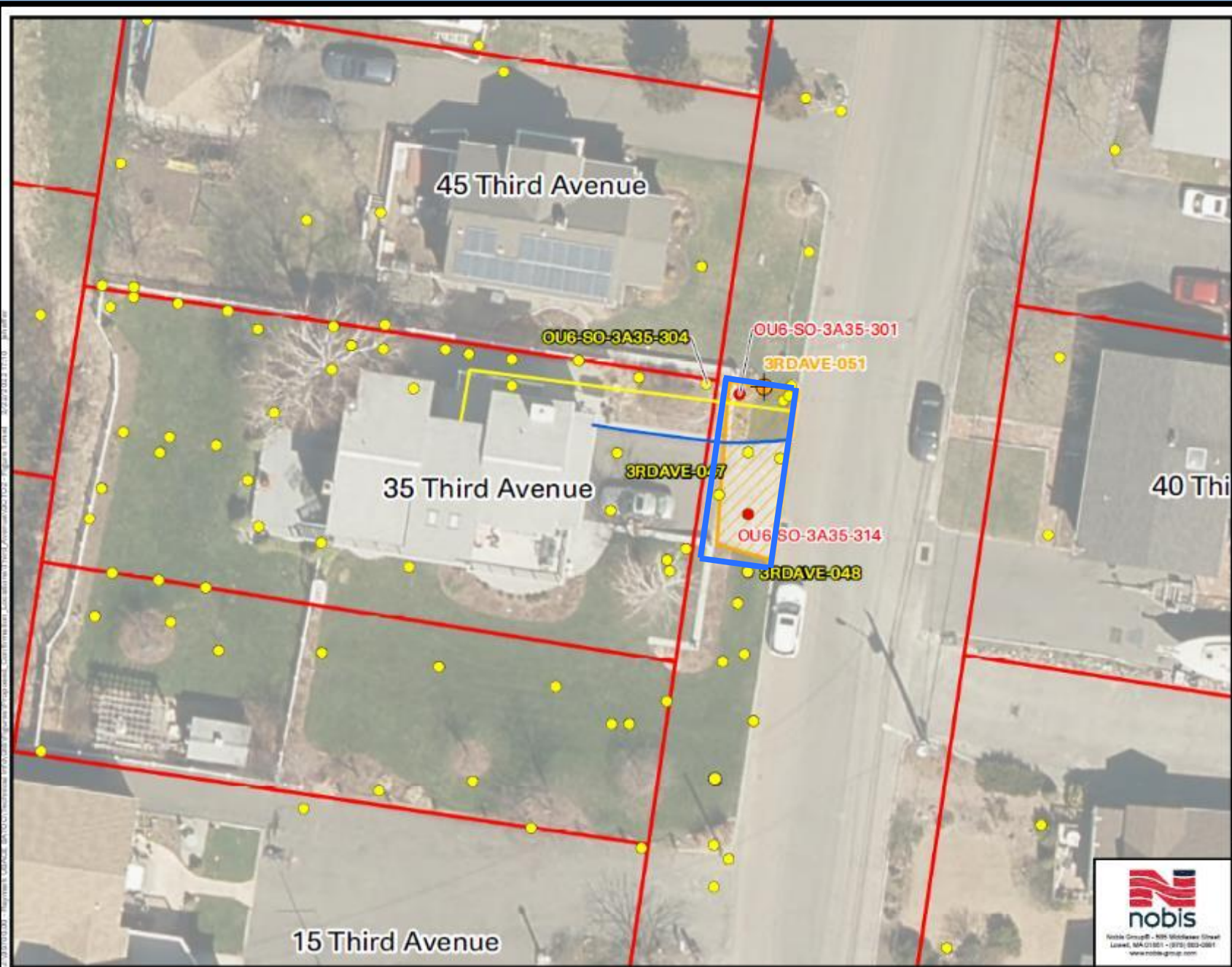
OU6 Properties

280 Ferry Blvd – Blasius South



300 Ferry Blvd – EPA Office





- Note:**
1. USACE evaluation of sample results determined that sample did not meet all thresholds for step-out criteria and further step-out sample collection is not required.
 2. USACE evaluation of sample results determined that sample met all thresholds for step-out criteria and further step-out sample collection is required.
 3. Raymark Waste and Non-Raymark Waste borings, and RW Areas from the Remedial Design Drawings and Pre-Design Investigation.
 4. Property boundaries are derived from the Remedial Design Drawings.
 5. According to FEMA's National Flood Hazard Layer, the property 35 Third Avenue and parcels to the north, east, and south are located in the AE EL-11 Floodplain. Parcels to the west are located in the VE EL-14 Floodplain.
 6. Historical Samples 0-4' include samples collected from the following intervals: 0-4' bgs, 1-4' bgs, 2-4' bgs, 1-3' bgs, 2-3' bgs, and 3-4' bgs.
 7. Raymark Waste designation in historical samples are based on exceeding the Raymark Waste Criteria.
 8. Locations of site features depicted hereon are approximate and given for illustrative purposes only.

Legend

- Proposed Confirmation Boring
 - Post Construction Confirmation Sample
- Raymark Waste detected? (0-4')
 - Yes
 - No
- Historical Samples 0-4'
 - Raymark Waste
 - Non-Raymark Waste
- Water Line
- Natural Gas Line
- Raymark Waste Limits
- Stratford Parcels

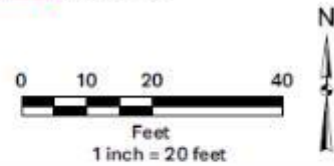


FIGURE 1 - 35 THIRD AVE 0-4FT BGS



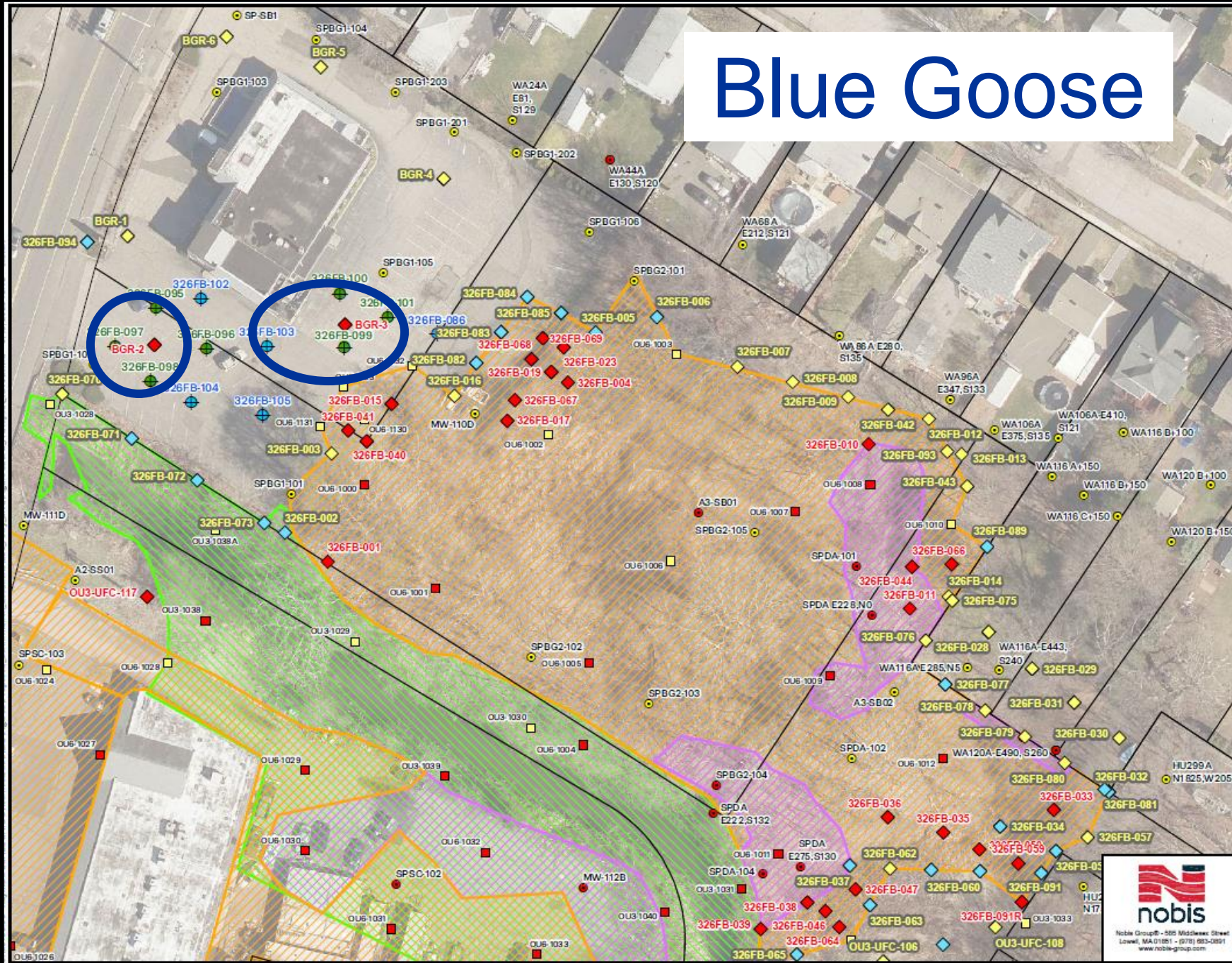
GCTO2
 35 THIRD AVENUE
 RAYMARK SUPERFUND SITE
 STRATFORD, CONNECTICUT

PREPARED BY: JTS	CHECKED BY: AR
PROJECT NO. 95700.00	DATE: FEBRUARY 2022

Third Ave ROW

Spring 2024

Blue Goose



- Note:**
1. USACE evaluation of sample results determined that sample did not meet all thresholds for step-out criteria and further step-out sample collection is not required.
 2. Raymark Waste and Non-Raymark Waste borings, and RW Areas from the Remedial Design Drawings and Pre-Design Investigation.
 3. Historical Samples 0-4' include samples collected from the following intervals: 0-4' bgs, 1-4' bgs, 2-4' bgs, 1-3' bgs, 2-3' bgs, and 3-4' bgs.
 4. Historical Samples 0-2' include samples collected from less than or equal to 2' bgs.
 5. The samples will be collected from the Pre Utility Confirmation Sample at depths 0-2', 2-4', and 4-8'.
 6. Locations of site features depicted hereon are approximate and given for illustrative purposes only.

Legend

- ◆ Samples to be held at the Lab
- ◆ Proposed Step-out Samples

Confirmation Stepout Sample Required?

- ◆ Yes
- ◆ No
- ◆ See Note 1

AECOM PDI Samples

- Raymark Waste
- Non-Raymark Waste

Historic Samples 0-4'

- Raymark Waste
- Non-Raymark Waste

- Approx. Survey Boundaries
- ▨ Raymark Waste Limits
- ▨ PHC
- ▨ OU3 Raymark Waste Limits

0 25 50 100
Feet
1 inch = 50 feet

FIGURE 326FB-A

RW AND PHC EXTENT VERTICES
VACANT LOT BEHIND 326 FERRY BLVD
RAYMARK SUPERFUND SITE
STRATFORD, CONNECTICUT



PREPARED BY: DFM	CHECKED BY: AR
PROJECT NO. 95700.00	DATE: SEPTEMBER 2023

OU3/OU6 REMEDIATION TRACKING TABLE

Area	Location	Excavation Dates	Volume (cy)	Truck Trips	Properties
Hitchcock (additional)	230 Ferry Blvd	Sept 2023	1,998	190	0
Big Jim's	170 Ferry Blvd	Sept/Oct 2023	1,140	80	1
Blasius	280 Ferry Blvd	*Ongoing	3,460	338	1
			1,785	163	1
OU3 Ferry Creek	FB to Broad	June 2023 to Sept 2023	12,706	1,280	1
			710	70	1
TOTALS TO DATE =		Raymark Waste	72,178	6,103	24
		PHC Waste	8,149	762	14

OU6 Remaining Properties

Area	Location	Excavation Dates	Estimated Volume (cy)
Blasius	280 Ferry Blvd	Oct/Nov 2023	1,500 (0)
Blue Goose	326 Ferry Blvd	Winter 2024	150 (0)
EPA Office	300 Ferry Blvd	Nov/Dec 2023	5,010 (1,090)
3 rd Avenue	3 rd Avenue	Oct/Nov 2023	100 (0)
Lockwood Ave	Lower Ferry Creek	Jan to June 2024	*15,000 (0)
Estimated Remaining Volume		Raymark Waste	21,760
		PHC Waste	1,090

Estimated Final Volume at OU4

Raymark Waste: 72,178cy+21,760cy = 93,938cy

PHC Waste: 8,149cy+1,090cy = 9,239cy

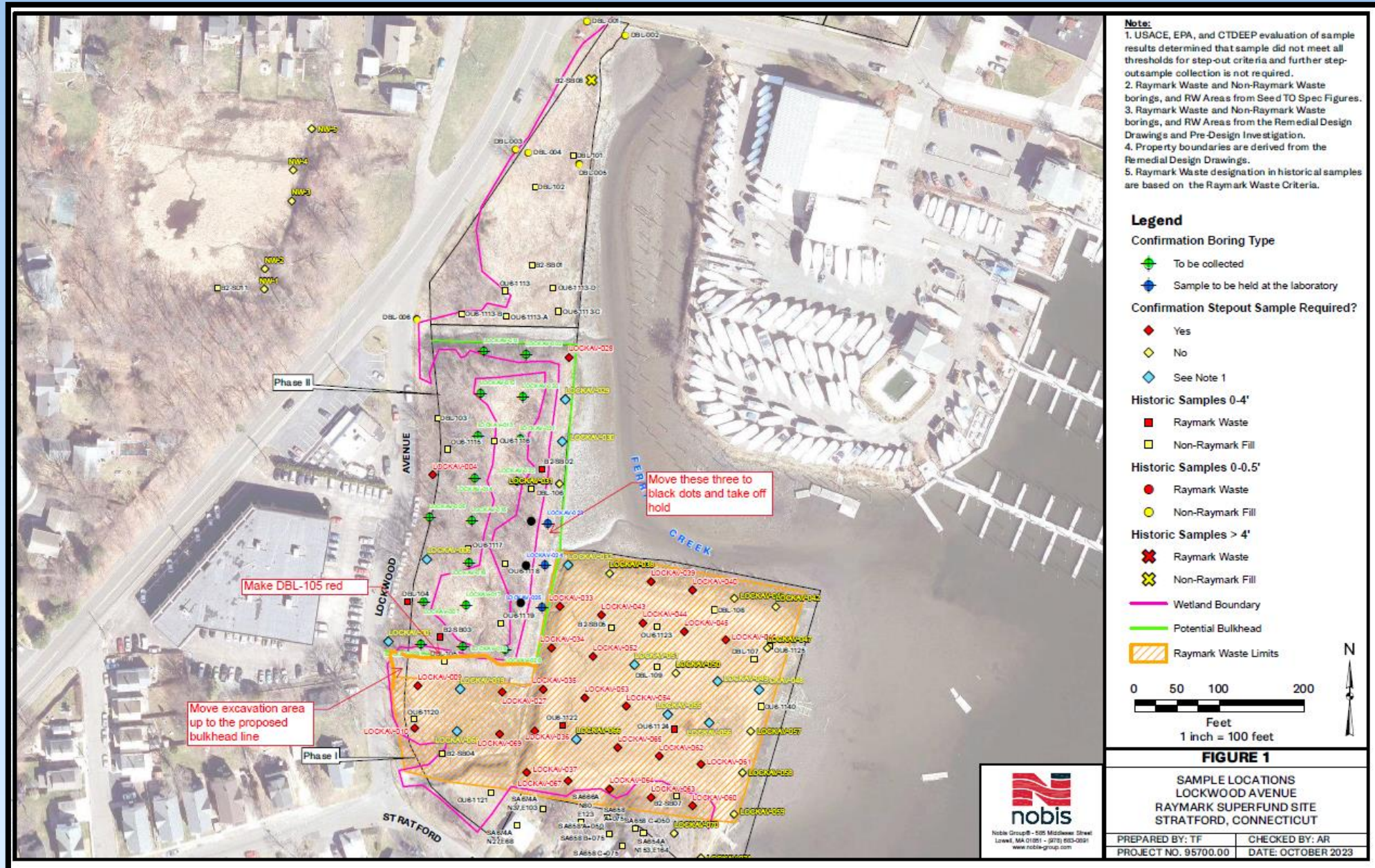
OU6 Lockwood Avenue

Lockwood Avenue

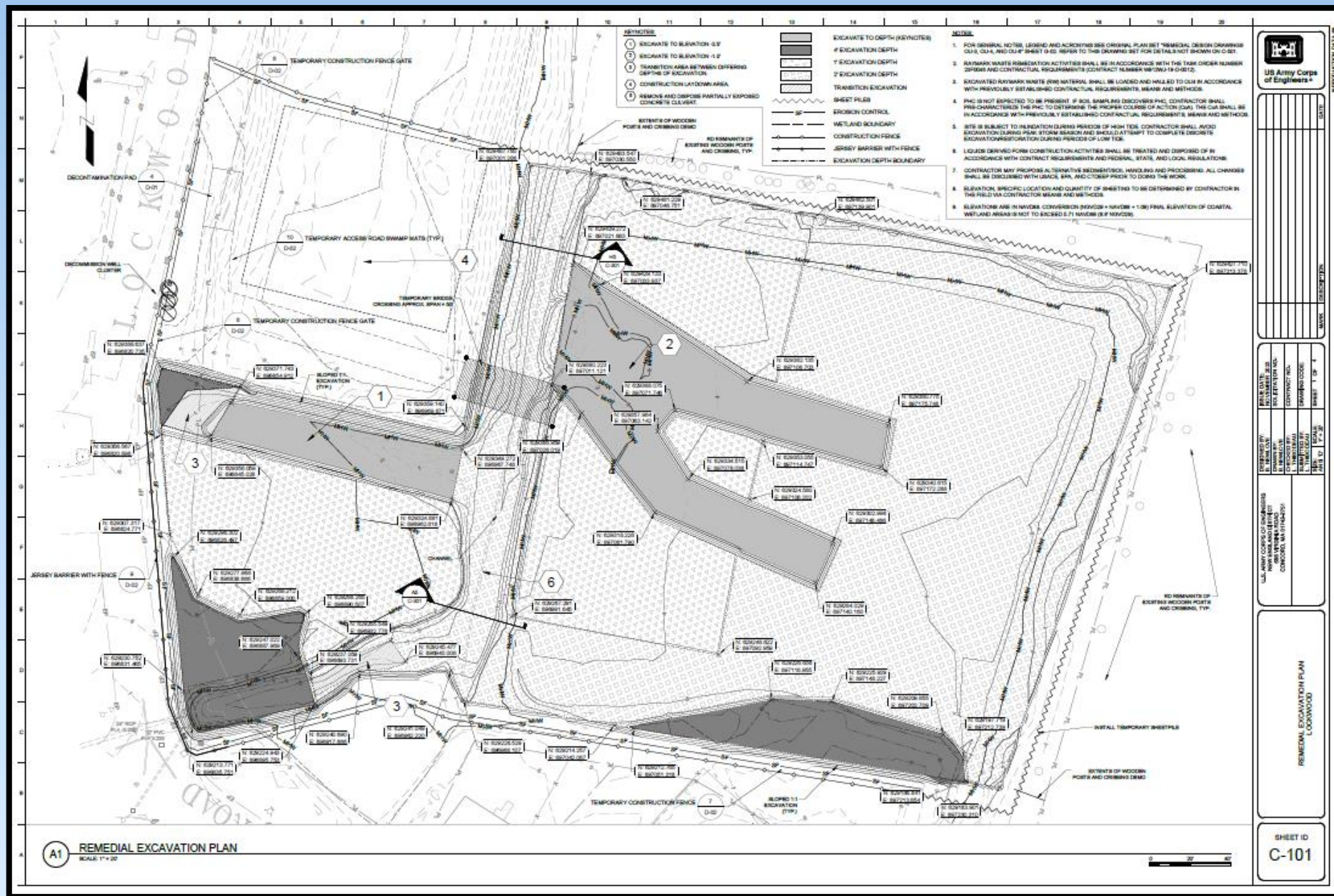
- ~ 4 acres
- 15,000cy RW
- Phase 1: Tidal wetlands and southern channel
- Phase 2: Non-tidal wetland and northern channel
- Clean Culverts
- Bulkhead
- Northern Wetland



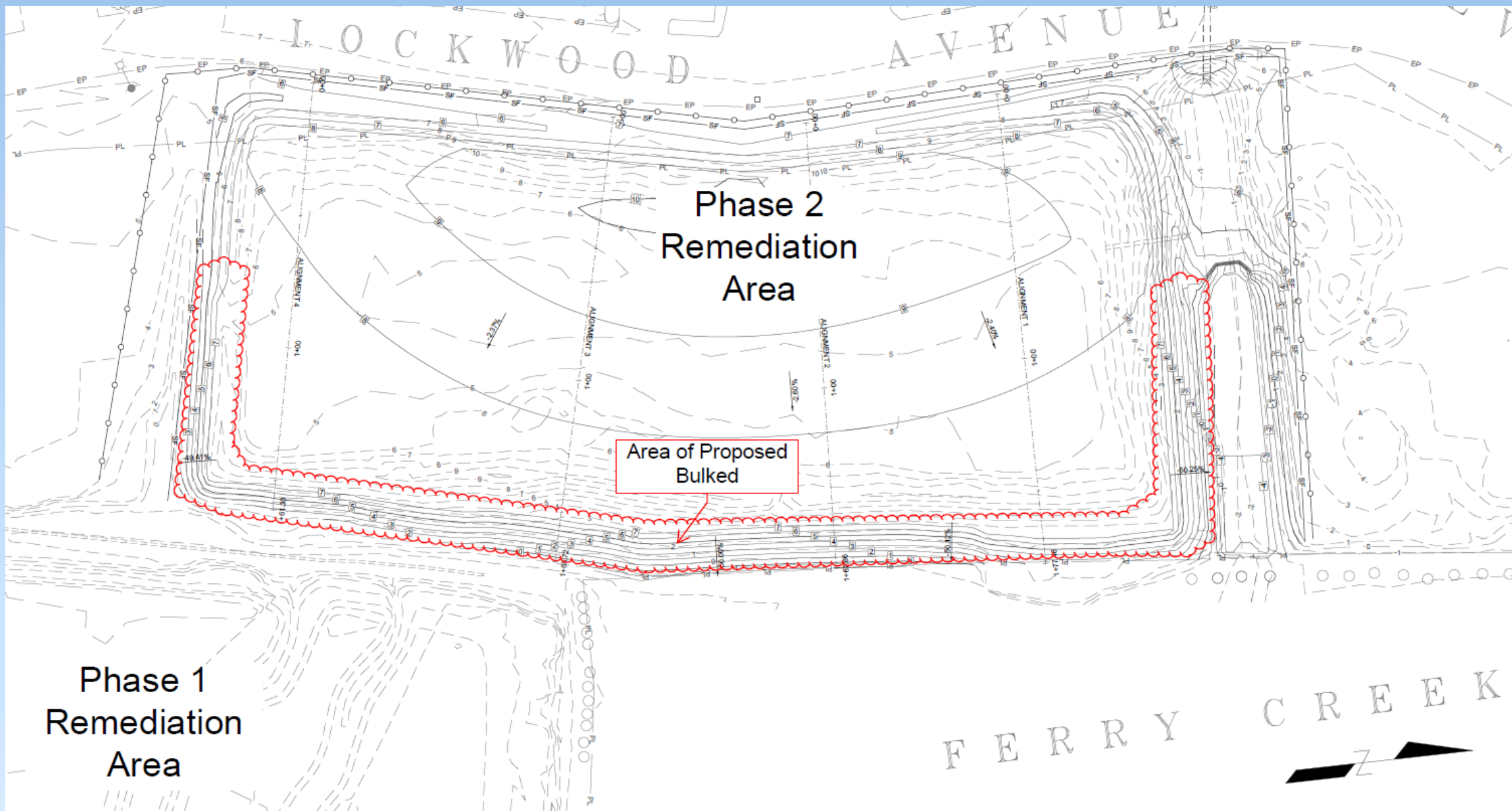
Extent of Raymark Waste/Sampling



Phase 1 Remediation (Jan to March 2024)



Phase 2 Remediation (March to June 2024)



OU4 Updates

OU4 Consolidation Area Work Completed or Ongoing Since September



<https://www.ipcamlive.com/5fc7c1899d5a3>



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

- Approximately 72,000 CY of material has been consolidated, compacted, and covered to date
- Posi-Shell cover has been applied on all previously imported Raymark Waste at the Ballfield
- Stormwater treatment plant has been established at the consolidation area
- Stormwater conveyance line construction complete
- Pumpstation construction is underway
- 6 perimeter air monitors at OU4 are operating daily

OU4 Consolidation Area



- Approximately 72,000 CY of material has been consolidated, compacted and covered
- Winter operations underway (stockpiling)
- Trailer relocation to OU4 entrance at Haul road
- Permanent Stormwater Detention basin construction
- Final grading for cap placement to begin spring 2024





OU4 Consolidation Area

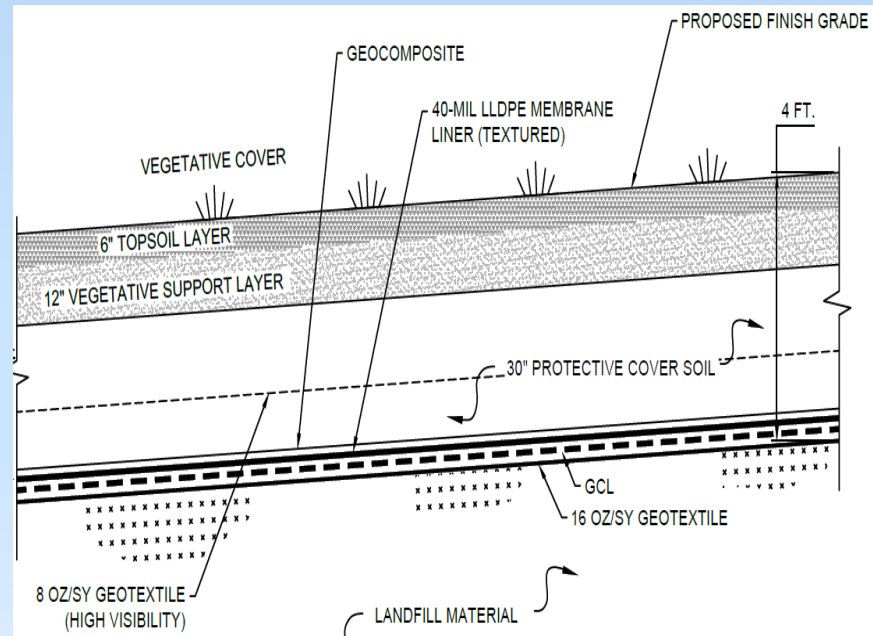
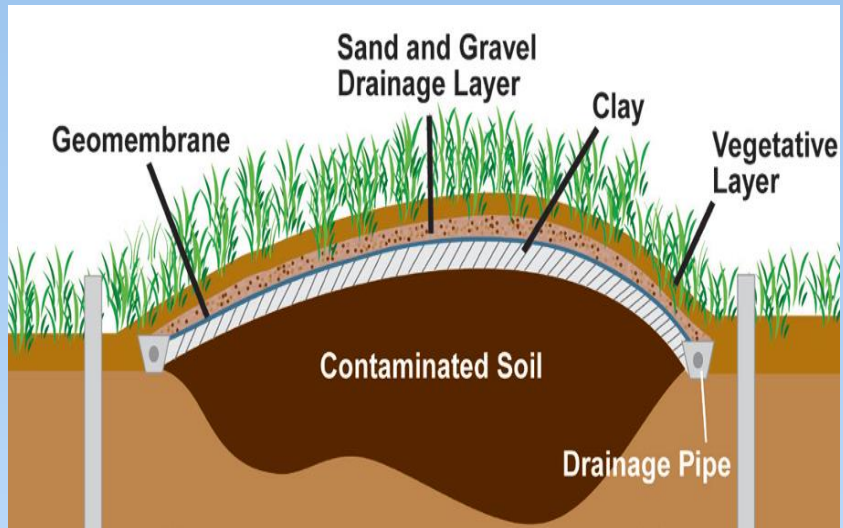
Recent Aerial Image



Design Rendering



OU4 Cover System



- 3-D concept (above) based on current design
- Site design accommodates future use by the Town
- Section of cap designed for future development / use. Will accommodate a variety of options.
- Access from Frog Pond Lane and Longbrook Ave via Haul Road
- Site stormwater will be collected and carried via new conveyance system and pumpstation
- Design revision underway to account for lower final elevation

OU4 Stormwater System

Stormwater System Upgrades



New
Stormwater
Pump Station



Ashcroft

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

STM-CL-SB03

DPW

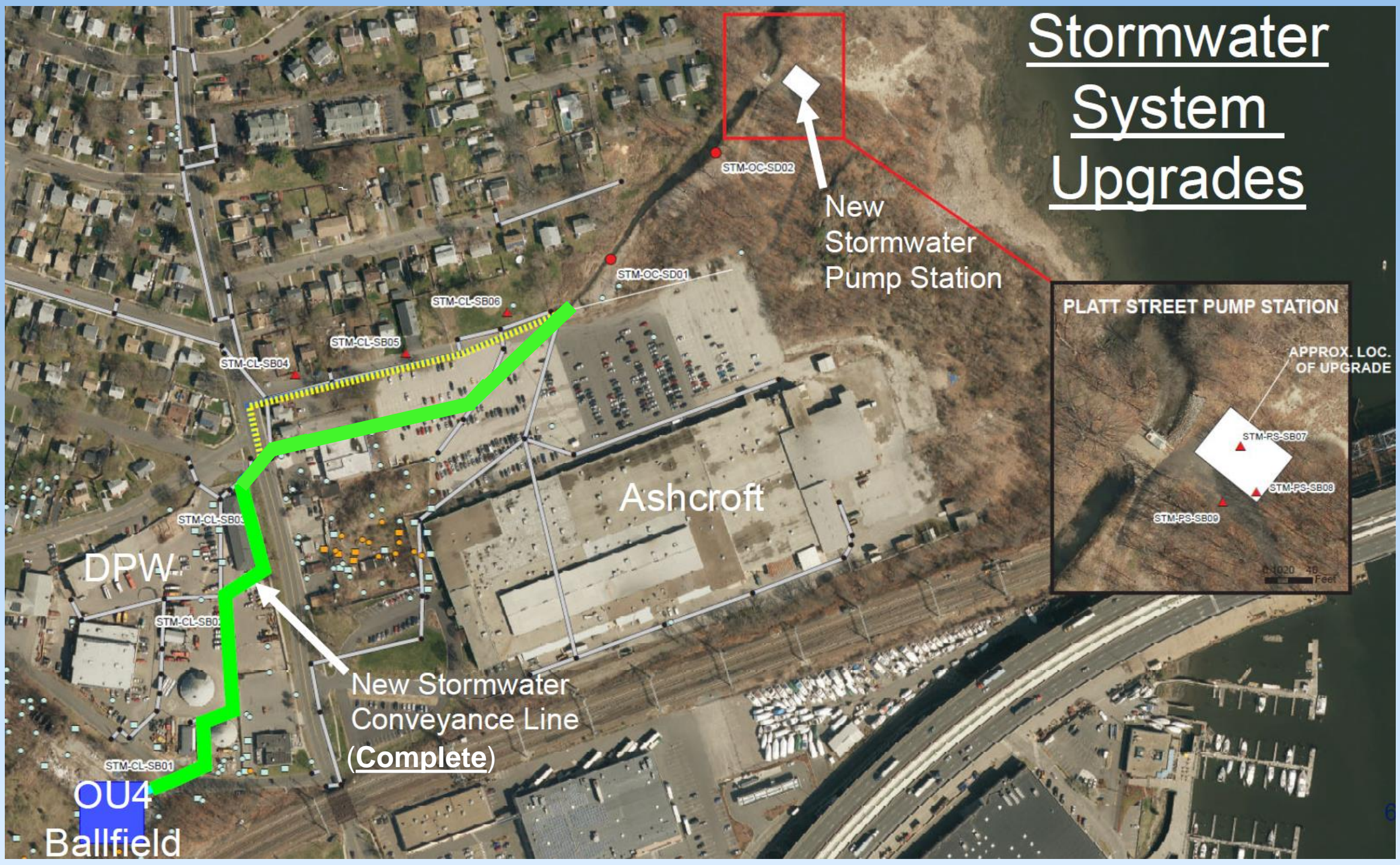
STM-CL-SB02

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
- Construction expected complete December 2024
- Operates during significant storm and high-water events



Pumpstation Excavation



Pumpstation – completed and upcoming site work

- Blasting operations are complete
- Excavation of the broken rock and foundation prep is underway
- Transformer pad and duct bank install at end of Platt Street
- Concrete work for the new Pumpstation to begin in January



Air 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.



Compacting subbase to prepare for paving at
170 Ferry Blvd

Vibration Results

- A series of vibration exceedances were observed on 9/25 at 170 Ferry Blvd - SW Corner. These exceedances were due to thunder and not site activities.
- On 10/4 the geophone for the vibration meter at 170 Ferry Blvd was hit from above by direct contact. This caused an exceedance.
- Vibration monitoring criteria were exceeded on several dates this period due to vibrator roller machines and other heavy equipment.
 - Exceedances on 10/24 (max 1.27 in/sec), 10/31 (max 0.68 in/sec), and 11/06 (max 7.38 in/sec) at 170 Ferry Blvd.
 - Exceedance on 10/11 (max 0.6 in/sec), 10/23 (max 0.56 in/sec), 11/15 (max reading 2.89 in/s), 11/16 (max reading 6.43 in/s), and 11/17 (max reading 3.08 in/s), at 280/300 Ferry Blvd.
 - These exceedances did not result in complaints or concerns from abutters, and use of roller machines and other heavy equipment near buildings is being limited as much as possible.

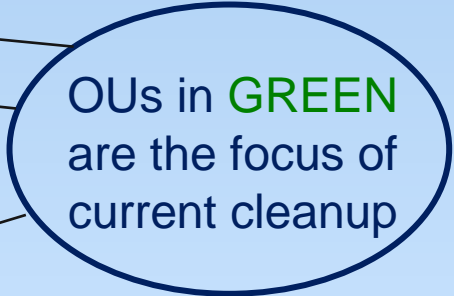
Other Raymark Operable Units (OUs)

Nine Operable Units

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

- OU3: Upper Ferry Creek
- OU4: Raybestos Memorial Ball Field
- OU5: **Shore Road Boat Club
- OU6: Additional Fill Properties

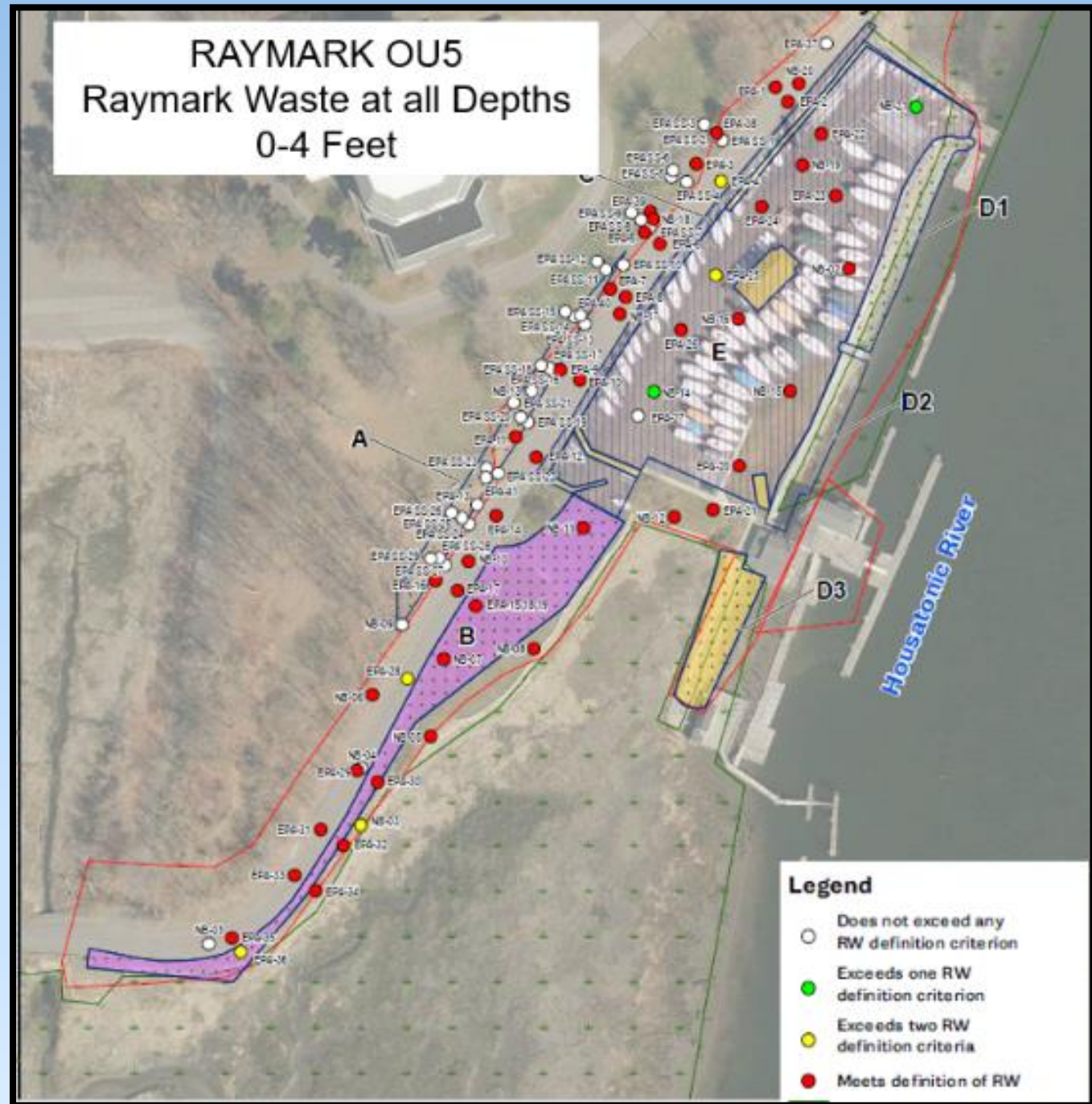
- OU7: Lower Ferry Creek
- OU8: Beacon Point Boat Launch
- OU9: Short Beach Park/Stratford Landfill



OUs in GREEN
are the focus of
current cleanup

Record of Decision (ROD) for OU5 Shore Road Area

- Combination of excavation and capping (About 9,500cy)
- Incorporates Coastal Resiliency
- Expect to issue ROD in December
- Start cleanup in 2025



Operable Unit 9

- 94-acres including the former Stratford Landfill (northern ~30 acres) and Short Beach Park (southern ~64-acres).
- Remedial Investigation (RI) activities including portions of Short Beach Park, Stratford Landfill and the Marine Basin
 - Investigation includes geophysics, borings/wells, landfill gas survey, conductivity testing, tidal study, ecological evaluation, etc.
 - Remedial Investigation report, Feasibility Study report, Proposed Plan and Record of Decision.
- Anticipated Schedule:
 - Cleared and completed surface geophysics in October.
 - Data collection underway now through ~May 2024.



Overall Raymark Schedule

- OU6
 - Nov to Jan 2024: Blasius dealership and EPA office/former ski shop
 - Winter/Spring: Third Ave and Blue Goose
 - Jan to June 2024: Lockwood Ave
 - Morgan Francis: 2024 contracting/2025 cleanup
- OU4
 - 2024: Construct cap
 - 2025: OU4 final restoration
 - Complete stormwater pump station
- OU5
 - 2024: Remedial design for cleanup
 - 2025–2026: Contracting/conduct cleanup
- OU7/OU8/OU9
 - 2024-2026: Complete investigations and feasibility studies/issue proposed RODs



Next CAG Meeting January 31st 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