



Connecticut Department of Energy and Environmental Protection License*

Structures, Dredging & Fill and Tidal Wetlands Permit Section 401 Water Quality Certification

Licensee(s): City of Milford

Licensee Address(s): 70 West River Street
Milford, CT 06460

License Number(s): 202309149-SDFTWQ

Municipality: Milford

Project Description: Modify and upgrade stormwater drainage systems for flood and erosion control

Project Address/Location: Fowler Park - 1 Shipyard Lane

Waters: Milford Harbor

Authorizing CT Statute(s) and/or Federal Law: CGS Section 22a-359 to 363g; Section 401 CWA (33 USC 1341);
CGS Section 22a-28 to 35; CGS Section 22a-90 to 112

Applicable Regulations of CT State Agencies: 22a-426-1 to 9, 22a-426-1 to 9

Agency Contact: Land & Water Resources Division,
Bureau of Water Protection & Land Reuse, 860-424-3019

License Expiration: Five (5) years from the date of issuance of this license.

Project Site Plan Set: 15 sheets of plans prepared by Silver, Petrucelli & Associates dated September 25, 2023 of which sheets C100, C101, C400, C401 and C800 were revised February 19, 2024, and the cover sheet and sheets C500, C501, C502, C601-1, C601-1E, C601-4R, C601-4RE, C601-5, and C601-SE were revised March 8, 2024.

*Connecticut's Uniform Administrative Procedure Act defines License to include, "the whole or part of any agency permit, certificate, approval, registration, charter or similar form of permission required by law . . ."

License Enclosures: LWRD General Conditions; Site Plan Set; Land Record Filing;
LWRD Work Commencement Form; LWRD Compliance
Certification Form

Authorized Activities:

The Licensee is hereby authorized to conduct the following work as described in application # 202309149-SDFTWQ and as depicted on any site plan sheets / sets cited herein:

1. Stormwater outfall #1 – Retain an existing 24” diameter CMP outfall and replace it with an outfall comprising:
 - a. a 24” diameter RCP extending approximately 10.2’ waterward of the coastal jurisdiction line with an invert elevation of 0.0’ NAVD88 and placed atop a 6” layer of bedding stone;
 - b. a 2’ wide by 2’ high by 3’ long concrete foundation;
 - c. a 4.5’ wide by 13’ long stone riprap anti-scour pad; and
 - d. approximately 2.85 CY of riprap bank stabilization.
2. Stormwater outfall #2 - Remove a 12” diameter PVC pipe having an invert elevation of 4.5’ NAVD88 and fill the void with soil and seed.
3. Stormwater outfall #3 - Retain an existing 18” RCP having an invert elevation of 1.8’ NAVD88 and add a backflow preventer.
4. Stormwater outfall #4 - Abandon in place and disconnect an existing 15” diameter RCP.
5. Stormwater outfall #4R - Construct a new stormwater outfall comprising:
 - a. a 30” diameter RCP extending approximately 8.1’ waterward of the coastal jurisdiction line with an invert elevation of - 1.0’ NAVD88 and placed atop a 6” layer of bedding stone;
 - b. a 2’ wide by 2’ high by 3.75’ long concrete foundation;
 - c. a 7’ wide by 18’ long stone riprap anti-scour pad; and
 - d. approximately 2.4 CY of riprap bank stabilization.
6. Stormwater outfall #5 – Retain an existing 24” diameter RCP having an invert elevation of -3.4’ NAVD88 and clean out the end of the pipe and surrounding area by removing approximately 2-3 cubic yards of sediment.
7. Stormwater outfall #6 – Retain a 12” diameter HDPE stormwater outfall.

Failure to comply with the terms and conditions of this license shall subject the Licensee and / or the Licensee’s contractor(s) to enforcement actions and penalties as provided by law.

This license is subject to the following Terms and Conditions:

1. **License Enclosure(s) and Conditions.** The Licensee shall comply with all applicable terms and conditions as may be stipulated within the License Enclosure(s) listed above.

2. **Height of Tide Restriction.** All work authorized herein shall be conducted during periods of lower water to minimize turbidity and sedimentation.
3. **Turbidity Curtain.** Prior to the commencement of work authorized in Paragraphs 1 & 5 of the Authorized Activities herein, the Licensee shall install turbidity curtains extending from the water surface to the substrate around the work area. Such erosion and sediment control structures shall be maintained in optimal operating condition until project completion at which time the erosion and sediment controls shall be removed to an upland location.
4. **Water Quality Protection.** The Licensee shall install, regularly inspect, maintain, and replace as necessary, catch basin filter inserts or an equally effective alternative device as approved in writing by the Commissioner in each of the catch basins identified on sheet C501. Maintenance shall include removing and disposing of properly, accumulated sediment, trash, and organic debris from each filter. Within 45 days of the completion of work authorized herein, the Licensee shall submit documentation demonstrating that the filters have been installed.
5. **Tidal Wetlands Mitigation Plan Submission.** At least 45 days prior to the commencement of work, the Licensee shall submit a Tidal Wetland Mitigation Plan (Plan) for the Commissioner’s review and written approval. Such plan shall propose a minimum 3:1 mitigation ratio for any wetlands impacted by construction and fill activities. Mitigation shall be completed within the approved timeframe.
6. **Tidal Wetlands Mitigation Activities.** The Licensee shall initiate the Plan approved by the Commissioner as required in Paragraph 5. of the Terms and Conditions herein the year following the completion of construction of the Authorized Activities approved herein and maintain and mointor the tidal wetlands plantings for a minimum of three years in accordance with the provisions of the Plan.

Issued under the authority of the Commissioner of Energy and Environmental Protection on:

Date

Emma Cimino
Deputy Commissioner
Department of Energy & Environmental Protection

LWRD General Conditions

- 1. Land Record Filing (for Structures Dredging & Fill, Tidal Wetlands, Certificate of Permission, and Long Island Sound General Permit Licenses only).** The Licensee shall file the Land Record Filing on the land records of the municipality in which the subject property is located not later than thirty (30) days after license issuance pursuant to Connecticut General Statutes (CGS) Section 22a-363g. A copy of the Notice with a stamp or other such proof of filing with the municipality shall be submitted to DEEP.LWRDRegulatory@ct.gov no later than sixty (60) days after license issuance. If a Land Record Filing form is not enclosed and the work site is not associated with an upland property, no filing is required.
- 2. Contractor Notification.** The Licensee shall give a copy of the license and its attachments to the contractor(s) who will be carrying out the authorized activities prior to the start of construction and shall receive a written receipt for such copy, signed and dated by such contractor(s). The Licensee's contractor(s) shall conduct all operations at the site in full compliance with the license and, to the extent provided by law, may be held liable for any violation of the terms and conditions of the license. At the work site, the contractor(s) shall, whenever work is being performed, have on site and make available for inspection a copy of the license and the authorized plans.
- 3. Work Commencement¹.** Not later than two (2) weeks prior to the commencement of any work authorized herein, the Licensee shall submit to DEEP.LWRDRegulatory@ct.gov, on the Work Commencement Form attached hereto, the name(s) and address(es) of all contractor(s) employed to conduct such work and the expected date for commencement and completion of such work, if any.
 - For water diversion activities authorized pursuant to 22a-377(c)-1 of the Regulations of Connecticut State Agencies, the Licensee shall also notify the Commissioner in writing two weeks prior to initiating the authorized diversion.
 - For emergency activities authorized pursuant Connecticut General Statutes Section 22a-6k, the Licensee shall notify the Commissioner, in writing, of activity commencement at least one (1) day prior to construction and of activity completion no later than five (5) days after conclusion.
- 4. For Coastal Licenses Only - License Notice.** The Licensee shall post the first page of the License in a conspicuous place at the work area while the work authorized therein is undertaken.
- 5. Unauthorized Activities.** Except as specifically authorized, no equipment or material, including but not limited to, fill, construction materials, excavated material or debris, shall be

¹ The Work Commencement condition and the need for a Work Commencement Form is not applicable to Flood Management Certification approvals.

deposited, placed or stored in any wetland or watercourse on or off-site. The Licensee may not conduct work within wetlands or watercourses other than as specifically authorized, unless otherwise authorized in writing by the Commissioner. Tidal wetlands means “wetland” as defined by section 22a-29 and “freshwater wetlands and watercourses” means “wetlands” and “watercourses” as defined by section 22a-38.

- 6. Management of Materials.** Any materials removed from the site shall be managed in accordance with all federal, state, and local requirements, including Chapter 446K Water Pollution Control, Chapter 445 Hazardous Waste, and Chapter 446d Solid Waste of the Connecticut General Statutes.
- 7. Unconfined Instream Work.** Unless otherwise noted in a condition of the license, the following conditions apply to projects in non-coastal waters:

 - Unconfined instream work is limited to the period June 1 through September 30.
 - Confinement of a work area by cofferdam techniques using sand bag placement, sheet pile installation (vibratory method only), portadam, or similar confinement devices is allowed any time of the year. The removal of such confinement devices is allowed any time of the year.
 - Once a work area has been confined, in-water work within the confined area is allowed any time of the year.
 - The confinement technique used shall completely isolate and protect the confined area from all flowing water. The use of silt boom/curtain or similar technique as a means for confinement is prohibited.
- 8. For State Actions Only - Material or Equipment Storage in the Floodplain.** Unless approved by a Flood Management Exemption, the storage of any materials at the site which are buoyant, hazardous, flammable, explosive, soluble, expansive, radioactive, or which could in the event of a flood be injurious to human, animal or plant life, below the elevation of the five-hundred (500) year flood is prohibited. Any other material or equipment stored at the site below said elevation by the Licensee or the Licensee's contractor must be firmly anchored, restrained or enclosed to prevent flotation. The quantity of fuel stored below such elevation for equipment used at the site shall not exceed the quantity of fuel that is expected to be used by such equipment in one day. In accordance with the licensee's Flood Contingency Plan, the Licensee shall remove equipment and materials from the floodplain during periods when flood warnings have been issued or are anticipated by a responsible federal, state or local agency. It shall be the Licensee's responsibility to obtain such warnings when flooding is anticipated.
- 9. Temporary Hydraulic Facilities for Water Handling.** If not reviewed and approved as a part of the license application, temporary hydraulic facilities shall be designed by a qualified professional and in accordance with the *Connecticut Guidelines for Soil Erosion and Sediment Control*, the *2004 Connecticut Stormwater Quality Manual*, or the *Department of Transportation's ConnDOT Drainage Manual*, as applicable. Temporary hydraulic facilities may include channels, culverts or bridges which are required for haul roads, channel relocations, culvert installations, bridge construction, temporary roads, or detours.

- 10. Excavated Materials.** Unless otherwise authorized, all excavated material shall be staged and managed in a manner which prevents additional impacts to wetlands and watercourses.
- 11. Best Management Practices.** The Licensee shall not cause or allow pollution of any wetlands or watercourses, including pollution resulting from sedimentation and erosion. In constructing or maintaining any authorized structure or facility or conducting any authorized activity, or in removing any such structure or facility, the Licensee shall employ best management practices to control storm water discharges, to prevent erosion and sedimentation, and to otherwise prevent pollution of wetlands and other waters of the State. For purposes of the license, “pollution” means “pollution” as that term is defined by CGS section 22a-423. Best Management Practices include, but are not limited, to practices identified in the *Connecticut Guidelines for Soil Erosion and Sediment Control* as revised, *2004 Connecticut Stormwater Quality Manual*, Department of Transportation’s *ConnDOT Drainage Manual* as revised, and the Department of Transportation Standard Specifications as revised.
- 12. In-Water Work Vessel Staging and Storage. (for Structures Dredging & Fill, Tidal Wetlands, Certificate of Permission, and Long Island Sound General Permit Licenses only).** For any barge, vessel, skiff or floating work platform (“work vessels”) utilized in the execution of the work authorized herein, the Licensee shall ensure that such work vessels:
- do not rest on, or come in contact with, the substrate at any time, unless specifically authorized in the license.
 - are not stored over intertidal flats, submerged aquatic vegetation or tidal wetland vegetation or in a location that interferes with navigation. In the event any work vessel is grounded, no dragging or prop dredging shall occur to free it.
- 13. Work Site Restoration.** Upon completion of any authorized work, the Licensee shall restore all areas impacted by construction, or used as a staging area or accessway in connection with such work, to their condition prior to the commencement of such work.
- 14. Inspection.** The Licensee shall allow any representative of the Commissioner to inspect the project location at reasonable times to ensure that work is being or has been conducted in accordance with the terms and conditions of this license.
- 15. Change of Use. (Applies only if a use is specified within the License “Project Description”)**
- a. The work specified in the license is authorized solely for the purpose set forth in the license. No change in purpose or use of the authorized work or facilities as set forth in the license may occur without the prior written approval of the Commissioner. The Licensee shall, prior to undertaking or allowing any change in use or purpose from that which is authorized by this license, request permission from the Commissioner for such change. Said request shall be in writing and shall describe the proposed change and the reason for the change.
 - b. A change in the form of ownership of any structure authorized herein from a rental/lease commercial marina to a wholly-owned common interest community or dockominium may constitute a change in purpose as specified in paragraph (a) above.
- 16. De Minimis Alteration.** The Licensee shall not deviate from the authorized activity without

prior written approval from the Commissioner. The Licensee may request a de minimis change to any authorized structure, facility, or activity. A de minimis alteration means a change in the authorized design, construction or operation that individually and cumulatively has minimal additional environmental impact and does not substantively alter the project as authorized.

- For diversion activities authorized pursuant to 22a-377(c)-2 of the Regulations of Connecticut State Agencies, a de minimis alteration means an alteration which does not significantly increase the quantity of water diverted or significantly change the capacity to divert water.

17. Extension Request. The Licensee may request an extension of the license expiration date. Such request shall be in writing and shall be submitted to DEEP.LWRDRegulatory@ct.gov at least thirty (30) days prior to the license expiration. Such request shall describe the work done to date, what work still needs to be completed, and the reason for such extension. The Commissioner may extend the expiration date of this license for a period of up to one year, in order for the Licensee to complete the authorized activities. It shall be at the Commissioner's sole discretion to grant or deny such request. No more than three (3) one-year extensions will be granted under this license.

18. Compliance Certification. Not later than 90 days after completion of the authorized work, the Licensee shall prepare and submit to DEEP.LWRDRegulatory@ct.gov, the attached Compliance Certification Form. Such Compliance Certification shall be completed, signed, and sealed by the Licensee and a Connecticut Licensed Design Professional. If non-compliance is indicated on the form, or the Commissioner has reason to believe the activities and/or structures were conducted in non-compliance with the license, the Commissioner may require the Licensee to submit as-built plans as a condition of this license.

19. Maintenance. The Licensee shall maintain all authorized structures or work in optimal condition or shall remove such structures or facility and restore the affected waters to their pre-work condition. Any such maintenance or removal activity shall be conducted in accordance with applicable law and any additional approvals required by law.

20. No Work After License Expiration. Work conducted after the license expiration date is a violation of the license and may subject the licensee to enforcement action, including penalties, as provided by law.

21. License Transfer. The license is not transferable without prior written authorization of the Commissioner. A request to transfer a license shall be submitted in writing and shall describe the proposed transfer and the reason for such transfer. The Licensee's obligations under the license shall not be affected by the passage of title to the license site to any other person or municipality until such time as a transfer is approved by the Commissioner.

22. Document Submission. Any document required to be submitted to the Commissioner under the license or any contact required to be made with the Commissioner shall, unless otherwise specified in writing by the Commissioner, be directed to:

DEEP.LWRDRegulatory@ct.gov or

Regulatory Section
Land & Water Resources Division
Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106-5127
860-424-3019

- 23. Date of Document Submission.** The date of submission to the Commissioner of any document required by the license shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under the license, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three (3) days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in the license, the word “day” as used in the license means calendar day. Any document or action which is required by the license to be submitted or performed by a date which falls on a Saturday, Sunday or a Connecticut or federal holiday shall be submitted or performed on or before the next day which is not a Saturday, Sunday, or a Connecticut or federal holiday.
- 24. Certification of Documents.** Any document, including but not limited to any notice, which is required to be submitted to the Commissioner under the license shall be signed by the Licensee and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows: “I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense.”
- 25. Accuracy of Documentation.** In evaluating the application for the license, the Commissioner has relied on information and data provided by the Licensee and on the Licensee’s representations concerning site conditions, design specifications and the proposed work, including but not limited to representations concerning the commercial, public or private nature of the work or structures, the water-dependency of said work or structures, its availability for access by the general public, and the ownership of regulated structures or filled areas. If such information proves to be false, deceptive, incomplete or inaccurate, the license may be modified, suspended or revoked, and any unauthorized activities may be subject to enforcement action.
- 26. Limits of Liability.** In granting the license, the Commissioner has relied on all representations of the Licensee, including information and data provided in support of the Licensee’s application. Neither the Licensee’s representations nor the issuance of the license shall constitute an assurance by the Commissioner as to the structural integrity, the engineering feasibility or the efficacy of such design.
- 27. Reporting of Violations.** In the event that the Licensee becomes aware that they did not or may not comply, or did not or may not comply on time, with any provision of this license or of any document incorporated into the license, the Licensee shall immediately notify the

agency contact specified within the license and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. In so notifying the agency contact, the Licensee shall provide, for the agency's review and written approval, a report including the following information:

- a. the provision(s) of the license that has been violated;
- b. the date and time the violation(s) was first observed and by whom;
- c. the cause of the violation(s), if known;
- d. if the violation(s) has ceased, the duration of the violation(s) and the exact date(s) and times(s) it was corrected;
- e. if the violation(s) has not ceased, the anticipated date when it will be corrected;
- f. steps taken and steps planned to prevent a reoccurrence of the violation(s) and the date(s) such steps were implemented or will be implemented; and
- g. the signatures of the Licensee and of the individual(s) responsible for actually preparing such report.

If the violation occurs outside of normal business hours, the Licensee shall contact the Department of Energy and Environmental Protection Emergency Dispatch at 860-424-3333. The Licensee shall comply with any dates which may be approved in writing by the Commissioner.

- 28. Revocation/Suspension/Modification.** The license may be revoked, suspended, or modified in accordance with applicable law.
- 29. Other Required Approvals.** License issuance does not relieve the Licensee of their obligations to obtain any other approvals required by applicable federal, state and local law.
- 30. Rights.** The license is subject to and does not derogate any present or future property rights or powers of the State of Connecticut, and conveys no property rights in real estate or material nor any exclusive privileges, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the property or activity affected hereby.
- 31. Condition Conflicts.** In the case where a project specific special condition listed on the license differs from, or conflicts with, one of the general conditions listed herein, the project specific special condition language shall prevail. It is the licensee's responsibility to contact the agency contact person listed on the license for clarification if needed prior to conducting any further regulated activities.

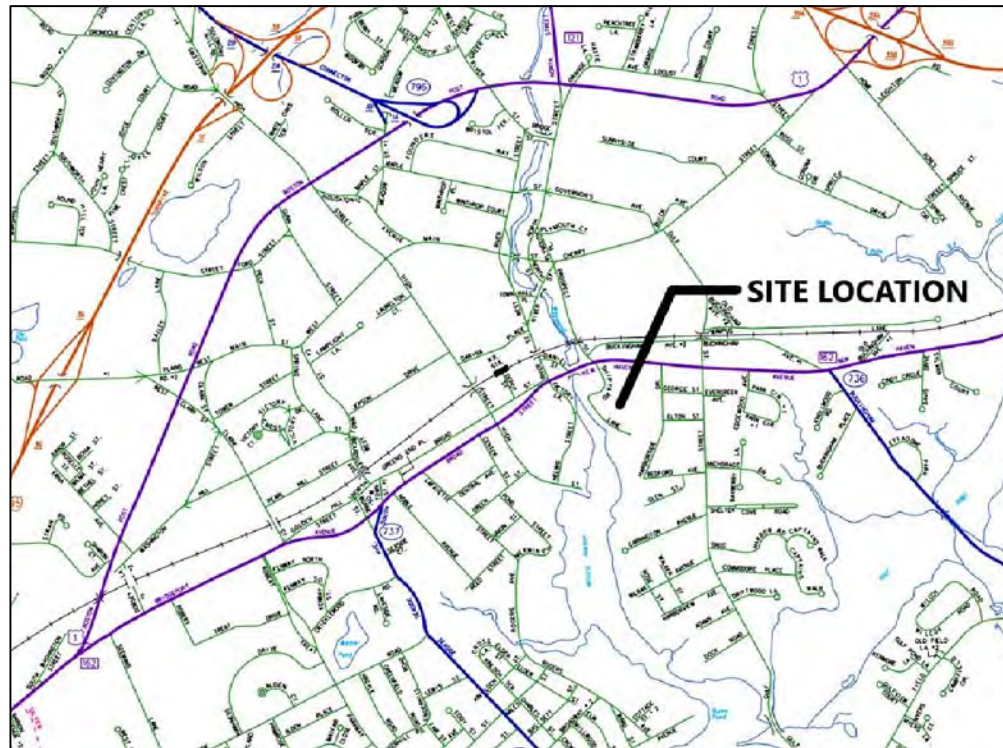
PROJECT TITLE:

CITY OF MILFORD

FOUNDER'S WALK, Phase 2B

SHIPYARD LANE
MILFORD, CONNECTICUT 06460

PROJECT LOCATION:



ARCHITECT

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE, HAMDEN CT 06518
311 STATE STREET NEW LONDON, CT 06320
PHONE 203 230 9007 silverpetrucelli.com

CIVIL ENGINEER

DONALD W. SMITH, JR., P.E.
56 GREENWOOD CIRCLE, SEYMOUR CT 06483
PHONE 203 888 4904

LANDSCAPE ARCHITECT

STEPHEN WING LANDSCAPE ARCHITECTURE
26 CROWN STREET, MILFORD, CT 06460
PHONE 203 874 6474

ELECTRICAL ENGINEER

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE, HAMDEN CT 06518
311 STATE STREET NEW LONDON, CT 06320
PHONE 203 230 9007 silverpetrucelli.com

DRAWING LIST

COVER SHEET

DATE: 11/13/13 RVSN DATE: 3/8/24

CIVIL:

- SS 1 TOPOGRAPHIC SURVEY - OVERALL PLAN
- SS 2 TOPOGRAPHIC SURVEY - PARTIAL PLAN
- SS 3 OVERALL PROPERTY PLAN
- SS 4 LISTING OF PROPERTY ABUTTERS

6/21/23 DRAWING IS ON-FILE AND NOT PART OF THIS SUBMITTAL
 6/21/23 DRAWING IS ON-FILE AND NOT PART OF THIS SUBMITTAL
 9/25/23 DRAWING IS ON-FILE AND NOT PART OF THIS SUBMITTAL
 9/25/23 DRAWING IS ON-FILE AND NOT PART OF THIS SUBMITTAL

- C100 OVERALL SITE PLAN
- C101 PHASING PLAN
- C400 EROSION CONTROL PLAN
- C401 EROSION CONTROL DETAILS
- C500 OVERALL DRAINAGE PLAN
- C501 GRADING, DRAINAGE & UTILITY PLAN -NORTH
- C502 GRADING, DRAINAGE & UTILITY PLAN -SOUTH
- C601-1 STORM. OUTFALL #1 PLAN & PROFILE
- C601-1E EXIST. STORM. OUTFALL #1 PLAN & PROFILE
- C601-4R STORM. OUTFALL #4 PLAN & PROFILE
- C601-4RE EXIST. STORM. OUTFALL #4 PLAN & PROFILE
- C601-5 STORM. OUTFALL #5 PLAN & PROFILE
- C601-5E EXIST. STORM. OUTFALL #5 PLAN & PROFILE
- C601-M MITIGATION PLAN
- C800 DETAILS

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 9/25/23 2/19/24



Donald W. Smith, Jr.



SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

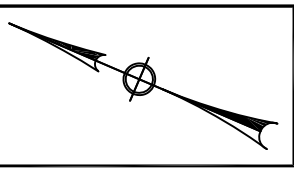
DONALD W. SMITH, JR., P.E.

CONSULTING ENGINEER
56 GREENWOOD CIRCLE SEYMOUR, CT 06483
Tel. 203-888-4904 Fax 203-881-3434 dwsjrpe@sbcglobal.net

Stephen Wing, Landscape Architect, ASLA

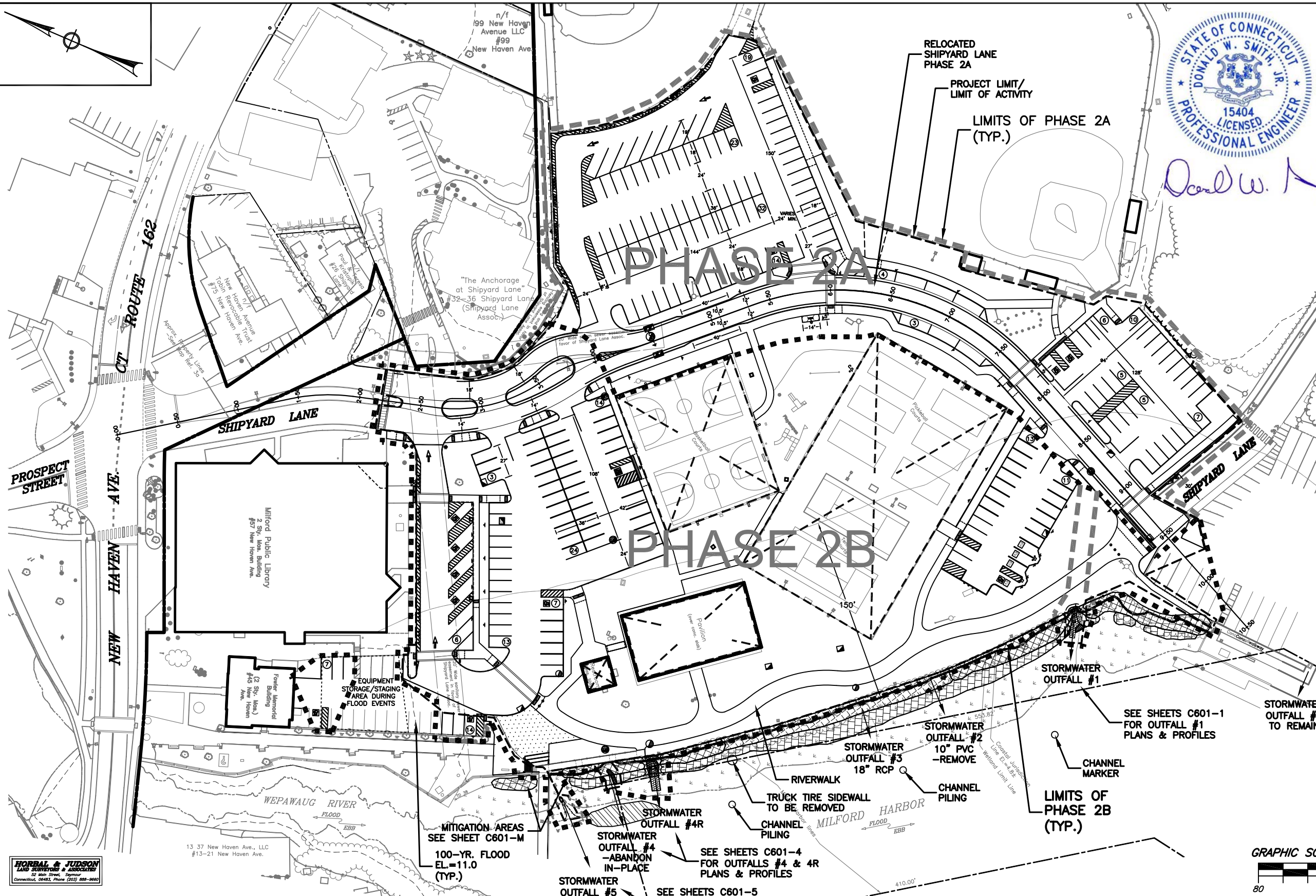
26 Crown Street, Milford, Ct. 06460-06411
(203) 874-6474 swla@optonline.net

CTDEEP APPLICATION: 3/8/24
STRUCTURES, DREDGING & FILL - TIDAL WETLANDS



NOTES:

- Base Map provided by Horbal & Judson Land Surveyors & Associates, 52 Main Street, Seymour, Connecticut (203)888-9660. This survey (map) has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 as revised 10-26-2018 and the Standards for Surveys and Maps in the State of Connecticut as adopted by the Connecticut Association of Land Surveyors, Inc; It is a Topographic Survey conforming to Class T-3 standards. Photogrammetric mapping prepared by Golden Aerial Surveys, Inc. from imagery flown March 29, 2023 at 3cm GSD and meets National Map Accuracy Standards for Class 1 20 scale mapping with a 1' contour interval. Ground control and survey data conducted by Horbal & Judson Land Surveyors conforms to Horizontal Accuracy Class A-2 and Vertical Accuracy Class V-2 standards.
- Property lines depicted are not the result of a field survey and do not present a boundary opinion of Horbal and Judson, Land Surveyors & Associates. Property lines should be considered approximate and conform to Horizontal Accuracy Class D standards (not a field survey) and were compiled from other maps, record research or other sources of information. Property lines are not to be construed as having been obtained as the result of a field survey, and are subject to such change as an accurate field survey may disclose. Additionally, limited title research was performed for this survey, parcels may be subject to easements, rights of others, transfers, and other rights of record that may exist.
- Street lines depicted at the intersection of Shipyard Lane and New Haven Avenue are for informational purposes only and must be considered approximate. Research of Connecticut Department of Transportation and City of Milford records revealed inconsistencies with the exact location of said lines.
- Elevations are based upon the 1988 North American Vertical Datum and coordinates are based on Connecticut State Plane 1983 North American Datum and were established by GPS control utilizing City of Milford Benchmarks #88-03 & 88-23 and CTGS monuments #172 & 5978.
- Reference Maps:
 - Maps entitled: "Topographic Survey - Overall Plan, & Topographic Survey - Partial Plan, prepared for City of Milford, Founders' Walk, Shipyard Lane & New Haven Avenue, Milford, Connecticut," Sheets: SS1 & SS2, Scale: 1"=80' & 1"=50', Dated: 6/21/2023, by Horbal & Judson Land Surveyors & Associates, 52 Main Street, Seymour, Connecticut (203)888-9660.
- Wetland boundary depicted along the Wepawaug River/Milford Harbor was field delineated on June 12, 2023 by Soil Science and Environmental Services, Inc. and was located by field survey.
- Portions of project area are within a Special Flood Hazard Area, Zone AE (EI=11) per National Flood Insurance Program, Flood Insurance Rate Map, New Haven County, Connecticut; Panel 531 of 635; Map Number 09009C0531K; Version 2.3.3.2.; Revised date: May 16, 2017.
- All utilities are not shown. Subsurface utilities were compiled from parole evidence, record drawings, and surficial evidence located during the field survey. The surveyor has not physically exposed the subsurface utilities and makes no guarantee that the subsurface utilities depicted hereon comprise all such utilities within the surveyed area, either in service or abandoned. The surveyor further does not warrant or guarantee that the subsurface utilities are in the exact location depicted. Any contractors are required to utilize "Call before you dig" one call system 1-800-922-4455 prior to any excavation for the purpose of verifying the subsurface utilities in the area.



LEGEND

Mon. Monument	CL&P. Connecticut Light & Power	R.L. Ridge Line
Iron Pipe	Utility Pole w/ number	Found.
1" dia. pipe	Utility pole with guy wire	Now or Formerly
1/2" dia. pipe	Manhole	Chain Line Fence w/ height
Approx. Property Line - see Ref. Map	Water Catch Basin or Low Inlet	P.V.C. Polyvinyl Chloride Pipe
Approx. Adjoined Property Line - see Ref. Map	Water Gate Valve	R.C.P. Reinforced Concrete Pipe
Prop. Property Line	Light Post	H.D.P.P. High Density Plastic Pipe
Prop. Adjoined Property Line	Chim. Out.	C.M.P. Corrugated Metal Pipe
Prop. Right of Way	Gas Gate Valve	The Pipe
Prop. Easement	Stone masonry pillar w/ light	Iron Storm Pipe
Prop. Easement	Guide Rail	Elevation
Prop. Easement	Gas Service Lateral	Altitude
Prop. Easement	Water Service Lateral	Concrete
Prop. Easement	Sanitary Sewer Lateral	Masonry
Prop. Easement	Detectable warning mat	Masonry
Prop. Easement	1/8" chance floodplain boundary	Stormhouse Concrete Lip Curb
Prop. Easement	Concrete Walkway	Concrete Curb
Prop. Easement	Exist. spot elevation	Invert Elevation
Prop. Easement	Exist. elevation contour	Metal Storm Rail
Prop. Easement	Prop. spot elevation	Typical
Prop. Easement	Prop. elevation contour	Existing
Prop. Easement	Prop. curbing	Landscaping Bed
Prop. Easement	Prop. curbing	Classroom
Prop. Easement	Prop. curbing	Classroom
Prop. Easement	Prop. curbing	Flash Conditions
Prop. Easement	Prop. curbing	Sign
Prop. Easement	Prop. curbing	Detachable warning
Prop. Easement	Prop. curbing	100-yr. Flood EL=11.0

PARKING SPACE SUMMARY

	REG.	HC	EV	BOAT TRAILER	TOTAL
EXIST.	233	8	2	0	243
PROP.	229	14*	4	0	246

BOAT LAUNCH AREA

	REG.	HC	EV	TOTAL
EXIST.	14	1	0	36
PROP.	14	1	0	36

*PROP. HC SPACES INCLUDE 11 REG., 2 VAN & 1 EV.

TIDAL WETLAND VEGETATION LEGEND

	TYPE 1 - predominantly <i>Spartina alterniflora</i>
	TYPE 2A - predominantly <i>Phragmites australis</i>
	TYPE 2B - predominantly <i>Iva frutescens</i>
	SUBMERGED AQUATIC VEGETATION - apparently <i>Gracilaria</i> sp.

SEE SHEET 601 FOR DETAILS

PHASING LEGEND

	PHASE 2A
	PHASE 2B
	NO WORK AREA

REVISIONS

NO.	DESCRIPTION	DATE
1	Phase 2B only	11/13/23
2	DEEP comments	2/2/24
3	SW outfalls 1, 4 & 5	2/19/24

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers

3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
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DONALD W. SMITH, JR., P.E.
CONSULTING ENGINEER
56 GREENWOOD CIRCLE SEYMOUR, CT 06483
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OVERALL SITE PLAN

CITY OF MILFORD
PHASE 2B FOUNDER'S WALK
FOWLER FIELD/WILCOX PARK
SHIPYARD LANE
MILFORD, CONNECTICUT

Job No. 23-05
Scale: 1"=80'
Date: 9/25/23
Designed: D.W.S.
Drawn: K.D.K.
Sheet: C100

GENERAL CONSTRUCTION SEQUENCE:

The anticipated time of completion for the Phase 2B improvements is approximately 12 months from the initial start date, following completion of Phase 2A. Construction is expected to start in the fall of 2024 and be completed by the fall of 2025.

Prior to any on-site activity, the Contractor shall be responsible for holding a pre-construction meeting with the design team and appropriate City officials and for notifying "Call Before You Dig" (1-800-922-4455) of the proposed project. (Estimated Time: 3 days)

The general sequence of work will be as follows:

PHASE 2A:

STORM DRAINAGE OUTFALL #1, RELOCATED SHIPYARD LANE, RECONSTRUCT EAST AND SOUTH PARKING LOTS

1. Stakeout limits of relocated Shipyard Lane and reconstructed parking lots, saw cut and remove the designated portions of bituminous concrete pavement and dispose off-site. (Estimated Time: 5 days)

2. Install construction entrances, silt fence and other erosion control measures as shown on plans and as directed by the "Engineer". Maintain all erosion and sediment control measures in an effective condition throughout the construction phase. (Estimated Time: 1 day)

3. Strip and stockpile topsoil from limits of relocated Shipyard Lane and expanded parking lots. Install silt fence around perimeter of stockpile areas and temporarily seed. (Estimated Time: 5 days)

4. Reclaim bituminous pavement in East and South Parking lots (Estimated Time: 5 days)

5. Commence rough grading of relocated Shipyard Lane and expanded East and South parking lots. Stabilize all cut and fill slopes as soon as practical after formation. (Estimated Time: 2 weeks)

6. Install new drainage Outfall #1. Install new drainage system in the East Parking lot and at Sta. 4+50 Shipyard Lane and make temporary connection to existing 15" RCP. Install new drainage system at Sta. 8+71 in Shipyard Lane with stub out for future CB. (Estimated Time: 4 weeks)

7. Complete "boxing out" of relocated Shipyard Lane and East and South parking lots. Form shoulders and prepare subgrade for gravel base. (Estimated Time: 2 weeks)

8. Install concrete curbing and sidewalks along the relocated Shipyard Lane and in the East and South parking lots. (Estimated Time: 4 weeks)

9. Install gravel and processed aggregate base courses in the relocated Shipyard Lane and East and South parking lots. (Estimated Time: 10 days)

10. Install bituminous concrete pavement in the relocated Shipyard Lane and East and South parking lots. (Estimated Time: 1 week)

11. Install pavement markings and signage in the relocated Shipyard Lane and East and South parking lots. (Estimated Time: 1 week)

PHASE 2B:

STORM DRAINAGE OUTFALLS, NEW RIVERWALK, RECONSTRUCT WEST AND SOUTHWEST PARKING LOTS AND THE LIBRARY DRIVEWAY

REQUIRES CT DEEP STRUCTURES, DREDGING & FILL PERMIT.

1. Stakeout limits of new construction, saw cut and remove the designated portions of concrete sidewalks and bituminous concrete pavement and legally dispose off-site. Remove storm drainage Outfall #2. (Estimated Time: 2 days)

2. Install construction entrance, silt fence and other erosion control measures as shown on plans and as directed by the "Engineer". Maintain all erosion and sediment control measures in an effective condition throughout the construction phase. (Estimated Time: 1 day)

3. Clear designated trees and grub stumps from proposed development area and legally dispose of all grubbed materials. (Estimated Time: 1 day)

4. Commence rough grading of the Riverwalk, West and Southwest parking lots and Library driveway. Stabilize all cut and fill slopes as soon as practical after formation. (Estimated Time: 1 week)

5. Modify Outfall #3, install new drainage systems #3 and #4 and in the West Parking lot, and tie into MH at Sta. 4+50. Clean sediment at Outfall #5. Install new drainage system in the Southwest Parking lot and tie into to MH at Sta. 8+71. Install new drainage structures in the Library Driveway. (Estimated Time: 4 weeks)

6. Complete "boxing out" of Riverwalk, West and Southwest parking lots and Library driveway, form shoulders and prepare subgrade for gravel base. (Estimated Time: 2 weeks)

7. Install lighting conduits, foundations, wire and Light posts along Riverwalk. (Estimated Time: 2 weeks)

8. Install concrete curbing and sidewalks in the West and Southwest parking lots and Library driveway. Install Concrete Riverwalk. (Estimated Time: 4 weeks)

9. Install gravel and processed aggregate base courses in West and Southwest parking lots and Library driveway. (Estimated Time: 10 days)

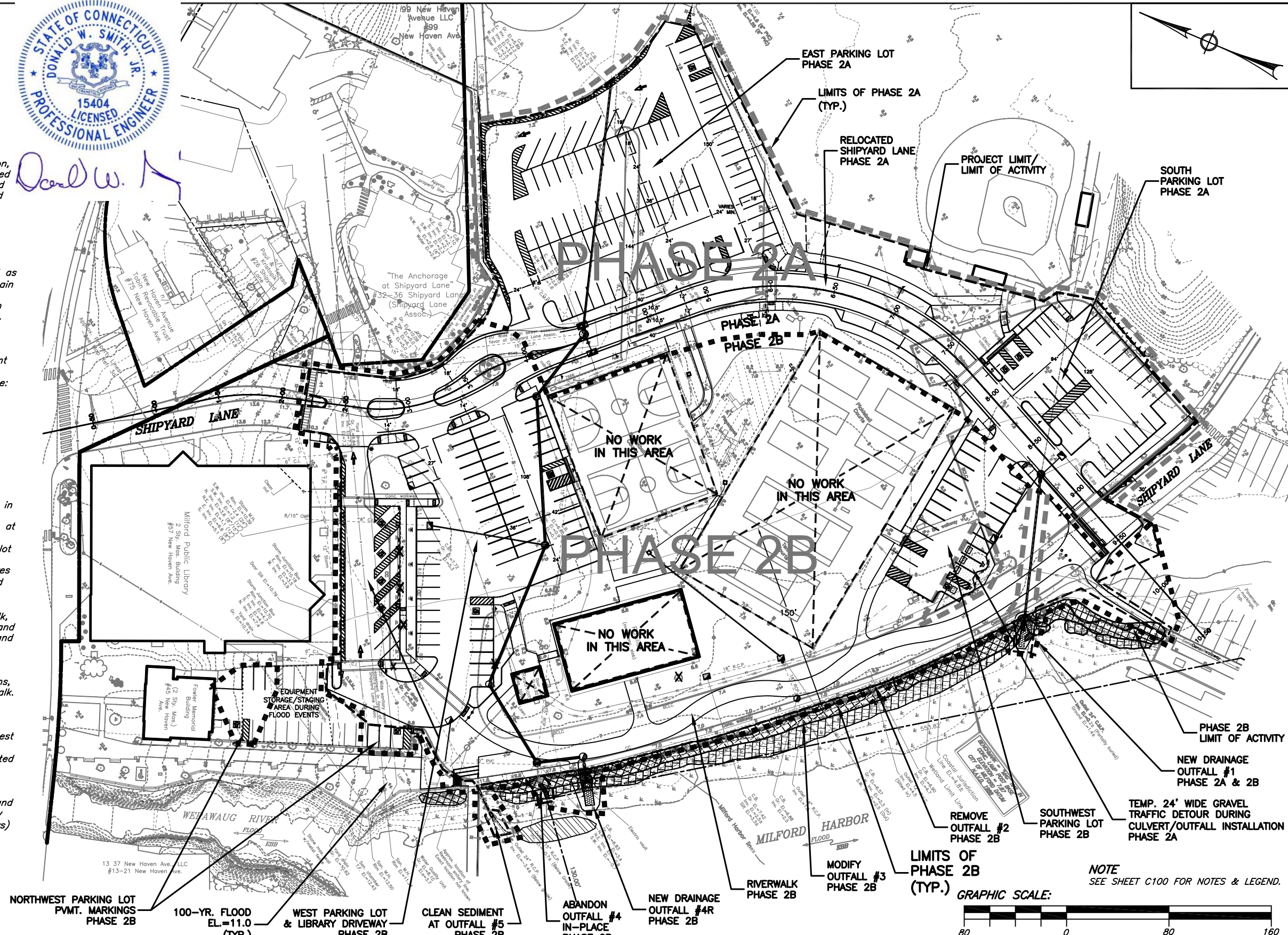
10. Install bituminous concrete pavement in West and Southwest parking lots and Library driveway. (Estimated Time: 1 week)

11. Remove designated pavement markings and install parking and traffic markings and signage. (Estimated Time: 1 week)

12. Install landscape plantings and complete loaming and seeding of grass areas and all remaining disturbed areas as soon as practical. (Estimated Time: 10 days)



Donald W. Smith, Jr.



LEGEND

- — — — — PHASE 2A
- ■ ■ ■ ■ PHASE 2B
- - - - - NO WORK AREA

REVISIONS		
NO.	DESCRIPTION	DATE
1	Phase 2B only	11/13/23
2	DEEP comments	2/2/24
3	SW outfalls 1, 4 & 5	2/19/24

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers

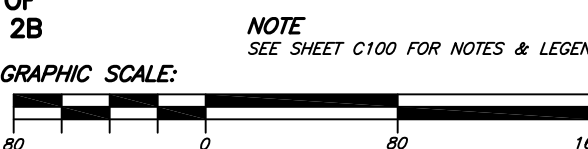
3190 Whitney Avenue, Hamden, CT 06518-2340
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DONALD W. SMITH, JR., P.E.
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PHASING PLAN

CITY OF MILFORD
PHASE 2B FOUNDER'S WALK
FOWLER FIELD/WILCOX PARK
SHIPYARD LANE
MILFORD, CONNECTICUT

Job No. 23-05
Scale: 1"=80'
Date: 9/25/23
Designed: D.W.S.
Drawn: K.D.K.
Sheet: C101



NOTE: SEE SHEET C100 FOR NOTES & LEGEND.

A. NARRATIVE:

The project involves the relocation of approximately 615 LF of Shipyard Lane and the reconstruction and realignment of the various parking areas in the Fowler Field Recreation Complex. The construction also includes the construction of an approximately 550 foot long concrete walkway in the area of the abandoned portion of Shipyard Lane. The Project also includes the modification and improvement of the associated storm drainage systems and the various outfalls into the Wepawaug River at the head of Milford Harbor. The subject Parcel encompasses approximately 24.8 ac. per the City's Assessors Map, however, the project site is limited to approximately 5 ac. with the total disturbed area of approximately 4.5 ac. The Site is located on the South side of New Haven Avenue opposite Prospect Street.

The Post-Construction runoff coefficient for the site is estimated at 0.48.

The local soil types are as follows:

WETLAND SOILS

Aq Aquents— This is a poorly to very poorly drained, disturbed soil where two or more feet of the original soil surface has been altered by filling, excavation and/or grading. Aquents are characterized by a seasonal to prolonged high groundwater table (near the ground surface) and are capable of supporting hydrophytic plants.

98 Westbrook mucky peat (Terrie Sulfhemists)— This is a deep, very poorly drained, peats and mucks, organic soil that developed over loamy mineral materials. Depth of the peats and mucks is 16 to 51 inches. Westbrook mucky peat soils occur in estuaries near mouths of rivers or major streams or in salt marshes which are subject to tidal inundation twice daily and they are generally strongly saline.

NON-WETLAND SOILS

38 Hinckley gravelly sandy loam (Typic Udorthents)— This is a deep, excessively drained, gravelly sandy textured soil that developed over sandy and gravelly, glacial outwash derived from schist, gneiss and granite. Hinckley soils occur in valleys, outwash plains, terraces, kames and eskers landforms.

306 Udorthents—Urban land complex This map unit consists of extensive areas where soils have been disturbed from land development along with large areas of impervious surfaces associated with streets, parking lots, buildings and other structures.

307 Urban land This map unit consists of land which is mostly covered with streets, parking lots, buildings and other structures. Generally, more than 75% of the map unit consists of impervious surface.

308 Udorthents, smoothed This is a well drained to moderately well drained soil area that has had two or more feet of the original soil surface altered by filling, excavation or grading activities. Udorthents, smoothed soils commonly occur on leveled land and fill landforms.

Note: On June 12, 2023, SS&ES, Inc. conducted a site inspection on the property to identify any regulated wetlands or watercourses existing on-site. Scott Stevens, Registered Professional Soil Scientist and Jennifer Beno, Biologist/Wetland Scientist performed the inspection. A tidally influenced portion of the Wepawaug River, which is a perennial watercourse, exists along the western to southwestern side of the property. SS&ES inspected the site at low tide. The tidal wetland line was determined based on tidal wetland plants identified and physical markings of the tidal wrackline observed. Tidal wetland species identified along the tidal wetland boundary included common reed grass, high tide bush, saltwater cordgrass, poison ivy and seaside goldenrod. The soils within the tidal wetland were classified as a complex of Aquents and Westbrook mucky peat. The Coastal Jurisdiction Line (CJL) for Milford has been established at elevation 4.7' along Long Island Sound.

B. DESIGN CRITERIA:

- Erosion and sedimentation control measures have been located with consideration given to slopes, wetlands, and watercourses, and in accordance with the Connecticut "Guidelines for Soil Erosion and Sediment Control", of the Connecticut Council of Soil and Water Conservation, Latest Edition.
- Temporary sediment traps are located throughout the project site where initial earth disturbance and ground shaping will be performed. These sediment basins have been sized in accordance with the "Guidelines for Soil and Sediment Control". All sediment traps/basins shall provide a minimum of 134 cubic yards of water storage per acre drained and shall be maintained until final stabilization of the contributing area.

C. INSTALLATION AND/OR APPLICATION PROCEDURES:

- Erosion and sedimentation control devices shall be constructed in accordance with the project plans and specifications.

D. OPERATION, MAINTENANCE PROGRAM, INSPECTIONS:

- Prior to any construction, a pre construction conference is to be held among the Design Engineer, the Owners, the Contractor, the Town Engineer, the Wetlands Enforcement Officer, and the Zoning Enforcement Officer to review the erosion and sedimentation control measures to be taken. The contractor shall be responsible for arranging the pre construction conference.
- All revisions after approval has been granted shall be forwarded to the appropriate commissions and the City Engineer.
- The City's zoning & wetlands departments shall receive written notification seventy-two hours before the start of any construction.
- All erosion control measures associated with the construction are to be installed and maintained in accordance with the schedule and requirements. Additional control measures shall be installed during the construction period as necessary and required.
- All soil erosion and sediment control measures must be installed before any construction activities.
- Filter fabric/silt fence will be installed along the toe of all critical cut and fill slopes.
- Sediment removed from control measures must be disposed of at a location approved by the design engineer that will not cause additional sedimentation to the surrounding area.

- Qualified personnel (provided by the contractor) shall inspect disturbed areas of the construction activity that have not been finally stabilized, structure control measures, and locations where vehicles enter or exit the site at least once every seven (7) calendar days within 24 hours of the end of a storm that is 0.1 inches or greater. Where sites have been stabilized, such inspection shall be conducted at least once every month for three (3) months.
- Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.
- Based on the results of this inspection, the description of potential sources and pollution prevention measures identified in the plan shall be revised as appropriate or as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the plan within three (3) calendar days following the inspection. The plan shall be revised and the site controls updated in accordance with sound engineering practices, the Guideline and Subsections (4) and (6) (c) i 3) of the Storm Water General Permit.

E. BEST MANAGEMENT PRACTICES:

- Construction shall proceed in accordance with the requirements of the general sequence of grading and construction activities, application of erosion and sediment control measures, and final stabilization of site as indicated on the plans.
- Refueling of equipment or machinery within twenty-five (25) feet of any wetland or watercourse shall be allowed only by direction of the Engineer.
- No materials resulting from construction activities shall be placed in or contribute to the degradation of an adjacent wetland or watercourse. Disposal of any material shall be in accordance with Connecticut General Statutes including, but not limited to, Sections 22A-207 through 22A-209.
- When dewatering is necessary, pumps shall not discharge directly into the wetlands or watercourse. Prior to dewatering the contractor must submit to the Engineer a written proposal for specific methods and devices to be used, and obtain the Engineer's approval of such method and devices to be used for dewatering activities including, but not limited to, pumping the water into a temporary sedimentation trap, providing surge protection at the inlet and outlet of pumps or floating the intake of the pump, or other methods to minimize and retain the suspended solids. If the Engineer determines that the pump operation is causing turbidity problems, said operation shall cease until such time as means of controlling turbidity is submitted by the contractor and approved by the Engineer and implemented by the contractor.
- Dumping of oil, chemicals, or other deleterious materials on the ground is forbidden. The contractor shall provide a means of catching, retaining and properly disposing of drained oil, removed oil filters, or other deleterious material. All spills of such materials shall be reported immediately by the contractor to the DEP.
- Application of Herbicides or Pesticides must be done by a Connecticut licensed applicator. The contractor shall submit to the Engineer the proposed Applicator's name and license number, and must receive the Engineer's approval of the proposed applicator before such application is carried out.

F. SOIL STABILIZATION MEASURES:

- All topsoil not to be used for final grading/landscaped areas shall be removed from the site immediately, in accordance with applicable State and Local laws. Topsoil to be used in landscaped areas shall be stored/stockpiled in accordance with applicable State and Local laws.
- All areas within 500 feet of an inhabited dwelling shall be wetted as necessary to provide dust control.
- Sediment disposal areas and topsoil stockpiles not scheduled for construction activities within thirty (30) days shall be stabilized as follows:
 - Ground limestone at a rate of 135 lbs. per 1,000 s.f.
 - Fertilizer at a rate of 14 lbs. per 1,000 s.f. using a 10-20-10 analysis or an equivalent.
 - Annual rye grass seeding applied at a rate of not less than 1 lb. per 1,000 s.f.
 - Mulch all newly seeded areas with 80 lbs. of salt hay or small grain straw per 1,000 s.f.
- All disturbed areas are to be provided with at least 4" of topsoil before final seeding.
- Permanent vegetation is to be seeded or sodded on all exposed areas within ten (10) days after final grading. Mulching as necessary for seed protection and establishment. Lime and fertilizer before permanent seeding.
- Permanent vegetation:

A. Materials specifications for lawn areas:				
(i) Soil: A minimum of 4" topsoil				
(ii) Lime: 36 lbs. of ground limestone per 1,000 s.f.				
(iii) Fertilizer: 14 lbs. per 1,000 s.f. using a 10-20-10 analysis or an equivalent.				
(iv) Seed: Permanent Vegetation - Lawn				
Proportion by weight	Common Name	Germ	Pure seed	Weed
45%	Kentucky Bluegrass	80	85	0.50
45%	Creeping Red Fescue	85	98	0.50
10%	Perennial Rye	90	98	0.50

G. RESPONSIBLE PARTIES:

- _____
- Site Contractor (to be determined).

is assigned the responsibility for implementing the control measures of this plan. This responsibility includes the installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of this plan, and notifying the Planning and Zoning Commission of the transfer of responsibility, and for conveying a copy of this plan if title to the property is transferred.

H. TEMPORARY SEDIMENT TRAP CONSTRUCTION NOTES:

- Clear, grub and strip any vegetation and root mat from any proposed embankment and outlet area.
- Remove stones and rocks whose diameter is greater than 3 inches and other debris.
- Excavate wet storage and construct the embankment and/or outlet as needed to attain the necessary storage requirements.
- Use only fill material for the embankment that is free from excessive organics, debris, large rocks (over 6 inches) or other unsuitable materials.
- Compact the embankment in 9-inch layers by traversing with equipment while it is being constructed.
- Stabilize the earth embankment using any of the following measures: Temporary Seeding, Permanent Seeding, or Stone Slope Protection immediately after installation.

I. TEMPORARY SEDIMENT TRAP MAINTENANCE NOTES:

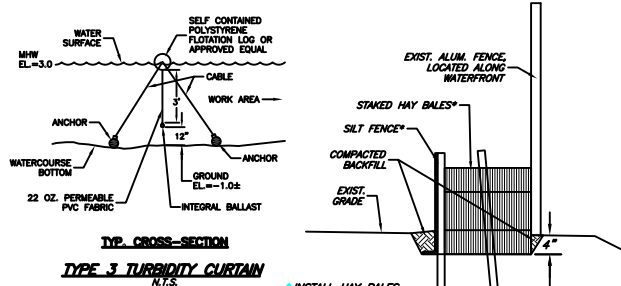
- Inspect the temporary sediment trap at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater.
- Check the outlet to ensure that it is structurally sound and has not been damaged by erosion or construction equipment.
- The height of the stone outlet should be maintained at least 1 foot below the crest of the embankment.
- Also check for sediment accumulation and filtration performance.
- When sediments have accumulated to one half the minimum required volume of the wet storage, dewater the trap as needed, remove sediments and restore the trap to its original dimensions. Dispose of the sediment removed from the basin in a suitable area and in such a manner that it will not erode and cause sedimentation problems.
- The temporary sediment trap may be removed after the contributing drainage area is stabilized.

J. GENERAL CONSTRUCTION SEQUENCE:

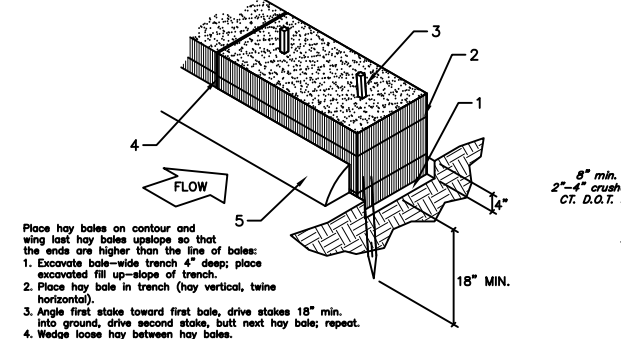
See Sheet C101 for general construction sequence and project phasing.

K. BEST MANAGEMENT PRACTICES REQUIRED FOR PROTECTION OF NORTHERN DIAMONDBACK TERRAPIN:

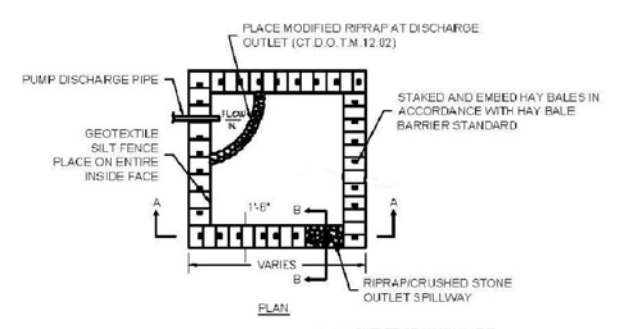
- Work that is confined to the upland can be conducted without risk to Northern diamondback terrapin between October 1- April 30.
- In the event that upland construction cannot be completed during the winter months, for work performed between May 1-September 30, the following protection measures and Best Management Practices shall apply:
 - Silt Fencing should be installed around the upland work area, including staging and stockpiling areas, prior to commencement of construction and will be inspected daily.
 - A visual inspection should be conducted once silt fencing is in-place and prior to start of any work activity to locate any potential turtles.
 - All work personnel will be notified to be alert for the potential presence of the turtles and will be provided with a description of the species. Any turtle that may be discovered will be carefully moved, without harm, to a location outside the work area, and positioned in the same orientation that it had been moving. NO turtles will be removed or relocated from the area.
 - No vehicles or machinery should be parked in any identified turtle habitat that is unfenced.
 - Take special care to avoid harm to basking or foraging individuals during any work conducted in the early morning and evening hours.
 - Report any observations of these turtles to our DEEP-NDDB Program at deep.nddbrequest@ct.gov as soon as possible.
- To protect hibernating Northern diamondback terrapin conduct your ground disturbance that will affect the bottoms and sides of tidal creeks within salt marshes during the active season (April 1-October 31). This will allow the turtle to move out of harms way. Additionally:
 - Ensure construction activities will not create a barrier to turtle movements. No channels should be completely blocked to passage.
 - The work crew must be made aware of the species description and possible presence.
 - The immediate area where heavy equipment will be used each day should be searched for turtles before starting work using mechanical equipment.
 - Any turtles found during the construction should be moved out of the way. This animal is protected by law and should never be taken off site.
 - Work conducted during early morning and evening hours should occur with special care not to harm basking individuals.



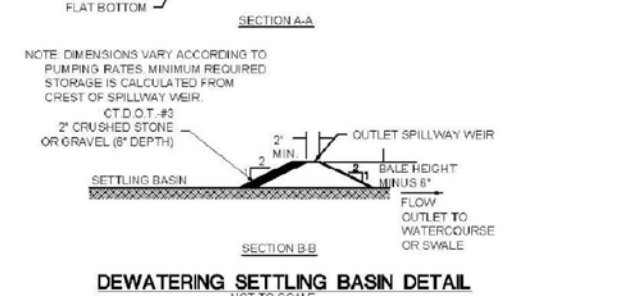
SILT FENCE & STAKED HAY BALES AT WATERFRONT FENCE
N.T.S.



STAKED HAY BALES
N.T.S.



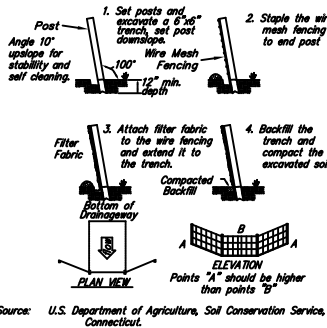
DEWATERING SETTLING BASIN DETAIL
NOT TO SCALE



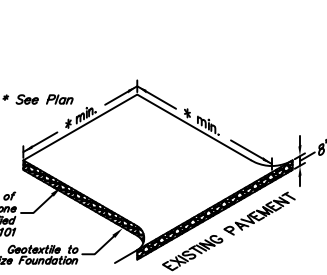
DEWATERING PLAN

- IF DEWATERING IS NECESSARY DURING CONSTRUCTION A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS FOLLOWS:
- THE PUMP INLET WILL BE WRAPPED IN FILTER FABRIC AND PLACED IN CRUSHED STONE WITHIN THE TRENCH.
 - THE PUMP OUTLET WILL DISCHARGE TO THE DEWATERING ENCLOSURE PER THE DETAIL FOR DEWATERING SETTLING BASIN TO BE LOCATED OUTSIDE OF THE 100' UPLAND REVIEW ZONE.
 - THE DISCHARGE FROM THE DEWATERING ENCLOSURE WILL BE MONITORED AND ADDITIONAL MEASURES EMPLOYED IF NECESSARY.

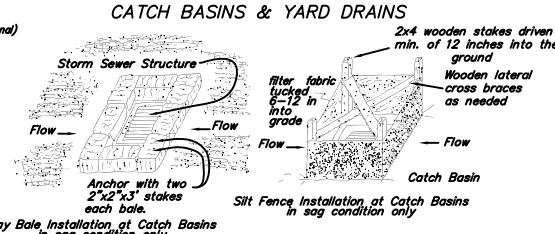
REVISIONS		
NO.	DESCRIPTION	DATE
1	Phase 2B only	11/13/23
3	Silt fence & staked hay bales detail	2/19/24



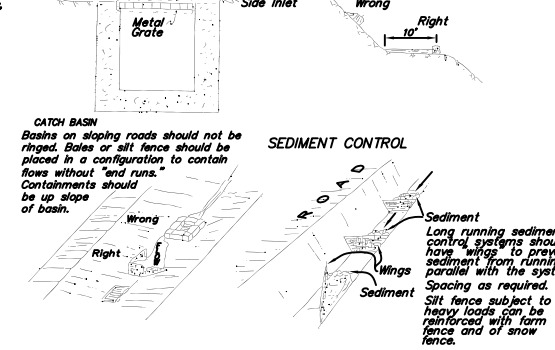
PLACEMENT AND CONSTRUCTION OF A SYNTHETIC FILTER BARRIER
N.T.S.



CONSTRUCTION ENTRANCE ANTI-TRACKING PAD
N.T.S.



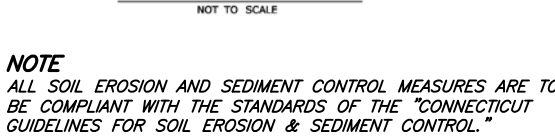
CATCH BASINS & YARD DRAINS



PLACEMENT OF CONTROL MEASURES AT CATCH BASINS & YARD DRAINS
N.T.S.

NOTES

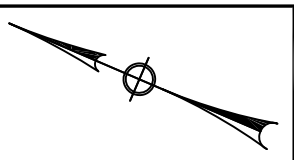
- CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO CONCRETE LAYOUT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY F-CONTAINED.
- THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF CONCRETE WASHOUT AREA(S) WITH THE PROJECT'S EROSION AND SEDIMENTATION CONTROL PLAN AND SHALL BE APPROVED BY THE ENGINEER.
- CONCRETE WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50 FEET FROM YARD, STREAM, WETLAND, STORM DRAINS, OR OTHER SENSITIVE RESOURCE.
- FLOOD CONTINGENCY PLAN MUST ADDRESS THE CONCRETE WASHOUT IF WASHOUT IS TO BE LOCATED WITHIN THE FLOODPLAIN.
- THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO, OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.
- SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, HAY BALES OR OTHER EROSION MEASURES, AS APPROVED BY THE ENGINEER, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.
- SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE MIXERS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH RED FLAGGING OR OTHER APPROVED METHOD.
- WASHOUT AREA(S) ARE TO BE INSPECTED AT LEAST ONCE A WEEK FOR LACK OF INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR WEARS, TEARS, OR OVERFLOWS. (AS REQUIRED BY THE CONSTRUCTION SITE ENVIRONMENTAL INSPECTION REPORT) WASHOUT AREA(S) SHOULD BE REPAIRED AFTER HEAVY RAINS.
- HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S VOLUME. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY THE ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND ORDINANCES.
- PAYMENT FOR THIS ITEM IS TO BE INCLUDED UNDER THE GENERAL COST FOR THE WORK FOR THE PROJECT, INCLUDING SITE RESTORATION.



CONCRETE WASHOUT AREA
NOT TO SCALE

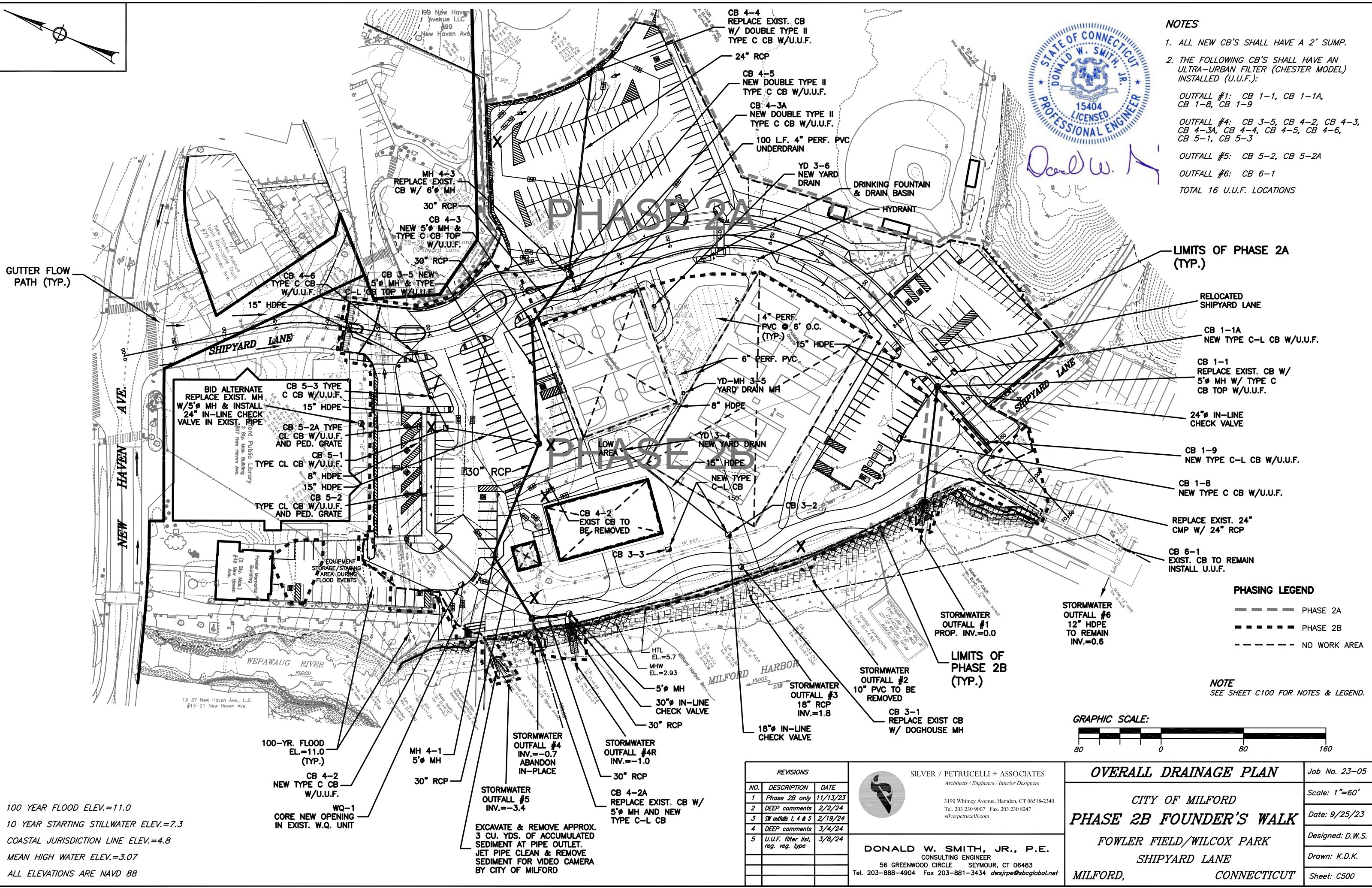
NOTE
ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE COMPLIANT WITH THE STANDARDS OF THE "CONNECTICUT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL."

<p>SILVER / PETRUCELLI + ASSOCIATES Architects / Engineers / Interior Designers</p> <p>3190 Whitney Avenue, Hamden, CT 06518-2340 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucci.com</p>	<p>EROSION CONTROL DETAILS</p> <p>Job No. 23-05</p>
	<p>CITY OF MILFORD</p> <p>PHASE 2B FOUNDER'S WALK</p> <p>FOWLER FIELD/WILCOX PARK</p> <p>SHIPYARD LANE</p> <p>MILFORD, CONNECTICUT</p>
<p>DONALD W. SMITH, JR., P.E.</p> <p>CONSULTING ENGINEER</p> <p>56 GREENWOOD CIRCLE SEYMOUR, CT 06483 Tel. 203-888-4904 Fax 203-881-3434 dwsrpe@sbcglobal.net</p>	<p>Scale: As Noted</p> <p>Date: 9/25/23</p> <p>Designed: D.W.S.</p> <p>Drawn: K.D.K.</p> <p>Sheet: C401</p>



Donald W. Smith

- NOTES**
- ALL NEW CB'S SHALL HAVE A 2' SUMP.
 - THE FOLLOWING CB'S SHALL HAVE AN ULTRA-URBAN FILTER (CHESTER MODEL) INSTALLED (U.U.F.):
- OUTFALL #1: CB 1-1, CB 1-1A, CB 1-8, CB 1-9
- OUTFALL #4: CB 3-5, CB 4-2, CB 4-3, CB 4-3A, CB 4-4, CB 4-5, CB 4-6, CB 5-1, CB 5-3
- OUTFALL #5: CB 5-2, CB 5-2A
- OUTFALL #6: CB 6-1
- TOTAL 16 U.U.F. LOCATIONS



100 YEAR FLOOD ELEV.=11.0
 10 YEAR STARTING STILLWATER ELEV.=7.3
 COASTAL JURISDICTION LINE ELEV.=4.8
 MEAN HIGH WATER ELEV.=3.07
 ALL ELEVATIONS ARE NAVD 88

REVISIONS		
NO.	DESCRIPTION	DATE
1	Phase 2B only	11/13/23
2	DEEP comments	2/2/24
3	SW outfalls 1, 4 & 5	2/19/24
4	DEEP comments	3/4/24
5	U.U.F. filter list, reg. veg. type	3/8/24

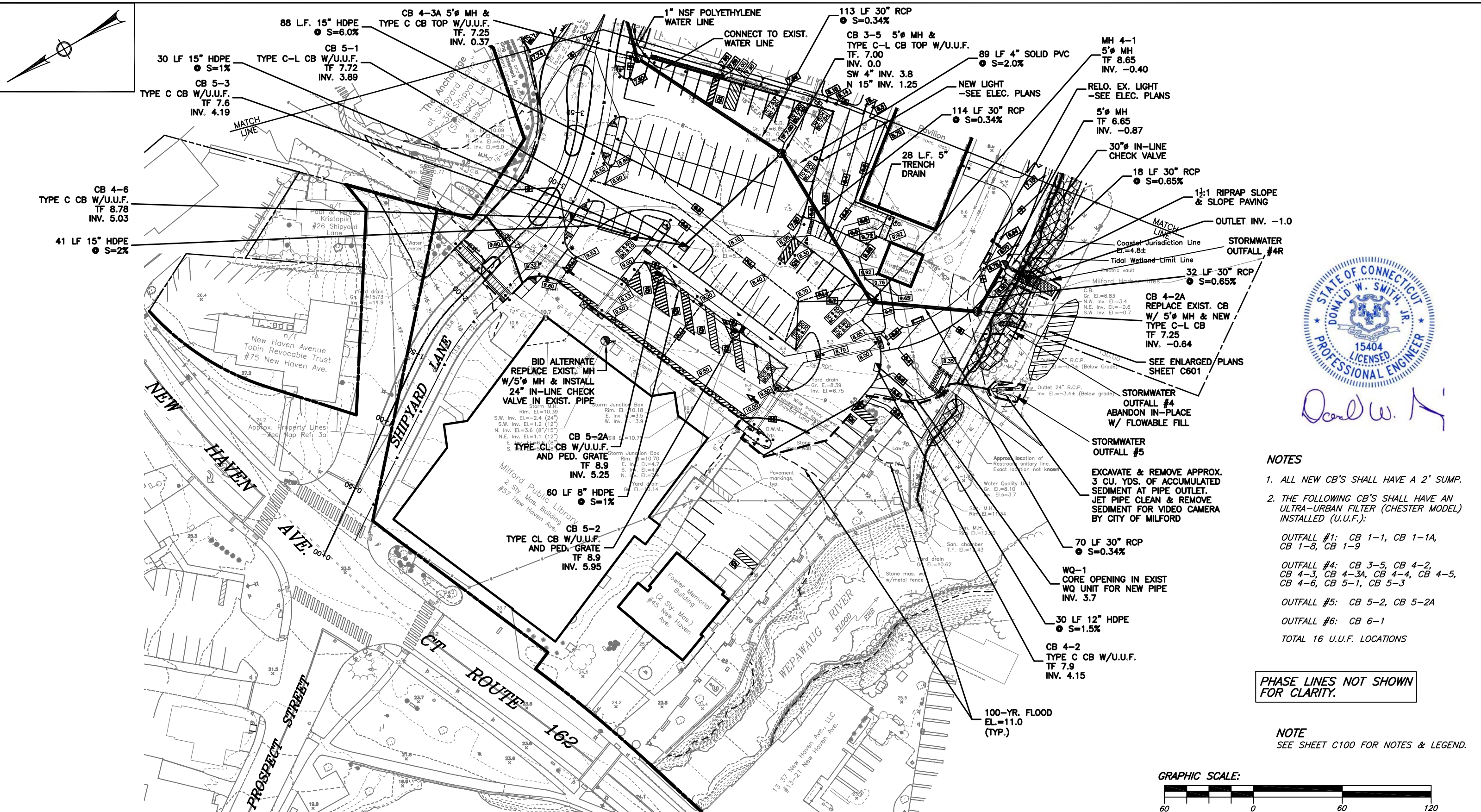
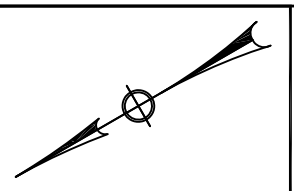
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 Tel. 203-888-4904 Fax 203-881-3434 dwsjrpe@sbcglobal.net

OVERALL DRAINAGE PLAN

CITY OF MILFORD
PHASE 2B FOUNDER'S WALK
 FOWLER FIELD/WILCOX PARK
 SHIPYARD LANE
 MILFORD, CONNECTICUT

Job No. 23-05
 Scale: 1"=60'
 Date: 9/25/23
 Designed: D.W.S.
 Drawn: K.D.K.
 Sheet: C500



Donald W. Smith, Jr.

NOTES

- ALL NEW CB'S SHALL HAVE A 2' SUMP.
 - THE FOLLOWING CB'S SHALL HAVE AN ULTRA-URBAN FILTER (CHESTER MODEL) INSTALLED (U.U.F.):
 - OUTFALL #1: CB 1-1, CB 1-1A, CB 1-8, CB 1-9
 - OUTFALL #4: CB 3-5, CB 4-2, CB 4-3, CB 4-3A, CB 4-4, CB 4-5, CB 4-6, CB 5-1, CB 5-3
 - OUTFALL #5: CB 5-2, CB 5-2A
 - OUTFALL #6: CB 6-1
- TOTAL 16 U.U.F. LOCATIONS

PHASE LINES NOT SHOWN FOR CLARITY.

NOTE
SEE SHEET C100 FOR NOTES & LEGEND.



100 YEAR FLOOD ELEV.=11.0
 10 YEAR STARTING STILLWATER ELEV.=7.3
 COASTAL JURISDICTION LINE ELEV.=4.8
 MEAN HIGH WATER ELEV.=3.07
 ALL ELEVATIONS ARE NAVD 88

REVISIONS		
NO.	DESCRIPTION	DATE
1	Phase 2B only	11/13/23
2	Misc. revisions	12/3/23
3	SW outfalls 1, 4 & 5	2/19/24
4	DEEP comments	3/4/24
5	U.U.F. filter list, reg. veg. type	3/8/24

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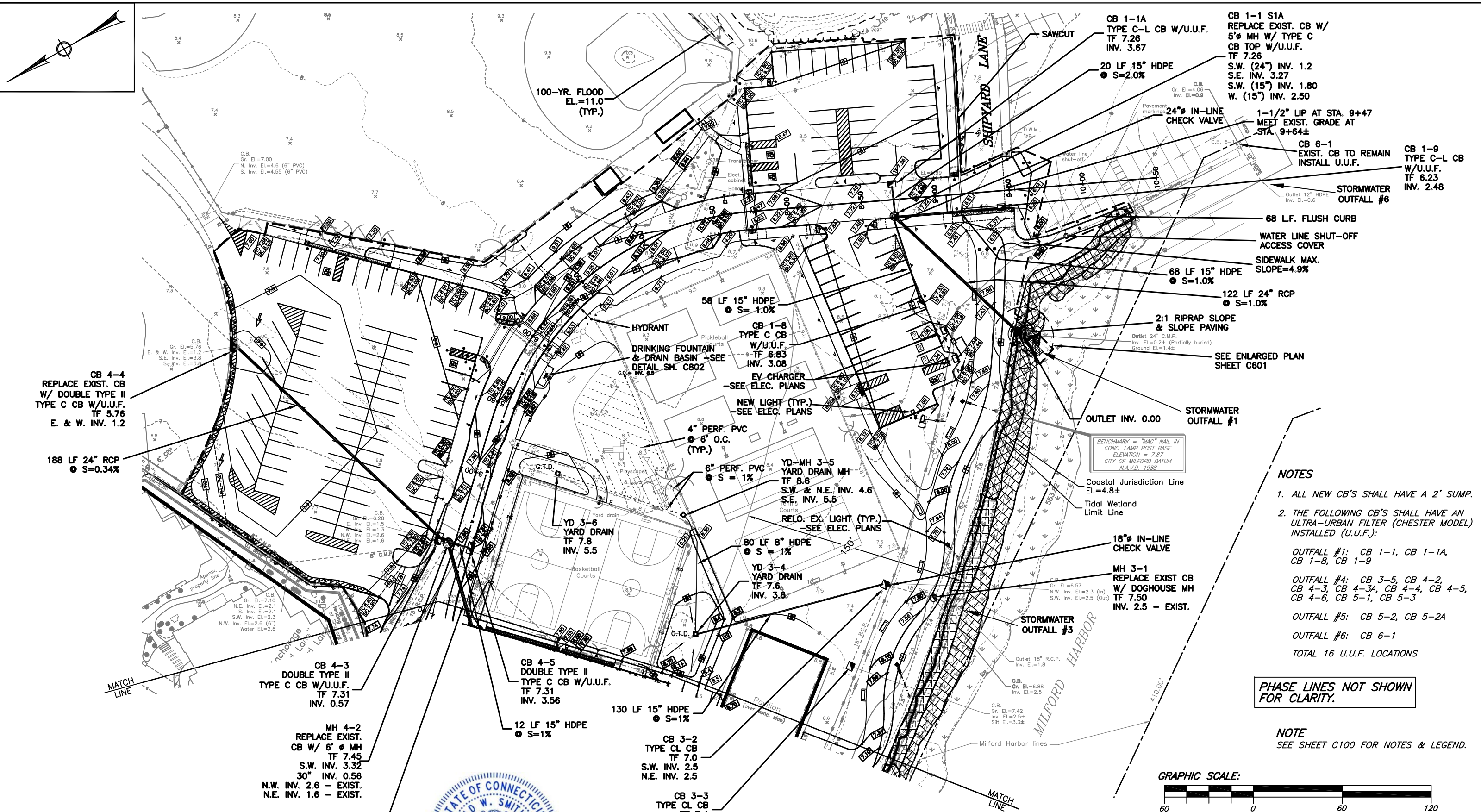
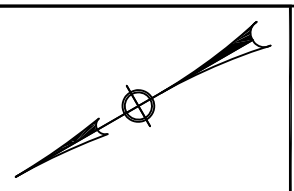
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GRADING, DRAINAGE & UTILITY PLAN -NORTH Job No. 23-05

CITY OF MILFORD
PHASE 2B FOUNDER'S WALK Scale: 1"=60'

FOWLER FIELD/WILCOX PARK Date: 9/25/23
 SHIPYARD LANE Designed: D.W.S.
 MILFORD, CONNECTICUT Drawn: K.D.K.
 Sheet: C501



100 YEAR FLOOD ELEV.=11.0
 10 YEAR STARTING STILLWATER ELEV.=7.3
 COASTAL JURISDICTION LINE ELEV.=4.8
 MEAN HIGH WATER ELEV.=3.07
 ALL ELEVATIONS ARE NAVD 88



Donald W. Smith, Jr.

- NOTES**
- ALL NEW CB'S SHALL HAVE A 2' SUMP.
 - THE FOLLOWING CB'S SHALL HAVE AN ULTRA-URBAN FILTER (CHESTER MODEL) INSTALLED (U.U.F.):
- OUTFALL #1: CB 1-1, CB 1-1A, CB 1-8, CB 1-9
- OUTFALL #4: CB 3-5, CB 4-2, CB 4-3, CB 4-3A, CB 4-4, CB 4-5, CB 4-6, CB 5-1, CB 5-3
- OUTFALL #5: CB 5-2, CB 5-2A
- OUTFALL #6: CB 6-1
- TOTAL 16 U.U.F. LOCATIONS

PHASE LINES NOT SHOWN FOR CLARITY.

NOTE
 SEE SHEET C100 FOR NOTES & LEGEND.



REVISIONS		
NO.	DESCRIPTION	DATE
1	Phase 2B only	11/13/23
2	Misc. revisions	12/3/23
3	SW outfalls 1, 4 & 5	2/19/24
4	DEEP comments	3/4/24
5	U.U.F. filter list, reg. veg. type	3/8/24

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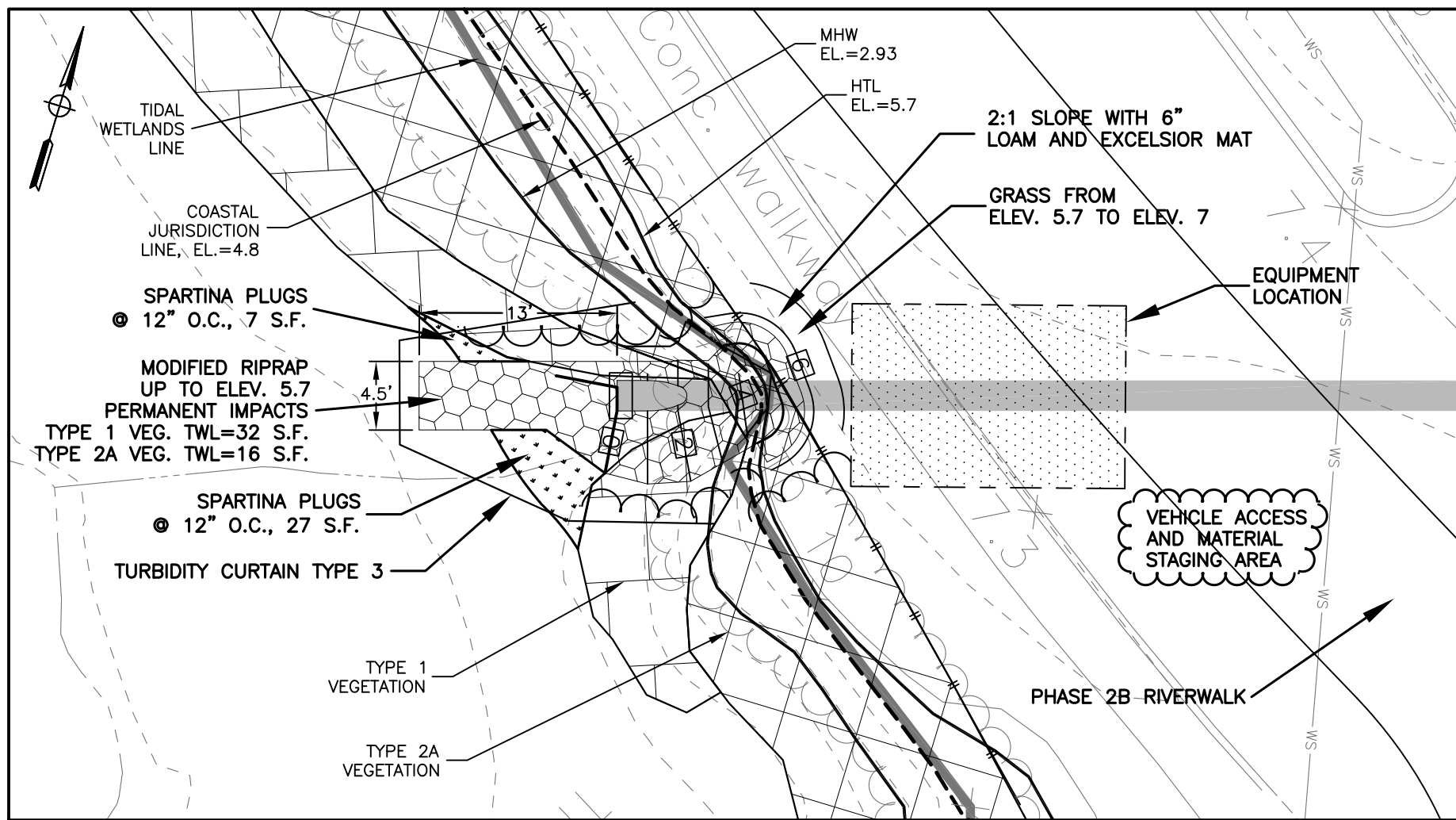
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 Tel. 203-888-4904 Fax 203-881-3434 dwsjrpe@sbcglobal.net

GRADING, DRAINAGE & UTILITY PLAN - SOUTH

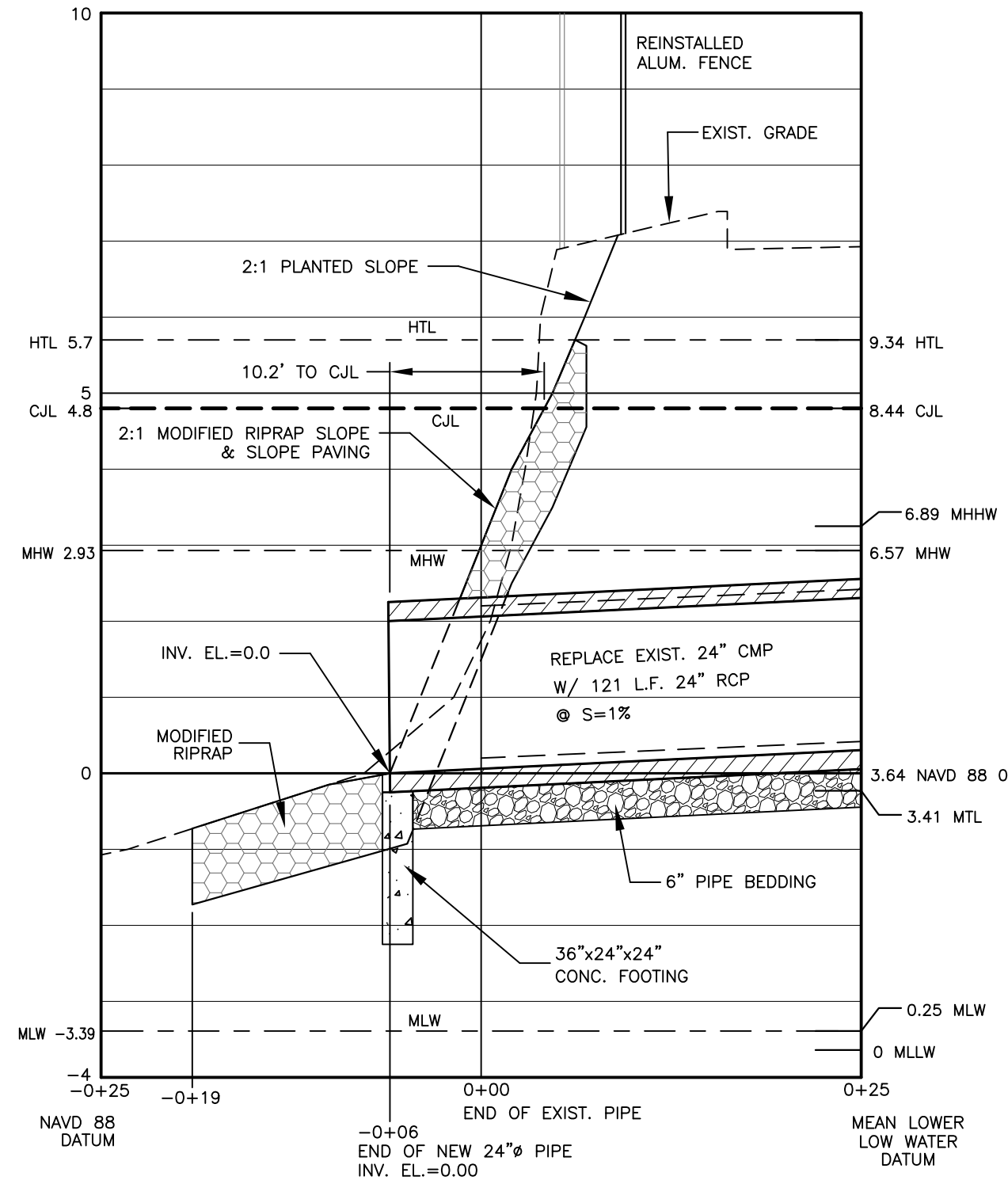
CITY OF MILFORD
PHASE 2B FOUNDER'S WALK

FOWLER FIELD/WILCOX PARK
 SHIPYARD LANE
 MILFORD, CONNECTICUT

Job No. 23-05
 Scale: 1"=60'
 Date: 9/25/23
 Designed: D.W.S.
 Drawn: K.D.K.
 Sheet: C502



STORMWATER OUTFALL #1 PLAN
SCALE: 1"=10'



STORMWATER OUTFALL #1 PROFILE
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=2'

OUTFALL #	WETLAND VEGETATION IMPACT SUMMARY				EARTHWORK (CY)		MITIGATION (SF)		ADJ. NON-TWL AREA
	Type 1	Type 2A	Type 1	Type 2A	CUT	FILL	Type 1	Type 2A	
#1	20	7	32	16	5.5	5.5	34	0	
#2	0	0	0	0	0	0.25	0	0	
#3	0	0	0	0	0	0	0	0	
#4					0	0	30	0	
#4R	38	33	53	40	14.85	11.05	0	0	
#5	0	0	0	0	0	3	0	0	
#6	0	0	0	0	0	0	0	0	
Mitigation Area	0	0	0	0	0	0	0	385	300
TOTAL	58	40	85	56	23.35	16.8	64	385	300
Vol. Phrag Maint. Area	0	0	0	0	0	0	0	185	160

OUTFALL #	RIRPAP QUANTITY SUMMARY	
	APRON (CY)	SLOPE STABILIZATION (CY)
#1	2.15	2.85
#4R	4.67	2.4
	6.82	5.25

REGULATED AREA VEGETATION TYPES & LIMITS PER TIDAL WETLAND VEGETATION REPORT DATED 10/5/23 BY SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.

100 YEAR FLOOD ELEV.=11.0
10 YEAR STARTING STILLWATER ELEV.=7.3
COASTAL JURISDICTION LINE ELEV.=4.8
MEAN HIGH WATER ELEV.=3.07
ALL ELEVATIONS ARE NAVD 88

REGULATED AREA VEGETATION TYPES

Type 1 vegetation occurs at the lower elevations of the tidal wetland and is dominated by *Spartina alterniflora* (saltwater cordgrass).

Type 2 occurs at a higher elevation between Type 1 and the existing fence and was broken down into two areas based on dominant vegetation.

Type 2A is dominated by *Phragmites australis* (common reedgrass) with some seaside goldenrod, hightide bush, and poison ivy.

Type 2B is dominated by *Iva frutescens* (hightide bush) with poison ivy and seaside goldenrod. At the upper edge, or fence side, of Types 2, I observed several upland species including mugwort, common mullein, Virginia creeper, bindweed, pokeweed, crab apple and cherry trees, tree of heaven saplings, multiflora rose, grape, and bittersweet.

Gracilaria/Red Algae was observed growing within the channel downstream of the pedestrian bridge.



Donald W. Smith, Jr.

GRAPHIC SCALE:



NOTE
SEE SHEET C100 FOR NOTES & LEGEND.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Phase 2B only	12/4/23
2	DEEP comments	2/2/24
3	SW outfalls 1, 4 & 5	2/19/24
4	DEEP comments	3/4/24
5	U.I.F. filter list, reg. veg. type	3/8/24

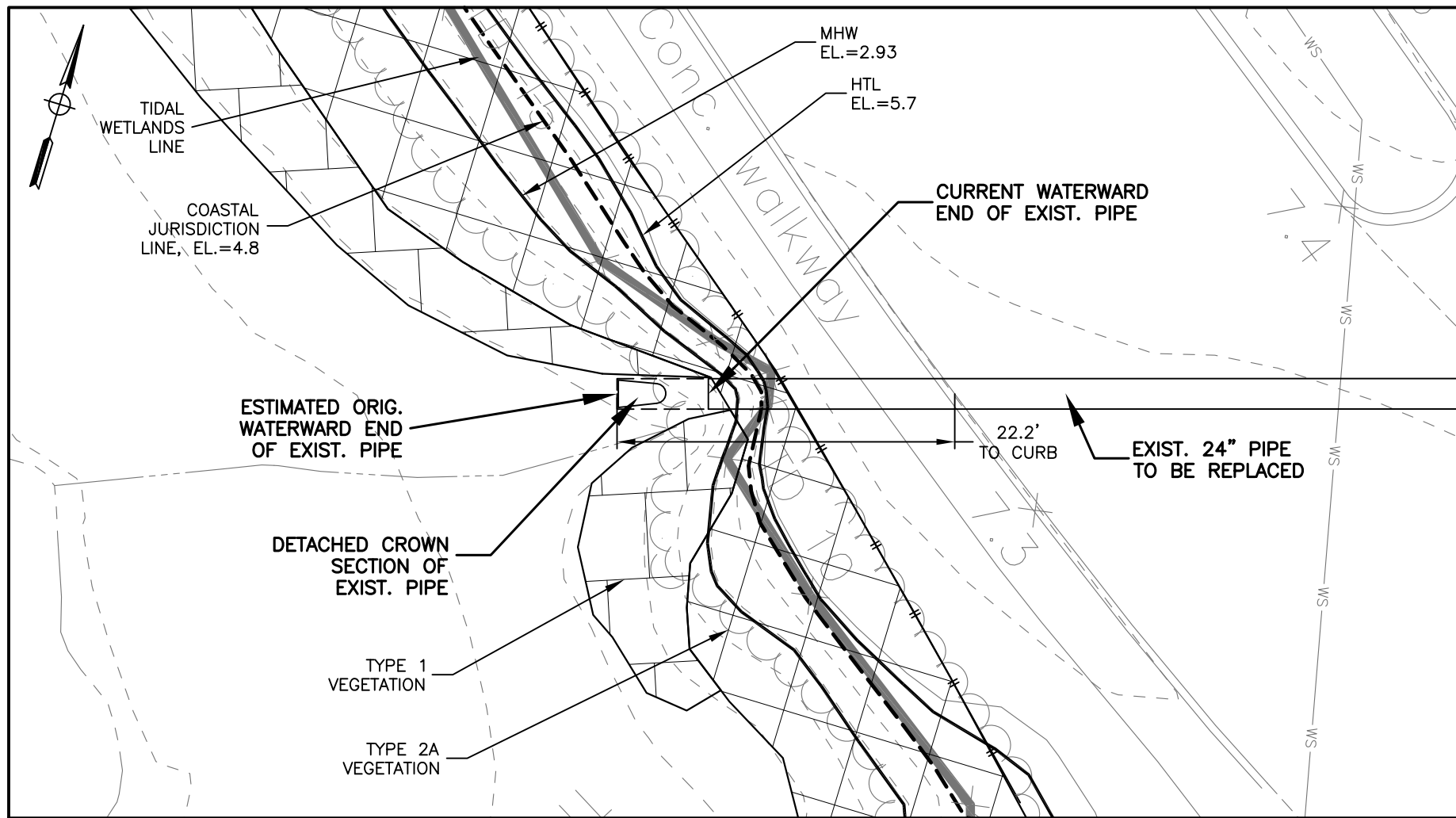
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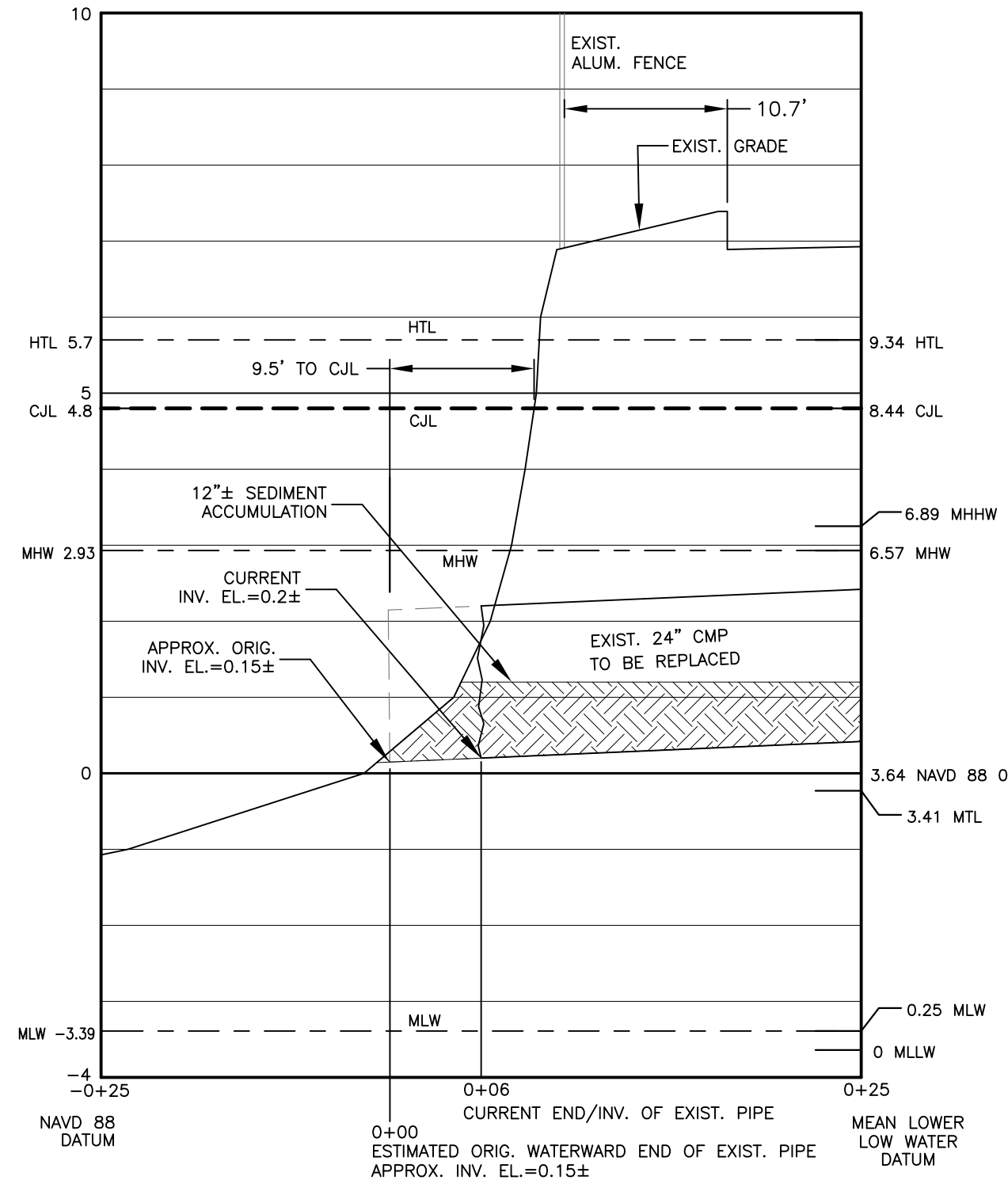
STORMWATER OUTFALL #1 PLAN & PROFILE Job No. 23-05

CITY OF MILFORD
PHASE 2B FOUNDER'S WALK Scale: 1"=10'

FOWLER FIELD/WILCOX PARK Date: 9/25/23
SHIPYARD LANE Designed: D.W.S.
MILFORD, CONNECTICUT Drawn: K.D.K.
Sheet: C601-1



STORMWATER OUTFALL #1 PLAN
SCALE: 1"=10'



STORMWATER OUTFALL #1 PROFILE
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=2'

REGULATED AREA VEGETATION TYPES & LIMITS PER TIDAL WETLAND VEGETATION REPORT DATED 10/5/23 BY SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.

100 YEAR FLOOD ELEV.=11.0
10 YEAR STARTING STILLWATER ELEV.=7.3
COASTAL JURISDICTION LINE ELEV.=4.8
MEAN HIGH WATER ELEV.=3.07
ALL ELEVATIONS ARE NAVD 88

REGULATED AREA VEGETATION TYPES

Type 1 vegetation occurs at the lower elevations of the tidal wetland and is dominated by *Spartina alterniflora* (saltwater cordgrass).

Type 2 occurs at a higher elevation between Type 1 and the existing fence and was broken down into two areas based on dominant vegetation.

Type 2A is dominated by *Phragmites australis* (common reedgrass) with some seaside goldenrod, hightide bush, and poison ivy.

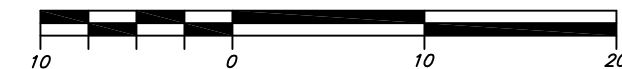
Type 2B is dominated by *Iva frutescens* (hightide bush) with poison ivy and seaside goldenrod. At the upper edge, or fence side, of Types 2, I observed several upland species including mugwort, common mullein, Virginia creeper, bindweed, pokeweed, crab apple and cherry trees, tree of heaven saplings, multiflora rose, grape, and bittersweet.

Gracilaria/Red Algae was observed growing within the channel downstream of the pedestrian bridge.



Donald W. Smith, Jr.

GRAPHIC SCALE:



NOTE
SEE SHEET C100 FOR NOTES & LEGEND.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Phase 2B only	12/4/23
2	DEEP comments	2/2/24
3	SW outfalls 1, 4 & 5	2/19/24
4	DEEP comments	3/4/24
5	U.U.F. filter list, reg. veg. type	3/8/24

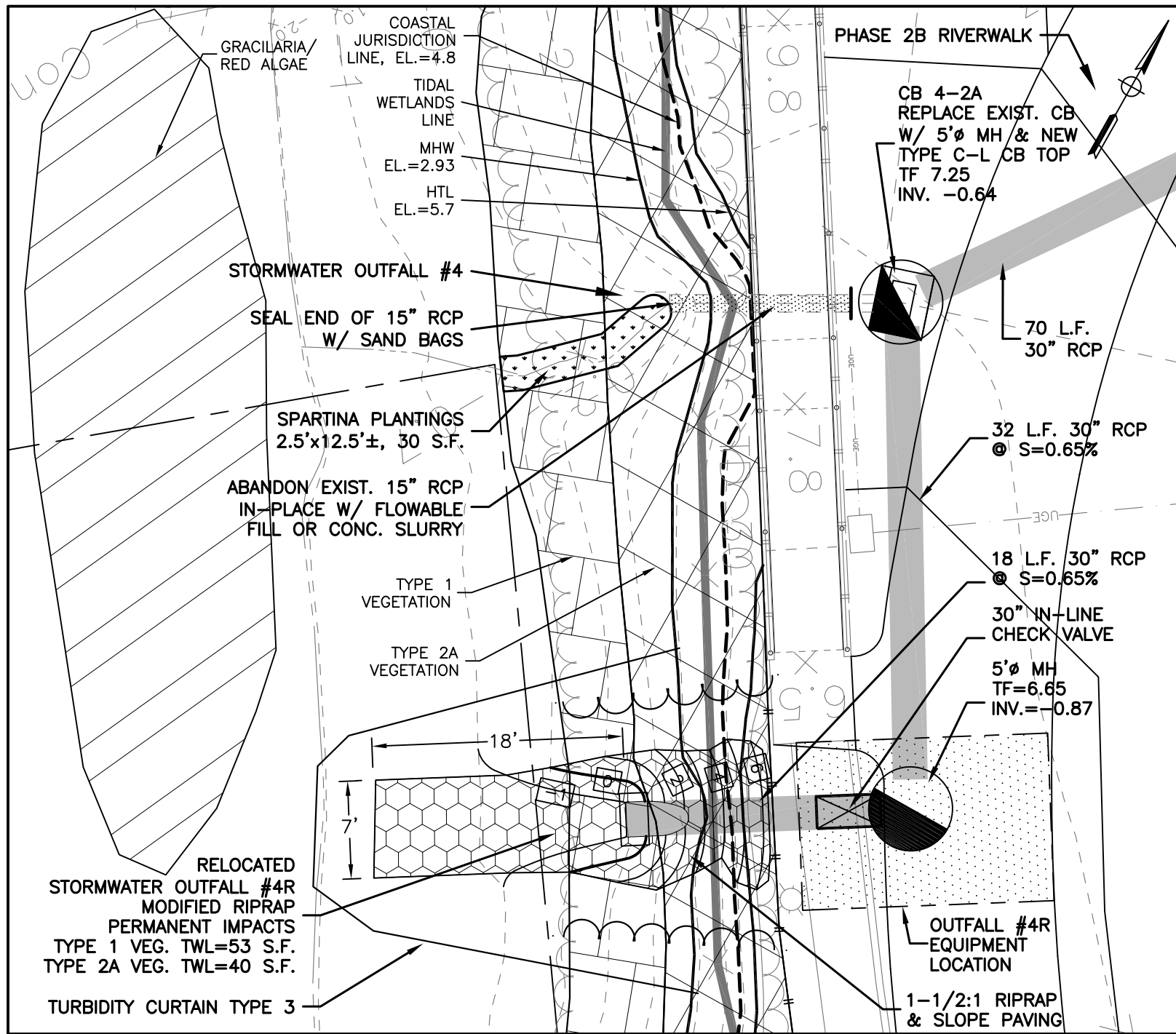
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Tel. 203-888-4904 Fax 203-881-3434 dwsjrpe@sbcglobal.net

EXIST. STORMWATER OUTFALL #1 PLAN & PROFILE Job No. 23-05

CITY OF MILFORD
PHASE 2B FOUNDER'S WALK Scale: 1"=10'
Date: 9/25/23

FOWLER FIELD/WILCOX PARK Designed: D.W.S.
SHIPYARD LANE Drawn: K.D.K.
MILFORD, CONNECTICUT Sheet: C601-1E



STORMWATER OUTFALL #4 & #4R PLAN

SCALE: 1"=10'

REGULATED AREA VEGETATION TYPES & LIMITS PER TIDAL WETLAND VEGETATION REPORT DATED 10/5/23 BY SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.

REGULATED AREA VEGETATION TYPES

Type 1 vegetation occurs at the lower elevations of the tidal wetland and is dominated by *Spartina alterniflora* (saltwater cordgrass).

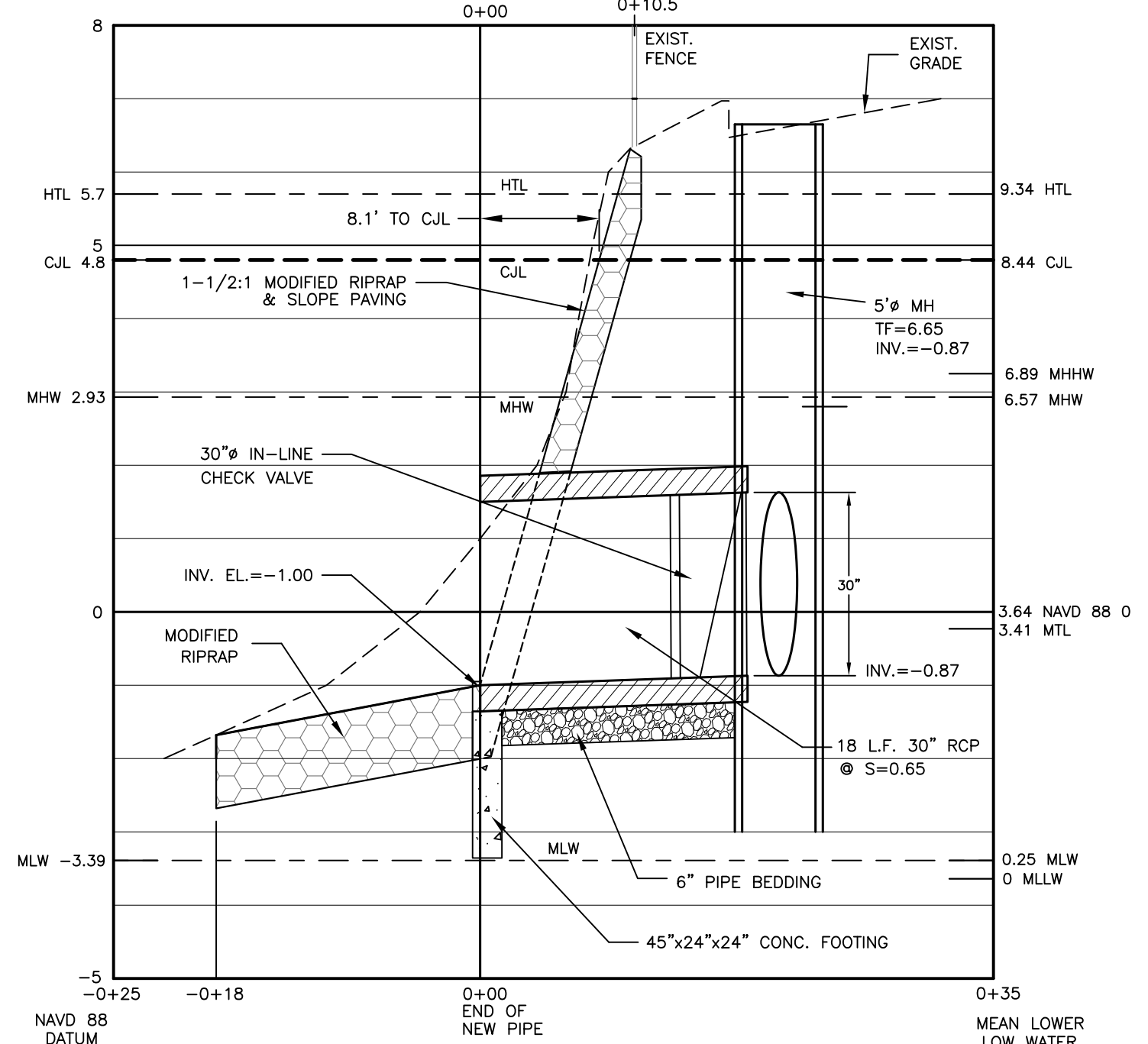
Type 2 occurs at a higher elevation between Type 1 and the existing fence and was broken down into two areas based on dominant vegetation.

Type 2A is dominated by *Phragmites australis* (common reedgrass) with some seaside goldenrod, hightide bush, and poison ivy.

Type 2B is dominated by *Iva frutescens* (hightide bush) with poison ivy and seaside goldenrod. At the upper edge, or fence side, of Types 2, I observed several upland species including mugwort, common mullein, Virginia creeper, bindweed, pokeweed, crab apple and cherry trees, tree of heaven saplings, multiflora rose, grape, and bittersweet.

Gracilaria/Red Algae was observed growing within the channel downstream of the pedestrian bridge.

OUTFALL #	WETLAND VEGETATION IMPACT SUMMARY								ADJ. NON-TWL AREA
	TEMPORARY (SF)		PERMANENT (SF)		EARTHWORK (CY)		MITIGATION (SF)		
	Type 1	Type 2A	Type 1	Type 2A	CUT	FILL	Type 1	Type 2A	
#1	20	7	32	16	5.5	5.5	34	0	
#2	0	0	0	0	0	0.25	0	0	
#3	0	0	0	0	0	0	0	0	
#4	0	0	0	0	0	0	30	0	
#4R	38	33	53	40	14.85	11.05	0	0	
#5	0	0	0	0	3	0	0	0	
#6	0	0	0	0	0	0	0	0	
Mitigation Area	0	0	0	0	0	0	0	385	300
TOTAL	58	40	85	56	23.35	16.8	64	385	300
Vol. Phrag. Maint. Area	0	0	0	0	0	0	0	185	160



STORMWATER OUTFALL #4R PROFILE

SCALE: 1"=10'
SCALE: 1"=2'

OUTFALL #	RIPRAP QUANTITY SUMMARY	
	APRON (CY)	SLOPE STABILIZATION (CY)
#1	2.15	2.85
#4R	4.67	2.4
	6.82	5.25

GRAPHIC SCALE:



Donald W. Smith, Jr.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Phase 2B only	12/4/23
2	DEEP comments	2/2/24
3	SW outfalls 1, 4 & 5	2/19/24
4	DEEP comments	3/4/24
5	U.U.F. filter list, reg. veg. type	3/8/24

DONALD W. SMITH, JR., P.E.
CONSULTING ENGINEER
56 GREENWOOD CIRCLE SEYMOUR, CT 06483
Tel. 203-888-4904 Fax 203-881-3434 dwsjrpe@sbcglobal.net

100 YEAR FLOOD ELEV.=11.0
10 YEAR STARTING STILLWATER ELEV.=7.3
COASTAL JURISDICTION LINE ELEV.=4.8
MEAN HIGH WATER ELEV.=3.07
ALL ELEVATIONS ARE NAVD 88

NOTE
SEE SHEET C100 FOR NOTES & LEGEND.

STORMWATER OUTFALL #4 PLAN & PROFILE Job No. 23-05

Scale: 1"=10'

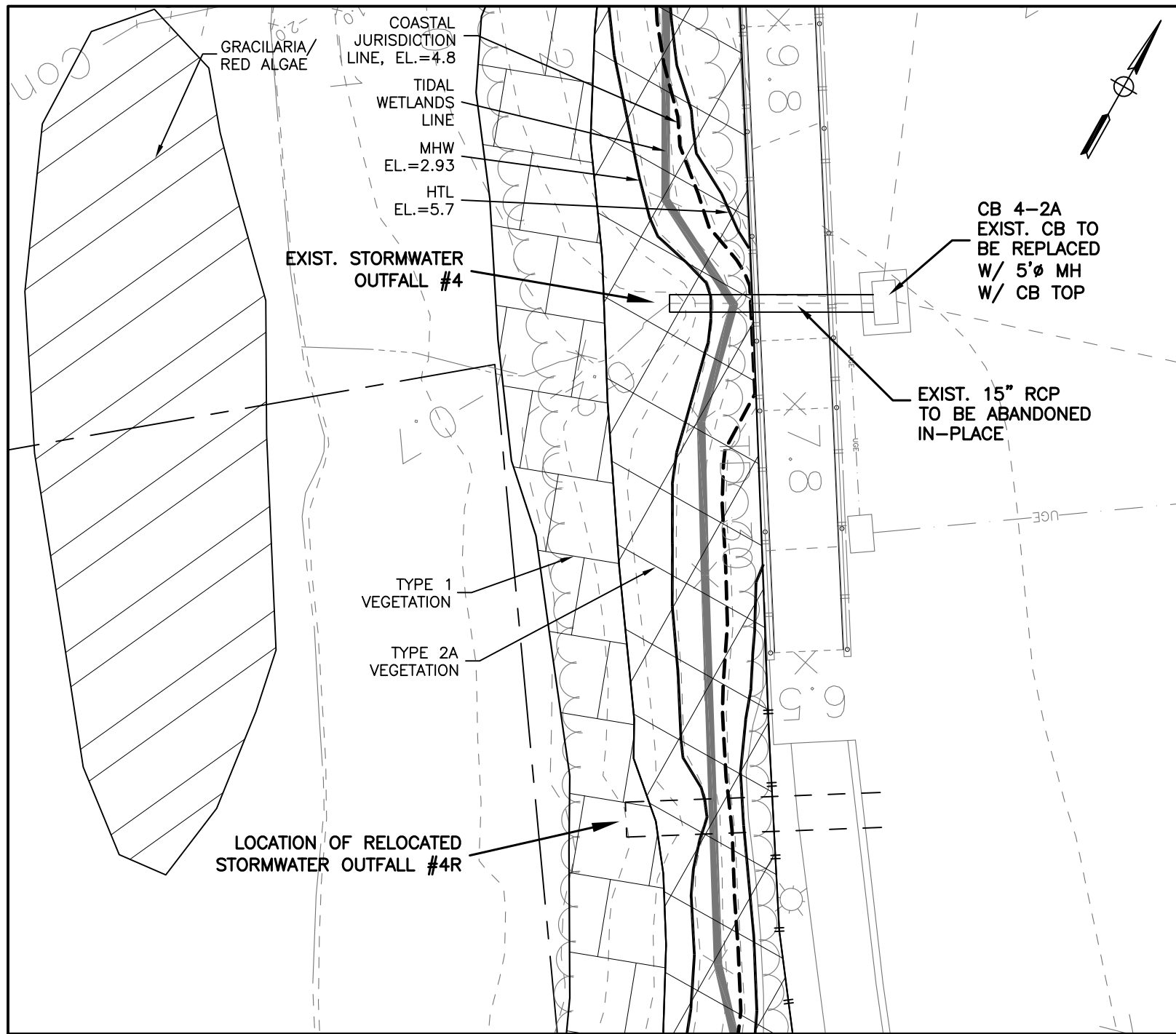
Date: 9/25/23

Designed: D.W.S.

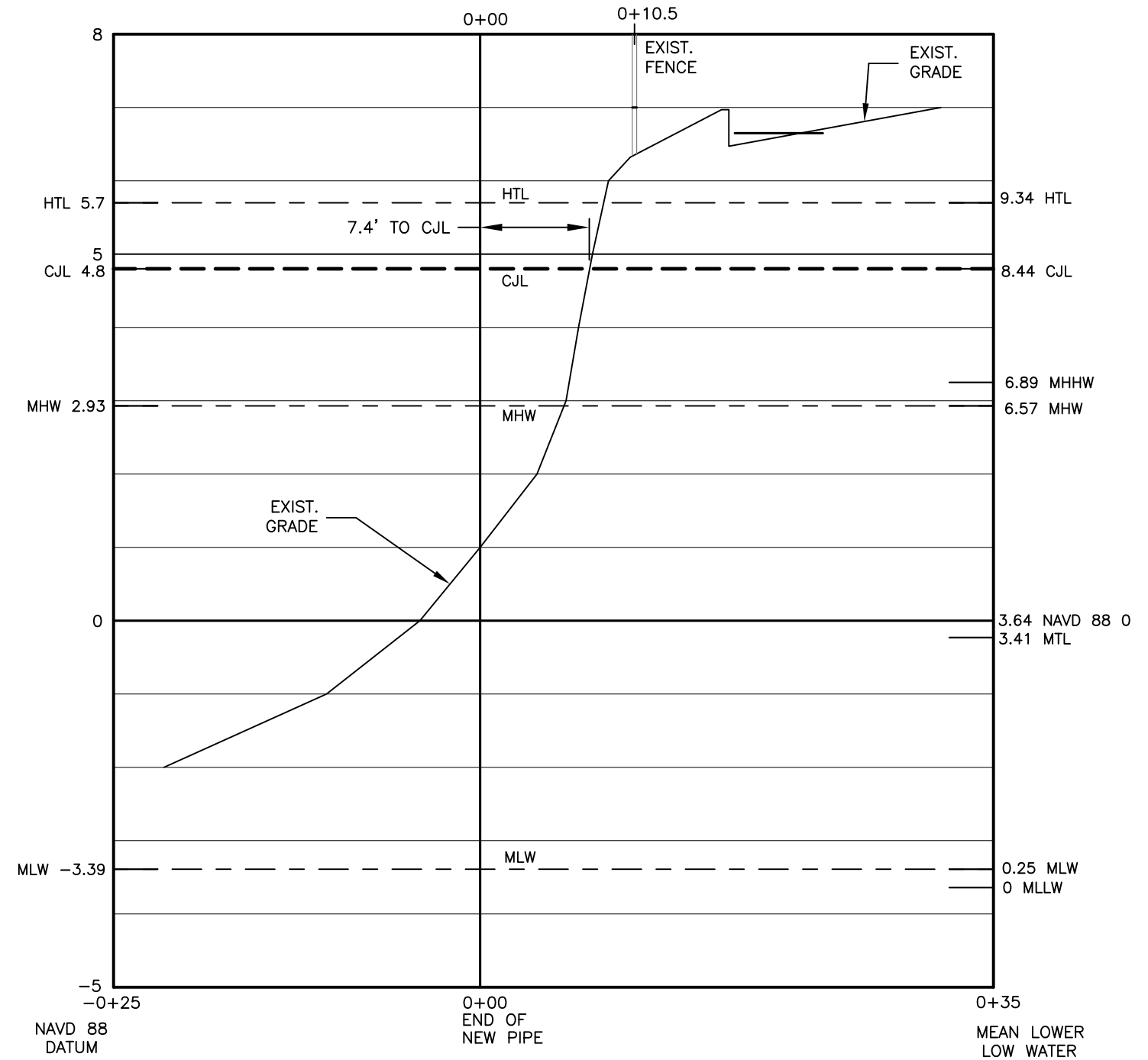
Drawn: K.D.K.

Sheet: C601-4R

CITY OF MILFORD
PHASE 2B FOUNDER'S WALK
FOWLER FIELD/WILCOX PARK
SHIPYARD LANE
MILFORD, CONNECTICUT



STORMWATER OUTFALL #4 & #4R PLAN
SCALE: 1"=10'



STORMWATER OUTFALL #4R PROFILE
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=2'

REGULATED AREA VEGETATION TYPES & LIMITS PER TIDAL WETLAND VEGETATION REPORT DATED 10/5/23 BY SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.

100 YEAR FLOOD ELEV.=11.0
10 YEAR STARTING STILLWATER ELEV.=7.3
COASTAL JURISDICTION LINE ELEV.=4.8
MEAN HIGH WATER ELEV.=3.07
ALL ELEVATIONS ARE NAVD 88

REGULATED AREA VEGETATION TYPES

Type 1 vegetation occurs at the lower elevations of the tidal wetland and is dominated by *Spartina alterniflora* (saltwater cordgrass).

Type 2 occurs at a higher elevation between Type 1 and the existing fence and was broken down into two areas based on dominant vegetation.

Type 2A is dominated by *Phragmites australis* (common reedgrass) with some seaside goldenrod, hightide bush, and poison ivy.

Type 2B is dominated by *Iva frutescens* (hightide bush) with poison ivy and seaside goldenrod. At the upper edge, or fence side, of Types 2, I observed several upland species including mugwort, common mullein, Virginia creeper, bindweed, pokeweed, crab apple and cherry trees, tree of heaven saplings, multiflora rose, grape, and bittersweet.

Gracilaria/Red Algae was observed growing within the channel downstream of the pedestrian bridge.



Donald W. Smith, Jr.

GRAPHIC SCALE:



NOTE
SEE SHEET C100 FOR NOTES & LEGEND.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Phase 2B only	12/4/23
2	DEEP comments	2/2/24
3	SW outfalls 1, 4 & 5	2/19/24
5	U.U.F. filter list, reg. veg. type	3/8/24



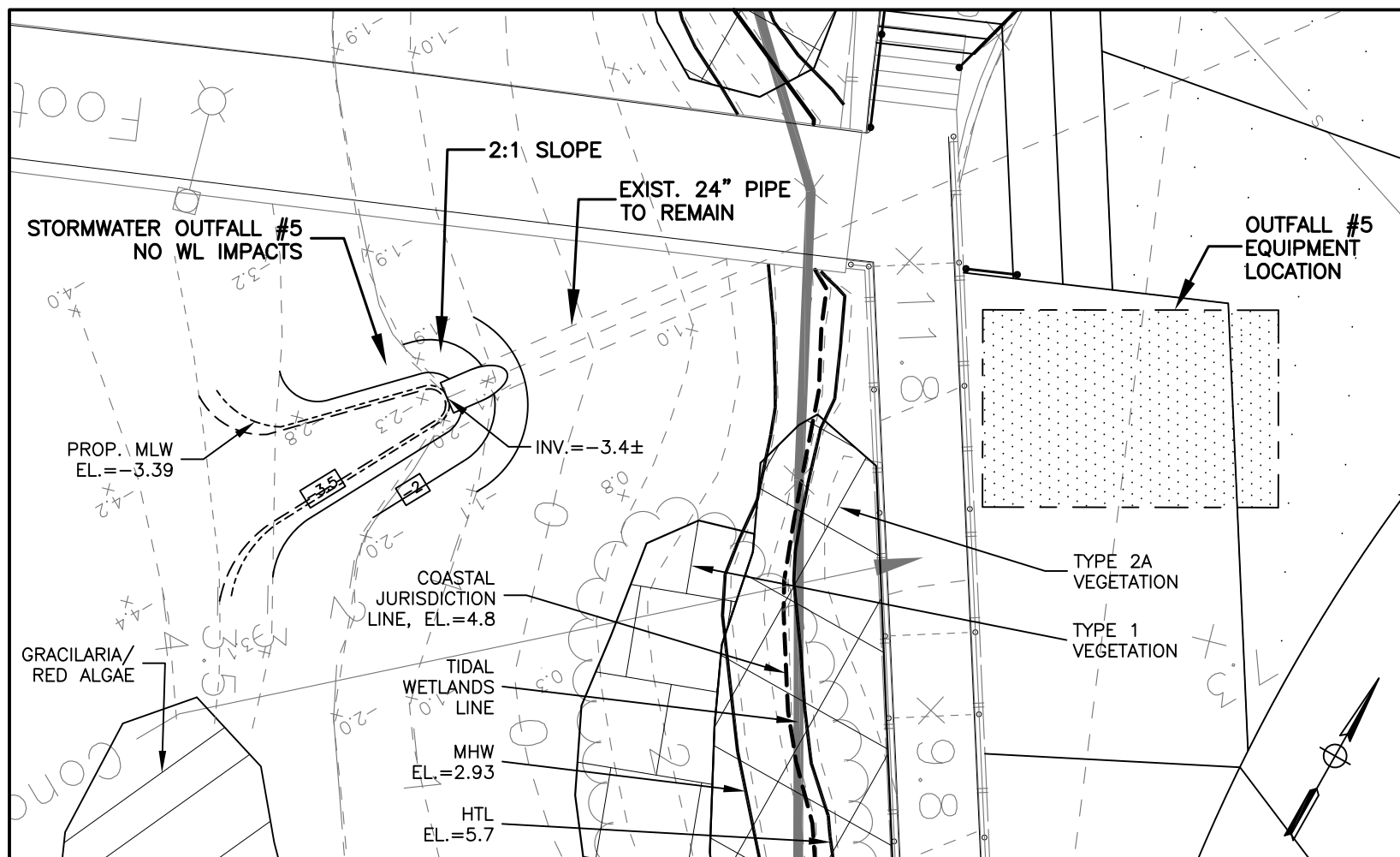
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Tel. 203-888-4904 Fax 203-881-3434 dwsjrpe@sbcglobal.net

EXIST. STORMWATER OUTFALL #4 PLAN & PROFILE

CITY OF MILFORD
PHASE 2B FOUNDER'S WALK
FOWLER FIELD/WILCOX PARK
SHIPYARD LANE
MILFORD, CONNECTICUT

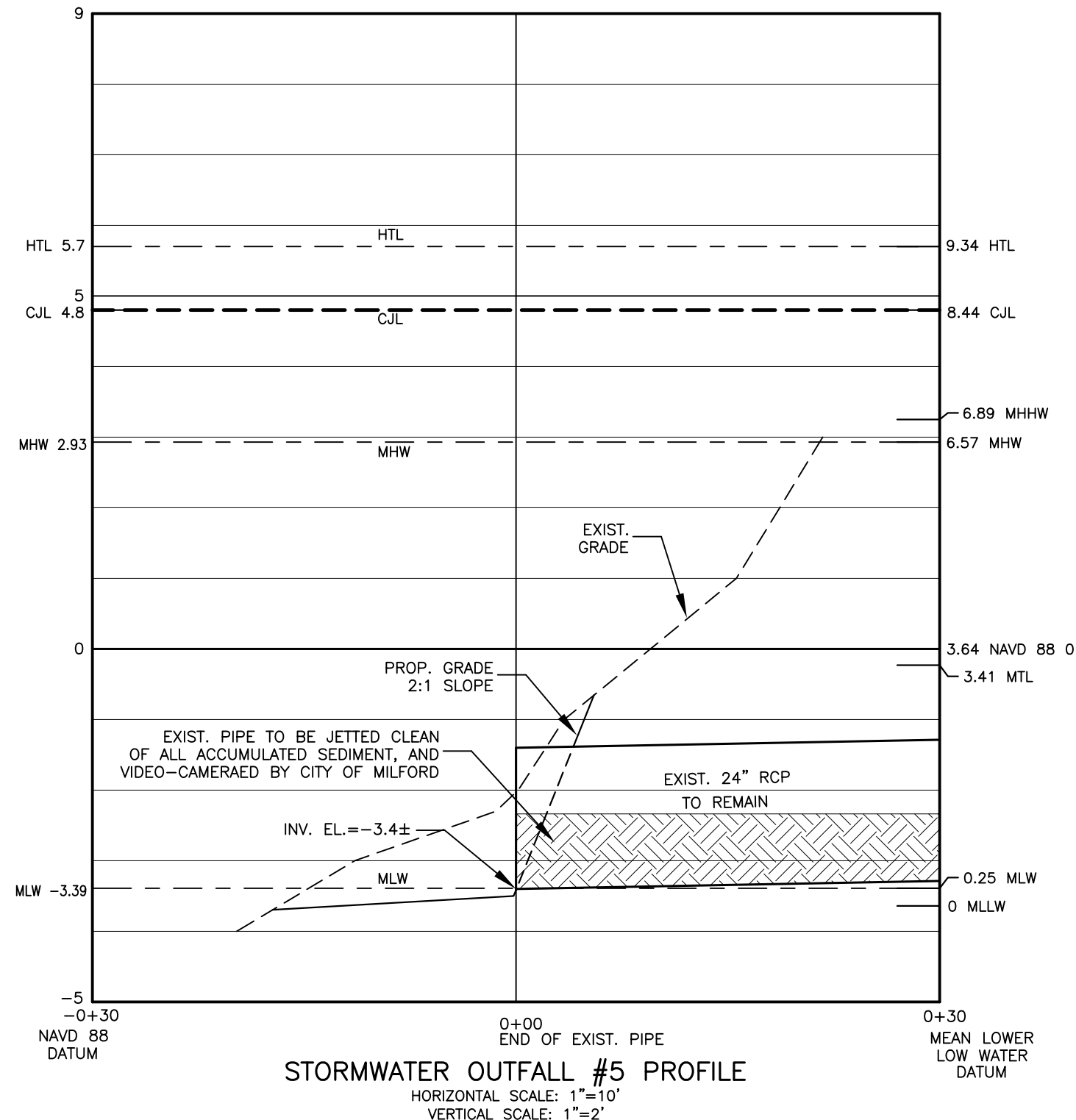
Job No. 23-05
Scale: 1"=10'
Date: 9/25/23
Designed: D.W.S.
Drawn: K.D.K.
Sheet: C601-4RE



STORMWATER OUTFALL #5 PLAN
SCALE: 1"=10'

OUTFALL #	WETLAND VEGETATION IMPACT SUMMARY				EARTHWORK (CY)		MITIGATION (SF)		ADJ. NON-TWL AREA
	TEMPORARY (SF)		PERMANENT (SF)		CUT	FILL	Type 1	Type 2A	
#1	20	7	32	16	5.5	5.5	34	0	
#2	0	0	0	0	0	0.25	0	0	
#3	0	0	0	0	0	0	0	0	
#4	0	0	0	0	0	0	30	0	
#4R	38	33	53	40	14.85	11.05	0	0	
#5	0	0	0	0	3	0	0	0	
#6	0	0	0	0	0	0	0	0	
Mitigation Area	0	0	0	0	0	0	0	385	300
TOTAL	58	40	85	56	23.35	16.8	64	385	300
Vol. Phrag. Maint. Area	0	0	0	0	0	0	0	185	160

OUTFALL #	RIRPAP QUANTITY SUMMARY	
	APRON (CY)	SLOPE STABILIZATION (CY)
#1	2.15	2.85
#4R	4.67	2.4
	6.82	5.25



STORMWATER OUTFALL #5 PROFILE
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=2'

REGULATED AREA VEGETATION TYPES & LIMITS PER TIDAL WETLAND VEGETATION REPORT DATED 10/5/23 BY SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.

REGULATED AREA VEGETATION TYPES

Type 1 vegetation occurs at the lower elevations of the tidal wetland and is dominated by *Spartina alterniflora* (saltwater cordgrass).

Type 2 occurs at a higher elevation between Type 1 and the existing fence and was broken down into two areas based on dominant vegetation.

Type 2A is dominated by *Phragmites australis* (common reedgrass) with some seaside goldenrod, hightide bush, and poison ivy.

Type 2B is dominated by *Iva frutescens* (hightide bush) with poison ivy and seaside goldenrod. At the upper edge, or fence side, of Types 2, 1 observed several upland species including mugwort, common mullein, Virginia creeper, bindweed, pokeweed, crab apple and cherry trees, tree of heaven saplings, multiflora rose, grape, and bittersweet.

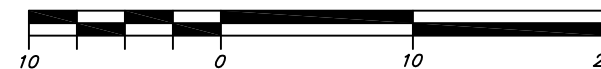
Gracilaria/Red Algae was observed growing within the channel downstream of the pedestrian bridge.

100 YEAR FLOOD ELEV.=11.0
10 YEAR STARTING STILLWATER ELEV.=7.3
COASTAL JURISDICTION LINE ELEV.=4.8
MEAN HIGH WATER ELEV.=3.07
ALL ELEVATIONS ARE NAVD 88



Donald W. Smith, Jr.

GRAPHIC SCALE:



NOTE
SEE SHEET C100 FOR NOTES & LEGEND.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Phase 2B only	12/4/23
2	DEEP comments	2/2/24
3	SW outfalls 1, 4 & 5	2/19/24
4	DEEP comments	3/4/24
5	U.I.F. filter list, reg. veg. type	3/8/24



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3190 Whitney Avenue, Hamden, CT 06518-2340
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silverpetrucci.com

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Tel. 203-888-4904 Fax 203-881-3434 dwsjrpe@sbcglobal.net

STORMWATER OUTFALL #5 PLAN & PROFILE

**CITY OF MILFORD
PHASE 2B FOUNDER'S WALK**

**FOWLER FIELD/WILCOX PARK
SHIPYARD LANE
MILFORD, CONNECTICUT**

Job No. 23-05

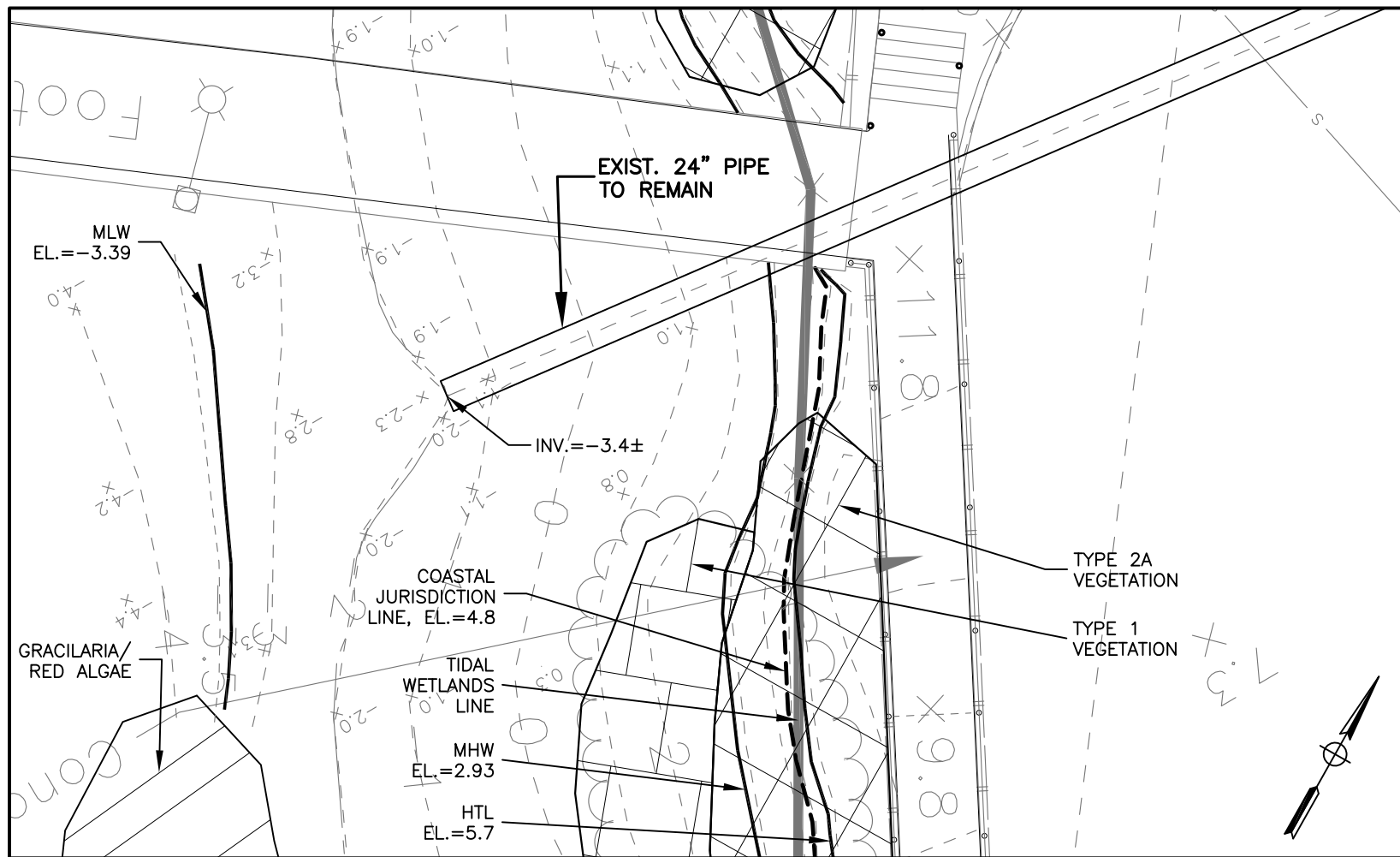
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Date: 9/25/23

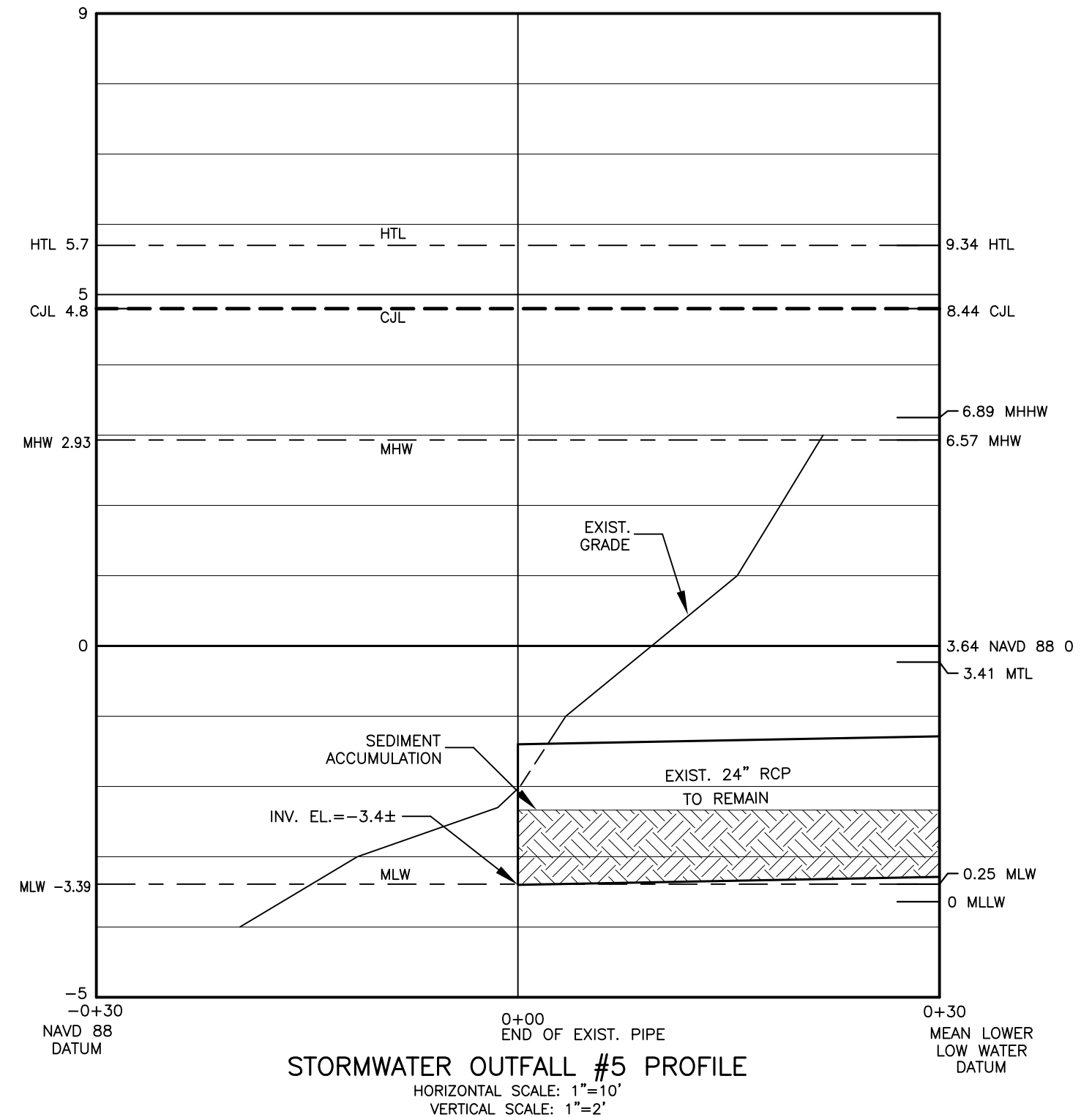
Designed: D.W.S.

Drawn: K.D.K.

Sheet: C601-5



STORMWATER OUTFALL #5 PLAN
SCALE: 1"=10'



REGULATED AREA VEGETATION TYPES & LIMITS PER TIDAL WETLAND VEGETATION REPORT DATED 10/5/23 BY SOIL SCIENCE AND ENVIRONMENTAL SERVICES, INC.

100 YEAR FLOOD ELEV.=11.0
10 YEAR STARTING STILLWATER ELEV.=7.3
COASTAL JURISDICTION LINE ELEV.=4.8
MEAN HIGH WATER ELEV.=3.07
ALL ELEVATIONS ARE NAVD 88

REGULATED AREA VEGETATION TYPES

Type 1 vegetation occurs at the lower elevations of the tidal wetland and is dominated by *Spartina alterniflora* (saltwater cordgrass).

Type 2 occurs at a higher elevation between Type 1 and the existing fence and was broken down into two areas based on dominant vegetation.

Type 2A is dominated by *Phragmites australis* (common reedgrass) with some seaside goldenrod, hightide bush, and poison ivy.

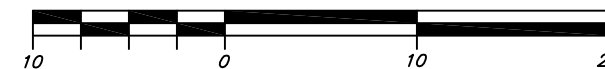
Type 2B is dominated by *Iva frutescens* (hightide bush) with poison ivy and seaside goldenrod. At the upper edge, or fence side, of Types 2, 1 observed several upland species including mugwort, common mullein, Virginia creeper, bindweed, pokeweed, crab apple and cherry trees, tree of heaven saplings, multiflora rose, grape, and bittersweet

Gracilaria/Red Algae was observed growing within the channel downstream of the pedestrian bridge.



Donald W. Smith, Jr.

GRAPHIC SCALE:



NOTE
SEE SHEET C100 FOR NOTES & LEGEND.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Phase 2B only	12/4/23
2	DEEP comments	2/2/24
3	SW outfalls 1, 4 & 5	2/19/24
4	DEEP comments	3/4/24
5	U.U.F. filter list, reg. veg. type	3/8/24



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EXIST. STORMWATER OUTFALL #5 PLAN & PROFILE

CITY OF MILFORD
PHASE 2B FOUNDER'S WALK

FOWLER FIELD/WILCOX PARK
SHIPYARD LANE
MILFORD, CONNECTICUT

Job No. 23-05

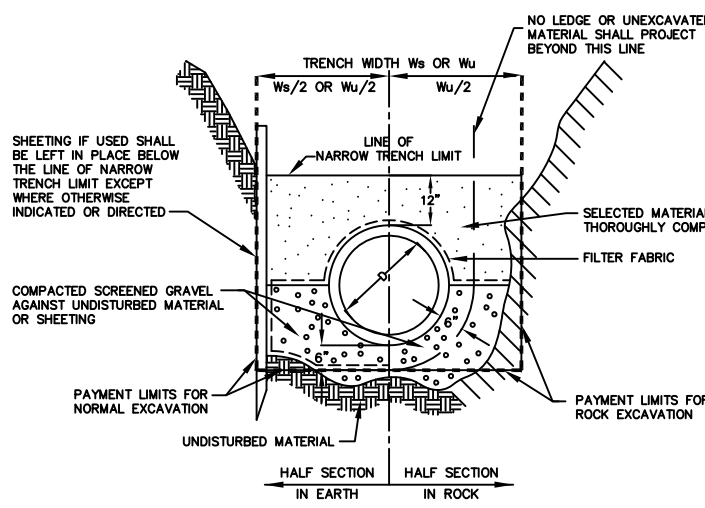
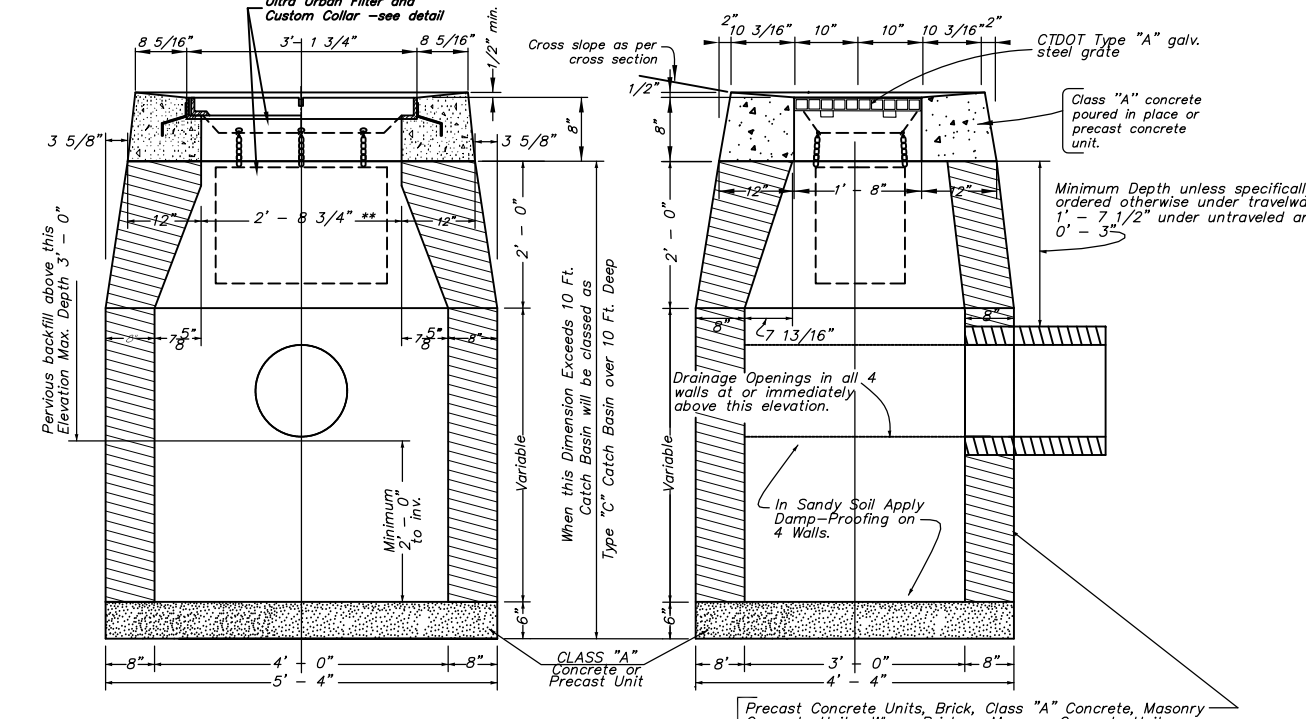
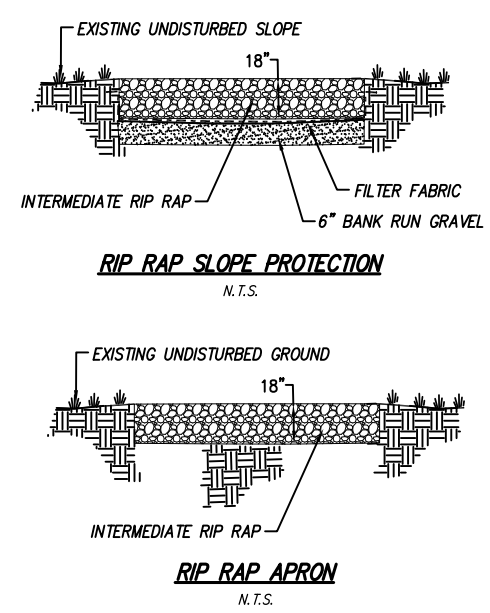
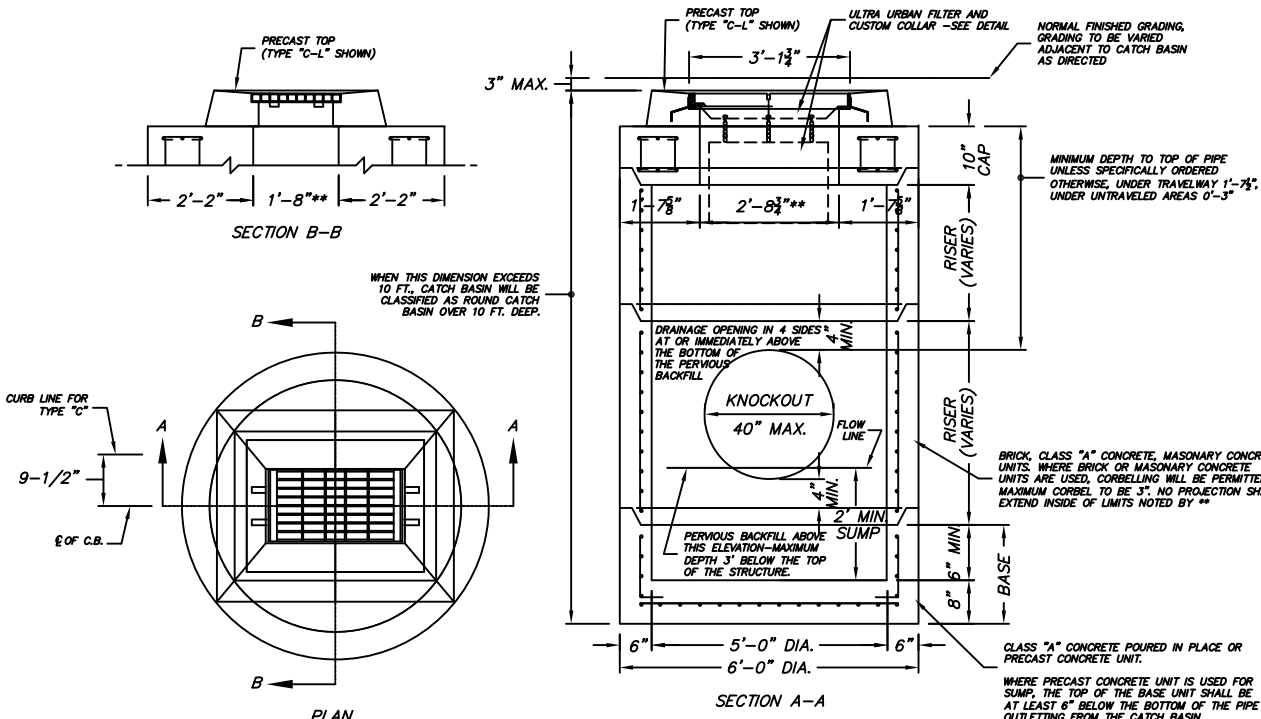
Scale: 1"=10'

Date: 9/25/23

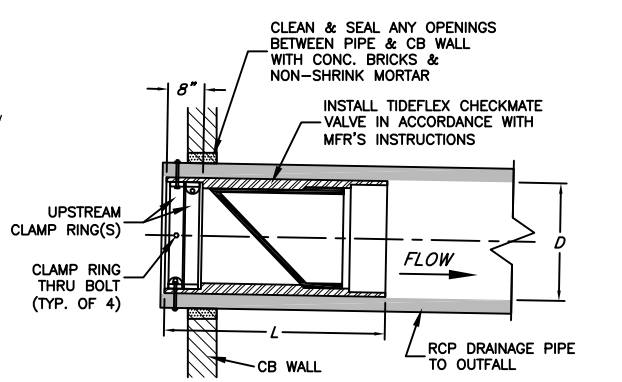
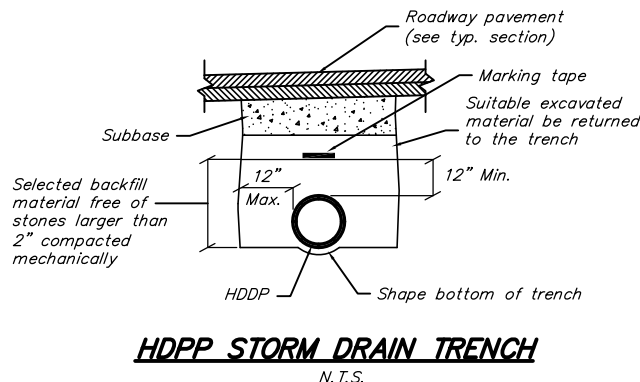
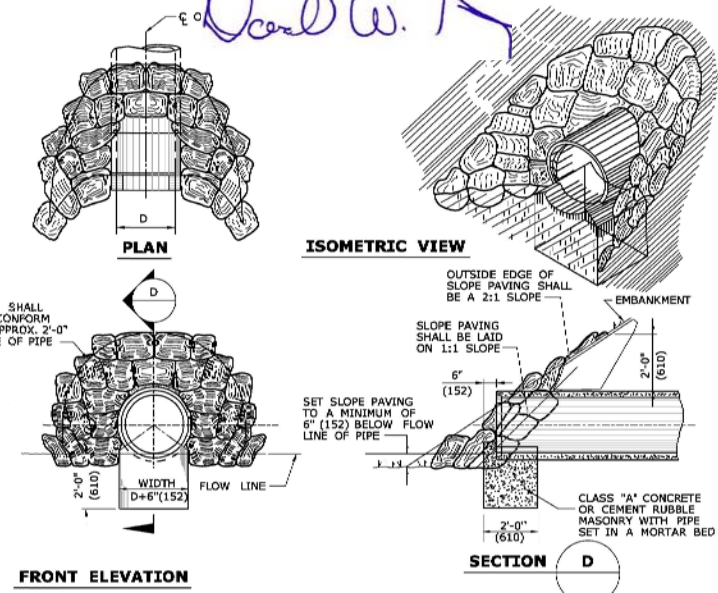
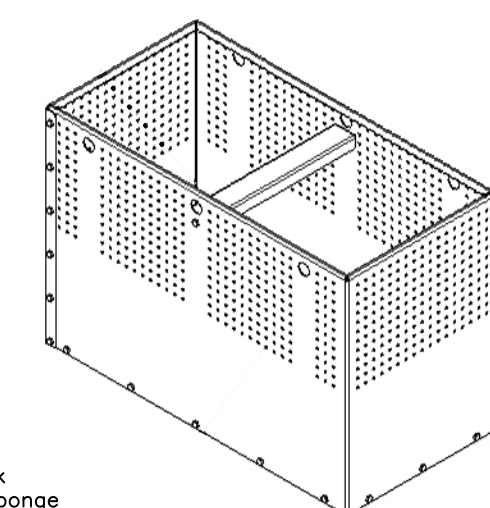
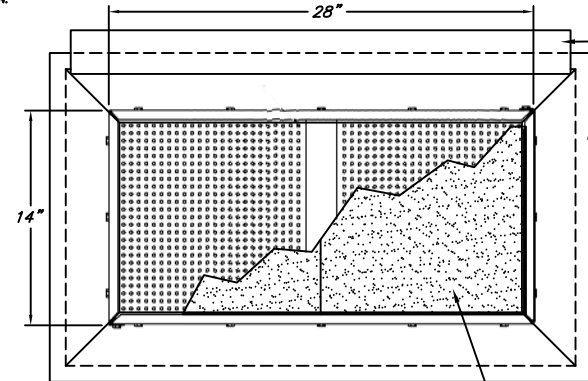
Designed: D.W.S.

Drawn: K.D.K.

Sheet: C601-5E



PIPE DIAMETER D	TRENCH WIDTH W_s OR W_u	
	W_u UNSHEATED	W_s SHEATED
12" & SMALLER	3'-0"	4'-2"
15"	3'-2"	4'-4"
18"	3'-6"	4'-8"
24"	4'-2"	5'-4"
30"	4'-10"	6'-0"



D	L	# OF CLAMPS
18"	31"	1
24"	47.5"	2
30"	54.9"	2

ABTECH ULTRA-URBAN FILTER CHESTER DI2814N-316
N.T.S.

REVISIONS		
NO.	DESCRIPTION	DATE
1	Phase 2B only	11/13/23
3	Ultra-urban filter	2/19/24

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DETAILS

CITY OF MILFORD
PHASE 2B FOUNDER'S WALK
 FOWLER FIELD/WILCOX PARK
 SHIPYARD LANE
 MILFORD, CONNECTICUT

Job No. 23-05
 Scale: As Noted
 Date: 9/25/23
 Designed: D.W.S.
 Drawn: K.D.K.
 Sheet: C800



Land Record Filing*

To: DO NOT FILE

Signature and

NOTE: Due to the electronic delivery of this license and the legal requirement to have a live signature on this document, the “Land Record Filing” as detailed in General Condition #1 will be sent to the Licensee via U.S. Mail for the Licensee to file with the city/town clerk.

Date:

Subject: _____
License # _____

If you have any questions pertaining to this matter, please contact the Land & Water Resources Division at 860-424-3019.

~~Return to:~~

~~Land & Water Resources Division
State of Connecticut
Department of Energy & Environmental Protection
79 Elm Street
Hartford, CT 06106-5127~~

*The Licensee shall file the Land Record Filing on the land records of the municipality in which the subject property is located not later than thirty (30) days after license issuance pursuant to Connecticut General Statutes (CGS) Section 22a-363g. A copy of the Notice with a stamp or other such proof of filing with the municipality shall be submitted to the Commissioner no later than sixty (60) days after license issuance.



LWRD Work Commencement Form

To: DEEP.LWRDRegulatory@ct.gov or
Regulatory Section
Department of Energy and Environmental Protection
Land & Water Resources Division
79 Elm Street
Hartford, CT 06106-5127

Licensee Name: _____ City of Milford _____
Municipality in which the project is occurring: _____ Milford _____
DEEP License No(s): _____ 202309149-SDFTWQ _____

CONTRACTOR(s):

1 Name: _____
Address: _____
Telephone: _____
E-mail: _____

2 Name: _____
Address: _____
Telephone: _____
E-mail: _____

3 Name: _____
Address: _____
Telephone: _____
E-mail: _____

Date Contractor(s) received a copy
of the license and approved plans: _____

EXPECTED DATE OF COMMENCEMENT OF WORK: _____

EXPECTED DATE OF COMPLETION OF WORK: _____

LICENSEE: _____
(Signature) (Date)



Compliance Certification Form

The following certification must be signed by the licensee working in consultation with a Connecticut-licensed design professional and must be submitted to the address indicated at the end of this form within ninety (90) days of completion of the authorized work.

1. Licensee Name: _____ City of Milford _____ DEEP License Number(s): _____ 202309149-SDFTWQ _____ Municipality in which project is occurring: _____ Milford _____	
2. Check one: (a) <input type="checkbox"/> "I certify that the final site conditions and / or structures are in general conformance with the approved site plans". Identify and describe any deviations and attach to this form. (b) <input type="checkbox"/> "The final site conditions and / or structures are not in general conformance with the approved site plans. The enclosed "as-built" plans note the modifications".	
3. "I understand that any false statement in this certification is punishable as a criminal offence under section 53a-157b of the General Statutes and under any other applicable law."	
_____ Signature of Licensee	_____ Date
_____ Name of Licensee (print or type)	
_____ Signature of CT-Licensed Design Professional	_____ Date
_____ Name of CT-Licensed Design Professional (print or type)	
_____ Professional License Number (if applicable)	Affix Stamp Here <div style="border: 1px solid black; width: 100px; height: 100px; display: inline-block; vertical-align: middle;"></div>
<ul style="list-style-type: none"> As-built plans shall include: elevations or tidal datums, as applicable, and structures, including any proposed elevation views and cross sections included in the approved license plans. Such as-built plans shall be the original ones and be signed and sealed by an engineer, surveyor or architect, as applicable, who is licensed in the State of Connecticut. The Licensee will be notified by staff of the Land and Water Resources Division (LWRD) if further compliance review is necessary. Lack of response by LWRD staff does not imply compliance. <p>Submit this completed form to : DEEP.LWRDRegulatory@ct.gov or Regulatory Section Department of Energy and Environmental Protection Land & Water Resources Division 79 Elm Street Hartford, CT 06106-5127</p>	