

CONSERVATION COMMISSION AGENDA  
REGULAR MEETING (VIRTUAL)  
Thursday, November 14, 2024, 7:30 P.M.  
Town Office Building, 15 Gilead Street, Hebron, CT

RECEIVED

2024 NOV -7 P 5:30  
OK Asst  
HEBRON TOWN CLERK

REGULAR MEETING (VIRTUAL)

Conservation Commission Regular Meeting (Virtual)  
Nov 14, 2024, 7:30 – 10:30 PM (America/New York)

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**REGULAR MEETING OF NOVEMBER 14, 2024**

- I. Call to Order/Roll Call
  - A. Seating of Alternate
- II. Approval of Minutes – Regular Meeting – October 10, 2024
- III. Additions to the Agenda
- IV. Recognition of Guests: Opportunity for citizens to briefly address the Commission on non-agenda items.
- V. Violations
- VI. Pending Applications
- VII. New Applications
  - A. **Petition 2024-9; Martin Road from Gilead Street to the Marlborough Town Line, Town of Hebron, Removal and Replacement of two Existing Roadway Culverts Associated with Improvements to Martin Road; General Roadway Improvements within the Regulated Area**
- VIII. Wetlands Agent Approvals
- IX. Pre-applications

**CONSERVATION COMMISSION**  
**AGENDA (cont.)**  
**REGULAR MEETING (VIRTUAL)**  
**Thursday, November 14, 2024, 7:30 P.M.**  
**Town Office Building, 15 Gilead Street, Hebron, CT**

X. New Business

XI. Other Pertinent Business

- A. Schedule of Meetings for 2025
- B. Annual Report for 2023-2024
- C. Easement Settlement

XII. Correspondence

- A. Legal Notices of Decision dated October 11, posted by the Town Clerk for the Hebron Conservation Commission
- B. Correspondence dated November 4 from J. Cordier to Donna Lanza, re: “Hebron’s Hidden Linear Parks” for Submission to the Hebron Views

XIII. Liaison Reports

- A. Open Space Land Acquisition Committee
- B. Salmon River Watershed Partnership
- C. Hebron Trail Rangers

XIV. Adjournment

Next Regular Meeting – December 12, 2024 (Virtual)

JC/dmg

**TOWN OF HEBRON  
CONSERVATION COMMISSION  
Regular Meeting (Virtual)  
Thursday, October 10, 2024 - 7:30 PM**

RECEIVED  
2024 OCT 23 P 12:29  
E.D. Frost  
HEBRON TOWN CLERK

**MINUTES**

**I. Call to Order/Roll Call**

Chris Frey called the meeting to order at 7:37 p.m.

**Members Present:** Tom Loto (Chair), Chris Frey (Vice-Chair), Dan Seremet, Joanna Chester

**Members Absent:** Jasmin Okugic

**Staff Present:** Jim Cordier

**II. Approval of Minutes - July 11, 2024 (Regular Meeting)**

**Motion by D. Seremet and seconded by J. Chester to approve the minutes of the July 11<sup>th</sup> meeting as submitted. The motion passed unanimously (4-0).**

**III. Additions to the Agenda**

J. Cordier noted additional correspondence, dated October 4<sup>th</sup>, from Halloran and Sage, relating to an easement violation settlement, and requested addition as item XII.E.

**IV. Recognition of Guests**

None.

**V. Violations**

None.

**VI. Pending Applications**

None.

**VII. New Applications**

None.

**VIII. Wetlands Agent Approvals**

J. Cordier noted the approvals below relate to ARPA projects, and while both are in regulated areas, neither impacts the wetlands proper, with proposed improvements occurring in already built-up areas. Following review of plans and site visits to each location, administrative approval was granted for both applications.

**A. Petition 2024 - 8; Burnt Hill Park, 150 East Street, Town of Hebron, Construction of a 26' x 36' Shed in the Upland Review Area**

J. Chester stated her opposition. Citing the existence of a maintenance shed nearby in Burnt Hill Park, as well as the aesthetic impact of paving the backyard of the Peters House, she would like an explanation of the need for both. D. Seremet asked for confirmation that no fuel will be stored in the shed. J. Cordier will convey the Commission's concerns and questions to the Town Planner for clarification. There

**TOWN OF HEBRON  
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was discussion on administrative approvals and the Commission's purview relating to these projects.

**Motion by D. Seremet and seconded by T. Loto to affirm the agent approval for Petition 2024 – 8, Burnt Hill Park, 150 East Street, Town of Hebron, Construction of a 26' x 36' Shed in the Upland Review Area, with the following comments:**

- 1. Applicant shall provide an explanation for the need for the shed.**
- 2. Applicant shall provide an explanation for the need for the paved parking area.**
- 3. Applicant shall confirm no fuel will be stored in the shed.**

**The motion passed unanimously (4-0).**

**B. Petition 2024 - 7; Veteran's Memorial Park, 66 Wall Street, Town of Hebron, Installation of a Concrete Foundation for an Athletic Field Light Pole in the Upland Review Area**

Site plans and proposed improvements were reviewed. D. Seremet stated his support, but noted concerns that light may impact the wetlands. The Commission requested confirmation that lighting impacts to wetlands be minimized, as well as notification of changes to lighting schedules.

**Motion by D. Seremet and seconded by J. Chester to affirm the agent determination for Petition 2024 – 7, Veteran's Memorial Park, 66 Wall Street, Town of Hebron, Installation of a Concrete Foundation for an Athletic Field Light Pole in the Upland Review Area, with the following comments:**

- 1. That designer evaluates and minimizes light spillover into the neighboring wetland for purposes of minimizing ecological disturbance from the light.**
- 2. The Commission understands the lights will be used during athletic events only and not illuminated all night. The Town should return to the Conservation Commission if any change is proposed to the illumination schedule.**

**The motion passed unanimously (4-0).**

**IX. Pre-Applications**

None.

**X. New Business**

**A. Discussion of a Potential Dog Park on a Town-owned Parcel North of Kinney Road**

J. Cordier reviewed a memo from the Town Planner, seeking the Commission's input on behalf of Planning & Zoning (PZC). The proposed site is not within wetlands, but is within the regulated area. There was discussion on existing conditions, including

**TOWN OF HEBRON  
CONSERVATION COMMISSION  
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accessways, proximity to the wetlands, and future maintenance of the site, including dog waste disposal, mowing, and fencing. J. Cordier reported specific input is sought regarding potential plantings that would thrive in the wet soils surrounding the site. It was noted this is also an ARPA project, and is subject to end-of-year encumbrance deadlines. There was discussion on the need and demand for such a facility in Hebron. Following further discussions, Commissioners raised questions and comments on the following items:

1. Trash pickup/can emptying, and can location
2. Overall maintenance plan
3. Fertilizer, IPM, and mosquito/tick treatment plans
4. Possible movement of fencing further from wetlands boundary
5. Future of wetlands area, including continued hay/agricultural use, regular mowing, or reforestation
6. Other locations considered, including alternatives
7. Regulatory considerations, including use as of right and outdoor recreation guidelines
8. Surface material plans, including grading, the installation of sod or seed, or use of existing natural cover, to be mowed
9. Make use of existing access road
10. Planting of attractive trees in wet soils, including willow, which may use too much water, and exploring other options
11. Signage, including open hours
12. Overall need/demand

J. Cordier will relay the Commission's concerns to PZC via Town staff.

**XI. Other Pertinent Business**

None.

**XII. Correspondence**

Items A through D were included in the agenda, and briefly reviewed. J. Cordier noted item E included the Town receiving \$10,000 in settlement, which will be added to the Open Space account. Commission recommendations on adjustment of the easement were incorporated in the final agreement.

- A. Legal Notices of Decision dated July 24, posted by the Town Clerk for the Hebron Conservation Commission
- B. Correspondence dated September 4, from UConn Extension Service to J. Cordier, re: Invasive Plant Symposium on October 29th at UConn
- C. Correspondence dated September 24, from CACIWC to J. Cordier, re: CACIWC Annual Meeting on Saturday, November 16 in Bristol
- D. Correspondence dated October 3, from Jacobson and Associates to J. Cordier, re: Commencement of Grayville Road Bridge Project on October 7 and lasting for 3 – 4 weeks

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- E. Correspondence dated October 4<sup>th</sup>, from Halloran & Sage, LLP, re: easement violation settlement

**XIII. Liaison Reports**

**A. Open Space Land Acquisition Committee**

There was discussion on potential Open Space sites, with J. Cordier noting several long-standing target parcels, and future opportunities for acquisition. The use and enforcement of easements was also briefly discussed.

**B. Salmon River Watershed Partnership**

C. Frey reviewed recent water monitoring efforts.

**C. Hebron Trail Rangers**

J. Chester reported a grant was received to partially fund a high-powered weedwhacker. The next meeting will be held Friday, October 18<sup>th</sup> at 10:30 a.m. National "Take a Hike Day" is November 17<sup>th</sup>.

**XIV. Adjournment**

The next regular meeting will be November 14<sup>th</sup>.

**Motion by J. Chester and seconded by D. Seremet to adjourn. The motion passed unanimously (4-0).**

Meeting adjourned at 9:27 p.m.

Respectfully submitted,  
Hannah Walcott (Board Clerk)

CONSERVATION COMMISSION

TOWN OF HEBRON

15 Gilead Street  
Hebron, CT 06248  
(860) 228-5971  
fax: (860)228-5980



File No:	
Received:	
Approved:	
Denied:	
Fee Paid:	

APPLICATION

Inland Wetlands and  
Watercourses Permit

Martin Road from Gilead Street (CT Rt. 85)

Site Location to Marlborough Town Line Assessors Map N/A Lot N/A Zone R1  
 Street Address Martin Road Total Parcel Acreage N/A Total Area of Wetlands Disturbance 1,883 SF

Owner of Record <u>Town of Hebron</u>	Telephone (H) _____	(W) <u>860-228-5971</u>
Address <u>15 Gilead Street, Hebron, CT 06231</u>	Mailing Address <u>15 Gilead Street, Hebron, CT 06231</u>	
Address _____	Mailing Address _____	

Applicant <u>Town of Hebron</u>	Telephone (H) _____	(W) <u>860-228-5971</u>
Address <u>15 Gilead Street, Hebron, CT 06231</u>	Mailing Address <u>15 Gilead Street, Hebron, CT 06231</u>	
Address _____	Mailing Address _____	

Agent/Lessee _____	Telephone (H) _____	(W) _____
Address _____	Mailing Address _____	
Address _____	Mailing Address _____	

To the Conservation Commission:

I, Andrew Tierney, hereby apply for and Inland Wetlands and Water Courses Permit, pursuant to Section(s) 7.1 of the Hebron Inland Wetlands and Watercourse Regulations for: (describe proposed regulated activities) Removal and replacement of two existing roadway culverts associated with improvements to Martin Road. General roadway improvements within regulated area.

The undersigned hereby applies for an Inland Wetland and Watercourses permit for the property described herein and confirms that:

- 1) He is familiar with the currently effective Inland Wetlands and Watercourses Regulations, Town of Hebron.
- 2) The statements and representation contained herein and in all supporting documents are true to the best of his knowledge.
- 3) By making this application, he gives his permission to the Conservation Commission or its representative to enter the portions of the applicant's premises which are the subject of this application for the purpose of inspection and investigation and otherwise evaluating the merits of the application.

Signature of Owner (s) \_\_\_\_\_

Signature of Agent/Lessee \_\_\_\_\_

Signature of Applicant \_\_\_\_\_

**NOTICE:** This application shall be in compliance with Section 7 of the Hebron Inland Wetlands and Watercourses Regulations and accompanied by the required fee, assessors field card, 12 copies of a certified plot plan bearing the raised seal of the Engineer and Surveyor licensed in the State of Connecticut, evidence of good standing with the Tax Collector's office and other materials as may be required by the Town of Hebron Zoning Regulations and or building code, names and addresses of all property owners within 200 feet of the boundaries of the subject parcel keyed to a map delineating a 200 foot radius around the subject site, the limits of clearing, location of adjacent wells, septic systems, ponds, wetlands, watercourses and/or other information as may be required by policies of the Conservation Commission.



## Statewide Inland Wetlands & Watercourses Activity Reporting Form

*Please complete this form in accordance with the instructions on pages 2 and 3 and mail to:*

*DEEP Land & Water Resources Division, Inland Wetlands Management Program, 79 Elm Street, 3<sup>rd</sup> Floor, Hartford, CT 06106*

*Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.*

### PART I: Must Be Completed By The Inland Wetlands Agency

- DATE ACTION WAS TAKEN: year: \_\_\_\_\_ month: \_\_\_\_\_
- ACTION TAKEN (see instructions - one code only): \_\_\_\_\_
- WAS A PUBLIC HEARING HELD (check one)? yes  no
- NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:  
(print name) \_\_\_\_\_ (signature) \_\_\_\_\_

### PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

- TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Hebron  
does this project cross municipal boundaries (check one)? yes  no   
if yes, list the other town(s) in which the activity is occurring (print name(s)): \_\_\_\_\_, \_\_\_\_\_
- LOCATION (see instructions for information): USGS quad name: Marlborough or number: 54  
subregional drainage basin number: 4706
- NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Town of Hebron
- NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): Martin Road  
briefly describe the action/project/activity (check and print information): temporary  permanent  description: Removal and replacement of existing culverts.
- ACTIVITY PURPOSE CODE (see instructions - one code only): E
- ACTIVITY TYPE CODE(S) (see instructions for codes): 9, 10, 12, \_\_\_\_\_
- WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):  
wetlands: .043 acres open water body: 0 acres stream: 0 linear feet
- UPLAND AREA ALTERED (must provide acres): 0 acres
- AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): \_\_\_\_\_ acres

DATE RECEIVED:

### PART III: To Be Completed By The DEEP

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO

**PROJECT NARRATIVE**  
FOR  
**MARTIN ROAD IMPROVEMENTS**  
TOWN OF HEBRON, CONNECTICUT  
NLJA # 0648-0093

**NOVEMBER 7, 2024**

**PREPARED BY:**  
**NATHAN L. JACOBSON & ASSOCIATES, INC.**  
CONSULTING CIVIL AND ENVIRONMENTAL ENGINEERS SINCE 1972  
CHESTER, CONNECTICUT

## **Project Location and Existing Conditions**

Martin Road is a 2.3-mile long Town road that extends from its westerly end at the Town boundary with Marlborough to CT Route 85 at the easterly end. Along with providing local access, it is a major east-west connector from Route 85 through Hebron to CT Route 2 in Marlborough. It is one of the few Town roads in the Town of Hebron that is classified as a Major Collector Road.

The existing condition of the roadway pavement surface is significantly distressed and needs reconstruction. There are areas of the road with inadequate pavement cross-slope, poor surface drainage and lack sub-surface drainage that have exacerbated pavement failure and continue to create ponding and icing conditions.

There are 18 separate culverts or storm drainage systems within the limits of the road improvement project. Two of the major culverts and some of the drainage systems are in disrepair ranging from deteriorated catch basin tops to failing corrugated metal pipe or culverts. Several of the culvert inlet and outlet conditions have roadside slopes with inadequate guiderail. There are two areas within the project area that have poor roadside drainage resulting in erosion, undermining pavement, or uncontrolled surface flow.

## **Project Description and Proposed Improvements**

To address the existing deficiencies described above, the scope of the project includes the following:

- Full depth reclamation, regrading, and repaving of the entire roadway. The reconstructed road will generally maintain the existing horizontal alignment with adjustments in the width and vertical alignment to maintain a uniform 24' width and consistent cross-section.
- Replacement of two failing corrugated metal pipe culverts with concrete box culverts.
- Repair or installation of storm drainage systems including catch basin inlets, piping and outlet protection where needed including systems located west of Porter Road and east of Winthrop Drive.
- Installation of underdrains where warranted by high seasonal groundwater conditions.
- Replacement of guiderail or installation of new guiderail where warranted.
- Replacement of storm drainage and configuration of the intersection with West Street to improve alignment and reduce turning radii to minimize excess paved area.
- Shoulder regrading and clearing to improve sight lines near Route 85 and at Olde Hall Road.

Alternatives considered to this level of improvement were to reclaim and repave the roadway surface. However, not addressing all of the underlying deficiencies would require future excavations to replace failing culverts and a shortened pavement life due to poor drainage and sub drainage.

### **Culvert Replacement and Wetland Impacts**

There are three areas of direct wetland impact over the extent of the project. An existing corrugated metal pipe culvert located at the low point between West Street and the Marlborough Town Line will be replaced with a 6.5' span x 4.5' rise precast concrete box culvert. This is identified on the project plans as Culvert 1. An existing 36" reinforced concrete pipe culvert located the intersections with Winthrop Drove and Olde Hall Road will be replaced with a 11' span x 4.5' rise precast concrete box culvert. This is identified on the plans as Culvert 2. A minor wetland encroachment occurs on the north side of the road between Gilead Street and Porter Road associated with the placement of new guiderail and minor roadside regrading.

As noted above, there are numerous other existing culvert crossings at various locations throughout the length of the road. Inland Wetlands on each side of the road have been flagged and work associated with the road repairs, installation of guiderail, and minor shoulder grading will be with the upland review zones, however these activities do not include any direct wetland impacts.

The two culverts being replaced are hydraulically inadequate and structural deficient. The sizing and configuration of the new culverts is dictated by the Army Corps Of Engineers Stream Crossing Best Management Practices for the applicable General Permit.

Impacts during construction will be mitigated with temporary soil erosion and sediment controls which are detailed on the project plans. Temporary by-pass piping for each crossing is required to minimize in-stream impacts and is also detailed on the plans along with required water handling measures. A detailed construction sequence is included on the plans in the Erosion Control Note and Details.

### **Other Environmental Permits and Reviews**

As noted above, the two major culvert replacements are subject to an Army Corps of Engineers General Permit (GP 19) for activities within the State of Connecticut which include, under this category of permit, stream river and brook crossings. Because of the minimal wetland disturbance, compliance with stream crossing best management practices, and adherence to some other qualifying thresholds, the activities are permitted under the category of Self-Verification.

A review of the CTDEEP Natural Diversity Data Base indicates no presence of threatened or endangered species within the project area.

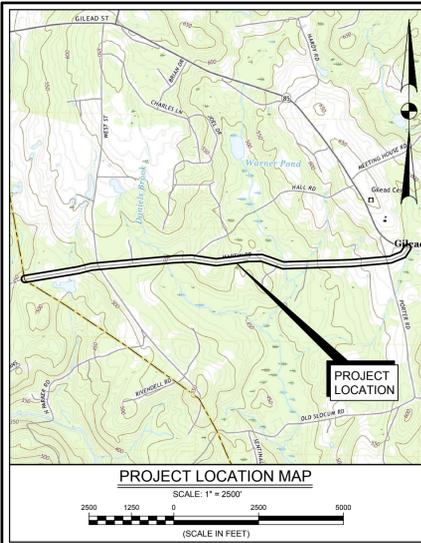
The project has been submitted to the State Historic Preservation office with an opinion received that no historic properties will be affected by this project.

A CTDEEP Fisheries Consultation Form has been submitted for the two culverts with a determination received that the proposed work will not significantly impact any fisheries and/or habitat subject to recommendations which have been followed in the project design.

A public informational meeting was held for the project on September 21, 2022 at which time public comment was sought and considered in the project design.

### **Project Funding and Schedule**

The project is being funded for construction by a Local Transportation Capital Improvement Grant in the amount \$3,942,000. The project is ready for 90% design review submittal, with the anticipated construction schedule to begin summer 2025 and possibly extend into 2026.



PLAN SHEETS LEGEND	
<b>Existing</b>	<b>PROPOSED</b>
---100---	INDEX CONTOUR
---98---	INTERMEDIATE CONTOUR
+99.0	SPOT ELEVATION
	CONIFEROUS TREE
	DECIDUOUS TREE
	SHRUB
	LANDSCAPING
	STUMP
	BOULDER - ROCK
	LEDGE
	STONEWALL
	EDGE OF WATER
	WETLAND FLAG
	WETLAND LINE
	MAILBOX
	POST
	SIGN - MARKER POST
	REFLECTOR POST
	BIT. CONC. CURBING
	EDGE OF GRAVEL
	EDGE OF PAVEMENT
	CHAIN LINK FENCE
	WIRE FENCE
	WOOD FENCE
	GUIDE RAIL
	AERIAL UTILITY
	UTILITY POLE
	UTILITY POLE WIGWAG
	CATCH BASIN
	FLARED END SECTION
	MANHOLE
	DRAINAGE PIPE
	SURVEY MONUMENT
	SURVEY CONTROL
	PROPERTY LINE
	STREET LINE
	ASSUMED PROPERTY LINE
	ASSUMED STREET LINE
	EASEMENT LINE
	PERMANENT EASEMENT
	TEMPORARY EASEMENT
	SEDIMENT BARRIER
	BITUMINOUS CONCRETE PAVEMENT
	RIPRAP

INLAND WETLANDS  
PERMITTING  
NOVEMBER 2024

# TOWN OF HEBRON



CONNECTICUT

# MARTIN ROAD IMPROVEMENTS

## LOT CIP #L066-0003

BOARD OF SELECTMEN

PETER D. KASPER, CHAIRMAN  
DANIEL E. LARSON, VICE-CHAIRMAN  
TIFFANY V. THIELE  
KEITH C. PETIT  
CLAUDIA T. RILEY

DIRECTOR OF PLANNING AND DEVELOPMENT

MATTHEW BORDEAUX

TOWN MANAGER

ANDREW J. TIERNEY

DIRECTOR OF PUBLIC WORKS

PAUL J. FORREST

### ABBREVIATIONS

Bit	BITUMINOUS
Com	COMMUNICATIONS
Conc	CONCRETE
CL&P	CONNECTICUT LIGHT AND POWER
CMP	CORRUGATED METAL PIPE
CP&P	HIGH DENSITY POLYETHYLENE PIPE
CPET	HIGH DENSITY POLYETHYLENE PIPE
EI	ELEVATION
EVR	EVERSOURCE ENERGY
FTR	FRONTIER COMMUNICATIONS
Invt	INVERT
IP	IRON PIPE/IN
IR	IRON ROD
LF	LINEAR FEET
Mk	MARKING
Mon	MONUMENT
NF	NOW OR FORMERLY
Pavmt	PAVEMENT
PVC	POLYVINYL CHLORIDE
RCFE	REINFORCED CONCRETE FLARED END
RCF	REINFORCED CONCRETE DRAINAGE PIPE
Ret	RETAINING
Rd	ROAD
SN&T	SOUTHERN NEW ENGLAND TELEPHONE COMPANY
St	STREET
T.F.	TOP OF FRAME
T.O.W.	TOP OF WALL
TYP	TYPICAL
WF	WETLAND FLAG

### SCHEDULE OF DRAWINGS

SHEET No.	TITLE
C0.00	COVER SHEET
C0.01	INDEX PLAN AND GENERAL NOTES
C1.00	TOPOGRAPHIC SURVEY STA. 10+00.00 TO STA. 43+00.00
C1.01	TOPOGRAPHIC SURVEY STA. 43+00.00 TO STA. 76+00.00
C1.02	TOPOGRAPHIC SURVEY STA. 76+00.00 TO STA. 109+00.00
C1.03	TOPOGRAPHIC SURVEY STA. 109+00.00 TO STA. 127+14.50
<del>C2.00</del>	<del>DEMOLITION PLAN AND LAYOUT PLAN STA. 10+00.00 TO STA. 21+00.00</del>
<del>C2.01</del>	<del>DEMOLITION PLAN AND LAYOUT PLAN STA. 21+00.00 TO STA. 32+00.00</del>
<del>C2.02</del>	<del>DEMOLITION PLAN AND LAYOUT PLAN STA. 32+00.00 TO STA. 43+00.00</del>
<del>C2.03</del>	<del>DEMOLITION PLAN AND LAYOUT PLAN STA. 43+00.00 TO STA. 54+00.00</del>
<del>C2.04</del>	<del>DEMOLITION PLAN AND LAYOUT PLAN STA. 54+00.00 TO STA. 65+00.00</del>
<del>C2.05</del>	<del>DEMOLITION PLAN AND LAYOUT PLAN STA. 65+00.00 TO STA. 76+00.00</del>
<del>C2.06</del>	<del>DEMOLITION PLAN AND LAYOUT PLAN STA. 76+00.00 TO STA. 87+00.00</del>
<del>C2.07</del>	<del>DEMOLITION PLAN AND LAYOUT PLAN STA. 87+00.00 TO STA. 98+00.00</del>
<del>C2.08</del>	<del>DEMOLITION PLAN AND LAYOUT PLAN STA. 98+00.00 TO STA. 109+00.00</del>
<del>C2.09</del>	<del>DEMOLITION PLAN AND LAYOUT PLAN STA. 109+00.00 TO STA. 120+00.00</del>
<del>C2.10</del>	<del>DEMOLITION PLAN AND LAYOUT PLAN STA. 120+00.00 TO STA. 127+14.50</del>
<del>C2.11</del>	<del>WEST STREET INTERSECTION SITE PLAN</del>
<del>C2.12</del>	<del>OLDE HALL ROAD AND HEATHSTONE DRIVE INTERSECTION SITE PLAN</del>
<del>C2.13</del>	<del>FORSTER ROAD INTERSECTION SITE PLAN</del>
C3.00	GRADING PLAN AND PROFILE STA. 10+00.00 TO STA. 21+00.00
C3.01	GRADING PLAN AND PROFILE STA. 21+00.00 TO STA. 32+00.00
C3.02	GRADING PLAN AND PROFILE STA. 32+00.00 TO STA. 43+00.00
C3.03	GRADING PLAN AND PROFILE STA. 43+00.00 TO STA. 54+00.00
C3.04	GRADING PLAN AND PROFILE STA. 54+00.00 TO STA. 65+00.00
C3.05	GRADING PLAN AND PROFILE STA. 65+00.00 TO STA. 76+00.00
C3.06	GRADING PLAN AND PROFILE STA. 76+00.00 TO STA. 87+00.00
C3.07	GRADING PLAN AND PROFILE STA. 87+00.00 TO STA. 98+00.00
C3.08	GRADING PLAN AND PROFILE STA. 98+00.00 TO STA. 109+00.00
C3.09	GRADING PLAN AND PROFILE STA. 109+00.00 TO STA. 120+00.00
C3.10	GRADING PLAN AND PROFILE STA. 120+00.00 TO STA. 127+14.50
<del>C4.00</del>	<del>INTERSECTING ROAD PROFILES</del>
C4.00	EROSION AND SEDIMENT CONTROL NOTES
C4.01	EROSION AND SEDIMENT CONTROL DETAILS
<del>C5.00</del>	<del>STORM DRAINAGE DETAILS</del>
<del>C6.00</del>	<del>DETAILS</del>
<del>C6.01</del>	<del>DEFOUR PLAN - PHASE 1 AND CONSTRUCTION ROAD CLOSURE PLANS</del>
<del>C6.02</del>	<del>DEFOUR PLAN - PHASE 2 AND 3</del>
C7.00	CULVERT 1 SITE PLAN
C7.01	CULVERT 1 GENERAL PLAN
C7.02	CULVERT 1 TEMPORARY STORMWATER BYPASS PLAN
C7.03	CULVERT 1 DETAILS, WINGWALL PLANS AND ELEVATIONS AND DETAILS
C8.00	CULVERT 2 SITE PLAN
C8.01	CULVERT 2 GENERAL PLAN
C8.02	CULVERT 2 TEMPORARY STORMWATER BYPASS PLAN
C8.03	CULVERT 2 DETAILS
<del>C8.04</del>	<del>CULVERT GENERAL DETAILS</del>
<del>C8.05</del>	<del>ENDWALL DETAILS</del>
<del>C8.06</del>	<del>CROSS SECTIONS STA. 11+00.00 TO STA. 16+00.00</del>
<del>C8.07</del>	<del>CROSS SECTIONS STA. 17+00.00 TO STA. 24+00.00</del>
<del>C8.08</del>	<del>CROSS SECTIONS STA. 25+00.00 TO STA. 27+00.00</del>
<del>C8.09</del>	<del>CROSS SECTIONS STA. 28+00.00 TO STA. 32+00.00</del>
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<del>C8.11</del>	<del>CROSS SECTIONS STA. 39+00.00 TO STA. 43+00.00</del>
<del>C8.12</del>	<del>CROSS SECTIONS STA. 44+00.00 TO STA. 49+00.00</del>
<del>C8.13</del>	<del>CROSS SECTIONS STA. 50+00.00 TO STA. 54+00.00</del>
<del>C8.14</del>	<del>CROSS SECTIONS STA. 55+00.00 TO STA. 60+00.00</del>
<del>C8.15</del>	<del>CROSS SECTIONS STA. 61+00.00 TO STA. 65+00.00</del>
<del>C8.16</del>	<del>CROSS SECTIONS STA. 66+00.00 TO STA. 71+00.00</del>
<del>C8.17</del>	<del>CROSS SECTIONS STA. 72+00.00 TO STA. 76+00.00</del>
<del>C8.18</del>	<del>CROSS SECTIONS STA. 77+00.00 TO STA. 82+00.00</del>
<del>C8.19</del>	<del>CROSS SECTIONS STA. 83+00.00 TO STA. 87+00.00</del>
<del>C8.20</del>	<del>CROSS SECTIONS STA. 88+00.00 TO STA. 93+00.00</del>
<del>C8.21</del>	<del>CROSS SECTIONS STA. 94+00.00 TO STA. 98+00.00</del>
<del>C8.22</del>	<del>CROSS SECTIONS STA. 99+00.00 TO STA. 104+00.00</del>
<del>C8.23</del>	<del>CROSS SECTIONS STA. 105+00.00 TO STA. 109+00.00</del>
<del>C8.24</del>	<del>CROSS SECTIONS STA. 110+00.00 TO STA. 115+00.00</del>
<del>C8.25</del>	<del>CROSS SECTIONS STA. 116+00.00 TO STA. 120+00.00</del>
<del>C8.26</del>	<del>CROSS SECTIONS STA. 121+00.00 TO STA. 127+14.50</del>

### CTDOT STANDARD DRAWINGS

SHEET No.	TITLE
HW-206-01	DRAINAGE TRENCH EXCAVATION
HW-505-01a	STRAIGHT ENDWALLS
HW-505-01b	PRECAST ENDWALLS FOR STRAIGHT ENDWALLS (S-DRIFT BASE TO FLOWLINE)
HW-505-02	CATCH BASIN AND ROUND MANHOLE TYPES FOR DOUBLE GRATE TYPE II STRUCTURES
HW-505-03	CATCH BASIN TYPES 10" AND 10-L" FOR DOUBLE GRATE TYPE II STRUCTURES
HW-505-04	PRECAST CATCH BASIN AND ROUND STRUCTURE
HW-505-05	CATCH BASIN TYPE 10" AND 10-L TOP
HW-505-06	PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE I
HW-505-07a	PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE I
HW-505-07b	CATCH BASIN TYPE 10" AND 10-L DOUBLE GRATE TYPE I TOPS
HW-505-07c	CATCH BASIN TYPE 10" AND 10-L DOUBLE GRATE TYPE I TOPS
HW-505-08	CATCH BASIN TYPE 10" AND 10-L BARRIER CURB TOPS
HW-505-09	CATCH BASIN FRAMES AND GRATES
HW-505-10a	MANHOLE FRAME AND COVER
HW-505-10b	REINFORCED PRECAST CONCRETE MANHOLE
HW-505-11a	CONCRETE PIPE CONNECTION SHEET 1
HW-505-11b	CONCRETE PIPE CONNECTION SHEET 2
HW-751-01	UNDERDRAIN AND UNDERDRAIN OUTLETS
HW-910-01	CONCRETE CURBING
HW-922-01	TEMPORARY PRECAST CONCRETE BARRIER CURB
HW-910-11	CURVED UNDERDRAIN TREATMENT DETAIL
HW-910-17	R/D TERMINAL SECTION
HW-910-20	MASH W-BEAM HARDWARE
HW-910-21	METAL BEAM RAIL (R-D MASH) GUIDERAIL
HW-910-23	METAL BEAM RAIL (R-D MASH) HALF & QUARTER POST GRACING GUIDERAIL
HW-910-25	METAL BEAM RAIL TRANSITION 550 TO MASH
HW-910-27	R/D END AND/OR RAMP PIPE AND R/D
TR-1500-01	SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS
TR-1200-02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS
TR-1220-01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS
TR-1220-02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES

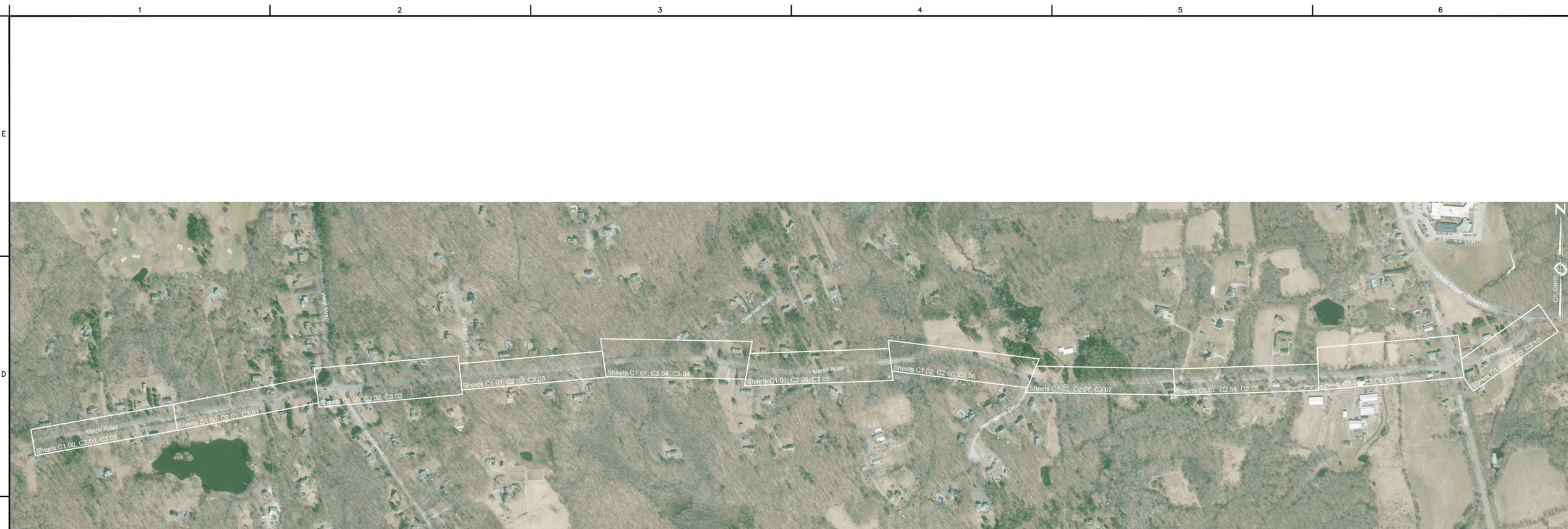
### NOTE:

DRAWINGS INCLUDED FOR INLAND WETLANDS PERMIT APPLICATION SUBMISSION IN SCHEDULE OF DRAWINGS NOT CROSSED OUT

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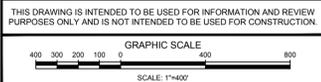


AARON L. MORTENSEN, P.E.  
CT REGISTRATION No. 27169



INDEX PLAN

NOTES:  
1. SEE GENERAL NOTES, SHEET C0.1.



TOWN OF  
HEBRON, CONNECTICUT

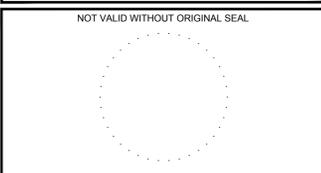
MARTIN ROAD  
IMPROVEMENTS

INDEX PLAN  
AND  
GENERAL NOTES

INLAND WETLANDS  
PERMITTING

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REVISIONS		
No.	DESCRIPTION	DATE

DATE:	NOVEMBER 2024	SHEET No.:
SCALE:	1"=400'	
PROJECT No.:	06480093	
CADD FILE:	06840093INDEX	
DESIGNED:	ALM	
DRAWN:	AJG	
CHECKED:	-	C0.01

GENERAL NOTES:

DRAWING NOTES

- IN GENERAL, Lower Case Text Identifies Existing Features/Conditions.
  - IN GENERAL, UPPER CASE TEXT IDENTIFIES PROPOSED FEATURES/CONDITIONS UNLESS OTHERWISE SPECIFIED.
  - SURVEY CONTROL HAS BEEN PROVIDED FOR CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE VALIDITY OF THE SURVEY CONTROL.
  - NOTES ARE WRITTEN IN IMPERATIVE MOOD AND DIRECTED AT THE CONTRACTOR.
- RESPONSIBILITIES**
- BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES AND FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
  - BE SOLELY RESPONSIBLE FOR PROTECTION OF PERSONS AND THE PUBLIC IN GENERAL, THE WORK TO BE PERFORMED UNDER THE CONTRACT, PUBLIC AND PRIVATE PROPERTY, AND EASEMENTS AND RIGHTS-OF-WAY DURING THE COURSE OF THE WORK OF THE CONTRACTOR AND HIS SUBCONTRACTORS.
  - TAKE ALL NECESSARY PRECAUTIONS AND FURNISH EQUIPMENT AS REQUIRED TO HANDLE ALL SURFACE, SUBSURFACE AND FLOOD FLOWS WHICH MAY BE ENCOUNTERED AT ANY TIME DURING CONSTRUCTION.
  - BE RESPONSIBLE FOR ALL DEWATERING REQUIRED TO COMPLETE THE WORK INCLUDED UNDER THE CONTRACT, INCLUDING BUT NOT LIMITED TO, TRENCHES, EXCAVATIONS, AND WATER CONTROL STRUCTURES WHICH MAY BE REQUIRED TO PROPERLY COMPLETE THE WORK INCLUDED UNDER THE CONTRACT (PARTICULAR ATTENTION IS CALLED TO FLUCTUATIONS IN WATER FLOWS AND LEVELS THAT MAY OCCUR DUE TO PRECIPITATION EVENTS; NO EXTRA COMPENSATION WILL BE ALLOWED DUE TO WATER FLOW OR LEVEL FLUCTUATIONS).
  - BE SOLELY RESPONSIBLE FOR, AND PAY ALL COSTS, FOR SECURITY OF THE CONSTRUCTION SITE UNTIL ALL CONSTRUCTION IS COMPLETE.
  - ARRANGE AND PAY FOR THE PROVISIONS AND USE OF ELECTRICAL POWER, POTABLE WATER AND SANITARY FACILITIES REQUIRED DURING THE CONSTRUCTION OF THE PROJECT.
  - A SPECIFIC WRITTEN PLAN FOR THE SEQUENCE OF CONSTRUCTION SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL WITH RESPECT TO PERMIT REQUIREMENTS OF THE REGULATORY AGENCIES HAVING JURISDICTION. AN EXAMPLE OF THE MINIMUM DETAIL REQUIRED CAN BE FOUND IN THE NARRATIVE ON THE EROSION AND SEDIMENT CONTROL NOTES DRAWING (NOTE: THIS IS A MINIMUM GUIDELINE ONLY. A SPECIFIC CONSTRUCTION SEQUENCE SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL WITH RESPECT TO PERMIT REQUIREMENTS).

- PAY FOR TESTING REQUIRED FOR SUBMITTALS AND FIELD QUALITY CONTROL TESTING. OWNER MAY PAY FOR ADDITIONAL FIELD QUALITY ASSURANCE TESTING, AS THEY DEEM NECESSARY. COORDINATE WITH TESTING LABORATORY WHETHER ON BEHALF OF CONTRACTOR OR ON BEHALF OF OWNER. PROVIDE OWNER WITH TESTING LABORATORY REPORTS.

ENVIRONMENTAL

- COMPLY WITH ALL REQUIREMENTS PERTAINING TO CONSTRUCTION WORK AT THE PROJECT SITE CONTAINED IN PERMITS ISSUED FOR THE PROJECT FROM THE U.S. ARMY CORPS OF ENGINEERS, AND THE LOCAL INLAND WETLANDS AND WATERCOURSE COMMISSION. SEE PROJECT MANUAL.
- PROVIDE AND MAINTAIN OIL ABSORBENT SPILL RESPONSE BOOMS AND BLANKETS ON SITE FOR THE ENTIRE CONSTRUCTION PERIOD. NO CONSTRUCTION VEHICLES SHALL BE STORED, SERVICED, REFUELED, WASHED, OR FLUSHED OUT IN A LOCATION WHERE LEAKS, SPILLAGE, WASTE MATERIALS, CLEANERS, OR WATERS WILL BE INTRODUCED OR FLOW INTO WETLANDS OR WATERCOURSES.
- NO EQUIPMENT STORAGE, CLEANING, REPAIRING OR REFUELING SHALL BE CONDUCTED WITHIN 100' OF AN INLAND WETLAND BOUNDARY. SHOULD ANY CONTAMINANT SPILL OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, OIL AND CHEMICAL SPILL RESPONSE DIVISION AT 860-424-3338 AND THE OWNER'S AGENT.
- DURING CONSTRUCTION, ROUTINE EQUIPMENT MAINTENANCE AND REFUELING SHALL OCCUR ON AN IMPERVIOUS SURFACE WITH OIL ABSORBENT SPILL RESPONSE MATERIALS IN PLACE. NON-ROUTINE MAINTENANCE OF EQUIPMENT SHALL BE CONDUCTED OFF-SITE. SHOULD ANY CONTAMINANT SPILL OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, OIL AND CHEMICAL SPILL RESPONSE DIVISION AT 860-424-3338 AND THE OWNER'S AGENT.
- BULK FUEL FOR CONSTRUCTION PURPOSES SHALL NOT BE STORED ON SITE.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL STORE ALL HAZARDOUS MATERIALS OFF-SITE, OR IF ON-SITE, THEN WITHIN A SECONDARY CONTAINMENT STRUCTURE IN A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR, THAT WILL BE SECURED DURING NON-WORKING HOURS.
- SWEEP AND KEEP CLEAN ROADS IMPACTED BY TRACKED SOILS FROM THE CONSTRUCTION SITE AT ALL TIMES, OR AT THE DISCRETION OF THE ENGINEER.
- EROSION CONTROL PRODUCTS WITH NETTING (INCLUDING BIODEGRADABLE NETTING) ARE NOT PERMITTED FOR USE.

CLEARING

- REMOVE AND TRIM TREES AND OTHER WOODY VEGETATION AND GRUB STUMPS AS NECESSARY FOR THE CONSTRUCTION. ALL VEGETATION REQUIRED FOR TRIMMING AND REMOVAL MAY NOT BE SHOWN ON PLANS.
- KEEP SITE DISTURBANCE TO A MINIMUM. PROTECT ALL TREES UNLESS OTHERWISE SHOWN OR AUTHORIZED BY THE ENGINEER. TREES TO BE REMOVED SHALL BE INDIVIDUALLY VERIFIED IN THE

FIELD WITH THE ENGINEER. PROVIDE TREE PROTECTION FOR TREES IDENTIFIED TO BE PROTECTED ON PLANS.

EARTHWORK

- EXCEPT AS NOTED BELOW, PROPOSED FILL SHALL BE REUSED SUBSOIL, DECOMPOSED ROCK OR ROCK, FREE OF DEBRIS, ORGANIC AND TOXIC MATERIAL.
- CUT/FILL SLOPES IN EARTH SHALL BE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL, UNLESS OTHERWISE DETERMINED BY THE ENGINEER.
- SURPLUS OR UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL ORDINANCES, RULES, REGULATIONS AND CODES.
- FURNISH AND INSTALL TIGHTLY SEALED TEMPORARY SHEETING AND/OR BRACING AS NECESSARY TO COMPLY WITH APPLICABLE FEDERAL AND STATE SAFETY CODES, TO PROTECT ADJACENT STRUCTURES AND ALL EXISTING UTILITIES. TO PROVIDE AN OPENING OF PROPER DEPTH AND WIDTH IN WHICH TO INSTALL THE PROPOSED WORK, AND TO PROTECT WORKMEN AND THE PUBLIC FROM DEATH OR INJURY FROM BANK FAILURE, EARTH COLLAPSE OR EARTH MOVEMENT OF ANY NATURE. CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR THE DESIGN, ADEQUACY AND SAFETY OF THE SHEETING, BRACING, SHORING, ETC.
- ALL EXCAVATIONS, UNEVEN GROUND OR HAZARDOUS CONDITIONS SHALL HAVE CONSTRUCTION BARRICADES OR FENCING ERECTED TO EXCLUDE UNAUTHORIZED PERSONNEL.

PAVEMENTS AND CURBING

- PAVEMENTS TO BE CUT SHALL BE SAW CUT. PRIOR TO PAVING, CLEAN FACE OF EXISTING PAVEMENT AND PAINT WITH TACK COAT. MATCH EXISTING GRADES WITH NEW PAVEMENT.
- NEATLY REMOVE, STORE AND PROTECT AS APPLICABLE, AND REINSTALL OR REPLACE AS APPLICABLE, EXISTING SITE FEATURES DISTURBED BY CONSTRUCTION, REQUIRED FOR THE FINISHED CONSTRUCTION.
- LIMITS OF PROPOSED PAVEMENT SURFACES FOR BOTH ROADWAYS AND DRIVEWAY APRONS SHALL MATCH GRADE AT EXISTING PAVEMENT SURFACE LEFT IN-PLACE, UNLESS OTHERWISE NOTED.
- CURBING SHALL END WITH CURB KNIFE EDGES WHEN NOT CONNECTING TO EXISTING CURB.

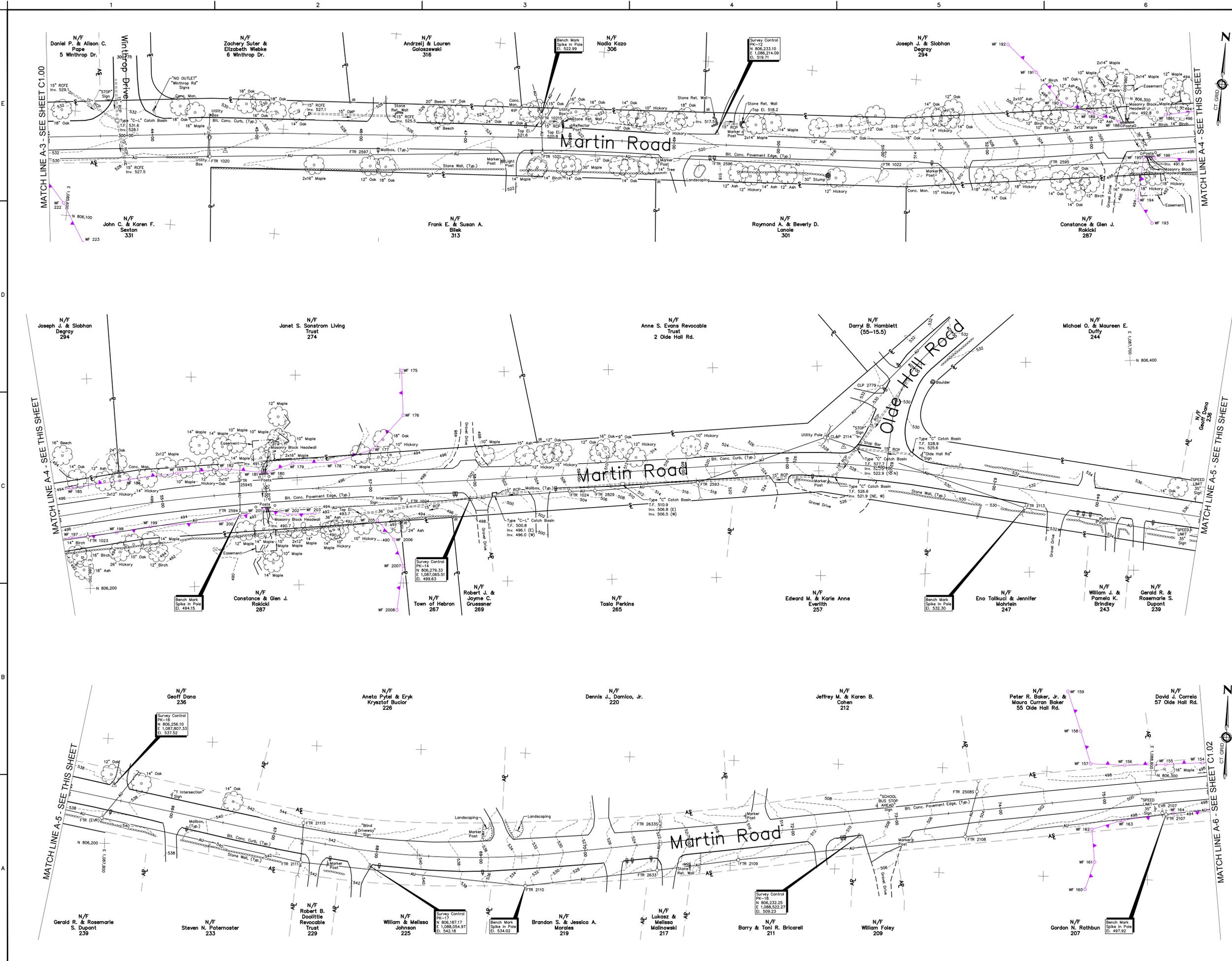
UNDERGROUND UTILITIES

- FOR LOCATION OF UNDERGROUND ELECTRIC, TELEPHONE, GAS, CABLE TV, AND OTHER FACILITIES OF PUBLIC UTILITY COMPANIES, INQUIRE OF "CALL BEFORE YOU DIG, INC." AT 1-800-922-4465, OR WWW.CBYD.COM.
- FOR LOCATION OF UNDERGROUND UTILITIES ON PRIVATE PROPERTY, ARRANGE AND PAY FOR LOCATING THEM THROUGH A PRIVATE UTILITY LOCATING COMPANY.
- COORDINATE THE RELOCATION/PROTECTION OF ALL UTILITIES.

COORDINATE UTILITY WORK, WHETHER PUBLICLY OR PRIVATELY OWNED, SO AS NOT TO DELAY THE PROGRESS OF THE WORK. PROTECT AND MAINTAIN ALL EXISTING UTILITIES LOCATED WITHIN THE VICINITY OF THE CONSTRUCTION SITE. UNLESS OTHERWISE NOTED, IF ANY UTILITY IS DAMAGED OR SERVICE INTERRUPTED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES INCLUDING RESTORING SERVICE IN A SAFE MANNER, TO THE COMPLETE SATISFACTION OF THE UTILITY OWNER AND THE ENGINEER.

- UTILITY INTERRUPTIONS SHALL RECEIVE THE PRIOR WRITTEN AUTHORIZATION OF THE UTILITY OWNER.
- INFORMATION OR DATA SHOWN ON OR INDICATED IN THE CONTRACT DOCUMENTS WITH RESPECT TO EXISTING UNDERGROUND PIPES, CABLES, CONDUITS, STRUCTURES OR OTHER UNDERGROUND FACILITIES IS BELIEVED TO BE REASONABLY CORRECT BUT IS NOT GUARANTEED TO BE EXACT OR COMPLETE. SUCH INFORMATION SHALL BE CONSIDERED TO HAVE BEEN PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND TO ALERT THE CONTRACTOR TO THE EXISTENCE OF SUCH UNDERGROUND FACILITIES WITHIN OR CONTIGUOUS TO THE PROJECT SITE AND THE OWNER. ENGINEER AND THEIR CONSULTANTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA.
- THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL INFORMATION AND DATA DESCRIBED IN THE NOTE ABOVE, FOR LOCATING ALL SUCH UNDERGROUND FACILITIES SHOWN OR INDICATED IN THE CONTRACT DOCUMENTS, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, FOR THE SAFETY AND PROTECTION THEREOF, AND FOR REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL OF WHICH WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE.
- FOR DESIGN PURPOSES, EXISTING PIPES BETWEEN STORM DRAINAGE AND SANITARY SEWER STRUCTURES WERE ASSUMED TO HAVE CONSTANT SLOPES. PROPOSED INVERT ELEVATIONS SHOWN CONNECTING EXISTING PIPES MAY THEREFORE VARY IF EXISTING PIPE SLOPES ARE NOT CONSTANT. CONTRACTOR SHALL VERIFY ELEVATIONS IN THE FIELD AT ALL PROPOSED CONNECTION LOCATIONS AND ADVISE THE ENGINEER OF ANY DISCREPANCIES FOUND.
- EXISTING STRUCTURES TO BE REMOVED ARE NOT SHOWN IN PROFILE VIEW FOR CLARITY PURPOSES.
- STRUCTURES SHOWN IN PROFILE VIEWS ARE LIMITED TO STRUCTURE LOCATED WITHIN THE ROADWAY FOR CLARITY.
- PROVIDE SOLID CAPS TO BURIED UPSTREAM UNDERDRAIN INVERTS WHEN NOT CONNECTING TO A DRAINAGE STRUCTURE. PROVIDE RODENT SCREENS ON DOWNSTREAM INVERTS WHEN DAYLIGHTING AND NOT CONNECTING TO DRAINAGE STRUCTURE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CORRESPONDING DIAMETER "UNDERDRAIN" ITEM.





- NOTES:**
- THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AS A CLASS T-2 TOPOGRAPHIC SURVEY (VERTICAL ACCURACY CLASS V-2) AND A CLASS A-2 RIGHT OF WAY SURVEY.
  - UNDERGROUND OR OVERHEAD ENCROACHMENTS, STRUCTURES, AND SYSTEMS WERE NOT INVESTIGATED AS A PART OF THIS SURVEY, EXCEPT AS SHOWN OR NOTED HEREON.
  - STONE WALLS AND/OR FENCES MAY DEVIATE SLIGHTLY FROM PRINCIPAL COURSES SHOWN.
  - PERIPHERAL PROPERTY LINES OF ADJACENT OWNERS ARE SHOWN FOR GENERAL INFORMATION PURPOSES ONLY AND ARE NOT TO BE CONSTRUED AS BEING ACCURATELY LOCATED OR SHOWN HEREON.
  - HORIZONTAL DATUM IS NAD83. VERTICAL DATUM IS NAVD88.
  - PARCELS MAY BE SUBJECT TO SUCH RIGHTS AND EASEMENTS AS APPEAR OF RECORD OR ARE APPARENT BY USAGE. THIS SURVEY REFLECTS ENCUMBRANCES NOTICED AND DISCOVERED BY THE SURVEYOR IN THE NORMAL COURSE OF WORK AND DOES NOT NECESSARILY SHOW EVERY POSSIBLE CONDITION AFFECTING THE PROPERTY. EASEMENTS, SERVITUDES, LOCAL ORDINANCES, ZONING AND OTHER LEGAL ENCUMBRANCES MAY EXIST WHICH ARE NOT REFLECTED HEREON. CONSULT A TITLE ATTORNEY TO DISCOVER ALL LEGAL ENCUMBRANCES, IF ANY, ATTACHED TO THIS PROPERTY.
  - REFERENCE IS MADE TO VARIOUS MAPS ON FILE IN THE HEBRON LAND RECORDS.
  - WETLANDS BOUNDARIES DEPICTED WERE DELINEATED IN THE FIELD BY RICHARD SNARSKI, CPSS, ON NOVEMBER 16, 2021, AND LOCATED BY FIELD SURVEY.

THIS DRAWING IS INTENDED TO BE USED FOR INFORMATION AND REVIEW PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION.

GRAPHIC SCALE  
SCALE: 1"=40'

TOWN OF  
HEBRON, CONNECTICUT

MARTIN ROAD  
IMPROVEMENTS

TOPOGRAPHIC  
SURVEY

INLAND WETLANDS  
PERMITTING

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NOT VALID WITHOUT ORIGINAL SEAL

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

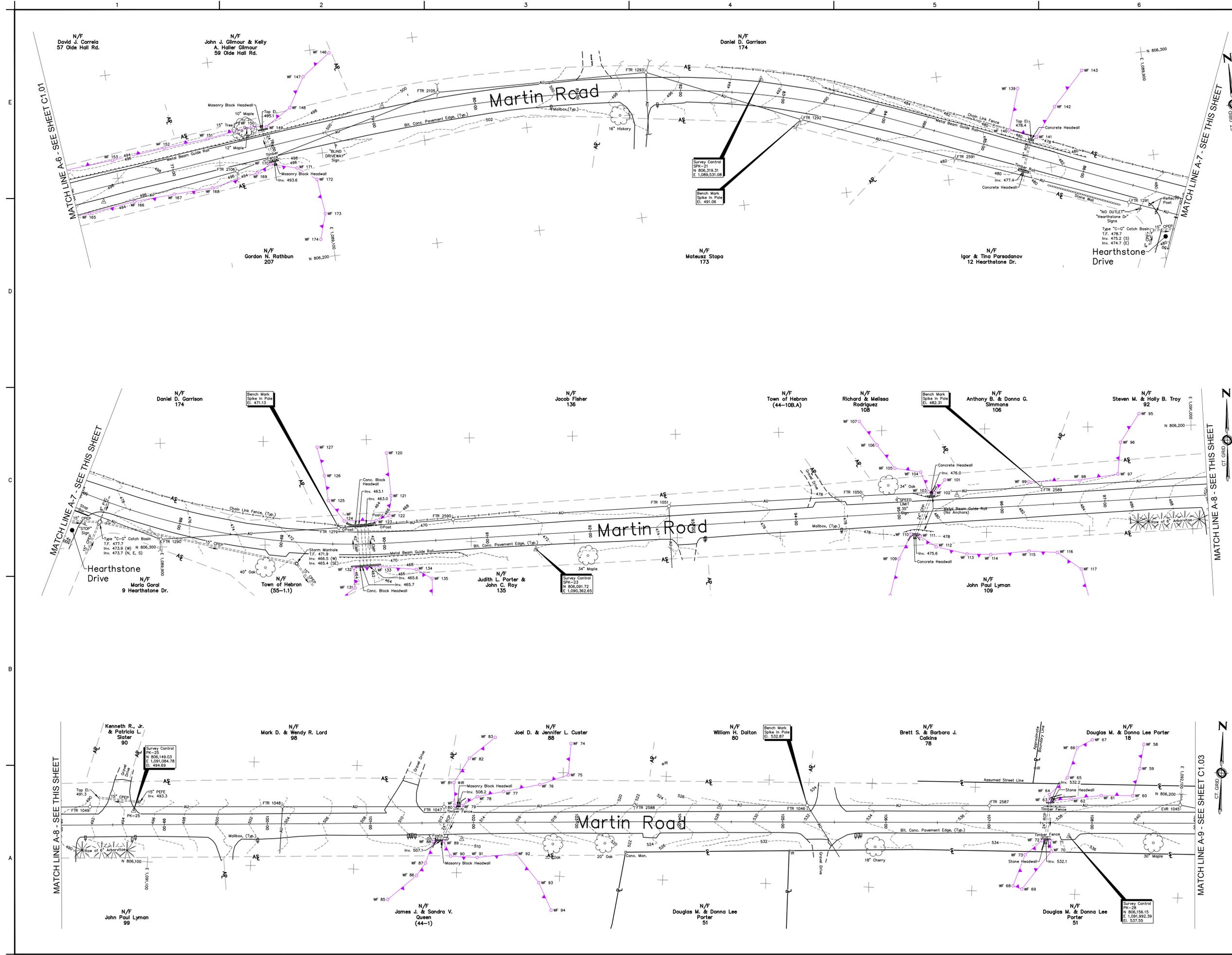
JEFFREY A. SANBORN, L.S.  
CT REGISTRATION No. 12883

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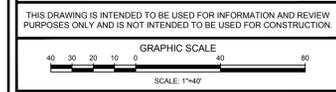
**REVISIONS**

No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024  
SCALE: 1"=40'  
PROJECT No.: 06480093  
CADD FILE: 06480093EX  
FIELD BOOK:  
DRAWN: AJG  
CHECKED:  
SHEET No.: C1.01



- NOTES:**
- THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AS A CLASS T-2 TOPOGRAPHIC SURVEY (VERTICAL ACCURACY CLASS V-2) AND A CLASS A-2 RIGHT OF WAY SURVEY.
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**TOWN OF HEBRON, CONNECTICUT**

**MARTIN ROAD IMPROVEMENTS**

**TOPOGRAPHIC SURVEY**

**INLAND WETLANDS PERMITTING**

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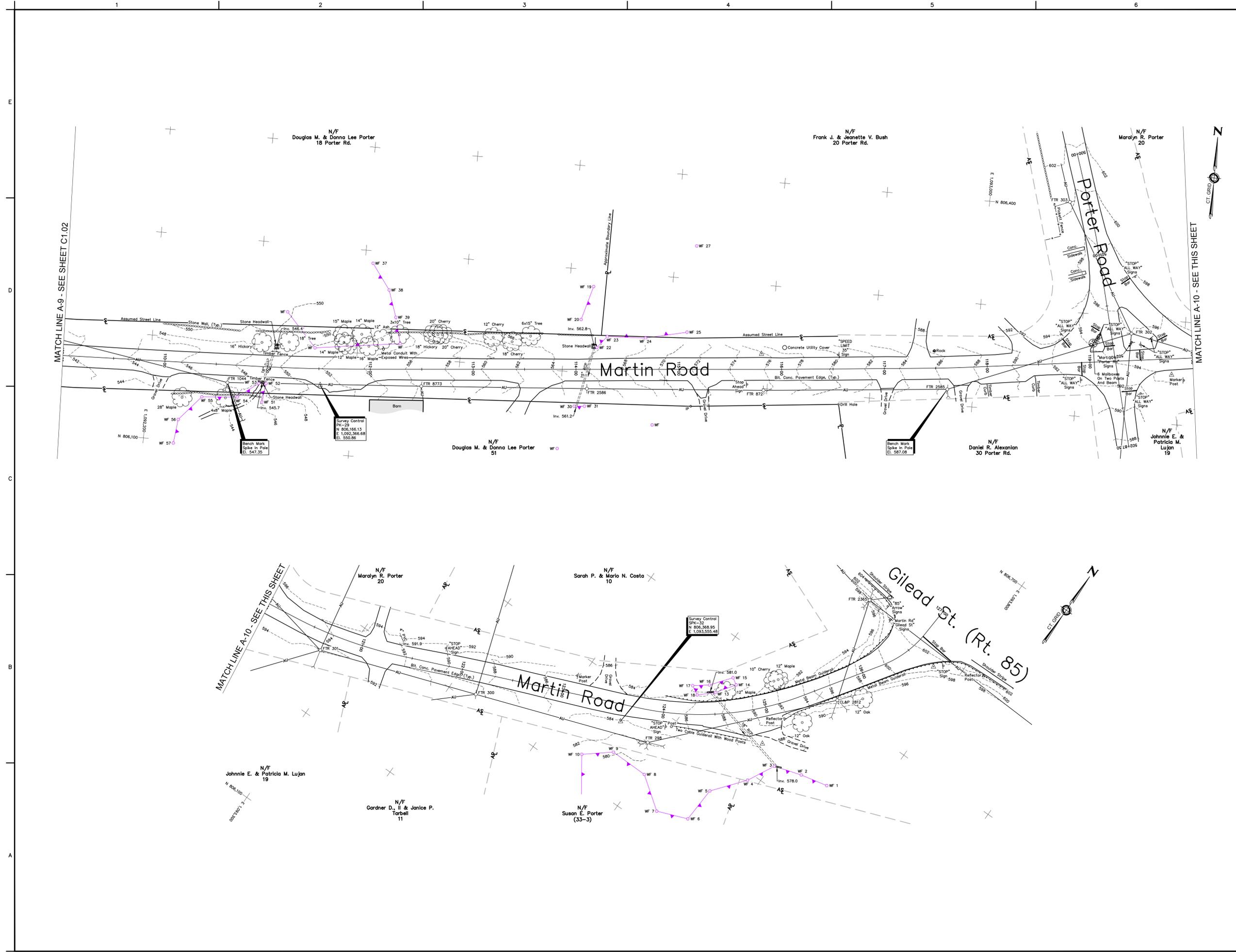
TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

JEFFREY A. SANBORN, L.S.  
CT REGISTRATION NO. 12883

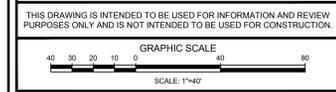
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REVISIONS		
No.	DESCRIPTION	DATE

DATE:	NOVEMBER 2024	SHEET No.:	<b>C1.02</b>
SCALE:	1"=40'		
PROJECT No.:	06480093		
CADD FILE:	06480093EX		
FIELD BOOK:	-		
DRAWN:	AJG		
CHECKED:	-		



- NOTES:**
- THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AS A CLASS T-2 TOPOGRAPHIC SURVEY (VERTICAL ACCURACY CLASS V-2) AND A CLASS A-2 RIGHT OF WAY SURVEY.
  - UNDERGROUND OR OVERHEAD ENCROACHMENTS, STRUCTURES, AND SYSTEMS WERE NOT INVESTIGATED AS A PART OF THIS SURVEY, EXCEPT AS SHOWN OR NOTED HEREON.
  - STONE WALLS AND/OR FENCES MAY DEVIATE SLIGHTLY FROM PRINCIPAL COURSES SHOWN.
  - PERIPHERAL PROPERTY LINES OF ADJACENT OWNERS ARE SHOWN FOR GENERAL INFORMATIONAL PURPOSES ONLY AND ARE NOT TO BE CONSTRUED AS BEING ACCURATELY LOCATED OR SHOWN HEREON.
  - HORIZONTAL DATUM IS NAD83. VERTICAL DATUM IS NAVD88.
  - PARCELS MAY BE SUBJECT TO SUCH RIGHTS AND EASEMENTS AS APPEAR OF RECORD OR ARE APPARENT BY USAGE. THIS SURVEY REFLECTS ENCUMBRANCES NOTICED AND DISCOVERED BY THE SURVEYOR IN THE NORMAL COURSE OF WORK AND DOES NOT NECESSARILY SHOW EVERY POSSIBLE CONDITION AFFECTING THE PROPERTY. EASEMENTS, SERVITUDES, LOCAL ORDINANCES, ZONING AND OTHER LEGAL ENCUMBRANCES MAY EXIST WHICH ARE NOT REFLECTED HEREON. CONSULT A TITLE ATTORNEY TO DISCOVER ALL LEGAL ENCUMBRANCES, IF ANY, ATTACHED TO THIS PROPERTY.
  - REFERENCE IS MADE TO VARIOUS MAPS ON FILE IN THE HEBRON LAND RECORDS.
  - WETLANDS BOUNDARIES DEPICTED WERE DELINEATED IN THE FIELD BY RICHARD SNARSKI, CPSS, ON NOVEMBER 16, 2021, AND LOCATED BY FIELD SURVEY.



**TOWN OF  
HEBRON, CONNECTICUT**

**MARTIN ROAD  
IMPROVEMENTS**

**TOPOGRAPHIC  
SURVEY**

**INLAND WETLANDS  
PERMITTING**

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Land Survey & Technical Services, Inc.  
88 Main Street P.O. Box 337  
Chester, Connecticut 06412-0337  
Tel: (860) 526-4522 Fax: (860) 526-5416  
www.njja.com  
An Affiliate of Nathan L. Jacobson & Associates, Inc.

NOT VALID WITHOUT ORIGINAL SEAL

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS  
SUBSTANTIALLY CORRECT AS NOTED HEREON.

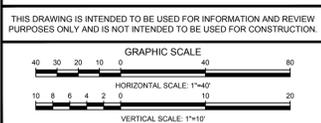
JEFFREY A. SANBORN, L.S.  
CT REGISTRATION No. 12883

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REVISIONS		
No.	DESCRIPTION	DATE

DATE:	NOVEMBER 2024	SHEET No.:
SCALE:	1"=40'	<b>C1.03</b>
PROJECT No.:	06480093	
CADD FILE:	06480093EX	
FIELD BOOK:	-	
DRAWN:	AJG	
CHECKED:	-	

- NOTES:
- SEE GENERAL NOTES, SHEET C0.1.
  - STORM DRAINAGE STRUCTURES AND PIPE SHALL BE PAID UNDER THE SPECIFIC ITEM WITH THE CLASSIFICATION OF "10" DEEP" UNLESS SPECIFIED OTHERWISE.



TOWN OF  
HEBRON, CONNECTICUT

MARTIN ROAD  
IMPROVEMENTS

GRADING PLAN  
AND PROFILE  
STA. 10+00.00 TO STA. 21+00.00

INLAND WETLANDS  
PERMITTING

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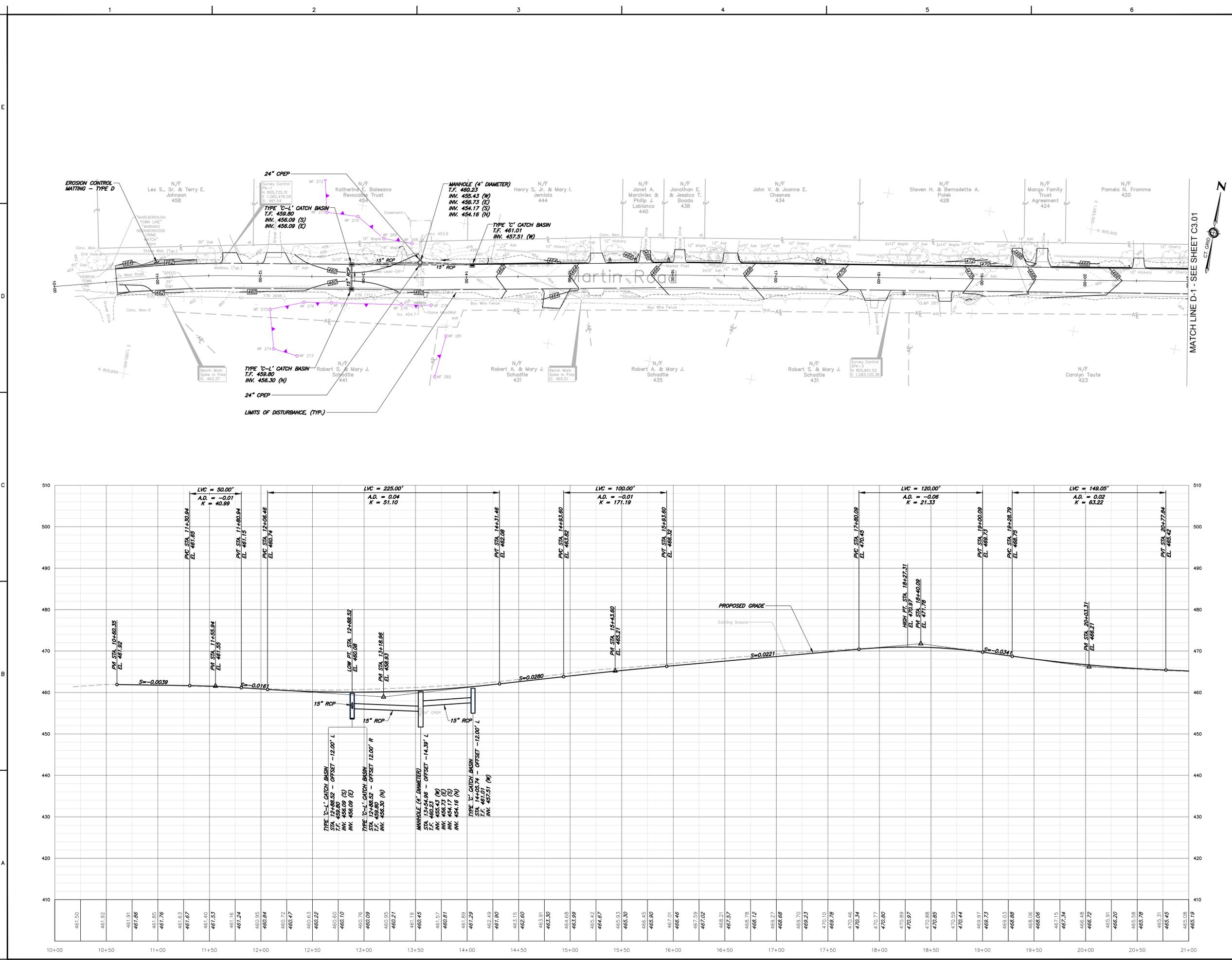
AARON L. MORTENSEN, P.E.  
 CT REGISTRATION NO. 27169

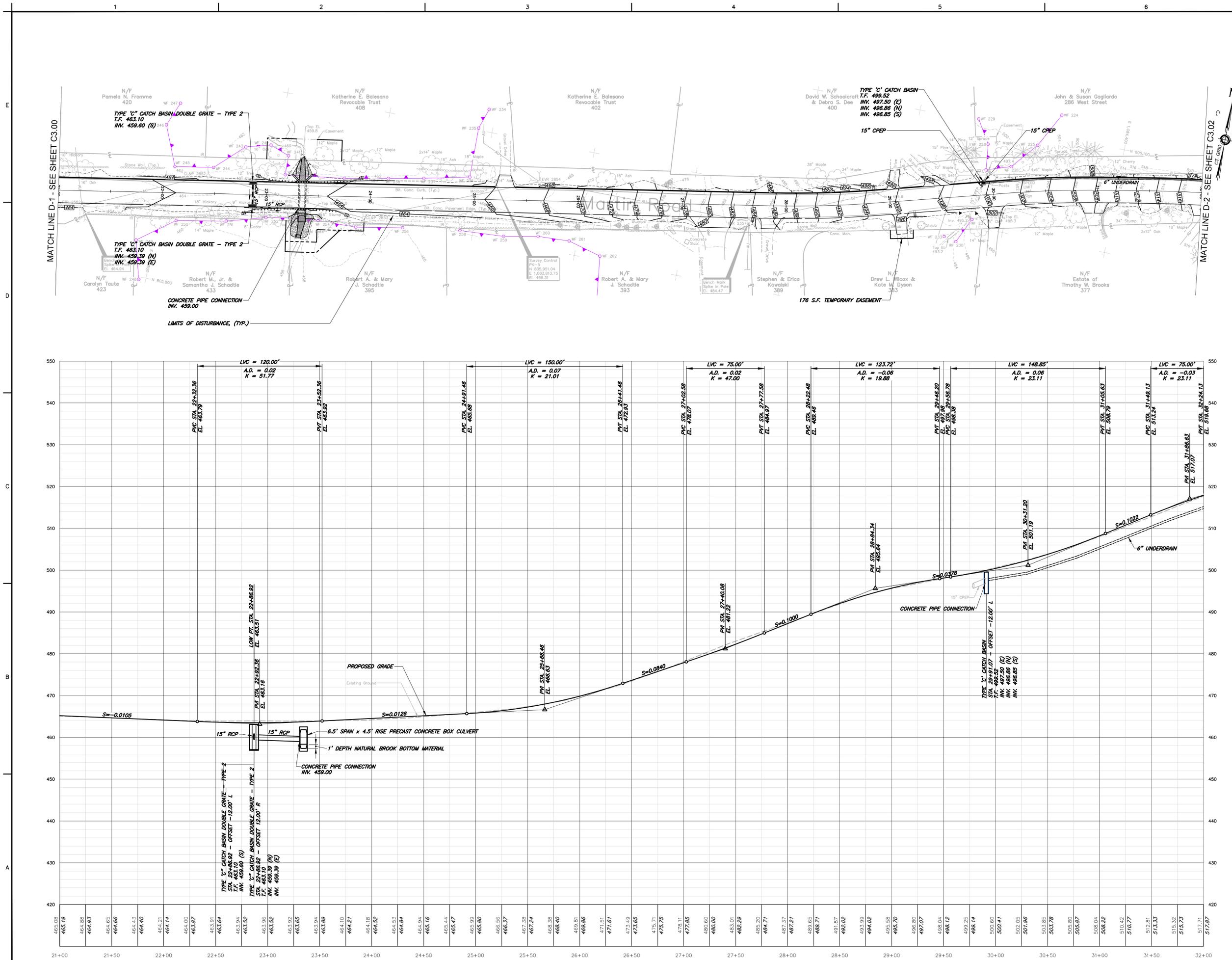
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REVISIONS		
No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024  
 SCALE: 1"=40H 1"=10V  
 PROJECT No.: 06480093  
 CADD FILE: 06480093PP  
 DESIGNED: ALM  
 DRAWN: AJG  
 CHECKED: -

SHEET No.:  
**C3.00**

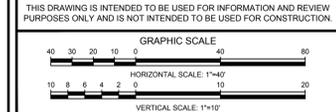




**NOTES:**

- SEE GENERAL NOTES, SHEET C0.1.
- STORM DRAINAGE STRUCTURES AND PIPE SHALL BE PAID UNDER THE SPECIFIC ITEM WITH THE CLASSIFICATION OF "10" DEEP" UNLESS SPECIFIED OTHERWISE.

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TOWN OF  
 HEBRON, CONNECTICUT

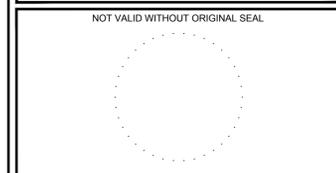
MARTIN ROAD  
 IMPROVEMENTS

GRADING PLAN  
 AND PROFILE  
 STA. 21+00.00 TO STA. 32+00.00

INLAND WETLANDS  
 PERMITTING

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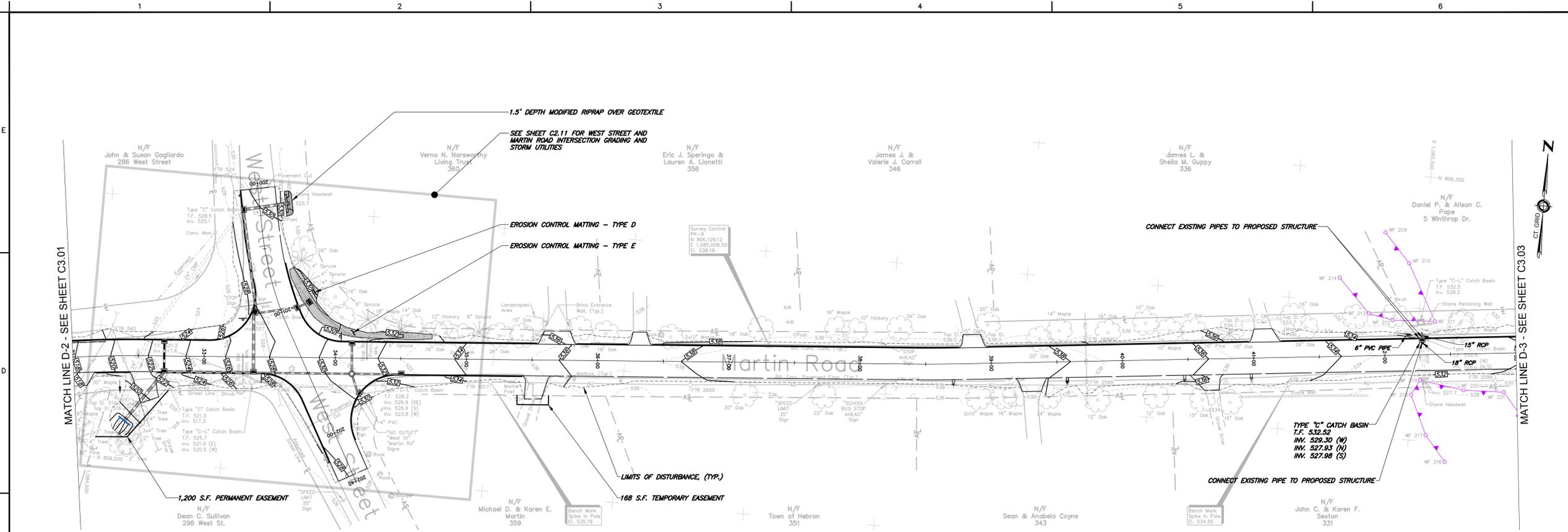
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REVISIONS		
No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024  
 SCALE: 1"=40H 1"=10V  
 PROJECT No.: 06480093  
 CADD FILE: 06480093PP  
 DESIGNED: ALM  
 DRAWN: AJG  
 CHECKED: -

SHEET No.:  
**C3.01**



**NOTES:**

- SEE GENERAL NOTES, SHEET C0.1.
- STORM DRAINAGE STRUCTURES AND PIPE SHALL BE PAID UNDER THE SPECIFIC ITEM WITH THE CLASSIFICATION OF "10" DEEP" UNLESS SPECIFIED OTHERWISE.

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GRAPHIC SCALE  
 HORIZONTAL SCALE: 1"=40'  
 VERTICAL SCALE: 1"=10'

TOWN OF  
 HEBRON, CONNECTICUT

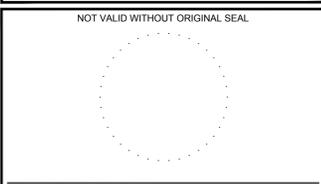
MARTIN ROAD  
 IMPROVEMENTS

GRADING PLAN  
 AND PROFILE  
 STA. 32+00.00 TO STA. 43+00.00

INLAND WETLANDS  
 PERMITTING

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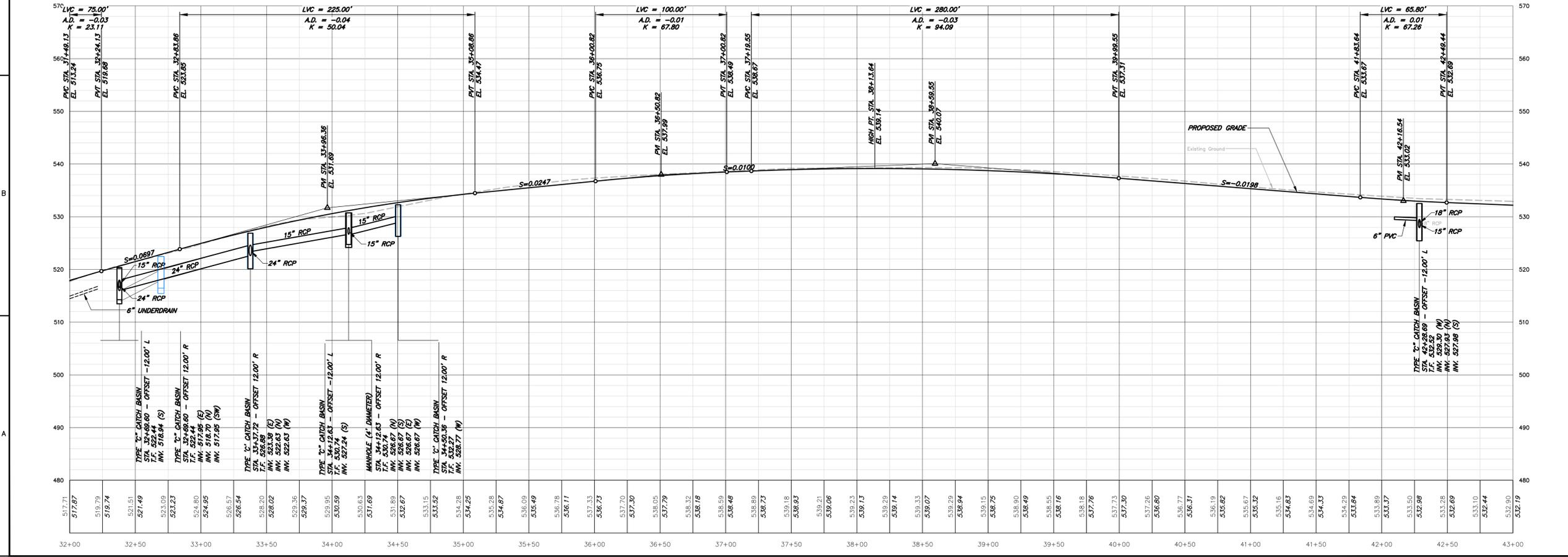
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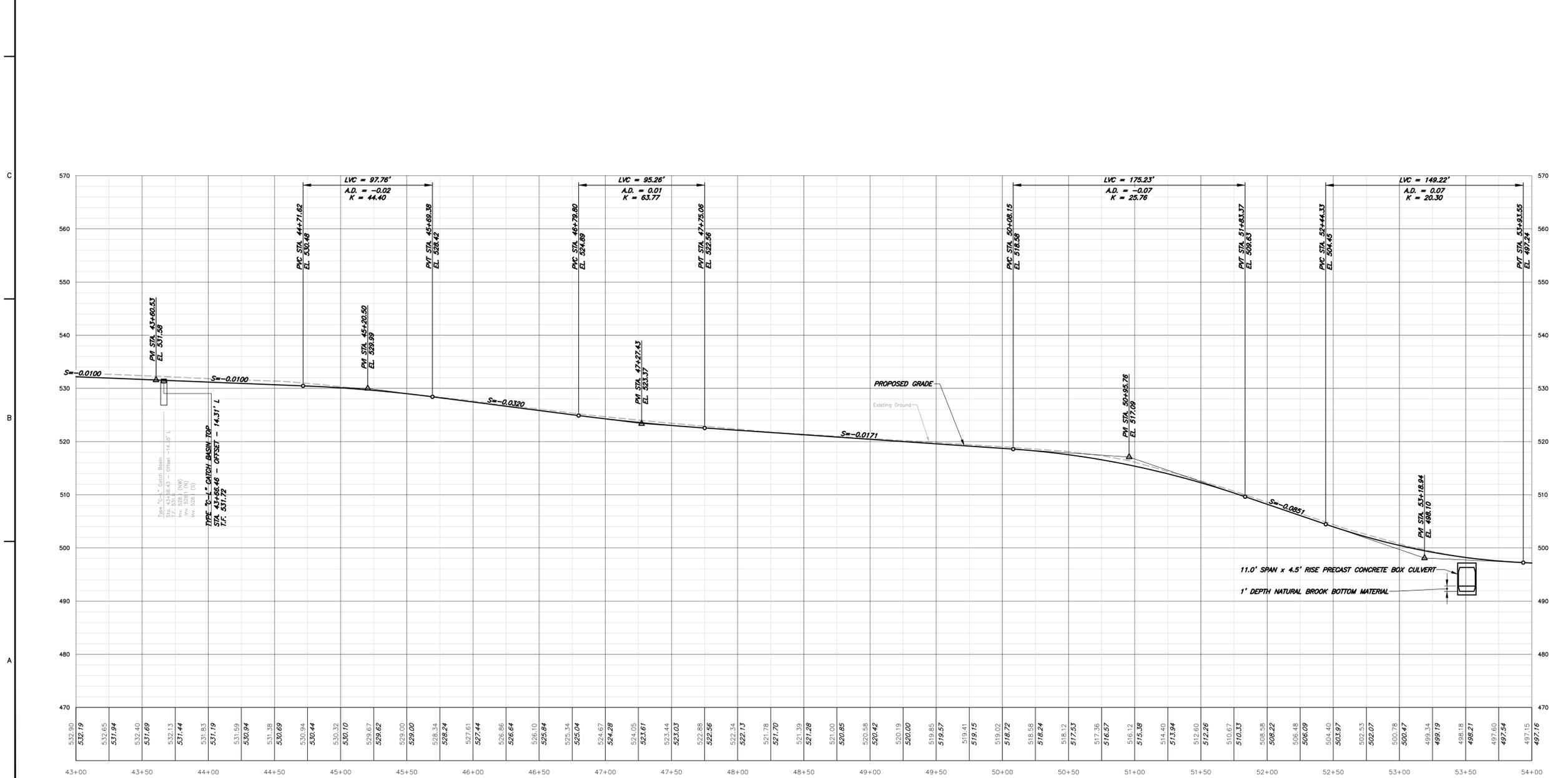
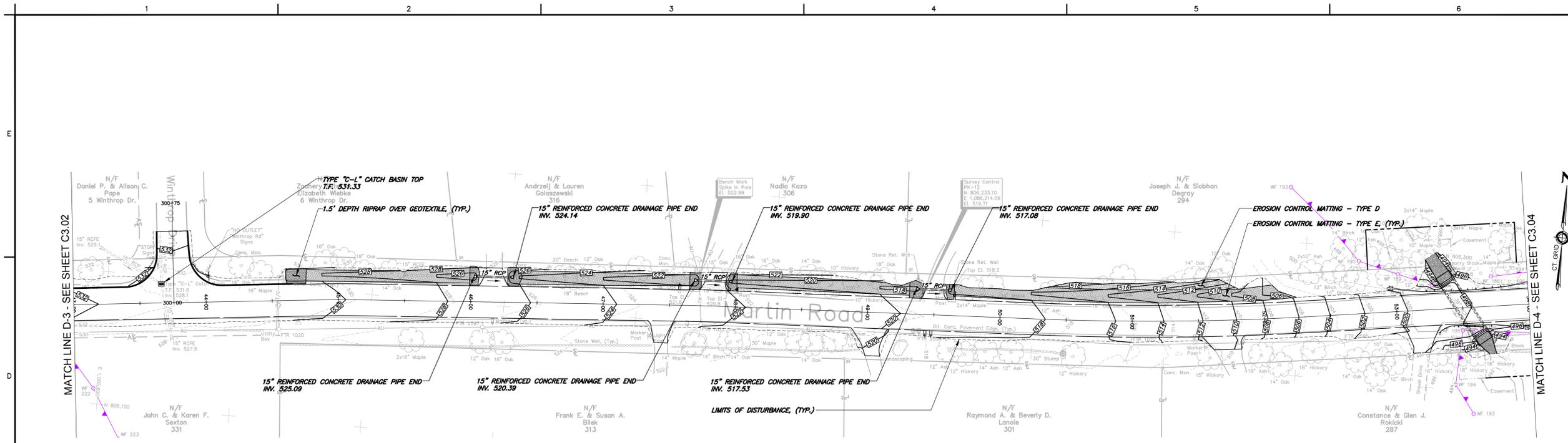
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REVISIONS		
No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024  
 SCALE: 1"=40H 1"=10V  
 PROJECT No.: 06480003  
 CADD FILE: 06480003PP  
 DESIGNED: ALM  
 DRAWN: AJG  
 CHECKED: -

SHEET No.:  
**C3.02**





**NOTES:**

- SEE GENERAL NOTES, SHEET C0.1.
- STORM DRAINAGE STRUCTURES AND PIPE SHALL BE PAID UNDER THE SPECIFIC ITEM WITH THE CLASSIFICATION OF "10\"/>

THIS DRAWING IS INTENDED TO BE USED FOR INFORMATION AND REVIEW PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION.

GRAPHIC SCALE  
 40 30 20 10 0 10  
 HORIZONTAL SCALE: 1"=40'  
 10 8 6 4 2 0 10  
 VERTICAL SCALE: 1"=10'

TOWN OF  
HEBRON, CONNECTICUT

MARTIN ROAD  
IMPROVEMENTS

GRADING PLAN  
AND PROFILE  
STA. 43+00.00 TO STA. 54+00.00

INLAND WETLANDS  
PERMITTING

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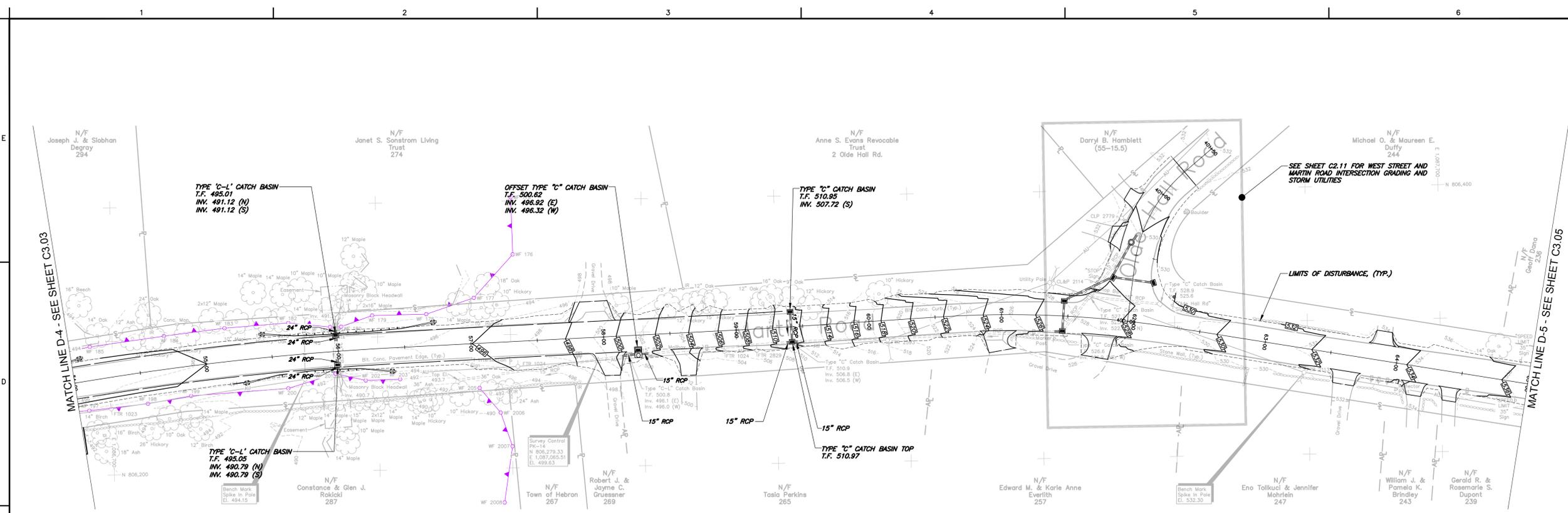
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REVISIONS		
No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024	SHEET No.:
SCALE: 1"=40H 1"=10V	C3.03
PROJECT No.: 06480093	
CADD FILE: 06440093PP	
DESIGNED: ALM	
DRAWN: AJG	
CHECKED: -	



**NOTES:**

- SEE GENERAL NOTES, SHEET C0.1.
- STORM DRAINAGE STRUCTURES AND PIPE SHALL BE PAID UNDER THE SPECIFIC ITEM WITH THE CLASSIFICATION OF "10\"/>

THIS DRAWING IS INTENDED TO BE USED FOR INFORMATION AND REVIEW PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION.

GRAPHIC SCALE  
 HORIZONTAL SCALE: 1"=40'  
 VERTICAL SCALE: 1"=10'

TOWN OF  
HEBRON, CONNECTICUT

MARTIN ROAD  
IMPROVEMENTS

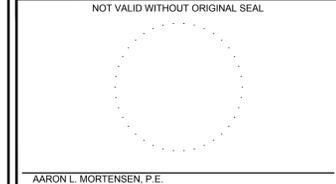
GRADING PLAN  
AND PROFILE

STA. 54+00.00 TO STA. 65+00.00

INLAND WETLANDS  
PERMITTING

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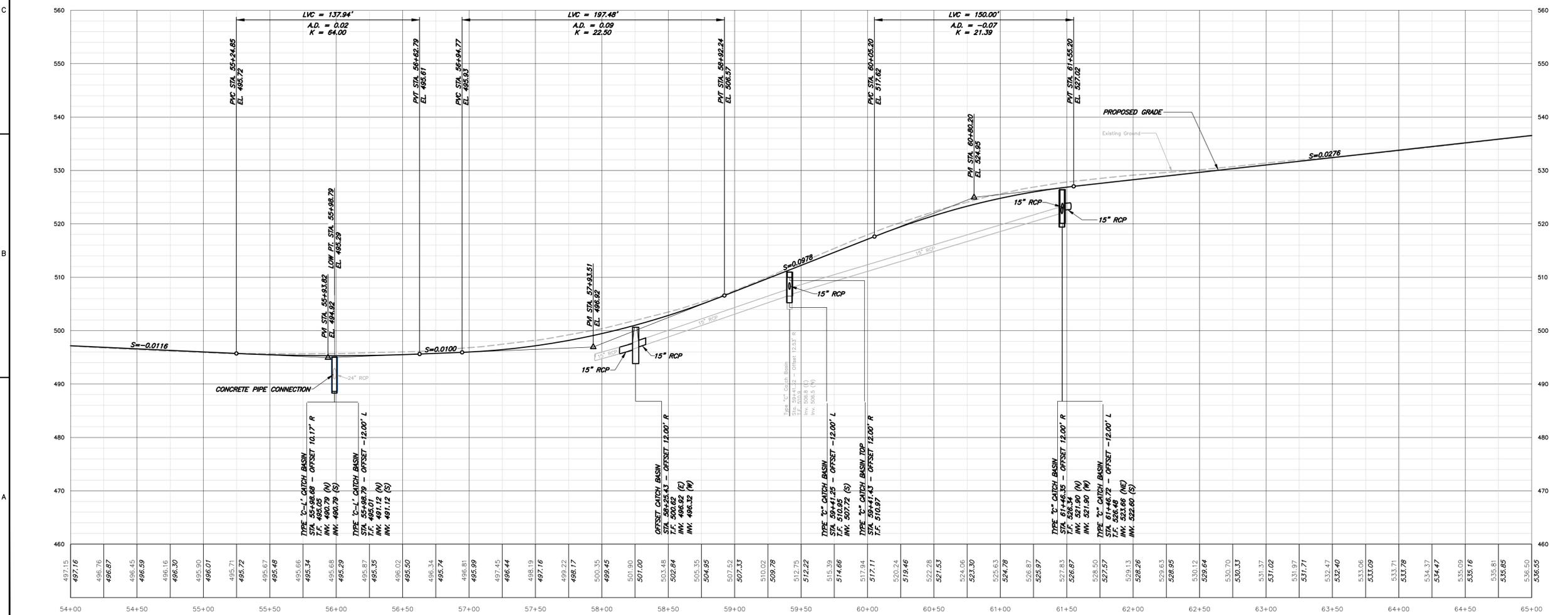
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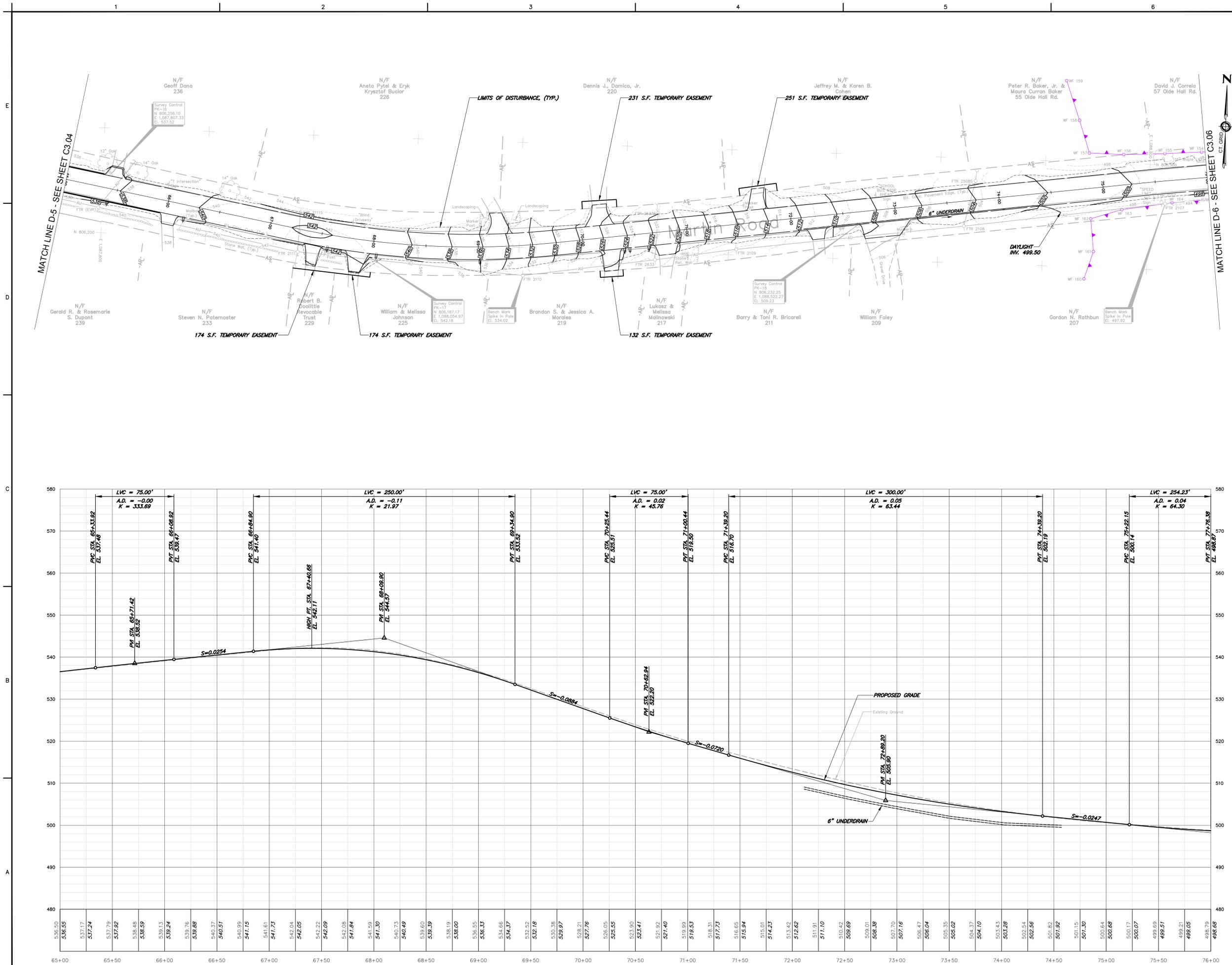
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REVISIONS		
No.	DESCRIPTION	DATE



DATE: NOVEMBER 2024  
 SCALE: 1"=40H, 1"=10V  
 PROJECT No.: 06480093  
 CADD FILE: 06480093PP  
 DESIGNED: ALM  
 DRAWN: AJG  
 CHECKED: -

SHEET No.:  
**C3.04**



- NOTES:
- SEE GENERAL NOTES, SHEET C0.1.
  - STORM DRAINAGE STRUCTURES AND PIPE SHALL BE PAID UNDER THE SPECIFIC ITEM WITH THE CLASSIFICATION OF "10" DEEP" UNLESS SPECIFIED OTHERWISE.

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GRAPHIC SCALE  
 40 30 20 10 0 10 20  
 HORIZONTAL SCALE: 1"=40'  
 10 8 6 4 2 0 20  
 VERTICAL SCALE: 1"=10'

TOWN OF  
 HEBRON, CONNECTICUT

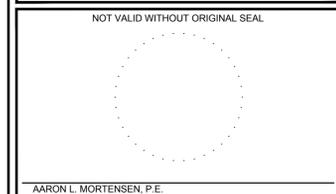
MARTIN ROAD  
 IMPROVEMENTS

GRADING PLAN  
 AND PROFILE  
 STA. 65+00.00 TO STA. 76+00.00

INLAND WETLANDS  
 PERMITTING

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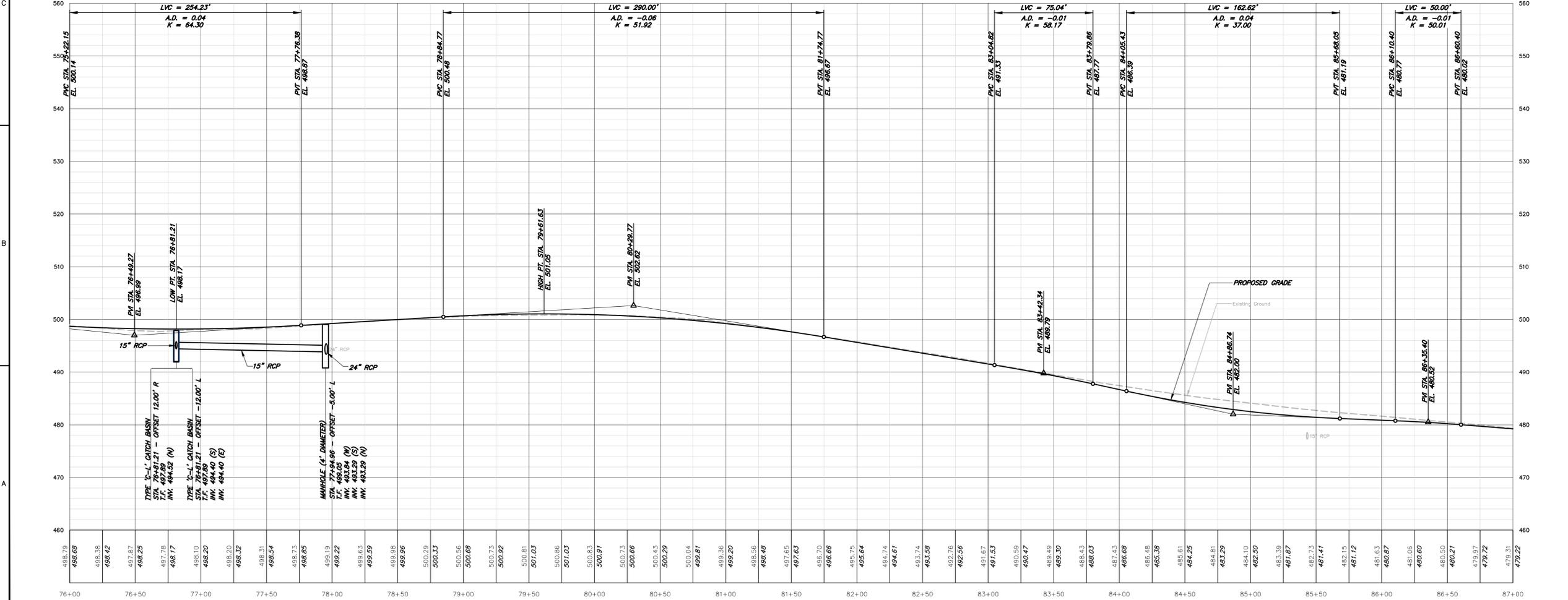
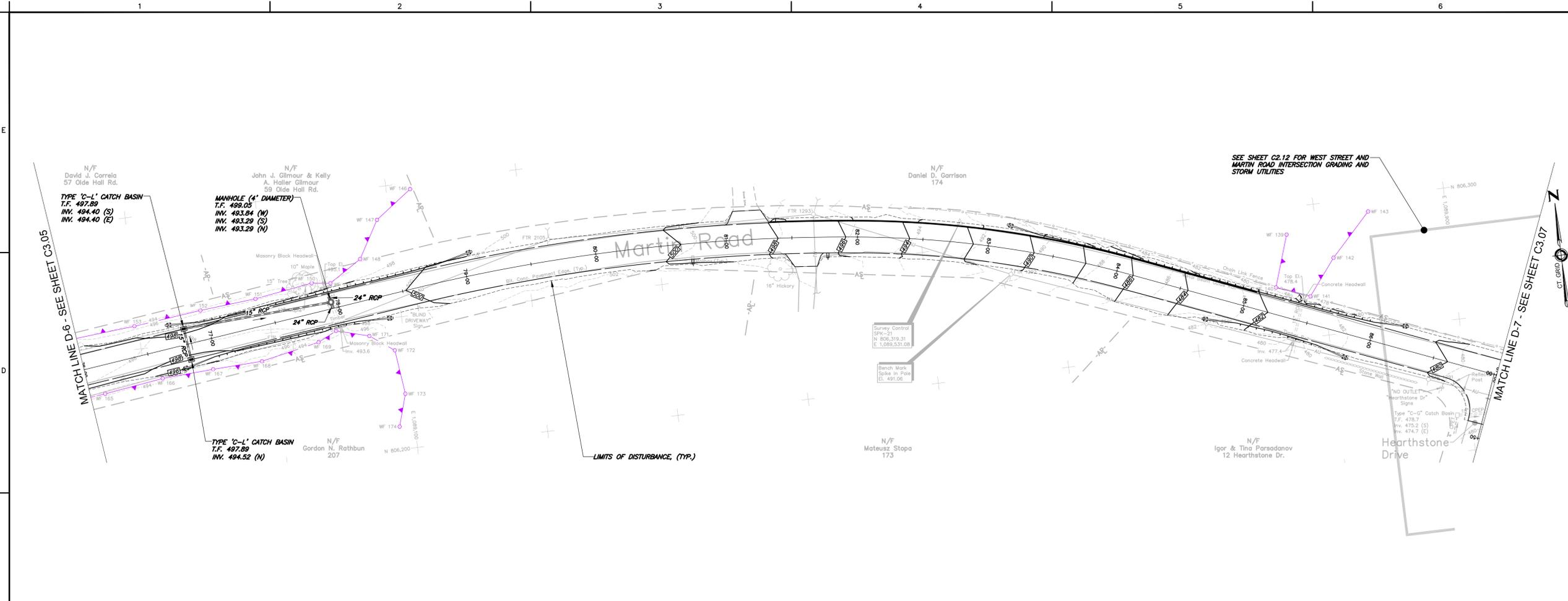
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REVISIONS		
No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024  
 SCALE: 1"=40H, 1"=10V  
 PROJECT No.: 06480093  
 CADD FILE: 06480093PP  
 DESIGNED: ALM  
 DRAWN: AJG  
 CHECKED: -

SHEET No.:  
**C3.05**



**NOTES:**

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GRAPHIC SCALE  
 40 30 20 10 0 10  
 HORIZONTAL SCALE: 1"=40'  
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 VERTICAL SCALE: 1"=10'

TOWN OF  
HEBRON, CONNECTICUT

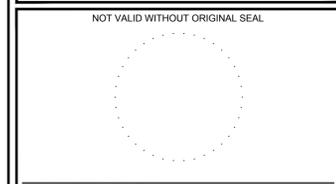
MARTIN ROAD  
IMPROVEMENTS

GRADING PLAN  
AND PROFILE  
STA. 76+00.00 TO STA. 87+00.00

INLAND WETLANDS  
PERMITTING

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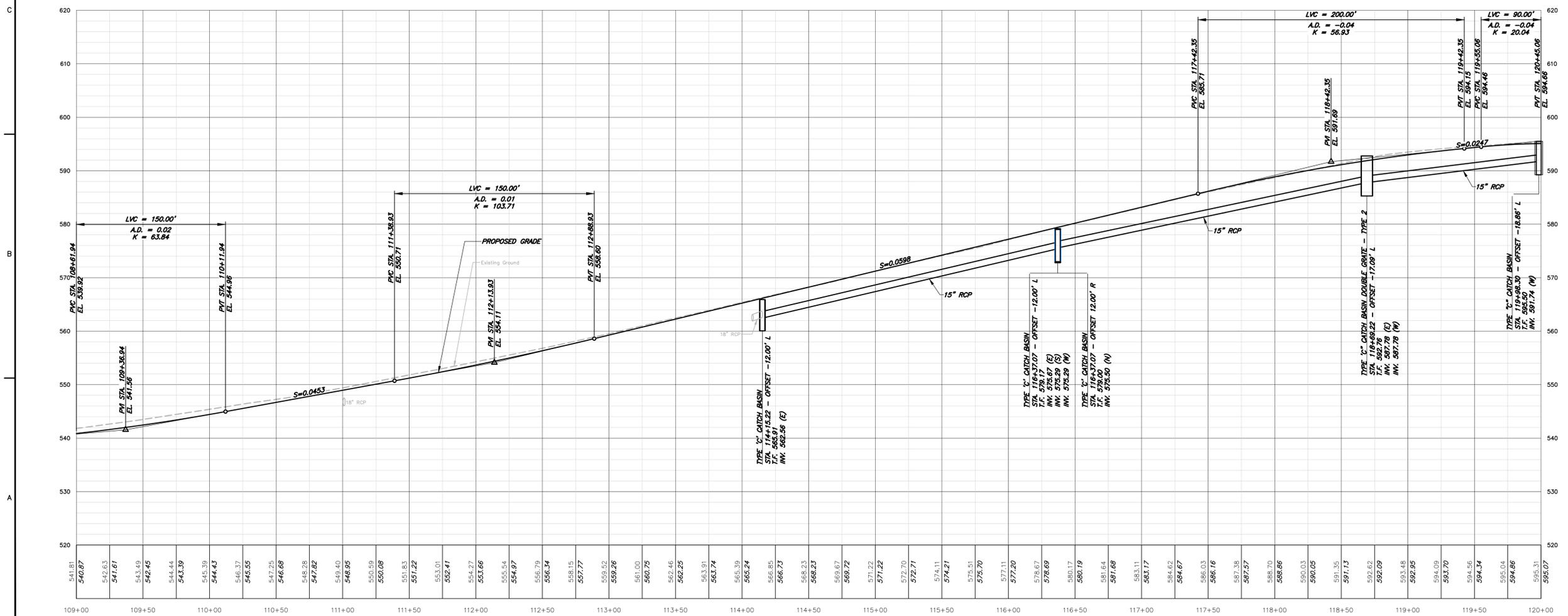
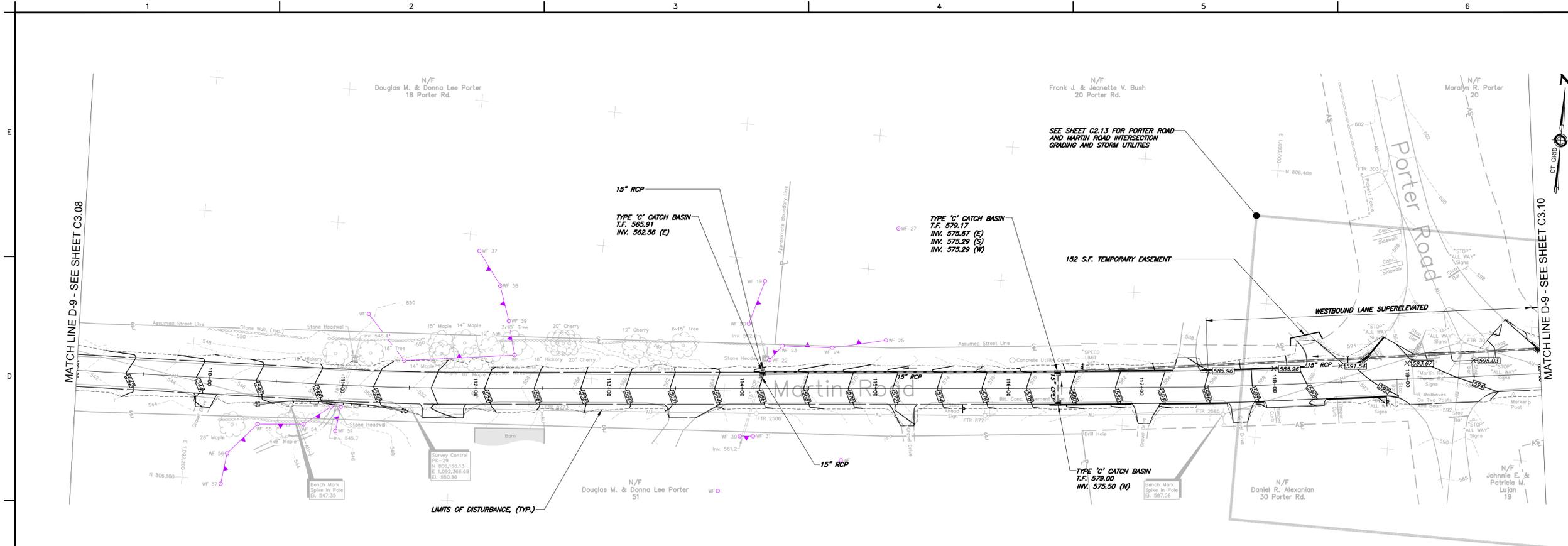
REVISIONS		
No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024  
 SCALE: 1"=40H, 1"=10V  
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 DRAWN: AJG  
 CHECKED: -

SHEET No.:  
**C3.06**



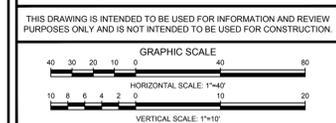




**NOTES:**

- SEE GENERAL NOTES, SHEET C0.1.
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**TOWN OF  
HEBRON, CONNECTICUT**

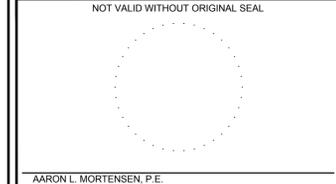
**MARTIN ROAD  
IMPROVEMENTS**

**GRADING PLAN  
AND PROFILE**  
STA. 109+00.00 TO STA. 120+00.00

**INLAND WETLANDS  
PERMITTING**

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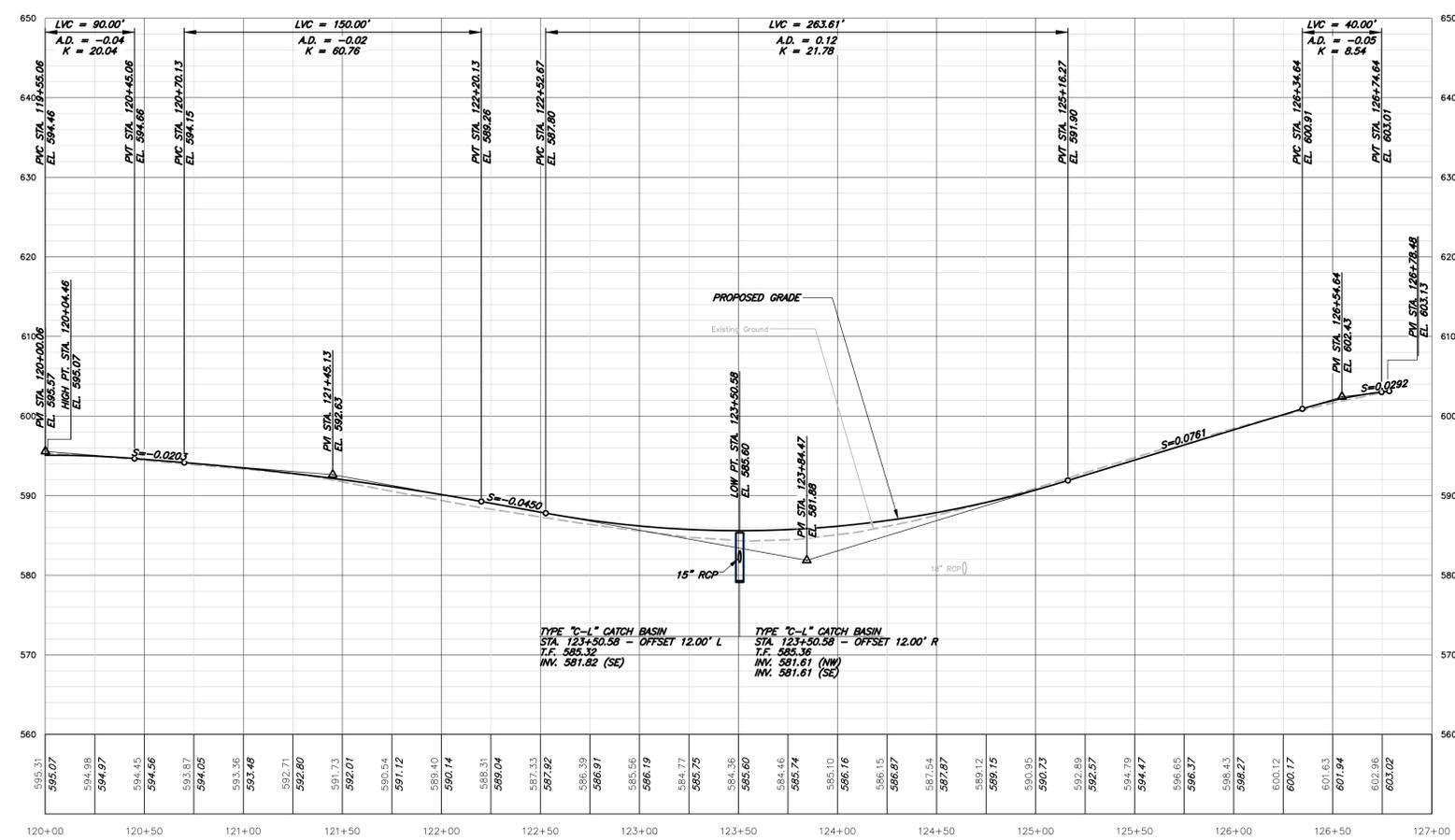
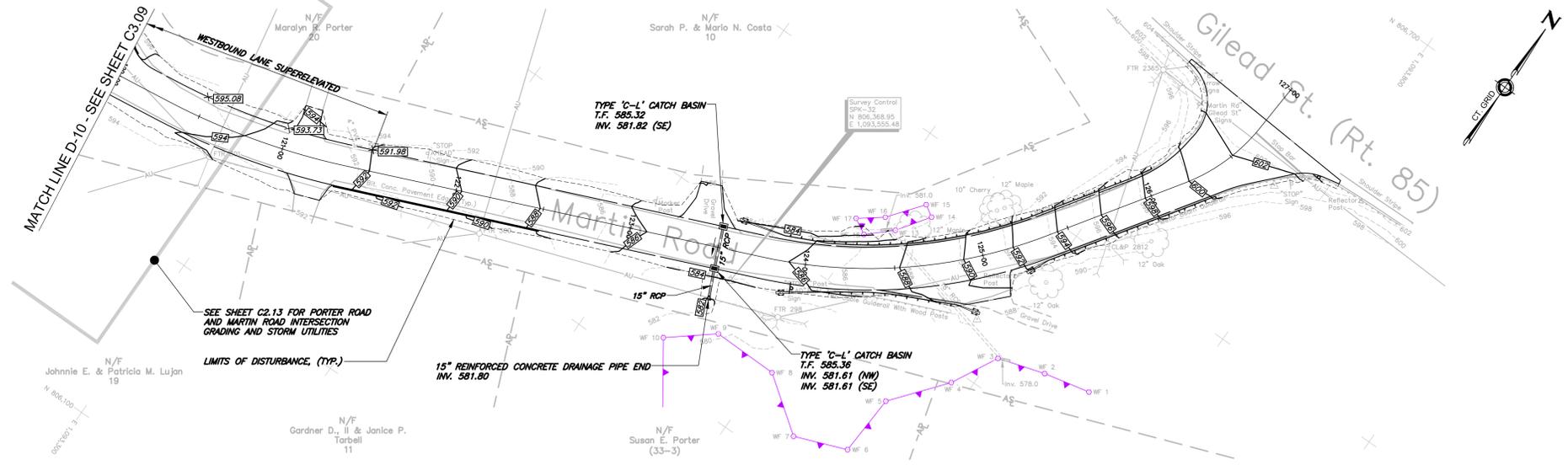
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REVISIONS		
No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024  
SCALE: 1"=40H, 1"=10V  
PROJECT No.: 06480093  
CADD FILE: 06480093PP  
DESIGNED: ALM  
DRAWN: AJG  
CHECKED: -

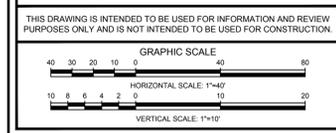
SHEET No.:  
**C3.09**



**NOTES:**

- SEE GENERAL NOTES, SHEET C0.1.
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TOWN OF  
HEBRON, CONNECTICUT

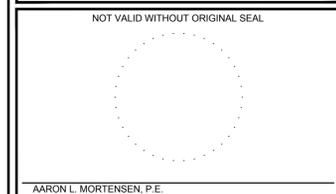
MARTIN ROAD  
IMPROVEMENTS

GRADING PLAN  
AND PROFILE  
STA. 120+00.00 TO STA. 127+14.50

INLAND WETLANDS  
PERMITTING

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REVISIONS		
No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024	SHEET No.:
SCALE: 1"=40H, 1"=10V	C3.10
PROJECT No.: 06480093	
CADD FILE: 06480093PP	
DESIGNED: ALM	
DRAWN: AJG	
CHECKED: -	

PROJECT NARRATIVE:

THE SUBJECT PROJECT INCLUDES THE RECONSTRUCTION OF MARTIN ROAD, THE REPLACEMENT OF TWO CULVERTS, AND INSTALLATION OF STORM DRAINAGE AND GUIDELINE SYSTEMS.

ADDRESS OF PROPOSED USE: MARTIN ROAD, HEBRON, CT 06248

ADDRESS OF OWNER'S AGENT: MR. PAUL FORTRESS, TOWN OF HEBRON, DIRECTOR OF PUBLIC WORKS

15 GLEAD STREET, HEBRON, CT 06248

CONSTRUCTION SCHEDULING:

IT IS PROPOSED TO PERFORM CONSTRUCTION IN THE SPRING OF 2025. IN GENERAL, THE SEQUENCE FOR CONSTRUCTION AND SITE STABILIZATION MAY BE AS FOLLOWS:

- 1. INSTALL TEMPORARY TRAFFIC CONTROL MEASURES AND DETOURS FOR PHASE 1.
2. INSTALL CONSTRUCTION ENTRANCES AND SEDIMENT AND EROSION CONTROLS.
3. INSTALL CONDUCTIONS AND TEMPORARY STORMWATER BYPASS.
4. INSTALL CULVERT.
5. REMOVE COFFERDAMS AND STORMWATER BYPASS.
6. INSTALL TEMPORARY TRAFFIC CONTROL MEASURES AND DETOURS FOR PHASE 2.
7. INSTALL SEDIMENT AND EROSION CONTROLS FOR PHASE 2.
8. EXCAVATE ROADWAY EDGES AS NEEDED TO WIDEN ROADWAY.
9. PULVERIZE AND MIX AGGREGATE OF ROADWAY WITHIN PHASE 3.
10. ESTABLISH SUBGRADE AND PLACE AND COMPACT RECLAIMED BASE.
11. INSTALL STORM DRAINAGE.
12. FINE GRADE ROAD AND PLACE END-COURSE FOR PHASE 2.
13. INSTALL TEMPORARY PAVEMENT MARKINGS FOR PHASE 2.
14. PLACE TOPSOIL, FERTILIZER, SEED, AND MULCH DISTURBED AREAS FOR PHASE 2.
15. INSTALL TEMPORARY TRAFFIC CONTROL MEASURES AND DETOURS FOR PHASE 3.
16. INSTALL SEDIMENT AND EROSION CONTROLS FOR PHASE 3.
17. EXCAVATE ROADWAY EDGES AS NEEDED TO WIDEN ROADWAY.
18. PULVERIZE AND MIX AGGREGATE OF ROADWAY WITHIN PHASE 3.
19. INSTALL STORM DRAINAGE.
20. FINE GRADE ROAD AND PLACE END-COURSE FOR PHASE 3.
21. INSTALL TEMPORARY PAVEMENT MARKINGS FOR PHASE 3.
22. PLACE TOPSOIL, FERTILIZER, SEED, AND MULCH DISTURBED AREAS FOR PHASE 3.
23. PLACE TOP COURSE FOR ALL PHASES.
24. INSTALL PERMANENT PAVEMENT MARKINGS AND SIGNAGE.
25. REMOVE REMAINING SEDIMENTATION AND EROSION CONTROL MEASURES ONCE VEGETATION HAS BEEN ESTABLISHED.

THE CONTRACTOR SELECTED TO CONSTRUCT THIS PROJECT WILL BE RESPONSIBLE FOR IMPLEMENTATION OF SEDIMENT AND EROSION CONTROL MEASURES ON THIS SITE PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR WILL PROVIDE THE TOWN WITH LAND AGENT, ENGINEER AND ZONING OFFICER WITH THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE RESPONSIBLE PERSON. SHOULD ANY PROBLEMS OCCUR, THEN THE OWNER'S AGENT SHOULD BE CONTACTED.

CONTINGENCY PLAN

A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE OWNER'S AGENT AND THE TOWN ENGINEER WITH THE NAMES AND TELEPHONE NUMBERS OF THE RESPONSIBLE PERSONS TO BE CONTACTED IN THE EVENT OF AN EROSION CONTROL PROBLEM.

THE CONTRACTOR SHALL AT ALL TIMES KEEP SUFFICIENT ADDITIONAL SEDIMENTATION CONTROL, FENCE AND/OR HAY BALES ON THE PROJECT SITE TO CONTROL UNFORESEEN EROSION AND SOIL PROBLEMS. IN THE EVENT OF A PROBLEM THE CONTRACTOR SHALL PROMPTLY STABILIZE THE PROBLEM AND CONTAIN ANY SEDIMENT AND THEN NOTIFY THE OWNER'S AGENT.

EROSION AND SEDIMENT CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN FOR THE PROJECT.

THE MINIMUM STANDARDS FOR ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE THOSE OUTLINED IN THE 2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. LATEST REVISION. ALTERNATIVE MEASURES, METHODS, MEANS AND TECHNIQUES MAY BE ALLOWED WITH THE PRIOR APPROVAL OF THE OWNER'S AGENT.

GENERAL GUIDELINES:

19. NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE WITHIN AREAS DESIGNATED AS INLAND WETLANDS, WATERCOURSES OR FLOODPLAINS, DESIGNATED UP-LAND REVIEW ZONES OR WITHIN STREAM CHANNEL, ENCROACHMENT LINES WITHOUT ALL REQUIRED APPROVALS AND PERMITS.

20. TEMPORARY EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.

21. ALL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED CONTINUOUSLY AND SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.

22. THE CONTRACTOR SHALL LIMIT THE DISTURBANCE OF LAND TO THOSE AREAS SHOWN ON THE DRAWINGS AND SHALL TAKE REASONABLE CARE TO PROTECT AND PRESERVE EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE WHERE FEASIBLE.

23. WHERE PRACTICABLE, THE CONTRACTOR SHALL PLAN HIS CONSTRUCTION OPERATIONS SO AS TO LIMIT THE AREAS OF EXPOSED SOIL. TO AREAS ACTUALLY UNDER CONSTRUCTION. THE CONTRACTOR SHALL TAKE REASONABLE CARE TO LIMIT THE PERIOD OF EXPOSURE OF DISTURBED AREAS. THE INSTALLATION OF PERMANENT VEGETATIVE MEASURES SHALL BE ACCOMPLISHED AS SOON AS IS PRACTICABLE.

24. ADEQUATE PROVISIONS SHALL BE TAKEN TO PROTECT ALL EXPOSED CUT AND FILL SLOPES FROM SURFACE WATER FLOW DAMAGE.

25. ALL MATERIAL FROM CLEANING AND GRUBBING OPERATIONS SHALL BE DISPOSED OF IN A LAWFUL MANNER.

26. WATER FROM DRAINING OPERATIONS SHALL NOT BE DISCHARGED DIRECTLY TO ANY WETLAND OR WATERCOURSE. SUCH WATER SHALL BE DISCHARGED TO AN APPROVED SEDIMENT BASIN AND/OR FILTER DEVICE OR TO A STORM DRAINAGE SYSTEM ONLY WHEN APPROVED. NO WATER FROM DRAINING OPERATIONS SHALL BE DISCHARGED INTO A SANITARY SEWER SYSTEM.

27. THE STORAGE, WASHING, FUELING AND MAINTENANCE OF EQUIPMENT AND VEHICLES SHALL TAKE PLACE IN DESIGNATED AREAS ONLY. IN THE EVENT OF A CONTAMINANT SPILL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION AND THE CHEMICAL SPILL RESPONSE DIVISION (860-424-3338) AND THE OWNER'S AGENT.

PRESERVE AND PROTECT SOIL

TOPSOILING

MATERIALS: SITE INVESTIGATIONS SHALL BE MADE TO DETERMINE IF THERE IS A SUFFICIENT QUANTITY OF TOPSOIL OF GOOD QUALITY ON THE SITE TO JUSTIFY STRIPPING. HIGH QUALITY TOPSOIL SHALL BE STRIPPED AND LOANED TO SANDY LOAM, SILTY LOAM, SANDY CLAY LOAM, CLAY LOAM. OTHER SOIL TYPES WITH HIGH ORGANIC CONTENT MAY BE FOUND SUITABLE AFTER TESTING. IT SHALL BE FREE OF DEBRIS, TRAILS, STUMPS, ROCKS, ROOTS AND NOXIOUS WEEDS. IT SHALL HAVE EVIDENCE OF LIFE ABILITY TO SUPPORT HEALTHY VEGETATION. IT SHALL CONTAIN NO SUBSTANCE THAT IS POTENTIALLY TOXIC TO PLANT GROWTH.

ALL TOPSOIL SHALL BE TESTED BY A RECOGNIZED LABORATORY TO DETERMINE THE PROPER APPLICATION RATES TO LIME AND FERTILIZER BASED ON THE RESULTS.

INSTALLATION REQUIREMENTS

1. STRIPPING OF TOPSOIL SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. THE DEPTH OF REMOVAL MAY VARY DEPENDING ON THE SITE CONDITIONS. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO BEGINNING STRIPPING OPERATIONS.

2. TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL SURFACE WATER FLOW WILL NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT DAMAGE SHALL RESULT.

3. SIDE SLOPES OF STOCKPILES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.

4. A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.

5. TEMPORARY SEEDING OF STOCKPILES SHALL BE COMPLETED WITHIN 30 DAYS OF THE FORMATION OF THE STOCKPILE, IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE COVER REQUIREMENTS.

6. PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE DRAWINGS.

7. WHERE THE % OF THE SUBSOIL IS 6 OR LESS, GROUND AGRICULTURAL LIMESTONE SHALL BE SPREAD IN ACCORDANCE WITH THE SOIL TEST TO A 2 INCH OR TO 4 INCH OR THE VEGETATIVE ESTABLISHMENT PRACTICE BEING USED.

8. AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENEED BY DISCING OR SCARIFYING OR TRACKING TO A DEPTH OF AT LEAST 4 INCHES TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.

9. TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION. WHEN THE SUBGRADE IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING, THE TOPSOIL SHALL BE UNIFORM COMPACTED TO A DEPTH OF 4 INCHES, UNLESS OTHERWISE NOTED. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.

10. TOPSOIL SHALL BE COMPACTED ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL AND TO OBTAIN A UNIFORM FIRM SEEDBED FOR THE ESTABLISHMENT OF A DURABLE TURF. UNDER CONSTRUCTION IS TO BE AVOIDED AS IT INCREASES RUNOFF VELOCITY AND VOLUME, AND PREVENTS SEED GERMINATION.

11. IMMEDIATELY FOLLOWING TOPSOIL APPLICATION, PROTECT THE TOPSOIL FROM EROSION BY EITHER SODDING, SEEDING AND/OR MULCHING.

LAND GRADING

1. ALL GRAZED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.

2. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.

3. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, STABILIZE SETTLEMENT, SUSCEPTIBILITY OR OTHER RELATED PROBLEMS.

4. FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBER, LOGS, STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIALS.

5. FROZEN MATERIAL, OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

6. FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION.

7. TOPSOILING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS FOR TOPSOILING.

8. ALL GRAZED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

DUST CONTROL

INSTALLATION REQUIREMENTS

WATER

1. THE EXPOSED SOIL SURFACE SHALL BE MOISTENED PERIODICALLY WITH ADEQUATE QUANTITIES OF WATER TO CONTROL DUST.

STONE

1. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. IN AREAS ADJACENT TO WATERWAYS USE CHEMICALLY STABLE AGGREGATE.

MAINTENANCE

1. WHEN TEMPORARY DUST CONTROL MEASURES ARE USED, REPETITIVE TREATMENT SHALL BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.

VEGETATIVE SOIL COVER

TEMPORARY SEEDING

INSTALLATION REQUIREMENTS

SITE PREPARATION

1. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.

2. INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SEDIMENT BASINS AND GRASSES WATERWAYS.

SEEDBED PREPARATION

1. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RESULTS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAINTENANCE ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 30 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 100 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

Table with 3 columns: SOIL TEXTURE, TONS/ACRE, LBS/1,000 SQUARE FEET. Rows include CLAY, CLAY LOAM, and HIGH ORGANIC SOIL.

REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITE.

SEEDING

1. ANNUAL RYE GRASS 40 LBS/ACRE, 1 LB/100 SF

2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER (LIME AND SEED).

3. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER. HYDROSEEDINGS WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.

4. SPRING SEEDINGS USUALLY GIVE THE BEST RESULTS. SPRING SEEDINGS OF ALL SEED LEGUMES IS RECOMMENDED. HOWEVER, LATE SUMMER SEEDINGS PRIOR TO SEPTEMBER 1 CAN BE MADE. WHEN CROWN VETCH IS SEEDING IN LATE SUMMER AT LEAST 35 PERCENT OF THE SEED SHOULD BE HARD SEED (UNSCARIFIED). THE RECOMMENDED SEEDING DATES ARE:

MARCH 15 THROUGH JUNE 15, AUGUST 15 THROUGH OCTOBER 15

PERMANENT SEEDING

1. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.

SEEDBED PREPARATION

1. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAINTENANCE ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 30 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS OF 38-0-0 OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED FOR TOPDRESSING. APPLY GROUND LIMESTONE (EQUIVALENT TO 100 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

Table with 3 columns: SOIL TEXTURE, TONS/ACRE, LBS/1,000 SQUARE FEET. Rows include CLAY, CLAY LOAM, and HIGH ORGANIC SOIL.

REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITE.

SEEDING

1. ANNUAL RYE GRASS 40 LBS/ACRE, 1 LB/100 SF

2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER (LIME AND SEED).

3. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER. HYDROSEEDINGS WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.

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PERMANENT SEEDING

1. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE REQUIREMENTS FOR LAND GRADING.

SEEDBED PREPARATION

1. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAINTENANCE ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 30 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS OF 38-0-0 OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED FOR TOPDRESSING. APPLY GROUND LIMESTONE (EQUIVALENT TO 100 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:

Table with 3 columns: SOIL TEXTURE, TONS/ACRE, LBS/1,000 SQUARE FEET. Rows include CLAY, CLAY LOAM, and HIGH ORGANIC SOIL.

REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITE.

SEEDING

1. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICABLE TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.

2. REMOVE FROM THE SURFACE ALL STONES ONE INCH OR LARGER IN ANY DIMENSION UNLESS OTHERWISE SPECIFIED. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.

4. INSPECT SEEDBED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT BAR. SEEDING OPERATIONS SHOULD BE ON THE CONTOUR.

5. FROST CRACK SEEDING MUST BE DONE IN LATE WINTER OR EARLY SPRING. SUITABLE WEATHER CONDITIONS ARE FREEZING NIGHTS AND THAWING DAYS WITH LITTLE OR NO SNOW COVER. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN USING THIS METHOD.

6. HYDRAULIC APPLICATION (HYDROSEEDING), IS A SUITABLE METHOD FOR USE ON CRITICAL AREAS, WHEN HYDROSEEDING, A SEEDBED IS PREPARED IN THE CONVENTIONAL WAY OR BY HAND RANGING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN ONE INCH IN DIAMETER. SLOPES MUST BE NO STEEPER THAN 2 TO 1 TO 2 FEET HORIZONTALLY TO ONE FOOT VERTICALLY. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED UNLESS IT IS USED TO HOLD STRAW OR HAY. FIBER MULCH SHOULD BE APPLIED TO PROTECT THE SEEDBED FROM EROSION. BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH. SEEDING RATES SHOULD BE INCREASED BY 10 PERCENT WHEN HYDROSEEDING.

7. IF SEEDING CANNOT BE DONE WITHIN THE SEEDING DATES, USE THE TEMPORARY MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

MAINTENANCE

1. LIME ACCORDING TO A SOIL TEST OR AT A MINIMUM OF EVERY FIVE YEARS USING A RATE OF TWO TONS PER ACRE (100 POUNDS PER 1,000 SQUARE FEET).

2. WHERE GRASSES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR BROADCAST BIENNIALY, 300 POUNDS OF 10-10-10 OR EQUIVALENT PER ACRE (7.5 POUNDS PER 1,000 SQUARE FEET).

3. WHERE LEGUMES PREDOMINATE, FERTILIZE ACCORDING TO A SOIL TEST OR BROADCAST EVERY THREE YEARS 300 POUNDS OF 20-20-20 PER ACRE OR EQUIVALENT (7.5 POUNDS PER 1,000 SQUARE FEET).

NON-LIVING SOIL PROTECTION

MULCH FOR SEED

MATERIALS

1. SELECT MULCH MATERIALS BASED ON SITE CONDITIONS, AVAILABILITY OF MATERIALS AND LABOR AND EQUIPMENT. OTHER MATERIALS MAY BE USED ONLY WITH THE PERMISSION OF THE APPROVING AUTHORITY.

INSTALLATION REQUIREMENTS

ORGANIC MULCHES

1. ORGANIC MULCHES MAY BE USED IN ANY AREA WHERE MULCH IS REQUIRED, SUBJECT TO THE RESTRICTIONS NOTED BELOW.

Table with 4 columns: MULCHES, RATES PER ACRE, PER 1,000 SQUARE FEET. Rows include STRAW OR HAY and 1-2" 2 TONS, 35-45 LBS.

APPLICATION

1. MULCH MATERIALS SHALL BE SPREAD UNIFORMLY BY HAND OR MACHINE. WHEN SPREADING STRAW OR HAY MULCH BY HAND, COVER THE AREA TO BE MULCHED TO APPROXIMATELY 1,000 SQUARE FOOT SECTIONS AND PLACE 35-45 POUNDS (34 TO 35 BALES) OF STRAW OR HAY IN EACH SECTION TO ENSURE UNIFORM DISTRIBUTION.

ANCHORING

1. HAY OR STRAW MULCHES MUST BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT WINDLIFTING. HAY OR STRAW MULCH MAY BE ANCHORED BY TRACKING WITH CONSTRUCTION EQUIPMENT, BUT NOT BY USING NETTING.

MAINTENANCE

1. ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. WHEN EROSION IS OBSERVED, ADDITIONAL MULCH SHOULD BE APPLIED. NETS SHALL BE INSPECTED AFTER RAINSTORMS FOR DEBRIS OR FOR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, REINSTALL NETS AS NECESSARY AFTER REPAIRING DAMAGE TO THE SLOPE. INSPECTORS SHALL TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED. GRASSES SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION AND TO SURVIVE SEVERE WEATHER CONDITIONS. WHEN MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE. REPAIR AS NEEDED.

TEMPORARY EROSION CONTROL BLANKET

DEFINITION

1. A MANUFACTURED BLANKET COMPOSED OF BIODEGRADABLE EPDM/TOPEDEGRADABLE NATURAL OR POLYMER FIBERS AND/OR FILAMENTS THAT HAVE MECHANICALLY, STRUCTURALLY OR CHEMICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX.

PURPOSE

1. TO PROVIDE TEMPORARY SURFACE PROTECTION TO NEWLY SEEDDED AND/OR DISTURBED SOILS TO ABSORB RAINFALL IMPACT AND TO REDUCE SHEET AND RILL EROSION AND TO ENHANCE THE ESTABLISHMENT OF VEGETATION.

APPLICATION

1. TO PROVIDE TEMPORARY SURFACE PROTECTION TO NEWLY SEEDDED AND/OR DISTURBED SOILS TO ABSORB RAINFALL IMPACT AND TO REDUCE SHEET AND RILL EROSION AND TO ENHANCE THE ESTABLISHMENT OF VEGETATION.

APPLICABILITY

1. ON DISTURBED SOILS WHERE SLOPES ARE 2:1 OR STEEPER.

2. WHERE WIND AND TRAFFIC GENERATED AROUND A JOB SITE DISCLOSE STANDARD, UNARMORED MULDCHES.

3. MAY BE USED AS A SUBSTITUTE FOR TEMPORARY SOIL PROTECTION.

4. MAY BE USED AS A SUBSTITUTE FOR MULCH OR SEED.

PLANNING CONSIDERATION

1. THE SUCCESS OF TEMPORARY EROSION CONTROL BLANKETS IS DEPENDENT UPON STRICT ADHERENCE TO THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

MATERIALS

1. TEMPORARY EROSION CONTROL BLANKETS SHALL BE COMPOSED OF FIBERS AND/OR FILAMENTS THAT:

- A. ARE BIODEGRADABLE OR PHOTODEGRADABLE WITHIN TWO YEARS BUT WITHOUT SUBSTANTIAL DEGRADATION OVER THE PERIOD OF INTENDED USAGE (FIVE MONTHS MAXIMUM).
B. ARE MECHANICALLY, STRUCTURALLY OR CHEMICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX OF EVEN THICKNESS AND DISTRIBUTION THAT RESIST RAINFALL SPLASH AND WHEN USED WITH SEEDINGS ALLOW VEGETATION TO PENETRATE THE BLANKET.
C. ARE OF SUFFICIENT STRUCTURAL STRENGTH TO WITHSTAND STRETCHING OR MOVEMENT BY WIND OR WATER WHEN INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
D. ARE FREE OF ANY SUBSTANCE TOXIC TO PLANT GROWTH AND UNPROTECTED HUMAN SKIN OR WHICH INTERFERES WITH SEED GERMINATION.
E. CONTAIN NO CONTAMINANTS THAT POLLUTE THE AIR OR WATER OF THE STATE WHEN PROPERLY APPLIED.
F. PROVIDE EITHER 80% - 89% SOIL COVERAGE WHEN USED AS A SUBSTITUTE FOR MULCH OR 100% INITIAL SOIL COVERAGE WHEN USED AS A SUBSTITUTE FOR TEMPORARY SOIL PROTECTION MEASURE, AND.
G. DO NOT CONTAIN NETTING.

2. MATERIALS SHALL BE SELECTED AS APPROPRIATE FOR THE SPECIFIC SITE CONDITIONS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. USE OF ANY PARTICULAR TEMPORARY EROSION CONTROL BLANKET SHOULD BE SUPPORTED BY MANUFACTURER'S TEST DATA THAT CONFIRMS THE BLANKET MEETS THESE MATERIAL SPECIFICATIONS AND WILL PROVIDE THE SHORT TERM EROSION CONTROL CAPABILITIES NECESSARY FOR THE SPECIFIC PROJECT.

SITE PREPARATION AND INSTALLATION

1. PREPARE THE SURFACE, REMOVE PROTRUDING OBJECTS AND INSTALL TEMPORARY EROSION CONTROL BLANKETS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ENSURE THAT THE ORIENTATION AND ANCHORING OF THE BLANKET IS APPROPRIATE FOR THE SITE.

2. THE BLANKET CAN BE LAID OVER AREAS WHERE SPRIGGED GRASS SEEDINGS HAVE BEEN INSERTED INTO THE SOIL.

3. WHERE LANDSCAPE PLANTINGS ARE PLANNED, LAY THE BLANKET FIRST AND THEN PLANT THROUGH THE BLANKET IN ACCORDANCE WITH LANDSCAPE PLANTING MEASURE.

4. INSPECT THE INSTALLATION TO INSURE THAT ALL LAP JOINTS ARE SECURE, ALL EDGES ARE PROPERLY ANCHORED AND ALL STAPLES OR STAPLING PATTERNS FOLLOW MANUFACTURER'S RECOMMENDATIONS.

MAINTENANCE

1. INSPECT TEMPORARY EROSION CONTROL BLANKETS 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 FOR FAILURES. BLANKET FAILURE HAS OCCURRED WHEN (1) SOILS AND/OR SEED HAVE WASHED AWAY FROM BENEATH THE BLANKET AND THE SOIL SURFACE CAN BE EXPECTED TO CONTINUE TO ERODE AT AN ACCELERATED RATE, AND/OR (2) THE BLANKET HAS BECOME DISLOADED FROM THE SOIL SURFACE OR IS TORN.

2. IF WASHOUTS OR BREAKAVOTS OCCUR, RE-INSTALL THE BLANKET AFTER REGRADING AND RE-SEEDING, ENSURING THAT BLANKET INSTALLATION MEETS DESIGN SPECIFICATIONS. WHEN REPETITIVE FAILURES OCCUR AT THE SAME LOCATION, REVIEW CONDITIONS AND LIMITATIONS FOR USE AND DETERMINE IF DIVERSIONS, STONE CHECK DAMS OR OTHER MEASURES ARE NEEDED TO REDUCE FAILURE RATE.

3. REPAIR ANY DISLOADED OR FAILED BLANKETS IMMEDIATELY.

4. WHEN USED AS A SUBSTITUTE FOR MULCH FOR SEED, CONTINUE TO INSPECT AS REQUIRED BY THE SEEDING MEASURE. WHEN USED AS A SUBSTITUTE FOR TEMPORARY SOIL PROTECTION, CONTINUE TO INSPECT UNTIL IT IS REPLACED BY OTHER EROSION CONTROL MEASURES OR UNTIL WORK RESUMES.

PERMANENT TURF REINFORCEMENT MAT

DEFINITION

1. A MANUFACTURED MAT COMPOSED OF NON-BIODEGRADABLE POLYMER OR SYNTHETIC FIBERS MECHANICALLY, STRUCTURALLY OR CHEMICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX.

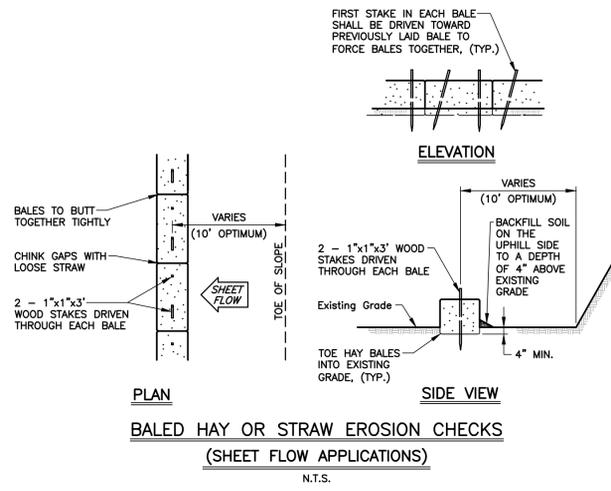
PURPOSE

1. TO PROVIDE PERMANENT TURF REINFORCEMENT WHERE DESIGN FLOWS EXCEED THE STABILITY OF THE SOILS AND/OR PROPOSED VEGETATION.

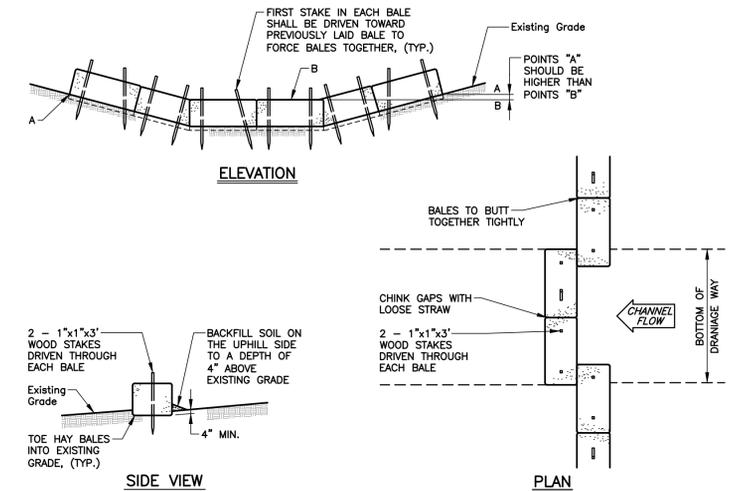
1. TO PROVIDE TEMPORARY SURFACE PROTECTION TO NEWLY SEEDDED AND/OR DISTURBED SOILS TO ABSORB RAINFALL IMPACT AND TO REDUCE SHEET AND RILL EROSION AND TO ENHANCE THE ESTABLISHMENT OF VEGETATION.

APPLICABILITY

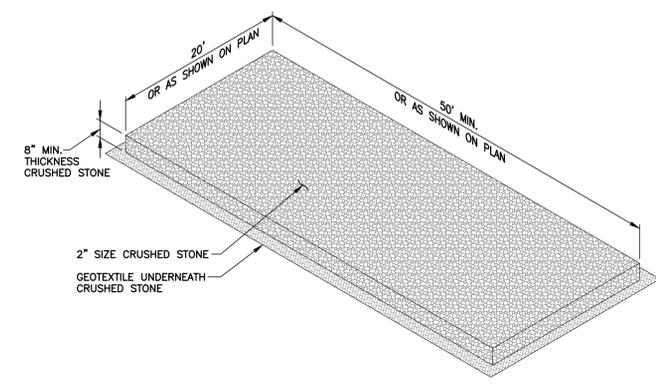
1. ON DISTURBED SOIL



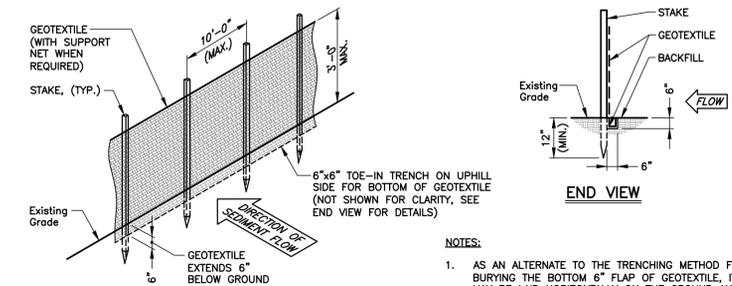
**BALED HAY OR STRAW EROSION CHECKS  
(SHEET FLOW APPLICATIONS)**  
N.T.S.



**BALED HAY OR STRAW EROSION CHECKS  
(CHANNEL FLOW APPLICATIONS)**  
N.T.S.

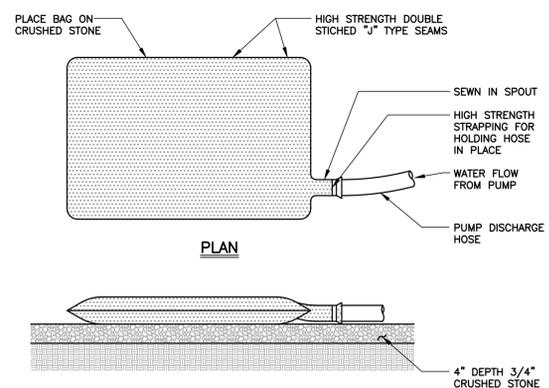


**CONSTRUCTION ENTRANCE**  
N.T.S.

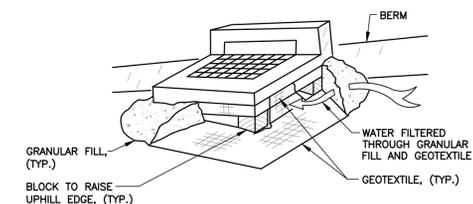


**SEDIMENTATION FENCE**  
N.T.S.

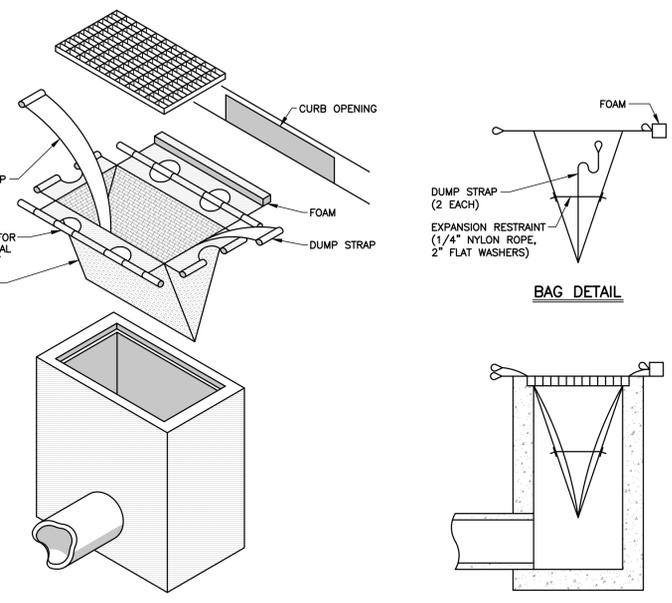
**NOTES:**  
1. AS AN ALTERNATE TO THE TRENCHING METHOD FOR BURYING THE BOTTOM 6" FLAP OF GEOTEXTILE, IT MAY BE LAID HORIZONTALLY ON THE GROUND AND BURIED BY RAUING SOIL UP TO THE SEDIMENTATION FENCE AS SPECIFIED IN SECTION 2.19.03 OF THE STATE OF CT, DEPT. OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 219, 2024, AS AMENDED TO DATE.



**TEMPORARY DEWATERING BASIN**  
N.T.S.



**PRIOR TO TOP COURSE PAVING**  
**NOTES:**  
1. THIS DETAIL APPLIES TO STRUCTURES IN PAVEMENT AND NOT TO STRUCTURES OFF PAVEMENT.



**INSTALLATION SCHEMATIC**

**INSTALLATION DETAIL**

**SEDIMENTATION CONTROL AT DRAINAGE STRUCTURE**  
N.T.S.

**NOTES:**  
1. TYPE "C" CATCH BASIN HEAD SHOWN FOR CLARITY ONLY. THIS DETAIL APPLIES TO ALL STORM DRAINAGE STRUCTURES WITH GRATES AS MAY BE SHOWN ON THE PLAN.  
2. REMOVE SEDIMENT WHEN HALF FULL.

**NOTES:**  
1. SEE GENERAL NOTES, SHEET C0.1.

THIS DRAWING IS INTENDED TO BE USED FOR INFORMATION AND REVIEW PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION.

**TOWN OF  
HEBRON, CONNECTICUT**

**MARTIN ROAD  
IMPROVEMENTS**

**EROSION AND  
SEDIMENT CONTROL  
DETAILS**

**INLAND WETLANDS  
PERMITTING**

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NOT VALID WITHOUT ORIGINAL SEAL

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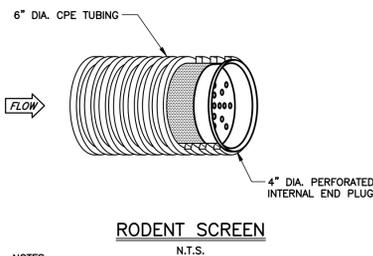
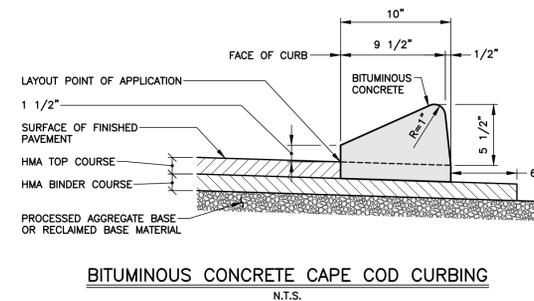
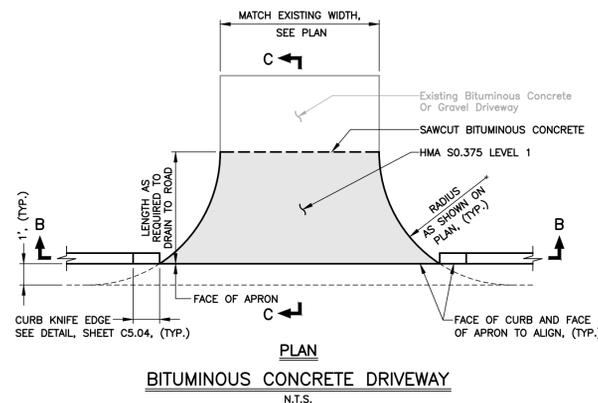
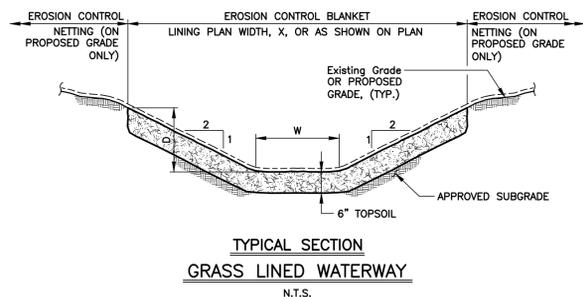
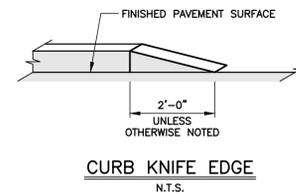
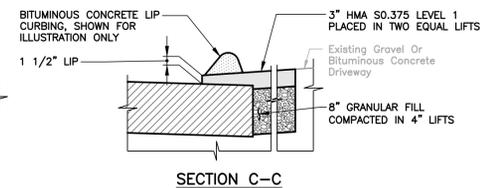
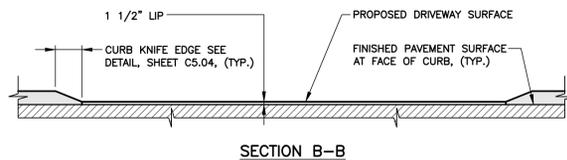
REVISIONS		
No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024  
SCALE: AS NOTED  
PROJECT No.: 06480093  
CADD FILE: 06480093ES  
DESIGNED: ALM  
DRAWN: AJG  
CHECKED: -

SHEET No.:  
**C4.01**

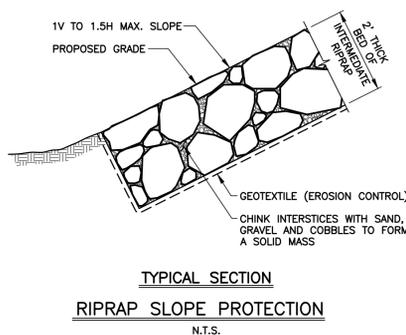


**30"x30"**  
 REFLECTORIZED ALUMINUM SIGNS  
 N.T.S.

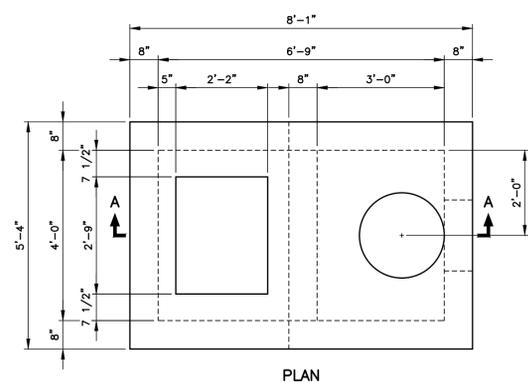


**RODENT SCREEN**  
 N.T.S.

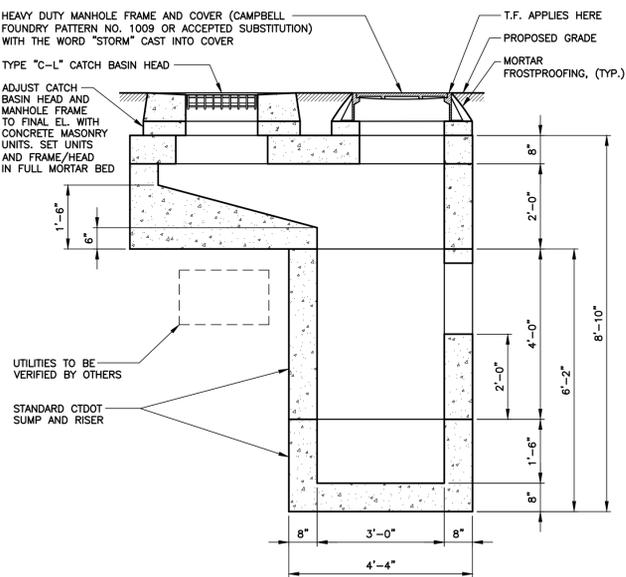
- NOTES:  
 1. INSTALL RODENT SCREENS AT ENDS OF PIPES TO DAYLIGHT. PAYMENT FOR WORK INCLUDED IN UNDERDRAIN PAYMENT ITEM.



**TYPICAL SECTION RIPRAP SLOPE PROTECTION**  
 N.T.S.

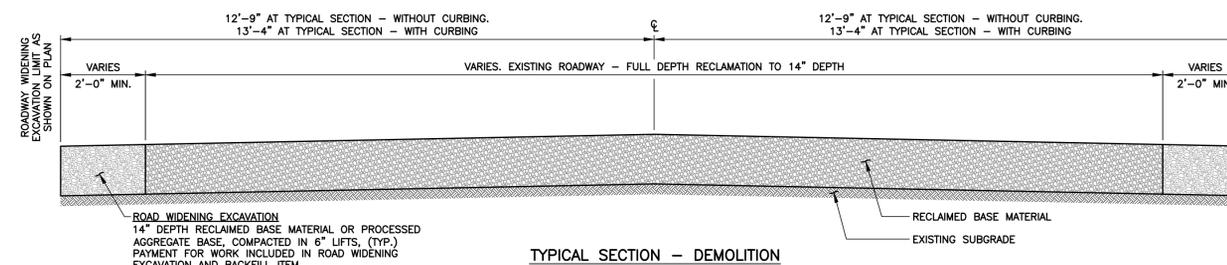


**PLAN**

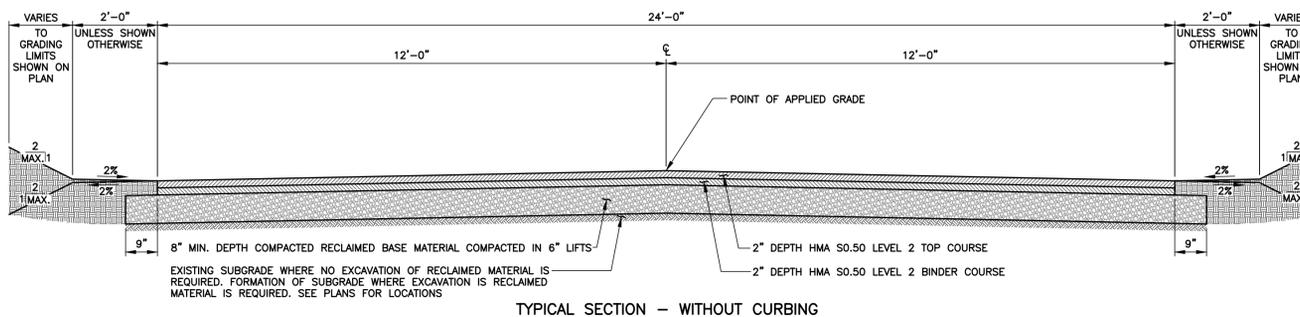


**SECTION A-A**  
**OFFSET CATCH BASIN**  
 N.T.S.

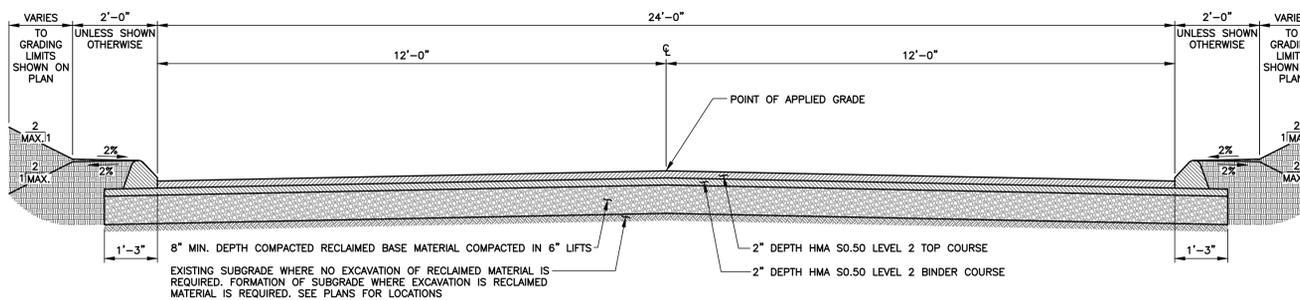
- NOTES:  
 1. PROVIDE MORTAR ON ALL HORIZONTAL SURFACES BETWEEN CATCH BASIN COMPONENTS.



**TYPICAL SECTION - DEMOLITION**



**TYPICAL SECTION - WITHOUT CURBING**



**TYPICAL SECTION - WITH CURBING**

**MARTIN ROAD ROADWAY IMPROVEMENTS**  
 SCALE: 1/2"=1'-0"

**NOTES:**  
 1. SEE GENERAL NOTES, SHEET C0.1.

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GRAPHIC SCALES  
 1"=10' 0" 1"=20' 0" 1"=30' 0"  
 SCALE: 1/2"=1'-0"

**TOWN OF  
 HEBRON, CONNECTICUT**

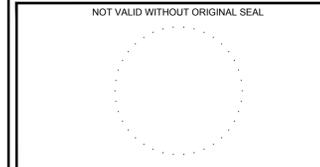
**MARTIN ROAD  
 IMPROVEMENTS**

**DETAILS**

**INLAND WETLANDS  
 PERMITTING**

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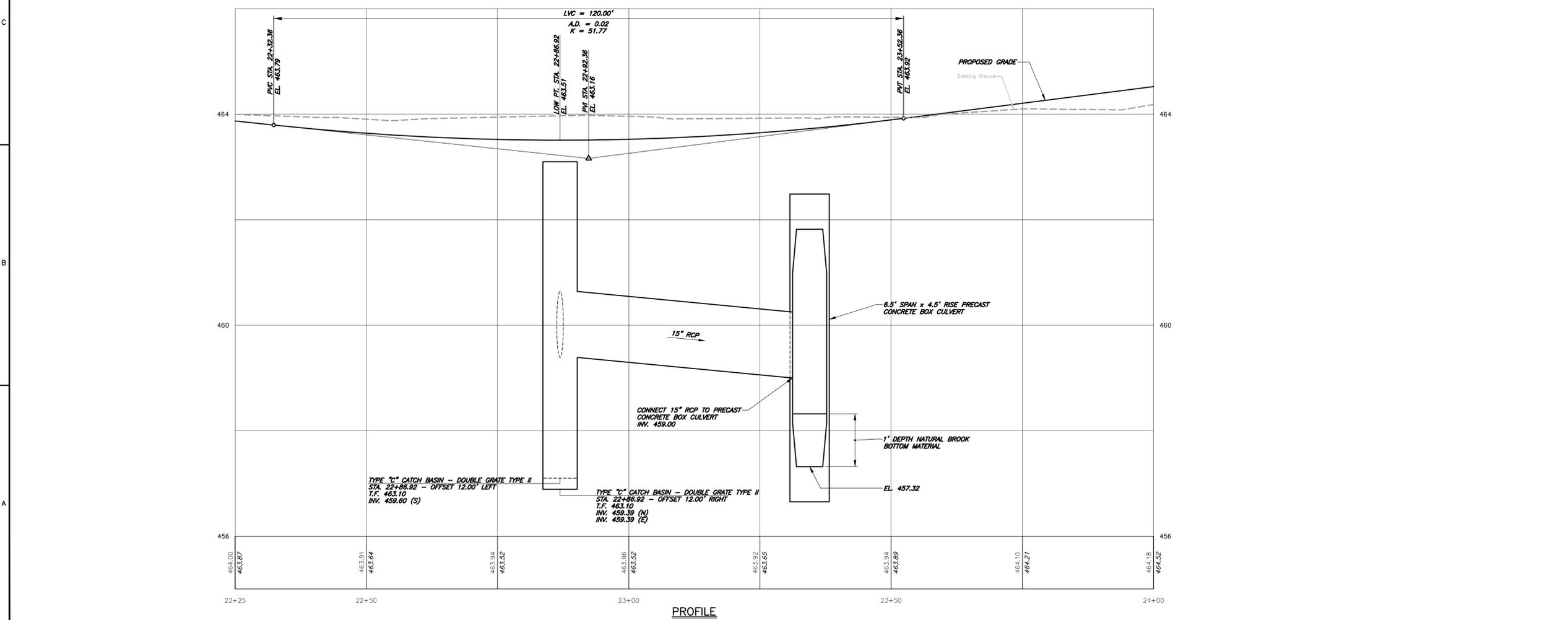
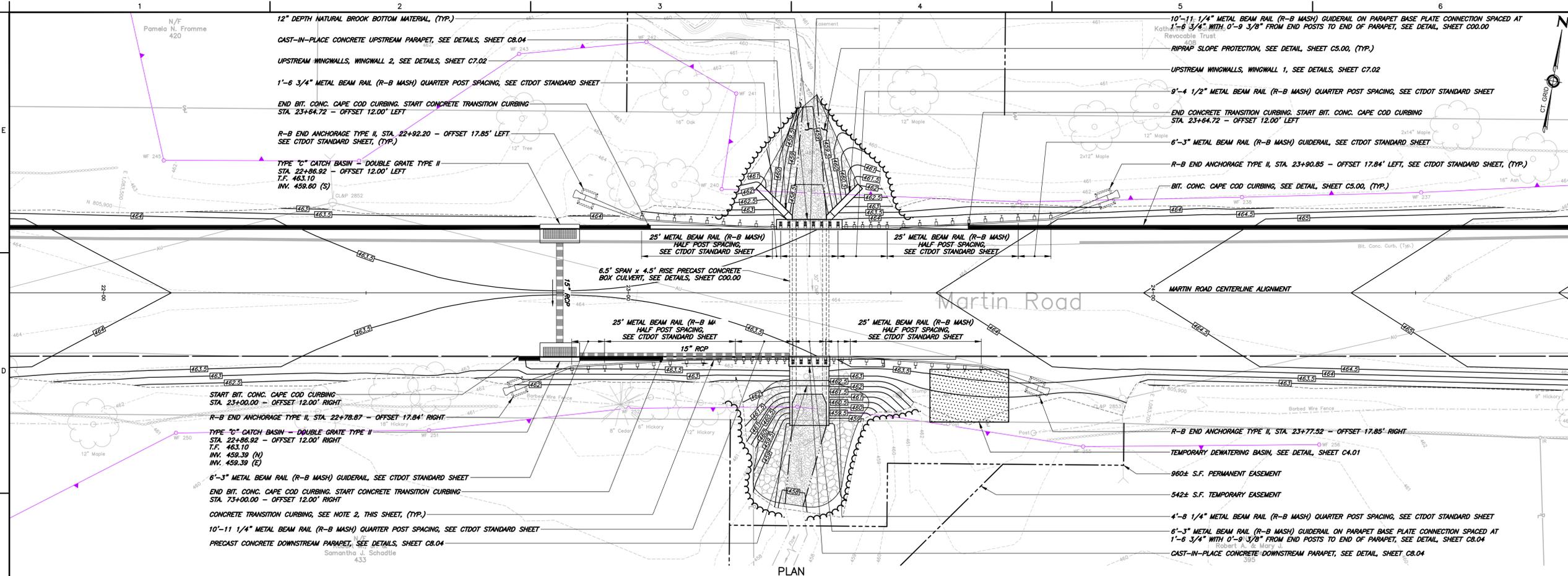


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REVISIONS		
No.	DESCRIPTION	DATE

DATE:	NOVEMBER 2024	SHEET No.:
SCALE:	AS NOTED	
PROJECT No.:	06480093	
CADD FILE:	064800930T	
DESIGNED:	ALM	C5.00
DRAWN:	AJG	
CHECKED:		



**NOTES:**

- SEE GENERAL NOTES, SHEET C0.1.
- CONCRETE CURBING TRANSITION SHALL BE CONCRETE CURBING (6" REVEAL) PER CTDOT STANDARD DRAWINGS. THE CONCRETE CURBING SHALL BE INSTALLED TO PROVIDE A REVEAL HEIGHT TRANSITION FROM BITUMINOUS CONCRETE CAPE COD CURBING TO THE CAST-IN-PLACE CONCRETE PARAPET OR THE CAST-IN-PLACE CONCRETE PARAPET TO NO CURBING. THE CONCRETE CURBING SHALL BE INSTALLED WITH A 1.5" REVEAL WHEN TERMINATING AT BITUMINOUS CONCRETE CAPE COD CURBING. A 6" REVEAL WHEN TERMINATING AT CAST-IN-PLACE CONCRETE PARAPET. AND 0" REVEAL WHEN NO CURBING OR PARAPET IS AT ITS END. THE SLOPE ALONG THE TOP OF THE CURBING SHALL BE CONSTANT. PAYMENT FOR THIS WORK INCLUDED IN "CONCRETE CURBING(6" REVEAL)" ITEM.

THIS DRAWING IS INTENDED TO BE USED FOR INFORMATION AND REVIEW PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION.

GRAPHIC SCALES  
 SCALE: 1"=10' HORIZONTAL  
 SCALE: 1"=1' VERTICAL

TOWN OF  
HEBRON, CONNECTICUT

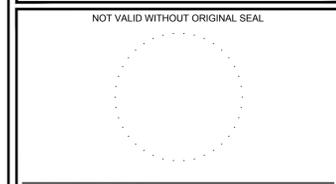
MARTIN ROAD  
IMPROVEMENTS

CULVERT 1  
SITE PLAN

INLAND WETLANDS  
PERMITTING

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REVISIONS		
No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024  
 SCALE: 1"=10' H 1"=1' V  
 PROJECT No.: 06480093  
 CADD FILE: 06480093CLV  
 DESIGNED: ALM  
 DRAWN: AJG  
 CHECKED: -

SHEET No.:  
**C7.00**

**CULVERT GENERAL NOTES:**

- SPECIFICATIONS: PREPARED BY NATHAN L. JACOBSON & ASSOCIATES, INC. TECHNICAL PORTION IS BASED SUBSTANTIALLY ON CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 819 (2024).
- DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8<sup>TH</sup> EDITION, 2017, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003), REVISED THROUGH DECEMBER 2019.
- ALLOWABLE DESIGN STRESSES:  
 CLASS PCC03340 CONCRETE BASED ON  $f'_c = 3,000$  psi  
 CLASS PCC04462 CONCRETE BASED ON  $f'_c = 4,000$  psi  
  
 THE CONCRETE STRENGTH,  $f'_c$ , USED IN DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES, AND M.03 - PORTLAND CEMENT CONCRETE.  
  
 REINFORCEMENT (ASTM A 615 GRADE 60)  $f_y = 60,000$  psi
- LIVE LOAD: HL-93, LEGAL AND PERMIT VEHICLES.
- FUTURE PAVING ALLOWANCE: NONE.
- FOUNDATION PRESSURES: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
- DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.
- CLASS PCC03340 CONCRETE: CLASS PCC03340 CONCRETE SHALL BE USED FOR CUT-OFF WALLS, RETURN WALLS, WINGWALL FOOTINGS, WINGWALL STEMS, AND MUD SLAB.
- CLASS PCC04462 CONCRETE: CLASS PCC04462 CONCRETE SHALL BE USED FOR PARAPETS AND END WALL STEMS.
- JOINT SEAL: SEE SPECIFICATIONS.
- EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" x 1" UNLESS DIMENSIONED OTHERWISE.
- CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE 2" COVER UNLESS DIMENSIONED OTHERWISE.
- REINFORCEMENT: ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS.
- CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- CAST-IN-PLACE CONCRETE: THE SAME READY-MIX CONCRETE SUPPLIER SHALL BE USED FOR ALL CAST-IN-PLACE CONCRETE.
- LAP SPLICES: LAP SPLICES, OTHER THAN THOSE SHOWN ON THE DRAWINGS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- MINIMUM LAP SPLICE LENGTHS: UNLESS OTHERWISE SHOWN:  
 #4 30"  
 #5 48"  
 #6 60"  
 #7 72"  
 #8 72"

- CAST INSERTS OR HOLES: INSERTS OR HOLES CAST INTO THE CULVERT SECTIONS FOR THE SOLE PURPOSE OF HANDLING AND SEATING THE UNITS SHALL BE GROUTED OVER TO A SMOOTH FINISH UPON COMPLETION OF THE WORK.
- INSERTS: INSERTS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153, AND SHALL BE ONE OF THE FOLLOWING:  
 STAR EXPANSION INDUSTRIES CORP. TYPE P-35-T  
 RICHMOND SCREW ANCHOR COMPANY TYPE LF  
 DAYTON SUPERIOR CORPORATION TYPE F-57
- THREADED BARS: BARS WITH THREADED ENDS SHALL BE COMPATIBLE WITH THREADED INSERTS. THREADS SHALL BE LONG ENOUGH TO FULLY ENGAGE THE INSERTS. THREADED BARS SHALL CONFORM TO THE REQUIREMENTS FOR REINFORCEMENT IN NOTE 3.
- DOWEL BAR SPLICER ASSEMBLIES: DOWEL BAR SPLICER ASSEMBLIES SHALL BE ONE OF THE FOLLOWING:  
 RICHMOND SCREW ANCHOR COMPANY D-B-SAE AND DOWEL-IN  
 DAYTON SUPERIOR CORPORATION D-50 DBR COUPLER  
 OKABE COMPANY, INC. DS SPLICE CLIP
- EXCAVATION TO SUBGRADE SHALL BE MADE WITH A SMOOTH EDGED BUCKET.

**HYDRAULIC DATA**

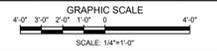
DRAINAGE AREA	121 AC.
DESIGN FREQUENCY	50 YEAR
DESIGN DISCHARGE	122 CFS
CULVERT UPSTREAM DESIGN WATER SURFACE ELEVATION	462.19 FT.

**CULVERT LAYOUT / ELEVATION TABLE**

POINT	DESCRIPTION	STATION - OFFSET	ELEVATION
1	TOP OF FINISHED PAVEMENT AT CAST-IN-PLACE CONCRETE PARAPET	23+28.22 - 12.00' LEFT	463.43
2	TOP OF FINISHED PAVEMENT AT CULVERT CENTERLINE	23+34.47 - 12.00' LEFT	463.49
3	TOP OF FINISHED PAVEMENT AT CAST-IN-PLACE CONCRETE PARAPET	23+40.72 - 12.00' LEFT	463.55
4	TOP OF FINISHED PAVEMENT AT CULVERT CENTERLINE	23+34.47 - 0.00	463.73
5	TOP OF FINISHED PAVEMENT AT CAST-IN-PLACE CONCRETE PARAPET	23+30.56 - 12.00' RIGHT	463.45
6	TOP OF FINISHED PAVEMENT AT CULVERT CENTERLINE	23+34.47 - 12.00' RIGHT	463.49
7	TOP OF FINISHED PAVEMENT AT CAST-IN-PLACE CONCRETE PARAPET	23+38.37 - 12.00' RIGHT	463.52
8	CENTERLINE OF CULVERT NORTH STRUCTURE LIMIT	23+34.47 - 13.67' LEFT	-
9	CENTERLINE OF CULVERT SOUTH STRUCTURE LIMIT	23+34.47 - 25.12' RIGHT	-
10	WINGWALL 1 END	23+25.23 - 20.65' LEFT	-
11	WINGWALL 2 END	23+43.71 - 20.65' LEFT	-

NOTES:  
1. SEE GENERAL NOTES, SHEET C0.1.

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TOWN OF  
HEBRON, CONNECTICUT

MARTIN ROAD  
IMPROVEMENTS

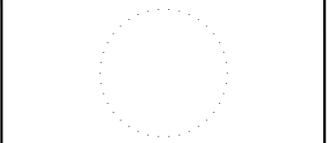
CULVERT 1  
GENERAL PLAN

INLAND WETLANDS  
PERMITTING

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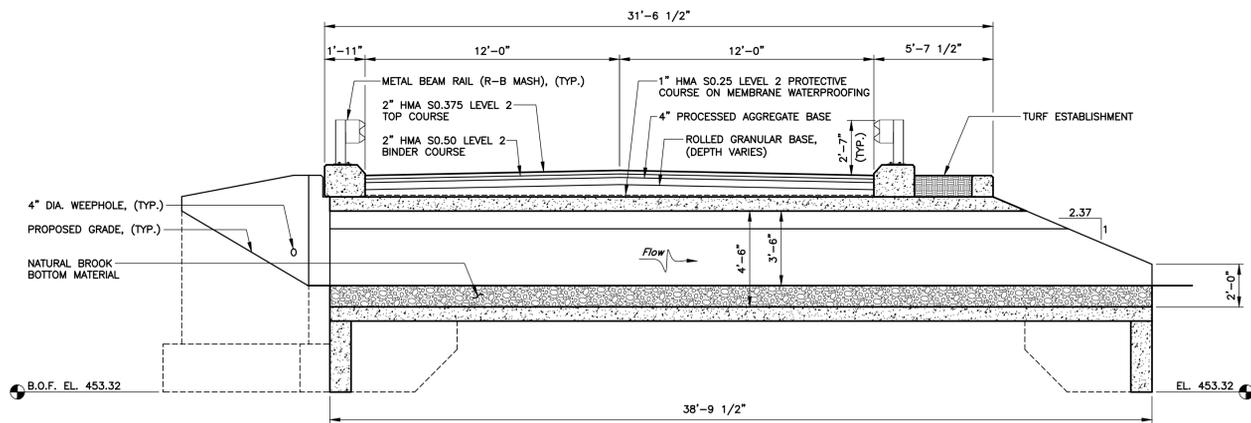


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REVISIONS		
No.	DESCRIPTION	DATE

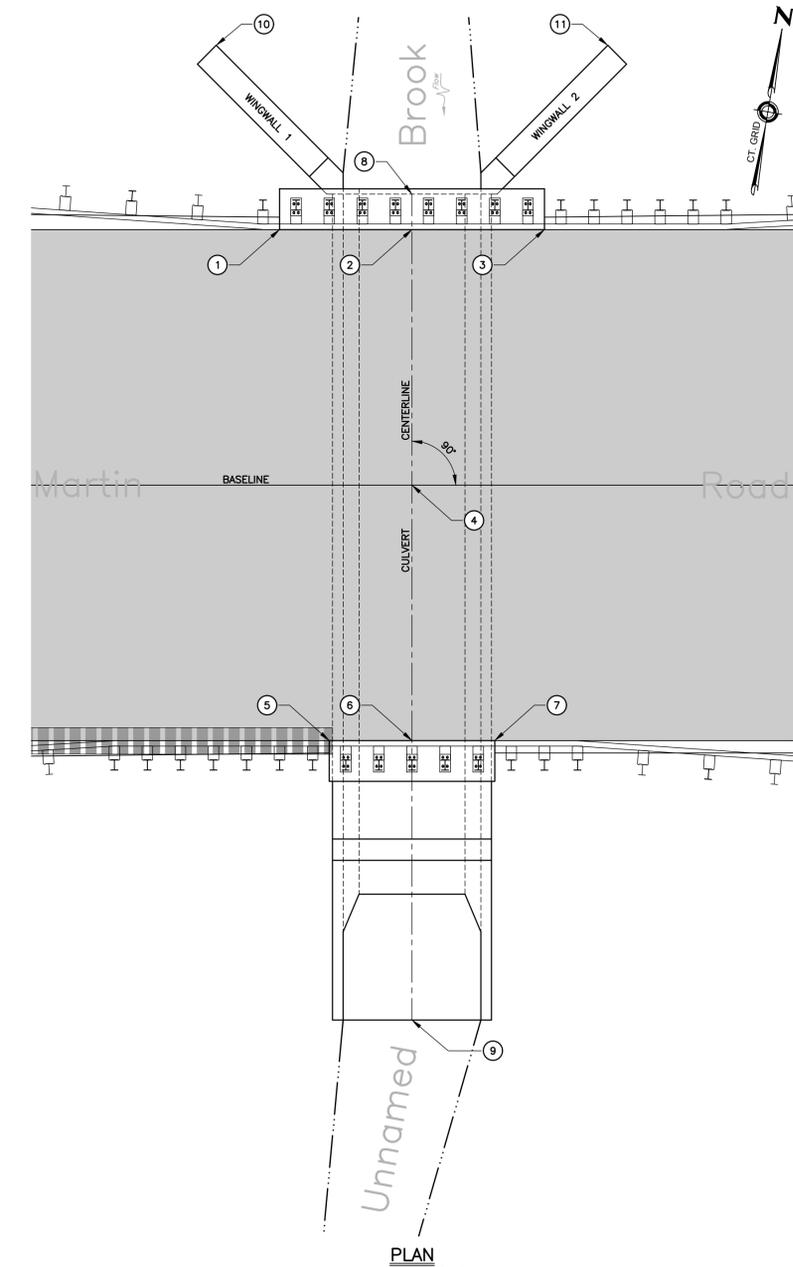
DATE: NOVEMBER 2024  
 SCALE: 1/4"=1'-0"  
 PROJECT No.: 06480093  
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 DESIGNED: ALM  
 DRAWN: AJG  
 CHECKED: -

SHEET No.:  
**C7.01**

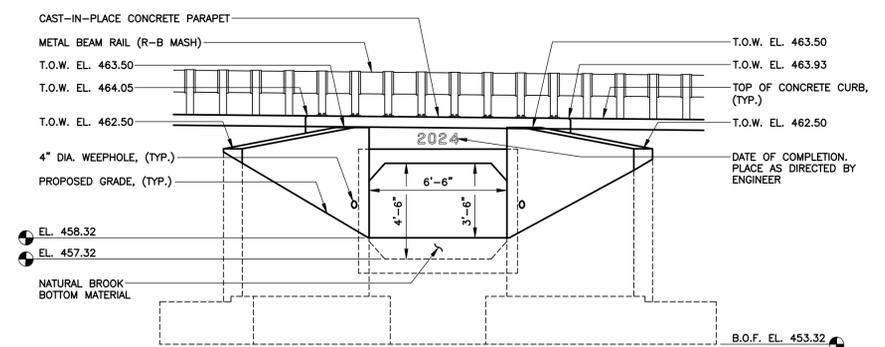


SECTION @ 23+34.42 PERPENDICULAR TO ROADWAY CENTERLINE  
SCALE: 1/4"=1'-0"

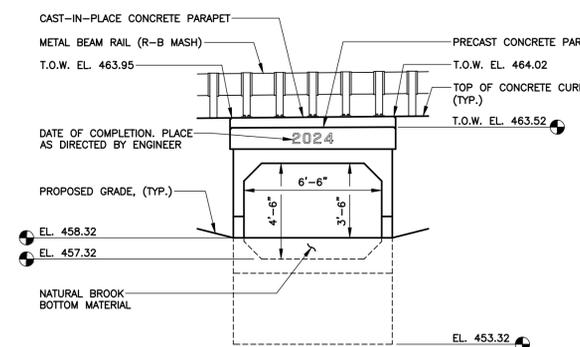
NOTES:  
1. WEEPHOLES NOT SHOWN.



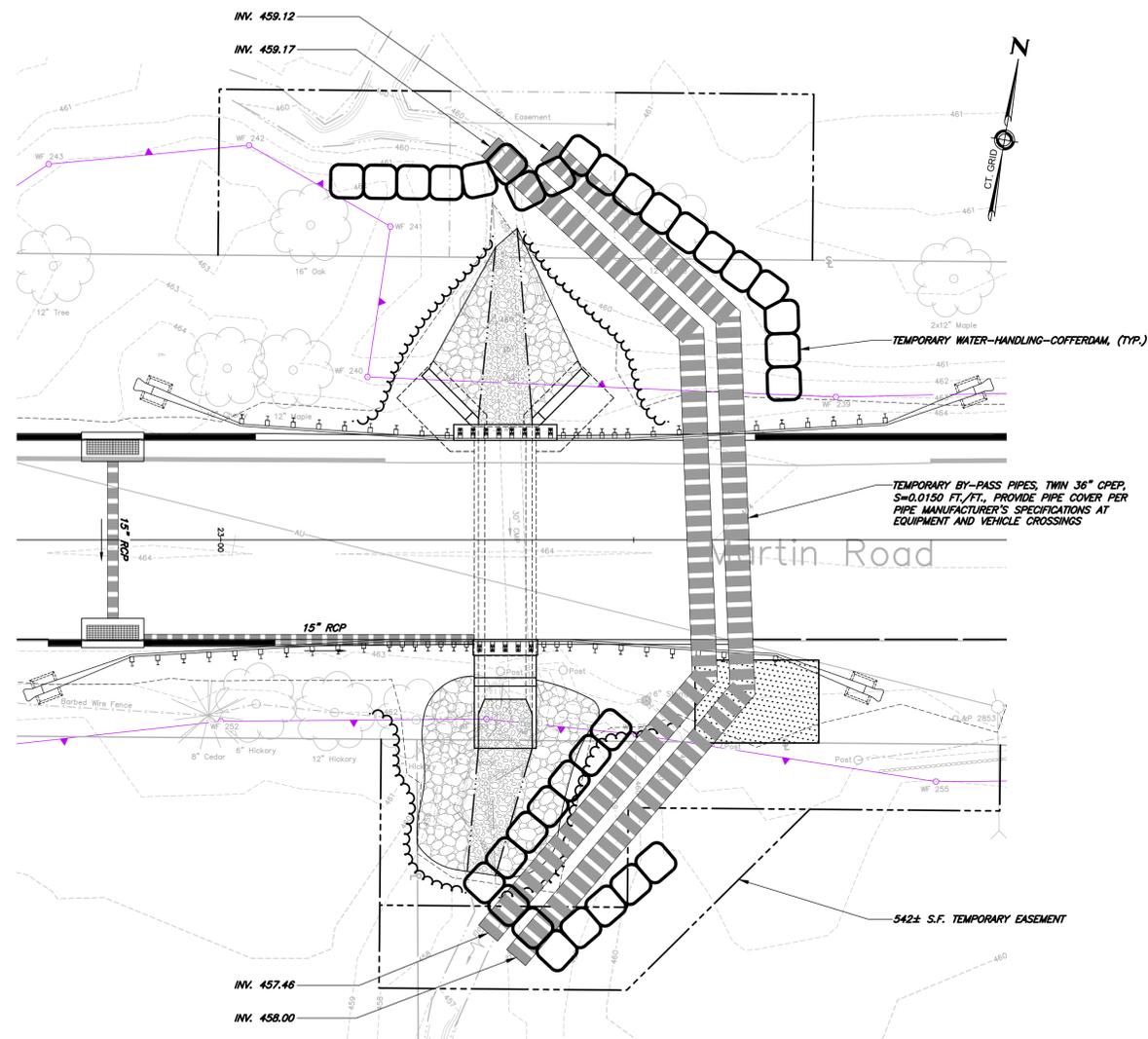
PLAN  
SCALE: 1/4"=1'-0"



UPSTREAM ELEVATION  
SCALE: 1/4"=1'-0"



DOWNSTREAM ELEVATION  
SCALE: 1/4"=1'-0"

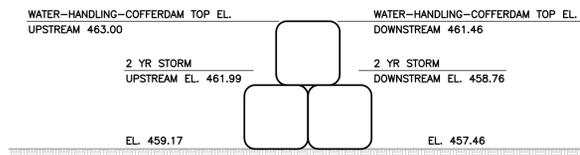


**COFFERDAM NOTES:**

1. THE LAYOUT OF WATER-HANDLING-COFFERDAMS SHOWN ON THIS DRAWING IS FOR ILLUSTRATION ONLY. ACTUAL LAYOUT CONFIGURATION FOR INSTALLATION SHALL BE SELECTED AND DESIGNED BY THE CONTRACTOR TO CONFORM TO THE CONTRACTOR'S PROPOSED CONSTRUCTIONS MEANS, METHODS, TECHNIQUES, SEQUENCES AND SITE SAFETY.
2. THE CONTRACTOR SHALL DESIGN AND PROVIDE WATER-HANDLING-COFFERDAMS TO DEWATER THE WORK AREA AND CONVEY FLOWS THROUGH THE CONSTRUCTION SITE IN A CONTROLLED MANNER, FOR NOT LESS THAN THE TEMPORARY DESIGN STORM FREQUENCY, DISCHARGE, AND WATER SURFACE ELEVATION SHOWN IN THE TEMPORARY HYDRAULIC DATA BELOW.
3. AT LEAST 30 DAYS PRIOR TO CONSTRUCTING OR INSTALLING COFFERDAM(S), THE CONTRACTOR SHALL SUBMIT DETAILED COFFERDAM PLANS AND COMPUTATIONS TO THE ENGINEER FOR REVIEW AND COMMENT. THE FURNISHING OF SUCH PLANS AND METHODS AND THE REVIEW COMMENTS OR LACK THEREOF BY THE ENGINEER ON SAID INFORMATION, SHALL NOT SERVE TO RELIEVE THE CONTRACTOR OF ITS SOLE RESPONSIBILITY FOR THE SAFETY OF THE WORK, SUCCESS OF THE COFFERDAM(S), AND THE SUCCESSFUL COMPLETION OF THE PROJECT.
4. TAKE MEASURES DURING DEWATERING OPERATIONS TO PREVENT THE DISCHARGE OF DISCOLORED WATER. THE DETERMINATION OF THE TERM 'DISCOLORED' SHALL BE AS DETERMINED BY THE ENGINEER.

**TEMPORARY HYDRAULIC DATA**

2-YEAR FREQUENCY DISCHARGE	58 cfs
TEMPORARY DESIGN DISCHARGE	58 cfs
TEMPORARY DESIGN FREQUENCY	2+ YEAR
TEMPORARY WATER SURFACE ELEVATION UPSTREAM	461.99 ft
TEMPORARY WATER SURFACE ELEVATION DOWNSTREAM	458.78 ft



**TEMPORARY WATER-HANDLING-COFFERDAM**

**NOTES:**

1. COFFERDAM MATERIAL, DESIGN AND CONFIGURATION SHALL BE SELECTED BY CONTRACTOR. SAND BAG SIZE, NUMBER AND ORIENTATION ARE SHOWN FOR ILLUSTRATION ONLY.

- NOTES:**
1. SEE GENERAL NOTES, SHEET C0.1.
  2. SEE CULVERT 1 TEMPORARY CONSTRUCTION ROAD CLOSURE PLAN, SHEET C6.00 FOR TEMPORARY TRAFFIC CONTROL MEASURES TO CLOSE ROAD.

THIS DRAWING IS INTENDED TO BE USED FOR INFORMATION AND REVIEW PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION.



TOWN OF  
HEBRON, CONNECTICUT

MARTIN ROAD  
IMPROVEMENTS

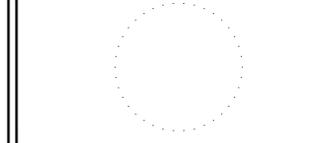
CULVERT 1 TEMPORARY  
STORMWATER BYPASS  
PLAN

INLAND WETLANDS  
PERMITTING

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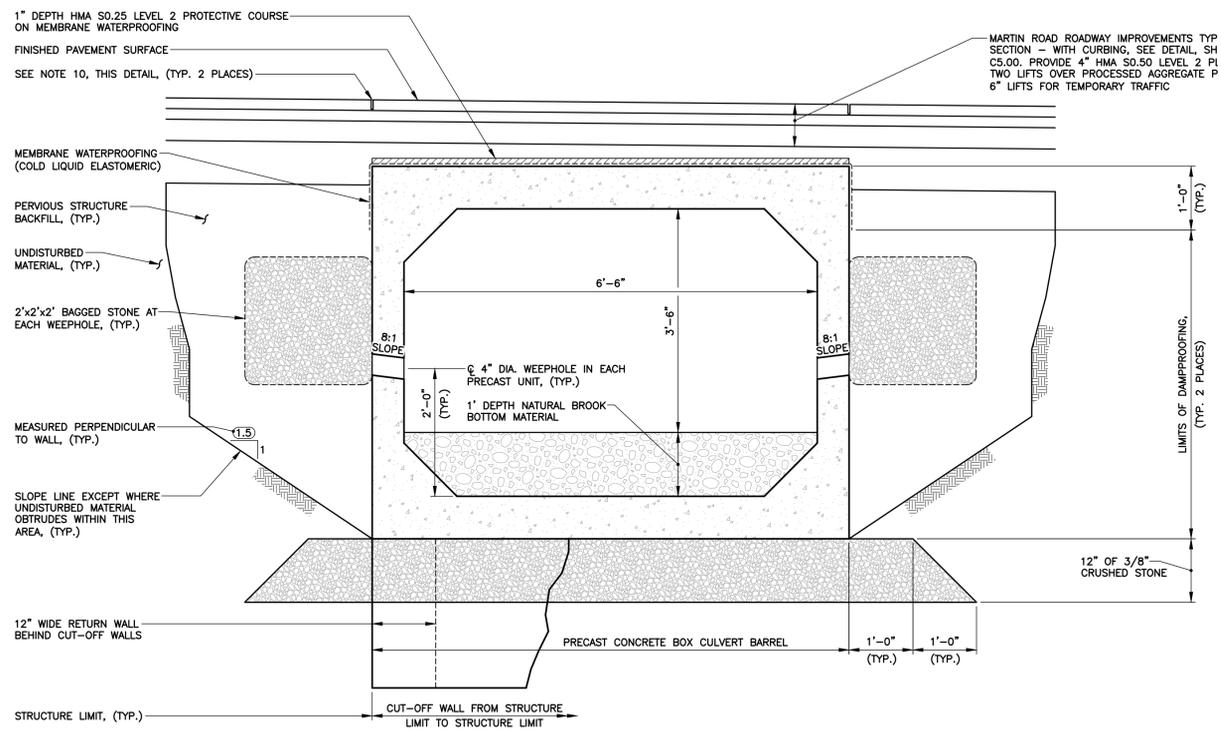


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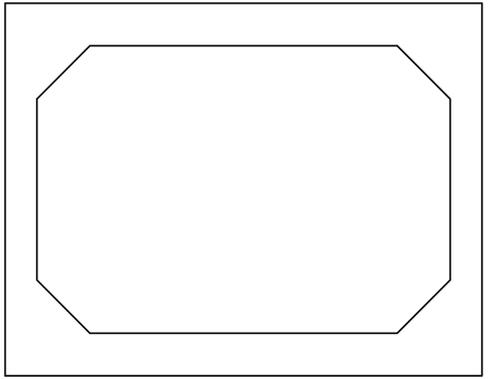
REVISIONS		
No.	DESCRIPTION	DATE

DATE:	NOVEMBER 2024	SHEET No.:	C7.02
SCALE:	1"=10'		
PROJECT No.:	06480093		
CADD FILE:	06480093CLV		
DESIGNED:	ALM		
DRAWN:	AJG		
CHECKED:	-		

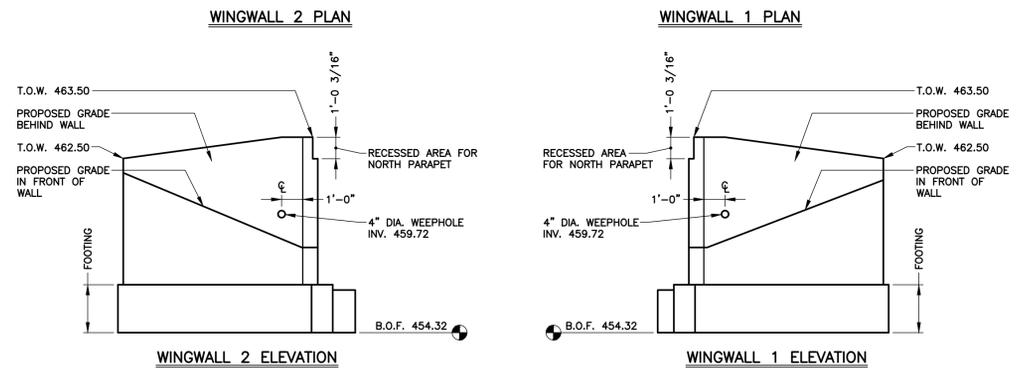
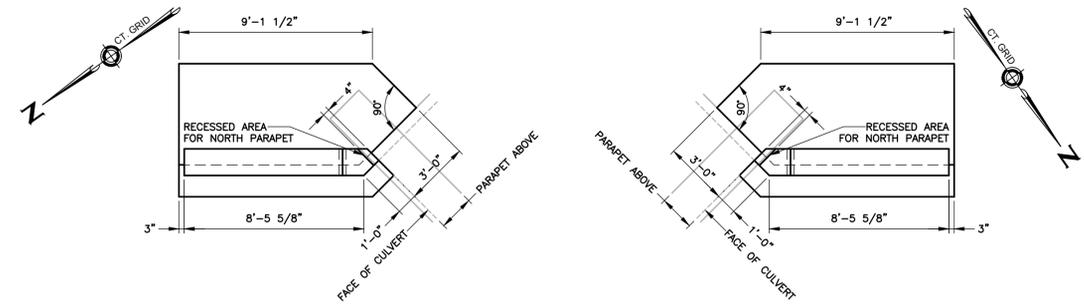


**TYPICAL SECTION LOOKING UPSTREAM  
PRECAST CONCRETE BOX CULVERT**  
SCALE: 3/4"=1'-0"

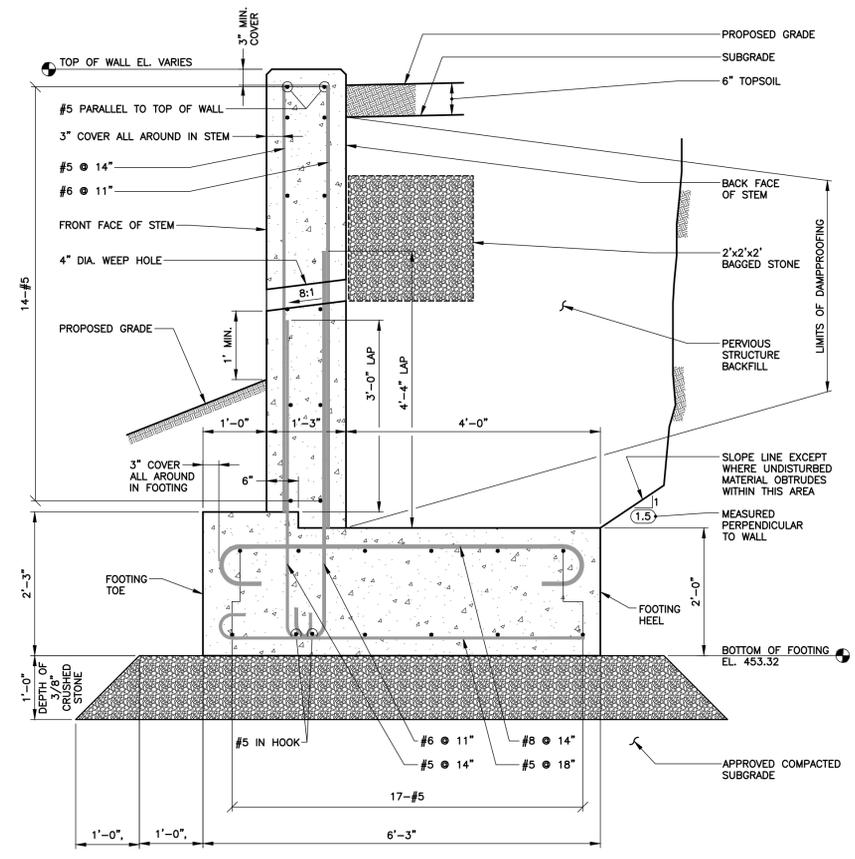
- NOTES:**
- REFER TO SPECIFICATIONS FOR CONCRETE MATERIAL REQUIREMENTS.
  - ALL REINFORCEMENT IN THE CULVERT BARREL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. SEE SPECIFICATIONS.
  - COORDINATE PARAPET CONNECTION TO BARREL ROOF DETAIL.
  - DETERMINE LENGTH OF EACH BARREL SEGMENT PRIOR TO MANUFACTURE.
  - PROVIDE A KEYS JOINT BETWEEN ADJACENT SECTIONS OF CULVERT BARREL CONTAINING A CONTINUOUS GASKET TO MAINTAIN A WATERTIGHT AND FLEXIBLE JOINT. SEE SPECIFICATIONS.
  - MAXIMUM ALLOWABLE DESIGN FOUNDATION PRESSURE = 4,000 psf.
  - IF UNSTABLE MATERIAL IS ENCOUNTERED, IT SHALL BE EXCAVATED TO A DEPTH AS DETERMINED BY THE ENGINEER AND REPLACED WITH MATERIALS DETERMINED BY THE ENGINEER.
  - COORDINATE LIFTING AND SETTING DETAILS.
  - BACKFILL ON SIDES OF BARREL SHALL BE PLACED SIMULTANEOUSLY WITH NO MORE THAN 1' ELEVATION DIFFERENTIAL AT ANY TIME.
  - CUT FINAL CONTRACT OVERLAY AT STRUCTURE LIMIT WITH A 3/8"x1 3/4" DEEP KERF CUT AND FILL WITH POURABLE BITUMINOUS SEALANT.



**TYPICAL SECTION  
PRECAST CONCRETE BOX CULVERT BARREL REINFORCEMENT**  
SCALE: 3/4"=1'-0"



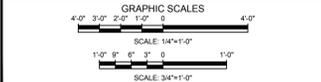
**UPSTREAM WINGWALLS**  
SCALE: 1/4"=1'-0"



**TYPICAL SECTION  
WING WALL**  
SCALE: 3/4"=1'-0"

**NOTES:**  
1. SEE GENERAL NOTES, SHEET C0.1.

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**TOWN OF  
HEBRON, CONNECTICUT**

**MARTIN ROAD  
IMPROVEMENTS**

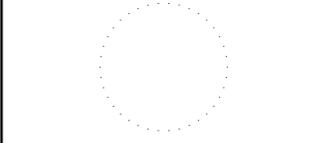
**CULVERT 1  
CULVERT DETAILS,  
WINGWALL PLANS,  
ELEVATIONS AND DETAILS**

**INLAND WETLANDS  
PERMITTING**

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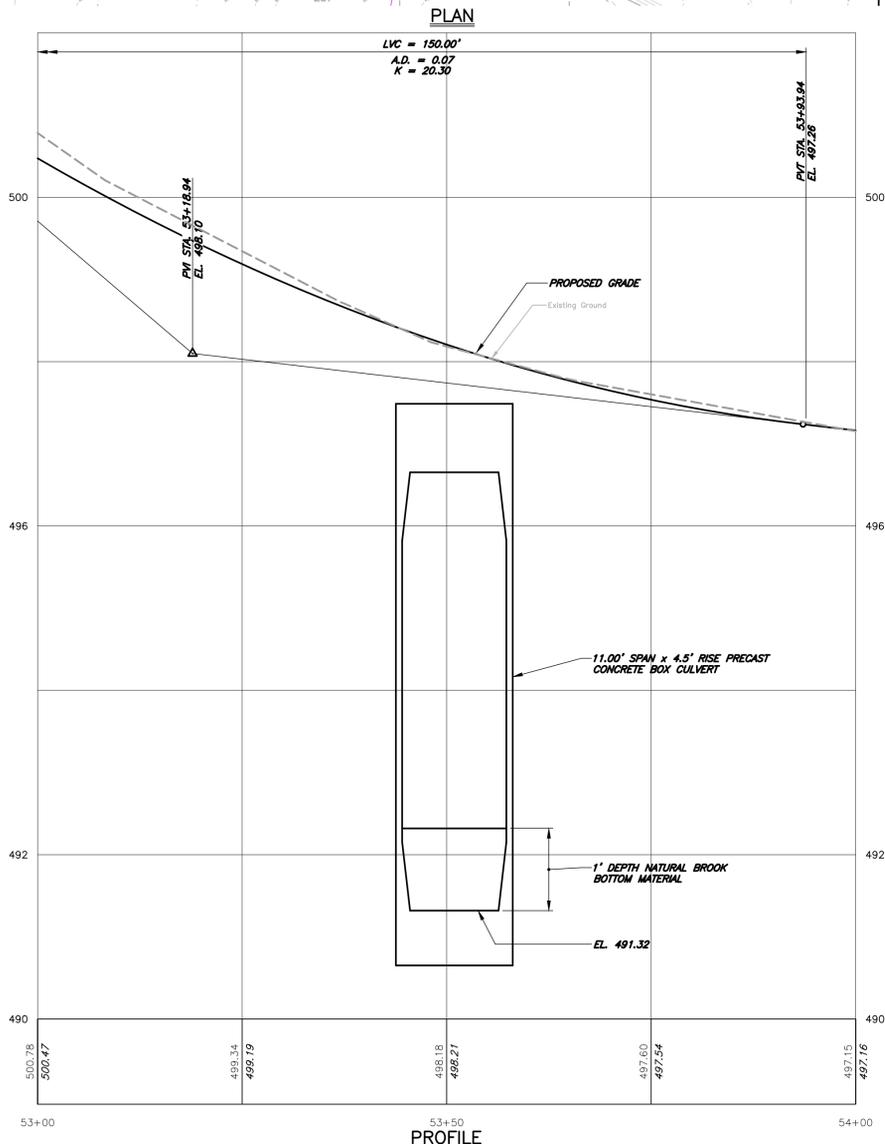
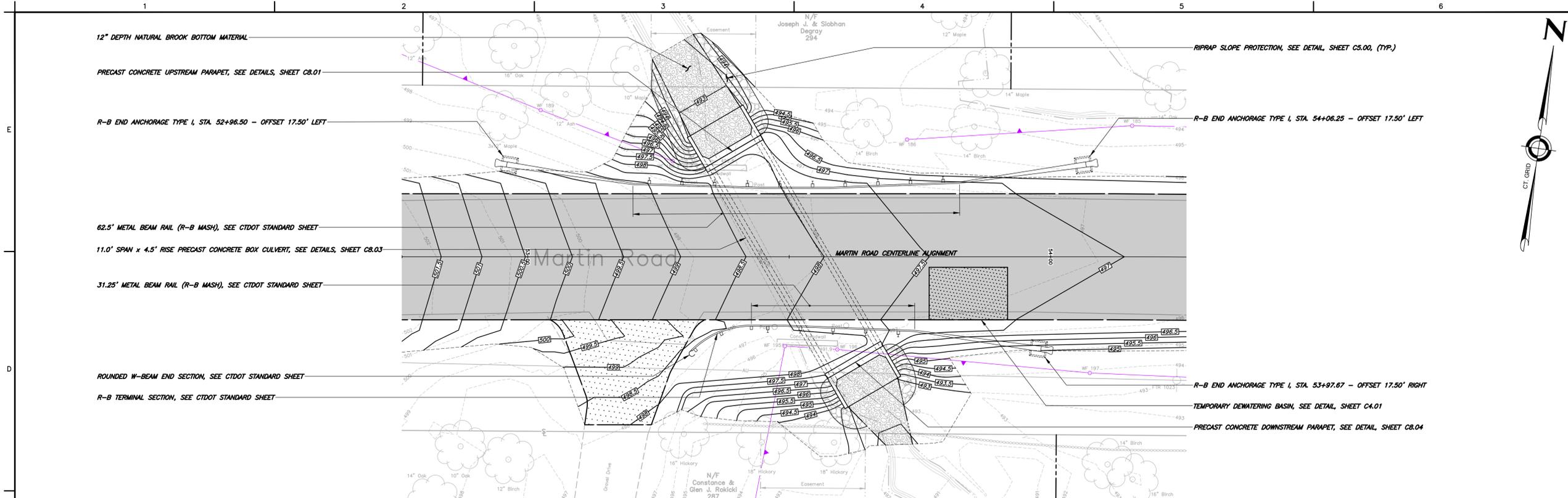


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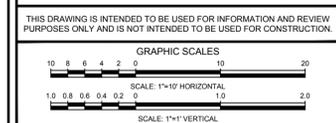
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REVISIONS		
No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024	SHEET No.:
SCALE: AS NOTED	C7.03
PROJECT No.: 06480093	
CADD FILE: 06840093CLV	
DESIGNED: ALM	
DRAWN: AJG	
CHECKED: -	



**NOTES:**  
1. SEE GENERAL NOTES, SHEET C0.1.



TOWN OF  
HEBRON, CONNECTICUT

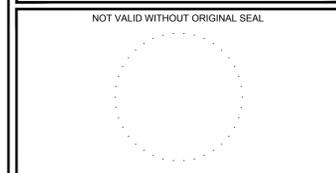
MARTIN ROAD  
IMPROVEMENTS

CULVERT 2  
SITE PLAN

INLAND WETLANDS  
PERMITTING

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REVISIONS		
No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024  
SCALE: 1"=10'  
PROJECT No.: 0640093  
CADD FILE: 0640093CLV  
DESIGNED: ALM  
DRAWN: A.J.G.  
CHECKED: -

SHEET No.:  
**C8.00**

**CULVERT GENERAL NOTES:**

- SPECIFICATIONS: PREPARED BY NATHAN L. JACOBSON & ASSOCIATES, INC. TECHNICAL PORTION IS BASED SUBSTANTIALLY ON CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 819 (2024).
- DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8<sup>TH</sup> EDITION, 2017, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003), REVISED THROUGH DECEMBER 2019.
- ALLOWABLE DESIGN STRESSES:  
 CLASS PCC03340 CONCRETE BASED ON  $f'_c = 3,000$  psi  
 CLASS PCC04462 CONCRETE BASED ON  $f'_c = 4,000$  psi  
 THE CONCRETE STRENGTH,  $f_c$ , USED IN DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES, AND M.03 - PORTLAND CEMENT CONCRETE.  
 REINFORCEMENT (ASTM A 615 GRADE 60)  $f_y = 60,000$  psi
- LIVE LOAD: HL-93, LEGAL AND PERMIT VEHICLES.
- FUTURE PAVING ALLOWANCE: NONE.
- FOUNDATION PRESSURES: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFER TO THE GROUP LOADS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
- DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.
- CLASS PCC03340 CONCRETE: CLASS PCC03340 CONCRETE SHALL BE USED FOR CUT-OFF WALLS, RETURN WALLS, WINGWALL FOOTINGS, WINGWALL STEMS, AND MUD SLAB.
- CLASS PCC04462 CONCRETE: CLASS PCC04462 CONCRETE SHALL BE USED FOR PARAPETS AND END WALL STEMS.
- JOINT SEAL: SEE SPECIFICATIONS.
- EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" x 1" UNLESS DIMENSIONED OTHERWISE.
- CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE 2" COVER UNLESS DIMENSIONED OTHERWISE.
- REINFORCEMENT: ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS.
- CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- CAST-IN-PLACE CONCRETE: THE SAME READY-MIX CONCRETE SUPPLIER SHALL BE USED FOR ALL CAST-IN-PLACE CONCRETE.
- LAP SPLICES: LAP SPLICES, OTHER THAN THOSE SHOWN ON THE DRAWINGS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- MINIMUM LAP SPLICE LENGTHS: UNLESS OTHERWISE SHOWN:  
 #4 30"  
 #5 48"  
 #6 60"  
 #7 72"  
 #8 72"

- CAST INSERTS OR HOLES: INSERTS OR HOLES CAST INTO THE CULVERT SECTIONS FOR THE SOLE PURPOSE OF HANDLING AND SEATING THE UNITS SHALL BE GROUTED OVER TO A SMOOTH FINISH UPON COMPLETION OF THE WORK.
- INSERTS: INSERTS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153, AND SHALL BE ONE OF THE FOLLOWING:  
 STAR EXPANSION INDUSTRIES CORP. TYPE P-35-T  
 RICHMOND SCREW ANCHOR COMPANY TYPE LF  
 DAYTON SUPERIOR CORPORATION TYPE F-57
- THREADED BARS: BARS WITH THREADED ENDS SHALL BE COMPATIBLE WITH THREADED INSERTS. THREADS SHALL BE LONG ENOUGH TO FULLY ENGAGE THE INSERTS. THREADED BARS SHALL CONFORM TO THE REQUIREMENTS FOR REINFORCEMENT IN NOTE 3.
- DOWEL BAR SPLICER ASSEMBLIES: DOWEL BAR SPLICER ASSEMBLIES SHALL BE ONE OF THE FOLLOWING:  
 RICHMOND SCREW ANCHOR COMPANY D-B-SAE AND DOWEL-IN  
 DAYTON SUPERIOR CORPORATION D-50 DBR COUPLER  
 OKABE COMPANY, INC. DS SPLICE CLIP
- EXCAVATION TO SUBGRADE SHALL BE MADE WITH A SMOOTH EDGED BUCKET.

**HYDRAULIC DATA**

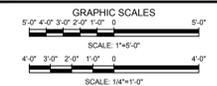
DRAINAGE AREA	156 AC.
DESIGN FREQUENCY	50 YEAR
DESIGN DISCHARGE	137 CFS
CULVERT UPSTREAM DESIGN WATER SURFACE ELEVATION	496.27 FT.

**CULVERT LAYOUT / ELEVATION TABLE**

POINT	DESCRIPTION	STATION - OFFSET	ELEVATION
1	TOP OF FINISHED PAVEMENT AT EDGE OF PAVEMENT	53+43.93 - 12.00' LEFT	498.18
2	TOP OF FINISHED PAVEMENT AT CULVERT CENTERLINE	53+50.93 - 0.00	498.18
3	TOP OF FINISHED PAVEMENT AT EDGE OF PAVEMENT	53+57.94 - 12.00' RIGHT	497.74
4	CENTERLINE OF CULVERT NORTH STRUCTURE LIMIT	53+35.85 - 25.83' LEFT	-
5	CENTERLINE OF CULVERT SOUTH STRUCTURE LIMIT	53+66.02 - 25.83' RIGHT	-

NOTES:  
1. SEE GENERAL NOTES, SHEET C0.1.

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TOWN OF  
HEBRON, CONNECTICUT

MARTIN ROAD  
IMPROVEMENTS

CULVERT 2  
GENERAL PLAN

INLAND WETLANDS  
PERMITTING

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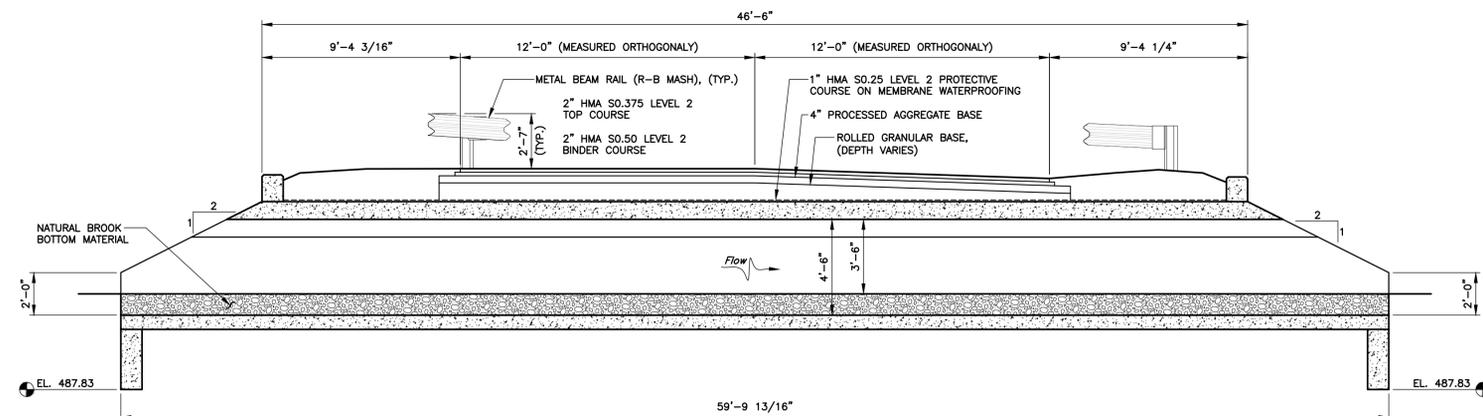
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No.	DESCRIPTION	DATE

DATE: NOVEMBER 2024	SHEET No.:
SCALE: AS NOTED	C8.01
PROJECT No.: 06480093	
CADD FILE: 06840093CLV	
DESIGNED: ALM	
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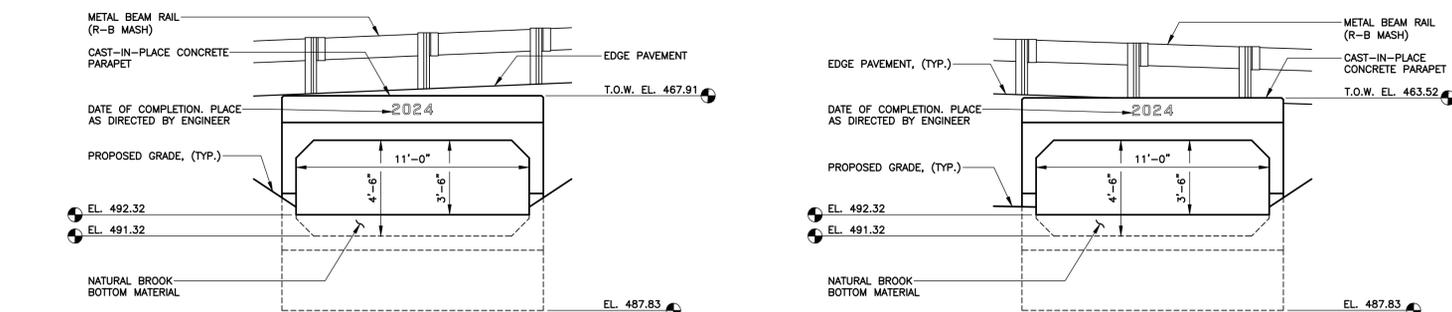


**SECTION ALONG CULVERT CENTERLINE**

SCALE: 1/4"=1'-0"

NOTES:

- WEEPHOLES NOT SHOWN.

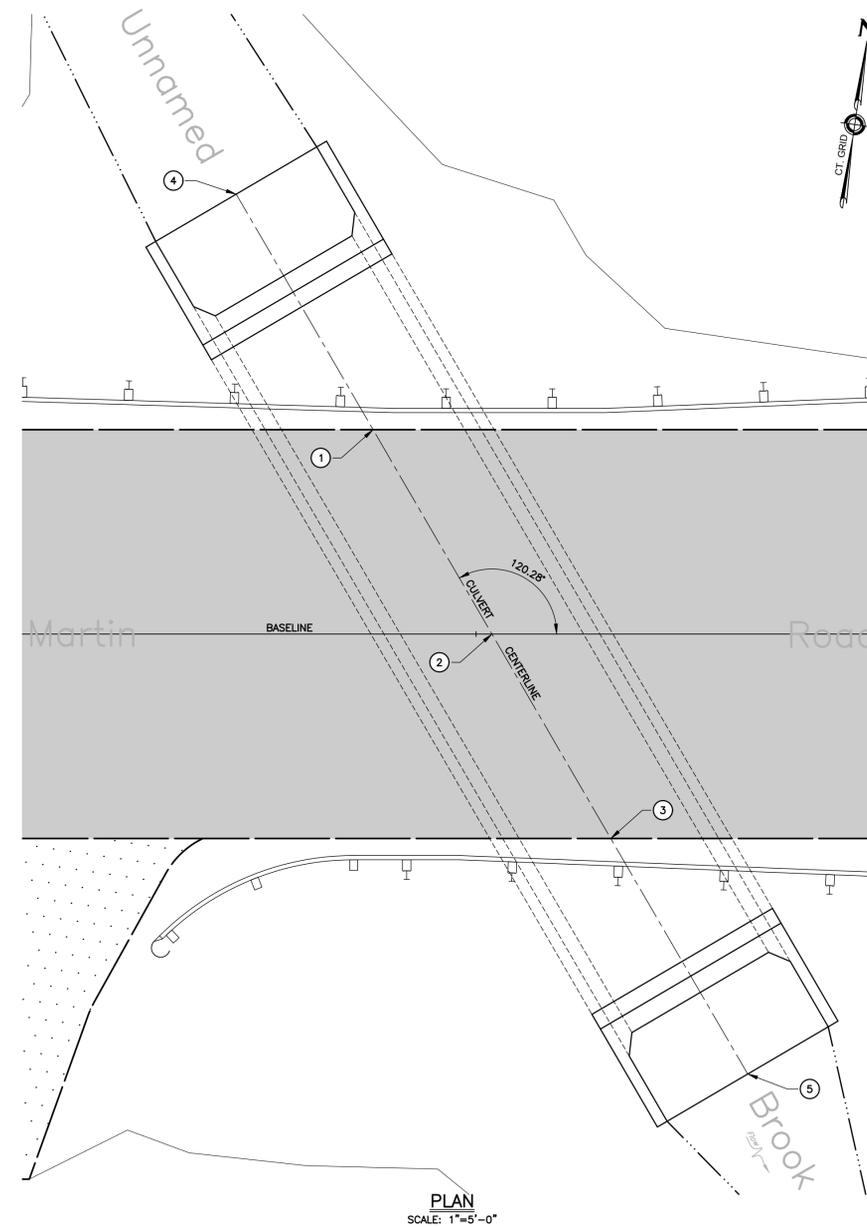


**UPSTREAM ELEVATION**

SCALE: 1/4"=1'-0"

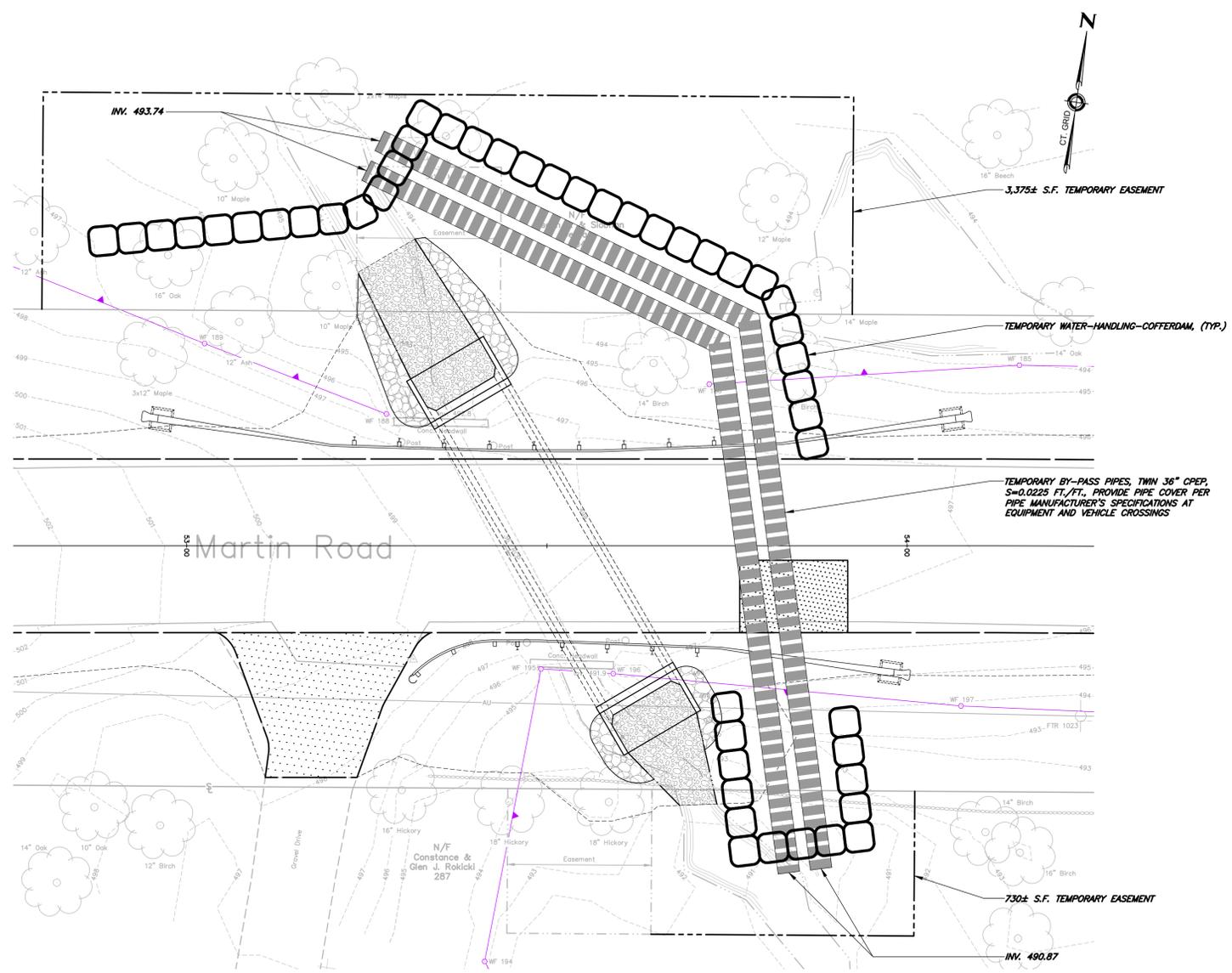
**DOWNSTREAM ELEVATION**

SCALE: 1/4"=1'-0"



**PLAN**

SCALE: 1"=5'-0"

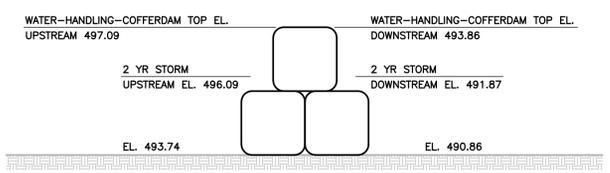


**COFFERDAM NOTES:**

1. THE LAYOUT OF WATER-HANDLING-COFFERDAMS SHOWN ON THIS DRAWING IS FOR ILLUSTRATION ONLY. ACTUAL LAYOUT CONFIGURATION FOR INSTALLATION SHALL BE SELECTED AND DESIGNED BY THE CONTRACTOR TO CONFORM TO THE CONTRACTOR'S PROPOSED CONSTRUCTIONS MEANS, METHODS, TECHNIQUES, SEQUENCES AND SITE SAFETY.
2. THE CONTRACTOR SHALL DESIGN AND PROVIDE WATER-HANDLING-COFFERDAMS TO DEWATER THE WORK AREA AND CONVEY FLOWS THROUGH THE CONSTRUCTION SITE IN A CONTROLLED MANNER, FOR NOT LESS THAN THE TEMPORARY DESIGN STORM FREQUENCY, DISCHARGE, AND WATER SURFACE ELEVATION SHOWN IN THE TEMPORARY HYDRAULIC DATA BELOW.
3. AT LEAST 30 DAYS PRIOR TO CONSTRUCTING OR INSTALLING COFFERDAM(S), THE CONTRACTOR SHALL SUBMIT DETAILED COFFERDAM PLANS AND COMPUTATIONS TO THE ENGINEER FOR REVIEW AND COMMENT. THE FURNISHING OF SUCH PLANS AND METHODS AND THE REVIEW COMMENTS OR LACK THEREOF BY THE ENGINEER ON SAID INFORMATION, SHALL NOT SERVE TO RELIEVE THE CONTRACTOR OF ITS SOLE RESPONSIBILITY FOR THE SAFETY OF THE WORK, SUCCESS OF THE COFFERDAM(S), AND THE SUCCESSFUL COMPLETION OF THE PROJECT.
4. TAKE MEASURES DURING DEWATERING OPERATIONS TO PREVENT THE DISCHARGE OF DISCOLORED WATER. THE DETERMINATION OF THE TERM 'DISCOLORED' SHALL BE AS DETERMINED BY THE ENGINEER.

**TEMPORARY HYDRAULIC DATA**

2-YEAR FREQUENCY DISCHARGE	65 cfs
TEMPORARY DESIGN DISCHARGE	65 cfs
TEMPORARY DESIGN FREQUENCY	2+ YEAR
TEMPORARY WATER SURFACE ELEVATION UPSTREAM	496.09 ft
TEMPORARY WATER SURFACE ELEVATION DOWNSTREAM	491.87 ft



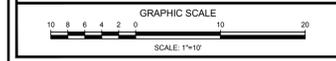
**TEMPORARY WATER-HANDLING-COFFERDAM**

**NOTES:**

1. COFFERDAM MATERIAL, DESIGN AND CONFIGURATION SHALL BE SELECTED BY CONTRACTOR. SAND BAG SIZE, NUMBER AND ORIENTATION ARE SHOWN FOR ILLUSTRATION ONLY.

- NOTES:**
1. SEE GENERAL NOTES, SHEET C0.1.
  2. SEE CULVERT 2 TEMPORARY CONSTRUCTION ROAD CLOSURE PLAN, SHEET C0.00 FOR TEMPORARY TRAFFIC CONTROL MEASURES TO CLOSE ROAD.

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TOWN OF  
HEBRON, CONNECTICUT

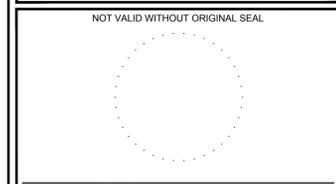
MARTIN ROAD  
IMPROVEMENTS

CULVERT 2 TEMPORARY  
STORMWATER BYPASS  
PLAN

INLAND WETLANDS  
PERMITTING

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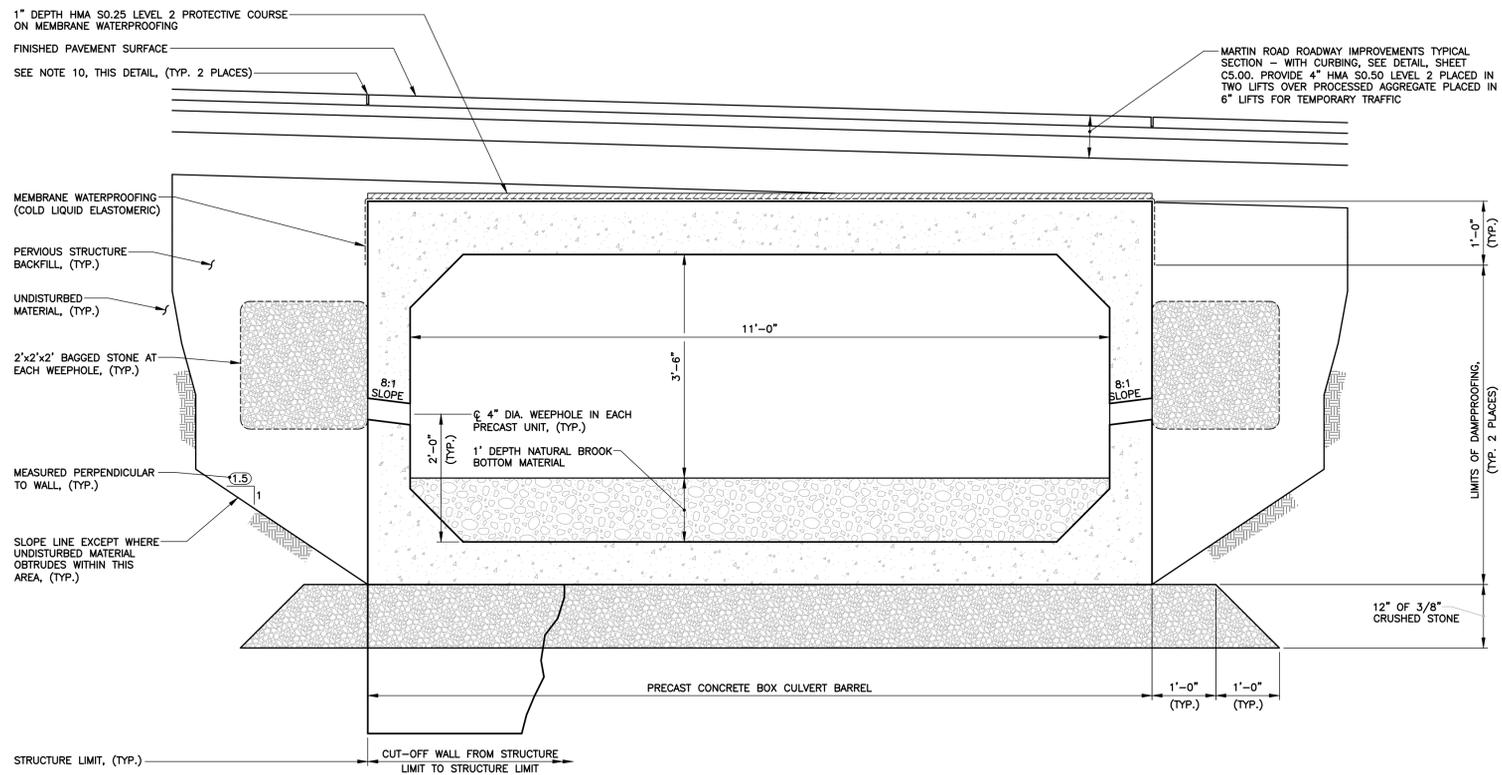


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No.	DESCRIPTION	DATE

DATE:	NOVEMBER 2024	SHEET No.:	C8.02
SCALE:	1"=10'		
PROJECT No.:	06480093		
CADD FILE:	06480093CLV		
DESIGNED:	ALM		
DRAWN:	AJG		
CHECKED:	-		

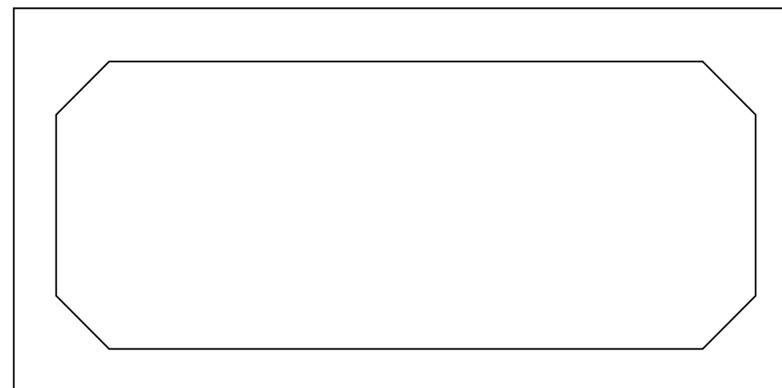


**TYPICAL SECTION LOOKING UPSTREAM  
PRECAST CONCRETE BOX CULVERT**

SCALE: 3/4"=1'-0"

**NOTES:**

1. REFER TO SPECIFICATIONS FOR CONCRETE MATERIAL REQUIREMENTS.
2. ALL REINFORCEMENT IN THE CULVERT BARREL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. SEE SPECIFICATIONS.
3. COORDINATE PARAPET CONNECTION TO BARREL ROOF DETAIL.
4. DETERMINE LENGTH OF EACH BARREL SEGMENT PRIOR TO MANUFACTURE.
5. PROVIDE A KEYED JOINT BETWEEN ADJACENT SECTIONS OF CULVERT BARREL CONTAINING A CONTINUOUS GASKET TO MAINTAIN A WATERTIGHT AND FLEXIBLE JOINT. SEE SPECIFICATIONS.
6. MAXIMUM ALLOWABLE DESIGN FOUNDATION PRESSURE = 4,000 psf.
7. IF UNSTABLE MATERIAL IS ENCOUNTERED, IT SHALL BE EXCAVATED TO A DEPTH AS DETERMINED BY THE ENGINEER AND REPLACED WITH MATERIALS DETERMINED BY THE ENGINEER.
8. COORDINATE LIFTING AND SETTING DETAILS.
9. BACKFILL ON SIDES OF BARREL SHALL BE PLACED SIMULTANEOUSLY WITH NO MORE THEN 1' ELEVATION DIFFERENTIAL AT ANY TIME.
10. CUT OVERLAY AT STRUCTURE LIMIT WITH A 3/8"x1 3/4" DEEP KERF CUT AND FILL WITH POURABLE BITUMINOUS SEALANT.



**TYPICAL SECTION  
PRECAST CONCRETE BOX CULVERT BARREL REINFORCEMENT**

SCALE: 3/4"=1'-0"

**NOTES:**  
1. SEE GENERAL NOTES, SHEET C0.1.

THIS DRAWING IS INTENDED TO BE USED FOR INFORMATION AND REVIEW PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION.



**TOWN OF  
HEBRON, CONNECTICUT**

**MARTIN ROAD  
IMPROVEMENTS**

**CULVERT 2  
CULVERT DETAILS**

**INLAND WETLANDS  
PERMITTING**

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**Nathan L. Jacobson & Associates, Inc.**  
88 Main Street P.O. Box 337  
Chester, Connecticut 06412-0337  
Tel: (860) 526-9591 Fax: (860) 526-5416  
www.nlja.com  
Consulting Civil and Environmental Engineers Since 1972

NOT VALID WITHOUT ORIGINAL SEAL

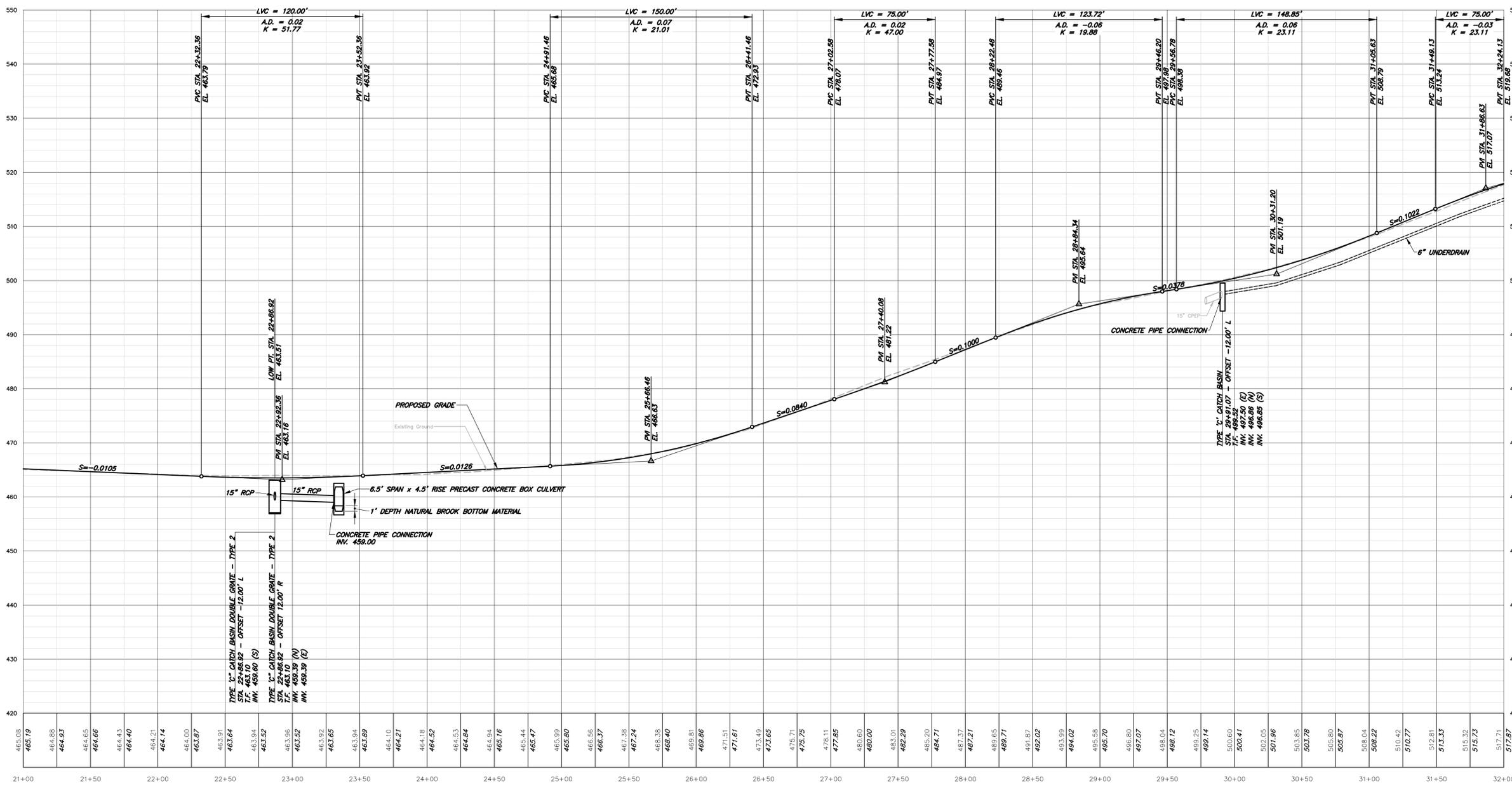
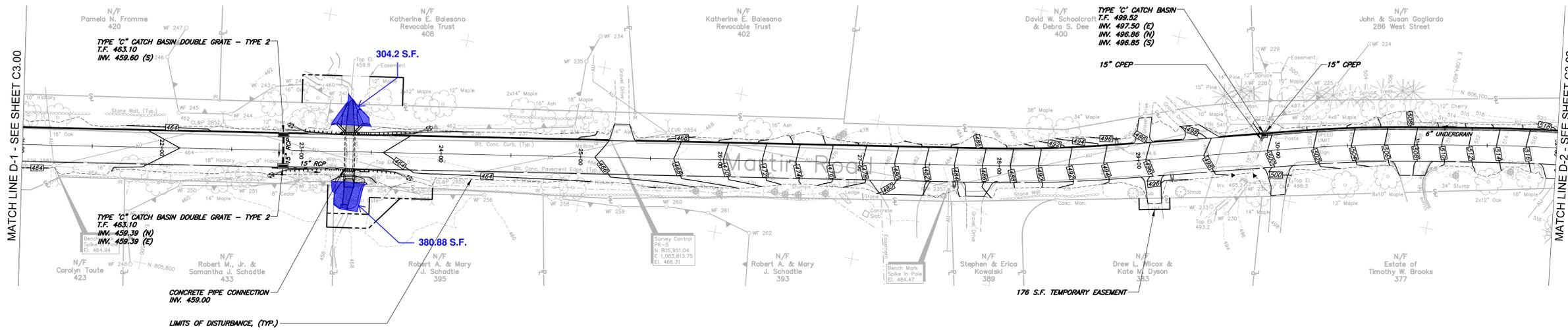
AARON L. MORTENSEN, P.E.  
CT REGISTRATION No. 27169

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REVISIONS		
No.	DESCRIPTION	DATE

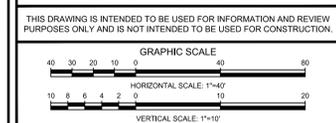
DATE: NOVEMBER 2024  
SCALE: 3/4"=1'-0"  
PROJECT No.: 06480093  
CADD FILE: 06480093CLV  
DESIGNED: ALM  
DRAWN: AJG  
CHECKED: -

SHEET No.:  
**C8.03**



**NOTES:**

- SEE GENERAL NOTES, SHEET C0.1.
- STORM DRAINAGE STRUCTURES AND PIPE SHALL BE PAID UNDER THE SPECIFIC ITEM WITH THE CLASSIFICATION OF "10" DEEP" UNLESS SPECIFIED OTHERWISE.



TOWN OF  
HEBRON, CONNECTICUT

MARTIN ROAD  
IMPROVEMENTS

GRADING PLAN  
AND PROFILE  
STA. 21+00.00 TO STA. 32+00.00

90% FINAL DESIGN

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NOT VALID WITHOUT ORIGINAL SEAL

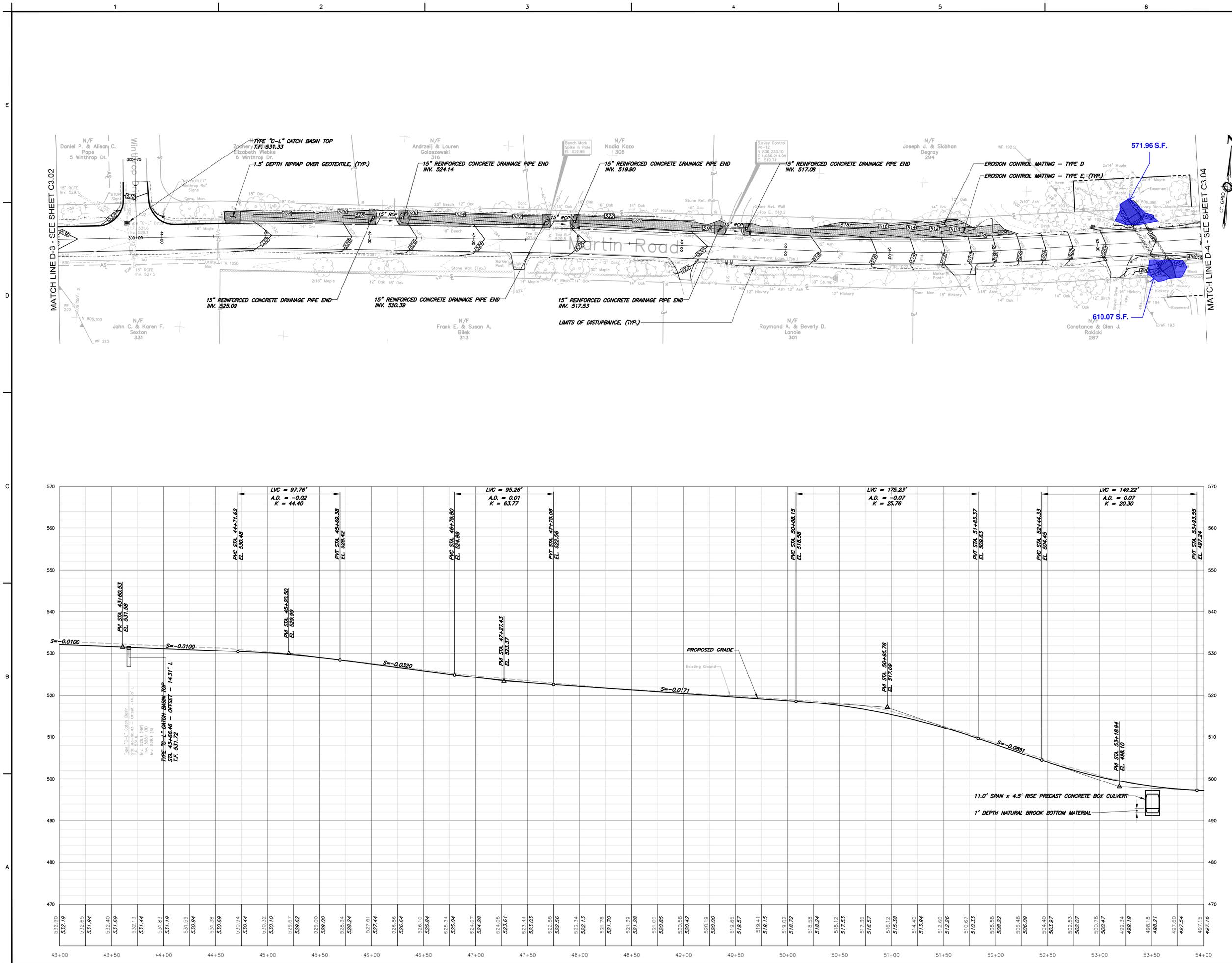
AARON L. MORTENSEN, P.E.  
CT REGISTRATION No. 27169

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REVISIONS		
No.	DESCRIPTION	DATE

DATE: JUNE 2024  
SCALE: 1"=40' H 1"=10' V  
PROJECT No.: 0640093PP  
CADD FILE: 0640093PP  
DESIGNED: ALM  
DRAWN: AJG  
CHECKED: -

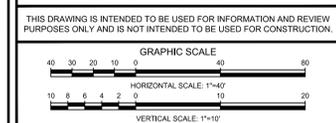
SHEET No.:  
**C3.01**



**NOTES:**

- SEE GENERAL NOTES, SHEET C0.1.
- STORM DRAINAGE STRUCTURES AND PIPE SHALL BE PAID UNDER THE SPECIFIC ITEM WITH THE CLASSIFICATION OF "V" - 10" DEEP" UNLESS SPECIFIED OTHERWISE.

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TOWN OF  
HEBRON, CONNECTICUT

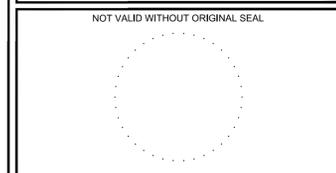
MARTIN ROAD  
IMPROVEMENTS

GRADING PLAN  
AND PROFILE  
STA. 43+00.00 TO STA. 54+00.00

90% FINAL DESIGN

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REVISIONS		
No.	DESCRIPTION	DATE

DATE: JUNE 2024  
 SCALE: 1"=40H 1"=10V  
 PROJECT No.: 06480093  
 CADD FILE: 06480093PP  
 DESIGNED: ALM  
 DRAWN: AJG  
 CHECKED: -

SHEET No.:  
**C3.03**



## James Cordier

---

**From:** Gmail <james.p.cordier@gmail.com>  
**Sent:** Thursday, November 7, 2024 11:04 AM  
**To:** James Cordier  
**Subject:** Grayville Bridge

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## James Cordier

---

**From:** Gmail <james.p.cordier@gmail.com>  
**Sent:** Thursday, November 7, 2024 11:11 AM  
**To:** James Cordier  
**Subject:** Pendleton Bridge

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.







**CONSERVATION COMMISSION**  
**SCHEDULE OF MEETINGS**  
**2025**

January 9, 2025

February 13, 2025

March 13, 2025

April 10, 2025

May 8, 2025

June 12, 2025

July 10, 2025

August 14, 2025

September 18, 2025

October 9, 2025

November 13, 2025

December 11, 2025

January 8, 2026

**Note: “Unless otherwise noticed, the Conservation Commission will hold their meetings on the 2<sup>nd</sup> Thursday of each month at 7:30 P.M. in the Selectmen’s Meeting Room in the Hebron Town Hall, 15 Gilead Street, Hebron, CT, or remotely, using a virtual meeting platform. Interested participants may join a virtual meeting using a link included in the Commission’s Meeting Agenda.”**

## **Conservation Commission and Inland Wetlands Commission**

### **Annual Report FY 2023-2024**

**MISSION:** The Conservation and Inland Wetlands Commission is committed to the preservation of Hebron's wildlife, natural resources, historical assets, and agrarian community charm.

The sparkling streams, clean groundwater, scenic vistas, fields, forests, and the peaceful rural aura of our Town did not happen by chance. These attributes are a legacy of forebears that practiced conscientious land stewardship. They were thoughtful planners and doers committed to a balance between conservation and modest community development.

Since Hebron's major roles and values to the State of Connecticut are those of agriculture, recreation, preserved ecosystems and residential housing, the community has historically sought to preserve its farmlands, woodlands, wetlands and open spaces through careful development, active conservation and a robust land acquisition program that will benefit all of Connecticut's future generations. The Conservation and Inland Wetlands Commission plays a critical part in these concerted efforts.

The Inland Wetlands and Watercourse regulations of the State of Connecticut (CGS Section 22a-36 through 22a-45) and the Town of Hebron establish the intent and the charge of the Town of Hebron Conservation Commission with the protection, preservation, maintenance and use of inland wetlands, watercourses, aquifers, and upland review areas.

The Town's Inland Wetlands Regulations can be reviewed on the Town Website at [https://hebronct.com/uploads/2014/03/iwregs\\_10-13-05.pdf](https://hebronct.com/uploads/2014/03/iwregs_10-13-05.pdf)

Other roles served by the commission, such as undeveloped area indexing, natural resources inventories, greenway designations, land use suggestions, water supply management, and public information and outreach can be referenced under CGS 7-131a.

Functionally, wetlands are above-ground manifestations of the water table. They protect and recharge our aquifers. We would note that all Hebron residents are entirely reliant upon underground water for their drinking supplies. Other inherent values of wetlands and preserved, vegetated upland areas include pollution filtration; water quality, water quantity and watercourse maintenance; flood mitigation; erosion control; the provision of integral plant and wildlife habitat; carbon storage and atmospheric nitrogen and oxygen balance; rural aesthetics and recreational opportunities. The preservation of natural areas and their functioning ecosystems is central to addressing and solving both the current climate and biodiversity crises.

Many wetlands and water courses have been destroyed by reason of the deposition, filling or removal of material, the diversion or obstruction of water flow, or the illegal erection of structures. State and local law require that a permit be issued prior to commencing any activity within a certain distance of a wetland, water body or water course. In most towns that distance is within one hundred feet, although it may be within three hundred feet from Hebron's major swamps and marshes, two hundred feet from the high-water mark of most of Hebron's streams or within one hundred feet of the wetlands associated with these streams.

Common property owner activities that come under the purview of the foregoing laws include:

- filling swampy areas
- extending lawn or parking area
- clearcutting significant vegetation within the aforesaid 100-foot buffer
- brush and fill disposal into a wetland
- septic discharge
- the discharge of "greywater" (water used for cleaning purposes)
- disposal of hazardous material such as oil, gasoline, paint, or cleaning solvents
- swimming pool discharge
- driveway expansion or home improvement construction

Some of these activities are prohibited while others are allowable if certain preconstruction safeguards are employed. Therefore, a Town permit is required.

The Conservation, Parks and Recreation, Planning and Zoning and Historic Properties Commissions and the Open Space Land Acquisition Committee, with the dedicated Town staff that assists them, work in league to ensure that Hebron's heritage of "timeless beauty," our historical assets and our critical natural resources are passed on to future generations.

The following commentary highlights the activities of the Conservation and Inland Wetlands Commission during local fiscal year 2023 – 2024:

- Held 8 Regular meetings, 1 Special meeting and 2 Public Hearings.
- Accepted and acted upon five applications.
- Provided active representation to the Hebron Open Space Land Acquisition Committee.
- Members of the Commission advised and coordinated with local volunteer groups and town residents toward the identification and mapping of hiking trails and distinctive features of Open Space parcels in Hebron. They also facilitated the establishment of a trail ranger group to assist the Parks and Recreation Department with the maintenance of trails on Town conservation lands.

- Assisted the Parks and Recreation Department with their update of the Parks and Open Space Regulations.
- Conducted outreach activities with a booth at the Hebron Maple Fest event and Hebron Day.
- Drafted and contributed several public information articles to the Hebron Views magazine, the Rivereast News Bulletin, and other media channels to elevate awareness toward the care, maintenance and enjoyment of our natural resources and passive recreational and environmental treasures. Public Education brochures were dispensed at various events and venues, including information on Jumping Worms, Invasive Plants, Farmland Preservation and Open Space Conservation, Town Trail Maps for hikers, and a Backyard Water Resources (Stewardship) Guide, encompassing lawn care, septic system maintenance, hazardous household products, drainage, and stormwater runoff.
- The Commission has also synergized its efforts with DEEP, the Connecticut Resources Conservation and Development agency (CT RC&D), the Connecticut Agricultural Experiment Station, other municipal agencies and NGOs, including the Connecticut River Coastal Conservation District, the CT Association of Wetlands Scientists, the Hebron Open Space and Land Acquisition Committee, the Hebron Parks and Recreation Department, the Hebron Pollinator Pathways organization, the Hebron Green Committee, Joshua's Trust and the Salmon River Watershed Partnership.

If you have any questions or need guidance related to work in or near wetland areas, please feel free to contact the Conservation Commission through Conservation and Inland Wetlands Agent Jim Cordier at 860-228-5971, extension 139.

October 4, 2024

**VIA UPS OVERNIGHT**

Lori Granato  
Finance Director  
Town of Hebron  
15 Gilead Street  
Hebron, CT 06248

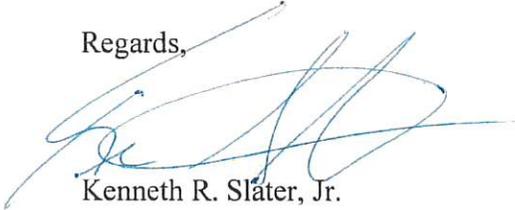
Re: Ralph & Lynn Laguardia – 25 Mai Road, Hebron  
Our File No. 22454.0001

Dear Lori:

Please find attached our check in the amount of \$10,000 made payable to the Town of Hebron. This check represents a settlement between the Laguardias and the Town of Hebron regarding their violation of a conservation easement in favor of the Town.

If you have any questions, please do not hesitate to contact me.

Regards,

  
Kenneth R. Slater, Jr.

Enclosure

cc: James Cordier

9351530

*wetlands  
agent*

Halloran Sage

TOWN OF HEBRON

000086301

DATE	INVOICE NUMBER	MEMO	BALANCE
10/04/2024	&INV	22454-000-1	10,000.00
		SETTLEMENT	
		<i>Fines-Fees-</i>	
CHECK DATE	CHECK NUMBER	TOTAL	
10/04/2024	000086301	10,000.00	

THE FACE OF THIS DOCUMENT HAS A COLORED BACKGROUND ON WHITE PAPER



**HALLORAN  
SAGE**

225 Asylum Street  
Hartford, CT 06103

Client Fund  
Account

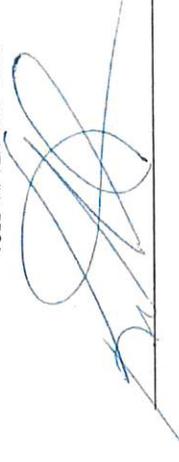
Webster Bank  
New Haven, CT  
51-7010/2111

000086301

**PAY**    *Ten Thousand and No/100 Dollars*

**NUMBER**    000086301    **DATE**    10/04/2024    **AMOUNT**    \*\*\*\*\*10,000.00

VOID AFTER 180 DAYS

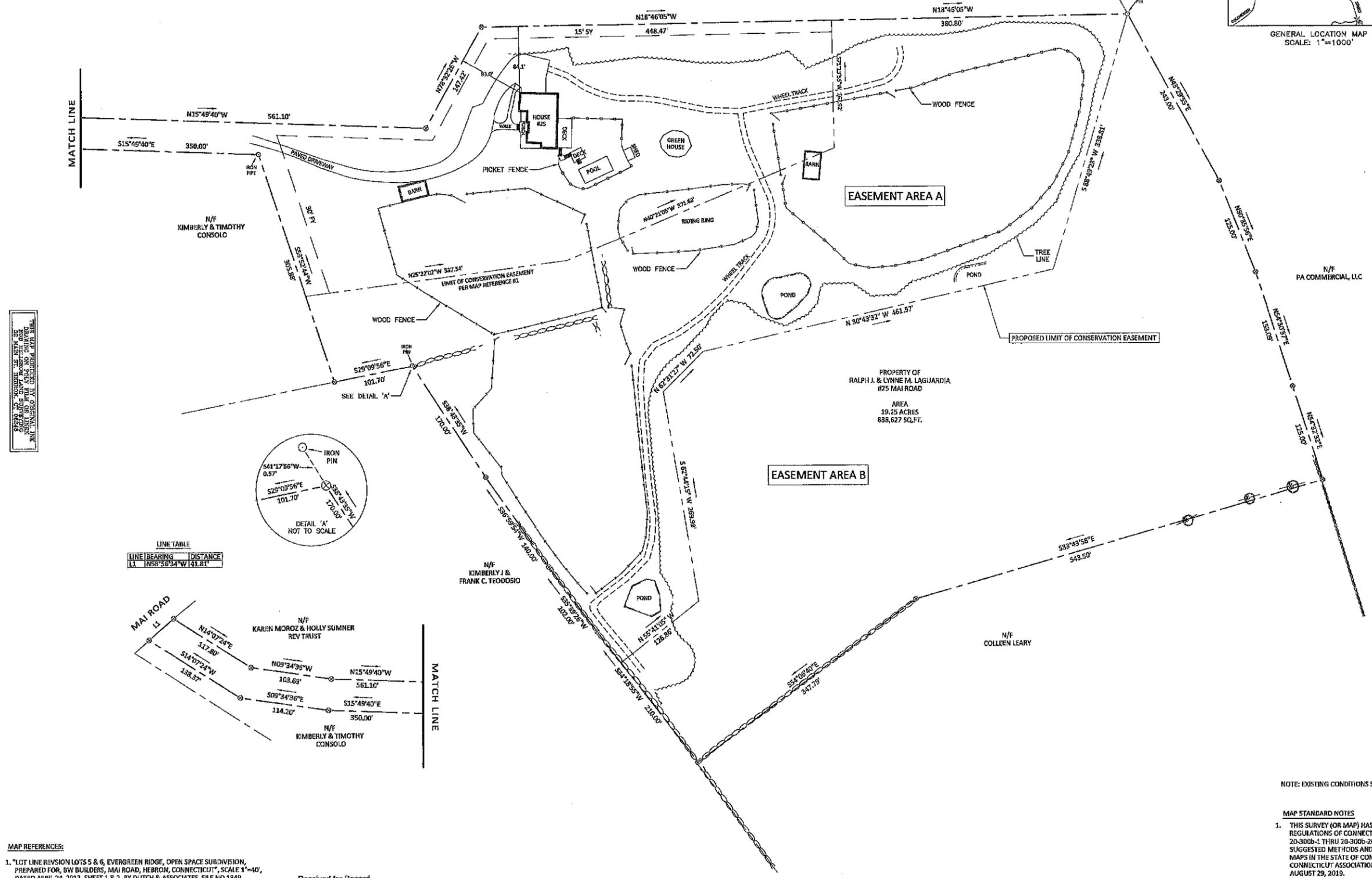


**TO THE ORDER OF**    **TOWN OF HEBRON**  
 15 GILEAD STREET (ROUTE 85)  
 HEBRON, CT 06248

⑈000086301 ⑆211170101⑆ 0008897154⑈

**LEGEND**

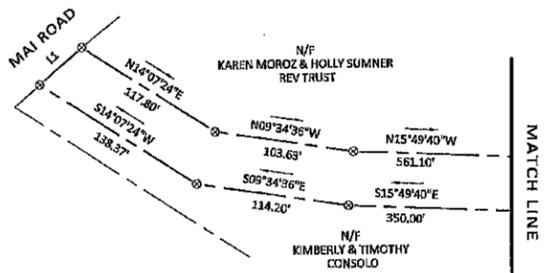
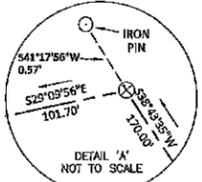
- PROPERTY LINE
- - - SET BACK LINE: PER MAP REF.#1
- ⊗ STONE WALL
- ⊙ ANGLE POINT
- ⊙ IRON PIN OR PIPE FOUND
- ⊙ TREE W/ WIRE



SEE DETAIL 'A' FOR CONSERVATION EASEMENT LIMITS AND IRON PIN LOCATION. THIS DETAIL IS NOT TO SCALE.

**LINE TABLE**

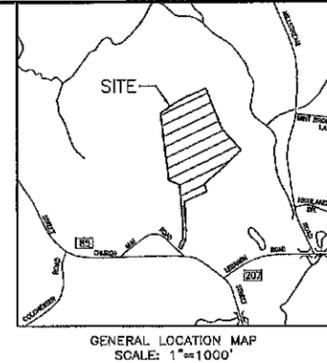
LINE	BEARING	DISTANCE
L1	N88°56'34"W	41.81'



- MAP REFERENCES:**
- "LOT LINE REVISION LOTS 5 & 6, EVERGREEN RIDGE, OPEN SPACE SUBDIVISION, PREPARED FOR, BW BUILDERS, MAI ROAD, HEBRON, CONNECTICUT", SCALE 1"=40', DATED APRIL 24, 2012, SHEET 1 & 2, BY DUTCH & ASSOCIATES, FILE NO.1849
  - "RECORD SUBDIVISION MAP, EVERGREEN RIDGE, OPEN SPACE SUBDIVISION, PREPARED FOR, MANUEL DECARVALHO, HEBRON, CONN.", SCALE 1"=40', BY MESSON & HEAGLE CIVIL ENGINEERS AND SURVEYORS, VOLUME 27, PAGE 23D

Received for Record  
Hebron Town Clerk  
09/11/2024 08:37:05 AM  
1 Pages

Received for Record Hebron Town Clerk 9/11/2024 @ 8:37:05 am



**ROB HELLSTROM  
LAND SURVEYING LLC**  
32 MAIN STREET  
HEBRON, CONNECTICUT  
(860) 228-9853

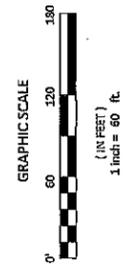
Mailing Address:  
P.O. BOX 378  
HEBRON, CT 06248  
www.rhellst.com  
Email: rob@robhellstromsurveying.com



ALL SURVEY REVISIONS  
AND REVISIONS SHALL BE  
MADE TO THIS DRAWING  
WITHOUT THE SIGNATURE AND  
SEAL OF THE SURVEYOR.  
TO MY KNOWLEDGE AND BELIEF, THIS MAP IS  
SUBSTANTIALLY CORRECT AS NOTED HEREON.

THIS DRAWING IS NOT VALID UNLESS IT BEARS  
AN ORIGINAL INK SIGNATURE AND ENCLOSED SEAL

ROBERT W. HELLSTROM, L.S. #13626



NOTE: EXISTING CONDITIONS SHOWN AS OF 11-18-22

- MAP STANDARD NOTES**
- THIS SURVEY (OR MAP) HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THRU 20-300b-20 AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUGUST 29, 2019.
- TYPE OF SURVEY: IMPROVEMENT LOCATION SURVEY  
BOUNDARY DETERMINATION CATEGORY: DEPENDENT RESURVEY  
HORIZONTAL ACCURACY CLASS: A-2

EASEMENT MAP  
- PREPARED FOR -  
RALPH LA GUARDIA

25 MAI ROAD

HEBRON CONNECTICUT

HEBRON

1 OF 1

BY: MAR

SCALE: 1"=60'

JOB NO.: 2022-294

FILE NO.: 22-294\_25\_MAI\_RD.

DATE: MAY 8, 2023

**LEGAL NOTICE OF ACTIONS  
HEBRON CONSERVATION COMMISSION  
15 GILEAD STREET, HEBRON CT**

At its October 10, 2024, meeting, the Hebron Conservation Commission took the following actions:

**Petition 2024-7 – 66 Wall Street, Veterans Memorial Park, Town of Hebron,** Installation of a Concrete Foundation for an Athletic Field Light Pole in the Upland Review Area – **affirmed**, Agent Approval, Pursuant to the Authority Granted by Sections 12.1 and 12.2 of the Hebron Inland Wetlands and Watercourse Regulations

**Petition 2024-8 – 150 East Street, Peters House Grounds at Burnt Hill Park, Town of Hebron,** Construction of a of a 26' x 36' Shed in the Upland Review Area – **affirmed**, Agent Approval, Pursuant to the Authority Granted by Sections 12.1 and 12.2 of the Hebron Inland Wetlands and Watercourse Regulations

James P. Cordier, Conservation and Inland Wetlands Agent  
For: Thomas Loto, Chairman, Conservation and Inland Wetlands Commission

## HEBRON'S HIDDEN LINEAR PARKS

Hebron has hidden places of respite that are de facto linear parks. They are unimproved roads, or rights-of-way, that the Town owns, and they are accessible to the public for passive recreation and enjoyment. Given the precaution of periodically irregular terrain, the roads are navigable for walkers and sometimes bike passage because of pedestrian footfall. If you seek solace and the healing properties of a brisk walk through beautiful places, but lack an abundance of time, these country roads offer a condensed but invigorating encounter with nature while still being close to home. The first of these tours is located at the School House Road connector.

Start your visit from the north side of the unimproved road, off the junction of Burrows Hill Road and the paved part of School House Road. Here, the main historical attraction is the Burrows Hill School House, kept in a remarkable state of preservation. It serves as an attractive portal into life in the eighteenth and nineteenth centuries. There are approximately five parking spaces off the road on the side lawn of the property, and you can begin your hike about one hundred feet down the road where the pavement ends.

From the north trailhead heading south there is an ancient, packed dirt farm road, bordered by well-weathered stone walls. For the first one-third of the way, there is a gradual but lengthy descent over a cobbled and gullied roadway, until the road flattens out for the remainder of the trip.

For three seasons, prehistoric-looking, dark green ferns line the walkway for its entire length. This road is carved into a hillside, about half-way down the slope and parallel to the ridgeline above. The views are wonderful, both up and down. On the walk, one can enjoy both ridgeline and lowland forest scenery at once. There are wetlands to the east, teeming with wildlife, if you are willing to watch and listen carefully. There is also a meadow toward the southern end of the road, where deer feed near the edges at twilight. In late fall, the decaying foliage on the forest floor has the scent of cider and a golden tunnel of oaks embraces the ambling visitor. For the hardy adventurer, this scenic lane is also a good place to enjoy the silence and the solitude of a snowy winter's day. There is a quiet majesty about this land that is memorable, not just for one feature, but for the general sense of peace it invokes.

Well-supported shoes or hiking boots are the order of the day. The journey, however brief, is best suited for moderately fit adults and older children. The trek is about a half mile long (each way) and can take 40 to 60 minutes to complete (depending on speed and stops), with the return trip being uphill and a bit exerting for approximately 250 yards. If you are ambitious and have more time, walk down Hope Valley Road from the southern trailhead. About one thousand feet to the south there is a bend in the paved road and an entry point to a beautiful network of trails through an expansive tract of the Salmon River State Forest. It is laced with more ridges and hillsides, deciduous forests, hemlocks, pine stands, stone walls, and sparkling streams.

There are other fast-track getaways to be explored in town, including the unimproved connector road between Hall Road and Old Hall Road, with its two loop trails, hillside overlooks of the Warner Pond/West Branch Fawn Brook Marshlands and upland woodland conservation lands.

Enjoy the treasures, traditions, and history of this beautiful community. They define Hebron, they are your legacy, and you have earned them through your continued support of our land preservation efforts!

Written in the memory of my dear friend and Hebron's daughter, Marge Dill – naturalist, hiker, world traveler, professor, humanitarian, and reporter for the River East News.

Jim Cordier

Conservation and Inland Wetlands Agent

Town of Hebron

## James Cordier

---

**From:** Gmail <james.p.cordier@gmail.com>  
**Sent:** Wednesday, October 30, 2024 3:39 PM  
**To:** James Cordier  
**Subject:** Schoolhouse Road

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



## James Cordier

---

**From:** Gmail <james.p.cordier@gmail.com>  
**Sent:** Friday, November 1, 2024 11:50 AM  
**To:** James Cordier  
**Subject:** Burrows Hill Schoolhouse

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

