

STATE OF CONNECTICUT – COUNTY OF TOLLAND INCORPORATED 1786

TOWN OF ELLINGTON

55 MAIN STREET – PO BOX 187 ELLINGTON, CONNECTICUT 06029-0187 www.ellington-ct.gov

TEL. (860) 870-3120 TOWN PLANNER'S OFFICE FAX (860) 870-3122

INLAND WETLANDS AGENCY REGULAR MEETING AGENDA MONDAY, APRIL 11, 2022, 7:00 P.M.

IN-PERSON ATTENDANCE: TOWN HALL ANNEX, 57 MAIN STREET, ELLINGTON, CT REMOTE ATTENDANCE: VIA ZOOM MEETING, INSTRUCTIONS PROVIDED BELOW

- I. CALL TO ORDER
- II. PUBLIC COMMENTS (on non-agenda items):
- III. PUBLIC HEARING(S): (Notice requirements met, hearing may commence unless otherwise noted)
 - IW202203 Town of Ellington, owner/applicant, request for a permit to conduct regulated activity for the replacement of the Strawberry Road bridge/culvert over Abbey Brook, located 200ft from the intersection of Blueberry Circle.
 - IW202110 Juliano Family One LLC, owner/Brian Juliano, applicant, request for modification to Wetlands Permit IW202110 to construct a detention basin and outside storage area at 100 Windermere Ave., APN 018-021-0000. (Opening of hearing to be tabled to May 9, 2022)
- IV. OLD BUSINESS:
- V. NEW BUSINESS:
- VI. ADMINISTRATIVE BUSINESS:
 - 1. Approval of the March 14, 2022 Regular Meeting Minutes.
 - 2. Election of Officers.
 - 3. Correspondence/Discussion:

VII. ADJOURNMENT:

Next Regular Meeting is scheduled for May 9, 2022

Instructions to attend remotely via Zoom Meeting listed below. The agenda is posted on the Town of Ellington webpage (www.ellington-ct.gov) under Agenda & Minutes, Inland Wetlands Agency.

Join Zoom Meeting via link:

https://us06web.zoom.us/j/84054763240

Meeting ID: 840 5476 3240

Passcode: 730156

Join Zoom Meeting by phone: +1 646 558 8656 US (New York) Meeting ID: 840 5476 3240

Passcode: 730156

Town of Ellington Inland Wetlands and Watercourses Agency Application

Application # FW 202203

Date Submitted Warch 3, 2022

	oclated with this application will be sent to the applicant wise requested.	Notices associated with this application will be sent to the applicant unless otherwise requested.		
Owner's	Information	Applicant's Information (if different than owner)		
Name:	Town of Ellington - Timothy Webb	Name:		
Malling Address:	21 Main Street Lori Spielmad	Malling Address:		
	Ellington, CT 06029			
Emall:	twebb@ellington-ct.gov/LSoielmul	Email:		
	TREQUIRED BY LAW TO MAIL NOTICE BY USES, CES BE EMAILED TO YOU? YES INO	WHEN NOT REQUIRED BY LAW TO MAIL NOTICE BY USPS. MAY NOTICES BE EMAILED TO YOU? 12 Yes 12 No		
Primary Co	ntact Phone #: <u>(860) 870-3140 /860 276-3100</u>	Primary Contact Phone #:		
Secondary	Contact Phone #:	Secondary Contact Phone #:		
Owner's Signature	Date: 3-24-2013			
and accurate the applicati application is documents re above I/we e access to the	now I certily that all Information submitted with this application is true to the best of my knowledge, that I am aware of and understand on requirements and regulations, and acknowledge that the se to be considered complete only when all information and squired by the Agency have been submitted. Moreover, by signing application and the site by the Agency or its staff.			
Street Ad	dress: Strawberry Rd over Abbey Brook - B	200ft from intersection of Blueberry Circle		
Assessor	's Parcel Number (APN):	2001 From intersection of		
Proposed	d wetlands/watercourses affected in square feet	and linear feet (as applicable): $\frac{2,160 \text{ sf}}{100}$ linear ft		
1	a of wetlands/watercourses on parcel in square			
	ater: X Yes No Public Sewer: Yes X i to North Central District Health Department (Enfield Offi	No <u>If not served by public water and sewer, applicant shall make</u> ice) if required.		
Is the project in a public water supply watershed area? Yes No If YES, applicant is required to notify the Connecticut Water Company and Commissioner of Public Health by certified mail, return receipt within 7 days of this application (Conn. Gen Stat. Sec 22a-42f). Copy of application, plans, and supporting documents must accompany notice. Applicant can email the Commissioner of Public Health using their approved form. Proof of notice (return receipt and sent email) must be provided to the Planning Department.				
Describe nonregul	the nature of proposed regulated activity, requ	est for acceptance of a permitted use as of right or a er activity requiring review by the Agency or its Agent: hen preparing application		
See a	ttached Project Description			

Applicant shall provide certification in accordance with Wetlands Regulation, Section 7.4e, Application Requirements:
Whether or not any portion of the property on which the regulated activity is proposed is located within 500 feet of an adjoining town. ☐ Yes ☒ No
Whether or not a significant portion of the traffic to the completed project will use streets within an adjoining town to exit or enter the site. ☐ Yes ☒ No
Whether or not a significant portion of the sewer or water drainage from the project will flow through and significantly Impact the sewer or water drainage system of an adjoining town. \square Yes $\boxed{\mathbf{x}}$ No
Whether water run-off from the improved site will impact streets or other municipal/private property within an adjoining town. Yes No
FOR OFFICE USE ONLY If YES to any of the above, the Agency shall, in accordance with CGS 8-7d(f) notify the clerk of any adjoining municipality of the pendency of any application, petition, appeal, request or plan concerning any project on any site. Notice of the pendency of such application shall be made by certified mail, return receipt requested, and shall be mailed within seven (7) days of the date of receipt of the application, petition, appeal, request or plan. (See Agency requirements Section 8.4)
Type of Project: (check one)
Commercial/Industrial Residential Mixed UseTimberAgricultural
X Other, explain: Municipal Bridge Replacement (Federally funded)
Type of Application: (check one)
Notification for Non-Regulated Use (Section 4.2)
Notification of Permitted Use as of Right (Section 4.1)
Administrative Permit (Section 6.4)
X Agency Permit (TWELVE COPIES REQUIRED)
Permit Modification
Permit Extension
Regulation Amendment
Map Amendment
Appeal of Administrative Permit
Application Submittals:
X Completed Application Form (Section 7.4a)
X Application Fee (Section 7.4b)
X Abutters List (Section 7.4c)
X Certification as to Adjacent Towns (See above)
X Certification as to Connecticut Water Company & Commissioner of Public Health (See above)
X Notification Narrative and Supporting Documentation (If applicable, Appendix D)
X Project Narrative and Supporting Documentation (Section 7.4g, 1-11 inclusive, as deemed applicable)
X Project Site Plan - circle one: Administrative (Section 7.4h1) / Agency (Section 7.4h2)
X Supplemental Information (Section 7.5a-j, inclusive, as deemed applicable)

State Project No. 0047-0120
Replacement of Bridge No. 06141
Strawberry Road over Abbey Brook
Town of Ellington
Permit for Regulated Activities

Project Description

Bridge No. 06141, Strawberry Road over Abbey Brook, is scheduled for replacement as part of the Federal Local Bridge Program. The existing structure is a triple cell corrugated steel arch culvert, each pipe measuring 6 feet wide by 3.75 feet high, with reinforced concrete end walls. The structure has an overall length of 22 feet, measured along the channel. The bridge and approach width are 30 feet, curb-to-curb, providing for two lanes (one in each direction) of vehicular traffic. Strawberry Road is an urban local road supporting an ADT of 103 vehicles per day.

Strawberry Road is located within a residential development with lot sizes averaging approximately 3/4 - acre. The lots in the project area are developed and consist of maintained lawns and woods. Abbey Brook flows north to Somersville Pond, crossing into the town of Somers, approximately 2000 feet downstream of Bridge No. 06141. Existing drainage in the project area consists of two catch basins to the northeast of the bridge, conveying runoff from east of the site through 15-inch reinforced concrete pipes into Abbey Brook.

Based upon field investigation and engineering analysis, the existing structure is found to be in poor condition. Its poor condition is primarily due to the condition of the end treatment, though the barrels show a loss of structural integrity as well. Based on hydraulic modeling, the existing structure is hydraulically inadequate and will overtop the crossing during the 100-year design event. For these reasons, the existing bridge is proposed for replacement.

The proposed project consists of replacing the existing structure with a single span precast concrete three-sided rigid frame with concrete wingwalls and endwalls, founded on steel piles driven to bedrock. The rigid frame will be topped with a shear slab, membrane waterproofing, and bituminous wearing surface. The curb-to-curb bridge and approach width are maintained. Incidental work on the roadway includes pavement reconstruction of the east approach and west of the bridge to the intersection with Blueberry Circle. Existing drainage east of the bridge will be removed and replaced at the roadway low point, outletting into the brook over a riprap apron at the northeast embankment. The proposed construction is expected to begin in the Spring of 2023 and last approximately 6 to 8 months.

The contributing drainage area at Bridge No. 06141 is 1.1 square miles. The regulated resources at the site include State Regulated Wetlands and Watercourses and Federally Regulated Wetlands and Waters of the U.S. The project is located within FEMA mapped flood zone AE. Coordination has taken place with CT DEEP Fisheries, which has observed upstream fish passage through the existing culverts is limited by significant sedimentation. The proposed replacement will provide improved, unrestricted upstream fish passage under the bridge. Coordination with the U.S. Army Corps of Engineers (USACE) has also taken place. USACE Best Management Practices implemented with the project will include spanning 1.2 times the watercourse bank full width and installation of riparian wildlife shelves.

A detour of Strawberry Road is proposed during the removal and replacement of Bridge No. 06141. All inwater work will take place while the detour is in place. To facilitate demolition of the existing structure and construction of the replacement, construction will be performed in two stages of water handling. The



first stage will include directing flows into the eastern pipe by installation of water handling devices to block the two western pipes. During this stage, the western portion of the existing structure will be removed, including the middle and western culvert barrels, and a portion of the headwall. The proposed channel will be prepared and the substructure will be installed on the west side of the brook. Stage two construction will see flow diversion reconfigured to block flows from the eastern culvert barrel and direct it through the newly prepared channel section. The remaining pipe and existing structure will be removed and the eastern portion of the channel will be constructed. The three-sided rigid frame will be erected and wingwalls, endwalls, and riparian wildlife shelves will be installed. Incidental roadway work will be completed after removal of water handling devices. Expected construction machinery for this work will include cranes, excavators, concrete trucks, front loaders, drill rigs, roller/compactors, and paver dump trucks.

Impacts to the stream will be minimized through adherence to CTDOT Form 818, Section 1.10 Best Management Practices and the 2004 Connecticut Stormwater Quality Manual. During construction, proper water handling measures will be implemented to allow work to occur in the areas confined within those water handling devices. Sedimentation and erosion control systems will be installed as necessary to limit disturbances to protect the wetlands and watercourses through adherence to the 2002 Connecticut Erosion and Sediment Guidelines. Additional management practices will include but are not limited to the following: storage of construction materials outside of wetlands and flood-prone areas, vehicle re-fueling and servicing at a location outside of the wetlands and watercourse, proper care and maintenance of vehicles and equipment. Any unconfined instream work within Abbey Brook will be restricted to the period from June 1 to September 30, inclusive.

Total permanent and temporary impacts to regulated areas amount to 2,160 s.f. (0.050 ac). Permanent impacts to state and federal inland wetlands amount to 46 s.f. (0.001 ac). Permanent impacts below the ordinary high water line amount to 1,221 s.f. (0.028 ac). Permanent impacts to inland wetlands and watercourse result from the removal of the existing culvert and placement of natural streambed material. Temporary impacts to state and federal inland wetlands amount to 190 s.f. (0.004 ac). Temporary impacts below the ordinary high water line amount to 703 s.f. (0.016 ac). Temporary impacts to inland wetlands and watercourse are due to temporary construction areas (upstream and downstream) associated with water handling. The replacement of the existing culvert with an open bottom structure restores 0.02 acres of watercourse to natural conditions.

Total impacts to the town of Ellington regulated upland review area amount to 12,261 s.f. (0.281 ac). Upland impacts are due to installation of the new substructure, embankment grading, roadway reconstruction, and installation of drainage structures.

The proposed construction requires a property take on each of the four adjacent properties to install roadway embankment fill and stormwater drainage. A temporary construction easement will be utilized during construction for water handling and temporary utility relocations.

Rehabilitation and replacement alternatives were assessed based on criteria including, but not limited to, construction cost, life cycle cost, constructability, environmental impact, safety design standards, connectivity, economic development, and traffic capacity. A rehabilitation alternative was considered for lining the culvert pipes. This would avoid removal of the existing structure, but would increase permitting requirements. A liner would decrease the hydraulic opening, increasing backwater and roadway flooding. The increased flood elevation would require a FEMA CLOMR and USACE Pre-Construction Notification, significantly increasing the project duration for design. Additional property acquisitions would also be a

Pg 2013

concern due to the rise in base flood elevation. A no build alternative would eliminate immediate environmental impacts by maintaining the structure and channel in its current condition. However, the existing structure constricts the channel compared to natural conditions and has shown evidence of sediment aggradation over time. All viable replacement alternatives have similar environmental impacts as the proposed structure. The proposed replacement alternative was selected to minimize environmental impacts, improve stream ecology, and provide hydraulic adequacy.

The proposed clear span of 32 feet provides hydraulic adequacy, allowing the 100-year storm event to flow freely through the bridge section with a dry roadway surface. The proposed structure decreases backwater from existing conditions as much as 1.9 feet. The reduced headwater upstream from the crossing increases flow velocities, matching pre-developed conditions, and is not expected to affect downstream flow rates. For the 1% probability of exceedance event, flow velocities are increased from 3.3 fps to 6.7 fps (existing to proposed conditions), which reflects the natural conditions of the channel. More frequent events are less influenced by the alleviated backwater; for the 2-year storm, flow velocities are increased from 3.06 fps to 3.30 fps.

The proposed project will meet the requirements for U.S. Army Corps of Engineers Self-Verification General Permit 19, specifically by impacting less than 5,000 s.f. of regulated area and providing hydraulic adequacy with at least 1 foot of freeboard to the roadway low point. The project will also meet the requirements of the State Flood Management Certification for Municipal Projects. A CTDEEP Statewide Inland Wetlands & Watercourses Activity Reporting Form is included with the application for municipal use.

DEPARTMENT OF PUBLIC HEALTH

Raul Pino, M.D., M.P.H. Commissioner



Dannel P. Malloy Governor Nancy Wyman Lt. Governor

Drinking Water Section

April 20, 2017

Richard Fontaine P.E. Close, Jensen and Miller, P.C. Liaison Service 1137 Silas Deane Highway Wethersfield, CT 06109

Re:

Replacement of Strawberry Road over Abbey Brook

DPH Project #2017-0083

Dear Mr. Fontaine:

The Drinking Water Section (DWS) of the Department of Public Health has reviewed the location of the following bridge replacement project:

Project No.	Bridge No.	Town	Road	Feature Crossed	Scope
47-TBD	06414	Ellington	Strawberry Road	Abbey Brook	Replacement

Based on our review, this bridge project is not located in a public water supply source water area. Therefore, it does not appear that the above bridge project will impact public drinking water supply sources.

If you have any questions regarding this matter, please contact Rich Iozzo of this office at 860-509-7333.

Sincerely,

Patricia Bisacky

Environmental Analyst 3 Drinking Water Section

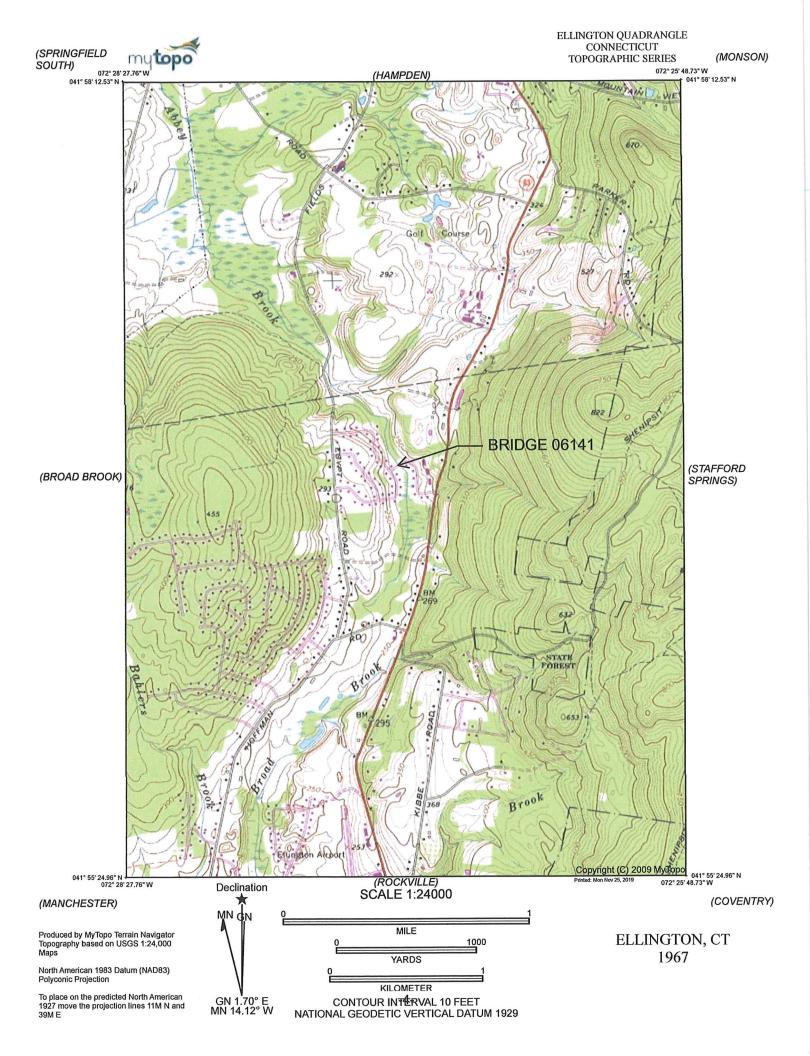
Lori Spielman, First Selectman, Town of Ellington Cc:

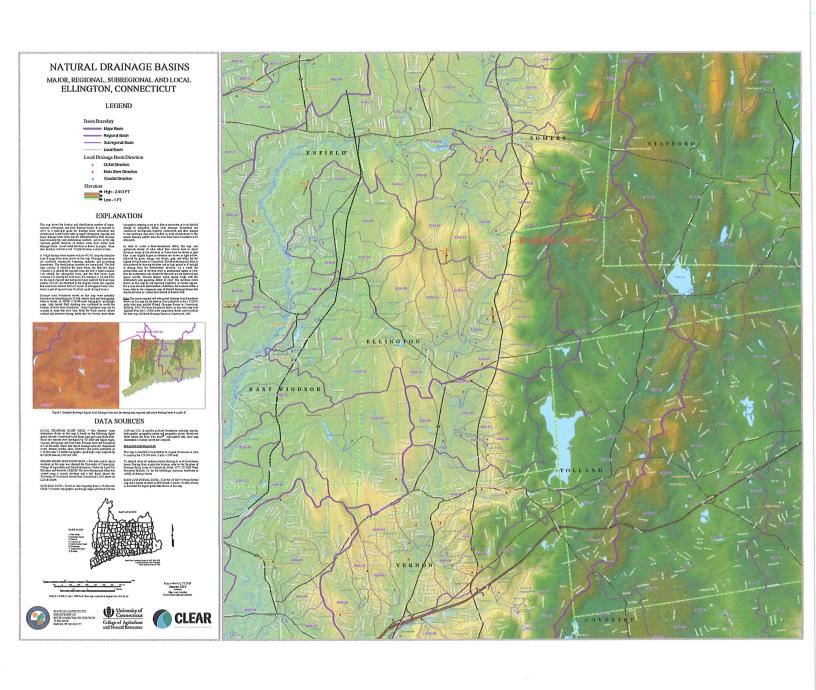




Abutters List

<u>Owner</u>	<u>Address</u>	<u>APN</u>
HERTER, BLAIRE E	23 STRAWBERRY RD, ELLINGTON, CT 06029	182-037-0000
BLACK, SCOTT	29 BLUEBERRY CIR, ELLINGTON, CT 06029	182-009-0000
WAUGH, KATHLEEN T	18 STRAWBERRY RD, ELLINGTON, CT 06029	182-008-0000
KERSWELL, SHAWN	21 STRAWBERRY RD, ELLINGTON, CT 06029	182-038-0000





Map Theme Legends

Wetlands

- Site Certified Wetlands/Watercourse
 Swamp Areas
 Poorly Drained and Very Poorly Drained Solls
 Alluvial and Floodplain Solls

CT DEEP

Aquifer Protection



Level A Aquifer Protection Area (Final Adopted)



Level B Aquifer Protection Area (Preliminary)

Water Resource Protection

Natural Resource Protection

ESTUARINE
Beadshore, B
Interlidal Marsh, IM
PALUSTRINE FORESTED

Watershed Boundary

Subregional Basin
Aquifer Protection Area
Zone 2 Preliminary Wallhead Protection Area
Zone 2 Preliminary Wallhead Protection Area

Addis-Auditor White Cedar Swamp, AANCS
Addis-RedBest-Store Beach swamp, Ack98SS
Corameural Northern Wite Cedar Swamp, CIRNWCSS
Floodplain-Forest FF
Producible Forest FF
Perchandral Spring Fern Cirist
Perchandral Spring Fern Cirist
Forenharder Aqualic FA
Modulin Fen, MF
Poor Fen FF
Forenharder Aqualic FA
Sea Leve Fen SJF
Sea Leve Fen SJF
Sea Leve Fen SJF
TERRESTIFAL FORESTED

Ory Commentaria Forest, DCF
Ory Supported Forest, DCF
Old Gowahi Forest, OCF
Subadic Cold Talus ForestWoodang, SubCTFW
TERRESTREAT MONA-PORESTED
Addic Rody Summer Outcop, ARSO
All unial Graseland/oldrop, ARSO
Countain Stroke Summer Outcop, CRSO
Countain Graseland, CBH
Countain Graseland, CBH
Countain Graseland, CBH
Countain Graseland, CBH

Coastal Woodland/Shrubland, CWS

Sand Barren, SB Summit Outcrop, SubRSO

Natural Diversity Area CT DEEP

Sewer System

Sever Customers

Commerced To Sever

Sever Manibule

Sever Not Available

Pump Station

Gover Manhole

Gover Manhole

Gover Manhole

Gover Manhole

Force Main

Gover Manhole

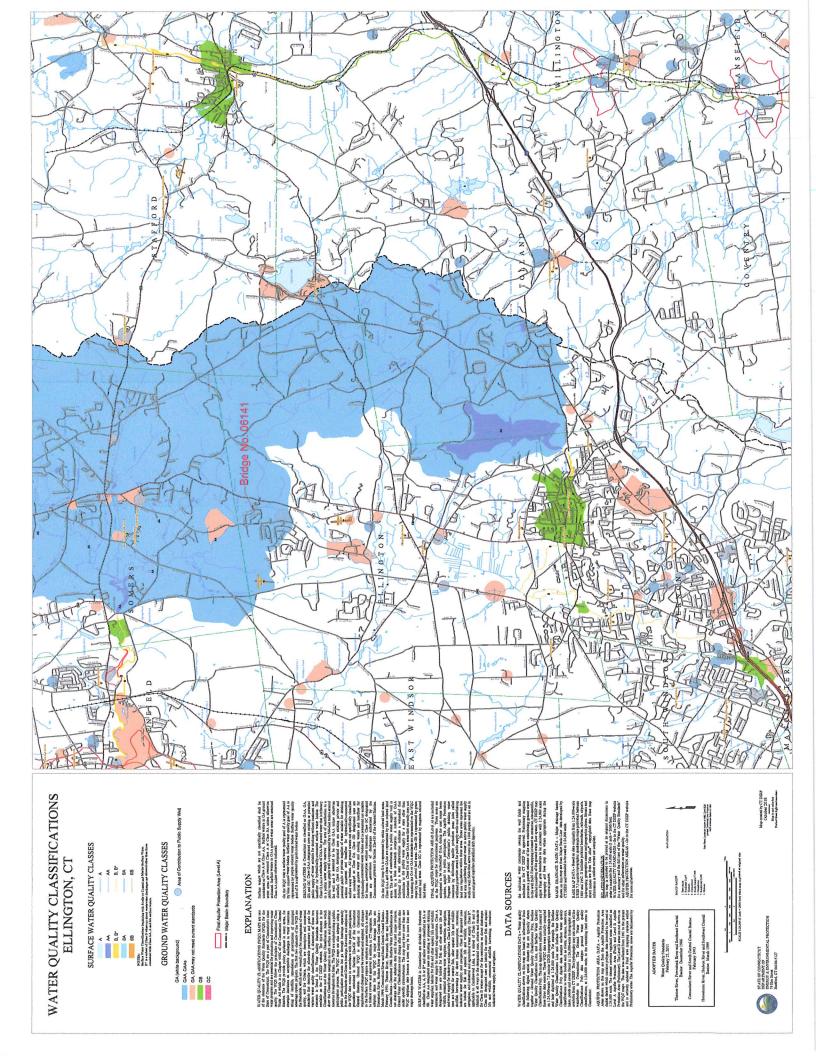
Force Main

Watersheds

Major Basin
Regional Basin
Subregional Basin
Local Basin

shenipsit Watershed

Local Drainage Basins Line

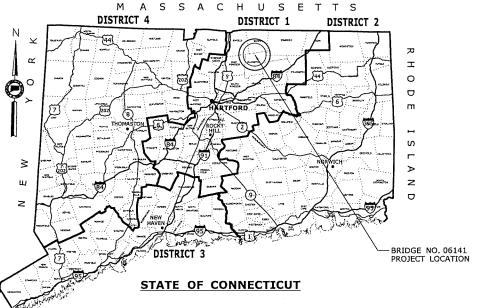


TOWN OF ELLINGTON

ENVIRONMENTAL PERMIT Plans For

REPLACEMENT OF BRIDGE NO. 06141

STRAWBERRY ROAD OVER ABBEY BROOK



GENERAL NOTES:

- 1. THESE PLANS ARE INTENDED ONLY FOR ENVIRONMENTAL PERMITTING PURPOSES, THESE PLANS HOLD AUTHORITY FOR ALL ACTIVITIES CONCERNING THE REGULATED AREA, FOR DETAILED PLANIMETRIC INFORMATION AND
- PAYMENT REFER TO THE APPLICABLE CONTRACT DOCUMENTS.

 2. THE DEPARTMENT OF TRANSPORTATION WILL ONLY SUBMIT REVISIONS TO DEEP AND USACE FOR CHANGES TO THE DESIGN THAT WILL AFFECT

- DEEP AND USACE FOR CHANGES TO THE DESIGN THAT WILL AFFECT REGULATED AREAS.

 3. FOR A DESCRIPTION OF THE WATERCOURSES, WETLANDS, AND WETLAND SOILS SEE RELEVANT SECTIONS OF THE PERMIT APPLICATION

 4. 400 FOOT GRID BASED ON CONNECTICUT COORDINATE SYSTEM N.A.D. 1983

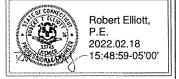
 VERTICAL DATUM BASED ON NAVD OF 1988.

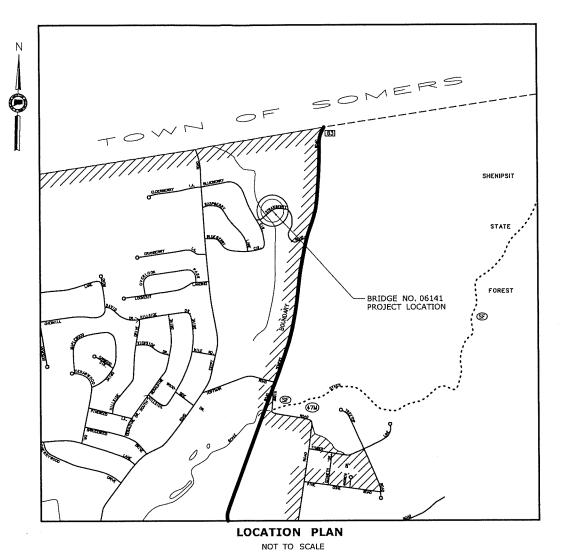
 5. ALL CONSTRUCTION ACTIVITIES WILL BE CONDUCTED IN ACCORDANCE WITH THE DEPARTMENTS STANDARD SPECIFICATIONS FOR ROADS, BRIDGE, AND INCIDENTAL CONSTRUCTION, FORM 818, SECTION 1.10 AND WILL ALSO FOLLOW REQUIRED BEST MANAGEMENT PRACTICES (BMPS) AND SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH THE 2002 EROSION & SEDIMENTATION CONTROL GUIDELINES AND THE 2004 STORMWATER QUALITY MANUAL



LIST OF DRAWINGS				
DRAWING NO.	DRAWING TITLE			
PMT-01	TITLE SHEET			
PMT-02	GENERAL SITE PLAN			
PMT-03	WETLAND/WATERCOURSE IMPACT PLAN			
PMT-04	100-YEAR FLOOD IMPACT PLAN			
PMT-05 ELEVATIONS & SECTION PLAN				
PMT-06	STAGING AND WATER HANDLING PLAN			

DESIGNED BY:





PLAN DATE: FEBRUARY 18, 2022



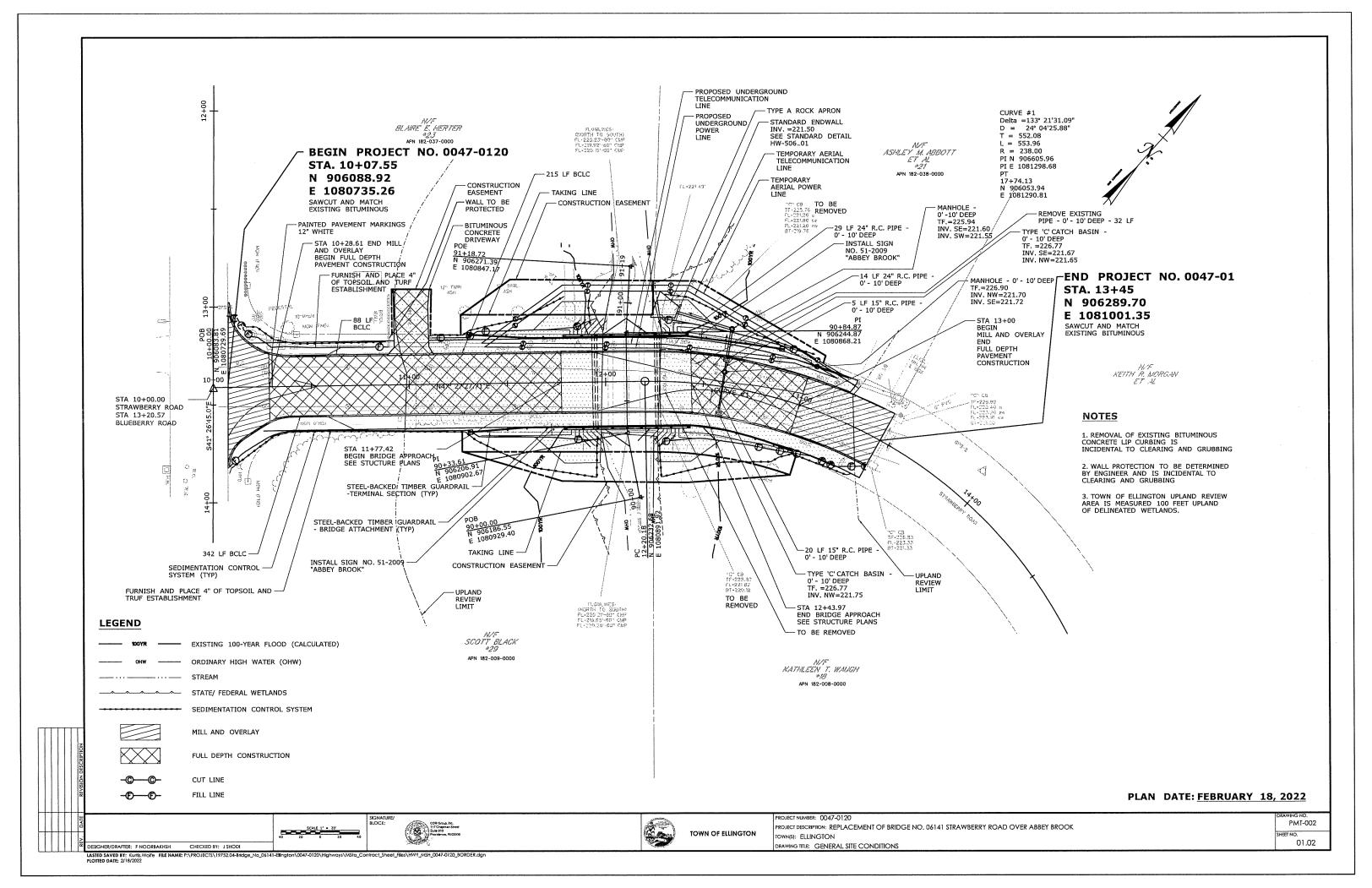
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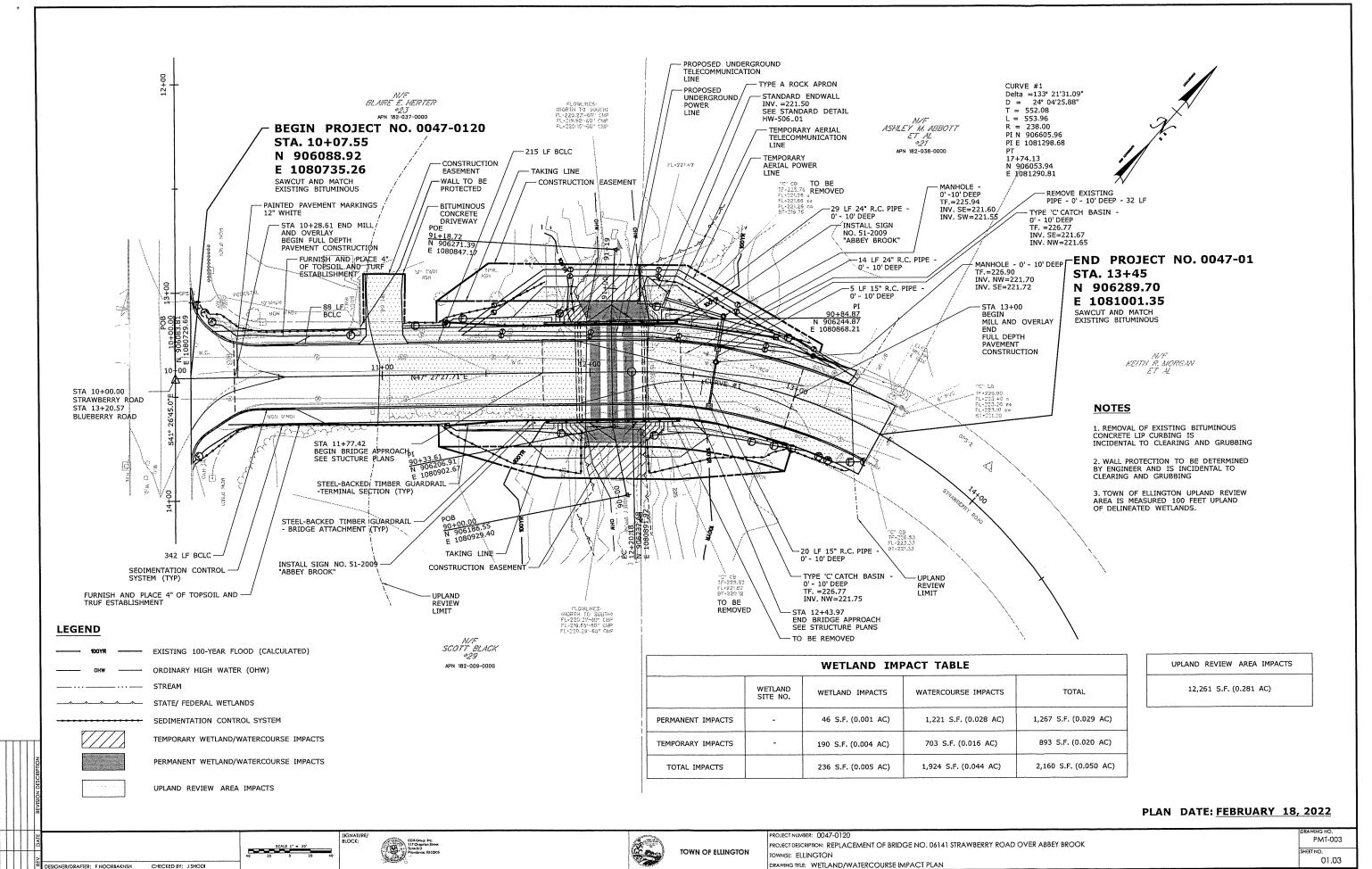
DRAWING TITLE: TITLE SHEET

PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 06141 STRAWBERRY ROAD OVER ABBEY BROOK TOWNISI: FLLINGTON

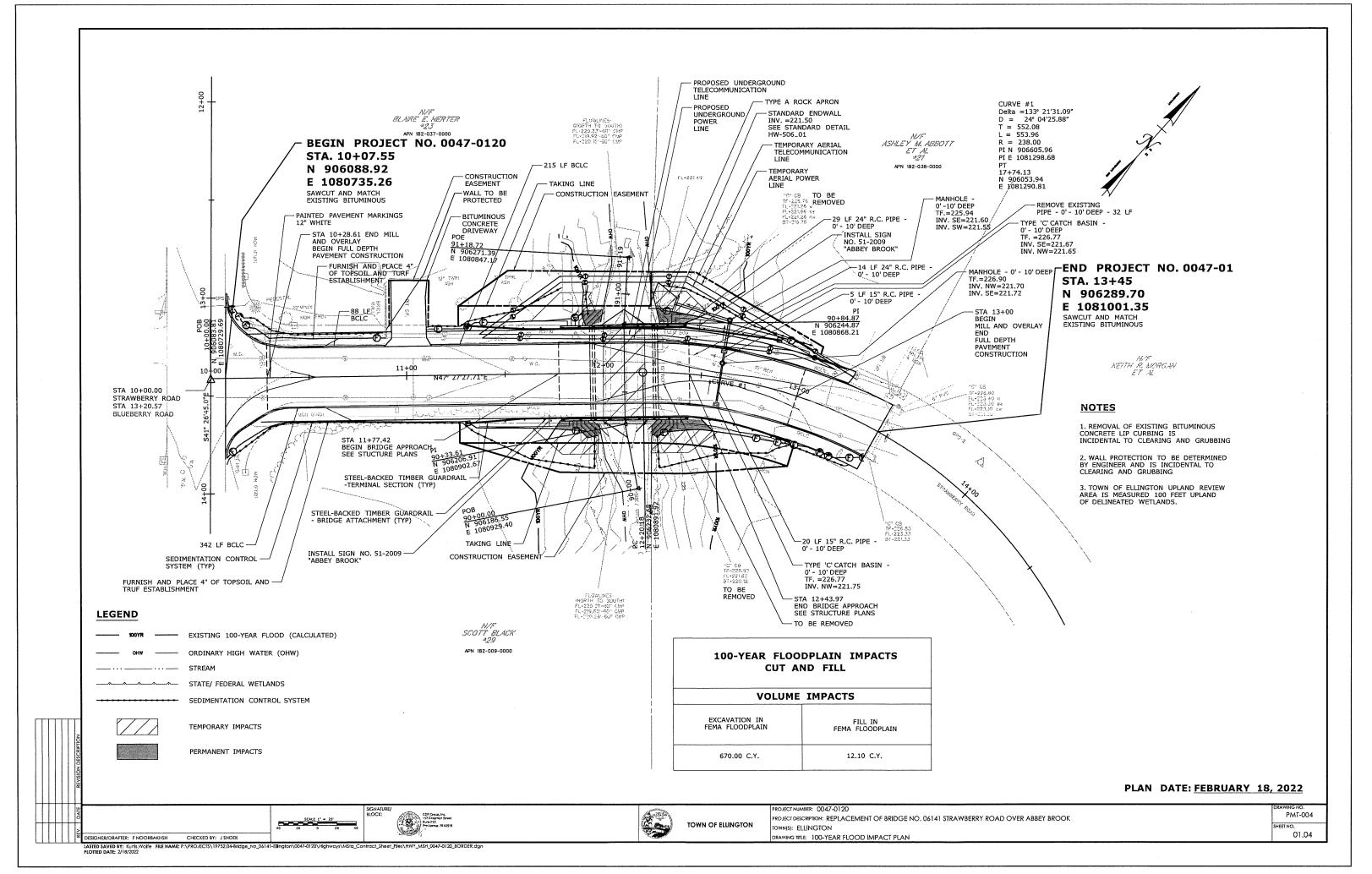
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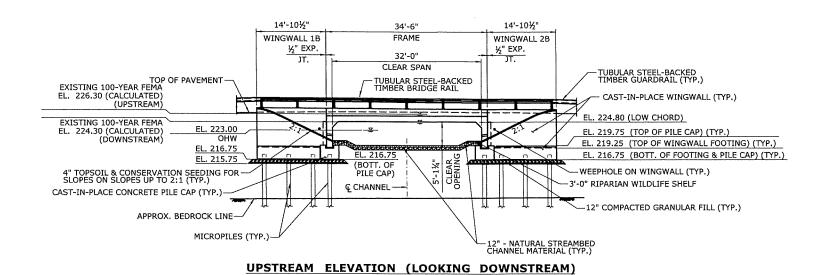
SIGNER/DRAFTER: F NOORBAKHSH CHECKED BY: J SHODI LASTED SAVED BY: Kurtls, Wolfe | FILE NAME: P:\PROJECTS\19752.04-8ridge_No_06141-Elington\0047-0120\Highways\MSto_Contract_Sheet_Fles\HWY_MSH_0047-0120_BORDER.dgn
PLOTTED DATE: 2/18/2022





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SCALE: 1" = 10'-0"

OPENNESS RATIO (OR):

OR = OPEN AREA / CULVERT LENGTH OR = 177.5 s.f / 48 ft. = 3.7 ft.3.7 ft. > 0.82 ft. (RECOMMENDED MINIMUM)

BANKFULL WIDTH (BFW):

BFW = 26 ft. EXISTING UPSTREAM (OHW) 1.2 * BFW = 31.0 ft.31 ft. < 32 ft. PROPOSED CULVERT SPAN

HYDRAULIC DATA	
DRAINAGE AREA	1.1 SQ.MILES
DESIGN FREQUENCY	100 YEAR
DESIGN DISCHARGE	475 C.F.S
AVERAGE DAILY FLOW	2 C.F.S
UPSTREAM DESIGN WATER SURFACE ELEVATION	224.6 FT.
DOWNSTREAM DESIGN WATER SURFACE ELEVATION	224.5 FT.
MAXIMUM SCOUR ELEVATION	213.5 FT.
FREQUENCY	500 YEAR
DISCHARGE	870 C.F.S
WORST CASE SCOUR SUB-STRUCTURE UNIT	ABUTMENT 2

CHECKED BY: J SHODI

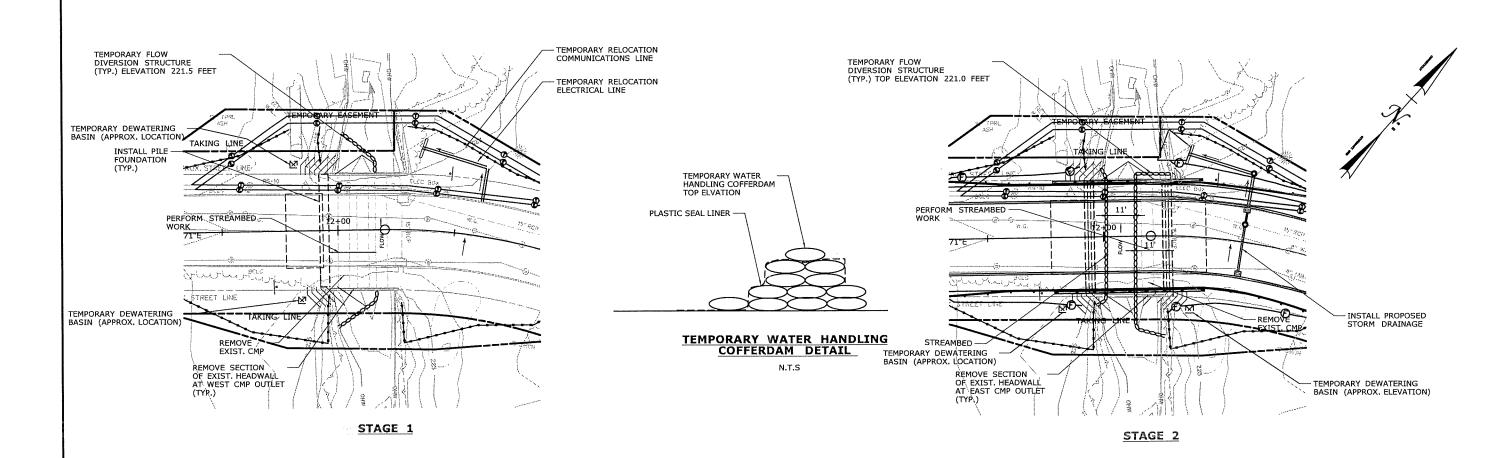
NATIVE STREAMBED MATERIAL NOTES:

- 1. NATIVE STREAMBED MATERIAL EXCAVATED DURING THE STRUCTURE INSTALLATION SHALL BE STOCKPILED AND THEN REPLACED WITHIN THE STRUCTURE TO THE DEPTH SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THE SPECIAL PROVISION " EXCAVATION AND REUSE OF EXISTING CHANNEL BOTTOM MATERIAL."
- 2. ADDITIONAL STREAMBED MATERIAL, IF REQUESTED, SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION "SUPPLEMENTAL STREAMBED CHANNEL MATERIAL."
- 3. THE STOCKPILE SHALL BE LOCATED OUTSIDE THE WETLAND LIMITS AND PROTECTED WITH SEDIMENTATIONAL CONTROL SYSTEM.

PLAN DATE: FEBRUARY 18, 2022



TOWN OF ELLINGTON



WATER HANDLING NOTES:

1. THE CONTRACTOR SHALL MAINTAIN WATER THROUGH THE TEMPORARY WATER HANDLING SYSTEM AS REQUIRED DURING CONSTRUCTION OF THE NEW STRUCTURE.

2. EQUIPMENT SHALL NOT BE PERMITTED IN THE STREAM WHEN TEMPORARY WATER HANDLING SYSTEM IS NOT IN PLACE WITHOUT APPROVAL FROM THE ENGINEER.

3, A DEWATERING BASIN SHALL BE STABLISHED OUTSIDE OF THE WETLAND LIMITS.

4. TEMPORARY WATER-HANDLING-COFFERDAM SHALL CONSIST OF AN APPROVED SYSTEM THAT THE CONTRACTOR ELECTS TO USE WHICH WILL SAFELY CONVEY WATER FLOWS THROUGH THE CONSTRUCTION AREA, SHALL BE ABLE TO SUPPORT CONSTRUCTION ACTIVITY

ANY WATER HANDLING SCHEME DEPICTED WITHIN THE DEPARTMENT'S 'HANDLING WATER TYPICAL SCHEMATICS' MAY BE UTILIZED UNLESS SPECIFICALLY PROHIBITED, A MEANS AND METHOD FOR WATER HANDLING SYSTEM SHALL BE SUBMITED BY THE CONTRACTOR TO THE

5. WATER HANDLING MEASURES SHALL NOT EXCEED IMPACT AREAS SHOWN ON THE WETLAND AND FLOODPLAIN IMPACT SHEETS OF THE PERMIT PLANS.

6. ANY STORM DRAINAGE DISCHARGING INTO A CONFINED WORK AREA FROM EXISTING OR PROPOSED STORM DRAINAGE PIPES SHALL BE SIZED BY THE CONTRACTOR TO HANDLE THE EXPECTED FLOWS AND BE DISCHARGED TO A STABLE LOCATION. THE CONTRACTOR SHALL SUBMIT THE MEANS AND MOTHODS OF HANDLING STORM DRAINAGE TO THE ENGINEER FOR APPROVAL AND IS INCLUDED AS PART OF WATER HANDLING.

7. IF A SHORT DURATION PUMP SYSTEM IS PROPOSED DURING LOW FLOW CONDITIONS, THE PUMP SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AND HAVE A MINIMUM CAPACITY AS SHOWN IN THE TEMPORARY HYDRAULIC TABLE, PUMP SYSTEM PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL

BASED UPON FIELD CONDITIONS, WORK DURATION, AND EXPECTED WEATHER CONDITIONS, THE ENGINEER MAY APPROVE A CONSTRUCTION WATER HANDLING PLAN WITH LOWER PUMPING FLOWS, PROVIDED THAT THIS INCLUDES A CONTINGENCY PLAN, WHICH MINIMIZES NEGATIVE IMPACTS AND SAFELY CONVEYS LARGER FLOWS THROUGH THE WORK AREA.

TEMPORARY HYDRAULIC DA	ATA				
STAGE 1 STAGE 2					
AVERAGE DAILY FLOW	2-CFS	2-CFS			
AVERAGE SPRING FLOW	4-CFS	4-CFS			
2-YEAR FREQUENCY DISCHARGE	50-CFS	50-CFS			
TEMPORARY DESIGN DISCHARGE	10-CFS	10-CFS			
TEMPORARY DESIGN FREQUENCY	1-YEAR	1-YEAR			
TEMPORARY WATER SURFACE ELEVATION UPSTREAM	221.2-FT	220.9-FT			
TEMPORARY WATER SURFACE ELEVATION DOWNSTREAM	220.8-FT	220.8-FT			

SUGGESTED SEQUENCE OF CONSTRUCTION:

STAGE 1

- 1. INITIATE ROAD CLOSURE AND ESTABLISH DETOUR
 2. INSTALL SEDIMENTATION CONTROL SYSTEM. PERFORM CLEARING
- AND GRUBBING, AS NECESSARY,
- 3. INSTALL TEMPORARY DEWATERING BASIN. BASIN TO REMAIN THROUGH ALL STAGES.
 4. ESTABLISH COFFERDAM SYSTEM AS SHOWN IN STAGE 1 TO PROVIDE WORK AREA TO REMOVE THE WESTERN PORTION OF THE EXISTING CULVERT AND CONSTRUCTION OF THE PROPOSED STRUCTURE.

- 1. REMOVE PREVIOUS COFFERDAM SYSTEM. 2. ESTABLISH SYSTEM OF COFFERDAMS SHOWN IN STAGE 2 TO PROVIDE WORK AREA TO REMOVE THE EASTERN PORTION OF THE EXISTING STRUCTURE AND CONSTRUCT THE EASTERN PORTION OF PROPOSED
- 3. REMOVE COFFERDAM SYSTEM AFTER COMPLETION OF STRUCTURE CONSTRUCTION.
- 4. REMOVE SEDIMENTATION CONTROL SYSTEM.
 5. END ROAD CLOSURE AND DETOUR.

TIME-OF-YEAR BMP NOTES:

ANY "UNCONFINED" INSTREAM WORK WITHIN ABBEY BROOK SHALL BE RESTRICTED TO THE PERIOD FROM JUNE 1 TO SEPTEMBER 30, INCLUSIVE.

PLAN DATE: FEBRUARY 18, 2022

3CALE I

DESIGNER/DRAFTER: F NOORBAKHSH CHECKED BY: J SHODI





TOWN OF ELLINGTON

PROJECT NUMBER: 0047-0120 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 06141 STRAWBERRY ROAD OVER ABBEY BROOK TOWNISI: FILINGTON

RAWING TITLE: STAGING/WATER HANDLING PLAN

PMT-006 01.06

Wetland Delineation Report



Connecticut Bridge Program

Replacement of Bridge No. 06141

State Project No. 47-120

Strawberry Road over Abbey Brook

Ellington, Connecticut



February 2020



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1. INTRODUCTION

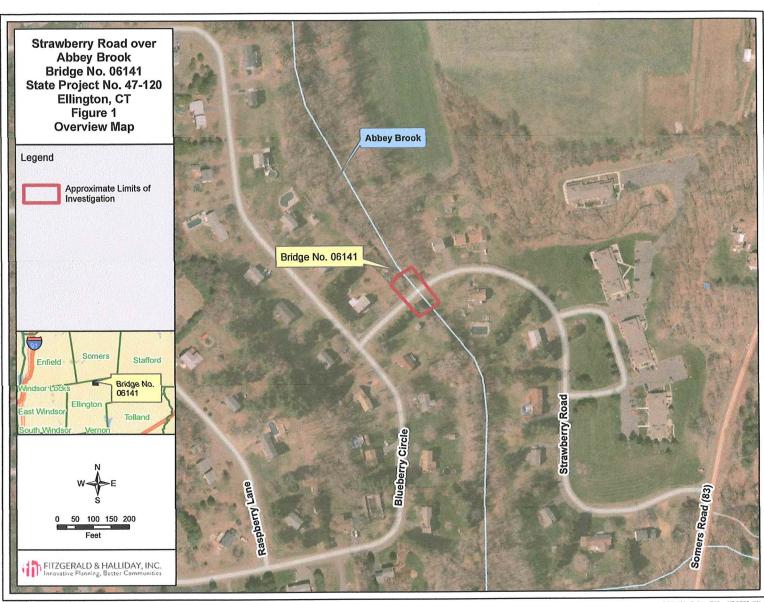
Fitzgerald & Halliday, Inc. (FHI) was retained by Close, Jensen and Miller, PC (CJM) to identify and delineate wetlands and watercourses within, or adjacent to, Bridge No. 06141, Strawberry Road over Abbey Brook in Ellington, Connecticut (see Figure 1 – Overview Map). This work effort is to support State Project No. 47-120. FHI soil scientists conducted the wetland boundary delineation in October 2019. The methods used and results are detailed in this wetland delineation report.

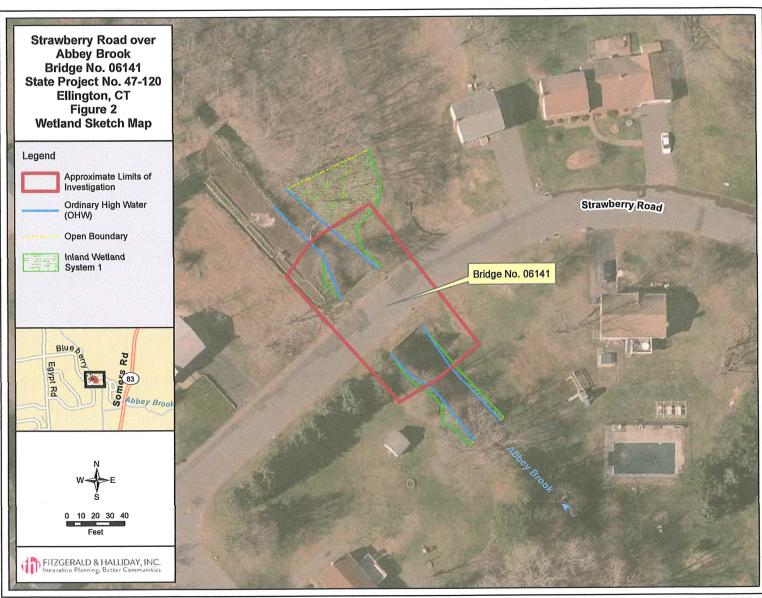
2. METHODS

All wetland resources were delineated in accordance with state and federal definitions and guidelines. The identification of inland wetlands and watercourses, as regulated by the State of Connecticut, was based upon definitions contained in Section 22a-38 of the Connecticut General Statutes (CGS). Connecticut inland wetland boundaries are determined by the limit of any of the soil types designated as poorly drained, very poorly drained, alluvial, and floodplain by the National Cooperative Soils Survey, as may be amended from time to time, of the Natural Resources Conservation Service (NRCS) of the United States Department of Agriculture (§22a-38-15). NRCS soil surveys were consulted to compare field observed soil types to those generally expected in the project area. Hydric soils, which include both poorly and very poorly drained soils, were identified for conformance with the Field Indicators for Identifying Hydric Soils in New England Version 4 (2019) and Field Indicators of Hydric Soils in the United States, Version 8.1 (2018).

Federal wetlands were identified per the U.S. Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual and the USACE 2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region – Version 2.0. The federal wetland boundary was determined by the limit of wetland vegetation (limit of plant community dominated, 50% or more cover, by species adapted to living in wetland conditions) based on visual inspection, and via the observation of hydric soil indicators and wetland hydrology.

USACE Wetland Determination Forms have been prepared for delineated wetland systems. These forms are provided in Appendix A. FHI conducted wetland function and value assessments for delineated wetlands in accordance with the USACE *Highway Methodology Supplement* (1999) guidelines. A Wetland Function and Value Form for the potentially impacted wetland system is provided in Appendix B. Photographs were taken of each wetland area, and representative images can be found in Appendix C. The delineation sketch graphic is depicted in **Figure 2 – Wetlands Sketch Map**.





3. RESULTS

The boundaries of one perennial watercourse and four state and federal inland wetland areas, which are all part of the same overall wetland system (Wetland System 1) associated with and hydrologically connected to Abbey Brook, were delineated within the project limits. These wetland areas are directly connected to Abbey Brook and are located in each of the four bridge quadrants. Ordinary High Water (OHW) of Abbey Brook was also demarcated in the field within the project limits. The wetland system and OHW extend beyond the project limits. This is described in detail below.

The fieldwork confirms and supports the presence of NRCS mapped designation Scarboro muck and Sudbury loams in and adjacent to the Bridge 06141 project area. However, small inclusions of unmapped disturbed soils were also observed deviating from the NRCS mapped boundaries. Refer to Section 5.0 of this report for the NRCS maps depicting the location and extent of these soil units and respective soil descriptions.

4. DETAILED RESOURCE DESCRIPTIONS

Abbey Brook

The Abbey Brook, which flows beneath Bridge No. 06141 and through a developed residential neighborhood, is a perennial watercourse which averages approximately 12 feet across. Abbey Brook flows north into Somersville Pond which discharges into the Scantic River, contributing to the Connecticut River, and ultimately discharging into Long Island Sound. The substrate of Abbey Brook is high in organic detritus and fine silts.

The northwest corner of Bridge 06141 is generally steep up to a level terrace between the brook and the slightly more elevated residential structures. A small pocket of wetlands exists immediately to the northwest of the structure before the bank becomes steep. The northeast corner has a low floodplain area with trees and shrubs before the local relief again increases. North of the bridge, Abbey Brook is wider and deeper, still maintaining its silty substrate. The banks are more defined, with no undercutting, and overhanging vegetation provides shade throughout.

The southeast corner of Bridge 06141, Abbey Brook is bordered by maintained lawns creating an abrupt bank along the water's edge. There is no undercutting of the bank nor shade provided by overhanging vegetation. The southwest bank has a bordering vegetated wetland approximately 15 feet wide and is stable.

State and Federal Wetlands

Wetland System 1

Wetland Areas South of Bridge 06141

The wetland area southeast of the bridge is a maintained lawn with a narrow Palustrine Emergent (PEM) vegetated bank along the eastern edge of Abbey Brook. Existing NRCS soils are mapped as

a Sudbury sandy loam. Evidence of a buried O (muck) horizon was observed at approximately 12-inches indicating fill was deposited above the native hydric soil. There is a direct hydrologic connection existing between Abbey Brook and the wetland system at the groundwater level. Dominant vegetation observed includes Silky Dogwood (Cornus amomum), Black Elderberry (Sambucus nigra), Red Fescue (Festuca rubra), American bur-reed (Sparganium americanum), and Jewelweed (Impatiens capensis). The primary functions and values of this areas include floodflow alteration and sediment/shoreline stabilization.

The wetland area southwest of the bridge is a Palustrine Scrub-Shrub (PSS) wetland which becomes more emergent in character at the bank. There is a greater presence of mucky material above a mineral layer due to organic deposits and low flow throughout the wetland area. There is a small stepped bank, approximately 4-6-inches, in the southern portion and an abrupt bank closer to the bridge. The western edge of the wetland abruptly ends at a steep rise in elevation to the adjacent residential property. Some evidence of historic residential waste (debris) was observed within the wetland. Soils in this wetland are best described as Scarboro Muck. Dominant Vegetation observed includes Red Maple (Acer rubrum), Silky Dogwood, Speckled Alder (Alnus incana), Jewelweed, and Broad-leaf Cattail (Typha latifolia). Principal functions and values of this wetland area are floodflow alteration and sediment/shoreline stabilization.

Wetland Areas North of Bridge 06141

The wetland area northwest of the bridge is a PEM wetland in a small depression adjacent to Abbey Brook on the northwest bank of Bridge 06141. Soils within this wetland are hydrologically connected to the water table and are therefore saturated long enough to exhibit hydric soil indicators. Dominant vegetation observed includes Red Maple, American Elm (Ulmus americana), Black Elderberry, Reed-canary Grass (Phalaris arundinacea), and Jewelweed. The principal functions and values are floodflow alteration and sediment/shoreline stabilization.

The wetland area northeast of the bridge is a Palustrine Forested wetland (PFO). This flat low-lying wetland functions as a potential flood storage area. Minimal herbaceous vegetation was observed. Mucky soils were encountered down to groundwater confirming NRCS designation of Scarboro Muck soils. The eastern limit of the wetland has an abrupt rise in elevation and a change in soil type to a Sudbury fine sandy loam partially disturbed by adjacent residential development. Additionally, adjacent to the northeast bridge abutment udorthents are present from recent excavation associated with the adjacent residential building. Dominant vegetation observed includes Red Maple, American Elm, Silky Dogwood, Northern Spicebush (Lindera benzoin), Multiflora Rose (Rosa multiflora), Skunk Cabbage (Symplocarpus foetidus), and Jewelweed. Principal functions and values of this area are floodflow alteration and sediment/shoreline stabilization.

Dominant upland vegetation observed in the project area includes Black Walnut (Juglans nigra), Black Cherry (Prunus serotina), Red Mulberry (Morus rubra), Autumn Olive (Elaeagnus umbellata), Black Berry (Rubus allegheniensis), Winged Euronymus (Euonymus alatus), Goldenrod Sp. (Solidago sp.), Oriental Bittersweet (Celastrus orbiculatus), and Japanese Honeysuckle (Lonicera japonica).

5. NRCS MAPPED SOILS

Natural Resources Conservation Service (NRCS) soils classifications on the project site are depicted in **Figure 3 – NRCS Soils**. Only those found on the project site are described below.

Scarboro Muck

The Scarboro series consists of very deep, very poorly drained soils in sandy glaciofluvial deposits on outwash plains, deltas, and terraces. They are nearly level soils in depressions. Slope ranges from 0 through 3 percent. Taxonomic classification is Sandy, mixed, mesic Histic Humaquepts.

Sudbury Sandy Loam

The Sudbury series consists of very deep, moderately well and somewhat poorly drained soils on outwash plains. They are nearly level through strongly sloping soils in slight depressions and on terraces and foot slopes in areas of outwash or glaciofluvial deposits. The soils formed in water sorted sandy and gravelly glaciofluvial materials derived mainly from granite, gneiss, and schist. The potential for surface runoff is low to very high. The internal drainage is restricted by a seasonal highwater table.

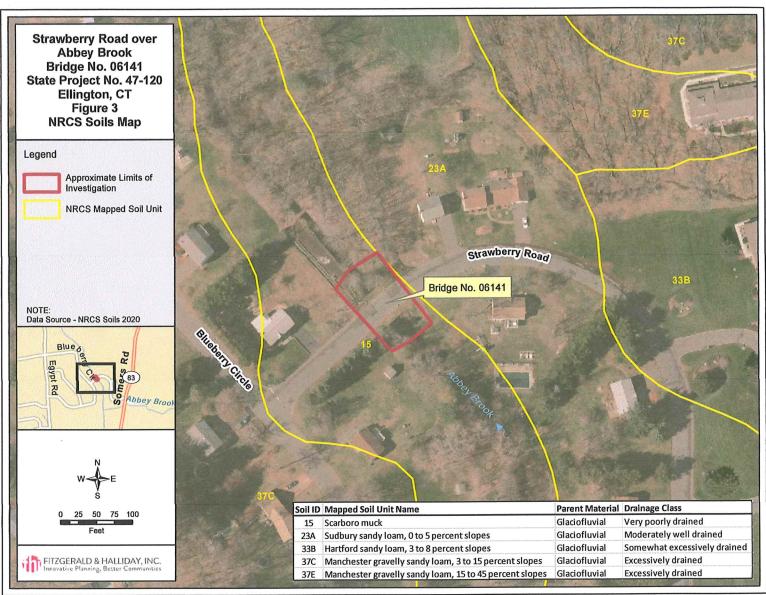
Udorthents

Udorthents consist of earthy materials that have been shaped or otherwise disturbed by humans. Slopes range from 0 to 25 percent. Onsite investigations are required for interpretations.

6. SUMMARY

FHI delineated wetland resources within the study area in accordance with both federal and state definitions and guidelines. The major resource in the project area is Abbey Brook and the associated wetland system. Four wetland areas, all part of the same overall wetland system, on either side of Abbey Brook were delineated adjacent to the Bridge No. 06141 upstream and downstream. The lands under and surrounding Bridge No. 06141 have previously been disturbed by human activity; however, the delineated wetlands still provide functions and values.

A Wetland Determination (Transect) Form is attached in Appendix A. A Wetland Function and Value Form is attached in Appendix B, and wetland photographs are attached to this report in Appendix C.



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APPENDIX A: USACE WETLAND DETERMINATION FORMS (TRANSECTS)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CT Bridge No. 06141 - Ellington	City/County: Ellington/Tolland Sampling Date: 10/23/2019
Applicant/Owner: CTDOT	State: CT Sampling Point: D-WET
Investigator(s): Daniel Hageman, Josh Weiss	Section, Township, Range:
Landform (hillside, terrace, etc.): Floodplain	Local relief (concave, convex, none): None Slope (%): 0

Subregion (LRR or MLRA): LRR R, MLRA 145 Lat: 41°56'52.9	
Soil Map Unit Name: Scarboro Muck	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time	
Are Vegetation Y, Soil Y, or Hydrology N signifi	cantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N natura	ally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ing sampling point locations, transects, important features, etc.
Lhadrackatic Versettin Present?	In the Complet Area
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: Wetland D (Northwest Comer)
Remarks: (Explain alternative procedures here or in a separate	
Abbey Brook has been modified by human activity	eport.)
The state of the s	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that ar	Surface Soil Cracks (B6)
	nined Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic F	auna (B13) Moss Trim Lines (B16)
X Saturation (A3) Mart Depo	osits (B15) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen	Sulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized	Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence	of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Ire	on Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5)Thin Muc	Surface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Ex	plain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (i	nches):
Water Table Present? Yes X No Depth (i	nches): 8"
Saturation Present? Yes X No Depth (i	nches): 0" Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspections), if available:
Remarks:	

Free Stratum (Plot size: 30'x30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
. Acer rubrum	90	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)		
3. i.				Total Number of Dominant Species Across All Strata:5(B)		
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)		
7.				Prevalence index worksheet:		
	90	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15'x15'))			OBL species x 1 = 20		
. Alnus incana	15	Yes	FACW	FACW species 60 x 2 = 120		
. Rosa multiflora	15	Yes	FACU	FAC species 90 x 3 = 270		
. Sambucus nigra	5	No	FACW	FACU species 15 x 4 = 60		
				UPL species0 x 5 =0		
				Column Totals: 185 (A) 470 (B		
				Prevalence Index = B/A = 2.54		
				Hydrophytic Vegetation Indicators:		
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
erb Stratum (Plot size: 5'x5')		•		X 2 - Dominance Test is >50%		
. Impatiens capensis	40	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹		
. Symplocarpus foetidus	20	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supportir data in Remarks or on a separate sheet)		
				Problematic Hydrophytic Vegetation ¹ (Explain)		
i				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
-				Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm) or more in diamet at breast height (DBH), regardless of height.		
0. 1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
2.		=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
Noody Vine Stratum (Plot size:		-		Woody vines – All woody vines greater than 3.28 ft in height.		
				Hydrophytic		
<u> </u>	•			Vegetation Present? Yes X No		
1.		=Total Cover		Present? Yes X No No		
		- TOTAL COVEL				

Sampling Point:

D-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix			Feature							
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	<u> </u>		
0-16	10YR 2/2	-					Muck				
16-24	7.5YR 3/4	92	5YR 3/4	8	C	_M_	Sandy	Faint redox conc	entrations		
					-						
*											

						-					
¹ Type: C:	=Concentration, D=Dep	letion, RI	M=Reduced Matrix, C	S=Cove	red or Co	ated Sand		cation: PL=Pore Lining,			
Hydric So	oil Indicators:							or Problematic Hydric S			
X Histo	sol (A1)		Polyvalue Below	Surface	e (S8) (LF	RR,	2 cm Muck (A10) (LRR K, L, MLRA 149B)				
	: Epipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)				
	Histic (A3)		Thin Dark Surface								
	ogen Sulfide (A4)		High Chroma Sa				Polyvalue Below Surface (S8) (LRR K, L)				
	fied Layers (A5)		Loamy Mucky M			K, L)	Thin Dark Surface (S9) (LRR K, L)				
	eted Below Dark Surfac	e (A11)	Loamy Gleyed N		2)		Iron-Manganese Masses (F12) (LRR K, L, R)				
	Dark Surface (A12)	Depleted Matrix				Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)					
Sandy Mucky Mineral (S1)			Redox Dark Surface (F6)				Red Parent Material (F21)				
Sandy Gleyed Matrix (S4)			Depleted Dark Surface (F7) Redox Depressions (F8)				Very Shallow Dark Surface (TF12)				
Sandy Redox (S5)			Mari (F10) (LRR)		Other (Explain in Remarks)				
	ped Matrix (S6) Surface (S7)	IVIAII (I TO) (LIKI	· r., -/			- Cities (Explain in Containe)					
— Daik	Juliace (37)										
3Indicator	s of hydrophytic vegeta	tion and	wetland hydrology mu	st be pr	esent. uni	ess distur	bed or problemation	С.			
	ve Layer (if observed)				,						
Type:	,										
-	(inches):						Hydric Soil P	resent? Yes X	No		
Remarks											
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils											
version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)											
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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: CT Bridge No. 06141- Ellington	City/County: Ellington/	Tolland	Sampling Date: 10/23/2019						
Applicant/Owner: CTDOT		State:	CT Sampling Point: D-Up						
Investigator(s): Daniel Hageman, Josh Weiss Section, Township, Range:									
Landform (hillside, terrace, etc.): floodplain Local relief (concave, convex, none): none Slope (%):									
	· · · · · · · · · · · · · · · · · · ·		Datum: WGS84						
	°56'52.66" Lor	ng: 72°27'09.39"							
Soil Map Unit Name: Sudbury Fine Sandy Loam			fication: NA						
Are climatic / hydrologic conditions on the site typical for th			n in Remarks.)						
Are VegetationY, SoilY, or HydrologyY_		ormal Circumstances" pr							
Are Vegetation $\underline{\hspace{1cm}N\hspace{1cm}}$, Soil $\underline{\hspace{1cm}N\hspace{1cm}}$, or Hydrology $\underline{\hspace{1cm}N\hspace{1cm}}$	_naturally problematic? (If need	ded, explain any answers	s in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.									
Lludrophytic Vogetation Property Voe	No X Is the Sampled A	roa							
	No X Is the Sampled A No X within a Wetland		No _ X						
	No X If yes, optional We								
Remarks: (Explain alternative procedures here or in a se									
Area disturbed by bridge construction and residental deve									
Area disturbed by bridge construction and residental deve	лортет								
HYDROLOGY									
		Socondary Indi	cators (minimum of two required)						
Wetland Hydrology Indicators:	I that amply)		cators (minimum or two required) in the control of two required in two required in the control of two required in the contro						
Primary Indicators (minimum of one is required; check all									
	Water-Stained Leaves (B9) Drainage Patterns (B10) Assertic Found (B40) Many Trim Lines (B46)								
	uatic Fauna (B13)		Moss Trim Lines (B16)						
	arl Deposits (B15)		Season Water Table (C2)						
l	Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)								
	Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)								
	Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)								
<u> </u>	ecent Iron Reduction in Tilled Soils (ic Position (D2)							
l —— · · · · · · ——	in Muck Surface (C7)	***************************************	ow Aquitard (D3)						
	her (Explain in Remarks)	TO A STATE OF THE	topographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)		FAC-Neutr	ral Test (D5)						
Field Observations:									
· · · · · · · · · · · · · · · · · · ·	Depth (inches):								
	Depth (inches):								
Saturation Present? Yes No X D	Depth (inches): Wet	land Hydrology Presen	nt? Yes No_X_						
(includes capillary fringe)									
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspections	i), if available:							
Remarks:									
·									

VEGETATION - Use scientific names of pla	Sampling Point:D-Up			
Tree Stratum (Plot size: 30'x30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
 Morus rubra 	15	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 4 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7.	***************************************			Prevalence Index worksheet:
	15	_=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'x15')				OBL species0 x 1 =0
1. Forsythia ovata	10	Yes	UPL	FACW species 0 x 2 = 0
2. Euonymus alatus	15	Yes	UPL	FAC species 0 x 3 = 0
3.		_		FACU species 85 x 4 = 340
4.				UPL species 25 x 5 = 125
5.				Column Totals: 110 (A) 465 (B)
6.				Prevalence Index = B/A = 4.23
7.				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5'x5')	D'i			2 - Dominance Test is >50%
	70	Yes	FACU	3 - Prevalence Index is ≤3.0¹
1. Festuca rubra 2.		103	IAOO	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
3.				
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.			Name of the last o	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9.				at breast height (DBH), regardless of height.
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.	70	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:) 1.				Woody vines – All woody vines greater than 3.28 ft in height.
				Hydrophytic
3.				Vegetation Present? Yes No X
4.		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a sepa	arate sheet.	.)		

D-Up

		to the de				or or conf	irm the absence of inc	licators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Feature %	Type ¹	Loc ²	Texture	Remar	ks		
			Color (molety		1300		Sandy				
0-10	10YR 3/3				***************************************						
10-14	7.5YR 3/4						Sandy				
14-20	7.5YR 3/4						Sandy	Grave	<u>el</u>		
Political Manager Street											
							21	DI Des Lisia	- NA-NA-NA-NA-NA-NA-NA-NA-NA-NA-NA-NA-NA-N		
	Concentration, D=Dep	letion, R	M=Reduced Matrix, C	S=Cove	red or Co	ated Sand		n: PL=Pore Lining			
•	oil Indicators: sol (A1)		Polyvalue Belov	v Surface	e (S8) (LF	RR R.	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, MLRA 149B)				
	Epipedon (A2)		MLRA 149B)		- (, (,	Coast Prairie Redox (A16) (LRR K, L, R)				
	Histic (A3)		Thin Dark Surface (S9) (LRR R, MLRA 1498								
Hydro	gen Sulfide (A4)		High Chroma Sa	ands (S1	1) (LRR	<, L)	Polyvalue Below Surface (S8) (LRR K, L)				
Strati	fied Layers (A5)		Loamy Mucky N	lineral (F	1) (LRR	K, L)	Thin Dark Surface (S9) (LRR K, L)				
-	eted Below Dark Surface	e (A11)	Loamy Gleyed Matrix (F2)				Iron-Manganese Masses (F12) (LRR K, L, R)				
Thick Dark Surface (A12)			Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Sandy Mucky Mineral (S1)			Redox Dark Sur				Red Parent Material (F21)				
Sandy Gleyed Matrix (S4)			—— Depleted Dark S				Very Shallow Dark Surface (TF12)				
Sandy Redox (S5)			Marl (F10) (LRF	• •	,		Other (Explain in Remarks)				
Stripped Matrix (S6)Dark Surface (S7)			Wall (1 10) (LIVI	· · · · · · · · · · · · · · · · · · ·			Other (Explain	ir iii r tomanto,			
³ Indicators	s of hydrophytic vegeta	ition and	wetland hydrology mu	ist be pro	esent, unl	ess distur	bed or problematic.				
Restrictiv	Restrictive Layer (if observed):										
Type: _											
Depth (inches):						Hydric Soil Presen	t? Yes	No_X		
Remarks: This data version 7.	form is revised from N	orthcentra (http://ww	al and Northeast Regi w.nrcs.usda.gov/Inter	onal Sup net/FSE	pplement _DOCUM	Version 2 ENTS/nro	.0 to reflect the NRCS F :s142p2_051293.docx)	field Indicators of	Hydric Soils		

APPENDIX B: WETLAND FUNCTION-VALUE FORMS

Wetland Function-Value Evaluation Form

	V	CL	iana i unction-va	nuc	L'aldation i oim	
NA NO					Wetland I.D. Wetland System 1	
Total area of wetland NA Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No						Latitude Longitude
Adjacent land use Residential and Transportarion Distance to nearest roadway or other development ~20'						Prepared by: JW Date 10/23/2019
Dominant wetland systems present PEM/PSS/PFO Contiguous undeveloped buffer zone present No					er zone present No	Wetland Impact: Type_NA Area_NA
Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Middle				Evaluation based on:		
4				ance (see attached list)	Office X Field X	
					Corps manual wetland delineation completed? Y N_X	
Suitability Rationale Principal						
Function/Value	Y	N	(Reference #)* I	uncti	(-)	omments
Groundwater Recharge/Discharge	0	\odot	1, 7,12		groundwater discharge from	adjacent uplands into Abbey Brook
Floodflow Alteration	•	0	2,5,8,10,13,16	х	Abbey Brook likley backs up	at bridge into wetland during storms
Fish and Shellfish Habitat	0	0	4,7,10,14,16,17		Fish habitat presen	t, shallow water depth
Sediment/Toxicant Retention	0	0	1,3,4,8,10		organic soils have str	rong potential for retention
Nutrient Removal	•	0	2,3,5,7,9		organic soils have str	rong potential for retention
→ Production Export	0	•			few producing plant	s observed
Sediment/Shoreline Stabilization	0	0	3,5,9,15	х	banks very diffuse	,
W ildlife Habitat	0	0	2		limited size of wet	land for habitat
Recreation	0	0	6		private propery, po	tential fishing
Educational/Scientific Value	0	•	é		None	
★ Uniqueness/Heritage	0	0	2		Private Property	
Visual Quality/Aesthetics	•	0	9		Private Property	
ES Endangered Species Habitat	0	0			unknown	
Other	0	0				
					* D - C	alone list of mumbared considerations

Notes:

* Refer to backup list of numbered considerations.

APPENDIX C: REPRESENTATIVE PHOTOGRAPHS



Photo 1 – Facing north toward Bridge No. 06141

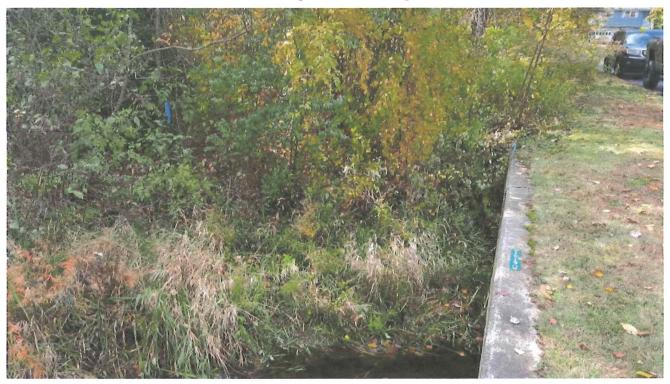


Photo 2 - Facing west from the south side of Bridge No. 06141



Photo 3 - Facing northwest from the north side of Bridge No. 06141



Photo 4 - Facing north from the northeast side of Bridge No. 06141

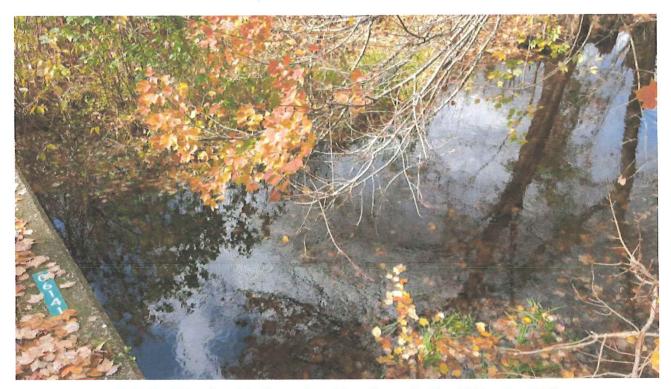


Photo 5 – Abbey Brook facing northwest from the north side of Bridge No. 06141



Photo 6 – Abbey Brook facing southeast from the south side of Bridge No. 06141

ROADWAY DRAINAGE REPORT

Connecticut Department of Transportation

Bridge No.06141 Strawberry Road over Abbey Brook

Town of Ellington
Tolland County, Connecticut

February 2022

Prepared for:
Connecticut Department of Transportation
2800 Berlin Turnpike
Newington, CT 06131-7546

Prepared by: CDR Maguire, Inc. 178 Thorn Hill Road, Suite 200 Warrendale, PA, 15086

CDR MAGUIRE

D. Reference

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2.	Project Description
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	B. Drainage Pipes
	C. Outlet Protection3
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Ar	<u>opendices</u>
	A. Project Location MapB. Roadway Plan SheetsC. Drainage Calculations

1. Introduction

This Roadway Drainage Report was developed for the Connecticut Department of Transportation, for the Replacement of Bridge No. 06141 carrying Strawberry Road over Abbey Brook in the Town of Ellington, Tolland County, CT.

The purpose of the project is the replacing an existing bridge over Abbey Brook with a new single span structure consisting of a precast concrete three-sided rigid frame supported by cast-in-place reinforced concrete pile caps founded on micropiles.

A project location map and Aerial view are in Appendix A.

2. PROJECT DESCRIPTION

The project is the replacement of Bridge No. 06141 and the roadway approaches. Bridge No. 06141 is a single span structure carrying Strawberry Road over Abbey Brook. It is located approximately 0.3 miles West of Route 83 in the town of Ellington. The bridge runs roughly east to west. The existing drainage system and outlet within the project limits will be relocated to accommodate the new low point in the roadway.

3. EXISTING DRAINAGE CONDITIONS

The project area is comprised of woods, brush, grass, roadways, and residential areas. The overall topography consists of rolling and mountainous terrain. There are no sidewalks, pedestrian/bicycle lanes or other unique features within the project area. However, there is BCLC on both sides of the roadway.

The receiving stream for all runoff in the project area is the Abbey Brook.

The existing roadway in general consists of two-15'-0" travel lanes, and the existing structure, which is a triple-cell culvert corrugated steel arch culvert with reinforced concrete end walls.

On the north side of the bridge at about Sta 12+27 LT&RT, there are existing catch basins and 15-inch RCP crossing at the low point of Strawberry Road that collects water and discharges to Abbey Brook. Two additional catch basins located just north of the project limits connect to the catch basin at Sta 12+27 LT.

4. PROPOSED DRAINAGE CONDITIONS

On the north side of the bridge, the existing inlets and 15-inch RCP at the low point at Sta 12+27, and a crossing will be removed and replaced with a system of catch basins, manholes and RCPs at the north side of the bridge that will discharge to the Abbey Brook west of Wingwall 2A.

The drainage system consists of two catch basins and two manholes at approximate Station 12+60. The catch basins and manholes are connected by proposed 15-inch RCP pipes in the east-west direction that wrap around Wingwall 2A to discharge to Abbey Brook at a location west of the wingwall 2A.

The roadway plans showing the existing and proposed drainage can be reviewed in Appendix B.

5. HYDROLOGY AND METHODOLOGY

The project has been designed to meet the requirements of the ConnDOT Drainage Manual

A. Rational Equation.

Peak runoff discharges for the roadway drainage systems were calculated using the Rational Method since all the contributing areas are well under the 200-ac maximum limit allowed for this method. Contributing areas were delineated and measured in CAD utilizing the site survey file and supplemented with LIDAR data and field views.

Runoff Factors for the Rational Equation was chosen from ConnDOT Drainage Manual, Table 6-5 for the areas. Based on field views of the various areas, the following values were used.

Surface		Runoff Coefficient
Street	Asphalt	0.70-0.95
	Concrete	0.80-0.95
Drives and Walks		0.75-0.85
Roofs		0.75-0.95

6. HYDRAULIC DESIGN

Preliminary engineering indicated that the existing system captures and conveys stormwater runoff from the roadway and adjacent residential and wooded properties to Abby Brook. The pipe and inlet system in the project area is replaced to accommodate the new roadway low point and improve existing conditions. The inlet capacities, pipes size, and shoulder drainage spreads were calculated using the Bentley "StormCAD" program.

For inlet design, including spread calculations, refer to Appendix C.

A. INLETS

Inlet spacing was determined by the allowable design spread from the manual based on the details for each section. For checking the spread and doing the gutter flow analysis the excel sheet has been provided based on the calculations on ConnDOT Drainage Manual. Inlet spreads are calculated at each inlet and any flows that bypass each are accounted for at the next downstream structure.

Storm event intensities were taken from NOAA Atlas 14 which is included in the references. Storm intensities are based on the time of concentration and for this project the minimum time of concentration for paved areas is 5 minutes and 10 minutes for grassed areas. The storm frequency and allowable spread were taken from Drainage Manual, table 11-2. For Town Roads design frequency was 10-year for sag condition and the ADT for this project is 103 (2018 estimated ADT). Based on table 11-2, the allowable spread for this project is 9.5.

For inlet design, including spread calculations, refer to Appendix C.

For design references, refer to Appendix D.

B. DRAINAGE PIPES

Replacement of the pipe system in the project area were designed to provide capacity and allow the system to operate properly in the future.

For inlet design, including spread calculations, refer to Appendix C.

C. OUTLET PROTECTION

A Type A Rip Rap Apron was selected for the outlet of the proposed drainage system at the endwall to the stream. This is appropriate design for the velocity from the outlet pipe calculated in previous sections of the report. Utilizing Connecticut DOT design guidance an apron was sized appropriately for the flow conditions.

For full outlet apron design, refer to Appendix C.

7. Conclusion

The proposed drainage system in the project site is designed and sized to accommodate stormwater in the future.



STATE OF CONNECTICUT – COUNTY OF TOLLAND INCORPORATED 1786

TOWN OF ELLINGTON

55 MAIN STREET – PO BOX 187 ELLINGTON, CONNECTICUT 06029-0187 www.ellington-ct.gov

TEL. (860) 870-3120

TOWN PLANNER'S OFFICE

FAX (860) 870-3122

INLAND WETLANDS AGENCY REGULAR MEETING MINUTES MONDAY, MARCH 14, 2022, 7:00 P.M.

IN PERSON ATTENDANCE: TOWN HALL ANNEX, 57 MAIN STREET, ELLINGTON, CT REMOTE ATTENDANCE: ZOOM MEETING (ATTENDEES BELOW WERE IN PERSON UNLESS OTHERWISE NOTED)

PRESENT: Chairman Ken Braga, Vice Chairman Ron Brown (remote, left 7:25pm), Regular

members Art Aube (remote), Jean Burns (remote), Hocine Baouche (arrived

7:03pm), and Steve Hoffman

ABSENT: Regular member Katherine Heminway

STAFF

PRESENT: John Colonese, Assistant Town Planner/Wetland Enforcement Officer and Barbra

Galovich, Land Use Assistant/Recording Clerk

I. CALL TO ORDER: Chairman Ken Braga called the Ellington Inland Wetlands Agency meeting to order at 7:00 pm.

II. PUBLIC COMMENTS (on non-agenda items): None

III. PUBLIC HEARING(S):

1. IW202201 – Minor LLC, owner/applicant, request for a wetlands map amendment at 50 East Shore Road, APN 169-045-0000.

Time: 7:02 pm

Seated: Braga, Brown, Aube, Burns, Baouche and Hoffman

Chairman Braga noted the notice requirements have been met and the property received acceptance for a Timber Harvest last year on March 8, 2021 from the Wetlands Agency. They are currently proposing to build a single family home and associated site improvements however the existing town wetlands map does not correspond with the onsite delineation by Joseph Theroux, Certified Soil Scientist.

Andrew LaRoche, 80 Chaffee Road, Stafford Springs, CT was present to represent the application.

Mr. LaRoche said he is looking to file the correct wetlands delineation map. He asked how the town got the wetlands limits. Mr. Colonese stated the wetlands limits are from a soil survey created in the 1960's. Commissioner Hoffman asked if the property survey was recent. Mr. LaRoche explained the property survey was taken from a subdivision back in 1985, and the wetlands delineation letter from Joseph Theroux is dated March 23, 2021.

Commissioner Hoffman asked about the soil test pit data and North Central District Health Department approval. Mr. LaRoche stated the health department approved the septic system. Commissioner Hoffman noted the health department would not have approved a system if it was in the wetlands.

Walter Moody, 32 East Shore Road, inquired about a potential intermittent watercourse on the property as noted in Joseph Theroux's report. Mr. Colonese read a portion of Joseph Theroux's report, "It should be noted that a potential intermittent watercourse was investigated adjacent to the northern property line, originating from the trench and storm water drainage system associated with Minor Road, extending down slope. A defined flow channel has formed from this storm water runoff. This is due to the impermeable subsoil horizons and/or compact till layers preventing infiltration of these storm water surface flows. Referencing the definition of "watercourses" in Sec.22a-38 of the Inland Wetlands and Watercourses Act, where the surface flows occur, there is evidence of a defined channel and bank, and evidence of scour/deposits of recent alluvium or detritus. However, there was no standing or flowing water present for a duration longer than a particular storm incident, nor was any evidence of hydrophytic vegetation found in the flow channel."

Ronald Campbell, 26 East Shore Road, asked if there would be any activity in the swale area, he is concerned about runoff from the property. It was noted that Joseph Theroux does not consider the swale an intermittent watercourse. Mr. LaRoche stated there is no proposed activity in that specific area at this time.

MOVED (BURNS) SECONDED (BAOUCHE) AND PASSED UNANIMOUSLY TO CLOSE THE PUBLIC HEARING FOR IW202201.

MOVED (HOFFMAN) SECONDED (BAOUCHE) AND PASSED UNANIMOUSLY TO APPROVE IW202201 – Minor LLC, owner/applicant, a wetlands map amendment at 50 East Shore Road, APN 169-045-0000. Map Amendment Effective: March 16, 2022

Approval based on:

- 1) Improvement Location Survey Land of Minor, LLC Ellington, Connecticut Gardner & Peterson Associates, LLC Date 11-01-2021 Revisions 01/20/2022 Town Wetlands, Map No. 10949-1.
- 2) Letter from Joseph Theroux, Soil Scientist dated 03/23/2021 RE: Wetlands Delineation, 50 East Shore Road, Ellington, CT.

IV. OLD BUSINESS: None

V. NEW BUSINESS:

 IW202202 – Glenn & Erika Bahler, owner/applicant, request to accept notification for construction of a barn and reconstruction of a farm pond dam as of right at 48 Meadow Brook Road, APN 091-002-0000.

Chairman Braga noted the property received a wetlands permit on September 15, 2008 for a 4-lot subdivision at which time a conservation easement was set over the area including the pond and proposed reconstruction of the dam. No lots in the subdivision have been developed.

Rachel Dearborn, Landmark Surveys, 62 Lower Butcher Road, was present to represent the request on behalf of Glenn and Erika Bahler.

Ms. Dearborn confirmed the land is part of a subdivision from years ago and nothing has been constructed. She explained the Bahler's are looking to take down an old barn foundation and construct a new barn, which will be further away from the wetlands. She then pointed out the location of the pond and brook and noted there is a natural spring which feeds them. She also reviewed where the conservation easement area is located. She said they would like to reconstruct the dam within the brook in order to bring up the water level of the farm pond.

Mr. Colonese asked Glenn Bahler if he is planning on doing any tree clearing down the stream. Mr. Bahler stated he does not plan to do so at this time.

MOVED (BURNS) SECONDED (AUBE) AND PASSED UNANIMOUSLY TO ACCEPT IW202202 — Glenn & Erika Bahler, owner/applicant, for construction of a barn and reconstruction of a farm pond dam as of right at 48 Meadow Brook Road, APN 091-002-0000.

2. Strawberry Road Bridge/Culvert Replacement

BY CONSENSUS, THE AGENCY ADDED TO THE AGENDA, RECEIVED, AND SET A PUBLIC HEARING FOR THE APRIL 11, 2022 REGULAR MEETING — Town of Ellington, owner/applicant, request for a permit to conduct regulated activity for the replacement of the Strawberry Road bridge/culvert over Abbey Brook near the intersection with Blueberry Circle.

3. Juliano's Pools – 100 Windermere Avenue

MOVED (BAOUCHE) SECONDED (AUBE) AND PASSED UNANIMOUSLY TO ADD TO THE AGENDA, RECEIVE, AND SET A PUBLIC HEARING FOR THE APRIL 11, 2022 REGULAR MEETING – Juliano Family One LLC, owner/Brian Juliano, applicant, request for modification to Wetlands Permit IW202110 to construct a detention basin and storage area at 100 Windermere Ave., APN 018-021-0000.

VI. ADMINISTRATIVE BUSINESS:

1. Approval of the February 14, 2022 Special Meeting Minutes.

MOVED (BURNS) SECONDED (BAOUCHE) AND PASSED UNANIMOUSLY TO APPROVE THE FEBRUARY 14, 2022 SPECIAL MEETING MINUTES AS WRITTEN.

2. Election of Officers

Chairman Braga asked the agency members to consider tabling the election of officers to next month. He stated he will be stepping down as chairman but will continue to be a regular member.

BY CONSENSUS, THE AGENCY TABLED ELECTION OF OFFICERS TO THE APRIL 11, 2022 REGULAR MEETING.

3. Correspondence/Discussion:

Letter from R. Richard Snarski, Registered Professional Soil Scientist, offering wetland consulting services to the Agency.

Mr. Colonese stated he received a letter from Mr. Snarski, New England Environmental Services, offering his professional services, such as soil scientist, wetland scientist and botanist consulting services, should the agency need additional professional consulting.

VI. ADJOURNMENT:

MOVED (HOFFMAN) SECONDED (BURNS) AND PASSED UNANIMOUSLY TO ADJOURN THE MARCH 14, 2022 REGULAR MEETING OF THE INLAND WETLANDS AGENCY AT 7:32 PM.

Respectfully submitted,					