



TOWN OF YARMOUTH

200 Main Street

Yarmouth, Maine 04096

WWW.YARMOUTH.ME.US

Fax: (207)846-2438

By (207)846-2401

SHORELAND ZONING PERMIT APPLICATION

PERMIT # 19-13 ISSUE DATE _____ FEE AMOUNT 150.00 *N/C*
Date: 3/6/19 Zoning District MDR Map 42 Lot 51 Ext _____
APPLICANT NAME: Steven Johnson PHONE NO: 207-846-2401
MAILING ADDRESS: 200 Main Street, Yarmouth, Maine 04096 e-mail sjohnson@yarmouth.me.us
OWNER (other than applicant)
NAME: Town of Yarmouth PHONE NO: 207-846-2401
MAILING ADDRESS: 200 Main Street, Yarmouth, Maine 04096 e-mail sjohnson@yarmouth.me.us
CONTRACTOR
NAME: TBD PHONE NO: TBD
MAILING ADDRESS: TBD e-mail TBD
PROPERTY LOCATION: 111 East Elm Street

Applicant must also include a narrative of the project including a description of all proposed construction, (E.G. Land clearing, road building, septic systems and wells – Please note: A site plan sketch is required on a separate sheet of paper no less than 11" x 17" or greater than 24"x36"

Please note: Plan set must be bound (not rolled) with a cover sheet and index.

Proposed use of project: Replacement of existing pedestrian bridge
Estimated cost of construction \$90,000
Lot area (sq. ft.) 890,366
Frontage on Road (FT) 167
SQ. FT. of lot to be covered by non-vegetated surfaces 297
Elevation above 100 YR Flood Plain 2.85
Frontage on water body (FT.) 8
Height of proposed structure Varies

Existing use of property Municipal Park

Proposed use of property Municipal Park

Note: NEXT Questions apply only to expansions of portions of existing structures that are less than the required setback.

- A) Total building footprint area of portion of structure that is less than required setback as of 1/1/89: N/A SQ.FT.
- B) Actual shore setback of existing structure proposed for expansion (measured as required in SOD, e.g.: Highest Annual Tide; Upland Edge of Coastal Wetland; Top of Bank (RP); Normal High Water Line of rivers and streams; as applicable): N/A
- C) Building footprint area of expansions of portion of structure that is less than required setback from 1/1/89 to present: N/A SQ.FT.
- D) Building footprint area of proposed expansion of portion of structure that is less than required setback: N/A SQ.FT.
- E) % Increase of building footprint of previous and proposed expansions of portion of structure that is less than required setback since 1/1/89: % increase = $((C+D) \times 100) / A =$
N/A %
- F) Floor Area and Market Value of Structure prior to improvements: (a) Area: N/A
Value: N/A. Floor Area and Market Value of portions of Structure removed, damaged or destroyed: (b) Area: N/A Value: N/A. If the floor area or market value of (b) exceeds 50% of the area or value of (a), then the Relocation provisions of Article IV.R.5.a.(3) and (4) shall apply. **Note:** A value appraisal may be required or submitted in close cases where the applicant asserts that that 50% trigger and relocation assessment provision is not met. **Any plan revisions after initial approvals to replace rather than renovate building components (foundations, framing, etc.) shall be required to recalculate the extent of removal, damage or destruction relative to retained structure.**
- ☐ Please provide a site plan to include lot lines, area to be cleared of trees and other vegetation; the exact position of proposed structures, including decks, porches, and out buildings with accurate setback distances from the shoreline, side and rear property lines; the location of proposed wells, septic systems, and driveways; and areas and amounts to be filled or graded. If the proposal is for the expansion of an existing structure, please distinguish between the existing structure and the proposed expansion.
- ☐ Note: For all projects involving filling, grading, or other soil disturbance you must provide a soil erosion control plan describing the measures to be taken to stabilize disturbed areas before, during and after construction.
- ☐ Draw a simple sketch showing both the existing and proposed structures with dimensions.

SHORELAND ZONING PERMIT CHECKLIST

Please note that this checklist is intended to help applicants identify major submittal components but it is the applicant's responsibility to review the SOD/RP provisions outlined in Chapter 701 of the Yarmouth Code and provide all required information as well as conform to all design components. Copies of Chapter 701 are available at the Yarmouth Town Hall or can be downloaded on the Town website which is www.yarmouth.me.us.

- ☐ Complete Shoreland Zoning Permit application including signatures of property owners and agents.
- ☐ Appropriate fee.
- ☐ Square footage of lot area within the 250' SOD
- ☐ Square footage and % of lot covered by non-vegetated surfaces within the SOD
- ☐ Square footage and % of cleared area within lot area within the SOD
- ☐ Delineation of 75' setback from upland edge of the coastal wetland
- ☐ Delineation of 250' SOD line from upland edge of the coastal wetland.
- ☐ Delineation of Resource Protection District
- ☐ Height of any proposed structures as measured between the mean original grade at the downhill side of the structure and the highest point of the structure
- ☐ Building elevations of any proposed structures as viewed from side and rear lot lines
- ☐ % Increase of expansions of portion of structure which is less than the required setback (if applicable)
- ☐ Floor Area and Market Value of Structure prior to improvements: (a) Area: _____ Value: _____. Floor Area and Market Value of portions of Structure removed, damaged or destroyed: (b) Area: _____ Value: _____.
- ☐ Elevation of lowest finished floor to 100 year flood elevation
- ☐ Evidence of submission of the application to the Maine Historic Preservation Commission (MHPC) at least twenty (20) days prior to the Planning Board meeting as required in Article IV.R.O
- ☐ Copy of additional permit(s) if applicable:
 - Planning Board (e.g. Subdivision, Site Plan Review)
 - Board of Appeals
 - Flood Hazard
 - Exterior plumbing permit (Approved HHE 200 Application Form)
 - Interior plumbing permit
 - DEP permit (Site Location, Natural Resources Protection Act)
 - Army Corps of Engineers Permit (e.g. Sec. 404 of Clean Waters Act)
- ☐ Please circle all habitat types, marine organisms and shoreline elements present: (Sand beach) (boulder/cobble beach) (sand flat) (mixed coarse & fines) (salt marsh) (**(ledge)**) (rocky shore) (mudflat) (sediment depth if known) (Bluff/bank) (Mussels) (clams) (marine worms) (rockweed) (eelgrass) (lobsters) (other _____)
- ☐ Signs of intertidal erosion? (Yes) (**(no)**)
- ☐ Energy: (**(protected)**) (semi-protected) (partially exposed) (exposed)
- ☐ Copy of deed
- ☐ Soil erosion control plan
- ☐ Photographs
- ☐ Plan view

NOTE: Applicant is advised to consult with the CEO and appropriate state and federal agencies to determine whether additional permits, approvals, and reviews are required.

CONDITIONS OF APPROVAL

The property shown on this plan may be developed and used only as depicted on this approved plan. All elements and features of the plan and all representations made by the applicant concerning the development and use of the property which appear in the record of the Planning Board proceedings are conditions of approval. No change from the conditions of approval is permitted unless an amended plan is first submitted to and approved by the Planning Board.

I certify that all information given in this application is accurate. All proposed uses shall be in conformance with this application and the Town of Yarmouth Shoreland Regulations in the Zoning Ordinance. I agree to future inspections by the Code Enforcement Officer / Planning Director / Planning Board members (as applicable) at reasonable hours and with advance notice.

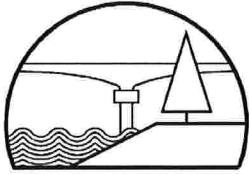
"I authorize appropriate staff within the Yarmouth Planning Department to enter the property that is the subject of this application, at reasonable hours, including buildings, structures or conveyances on the property, to collect facts pertaining to my application."

Applicant Signature Steven S. Johnson Date 3-6-19

Agent Signature _____ Date _____
(if applicable)

Code Enforcement Officer _____

DATE OF APPROVAL / DENIAL OF APPLICATION _____
(by either staff or planning board)



BAKER DESIGN CONSULTANTS
Civil, Marine and Structural Engineering

March 3, 2019

Maine DEP Southern Maine Regional Office
312 Canco Road
Portland, ME 04103

Subject: NRPA Permit by Rule Application; East Elm Street Footbridge, 120 East Elm St, Yarmouth

Dear Regulatory Representative,

I have enclosed an NRPA Permit by Rule application and fee for the East Elm Street Footbridge Reconstruction project located in Yarmouth. The project is being submitted under Permit by Rule Section 4.

Narrative of the Work Activity:

As shown on the drawings, the project involves removal and replacement of the existing aging footbridge. The footbridge crosses a non-tidal auxiliary channel of the Royal River. The intention is to place a new bridge superstructure on widened existing abutments with no disturbance to the sewer main that crosses at the same location or to the channel below. A detailed scope of work is shown on the drawings in Attachment E along with typical sections and details of the proposed work.

Support Documents (with page reference):

PERMIT BY RULE FORM	2
ATTACHMENT A AGENT AUTHORIZATION	3
ATTACHMENT B USGS MAP PROJECT LOCATION MAP	4
ATTACHMENT C SITE PHOTOS	5
ATTACHMENT D PROJECT PLANS	7

Please contact me with any questions regarding this application.

Sincerely,

BAKER DESIGN CONSULTANTS, Inc.

Barney Baker, PE – Principal Engineer

JN: 17-29

CC: Steve Johnson, PE – Yarmouth Town Engineer

PERMIT BY RULE FORM

04/06/2017

DEPARTMENT OF ENVIRONMENTAL PROTECTION
PERMIT BY RULE NOTIFICATION FORM
(For use with DEP Regulation, Natural Resources Protection Act- Permit by Rule Standards, Chapter 305)
PLEASE TYPE OR PRINT IN BLACK INK ONLY

APPLICANT INFORMATION (Owner)		AGENT INFORMATION (If Applying on Behalf of Owner)	
Name:	Town of Yarmouth, Attn: Steve Johnson	Name:	Baker Design Consultants
Mailing Address:	200 Main St.	Mailing Address:	7 Spruce Road
Town:	Yarmouth	Town:	Freeport
State and Zip Code:	Maine 04096	State and Zip Code:	Maine 04032
Daytime Phone #:	(207)-846-2401	Daytime Phone #:	(207)-846-9724
Email Address:	sjohnson@yarmouth.me.us	Email Address:	b.baker@bakerdesignconsultants.com

PROJECT INFORMATION							
Part of a larger project? (check one):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	After the Fact? (check one):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Project Involves work below mean low water? (check one):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name of waterbody:	Royal River Auxiliary channel
Project Town:	Yarmouth	Project Location (Address):	120 East Elm St.	Map & Lot Number:	42-51		
Brief Project Description:	Replacement of deteriorating footbridge						
Brief Directions to Site:	Heading north on US Hwy 1, exit onto Main St and turn right. Turn left onto E Elm St.						

PERMIT BY RULE (PBR) SECTIONS (Check at least one): I am filing notice of my intent to carry out work which meets the requirements for Permit By Rule (PBR) under DEP Rules, Chapter 305. I and my agents, if any, have read and will comply with all of the standards in the Sections checked below.

- | | | |
|--|---|--|
| <input type="checkbox"/> Sec. (2) Act. Adj. to Protected Natural Res. | <input type="checkbox"/> Sec. (10) Stream Crossing | <input type="checkbox"/> Sec. (17) Transfers/Permit Extension |
| <input type="checkbox"/> Sec. (3) Intake Pipes | <input type="checkbox"/> Sec. (11) State Transportation Facil. | <input type="checkbox"/> Sec. (18) Maintenance Dredging |
| <input checked="" type="checkbox"/> Sec. (4) Replacement of Structures | <input type="checkbox"/> Sec. (12) Restoration of Natural Areas | <input type="checkbox"/> Sec. (19) Activities in/on/over significant vernal pool habitat |
| <input type="checkbox"/> Sec. (5) REPEALED | <input type="checkbox"/> Sec. (13) F&W Creation/Enhance/Water Quality Improvement | <input type="checkbox"/> Sec. (20) Activities located in/on/over high or moderate value inland waterfowl & wading bird habitat or shorebird feeding & roosting areas |
| <input type="checkbox"/> Sec. (6) Movement of Rocks or Vegetation | <input type="checkbox"/> Sec. (14) REPEALED | |
| <input type="checkbox"/> Sec. (7) Outfall Pipes | <input type="checkbox"/> Sec. (15) Public Boat Ramps | |
| <input type="checkbox"/> Sec. (8) Shoreline stabilization | <input type="checkbox"/> Sec. (16) Coastal Sand Dune Projects | |
| <input type="checkbox"/> Sec. (9) Utility Crossing | | |

NOTE: Municipal permits *may* also be required. Contact your local code enforcement office for more information. Federal permits *may* be required for stream crossings and for projects involving wetland fill. Contact the Army Corps of Engineers at the Maine Project Office for more information.

NOTIFICATION FORMS CANNOT BE ACCEPTED WITHOUT THE NECESSARY ATTACHMENTS

- ☐ **Attach** all required submissions for the PBR Section(s) checked above. The required submissions for each PBR Section are outlined in Chapter 305 and may differ depending on the Section you are submitting under.
- ☐ **Attach** a check for the correct fee made payable to: "Treasurer, State of Maine". The current fee for NRPA PBR Notifications can be found at the Department's website: <http://www.maine.gov/dep/feesched.pdf>
- ☐ **Attach** a location map that clearly identifies the site (U.S.G.S. topo map, Maine Atlas & Gazetteer, or similar).
- ☐ **Attach Proof of Legal Name** if applicant is a corporation, LLC, or other legal entity. Provide a copy of Secretary of State's registration information (available at <http://icrs.informe.org/nei-sos-icrs/ICRS?MainPage=x>) Individuals and municipalities are not required to provide any proof of identity.

I authorize staff of the Departments of Environmental Protection, Inland Fisheries & Wildlife, and Marine Resources to access the project site for the purpose of determining compliance with the rules.

I also understand that this PBR becomes effective 14 calendar days after receipt by the Department *unless the Department approves or denies the PBR prior to that date.*

By signing this Notification Form, I represent that the project meets all applicability requirements and standards in the rule and that the applicant has sufficient title, right, or interest in the property where the activity takes place.

Signature of Agent or Applicant:	Barney J Baker	Date:	3.3.2019
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Keep a copy as a record of permit Send the form with attachments via certified mail or hand deliver to the Maine Dept. of Environmental Protection at the appropriate regional office listed below. The DEP will send a copy to the Town Office as evidence of the DEP's receipt of notification. No further authorization by DEP will be issued after receipt of notice. Permits are valid for two years. Work carried out in violation of any standard is subject to enforcement action.

AUGUSTA DEP
17 STATE HOUSE STATION
AUGUSTA, ME 04333-0017
(207)287-7688

PORTLAND DEP
312 CANCO ROAD
PORTLAND, ME 04103
(207)822-6300

BANGOR DEP
108 HOGAN ROAD
BANGOR, ME 04401
(207)941-4570

PRESQUE ISLE DEP
1235 CENTRAL DRIVE
PRESQUE ISLE, ME 04769
(207)764-0477

OFFICE USE ONLY		Ck.#	Staff	Staff	
PBR #	FP	Date	Acc. Date	Def. Date	After Photos

ATTACHMENT A AGENT AUTHORIZATION

Steve S. Johnson, PE – Town Engineer
TOWN OF YARMOUTH
200 Main Street
Yarmouth, Maine 04096

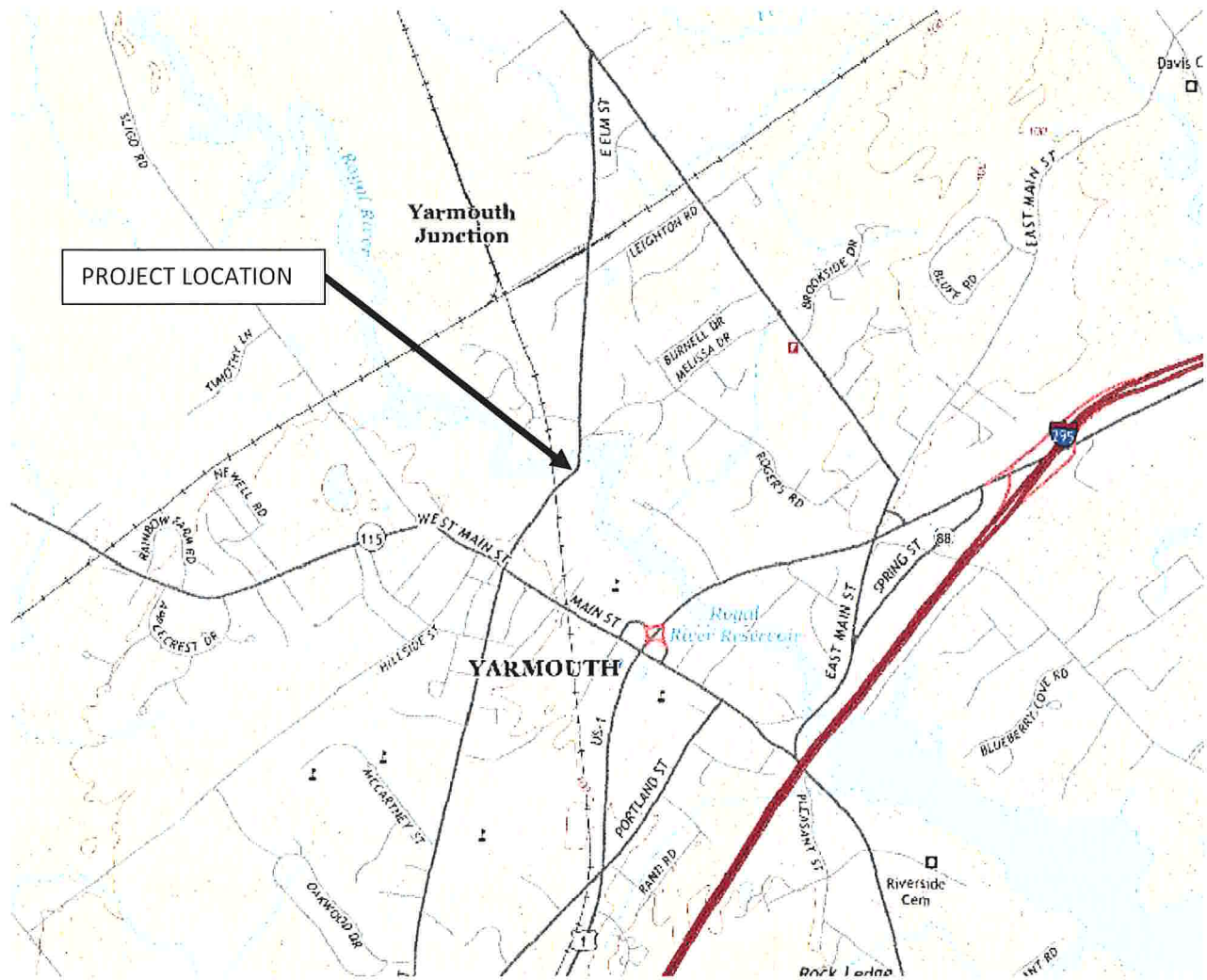
By signing below, I authorize Barney Baker, PE of Baker Design Consultants to act as agent for the purpose of permit communication on applications filed for the Elm Street Footbridge Replacement (Tax Map 42, Lot 51).

Signed: 

Date: 2-1-2019

STEVEN S. JOHNSON
TOWN ENGINEER
YARMOUTH

ATTACHMENT B USGS MAP PROJECT LOCATION MAP



SECTION OF USGS TOPO MAP

ATTACHMENT C SITE PHOTOS



Aerial Photo of Site – Google Earth, 2019



View of existing pedestrian bridge, taken on 5/24/18.



View of sewer main underneath footbridge, taken 7/6/17.



View of deteriorating bridge conditions, taken 7/6/17.

ATTACHMENT D PROJECT PLANS

The following plans are provided:

- SHEET G-1 COVER SHEET
- SHEET G-2 NOTES & SCHEDULES

- SHEET C-1 EXISTING BRIDGE PLAN & PROFILE
- SHEET C-2 PROPOSED BRIDGE PLAN & PROFILE

- SHEET S-1 TYPICAL BRIDGE SECTION
- SHEET S-2 ABUTMENT DETAILS

x:\17\17-29 east elm street ped bridge repair, yarmouth\cad\17-29 east elm st yarmouth general.dwg 3/4/2019

EAST ELM STREET FOOTBRIDGE

YARMOUTH, MAINE
PROJECT NO. 17-29

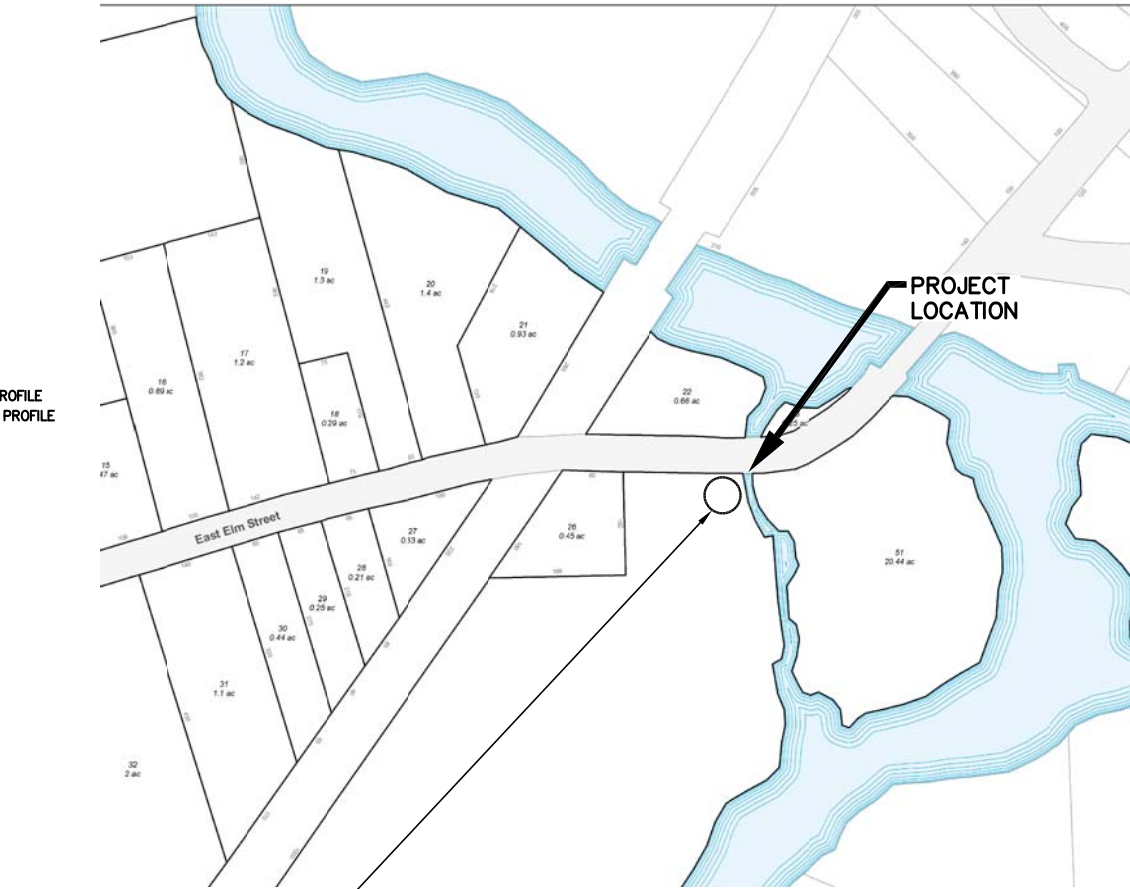


USGS LOCATION MAP



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
G-1	COVERSHEET
G-2	NOTES & SCHEDULES
C-1	EXISTING BRIDGE PLAN & PROFILE
C-2	PROPOSED BRIDGE PLAN & PROFILE
S-1	TYPICAL BRIDGE SECTIONS
S-2	ABUTMENT DETAILS



LAYDOWN AREA
(PORTION OF EXISTING PARKING AREA TO
BE COORDINATED WITH TOWN ENGINEER.)

TAX MAP #42



PROPERTY INFORMATION

OWNER:	TOWN OF YARMOUTH
ADDRESS:	200 MAIN STREET YARMOUTH, ME 04096
ZONING:	MDR/SOD/RP
SETBACKS:	NO CHANGE

BAKER DESIGN CONSULTANTS
Civil, Marine, and Structural Engineering
7 Spruce Road • Freeport • Maine • 04032 • 207-846-9724 • info@bakerdesignconsultants.com

PROJECT BID	3.3.19	BUB
PS&E SET	01.03.19	BUB
90% DESIGN	9.7.18	DUB
PRELIMINARY REVIEW	6.5.18	DUB
SUBMISSION	DATE	INT.
NO.		
DESIGNED BY:	DUB	
DRAWN BY:	DAP	
CHECKED BY:	BUB	
SCALE:	AS SHOWN	
SHEET TITLE:	COVERSHEET	
PROJECT:	EAST ELM STREET FOOTBRIDGE	
	TOWN OF YARMOUTH, ME	
DATE	JANUARY 2019	
CONTRACT NO.	17-29	
SHEET NO.	G-1	REV.
		D

GENERAL NOTES

- THE CONTRACTOR SHALL BE GOVERNED BY THE CONSTRUCTION SAFETY RULES AS ADOPTED BY THE STATE BOARD OF CONSTRUCTION SAFETY, AUGUSTA, MAINE.
- THE PROJECT IS SUBJECT TO THE SAFETY AND HEALTH REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AS PROMULGATED BY THE US DEPARTMENT OF LABOR.
- REFER TO SHEET C-2 FOR LIMITS OF EXISTING BRIDGE AND CLEARING NECESSARY TO ACCOMMODATE NEW BRIDGE. REINSTATE DISTURBED SURFACES IN ACCORDANCE WITH PLANS OR AS DIRECTED BY THE TOWN OR THEIR REPRESENTATIVE AS FOLLOWS:
 - ALL PAVED AREAS DISTURBED SHALL BE REINSTATED WITH BITUMINOUS PAVEMENT IN ACCORDANCE WITH MAINE DOT STANDARDS.
 - ALL NON-PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED.
- THE CONTRACTOR SHALL COMPLY WITH FEDERAL, STATE AND LOCAL REGULATORY REQUIREMENTS.
- TOPSOIL STRIPPED IN AREAS OF CONSTRUCTION THAT IS SUITABLE FOR REUSE AS LOAM SHALL BE STOCKPILED AT A LOCATION TO BE DESIGNATED BY THE OWNER. UNSUITABLE SOIL SHALL BE SEPARATED, REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION OFFSITE.

PROJECT COORDINATION

- ELM STREET IS AN ACTIVE CROSS TOWN CONNECTOR FOR VEHICLES, BICYCLES AND PEDESTRIANS. THE BRIDGE IS ALSO ADJACENT TO PUBLIC FACILITIES THAT INCLUDE THE ROYAL RIVER PARK AND THE YARMOUTH HISTORICAL SOCIETY. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A MAINTENANCE OF TRAFFIC CONTROL PLAN (TCP) IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) THAT SHALL INCLUDE PROVISIONS (FLAGGERS, SIGNAGE, NOTIFICATIONS, ETC.) FOR:
 - VEHICLE ACCESS ON ELM STREET THROUGHOUT THE PROJECT WITH THE UNDERSTANDING THAT TEMPORARY LANE CLOSURE MAY BE REQUIRED WHEN THE NEW BRIDGE IS LIFTED INTO POSITION.
 - AN ALTERNATE ROUTE FOR PEDESTRIAN TRAFFIC WHEN THE PEDESTRIAN BRIDGE IS NOT AVAILABLE IN ACCORDANCE WITH THE CHAPTER 6D. PEDESTRIAN AND WORKER SAFETY OF THE MUTCD MANUAL.
 - AN ALTERNATE ROUTE FOR BICYCLES DURING CONSTRUCTION ACTIVITY.
- THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WORK ACTIVITY WITH THE FOLLOWING TOWN STAFF, DEPARTMENT OR DESIGNATED REPRESENTATIVE.
 - TOWN ENGINEER (207) 848-2401 WILL BE THE PRIMARY CONTACT FOR ALL PROJECT SUBMITTALS INCLUDING SCHEDULING AND UPDATES FOR SITE ACTIVITY.
 - YARMOUTH SEWER DISTRICT (207) 846-2415 FOR PROTECTION OF AND ALL WORK ACTIVITY IN THE VICINITY OF THE SEWER MAIN AND PROTECTION OF THAT CROSSES AT THE BRIDGE LOCATION.
 - YARMOUTH PUBLIC SAFETY (207) 846-3333 FOR ALL ITEMS ASSOCIATED WITH TRAFFIC CONTROL AND ROAD CLOSURE ITEMS.
- THE CONTRACTOR SHALL SCHEDULE A MEETING WITH CENTRAL MAINE POWER TO REVIEW WORK ACTIVITY UNDER AND ADJACENT TO THE OVERHEAD POWER LINE ON THE PROJECT SITE AND TO DETERMINE WORK PROTOCOL AND TEMPORARY MEASURES NEEDED TO ADDRESS SITE SAFETY DURING CONSTRUCTION.

UTILITY NOTES

- NO DISRUPTION TO THE EXISTING UTILITIES ADJACENT THE PROJECT SITE SHALL BE ALLOWED DURING DEMOLITION OR CONSTRUCTION ACTIVITIES.
- ANY TEMPORARY ELECTRIC SERVICE, IF REQUIRED DURING THE DURATION OF CONSTRUCTION, IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT MAKE ANY OPENING OR EXCAVATION WITHIN THE PROJECT AREA UNTIL CONTACT HAS BEEN MADE WITH 'DIG SAFE' AND ALL UTILITIES TO LOCATE ANY EXISTING POWER, TELEPHONE, CABLE TV, WATER OR OTHER UNDERGROUND SERVICES.
- THE UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE PROVIDED AS A GUIDE TO THE CONTRACTOR. NO GUARANTEE IS MADE THAT UTILITIES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS IN THE FIELD AND BE RESPONSIBLE FOR REPAIR OF UTILITIES DISTURBED DURING CONSTRUCTION.

EROSION CONTROL NOTES

- APPLICATION OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES FOR THE PROJECT SHALL BE IN ACCORDANCE WITH PROCEDURES AND SPECIFICATIONS OF THE CURRENT MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION; BEST MANAGEMENT PRACTICES.
- SILTATION FENCE SHALL BE INSTALLED BEFORE ANY EXCAVATION TAKES PLACE.
- INSTALL EROSION CONTROL MESH ON ALL PROPOSED SLOPES 2:1 OR STEEPER, UNLESS SHOWN OR NOTED OTHERWISE.
- ALL EROSION CONTROL MEASURES, SEEDING AND MULCHING SHALL BE INSPECTED WEEKLY, AFTER RAINSTORMS AND DURING RUNOFF EVENTS. ALL MEASURES SHALL BE REPAIRED OR REPLACED WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DAMAGE.
- SEEDED AND MULCHED AREAS SHALL BE MAINTAINED UNTIL FINAL ACCEPTANCE OF THE WORK
- TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED UPON COMPLETION OF GRADING OPERATIONS AND ESTABLISHMENT OF ACCEPTABLE GROUND COVER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES DURING CONSTRUCTION

DEMOLITION NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF ALL MATERIALS FROM THE EXISTING BRIDGE, INCLUDING, BUT NOT LIMITED TO: TIMBER SUPERSTRUCTURE, TIMBER PIERS, STEEL HARDWARE
- DISPOSAL SHALL BE AT AN APPROVED FACILITY. TREATED LUMBER SHALL BE DISPOSED OF IN COMPLIANCE WITH MAINE DEP REQUIREMENTS.

BRIDGE SPECIFICATIONS

- AASHTO LRFD GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES.
- AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
- MAINE DOT BRIDGE DESIGN GUIDE.

DESIGN LOADING

- VEHICLE LOAD: AASHTO H-5 (NO DYNAMIC ALLOWANCE HAS BEEN INCLUDED)
- PEDESTRIAN LOAD: 90PSF UNIFORM

STRUCTURAL NOTES

CAST-IN-PLACE CONCRETE

- MIX DESIGN:
 - MDOT CLASS A: F_c = 4,350 PSI
- MINIMUM COVER TO REINFORCEMENT = 3"
- REINFORCING STEEL:
 - ASTM A615 GRADE 60; F_y = 60,000 PSI
- PROVIDE SIKAGARD 670W CLEAR OR EQUIV. PROTECTIVE COATING TO CONCRETE SURFACES PER THE LIMITS SHOWN ON SHEET S-3.

PRE-ENGINEERED TRUSS BRIDGE

- ALL METAL ITEMS TO BE A36 STEEL, HOT-DIP GALVANIZED AFTER FABRICATION UNLESS OTHERWISE NOTED.
- ALL FASTENERS SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
- BRIDGE BEARINGS SHALL BE FIXED ON ONE ABUTMENT AND DESIGNED TO ACCOMMODATE LINEAR EXPANSION AND CONSTRUCTION AT THE OTHER ABUTMENT.
- ALL METAL ITEMS TO BE A36 STEEL, HOT-DIP GALVANIZED AFTER FABRICATION UNLESS OTHERWISE NOTED.
- ALL FASTENERS SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
- ALL BOLTS SHALL CONFORM TO ASTM A-307. MINIMUM SIZE SHALL BE ½" DIA. UNLESS OTHERWISE NOTED. ALL BOLTS TO BE HEAVY HEX UNLESS OTHERWISE NOTED.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F-1554 AND SHALL BE GRADE 36.

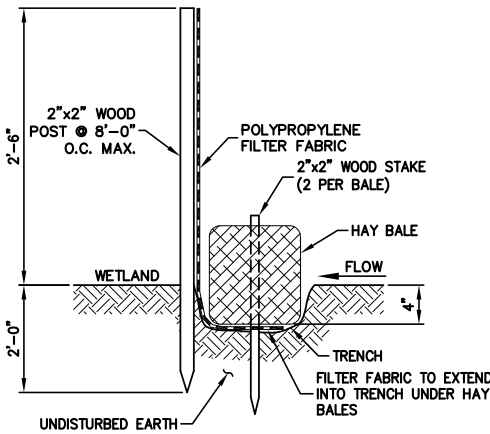
TIMBER STRUCTURAL MEMBERS

- REFER TO TIMBER SCHEDULE ON SHEET C-4.
- ALL EXPOSED EDGES SHALL BE PLANED OR SANDED TO PROVIDE SMOOTH SURFACE FREE OF ROUGH EDGES OR DEFECTS.
- ALL EXPOSED FASTENERS SHALL BE COUNTERSUNK ON WALKING SURFACE, AND PEDESTRIAN HANDRAIL.

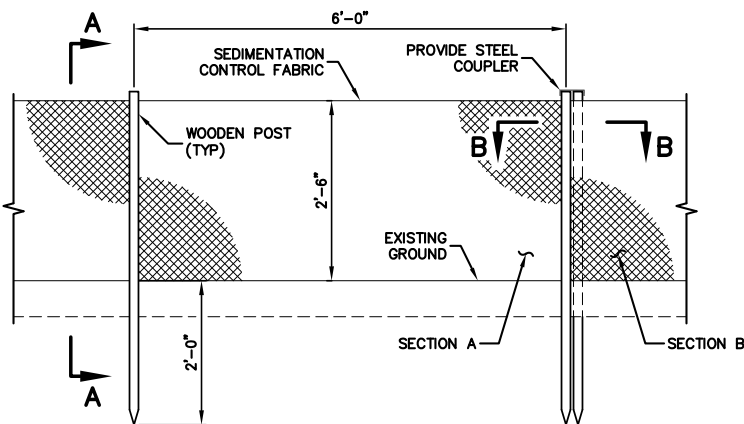
SURVEY & DATUM NOTES

- BASE SURVEY, TOPOGRAPHY, SITE DATUM CONTROL, AND PROJECT BENCHMARKS ARE FROM A FIELD SURVEY WITH DOCUMENTING PLAN ENTITLED 'PLAN OF FORGE STREAM BRIDGE, NO. FB24/SDR24' BY ROYAL RIVER SURVEY COMPANY, DATED 12/14/2000.
- ALL TOPOGRAPHIC INFORMATION PROVIDED IS REFERENCED TO NAVD88 VERTICAL DATUM UNLESS OTHERWISE NOTED.

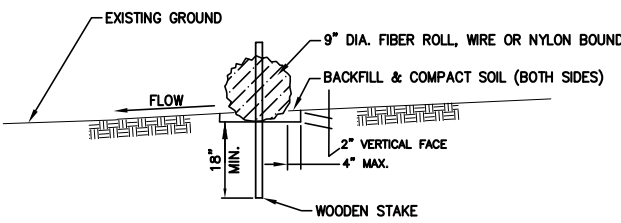
PROJECT ELEVATIONS		
WATER ELEVATION	NAVD88 (ft)	Notes
0.2% Annual Chance (500-yr)	77.6	BASED ON FEMA 2018 FIS 23005CV003A, FOR ROYAL RIVER (DOWNSTREAM), TRANSECT J
1% Annual Chance (100-yr)	76.4	
2% Annual Chance (50-yr)	75.4	
10% Annual Chance (10-yr)	74.0	



EROSION CONTROL FENCE DETAIL
NOT TO SCALE

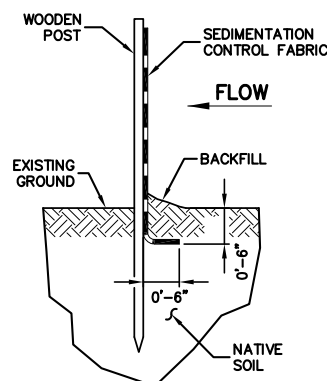


SILTATION FENCE DETAIL
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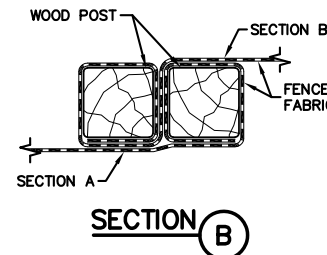


SECTION C

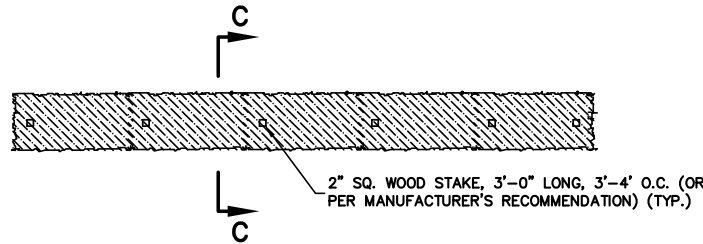
EROSION CONTROL BARRIER FIBER ROLL DETAIL
NOT TO SCALE



SECTION A



SECTION B



NOTE: AREAS DISTURBED BY EROSION BARRIERS SHALL BE STABILIZED AFTER REMOVAL.

BAKER DESIGN CONSULTANTS
Civil, Marine, and Structural Engineering
7 Spruce Road • Freeport • Maine • 04032 • 207-846-9724 • info@bakerdesignconsultants.com

PROJECT BID	3.3.19	B/B
PS&E SET	01.03.19	B/B
90% DESIGN	9.7.18	D/B
PRELIMINARY REVIEW	6.5.18	D/B
SUBMISSION	DATE	INT.

DESIGNED BY:	DUB
DRAWN BY:	DAP
CHECKED BY:	B/B
SCALE:	AS SHOWN

SHEET TITLE:

NOTES & SCHEDULES

PROJECT:

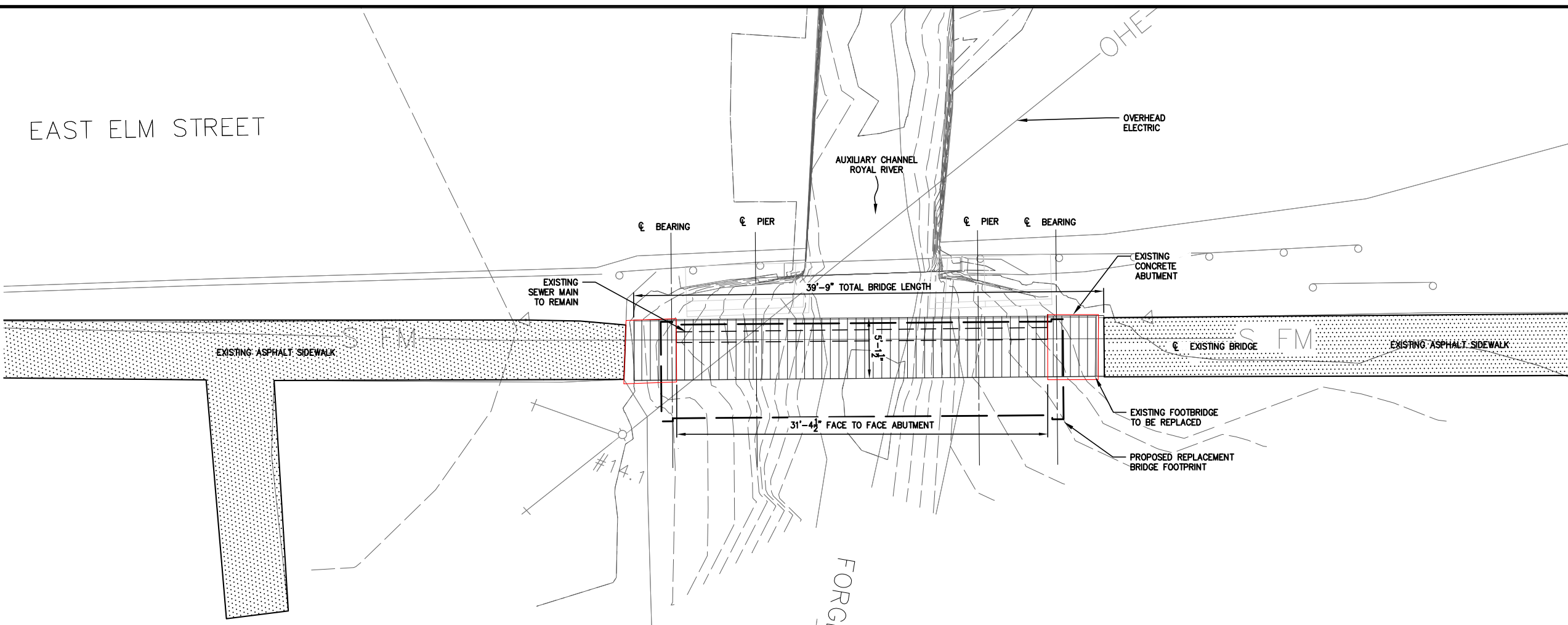
EAST ELM STREET FOOTBRIDGE

TOWN OF YARMOUTH, ME

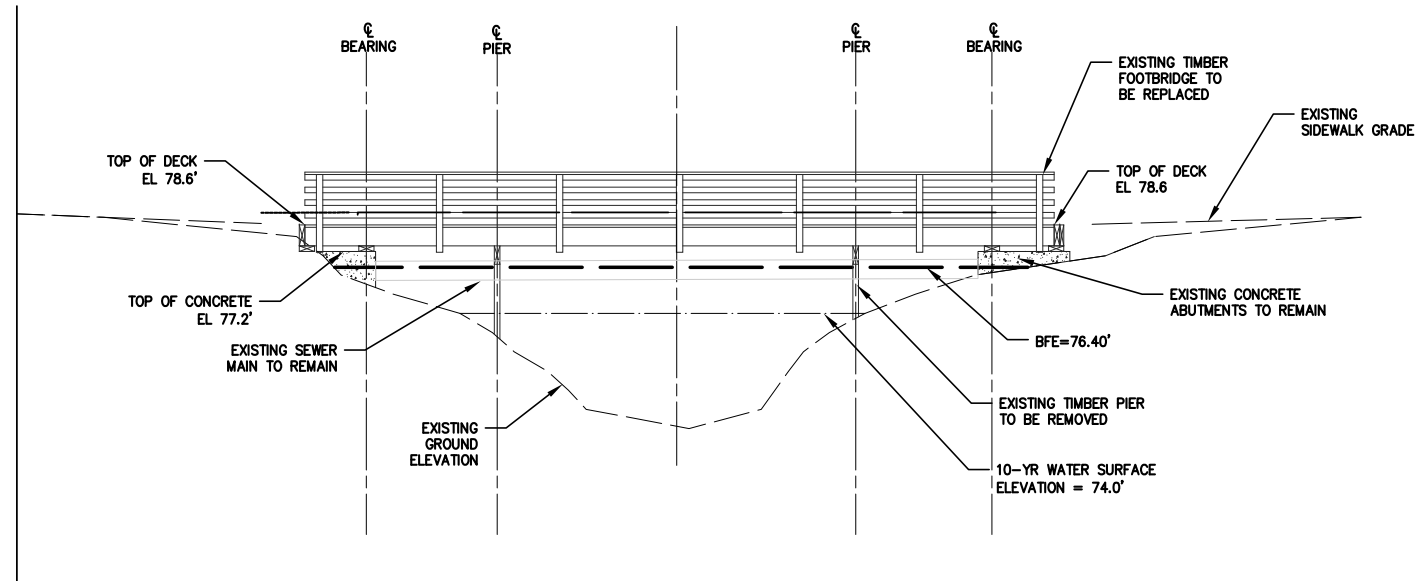
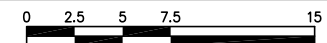
DATE	JANUARY 2019
CONTRACT NO.	17-29
SHEET NO.	G-2
REV.	D

x:\17\17-29 east elm street ped bridge repair, yarmouth\cad\17-29 east elm st.yarmouth civil 3d.dwg 3/5/2019

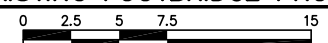
EAST ELM STREET



EXISTING FOOTBRIDGE PLAN



EXISTING FOOTBRIDGE PROFILE



NOTES:
1. REFER TO SHEET G-2 FOR SURVEY NOTES.

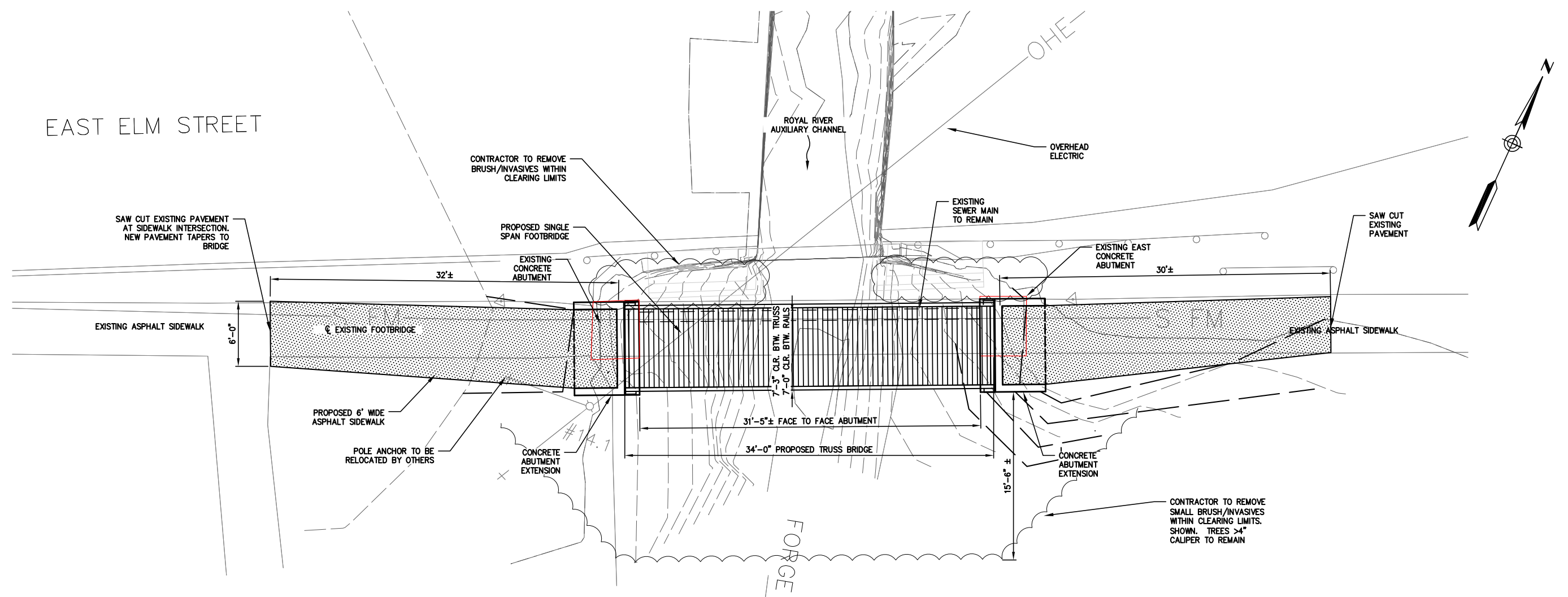
PROJECT TITLE: EXISTING BRIDGE PLAN & PROFILE		DESIGNED BY: DJB	DATE JAN 2019
PROJECT: EAST ELM STREET FOOTBRIDGE TOWN OF YARMOUTH, ME		DRAWN BY: DAP	CONTRACT NO. 17-29
SHEET NO. C-1		CHECKED BY: BUB	REV. D
SCALE: AS SHOWN		DATE JAN 2019	

STATE OF MAINE
BARNEY J. BAKER
No. 5737
LICENSED PROFESSIONAL ENGINEER

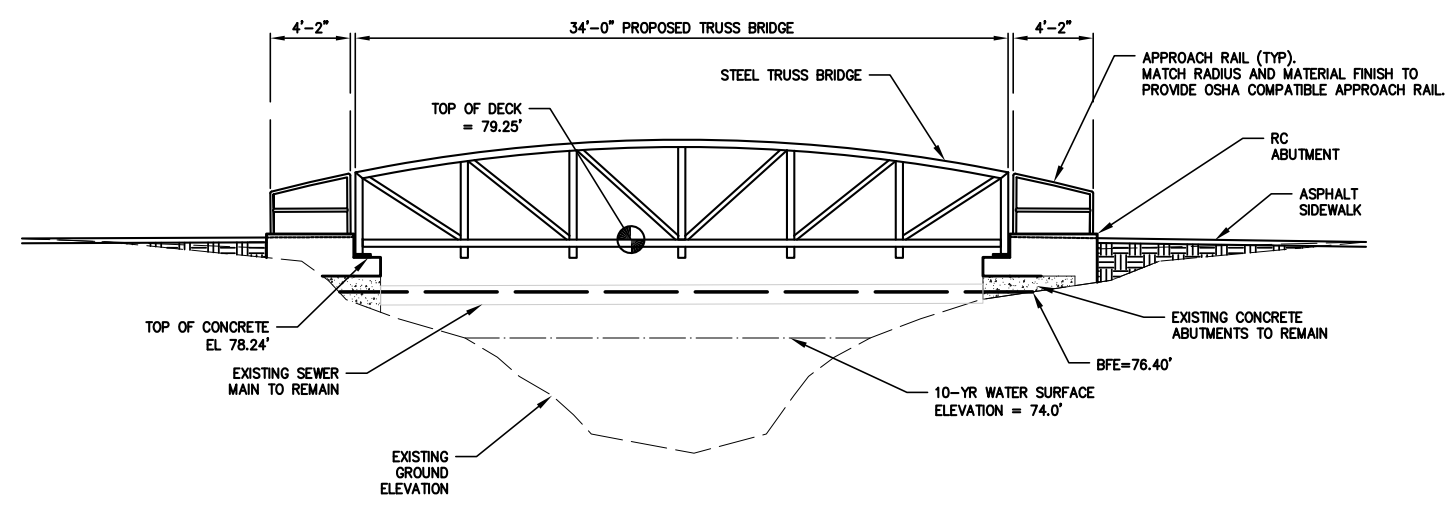
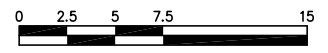
NO.	DESCRIPTION	DATE	INT.
D	PROJECT BID	3.3.19	B/B
C	PS&E SET	1.3.19	B/B
B	90% DESIGN	9.7.18	D/B
A	PRELIMINARY DESIGN	5.20.18	D/B
	SUBMISSION		

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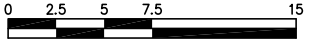
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PROPOSED FOOTBRIDGE PLAN



PROPOSED FOOTBRIDGE PROFILE



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PROGRESS BID	D	3.3.19	B/B
PS&E SET	C	1.3.19	B/B
90% DESIGN	B	9.7.18	D/B
PRELIMINARY DESIGN	A	5.24.18	D/B
SUBMISSION	NO.	DATE	INT.

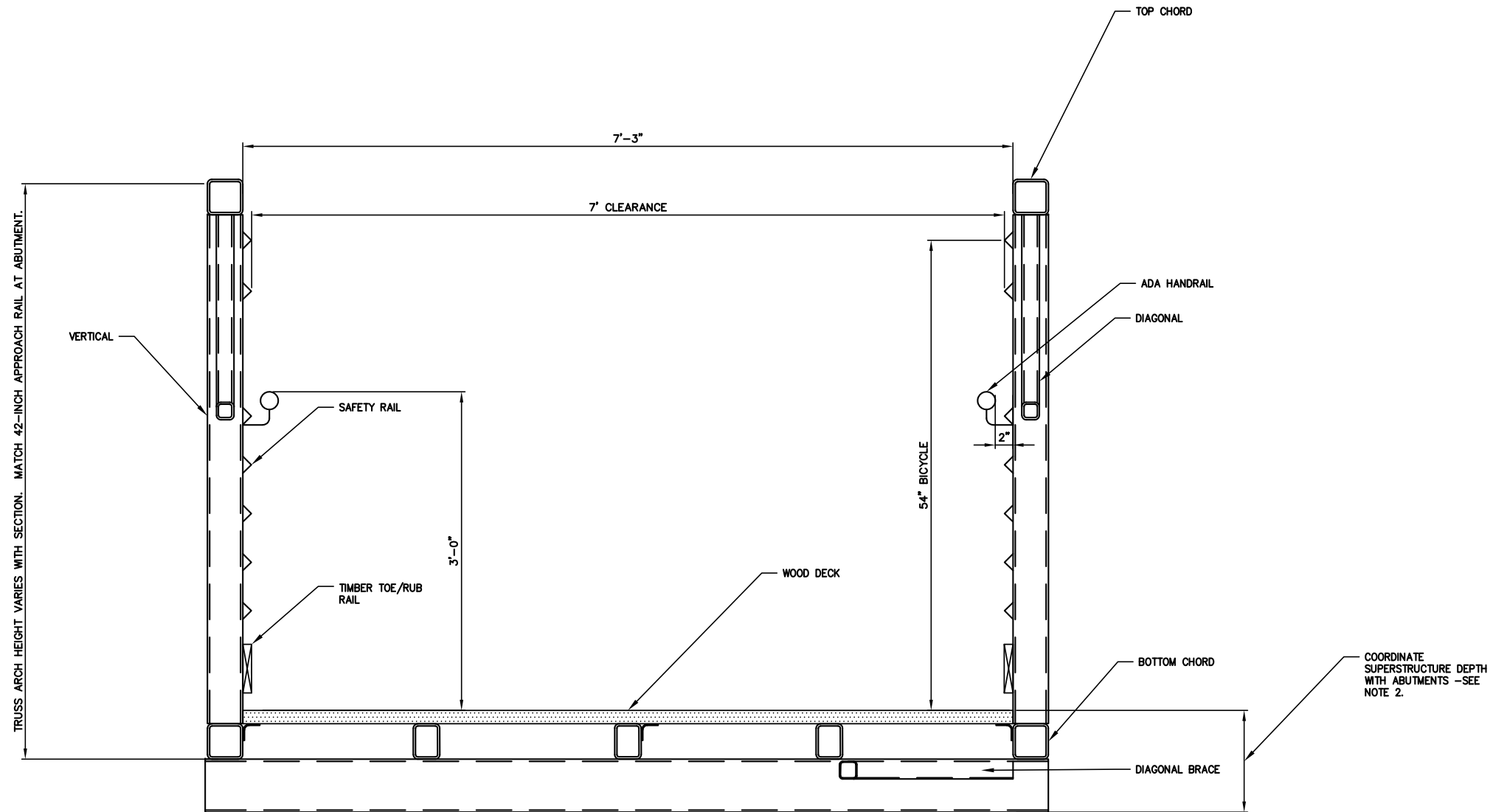
DESIGNED BY: DJB
DRAWN BY: DAP
CHECKED BY: BJB
SCALE: AS SHOWN

SHEET TITLE: PROPOSED BRIDGE PLAN & PROFILE

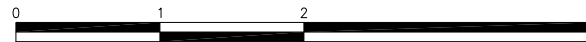
PROJECT: EAST ELM STREET FOOTBRIDGE
TOWN OF YARMOUTH, ME

DATE: JAN 2019
CONTRACT NO.: 17-29

SHEET NO. C-2
REV. D



PROPOSED BRIDGE –TYPICAL SECTION



PREFABRICATED BRIDGE NOTES:

1. REFER TO PREFABRICATED BRIDGE SPECIFICATION APPENDED TO PROJECT MANUAL FOR MATERIAL AND DESIGN REQUIREMENTS.
2. ABUTMENT CONCRETE DIMENSIONS AND SEAT ELEVATION MAY BE ADJUSTED TO ACCOMMODATE CLEARANCE REQUIREMENTS FOR BRIDGE BOTTOM CHORD AND BEARINGS AT NO COST TO THE TOWN. SIDEWALK APPROACH AND BRIDGE DECK ELEVATIONS MAY NOT BE CHANGED.

	D	PROJECT BID	3.3.19	BUB
	C	PS&E SET	01.03.18	BUB
	B	90% DESIGN	9.7.18	DJB
	A	PRELIMINARY REVIEW	6.5.18	DJB
NO.		SUBMISSION	DATE	INT.

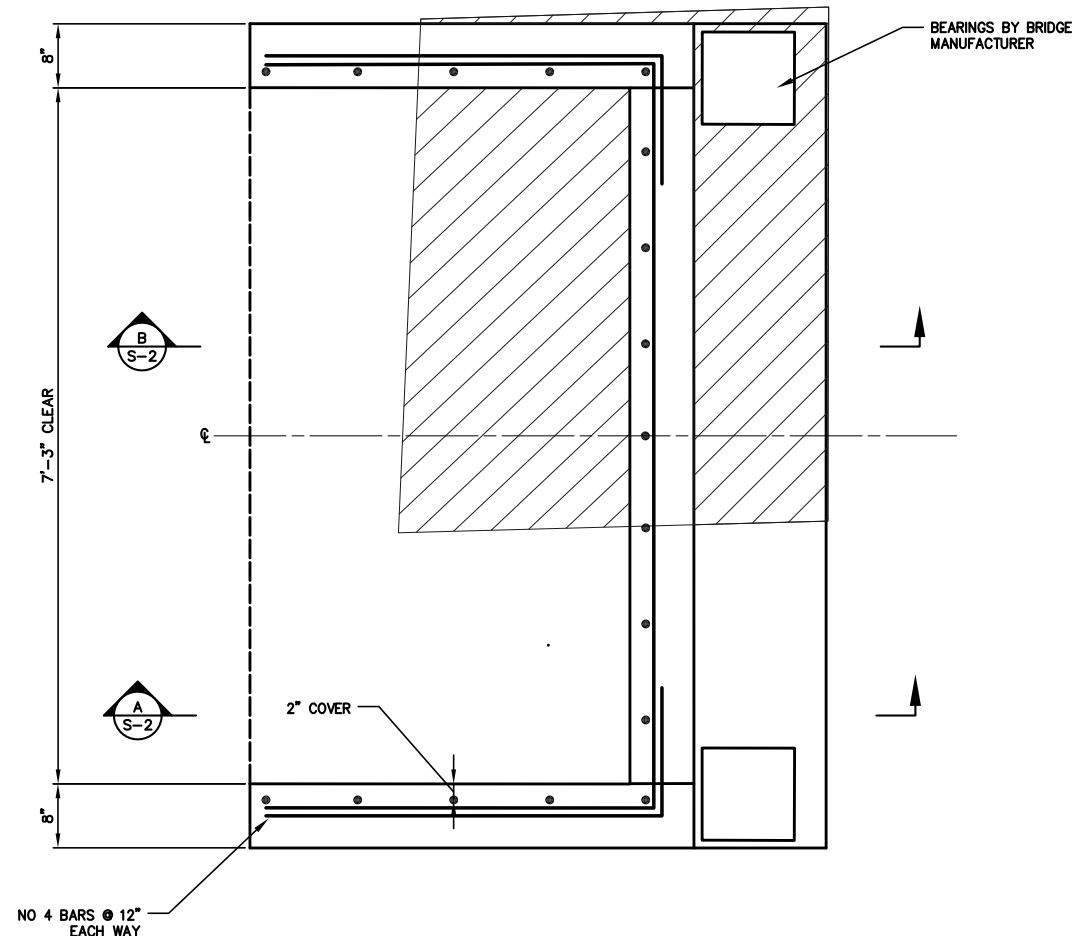
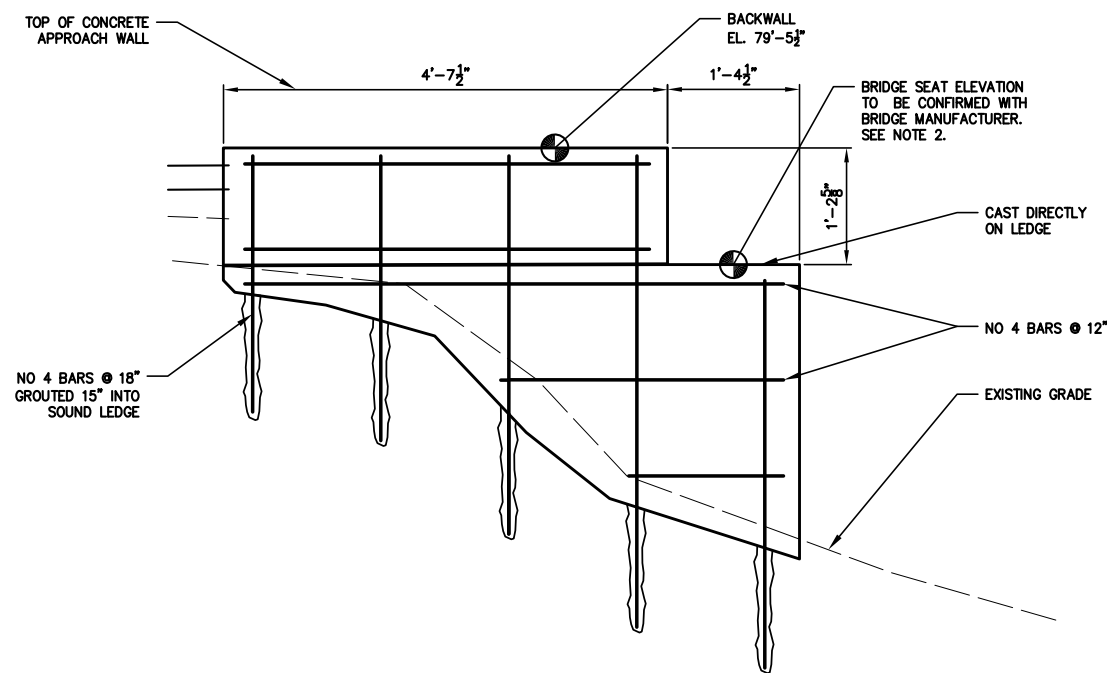


DESIGNED BY:	DJB
DRAWN BY:	DAP
CHECKED BY:	DJB
SCALE:	AS SHOWN

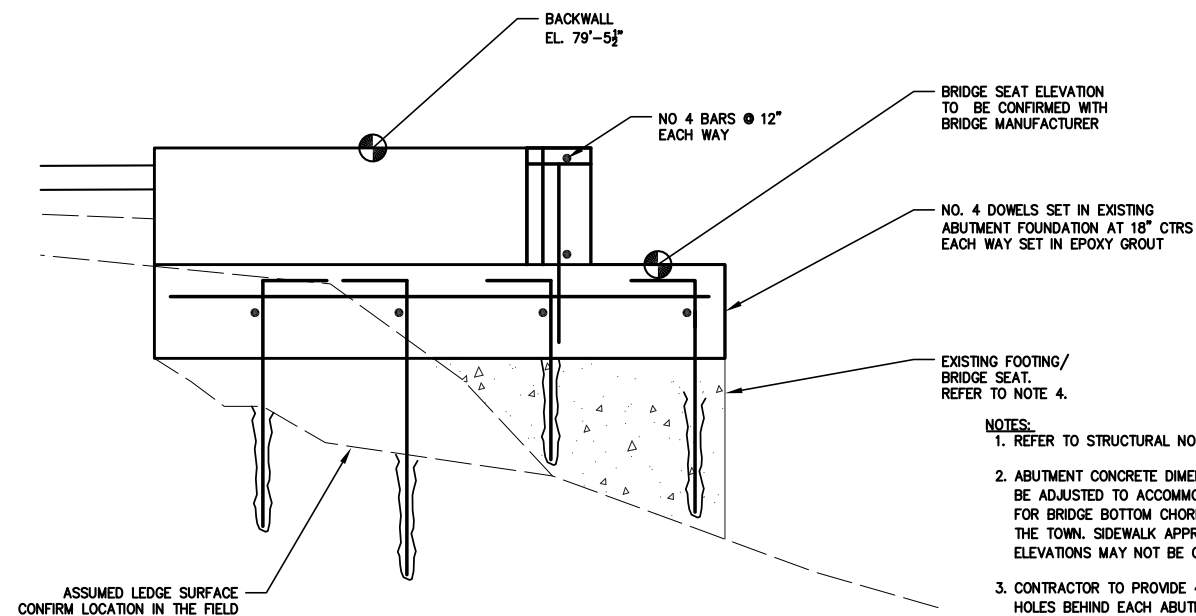
SHEET TITLE:	TYPICAL BRIDGE SECTION
PROJECT:	EAST ELM STREET FOOTBRIDGE TOWN OF YARMOUTH, ME

DATE JANUARY 2019	
CONTRACT NO. 17-29	
SHEET NO. S-1	REV. D

Category	0	0.5	1	1.5	3
No	~2.8	~2.5	~2.2	~2.0	~1.8
Yes	~1.8	~2.5	~2.2	~2.0	~1.8
Don't know	~1.8	~1.5	~2.2	~2.0	~1.8
No answer	~1.8	~1.5	~2.2	~2.0	~1.8



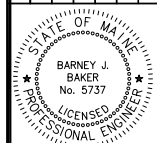
Age Group	Total (%)	Male (%)	Female (%)	Unknown (%)
0-14	0.15	0.10	0.05	0.00
15-24	0.25	0.15	0.10	0.00
25-34	0.35	0.20	0.15	0.00
35-44	0.45	0.25	0.20	0.00
45-54	0.55	0.30	0.25	0.00
55-64	0.65	0.35	0.30	0.00
65-74	0.75	0.40	0.35	0.00
75+	0.85	0.45	0.40	0.00



Age Group	No (%)	Yes (%)	Don't know (%)	Refuse to answer (%)
0	~45	~35	~15	~5
0.5	~35	~45	~15	~5
1	~25	~55	~15	~5
1.5	~15	~65	~15	~5

- NOTES:
1. REFER TO STRUCTURAL NOTES ON SHEET G-2.
 2. ABUTMENT CONCRETE DIMENSIONS AND SEAT ELEVATION MAY BE ADJUSTED TO ACCOMMODATE CLEARANCE REQUIREMENTS FOR BRIDGE BOTTOM CHORD AND BEARINGS AT NO COST TO THE TOWN. SIDEWALK APPROACH AND BRIDGE DECK ELEVATIONS MAY NOT BE CHANGED.
 3. CONTRACTOR TO PROVIDE 4-INCH UNDERDRAIN AND WEEP HOLES BEHIND EACH ABUTMENT TO CONTROL DRAINAGE. DETAIL TO BE CONFIRMED WITH ENGINEER AFTER INSPECTION OF FIELD CONDITIONS.
 4. EXISTING CONCRETE ABUTMENT MAY BE RETAINED TO AVOID IMPACTING EXISTING SEWER MAIN. ABRASE, CLEAN AND SCARIFY TO SOUND SUBSTRATE. PRIOR TO PLACEMENT OF NEW CONCRETE. APPLY NEAT CEMENT AND WATER TO SURFACE TO PROVIDE A BOND WITH THE NEW CONCRETE.

D	PROGRESS BID	3.3.19	BUB	
C	P&E SET	01.03.19	BUB	
B	90% DESIGN	9.7.18	DJB	
A	PRELIMINARY REVIEW SUBMISSION	6.5.18	DJB	
NO.		DATE	INT.	



DESIGNED BY:	DJB
DRAWN BY:	DAP
CHECKED BY:	DJB
SCALE:	AS SHOWN

SHEET TITLE: **ABUTMENT DETAILS**

PROJECT: **EAST ELM STREET FOOTBRIDGE**
TOWN OF YARMOUTH, ME

DATE JANUARY 2019	
CONTRACT NO. 17-29	
SHEET NO. S-2	REV. D