

401 Water Quality Certificate

August 2020



MASSDOT PROJECT NO. 608079
BRIDGE S-09-003
MASKWONICUT ST. BRIDGE
REPLACEMENT

PREPARED FOR:
MASSACHUSETTS DEPARTMENT OF
TRANSPORTATION

SUBMITTED TO:
Massachusetts Department of Environmental



**MassDOT – Sharon
WSE Project No. 2150851**

August 17, 2020

MassDEP Southeast Region Main Office
Division of Wetlands and Waterways
20 Riverside Drive
Lakeville, MA 02347

**RE: Water Quality Certification Application
MassDOT Project No. 608079
Bridge S-09-003, Maskwonicut Street Bridge Replacement
Sharon, Massachusetts**

To whom it may concern:

On behalf of the Massachusetts Department of Transportation (MassDOT), Weston & Sampson is hereby enclosing two (2) copies of the Water Quality Minor Project Certification Application (BRP WW 11), as required per 314 CMR 9.04 (11) of the regulations (314 CMR 9.00) promulgated under the Massachusetts Clean Waters Act, M.G.L. Chapter 21, Section 26 through and including 53.

The existing Maskwonicut Street Bridge (Bridge No. S-09-003) over the Amtrak/MBTA railroad is presently out of service. The previous existing wooden bridge superstructure caught fire from arching of the overhead catenary system in 2014 and was removed. The existing stone masonry abutments currently remain. The proposed bridge replacement consists of a new 54'-6" span steel girder bridge with a concrete deck and new full height concrete abutments.

It is the interpretation of the MassDOT that this project, as a bridge replacement project, qualifies under the bridge exemption legislation. As such, the project is exempt from the following Massachusetts General Laws, including:

- Chapter 30 (MEPA)
- Section 40 of Chapter 131 (Massachusetts Wetlands Protection Act, and
- Chapter 91 (Massachusetts Public Waterfront Act.

The bridge exemption does not include filing for a 401 Water Quality Certificate (WQC). While project impacts do not trigger a 401 WQC, it is the policy of MassDOT to submit for a 401 WQC even if impact triggers are not met.

Based on this information, MassDOT is requesting that this Water Quality Minor Project Certification Application (BRP 11) be reviewed to determine if it meets all requirements under the Massachusetts Clean Waters Act.


As part of the filing, we have attached the following:

- Appendix A: Project Description
- Appendix B: Alternatives Analysis
- Appendix C: Site Maps
- Appendix D: Site Plans
- Appendix E: Public Notice

If you have any questions or desire additional information, please do not hesitate to call me at (978)-532-1900.

Very truly yours,

WESTON & SAMPSON ENGINEERS, INC.

A handwritten signature in black ink that reads "Mel Higgins". The signature is written in a cursive, flowing style.

Mel Higgins, PWS
Senior Environmental Scientist



Enter your transmittal number

X286538
Transmittal Number

Your unique Transmittal Number can be accessed online:
<http://www.mass.gov/eea/agencies/massdep/service/approvals/transmittal-form-for-payment.html>

Massachusetts Department of Environmental Protection Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: MassDEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

Copy 1 - the original must accompany your permit application. **Copy 2** must accompany your fee payment. **Copy 3** should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

MassDEP
P.O. Box 4062
Boston, MA
02211

*** Note:**
For BWSC Permits, enter the LSP.

A. Permit Information

1. Permit Code: 4 to 7 character code from permit instructions
bridge replacement

2. Name of Permit Category

3. Type of Project or Activity

B. Applicant Information – Firm or Individual

Massachusetts Department of Transportation

1. Name of Firm - Or, if party needing this approval is an individual enter name below:

2. Last Name of Individual

3. First Name of Individual

4. MI

5. Street Address

6. City/Town

7. State

8. Zip Code

9. Telephone #

10. Ext. #

11. Contact Person

12. e-mail address

C. Facility, Site or Individual Requiring Approval

Maskwonicut Street Bridge

1. Name of Facility, Site Or Individual

Maskwonicut Street

2. Street Address

Sharon

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

8. DEP Facility Number (if Known)

9. Federal I.D. Number (if Known)

10. BWSC Tracking # (if Known)

D. Application Prepared by (if different from Section B)*

1. Name of Firm Or Individual

2. Address

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

8. Contact Person

9. LSP Number (BWSC Permits only)

E. Permit - Project Coordination

1. Is this project subject to MEPA review? yes no
If yes, enter the project's EOE file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

EOEA File Number

F. Amount Due

Special Provisions:

- Fee Exempt (city, town or municipal housing authority)(state agency if fee is \$100 or less).
There are no fee exemptions for BWSC permits, regardless of applicant status.
- Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
- Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
- Homeowner (according to 310 CMR 4.02).

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

????

Check Number

????

Dollar Amount

????

Date



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection – Wetlands and Waterways
BRP WW 10 Major Project Certification
BRP WW 11 Minor Project Certification
 401 water Quality Certification for Fill and excavation
 Projects in waters and Wetlands

X286538
 Transmittal Number # _____

A. Applicant Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Which permit category are you applying for?

- BRP WW 10 BRP WW 11

2. Applicant/Owner:

MassDOT
 Name

Address

City/Town

State

Zip Code

Contact Person

Telephone (home)

(work)

3. Authorized Agent

Name

Address

City/Town

State

Zip Code

Contact Person

Telephone (home)

(work)



Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Wetlands and Waterways
BRP WW 10 Major Project Certification
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X286538
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B. Project Information

1. Project Location:

Address

Sharon

MA

City/Town

State

Zip Code

Beaver Brook

Nearest or Adjacent Waterbody

2. Project Name (if any):

3. a. Describe project purpose:

b. Is the project

water-dependent

non water-dependent



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B. Project Information (cont.)

4. a. provide a brief description of the proposed project (See Application Instructions and include a copy of the Notice of intent, if any.):

See Appendix A for additional information.

b. Notice of Intent File number (if any): not required per MassDOT bridge exemption

5. Identify the loss in square feet of each type of resource area (see Application Instructions for additional information.):

a. Bordering vegetated wetland:	<u>0</u> square feet
b. Isolated vegetated wetland:	<u>0</u> square feet
c. Land under water:	<u>0</u> square feet
d. Total cumulative loss of a. + b. + c.:	<u>0</u> square feet
e. Salt marsh:	<u>0</u> square feet

6. a. Will the proposed project occur in any wetlands or waters designated as “Outstanding Resource Waters”?

Yes No

If yes has public notice been published in the Environmental Monitor?

Yes No

Date of Publication _____

b. Is this project a subdivision or any part of a subdivision? Yes No

c. Is the project categorically subject to MEPA? Yes No

If yes, has final action been taken? Yes No

If yes, please include copy of MEPA certificate.



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B. Project information (cont.)

7. Alternatives Analysis:

As related to the project purpose, attach a detailed description of alternatives to the proposed project that were considered and why none are available that avoid adverse impacts to wetlands and waters.

If no alternatives are available, describe how the activity will minimize or mitigate the adverse impacts to wetlands and waters.

See application instructions for information required. Attach required documentation.

C. Additional Information

1. Is any of your proposed work exempt from the Massachusetts Wetlands Protection Act or taking place in a federal non-state wetland?

Yes No

If yes, see Application Instructions for additional information needed.

2. Public notice to a newspaper of general circulation within the area of the proposed activity must be published within 10 days of the date of this application. Is proof of public notice submitted?

Yes No

(See Application Instructions for additional information)

D. Certification

Application is hereby made for water quality certification.

"I certify that I am familiar with the work proposed and that to the best of my knowledge and belief the information contained in this application is true, complete, and accurate"

 Applicant's Signature

 Print name

 Agent's Signature

 Print Name

 Date

PROJECT DESCRIPTION

401 WQC Permitting Discussion

It is the interpretation of the MassDOT that this project, as a bridge replacement project, qualifies under the bridge exemption legislation. As such, the project is exempt from the following Massachusetts General Laws, including:

- Chapter 30 (MEPA)
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The bridge exemption does not include filing for a 401 Water Quality Certificate (WQC). While project impacts do not trigger a 401 WQC, it is the policy of MassDOT to submit for a 401 WQC even if impact triggers are not met.

Existing Conditions

The existing Maskwonicut Street Bridge (Bridge No. S-09-003) over the Amtrak/MBTA railroad is presently out of service. The previous existing wooden bridge superstructure caught fire from arching of the overhead catenary system in 2014 and was removed. The existing stone masonry abutments currently remain.

Proposed Work

The proposed bridge replacement consists of a new 54'-6" span steel girder bridge with a concrete deck and new full height concrete abutments. The previously existing minimum vertical clearance was 19'-3". The proposed minimum vertical clearance is 19'-10". The increase in the proposed vertical clearance is being achieved by raising the profile of the roadway approximately 3'-0". This also requires the installation of concrete moment slab/barriers along the top of the existing west wingwalls beyond the new abutments.

The existing stone masonry east abutment and wingwalls will be removed in their entirety. The existing stone masonry west abutment will be removed in its entirety and a portion of the west wingwalls will be removed while the majority of the west wingwalls and stone masonry arch over Beaver Brook will remain. The existing horizontal clearance from the centerline of track to the existing abutments is approximately 7'-0". The proposed horizontal clearance will be 18'-7-3/4".

The proposed bridge will have an overall width of 34'-9". It will carry two 10'-0" wide travel lanes with a 2'-0" and a 4'-0" shoulder with a 6'-0" sidewalk on the north side of the bridge. Standard MassDOT CP-PL2 bridge railings will be used and will have an ornamental railing with electrification barrier on top.

The proposed bridge will carry a 12" storm drain, 8" water main, and communication and electric conduits within the bays of the steel girders. The storm drain and the water main will be installed within a steel casing pipe. The existing overhead utilities will be temporarily relocated to the north side of the bridge for construction of the new bridge.

The overhead wires will be then be buried within the project limits in underground duct banks.

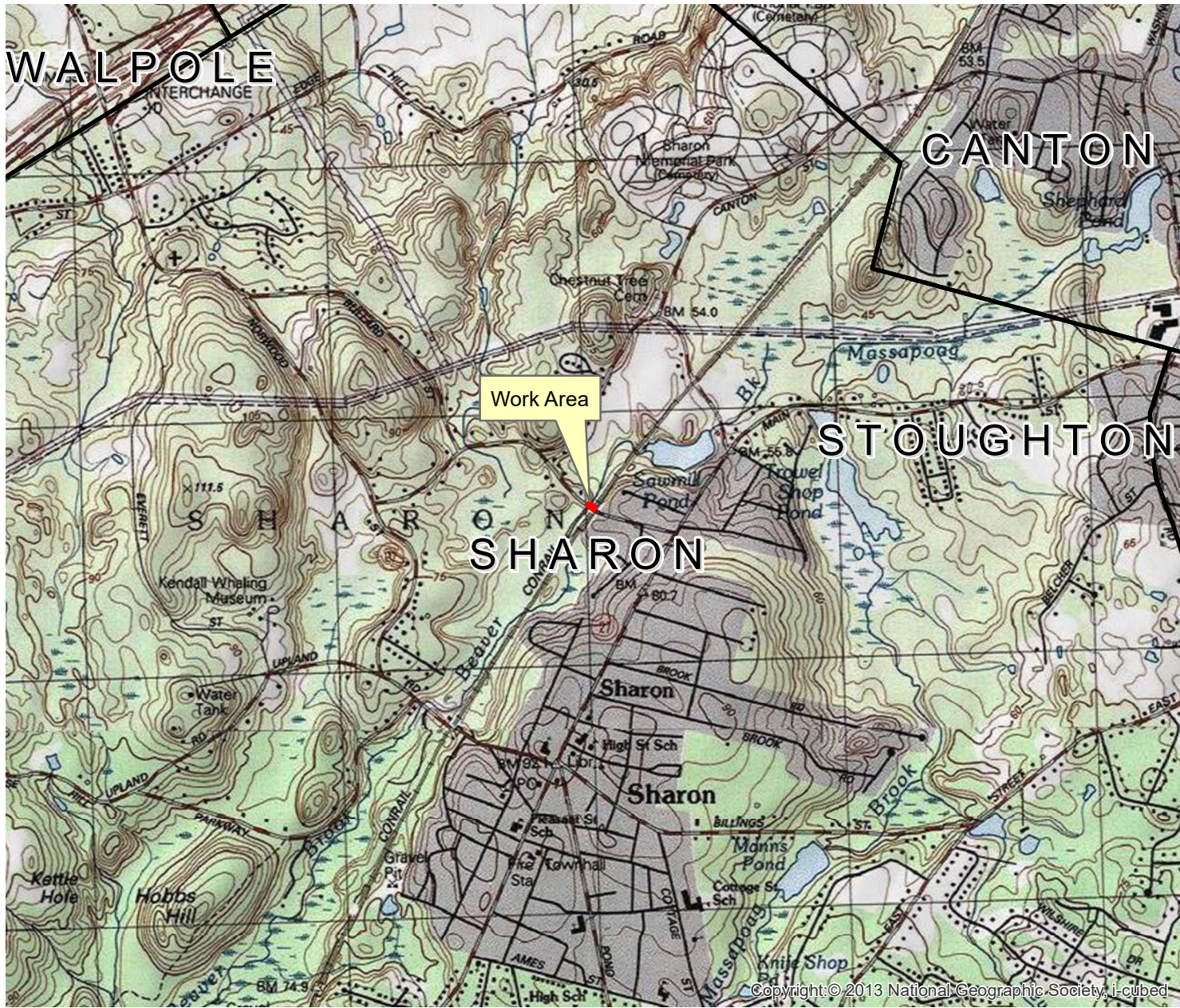
The temporary and permanent earth supports as well as temporary shielding will be installed prior to the demolition of the existing east and west abutments. The installation of the permanent earth support and temporary shielding will need to be constructed during night-time rail outages or during weekend outages to minimize train disruptions.

The inside of the masonry culvert, through which Beaver Brook flows, will be repointed. This work will be done by hand while standing in the brook. Flow diversion will not be required for this work.

401 WQC Jurisdiction Discussion

While technically there will be a person standing in 401 WQC jurisdictional area (Beaver Brook), the Brook itself will not be impacted. As noted above, the only work occurring “in the brook” will be repointing of the masonry culvert. No work will occur below ordinary high water. Work will only occur above the ordinary high water. Stream diversion will not be required for this work as the worker will be able to do this work while standing in the flowing brook.

No work will occur within bordering or isolated vegetated wetlands.



-  Work Area
-  MA Towns

FIGURE 1

Maskwonicut St. Bridge
Sharon, MA

Locus Map















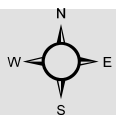
-  Work Area
-  Perennial Stream
-  Intermittent Stream
-  DEP Wetlands
- ACECs**
-  ACECs
- NHESP Habitats**
-  NHESP Estimated Habitats of Rare Wildlife
-  NHESP Priority Habitats of Rare Species
-  NHESP Certified Vernal Pools
-  NHESP Potential Vernal Pools
- Outstanding Resource Waters**
-  Public Water Supply Contributor
-  ORW for ACEC
-  ORW for both Water Supply and Other

FIGURE 2
Maskwonicut St. Bridge
Sharon, MA

Environmental
Resource Map



Data Source: Office of Geographic and Environmental Information (MassGIS),
Commonwealth of Massachusetts Executive Office of Environmental Affairs

Site Plans

(see attached rolled plans)

Public Notice

Pursuant to 33 U.S.C. 1341 and M.G.L.c. 21, Sections 26-53, notice is given of a 401 Water Quality Certification application for **bridge replacement, by the Massachusetts Department of Transportation, 10 Park Plaza, Boston, MA. Work will on Maskwonicut Street in Sharon, MA.** Additional information may be obtained from the Applicant's Representative, **Mel Higgins of Weston & Sampson, at 978-532-1900.**

Written comments should be sent within twenty one days of this notice to:

MA Department of Environmental Protection
Division of Wetlands and Waterways
Southeast Regional Office
20 Riverside Drive
Lakeville, MA 02347

Any group of ten persons, any aggrieved person, or any governmental body or private organization with a mandate to protect the environment who submits written comments may appeal the Department's Certification. Failure to submit written comments before the end of the public comment period may result in the waiver of any right to an adjudicatory hearing.