



**TOWN OF
MONTAGUE
MASSACHUSETTS**

TOWN HALL
One Avenue A
Turners Falls, MA 01376

Planning Department
(413) 863-3200 ext. 112
Planner@montague-ma.gov

MEMORANDUM

TO: Conservation Commission
FROM: Town Planner/Conservation Agent Maureen Pollock on behalf of DPW Superintendent Thomas Bergeron
RE: NOI #2019-02/DEP #229-0254 – Request Extension Permit for Orders of Conditions, filed by the Town of Montague, “Montague City Road Drainage Improvement Project”, Montague City Road Public Right-of-Way; And Project Update
DATE: September 14, 2023

Project Update:

As discussed and approved by the Conservation Commission at its April 12, 2023 meeting, the revised scope of work is to only occur on the Montague City Road public right-of-way. No work or temporary activity will occur on the former Pan AM Railways parcel as previously detailed. The revised project proposes less removal of accumulated sediment and debris from the stream channel and adjacent wetlands. The scope of the two new catch basins within the Montague City Road public right-of-way will remain per the original Plan and will be connected to the existing drain system within outfall to the stream down gradient from the low point in the roadway. This will allow the stream to connect to its original floodplain and restore the flood storage capacity of the wetlands. All impacts to water of the U.S. are temporary, and disturbed areas within the limit of work will be restored following construction.

Revised project will impact:

Bank: 1,830 linear feet (LF) (reduced from 2,758 LF in 2019 OOC)

Bordering Vegetated Wetlands: 8,999 sf

Total Limit of Work within Riverfront: 17,516 sf (entire project limits)

Land Under Water: 3,615 sf (reduced from 8,756 sf in 2019 OOC)

The project will include dredging 275 cubic yards (cy) of sediment from the stream and adjacent wetlands and 225 cy of fill of Land Under Water.

Since the Conservation Commission’s April 13, 2023 meeting, the only minor change reflected on the July 19, 2023 Plan compared to the January 2023 Plan is that the previously reported “Temporary Disturbance Area” highlighted in color yellow and within the resource area impact table has been removed. As part of the MassDEP Water Quality Certification review, MassDEP asked for this to be removed.

The following permits have been issued:

- Approved Order of Conditions, issuance date of July 11, 2019;

- Approved Water Quality Certification with conditions from MassDEP, dated July 20, 2023;
- Approved General Permit with conditions from the U.S. Army Corps of Engineers, dated July 27, 2023;

Request to Extend the Permit:

The existing Order of Conditions for the Montague City Road Drainage Improvement was approved on July 11, 2019. This permit would have expired on July 22, 2022, but due to the COVID-19 emergency order, was tolled, and it will now expire on 10/16/2023.

Davenport Trucking was scheduled to start work in July 2023 but due to the extremely wet conditions caused by multiple recent heavy rain events, Davenport Trucking has informed the Town of Montague that they cannot start work until the project area dries up. Davenport Trucking and the Town of Montague hope to have a dry stretch this fall 2023 so work can commence.

Since it is unclear when work will be able to start, the Montague Department of Public Works respectfully request to extend this permit for 3 years.

From: [Lawrence Rusiecki](#)
To: [Maureen Pollock](#)
Cc: [Assistant Town Administrator](#); [Thomas Hogan](#); [Chase Bernier](#)
Subject: FW: Montague City Road Flooding
Date: Friday, August 25, 2023 1:57:09 PM
Attachments: [image002.png](#)
[14228-C-MONTAGUE-BASE PLAN-C-1.pdf](#)
[Montague City Road Memo \(4-12-2023\).pdf](#)
[RE 23-WW26-0011-APP Montague Montague City Road - Roadway Flooding Protection Project.msg](#)

Hi Maureen,

Please see below. As Walter noted, all set with the recording. Snip below with the Book and Page.

The entire project is now within the Town r.o.w. and not on any adjacent parcels. The attached PDF overall plan has the r.o.w. highlighted in green to help clarify.

The April 23' Memo that we coordinated with the Commission is current with respect to the overall project limits and resource area impacts. The only minor change reflected on the July 19, 2023 when compared to the January 2023 Plan is that the previously reported "Temporary Disturbance Area" highlighted in color yellow and within the resource area impact table has been removed. As part of Alice's view with DEP/WQC, she asked us to remove it. Email attached.

If anything else is needed, let me know.

Thanks,



2022 00002283
Bk: 7957 Pg: 103 Franklin County
Page: 1 of 12 02/28/2022 03:33 PM



**Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands**

WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

229-0254

MassDEP File #

1100433

eDEP Transaction #

City/Town

A. General Information

Please note:
this form has
been modified
with added
space to
accommodate
the Registry
of Deeds
Requirements

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



1. From: Montague
Conservation Commission

2. This issuance is for
(check one): a. ☒ Order of Conditions b. ☐ Amended Order of Conditions

3. To: Applicant:

Thomas

a. First Name

Bergeron

b. Last Name

Town Of Montague Dept. Public Works

c. Organization

500 Avenue A

d. Mailing Address

Turners Falls

e. City/Town

MA

f. State

01376

g. Zip Code

4. Property Owner (if different from applicant):

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

5. Project Location:

Montague City Road

a. Street Address

Turners Falls

b. City/Town

Maps 2 & 3

c. Assessors Map/Plat Number

Lot 56A

d. Parcel/Lot Number

Latitude and Longitude, if known:

42d590m60Ns

d. Latitude

72d569m71Ws

e. Longitude

Larry Rusiecki, PE

Wright-Pierce | Project Manager

office 413.459.2003 | cell 413.977.8503



From: Walter Ramsey - Montague Planner <planner@montague-ma.gov>
Sent: Wednesday, January 26, 2022 5:04 PM
To: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>
Subject: Re: Montague City Road Flooding

Thanks for the update. I will see that the OOC gets recorded.

Walter

Walter Ramsey, AICP | Montague Town Planner | (413) 863-3200 x 112 | planner@montague-ma.gov

From: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>
Sent: Wednesday, January 26, 2022 2:28 PM
To: Walter Ramsey - Montague Planner <planner@montague-ma.gov>
Subject: RE: Montague City Road Flooding

Hi Walter,

I'm reviewing the OTB Spec Divisions at this time. I hope to circulate it to your early next week if that is ok. I also reached out to Chase again at SWCA to get an update on his ACOE task for the PCN. Waiting to hear back from him this afternoon. Ideally we would like to have all of the permit conditions in hand so the construction scope is all understood but understand the timing.

We need to confirm that the original Order has been recorded at the Registry. That is a condition within. PDF attached. I'm assuming the original went to Tom at the DPW's office.

A bid date has not yet been set and I hope that we can base the opening timing off the March 3 meeting date.

As soon as I speak with Chase, I'll let you know.

Thanks,

Larry Rusiecki, PE
Wright-Pierce | Project Manager
office 413.459.2003 | **cell** 413.977.8503



From: Walter Ramsey - Montague Planner <planner@montague-ma.gov>
Sent: Wednesday, January 26, 2022 10:48 AM
To: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>
Subject: Re: Montague City Road Flooding

Hi Larry,

I am checking in on this project. Do we have a bid date? We are coming up on a Special Town meeting deadline next week to add contingency funds to the project. We were hoping to have bids in hand before

March 3 Special Town Meeting. Thanks

Walter

Walter Ramsey, AICP | Montague Town Planner | (413) 863-3200 x 112 | planner@montague-ma.gov

From: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>
Sent: Monday, December 20, 2021 12:56 PM
To: Walter Ramsey - Montague Planner <planner@montague-ma.gov>
Subject: RE: Montague City Road Flooding

Hi Walter,

Understood. We are preparing the CD's and will keep you posted on the permitting.

Thanks,

Larry Rusiecki, PE
Wright-Pierce | Project Manager
office 413.459.2003 | cell 413.977.8503



From: Walter Ramsey - Montague Planner <planner@montague-ma.gov>
Sent: Monday, December 20, 2021 12:40 PM
To: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>
Subject: Re: Montague City Road Flooding

Hi Larry,

I just wanted to convey that my Town Admin is pushing for a late January Bid release date (rather than Feb).

Walter

Walter Ramsey, AICP | Montague Town Planner | (413) 863-3200 x 112 | planner@montague-ma.gov

From: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>
Sent: Thursday, December 16, 2021 2:42 PM
To: Walter Ramsey - Montague Planner <planner@montague-ma.gov>
Subject: RE: Montague City Road Flooding

Hi Walter,

I think if we plan around the end of January even into February, that will give the contractor plenty of time to mobilize. I glanced over the Order of Conditions and did not recall any seasonal time restrictions so the only potential flag will be with the ACOE PCN permit. Chase has the information on the timing of that so I'll contact him now to see if there is any potential exposure.

I hope this helps and as soon as I talk to Chase at SWCA, I'll let you know.

Thanks,

Larry Rusiecki, PE

Wright-Pierce | Project Manager

office 413.459.2003 | **cell** 413.977.8503



From: Walter Ramsey - Montague Planner <planner@montague-ma.gov>

Sent: Thursday, December 16, 2021 2:14 PM

To: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>

Subject: Re: Montague City Road Flooding

Hi Larry,

My Town Admin is pestering me for a bid -date for this project- mostly so we can plan for obtaining additional contingency funds from town meeting if needed. Do you have a timeframe we can plan around?

Walter

Walter Ramsey, AICP | Montague Town Planner | (413) 863-3200 x 112 | planner@montague-ma.gov

From: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>

Sent: Thursday, December 9, 2021 9:33 AM

To: Walter Ramsey - Montague Planner <planner@montague-ma.gov>

Subject: RE: Montague City Road Flooding

Hi Walter,

Got it!

Thanks and we will get going on it.

Thanks,

Larry Rusiecki, PE

Wright-Pierce | Project Manager

office 413.459.2003 | **cell** 413.977.8503



From: Walter Ramsey - Montague Planner <planner@montague-ma.gov>

Sent: Wednesday, December 8, 2021 12:30 PM

To: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>

Subject: Re: Montague City Road Flooding

Hi Larry,

Here is the executed contract amendment. Please consider this your notice to proceed under the terms of this agreement.

I would be interested to know when you anticipate being able to bid the project. Our internal target is to bid in late January if possible.

Walter

Walter Ramsey, AICP | Montague Town Planner | (413) 863-3200 x 112 | planner@montague-ma.gov

From: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>
Sent: Monday, November 29, 2021 3:47 PM
To: Walter Ramsey - Montague Planner <planner@montague-ma.gov>
Subject: RE: Montague City Road Flooding

Hi Walter,

I received your message today regarding the Amendment. I will call you tomorrow mid-morning if that is ok. I have been in an out of meetings all day.

Thanks,

Larry Rusiecki, PE
Wright-Pierce | Project Manager
office 413.459.2003 | cell 413.977.8503



From: Lawrence Rusiecki
Sent: Friday, November 26, 2021 11:45 AM
To: Walter Ramsey - Montague Planner <planner@montague-ma.gov>
Cc: Thomas Hogan <thomas.hogan@wright-pierce.com>
Subject: RE: Montague City Road Flooding

Hi Walter,

Attached please find the signed Amendment that includes the items we discussed. Upon your review, let me know if you have any questions.

Thanks,

Larry Rusiecki, PE
Wright-Pierce | Project Manager
office 413.459.2003 | cell 413.977.8503



From: Lawrence Rusiecki
Sent: Tuesday, November 16, 2021 5:08 PM
To: Walter Ramsey - Montague Planner <planner@montague-ma.gov>

Cc: Thomas Hogan <thomas.hogan@wright-pierce.com>

Subject: Re: Montague City Road Flooding

Sounds good. I'll send along a reminder in the morning.

Thanks

Larry Rusiecki, PE

Wright-Pierce | Project Manager

office [413.459.2003](tel:413.459.2003) | cell [413.977.8503](tel:413.977.8503)



On Nov 16, 2021, at 5:05 PM, Walter Ramsey - Montague Planner <planner@montague-ma.gov> wrote:

Great I am widely available tommorrow. Say 11? Feel free to move me if there is better time for you.

Walter Ramsey, AICP | Montague Town Planner | (413) 863-3200 x 112 | planner@montague-ma.gov

From: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>

Sent: Tuesday, November 16, 2021 5:01 PM

To: Walter Ramsey - Montague Planner <planner@montague-ma.gov>

Cc: Thomas Hogan <thomas.hogan@wright-pierce.com>

Subject: Re: Montague City Road Flooding

Hi Walter,

Yes, I'll be available to go over City Road. Let me know what time works best for you and I'll block that out on my calendar.

Thanks,

Larry Rusiecki, PE

Wright-Pierce | Project Manager

office [413.459.2003](tel:413.459.2003) | cell [413.977.8503](tel:413.977.8503)



On Nov 16, 2021, at 4:53 PM, Walter Ramsey - Montague Planner <planner@montague-ma.gov> wrote:

Hi Larry,

Do you have a few minutes to talk about this project tomorrow (Wed)?

Walter

Walter Ramsey, AICP | Montague Town Planner | (413) 863-3200 x 112 | planner@montague-ma.gov

From: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>
Sent: Tuesday, November 2, 2021 4:20 PM
To: Walter Ramsey - Montague Planner <planner@montague-ma.gov>
Cc: Thomas Hogan <thomas.hogan@wright-pierce.com>
Subject: RE: Montague City Road Flooding

Hi Walter,

That's great news! Unfortunately Val Miller with SWCA has moved on and her replacement is Chase Bernier. She reviewed the amendment back in September and was good with it. I'll talk to her on the timing and next steps required to move forward. I have a meeting in the morning on another project and will try her when on the road. I'll let you know as soon as we connect.

Thanks,

Larry Rusiecki, PE
Wright-Pierce | Project Manager
office 413.459.2003 | cell 413.977.8503



From: Walter Ramsey - Montague Planner <planner@montague-ma.gov>
Sent: Tuesday, November 2, 2021 4:11 PM
To: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>
Subject: Re: Montague City Road Flooding

Hi Larry,

I wanted to check-in. Your memo was helpful, and we have the funding to proceed. The town would like to bid this project this winter.

Are we clear to amend our contract to get us to the final permitting and design?

Walter

From: Walter Ramsey - Montague Planner
Sent: Wednesday, September 22, 2021 1:38 PM
To: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>
Subject: RE: Montague City Road Flooding

Thank you very much Larry. This is very helpful. I am sorry to hear about your health. Scary stuff. Wishing you a speedy recovery.

Walter Ramsey, AICP | Montague Town Planner | (413) 863-3200 x 112 | planner@montague-ma.gov

From: Lawrence Rusiecki [<mailto:lawrence.rusiecki@wright-pierce.com>]

Sent: Wednesday, September 22, 2021 11:29 AM

To: Walter Ramsey - Montague Planner <planner@montague-ma.gov>

Subject: RE: Montague City Road Flooding

Hi Walter,

Attached is a brief memo to support the project. If anything else is required, let me know.

Thanks,

Larry Rusiecki, PE

Wright-Pierce | Project Manager

office 413.459.2003 | **cell** 413.977.8503

From: Lawrence Rusiecki

Sent: Tuesday, September 21, 2021 4:17 PM

To: Walter Ramsey - Montague Planner <planner@montague-ma.gov>

Subject: RE: Montague City Road Flooding

Hi Walter,

Sorry for the delay, I was out of the office last week with Covid. Only worked a total of 8 – 10 hours combined. Feeling better now but its still in my lungs.

With regard to out Montague City Road project, I reached out to Chase as Val is no longer with SWCA. I think their proposal and fee will stand ok as nothing has been applied towards it yet. As soon as I hear from her, I'll let you know.

I will draft up a memo tomorrow morning if that is ok to touch base on the items we talked about. The importance of this project to keep the stormwater within the stream bank and not allow runoff to enter the existing combined/separated drainage system along portions of City Road.

Talk soon and hopefully I'm back to 100% within the next few days.

Thanks,

Larry Rusiecki, PE

Wright-Pierce | Project Manager

office 413.459.2003 | **cell** 413.977.8503

From: Walter Ramsey - Montague Planner <planner@montague-ma.gov>
Sent: Tuesday, September 21, 2021 1:18 PM
To: Lawrence Rusiecki <lawrence.rusiecki@wright-pierce.com>
Subject: Montague City Road Flooding

Hi Larry,

Just checking in on the Montague City Rd. You were going to firm up the additional permitting proposal and provide a memo for ARPA eligible aspects of the project.

FYI I am bringing the project before Finance Committee tomorrow and this will be going to town meeting in October. We plan to bid this winter. Any info you can share will help move the project along.

Thanks for your help!

Walter

Walter Ramsey, AICP | Montague Town Planner | (413) 863-3200 x 112 | planner@montague-ma.gov

TO:	Maureen Pollock, Montague Town Planner	DATE:	4/12/2023
FROM:	Larry Rusiecki, PE	PROJECT NO.:	14228
SUBJECT:	Montague City Road – Conservation Commission Memo		

On behalf of the Town of Montague, Wright-Pierce and SWCA Environmental Consultants have been assisting with permitting and construction related services for the maintenance work associated with the routine roadway flooding along Montague City Road. Refer to the Plans revised Plans prepared by W-P dated January 17, 2023 for details.

The Town has since received a federal grant from the Municipal Vulnerability Preparedness program to promote flood resiliency and address flooding that occurs along Montague City Road south of Walnut Street and north of Warner Street. The unnamed stream that is located adjacent to Montague City Road, a relatively permanent water and Water of the U.S., is filled with sediment and causes the road to flood. Historically, this stream was maintained by the Massachusetts Department of Transportation but now is to be maintained by the Town of Montague. Sediment previously excavated from the unnamed stream by MassDOT is present in the adjacent wetlands and will also be removed. Sheets C-2 through C-6 illustrate the detailed work along the section of Montague Road where work is proposed.

The revised scope of work is to only occur on the Town of Montague property. No work or temporary activity will occur on the former Pan AM Railways parcel as previously detailed. The revised project proposes less removal of accumulated sediment and debris from the stream channel and adjacent wetlands. The scope of the two new catch basins within the Town r.o.w. will remain per the original Plan and will be connected to the existing drain system within outfall to the stream down gradient from the low point in the roadway. This will allow the stream to connect to its original floodplain and restore the flood storage capacity of the wetlands. All impacts to water of the U.S. are temporary, and disturbed areas within the limit of work will be restored following construction.

Revised project will impact:

Bank:	1,830 linear feet (LF) (reduced from 2,758 LF in 2019 OOC)
Bordering Vegetated Wetlands:	8,999 sf
Total Limit of Work within Riverfront:	17,516 sf (entire project limits)
Land Under Water:	3,615 sf (reduced from 8,756 sf in 2019 OOC)

The project will include dredging 275 cubic yards (cy) of sediment from the stream and adjacent wetlands and 225 cy of fill of Land Under Water.

The project has since been “out-to-bid” and pending the final coordination efforts with the ACOE, MassDEP Wetlands and Waterways Program and Conservation Commission, the selected Contractor is prepared to commence construction activity this Spring.

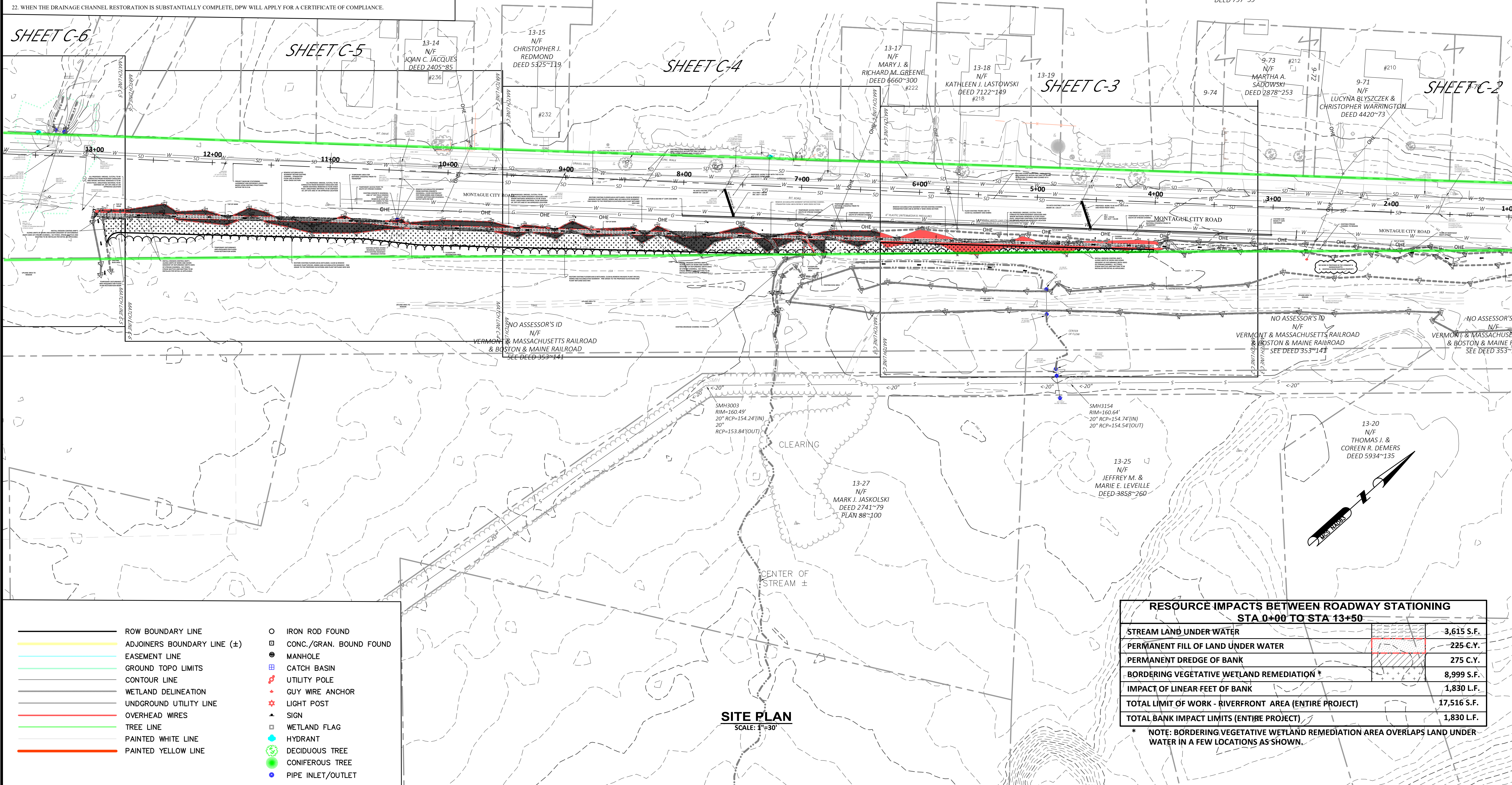
If anything else is required, please let me know.




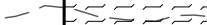

1. STAKE OUT THE LIMITS OF WORK/CLEARING FROM THE EXISTING CULVERT LOCATED AT TURNPIKE ROAD UP TO THE EXISTING STREAM CHANNEL.
2. CLEAR VEGETATION AND TREES WITHIN THE PROPOSED CHANNEL LINE.
3. INSTALL STRAW WATTLE AND EROSION CONTROLS TO REFRAIN SEDIMENT FROM ENTERING INTO THE EXISTING STREAM.
4. EXCAVATE THE PROPOSED CHANNEL TO THE LINES & GRADES SHOWN ON THE APPROVED PLAN OF RECORD.
5. LIMIT THE EXCAVATION SHORT OF THE EXISTING CHANNEL TO KEEP EXISTING FLOWS WITH EXISTING CHANNEL.
6. STABILIZED NEWLY CONSTRUCTED CHANNEL, INSTALL SEEDINGS & PLANTINGS AS SHOWN ON THE PLAN.

1. CONNECT THE NEWLY CONSTRUCTED CHANNEL TO THE RECENTLY DREDGED CHANNEL AT THE END OF THE UP-STREAM WORK ACTIVITY. MONITOR THE CONVEYANCE AND INSTALL ADDITIONAL BMPs AS NEEDED TO LIMIT SEDIMENT DISCHARGE. THE EXISTING CHANNEL LIMITS TO THE SOUTH SHALL REMAIN.
2. INSTALL TEMPORARY IN-STREAM EROSION CONTROLS AND FILTERS AS NECESSARY TO STABILIZE THE DREDGED CHANNEL. CHANNEL DREDGING SHALL BEGIN AT THE DOWNSTREAM END OF THE CHANNEL LOCATED TO THE WEST ALONG MONTAGUE CITY ROAD AND SHALL PROCEED TO THE EAST, UPSTREAM.
3. PRIOR TO THE BEGINNING OF WORK, A SEDIMENT-TRAPPING GEOTEXTILE FILTER SUCH AS A TURBIDITY CURTAIN, OR APPROVED ALTERNATE IN-STREAM DEVICE SHALL BE INSTALLED UPSTREAM OF THE CHANNEL TO PREVENT SEDIMENT FROM ENTERING MONTAGUE CITY ROAD.
4. SELECTIVE CLEARING OF TREES SHALL OCCUR WITHIN THE LIMITS OF THE FLOOD PLAIN RESTORATION. EXISTING LARGE GROWTH TREES WITHIN THE CHANNEL AND ANY TREES SIGNIFICANT TO WILDLIFE SHALL REMAIN.
5. BEFORE INITIATING WORK, A LINE OF SILT FENCE SHALL BE ESTABLISHED AROUND THE LIMIT OF WORK.
6. ADDITIONAL IN-STREAM EROSION CONTROL FILTERS SHALL BE INSTALLED AS THE DREDGING PROCEEDS DOWNSTREAM. THESE FILTER DEVICES MAY CONSIST OF STRAW BALES, TURBIDITY CURTAINS, STONE CHECK DAMS, OR A COMBINATION OF THESE SEDIMENT CONTROL FILTERS.
7. IF NECESSARY, TEMPORARY SAND BAGS SHALL BE UTILIZED TO ENABLE WORK TO OCCUR IN DRY CONDITIONS. PUMPING AROUND THE TEMPORARY DAM OR INTO SETTLING TANKS OR SETTLING BAGS SHALL ALSO BE INITIATED IF NEEDED TO REDUCE TURBIDITY DOWNSTREAM.
8. ALL SEDIMENT CONTROLS WILL REMAIN IN PLACE UNTIL UP-GRADIENT AND UPSTREAM AREAS ARE STABILIZED. THEY WILL BE INSPECTED DAILY AND REPAIRED OR REPLACED AS NEEDED. ACCUMULATIONS OF SEDIMENT WHICH BUILD UP AGAINST THESE BARRIERS WILL BE TREATED THE SAME AS DREDGING MATERIALS AND REMOVED FROM THE SITE.
9. EROSION CONTROLS WILL CONSIST OF STRAW MULCH ON THE RESTORED WETLAND AND OTHER DISTURBED SURFACES, AND EROSION CONTROL FABRIC ON THE SIDE SLOPES OF THE ENTIRE CHANNEL TO BE DREDGED. CONSTRUCTION MATS ALSO FUNCTION AS EROSION CONTROL, AS THEY PROTECT THE GROUND SURFACE FROM CONTACT WITH TRACKS AND TIRES AND WILL BE USED IF NECESSARY.
10. PILES OF SOIL, TRASH, DEBRIS AND INVASIVE PLANTS SHALL BE REMOVED AS THEY ARE ENCOUNTERED AND DISPOSED OF OFFSITE.
11. DREDGING SHALL BE ACCOMPLISHED REASONABLY FROM MONTAGUE CITY ROAD.
12. DREDGED MATERIAL ASSOCIATED WITH THE "PAN-AM" PROPERTY SHALL REMAIN ON-SITE. MATERIAL WILL BE SPREAD ADJACENT TO EXISTING RAILED EMBANKMENT.
13. DREDGING SHALL TAKE PLACE ONLY AFTER ALL BMPs ARE ESTABLISHED.
14. THE CHANNEL AND WETLAND RESTORATION AREA SHALL BE STABILIZED, SEEDDED, AND PLANTED IN ACCORDANCE WITH THE APPROVED PLANS.
15. WHEN ALL DREDGING IS COMPLETED AND WHEN THE CHANNEL IS STABLE AND RE-VEGETATED, THE ADJACENT SILT FENCE SHALL BE REMOVED.
16. WHEN THE DRAINAGE CHANNEL RESTORATION IS SUBSTANTIALLY COMPLETE, DPW WILL APPLY FOR A CERTIFICATE OF COMPLIANCE.

3. ALL EROSION CONTROL DEVICES SHALL BE IN PLACE BEFORE WORK COMMENCES.
4. THE REQUIREMENTS OF THE ORDER OF CONDITIONS SHALL BE FOLLOWED IN THE EVENT OF CONFLICTS WITH THESE NOTES.
5. THE CONSULTING ENGINEER AND/OR A WETLAND SCIENTIST SHALL BE ON-SITE TO OBSERVE THE CONSTRUCTION ACTIVITIES IN AND ADJACENT TO THE STREAM.
6. THE PREVIOUSLY DELINEATED NATURAL RESOURCE AREA FLAGS SHALL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION.
7. STREAM STABILIZATION WORK SHALL BE COMPLETED DURING THE LOW FLOW PERIOD (JULY 15 TO OCTOBER 1). WORK SHALL BE PERFORMED IN THE DRY WHENEVER POSSIBLE. TEMPORARY Dewatering and BY-PASS PUMPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
8. CONSTRUCTION SHALL PROCEED AS RAPIDLY AS POSSIBLE.
9. THE CONTRACTOR SHALL USE SMALL OR SPECIALIZED EQUIPMENT FOR COMPLETING THE SEDIMENT REMOVAL AND STREAM STABILIZATION WORK.
10. THE CONTRACTOR SHALL TAKE CARE TO MINIMIZE IMPACTS TO NATURAL RESOURCES WHEN SELECTING TEMPORARY ACCESS AREAS FOR CONSTRUCTION EQUIPMENT. TEMPORARY ACCESS AREAS SHALL BE REVIEWED/DISCUSSED WITH THE CONSULTING ENGINEER, MONTAGUE CONSERVATION COMMISSION, AND D.P.W. PRIOR TO COMMENCING CONSTRUCTION. AN EROSION CONTROL FENCE, SNOW FENCE OR OTHER APPROVED PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED TO PROTECT NATURAL RESOURCE AREAS PRIOR TO THE START OF CONSTRUCTION.
11. TEMPORARY ACCESS AREAS SHALL BE PROTECTED DURING CONSTRUCTION AND RESTORED TO MATCH EXISTING GRASSES AND SURFACE TREATMENTS UPON COMPLETION OF CONSTRUCTION.
12. TEMPORARY BMP CHECK DAMS AND/OR TURBIDITY CURTAINS SHALL BE INSTALLED AT SELECT LOCATIONS IN THE STREAM CHANNEL. LOCATION OF BMP'S SHALL BE REVIEWED AND APPROVED BY THE CONSULTING ENGINEER, AND MONTAGUE CONSERVATION COMMISSION PRIOR TO INSTALLATION.
13. NATIVE PLANTINGS WILL BE PLACED ALONG THE STREAM BANKS TO PROVIDE ADDITIONAL BANK STABILITY. NATIVE PLANTINGS SHALL GENERALLY BE FLOOD TOLERANT SHRUBS WITH THE FOLLOWING STRUCTURE: 1) 10' TALL DOGWOOD (CORNUS DOGWOOD), 2) 6' TALL DOGWOOD (CORNUS SERICEA), WILLOWS (SALIX SPP.), BUTTERNUT (CEPHALANTHUS OCCIDENTALIS), ELDERBERRY (SAMBUCUS CANADENSIS), SPECKLED ALDER (ALNUS RUGOSA), MEADOWSWORTH (SPIRAEA LATIFOLIA), OR OTHER SIMILAR NATIVE STREAM BANK STABILIZATION SHRUBS (AS DIRECTED BY THE ENGINEER). NATIVE GRASS COVERS MAY ALSO BE UTILIZED, SUCH AS RIVERBANK GRAPE (VITIS RIPARIA), BLUE FLAG IRIS (IRIS VERSICOLOR), MARSH MARIGOLD (CALTHA PALUSTRIS), CARDINAL FLOWER (LOBELIA CARDINALIS) OR OTHER APPROVED FLOOD TOLERANT GRASS COVERS. A PLANTING PLAN SHALL BE DEVELOPED AND APPROVED BY THE MONTAGUE CONSERVATION COMMISSION PRIOR TO COMMENCING STREAM STABILIZATION WORK.
14. COIR EROSION CONTROL BLANKETS SHALL BE USED TO STABILIZE STREAM CHANNELS AS NEEDED FOR BANK STABILIZATION WORK. PLACE COIR BLANKETS PARALLEL TO THE CHANNEL, WHERE MULTIPLE PANELS OF BLANKETS ARE USED, PANELS SHALL BE OVERLAPPED A MINIMUM OF 6" IN DOWNSTREAM AND DOWN SLOPE DIRECTION. PULL COIR BLANKETS TIGHT, BUT MAINTAIN CONTACT WITH THE SOIL. USE HARDWOOD STAKES (2" x2" x18") AT 3' O.C. TO SECURE BLANKETS.

QTY	SCIENTIFIC NAME COMMON NAME	PLANTING SIZE	NOTES
	SEED MIX		
5 LBS	WETMIX FOR CHANNEL	1 LB / 2,500 SF	
10 LBS	NEW ENGLAND EROSION CONTROL FOR BANK	1 LB / 1,250 SF	
10 LBS	NEW ENGLAND CONSERVATION WILDLIFE FOR BVW	1 LB / 1,750 SF	
	PLUGS & STAKES		
300'	HERBACEOUS PLANT PLUG FOR BVW	2" DIA. 1,200' / AC	VEGETATION SPECIES USED FOR PLUGS SHALL BE APPROVED BY THE CONSERVATION COMMISSION
2,750	WILLOW STAKES	2" O.C.	TWO ROWS ON EACH SIDE OF CHANNEL
	SHRUBS		
250'	NATIVE SHRUB PLANTINGS	SEE NOTE #11	PLANT IN CLUSTERS 3-5 OF THE SAME SPECIES, PLANT 5' O.C. WITHIN CLUSTERS, SPACE EVERY 50 LF OF BANK
	OTHER		
	EXISTING LARGE GROWTH TREES		EXISTING LARGE GROWTH TREES WITHIN THE BVW RESTORATION AREA TO REMAIN



RESOURCE IMPACTS BETWEEN ROADWAY STATIONING STA 0+00 TO STA 13+50		
STREAM LAND UNDER WATER		3,615 S.F.
PERMANENT FILL OF LAND UNDER WATER		225 C.Y.
PERMANENT DREDGE OF BANK		275 C.Y.
BORDERING VEGETATIVE WETLAND REMEDIATION *		8,999 S.F.
IMPACT OF LINEAR FEET OF BANK		1,830 L.F.
TOTAL LIMIT OF WORK - RIVERFRONT AREA (ENTIRE PROJECT)		17,516 S.F.
TOTAL BANK IMPACT LIMITS (ENTIRE PROJECT)		1,830 L.F.

* NOTE: BORDERING VEGETATIVE WETLAND REMEDIATION AREA OVERLAPS LAND UNDER WATER IN A FEW LOCATIONS AS SHOWN.

MONTAGUE CITY ROAD ROADWAY FLOODING PROTECTION PROJECT IDENTIFICATION OF ALTERNATIVE SOLUTIONS		WRIGHT-PIERCE Engineering a Better Environment 888.621.8156 www.wright-pierce.com				SWCA Environmental Consultants 13 Research Drive Plymouth, MA 01962 (508) 413.256, 1092 www.swca.com		DESIGNED BY: _____ CAD COORD: _____ CHECKED BY: <u>TJH</u> DATE: <u>April 11, 2019</u> APPROVED BY: _____ DATE: _____ PROJECT NO.: _____		SUBMISSIONS/REVISIONS		APPROVAL DATE			
OVERALL SITE & MITIGATION PLAN								LAR, TJH		1/1		PERMIT DRAWING REVISIONS TO ADDRESS COM PERMIT DRAWING REVISIONS TO CLARIFY OHWM LIMITS OUT TO BID REVISED LIMIT OF WORK MASSDEP COMMENTS MASSDEP COMMENTS		LAR 7/21/15 LAR 2/5/20 LAR 8/13/26 LAR 9/13/22 LAR 12/9/22 LAR 1/17/23 LAR 7/19/23	