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December 23, 2020

Chris Bertoni
Conservation Administrator
Manchester-By-The-Sea Conservation Commission
10 Central Street
Manchester by the Sea, MA 01944

**A&M Project #:** 2725-01

Re:

MassDEP File # 39-0834

**ANRAD Supplemental** 

Information

School Street

Assessors Map 43, Lots 18

Manchester by the Sea, MA 01944

Dear Ms. Bertoni:

On behalf of the applicant, SLV School Street, LLC, Allen & Major Associates, Inc. (A&M) is pleased to submit this supplemental information for the current Abbreviated Notice of Resource Area Delineation (ANRAD), MassDEP File 39-0834, being considered by the Commission.

The supplemental information includes data resulting from a site inspection and resource area evaluation with the Conservation Commissions peer review consultant DeRosa Environmental. The following additional resources were reviewed: Mean Annual High Water (MAHW) of Sawmill Brook and the associated Riverfront Areas located on 0 School Street, Manchester by the Sea, MA (Assessors Map 43, Lot 18). A summary narrative from Goddard Consulting, dated December 21, 2020 has been attached detailing the site inspection and providing the resulting additional data.

Enclosed please find eight (8) full packages of the supplemental information, including an the summary narrative and the stamped and signed updated Existing Conditions Plan by A&M showing the updated resource areas.

Allen & Major Associates, Inc. looks forward to discussing the application at the next Conservation Commission public hearing on January 19, 2021. Please let us know the time of the hearing. Thank you for your time and consideration. If you have any questions regarding this submittal please contact me at (781) 935-6889.

Very Truly Yours,

**ALLEN & MAJOR ASSOCIATES, INC.** 

Carlton M. Quinn, PE Senior Project Manager

December 21, 2020

Carlton Quinn Allen & Major Associates 100 Commerce Way Woburn, MA 01801

Re: Supplemental Documentation for ANRAD Peer Review School Street - Manchester, MA DEP File # 39-0834

### Introduction

On December 3, 2020, I performed a site inspection and resource area evaluation with the Conservation Commission's peer review consultant Mike DeRosa of DeRosa Environmental Consulting, Inc. Mr. DeRosa and I inspected the delineated resource areas as shown on the plan titled "Existing Conditions," by Allen & Major Associates, Inc. dated rev. 11/18/20.

In addition to the flagged areas of Bordering Vegetated Wetland (BVW), Isolated Vegetated Wetland (IVW) and Mean Annual High Water (MAHW) of Sawmill Brook, we also inspected a topographical valley area in the southeastern portion of the property that extends eastward toward School Street. This area was not delineated as a wetland but due to the topographical conditions and presence of some hydrophytic plant species, Mr. DeRosa recommended that the upland conditions within the lowest portions of the area be documented using MassDEP Bordering Vegetated Wetland (BVW) datasheets.

We performed a close examination of the area denoted as the "C-series" on the plan. This area had been initially considered an IVW based on the presence of standing water and hydrophytic vegetation. Mr. DeRosa recommended that additional documentation be performed to verify the jurisdictional status of this area.

I performed the recommended supplemental documentation in the two areas, per Mr. DeRosa's recommendation. The methodology, results and conclusions are described in detail below. No adjustments were made to the A, B or D-series BVW flags, nor to any of the MAHW flags.

## <u>Methods</u>

Supplemental soil test pits were hand-augured at five separate locations on December 3, including three in the southeastern portion of the property area, denoted as "TP1" to "TP3" (Figure 1), and two in the area denoted as the "C-series" on the plan denoted as "TP4" and

"TP 5" (Figure 2). Note that three additional test pits conducted on 2/2/20 are also shown on Figure 2 (orange circles). Data was collected at each test pit location in accordance with procedures for documenting BVW in the MassDEP "Delineating Bordering Vegetated Wetlands" Handbook, dated March 1995.

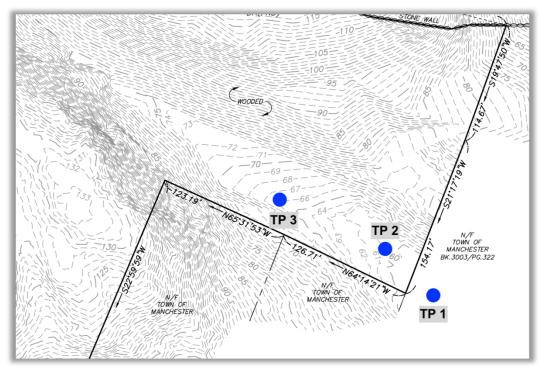


Figure 1 - Test pit locations performed on 12/3/20 in southeast portion of property.

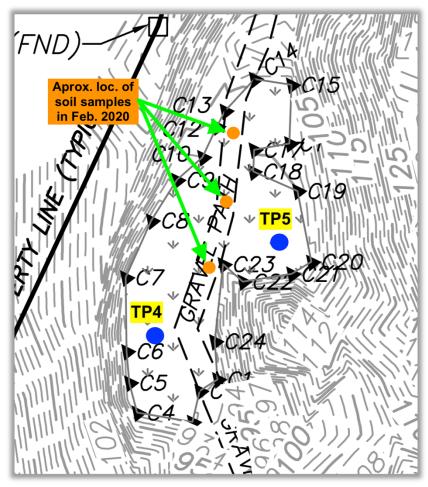


Figure 2 - Test pit locations in "C-series" performed on 12/3/20 (TP 4 & 5) and 2/2/20 (orange circles).

# **Results**

DEP datasheets are provided for test pits 1-5. Additional details for the 2/2/20 inspection of the C-series are provided as narrative below.

### **TP 1-3**

Test Pits 1-3 in the southeast portion of the property confirmed that upland conditions are present, despite the steep topography which creates a potential route for water to drain eastward towards School Street. Although low chroma colors were observed in the B-Horizon at TPs 1 & 2, these soils do not qualify as hydric indicators. No other indicators of the presence of a stream or BVW such as wrack lines, water staining on rocks or trees, or presence of obligate indicator plants such as Sphagnum moss were observed. Further downslope (offsite) to the east (Town of Manchester property) there were no visible wetland conditions present all the way up to School Street.

Photos 1-3 show the locations of TP1-3 respectively.



Photo 1 - TP #1.



Photo 2 - TP #2.



Photo 3 - TP #3.

# **TP 4-5**

Test Pits 4 and 5 in the C-series confirmed that upland soils are present. Photos 4 and 5 show the locations of these test pits respectively.



Photo 4 - TP #4.



Photo 5 - TP #5.

On February 2, 2020 a small area of shallow standing water was present in the northern portions of the cart path, SW of flag #C18, approximately 300 sf in extent (Photos 6 & 7).



Photo 6 - View of standing water on cart path, facing south, taken 2/2/20.



Photo 7 - View of standing water on cart path, facing north, taken 2/2/20.

The soils at three separate locations along the cart path (Figure 2) consisted of non-hydric hard-packed sand, with 10 YR 4/4 color to a depth of greater than 12 inches (Photo 8).



Photo 8 - View of soils typical within cart path portion of C-series.

In summary, three test pits within the cart path on 2/2/20 and two additional test pits within low spots on either side of the cart path on 12/3/20 confirm the absence of hydric soils from within the C-series. Eastern hemlock is the dominant plant species throughout the C-series, followed by white pine. The US Army Corps of Engineers 2018 National Wetland Plant List, v. 3.4 lists eastern hemlock (*Tsuga canadensis*) as "FACU," which is considered an upland species designation. White pine (*Pinus strobus*) is also listed as FACU. Based on the above observations, I conclude that the area originally flagged as the "C-series" is not a wetland, and therefore is not an area subject to the jurisdiction of the Wetlands Protection Act [M.G.L. c. 131, § 40] or its regulations [310 CMR 10.00].

### Conclusions

The A, B and D-series BVW, plus R-series MAHW are accurately reflected on the plan dated 11/18/20. No wetland resource area is present in the topographical valley extending eastward towards School Street. The C-series should be removed from the plan, as it is not a wetland and thus not a resource area subject to the Wetlands Protection Act.

Sincerely,

GODDARD CONSULTING, LLC

Daniel Wells, M.S.

Senior Wildlife Biologist and Wetland Scientist

√ Vegetation and o	eet, LLC Prepared by: <u>Dan Wells</u> presumed adequate to delineate BVW boundary: fill out other indicators of hydrology used to delineate BVW boundary and dominance test used (attach additional information)	t Section I only	tion: <u>School Street, Man</u> d III	cnester DEP Fil	e #: <u>39-0834</u>
Section I. Vegetation	Observation Plot Number: TP 1	Transect Num	ber: Upgradient	Date of Delineat	ion: 3-Dec-20
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
Tree Layer American beech	Fagus grandifolia	20%	100.0%	yes	FACU
<u>Sapling Layer</u> American beech	Fagus grandifolia	5%	100.0%	yes	FACU
<u>Shrub Layer</u>					
Climbing Woody Vine					
<u>Ground Cover</u>					
Remarks: * An asterisk after	common plant name indicates stunted growth; ** indicates extrem	mely stunted growth			
Morphological Adaptations: 0	Description:	-			
	plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40	); plants in the genus Sphagnum; o	or plants listed as FAC, FACW,	or OBL.	
Vegetation conclusion: Number of dominant wetland indicator Is the number of dominant wetland plan	plants: 0 nts equal to or greater than the number of dominant		inant non-wetland indi	cator plants: 2	

Section II. Indicators of Hydrology	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation  1. Soil Survey	Site inundated:  Depth to free water in observation hole:
Is there a published soil survey for this site?  title/date: Soil Survey of Essex County, Southern Part - 1984  map number:  soil type mapped: Chatfield-Hollis-Rock outcrop complex, 15 to 3  hydric soil inclusions: Leicester, extremely stony	
Are field observations consistent with soil survey?	Sediment deposits:  Drainage patterns in BVW:  Oxidized rhizoshperes:
2. Soil Description  Horizon Depth (inches) Matrix Color Mottles Color or Texture  A 0-4 10YR 2/1 loam  B 4-9 10YR 3/2 loam  C 9-12+ 10YR 3/4 sandy loam	Water-stained leaves:  Recorded data (stream, lake, or tidal gauge; aerial photo; other):  Other:
Remarks:	Vegetation and Hydrology Conclusion for Upgradient of TP 1  ves  no  Number of wetland indicator plants  >= number of non-wetland plants  X
3. Other:	Wetland hydrology present: hydric soils present  X  other indicators of hydrology
	present X

Section I. Vegetation	than dominance test used (attach additional information)  Observation Plot Number: TP 2	Transect Num	ber: Upgradient	Date of Delineat	ion: 3-Dec-20
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
Tree Layer Eastern hemlock Red maple	Tsuga canadensis Acer rubrum	45% 20%	69.2% 30.8%	yes yes	OBL* FAC*
<u>Sapling Layer</u> Eastern hemlock American beech	Tsuga canadensis Fagus grandifolia	5% 5%	50.0% 50.0%	yes yes	OBL* FACU
<u>Shrub Layer</u>					
Climbing Woody Vine					
<u>Ground Cover</u> Non-Sphagnum moss	Bryopsida sp.	15%	100.0%	yes	FACU
<b>Remarks:</b> * An asterisk af	fter common plant name indicates stunted growth; ** indicates extrer	nely stunted growth			
Morphological Adaptations: 0	Description:	·	or plants listed as FAC, FACW, o		

Section II. In	dicators of Hydro	ology		Other In	dicators of Hydrology: (check all that a		
Hydric Soil Interpretation  1. Soil Survey  Is there a published soil survey for this site?  title/date: Soil Survey of Essex County, Southern Part - 1984 map number: soil type mapped: Chatfield-Hollis-Rock outcrop complex, 15 to 35 hydric soil inclusions: Leicester, extremely stony  Are field observations consistent with soil survey?					☐ Depth to free water in observation hole: ☐ Depth to soil saturation in observation hole: ☐ Water marks:		
Remarks:		•	—· —		☐ Drainage patterns in BVW: ☐ Oxidized rhizoshperes: ☐ Water-stained leaves:		
2. Soil Descrip Horizon A B	Depth (inches) 0-6 6-12+		Mottles Color or Texture loam sandy loam		Recorded data (stream, lake, or Other:	tidal gauge; aerial pl	hoto; other):
Remarks:				Number >= numl	ion and Hydrology Conclusion for Upg  of wetland indicator plants  per of non-wetland plants I hydrology present:	radient of TP 2 <u>yes</u> X	<u>no</u>
3. Other:				wettand	hydric soils present  other indicators of hydrology present		X X
Conclusion: Is	soil hydric?	☐ y	esno		location is in a BVW  Form with the Request for Determination of Applicability of	r Notice of Intent	X

SLV School Street, LLC Prepared by: Dan Wells

Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only Applicant: SLV School Street, LLC Project location: School Street, Manchester DEP File #: 39-0834 Check all that apply: Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II Method other than dominance test used (attach additional information) Section I. Vegetation Observation Plot Number: TP 3 Transect Number: Upgradient Date of Delineation: 3-Dec-20 **Wetland Indicator Dominant Plant** Sample Layer and Plant Species Scientific name % Cover % Dominance Category\* (ves or no) Tree Layer Sapling Layer Eastern white pine Pinus strobus 10% 66.7% **FACU** yes Striped maple Acer pensylvanicum 5% 33.3% **FACU** yes Shrub Layer Climbing Woody Vine Ground Cover 15% FACW\* Cinnamon fern Osmundastrum cinnamomeum 100.0% yes Remarks: \* An asterisk after common plant name indicates stunted growth; \*\* indicates extremely stunted growth Morphological Adaptations: 0 Description: \* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL. Vegetation conclusion: Number of dominant wetland indicator plants: 1 Number of dominant non-wetland indicator plants: 2 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? no

Section II. Indicators of H	ydrology			ology: (check all that apply an	
map nu soil type ma	b/date: Soil Survey of Ember: pped: Chatfield-Holl sions: Leicester, extr		☐ Depth to s☐ Depth to s☐ Water ma.	:	
D 1	•	—, —	Oxidized	rhizoshperes:ined leaves:	
	10YR 2/1 10YR 3/4	Mottles Color or Texture loam sandy loam	Other:	data (stream, lake, or tidal gar	,
			Number of wetland indica	-	<u>yes</u> <u>no</u>
			>= number of non-wetland Wetland hydrology present hydric soil	•	X X
			present	icators of hydrology	X
Conclusion: Is soil hydric?	<b></b>	resno	Sample location is in a BV Submit this form with the Request for I	/W Determination of Applicability or Notice of	T Intent

√ Vegetation and o	e presumed adequate to delineate BVW boundary: fill out other indicators of hydrology used to delineate BVW boundary and dominance test used (attach additional information)	ndary: fill out Sections I and	l II		
Section I. Vegetation	Observation Plot Number: TP 4	Transect Num	ber: Upgradient	Date of Delineat	tion: 3-Dec-20
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
<u>Tree Layer</u> Eastern white pine	Pinus strobus	25%	62.5%	Vec	FACU
Eastern hemlock	Tsuga canadensis	15%	37.5%	yes yes	OBL*
Sapling Laver					
Eastern hemlock Gray birch	Tsuga canadensis Betula populifolia	80% 10%	88.9% 11.1%	yes no	OBL* FAC*
<u>Shrub Layer</u>					
Climbing Woody Vine					
<u>Ground Cover</u>					
Remarks: * An asterisk after	common plant name indicates stunted growth; ** indicates extre	mely stunted growth			
Morphological Adaptations: 0	Description:				
	plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40)	); plants in the genus Sphagnum; o	or plants listed as FAC, FACW,	or OBL.	
Vegetation conclusion:		<b>3</b> .7 1 61 6		. 1 . 4	
Number of dominant wetland indicator  Is the number of dominant wetland play	plants: 2 nts equal to or greater than the number of dominant		inant non-wetland indic	cator plants: 1	
is the number of adminant welland plan	its equal to of Eleater than the number of dominant	i non-wenanu piantsi yes	,		

Section II. Indicators of Hydrology	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation  1. Soil Survey  Is there a published soil survey for this site?  title/date: Soil Survey of Essex County, Southern Part - 1984 map number: soil type mapped: Udorthents, smoothed hydric soil inclusions:	☐ Site inundated:   ☐ Depth to free water in observation hole:   ☐ Depth to soil saturation in observation hole:   ☐ Water marks:   ☐ Drift Lines:   ☐ Sediment deposits:
Are field observations consistent with soil survey?	Drainage patterns in BVW:  Oxidized rhizoshperes:
2. Soil Description  Horizon Depth (inches) Matrix Color Mottles Color or Texture  A 0-2 10YR 2/1 loam  B 2-13 (refusal) 10YR 3/4 loamy sand	Water-stained leaves:  Recorded data (stream, lake, or tidal gauge; aerial p  Other:
Remarks: refusal at hard packed gravel	Vegetation and Hydrology Conclusion for Upgradient of TP 4  ves  Number of wetland indicator plants  >= number of non-wetland plants  X
3. Other:	Wetland hydrology present:     hydric soils present     other indicators of hydrology     present
Conclusion: Is soil hydric?	Sample location is in a BVW Submit this form with the Request for Determination of Applicability or Notice of Intent

Site inundated:				
Depth to free water in observation hole:				
Depth to soil saturation in observation hole:				
Water marks:				
Drift Lines:				
Sediment deposits:				
Drainage patterns in BVW:				
Oxidized rhizoshperes:				
Water-stained leaves:				
Recorded data (stream, lake, or tidal gauge; aerial ph	oto; other):			
Other:				
Vegetation and Hydrology Conclusion for Upgradient of TP 4 <u>yes</u>	no			
Number of wetland indicator plants	<u>110</u>			
>= number of non-wetland plants X				
Wetland hydrology present:				
hydric soils present	X			
other indicators of hydrology				
present	X			
Sample location is in a BVW	X			
Submit this form with the Request for Determination of Applicability or Notice of Intent				

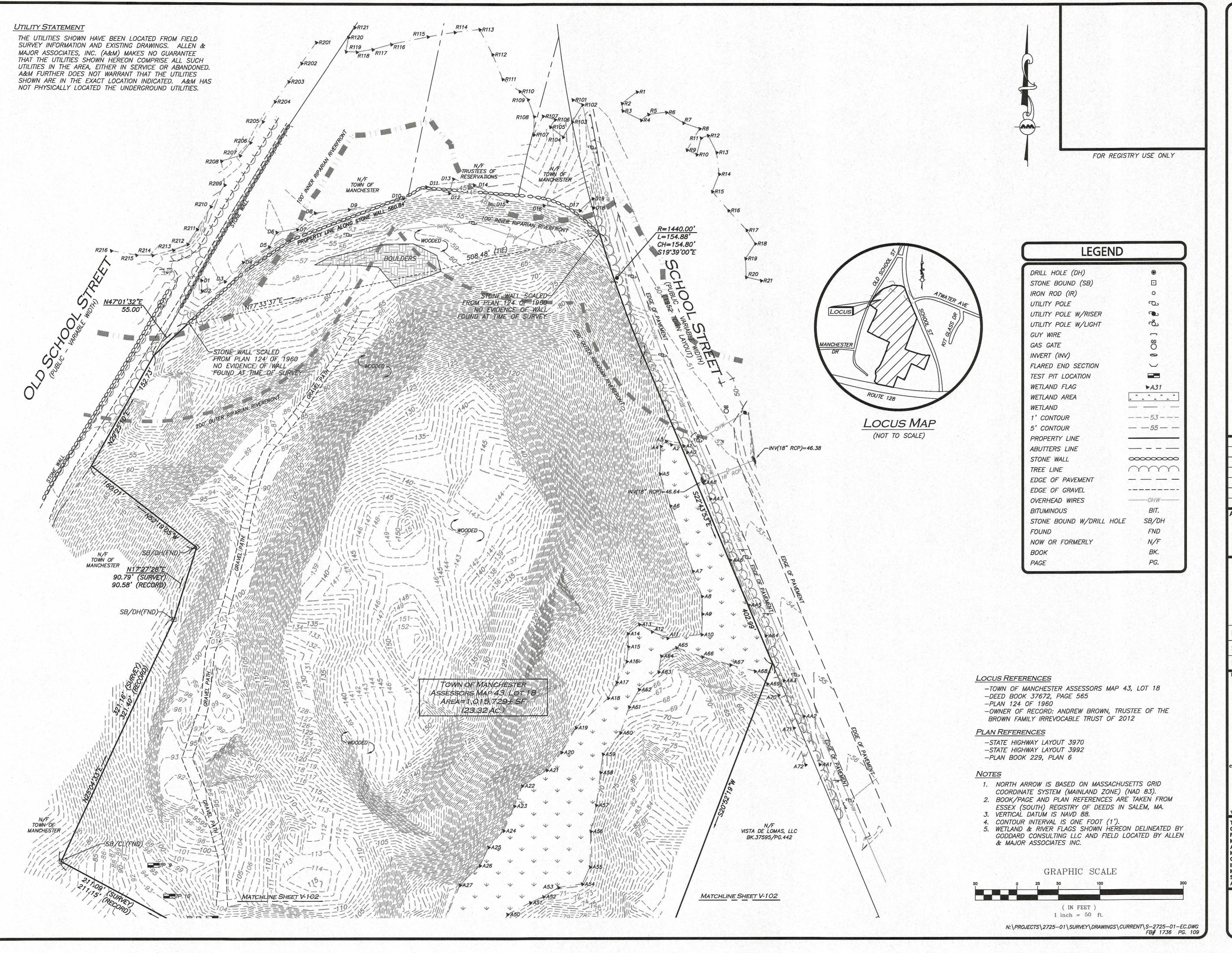
Prepared by: Dan Wells Applicant: SLV School Street, LLC Project location: School Street, Manchester DEP File #: 39-0834 Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only Check all that apply: Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II Method other than dominance test used (attach additional information) Section I. Vegetation Observation Plot Number: TP 5 Transect Number: Upgradient Date of Delineation: 3-Dec-20 **Wetland Indicator Dominant Plant** Sample Layer and Plant Species Scientific name % Cover % Dominance Category\* (ves or no) Tree Layer Eastern white pine Pinus strobus 66.7% FACU 50% yes Eastern hemlock 25% 33.3% OBL\* Tsuga canadensis yes Sapling Layer Eastern hemlock Tsuga canadensis 10% 66.7% OBL\* yes Gray birch Betula populifolia 5% 33.3% FAC\* yes Shrub Layer Highbush blueberry FACW\* Vaccinium corymbosum 5% 100.0% yes Climbing Woody Vine Ground Cover 15% Non-sphagnum moss Bryopsida sp. 100.0% **FACU** yes Remarks: \* An asterisk after common plant name indicates stunted growth; \*\* indicates extremely stunted growth Morphological Adaptations: 0 Description: An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL. Vegetation conclusion: Number of dominant wetland indicator plants: 4 Number of dominant non-wetland indicator plants: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes

# Section II. Indicators of Hydrology Hydric Soil Interpretation 1. Soil Survey yes no Is there a published soil survey for this site? title/date: Soil Survey of Essex County, Southern Part - 1984 map number: soil type mapped: Udorthents, smoothed hydric soil inclusions: Are field observations consistent with soil survey? yes no Remarks: 2. Soil Description Mottles Color or Texture Horizon Depth (inches) Matrix Color 0-13+ 10YR 3/4 sand Remarks: 3. Other: Conclusion: Is soil hydric? yes √ no

Other Indicators of Hydrology: (check all that apply and describe)
Site inundated: standing water (outside of growing season)
Depth to free water in observation hole:
Depth to soil saturation in observation hole:
Water marks:
Drift Lines:
Sediment deposits:
Drainage patterns in BVW:
Oxidized rhizoshperes:
Water-stained leaves:
Recorded data (stream, lake, or tidal gauge; aerial photo; other):
Other:
egetation and Hydrology Conclusion for Upgradient of TP 5
<u>yes</u> <u>no</u>
Jumber of wetland indicator plants = number of non-wetland plants X
Vetland hydrology present:
hydric soils present X
other indicators of hydrology present X
sample location is in a BVW X

Submit this form with the Request for Determination of Applicability or Notice of Intent



WE HEREBY CERTIFY THAT:

THIS PLAN IS THE RESULT OF AN ACTUAL ON THE GROUND SURVEY PERFORMED ON OR BETWEEN NOVEMBER 21, 2019 AND DECEMBER

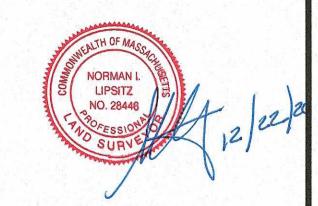
THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS DATED JANUARY 1, 1976 AND REVISED JANUARY 12, 1988.

ACCORDING TO DEEDS AND PLANS OF RECORD, THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIP, AND THE LINES OF THE STREETS OR WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS AND WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR THE DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

THE ABOVE CERTIFICATION IS INTENDED TO MEET REGISTRY OF DEEDS REQUIREMENTS FOR THE RECORDING OF PLANS AND IS NOT A CERTIFICATION TO THE TITLE OR OWNERSHIP OF THE PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE SHOWN ACCORDING TO CURRENT TOWN OF MANCHESTER ASSESSOR'S INFORMATION. THE ABOVE IS CERTIFIED TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF.

ALLEN & MAJOR ASSOCIATES, INC.

PROFESSIONAL LAND SURVEYOR FOR ALLEN & MAJOR ASSOCIATES, INC.



4.	12/22/20	WETLAND LOCATION REVISION
3.	12/11/20	TEST PIT LOCATIONS ADDED
2.	11/19/20	RIVERFRONT BUFFERS ADDED
	4440400	MARTINE AND ADDED

11/18/20 | WETLAND/RIVER FLAGS ADDED

APPLICANT\OWNER:

SLV SCHOOL STREET, LLC 257 HILLSIDE AVENUE NEEDHAM, MA 02494

REV DATE DESCRIPTION

PROJECT

ASSESSORS MAP 43, LOT 18
SCHOOL STREET
MANCHESTER BY THE SEA, MA

 PROJECT NO.
 2725-01
 DATE:
 09/21/2020

 SCALE:
 1" = 50'
 DWG. NAME:
 S-2725-01-EC

 DRAFTED BY:
 KAC
 CHECKED BY:
 NIL



civil engineering \( \int \) land surveying nvironmental consulting \( \int \) landscape architecture www.allenmajor.com

100 COMMERCE WAY, SUITE 5 WOBURN MA 01801-8501 TEL: (781) 935-6889 FAX: (781) 935-2896

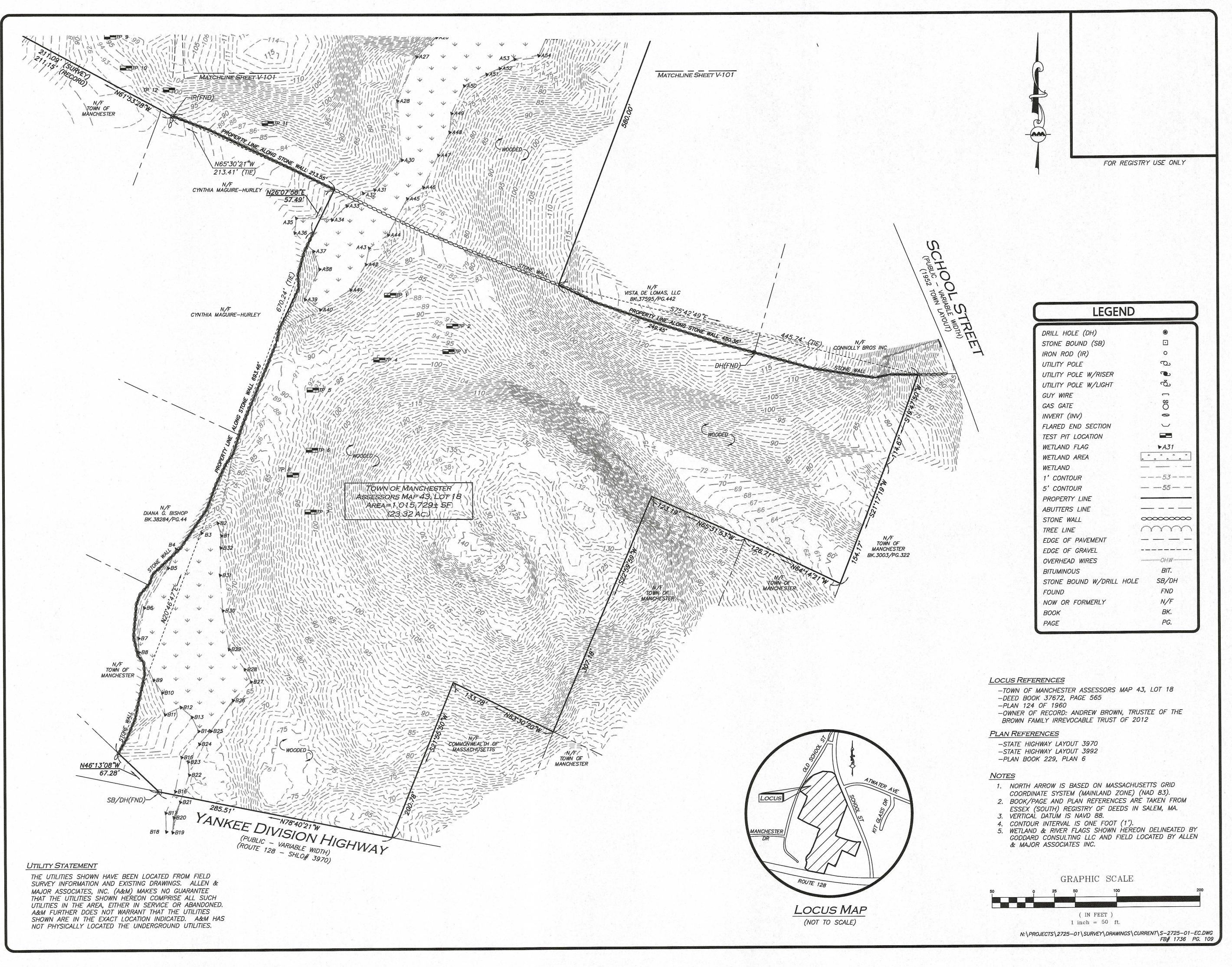
THIS DRAWING HAS BEEN PREPARED IN ELECTRONIC FORMAT. CLIENT/CLIENT'S REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETI MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORSHIP ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

DRAWING TITLE:

V-101

**EXISTING CONDITIONS** 

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WE HEREBY CERTIFY THAT:

THIS PLAN IS THE RESULT OF AN ACTUAL ON THE GROUND SURVEY PERFORMED ON OR BETWEEN NOVEMBER 21, 2019 AND DECEMBER

THIS PLAN WAS PREPARED IN ACCORDANCE

WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS DATED JANUARY 1, 1976 AND REVISED JANUARY 12, 1988. ACCORDING TO DEEDS AND PLANS OF RECORD, THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIP, AND THE LINES OF THE STREETS OR WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS AND WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR THE DIVISION OF EXISTING OWNERSHIP OR FOR

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ALLEN & MAJOR ASSOCIATES, INC.

PROFESSIONAL LAND SURVEYOR FOR ALLEN & MAJOR ASSOCIATES, INC.



4.	12/22/20	WETLAND LOCATION REVISION
3.	12/11/20	RIVERFRONT BUFFERS ADDED
2.	11/19/20	RIVERFRONT BUFFERS ADDED
1.	11/18/20	WETLAND/RIVER FLAGS ADDED
REV	DATE	DESCRIPTION

APPLICANT\OWNER:

SLV SCHOOL STREET, LLC **257 HILLSIDE AVENUE** NEEDHAM, MA 02494

ASSESSORS MAP 43, LOT 18 SCHOOL STREET MANCHESTER BY THE SEA, MA

2725-01 DATE: 09/21/2020 PROJECT NO. 1" = ##' DWG. NAME: S-2725-01-E0 SCALE: KAC | CHECKED BY: DRAFTED BY:



civil engineering + land surveying nvironmental consulting • landscape architecture www.allenmajor.com 100 COMMERCE WAY, SUITE 5 WOBURN MA 01801-8501 TEL: (781) 935-6889

FAX: (781) 935-2896 WOBURN, MA . LAKEVILLE, MA . MANCHESTER, N

CLIENT/CLIENT'S REPRESENTATIVE OR CONSULTANT MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS ON MAGNETI MEDIA FOR HIS/HER INFORMATION AND USE FOR SPECIFIC APPLICATION TO THIS PROJECT. DUE TO THE POTENTIAL THAT THE MAGNETIC INFORMATION MAY BE MODIFIED UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATES, INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT'S AUTHORSHIP ON THE MAGNETIC MEDIA. PRINTED REPRESENTATIONS OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.

SHEET No.

V-102

**EXISTING CONDITIONS** 

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DRAWING TITLE: