

August 8, 2023

Notice of Intent

Under the *Wetlands Protection Act* (M.G.L. c. 131, §40),
the *Rivers Protection Act* (M.G.L. c. 256, Acts of 1996)
and their Regulations (310 CMR 10.00),

Intersection Improvements

Lynn Fells Parkway and Melrose Street
Melrose, Massachusetts

Prepared for:

Department of Conservation and Recreation

10 Park Plaza Suite 6620
Boston, MA 02116

Prepared by:

Nitsch Engineering

2 Center Plaza, Suite 430
Boston, MA 02108

Nitsch Project #12589.9



Civil Engineering



Transportation
Engineering



Structural
Engineering



Resilience & Green
Infrastructure



Planning



Land Surveying



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Attachment Stormwater Report (Under Separate Cover)

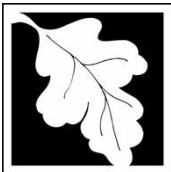


SECTION 1 Notice of Intent Forms

WPA Form 3 – Notice of Intent

NOI Wetland Fee Transmittal Form

Copy of Checks (Local and State Filing Fees)



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Melrose

City/Town

Important:

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



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

Melrose Street and Lynn Fells Parkway
a. Street Address

Melrose
b. City/Town

02176
c. Zip Code

Latitude and Longitude:
42.4637
d. Latitude

-71.0629
e. Longitude

N/A
f. Assessors Map/Plat Number

N/A
g. Parcel /Lot Number

2. Applicant:

Val
a. First Name

Soroka
b. Last Name

Massachusetts Department of Conservation and Recreation
c. Organization

10 Park Plaza, Suite 6620
d. Street Address

Boston
e. City/Town

MA
f. State

02116
g. Zip Code

617-626-1250
h. Phone Number

i. Fax Number

val.soroka@mass.gov
j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

Priscilla
a. First Name

Geigis
b. Last Name

Department of Conservation and Recreation
c. Organization

10 Park Plaza, Suite 6620
d. Street Address

Boston
e. City/Town

MA
f. State

02116
g. Zip Code

617-626-4986
h. Phone Number

i. Fax Number

priscilla.geigis@mass.gov
j. Email address

4. Representative (if any):

Brittney
a. First Name

Ferber
b. Last Name

Nitsch Engineering
c. Company

2 Center Plaza, Suite 430
d. Street Address

Boston
e. City/Town

MA
f. State

02108
g. Zip Code

857-206-8734
h. Phone Number

i. Fax Number

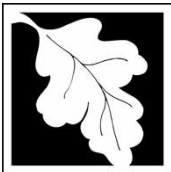
bferber@nitscheng.com
j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

\$1,050
a. Total Fee Paid

\$512.50
b. State Fee Paid

\$537.50
c. City/Town Fee Paid



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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Melrose	
City/Town	

A. General Information (continued)

6. General Project Description:

The project consists of the mill and overlay of Lynn Fells Parkway and Melrose Street, and safety improvements to the intersection. Safety improvements include realigning the curb layout, reconstructing pedestrian ramps, and the installation of new traffic signals, signage, and striping.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1. Single Family Home
- 2. Residential Subdivision
- 3. Commercial/Industrial
- 4. Dock/Pier
- 5. Utilities
- 6. Coastal engineering Structure
- 7. Agriculture (e.g., cranberries, forestry)
- 8. Transportation
- 9. Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

- 1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

Maintenance and Improvement of existing public roadways, but limited to widening less than a single lane, adding shoulders, correcting substandard intersections, and improving drainage systems

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

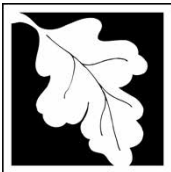
8. Property recorded at the Registry of Deeds for:

N/A	
a. County	b. Certificate # (if registered land)
c. Book	d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1. Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



Massachusetts Department of Environmental Protection
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Melrose

City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet	2. square feet
	3. cubic yards dredged	

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	27,440	
	1. square feet	2. square feet
	0	8,370
	3. cubic feet of flood storage lost	4. cubic feet replaced

e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced

f. Riverfront Area

1. Name of Waterway (if available) - **specify coastal or inland**

2. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: _____ square feet

4. Proposed alteration of the Riverfront Area:

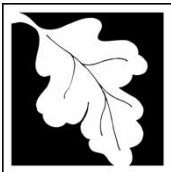
a. total square feet _____ b. square feet within 100 ft. _____ c. square feet between 100 ft. and 200 ft. _____

5. Has an alternatives analysis been done and is it attached to this NOI? Yes No

6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



Massachusetts Department of Environmental Protection
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Melrose
City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

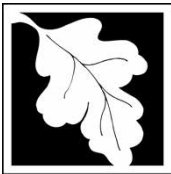
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	

4. Restoration/Enhancement
If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

_____	_____
a. square feet of BVW	b. square feet of Salt Marsh

5. Project Involves Stream Crossings

_____	_____
a. number of new stream crossings	b. number of replacement stream crossings



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C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

**Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581**

b. Date of map _____

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

1. Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area _____ percentage/acreage
 - (b) outside Resource Area _____ percentage/acreage

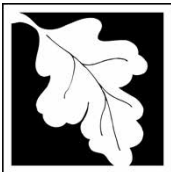
2. Assessor's Map or right-of-way plan of site

2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **
 - (a) Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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C. Other Applicable Standards and Requirements (cont'd)

(c) MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).

Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. Not applicable – project is in inland resource area only b. Yes No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

North Shore - Hull to New Hampshire border:

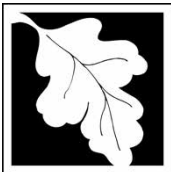
Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: dmf.envreview-south@mass.gov

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: dmf.envreview-north@mass.gov

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

c. Is this an aquaculture project? d. Yes No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



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Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Melrose
City/Town

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

C. Other Applicable Standards and Requirements (cont'd)

- 4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
 a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
 b. ACEC

- 5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
 a. Yes No
- 6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
 a. Yes No
- 7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
 a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
 - 1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 - 2. A portion of the site constitutes redevelopment
 - 3. Proprietary BMPs are included in the Stormwater Management System.
 b. No. Check why the project is exempt:
 - 1. Single-family house
 - 2. Emergency road repair
 - 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

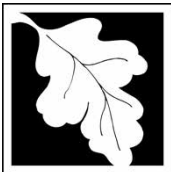
D. Additional Information

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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Provided by MassDEP:
MassDEP File Number
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Melrose
City/Town

D. Additional Information (cont'd)

3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. List the titles and dates for all plans and other materials submitted with this NOI.

Intersection Improvements at Lynn Fells Parkway and Melrose Street

a. Plan Title

Nitsch Engineering

Birendra Gurung

b. Prepared By

c. Signed and Stamped by

August 11, 2023

1=20'

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. Attach NOI Wetland Fee Transmittal Form

9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

058520
2. Municipal Check Number

8/18/2023
3. Check date

058518
4. State Check Number

8/18/2023
5. Check date

Nitsch Engineering
6. Payor name on check: First Name

7. Payor name on check: Last Name



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Provided by MassDEP:

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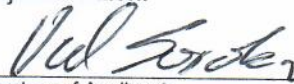

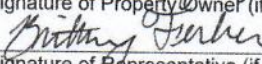
Melrose


City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.


 1. Signature of Applicant _____

 3. Signature of Property Owner (if different) _____

 5. Signature of Representative (if any) _____


 2. Date _____
 4. Date 8/8/23
 6. Date 8/4/23

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

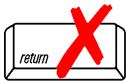
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
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NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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



A. Applicant Information

1. Location of Project:

Melrose Street and Lynn Fells Parkway Melrose
 a. Street Address b. City/Town
\$1,050
 c. Check number d. Fee amount

2. Applicant Mailing Address:

Val Soroka
 a. First Name b. Last Name
Department of Conservation and Recreation
 c. Organization
10 Park Plaza, Suite 6620
 d. Mailing Address
Boston MA 02116
 e. City/Town f. State g. Zip Code
617-626-1250 val.soroka@mass.gov
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

Priscilla Geigis
 a. First Name b. Last Name
Department of Conservation and Recreation
 c. Organization
10 Park Plaza, Suite 620
 d. Mailing Address
Boston MA 02116
 e. City/Town f. State g. Zip Code
617-626-4986 priscilla.geigis@mass.gov
 h. Phone Number i. Fax Number j. Email Address

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



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B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 3 (Road Construction)	1	\$1,050	\$1,050
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Step 5/Total Project Fee: _____

Step 6/Fee Payments:

Total Project Fee:	<u>\$1,050</u>
State share of filing Fee:	<u>\$512.50</u>
City/Town share of filing Fee:	<u>\$537.50</u>
	a. Total Fee from Step 5
	b. 1/2 Total Fee less \$12.50
	c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

SECTION 2 Project Narrative

Executive Summary

On behalf of the Applicant, the Department of Conservation and Recreation (DCR), Nitsch Engineering, Inc. is filing the enclosed Notice of Intent (NOI) with the Melrose Conservation Commission for the proposed intersection improvements which are partially located within jurisdictional wetland resource areas (subsequently referred to as the "Project"). The purpose of this NOI Application is to seek an Order of Conditions from the Melrose Conservation Commission approving the proposed project under the *Wetlands Protection Act* (M.G.L. c. 131, §40), the *Rivers Protection Act* (M.G.L. c. 256, Acts of 1996) and their Regulations (310 CMR 10.00).

The Project site is located at the intersection of Lynn Falls Parkway and Melrose Street in Melrose, Massachusetts. The Project consists of the mill and overlay of portions of Lynn Falls Parkway and Melrose Street, and safety improvements. Safety improvements include realigning the curb layout, reconstructing pedestrian ramps, and the installation of new traffic signals and signage.

The site is partially located within jurisdictional wetland resource areas, including 100-foot buffer to Bordering Vegetated Wetland (BVW) and Bordering Land Subject to Flooding (BLSF).

The proposed site improvements within the 100-ft buffer to BVW includes:

1. Mill and overlay of Lynn Falls Parkway
2. Replacement of existing sidewalk

The proposed site improvements within BLSF includes:

1. Mill and overlay of Lynn Falls Parkway and Melrose Street
2. Reconstruction of existing sidewalk and curb
3. Installation of new traffic signage and signals
4. Removal of paved traffic islands

The Project is considered a limited project under the Wetlands Protection Act (maintenance and improvement of existing public roadways, but limited to widening less than a single lane, adding shoulders, correcting substandard intersections, and improving drainage systems).

The Project will provide safety improvements to the intersection and will not adversely impact the adjacent wetland resource areas.

Existing Conditions

Existing Site Description

The 1.02-acre Project site is located at the intersection of Lynn Falls Parkway and Melrose Street in Melrose, Massachusetts (Figure 1 – USGS Locus Map and Figure 2 – Aerial Locus Map). The existing site within the limit of work for the project consists of two roadways, pedestrian ramps, sidewalk, and grass strips.

Stormwater runoff from the Project site flows overland to standard catch basins within Lynn Falls Parkway and Melrose Street and is discharged either to adjacent BVW or to an underground culvert to the northwest of the site. See Stormwater Report for further details.

Under existing conditions, the intersection of Lynn Falls Parkway and Melrose Street is unsignalized. Lynn Falls Parkway approaches from the east and west, and Melrose Street approaches from the northwest and southeast. Crystal Street approaches Melrose Street from the south immediately southeast of Lynn Falls Parkway and

operates as part of this intersection. Melrose Street and Crystal Street approaches are under Stop control, and the Lynn Fells Parkway approaches operate freely with no control. Furthermore, two businesses on the northeast corner of Lynn Fells Parkway and Melrose Street have access driveways that are within or immediately adjacent to the intersection: a Rockland Trust bank branch with an entry-only driveway within the intersection (which also provides access to the commercial/retail plaza to the north) and a Dunkin' with a Stop-controlled exit-only driveway immediately east of the intersection. Taken all together, the project intersection operates in effect as a seven-legged intersection with six approaches and five departures.

Wetland Resource Areas

The Project site is bordered to the southwest by a Bordering Vegetated Wetland (BVW) and contains the following jurisdictional wetland resource areas: 100-foot Buffer to BVW and Bordering Land Subject to Flooding (BLSF). LEC Environmental Consultants conducted a site visit on January 15, 2020 to delineate these resource areas as outlined in Table 1. Detailed information on these resources is provided in the Wetland Resource Area Analysis Report, prepared by LEC, provided in Section 3.

Table 1. Jurisdictional Wetland Resource Areas

Wetland Resource Area	General Location	Flag Numbers (if applicable)
Bordering Vegetated Wetland (BVW)	To the southwest of the intersection of Lynn Fells Parkway and Melrose Street	WF 1-22
Bordering Land Subject to Flooding (BLSF)	Throughout the intersection of Lynn Fells Parkway and Melrose Street	--

Local Jurisdictional Areas

The Town of Melrose Wetlands Protection Bylaw includes a No Disturbance Zone that extends 15 feet from the BVW and a No Construction Zone that extends 20 feet from the edge of the BVW. There is no work proposed in either the No Construction Zone or the No Disturbance Zone.

Other Environmental Considerations

FEMA Flood Zone

Based on the FEMA Flood Insurance Rate Maps for Melrose (Community Panel Number 25017C0429E), the Project site is located within the 100-year floodplain. The entire Site is located within a Zone AE with a base flood determination of Elevation 49.9 NAVD. This floodplain has been classified as Bordering Land Subject to Flooding (BLSF). Refer to Figure 3 FEMA Map.

NHESP Priority and Estimated Habitat

Based on MassGIS Priority Habitat GIS datalayers of the 15th Edition of the Natural Heritage Atlas, effective August 2021, the Project site is not located within designated Estimated Habitat of Rare Wildlife or Priority Habitat of Rare Species and does not contain any Certified Vernal Pools (Figure 4 – Natural Heritage and Endangered Species Program Map).

Proposed Conditions

Overview of Proposed Work

The DCR is proposing improvements to the intersection of Lynn Fells Parkway and Melrose Street. The existing project intersection is unsignalized and has operational issues that contribute to safety issues, as indicated by the pattern of crashes in recent years. The purpose of the project is to enhance safety and improve traffic operations within the project area. This will include circulation improvements, bicycle and pedestrian accommodations, and streetscape design elements. Intersection volumes are high enough that it meets traffic signal warrants. Through the process of conducting a traffic study and gathering public input, it was determined that the project would install a new traffic signal system at the project intersection.

Work on this project consists of geometric improvements at the intersection, curb bump-outs to shorten the pedestrian crossing, improved bicycle and pedestrian accessibility, new sign and pavement markings, drainage improvements, installation of a new traffic signal system, new pavement, ADA compliant pedestrian ramps, and other miscellaneous improvement. Refer to the attached plans for detailed proposed improvements.

The goals for the redesign of the Lynn Fells Parkway and Melrose Street intersection are to improve traffic operations by reducing delays for cross-street traffic and improve safety for all modes of travel. By signalizing the intersection and improving physical design elements, the community will benefit through reduced traffic delays and a safer intersection not only for vehicles, but for pedestrians and bicyclists as well. The signalization improvements will include a signal controller cabinet, signal mast arms, signal posts, and all other equipment needed to provide a fully functioning traffic signal system.

The existing catch basins will be replaced with catch basins with deep sumps and hoods. The proposed project will result in a slight net increase in the overall impervious area (pedestrian and vehicular pavement) of 2,100 square feet (Table 2).

Table 2. Existing and proposed land cover type for the Project

Land Use	Existing (sf)	Proposed (sf)	Change
Impervious Area	38,090	40,190	+2,100
Pervious Area	6,230	4,130	-2,100
Total	44,320	44,320	---

Snow Removal

Snow Removal for Lynn Fells Parkway is the responsibility of MassDOT and not DCR. Generally, snow will be moved to the edge of roads into the grass shoulders along the road.

Wetland Resource Area Impacts

The Project has been designed to limit disturbance in wetland resource areas to the maximum extent possible. However, due to the proximity of the Project site to the nearby wetland system, some of the proposed work will occur in the 100-foot Buffer to BVW and BLSF. No new impervious area is proposed within the 100-ft buffer to BVW. Table 3 and 3a provides a summary of the wetland resource areas impacted by the proposed project.

Table 3. Summary of alteration within jurisdictional wetland resource areas

Wetland Resource Area	Proposed Alteration Area (sf) (Temporary/Permanent)	New Impervious Area (sf)
Bordering Vegetated Wetland (BVW)	0	0
Bordering Land Subject to Flooding (BLSF)	27,440	500

Table 3a. Summary of alteration within Buffer Zones and Local Resource Areas

Wetland Resource Area	Proposed Alteration Area (sf) (Temporary/Permanent)	New Impervious Area (sf)
100-ft Buffer Zone to BVW	1,630	0
No Disturb Zone and No Construction Zone	0	0

Proposed Work Within Bordering Land Subject to Flooding

General Performance Standards for BLSF

1. Compensatory storage shall be provided for all flood storage volume that will be lost as the result of a proposed project within BLSF when said loss will cause an increase or will contribute incrementally to an increase in the horizontal extent and level of flood waters during peak flows.
2. Work within BLSF shall not restrict flows so as to cause an increase in flood stage or velocity.
3. Work in those portions of BLSF found to be significant to the protection of wildlife habitat shall not impair its capacity to provide important wildlife habitat functions. A project which alters up to 10% or 5,000 square feet of land in this resource area found to be significant to the protection of wildlife habitat shall not be deemed to impair its capacity to provide important wildlife functions.

The 100-year floodplain, designated at Elevation 49.9 by FEMA, encroaches throughout the intersection within the limits of the Project site. This area is protected as Bordering Land Subject to Flooding under the Wetlands Protection Act. The proposed work within BLSF includes mill and overlay of the existing roadway surfaces, removal of a paved/raised traffic island, reconfiguration of the existing curb layout, reconstruction of sidewalks and pedestrian ramps, and the installation of traffic striping, signs, and signals.

The Project also includes limited earthwork within BLSF that will modify the volume of flood storage below the 100-year flood elevation, although it will not result in a loss of flood storage volume. Calculations have been provided in Section 5 to show that the project is providing a net cut of 310 cubic yards which means compensatory storage is not required to be provided as part of this project.

The work proposed within the BLSF will not disturb any previously undeveloped areas and the proposed work will not result in a substantial change in surface cover. There are no obstructions proposed as part of the project that will restrict flows resulting in an increase in flood stage or velocity. Because the project will not disturb previously undeveloped areas, it can be assumed that no work is proposed in BLSF that is in an area found to be significant to the protection of wildlife habitat.



Proposed Work Within 100-foot Buffer Zone

The proposed site improvements within 100-foot Buffer Zone include:

1. Mill and Overlay of Lynn Fells Parkway and Melrose Street
2. Replacement of existing sidewalk

There is no proposed change in surface cover within the 100-ft Buffer Zone as part of this project.

Proposed Work Within No Construction and No Disturbance Zones

There is no proposed work within the No Construction or No Disturbance Zones of the BVW.

Proposed Mitigation Measures

The proposed project includes numerous mitigation measures to reduce the impact of the project on adjacent environmentally-sensitive areas.

Construction Period Erosion and Sedimentation Controls


Erosion and sedimentation controls are proposed to reduce the construction-related impact of the proposed project on adjacent wetland resource areas. Control measures will include, but are not limited to, minimizing land disturbance, providing temporary stabilization and covers, installing perimeter controls (silt fence and straw wattles/bales), and providing stormwater inlet protection (silt sack, straw wattles/bales). The contractor will be required to do inspections of all controls regularly to ensure that the controls are working properly. The contractor shall clean and reinstall any control that needs to be cleaned or replaced.

The proposed project will disturb more than one acre of land, which requires the filing of a National Pollutant Discharge Elimination System (NPDES) Stormwater Construction General Permit. To apply for coverage under this General Permit, a Notice of Intent will be submitted to the U.S. Environmental Protection Agency prior to the commencement of construction by the Contractor. The NPDES Notice of Intent requires the development and implementation of a Stormwater Pollution Prevention Plan (SWPPP) for construction activities. The SWPPP is a detailed erosion and sediment control plan that indicates the structural and non-structural erosion and sediment controls that will be employed, as appropriate, to control erosion on the construction site.

Construction Period Phasing and Stockpiling

Construction of this project will be done in phases such that two-way traffic is maintained at all times. We don't anticipate closure of any roadway that requires detouring of traffic for this project. One-Way alternative traffic will only occur for short-term temporary operations during non-peak hours with the approval of the DCR. Each phase of construction will be constructed in sub-phases to allow access to local business / abutters and to maintain traffic flow. Temporary ADA compliant pedestrian access will be provided where existing access is disturbed during the construction. At the end of each workday, all lanes will be open to traffic and no traffic control devices and construction vehicles / equipment will remain in the roadway which inhibits two-way traffic flow.

The construction of this project consists of resetting of existing curb, sidewalk reconstruction, pavement milling and overlay, and other miscellaneous improvements. We don't anticipate the need for stockpiling of construction materials at the project site. This project does not involve securing temporary or permanent easement and there is no space for the contractor to stockpile construction materials within the street right of way.



The Contractor shall stockpile construction materials off-site if needed or coordinate with DCR and the City of Melrose to secure permission to stockpile within the project site as needed. No stockpiles shall be located within the existing resource areas. Stockpile locations shall be by the contractor and approved by DCR and the Town of Melrose prior to the start of construction.

Post-Construction Stormwater Management

Deep-sump and hooded catch basins will be used to capture runoff and provide water quality treatment. The enclosed Stormwater Report thoroughly details the proposed stormwater management system and its compliance with local and state regulations.

The Stormwater Report includes an Operation and Maintenance Plan that was prepared in compliance with Standard 9 of the 2008 MassDEP Stormwater Handbook to provide best management practices for implementing maintenance activities for the stormwater management system in a manner that minimizes impacts to wetland resource areas. The project Owner has reviewed and agreed to implement the operation and maintenance practices outlined in the Plan.

Long-Term Pollution Prevention

A Long-Term Pollution Prevention Plan has been prepared in compliance with the Standards 4 and 9 of the 2008 Massachusetts Department of Environmental Protection (MassDEP) Stormwater Management Standards, which require provisions for the following:

- a. Good Housekeeping
- b. Storing materials and waste products inside or under cover
- c. Vehicle washing
- d. Routine inspections of stormwater best management practices
- e. Spill prevention and response
- f. Maintenance of lawns, gardens, and other landscaped areas
- g. Storage and used of fertilizers, herbicides, and pesticides
- h. Pet waste management
- i. Operation and management of septic systems
- j. Proper management of deicing chemicals and snow

The project Owner has reviewed and agreed to implement the management practices outlined in the Plan and proactively conduct operations at the Project site in an environmentally-responsible manner.

Conclusion

On behalf of the Applicant, Nitsch Engineering is filing the enclosed Notice of Intent (NOI) Application with the Melrose Conservation Commission for the construction improvements at the intersection of Lynn Fells parkway and Melrose Street. The project will require some alteration of Wetland Resource Areas under the Massachusetts Wetlands Protection Act (M.G.L. c. 131, §40) and its Regulations (310 CMR 10.00). This NOI report and supporting documentation provide a thorough description of the design details and regulatory compliance in accordance with the pertinent Wetland Statutes and Regulations. The Applicant seeks an Order of Conditions approving the Project as proposed.



SECTION 3 Wetland Resource Area Information

Wetland Resource Area Delineation Report

February 3, 2020

Email (bgurung@nitscheng.com)

Mr. Birendra Gurung, PE
 Nitsch Engineering
 2 Center Plaza, Suite 430
 Boston, MA 02108

**Re: Wetland Resource Area Analysis Report
 Intersection Improvements at Lynn Fells Parkway & Melrose Street
 Melrose, Massachusetts**

[LEC File #: NE\19-417.02]

Dear Mr. Gurung:

Pursuant to your request, LEC Environmental Consultants, Inc., (LEC) conducted a site evaluation and Wetland Resource Area boundary determination within 100 feet of the Melrose Street and Lynn Fells Parkway Intersection improvement project in Melrose, Massachusetts. Our site evaluation was conducted in accordance with the *Massachusetts Wetlands Protection Act* (the *Act*, M.G.L. c. 131, s. 40), its implementing Regulations (the *Act Regulations*, 310 CMR 10.00), the City of Melrose Wetlands Protection Ordinance (the *Ordinance*, Chapter 231), and the *Federal Clean Water Act* (33 U.S.C. 1344, s.404, the *CWA*) and its *Regulations* (33 CFR and 40 CFR, the *CWA Regulations*). LEC also employed the criteria provided in *Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act* (March 1995) and *Field Indicators for Identifying Hydric Soils in New England* (Version 4, May 2018). The following report provides a general site description, wetland delineation methodology, and a description of the Wetland Resource Areas and potential regulatory implications.

General Site Description

The Melrose Street and Lynn Fells Parkway Intersection is located west of Main Street, east of Tremont Street, and south of the Towers Plaza Shopping Center within the central, densely developed portion of Melrose, Massachusetts (Attachment A, Figure 1). The project limits include a 740± foot portion of Lynn Fells Parkway, a 530± foot portion of Melrose Street, a 340± foot portion of Crystal Street (see Photo 1.), and portions of the Rockland Trust Bank and Dunkin Donuts parking lots located on the northeast side of the intersection. Residential and commercial development are located north, east, and southeast of the project limits, Melrose High



Photo 1. Northerly view of the Melrose Street/Lynn Fells Parkway Intersection from Crystal Street

LEC Environmental Consultants, Inc.

www.lecenvironmental.com

12 Resnik Road
 Suite 1
 Plymouth, MA 02360
 508-746-9491
 508-746-9492 (Fax)

380 Lowell Street
 Suite 101
 Wakefield, MA 01880
 781-245-2500
 781-245-6677 (Fax)

100 Grove Street
 Suite 302
 Worcester, MA 01605
 508-753-3077
 508-753-3177 (Fax)

P. O. Box 590
 Rindge, NH 03461
 603-899-6726
 603-899-6726 (Fax)

PLYMOUTH, MA

WAKEFIELD, MA

WORCESTER, MA

RINDGE, NH

School and associated educational buildings are located northwest of the intersection, while Ell Pond Park, associated recreational field and tennis courts, and Ell Pond are located southwest of the intersection. A patch of undeveloped forested land containing uplands and wetlands occurs within Ell Pond Park adjacent to Ell Pond, immediately southwest of the intersection.



Photo 2. Westerly view of the forested uplands (left) and the sidewalk south of Lynn Fells Parkway.

Vegetation within the forested upland includes a sparse canopy of individuals of eastern white pine (*Pinus strobus*), northern red oak (*Quercus rubra*), black locust (*Robinia pseudoacacia*), Norway maple (*Acer platanoides*), and bigtooth aspen (*Populus grandidentata*). The dense understory is dominated by Tartarian honeysuckle (*Lonicera tatarica*), with entanglements of oriental bittersweet (*Celastrus orbiculatus*), and scattered patches of multiflora rose (*Rosa multiflora*). The ground cover includes patches of Japanese knotweed (*Polygonum cuspidatum*), and individuals of garlic mustard (*Alliaria petiolata*).

According to the Natural Resources Conservation Service (NRCS) Web Soil Survey for Middlesex County, land within 100 feet of the project limits consists of a variety of human-altered soils including *Urban land, wet substratum* soils, *Udorthents, wet substratum* soils, and *Urban land* soils. *Udorthents, wet substratum* soils are located within Ell Pond Park, in the area of LEC’s wetland delineation. A small portion of the eastern project limit consists of *Merrimac-Urban land complex, 0 to 8 percent slopes*. NRCS describes *Urban land* soils as areas where 85 percent of the land is covered by structures or impervious surfaces, *Urban land, wet substratum* as areas where 85 percent of the land is covered by structures or impervious surfaces, and where the underlying soil is dominated by fill material overlying wet soils. *Udorthents, wet substratum* soils are described as nearly level to hill areas of poorly drained and very poorly drained soils that have been filled in with various types of soil material, rubble, and refuse. *Merrimac-Urban land complex, 0 to 8 percent slopes* are described as areas consisting of very deep, somewhat excessively drained Merrimac and similar soils, and areas of *Urban land* on broad plains.

LEC inspected soil conditions within the forested upland using a hand-held, Dutch-style auger, and observed a 14-inch thick sandy loam topsoil (A horizon), with a soil matrix color of 10YR 3/2. Refusal in the form of stones was generally encountered at 14 inches. No redoximorphic features were observed throughout the soil profile, and therefore, the soil is not considered ‘hydric’ in accordance with the *Field Indicators for Identifying Hydric Soils in New England* (Version 4, May 2018).



Natural Heritage and Endangered Species Program (NHESP) Designation

According to the 14th Edition (August 1, 2017) of the Natural Heritage Endangered Species Program (NHESP) *Massachusetts Natural Heritage Atlas*, the project limits are not located within *Estimated Habitat of Rare Species* or *Priority Habitat of Rare Species*. In addition, there are no mapped certified or potential vernal pools on or in close proximity to the project limits (Attachment A, Figure 2).

Wetland Boundary Determination

On January 15, 2020, LEC conducted a site evaluation to identify and characterize existing protectable Wetland Resource Areas within 100 feet of the project limits, and to delineate their boundaries. The extent of Wetland Resource Areas was determined through observations of existing plant communities, hydrologic indicators, and bankfull indicators in accordance with the *Act*, the *Act Regulations*, the *Ordinance*, the *CWA*, and the *CWA Regulations*. Based on our observations and review of pertinent maps, LEC determined that the Wetland Resource Areas associated with the project are Bank to Ell Pond and Bordering Vegetated Wetland (BVW), which place the 100-foot Buffer Zone within the project limits, and Bordering Land Subject to Flooding (BLSF).

The boundary of BVW, the outermost wetland resource area, was demarcated in the field with blaze orange surveyor's flagging tape embossed with the words "LEC Resource Area Boundary" in bold, black print. The BVW flags are numbered 1 through 22.

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Forms are included to support the wetland delineation (Attachment B).

A brief description of the Wetland Resource Areas is provided below.

Bordering Vegetated Wetland

According to the *Act Regulations* [310 CMR 10.55(2)], Bordering Vegetated Wetlands are defined as: *freshwater wetlands which border on creeks, rivers, streams, ponds, and lakes...Bordering Vegetated Wetlands are areas where the soils are saturated and/or inundated such that they support a predominance of wetland indicator plants...The boundary of Bordering Vegetated Wetlands is the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist.*

According to the *Ordinance* (Chapter 231-11), wetlands are *any freshwater wetlands, marshes, wet meadows, bogs, swamps, vernal pools, banks, lakes, ponds of any size, rivers, streams (including intermittent streams), creeks, or lands subject to flooding or inundation by groundwater or surface water.*

A BVW occurs along the Bank and within low-lying areas proximate to Ell Pond, southwest of the project limits. The BVW, classified as a palustrine forested wetland, occurs along a gentle break in topography paralleling Lynn Fells Parkway. A culvert discharges into the BVW proximate to wetland flag 8. The BVW is coincident with the top of Bank to Ell Pond proximate to wetland flags 4 and 5, where a culvert discharges into the northern most tip of Ell Pond.

Vegetation within the forested BVW includes a canopy dominated by red maple (*Acer rubrum*), with patches of ash (*Fraxinus* sp.), and individuals of box elder (*Acer negundo*), willow (*Salix* sp.), and American elm (*Ulmus americana*). The understory contains patches of sapling ash and other saplings from the canopy, with individuals of silky dogwood (*Cornus amomum*), glossy buckthorn (*Frangula alnus*), American cranberrybush (*Viburnum trilobum*), and Tartarian honeysuckle. The ground cover contains patches of jewelweed (*Impatiens capensis*), individual patches of sensitive fern (*Onoclea sensibilis*), and individuals of purple loosestrife (*Lythrum salicaria*) and Japanese knotweed.



Photo 3. Southerly view of the forested wetland

LEC inspected soil conditions using a hand-held, Dutch-style auger within the forested BVW and observed a 20-inch thick, sapric organic layer (O_a layer) underlain by a very fine sandy loam subsoil (B_g horizon) with a soil matrix color of 10YR 3/2 and redoximorphic concentrations of 5YR 4/6 and depletions of 10YR 4/1. This soil profile meets the Histosol indicator (A1.) for a hydric soil, in accordance with *Field Indicators for Identifying Hydric Soils in New England* (Version 4, May 2018).

Bank to Ell Pond

According to the *Act Regulations* [310 CMR 10.54 (2) (c)], Bank is the first observable break in slope or the mean annual flood level, whichever is lower. The lower boundary of a Bank is the mean annual low flow level.

According to the *Ordinance* (Chapter 231-11), Bank includes the land area which normally abuts and confines a water body, the lower boundary being the mean annual low flow level and the upper boundary being the first observable break in the slope or the mean annual flood level, whichever is higher.

The Bank to Ell Pond occurs along a vegetated, gradual to abrupt Bank along its entire perimeter. The pond extends northerly into a finger-like projection to a culvert located beneath Lynn Fells Parkway. Unidirectional flow was not observed within this finger-like projection. Vegetation along the Bank is variable, but generally includes many of the scattered canopy trees, shrubs, saplings, and groundcover plants listed in the BVW description above.



Photo 4. Southerly view of Bank to Ell Pond



Bordering Land Subject to Flooding (BLSF)

According to the *Act Regulations* [310 CMR 10.57 2 (a)], BLSF is defined as *an area with low, flat topography adjacent to and inundated by flood waters rising from creeks, rivers, streams, ponds or lakes. It extends from the banks of these waterways and water bodies; where a bordering vegetated wetland occurs, it extends from said wetland.*

According to the *Ordinance* (Chapter 231-11), Land Subject to Flooding is the *area bounded by the estimated maximum lateral extent of floodwater which would result from the statistical one-hundred-year frequency storm. Said boundary shall be that determined by reference to the most recently available data prepared for the community under the National Flood Insurance Program (NFIP, currently administered by the Federal Emergency Management Agency, successor to the U.S. Department of Housing and Urban Development).*

According to the June 4, 2010 FEMA Flood Insurance Rate Maps (FEMA FIRMs) for Middlesex County, Massachusetts (Map Numbers: 25017C0429E and 25017C0433E) and the FEMA Letter of Map Revision (LOMR) for the City of Melrose effective December 3, 2018 (Case Number 18-01-0626P), the Site is predominantly located within Zone AE (elevation 49.9, NAVD 88): *Special Flood Hazard Areas (SFHAs) subject to inundation by the 1% annual chance flood; Base Flood Elevations determined (Attachment A). A portion of the eastern project limits is located within Zone X (shaded): Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.*

BLSF is present within the project limits where Zone AE extends beyond the outermost BVW or Bank boundary to Elevation 49.9 NAVD88.

Summary

LEC conducted a site evaluation and wetland delineation on January 15, 2020 to determine the extent of Wetland Resource Areas subject to jurisdiction under the *Act*, *Act Regulations*, the *Ordinance*, the *CWA*, and *CWA Regulations*. Based on our site evaluation and review of pertinent maps, LEC determined that while there are no Wetland Resource Areas within the project limits, offsite BVW and Bank places the 100-foot Buffer Zone onto the project limits, as jurisdictional under the *Act* and *Ordinance*. Any work proposed within the 100-foot Buffer Zone will require compliance with performance standards enumerated in the *Act Regulations* and the *Ordinance*, and filing for the appropriate permits with the City of Melrose Conservation Commission and/or the Massachusetts Department of Environmental Protection, and may require additional wetlands permitting depending on the extent and scope of work.

Thank you for the opportunity to provide these services. Should you have any questions or require additional information, do not hesitate to contact me in our Worcester office at 508-753-3077 or at akendall@lecenvironmental.com.

Sincerely,

LEC Environmental Consultants, Inc.

Andrea Kendall
Senior Environmental Scientist

Julia Hoogeboom
Wetland Specialist

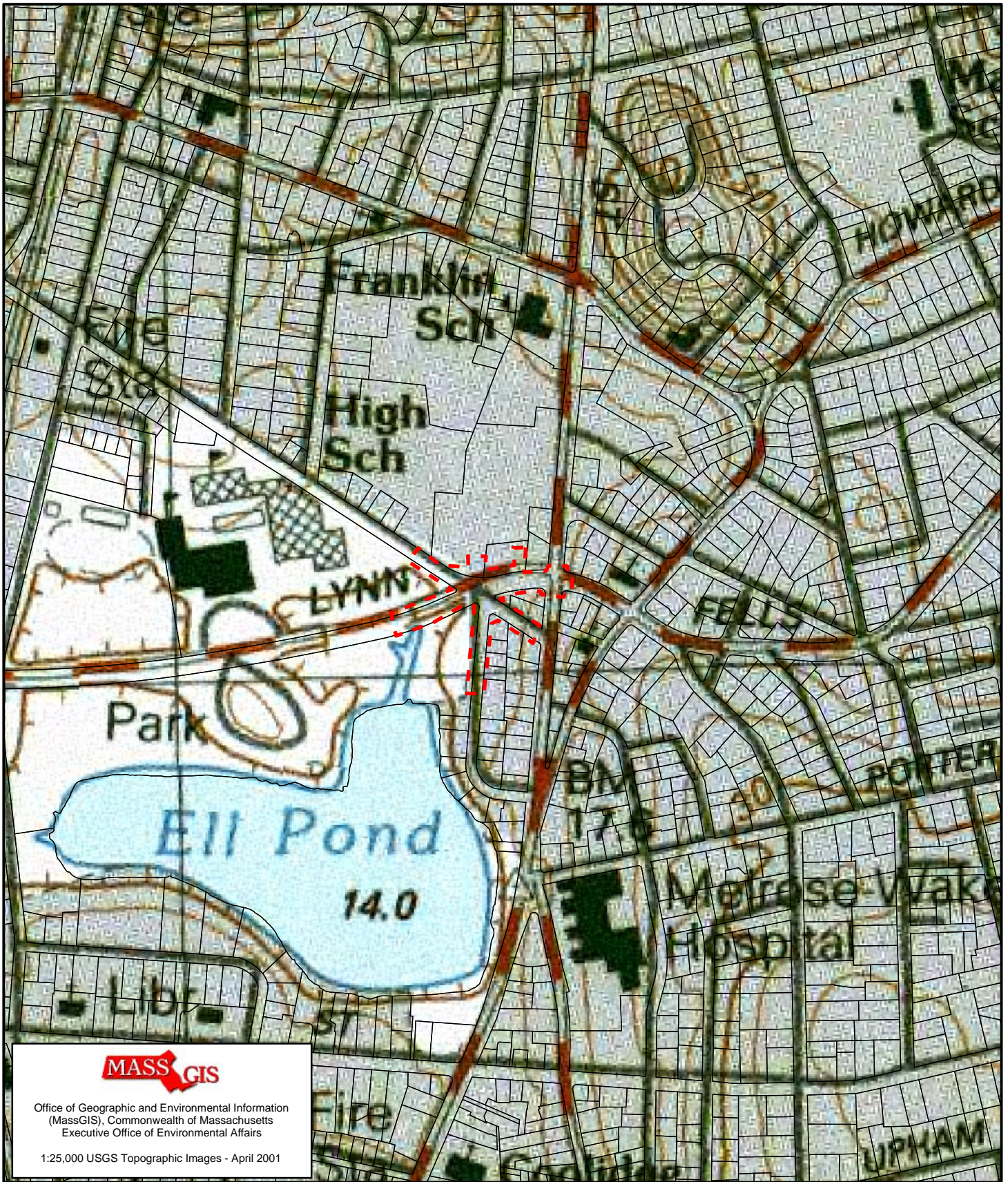
Attachment A

Figure 1: USGS Topographic Map

Figure 2: USGS Color Ortho Imagery with NHESP Estimated & Priority Habitats

Figures 3a & 3b: FEMA Flood Insurance Rate Maps

Letter of Map Revision Determination Document, effective date: December 3, 2018



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

1:25,000 USGS Topographic Images - April 2001



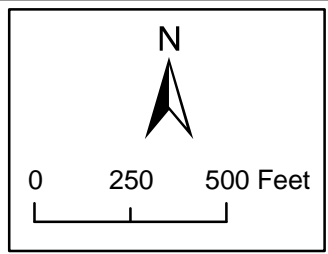
Environmental Consultants, Inc.

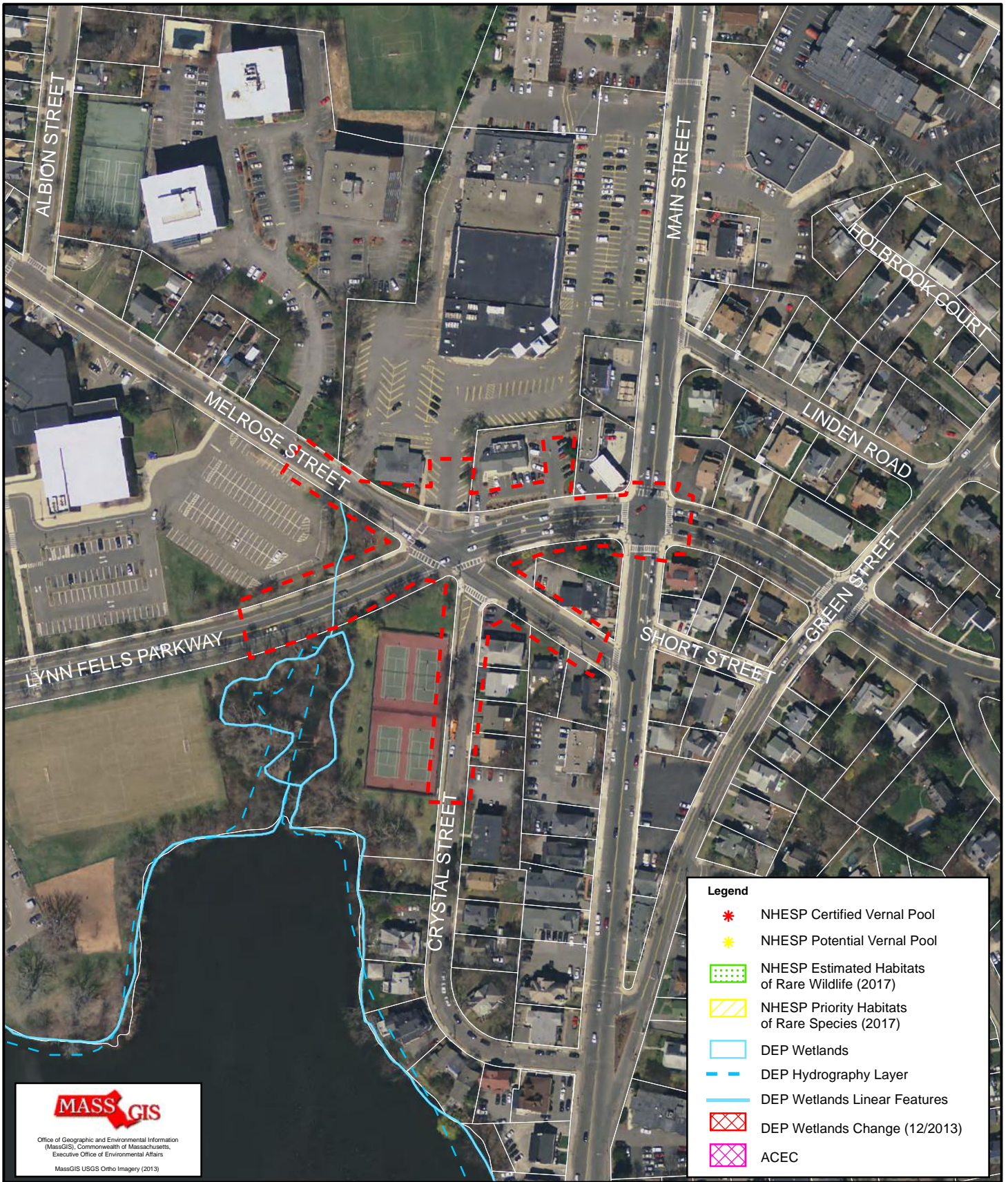
Wakefield, MA
781.245.2500

www.lecenvironmental.com

Lynn Fells Parkway/Melrose Street/
Crystal Street/Main Street
Melrose, MA

November 12, 2019

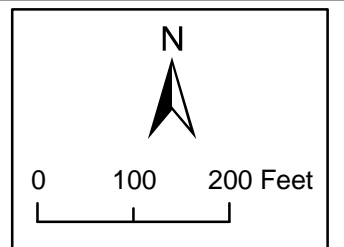


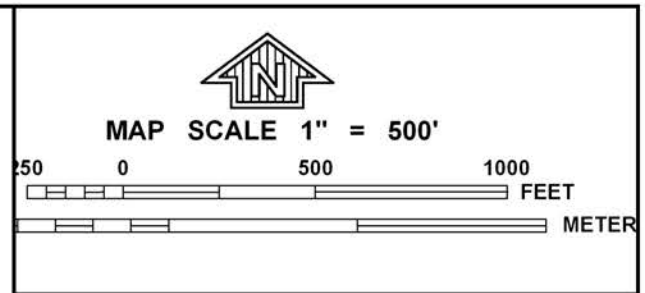


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Lynn Fells Parkway/Melrose Street/
 Crystal Street/Main Street
 Melrose, MA

November 12, 2019





NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0429E

FIRM
FLOOD INSURANCE RATE MAP
MIDDLESEX COUNTY,
MASSACHUSETTS
 (ALL JURISDICTIONS)

PANEL 429 OF 656
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MALDEN, CITY OF	250202	0429	E
MEDFORD, CITY OF	250205	0429	E
MELROSE, CITY OF	250206	0429	E
STONEHAM, TOWN OF	250215	0429	E

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

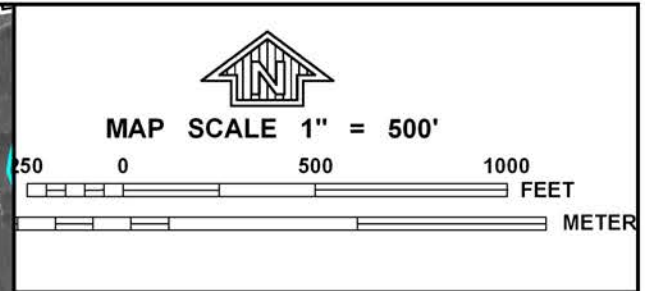


MAP NUMBER
25017C0429E

EFFECTIVE DATE
JUNE 4, 2010

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0433E

FIRM
FLOOD INSURANCE RATE MAP

**MIDDLESEX COUNTY,
MASSACHUSETTS
(ALL JURISDICTIONS)**

PANEL 433 OF 656
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MALDEN, CITY OF	250202	0433	E
MELROSE, CITY OF	250206	0433	E

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
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LEGEND



SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

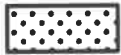
The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.



FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.



OTHER FLOOD AREAS

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.



OTHER AREAS

- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.



COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS



OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.



1% annual chance floodplain boundary



0.2% annual chance floodplain boundary



Floodway boundary



Zone D boundary



CBRS and OPA boundary



Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.



(EL 987)

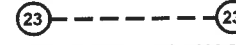
Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988



Cross section line



Transect line

87°07'45", 32°22'30"

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere

2476⁰⁰⁰mN

1000-meter Universal Transverse Mercator grid values, zone 19

600000 FT

5000-foot grid values: Massachusetts State Plane coordinate system, Mainland zone (FIPZONE 2001), Lambert Conformal Conic projection

DX5510 x

Bench mark (see explanation in Notes to Users section of this FIRM panel)

● M1.5

River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
June 4, 2010

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	City of Melrose Middlesex County Massachusetts	CULVERT	HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 250206		
IDENTIFIER	Ell Pond H&H Analysis Update	APPROXIMATE LATITUDE & LONGITUDE: 42.460, -71.065 SOURCE: Other DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 25017C0429E DATE: June 4, 2010 TYPE: FIRM* NO.: 25017C0433E DATE: June 4, 2010		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: July 06, 2016 STILLWATER ELEVATION TABLE: 9	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map

FLOODING SOURCE(S) & REVISED REACH(ES)

Ell Pond – The entire pond of Ell Pond

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Ell Pond	Zone AE	Zone AE	NONE	YES
	Zone X (shaded)	Zone X (shaded)	NONE	YES
	BFEs*	BFEs	NONE	YES

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

Patrick "Rick" F. Sacbibit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

NFIP regulations Subparagraph 60.3(b)(7) requires communities to ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management ordinances; therefore, responsibility for maintenance of the altered or relocated watercourse, including any related appurtenances such as bridges, culverts, and other drainage structures, rests with your community. We may request that your community submit a description and schedule of maintenance activities necessary to ensure this requirement.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

A handwritten signature in black ink, appearing to read "Rick F. Sacbibit".

Patrick "Rick" F. Sacbibit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency
Washington, D.C. 20472

**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Dean Savramis
Director, Mitigation Division
Federal Emergency Management Agency, Region I
99 High Street, Sixth Floor
Boston, MA 02110
(617) 832-4761

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel(s) and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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Patrick "Rick" F. Sacbibit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency
Washington, D.C. 20472

**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

PUBLIC NOTIFICATION OF REVISION

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below, and through FEMA's Flood Hazard Mapping website at https://www.floodmaps.fema.gov/fhm/bfe_status/bfe_main.asp

LOCAL NEWSPAPER

Name: *Melrose Weekly News*

Dates: July 27, 2018 and August 3, 2018

Within 90 days of the second publication in the local newspaper, any interested party may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination presented in this LOMR may be changed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 3601 Eisenhower Avenue, Suite 500, Alexandria, VA 22304-6426. Additional Information about the NFIP is available on our website at <http://www.fema.gov/nfip>.

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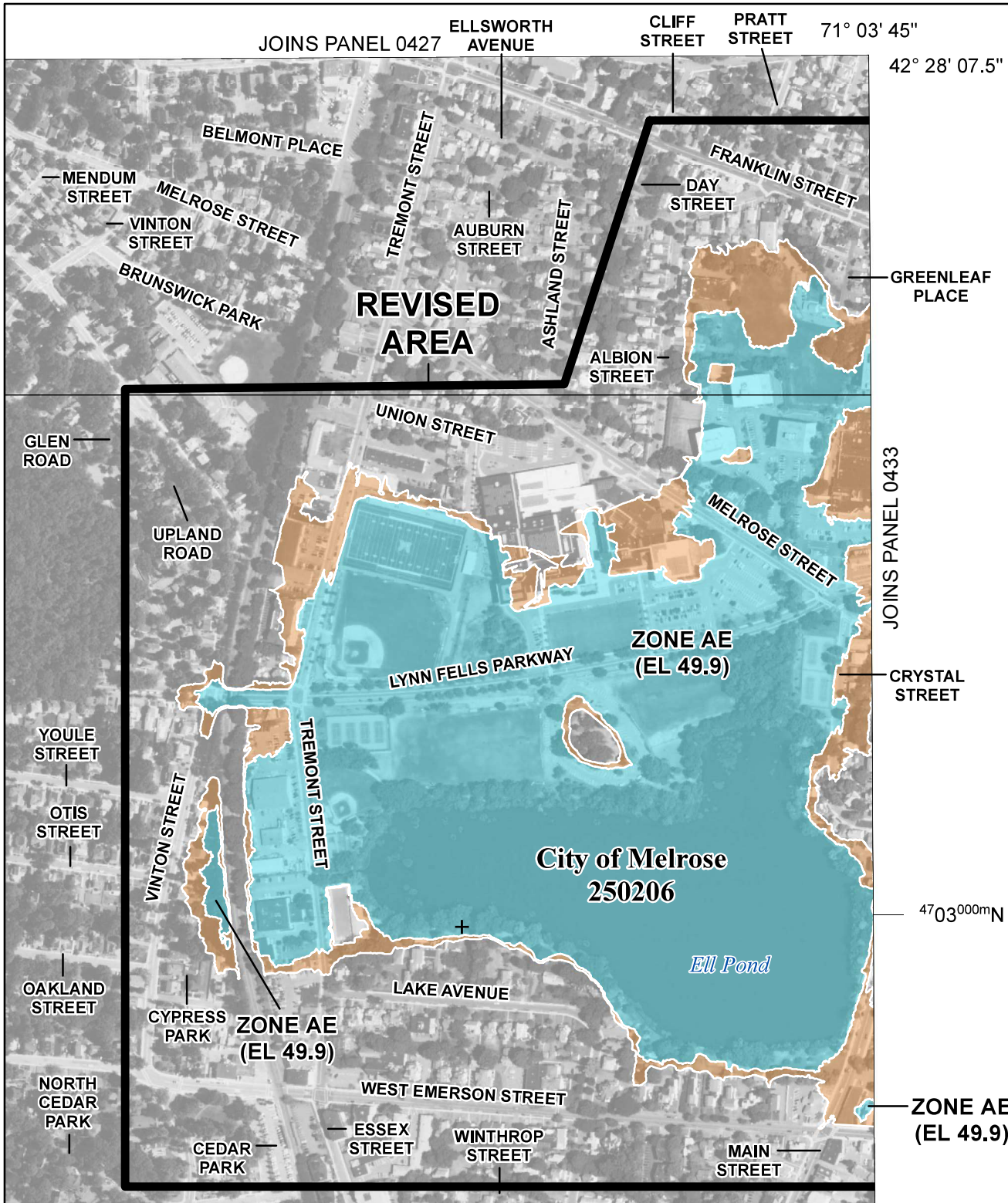
Patrick "Rick" F. Sacbbit, P.E., Branch Chief
Engineering Services Branch
Federal Insurance and Mitigation Administration

TABLE 9 - SUMMARY OF STILLWATER ELEVATIONS

<u>FLOODING SOURCE AND LOCATION</u>	<u>ELEVATION (feet NAVD88)</u>			
	<u>10-PERCENT</u>	<u>2-PERCENT</u>	<u>1-PERCENT</u>	<u>0.2-PERCENT</u>
ELL POND Entire shoreline within Melrose	47.0	49.1	49.9	52.6


REVISED DATA

**REVISED TO
REFLECT LOMR
EFFECTIVE: December 3, 2018**



SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A,V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee See Notes. Zone X

SCALE

Map Projection:
NAD 1983 StatePlane Massachusetts Mainland FIPS 2001 Feet;
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 1,000 Feet

0 75 150 300 Meters

FEMA
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

MIDDLESEX COUNTY, MASSACHUSETTS
All Jurisdictions

PANEL **429** OF **656**

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
MALDEN, CITY OF	250202	0429	E
MEDFORD, CITY OF	250205	0429	E
MELROSE, CITY OF	250206	0429	E
STONEHAM, TOWN OF	250215	0429	E

REVISED TO REFLECT LOMR EFFECTIVE: December 3, 2018

VERSION NUMBER 2.3.2.0
MAP NUMBER 25017C0429E
EFFECTIVE DATE JUNE 4, 2010

71° 03' 45"

42° 28' 07.5"

JOINS PANEL 0431

City of Melrose
250206

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee See Notes. Zone X

SCALE

Map Projection:
NAD 1983 StatePlane Massachusetts Mainland FIPS 2001 Feet;
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 250 500 1,000 Feet

0 75 150 300 Meters

ZONE AE (EL 49.9)
2995000 FT

FLOODING EFFECTS FROM ELL POND

ZONE AE (EL 49.9)

FLOODING EFFECTS FROM ELL POND

ZONE AE (EL 49.9)

FLOODING EFFECTS FROM ELL POND

ZONE AE (EL 49.9)

MAIN STREET
GREEN STREET
LEBANON STREET
ROWE STREET
HILLSIDE AVENUE
BELLEVUE AVENUE
ORIENT AVENUE

FAIRVIEW AVENUE
DAMON AVENUE
HOWARD STREET
CLIFFORD STREET
ALBERT STREET
AVON STREET
ELM STREET
OLD BROOK CIRCLE
LYNN FIELDS PARKWAY
LARCHMONT ROAD
HOLBROOK COURT
LINDEN ROAD
BURRELL STREET
KENISTON ROAD
HARDING ROAD
LINCOLN STREET
MARRIMON ROAD
BATCHELDER STREET
BELLEVUE AVENUE
PORTER STREET
BEVERLY STREET
ORIENT PARK
STRAFORD ROAD
GARFIELD ROAD
SAWYER ROAD

REVISED AREA

FEMA
National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

MIDDLESEX COUNTY, MASSACHUSETTS
All Jurisdictions

PANEL 433 OF 656

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
MALDEN, CITY OF	250202	0433	E
MELROSE, CITY OF	250206	0433	E

REVISED TO REFLECT LOMR EFFECTIVE: December 3, 2018

VERSION NUMBER 2.3.2.0
MAP NUMBER 25017C0433E
EFFECTIVE DATE JUNE 4, 2010

NORMAN ROAD
HILLCREST AVENUE
SCHOOL STREET
UPHAM STREET
ENMORE ROAD
BROOKLEDGE ROAD
ASHCROFT ROAD
THIRTEENTH STREET
ARDSMOOR ROAD
WAVERLY AVENUE
EAST STREET
HIGHVIEW AVENUE

Attachment B

MassDEP Bordering Vegetated Wetland Delineation Field Data Forms

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: _____ Prepared by: LEC Environmental Consultants, Inc Project location: Lynn Fells Pkwy/Melrose St. Intersection, Melrose, MA
 Julia Hoogeboom, Wetland Specialist LEC File #: NEI\19-417.02 DEP File #: _____

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- 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: 2 (Upland)		Transect Number: 1 (WF 19)	Date of Delineation: January 15, 2020 Date of Data Collection: January 27, 2020
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (Midpoints used)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category* Dominant plants in Bold
Ground cover (Absent)				
Shrub				
Multiflora rose (<i>Rosa multiflora</i>)	20.5%	50%	Yes	FACU
Glossy buckthorn (<i>Frangula alnus</i>)	10.5%	25%	Yes	FAC*
Tatarian honeysuckle (<i>Lonicera tatarica</i>)	10.5%	25%	Yes	FACU
Sapling				
Norway maple (<i>Acer platanoides</i>)	10.5%	100%	Yes	UPL
Canopy				
Norway maple (<i>Acer platanoides</i>)	20.5%	100%	Yes	UPL

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 1

Number of dominant non-wetland indicator plants: 4

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no
 title/date: NRCS Web Soil Survey and Middlesex County,
 Massachusetts, Version 19, September 12, 2019
 map number: N/A
 soil type mapped: Udorthents, wet substratum
 hydric soil inclusions: Freetown, Swansea

Are field observations consistent with soil survey? yes no
 Remarks: Refusal was generally encountered within the A horizon and therefore the underlying soils could not be observed, however, the topsoil was consistent with what is described in the soil survey in texture and color.

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-14"	10YR 3/2 sandy loam	
Refusal @ 14" (stones)			

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- 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 rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- Other: _____

Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants		X
Wetland hydrology present:		
Hydric soil 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.

MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: _____ Prepared by: LEC Environmental Consultants, Inc Project location: Lynn Fells Pkwy/Melrose St. Intersection, Melrose, MA
 Julia Hoogeboom, Wetland Specialist LEC File #: NEI\19-417.02 DEP File #: _____

Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- 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: 1 (Wetland)		Transect Number: 1 (WF 19)	Date of Delineation: January 15, 2020 Date of Data Collection: January 27, 2020
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (Midpoints used)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category* Dominant plants in Bold
Groundcover (absent)				
Shrub				
Glossy buckthorn (<i>Frangula alnus</i>)	10.5%	11%	No	FAC*
Silky dogwood (<i>Cornus amomum</i>)	63.0%	67%	Yes	FACW*
Multiflora rose (<i>Rosa multiflora</i>)	20.5%	22%	Yes	FACU
Sapling				
Black ash (<i>Fraxinus nigra</i>)	10.5%	100%	Yes	FACW*
Woody vines				
Grape (<i>Vitis</i> sp.)	10.5%	100%	Yes	FAC* (presumed)
Canopy				
Red maple (<i>Acer rubrum</i>)	10.5%	50%	Yes	FAC*
American elm (<i>Ulmus americana</i>)	10.5%	50%	Yes	FACW*

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 5

Number of dominant non-wetland indicator plants: 1

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes no

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no
 title/date: NRCS Web Soil Survey and Middlesex County,
 Massachusetts, Version 19, September 12, 2019
 map number: N/A
 soil type mapped: Udorthents, wet substratum
 hydric soil inclusions: Freetown, Swansea

Are field observations consistent with soil survey? yes no
 Remarks: Field observations are consistent with what is described in the soil survey.

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
O _a	0-20"	10YR 2/1	
B _g	20-24"	10YR 3/2 very fine sandy loam	10YR 4/1 5YR 4/6

Remarks:

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: saturated to surface
- Water marks: _____
- Drift lines: _____
- Sediment Deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- Other: _____

Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	X	_____
Wetland hydrology present:		
Hydric soil 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.



SECTION 4 Documentation of Abutter Notification

Abutter Notification

Affidavit of Service

Certified Abutters List

**NOTIFICATION TO ABUTTERS
UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT**

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following:

- A. The name of the Applicant is the Massachusetts Department of Conservation and Recreation
- B. The Applicant has filed a Notice of Intent with the Melrose Conservation Commission to remove, fill, dredge or alter an Area Subject to Protection under the Wetlands Protection Act (General Laws Chapter 131, Section 40).

The project consists of the mill and overlay of portions of Lynn Fells Parkway and Melrose Street, and safety improvements to the intersection. Safety improvements include realigning the curb layout, reconstructing pedestrian ramps, and the installation of new traffic signals, signage, and striping.

- C. The location of the proposed activity is at the intersection of Melrose Street and Lynn Fells Parkway.
- D. Copies of the Notice of Intent may be examined at the Melrose Conservation Commission (562 Main Street) between the hours of 8:30 am and 4:00 pm, Monday -Thursday and 8:30 am and 12:30pm, Friday.
- E. Copies of the Notice of Intent may be obtained from the applicant's representative: Please contact Birendra Gurung at Nitsch Engineering, Inc. at (617) 338-0063 between 8:30 am and 5:30 pm, Monday through Friday.
- F. Information regarding the date, time, and place of the Public Hearing may be obtained from the Melrose Conservation Commission by calling 781-979-4312 between the hours of 8:30 am and 4:00 pm, Monday -Thursday and 8:30 am and 12:30pm, Friday.

The Public Hearing for the proposed project will be held during the Melrose Conservation Commission meeting on Thursday, September 21, 2023 at 7:30 PM.

Remote Meeting Access provided at <https://www.cityofmelrose.org/remote-meetings>

- NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in the Melrose Free Press.
- NOTE: Notice of the public hearing, including its date, time, and place, will be posted at Melrose Town Hall, 562 Main Street not less than forty-eight (48) hours in advance.
- NOTE: You may contact the nearest Department of Environmental Protection Regional office for more information about this application or the Wetlands Protection Act. To contact DEP, call: Northeast Region: 978-661-7600


AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

I, Brittney Ferber, hereby certify under the pains and penalties that at least one week prior to the public hearing, I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the DEP guide to Abutter Notification dated April 8, 1994, in connection to the following matter:

Submission of a Notice of Intent to the Melrose Conservation Commission for the work associated with the proposed Intersection Improvements Project at the intersection of Melrose Street and Lynn Fells Parkway was filed on August 21, 2023. The project includes safety improvements and roadway maintenance to Lynn Fells Parkway and Melrose Street.

The form of notification and the list of abutters to whom it was given, is attached to the Affidavit of Service.



Brittney Ferber

8/21/2023
Date

abutters_id_field	abutters_owner1	abutters_owner2	abutters_address	abutters_address2	abutters_town	abutters_state	abutters_zip	abutters_bookpage	abutters_location
C10 0 1	ELL POND PARK,(PAVILLION,BLDG	+BATHHOUSE)	LYNN FELLS PKWY		MELROSE	MA	02176	2727-231	LYNN FELLS PKWY
C10 0 3	MELROSE HIGH,SCHOOL	C10+C11 MAPS+PCLS	350 LYNN FELLS PKWY		MELROSE	MA	02176	5633-569	350 LYNN FELLS PKWY
C11 0 73A1A	TIMONY MARI BETH	MARI BETH TIMONY REV TR	87 COTTAGE ST		MELROSE	MA	02176	78713-231	53 MELROSE ST UNIT A1A
C11 0 73A1B	MERZIC, JASMIN	AMRA MERZIC, TE	53 MELROSE ST 1B		MELROSE	MA	02176	53499-274	53 MELROSE ST UNIT A1B
C11 0 73A1C	ANDREWS ERIC		53 MELROSE ST		MELROSE	MA	02176	75705-477	53 MELROSE ST UNIT A1C
C11 0 73A1D	SHANDELMAN, STELLA		53 MELROSE ST #1D		MELROSE	MA	02176	38865-161	53 MELROSE ST UNIT A1D
C11 0 73A1E	ZOMORODIAN MOHAMMAD	FASSIHI LANGROODI SAYEDEH	7 CANTERBURY LN		NORTH READING	MA	01864	75212-47	53 MELROSE ST UNIT A1E
C11 0 73A2A	SHAIKER, STEVEN S.		53 MELROSE ST UNIT 2A		MELROSE	MA	02176	70001-326	53 MELROSE ST UNIT A2A
C11 0 73A2B	JOHNSON, JOANNE		53 MELROSE ST UNIT 2		MELROSE	MA	02176		53 MELROSE ST UNIT A2B
C11 0 73A2C	DIMARE MARIO	DIMARE CAROL	53 MELROSE ST		MELROSE	MA	02176	77939-72	53 MELROSE ST UNIT A2C
C11 0 73A2D	OLESON, CLAUDINE L.	LINDA JENCYOWSKI, TRUSTEE	53 MELROSE ST. UNIT 2D		MELROSE	MA	02176	72234-399	53 MELROSE ST UNIT A2D
C11 0 73A2E	BARRANCO, GINA M.		53 MELROSE ST	UNIT 2E	MELROSE	MA	02176	46981-2	53 MELROSE ST UNIT A2E
C11 0 73A2F	DAKAI MU	YI GONG	53 MELROSE ST.		MELROSE	MA	02176	81381-566	53 MELROSE ST UNIT A2F
C11 0 73A2G	RITTMAYER, ELENA E.		53 MELROSE ST. #2G		MELROSE	MA	02176	65502-515	53 MELROSE ST UNIT A2G
C11 0 73A2H	MAN, SIMPSON	KRISTINA MAN, HWTE	53 MELROSE ST U#2H		MELROSE	MA	02176	69137-65	53 MELROSE ST UNIT A2H
C11 0 73A3A	STEPHEN G. CURRY		53 MELROSE ST.		MELROSE	MA	02176	81333-508	53 MELROSE ST UNIT A3A
C11 0 73A3B	DEWING-COVELL REV. TRUST	CAROL A. DEWING-COVELL TRSTEE	53 MELROSE ST. #3B		MELROSE	MA	02176	69301-180	53 MELROSE ST UNIT A3B
C11 0 73A3C	LIZOTTE, RICHARD ET ALS	MARK R AND DAVID A LIZOTTE	53 MELROSE ST #3C		MELROSE	MA	02176	46009-518	53 MELROSE ST UNIT A3C
C11 0 73A3D	SHEETS MARGARET		53 MELROSE ST UNIT 3D		MELROSE	MA	02176	79729-20	53 MELROSE ST UNIT A3D
C11 0 73A3E	CHIMINELLO, FRANK J. JR.	ETHEL B. CHIMINELLO, HWTE	19 BANCROFT ROAD		MELROSE	MA	02176	64242-32	53 MELROSE ST UNIT A3E
C11 0 73A3F	LYUBARSKY, MARYAM S		53 MELROSE ST UNIT 3		MELROSE	MA	02176	41607-331	53 MELROSE ST UNIT A3F
C11 0 73A3G	TASKER, RICHARD IND		11 GRANDVIEW AV		MELROSE	MA	02176	44208-182	53 MELROSE ST UNIT A3G
C11 0 73A3H	GORTON,ROBERT	BARBARA GORTON HWTE	53 MELROSE ST UT 3H		MELROSE	MA	02176	25108-567	53 MELROSE ST UNIT A3H
C11 0 73A4A	CHIMINELLO, CHRISTINE M.		53 MELROSE ST.#4A		MELROSE	MA	02176	62217-180	53 MELROSE ST UNIT A4A
C11 0 73A4B	CORREIA,JOSEPH A		11 GAP HEAD RD		ROCKPORT	MA	01966		53 MELROSE ST UNIT A4B
C11 0 73A4C	MALZONE,JULIEANN		53 MELROSE ST		MELROSE	MA	02176	30561-250	53 MELROSE ST UNIT A4C
C11 0 73A4D	WEINER, ROBERT	EVA WEINER, JTRS	53 MELROSE ST UNIT 4D		MELROSE	MA	02176	65850-229	53 MELROSE ST UNIT A4D
C11 0 73A4E	TUCCINARDI NICHOLAS		53 MELROSE ST		MELROSE	MA	02176	75100-468	53 MELROSE ST UNIT A4E
C11 0 73A4F	KARAVOUSSIANI DEMI		53 MELROSE ST		MELROSE	MA	02176	78584-198	53 MELROSE ST UNIT A4F
C11 0 73A4G	MANIQUIS, MARINELA N.		53 MELROSE ST UNIT 4G		MELROSE	MA	02176	54763-395	53 MELROSE ST UNIT A4G
C11 0 73A4H	SHANDELMAN EUGENIA	SHANDELMAN STELLA	53 MELROSE ST		MELROSE	MA	02176	76065-534	53 MELROSE ST UNIT A4H
C11 0 73A5A	WISE, ANN M.		53 MELROSE ST #5A		MELROSE	MA	02176	62084-319	53 MELROSE ST UNIT A5A
C11 0 73A5B	HORGAN JOHN	DUNLOP LINDA	53 MELROSE ST.		MELROSE	MA	02176	80722-540	53 MELROSE ST UNIT A5B
C11 0 73A5C	MURPHY, MELISSA ANN, IND.		53 MELROSE ST UNIT 5-C		MELROSE	MA	02176	71813-264	53 MELROSE ST UNIT A5C
C11 0 73A5D	MONTE, BARBARA E		53 MELROSE ST #5D		MELROSE	MA	02176	32268-432	53 MELROSE ST UNIT A5D
C11 0 73A5E	BAKSHANI, RAJIV		53 MELROSE ST. #5E		MELROSE	MA	02176	71128-333	53 MELROSE ST UNIT A5E
C11 0 73A5F	TASKER, RICHARD		11 GRANDVIEW AVE.		MELROSE	MA	02176	63309-433	53 MELROSE ST UNIT A5F
C11 0 73A5G	BEARDSLEY, LINDA V TRUSTEE	SCHAALMAN REALTY TRUST	54 ALDEN AV		REVERE	MA	02151	30776-408	53 MELROSE ST UNIT A5G
C11 0 73A5H	PANAH, NAHAL		53 MELROSE ST UNIT 5H		MELROSE	MA	02176	51998-280	53 MELROSE ST UNIT A5H
C11 0 73A6A	KEVIN J. WALSH SUPP NEEDS TRST	ROBERT BANNISH/ZACHARY BOURQUE	2 FAIRWAY DRIVE		TOPSFIELD	MA	01983	73897-384	53 MELROSE ST UNIT A6A
C11 0 73A6B	HAWKES, HAROLD TRS.	53 MELROSE ST REALTY TR.	53 MELROSE ST UNIT 6		MELROSE	MA	02176	29220-360	53 MELROSE ST UNIT A6B
C11 0 73A6C	KIM PHUONG NGUYEN		53 MELROSE ST.		MELROSE	MA	02176	81293-127	53 MELROSE ST UNIT A6C
C11 0 73A6D	CHAU, MAY, TRUSTEE	MCRB REALTY TRUST	53 MELROSE STREET #6D		MELROSE	MA	02176	58793-597	53 MELROSE ST UNIT A6D
C11 0 73A6E	SORABELLA, JOHN M. LF EST	SORABELLA FAM IRR. TRUST	53 MELROSE ST UNIT 6E		MELROSE	MA	02176	64409-158	53 MELROSE ST UNIT A6E
C11 0 73A6F	ZHANG, LEI		53 MELROSE ST. #6F		MELROSE	MA	02176	61777-220	53 MELROSE ST UNIT A6F
C11 0 73A6G	FARRELL RYAN		53 MELROSE STREET UNIT 6G		MELROSE	MA	02176	79822-243	53 MELROSE ST UNIT A6G
C11 0 73A6H	DEMATTEO, KAREN A.		53 MELROSE ST.#6H		MELROSE	MA	02176	60344-533	53 MELROSE ST UNIT A6H
C11 0 73A7A	DAVEY, DANIEL T.	RENEE M. DAVEY, HWTE	19 LEDGEWOOD AV		MELROSE	MA	02176	56665-386	53 MELROSE ST UNIT A7A
C11 0 73A7B	CAMPBELL, BARBARA A.	RICHARD J. CAMPBELL, JTRS	51 WHITMAN ST		SOMERVILLE	MA	02144	66356-297	53 MELROSE ST UNIT A7B
C11 0 73A7C	BROOKS, ANN MARIE		51 MELROSE ST. #7C		MELROSE	MA	02176	63527-43	53 MELROSE ST UNIT A7C
C11 0 73A7D	CYNTHIA M RUPPEL REV TR OF 17	CYNTHIA M RUPPEL, TRUSTEE	53 MELROSE ST 7D		MELROSE	MA	02176	70289-80	53 MELROSE ST UNIT A7D
C11 0 73A7E	FINGER, BARBARA A.		53 MELROSE ST #7E		MELROSE	MA	02176	69728-359	53 MELROSE ST UNIT A7E
C11 0 73A7F	MOKARRAM KEYTASH		53 MELROSE ST.		MELROSE	MA	02176	80762-145	53 MELROSE ST UNIT A7F
C11 0 73A7G	GOYETTE, CYNTHIA		53 MELROSE ST#7G		MELROSE	MA	02176	66742-313	53 MELROSE ST UNIT A7G

City of Melrose Abutters List

LYNNFELLS-MELROSE ST 100FT.xls

abutters_id_field	abutters_owner1	abutters_owner2	abutters_address	abutters_address2	abutters_town	abutters_state	abutters_zip	abutters_bookpage	abutters_location
C11 0 73A7H	ABATE DANTE		53 MELROSE ST.		MELROSE	MA	02176	81739-242	53 MELROSE ST UNIT A7H
C11 0 73APH	WHENNEN, BILLIE JO, IND.		53 MELROSE ST PH		MELROSE	MA	02176	73008-451	53 MELROSE ST UNIT APH
C11 0 73B1A	DEAN,NANCY M		51 MELROSE ST #1A		MELROSE	MA	02176	28363-420	51 MELROSE ST UNIT B1A
C11 0 73B1B	CHRISTIANSEN, ROBERT W		51 MELROSE ST 1B		MELROSE	MA	02176	41515-278	51 MELROSE ST UNIT B1B
C11 0 73B1C	CATHERINE T DENNISON ET ALS.	LEE FAMILY IRREV TR	51 MELROSE ST		MELROSE	MA	02176	79689-72	51 MELROSE ST UNIT B1C
C11 0 73B1D	PUFFER, ROSE C.	DAVID A. PUFFER, JTRS	338 WINTHROP ST		MEDFORD	MA	02155	71874-15	51 MELROSE ST UNIT B1D
C11 0 73B1E	NG, MAN KIT	KATHY PUI CHOI, HWTE	51 MELROSE ST #1E		MELROSE	MA	02176	65567-312	51 MELROSE ST UNIT B1E
C11 0 73B1F	MINICHELLO MICHELLE		51 MELROSE ST		MELROSE	MA	02176	80701-409	51 MELROSE ST UNIT B1F
C11 0 73B1H	KEOHANE MARJORIE	MERCER JULIE	51 MELROSE ST.		MELROSE	MA	02176	80718-587	51 MELROSE ST UNIT B1H
C11 0 73B2A	SULLIVAN MICHAEL	SIM-SULLIVAN SANDRA	22 RAND ST		MALDEN	MA	02148	79528-155	51 MELROSE ST UNIT B2A
C11 0 73B2B	NORTHROP, DONALD W.	CHRISTINE S. NORTHROP, HWTE	51 MELROSE ST #2B		MELROSE	MA	02176	60851-579	51 MELROSE ST UNIT B2B
C11 0 73B2C	TIMONY MARIBETH	MARIBETH TIMONY REV TR	87 COTTAGE ST		MELROSE	MA	02176	78713-234	51 MELROSE ST UNIT B2C
C11 0 73B2D	GULYAEV, STANISLAV, IND.		51 MELROSE ST #2D		MELROSE	MA	02176	71360-112	51 MELROSE ST UNIT B2D
C11 0 73B2E	GIACALONE, DONNA M	ANTHONY GIACALONE JR TC	51 MELROSE ST UNIT 2E		MELROSE	MA	02176	46264-404	51 MELROSE ST UNIT B2E
C11 0 73B2F	MINICHELLO MICHELLE		51 MELROSE ST		MELROSE	MA	02176	76943-321	51 MELROSE ST UNIT B2F
C11 0 73B2G	LAVASSEUR WILLIAM		51 MELROSE ST		MELROSE	MA	02176	75738-1	51 MELROSE ST UNIT B2G
C11 0 73B2H	OOSTERMAN, JAMES E + LISA J	DUTCH ELM LIVING TR	51 MELROSE ST		MELROSE	MA	02176	79109-281	51 MELROSE ST UNIT B2H
C11 0 73B3A	BARNSTEAD, CAROL M.		51 MELROSE ST #3A		MELROSE	MA	02176	48237-192	51 MELROSE ST UNIT B3A
C11 0 73B3B	MACDONOUGH, HERBERT M.	MARYANN M. MACDONOUGH, HWTE	51 MELROSE ST. #3B		MELROSE	MA	02176	66296-271	51 MELROSE ST UNIT B3B
C11 0 73B3C	MELROSE NOMINEE TRUST	GINCHES JULIE	78 EMERSON EAST ST		MELROSE	MA	02176	76112-106	51 MELROSE ST UNIT B3C
C11 0 73B3D	CATERINO, THOMAS A.	MICHAEL E. HOGMAN, JTRS	51 MELROSE ST UNIT 3		MELROSE	MA	02176	65211-417	51 MELROSE ST UNIT B3D
C11 0 73B3E	BONO REV TRUST	BONO CHRISTOPHER	51 MELROSE ST		MELROSE	MA	02176	75326-575	51 MELROSE ST UNIT B3E
C11 0 73B3F	OOSTERMAN, JAMES E + LISA J.	DUTCH ELM LIV TR	54 ELLIS FARM LN		MELROSE	MA	02176	79088-268	51 MELROSE ST UNIT B3F
C11 0 73B3G	MURPHY, CHRISTINE S.		51 MELROSE ST. #3G		MELROSE	MA	02176	69537-404	51 MELROSE ST UNIT B3G
C11 0 73B3H	MCLENNAN, BERNICE C., TRUSTEE	THE BERNICE C MCLENNAN 2014 TR	51 MELROSE ST #3H		MELROSE	MA	02176	66904-262	51 MELROSE ST UNIT B3H
C11 0 73B4A	UTTARO, LIA S.		51 MELROSE ST. #4A		MELROSE	MA	02176	65731-27	51 MELROSE ST UNIT B4A
C11 0 73B4B	BRUCE, SAUNDRA J IND		51 MELROSE ST 4B		MELROSE	MA	02176	22359-395	51 MELROSE ST UNIT B4B
C11 0 73B4C	BAIRD, ANN M		51 MELROSE ST B4C		MELROSE	MMA	02176	44124-236	51 MELROSE ST UNIT B4C
C11 0 73B4D	KODEIH RANA		51 MELROSE ST		MELROSE	MA	02176	78368-210	51 MELROSE ST UNIT B4D
C11 0 73B4E	MCCUSKER, JOSHUA		51 MELROSE ST #4E		MELROSE	MA	02176	67541-134	51 MELROSE ST UNIT B4E
C11 0 73B4F	MACASKILL DARLENE	MUNSEY DAVID	51 MELROSE ST.		MELROSE	MA	02176	81070-216	51 MELROSE ST UNIT B4F
C11 0 73B4G	NAPOLITANO, ASTRID LF EST	PAULINE BRANZETTI, ET ALS TC	51 MELROSE ST UNIT 4		MELROSE	MA	02176	50653-387	51 MELROSE ST UNIT B4G
C11 0 73B4H	LINDSTROM,ELIOT G		51 MELROSE ST #4H		MELROSE	MA	02176		51 MELROSE ST UNIT B4H
C11 0 73B5A	HARTIGAN,ROBERT M JR		51 MELROSE STREET #5-A		MELROSE	MA	02176	30144-264	51 MELROSE ST UNIT B5A
C11 0 73B5B	BROCKWAY, CARLA		51 MELROSE ST #5B		MELROSE	MA	02176	63608-516	51 MELROSE ST UNIT B5B
C11 0 73B5C	CANAVAN, MARY A., TRUSTEE	MARY A. CANAVAN REV. TRUST	51 MELROSE ST #5-C		MELROSE	MA	02176	74122-89	51 MELROSE ST UNIT B5C
C11 0 73B5D	BLUESTEIN,SHEILA F		51 MELROSE ST, U# 5D		MELROSE	MA	02176		51 MELROSE ST UNIT B5D
C11 0 73B5E	BLUESTEIN,SHEILA F.		51 MELROSE ST, U#5E		MELROSE	MA	02176		51 MELROSE ST UNIT B5E
C11 0 73B5F	BULMAN, JOHN P. JR.	CAROL ADILETTO FRANCIS TC	51 MELROSE ST # 5F		MELROSE	MA	02176	51466-48	51 MELROSE ST UNIT B5F
C11 0 73B5G	CHEW YIN	CHAN-CHEW SHUE	51 MELROSE STREET		MELROSE	MA	02176	80344-68	51 MELROSE ST UNIT B5G
C11 0 73B5H	WANG, YICHAO	CHUMIAO ZENG, HWTE	51 MELROSE ST #5H		MELROSE	MA	02176	70450-483	51 MELROSE ST UNIT B5H
C11 0 73B6A	LAWHORNE, PETER G.		51 MELROSE ST. #6A		MELROSE	MA	02176	52610-150	51 MELROSE ST UNIT B6A
C11 0 73B6B	ALMOUSILLY, MOHAMMED, IND.		51 MELROSE ST #6B		MELROSE	MA	02176	71922-61	51 MELROSE ST UNIT B6B
C11 0 73B6C	MCINTYRE, BRIDGET	JOHN HURLEY, DEBORAH DRAGO JT	51 MELROSE ST #6C		MELROSE	MA	02176	46493-256	51 MELROSE ST UNIT B6C
C11 0 73B6D	AURELIA,JOSEPH C+CAMILLE F TRS	JOINT REVOCABLE LIVING TRUST	65 GARFIELD ROAD		MELROSE	MA	02176	56190-118	51 MELROSE ST UNIT B6D
C11 0 73B6E	PALMIERI, ROSALIE S.		51 MELROSE ST UNIT 6E		MELROSE	MA	02176	59681-518	51 MELROSE ST UNIT B6E
C11 0 73B6F	TEVNaN DARLENE		51 MELROSE ST.		MELROSE	MA	02176	81522-348	51 MELROSE ST UNIT B6F
C11 0 73B6G	DUFFY, BARBARA J		51 MELROSE ST. #6G		MELROSE	MA	02176	54172-400	51 MELROSE ST UNIT B6G
C11 0 73B6H	LUCAS, REGINA A LF. EST.	DAVID R. LUCAS, ETALS TC	51 MELROSE ST UNIT 6H		MELROSE	MA	02176	64177-415	51 MELROSE ST UNIT B6H
C11 0 73B7A	PUZZANGHERA, PAUL		263 HIGH STREET		WINCHESTER	MA	01890	68799-564	51 MELROSE ST UNIT B7A
C11 0 73B7B	WESTON, CORAL C.		51 MELROSE ST UNIT 7B		MELROSE	MA	02176	64083-520	51 MELROSE ST UNIT B7B
C11 0 73B7C	SUSAN L. REDDING LIVING TRUST	SUSAN L. REDDING, TRUSTEE	120 CAPTAIN NICKERSON RD		S. YARMOUTH	MA	02664	73124-386	51 MELROSE ST UNIT B7C
C11 0 73B7D	BEATON, EDNA C.		49 SEWALL WOODS RD		MELROSE	MA	02176	64496-247	51 MELROSE ST UNIT B7D
C11 0 73B7E	OC FAM REALTY TRUST	OCALLAHAN MARGARET	51 MELROSE ST		MELROSE	MA	02176	76654-41	51 MELROSE ST UNIT B7E

City of Melrose Abutters List

LYNNFELLS-MELROSE ST 100FT.xls

abutters_id_field	abutters_owner1	abutters_owner2	abutters_address	abutters_address2	abutters_town	abutters_state	abutters_zip	abutters_bookpage	abutters_location
C11 0 73B7F	CAPPELLUZZO,SILVIO A	V A CAPPELLUZZO	51 MELROSE ST UNIT 7		MELROSE	MA	02176		51 MELROSE ST UNIT B7F
C11 0 73B7G	FIORENZA, JACQUELYN M		51 MELROSE ST U7G		MELROSE	MA	02176	41746-306	51 MELROSE ST UNIT B7G
C11 0 73B7H	BONDE, JR LESLIE	BONDE EVA	51 MELROSE ST		MELROSE	MA	02176	79699-328	51 MELROSE ST UNIT B7H
C11 0 73C1A	WAKSMONSKI MARK		49 MELROSE ST.		MELROSE	MA	02176	80905-217	49 MELROSE ST UNIT C1A
C11 0 73C1B	FLYNN-MORRIS, JANET		49 MELROSE ST UNIT 1-B		MELROSE	MA	02176	66661-275	49 MELROSE ST UNIT C1B
C11 0 73C1C	ZHANG, LIGE, IND.		49 MELROSE ST. #1-C		MELROSE	MA	02176	74858-281	49 MELROSE ST UNIT C1C
C11 0 73C1D	MELANSON, THOMAS J.	COLLETTE P. MELANSON	49 MELROSE ST UNIT 1D		MELROSE	MA	02176	65771-367	49 MELROSE ST UNIT C1D
C11 0 73C1E	PENTA, ANTHONY		49 MELROSE ST #1-E		MELROSE	MA	02176	48180-200	49 MELROSE ST UNIT C1E
C11 0 73C1F	DEANE, MYRNA A.		49 MELROSE ST. #1F		MELROSE	MA	02176	68316-418	49 MELROSE ST UNIT C1F
C11 0 73C1H	DELOATCH-PEARSON, ALEXANDRIA	TRSTEE OF PEARSON REALTY TRUST	49 MELROSE ST UNIT 1H		MELROSE	MA	02176	54192-194	49 MELROSE ST UNIT C1H
C11 0 73C2A	QUIGLEY, DIANE E.		49 MELROSE ST #2A		MELROSE	MA	02176	49448-25	49 MELROSE ST UNIT C2A
C11 0 73C2B	FISHER, RUTH, TRUSTEE	RUTH FISHER REVOCABLE TRUST	49 MELROSE ST UNIT 2		MELROSE	MA	02176	65504-113	49 MELROSE ST UNIT C2B
C11 0 73C2C	XUEYING KANG		49 MELROSE ST.		MELROSE	MA	02176	81413-140	49 MELROSE ST UNIT C2C
C11 0 73C2D	DOYLE PETER	DOYLE JEAN	43 HIGHLAND AVE.		CAMBRIDGE	MA	02139	80641-159	49 MELROSE ST UNIT C2D
C11 0 73C2E	PENALOSA, WILSON		49 MELROSE ST		MELROSE	MA	02176	36540-441	49 MELROSE ST UNIT C2E
C11 0 73C2F	MARY J. HUGHES REV TRUST	MARY J. HUGHES, TRUSTEE	49 MELROSE ST #2F		MELROSE	MA	02176	72260-128	49 MELROSE ST UNIT C2F
C11 0 73C2G	GORI FAM IRREV TR	GORI JASON	49 MELROSE ST		MELROSE	MA	02176	75880-569	49 MELROSE ST UNIT C2G
C11 0 73C2H	DOCKERY, MARY, IND.		P.O. BOX 303		MEDFIELD	MA	02052	73920-532	49 MELROSE ST UNIT C2H
C11 0 73C3A	CUNNIFFE CHRISTOPHER		49 MELROSE ST		MELROSE	MA	02176	77439-39	49 MELROSE ST UNIT C3A
C11 0 73C3B	WORTMAN FAMILY TRUST	WORTMAN BARBARA	49 MELROSE ST		MELROSE	MA	02176	76159-329	49 MELROSE ST UNIT C3B
C11 0 73C3C	DEMATTIA, AURORA C. LIFE EST.	DEBORAH L. HOLLETT	49 MELROSE ST UNIT 3C		MELROSE	MA	02176	67878-236	49 MELROSE ST UNIT C3C
C11 0 73C3D	LINDA M MAIETTA REV TR	MAIETTA LINDA	49 MELROSE ST		MELROSE	MA	02176	75357-134	49 MELROSE ST UNIT C3D
C11 0 73C3E	KIROV, KIRIL	TIHILINA KANDILAROVA-KIROVA HW	49 MELROSE ST #3E		MELROSE	MA	02176	68349-325	49 MELROSE ST UNIT C3E
C11 0 73C3F	DWYER, JAMES E.	DENISE J. DWYER, HWTE	49 MELROSE ST., #3F		MELROSE	MA	02176	69762-523	49 MELROSE ST UNIT C3F
C11 0 73C3G	FALLON,MARY E		49 MELROSE ST UNIT 3		MELROSE	MA	02176	21306-155	49 MELROSE ST UNIT C3G
C11 0 73C3H	OSHEA REALTY TRUST	MAURICE F +ANNE M OSHEA, TRSTS	49 MELROSE ST #3H		MELROSE	MA	02176	69114-218	49 MELROSE ST UNIT C3H
C11 0 73C4A	DOYLE NANCY	DOYLE JAMES	22 WINNISIMETTE AVE.		WAKEFIELD	MA	01880	80209-127	49 MELROSE ST UNIT C4A
C11 0 73C4B	GRANT, MADELINE D.		49 MELROSE ST. #4B		MELROSE	MA	02176	57504-458	49 MELROSE ST UNIT C4B
C11 0 73C4C	FLEMING,CAROL A		340 SWAINS POND AVE		MELROSE	MA	02176		49 MELROSE ST UNIT C4C
C11 0 73C4D	MICHAEL GIANELLI		55 PINE STREET 5TH FL.		PROVIDENCE	RI	02903	80564-64	49 MELROSE ST UNIT C4D
C11 0 73C4E	DECARTERET, JILLENA E.		49 MELROSE ST UNIT 4		MELROSE	MA	02176	66012-406	49 MELROSE ST UNIT C4E
C11 0 73C4F	GERSON, PAULINE E.	LAWRENCE D. LOWENTHAL, TE	49 MELROSE ST UNIT 4F		MELROSE	MA	02176	73840-66	49 MELROSE ST UNIT C4F
C11 0 73C4G	GORDON, ROBERT		49 MELROSE #4G		MELROSE	MA	02176	42645-70	49 MELROSE ST UNIT C4G
C11 0 73C4H	FOWLER, JEFFREY	LAUREN VITALE, HWTE	49 MELROSE ST UNIT 4H		MELROSE	MA	02176	73473-569	49 MELROSE ST UNIT C4H
C11 0 73C5A	MACDONALD, ELEANOR A. TRUSTEE	THE ELEANOR MACDONALD TRUST	49 MELROSE ST 5A		MELROSE	MA	02176	60705-41	49 MELROSE ST UNIT C5A
C11 0 73C5B	TERENTYEV, STANISLAV		49 MELROSE ST. #5B		MELROSE	MA	02176	60706-303	49 MELROSE ST UNIT C5B
C11 0 73C5C	LEIGHTON,JOAN		49 MELROSE ST		MELROSE	MA	02176		49 MELROSE ST UNIT C5C
C11 0 73C5D	CHRISTOPHER C. OKEEFE TEST TRS	MULLIN, CAROL+ DANIEL, TRTEES	10 FLAGG CIRCLE		WALTHAM	MA	02453	46531-392	49 MELROSE ST UNIT C5D
C11 0 73C5E	CONROY JOAN		49 MELROSE STREET		MELROSE	MA	02176	14627-10	49 MELROSE ST UNIT C5E
C11 0 73C5F	KHIBNIK, ALEXANDER I.	VICTORIA L. KHIBNIK, HWTE	49 MELROSE ST U5F		MELROSE	MA	02176	73754-219	49 MELROSE ST UNIT C5F
C11 0 73C5G	LI CHUN	HERSEY MATTHEW	49 MELROSE STREET		MELROSE	MA	02176	80246-41	49 MELROSE ST UNIT C5G
C11 0 73C5H	BRANDANO, ANTHONY A.	MICHAEL J BRANDANO TRSTEE	16 JAMES MILLIAN RD		NO READING	MA	01864	73417-53	49 MELROSE ST UNIT C5H
C11 0 73C6A	DAZA CLAUDIA	DAZA GINA	49 MELROSE ST		MELROSE	MA	02176	78748-585	49 MELROSE ST UNIT C6A
C11 0 73C6B	KEUNG JIMMY		49 MELROSE ST		MELROSE	MA	02176	77273-103	49 MELROSE ST UNIT C6B
C11 0 73C6C	POWERS, VIRGINIA M. LE	FROILAN SHARLEEN	49 MELROSE ST		MELROSE	MA	02176	79330-227	49 MELROSE ST UNIT C6C
C11 0 73C6D	SUSAN LANE BISHOP IRREV TRUST	E. JOHN BISHOP, TRUSTEE	1400 LOWELL ROAD		CONCORD	MA	01742	70892-207	49 MELROSE ST UNIT C6D
C11 0 73C6E	FATOVIC LAUREN		49 MELROSE ST		MELROSE	MA	02176	77849-234	49 MELROSE ST UNIT C6E
C11 0 73C6F	DALLAHI NADIA		49 MELROSE ST		MELROSE	MA	02176	79542-328	49 MELROSE ST UNIT C6F
C11 0 73C6G	UMBRO, LYNDA A		49 MELROSE ST U6G		MELROSE	MA	02176	36306-571	49 MELROSE ST UNIT C6G
C11 0 73C6H	KEUNG, JIMMY	LI YING MEI, JT	49 MELROSE ST., UNIT 6H		MELROSE	MA	02176	70082-33	49 MELROSE ST UNIT C6H
C11 0 73C7A	HELEN MARIE DRAGO LF EST	DRAGO PAUL	49 MELROSE ST		MELROSE	MA	02176	76829-132	49 MELROSE ST UNIT C7A
C11 0 73C7B	BORDA, LUIS E.	TRANSITO B. BORDA, HWTE	49 MELROSE ST #7B		MELROSE	MA	02176	66296-339	49 MELROSE ST UNIT C7B
C11 0 73C7C	LEONARD JOHN		49 MELROSE ST.		MELROSE	MA	02176	81429-540	49 MELROSE ST UNIT C7C
C11 0 73C7D	KAUFMAN, HOWARD R.		49 MELROSE ST #7D		MELROSE	MA	02176	54328-322	49 MELROSE ST UNIT C7D

abutters_id_field	abutters_owner1	abutters_owner2	abutters_address	abutters_address2	abutters_town	abutters_state	abutters_zip	abutters_bookpage	abutters_location
C11 0 73C7E	MCKECHNIE ROBERT	ROBERT M. MCKECHNIE, JR. LIVING TRU	718 PEARL PINE CT		MYRTLE BEACH	SC	29577	79726-15	49 MELROSE ST UNIT C7E
C11 0 73C7F	MASON FAMILY IRREV TRUST	KEVIN M. MASON, TRUSTEE	49 MELROSE ST #7F		MELROSE	MA	02176	70928-265	49 MELROSE ST UNIT C7F
C11 0 73C7G	DUCOTT FAMILY IRR. TRUST	TARA J COSCO+TRACY A MORONEY	49 MELROSE ST #7G		MELROSE	MA	02176	55309-260	49 MELROSE ST UNIT C7G
C11 0 73C7H	BRITH, SALLY M.		49 MELROSE ST. #7H		MELROSE	MA	02176	66944-334	49 MELROSE ST UNIT C7H
D10 0 27	JAMALEDDINE, ABDALLAH	MAYA JAMALEDDINE, HWTE	10 MELROSE STREET		MELROSE	MA	02176	59166-327	10 MELROSE ST
D10 0 28	DIEP, LYNN VINH 1/3	D. ANH NGUYEN 1/3,KIN DIEP 1/3	12 HAZELWOOD STREET #2		MALDEN	MA	02148	65933-417	844 MAIN ST
D10 0 29	WARD,THOMAS TRS	470 LYNN FELLS PKWY RLTY TR	3 PLUFF AV		N READING	MA	01864	28089-549	470 LYNN FELLS PKWY
D10 0 30	GTY MA/NH LEASING, INC		292 MADISON AVE		NEW YORK	NY	10017	29958-356	860 MAIN ST
D10 0 6	STRECKERT, MARGRET 1/2	JERROLD H STRECKERT IRR TR 1/2	59 CRYSTAL ST		MELROSE	MA	02176	65007-542	59 CRYSTAL ST
D11 0 15-16	870 MAIN ST REALTY LLC		870 MAIN ST		MELROSE	MA	02176	1548-175	870 MAIN ST
D11 0 17	CHARTER MELROSE LLC		309 GREENWICH AVE		GREENWICH	CT	06830	1425-16	880 MAIN ST
D11 0 17A	CHARTER MELROSE, LLC	C/O FACILITIES DEPT	288 UNION ST		ROCKLAND	MA	02370	1425-16	27 MELROSE ST
D10 0 7-1	BRODESKY JACOB	RICCIO RACHEL	53 CRYSTAL ST		MELROSE	MA	02176	164-76	53 CRYSTAL ST
D10 0 7-2	WONG CHLOE		55 CRYSTAL ST		MELROSE	MA	02176	160-37	55 CRYSTAL ST
City of Melrose Board of Assessors Certified Abutters List		7-21-2023							
									



SECTION 5

Cut/Fill Calculations



Civil Engineering • Transportation Engineering • Structural Engineering • Land Surveying • Green Infrastructure • Planning • GIS

2 Center Plaza • Suite 430 • Boston, MA 02108 • 617-338-0063 • Fax 617-338-6472 • E-mail info@nitscheng.com

Client:	DCR	
Project:	Lynn Fells Parkway	
Location:	Melrose, MA	
Project Number:	14589.9	Date: 06/19/23
Computed by:	KMC	
Checked by:	BG	Department: Transportation

CALCULATION SHEET

EARTHWORK QUANTITY SHEET

Lynn Fells

Station	Length (ft)	Cut Area (sf)	Avg Cut Area (sf)	Cut Vol (CY)	Fill Area (sf)	Avg Fill Area (sf)	Fill Volume (CY)
---------	-------------	---------------	-------------------	--------------	----------------	--------------------	------------------

Lynn Fells Parkway

3+51		15.23			0.00		
4+00	49	23.17	19.20	34.84	0.23	0.11	0.21
4+50	50	13.75	18.46	34.18	3.95	2.09	3.86
5+00	50	15.55	14.65	27.13	0.00	1.97	3.65
5+50	50	24.56	20.05	37.14	0.00	0.00	0.00
5+75	25	16.35	20.46	18.94	0.00	0.00	0.00

Melrose Street

20+67		10.52			0.00		
21+00	33	11.61	11.07	13.52	0.00	0.00	0.00
21+50	50	6.39	9.00	16.67	0.00	0.00	0.00
22+20	70	22.08	14.23	36.90	0.89	0.44	1.15
22+50	30	26.12	24.10	26.78	0.00	0.44	0.49
23+00	50	12.27	19.19	35.54	0.00	0.00	0.00
23+50	50	19.97	16.12	29.85	0.00	0.00	0.00

TOTAL: 311.50 CY

TOTAL: 9.36

SECTION 6

Site Photos



Intersection of Melrose Street and Lynn Fells Parkway



Looking east along Lynn Fells Parkway towards Main Street



Looking east along Lynn Fells Parkway from the west of intersection of Lynn Fells Parkway and Melrose Street



FIGURES

Figure 1: USGS Locus Map

Figure 2: Aerial Locus Map

Figure 3: Natural Heritage and Endangered Species Program Map

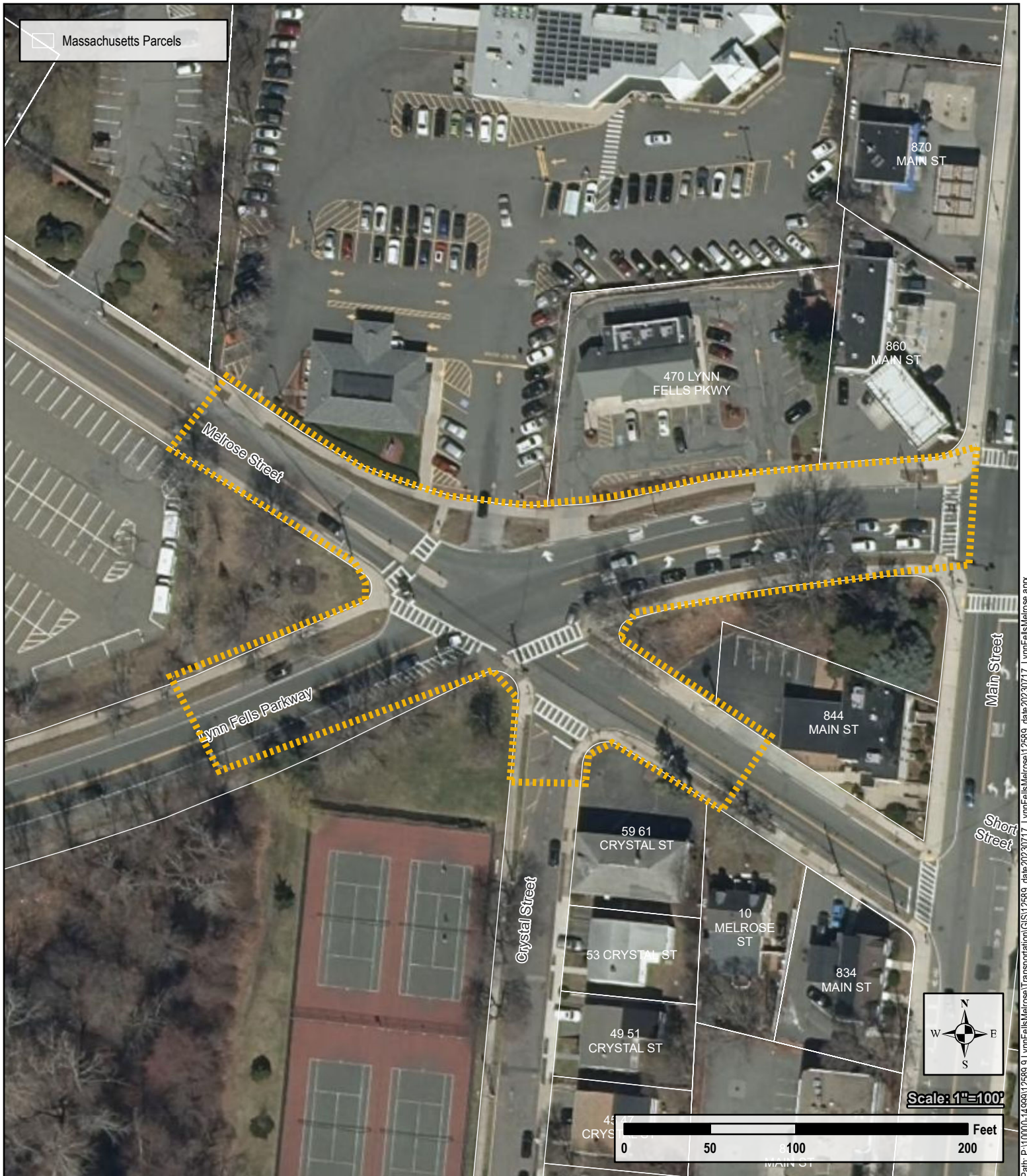
Figure 4: FEMA Floodplain Map



Path: P:\11000-49889\12589.9\LynnFellsMelrose\Transportation\GIS\12589_date20230717_LynnFellsMelrose.aprx

USGS Locus
Lynn Fells Parkway and Melrose Street Intersection
Melrose, MA 02176

7/17/2023

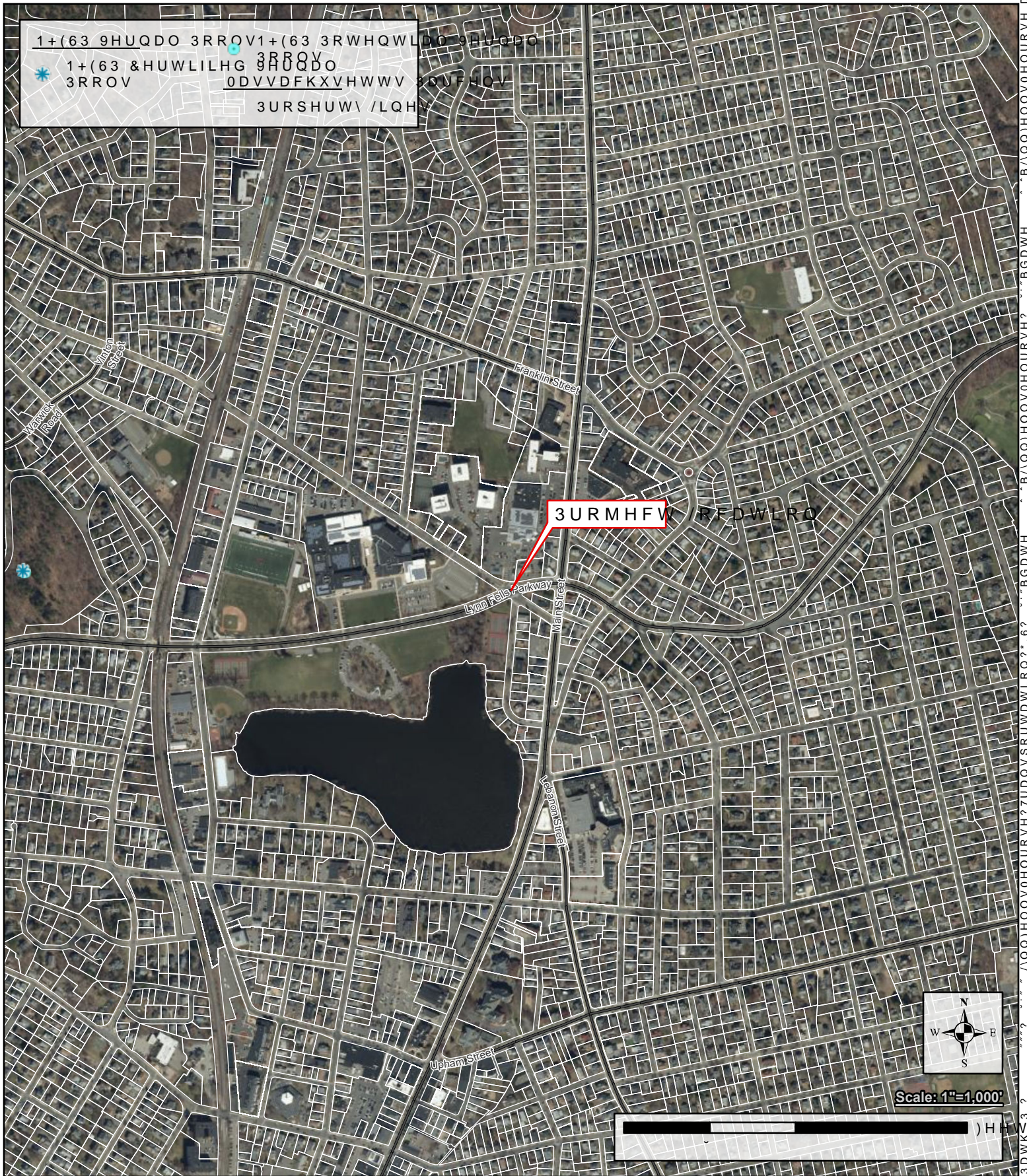


Aerial Locus

Lynn Fells Parkway and Melrose Street Intersection

Melrose, MA 02176

7/17/2023



Natural Heritage and Endangered Species Program
 Lynn Fells Parkway and Melrose Street Intersection
 Melrose, MA 02176

7/17/2023

National Flood Hazard Layer FIRMette

71°04'1"W 42°28'3"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS



OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS

- NO SCREEN *Zone X*
- Effective LOMR *Zone D*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

Cross Sections with 1% Annual Chance Water Surface Elevation

- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

OTHER FEATURES

- Digital Data Available
- No Digital Data Available
- Unmapped

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

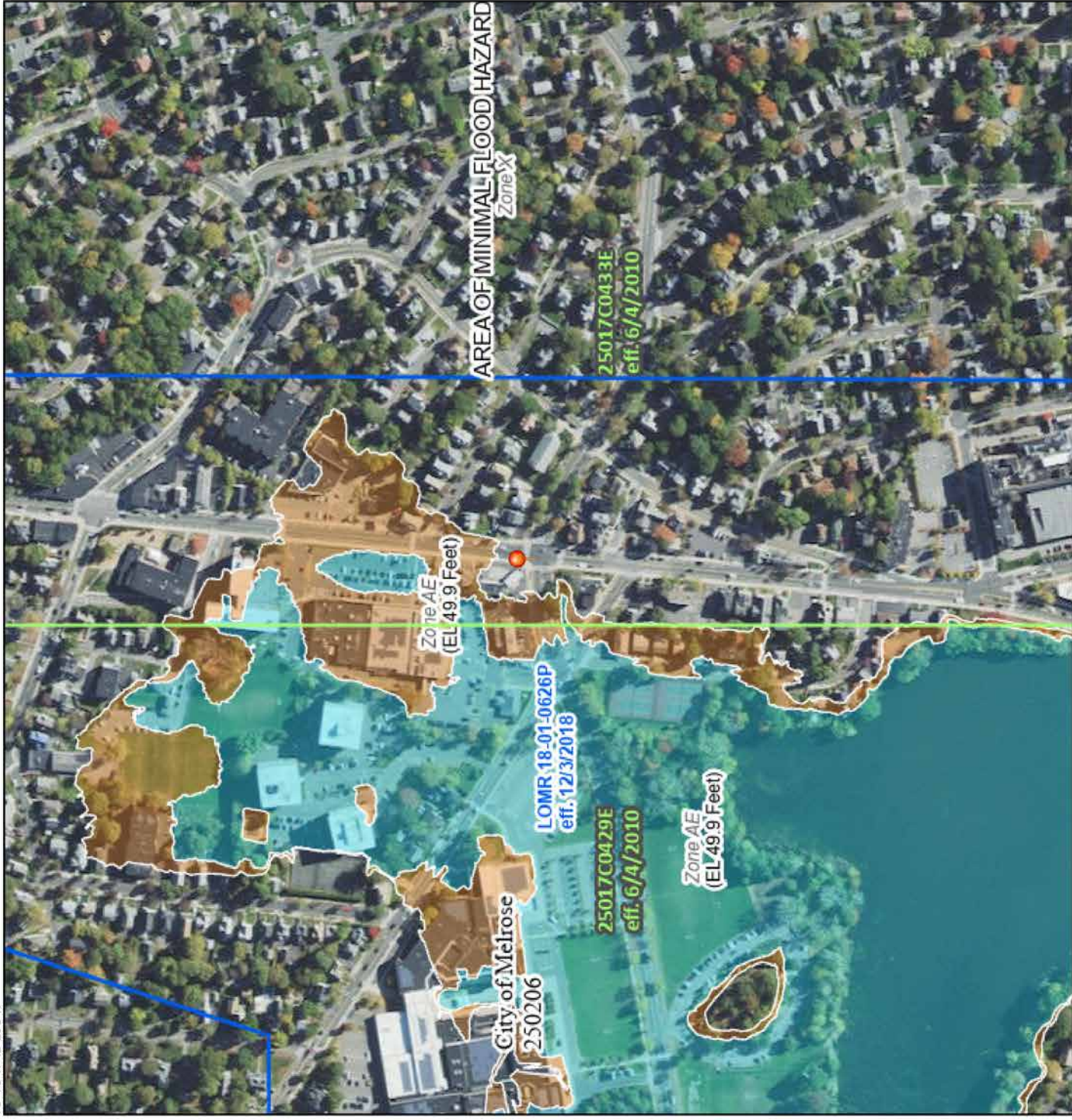


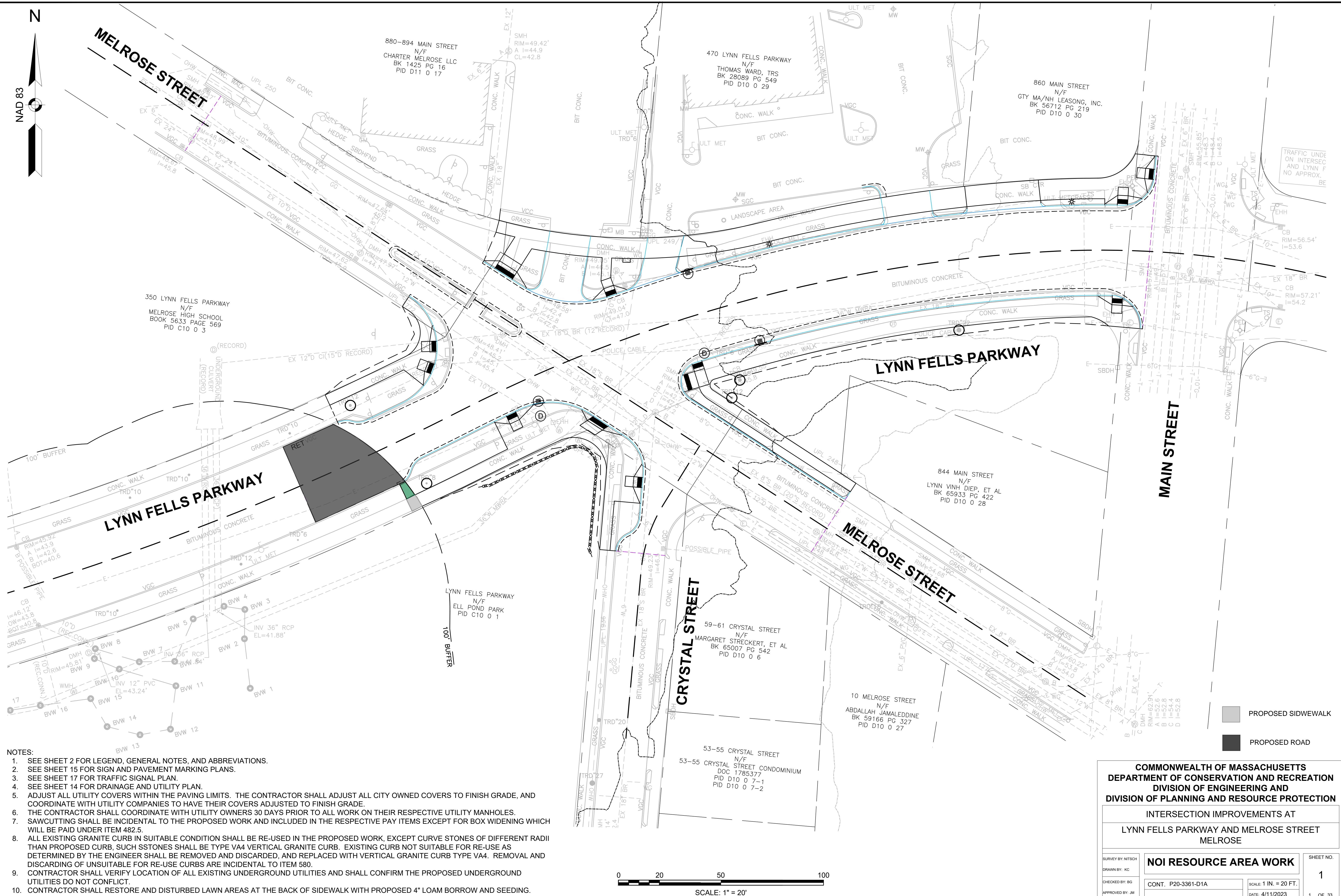
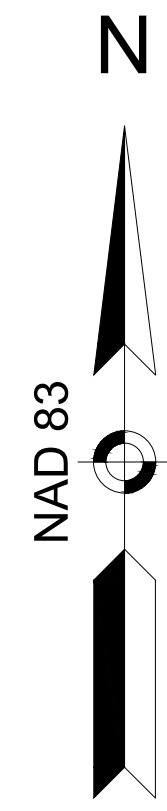
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

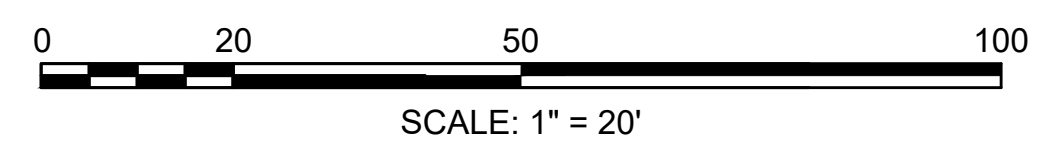
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/21/2023 at 7:40 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





- NOTES:
- SEE SHEET 2 FOR LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
 - SEE SHEET 15 FOR SIGN AND PAVEMENT MARKING PLANS.
 - SEE SHEET 17 FOR TRAFFIC SIGNAL PLAN.
 - SEE SHEET 14 FOR DRAINAGE AND UTILITY PLAN.
 - ADJUST ALL UTILITY COVERS WITHIN THE PAVING LIMITS. THE CONTRACTOR SHALL ADJUST ALL CITY OWNED COVERS TO FINISH GRADE, AND COORDINATE WITH UTILITY COMPANIES TO HAVE THEIR COVERS ADJUSTED TO FINISH GRADE.
 - THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS 30 DAYS PRIOR TO ALL WORK ON THEIR RESPECTIVE UTILITY MANHOLES. SAWCUTTING SHALL BE INCIDENTAL TO THE PROPOSED WORK AND INCLUDED IN THE RESPECTIVE PAY ITEMS EXCEPT FOR BOX WIDENING WHICH WILL BE PAID UNDER ITEM 482.5.
 - ALL EXISTING GRANITE CURB IN SUITABLE CONDITION SHALL BE RE-USED IN THE PROPOSED WORK, EXCEPT CURVE STONES OF DIFFERENT RADI THAN PROPOSED CURB, SUCH SSTONE SHALL BE TYPE VA4 VERTICAL GRANITE CURB. EXISTING CURB NOT SUITABLE FOR RE-USE AS DETERMINED BY THE ENGINEER SHALL BE REMOVED AND DISCARDED, AND REPLACED WITH VERTICAL GRANITE CURB TYPE VA4. REMOVAL AND DISCARDING OF UNSUITABLE FOR RE-USE CURBS ARE INCIDENTAL TO ITEM 580.
 - CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONFIRM THE PROPOSED UNDERGROUND UTILITIES DO NOT CONFLICT.
 - CONTRACTOR SHALL RESTORE AND DISTURBED LAWN AREAS AT THE BACK OF SIDEWALK WITH PROPOSED 4" LOAM BORROW AND SEEDING.



- PROPOSED SIDEWALK
- PROPOSED ROAD

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF ENGINEERING AND
DIVISION OF PLANNING AND RESOURCE PROTECTION

INTERSECTION IMPROVEMENTS AT
 LYNN FELS PARKWAY AND MELROSE STREET
 MELROSE

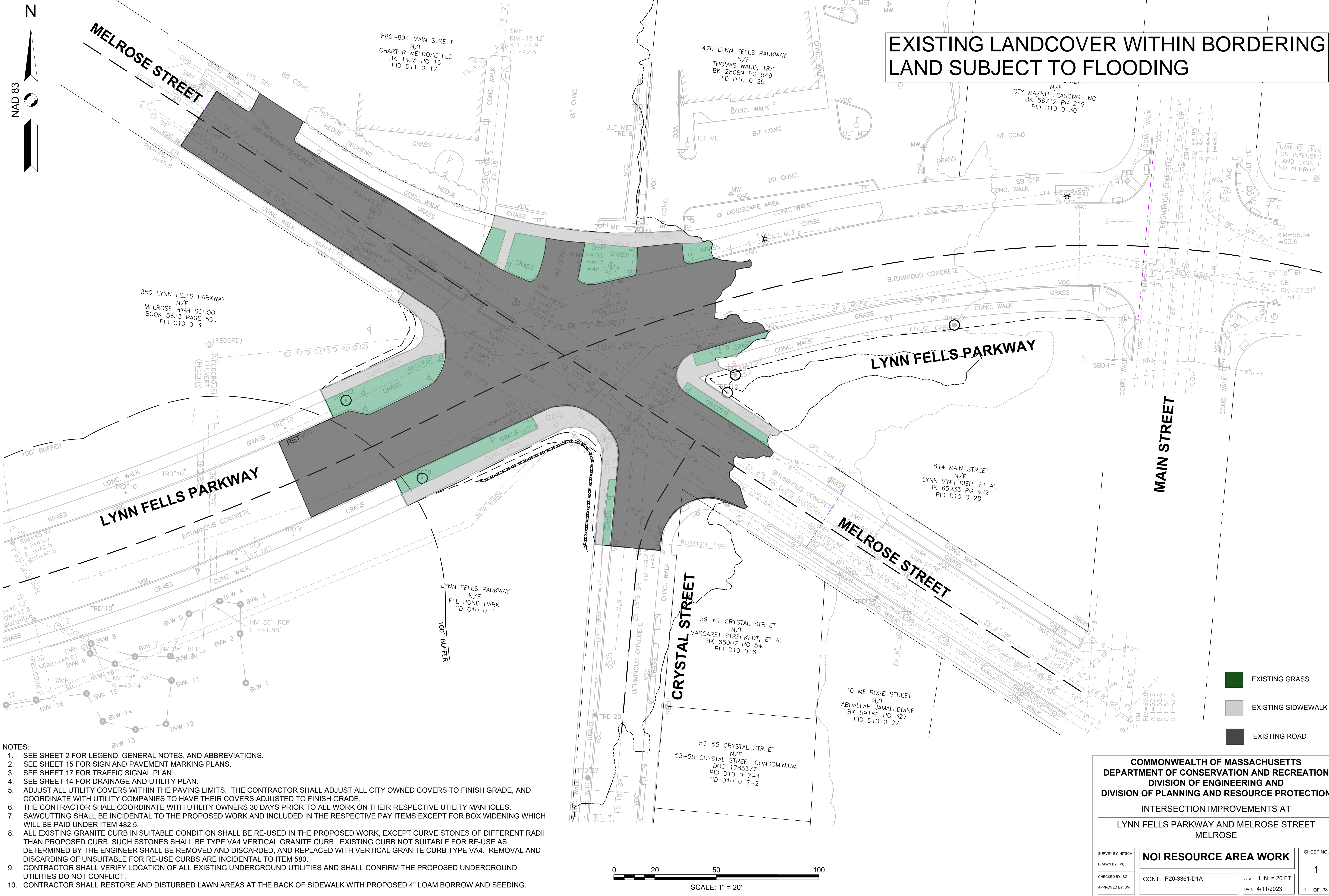
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SURVEY BY: NITSCH
 DRAWN BY: KC
 CHECKED BY: BG
 APPROVED BY: JM

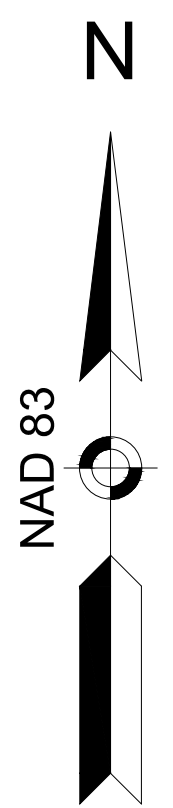
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 DATE: 4/11/2023

SCALE: 1 IN. = 20 FT.
 1 OF 33

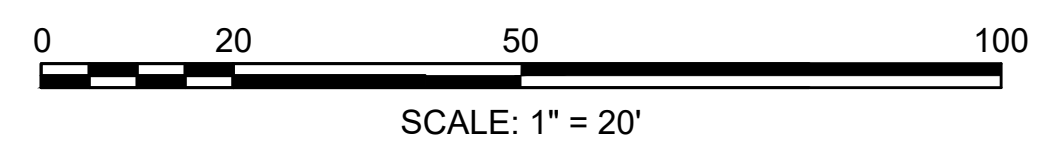
SHEET NO.
1



EXISTING LANDCOVER WITHIN BORDERING LAND SUBJECT TO FLOODING



- NOTES:**
- SEE SHEET 2 FOR LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
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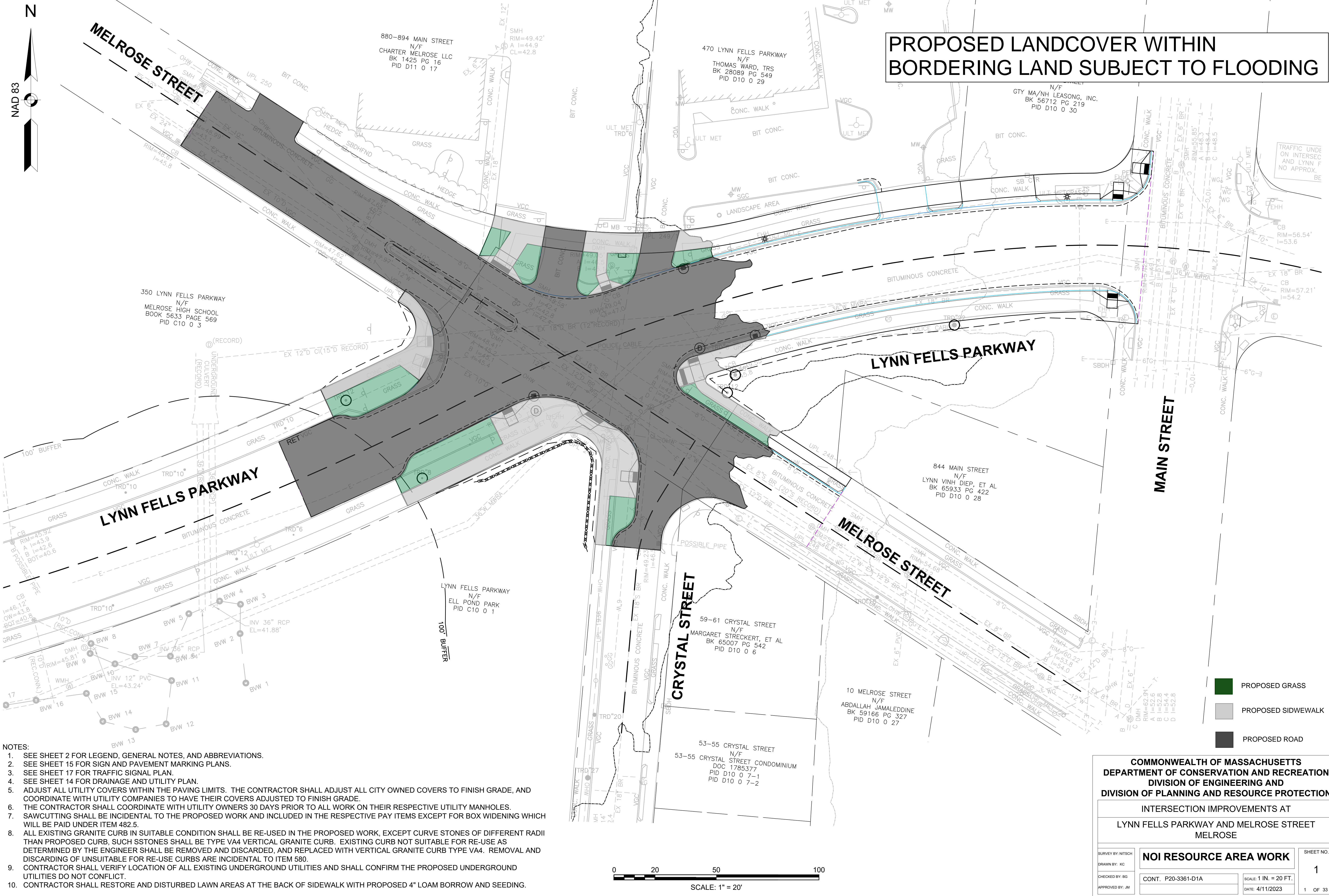
- EXISTING GRASS
- EXISTING SIDEWALK
- EXISTING ROAD

**COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF ENGINEERING AND
DIVISION OF PLANNING AND RESOURCE PROTECTION**

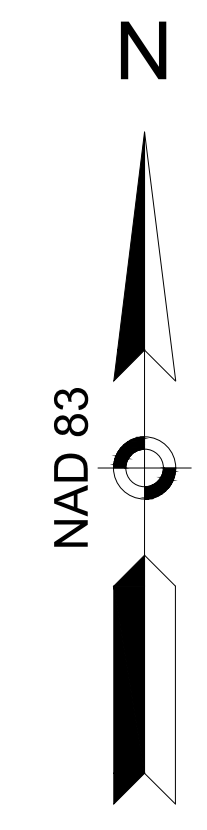
INTERSECTION IMPROVEMENTS AT
LYNN FELS PARKWAY AND MELROSE STREET
MELROSE

NOI RESOURCE AREA WORK	SHEET NO.
CONT. P20-3361-D1A	1
APPROVED BY: JM	1 OF 33

SURVEY BY: NITSCH
DRAWN BY: KC
CHECKED BY: BG
DATE: 4/11/2023
SCALE: 1 IN. = 20 FT.

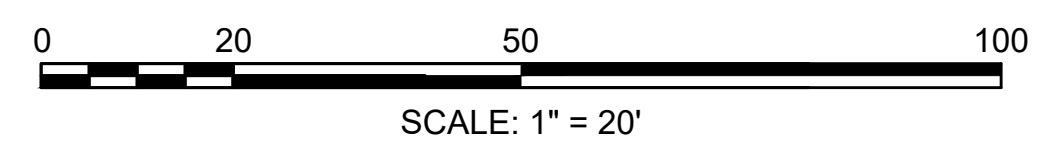


PROPOSED LANDCOVER WITHIN BORDERING LAND SUBJECT TO FLOODING



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- PROPOSED GRASS
- PROPOSED SIDEWALK
- PROPOSED ROAD



**COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF ENGINEERING AND
DIVISION OF PLANNING AND RESOURCE PROTECTION**

INTERSECTION IMPROVEMENTS AT
LYNN FELLS PARKWAY AND MELROSE STREET
MELROSE

NOI RESOURCE AREA WORK

SURVEY BY: NITSCH
DRAWN BY: KC
CHECKED BY: BG
APPROVED BY: JM

CONT: P20-3361-D1A

SCALE: 1 IN. = 20 FT.
DATE: 4/11/2023

SHEET NO.
1
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