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# Notice of Intent Application

Massachusetts Wetlands Protection Act (M.G.L. c.131 s.40)  
New Bedford Wetlands Ordinance

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## New Bedford Regional Airport Perimeter/Wildlife Fencing Improvements



*Submitted to:*

**New Bedford Conservation Commission**  
133 William Street, Room 304  
New Bedford, MA 02740

**MassDEP Southeast Regional Office**

20 Riverside Drive  
Lakeville, MA 02347

*Prepared for:*

**New Bedford Regional Airport Commission**  
1569 Airport Road  
New Bedford, MA 02746

*Submitted by:*

**Epsilon Associates, Inc.**  
3 Mill & Main Place, Suite 250  
Maynard, MA 01754

**October 24, 2019**



5584/New Bedford Airport Fence/NOI

**PRINCIPALS**

October 24, 2019

Theodore A Barten, PE  
Margaret B Briggs  
Dale T Raczynski, PE  
Cindy Schlessinger  
Lester B Smith, Jr  
Robert D O'Neal, CCM, INCE  
Michael D Howard, PWS  
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AJ Jablonowski, PE  
Stephen H Slocumb, PE  
David E Hewett, LEED AP  
Dwight R Dunk, LPD  
David C Klinch, PWS, PMP  
Maria B Hartnett

New Bedford Conservation Commission  
133 William Street, Room 304  
New Bedford, MA 02740

**Subject: Notice of Intent – Proposed Perimeter/Wildlife Fencing Improvements;  
New Bedford Regional Airport, New Bedford, MA.**

Dear Commissioners:

Enclosed please find two copies of the above referenced Notice of Intent (“NOI”) filed in accordance with the Massachusetts Wetlands Protection Act (M.G.L. c. 131 § 40) and implementing regulations (310 CMR 10.00) and the City of New Bedford Wetlands Ordinance. As per the Commission’s filing requirements please also find two full sized plan sets. The New Bedford Regional Airport is exempt from local and state filing fees because it is a municipal agency. Abutters to the property have been notified in accordance with state and local regulations.

**ASSOCIATES**

As explained in further detail in the enclosed NOI, the New Bedford Regional Airport Commission (the “Applicant”) is proposing to conduct perimeter and wildlife fencing improvements in four discrete locations on the Airport property. Sections of the perimeter fence have exceeded their useful life and are inadequate at preventing deer and other mammals access to the runways and taxiways. Additionally, some sections of the fence are inaccessible to Airport staff and cannot be effectively managed, thus contributing to this safety hazard.

Portions of the proposed fence improvements will occur within Bordering Vegetated Wetland (“BVW”), Bordering Land Subject to Flooding (“BLSF”), the Commission’s suggested 25-foot setback, and the 100-foot buffer zone to BVW. The proposed Project will result in minor alterations to these resource areas. The work described herein has been designed to conform to the Wetlands Protection Act and Ordinance performance standards that are applicable to these resource areas.

3 Mill & Main Place, Suite 250  
Maynard, MA 01754  
www.epsilonassociates.com

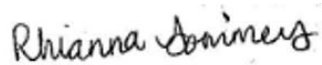
978 897 7100

FAX 978 897 0099

The enclosed NOI is being submitted for the Commission's review at the **November 5, 2019** public hearing. If you have any questions about this application, please contact me at 978.461.6225 or via email at [rsommers@epsilonassociates.com](mailto:rsommers@epsilonassociates.com).

Thank you.

Sincerely,  
EPSILON ASSOCIATES, INC.



Rhianna Sommers  
Project Scientist



Michael D. Howard, PWS, CWS  
Principal

CC: DEP Southeast Regional Office  
NHESP, David Paulson, Endangered Species Review Biologist  
Scot Servis, New Bedford Regional Airport Manager  
Steve Riesland, Airport Solutions Group, Inc.  
File

## **Notice of Intent Application**

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### **Massachusetts Wetlands Protection Act New Bedford Wetlands Ordinance**

### **New Bedford Regional Airport Perimeter/Wildlife Fencing Improvements**

*Prepared for:*

**New Bedford Regional Airport Commission**

1569 Airport Road  
New Bedford, MA 02746

*Submitted to:*

**New Bedford Conservation Commission**

133 William Street, Room 304  
New Bedford, MA 02740

*Prepared by:*

**Epsilon Associates, Inc.**

3 Mill & Main Place, Suite 250  
Maynard, Massachusetts 01754

*In Association With:*

Airport Solutions Group, Inc.

**October 24, 2019**



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Figure 2 – Aerial Locus Map

Figure 3 – MassDEP Wetlands Map

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**WPA Form 3 – Notice of Intent**

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**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

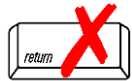
Document Transaction Number

New Bedford

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):

1569 Airport Road

a. Street Address

New Bedford

b. City/Town

02746

c. Zip Code

Latitude and Longitude:

-70.958176

d. Latitude

41.673886

e. Longitude

125-22, 123C-225, 123-3, 122-3

f. Assessors Map/Plat Number

g. Parcel /Lot Number

2. Applicant:

Scot

a. First Name

Servis

b. Last Name

New Bedford Regional Airport, Airport Manager

c. Organization

1569 Airport Road

d. Street Address

New Bedford

e. City/Town

MA

f. State

02746

g. Zip Code

(508) 991-6160

h. Phone Number

i. Fax Number

Scot.Servis@newbedford-ma.gov

j. Email Address

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

a. First Name

b. Last Name

City of New Bedford

c. Organization

133 William Street

d. Street Address

New Bedford

e. City/Town

MA

f. State

02740

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Rhianna

a. First Name

Sommers

b. Last Name

Epsilon Associates, Inc.

c. Company

3 Mill & Main Place, Suite 250

d. Street Address

Maynard

e. City/Town

MA

f. State

01754

g. Zip Code

(978) 461-6225

h. Phone Number

(978) 897-0099

i. Fax Number

rsommers@epsilonassociates.com

j. Email address

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

Exempt - municipal project

a. Total Fee Paid

b. State Fee Paid

c. City/Town Fee Paid





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**A. General Information (continued)**

6. General Project Description:

The applicant is proposing wildlife/perimeter fence improvements/replacement within 4 discrete locations on the Airport.

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

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Single Family Home                        | 2. <input type="checkbox"/> Residential Subdivision       |
| 3. <input type="checkbox"/> Commercial/Industrial                     | 4. <input type="checkbox"/> Dock/Pier                     |
| 5. <input type="checkbox"/> Utilities                                 | 6. <input type="checkbox"/> Coastal engineering Structure |
| 7. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) | 8. <input type="checkbox"/> Transportation                |
| 9. <input checked="" type="checkbox"/> 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)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR 10.24(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:

Bristol

a. County

125-22 - Book: 1294, Page 564; 123C-225 -  
Book: 930, Page: 214;

b. Certificate # (if registered land)

122-3 - Book: 949, Page: 295

d. Page Number

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

- ☐ 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.
- ☒ 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.



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**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 checked="" type="checkbox"/> Bordering Vegetated Wetland	~3 s.f. permanent impact; 3,738 s.f. temporary impact	0 2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	43 1. square feet 0 (metal fence post) 3. cubic feet of flood storage lost	0 2. square feet 0 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.



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**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. <input type="checkbox"/> 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. <input type="checkbox"/> 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](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**

2017

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 <1%  
percentage/acreage

(b) outside Resource Area <1%  
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 <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/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 [http://www.mass.gov/dfwele/dfw/nhosp/regulatory\\_review/ mesa/ mesa\\_fee\\_schedule.htm](http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_fee_schedule.htm)).  
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, [http://www.mass.gov/dfwele/dfw/nhosp/regulatory\\_review/ mesa/ mesa\\_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_exemptions.htm); 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:

Division of Marine Fisheries -  
Southeast Marine Fisheries Station  
Attn: Environmental Reviewer  
836 South Rodney French Blvd.  
New Bedford, MA 02744  
Email: [DMF.EnvReview-South@state.ma.us](mailto:DMF.EnvReview-South@state.ma.us)

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -  
North Shore Office  
Attn: Environmental Reviewer  
30 Emerson Avenue  
Gloucester, MA 01930  
Email: [DMF.EnvReview-North@state.ma.us](mailto:DMF.EnvReview-North@state.ma.us)

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.





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

**Online Users:**

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

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: **(N/A fence project)**
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.



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**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.

New Bedford Regional Airport Security/Wildlife Fence Phase I

a. Plan Title

Airport Solutions Group

b. Prepared By

October 2019

d. Final Revision Date

c. Signed and Stamped by

1" = 20'

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:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name



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**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

2. Date

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (if any)

6. Date

**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.

## **Attachment A**

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Project Narrative

## ATTACHMENT A – PROJECT NARRATIVE

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### 1.0 Introduction

On behalf of the City of New Bedford Regional Airport Commission (the “Applicant” or the “Airport”), Epsilon Associates, Inc. (“Epsilon”) is pleased to submit this Notice of Intent (“NOI”) to the New Bedford Conservation Commission (the “Commission”). This NOI was prepared in accordance with the Massachusetts Wetland Protection Act (MGL c.131 s.40) (“Act”) and implementing Regulations (310 CMR 10.00) and the City of New Bedford Wetlands Ordinance.

The Airport is proposing to conduct perimeter and wildlife fencing improvements in four discrete locations on the Airport property (see Areas A through D on Figures 1 and 2). Sections of the perimeter fence have exceeded their useful life and are inadequate at preventing deer and other mammals access to the runways and taxiways. Additionally, some sections of the fence are inaccessible to Airport staff and cannot be effectively managed, thus contributing to this safety hazard. The Airport’s top priority is to minimize the risk of wildlife collisions with aircraft; therefore, wildlife exclusion fencing is a key component of the safety and management strategy at the Airport to avoid wildlife strikes by aircraft. The proposed fence replacements will allow the Airport to effectively access and maintain their perimeter fence to exclude hazardous wildlife.

To meet the project purpose and need, i.e. to exclude wildlife from airport property to maximize safe airport operations, the Applicant proposes fence work in four locations. Specifically, fence improvements (fence replacement and new fencing in select locations) are proposed east of Runway 23 (Area A); north of Runway 32 (Area B); along Downey Street (Area C); and south of the Colonial Air ramp and hangar (Area D). These four areas are identified on the figures provided in Attachment B and the permit drawings provided in Attachment F.

Portions of the proposed fence improvements will occur within Bordering Vegetated Wetland (“BVW”), Bordering Land Subject to Flooding (“BLSF”), the Commission’s suggested 25-foot setback, and the 100-foot buffer zone to BVW. The proposed Project will result in minor alterations to these resource areas. The work described herein has been designed to conform to the Wetlands Protection Act and Ordinance performance standards that are applicable to these resource areas. Additional information describing the proposed work is provided below.

### 2.0 Project Locus

The Project site is located at the New Bedford Regional Airport in New Bedford, Massachusetts (see Figure 1 – USGS Locus Map in Attachment B). Runway 5/23 is the Airport’s primary and instrument landing runway, while Runway 14/32 is the Airport’s crosswind runway (see Figure 2 – Aerial Map in Attachment B). Wetlands are located around the majority of the Airport, including extensive wetland systems located within the Runway 5 and 14 approaches (see Figure 3 – MassGIS Wetlands in Attachment B).



### 3.0 Wetland Resource Areas and Buffer Zones

Wetland resources on the New Bedford Regional Airport property (including portions of the locations of work described herein) were delineated and surveyed between 1996 and 2000 and in 2003 through the MassDEP Variance proceedings associated with the larger Runway 5/23 Safety Improvements Project (MassDEP File Number SE 049635). MassDEP approved a request for the extension of the Variance until February 26, 2021. The approved wetland resource area boundaries are depicted on the enclosed drawings where they exist within close proximity to the proposed work.

Wetland resource areas in the vicinity of the Project area are described below.

#### 3.1 ***Bordering Vegetated Wetlands***

BVW is defined at 310 CMR 10.55 and, BVWs generally include freshwater wetlands that border on creeks, rivers, streams, ponds, and lakes. Types of freshwater wetlands include wet meadows, marshes, swamps, and bogs. BVWs are areas where the soils are saturated and/or inundated such that they support a predominance of wetland indicator plants. The ground and surface water regime and the plant community that occur in each type of freshwater wetland are specified in the Act. The boundary of BVW is the line within which 50 percent or more of the plant community, based on visual inspection, consists of wetland indicator plants and saturated and inundated conditions exist. Pursuant to the Act, there is a 100-foot Buffer Zone associated with BVW and the Commission's suggested 25 foot minimum setback under the Ordinance.

Wetlands within the vicinity of the Project area consist of:

#### **Wetland M:**

BVW series M delineates an emergent, scrub-shrub and forested wetland containing areas of ponded surface water. It is located south of the Colonial Air hangar. Vegetation adjacent to the taxiway is dominated by common reed (*Phragmites australis*). Vegetation along the existing dirt access way, east of the Colonial Air hangar includes palustrine forested and scrub-shrub wetlands. The forested wetlands east of the access road are dominated by sweet pepperbush (*Clethra alnifolia*), northern arrowwood (*Viburnum recognitum*) and red maple (*Acer rubrum*), with sensitive fern (*Onoclea sensibilis*), tussock sedge (*Carex stricta*), greenbriar (*Smilax rotundifolia*), and poison ivy (*Toxicodendron radicans*) in the understory. An open water feature is located immediately south of the Colonial Air hangar as the access road turns west and into the fenced Airport environment.

A section of fence replacement (Area D) is proposed within Wetland Series M.

**Wetland P:**

BVW Series P delineates an emergent and scrub-shrub wetland containing areas of ponded surface water. Dominant emergent vegetation within the emergent portion of Wetland P includes common reed, boneset (*Eupatorium perfoliatum*), sensitive fern, jewelweed (*Impatiens capensis*), sedges (*Carex* spp.) and goldenrod (*Solidago* spp.). BVW P is drained by an intermittent channel / drainage ditch, described below as Stream L.

No work is proposed within Wetland Series P; however, sections of fence replacement within Area C are proposed within the 100-foot buffer zone to this wetland.

**Wetland K:**

BVW Series K delineates an emergent wetland containing areas of ponded surface water that is actively managed through the Airport's Vegetation Management Plan ("VMP"). Dominant emergent vegetation includes common reed, woolgrass (*Scirpus cyperinus*), soft rush (*Juncus effusus*) and goldenrod. BVW K is drained by an intermittent channel / drainage ditch, described below as Stream L.

Sections of new fence within Area B are proposed within Wetland K and the 100-foot buffer zone to Wetland K.

**Wetland J:**

BVW Series J delineates an emergent/scrub-shrub/forested wetland. Dominant vegetation includes common reed, woolgrass, goldenrod, and red maple. BVW J borders on Stream L, the intermittent stream channel / drainage ditch described below.

No work is proposed within Wetland Series K; however, sections of fence replacement within Area B are proposed within the 100-foot buffer zone to this wetland.

**Wetland L:**

BVW Series L delineates an emergent and scrub-shrub wetland containing areas of ponded surface water. The area adjacent to the taxiway is actively managed through the Airport's VMP and dominant emergent vegetation includes wool grass, soft rush and goldenrod. Dominant scrub-shrub vegetation outside of the safety area includes sweet pepperbush, greenbrier, and red maple saplings. Wetland L is drained by an intermittent channel / drainage ditch.

No work is proposed within Wetland L; however, a portion of the proposed fence replacement work within Area A is located within the 100-foot buffer zone to Wetland L.

### **3.2            *Inland Bank & Land Under Water***

Inland Bank is defined in the Wetlands Protection Act Regulations at 310 CMR 10.54 as the portion of the land surface which normally abuts and confines a water body. It occurs between a water body and a BVW and adjacent floodplain, or, in the absence of these, it occurs between a water body and an upland. The upper boundary of bank is the first observable break in slope or the mean annual flood level, whichever is lower. The lower boundary of bank is the mean annual low flow level. There is a 100 foot Buffer Zone associated with Inland Bank and the Commission's suggested 25 foot minimum setback under the Ordinance.

LUW is defined in the Wetlands Protection Act Regulations at 310 CMR 10.56 as land beneath any creek, river, stream, pond or lake. Said land may be composed of organic muck or peat, fine sediments, rocks or bedrock. The boundary of LUW is the mean annual low water level. There is no Buffer Zone associated with LUW.

#### **Stream L:**

Stream L is a stormwater drainage ditch/man-made intermittent channel that drains Wetland L and flows into the Airport's stormwater system, ultimately under Runway 14/32 daylighting in Wetland P, south of Downey Street. The ditch in question was likely created pre-1971. The channel appears to have been lined with asphalt at one point and is approximately three to four feet wide. The channel is actively managed through the Airport's VMP. Dominant emergent vegetation includes woolgrass, soft rush, goldenrod and cut arrowwood and sweet fern (*Comptonia peregrina*) stalks.

No work is proposed in Bank or LUW.

### **3.3            *Bordering Land Subject to Flooding***

According to the applicable Federal Emergency Management Agency - Flood Insurance Rate Maps ("FEMA-FIRM"), Community Panel Numbers #255215C0387F, Revision Dates July 7, 2009, portions of the southwestern end of the Airport are located within the 100-year floodplain.

A portion of the fence replacement work within Area D is proposed to occur within the 100-year floodplain.

## **4.0    Project Description**

### **4.1            *Project Purpose***

Most of the Airport is currently surrounded by an 8-foot high chain link fence with three strands of barbed wire. The Runway 5 end contains a 10-foot high wildlife exclusion fence with three strands of barbed wire. Existing swing gates or powered slide gates with key card access are generally 12 to 22 feet wide and provide access to the Airport at specific locations. The perimeter fence serves as both security fence and wildlife exclusion fencing.

Deer are the most hazardous animal to aircraft according to FAA Advisory Circular 150/5200-33B and numerous FAA and United States Department of Agriculture – Wildlife Services (“USDA-WS”) funded wildlife damage research documents. On average, they do more damage when struck by a plane than any other animal. Deer are also dangerous because they will dart in front of an aircraft at the last minute. Deer are abundant in southeastern Massachusetts and are known to occur on the Airport property, as a result deer are the highest priority for population management at the Airport. Coyotes also pose a threat as they will commonly cross runways and taxiways to new feeding grounds or use gravel and paved areas as travel corridors because of ease of travel.

Airport management seeks to operate the airport in a safe manner to protect the lives of aircraft operators and aircraft. Recent inspection of the perimeter security and wildlife exclusion fence identified locations where the fence did not meet minimum height standards to prevent wildlife from entering protected Airport property. Numerous studies and literature indicate that white-tailed deer can readily jump fences that are four and six feet tall. The FAA has provided the Recommended Wildlife Exclusion Fencing CertAlert 16-03 that discusses adequate fence heights and construction details to deter large mammals like deer from jumping fences, and coyotes from scaling or undermining fences.

Improvements are proposed in four discrete locations on the Airport property, labeled as Areas A through D on the figures and permit drawings, where the fence is inadequate at excluding wildlife. Specifically, the Applicant proposes to:

- ◆ Area A - Replace a section of existing fence and install a new double swing gate northeast of Runway 23;
- ◆ Area B - Install a new section of fence in a more accessible location than the current fence north of Runway 32;
- ◆ Area C - Replace sections of fence and install new double swing gates along Downey Street; and
- ◆ Area D - Install new sections of 8-foot high wildlife exclusion fencing and install new double swing gates south of the Colonial hangar.

The recommended layout of the wildlife exclusion fence strikes a balance between FAA recommendations, development strategies and environmental factors. The alignment is based on a combination of factors, including consideration of FAA Runway Protection Zones and FAA Part 77 approach surface restrictions, minimizing BWV impacts.

In summary, the primary purpose of the fence improvement work is to ensure public safety by keeping wildlife (particularly larger mammals) off the Airport runways and safety areas. In Area B, the current fence is located along the tree line and cannot be physically accessed by Airport staff or equipment for maintenance purposes due to the presence of a drainage

ditch/intermittent stream that would need to be crossed. Therefore, new fence is proposed directly adjacent to an existing vegetated access road in this area south of the drainage ditch so that the fence can be actively maintained. Security is an important secondary benefit of the wildlife exclusion fence.

#### **4.2                *Existing Fence Removal and New Fence Installation Locations***

Proposed fence improvement work and impacts to wetland resource areas are described below and summarized in Table 4-1 on the following page. Please refer to the photos in Attachment C for photos of each of the proposed fence replacement areas.

##### **Area A - Northeast of Runway 23:**

A total of 759 linear feet (l.f.) of fence replacement, along with a new double swing gate, are proposed in this area. Of this total, approximately 125 l.f. will occur within the 100-foot buffer zone, and 35 l.f. within the 25-foot buffer zone.

##### **Area B - North of Runway 32:**

The section of fence includes the replacement of 1,016 l.f. of fence and the installation of 1,187 l.f. of new fence north of Runway 32, along a vegetated access road. As previously noted, the current fence is located along the tree line and cannot be physically accessed by Airport staff or equipment for maintenance purposes due to the presence of a drainage ditch/intermittent stream that would need to be crossed. Therefore, new fence is proposed directly adjacent to an existing vegetated access road in this area south of the drainage ditch so that the fence can be actively maintained. Two new double swing gates are also proposed in this section.

This work will result in 2 s.f. of permanent impacts to BVW, resulting from the installation of 205 fence posts, and approximately 2,268 s.f. of temporary impacts to BVW, from the placement of timber construction mats in wetlands.

Approximately 1,625 l.f. of this work will occur within the 100-foot buffer zone, 1,400 l.f. of which will occur in the 25-foot buffer zone.

##### **Area C - Downey Street:**

The section of fence along Downey Street has exceeded its useful life and is too short to effectively exclude wildlife. Approximately 1,358 l.f. of fence in this area is proposed for replacement, 1,358 l.f. of which is located in the 100-foot buffer zone to BVW. This section of fence is all located within existing paved area and is located across the street from the wetland.



#### **Area D - Colonial Ramp and Hangar Area:**

A section of the existing fence in this location has fallen and is underwater, thus is inadequate and unfeasible to maintain (see photo 1 in Attachment C). Approximately 478 l.f. of new chain link fence is proposed south of the hangar in a location that will be accessible to Airport staff. A section of 364 l.f. of existing fence that is falling down and is impossible to maintain in this location is also proposed for replacement. Two double swing gates are proposed in the location as well.

This work will result in approximately 1 s.f. of permanent impacts to BVW, resulting from the installation of 12 fence posts, and approximately 1,470 s.f. of temporary impacts to BVW, from the placement of timber construction mats in wetlands.

The section of fence installation and replacement work in this area is also located within the 100-year floodplain. The proposed fence will span the floodplain and the only impacts to this resource area will result from the installation of the fence posts. The installation of these fence posts will not result in any measurable loss of flood storage.

Approximately 1,470 l.f. of new and replacement fencing will be located in the 100-foot buffer zone, 1,470 l.f. of which will be located in the 25-foot buffer zone.

#### **4.3 Fence Installation Construction**

The sections of proposed new and replacement fence will be 8-foot tall chain link fencing. The fence will be supported by 3-inch diameter galvanized steel posts. Posts will be spaced roughly at 10 foot intervals. The fence will be set flush to the ground to prohibit mammal passage. Construction techniques vary when work is proposed in BVW or upland areas, as described below.

##### **4.3.1 Work in BVW**

Within BVW, the fence posts will be directly embedded into the ground to a depth of about 10 feet. Concrete footings will not be used when installation is occurring in BVW. Posts will be mechanically vibrated into the ground using a hammer attached to a small excavator. In situations where refusal is encountered at depths less than four feet the fence posts will be set with wedge anchor collars. Where refusal is greater than four feet but less than ten feet the fence posts will be stabilized with batter posts installed at 45 degree angles on either side. The equipment will be operated on timber construction mats or composite Terramats™ (or equivalent), as applicable, to protect the underlying wetland. Some limited vegetation removal (brush, saplings, etc.) may be necessary to access the work zones.

Upon completion of the project, the BVW will be restored to its preexisting undergrowth vegetation condition through the removal of swamp mats, soil decompaction and re-vegetation of the site. Wetlands will be allowed to re-vegetate naturally. If necessary, a wetland seed mix will be used to stabilize the areas upon removal of mats.

#### **4.3.2 Work in Uplands**

In upland areas, fence and gate posts will be secured with concrete footings. It is the contractor's option to use precast foundations or redimix. Vegetation will be removed from within an approximately 20-foot wide work zone.

All staging of material and equipment for the duration of the project will take place outside the 100-ft buffer zone to BVW. The contractor's staging area will be located in a paved area opposite the terminal building.

The Airport would like to commence work in Fall 2020. The entire project is expected to take approximately eight (8) weeks.

#### **4.4 Summary of Wetland Resource Area Impacts**

Wetland resource area and buffer zone impacts are summarized in the following table.

**Table 4-1 Wetland Resource Area Impacts**

Resource Area	Permanent Impact (s.f.)	Temporary Impact (s.f.)
<b>Bordering Vegetated Wetland (BVW)</b>	3 s.f. (fence posts)	3,738 s.f. (mats to protect wetlands)
<b>Bordering Land Subject to Flooding (BLSF)</b>	43 s.f. (fence posts)	N/A

### **5.0 Compliance with Performance Standards**

Compliance with the performance standards for BVW and BLSF are discussed below.

#### **5.1 Bordering Vegetated Wetland**

The proposed fence construction will involve temporary and minor permanent impacts to BVW. The project satisfies the performance standards for projects affecting BVW, which are found at 310 CMR 10.55(4) and are discussed below.

**[310 CMR 10.55 (4)(a)] Where the presumption set forth in 310 CMR 10.55(3) is not overcome, any proposed work in a Bordering Vegetated Wetland shall not destroy or otherwise impair any portion of said area.**

Installation of 4,600 linear feet of fence line within BVW will have a minimal long-term alteration of approximately three square feet of BVW by approximately forty-eight (48) new 2.4-inch diameter fence posts will be installed within BVW. The fence will be set flush with the ground and permanent impacts will occur as a result of setting posts within BVW in two discrete locations (within Zones B and D). Concrete will not be used to set the posts in BVW. Temporary alteration to the BVW will result from the placement of timber swamp mats to support workers and equipment to install posts and fence. Swamp mats will alter approximately 3,738 square feet of BVW. To minimize impacts to vegetation, plants will be cut off at grade and root will not be removed. This will allow plants to re-grow from roots, stumps and the soil seedbank. Timber mats will only create temporary impacts, and the installation of the posts is not expected to affect the functions and values of the BVW for the long-term.

**(b) Notwithstanding the provisions of 310 CMR 10.55(4)(a), the issuing authority may issue an Order of Conditions permitting work which results in the loss of up to 5000 square feet of Bordering Vegetated Wetland when said area is replaced in accordance with the following general conditions and any additional, specific conditions the issuing authority deems necessary to ensure that the replacement area will function in a manner similar to the area that will be lost...**

Because the Project only results in 3 s.f. of BVW fill, it is not practicable to provide wetland replication in this de minimus amount.

**(c) Notwithstanding the provisions of 310 CMR 10.55(4)(a), the issuing authority may issue an Order of Conditions permitting work which results in the loss of a portion of Bordering Vegetated Wetland when;**

- 1. said portion has a surface area less than 500 square feet;*
- 2. said portion extends in a distinct linear configuration ("finger-like") into adjacent uplands; and*
- 3. in the judgment of the issuing authority it is not reasonable to scale down, redesign or otherwise change the proposed work so that it could be completed without loss of said wetland.*

See above.

**(d) Notwithstanding the provisions of 310 CMR 10.55(4)(a),(b) and (c), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.**

A copy of the NOI has been sent to the NHESP for review and comment relative to the proposed work in Estimated and Priority Habitat.

**(e) Any proposed work shall not destroy or otherwise impair any portion of a Bordering Vegetated Wetland that is within an Area of Critical Environmental Concern designated by the Secretary of Energy and Environmental Affairs under M.G.L. c. 21A, § 2(7) and 301 CMR 12.00: Areas of Critical Environmental Concern.**

The Project is not located an Area of Critical Environmental Concern.

## **5.2            *Bordering Land Subject to Flooding***

The project satisfies the performance standards for projects affecting BLSF, which are found at 310 CMR 10.57(4)(a) and are discussed below.

**[310 CMR 10.57 (4)(a)1.] Compensatory storage shall be provided for all flood storage volume that will be lost as the result of a proposed project within Bordering Land Subject to Flooding, when in the judgment of the issuing authority 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.**

The proposed work in BLSF is limited to the installation of approximately seventy (70) 2.5" diameter fence posts. The fence posts will not result in any measurable displacement of flood storage.

**(a)2. Work within Bordering Land Subject to Flooding, including that work required to provide the above-specified compensatory storage, shall not restrict flows so as to cause an increase in flood stage or velocity.**

As noted above, the proposed fence posts will not result in any measurable displacement of flood storage.

**(a)3. Work in those portions of bordering land subject to flooding found to be significant to the protection of wildlife habitat shall not impair its capacity to provide important wildlife habitat functions. Except for work which would adversely affect vernal pool habitat, a project or projects on a single lot, for which Notice(s) of Intent is filed on or after November 1, 1987, that (cumulatively) alter(s) up to 10% or 5,000 square feet (whichever is less) 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 habitat functions. Additional alterations beyond the above threshold, or altering vernal pool habitat, may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures contained in 310 CMR 10.60.**

The proposed work in BLSF conforms to the above referenced thresholds and is thus presumed to not impair the capacity of BLSF to provide important wildlife habitat functions. Please refer to the Wildlife Habitat Evaluation Form provided in Attachment G for additional detail.

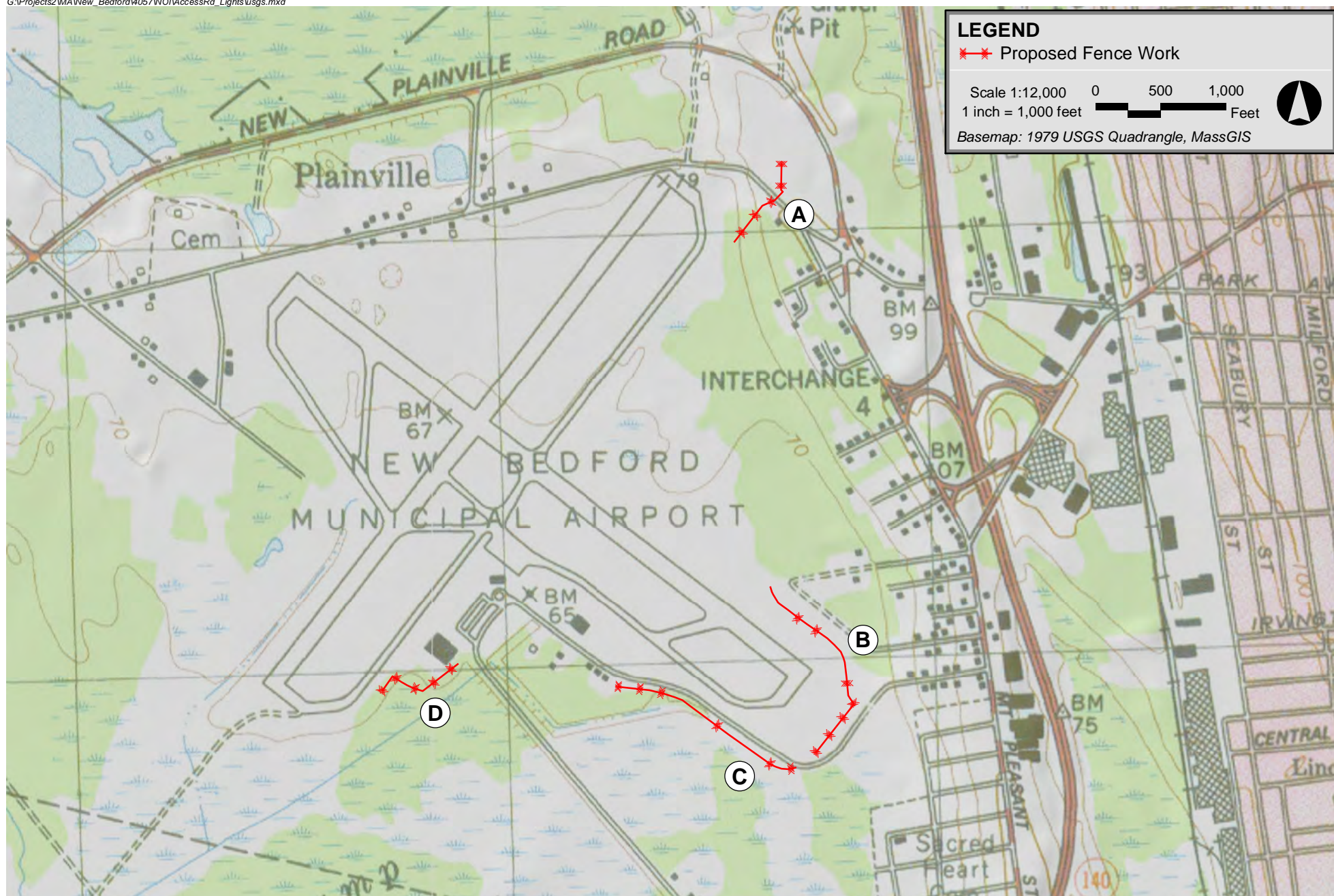
## **6.0 Conclusions**

The information contained in this NOI and the accompanying plans describes the site, proposed work and compliance with the Regulations. The proposed work will contribute to the protection of the interests of the Act and Ordinance by complying with BVW and BLSF general performance standards established in the Regulations. The Applicant therefore respectfully requests that the Commission issue an Order of Conditions approving the Project with appropriate conditions to protect the interests identified in M.G.L. c. 131 §40 and the New Bedford Wetlands Ordinance.

## **Attachment B**

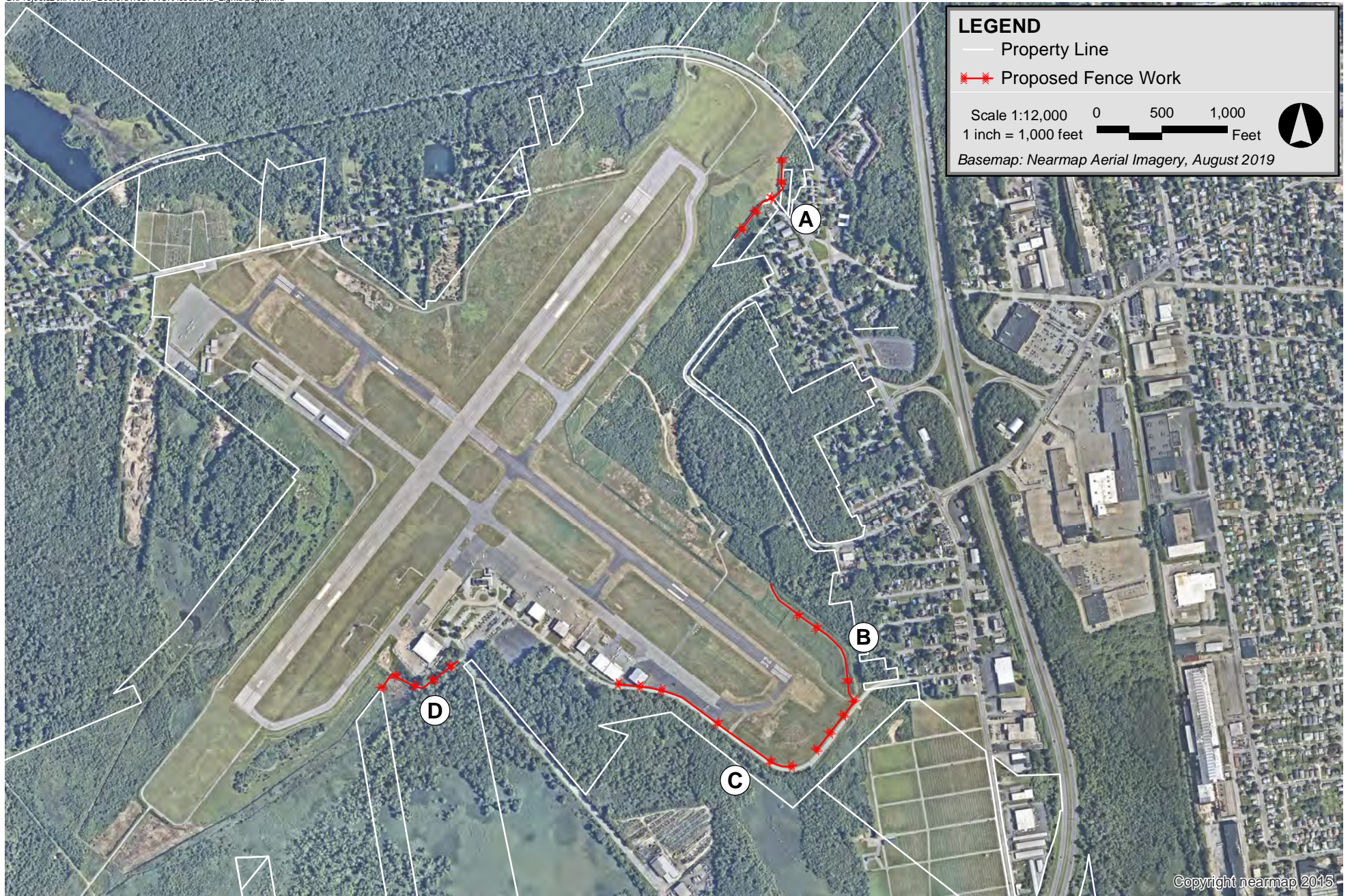
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Figures



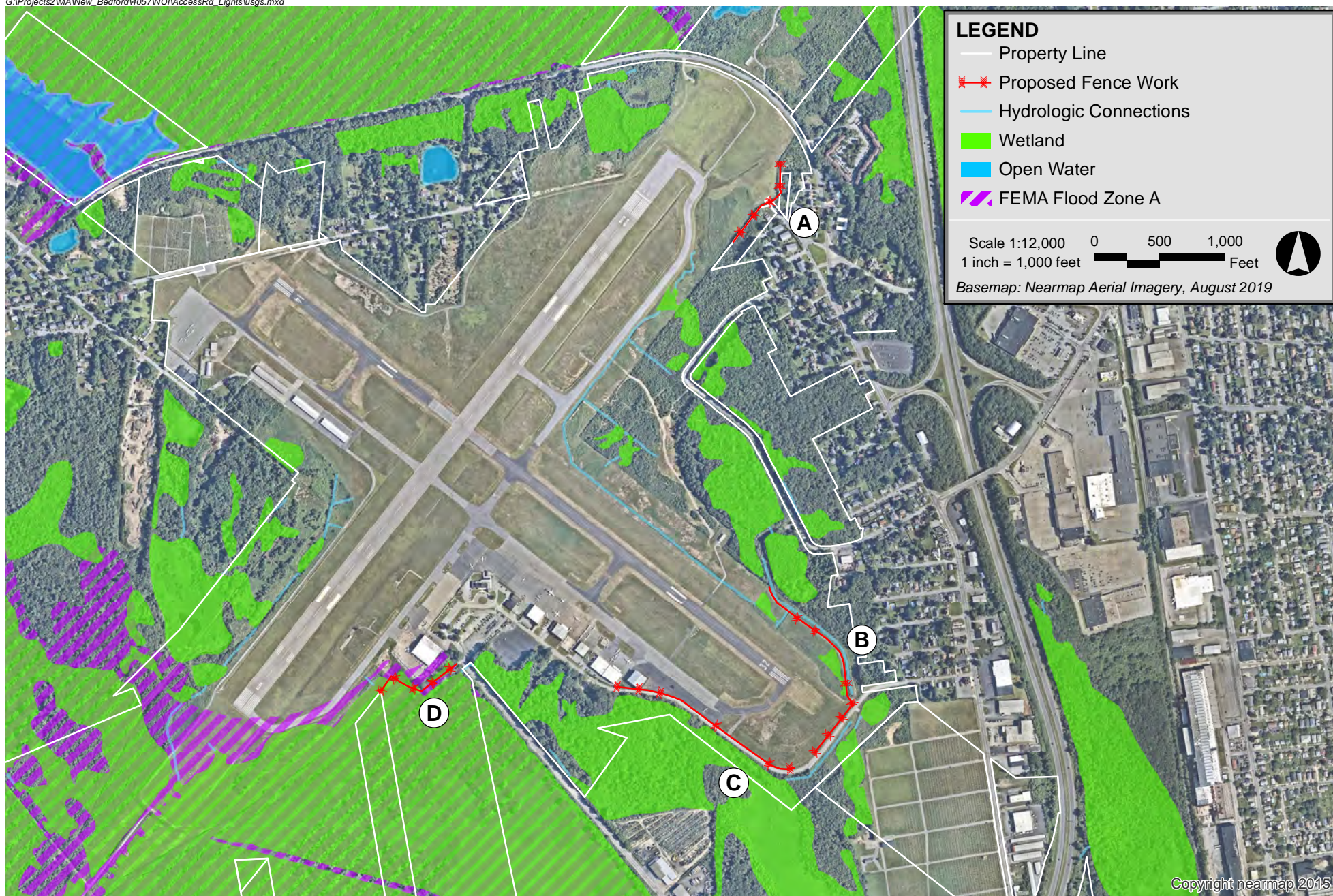
New Bedford Regional Airport Fence Project New Bedford, Massachusetts





New Bedford Regional Airport Fence Project New Bedford, Massachusetts





New Bedford Regional Airport Fence Project New Bedford, Massachusetts





New Bedford Regional Airport Fence Project New Bedford, Massachusetts



**Attachment C**

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Site Photographs



**Photo 1: View of Zone D - perimeter fence section proposed for replacement near the Colonial ramp and hangar. A section of the fence is currently underwater and cannot be accessed for maintenance.**



**Photo 2: View of Zone D - fence section to be replaced near the Colonial hangar within the 100-foot buffer zone.**





**Photo 3: View of Zone C - section of fence to be replaced along Downey Street, located in the 100-foot buffer zone.**



**Photo 4: View of Zone B - southwest of section of fence to be replaced along Downey Street southeast of the Runway 32 end.**





**Photo 5: View of Zone B, west of proposed fence relocation north of Runway 32. Fence would be added to the toe of slope of the access road in the northern part of this photo (right side of photo). The existing fence is located along the tree line shown in the right side of this photo and is currently inaccessible.**

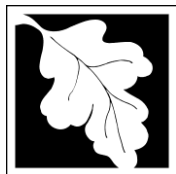


**Photo 6: View of Zone A - fence section to be replaced northeast of Runway 23, located in the 100-foot buffer zone.**

**Attachment D**

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Filing Fee Information



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

1569 Airport Road

a. Street Address

New Bedford

b. City/Town

Exempt - Municipal project

d. Fee amount

c. Check number

### 2. Applicant Mailing Address:

Scot

a. First Name

Servis

b. Last Name

New Bedford Regional Airport, Airport Manager

c. Organization

1569 Airport Road

d. Mailing Address

New Bedford

e. City/Town

MA

f. State

02746

g. Zip Code

(508) 991-6160

h. Phone Number

i. Fax Number

Scot.Servis@newbedford-ma.gov

j. Email Address

### 3. Property Owner (if different):

a. First Name

b. Last Name

City of New Bedford

c. Organization

133 William Street

d. Mailing Address

New Bedford

e. City/Town

MA

f. State

02740

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

## 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.

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





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

**B. Fees** (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Exempt - municipal project			

**Step 5/Total Project Fee:** \_\_\_\_\_

**Step 6/Fee Payments:**

Total Project Fee: \_\_\_\_\_  
a. Total Fee from Step 5

State share of filing Fee: \_\_\_\_\_  
b. 1/2 Total Fee **less** \$12.50

City/Town share of filing Fee: \_\_\_\_\_  
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.)

**Attachment E**

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Abutter Notification Information

## **Notification to Abutters under the City of New Bedford Wetlands Ordinance**

In Accordance with the City of New Bedford Wetlands Ordinance (New Bedford Code of Ordinances Sections 15-101 through 15-112) you are hereby notified of the following.

The name of the applicant is: New Bedford Regional Airport.

The applicant has filed a Notice of Intent ("NOI") for the municipality of New Bedford, Massachusetts seeking permission to remove, fill, dredge or alter an area subject to protection under the City of New Bedford Wetlands Ordinance (New Bedford Code of Ordinances Sections 15-101 through 15-112). The applicant is proposing improvements to its wildlife perimeter fence in 4 discrete locations. Certain activities are proposed within Bordering Vegetated Wetlands, Bordering Land Subject to Flooding, and the 100-foot Buffer Zone and are subject to review by the City of New Bedford Conservation Commission under the Massachusetts Wetlands Protection Act and the City of New Bedford Wetlands Ordinance.

The address of the lot where the activity is proposed is New Bedford Regional Airport, 1569 Airport Road, New Bedford, MA; Assessor's Map, Lot: 125-22, 123C-225, 123-3, 122-3.

Copies of the NOI may be examined at the New Bedford Conservation Commission, City Hall, 133 William St. Room 304 New Bedford, MA 02740 between the hours of 8:00 AM and 4:00 PM, Monday through Friday. For more information call (508) 991-6188.

Copies of the NOI may be obtained from the applicant's representative Epsilon Associates, Inc., 3 Mill & Main Place, Suite 250, Maynard, MA, 01754 by calling this telephone number (978) 897-7100 between the hours of 9:00 AM and 5:00 PM Monday through Friday.

Information regarding the date, time and place of the public hearing may be obtained from New Bedford Conservation Commission by calling 508-991-6188 between the hours of 8:00 AM and 4:00 PM Monday through Friday.

Note: Notice of the Public hearing, including its date, time and place, will be posted in the City Hall not less than forty eight (48) hours in advance of the meeting.

Note: Notice of the Public Hearing including its date, time and place, will be published at least five (5) days in advance in the Standard Times.

Note: You may also contact the New Bedford Conservation Commission at 508-991-6188 for more information about this publication or the City of New Bedford Wetlands Ordinance.



## City of New Bedford REQUEST for a CERTIFIED ABUTTERS LIST

This information is needed so that an official abutters list as required by MA General Law may be created and used in notifying abutters. You, as applicant, are responsible for picking up and paying for the certified abutters list from the assessor's office (city hall, room #109).

OCT 08 2019

SUBJECT PROPERTY	
MAP #	LOT(S)#
	Parcels 125-22, 123C-225, 123-3, and 122-3
ADDRESS: 1569 Airport Road, New Bedford, MA 02746	
OWNER INFORMATION	
NAME: City of New Bedford	
MAILING ADDRESS: 133 William Street, New Bedford, MA 02740	
APPLICANT/CONTACT PERSON INFORMATION	
NAME (IF DIFFERENT): Applicant: New Bedford Regional Airport; Applicant's representative: Epsilon Associates, Inc.	
MAILING ADDRESS (IF DIFFERENT): Epsilon Associates, Inc. c/o Rhianna Sommers, 3 Mill & Main Place, Suite 250 Maynard, Massachusetts 01754	
TELEPHONE #	978-461-6225
EMAIL ADDRESS:	rsommers@epsilonassociates.com
REASON FOR THIS REQUEST: <i>Check appropriate</i>	
<input type="checkbox"/>	ZONING BOARD OF APPEALS APPLICATION
<input type="checkbox"/>	PLANNING BOARD APPLICATION
<input checked="" type="checkbox"/>	CONSERVATION COMMISSION APPLICATION
<input type="checkbox"/>	LICENSING BOARD APPLICATION
<input type="checkbox"/>	OTHER (Please explain):

Once obtained, the Certified List of Abutters must be attached to this Certification Letter.

Submit this form to the Planning Division Room 303 in City Hall, 133 William Street. You, as applicant, are responsible for picking up and paying for the certified abutters list from the assessor's office (city hall, room #109).

### Official Use Only:

As Administrative Assistant to the City of New Bedford's Board of Assessors, I do hereby certify that the names and addresses as identified on the attached "abutters list" are duly recorded and appear on the most recent tax.

Michael J. Motta

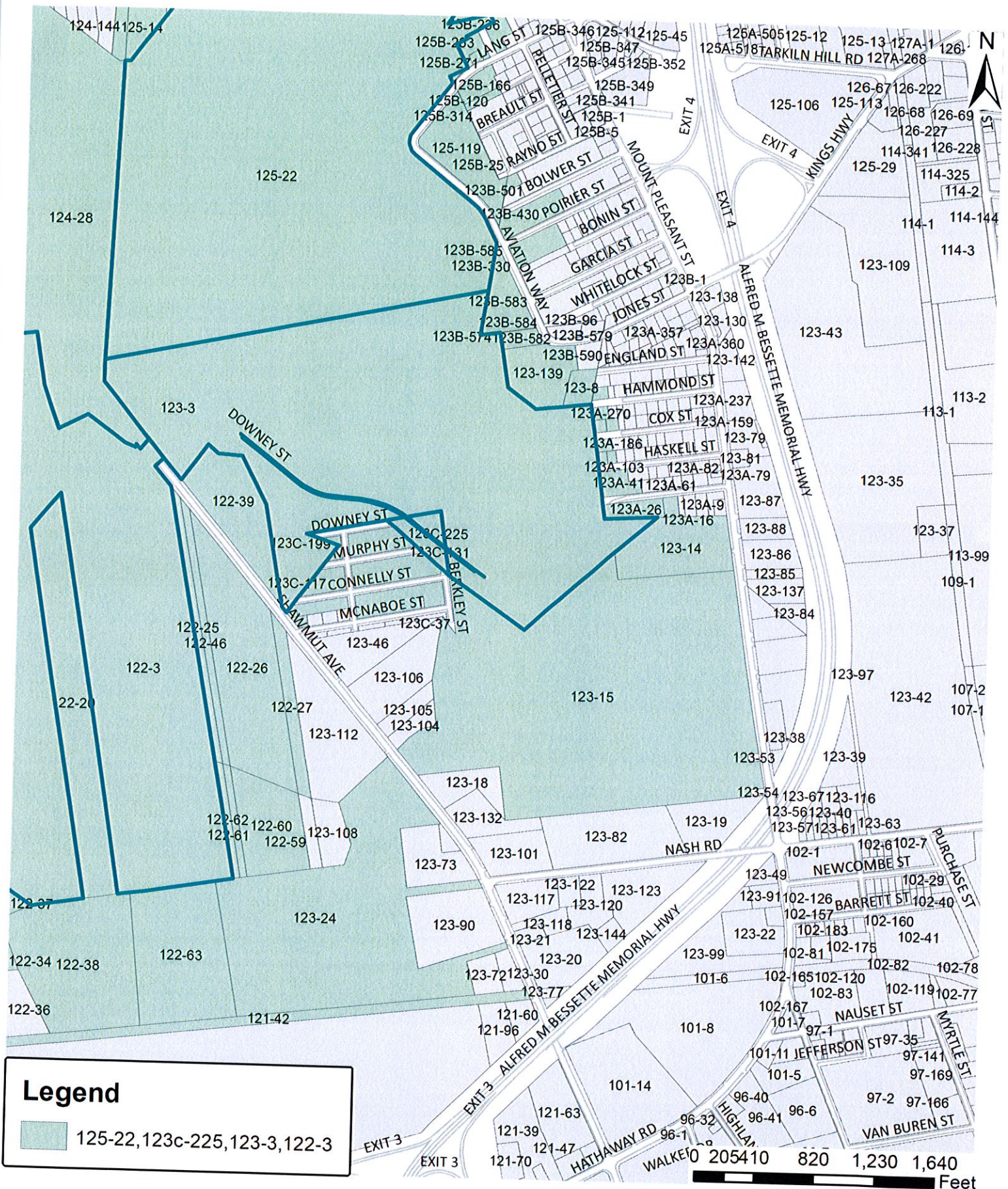
Printed Name

Signature

10-11-2019

Date





City of New Bedford, Massachusetts  
Department of City Planning

Parcel within 100FT





October 9, 2019

Dear Applicant,

Please find below the List of Abutters within 100 feet of the property known as 1569 Airport Road (125-22,123C-225,123-3,122-3). The current ownership listed herein must be checked and verified by the City of New Bedford Assessor's Office. Following said verification, the list shall be considered a Certified List of Abutters.

Please note that multiple listed properties with identical owner name and mailing address shall be considered duplicates and shall require only 1 mailing. Additionally, City of New Bedford-Owned properties shall not require mailed notice.

Parcel	Location	Owner and Mailing Address
122-34	NO OF F R R R	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740
122-33	NO OF F R R R	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740
125-36	1123 OLD PLAINVILLE RD	COACHE MEAGHAN, 1123 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
122-1	NO OF F R R R	CITY OF NEW BEDFORD, CONSERVATION 131 WILLIAM ST NEW BEDFORD, MA 02740
121-1	SOUTH OF F R R	CITY OF NEW BEDFORD, ADDITION TO GOLF COURSE 131 WILLIAM ST NEW BEDFORD, MA 02740
122-32	NO OF F R R R	CITY OF NEW BEDFORD, CONSERVATION 131 WILLIAM ST NEW BEDFORD, MA 02740
121-86 NS	HATHAWAY RD	WHALING CITY GOLF CLUB INC, C/O CITY OF NEW BEDFORD 133 WILLIAM STREET NEW BEDFORD, MA 02740
122-37	SWAMP N OF F R R R New Bedford	CYNTHIA H RITTER LLC, PETER J HAWES LLC PO BOX 87121 DARTMOUTH, MA 02748-0702
121-42	RIGHT OF WAY New Bedford	PENN CENTRAL CO, CONSOLIDATED RAIL CORP 500 WATER STREET DEPT J910 JACKSONVILLE, FL 32202
122-38	NO OF F R R R	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740
122-63	NO OF F R R R	CITY OF NEW BEDFORD, CONSERVATION 131 WILLIAM ST NEW BEDFORD, MA 02740
122-62	NO OF F R R R	CITY OF NEW BEDFORD, CONSERVATION 131 WILLIAM ST NEW BEDFORD, MA 02740
122-17	NO OF F R R R	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740

October 9, 2019

Dear Applicant,

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Parcel	Location	Owner and Mailing Address
123-24	1103 SHAWMUT AVE	CITY OF NEW BEDFORD, BOARD OF HEALTH 131 WILLIAM ST NEW BEDFORD, MA 02740
122-60	NO OF F R R R	CITY OF NEW BEDFORD, CONSERVATION 131 WILLIAM ST NEW BEDFORD, MA 02740
122-61	NO OF F R R R	CITY OF NEW BEDFORD, CONSERVATION 131 WILLIAM ST NEW BEDFORD, MA 02740
122-27 WS	SHAWMUT AVE	A & L ENTERPRISES LLC, P O BOX 50540 NEW BEDFORD, MA 02745
122-2	NO OF F R R R	COUNTY OF BRISTOL, CONSERVATION NEW BEDFORD, MA 02740
122-25 WS	SHAWMUT AVE	CUNNINGHAM GLENN G, CUNNINGHAM DORIS I 13 QUANAPOAG ROAD E FREETOWN, MA 02717
123-15	559 MT PLEASANT ST	ROMAN CATHOLIC BISHOP OF, FALL RIVER SACRED HEART NEW BEDFORD, MA 02740
122-26 WS	SHAWMUT AVE	A & L ENTERPRISES LLC, P O BOX 50540 NEW BEDFORD, MA 02745
123C-225 WS	BERKLEY ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123-14	735 MT PLEASANT ST	ROMAN CATHOLIC BISHOP OF, FALL RIVER SACRED HEART NEW BEDFORD, MA 02740
122-46 WS	SHAWMUT AVE	CUNNINGHAM GLENN G, CUNNINGHAM DORIS I 13 QUANAPOAG ROAD E FREETOWN, MA 02717
122-20 WS R	SHAWMUT AVE	CITY OF NEW BEDFORD, PROVENCAL ADELARD 131 WILLIAM ST NEW BEDFORD, MA 02740
122-39 ES	SHAWMUT AVE	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740

October 9, 2019  
Dear Applicant,

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Parcel	Location	Owner and Mailing Address
123A-119 NS	HASKELL ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123A-41 SS	HASKELL ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123B-574 R	BONIN ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123A-451 WS	MT PLEASANT ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123-3	1513 AIRPORT RD	SANDPIPER AIR, INC., 1529 AIRPORT ROAD NEW BEDFORD, MA 02746
123-8	284 ENGLAND ST	VIOLET TIMOTHY J, 284 ENGLAND STREET NEW BEDFORD, MA 02745
122-3 WS	SHAWMUT AVE	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123-139 SS	JONES ST	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740
123B-582 WS	AVIATION WAY	DECOSTA LLOYD, DECOSTA HELEN 3932 ELROVIA AVE EL MONTE, CA 91731
123B-584 WS	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123B-430 ES	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123B-583 NS	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123B-585 WS	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740



October 9, 2019

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Parcel	Location	Owner and Mailing Address
125-119 ES	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125B-307 WS	PELLETIER ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125B-166 SS	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
124-28 SS	OLD PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125-63	862 OLD PLAINVILLE RD	OLD PLAINVILLE COMMONS LLC, C/O R P PROPERTIES INC 396 WASHINGTON ST #292 WELLESLEY, MA 02481
125-138	33 NEW PLAINVILLE RD	NEW BEDFORD HOUSING AUTHORITY, 134 SOUTH SECOND STREET NEW BEDFORD, MA 02740
125-124	882 OLD PLAINVILLE RD	OLD PLAINVILLE COMMONS LLC, C/O R P PROPERTIES INC 396 WASHINGTON ST #292 WELLESLEY, MA 02481
125B-263 WS	LEMAY ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125B-236 WS	PELLETIER ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125-123	878 OLD PLAINVILLE RD	OLD PLAINVILLE COMMONS LLC, C/O R P PROPERTIES INC 396 WASHINGTON ST #292 WELLESLEY, MA 02481
125-60	1115 OLD PLAINVILLE RD	COACHE ROBERT M "TRS", COACHE JANE A "TRS" 1115 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
125-75	38 NEW PLAINVILLE RD	MACHADO FRANK W, AMARAL JOHN M 40 NEW PLAINVILLE RD NEW BEDFORD, MA 02745
125-116	34 NEW PLAINVILLE RD	BOURGAULT PAMELA A, 34 NEW PLAINVILLE ROAD NEW BEDFORD, MA 02745

October 9, 2019

Dear Applicant,

Please find below the List of Abutters within 100 feet of the property known as 1569 Airport Road (125-22,123C-225,123-3,122-3). The current ownership listed herein must be checked and verified by the City of New Bedford Assessor's Office. Following said verification, the list shall be considered a Certified List of Abutters.

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Parcel	Location	Owner and Mailing Address
125-22 68	NEW PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125-83	1146 OLD PLAINVILLE RD	FERNANDES STEPHEN, 1146 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
125-5	875 OLD PLAINVILLE RD	ANDRADE FRANCISCO S, 875 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
125-139	37 NEW PLAINVILLE RD	NEW BEDFORD HOUSING AUTHORITY, 134 SOUTH SECOND STREET NEW BEDFORD, MA 02740
125-121 125	NEW PLAINVILLE RD	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740
125-14	1172 OLD PLAINVILLE RD	DAVID OCTAVIA J, 1172 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
125-62	904 OLD PLAINVILLE RD	PRATT JEREMY J, CORKUM NICOLE M 904 OLD PLAINVILLE ROAD NEW BEDFORD, MA 02745
125-17	1128 OLD PLAINVILLE RD	MCKAY LILIANNE S, 1128 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
125-38	42 LEBOEUF ST	SARGENT MARY E, 42 LEBOEUF STREET NEW BEDFORD, MA 02745
125-128	52 NEW PLAINVILLE RD	WILLOWS PROPERTY LLC, 941 DYER AVENUE CRANSTON, RI 02920
125-74 125	NEW PLAINVILLE RD	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125-71 125	NEW PLAINVILLE RD	CITY OF NEW BEDFORD, 133 WILLIAM ST NEW BEDFORD, MA 02740
125-4	54 NEW PLAINVILLE RD	FRIAS LUIS "TRUSTEE", SAYED KAMAL "TRUSTEE" GHAZALEH-ABU SAMER "TRS" P O BOX 390430 CAMBRIDGE, MA 02139-0005

October 9, 2019  
Dear Applicant,

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Parcel	Location	Owner and Mailing Address
124-41	1194 OLD PLAINVILLE RD	SHERIDAN CAROL ANN SHERIDAN PATRICK J 1194 OLD PLAINVILLE RD NEW BEDFORD, MA 02745
125-58	SS NEW PLAINVILLE RD	LIVINGSTONE EDWIN PIRES MARY LOU 261 UNION STREET NEW BEDFORD, MA 02740
125-72	NS NEW PLAINVILLE RD	LIVINGSTONE EDWIN PIRES MARY LOU 261 UNION STREET NEW BEDFORD, MA 02740
123A-452 WS	MT PLEASANT ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123A-453 WS	MT PLEASANT ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST. NEW BEDFORD, MA 02740
123A-122 WS	HASKELL ST	POLK ANN M "TRUSTEE", ANN M POLK REVOCABLE TRUST 2007 (THE) 245 HASKELL ST NEW BEDFORD, MA 02745-4814
123A-16	234 DOWNEY ST	BOUTIN JANE, BARCELLOS JOHN 234 DOWNEY ST NEW BEDFORD, MA 02745
123A-192 SS	COX ST	CITY OF NEW BEDFORD, HERBERT EDWARD 131 WILLIAM ST. NEW BEDFORD, MA 02740
123A-197 NS	COX ST	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740
123A-201 NS	COX ST	CITY OF NEW BEDFORD, 131 WILLIAM ST. NEW BEDFORD, MA 02740
123A-26 SS	DOWNEY ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123A-270 SS	HAMMOND ST	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740

October 9, 2019  
Dear Applicant,

Please find below the List of Abutters within 100 feet of the property known as 1569 Airport Road (125-22,123C-225,123-3,122-3). The current ownership listed herein must be checked and verified by the City of New Bedford Assessor's Office. Following said verification, the list shall be considered a Certified List of Abutters.

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Parcel	Location	Owner and Mailing Address
123A-275 NS	HAMMOND ST	CITY OF NEW BEDFORD, 133 WILLIAM STREET NEW BEDFORD, MA 02740
123B-330 ES	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
123B-539 ES	RAYNO ST	CITY OF NEW BEDFORD, 131 WILLIAM ST NEW BEDFORD, MA 02740
123C-117 NS	CONNELLY ST	CITY OF NEW BEDFORD, WATKINS CHARLES S. 131 WILLIAM ST. NEW BEDFORD, MA 02740
123C-131 NS	CONNELLY ST	CITY OF NEW BEDFORD, WATKINS CHARLES S. 131 WILLIAM ST. NEW BEDFORD, MA 02740
123C-18 ES	SHAWMUT AVE	MIRANDA ALVARINO, MIRANDA EMMA T FERNANDES ABEL 24 TEMPLETON STREET NEW BEDFORD, MA 02745-1756
123C-199 NS	MURPHY ST	CITY OF NEW BEDFORD, WATKINS CHARLES S. 131 WILLIAM ST. NEW BEDFORD, MA 02740
123C-202 NS	MURPHY ST	CITY OF NEW BEDFORD, MURPHY FRANCES ANNA 131 WILLIAM ST. NEW BEDFORD, MA 02740
123C-37 ES	MCNABOE ST	CITY OF NEW BEDFORD, WATKINS CHARLES S. 131 WILLIAM ST. NEW BEDFORD, MA 02740
123C-67 ES	SHAWMUT AVE	CITY OF NEW BEDFORD, DEPARTMENT OF PUBLIC INFRASTRUCTURE 1105 SHAWMUT AVENUE NEW BEDFORD, MA 02745
123C-69 ES	CONNELLY ST	CITY OF NEW BEDFORD, 131 WILLIAM ST. NEW BEDFORD, MA 02740
125B-271 NS	LANG ST	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740
125B-313 NS	AVIATION WAY	CITY OF NEW BEDFORD, AIRPORT COMMISSION 131 WILLIAM ST NEW BEDFORD, MA 02740

Dear Applicant,

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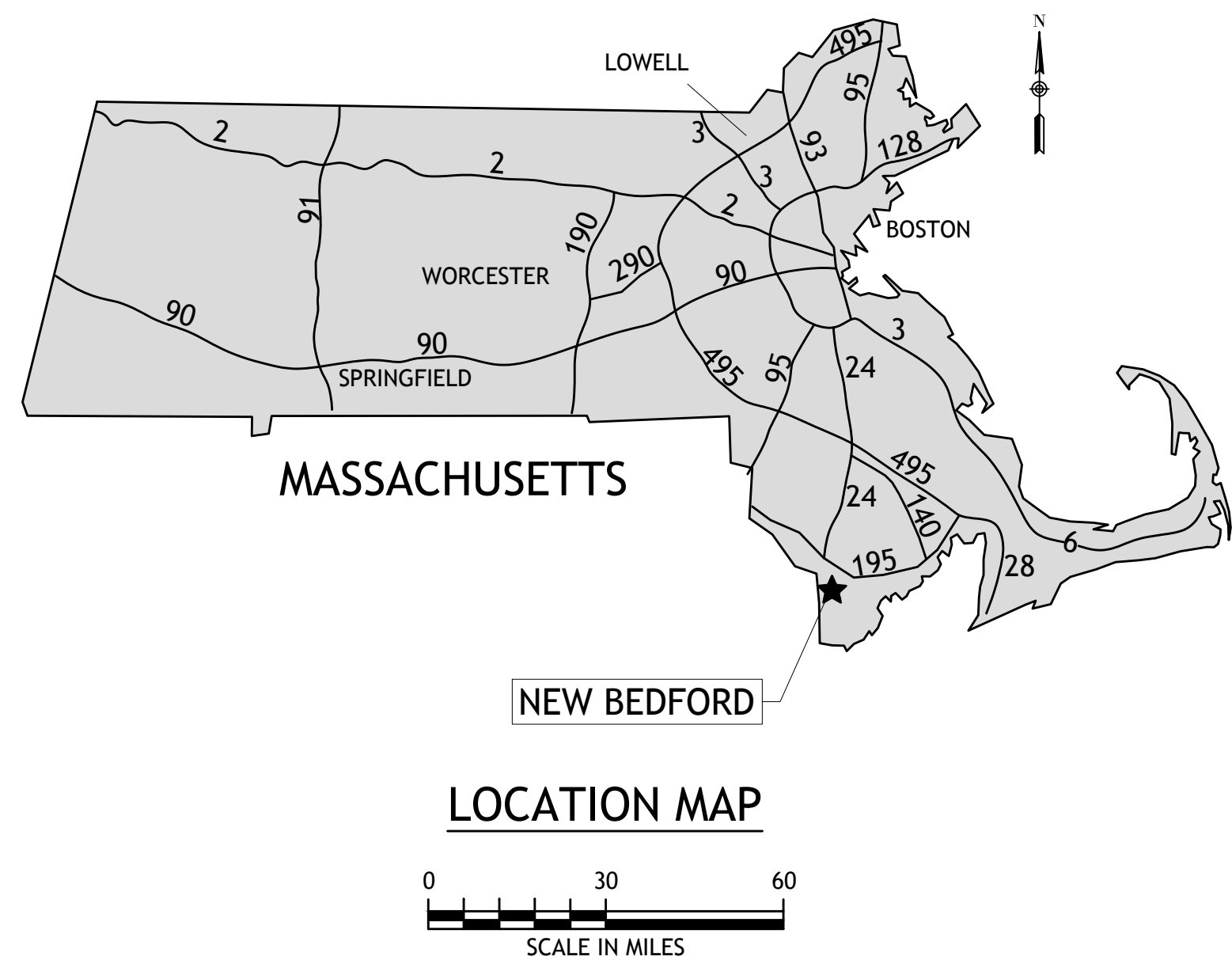
[illegible]

**Attachment F**

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Permit Drawings, prepared by Airport Solutions Group





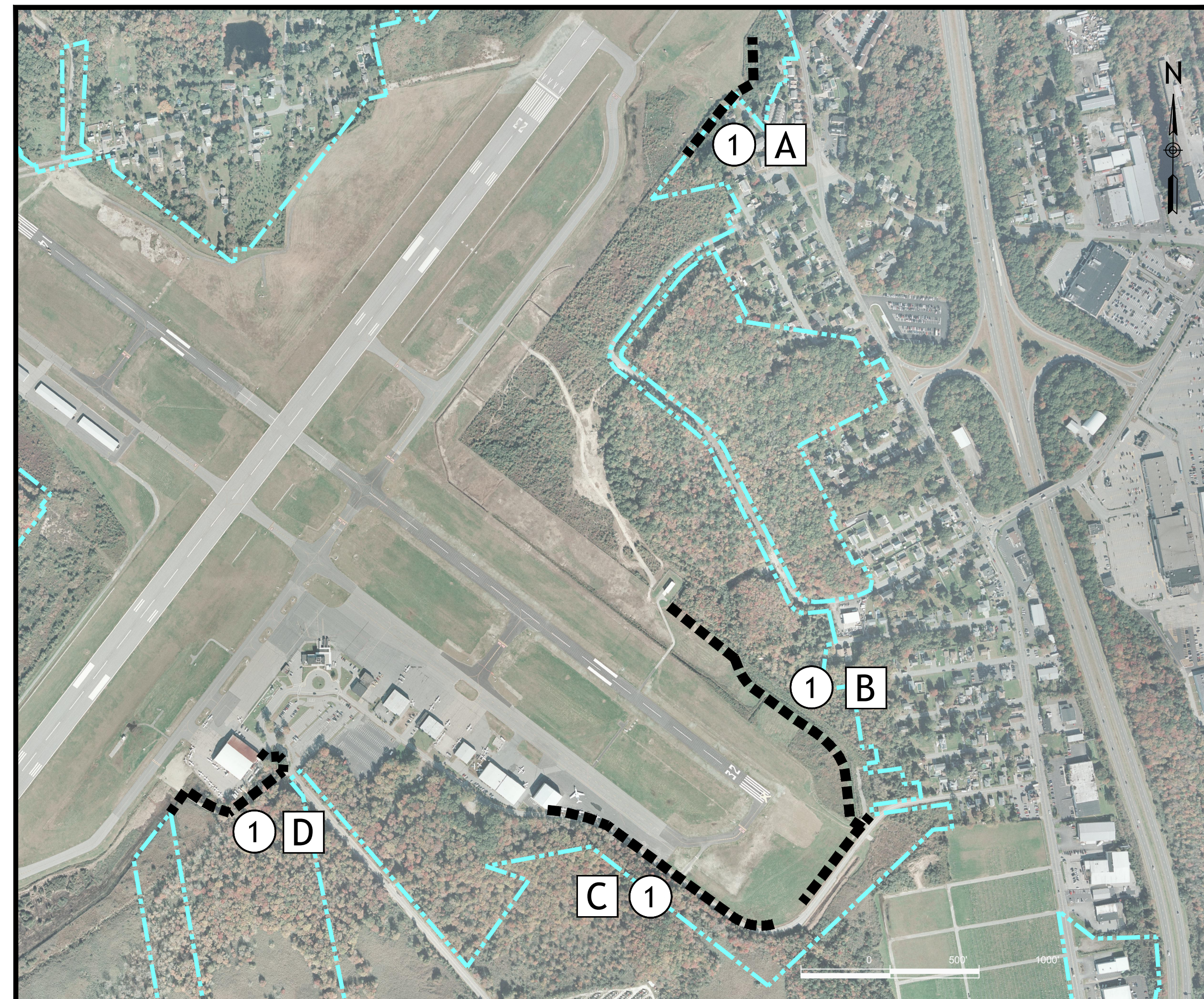
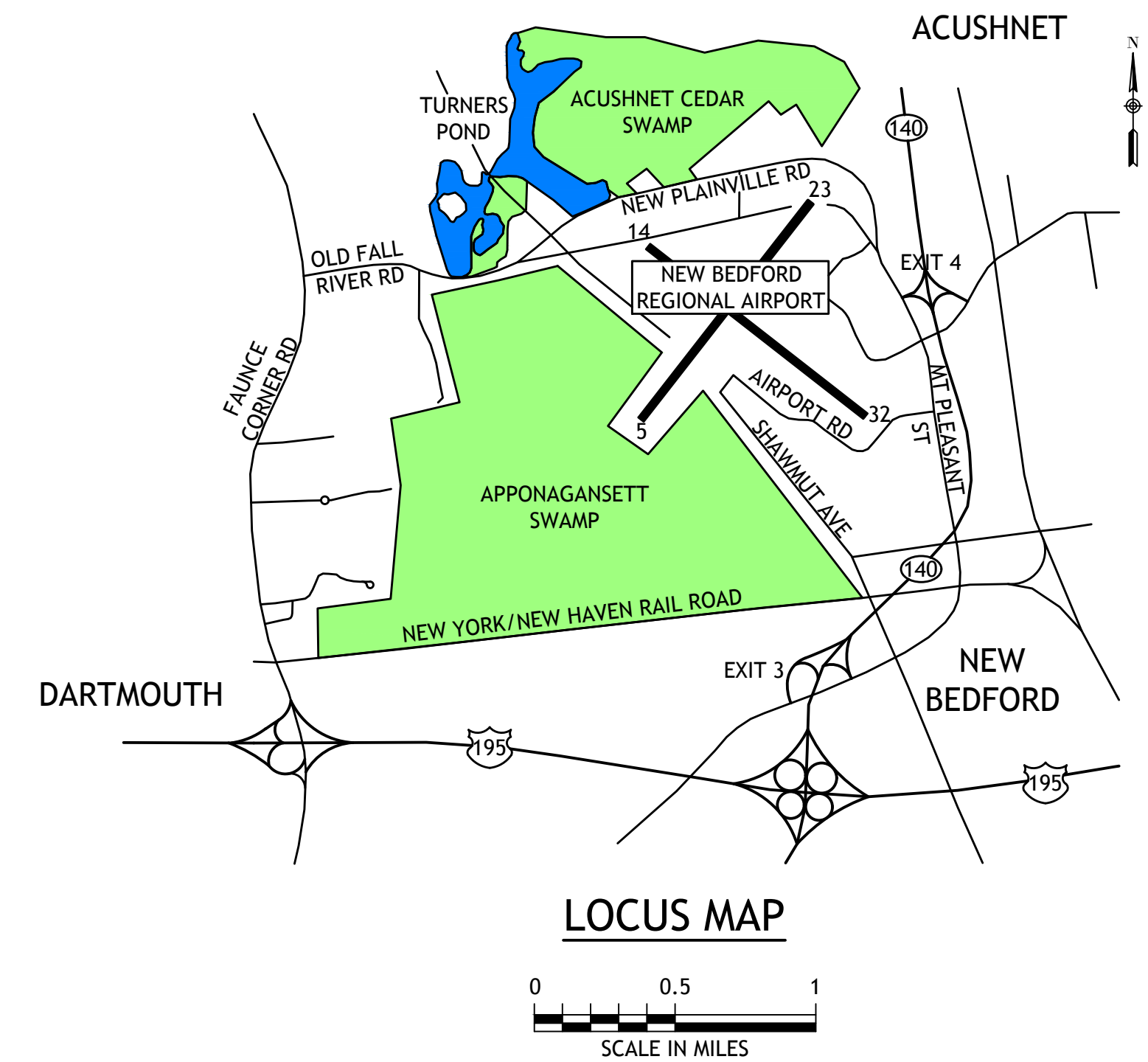
CONSTRUCTION PLANS FOR

# newbedford regional airport

NEW BEDFORD AIRPORT COMMISSION  
NEW BEDFORD REGIONAL AIRPORT  
1569 AIRPORT ROAD, NEW BEDFORD, MASSACHUSETTS 02746

## SECURITY/WILDLIFE FENCE PHASE I

OCTOBER 2019  
ASMP 2019-EWB-XX



### PROPOSED CONSTRUCTION

- ① - CONSTRUCT SECURITY/WILDLIFE FENCE ZONES A, B, C, AND D

NOI SUBMISSION

PREPARED BY

**AIRPORT SOLUTIONS GROUP**  
INNOVATIVE AIRPORT DEVELOPMENT SPECIALISTS  
AIRPORT CONSULTANTS • BURLINGTON, MASSACHUSETTS  
PHONE (781) 491-0083 FAX (781) 491-0360

THIS DRAWING AND THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE PROPRIETARY TO AIRPORT SOLUTIONS GROUP, LLC AND SHALL NOT BE ALTERED OR REUSED IN WHOLE OR PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF AIRPORT SOLUTIONS GROUP, LLC  
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DRAWING NO.

G1.1

1 OF 56



ABBREVIATIONS

AC	ADVISORY CIRCULAR	DIA.	DIAMETER	LB.	POUND	RD	ROAD
AC.	ACRE	DETL.	DETAIL	LF	LINEAR FEET	ROFA	RUNWAY OBJECT FREE AREA
ADA	AMERICAN WITH DISABILITIES ACT	DWG.	DRAWING	LT.	LEFT	RSA	RUNWAY SAFETY AREA
ADD. ALT.	ADDITIVE ALTERNATE	EA.	EACH	MASSDOT	MA DEPARTMENT OF TRANSPORTATION	RGS	RIGID GALVANIZED STEEL
ADMIN.	ADMINISTRATION	EHH	ELECTRIC HANDHOLE	MA	MASSACHUSETTS	RTE	ROUTE
AOA	AIRPORT OPERATIONS AREA	ELEC.	ELECTRIC	M.N.	MAGNETIC NORTH	RT.	RIGHT
APPROX.	APPROXIMATELY	ELEV.	ELEVATION	NDB	NON-DIRECTIONAL BEACON	ROFZ	RUNWAY OBJECT FREE ZONE
ASOS	AUTO. SURFACE OBSERVING SYSTEM	EOP	EDGE OF PAVEMENT	NOM.	NOMINAL	RPZ	RUNWAY PROTECTION ZONE
ATCT	AIR TRAFFIC CONTROL TOWER	EX.	EXISTING	NOTAM	NOTICE TO AIRMEN (AIRPERSON)	RW	RUNWAY
AUTO.	AUTOMATED	FAA	FEDERAL AVIATION ADMINISTRATION	N.T.S.	NOT TO SCALE	S	SLOPE
AVE	AVENUE	FED.	FEDERAL	O.C.	ON CENTER	SB	SEDIMENTATION BASIN
AWG	AMERICAN WIRE GAUGE	FT	FEET	PAPI	PRECISION APPROACH PATH INDICATOR	SCH.	SCHEDULE
BL	BASELINE	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	PCC	PORTLAND CEMENT CONCRETE	SPEC.	SPECIFICATION
BMP	BEST MANAGEMENT PRACTICE	GR	GROUND	PROP.	PROPOSED	STA.	STATION
CB	CATCH BASIN	GRND	GROUND	PSI	POUNDS PER SQUARE INCH	SY	SQUARE YARD
C/B	CIRCUIT BREAKER	HW	HEADWALL	PVC	POLYVINYL CHLORIDE	TOFA	TAXIWAY OBJECT FREE AREA
CKT	CIRCUIT	I.D.	INNER DIAMETER	PVMT	PAVEMENT	TSA	TAXIWAY SAFETY AREA
CL	CENTERLINE	ILS	INSTRUMENT LANDING SYSTEM	R	RADIUS	TYP.	TYPICAL
CLF	CHAIN LINK FENCE	IN.	INCH	RCP	REINFORCED CONCRETE PIPE	TW	TAXIWAY
CONC.	CONCRETE	INV.	INVERT	REIL	RUNWAY END IDENTIFIER LIGHT	VAR.	VARIABLE
Cu	COPPER	JC	JUNCTION CAN	REQD	REQUIRED		
		LB	LEACHING BASIN				

INDEX TO DRAWINGS		
SHEET NO.	DWG. No.	SHEET TITLE
1	G1.1	COVER SHEET
2	G1.2	INDEX TO DRAWINGS, ABBREVIATIONS AND LEGEND
3	G1.3	GENERAL NOTES
4	G1.4	GENERAL PLAN
5	C1.1	FENCE PLAN (1 OF 11)
6	C1.2	FENCE PLAN (2 OF 11)
7	C1.3	FENCE PLAN (3 OF 11)
8	C1.4	FENCE PLAN (4 OF 11)
9	C1.5	FENCE PLAN (5 OF 11)
10	C1.6	FENCE PLAN (6 OF 11)
11	C1.7	FENCE PLAN (7 OF 11)
12	C1.8	FENCE PLAN (8 OF 11)
13	C1.9	FENCE PLAN (9 OF 11)
14	C1.10	FENCE PLAN (10 OF 11)
15	C1.11	FENCE PLAN (11 OF 11)
16	C2.1	FENCE DETAILS (1 OF 2)
17	C2.1	FENCE DETAILS (2 OF 2)

LEGEND

	AIRPORT PROPERTY BOUNDARY
	NON-AIRPORT PROPERTY LINE
	AVIGATION EASEMENT
	EXISTING MAJOR CONTOUR
	EXISTING CHAIN-LINK FENCING
	PROPOSED CHAIN-LINK FENCING
	PROPOSED DOUBLE SWING GATE
	SAFETY MATTING
	BORDERING VEGETATIVE WETLANDS LIMIT
	OPEN WATER
	25' BUFFER ZONE
	100' BUFFER ZONE
	SURVEY CONTROL POINT
	SURVEY BENCHMARK
	SOIL BORING
	WETLAND FLAGGING
	CONTRACTOR GRAVEL HAUL ROAD
	RUNWAY SAFETY AREA
	RUNWAY OBJECT FREE AREA
	TAXIWAY SAFETY AREA
	TAXIWAY OBJECT FREE AREA

ASG

AIRPORT SOLUTIONS GROUP, LLC  
100 WEST STREET, SUITE 200  
BOSTON, MA 02108  
PHONE (617) 491-0088 FAX (617) 491-0086  
WWW.ASG-ENGINEERS.COM  
THIS DRAWING AND THE INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF AIRPORT SOLUTIONS GROUP, LLC. NO PART OF THIS DRAWING OR THE INFORMATION CONTAINED HEREIN MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE EXPRESS WRITTEN PERMISSION OF AIRPORT SOLUTIONS GROUP, LLC.

PROJECT		OWNER	
SECURITY / WILDLIFE FENCE PHASE 1		NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT 1569 AIRPORT ROAD, NEW BEDFORD, MA 02740	
PROJECT NO.	103-048	DESIGNED BY	TAV
DRAWN BY	TAV	CHECKED BY	SJR
DATE	October 2019	DRAWING SCALE	N.T.S.
SHEET TITLE		DRAWING NO.	
INDEX TO DRAWINGS, ABBREVIATIONS AND LEGEND		G1.2	
GRAPHIC SCALE		2 OF 17	
N.T.S.		NOI SUBMISSION	



AIRPORT MANAGER

- ## AIRPORT SECURITY

- AIR OPERATIONS AREA (AOA)

17. ALL OF THE CONTRACTOR'S EQUIPMENT AND VEHICLES SHALL BE EQUIPPED WITH A 3' X 3' CHECKERED ORANGE AND WHITE FLAG WITH COMPANY IDENTIFICATION PLAINLY VISIBLE ON BOTH SIDES OF THE VEHICLE. ALL OF THE CONTRACTOR'S ESCORT VEHICLES SHALL BE EQUIPPED WITH BOTH THE ORANGE AND WHITE FLAG AND AMBER FLASHING/ROTATING BEACONS.

## DEBRIS AND DUST CONTROL

18. THE CONTRACTOR SHALL STRICTLY CONTROL DEBRIS AND LITTER AT AIRPORT WORK SITES. MUD, STONES OR OTHER DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM ALL PAVEMENTS TO FACILITATE DAILY AIRCRAFT OPERATIONS AND A CLEAN ENVIRONMENT. DUST CONTROL MEASURES SHALL BE TAKEN AS NECESSARY BY THE CONTRACTOR TO ENSURE THAT NO DUST IS ALLOWED TO DRIFT INTO THE AOA, INTO LOCATIONS WHERE AIRCRAFT ARE PARKED AT ANY TIME, OR SURROUNDING RESIDENCES. THE CONTRACTOR SHALL ENSURE THAT ALL PUBLIC ROADS ARE CONTINUOUSLY MAINTAINED FREE OF MUD AND DEBRIS THAT MAY RESULT FROM HIS OPERATIONS. DEBRIS AND DUST CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL PROVIDE A MANNED VAC SWEEPER DURING ALL TIMES WHEN ACTIVE AOA PAVEMENTS ARE CROSSED AT NO ADDITIONAL COST TO THE OWNER.

### DISPOSAL OF SURPLUS AND UNSUITABLE MATERIALS

19. NO SEPARATE MEASUREMENT FOR PAYMENT SHALL BE MADE FOR DISPOSAL OF MATERIAL BUT RATHER THE DISPOSAL SHALL BE INCIDENTAL TO THE ITEM THAT GENERATES THE MATERIAL TO BE DISPOSED OF.

### CONTRACTOR'S STAGING AREAS

20. THE CONTRACTOR SHALL USE THE AREAS SHOWN ON THE PLANS FOR HIS/HER STAGING AREAS. NO OTHER AREAS ARE APPROVED HEREIN WITHOUT THE EXPLICIT CONSENT OF THE AIRPORT MANAGER AND THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL IMPROVEMENT AND RESTORATION OF THE DESIGNATED AREAS SUCH AS GRUBBING, GRADING, AND CONSTRUCTION OF STABILIZED ACCESS ROADS, THAT IS NECESSARY FOR THE UTILIZATION OF THE AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY TEMPORARY ACCESS PERMITS AND ASSOCIATED FEES FOR ACCESS TO THE ADJACENT ROAD NETWORK. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK. ALL WORK NECESSARY TO USE THE STAGING AREAS SHALL BE DEEMED INCIDENTAL TO THE OVERALL PROJECT.

## UNDERGROUND UTILITIES AND CABLES

21. THE CONTRACTOR SHALL REPAIR, AT HIS/HER OWN EXPENSE, ANY UNDERGROUND OR OVERHEAD CABLES OR UTILITIES DAMAGED BY HIS/HER OPERATIONS AT NO ADDITIONAL COST TO THE AIRPORT INCLUDING ANY DAMAGE DONE BY DRIVING HIS/HER EQUIPMENT OVER EXISTING UNDERGROUND CABLES OR UTILITIES. THE METHOD OF REPAIR/REPLACEMENT OF FAA CABLES SHALL BE APPROVED BY THE FAA PRIOR TO PERFORMING THE REPAIR/REPLACEMENT.

## PERMITS

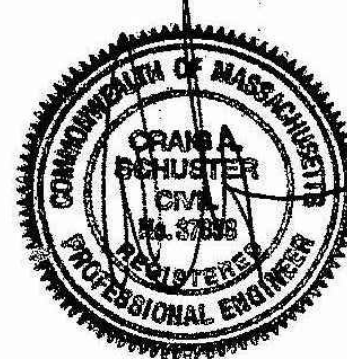
22. THE CONTRACTOR SHALL REFER TO, FULLY UNDERSTAND, AND PROVIDE ACKNOWLEDGEMENT OF THE PERMITS IDENTIFIED IN THE ACCOMPANYING SPECIFICATIONS.
23. THE VARIANCE ORDER OF CONDITIONS (APPENDIX D OF THE SPECIFICATIONS) ONLY APPLIES TO WORK AREA I WHEN VEGETATION CLEARING IS WITHIN A WETLAND OR 100 FOOT WETLAND BUFFER ZONE.

## WETLANDS

24. DISTURBANCE OF WETLANDS IS A POTENTIAL VIOLATION OF FEDERAL, STATE AND LOCAL REGULATIONS. THE LIMITS OF AUTHORIZED WETLAND DISTURBANCE, REQUIREMENTS OF THE DISTURBANCE, AND PROCEDURES TO RESTORE THE WETLAND DISTURBANCE ARE AS DESCRIBED WITHIN THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO COMPLY WITH THESE REQUIREMENTS. THE CONTRACTOR SHALL PAY ALL FINES ASSESSED AGAINST THE AIRPORT FOR UNAUTHORIZED WETLAND DISTURBANCE AND RELATED EXPENSES DUE TO VIOLATIONS CAUSED BY THE CONTRACTOR AND HIS/HER PERSONNEL, SUBCONTRACTORS AND VENDORS.
25. THIS PROJECT IS PERMITTED UNDER THE PERMITS IDENTIFIED IN THE ACCOMPANYING SPECIFICATIONS. THE CONTRACTOR IS REQUIRED TO UNDERSTAND AND COMPLY WITH THE REFERENCED PERMITS. FAILURE TO COMPLY WITH THE REFERENCED PERMITS MAY LEAD TO FINES AND/OR TERMINATION OF CONTRACT.

**DEMOLITION NOTES:**

26. ALL DEMOLISHED ITEMS, UNLESS OTHERWISE DIRECTED BY THE OWNER, SHALL BE LEGALLY DISPOSED OF OFF OF THE AIRPORT PROPERTY. THE OWNER SHALL RESERVE THE RIGHT TO KEEP ANY ITEM PROPOSED TO BE DEMOLISHED. IF THE OWNER REQUESTS TO KEEP THE ITEM, THE CONTRACTOR SHALL TAKE CARE IN THE REMOVAL OF THE ITEM AND DELIVER THE ITEM TO A LOCATION ON THE AIRPORT PROPERTY AS DIRECTED BY THE ENGINEER.
27. THE CONTRACTOR MUST INSTALL TEMPORARY EROSION CONTROL MEASURES, PER WORK AREAS, DEPICTED ON THE CONSTRUCTION SAFETY AND PHASING PLANS AND THE GRADING AND EROSION CONTROL PLANS OR AS DIRECTED BY THE ENGINEER PRIOR TO THE START OF ANY DEMOLITION. FOR EROSION CONTROL PLANS AND DETAILS.
28. THERE MAY BE EXISTING CABLES NOT SHOWN ON THESE DRAWINGS THAT ARE EITHER ACTIVE OR ABANDONED IN PLACE. IF ENCOUNTERED, THE CONTRACTOR SHALL IDENTIFY THESE CABLES AND VERIFY THEIR PRESENT CONDITION, REPAIR IF DAMAGED BY CONSTRUCTION AT THE CONTRACTOR'S EXPENSE, AND RECORD ALL PERTINENT INFORMATION ON THE AS-BUILT DRAWINGS.
29. THE CONTRACTOR SHALL PROTECT ALL EXISTING AND/OR PROPOSED CATCH BASIN INLETS FROM SEDIMENT BY INSTALLING CATCH BASIN INLETS PRIOR TO CONSTRUCTION. DURING EXISTING STRUCTURE OR PIPE DEMOLITION, THE CONTRACTOR SHALL EMPLOY MEASURES TO ENSURE PIPES AND STRUCTURES REMAIN FREE OF SEDIMENT.

[illegible]

PROJECT	SECURITY / WILDLIFE FENCE PHASE 1
OWNER	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT 1588 AIRPORT ROAD, NEW BEDFORD, MA 02746

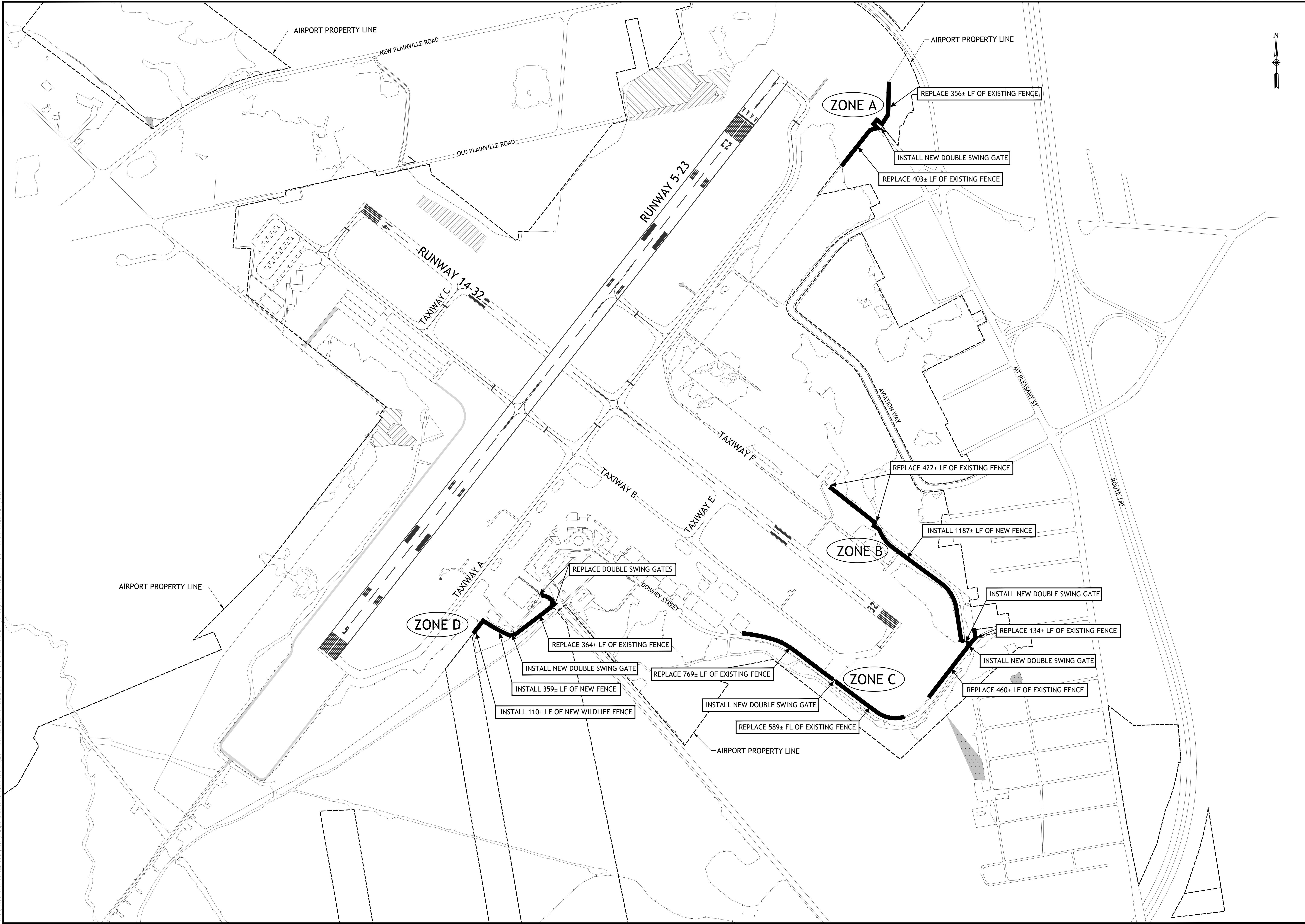
PROJECT NO.	103-048
DESIGNED BY	TAV
DRAWN BY	TAV
CHECKED BY	SJR
DATE	October 2019
DRAWING SCALE	N.T.S.

DRAWING NO.

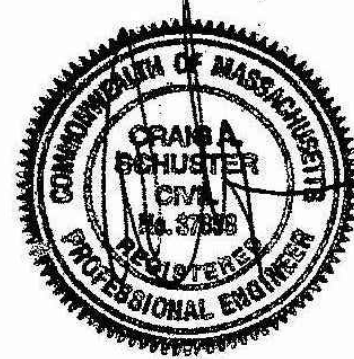
# G1.3

3 OF 17





10/22/2019 10:01:01 AM C:\Users\jgibson\OneDrive\Documents\New Bedford Regional Airport\General Plan\General Plan.dwg User: jgibson



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PROJECT	OWNER
SECURITY / WILDLIFE FENCE PHASE 1	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT 1569 AIRPORT ROAD, NEW BEDFORD, MA 02740

PROJECT NO.	103-048
DESIGNED BY	TAV
DRAWN BY	TAV
CHECKED BY	SJR
DATE	October 2019
DRAWING SCALE	1" = 300'

SHEET TITLE

GENERAL PLAN

GRAPHIC SCALE

0' 150' 300' 600'

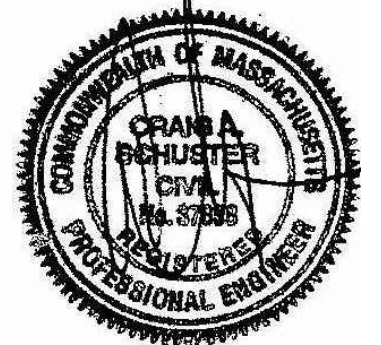
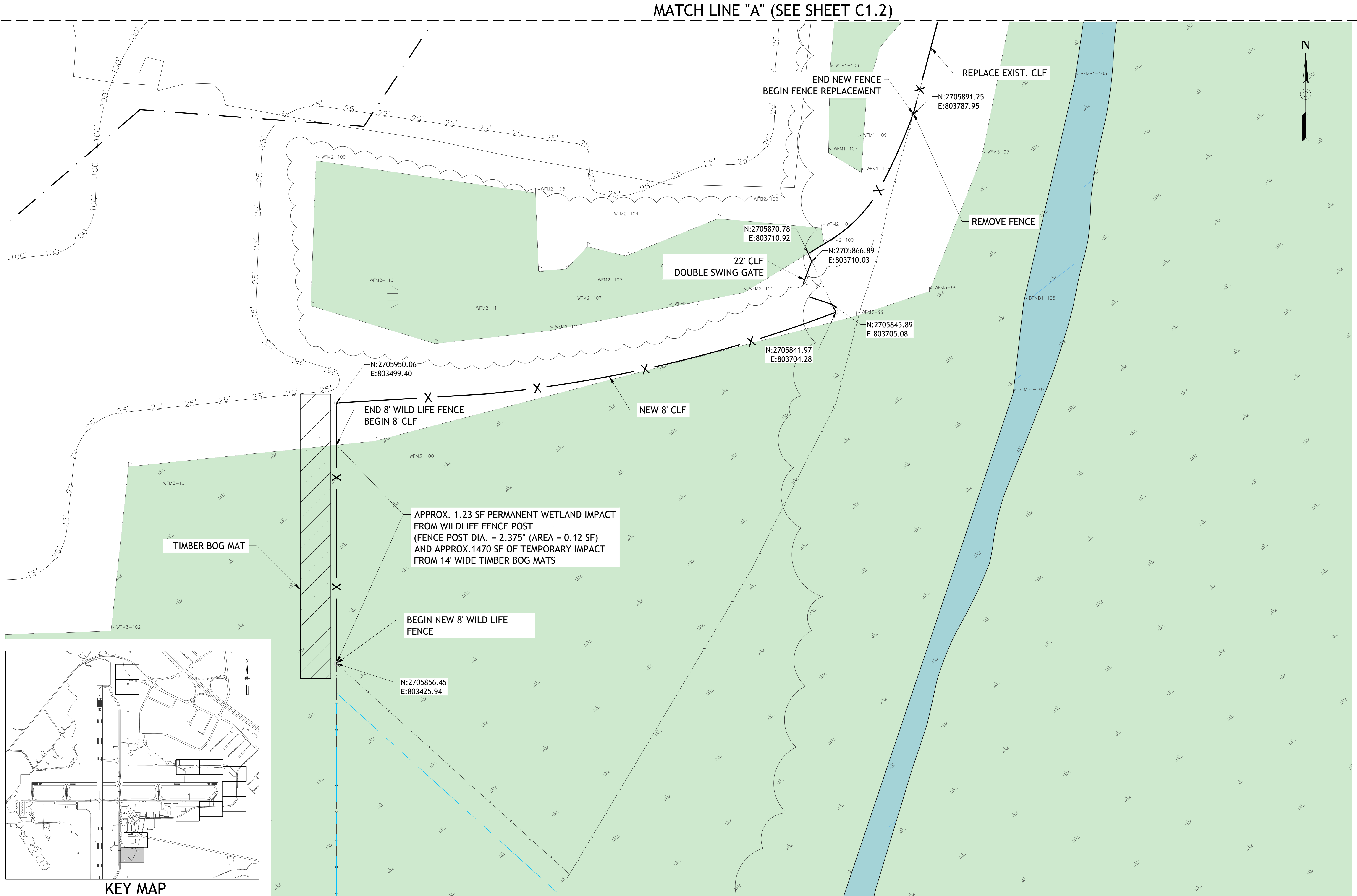
DRAWING NO.

G1.4

4 OF 17



01/12/2019 8:42:52 AM \\nas01\projects\190000\190000.dwg User: jason.miller Plot: 190000.dwg Plot Date: 01/12/2019 8:42:52 AM



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PROJECT	OWNER
SECURITY / WILDLIFE FENCE PHASE 1	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT 100 BEDFORD ROAD, NEW BEDFORD, MA 02740

PROJECT NO.	103-048
DESIGNED BY	TAV
DRAWN BY	TAV
CHECKED BY	SJR
DATE	October 2019
DRAWING SCALE	1" = 20'

SHEET TITLE	FENCE PLAN (1 OF 11)
GRAPHIC SCALE	0' 10' 20' 40'

DRAWING NO.	C1.1
5 OF 17	





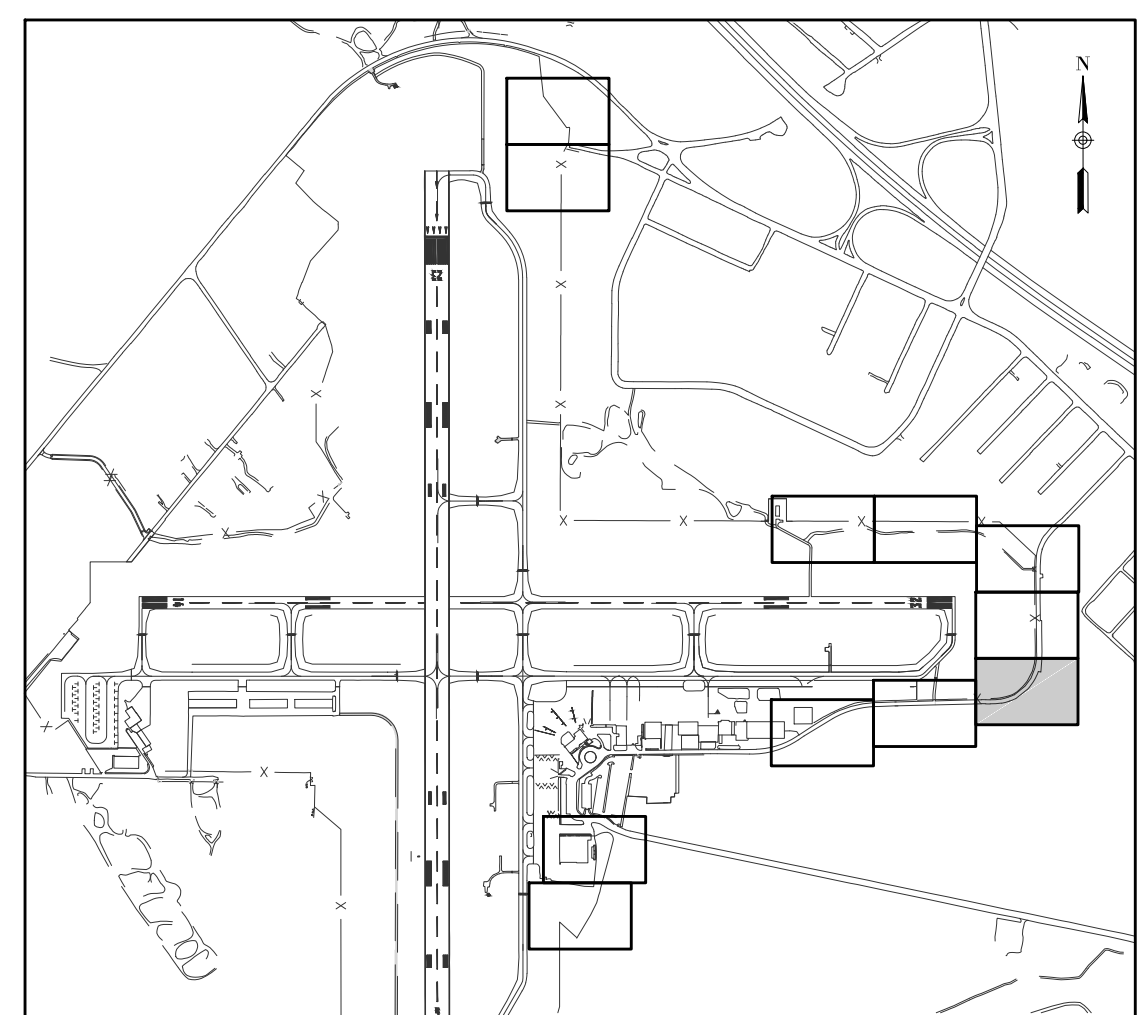




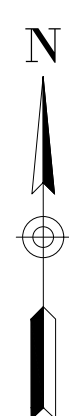




MATCH LINE "C" (SEE SHEET C1.4)



KEY MAP  
N.T.S.



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[illegible]

PROJECT	OWNER
SECURITY / WILDLIFE FENCE PHASE 1	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT 1550 NEW BEDFORD ROAD, NEW BEDFORD, MA 02746

PROJECT NO.	103-048
DESIGNED BY	TAV
DRAWN BY	TAV
CHECKED BY	SJR
DATE	October 2019
DRAWING SCALE	1" = 20'

SHEET TITLE

# FENCE PLAN

## (5 OF 11)

GRAPHIC SCALE

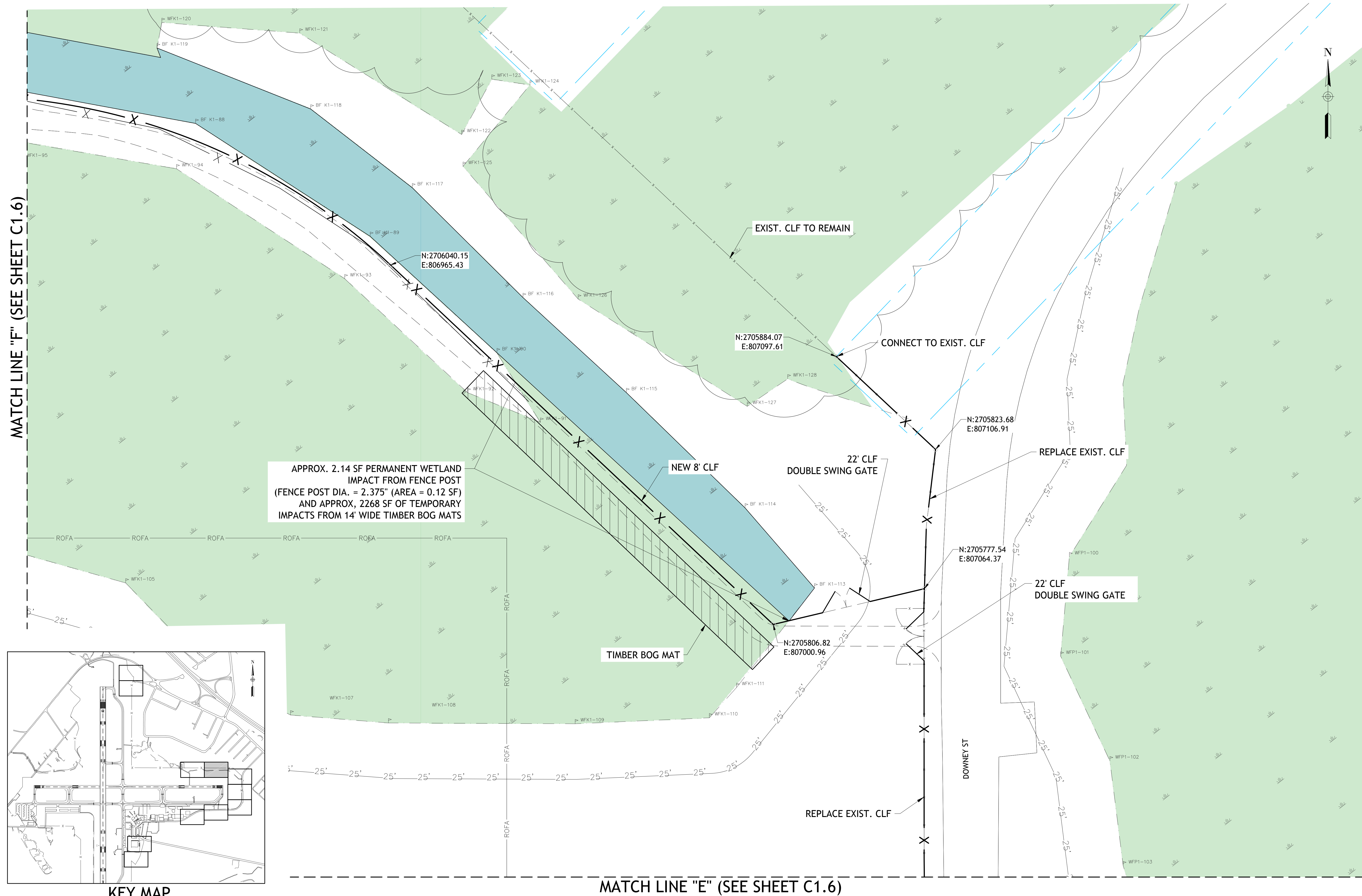
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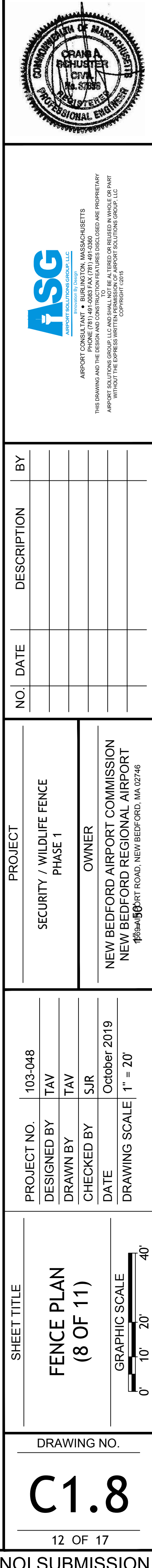
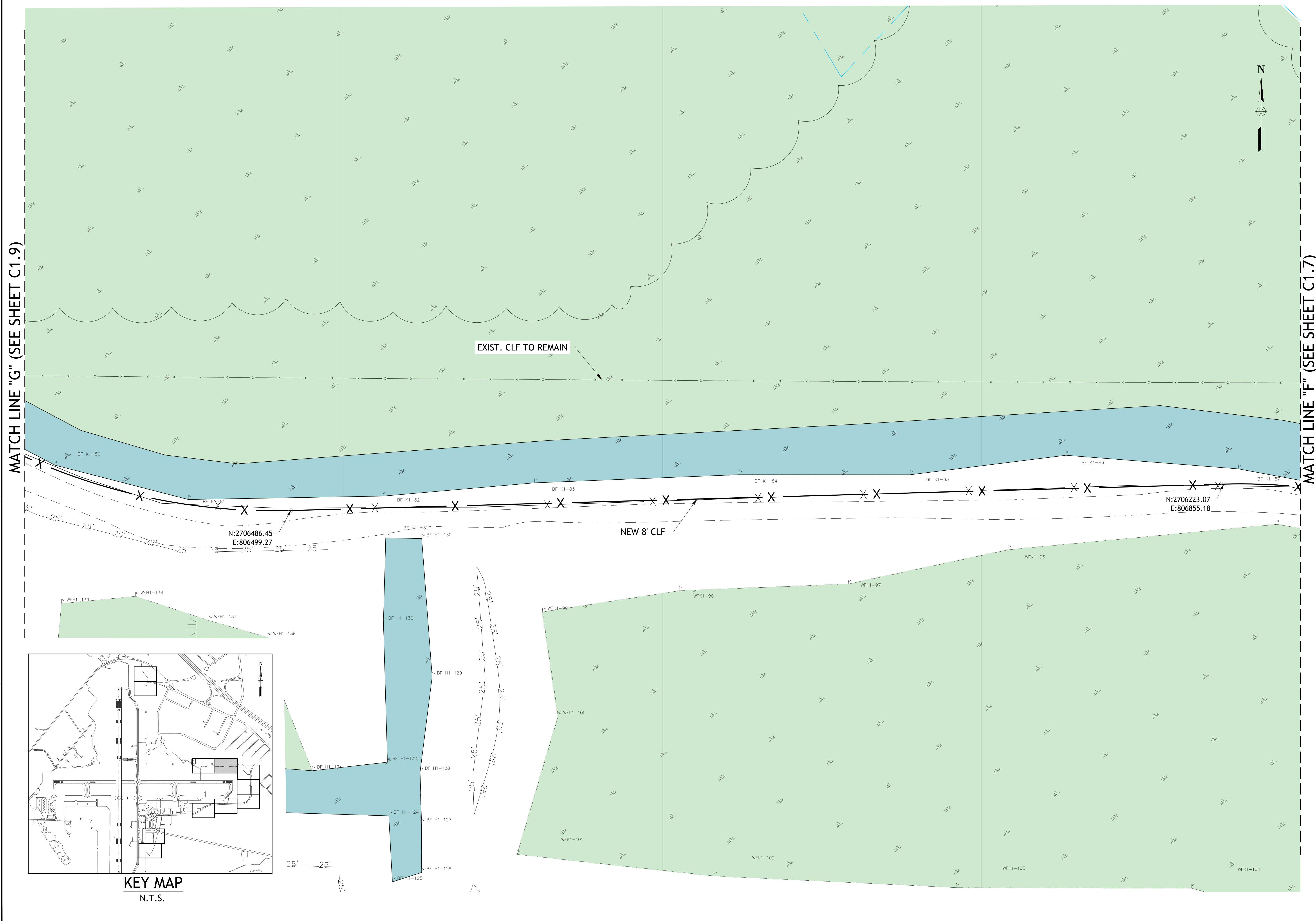
9 OF 1





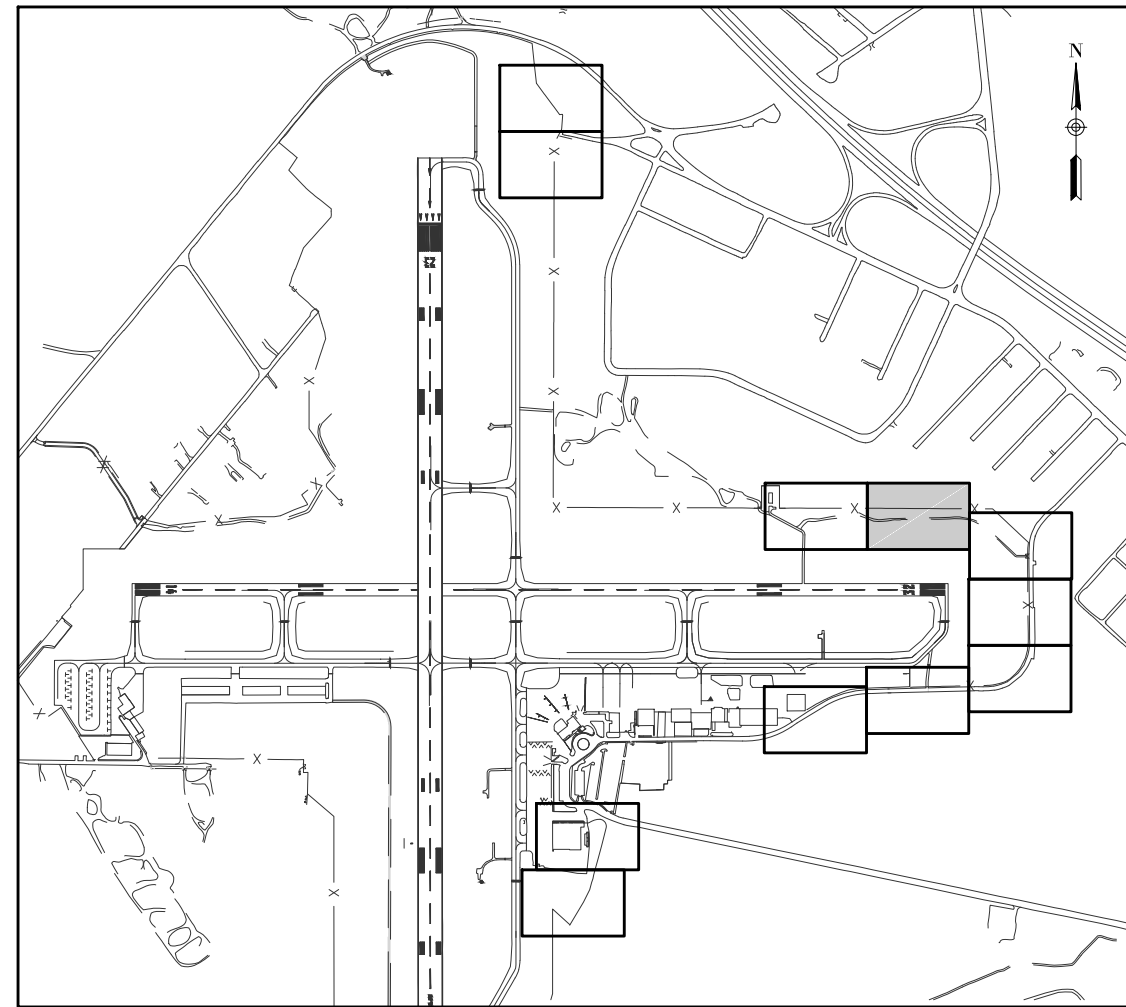
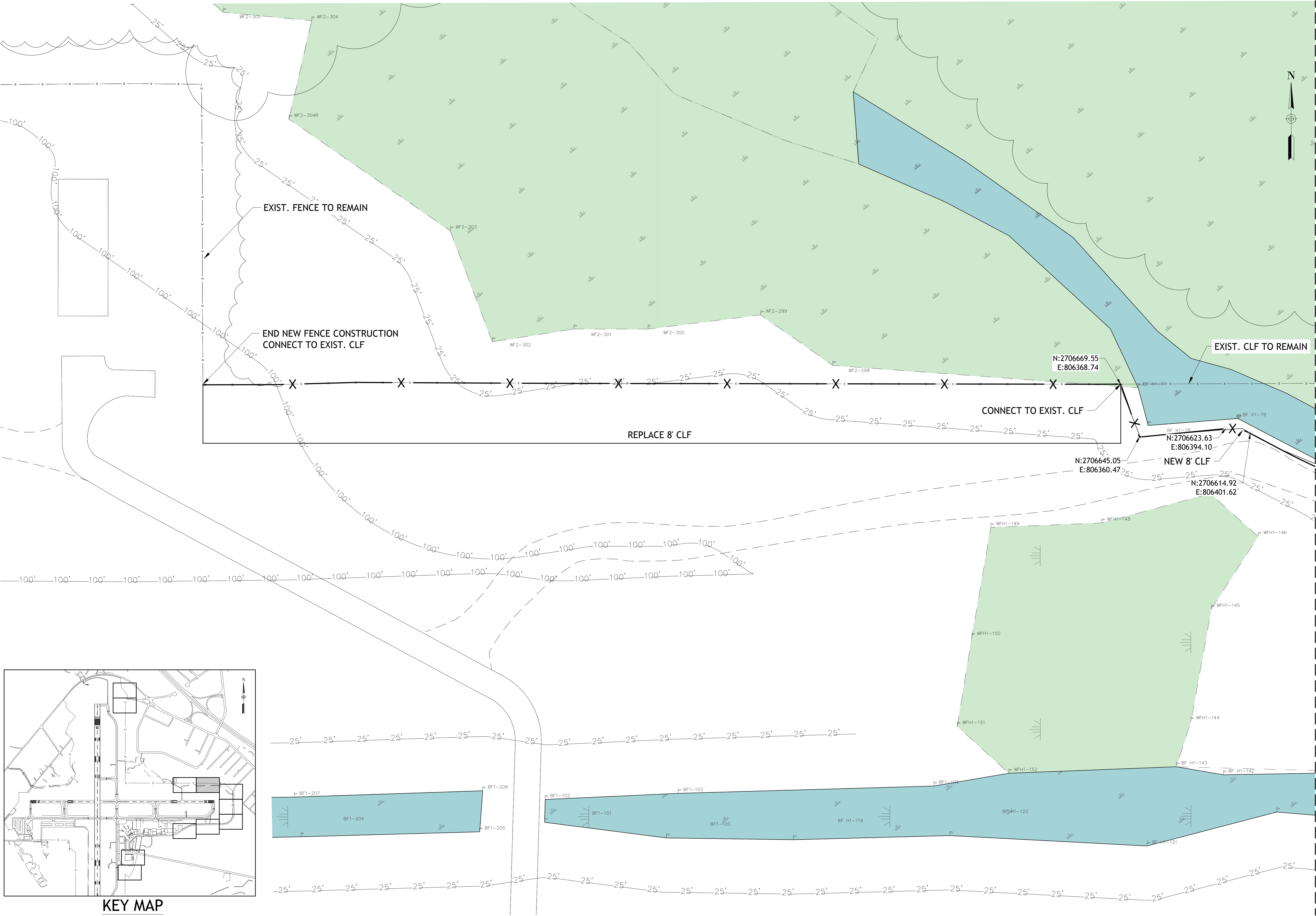








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MATCH LINE "G" (SEE SHEET C1.9)



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NO.	DATE	DESCRIPTION	BY

PROJECT	OWNER
SECURITY / WILDLIFE FENCE PHASE 1	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT 100 BEDFORD ROAD, NEW BEDFORD, MA 02740

PROJECT NO.	103-048
DESIGNED BY	TAV
DRAWN BY	TAV
CHECKED BY	SJR
DATE	October 2019
DRAWING SCALE	1" = 20'

SHEET TITLE	GRAPHIC SCALE
FENCE PLAN (9 OF 11)	0' 10' 20' 40'

DRAWING NO.
C1.9
13 OF 17

NOI SUBMISSION

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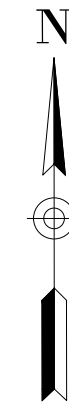
- REMOVE EXIST. CLF

— CONNECT NEW 8' CLF TO  
EXIST. CLF

N:2709279.63  
E:806124.13

EXIST. CLF TO REMAIN

N:2709291.45  
E:806119.14



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PROJECT	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT 1000 BEDFORD ROAD, NEW BEDFORD, MA 02746
SECURITY / WILDLIFE FENCE PHASE 1	OWNER

PROJECT NO.	103-048
DESIGNED BY	TAV
DRAWN BY	TAV
CHECKED BY	SJR
DATE	October, 2019
DRAWING SCALE	1" = 20'

SHEET TITLE

# FENCE PLAN

## (10 OF 11)



GRAPHIC SCALE

0' 10' 20' 40'

DRAWING NO.

**C1.10**

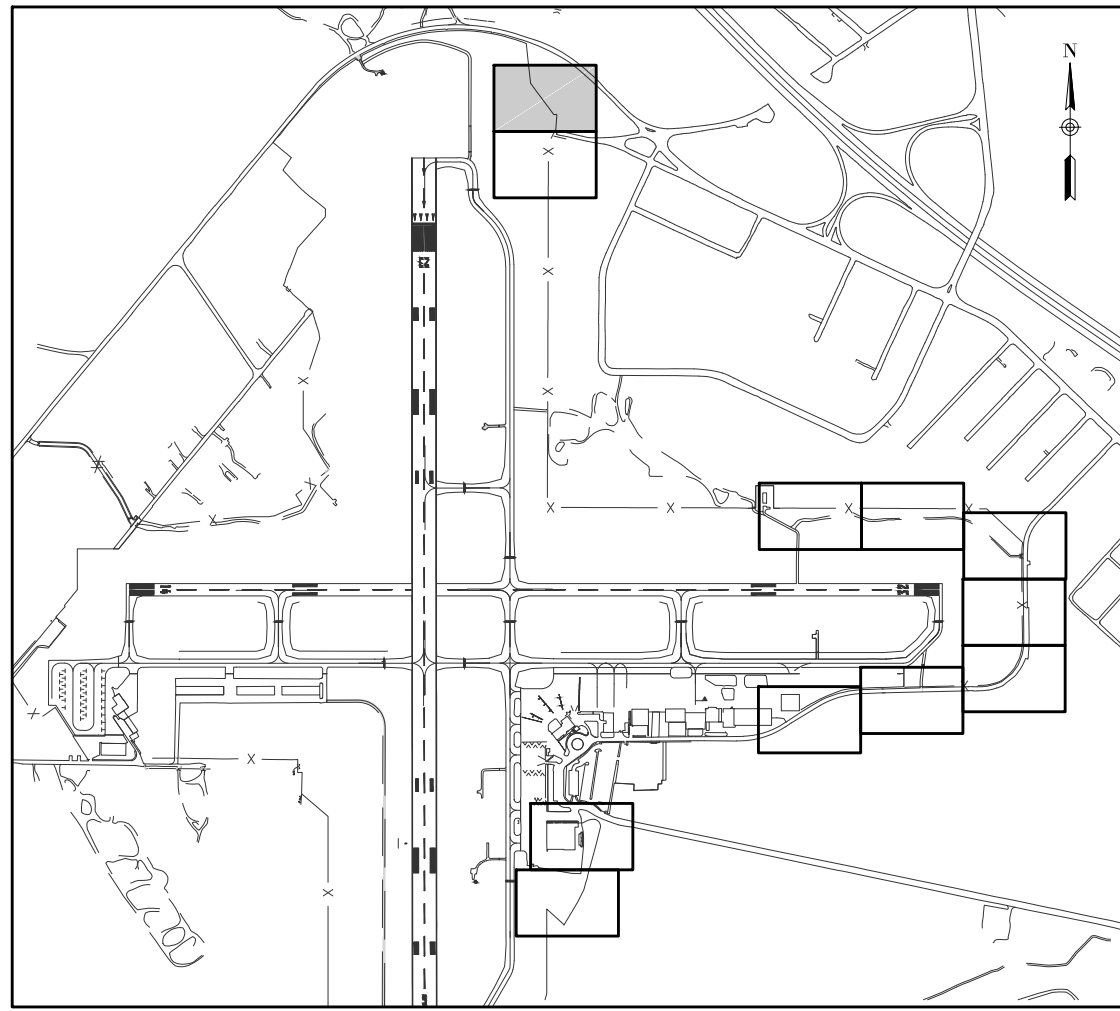
14 OF 17

## NOI SUBMISSION

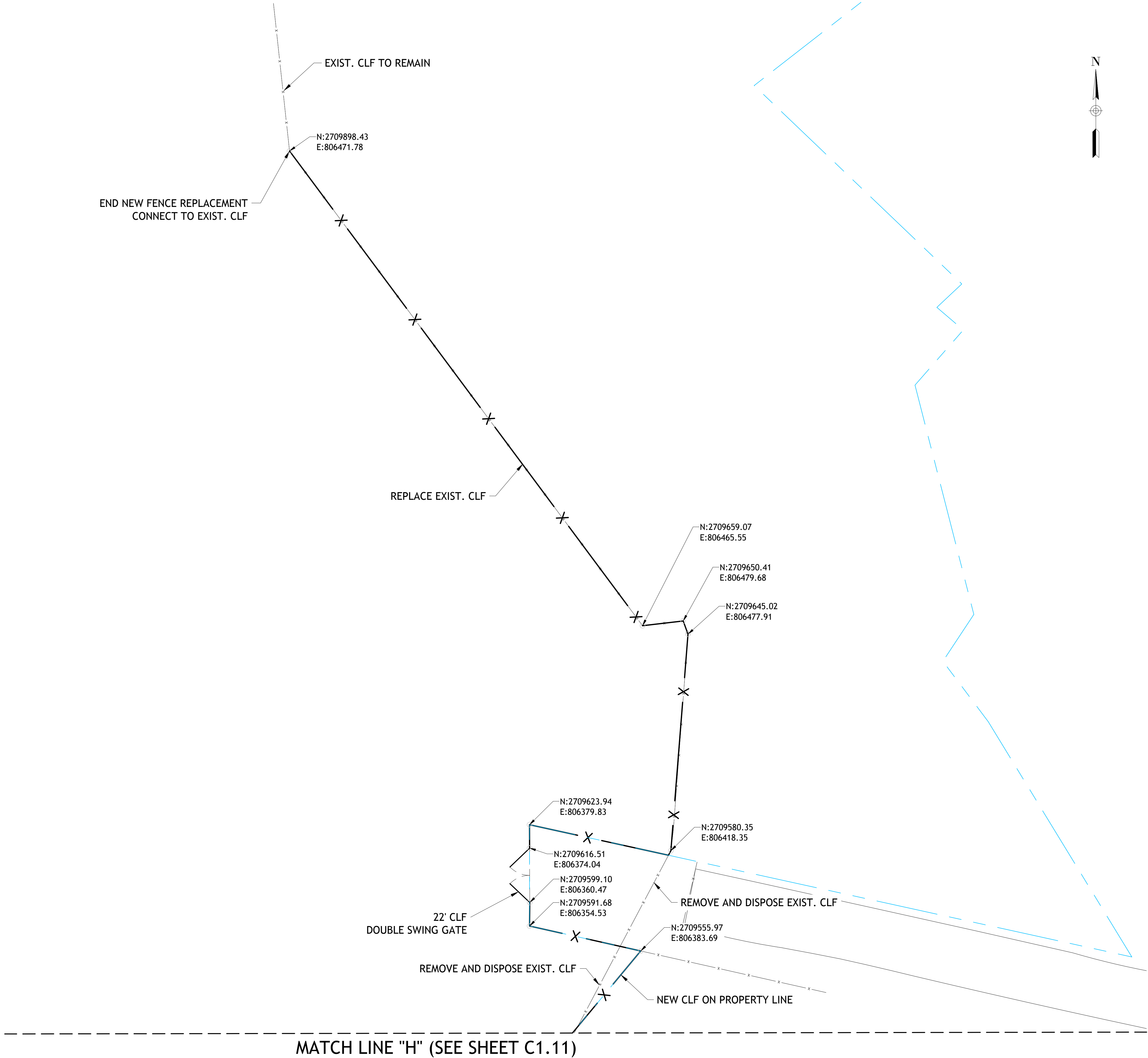
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10/17/2019 8:42:52 AM \\nas01\projects\190000\190000.dwg User: jason.miller Plot Date: 10/17/2019 Plot Time: 8:42:52 AM Plot Scale: 1" = 20' Plot Sheet: 1 of 1



KEY MAP  
N.T.S.



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C1.11 OF 17

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PROJECT NO.	103-048
DESIGNED BY	TAV
DRAWN BY	TAV
CHECKED BY	SJR
DATE	October 2019
DRAWING SCALE	1" = 20'

SHEET TITLE
FENCE PLAN (11 OF 11)

DRAWING NO.
C1.11

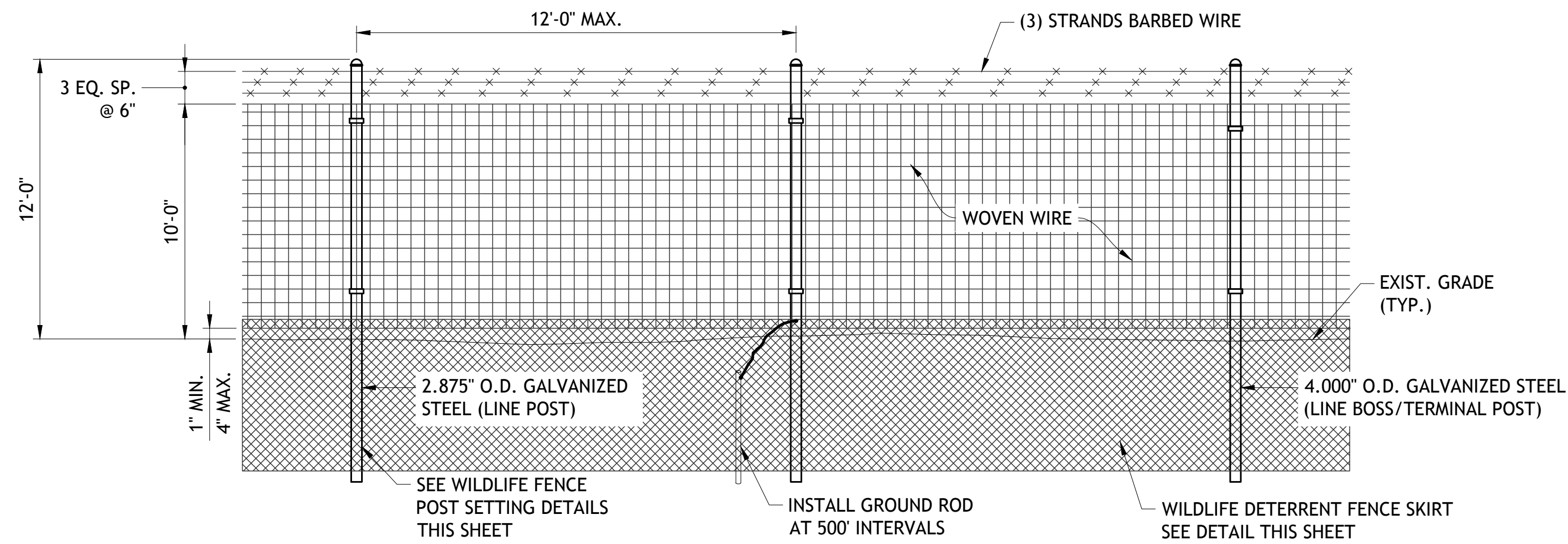
15 OF 17

NOI SUBMISSION





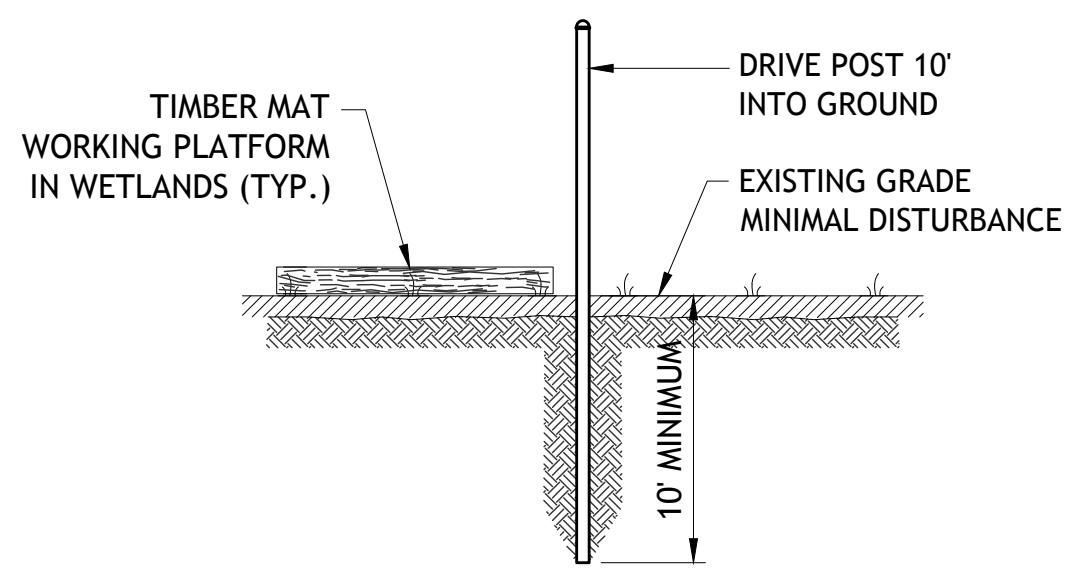




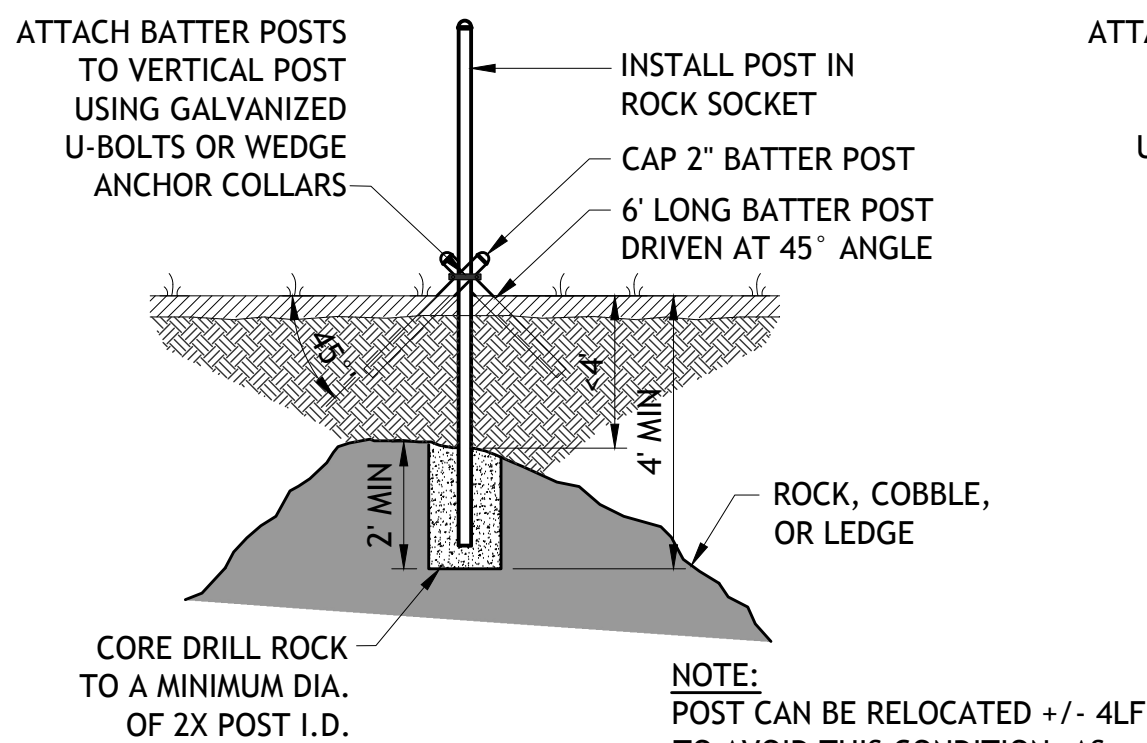
- WILDLIFE LINE POST FENCE NOTES:**
1. SET LINE POSTS USING 12' MAXIMUM SPACING. POST SPACING SHOULD BE DETERMINED BY TERRAIN, TURNS IN FENCE LINE, AND DRASTIC CHANGES IN ELEVATION.
  2. THE RATIO OF LINE POSTS TO LINE BOSSES SHOULD NOT EXCEED A 4 TO 1 RATIO (1 LINE BOSS PER 100 TO 120 LF OF FENCE. 2.875" GALVANIZED TUBING SHALL BE USED FOR ALL LINE POSTS).
  3. USE 20' LINE SPACING AS A GUIDELINE, ALTHOUGH IN ROUGH TERRAIN CLOSER POST SPACING WILL BE REQUIRED OR AS DIRECTED BY THE ENGINEER. A VARIATION IN DISTANCE SHALL BE NO MORE THAN +/- 4 LF. 4.000" GALVANIZED TERMINAL POSTS SHALL BE PLACED ON ALL HIPS AND IN THE BOTTOM OF ALL DIPS.

**WILDLIFE FENCE AND INTERMEDIATE POST ASSEMBLY DETAILS**

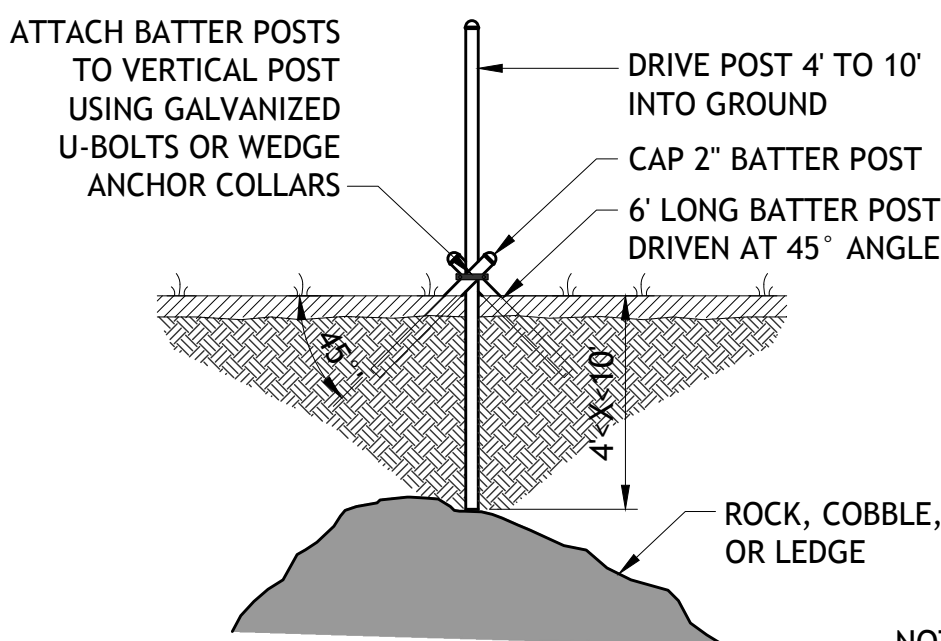
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**NO REFUSAL**



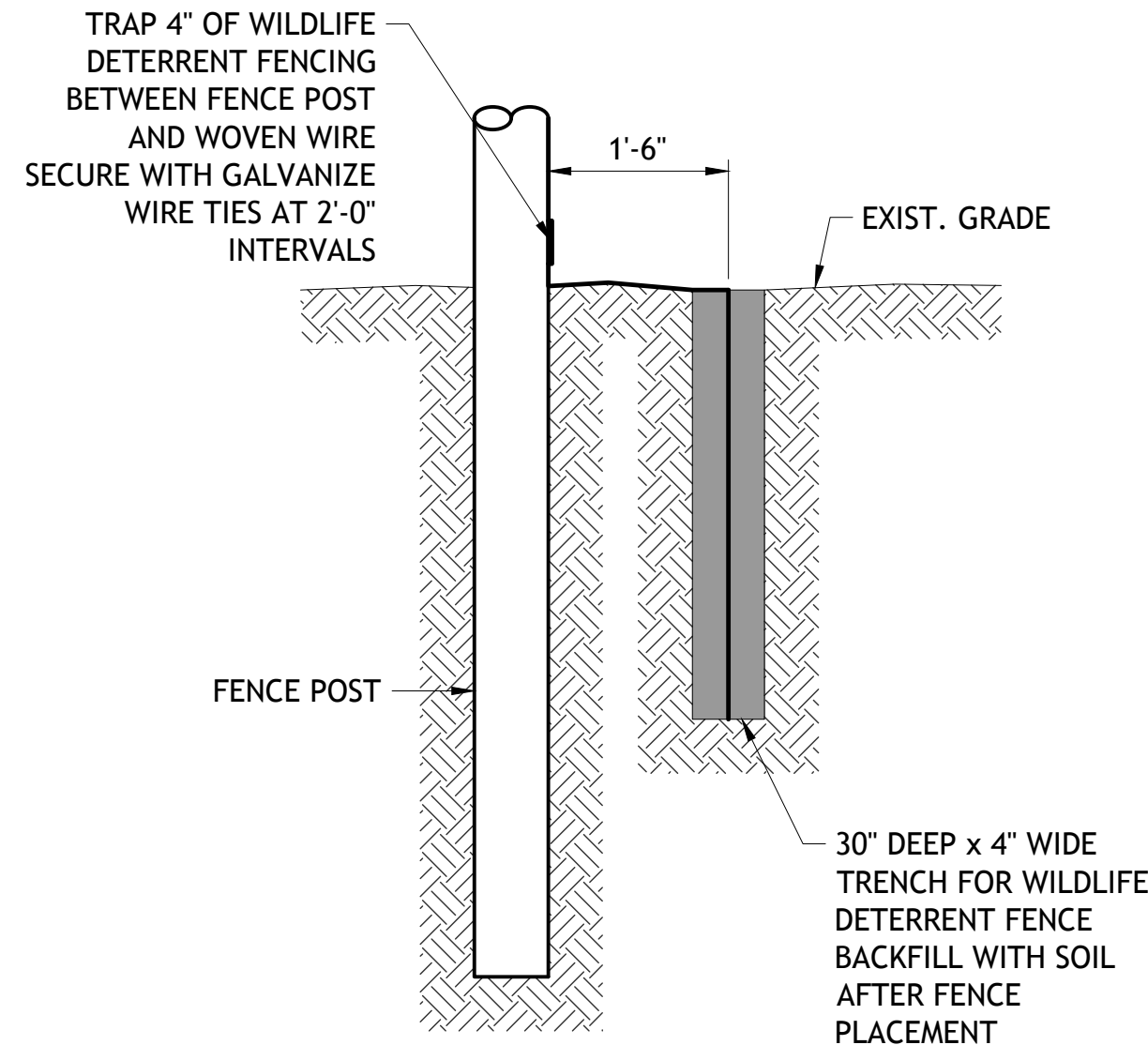
**REFUSAL <4 FT**



**REFUSAL >4 FT**

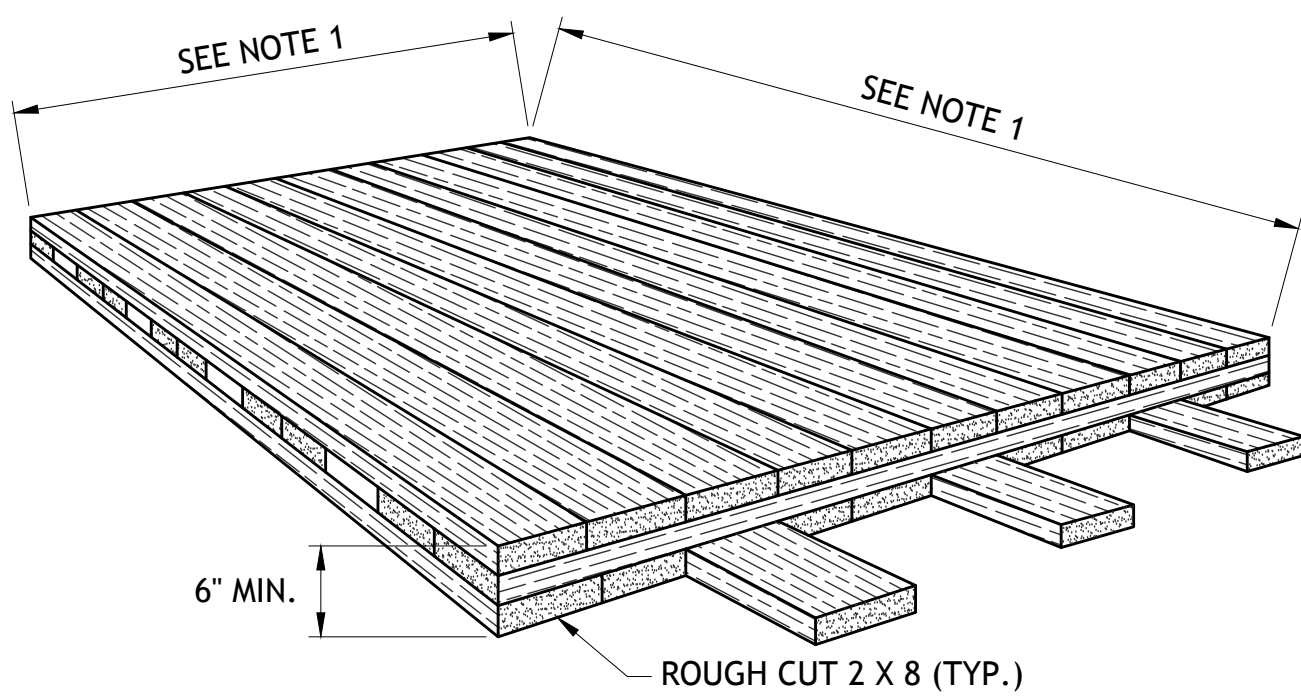
**WILDLIFE FENCE POST SETTING DETAILS WITHIN 25 FOOT BUFFER ZONE AND WETLANDS**

SCALE: N.T.S.



**WILDLIFE DETERRENT FENCE SKIRT DETAIL**

SCALE: N.T.S.



**TIMBER BOG MAT**

SCALE: N.T.S.

- TIMBER BOG MAT NOTES:**
1. THE LENGTH AND WIDTH DIMENSIONS OF THE TIMBER BOG MATS USED DURING CONSTRUCTION SHALL BE SELECTED ACCORDINGLY BASED ON THE SIZE OF THE EQUIPMENT INTENDED TO OPERATE ON THEM. AT NO TIME SHALL THE WHEEL BASE OR TRACK WIDTH OF THE EQUIPMENT WORKING ON THE TIMBER BOG MATS BE WIDER THAN THE MAT.
  2. IN THE OPINION OF THE ENGINEER, TIMBER BOG MATS THAT ARE BROKEN, CRACKED, OR SEVERELY DETERIORATED BEYOND THEIR USEFUL SERVICE LIFE MUST BE REPLACED BY THE CONTRACTOR AT THE ENGINEERS' DISCRETION AND AT THE CONTRACTOR'S EXPENSE.
  3. TIMBER BOG MATS SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
  4. MATS SHALL BE A MINIMUM OF 14 FT WIDE.
  5. STEEL OR COMPOSITE MATS MAY BE SUBMITTED IN PLACE OF TIMBER.



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C2.2 OF 2

NO.	DATE	DESCRIPTION	BY

PROJECT	OWNER
SECURITY / WILDLIFE FENCE PHASE 1	NEW BEDFORD AIRPORT COMMISSION NEW BEDFORD REGIONAL AIRPORT 1569 AIRPORT ROAD, NEW BEDFORD, MA 02740

PROJECT NO.	103-048
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	October 2019
DRAWING SCALE	

SHEET TITLE
FENCE DETAILS (2 OF 2)
GRAPHIC SCALE

DRAWING NO.
C2.2
17 OF 17

**Attachment G**

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Wildlife Habitat Evaluations





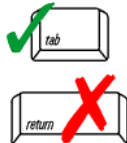
Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands Program

# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 1. Summary Sheet

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



New Bedford Regional Airport Security/Wildlife Fence

Project Name

New Bedford Regional Airport - Area D - Impact Area south of Colonial Hangar

Location

1 s.f. permanent BVW impact, 1,470 s.f. temporary BVW impact, 43 sf BLSF impact

9/24/19

Size of Area Being Impacted

Date

Impact Areas (linear feet, square feet, or acres for each of the impact areas within the site)

Name	Waterbody/ Waterway	Wetland	Upland*	Total Area
1. Area D	0	1 sf (permanent), 1470 sf (temporary)	43 sf (BLSF)	44 sf (permanent), 1470 sf (temporary)
2.				
3.				
4.				
5.				
6.				
7.				

\*Riverfront Area/BLSF

Attach Sketch map and/or photos of the Impact Areas    See Photo 1 in Attachment C

Narrative Description of Site (attach separate page if necessary)

Palustrine emergent/scrub-shrub wetland within a larger red maple swamp complex, the Apponagansett Swamp. Dominant species within the impact area were cattail (*Typha latifolia*), dark green bulrush (*Scirpus atrovirens*), red maple (*Acer rubrum*), and arrow-leaved tearthumb (*Persicaria sagittata*).

### Certification

I hereby certify that this project has been designed to avoid, minimize, and mitigate adverse effects on wildlife habitat, and that it will not, following two growing seasons of project completion and thereafter, substantially reduce its capacity to provide important wildlife habitat functions.

Rhianna Sommers

Signature of Wildlife Specialist (per 310 CMR 10.60 (1) (b))

Rhianna Sommers, Epsilon Associates

Typed or Printed Name



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (for each wetland or non-wetland resource area)

#### I. General Information

New Bedford Regional Airport

Project Location (from NOI page 1)

New Bedford Regional Airport - Impact Area south of Colonial Ramp & Hangar

Impact Area (number/name)

9/24/19

Date(s) of Site Visit(s) and Data Collection

Clear, 72 degrees F

Weather Conditions During Site Visit (if snow cover, include depth)

Rhianna Sommers

9/24/19

Person completing form per 310 CMR 10.60(1)(b)

Date this form was completed

The information on this data sheet is based on my observations unless otherwise indicated

Rhianna Sommers

Signature

#### II. Site Description (complete A or B under Classification - see instructions for full description)

##### A. Classification

##### 1. For Wetland Resource Areas, complete the following:

System: Palustrine

Subsystem: \_\_\_\_\_

Class: Emergent/Scrub-shrub

Subclass: Persistent/Broad-leaved  
deciduous

Hydrology/Water Regime

☐ Permanently flooded

☐ Saturated

☐ Intermittently exposed

☐ Temporarily flooded

☒ Semi-permanently flooded

☐ Intermittently flooded

☐ Seasonally flooded

☐ Artificially flooded

##### 2. For Riverfront or Bordering Land Subject to Flooding Resource Areas, complete the following.

Use a terrestrial classification system such as one of the two listed below:

a. "Classification of the Natural Communities of Massachusetts (Draft)" by Patricia C. Swain and Jennifer B. Kearsley, MA DFW NHESP, Westborough, MA. July 2000. ([Department of Fish & Game Website](#))

b. "New England Wildlife: Habitat, Natural History, and Distribution" by Richard M. DeGraaf and Deborah D. Rudis, USDA Forest Service, Northeastern Forest Experiment Station. General Technical Report NE-108. August 1992. 491 pages.

N/A - wetland

Community Name

Vegetation Description

Physical Description



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

#### B. Inventory (Plant community)

% Cover:	<u>10%</u> Trees (> 20')	<u>10%</u> Shrubs (< 20')	<u>                    </u> Woody vines	<u>                    </u> Mosses	<u>80%</u> Herbaceous
Plant Lists (species that comprise 10% or more of the vegetative cover in each strata; "*" designates a dominant plant species for the strata):					
Strata	Plant Species		Strata	Plant Species	
<u>Herb</u>	<u>Typha latifolia</u>		<u>Herb</u>	<u>Osmunda cinnamomea</u>	
<u>Herb</u>	<u>Persicaria sagittata</u>		<u>                    </u>	<u>                    </u>	
<u>Herb</u>	<u>Scirpus atrovirens</u>		<u>                    </u>	<u>                    </u>	
<u>Herb</u>	<u>Bidens cernua</u>		<u>                    </u>	<u>                    </u>	
<u>Vine</u>	<u>Toxicodendron radicans</u>		<u>                    </u>	<u>                    </u>	
<u>Tree/Shrub</u>	<u>Acer rubrum</u>		<u>                    </u>	<u>                    </u>	

#### C. Inventory (Soils)

<u>Freetown muck, 0 to 1 percent slopes</u>	<u>Very poorly drained</u>
Soil Survey Unit	Drainage Class
<u>Muck</u>	<u>                    </u>
Texture (upper part)	Depth
<u>0" (~5" standing water present at time of site visit)</u>	<u>                    </u>
Depth to Water Table	

### III. Important Habitat Features (complete for all resource areas)

If the following habitat characteristics are present, describe & quantify them on a separate sheet & attach.

#### Wildlife Food

Important Wetland/Aquatic Food Plants (smartweeds, pondweeds, wild rice, bulrush, wild celery)

☒ Abundant                      ☐ Present                      ☐ Absent

Important Upland/Wetland Food Plants (hard mast and fruit/berry producers)

☐ Abundant                      ☒ Present                      ☐ Absent

Shrub thickets or streambeds with abundant earthworms (American woodcock)

☐ Present                      ☒ Absent

Shrub and/or herbaceous vegetation suitable for veery nesting

☐ Present                      ☒ Absent



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

Number of trees (live or dead) > 30" DBH: 0

Number (or density) of Standing Dead Trees (potential for cavities and perches):

0 3 0 0  
6-12" dbh 12-18" dbh 18-24" dbh > 24" dbh

Number of Tree Cavities in trunks or limbs of:

0  
6-12" diameter (e.g., tree swallow, saw whet owl, screech owl, bluebird, other songbirds)

0  
12-18" diameter (e.g., hooded merganser, wood duck, common goldeneye, mink)

0  
>18" diameter (e.g., hooded merganser, wood duck, common goldeneye, common merganser, barred owl, mink, raccoon, fisher)

Small mammal burrows

☐ Abundant ☐ Present ☒ Absent

Cover/Perches/Basking/Denning/Nesting Habitat

☒ Dense herbaceous cover (voles, small mammals, amphibians & reptiles)

☒ Large woody debris on the ground (small mammals, mink, amphibians & reptiles)

☒ Rocks, crevices, logs, tree roots or hummocks under water's surface (turtles, snakes, frogs)

☐ Rocks, crevices, fallen logs, overhanging branches or hummocks at, or within 1m above the water's surface (turtles, snakes, frogs, wading birds, wood duck, mink, raccoon)

☐ Rock piles, crevices, or hollow logs suitable for:

☐ otter ☐ mink ☐ porcupine ☐ bear ☐ bobcat ☐ turkey vulture

☐ Live or dead standing vegetation overhanging water or offering good visibility of open water (e.g., osprey, kingfisher, flycatchers, cedar waxwings)

Depressions that may serve as seasonal (vernal/autumnal) pools

☐ Present ☒ Absent

Standing water present at least part of the growing season, suitable for use by

☐ Breeding amphibians ☒ Non-breeding amphibians (foraging, re-hydration)

☒ Turtles ☐ Foraging waterfowl

Sphagnum hummocks or mats, moss-covered logs or saturated logs, overhanging or directly adjacent to pools of standing water in spring (four-toed salamander)

☐ Present ☒ Absent





# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

Important habitat characteristics (if present, describe and quantify them on a separate sheet)

Medium to large (> 6"), flat rocks within a stream (cover for stream salamanders and nesting habitat for spring & two-lined salamanders)

☐ Present ☒ Absent

Flat rocks and logs on banks or within exposed portions of streambeds (cover for stream salamanders and nesting habitat for dusky salamanders)

☐ Present ☒ Absent

Underwater banks of fine silt and/or clay (beaver, muskrat, otter)

☐ Present ☒ Absent

Undercut or overhanging banks (small mammals, mink, weasels)

☐ Present ☒ Absent

Vertical sandy banks (bank swallow, kingfisher)

☐ Present ☒ Absent

Areas of ice-free open water in winter

☐ Present ☒ Absent

Mud flats

☐ Present ☒ Absent

Exposed areas of well-drained, sandy soil suitable for turtle nesting

☐ Present ☒ Absent

Wildlife dens/nests (if present, describe & quantify them on the back of this sheet)

Turtle nesting sites

☐ Present ☒ Absent

Bank swallow colony

☐ Present ☒ Absent

Nest(s) present of

☐ Bald Eagle

☐ Osprey

☐ Great Blue Heron

Den(s) present of

☐ Otter

☐ Mink

☐ Beaver



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

Project area is within:

- ☐ 100' of beaver, mink or otter den, bank swallow colony or turtle nesting area
- ☐ 200' of Great Blue Heron or osprey nest(s)
- ☐ 1400' of a Bald Eagle nest<sup>1</sup>

Emergent Wetlands (if present, describe & quantify them on a separate sheet)

Emergent wetland vegetation at least seasonally flooded during the growing season (wood duck, green heron, black-crowned night heron, king rail, Virginia rail, coot, etc.)

Flooded > 5 cm ☒ Present ☐ Absent

Flooded > 25 cm (pied-billed grebe) ☒ Present ☐ Absent

Persistent emergent wetland vegetation at least seasonally flooded during the growing season (mallard, American bittern, sora, common snipe, red-winged blackbird, swamp sparrow, marsh wren)

Flooded > 5 cm ☒ Present ☐ Absent

Flooded > 25 cm (least bittern, common moorhen) ☒ Present ☐ Absent

Cattail emergent wetland vegetation at least seasonally flooded during the growing season

Flooded > 5 cm (marsh wren) ☒ Present ☐ Absent

Flooded > 25 cm (least bittern, common moorhen) ☒ Present ☐ Absent

Fine-leaved emergent vegetation (grasses and sedges) at least seasonally flooded during the growing season (common snipe, spotted sandpiper, sedge wren)

Flooded > 5 cm ☐ Present ☒ Absent

Flooded > 25 cm (least bittern, common moorhen) ☐ Present ☒ Absent

#### IV. Landscape Context

A. **Habitat Continuity** (if present, describe the landscape context on a separate sheet and its importance for area-sensitive species)

- |   |                     |                              |  |
|---|---------------------|------------------------------|--|
| Is the impact area part of an emergent marsh at least | 1.0 acre in size?   | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| (marsh and waterbirds)                                | 2.0 acres in size?  | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
|   | 5.0 acres in size?  | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
|   | 10.0 acres in size? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

<sup>1</sup> 1400 feet is the distance used by NHESP for evaluating potential disturbance impacts on eagle nests under MESA. Keep in mind, however, that this doesn't give jurisdiction within 1400' of an eagle's nest; it only identifies it on the checklist so that adverse effects can be avoided if work in a resource area is within 1400 feet.



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

Is the impact area part of a wetland complex at least	2.5 acres in size?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
(turtles, frogs, waterfowl, mammals)	5.0 acres in size?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	10.0 acres in size?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	25.0 acres in size?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
For upland resource areas is the impact area part of contiguous forested habitat at least			
(forest interior nesting birds)	50 acres in size?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	100 acres in size?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
N/A	250 acres in size?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	500 acres in size?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
(grassland nesting birds)	> 1.0 acre in size?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
(special habitat such as gallery floodplain forest, alder thicket, etc.)	> 1.0 acre in size?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

#### B. Connectivity with adjoining natural habitats

- ☐ No direct connections to adjacent areas of wildlife habitat (little connectivity function)
- ☐ Connectors numerous or impact area is embedded in a large area of natural habitat (limited connectivity function)
- ☒ Impact area contributes to a limited number of connectors to adjacent areas of habitat (somewhat important for connectivity function)
- ☐ Impact area serves as *part of* a sole connector to adjacent areas of habitat (important for connectivity function)
- ☐ Impact area serves as *only* connector to adjacent areas of habitat (very important for connectivity function)

#### V. Habitat Degradation (describe degradation and wildlife impacts on the back of the sheet)

- ☐ Evidence of significant chemical contamination
- ☐ Evidence of significant levels of dumping
- ☐ Evidence of significant erosion or sedimentation problems
- ☐ Significant invasion of exotic plants (e.g., purple loosestrife, *Phragmites*, glossy buckthorn)
- ☐ Disturbance from roads or highways
- ☐ Other human disturbance
- ☐ Is the site the only resource area in the vicinity of an otherwise developed area

Note: These are not the only important habitat features that may be observed on a site. If the wildlife specialist identifies other features they should be noted in the application.



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

#### VI. Quantification Table for Important Habitat Characteristics

Habitat Characteristic	Amount Impacted in Impact Area	Current (entire site)	Post-Construction (entire site)
Example: standing dead trees 6-12" dbh	4	12	8
Wetland/aquatic food plants	Minor	Abundant	Abundant
Upland/wetland food plants	Minor	Moderate	Moderate
Dense herbaceous cover	Minor	Abundant	Abundant
Large woody debris on ground	Little to none	Moderate	Moderate
Rocks/crevices/logs under water	Minor	Moderate	Moderate
Emergent wetland vegetation seasonally flooded	Minor	Abundant	Abundant





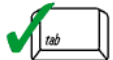
Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands Program

# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 1. Summary Sheet

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



New Bedford Regional Airport Security/Wildlife Fence

Project Name

New Bedford Regional Airport - Area B - Impact Area north of Runway 32

Location

2 sf permanent BVW impacts, 2,268 sf temporary BVW impacts

Size of Area Being Impacted

9/24/19

Date

Impact Areas (linear feet, square feet, or acres for each of the impact areas within the site)

Name	Waterbody/ Waterway	Wetland	Upland*	Total Area
1. Area B	0	2 sf (permanent), 2268 sf (temporary)	0	2 sf (permanent), 2268 sf (temporary)
2.				
3.				
4.				
5.				
6.				
7.				

\*Riverfront Area/BLSF

Attach Sketch map and/or photos of the Impact Areas    See Photo 5 in Attachment B

Narrative Description of Site (attach separate page if necessary)

Palustrine herbaceous scrub-shrub wetland north of Runway 32. Dominant species include red maple (*Acer rubrum*), multiflora rose (*Rosa multiflora*), grape (*Vitis riparia*), Bebb's willow (*Salix bebbiana*), mannagrass (*Glyceria canadensis*), and hydropiper (*Persicaria hydropiper*).

### Certification

I hereby certify that this project has been designed to avoid, minimize, and mitigate adverse effects on wildlife habitat, and that it will not, following two growing seasons of project completion and thereafter, substantially reduce its capacity to provide important wildlife habitat functions.

Rhianna Sommers

Signature of Wildlife Specialist (per 310 CMR 10.60 (1) (b))

Rhianna Sommers, Epsilon Associates

Typed or Printed Name



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (for each wetland or non-wetland resource area)

#### I. General Information

New Bedford Regional Airport

Project Location (from NOI page 1)

New Bedford Regional Airport - Impact Area off Downey Street (in wetland)

Impact Area (number/name)

9/24/19

Date(s) of Site Visit(s) and Data Collection

Clear, 72 degrees F

Weather Conditions During Site Visit (if snow cover, include depth)

Rhianna Sommers

Person completing form per 310 CMR 10.60(1)(b)

9/24/19

Date this form was completed

The information on this data sheet is based on my observations unless otherwise indicated

Rhianna Sommers

Signature

#### II. Site Description (complete A or B under Classification - see instructions for full description)

##### A. Classification

##### 1. For Wetland Resource Areas, complete the following:

System: Palustrine

Subsystem: \_\_\_\_\_

Class: Scrub-shrub

Subclass: Broad-leaved deciduous

Hydrology/Water Regime

☐ Permanently flooded

☐ Saturated

☐ Intermittently exposed

☐ Temporarily flooded

☐ Semi-permanently flooded

☐ Intermittently flooded

☒ Seasonally flooded

☐ Artificially flooded

##### 2. For Riverfront or Bordering Land Subject to Flooding Resource Areas, complete the following.

Use a terrestrial classification system such as one of the two listed below:

a. "Classification of the Natural Communities of Massachusetts (Draft)" by Patricia C. Swain and Jennifer B. Kearsley, MA DFW NHESP, Westborough, MA. July 2000. ([Department of Fish & Game Website](#))

b. "New England Wildlife: Habitat, Natural History, and Distribution" by Richard M. DeGraaf and Deborah D. Rudis, USDA Forest Service, Northeastern Forest Experiment Station. General Technical Report NE-108. August 1992. 491 pages.

Community Name

Vegetation Description

Physical Description



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

#### B. Inventory (Plant community)

% Cover: 0% 70% 10% 20%  
Trees (> 20') Shrubs (< 20') Woody vines Mosses Herbaceous

Plant Lists (species that comprise 10% or more of the vegetative cover in each strata; "\*" designates a dominant plant species for the strata):

Strata	Plant Species	Strata	Plant Species
<u>Shrub</u>	<u>Acer rubrum</u>	<u>Shrub</u>	<u>Viburnum dentatum</u>
<u>Shrub</u>	<u>Rosa multiflora</u>	<u>Herb</u>	<u>Lythrum salicaria</u>
<u>Vine</u>	<u>Vitis riparia</u>		
<u>Herb</u>	<u>Glyceria canadensis</u>		
<u>Shrub</u>	<u>Salix bebbiana</u>		
<u>Herb</u>	<u>Persicaria hydropiper</u>		

#### C. Inventory (Soils)

Whitman fine sandy loam, 0 to 3 percent slopes, extremely stony Very poorly drained  
Soil Survey Unit Drainage Class  
Mucky-modified sand  
Texture (upper part) Depth  
>12" (saturated at 0")  
Depth to Water Table

### III. Important Habitat Features (complete for all resource areas)

If the following habitat characteristics are present, describe & quantify them on a separate sheet & attach.

#### Wildlife Food

Important Wetland/Aquatic Food Plants (smartweeds, pondweeds, wild rice, bulrush, wild celery)

☐ Abundant ☒ Present ☐ Absent

Important Upland/Wetland Food Plants (hard mast and fruit/berry producers)

☐ Abundant ☒ Present ☐ Absent

Shrub thickets or streambeds with abundant earthworms (American woodcock)

☒ Present ☐ Absent

Shrub and/or herbaceous vegetation suitable for veery nesting

☐ Present ☒ Absent



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

Number of trees (live or dead) > 30" DBH: 0

Number (or density) of Standing Dead Trees (potential for cavities and perches):

0 0 0 0  
6-12" dbh 12-18" dbh 18-24" dbh > 24" dbh

Number of Tree Cavities in trunks or limbs of:

0  
6-12" diameter (e.g., tree swallow, saw whet owl, screech owl, bluebird, other songbirds)

0  
12-18" diameter (e.g., hooded merganser, wood duck, common goldeneye, mink)

0  
>18" diameter (e.g., hooded merganser, wood duck, common goldeneye, common merganser, barred owl, mink, raccoon, fisher)

Small mammal burrows

☐ Abundant ☒ Present ☐ Absent

Cover/Perches/Basking/Denning/Nesting Habitat

☐ Dense herbaceous cover (voles, small mammals, amphibians & reptiles)

small woody debris/vines

☐ Large woody debris on the ground (small mammals, mink, amphibians & reptiles)

☐ Rocks, crevices, logs, tree roots or hummocks under water's surface (turtles, snakes, frogs)

☐ Rocks, crevices, fallen logs, overhanging branches or hummocks at, or within 1m above the water's surface (turtles, snakes, frogs, wading birds, wood duck, mink, raccoon)

☐ Rock piles, crevices, or hollow logs suitable for:

☐ otter ☐ mink ☐ porcupine ☐ bear ☐ bobcat ☐ turkey vulture

☐ Live or dead standing vegetation overhanging water or offering good visibility of open water (e.g., osprey, kingfisher, flycatchers, cedar waxwings)

Depressions that may serve as seasonal (vernal/autumnal) pools

☐ Present ☒ Absent

Standing water present at least part of the growing season, suitable for use by

☐ Breeding amphibians ☒ Non-breeding amphibians (foraging, re-hydration)

☐ Turtles ☐ Foraging waterfowl

Sphagnum hummocks or mats, moss-covered logs or saturated logs, overhanging or directly adjacent to pools of standing water in spring (four-toed salamander)

☐ Present ☒ Absent





# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

Important habitat characteristics (if present, describe and quantify them on a separate sheet)

Medium to large (> 6"), flat rocks within a stream (cover for stream salamanders and nesting habitat for spring & two-lined salamanders)

☐ Present ☒ Absent

Flat rocks and logs on banks or within exposed portions of streambeds (cover for stream salamanders and nesting habitat for dusky salamanders)

☐ Present ☒ Absent

Underwater banks of fine silt and/or clay (beaver, muskrat, otter)

☐ Present ☒ Absent

Undercut or overhanging banks (small mammals, mink, weasels)

☐ Present ☒ Absent

Vertical sandy banks (bank swallow, kingfisher)

☐ Present ☒ Absent

Areas of ice-free open water in winter

☐ Present ☒ Absent

Mud flats

☐ Present ☒ Absent

Exposed areas of well-drained, sandy soil suitable for turtle nesting

☐ Present ☒ Absent

Wildlife dens/nests (if present, describe & quantify them on the back of this sheet)

Turtle nesting sites

☐ Present ☒ Absent

Bank swallow colony

☐ Present ☒ Absent

Nest(s) present of

☐ Bald Eagle

☐ Osprey

☐ Great Blue Heron

Den(s) present of

☐ Otter

☐ Mink

☐ Beaver



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

Project area is within:

- ☐ 100' of beaver, mink or otter den, bank swallow colony or turtle nesting area
- ☐ 200' of Great Blue Heron or osprey nest(s)
- ☐ 1400' of a Bald Eagle nest<sup>1</sup>

Emergent Wetlands (if present, describe & quantify them on a separate sheet)

Emergent wetland vegetation at least seasonally flooded during the growing season (wood duck, green heron, black-crowned night heron, king rail, Virginia rail, coot, etc.)

Flooded > 5 cm ☒ Present ☐ Absent

Flooded > 25 cm (pied-billed grebe) ☐ Present ☒ Absent

Persistent emergent wetland vegetation at least seasonally flooded during the growing season (mallard, American bittern, sora, common snipe, red-winged blackbird, swamp sparrow, marsh wren)

Flooded > 5 cm ☐ Present ☒ Absent

Flooded > 25 cm (least bittern, common moorhen) ☐ Present ☒ Absent

Cattail emergent wetland vegetation at least seasonally flooded during the growing season

Flooded > 5 cm (marsh wren) ☐ Present ☒ Absent

Flooded > 25 cm (least bittern, common moorhen) ☐ Present ☒ Absent

Fine-leaved emergent vegetation (grasses and sedges) at least seasonally flooded during the growing season (common snipe, spotted sandpiper, sedge wren)

Flooded > 5 cm ☐ Present ☒ Absent

Flooded > 25 cm (least bittern, common moorhen) ☐ Present ☒ Absent

#### IV. Landscape Context

A. **Habitat Continuity** (if present, describe the landscape context on a separate sheet and its importance for area-sensitive species)

- |   |                     |                              |                             |
|---|---------------------|------------------------------|-----------------------------|
| Is the impact area part of an emergent marsh at least | 1.0 acre in size?   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| (marsh and waterbirds)                                | 2.0 acres in size?  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
|   | 5.0 acres in size?  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
|   | 10.0 acres in size? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

<sup>1</sup> 1400 feet is the distance used by NHESP for evaluating potential disturbance impacts on eagle nests under MESA. Keep in mind, however, that this doesn't give jurisdiction within 1400' of an eagle's nest; it only identifies it on the checklist so that adverse effects can be avoided if work in a resource area is within 1400 feet.



# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

Is the impact area part of a wetland complex at least	2.5 acres in size?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
(turtles, frogs, waterfowl, mammals)	5.0 acres in size?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	10.0 acres in size?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	25.0 acres in size?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

For upland resource areas is the impact area part of contiguous forested habitat at least

(forest interior nesting birds)	50 acres in size?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	100 acres in size?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	250 acres in size?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	500 acres in size?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
(grassland nesting birds)	> 1.0 acre in size?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
(special habitat such as gallery floodplain forest, alder thicket, etc.)	> 1.0 acre in size?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

#### B. Connectivity with adjoining natural habitats

- ☐ No direct connections to adjacent areas of wildlife habitat (little connectivity function)
- ☐ Connectors numerous or impact area is embedded in a large area of natural habitat (limited connectivity function)
- ☒ Impact area contributes to a limited number of connectors to adjacent areas of habitat (somewhat important for connectivity function)
- ☐ Impact area serves as *part of* a sole connector to adjacent areas of habitat (important for connectivity function)
- ☐ Impact area serves as *only* connector to adjacent areas of habitat (very important for connectivity function)

#### V. Habitat Degradation (describe degradation and wildlife impacts on the back of the sheet)

- ☐ Evidence of significant chemical contamination
- ☐ Evidence of significant levels of dumping
- ☐ Evidence of significant erosion or sedimentation problems
- ☒ Significant invasion of exotic plants (e.g., purple loosestrife, *Phragmites*, glossy buckthorn)
- ☐ Disturbance from roads or highways
- ☐ Other human disturbance
- ☐ Is the site the only resource area in the vicinity of an otherwise developed area

Note: These are not the only important habitat features that may be observed on a site. If the wildlife specialist identifies other features they should be noted in the application.





# Wildlife Habitat Protection Guidance

## Appendix B: Detailed Wildlife Habitat Evaluation

### Part 2. Field Data Form (continued)

#### VI. Quantification Table for Important Habitat Characteristics

Habitat Characteristic	Amount Impacted in Impact Area	Current (entire site)	Post-Construction (entire site)
Example: standing dead trees 6-12" dbh	4	12	8
Wetland/aquatic food plants	Minor	Moderate	Moderate
Upland/wetland food plants	Minor	Moderate	Moderate
Shrub thickets with abundant earthworms	Minor	Moderate	Moderate
Small mammal burrows	Few to none	Presumed present	No change anticipated
Emergent wetland vegetation seasonally flooded	Minor	Abundant	Abundant

**Attachment H**

---

Proof of NHESP Mailing

7019 0700 0001 7249 8872

<b>U.S. Postal Service™</b>	
<b>CERTIFIED MAIL® RECEIPT</b> 5584	
Domestic Mail Only	
For delivery information, visit our website at <a href="http://www.usps.com">www.usps.com</a> ®.	
WESTBOROUGH, MA 01581	
Certified Mail Fee	\$3.50
\$	\$2.80
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$7.85
\$	
Total Postage a	\$10.65
\$	
Sent To	Natural Heritage and Endangered Species Program
Street and Apt. #	Division of Fisheries and Wildlife
City, State, ZIP+4	1 Rabbit Hill Road Westborough, MA 01581
PS Form 3800, 11-1-2013 See reverse for instructions	





**EPSILON ASSOCIATES, INC.**3 MILL & MAIN PLACE  
STE 250  
MAYNARD, MA 01754**Middlesex Savings Bank**  
CONCORD, MA 01742  
53-7122/2113

41175

10/17/2019

PAY TO THE  
ORDER OF Commonwealth of Massachusetts

\$ \*\*300.00

Three Hundred and 00/100\*\*\*\*\* DOLLARS

A PROTECTED AGAINST FRAUD A

Commonwealth of Massachusetts

MEMO

⑈041175⑈ ⑆211371227⑆ 800205855⑈

**EPSILON ASSOCIATES, INC.**

Commonwealth of Massachusetts

10/17/2019

41175

5200 · Direct Expenses:5295 · Other Billa Commonwealth of Massachusetts - MESA Filing Fee

300.00

Middlesex Savings Ch

300.00

