

Notice of Intent

Bioremediation System Expansion

Raytheon Company

Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

16 March 2011

www.erm.com

Raytheon

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Notice of Intent

Bioremediation System Expansion

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430 Boston Post Road
Wayland, Massachusetts

16 March 2011

ERM Reference: 0114119



John C. Drobinski, P.G., LSP
Principal-in-Charge



Jason D. Flattery, P.E.
Project Manager

Environmental Resources Management
399 Boylston Street, 6th Floor
Boston, Massachusetts 02116
T: (617) 646-7800
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NOTICE OF INTENT

Wetlands Protection Act Form 3

Wayland Wetlands and Water Resources Bylaw filing materials

Chapter 194 Application

Application Submission Requirements Checklist

Project Summary and Waiver Request Statement

Copies of Local and State Filing Fees

APPENDIX A - ABUTTER NOTIFICATION MATERIALS

Abutter Notification Letter

Affidavit of Service

Certified Abutters List

APPENDIX B - FIGURES

Figure 1 - Site Locus Map

Figure 2 - Proposed Injection Well and Infiltration Chamber Plan

Figure 3 - Proposed Injection Well and Infiltration Chamber Detail

Figure 4 - Erosion Control Measures Detail



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

Wayland

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):

<u>430 Boston Post Road</u>	<u>Wayland</u>	<u>01778</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	<u>42.36627N</u>	<u>71.36957W</u>
	d. Latitude	e. Longitude
<u>23</u>	<u>23-52C and 23-52D</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>Louis</u>	<u>Burkhardt</u>	
a. First Name	b. Last Name	
<u>Raytheon Company</u>		
c. Organization		
<u>880 Technology Park Drive, MS 3-3029</u>		
d. Street Address		
<u>Billerica</u>	<u>MA</u>	<u>01821</u>
e. City/Town	f. State	g. Zip Code
<u>978-436-8238</u>	<u>978-436-8560</u>	<u>louis_j_burkhardt@raytheon.com</u>
h. Phone Number	i. Fax Number	j. Email Address

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

<u>Frank</u>	<u>Dougherty</u>	
a. First Name	b. Last Name	
<u>Twenty Wayland LLC % KGI Properties</u>		
c. Organization		
<u>10 Memorial Boulevard, Suite 901</u>		
d. Street Address		
<u>Providence</u>	<u>RI</u>	<u>02903</u>
e. City/Town	f. State	g. Zip Code
<u>617-357-9300</u>	<u>617-357-9990</u>	<u>f.dougherty@kgiproperties.com</u>
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>John</u>	<u>Drobinski</u>	
a. First Name	b. Last Name	
<u>ERM</u>		
c. Company		
<u>399 Boylston Street, 6th Floor</u>		
d. Street Address		
<u>Boston</u>	<u>MA</u>	<u>02116</u>
e. City/Town	f. State	g. Zip Code
<u>617-646-7800</u>	<u>617-267-6447</u>	<u>john.drobinski@erm.com</u>
h. Phone Number	i. Fax Number	j. Email address

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

<u>\$1050.00</u>	<u>\$512.50</u>	<u>\$537.50</u>
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:

To continue remedial actions, a limited groundwater investigation via temporary sample collection methods will be conducted in the Buffer Zone. Additionally, an injection chamber and wells will be constructed in the Buffer Zone to improve performance of the existing bioremediation system.

7a. Project Type Checklist:

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

7b. Is any portion of the proposed activity eligible to be treated as a 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:

2. Limited Project

8. Property recorded at the Registry of Deeds for:

Southern Middlesex

a. County

52

c. Book

b. Certificate # (if registered land)

22 and 23

d. Page Number

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

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

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

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

Table with 3 columns: Resource Area, Size of Proposed Alteration, Proposed Replacement (if any). Rows include Bank, Bordering Vegetated Wetland, and Land Under Waterbodies and Waterways.



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

Resource Area, Size of Proposed Alteration, Proposed Replacement (if any)
d. Bordering Land Subject to Flooding
e. Isolated Land Subject to Flooding
f. Riverfront Area
2. Width of Riverfront Area (check one):
3. Total area of Riverfront Area on the site of the proposed project:
4. Proposed alteration of the Riverfront Area:
5. Has an alternatives analysis been done and is it attached to this NOI?
6. Was the lot where the activity is proposed created prior to August 1, 1996?

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

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.

Resource Area, Size of Proposed Alteration, Proposed Replacement (if any)
a. Designated Port Areas
b. Land Under the Ocean
c. Barrier Beach
d. Coastal Beaches
e. Coastal Dunes



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

	<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

C. Other Applicable Standards and Requirements

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://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/priority_habitat/online_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
Route 135, North Drive
Westborough, MA 01581**

b. Date of map



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Provided by MassDEP:	
MassDEP File Number	_____
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Wayland	_____
City/Town	_____

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

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.1.d, 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).*

1. c. Submit Supplemental Information for Endangered Species Review*

1. Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area _____ percentage/acreage
 - (b) outside Resource Area _____ percentage/acreage
2. Assessor's Map or right-of-way plan of site
3. 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
 - (c) MESA filing fee (fee information available at: 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

d. 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; 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

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/dfwele/dfw/nhosp/nhosp.htm>, regulatory review tab). 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)

3. Separate MESA review completed. Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
2. 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 or hand delivery of NOI to either:

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

North Shore - Hull to New Hampshire:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930

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.

3. 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

4. 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

5. 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

6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?

a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:

1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
2. A portion of the site constitutes redevelopment
3. Proprietary BMPs are included in the Stormwater Management System.

b. No. Check why the project is exempt:

1. Single-family house

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



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

- 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

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.
- 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.

a. Plan Title	

b. Prepared By	c. Signed and Stamped by

d. Final Revision Date	e. Scale

f. Additional Plan or Document Title	g. Date

- 5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form
- 9. Attach Stormwater Report, if needed.

(617) 267-6447



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



Wayland
City/Town

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: 057987 3. Check date: 3/15/11
4. State Check Number: 057989 5. Check date: 3/15/11
6. Payor name on check: First Name: ERM 7. Payor name on check: Last Name: N/A

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: [Signature] 2. Date: 3-15-11
3. Signature of Property Owner (if different): [Signature] 4. Date: 3/15/11
5. Signature of Representative (if any): [Signature] 6. Date: 3/16/11

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.

Post-It® Fax Note	7671	Date	3/15/11	# of pages	▶
To	JASON	From	FRANK D.		
Co./Dept.		Co.			
Phone #		Phone #			
Fax #		Fax #			

**WAYLAND'S WETLANDS AND WATER RESOURCES BYLAW ("CHAPTER 194")
APPLICATION SUBMISSION REQUIREMENTS CHECKLIST**

Page 1 of 4

Upon submittal of any Bylaw application the applicant(s), property owner (if different), and their representative(s) must sign this checklist.

The following 8 items are necessary for ALL Bylaw applications. No exceptions.

- Original MA Wetlands Protection Act ("WPA") application, including owner(s) signature, the applicant(s) signature, minimum 1 set of colored plan(s), narrative, etc. NOTE: If a WPA Application is not filed a copy of either a statement as to not applicable (limited generally to buffer zone to bordering land subject to flooding) or a valid Order of Resource Area Determination (ORAD) must be provided with copies.
- Original Chapter 194 Bylaw application, including owner(s) signature, the applicant(s) signature, and minimum 1 set of colored plan(s), narrative, etc.
- 8 copies of the MA Wetlands Protection Act application, including all plans, narratives, etc.
- 8 copies of the Chapter 194 Bylaw application, including all plans, narratives, etc.
- A separate check for all applicable Wetlands Act fees.
- A separate check for all applicable Chapter 194 Bylaw fees.
- A list of the 100' Abutters, certified by the Assessors Office.
- Evidence of Board of Health receipt of application or approval for all applications.
TO BE PROVIDED
- Project Summary
- PS 1. A narrative statement describing all of the activities proposed. If work is omitted from the narrative it may not be permitted.
- PS 2. A narrative summary description of the types of wetland resource areas on or near the site. Omission of resource areas is a basis for denial of the project as being incomplete.
- PS 3. A narrative discussion how the project has been designed to minimize impacts to resource areas and how any mitigation has been proposed to better protect or enhance the resource areas during and after construction. **The Conservation Commission will evaluate your application looking at a project and the impact on the resource area (e.g. a wetland, pond, vernal pool, riverfront area, etc.) The Commission's priorities for project assessment are avoidance, minimization, and mitigation of impacts to resource area/s in that order. If mitigation is proposed the Commission will require a greater than 1:1 ratio of replication for impact -1:1.5 for wetlands and 1:1.4 for buffer zone. Your summary should clearly include how you have addressed these priorities.**
- PS 4. A narrative discussion that presents justification, based on factors of technical or economic feasibility, why alternatives that might minimize or completely avoid adverse impact to the Riverfront Area, Floodplain, the Buffer Zone, and/or any other resource area are not being proposed. At a minimum there must be discussion of the alternative for no alteration.

The following items are required for Site Plans submitted with a Bylaw application; however, if the Applicant considers that the information is not relevant to the scope or scale of the proposed project, a Waiver(s) of requirements must be requested at the time of filing the application (see p. 4) with the Conservation Commission.

WAYLAND'S WETLANDS AND WATER RESOURCES BYLAW ("CHAPTER 194")
APPLICATION SUBMISSION REQUIREMENTS CHECKLIST
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Site Plan Minimum Requirements

The following shall be included on the Site Plan:

- 1A. Stamp of a Professional Engineer (P.E.) and/or a Professional Land Surveyor (P.L.S.) depending upon proximity to lot lines or project complexity.
- N/A*
- OR**
- 1B. Stamp of a Registered Sanitarian (R.S.) is acceptable for designs of septic systems handling less than 2,000 gallons per day, with incidental site work. Not acceptable for other project designs, determination of lot lines, or non-septic grading.
- N/A*
2. Grade elevations based on National Geodetic Vertical Datum (NGVD). Grade contours in the area of work shall be provided with at least 1-foot intervals.
- NA*
3. Plan Scale: 1 inch = 10 feet, or 1 inch = 20 feet.
4. Wetlands flagging with letters and/or numbers as defined in the field.
5. Date that wetlands flagging was done, name of who did the delineation work, and/or source of information used to depict the wetlands.
6. Site Plans must clearly show existing conditions and proposed conditions, utilities, impervious surfaces, limit of lawn, trees greater than 6 inches in diameter, significant land features such as rock outcroppings, all Resource Areas (differentiate each) including Buffer Zone. *Note: It may be more comprehensible to submit two plans: an existing conditions plan and a proposed conditions plan.*
7. Site plans must detail the permanent demarcation of the limit of lawn with minimum 30' offset from resource area for new construction, and minimum average 15' offset for existing dwellings.
8. Colored lines/areas for Wetland Resource Areas and Critical Site Features with suggested colors:
- Blue - stream/bank limit of flood plain
 - Green - Limit of lawn and/or tree line
 - Gray - Areas of Impervious surface
 - Black - Limit of work on property including construction activity
 - Yellow - riverfront 100ft and 200ft (Need another symbol as well since yellow will not copy.)
 - Red - Wetland resource & 30 ft no-disturb line
 - Brown - area of filling of resource area or buffer zone
- N/A* 9. Locations and identifiers for all test pit locations.
- N/A* 10. A cross-section of grading and profile for proposed septic systems.
11. Locations for temporary stockpiles or storage of soils or demolition debris during construction.
12. Access route for construction equipment.
13. Location of hay bales and/or silt fence sediment barrier.
14. Detail for installation of sediment barrier.
15. Location for refueling of equipment. (Outside buffer zone strongly preferred)
- N/A* 16. Pre/Post-Construction Lot Coverage Summary for areas within by-law jurisdiction: a) Total lot area; b) total impervious area (**Note: impervious areas shall include, but are not limited to, roofs, decks, walks, and driveways**); c) total landscaped/lawn area; and d) total area altered during construction (including temporary impacts).

**WAYLAND'S WETLANDS AND WATER RESOURCES BYLAW ("CHAPTER 194")
APPLICATION SUBMISSION REQUIREMENTS CHECKLIST**

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Drainage Requirements

The Commission seeks to protect water quality for surface water and groundwater, and to have no increase to the rate or quantity of runoff of storm water from the property.

NA SEE WAIVER REQUEST

- 1A. For projects adding less than or equal to 500 square feet of impervious area, a narrative description of specific measures used to provide for infiltration of runoff equivalent to runoff this additional impervious area. Those measures must be clearly depicted on the Site Plan as a specification.
- OR**
- 1B. For projects adding more than 500 square feet of impervious area a set of calculations with:
 - 1B.1 A narrative discussion of the method used, and a statement of all assumptions used in drainage calculations
 - 1B.2 A plan showing drainage catchment areas
 - 1B.3 Supporting calculations stamped by a P.E.
 - 1B.4 Summary tables presenting Pre/Post Construction Storm Water Runoff Rates and Volumes for a 1-inch storm event, a 10-year, and a 100-year storm events. Note: Rainfall of at least 7 inches in 24 hours must be used for 100-year storm event.
- 2. Description whether site is within an urbanized area or Riverfront area (NPDES – Phase II Storm Water). If site is within an urbanized area, as defined by Town of Wayland map, the nearest off-site storm water drainage structures must be identified. Urbanized Areas: Town of Wayland Map entitled: "Urbanized Areas from 2000 United States Census Wayland, Mass." prepared by Wayland GIS, June 20, 2001.
- 3. Narrative description of structural and non-structural best management practice (BMP) (See "Definitions), controls for storm water management with the project **both during phases of construction and for long term site management:**
 - 3a. Evaluation of BMP selection and factors of site suitability including: soils, drainage area, depth to water table, depth to bedrock, slopes and proximity to wells and foundations
 - 3b. Discussion of construction phasing
 - 3c. Relevant site characterization data for design
 - 3d. Water quality calculations for total suspended solids (TSS) removal
 - 3e. Calculated storm water recharge rate
 - 3f. Calculated peak discharge rate
- 4. Maintenance requirements for BMPs must be specified. Operation and Maintenance (O&M) plans for Stormwater shall be submitted with the application describing short-term BMPs (during construction) and long-term BMPs (post-construction) for management of the drainage structures, roadway and/or parking lot (as applicable) including but not limited to sweeping; catch basin cleaning; snow storage and erosion controls, such as hay bales or sediment fences. The drainage components (Best Management Practice – BMP) shall be as described using terminology in the DEP Storm water Technical Handbook, March 1997.
- 5. Aquifer Protection District – If the project is within this area, a narrative description of how the project complies with aquifer protection requirements.

NA SEE WAIVER REQUEST

Soils Information

- 1. Septic Systems or Drainage BMPs (where applicable) - Clear statement of how many test pits or borings were conducted for the project planning and engineering evaluations and what number and types of analytical methods may have been applied for soils characterization including visual evaluation, percolation tests, field screening, and laboratory analyses.
- 2. Septic Systems and/or applicable drainage BMP - Copies of all soil data including boring and/or test pit logs.
- 3. Soil auger or test pit logs for delineation of wetland resources on the property.

**WAYLAND'S WETLANDS AND WATER RESOURCES BYLAW ("CHAPTER 194")
APPLICATION SUBMISSION REQUIREMENTS CHECKLIST
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Waivers

In the event that Applicant considers certain required information to be, in their opinion, not relevant to the scope or scale of the proposed project Applicant may request a Waiver of the requirements with this application to the Conservation Commission. Indicate all provisions requested for Waiver below designating the specific paragraph number/letter designation.

- Site Plan Minimum Requirement Waiver(s) None List SEE PROJECT SUMMARY
- Drainage Requirement Waiver(s) None List SEE PROJECT SUMMARY
- Soils Information Waiver(s) None List SEE PROJECT SUMMARY
- If applicable, attach a statement for justification of the requested waivers.

In the event that any requested Waiver is not granted by the Commission or the application is otherwise found to be deficient in providing required information the hearing may at the discretion of the Commission either be closed and denied for the lack of information or continued for a specific timeframe approved by the Commission for the Applicant to submit the required information.

The Commission has authorized its Staff personnel to review projects and to not accept project applications under the Bylaw that have apparent deficiencies to meeting the above requirements as a matter of avoiding lost time for the Commission, Applicants and other interested parties at the hearing. Notwithstanding that authority, acceptance of an application by the Staff does not represent a decision that the application is fully complete. In the event that Applicant considers the application fully complete over the objections of Staff the application will be accepted and Staff will report their findings to the Commission during the hearing.

The property owner, as well as the applicant and/or representative (if different from owner) must sign this checklist and all other applicable applications. The property owner, by signing this checklist and the applications, acknowledges that the Commission and Staff may enter the property to inspect the premises as part of the assessment of the application.

Francis X. Dougherty, Agent
Property Owner's Name (Print)

Francis X. Dougherty 3/16/11
Property Owner's Signature Date

I certify under penalty of law that this document and all its attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Jason Fittley, as representative
Applicant's Name (Print)

[Signature] 3/16/11
Applicant's Signature Date

Wayland Wetlands and Water Resources Bylaw, Chapter 194 Application

1. Applicant:

Raytheon Company (Attn: Louis Burkhardt)	louis.j.burkhardt@raytheon.com		
Name (PLEASE PRINT)	Email Address (if applicable)		
880 Technology Park Drive, T-3033	Billerica	MA	01821
Mailing Address	City/Town	State	Zip Code
(978) 436-8238			(978) 436-8560
Phone Number	Fax Number (if applicable)		

2. Representative:

Environmental Resources Management	Jason Flattery		
Firm/Business Name	Contact Name		
399 Boylston Street, 6th Floor	Boston	MA	02116
Mailing Address	City/Town	State	Zip Code
(617) 646-7816			(617) 267-6447
Phone Number	Fax Number (if applicable)		

3. Property Owner(s)

Frank Dougherty			
Property Owner (PLEASE PRINT)	Email Address (if applicable)		
10 Memorial Boulevard, Suite 901	Providence	RI	02903
Address	City/Town	State	Zip Code
(617) 378-9300			(617) 357-9990
Phone Number	Fax Number (if applicable)		

4. Type of Application

- | | |
|---|--|
| <input type="checkbox"/> Request for a Determination of Applicability (RDA) | <input checked="" type="checkbox"/> Notice of Intent (NOI) |
| <input type="checkbox"/> Abbreviated NOI | <input type="checkbox"/> Extension of O.O.C. |
| <input type="checkbox"/> Notice of Resource Area Delineation | <input type="checkbox"/> Certificate of Compliance |
| <input type="checkbox"/> After the Fact Amendment (AFA) | <input type="checkbox"/> After the Fact Filing (AFF) |
| <input type="checkbox"/> Amendment to Order of Conditions | |

5. Project

430 Boston Post Road.	23	23-52C and 23-52D
Location Address	Assessors Map(s)	Parcel(s)

Project Description (PLEASE PRINT): Limited Groundwater investigation via temporary points in the Buffer Zone. Also, an injection trench and injection wells will be constructed in the Buffer Zone to improve performance of the existing bioremediation system.

6. Title/Date of Plan(s)

Figure 1 - Site Locus Map (2/24/11); Figure 2 - Northern Area Layout (2/24/11); Figure 3 - IWIC Plan (2/24/11); Figure 4 - IWIC Details (2/24/11)

7. Bylaw Application Fee:

\$200.00 (NOI filing, with work <50' vw)

8. Application filed pursuant to MGL Chapter 131, Section 40 Yes No

9. Signature of Applicant

[Signature] Date 3-15-11

Signature of Property Owner

[Signature: Frank X Dougherty, Agent] Date 3/15/11

(NOTE: This application shall be signed by the property owner as well as the applicant. Signature of the property owner on this application shall be deemed permission granted to the Conservation Commission and their agents to go upon the subject property.)

*Project Summary and Waiver Request Statement
Bioremediation System Expansion
Former Raytheon Facility
Wayland, Massachusetts*

Project Summary 1 – Project Description

The project is comprised of a limited groundwater sampling program and expansion of the existing bioremediation system into the 100-Foot Buffer Zone to Bordering Vegetated Wetlands (BVW) at the Former Raytheon Facility at 430 Boston Post Road in Wayland, Massachusetts (Site, Figure 1). No work is proposed within BVW, Isolated Freshwater Wetlands, 100-year Floodplain, or the 200-foot Riverfront Area of the Sudbury River.

Response Actions at the Site are currently managed under Release Tracking Number 3-13302 in accordance with the Massachusetts Contingency Plan (310 CMR 40.000). A bioremediation recirculation system was installed in 2010 to mitigate volatile organic compound (VOC) impacts to groundwater. The initial performance monitoring program has shown encouraging results and indicated system expansion could further improve performance.

Innovative Engineering Solutions, Inc. of Walpole, Massachusetts (IESI) will oversee the expansion of the bioremediation system on behalf of Raytheon Company. ERM will provide Licensed Site Professional services. The existing system, located wholly outside of jurisdictional areas, operates by recirculating water from downgradient extraction wells to upgradient injection wells. Amendments such as carbon sources and nutrients are added to the water prior to injection. This recirculation improves mixing in the subsurface and optimizes the biological degradation of the VOCs.

Expanding the system to the most upgradient impacted area, located within the Buffer Zone, will enable more efficient treatment of the groundwater. IESI has designed an injection chamber well system (ICW) comprised of a shallow injection chamber and three injection wells. The ICW, as shown on Figures 2 and 3, will be approximately 60 feet long, 2-3 feet wide and will be installed approximately 3 feet below ground surface. The chamber, similar to the product used for leach fields, will be underlain by up to 5-10 feet of crushed stone depending upon local soil/groundwater impacts and working conditions. The proposed ICW is located within the 100-Foot Buffer Zone to BVW. In order to connect the ICW to the existing system, new piping will be run from the existing manifold near RIW-2 on Figure 2. This piping will be set 1.5 to 2 feet below

grade to improve the winter operation of the system. Soil displaced by the piping installation will be returned as backfill.

The final location of the ICW will be determined based on the results of limited groundwater sampling from the areas depicted on Figure 2. Discrete-depth groundwater samples will be collected using the Hydropunch™ sampling device or an equivalent method. This sampling system has been selected because it can be advanced to the desired depth using a tracked direct push rig and does not require construction of permanent sampling points, thereby limiting disturbance to the Buffer Zone. The samples collected will be submitted to a Massachusetts-certified laboratory for chlorinated VOCs analysis by U.S. Environmental Protection Agency (EPA) Method 8260B. These results will confirm the position of the ICW in the most upgradient area of impact.

Soil excavated during installation of the ICW will be stockpiled on plastic sheeting outside of all jurisdictional areas in accordance with MassDEP best management practices. Based on historical data, the top 6 feet of soil are expected to be unimpacted by VOCs. This material will be segregated from soil generated at deeper depths in order to minimize the amount of soil that will require off-site disposal. Samples will be collected from both the shallow and deep soils for laboratory analysis of chlorinated VOCs by EPA Method 8260B. These results will be compared to the applicable site closure standards of the MCP to determine the level of impact and the most appropriate disposal option. Soils that meet the site closure standards may be used to provide backfill, if necessary, around the ICW. If the soil cannot be reused on Site, it will be transported to a licensed disposal facility in accordance with state and federal regulations.

The existing solar panels powering the system and associated fencing may be relocated but will remain outside the Buffer Zone.

Use of the ICW will have no effect on the BVW based on the designed flow rates and historical groundwater flow data.

Project Summary 2 - Description of Wetland Resource Areas

The groundwater sampling activities and bioremediation system expansion will impact areas of the Site that lie within the 100-Foot Buffer Zone to BVW as shown on Figure 2. However, there is no need to enter or alter the adjacent BVW to complete the project.

The limits of BVW on Figure 2 were established as part of the Request for Certificate of Compliance filed for MassDEP File Number 322-0647 (ERM; 19 November 2009).

The extent of the 100-year floodplain (Zone AE) is based on Federal Emergency Management Agency Insurance Rate Maps.

Project Summary 3 – Minimization and Mitigation Measures

No work is proposed within BVW, Isolated Freshwater Wetlands, 100-year Floodplain, or the 200-foot Riverfront Area of the Sudbury River. The groundwater sampling program is intended optimize the placement of the ICW, thus minimizing disturbance to the Buffer Zone. The groundwater sampling program has been designed to minimize disturbance by utilizing a small, tracked direct push rig and temporary sampling points.

Additionally, the following best management practices will be employed to minimize disturbance to the Buffer Zone:

- Prior to the start of work, the adjacent BVW will be inspected to confirm flagging locations. These locations were staked and surveyed as part of the 2007 excavation project and subsequent wetland mitigation and monitoring activities. Locations will be re-staked if necessary;
- Disturbance to trees and grassy meadows will be minimized by using the existing unpaved roadways to access the work area. No cutting of woody vegetation is proposed as part of this project;
- Erosion control measures will be installed along the limit of work upgradient of BVW in the Buffer Zone. Erosion control measures will consist of staked straw bales with properly installed silt fence as shown in Figure 4. The erosion control measures will be inspected daily and, if necessary, repairs will be made during the same day they are identified;
- Plastic sheeting will be placed beneath equipment operating in the Buffer Zone and a spill kit will be maintained on Site near the work area;
- Refueling of equipment will be conducted on the paved parking lot south of the project area. No refueling will be conducted within the Buffer Zone or BVW;

- Prior to demobilizing from the site, ground conditions will be restored to approximate the pre-existing conditions. Restoration measures will include raking the impacted area, seeding it with a New England Conservation/Wildlife Seed Mix (or an equivalent), and applying straw mulch to prevent seed washout; and
- Staging excess soil outside the Buffer Zone on plastic sheeting. Straw bales or other means will be used to surround the stockpiles and they will remain covered with plastic sheeting except when active.

Project Summary 4 - Alternatives

No specific alternatives to this proposal are proposed. The location of the proposed bioremediation system expansion is the most effective location based on the review of historical groundwater data, the site conceptual model, and the limited groundwater sampling program to be conducted as part of the project.

Waiver Request Statement

Many of the checklist requirements are not applicable to this type of project, as it does not involve site grading activities or the creation of impervious surfaces. This application presents a site plan figure, although it does not present elevations since there will be no site grading activities. The Drainage Requirements and Soils Information checklist requirements are not applicable because the expansion of the bioremediation system will not alter or impact the drainage capacity of the area.

LETTER OF TRANSMITTAL

Environmental
Resources
Management



399 Boylston Street, 6th Floor
Boston, MA 02116
(617) 646-7800
(617) 267-6447 FAX

ERM

To: Brian Monahan
Wayland Town Building
41 Cochituate St
Wayland, MA 01778

Date: 16 March 2011
Project #: 0114119.04
Subject: NOI Filing Fee

Enclosed please find:

Copy of Reports (electronic) Proposal Professional Profiles
 Copy of Letter Graphics Other
 Solicitation for Pricing

Copies	Date of Information	Description
1	15 March 2011	Check # 057987 for \$537.50 - WPA NOI Filing Fee
1	15 March 2011	Check # 057988 for \$200.00 - Wayland Bylaw Fee

These are transmitted:

For your review Approved as submitted Resubmit copies for approval
 For your information Approved as noted Submit copies for distribution
 Per your request Returned for corrections Return corrected prints
 For your signature
 For bid due _____ Prints returned after loan to us

Message:

Please call me at (617) 617-7800 if you have any questions.

Copies To: File

Signed:

Jason Flattery, PE, Project Manager

VENDOR

CHECK NUMBER

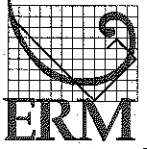
ERM Account Number:

PLEASE DETACH AND RETAIN FOR YOUR RECORDS

INVOICE NUMBER	DATE	VOUCHER NO.	AMOUNT
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TOTAL:

THIS DOCUMENT CONTAINS HEAT SENSITIVE INK. TOUCH OR PRESS RED LOGO NEAR SIGNATURE LINE. RED IMAGE DISAPPEARS WITH HEAT.



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116
(617) 646-7800



WACHOVIA
3-50
310

DATE: March 15, 2011
NO. 057987

PAY Five Hundred Thirty seven and ⁵⁰/₁₀₀ Dollars. \$ 537.50

TO THE ORDER OF: Town of Wayland
41 Cochituate Road
Wayland, MA 01778

Maura A. DeMarco

AUTHORIZED SIGNATURE

ORIGINAL CHECK IS PRINTED ON CHEMICAL REACTIVE PAPER WHICH CONTAINS A WATERMARK

⑈057987⑈ ⑆031000503⑆ 2000031445506⑈

ERM.

VENDOR

CHECK NUMBER

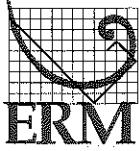
ERM. Account Number:

PLEASE DETACH AND RETAIN FOR YOUR RECORDS

INVOICE NUMBER	DATE	VOUCHER NO.	AMOUNT
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TOTAL:

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ERM
399 Boylston Street, 6th Floor
Boston, MA 02116
(617) 646-7800



WACHOVIA
3-50
310

DATE: March 15, 2011

NO. 057988

PAY Two Hundred and ⁰⁰/₁₀₀ Dollars

\$ 200.00

TO THE ORDER OF
Town of Wayland
41 Cochituate Road
Wayland, MA 01778

Maura A. O'Malley

AUTHORIZED SIGNATURE

ORIGINAL CHECK IS PRINTED ON CHEMICAL REACTIVE PAPER WHICH CONTAINS A WATERMARK

⑈057988⑈ ⑆031000503⑆ 2000031445506⑈

ERM.



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. Applicant:

Louis Burkhardt
 a. First Name b. Last Name
Raytheon Company
 c. Organization
880 Technology Park Drive, MS 3-3029
 d. Mailing Address
Billerica MA 01821
 e. City/Town f. State g. Zip Code
978-436-8238 978-436-8560 louis_j_burkhardt@raytheon.com
 h. Phone Number i. Fax Number j. Email Address

2. Property Owner (if different):

Frank Dougherty
 a. First Name b. Last Name
Twenty Wayland LLC % KGI Properties
 c. Organization
10 Memorial Boulevard, Suite 901
 d. Mailing Address
Providence RI 02903
 e. City/Town f. State g. Zip Code
617-357-9300 617-357-9990 f.dougherty@kgiproperties.com
 h. Phone Number i. Fax Number j. Email Address

3. Project Location:

430 Boston Post Road Wayland
 a. Street Address b. City/Town

B. Fees

The fee should be calculated using the following six-step process and 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
Hazardous Cleanup	1	\$1050	\$1050
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Step 5/Total Project Fee:			\$1050
Step 6/Fee Payments:			
Total Project Fee:			\$1050
State share of filing Fee:			\$512.50
City/Town share of filing Fee:			\$537.50
			a. Total Fee from Step 5
			b. 1/2 Total Fee less \$12.50
			c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

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

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

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

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

VENDOR

CHECK NUMBER

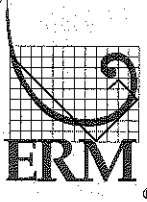
ERM. Account Number:

PLEASE DETACH AND RETAIN FOR YOUR RECORDS

INVOICE NUMBER	DATE	VOUCHER NO.	AMOUNT
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TOTAL:

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ERM
399 Boylston Street, 6th Floor
Boston, MA 02116
(617) 646-7800



WACHOVIA
3-50
310

DATE: March 15, 2011
NO. 057989

PAY Five Hundred Twelve and ⁵⁹/₁₀₀ Dollars \$ 512.50

TO THE
ORDER
OF

Commonwealth of Massachusetts
Dept. of Environmental Protection
Box 4062
Boston, MA 02211

Maria A. DeMarco

AUTHORIZED SIGNATURE

ORIGINAL CHECK IS PRINTED ON CHEMICAL REACTIVE PAPER WHICH CONTAINS A WATERMARK

⑈057989⑈ ⑆031000503⑆ 2000031445506⑈

ERM.

Appendix A
Abutter Notification Materials

**NOTICE OF INTENT
ABUTTER NOTIFICATION LETTER**

DATE: 16 March 2011

RE: Wayland Conservation Commission Public Hearing

To Whom It May Concern,

As an abutter of a proposed project, please be advised that a Request for Preliminary Determination under the Wayland Wetlands and Water Resources Bylaw, Chapter 194 Rules and Regulations has been filed with the Town of Wayland Conservation Commission.

APPLICANT: Raytheon Company

PROJECT ADDRESS OR LOCATION: 430 Boston Post Road

PROJECT DESCRIPTION: Expansion of the bioremediation system

APPLICANT'S AGENT: Environmental Resources Management
399 Boylston Street
Boston, MA 02116
(617) 646-7800

PUBLIC HEARING: Wayland Town Building
41 Cochituate Road
Wayland, MA 01778

DATE: 31 March 2011

TIME: Contact Commission for start time.

NOTE: You may consult a copy of the *Wayland Town Crier* or MetroWest Daily, or contact the Wayland Conservation Commission at (508) 358-3669 for information on the Public Hearing.

NOTE: Plans and application describing the proposed activity are on file with and can be obtained from the Wayland Conservation Commission at (508) 358-3669.

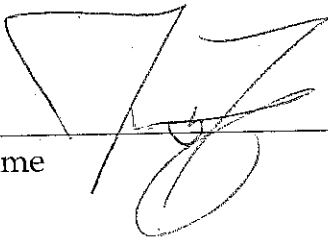
NOTE: You also may contact the Department of Environmental Protection, Northeast Regional Office for more information about this application or the Wetlands Protection Act at (978) 694-3200.

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetland Protection Act, I, Jason D. Flattery, hereby certify under pains and penalties of perjury that I will mail a "Notification to Abutters" in compliance with the second paragraph of the Massachusetts General Laws, Chapter 131, s. 40, the DEP Guide to Abutter Notification dated April 8, 1994 in connection with the following matter:

A Notice of Intent was filed under the Massachusetts Wetland Protection Act and Wayland Wetlands and Water Resources Bylaw with the Wayland Conservation Commission on March 16, 2011 for the property located at 430 Boston Post Road.

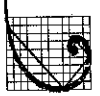
The Abutter Notification Letter is attached to this Affidavit of Service.


Name

3/16/11
Date

LETTER OF TRANSMITTAL

Environmental
Resources
Management



399 Boylston Street, 6th Floor
Boston, MA 02116
(617) 646-7800
(617) 267-6447 FAX

ERM

To: Savitri Ramgoolam
Town of Wayland Assessor's Office
41 Cochituate Road, Wayland, MA 01778

Date: 11 March 2011
Project #: 0114119
Subject: Abutters List Certification

Enclosed please find:

Copy of Reports (electronic) Proposal Professional Profiles
 Copy of Letter Graphics Other
 Solicitation for Pricing

Copies	Date of Information	Description
1	11-Mar-2011	Request for Certification of Abutters List

These are transmitted:

For your review Approved as submitted Resubmit copies for approval
 For your information Approved as noted Submit copies for distribution
 Per your request Returned for corrections Return corrected prints
 For your signature
 For bid due _____ Prints returned after loan to us

Message:

As you requested in your voicemail from today (11-Mar), I am mailing this request for certification of the abutter's list for Parcels 23-52C and 23-52D. Please call me at 617-447-0757 if you have any questions.

Copies To: File

Signed: _____

Jason D Flattery, PE, Project Manager



Town of Wayland
 41 COCHITUATE ROAD
 WAYLAND MASSACHUSETTS 01778
 www.wayland.ma.us TEL. 508-358-3788

OFFICE STAFF
 Ellen Brideau, MAA Assessing Director
 Bruce Morgan, Assistant Assessor
 Savitri Ramgoolam, Department Assistant

BOARD OF ASSESSORS
 Susan Rufo, Chairperson
 Jayson Brodie, Vice Chairman
 Bruce B. Cummings
 Zachariah Ventress

Please plan your submission accordingly the assessors office has 10 Business Days to Certify your request for abutters- Per MGL Ch. 66, S.10

Date of request 3/11/11 Telephone: 617 447 0757
 Address 399 Baylston St, 6TH Floor Boston, MA 02116
 Person requesting certification (PLEASE PRINT) JASON FLATTERY, ERM
 Signature [Signature]
 Name Of Applicant RATHEON COMPANY Louis Burkhardt
 Address 880 TECHNOLOGY PARK DRIVE, BILLERICA, MA 01821
 Location of Property 430 BOSTON POST ROAD
 Map Number 23 Parcel 52C & 52D Number of Abutters on list 21

***Please check with the Board/Commission for their guidelines, each Board/Commission has its own regulations for their abutters listing.

For use by Assessors

- The attached list has more than three errors - Please submit a corrected list
- The attached list is certified to be a correct listing of abutters for the described application, based on the most recent tax bill

This is to certify that at the time of the last assessment for taxation made by the Town of Wayland, the names and addresses are the assessed owners to these parcels.

Certified By: _____ Signature: _____
 CC: _____



Town of Wayland
41 COCHITUATE ROAD
WAYLAND MASSACHUSETTS 01778
www.wayland.ma.us TEL. 508-358-3788

OFFICE STAFF
Ellen Brideau, MMA Director of Assessing
Bruce Morgan, Assistant Assessor
Savitri Ramgoolam, Department Assistant

BOARD OF ASSESSORS
Susan Rufo, Chairperson
Jayson Brodie, Vice Chairperson
Bruce B. Cummings
Molly Upton
Zachariah Ventress

Date Received _____

NAME OF APPLICANT _____

SUBJECT PARCEL _____

This receipt verifies the Assessing Department has taken possession of your abutters list for certification as called for under Massachusetts General Laws, CH 66 Sec 10. The receipt **does not** constitute certification of the list, but merely that it was received.

The laws allows for certification in ten (10) business days from the date received. Lists are typically certified faster than that, but there is no guarantee. Please bear in mind that this certification process is only one of many responsibilities of the Assessing Department, and is not conducted throughout the business day on an on going basis. The applicant should plan their time frame with these laws and facts in mind.

Lists are certified in the order they are received.

The Assessing Department will contact you when the list is ready, or if there are errors that require a revised submission.

The Assessing Department is only certifying the owners as of the last tax billing.

Sincerely,

The Wayland Assessing Department

23-052 1307/ 76
TWENTY WAYLAND LLC
% KGI PROPERTIES
10 MEMORIAL BLVD STE 901
PROVIDENCE, RI 02903

23-020 19942/ 269
CONCORD OIL COMPANY, INC.
147 LOWELL RD.
CONCORD, MA 01742

23-023 31687/ 529
S-BNK WAYLAND LLC
C/O TRAMMELL CROW CO
PO BOX 14115
READING, PA 19612-4115

23-052D 32174/ 145
WAYLAND MEADOWS LIMITED P
% BRENDON HOMES INC
259 TURNPIKE RD-SUITE 101
SOUTHBOROUGH, MA 01772

23-057 1057/ 154
SUDBURY VALLEY TRUSTEES,
2 CLOCK TOWER PLACE STE 500
MAYNARD, MA 01754

22-010 41001/ 463
RAYTHEON COMPANY
%REAL ESTATE DEPARTMENT
870 WINTER ST
WALTHAM, MA 02451

23-018 7987/ 428
OSMOND RALPH S
OSMOND GRACE M
3 OLD FARM CIR
WAYLAND, MA 01778

23-015 10543/ 46
RUSSELL'S GREENHOUSES
& GARDEN CENTER INC
397 BOSTON POST RD
WAYLAND, MA 01778

23-021 44100/ 533
SONYA T STARMER TRUSTEE
334-338 BOSTON POST ROAD
25 ORCHARD RD
NATICK, MA 01760

23-026 24487/ 349
POISSON FRANCIS J TRUSTEE
WAYLAND POWER REALTY TRUS
300 BOSTON POST RD
WAYLAND, MA 01778

22-011 11072/ 320
UNITED STATES OF AMERICA
FISH & WILDLIFE SERVICES
300 WESTGATE CENTER DR
HADLEY, MA 01035-9589

23-052A 12770/ 255
TOWN OF WAYLAND
CONSERVATION
41 COCHITUATE ROAD
WAYLAND,, MA 01778

99-001 0/ 0
COMMONWEALTH OF MASS -- M
100 FIRST AVE
CHARLESTOWN NAVY YARD
BOSTON, MA 02129

23-052B 0/ 0
TOWN OF WAYLAND
WASTEWATER MANAGEMENT
41 COCHITUATE ROAD
WAYLAND, MA 01778

23-019 7987/ 428
OSMOND RALPH S
OSMOND GRACE M
3 OLD FARM CIR
WAYLAND, MA 01778

23-022 44100/ 533
SONYA T STARMER TRUSTEE
334-338 BOSTON POST ROAD
25 ORCHARD RD
NATICK, MA 01760

23-017 21286/ 257
SKEHAN TIMOTHY TRUSTEE
372 BOSTON POST ROAD TRUS
105 PELHAM ISLAND RD
WAYLAND, MA 01778

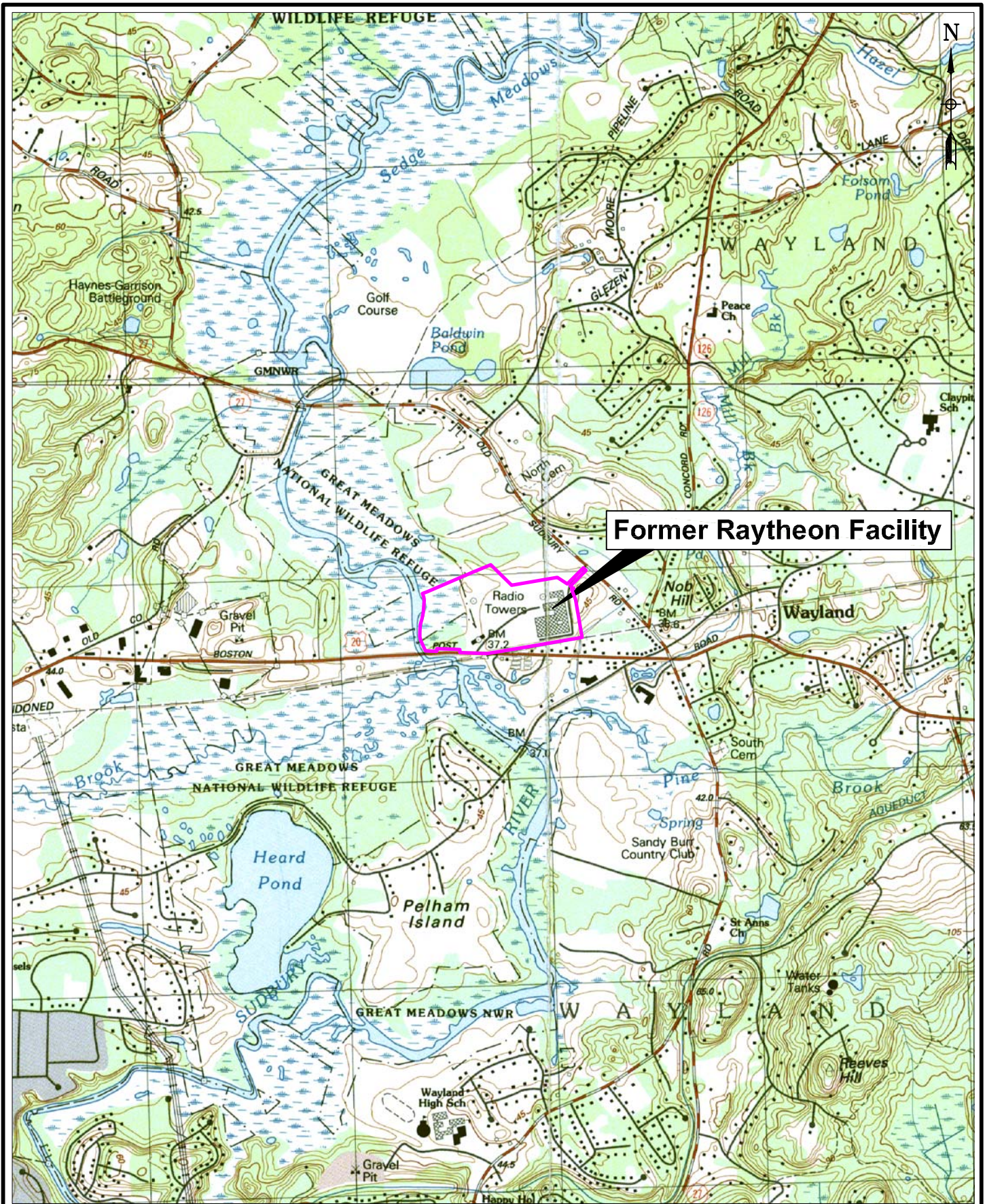
23-056 21642/ 252
SUDBURY VALLEY TRUSTEES
2 CLOCK TOWER PL
MAYNARD, MA 01754

22-001 8428/ 389
TOWN OF WAYLAND
DISPOSAL AREA
41 COCHITUATE RD
WAYLAND, MA 01778

23-052F 45981/ 177
TWENTY WAYLAND LLC
% KGI PROPERTIES
10 MEMORIAL DR STE 901
PROVIDENCE, RI 02903

23-016 10543/ 46
RUSSELLS GREENHOUSES &
GARDEN CENTER INC
397 BOSTON POST RD
WAYLAND, MA 01778

Appendix B
Figures



Former Raytheon Facility

Scale 1:25,000

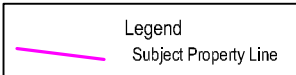
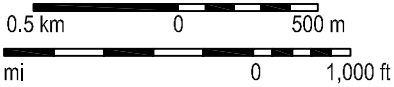
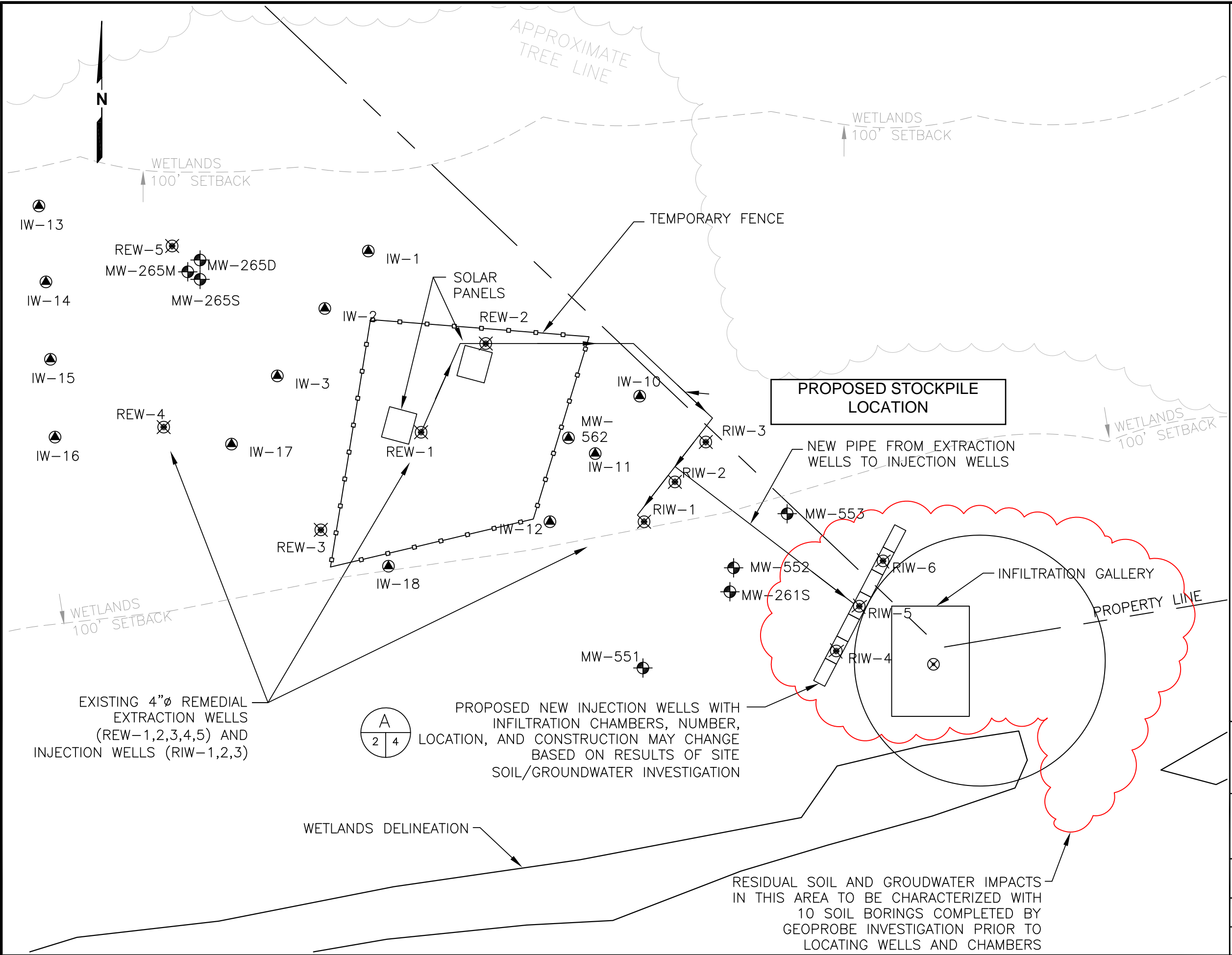


Figure 1 - Site Locus Map
Former Raytheon Facility - Wayland, MA





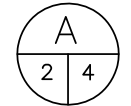
LEGEND

- MONITORING WELL / CLUSTER
- INJECTION WELL
- INJECTION WELL
- EXTRACTION WELL
- INFILTRATION GALLERY
- INJECTION SEGMENT
- EXTRACTION SEGMENT

BASE MAP SOURCE: "FIGURE 5A NORTHERN AREA CVOC CONCENTRATIONS - FEBRUARY 2010"; PREPARED BY ERM



EXISTING 4"Ø REMEDIAL EXTRACTION WELLS (REW-1,2,3,4,5) AND INJECTION WELLS (RIW-1,2,3)



PROPOSED NEW INJECTION WELLS WITH INFILTRATION CHAMBERS, NUMBER, LOCATION, AND CONSTRUCTION MAY CHANGE BASED ON RESULTS OF SITE SOIL/GROUNDWATER INVESTIGATION

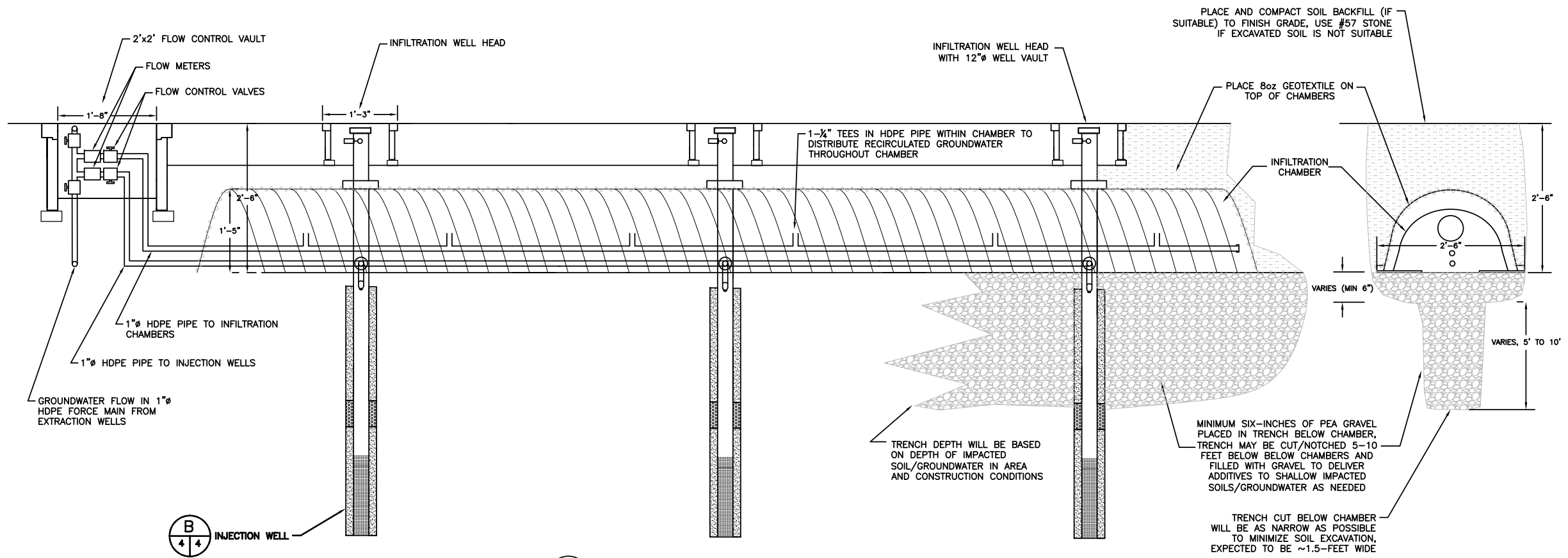
iesi Innovative Engineering Solutions, Inc.
25 SPRING STREET
WALPOLE, MASSACHUSETTS 02081
(508) 668-0033

TITLE
PROPOSED INJECTION WELL AND INFILTRATION CHAMBER PLAN

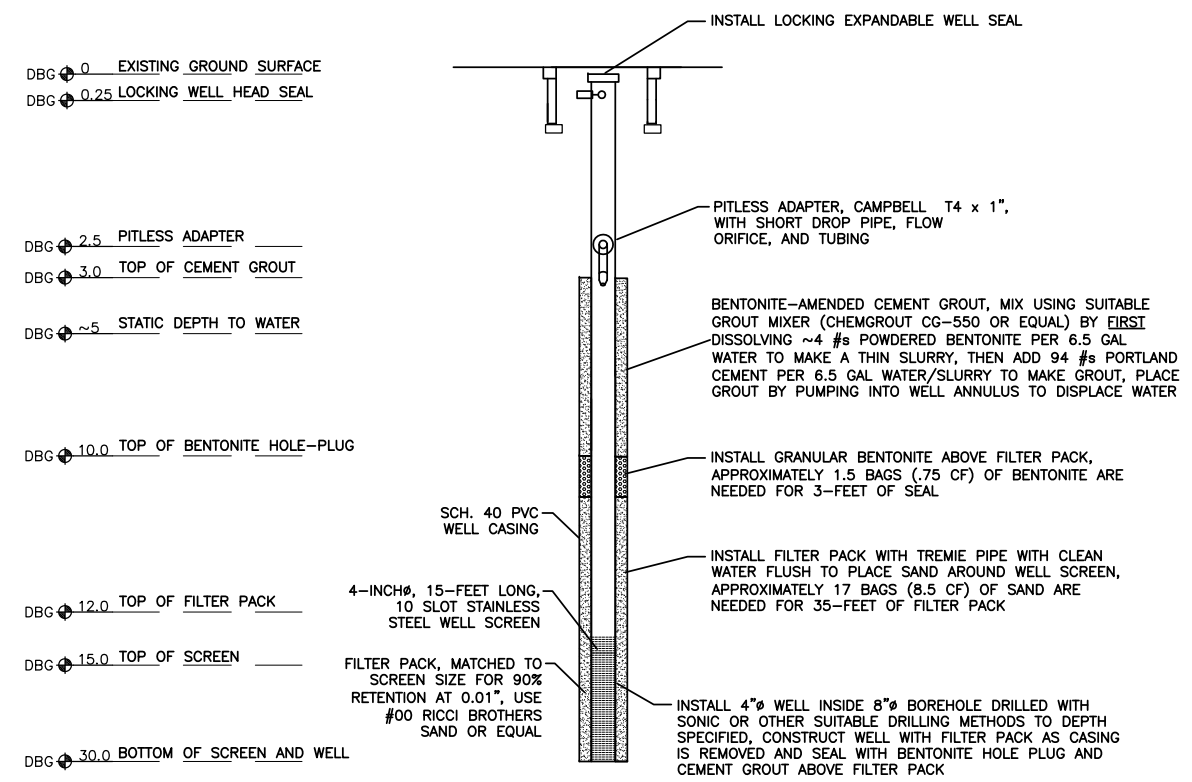
SITE
FORMER RAYTHEON FACILITY
WAYLAND, MASSACHUSETTS

CLIENT
RAYTHEON CORPORATION

DRAWN DF	CHECKED SAF	FILENAME RAYTHEON WAYLAND	DATE FEB 2011	FIGURE 2
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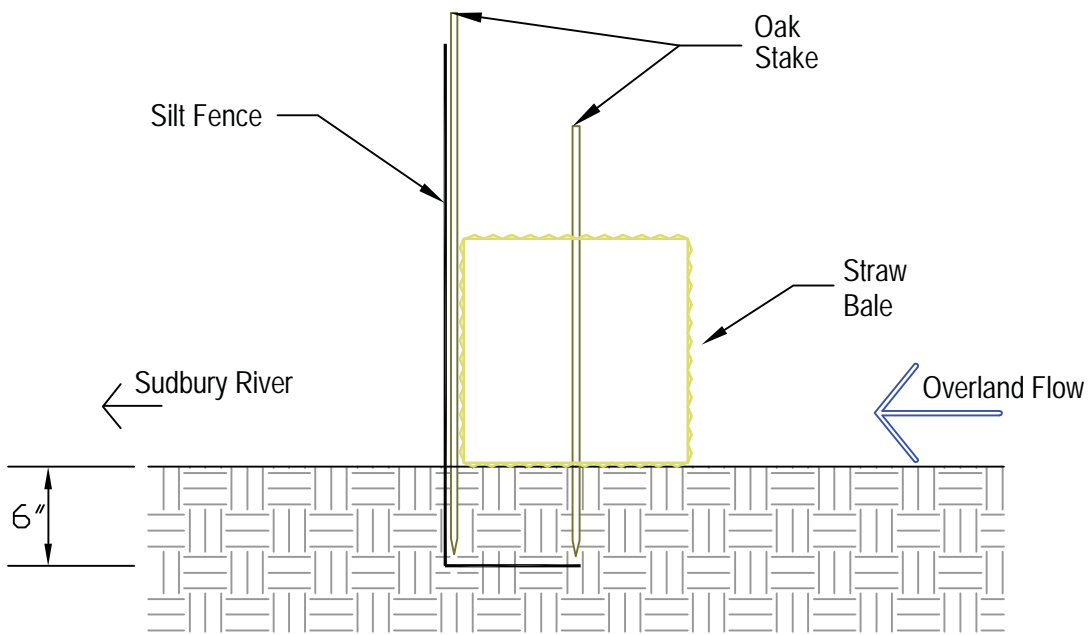
A INFILTRATION CHAMBERS AND WELL SYSTEM
2/4 (NOT TO SCALE)



B INJECTION WELL CONSTRUCTION
4/4 (TYPICAL OF 3, NOT TO SCALE)

- NOTES:
- 1) WELL AND INFILTRATION CHAMBER DEPTH AND CONSTRUCTION MAY CHANGE BASED ON THE RESULTS OF THE SOIL INVESTIGATION.
 - 2) GROUNDWATER IS RECIRCULATED CONTINUOUSLY, WITH ~75% GOING INTO THE THREE WELLS, AND ~25% INTO THE CHAMBERS, FLOW IS SPLIT AND CONTROLLED AT THE FLOW CONTROL VAULT.
 - 3) AMENDMENTS ARE ADDED ON A BATCH BASIS TO THE WELLS AND CHAMBERS.
 - 4) THE WELLS INJECT AMENDED AND RECIRCULATED GROUNDWATER INTO THE DEEP AQUIFER. THE CHAMBERS ALLOW FOR THE INFILTRATION OF AMENDMENTS AND GROUNDWATER THROUGH SHALLOW IMPACTED SOILS.
 - 5) THE DEPTH OF THE TRENCHES BELOW THE CHAMBERS MAY BE INCREASED TO TARGET SHALLOW IMPACTED SOILS AND GROUNDWATER. TRENCH CONSTRUCTION DEPTH MAY BE LIMITED, HOWEVER, BY SOIL STABILITY. GRAVEL (#57 STONE) WILL BE PLACED IN THE CUT TRENCH BELOW THE CHAMBERS TO ALLOW INFILTRATION OF AMENDMENTS TO THE IMPACTED SOILS.
 - 6) A HIGH-LEVEL SHUT-OFF FLOAT SWITCH IS INSTALLED TO SHUT DOWN THE WELL PUMPS IN THE CASE OF A HIGH WATER LEVEL TO PREVENT OVERFLOW.

		Innovative Engineering Solutions, Inc. 25 SPRING STREET WALPOLE, MASSACHUSETTS 02081 (508) 668-0033	
TITLE PROPOSED INJECTION WELL AND INFILTRATION CHAMBER DETAIL			
SITE FORMER RAYTHEON FACILITY WAYLAND, MASSACHUSETTS			
CLIENT RAYTHEON CORPORATION			
DRAWN DF	CHECKED SAF	FILENAME RAYTHEON WAYLAND	DATE FEB 2011
			FIGURE 3



TYP. BARRIER DETAIL

NOTE:

- 1) Erosion check to be bales of hay secured to the ground with two (2) 4'-long stakes for each bale.
- 2) Stakes to be imbedded to a depth of 1', spaced no more than 1.5' apart.

Scale = Not To Scale

Figure 4 - Erosion Control Measure Detail
Former Raytheon Facility, Wayland, MA



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