

29 June 2007  
ERM Reference: 0051545

Brian Monahan  
Conservation Administrator  
Wayland Conservation Commission  
Town Building  
Wayland, MA 01778



Re: Inspection Report #1  
25 Through 29 June 2007  
Former Raytheon Facility  
430 Boston Post Road  
DEP File No. 322-647

Dear Mr. Monahan:

In accordance with the Order of Conditions for Massachusetts Department of Environmental Protection (Department) File Number 322-647 dated 8 August 2006, Environmental Resources Management (ERM) is pleased to provide the Wayland Conservation Commission (Commission) with this Inspection Report for Northern Area Excavation activities at the Former Raytheon Facility at 430 Boston Post Road in Wayland, Massachusetts (the "Site").

Special Conditions 31 and 32 of the Town of Wayland Wetlands and Water Resources Permit Chapter 194 (Chapter 194) and Special Conditions 47 and 49 of Attachment A to the Wetlands Protection Act Form 5 Order of Conditions (WPA) require that a registered Professional Engineer perform weekly inspections of the work activities and certify in bi-weekly reports that those activities are in compliance with the Order of Conditions. The following information summarizes work performed between 25 and 29 June 2007.

***Work Performed During Period***

Project mobilization began on 25 June with a pre-construction meeting attended by representatives of ERM, Maxymillian Technologies, Hartman Engineering (Hartman), the Commission, and Raytheon Company. After a Site walk with the Commission to perform a final Site inspection, Maxymillian described the intended cofferdam installation

methods to the satisfaction of ERM and Hartman. This meeting fulfilled the requirements of WPA Condition 35 and Chapter 194 Condition 21.

Throughout the week several pieces of equipment were delivered to Site including office trailers, the components of the water treatment system (Appendix A, Photograph 1), generators, portable toilets (per Chapter 194 Condition 20), and storage containers. All equipment was set up outside the resource area.

On 26 June electricians were on Site to wire and ground a generator to the office trailers while Maxymillian trenched and set the silt fence as described in the updated figures supplied with the Response to Order of Conditions dated 4 June 2007. (Revisions of these figures were limited to additional silt fence and straw bales to protect the "wet pocket" identified during a Site walk with the Commission on 15 June 2006.)

Installation of the straw bales (Photographs 2 and 3) and silt sacks (Photograph 4) began on Wednesday, 27 June. The silt sacks were installed (in accordance with WPA Condition 33) in six catch basins in the vicinity of the soil stockpiling area and along the major route of travel between that area and the entrance on Route 20. Site inspections were conducted that morning by an ERM Certified Wetland Scientist (Ann McMenemy) and Professional Engineer (Alicia Kabir). A survey was also conducted on this day to locate the installed silt fence with the purpose of providing a stamped statement from a Professional Land Surveyor attesting to the correct layout of the sedimentation barriers and work within the buffer zone per WPA Condition 27. This certification is provided in Appendix D. (Notes: ERM has extended the straw bales and silt fence to fully encircle the wet pocket area in response to verbal approval from the Commission to relocate the clean-soil staging area outside and to the north of the resource area. The straw bales and silt fence were extended across the bordering wetland nearest to the cofferdam installation and excavation area).

The Commission returned on Thursday, 28 June to conduct the inspection of sedimentation controls as required by WPA Condition 32 and Chapter 194 Condition 15. The Site passed inspection and ERM received verbal approval to begin clearing the excavation areas.

Site clearing was completed on Friday, 29 June using a tractor-mounted brush mower (Photographs 5 and 6). Assembly of the water treatment system also began that day.

In addition to the major activities detailed above, several other tasks were completed as required by the Order of Conditions:

- Once installed, daily inspections of the sedimentation controls were performed. Records of these inspections are kept with the Daily Site Logs in Appendix B. Sufficient supplies of silt fence and straw bails are maintained on Site to allow for corrective action and maintenance activities per WPA Condition 50 and Chapter 194 Condition 42.
- Pre-construction photographs were taken in accordance with WPA Condition 37 and Chapter 194 Condition 23. These photographs are attached as Appendix C.
- Equipment is being refueled in accordance with the Refueling Plan provided in the Response to Order of Conditions and as stipulated in WPA Condition 39. Sufficient spill containment supplies are maintained at the refueling area and near each piece of heavy equipment.

***Items Not in Conformance with Order of Conditions During Period***

- During the Professional Engineer's inspection a length of silt fence near the excavation area was identified as not covering the extent of the wetland as depicted in the plans submitted to the Commission. Additional silt fence and straw bales were installed immediately after the inspection.
- The Conservation Administrator identified two areas of silt fence that were not properly trenched. These areas were quickly repaired using hand methods.

***Other Information***

- As mentioned above, the Daily Site Logs, in accordance with WPA Condition Number 26, for 25 June through 29 June 2007 are attached in Appendix B.

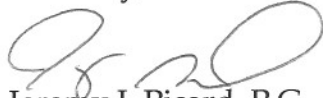
ERM will continue to comply with the Order of Conditions and will inform the Commission of any significant deviations of schedule or work plan.

Mr. Monahan  
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29 June 2007  
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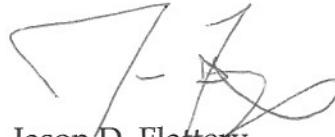
Environmental  
Resources  
Management

If you have any questions or comments please contact the undersigned at  
(617) 646-7800.

Sincerely,



Jeremy J. Picard, P.G.  
*Senior Project Manager*



Jason D. Flattery  
*Project Engineer*

Enclosures: Appendix A - Site Photographs  
Appendix B - Daily Site Logs 25-29 June 2007  
Appendix C - Pre-Construction Photographs  
Appendix D - Professional Land Surveyor Certification

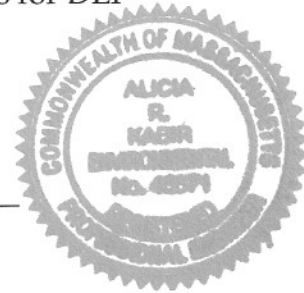
cc: Louis Burkhardt, Raytheon Company  
Public Repositories  
Ben Gould, CMG Environmental

As required by WPA Conditions 47 and 49 and Chapter 194 Conditions 31 and 32, I certify based on my observations during a Site visit on 27 June 2007 and conversations with ERM field representatives that, to the best of my knowledge, all work (except for any exceptions noted above) has been conducted in accordance with the Order of Conditions for DEP File Number 322-647.



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Alicia Kabir, P.E.  
*Professional Engineer*  
MA License #46671



*Appendix A*  
*Site Photographs*



Photograph 1 – Mobile Water Treatment System



Photograph 2 – Silt Fence with Straw Bales and Construction Fence





Photograph 3 – Silt Fence with Straw Bales and Construction Fence



Photograph 4 – Silt Sack on Catch Basin





Photograph 5 – Cleared Excavation Footprint Area



Photograph 6 – Cleared Excavation Footprint Area



*Appendix B*  
*Daily Site Logs 25-29 June 2007*

DAILY SITE LOG

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Date: 10/25/07

Start Time: 07:20

End Time: 16:00

Personnel

ERM: Jason Flattery John Drabinski John Kuhn  
Bahar Massinzadegan Rachel Leary  
Jeremy Picard Brian Mirsor

Other Personnel: Chris Jones (MT) Dick Hartman (HE)  
Tony Pisanelli (MT) Chris Burkhart (Raytheon)  
Brian Monahan (CC) Bill (MT) Dick + Zahin (laborers)  
*(Arrows point from Bill to Dick, and Dick to Zahin)*

Visitors: Yardi House Delivery  
Williams Scottman Delivery

Equipment On Site

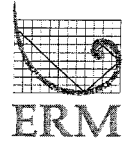
Type	Operating Company	Number
Tractor <sup>MT</sup> <u>Subota</u> <u>LAVER</u>	<u>Maxymillian #4</u>	<u>Model # L3710</u>
<u>"Ditch Witch" - gas powered trencher</u>	<u>Maxymillian</u>	

Describe Activities:

Meeting on-site with all personnel, site walk over. After meeting  
Porter Pottys are delivered and digging of trenches begins  
for installation of silt fences. ~350' silt fencing is installed and  
525' trenching completed. Tractors were delivered as well.  
\* Meeting served as a pre-construction meeting ordered by  
the conservation commission

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Are silt fence, hay bails and wooden stakes intact?

IN PROCESS OF INSTALLATION Yes

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

N/A

Please note any corrective actions taken.

\_\_\_\_\_  
\_\_\_\_\_

Field Supervisor Name (Printed):

JACOB FLATTERY

(Signature):

[Handwritten Signature]

DAILY SITE LOG

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Date: 6/26/07

Start Time: 06:15

End Time: 16:32

Personnel

ERM: Bahar Massihzadegan  
Jason Flattery

Other Personnel: Chris Jones (MT)  
Bill Synac (MT)  
Dick + Zahim (laborers)

Visitors: John Drobinski (ERM)  
Casello Electric workers (2) Justin + Paul Casello  
MT Delivery (Generators)  
Kimball Farm Delivery (Straw Bales)

Equipment On Site

Type	Operating Company	Number
Tractor <sup>Ⓚ</sup> Kubota LA681	Maxymillian #4	Model # L3710
<del>Diesel water pump generator</del>	<del>Maxymillian</del> <sup>Ⓚ</sup>	
Generator Whisper Watt	<sup>Ⓚ</sup> <del>ERM</del> Maxymillian #16	Unit # 10240
Generator/Lincoln 250	Maxymillian #29	Ranger 250

Describe Activities:

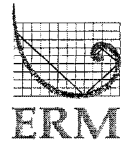
Silt fence installation is complete. Some large shrubs and other debris are removed for easier access for trucks as well as in preparation for construction fence installation. Casello Electric sets up large generator to connect to trailers. Straw bales were delivered to the site.

↑ OUTSIDE RESOURCE AREA.  
APPROVED BY BRIAN MONAHAN  
VERBALLY DURING  
SITE WALK THIS  
MORNING, 6/26

MT = Maxymillian Technologies

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Are silt fence, hay bails and wooden stakes intact?

PARTIALLY INSTALLED Yes

Have soils/sediment been deposited in any wetland areas?

No

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

No

If yes, please describe below.

Please note any corrective actions taken.

\_\_\_\_\_  
\_\_\_\_\_

Field Supervisor Name (Printed):

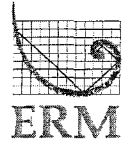
JASON FLATTERY

(Signature):

[Handwritten Signature]

DAILY SITE LOG

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Date: 6/27/07

Start Time: 06:13

End Time: 15:20

Personnel

ERM: Bahaar Massihzadegan  
Jasen Flattery

Other Personnel: Chris Jones (MT)  
Bill Syriac (MT)  
Dirt + Zabim (labors)

Visitors: Tony Pisanelli (MT) Alicia Kabir (ERM)  
Ann Mullenbary (ERM) John Drobinski (ERM)  
Charles Selles Surveyors - John + Jeff  
US Environmental Delivery (Dirt + monitors)

Equipment On Site

Type	Operating Company	Number
Tractor <sup>Kubota</sup> LA 661	Maxymillian #4	Model # L3710
<del>10 ton Viton - gas powered tractor</del>	<del>Maxymillian</del>	
Generator Whisper watt	ERM/Maxymillian #16	Unit #10240
Generator/ Lincoln 250	Maxymillian #29	Kemper 250
Fracturation Tanks (2)	Maxymillian - 21,000 gal AB20 + AB22	

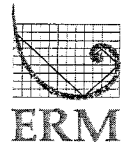
Describe Activities:

Begin straw bale installation. Surveyors surveyed locations of  
sedimentation controls. Ann + Alicia performed site inspections.  
Dirt + monitors were delivered. Construction fence and stakes  
were installed. Fracturation tanks (2) delivered to site.

MT = Maxymillian Technologies

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Are silt fence, hay bails and wooden stakes intact?

PARTIALLY INSTALLED  
Yes

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

Please note any corrective actions taken.

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Field Supervisor Name (Printed):

TACON FLEMING

(Signature):



DAILY SITE LOG

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Date: 6/28/07

Start Time: 06:13

End Time: 15:10

Personnel

ERM: Bahar Massinzadegan  
Tyson Platteraj  
Jeremy Picard

Other Personnel: Chris Jones (MT)  
Dick Bill Sydnal (MT)  
Bill & Zanna (LABORERS)

Visitors: John Drobinski (ERM)  
Brian Monahan & Roger Backman (Wayland ConComm)

Equipment On Site

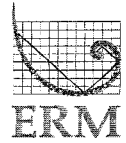
Type	Operating Company	Number
Tractor <sup>4</sup> / <sub>k</sub> Kubota L4601	Maxymillian #4	Model <del>L3710</del> L3710
Generator Whisper with	<del>Maxymillian</del> #10	Unit #10240
Generator/ Lincoln welder 250	Maxymillian #29	Ranger 250
Fracturation Tank "Adler"	Maxymillian ~ 21,000 gal (4)	AB20 + AB22 + A227 + A195
_____	_____	_____
_____	_____	_____
_____	_____	_____

Describe Activities:

FINISHED STRAW BALE INSTALL. BEGAN CLEARING COFFERDAM AREA  
WITH BRUSH HOGS. 2 ADDITIONAL 21,000 gal FRACS DELIVERED TO SITE.

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Are silt fence, hay bails and wooden stakes intact?

YES

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

N/A

Is there evidence of erosion along access road?

NO

If yes, please describe below.

Please note any corrective actions taken.

Field Supervisor Name (Printed):

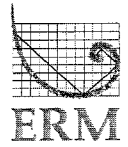
JASON FLATTERY

(Signature):

[Handwritten Signature]

DAILY SITE LOG

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Date: 6/29/07  
Start Time: 06:09

End Time: 14:10

Personnel

ERM: Bahar Massihzadege  
Jason Flattery

Other Personnel: Chris Jones (MT)  
Bill Syniac (MT), Scott (MT)  
Bill Zahim (LABORERS)

Visitors: Maxymillian Delivery (Mobile treatment system)  
Maxymillian Delivery (Cotton sacks + generator)  
John Dobinski (ERM) Jeremy Picard (ERM)  
Andy Magee (Erosion Associates)  
Katie (residents' meeting rep)

Equipment On Site

Type	Operating Company	Number
Tractor Kubota L4661	Maxymillian #4	Model # L3710
Generator Whisper Watt	Maxymillian #16	Unit # 10240
Generator/Lincoln 250	Maxymillian #29	Ranger 250
Fractionation Tanks 34k	Maxymillian ~21,000 gal (4)	AB20, AB22, A227, A195
Generator Whisper Watt	Maxymillian	
Mobile water treatment system	Maxymillian #45	

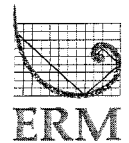
Describe Activities:

Continued clearing of cofferdam and access road areas. Assembly of water treatment system.

Maxymillian Technologies = MT

**EROSION AND SEDIMENTATION CONTROL INSPECTION**

Northern Area Excavation  
Former Raytheon Facility  
Wayland, Massachusetts



Are silt fence, hay bails and wooden stakes intact?

Yes \*

Have soils/sediment been deposited in any wetland areas?

NO

If yes, was it removed and how? Please describe below.

NA

Is there evidence of erosion along access road?

NO

If yes, please describe below.

NA

Please note any corrective actions taken.

Field Supervisor Name (Printed):

JASON FLATTERY

(Signature):

\* silt fence on wet pocket was removed in order to clear more land for excavation. actions were ~~approved~~ approved by Brian Monahan 6/26/07 of the Conservation Commission.

*Appendix C*  
*Pre-Construction Photographs*



Photograph 1 – Excavation Area: Facing North from Cart Path



Photograph 2 – Excavation Area: Facing Southeast from Cart Path





Photograph 3 – Facing West Towards Wet Pocket from Cart Path



Photograph 4 – Facing Southwest from Excavation Area Towards Wetland South of Cart Path





Photograph 5 – Eastern Extent of Resource Area Facing North



Photograph 6 – Facing East on Cart Path from Excavation Area





*Appendix D*  
*Professional Land Surveyor*  
*Certification*



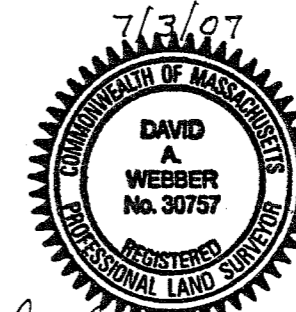
GRAPHIC SCALE



( IN FEET )  
1 inch = 60 ft.

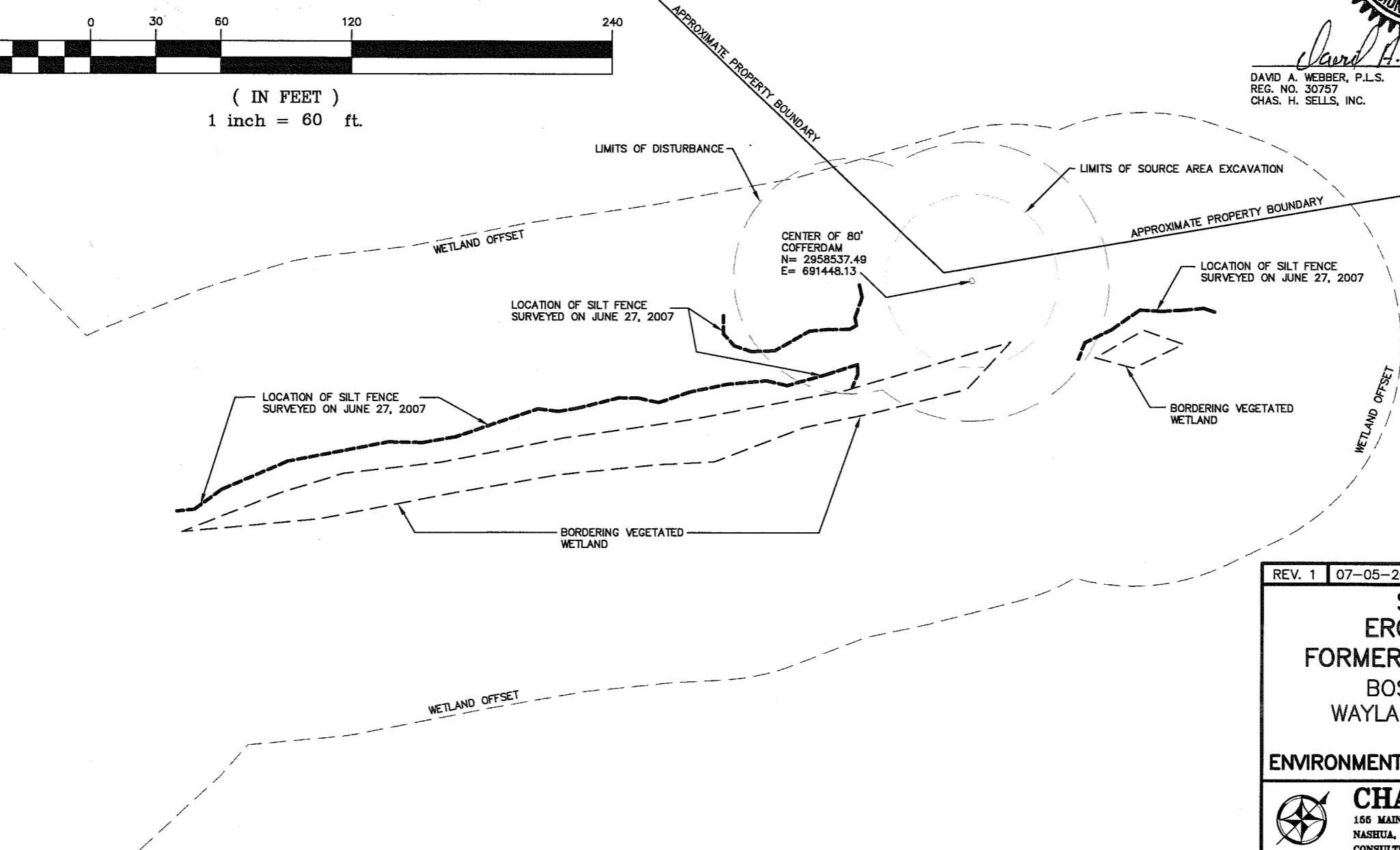
**CERTIFICATION:**

I HEREBY CERTIFY THAT THE SILT FENCE WAS LOCATED AS SHOWN HEREON ON JUNE 27, 2007 DURING A FIELD VISIT BY CHAS. H. SELLS, INC.



*David A. Webber*

DAVID A. WEBBER, P.L.S.  
REG. NO. 30757  
CHAS. H. SELLS, INC.



REV. 1 | 07-05-2007 | 2007 BORDERING VEGATED WETLANDS

**SKETCH PLAN  
EROSION CONTROL  
FORMER RAYTHEON FACILITY  
BOSTON POST ROAD  
WAYLAND, MASSACHUSETTS  
PREPARED FOR  
ENVIRONMENTAL RESOURCES MANAGEMENT**

**CHAS. H. SELLS, INC.**  
166 MAIN DUNSTABLE RD. SUITES 120 & 125  
NASHUA, NH 03080 (603) 595-7900  
CONSULTING ENGINEERS, SURVEYORS & PHOTOGRAMMETRISTS

Drawn By	DJH, ES	Date	JULY 3, 2007	Job No.	073076
Surveyed By	JB, JL	Checked By	DH, BH	Scale	1" = 60'
Book No.	N-173			Sheet No.	1 OF 1

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