Stamski and McNary, Inc.
Engineering - Planning – Surveying
1000 Main Street Acton, MA 01720 (978) 263-8585

Notice of Intent

Under the Massachusetts Wetland Protection Act,
G.L. c. 131, s. 40
and
Town of Acton Wetlands Protection Bylaw

for

Nonset Path
Map B4, Parcel 12
Including Easement Area Only on
Map B5, Parcels 25-7, 25-8, & 25-9
Acton, MA 01720

Applicant: Hawthorne Homes, LLC
530 Great Road
Acton, MA 01720

Owner: Blackstone Middlesex Realty Trust
Susan Smith, Trustee
1474 Butterfield Court
Marco Island, FL 34145

Date: January 26, 2011

SM-4627

Table of Contents

- Notice of Intent – WPA Form 3
- NOI Wetland Fee Transmittal Form
- Certified Abutters List / Affidavit / Notice to Abutters

Attachments:

A. Project Narrative

   1.) Neighborhood GIS Locus Map
   2.) Parcel 12 GIS Locus Map

B. U.S.G.S. Map

C. Massachusetts Natural Heritage Atlas 13th Edition, Effective: October 1, 2008

D. FEMA Flood Insurance Map

E. Copy of Deeds and Record Plans

F. Site Plan by Stamski and McNary, Inc. dated: January 26, 2011

Notice of Intent - WPA Form 3

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

Acton
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):

101 Nonset Path (vacant land) — a. Street Address
Acton — b. City/Town
01720 — c. Zip Code

Latitude and Longitude:
42°31'12" N — d. Latitude
71°25'35 W — e. Longitude

Map B4 — f. Assessors Map/Plat Number
Parcel 12 (Easement:Map B5:25-7, 25-8, & 25-9) — g. Parcel /Lot Number

2. Applicant:

Kirk — a. First Name
Ware — b. Last Name
Hawthorne Homes, LLC — c. Organization
530 Great Road — d. Street Address
Acton — e. City/Town
MA — f. State
01720 — g. Zip Code
978-263-1125 — h. Phone Number
978-263-7913 — i. Fax Number
tkware3@aol.com — j. Email Address

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

Susan — a. First Name
Smith — b. Last Name
Blackstone Middlesex Realty Trust — c. Organization
1474 Butterfield Court — d. Street Address
Marco Island — e. City/Town
FL — f. State
34145 — g. Zip Code
h. Phone Number
i. Fax Number
j. Email address

4. Representative (if any):

Richard J. — a. First Name
Harrington — b. Last Name
Stamski and McNary, Inc. — c. Company
1000 Main Street — d. Street Address
Acton — e. City/Town
MA — f. State
01720 — g. Zip Code
978-263-8585 x211 — h. Phone Number
978-263-9883 — i. Fax Number
rjh@stamskiandmcnary.com — j. Email address

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

$1450.00 (+$290.00 Bylaw) — a. Total Fee Paid
$712.50 — b. State Fee Paid
$737.50 (+$290.00 Bylaw) — c. City/Town Fee Paid

A. General Information (continued)

6. General Project Description:

The proposed project is to improve and extend an existing driveway within an abutting easement in the Buffer Zone of a BVW with a minor crossing over the wetlands with replication provided in order to provide private residential access to upland area on Parcel 12.

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:

the construction and maintenance of a new driveway of minimum legal and practical width acceptable to the planning board to provide access to upland area

8. Property recorded at the Registry of Deeds for:

Middlesex	
a. County	b. Certificate # (if registered land)
13640	99
c. Book	d. Page Number

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

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

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

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. ☐ Bank	1. linear feet	2. linear feet
b. ☒ Bordering Vegetated Wetland	1,759 1. square feet	1,827 2. square feet
c. ☐ Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

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	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. ☐ 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)	

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)

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	Indicate size under Land Under the Ocean, below	
b. ☐ Land Under the Ocean	1. square feet	
	2. cubic yards dredged	
c. ☐ Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. ☐ Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. ☐ Coastal Dunes	1. square feet	2. cubic yards dune nourishment

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

	Size of Proposed Alteration	Proposed Replacement (if any)
f. ☐ Coastal Banks	1. linear feet	
g. ☐ Rocky Intertidal Shores	1. square feet	
h. ☐ Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. ☐ Land Under Salt Ponds	1. square feet 2. cubic yards dredged	
j. ☐ Land Containing Shellfish	1. square feet	
k. ☐ 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. ☐ Land Subject to Coastal Storm Flowage	1. square feet	

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

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

5. ☐ Project Involves Stream Crossings

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

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/nhesp/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

October 1, 2008
b. Date of map

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/nhesp/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/nhesp/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

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* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/dfwele/dfw/nhesp/nhesp.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.

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:

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

North Shore - Hull to New Hampshire:

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

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 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

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.

Site Plan a. Plan Title	
Stamski and McNary, Inc. b. Prepared By	Joesph March c. Signed and Stamped by
January 26, 2011 d. Final Revision Date	1"=40' 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.

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

Acton
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:

102 AND 103 (BYLAW FEE)	1/25/11
2. Municipal Check Number	3. Check date
101	1/25/11
4. State Check Number	5. Check date
HAWTHORNE HOMES, LLC	
6. Payor name on check: First Name	7. Payor name on check: Last Name

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.

Hawthorne Hms, LLC By: Mgr + Member	1/24/11
1. Signature of Applicant	2. Date
Thomas E. George Agent for Trustee	1/24/11
3. Signature of Property Owner (if different)	4. Date
	1/26/11
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.

NOI Wetland Fee Transmittal Form

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:

Kirk	Ware
a. First Name	b. Last Name

Hawthorne Homes, LLC
c. Organization

530 Great Road
d. Mailing Address

Acton	MA	01720
e. City/Town	f. State	g. Zip Code

978-263-1125	978-263-7913	tkware3@aol.comd
h. Phone Number	i. Fax Number	j. Email Address

2. Property Owner (if different):

Susan	Smith
a. First Name	b. Last Name

Blackstone Middlesex Realty Trust
c. Organization

1474 Butterfield Court
d. Mailing Address

Marco Island	FL	34145
e. City/Town	f. State	g. Zip Code

h. Phone Number	i. Fax Number	j. Email Address

3. Project Location:

101 Nonset Path (vacant land)	Acton
a. Street Address	b. City/Town

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

B. Fees

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.

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
4a.) driveway crossing	1	$1450.00	$1450.00

Step 5/Total Project Fee: $1450.00

Step 6/Fee Payments:

Total Project Fee:	$1450.00 a. Total Fee from Step 5
State share of filing Fee:	$712.50 b. 1/2 Total Fee **less** $12.50
City/Town share of filling Fee:	$737.50 (+$290 Bylaw) 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.)

Certified Abutters List / Affidavit / Notice to Abutters

Town of Acton
472 Main Street
Acton, MA 01720
Telephone (978) 264-9622
Fax (978) 264-9630

Brian McMullen
Assistant Assessor

Locus: 107 NONSET PATH
Parcel ID: B5-25-7

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
109 NONSET PA	B5-25-8	KOMMINENI PRASAD R	KOMMINENI REKHA	109 NONSET PA	ACTON	MA	01720
108 NONSET PA	B5-25-4	PETERS ROBERT TRUSTEE	BLACKSTONE REALTY TRUST	1474 BUTTERFIELD CT	MARCO ISLAND	FL	34145
110 NONSET PA	B5-25-5	YAMANAKA MITSUYUKI	YAMANAKA MISUZU	110 NONSET PH	ACTON	MA	01720
111 NONSET PA	B5-25-9	MINGCHEN WU	CINDY WU	111 NONSET PA	ACTON	MA	01720
107 NONSET PA	B5-25-7	JIANG ZIPING	KE WEIHUA	107 NONSET PA	ACTON	MA	01720
102 NONSET PA	B5-25-3	NAGOG WOODS COMMUNITY CORP	VILLAGE OF NAGOG WOODS		ACTON	MA	01718
101 NONSET PA	B4-12	PETERS R TRUSTEE	BLACKSTONE REALTY TRUST	1474 BUTTERFIELD CT	MARCO ISLAND	MA	01720
25 HENLEY RD	B4-15	ELIZABETH KROL	MICHAEL KROL	25 HENLEY RD	ACTON	MA	01720
25 HENLEY RD BESIDE	B4-14-3	ELIZABETH KROL	MICHAEL KROL	25 HENLEY RD	ACTON	MA	01720
25 HENLEY RD BESIDE	B4-14-4	ELIZABETH KROL	MICHAEL KROL	25 HENLEY RD	ACTON	MA	01720
116 WATERSIDE CLR	B4-101-34	SMITH LINDA G		116 WATERSIDE CLR	ACTON	MA	01718
115 WATERSIDE CLR	B4-101-35	ZHENG JUN	BARBARA JANE REICHERT IRREVOCA	115 WATERSIDE CLR	ACTON	MA	01718
114 WATERSIDE CLR	B4-101-36	WEINSTEIN BERNARD ETUX		114 WATERSIDE CL	ACTON	MA	01718
113 WATERSIDE CLR	B4-101-37	ROSNER PETER		113 WATERSIDE CLRG	ACTON	MA	01718
112 WATERSIDE CLR	B4-101-38	GEORGE SUSAN M		112 WATERSIDE CLR	ACTON	MA	01718
111 WATERSIDE CLR	B4-101-39	JUBERT INA	BELACK CARL NELSON	111 WATERSIDE CLR	ACTON	MA	01720
110 WATERSIDE CLR	B4-101-40	CHEN JIANRONG		110 WATERSIDE CLR	ACTON	MA	01720
125 WATERSIDE CLR	B4-102-41	GABER BORIS		125 WATERSIDE CLR	ACTON	MA	01718
124 WATERSIDE CLR	B4-102-42	CROWELL DARRIN A		124 WATERSIDE CLR	ACTON	MA	01720
123 WATERSIDE CLR	B4-102-43	LIU JIAN WEI	FANG QIN	123 WATERSIDE CLR	ACTON	MA	01718
122 WATERSIDE CLR	B4-102-44	BOUKHGALTER BORIS E	BANSHCHIKOVA IRINA	122 WATERSIDE CIR	ACTON	MA	01718
121 WATERSIDE CLR	B4-102-45	LYTTLE JUDITH E		121 WATERSIDE CLRG	ACTON	MA	01718
120 WATERSIDE CLR	B4-102-46	WATRISS JAMES G	C/O FREDERIC WATRISS	60 WILLIAMS RD	CONCORD	MA	01742
130 BUTTERNUT HOLLOW	B4-103-1	YE BAOQING		130 BUTTERNUT HOLLOW	ACTON	MA	01718
131 BUTTERNUT HOLLOW	B4-103-2	BLOMGREN SHARON		131 BUTTERNUT HOLLOW	ACTON	MA	01718
132 BUTTERNUT HOLLOW	B4-103-3	MILLER NIELA		132 BUTTERNUT HOLLOW	ACTON	MA	01718
133 BUTTERNUT HOLLOW	B4-103-4	LEE TAESIK	ALICE H OH	133 BUTTERNUT HOLLOW	ACTON	MA	01718
134 BUTTERNUT HOLLOW	B4-103-5	VALENTE ELIZABETH M		134 BUTTERNUT HOLLOW	ACTON	MA	01718
135 BUTTERNUT HOLLOW	B4-103-6	HAN ZHIXIU		135 BUTTERNUT HOLLOW	ACTON	MA	01718
140 BUTTERNUT HOLLOW	B4-104-7	CHAKRAVARTHY RAJESH		8 ABEL JONES PL	ACTON	MA	01718

Locus: 107 NONSET PATH
Parcel ID: B5-25-7

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
141 BUTTERNUT HOLLOW	B4-104-8	REIFENSTEIN EDWARD C		141 BUTTERNUT HOLLOW	ACTON	MA	01718
142 BUTTERNUT HOLLOW	B4-104-9	MERRICK MARION A		16 THOREAU ROAD	ACTON	MA	01720
143 BUTTERNUT HOLLOW	B4-104-10	HOCHBERG YIGAL		143 BUTTERNUT HOLLOW	ACTON	MA	01720
144 BUTTERNUT HOLLOW	B4-104-11	STOKES THERESA E TRUSTEE	OLD STONEBROOK NOMINEE TRUST	131 SUDBURY RD	CONCORD	MA	01742
145 BUTTERNUT HOLLOW	B4-104-12	HAND BARRY J	HAND STEPHANIE W	145 BUTTERNUT HL	ACTON	MA	01718
146 BUTTERNUT HOLLOW	B4-104-13	OLIVA RICHARD F		146 BUTTERNUT HOLLOW	ACTON	MA	01718
147 BUTTERNUT HOLLOW	B4-104-14	DUDLEY PATRICIA J		147 BUTTERNUT HOL.	ACTON	MA	01718
150 BUTTERNUT HOLLOW	B4-105-15	HOLMANSKY EVGENY N	HOLMANSKY ELENA M	150 BUTTERNUT HL	ACTON	MA	01718
151 BUTTERNUT HOLLOW	B4-105-16	HALLIGAN TIMOTHY DR		14560 LATROBE DR	COLORADO SPRINGS	CO	38921
152 BUTTERNUT HOLLOW	B4-105-17	MARKMAN DMITRY		152 BUTTERNUT HOLLOW	ACTON	MA	01718
153 BUTTERNUT HOLLOW	B4-105-18	BEUST BEVERLY A		153 BUTTERNUT HOLLOW	ACTON	MA	01718
154 BUTTERNUT HOLLOW	B4-105-19	WALKER BURKE M	WALKER PATRICE K	154 BUTTERNUT HOLLOW	ACTON	MA	01720
165 SPLIT ROCK DR	B4-106-20	GORDON GEORGE E	GORDON AMY S	165 SPLIT ROCK DR	ACTON	MA	01718
164 SPLIT ROCK DR	B4-106-21	DAVIS BETH S		164 SPLIT ROCK DR	ACTON	MA	01718
163 SPLIT ROCK DR	B4-106-22	LANDRETH KAY MARILYNN TRUST	EE KML REALTY TRUST	163 SPLIT ROCK DR	ACTON	MA	01718
162 SPLIT ROCK DR	B4-106-23	MALLARD BARBARA E		162 SPLIT ROCK DR	ACTON	MA	01718
160 SPLIT ROCK DR	B4-106-24	REINHARDT MICHAEL R	REINHARDT ELIZABETH S	160 SPLIT ROCK DR	ACTON	MA	01718
161 SPLIT ROCK DR	B4-106-25	ONUSKA LINDA A		161 SPLIT ROCK DR.	ACTON	MA	01718
170 SPLIT ROCK DR	B4-107-26	ZHANG XIN	YE XIANYI	170 SPLIT ROCK DR	ACTON	MA	01718
171 SPLIT ROCK DR	B4-107-27	BRIGHT WILLIAM JR	BRIGHT ANN M	171 SPLIT ROCK DR	ACTON	MA	01718
172 SPLIT ROCK DR	B4-107-28	GOBLICK CAROLYN R		172 SPLIT ROCK DRIVE	ACTON	MA	01718
173 SPLIT ROCK DR	B4-107-29	LOMBARDO RICHARD V	LOMBARDO CAROLYN J	173 SPLIT ROCK DR.	ACTON	MA	01718
174 SPLIT ROCK DR	B4-107-30	BERGER SUSAN T		174 SPLIT ROCK DR	ACTON	MA	01718
175 SPLIT ROCK DR	B4-107-31	JUELS PHILIP I	JUELS KERRIE A	19 WHITETAIL WAY	LITTLETON	MA	01460
176 SPLIT ROCK DR	B4-107-32	LAI CHANNING J		176 SPLIT ROCK DR	ACTON	MA	01718
177 SPLIT ROCK DR	B4-107-33	HERBST DIANE		177 SPLIT ROCK DR	ACTON	MA	01718
616 OLD STONEBROOK	B4-108-47	COAN ROBERT M	FRACASSO GRACE M	616 OLD STONEBROOK	ACTON	MA	01718
615 OLD STONEBROOK	B4-108-48	RHEAUME MICHAEL J		615 OLD STONEBROOK	ACTON	MA	01718
614 OLD STONEBROOK	B4-108-49	ANDERSEN B SCOTT		614 OLD STONEBROOK	ACTON	MA	01720
613 OLD STONEBROOK	B4-108-50	ROSEN ANDREW J		613 OLD STONEBROOK	ACTON	MA	01718
612 OLD STONEBROOK	B4-108-51	CENTRELLA PAOLO A	NASUTI CATHERINE	612 OLD STONEBROOK	ACTON	MA	01718
611 OLD STONEBROOK	B4-108-52	LAFOLLETTE PHILIP A	GEER MARY ELLEN	611 OLD STONEBROOK	ACTON	MA	01718
667 PHEASANT HILL	B4-109-53	WOLF DAVID	WOLF JENNIFER	667 PHEASANT HILL	ACTON	MA	01720
665 PHEASANT HILL	B4-109-54	BLOOM STEVEN B	BLOOM TINA Y	665 PHEASANT HILL	ACTON	MA	01718
668 PHEASANT HILL	B4-109-55	TANG JINJIE		668 PHEASANT HILL	ACTON	MA	01720
663 PHEASANT HILL	B4-109-56	MORRISON PRISCILLA A	RODRIGUEZ DEANNA	663 PHEASANT HILL	ACTON	MA	01718
664 PHEASANT HILL	B4-109-57	CHEUNG ROBIN		664 PHEASANT HILL	ACTON	MA	01718
662 PHEASANT HILL	B4-109-58	PHILLIPS NATHAN D		229 FULLER STREET	NEWTON	MA	02465
661 PHEASANT HILL	B4-109-59	KONNIKOVA YEVGENYA	ZHOU HAIYAN	661 PHEASANT HILL	ACTON	MA	01720
648 PHEASANT HILL	B4-110-60	CROMPTON ELLEN M		648 PHEASANT HILL	ACTON	MA	01718
647 PHEASANT HILL	B4-110-61	KONG NING	WANG DONGMEI	647 PHEASANT HILL	ACTON	MA	01720

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646 PHEASANT HILL	B4-110-62	MINTZ LEON	MINTZ RITA	646 PHEASANT HILL	ACTON	MA	01718
645 PHEASANT HILL	B4-110-63	ABRAMSON ROBERT J	ABRAMSON CLAUDIA G	645 PHEASANT HILL	ACTON	MA	01720
644 PHEASANT HILL	B4-110-64	BRZOSKOWSKI RYSZARD	BRZOSKOWSKI MARIA J	644 PHEASANT HILL	ACTON	MA	01718
643 PHEASANT HILL	B4-110-65	ANGELL WILLIAM H	ANGELL DEANNE G	44 PRISCILLA MULLENS WY	CARVER	MA	02330
642 PHEASANT HILL	B4-110-66	FROLICK JAY H	FROLICK ROSALIE S	642 PHEASANT HILL	ACTON	MA	01718
641 PHEASANT HILL	B4-110-67	KOEHLER CHARLES	KOEHLER KAREN L	641 PHEASANT HILL	ACTON	MA	01718
625 PHEASANT HILL	B4-111-68	GRIESENBECK DONNA K	EDWARDS CHRISTOPHER G	625 PHEASANT HILL	ACTON	MA	01718
624 PHEASANT HILL	B4-111-69	DOWDY DARLENE M		624 PHEASANT HILL	ACTON	MA	01718
623 PHEASANT HILL	B4-111-70	COTE TIMOTHY E	KATZ-COTE HEATHER M	623 PHEASANT HILL	ACTON	MA	01720
622 PHEASANT HILL	B4-111-71	MOSS CAROLINE		622 PHEASANT HILL	ACTON	MA	01718
621 PHEASANT HILL	B4-111-72	BOGAEVSKY DIMITRIY	BOGAEVSKY TATYANA	621 PHEASANT HILL	ACTON	MA	01720
607 OLD STONEBROOK	B4-112-73	WATKINS MICHAEL D	WATKINS KAREN J (TALLARIDA)	607 OLD STONEBROOK	ACTON	MA	01720
605 PHEASANT HILL	B4-112-74	SOLON MARGARET D		605 PHEASANT HILL	ACTON	MA	01718
606 OLD STONEBROOK	B4-112-75	MISHRA KAVEESH		606 OLD STONEBROOK	ACTON	MA	01718
604 OLD STONEBROOK	B4-112-76	ZISCH WALDEMAR C		102 KRISTEN DRIVE EXTENSI	CHELMSFORD	MA	01824
603 OLD STONEBROOK	B4-112-77	LIU JING	ZHENG GULIAN	603 OLD STONEBROOK	ACTON	MA	01720
602 OLD STONEBROOK	B4-112-78	QUIST YVONNE	QUIST THEODORE ET AL	602 OLD STONEBROOK	ACTON	MA	01718
601 OLD STONEBROOK	B4-112-79	BENOWITZ MARTIN	PATRICIA	601 OLD STONEBROOK	ACTON	MA	01718
541 OLD STONEBROOK	B4-114-80	SCHILLING DONNA E		541 OLD STONEBROOK	ACTON	MA	01718
542 OLD STONEBROOK	B4-114-81	SIOTIA SANJEEV		83 DEERFOOT RD	SOUTHBOROUGH	MA	01772-
543 OLD STONEBROOK	B4-114-82	DESMOND ROBERT J	LORRAINE M	BOX 1593	NO FALMOUTH	MA	02556
544 GREAT ELM WY	B4-114-83	LALL SANJAY KUMAR	TYAGI MANISHA S	544 GREAT ELM WY	ACTON	MA	01720
545 GREAT ELM WY	B4-114-84	LUCY DORN		1077 EVERWILD VIEW	WEBSTER	NY	14580
546 GREAT ELM WY	B4-114-85	TIMLEGE CHARLOTTE H	TIMLEGE EDWARD C	546 GREAT ELM WAY	ACTON	MA	01718
547 GREAT ELM WY	B4-114-86	AMSTUTZ GALEN D	AMSTUTZ MARY E	547 GREAT ELM WY	ACTON	MA	01718
548 GREAT ELM WY	B4-114-87	FARIA FRANCISCO I	ANA C	548 GREAT ELM WAY	ACTON	MA	01718
549 GREAT ELM WY	B4-114-88	SHEN JANIE	SUAREZ XAVIER VELASCO	549 GREAT ELM WY	ACTON	MA	01718
539 OLD STONEBROOK	B4-115-89	TAROLA DANIEL P	TAROLA FAINA V	539 OLD STONEBROOK	ACTON	MA	01720
538 OLD STONEBROOK	B4-115-90	VAN MOURIK MARY DM		538 OLD STONEBROOK	ACTON	MA	01718
537 OLD STONEBROOK	B4-115-91	KLEIN DANIEL S	SHELLEY KASSMAN	537 OLD STONEBROOK	ACTON	MA	01718
536 OLD STONEBROOK	B4-115-92	ZHURAVLEV PAVEL	ZHURAVLOVA IRYNA	536 OLD STONEBROOK	ACTON	MA	01720
535 OLD STONEBROOK	B4-115-93	KUBIK GERALD H	KUBIK KAREN E	535 OLD STONEBROOK	ACTON	MA	01718
534 OLD STONEBROOK	B4-115-94	ADELMAN EDWARD H	ADELMAN MICHELE	534 OLD STONEBROOK	ACTON	MA	01718
533 OLD STONEBROOK	B4-115-95	COVEY KAREN		533 OLD STONEBROOK	ACTON	MA	01720
532 OLD STONEBROOK	B4-115-96	JOSEPH ALENCHERY LIZA		532 OLD STONEBROOK	ACTON	MA	01720
531 OLD STONEBROOK	B4-115-97	LOPES SALVATORE T		531 OLD STONEBROOK	ACTON	MA	01718
518 TUMBLING HAWK	B4-116-99	SANCETTA SCOTT R	TATTELMAN SHERYL	518 TUMBLING HAWK	ACTON	MA	01718
517 TUMBLING HAWK	B4-116-100	KINNIBURGH DAVID		517 TUMBLING HAWK	ACTON	MA	01718
516 TUMBLING HAWK	B4-116-101	GILFIX DAVID J	GILFIX SHARYN B	516 TUMBLING HAWK	ACTON	MA	01718
515 TUMBLING HAWK	B4-116-102	SUN JIANHUA	QUI SHUMEL	515 TUMBLING HAWK	ACTON	MA	01718
514 TUMBLING HAWK	B4-116-103	KVASOV ALEXEI G	TERENTYEVA OLGA Y	514 TUMBLING HAWK	ACTON	MA	01720

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Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
513 TUMBLING HAWK	B4-116-104	TAMARCHENKO JOSEPH	TAMARCHENKO INNA	513 TUMBLING HAWK	ACTON	MA	01718
512 TUMBLING HAWK	B4-116-105	RONG BING LAN		512 TUMBLING HAWK	ACTON	MA	01718
511 TUMBLING HAWK	B4-116-106	DE LUNA RENATO M	CROSS PIERA M.	511 TUMBLING HAWK	ACTON	MA	01720
577 GREAT ELM WY	B4-117-107	HARDING MARK E	HARDING SUZANNE J	577 GREAT ELM WY	ACTON	MA	01718
576 GREAT ELM WY	B4-117-108	LEVIN ISAAC	LEVIN NATASHA	576 GREAT ELM WY	ACTON	MA	01718
575 GREAT ELM WY	B4-117-109	BEAN BARBARA A		75 STOWECROFT RD	ARLINGTON	MA	02474
574 GREAT ELM WY	B4-117-110	CHUNG JEESEONG		96 BOWER TR	IRVINE	CA	92503-
573 GREAT ELM WY	B4-117-111	IAFRATE ANNETTE		573 GREAT ELM WAY	ACTON	MA	01718
572 GREAT ELM WY	B4-117-112	FOELLER CARL W JR		572 GREAT ELM WY	ACTON	MA	01718
571 GREAT ELM WY	B4-117-113	SHAH MAHULKUMAR	SHAH RUPA	25925 SPRING FARM CIRCLE	CHANTILLY	VA	20152
558 GREAT ELM WY	B4-118-114	TALEBI KAMRAN		558 GREAT ELM WY	ACTON	MA	01720
559 GREAT ELM WY	B4-118-115	DANIELLO SARAH D		559 GREAT ELM WY	ACTON	MA	01718
551 GREAT ELM WY	B4-118-116	GUPTA BEENU	GUPTA SANJAY	551 GREAT ELM WY	ACTON	MA	01720
552 GREAT ELM WY	B4-118-117	ZELTSER DIANA		552 GREAT ELM WY	ACTON	MA	01720
553 GREAT ELM WY	B4-118-118	WHITE BILLY M	PATRICIA P	3365 HAZELWOOD DR	ATLANTA	GA	30311
554 GREAT ELM WY	B4-118-119	YACOUBY RAY S	YACOUBY BARBARA S	554 GREAT ELM WY	ACTON	MA	01718
555 GREAT ELM WY	B4-118-120	FITZPATRICK ALICE F TRUSTEE	ALICE F FITZPATRICK REV TRUST	555 GREAT ELM WY	ACTON	MA	01720
556 GREAT ELM WY	B4-118-121	RUTMAN GRIGORY	RUTMAN IRINA	556 GREAT ELM WY	ACTON	MA	01720
557 GREAT ELM WY	B4-118-122	NAUTIYAL ATUL		557 GREAT ELM WY	ACTON	MA	01718
598 GREAT ELM WY	B4-119-123	GRIFFIN THOMAS W	GRIFFIN CATHY LAVOIE	598 GREAT ELM WY	ACTON	MA	01720
599 GREAT ELM WY	B4-119-124	FINN NOREEN D		599 GREAT ELM WY	ACTON	MA	01718
594 PINE CONE STRAND	B4-119-125	QUINN JOHN W ET AL	ABRAHAM ROBERT W+KRISTEN J	81 PLAINFIELD RD	CONCORD	MA	01742
593 PINE CONE STRAND	B4-119-126	DEOLIVEIRA GESIEL G	D OLIVEIRA WALMIRA	593 PINE CONE STRAND	ACTON	MA	01718
592 PINE CONE STRAND	B4-119-127	SATHAYE YASHODHAN	JAMBHEKAR KSHAMA	592 PINE CONE STRAND	ACTON	MA	01718
591 PINE CONE STRAND	B4-119-128	BENDER II C ROBERT		591 PINE CONE STRAND	ACTON	MA	01718
590 PINE CONE STRAND	B4-119-129	ARYASOMAYAJULA SUBRAHMANYAM	NOOKALA SRIDEVI	590 PINE CONE STRAND	ACTON	MA	01720
595 GREAT ELM WY	B4-119-130	VILLEGAS DIANA L		595 GREAT ELM WAY	ACTON	MA	01718
596 GREAT ELM WY	B4-119-131	HORTON RICHARD J	LIU SHITAO	596 GREAT ELM WY	ACTON	MA	01718
597 GREAT ELM WY	B4-119-132	ZEMLYANSKY NATALY		19 TUFFS RD	LEXINGTON	MA	02421
522 TUMBLING HAWK	B4-120-133	CAOUETTE FRANCES S		522 TUMBLING HAWK	ACTON	MA	01718
523 TUMBLING HAWK	B4-120-134	DUFOUR JEAN-LUC	LETENDRE SANDRINE	409 FOX DEN LANE	MILLERSVILLE	MD	21108
524 TUMBLING HAWK	B4-120-135	BAGLIO JO AN &	CHARLES F	524 TUMBLING HAWK	ACTON	MA	01718
525 TUMBLING HAWK	B4-120-136	OCONNOR CHRISTOPHER M	OCONNOR LISA M	525 TUMBLING HAWK	ACTON	MA	01720
526 TUMBLING HAWK	B4-120-137	KRISHNASWAMY SUNEEL	SUNEEL SOWMYA	523 ACORN PARK DR	ACTON	MA	01720
520 BANKSIDE HOLLOW	B4-120-138	AN HONG	ZHANG XIANGWEI	520 BANKSIDE HOLLOW	ACTON	MA	01718
521 BANKSIDE HOLLOW	B4-120-139	ZHANG YONG	LI WEN	521 BANKSIDE HOLLOW	ACTON	MA	01718
527 BANKSIDE HOLLOW	B4-120-140	BIGGS JOYCE C		527 BANKSIDE HOLLOW	ACTON	MA	01718
528 GREAT ELM WY	B4-120-141	SANDBERG JENNIE S		528 GREAT ELM WY	ACTON	MA	01718
529 GREAT ELM WY	B4-120-142	MA HEEKYEONG	LEE SUKWOO	529 GREAT ELM WY	ACTON	MA	01720
504 TUMBLING HAWK	B4-121-143	LEVIN OLEG	CHICHEVA TATYANA	504 TUMBLING HAWK	ACTON	MA	01720
505 TUMBLING HAWK	B4-121-144	RAO MITNALA R	RAO MITINALA PRAMILA	505 TUMBLING HAWK	ACTON	MA	01720

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501 TUMBLING HAWK	B4-121-145	ABRAMS IRWIN B & GER		501 TUMBLING HAWK	ACTON	MA	01718
502 TUMBLING HAWK	B4-121-146	HU YONGHAN	CAI SUWEN	502 TUMBLING HAWK	ACTON	MA	01720
503 TUMBLING HAWK	B4-121-147	COONEY WILLIAM J III TRUSTE	E POWER DEBORAH A TRUSTEE, POCO ACTON REALTY TRUST	959 CONCORD ROAD	CARLISLE	MA	01741
506 BANKSIDE HOLLOW	B4-121-148	KAPLAN-EARLE JOHN	KAPLAN-EARLE MARNI	506 BANKSIDE HOLLOW	ACTON	MA	01720
507 BANKSIDE HOLLOW	B4-121-149	ONEIL ELIZABETH , COUGHLIN	CAR COUGHLIN CHRISTOPER, COUGHLIN	507 BANKSIDE HOLLOW	ACTON	MA	01718
248 PINE CONE STRAND	B4-122-150	OLIVEIRA CLEBER M		248 PINE CONE STRAND	ACTON	MA	01718
249 PINE CONE STRAND	B4-122-151	GILBERT A BETHEL		249 PINE CONE STRND	ACTON	MA	01718
240 OLD BEAVERBROOK	B4-122-152	ORMSBY SHIRLEY A		240 OLD BEAVERBROOK	ACTON	MA	01718
241 OLD BEAVERBROOK	B4-122-153	SUMMERFELT ELGIN H	SUMMERFELT LORRAINE S	241 OLD BEAVERBROOK	ACTON	MA	01718
242 OLD BEAVERBROOK	B4-122-154	FLEMING H MARGO		242 OLD BEAVERBROOK ROAD	ACTON	MA	01718
243 PINE CONE STRAND	B4-122-155	LANDERS JOHN L		243 PINE CONE STRAND	ACTON	MA	01718
244 OLD BEAVERBROOK	B4-122-156	YERSHOV ALEXANDER	YERSHOV IRINA	244 OLD BEAVERBROOK ROAD	ACTON	MA	01718
245 PINE CONE STRAND	B4-122-157	SWEENEY MICHAEL G		245 PINE CONE STRAND	ACTON	MA	01718
246 PINE CONE STRAND	B4-122-158	YEE JANICE		246 PINE CONE STRAND	ACTON	MA	01718
247 PINE CONE STRAND	B4-122-159	TOMPKINS DAVID O & V		247 PINE CONE STRND	ACTON	MA	01718
231 OLD BEAVERBROOK	B4-123-160	CHERIFI SAADI	LAYAKOUBI BELAID	231 OLD BEAVERBROOK	ACTON	MA	01718
230 OLD BEAVERBROOK	B4-123-161	XU HONG	SUN YING	230 OLD BEAVERBROOK	ACTON	MA	01718
239 BROWN BEAR CRSG	B4-123-162	PRASAD DEVENDRA	PRASAD REETA	239 BROWN BEAR CRSG	ACTON	MA	01718
238 BROWN BEAR CRSG	B4-123-163	LABOSSIERE LISBETH		238 BROWN BEAR CRSG	ACTON	MA	01718
237 BROWN BEAR CRSG	B4-123-164	BEGGS MARA B		237 BROWN BEAR CRSG	ACTON	MA	01720
236 BROWN BEAR CRSG	B4-123-165	PATHAK SANDEEP M	PATHAK SMITA S	236 BROWN BEAR CRSG	ACTON	MA	01718
235 BROWN BEAR CRSG	B4-123-166	HALL CHARLES W	HALL MONICA L	235 BROWN BEAR CRSG	ACTON	MA	01718
234 BROWN BEAR CRSG	B4-123-167	YUAN WEI	WANG CHEN	11 FLAMINGO CIR	SHREWSBURY	MA	01545
233 OLD BEAVERBROOK	B4-123-168	PASSMAN SHIRLEY L	FURNACE PAMELA MAE	233 OLD BEAVERBROOK	ACTON	MA	01718
232 OLD BEAVERBROOK	B4-123-169	RAFUSE PAUL E	MARY ANN	20 JACKSON DR	ACTON	MA	01720
226 BANKSIDE HOLLOW	B4-124-170	FALCONE ANGELO	FALCONE RHONDA W	226 BANKSIDE HOLLOW	ACTON	MA	01720
225 BANKSIDE HOLLOW	B4-124-171	SAVEL NANCY E		225 BANKSIDE HOLLOW	ACTON	MA	01718
220 OLD BEAVERBROOK	B4-124-172	BROWN ARTHUR	LI GUANGYI	220 OLD BEAVERBROOK	ACTON	MA	01720
221 OLD BEAVERBROOK	B4-124-173	SHETTY JAYRAM T	SHETTY SHASHI	221 OLD BEAVERBROOK	ACTON	MA	01720
222 OLD BEAVERBROOK	B4-124-174	THANDAPANI SRINIVASAN	SRINIVASAN REVATHY	222 OLD BEAVERBROOK	ACTON	MA	01720
223 OLD BEAVERBROOK	B4-124-175	BECKMAN I WARREN		223 OLD BEAVERBROOK	ACTON	MA	01718
224 OLD BEAVERBROOK	B4-124-176	COATES TABOR W		224 OLD BEAVERBROOK	ACTON	MA	01718
229 BANKSIDE HOLLOW	B4-124-177	SASSON MIGUEL	DE FIGUEIREDO FERNANDA L	229 BANKSIDE HOLLOW	ACTON	MA	01718
228 BANKSIDE HOLLOW	B4-124-178	HODENPEL HUMPHREY J	HODENPEL SYLVIA Y	228 BANKSIDE HOLLOW	ACTON	MA	01718
227 BANKSIDE HOLLOW	B4-124-179	ANANTHANARANYANAN BHUVAN	BHUVAN PREETI R	227 BANKSIDE HOLLOW	ACTON	MA	01718
210 MEADOWS EDGE	B4-125-180	SHAKIR HASHIM	SHAKIR NAFISA	1002 SPRING VALLEY DRIVE	ANDOVER	MA	01810
211 MEADOWS EDGE	B4-125-181	TAYLOR PETER B		211 MEADOWS EDGE	ACTON	MA	01718
212 MEADOWS EDGE	B4-125-182	WILSON DAVID A		212 MEADOWS EDGE	ACTON	MA	01720
213 MEADOWS EDGE	B4-125-183	WILSON JOHN E JR		213 MEADOWS EDGE	ACTON	MA	01718
214 MEADOWS EDGE	B4-125-184	PINCUMBE DAVID L	SHIELDS PAMELA J	214 MEADOWS EDGE	ACTON	MA	01718

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Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
215 MEADOWS EDGE	B4-125-185	PRASAD ARUN	HEDGE SHILPA	215 MEADOWS EDGE	ACTON	MA	01718
216 MEADOWS EDGE	B4-125-186	YANG LIWEN		216 MEADOWS EDGE	ACTON	MA	01720
217 MEADOWS EDGE	B4-125-187	HUA WEI	LI BEI	217 MEADOWS EDGE	ACTON	MA	01718
257 BROWN BEAR CRSG	B4-126-188	DAY MARTHA P		257 BROWN BEAR CRSG	ACTON	MA	01720
256 BROWN BEAR CRSG	B4-126-189	LITZLER CAROL J	BURKE ROBERT	256 BROWN BEAR CRSG	ACTON	MA	01720
255 BROWN BEAR CRSG	B4-126-190	CARO KATHY L		255 BROWN BEAR CRSG	ACTON	MA	01720
254 BROWN BEAR CRSG	B4-126-191	VIITA MARIE E	C/O MARIE ELIZABETH GLYNN	413 VANDERVOORT AVE	BROOKLYN	NY	11222
253 BROWN BEAR CRSG	B4-126-192	RODGERS RICHARD M		253 BROWN BEAR CRSG	ACTON	MA	01718
252 BROWN BEAR CRSG	B4-126-193	ADELMAN HOWARD E	ADELMAN KARIN	90 BAY ST	KINSTON	ON	K7K1H8
251 BROWN BEAR CRSG	B4-126-194	MOUDGAL YOGANAND	SETLUN RAJASHREE	251 BROWN BEAR CRSG	ACTON	MA	01718
261 BROWN BEAR CRSG	B4-126-261	MAY ALBERT C	MAY BRENDA M	261 BROWN BEAR CRSG	ACTON	MA	01720
262 BROWN BEAR CRSG	B4-126-262	LIU HONGBING	REN YI	262 BROWN BEAR CRSG	ACTON	MA	01718
263 BROWN BEAR CRSG	B4-126-263	DERGACHEV ALEKSEI Y	POLIAKOVA INNA V	263 BROWN BEAR CRSG	ACTON	MA	01718
264 BROWN BEAR CRSG	B4-126-264	HSIUNG PAUL	HSIUNG JOAN L	40 RAINBOW RIDGE RD	POMONA	CA	91766
265 BROWN BEAR CRSG	B4-126-265	ROUGHSEDGE JOHN C	ROUGHSEDGE CHARRON A	265 BROWN BEAR CRSG	ACTON	MA	01718
266 BROWN BEAR CRSG	B4-126-266	LELIEVRE MARGARET A TRUSTEE	MARGARET A LELIEVRE REVOCABLE	266 BROWN BEAR CRSG	ACTON	MA	01720
201 MEADOWS EDGE	B4-127-195	WEST STEPHEN D	CATHERINE J CHASE	201 MEADOWS EDGE	ACTON	MA	01718
202 MEADOWS EDGE	B4-127-196	GREBERT KIMBERLY		202 MEADOWS EDGE	ACTON	MA	01720
203 MEADOWS EDGE	B4-127-197	JOHNSON DAVID C		203 MEADOWS EDGE	ACTON	MA	01718
204 MEADOWS EDGE	B4-127-198	MUIR RUTH PETTEYS, TR	C/O KEELER BARBARA	33 QUABOAG RD	ACTON	MA	01720
205 MEADOWS EDGE	B4-127-199	DORAN MARY E		205 MEADOWS EDGE	ACTON	MA	01720
206 MEADOWS EDGE	B4-127-200	ENGLISH JEAN		206 MEADOWS EDGE	ACTON	MA	01718
207 MEADOWS EDGE	B4-127-201	GUERRA LUZ MARIA		207 MEADOWS EDGE	ACTON	MA	01718
271 BROWN BEAR CRSG	B4-127-271	WETZELL ROLF + GERALDINE TR	UST 271 BROWN BEAR CROSSING REALTY	271 BROWN BEAR CRSG	ACTON	MA	01720
272 BROWN BEAR CRSG	B4-127-272	MOON MYUNGJIN	MOON YOODONG	272 BROWN BEAR CRSG	ACTON	MA	01718
273 BROWN BEAR CRSG	B4-127-273	CLASEN MATTHIAS	CLASEN SABINE	273 BROWN BEAR CRSG	ACTON	MA	01718
274 BROWN BEAR CRSG	B4-127-274	YOUNG MATTHEW J	SHERIDAN VALERY L	274 BROWN BEAR CRSG	ACTON	MA	01718
275 BROWN BEAR CRSG	B4-127-275	LIERAS EVE JACQUELINE TRUST	EE THE EVE JACQUELINE LIERAS GS T	11152 TOYON HILL DR	LAKESIDE	CA	92040
281 BROWN BEAR CRSG	B4-128-281	ROEHR KAREN E		281 BROWN BEAR CRSG	ACTON	MA	01718
282 BROWN BEAR CRSG	B4-128-282	HAN LIANG		282 BROWN BEAR CRSG	ACTON	MA	01718
283 BROWN BEAR CRSG	B4-128-283	MURALIDHAR KRISHNAMURTHY	PADMANABHARAO RASHMI	283 BROWN BEAR CRSG	ACTON	MA	01720
284 BROWN BEAR CRSG	B4-128-284	MILLER CONNIE L		284 BROWN BEAR CRSG	ACTON	MA	01718
291 OLD BEAVERBROOK	B4-129-291	EPSTEIN HELEN		16260 NORTH 71ST ST	SCOTTSDALE	AZ	85254
291 OLD BEAVERBROOK	B4-129-291	EPSTEIN HELEN		291 OLD BEAVERBROOK	ACTON	MA	01720
292 OLD BEAVERBROOK	B4-129-292	KWON PAULA		292 OLD BEAVERBROOK	ACTON	MA	01718
293 OLD BEAVERBROOK	B4-129-293	VICENS MARIA D		293 OLD BEAVERBROOK	ACTON	MA	01720
294 OLD BEAVERBROOK	B4-129-294	SIVAPATHAM HARIPPRIYA M	RADHAKRISHNAN RAJU	294 OLD BEAVERBROOK	ACTON	MA	01718
295 OLD BEAVERBROOK	B4-129-295	DOVNAR OLGA		295 OLD BEAVERBROOK	ACTON	MA	01718
296 BROWN BEAR CRSG	B4-129-296	HEFFERNAN JANET L/E	HORVATH JENNIFER A	296 BROWN BEAR CRSG	ACTON	MA	01718
297 BROWN BEAR CRSG	B4-129-297	FARRILL JACKSON J ET	JACKSON J FARRILL TRUST, PAMELA B FARRILL TRUST	16 CAPTAIN FORBUSH LANE	ACTON	MA	01720

Locus: 107 NONSET PATH
Parcel ID: B5-25-7

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
301 OLD BEAVERBROOK	B4-130-301	KINGMAN BRADFORD S	KINGMAN CHRISTINE M	301 OLD BEAVERBROOK	ACTON	MA	01718
302 OLD BEAVERBROOK	B4-130-302	KUO SHIHHAU		302 OLD BEAVERBROOK	ACTON	MA	01720
303 OLD BEAVERBROOK	B4-130-303	MILLIGAN CHRISTOPHER R	MILLIGAN CAROLYN W	303 OLD BEAVERBROOK	ACTON	MA	01720
304 OLD BEAVERBROOK	B4-130-304	BONDAR ANDREY	KRYS BELLA	304 OLD BEAVERBROOK	ACTON	MA	01718
305 OLD BEAVERBROOK	B4-130-305	SCICCHITANI NANCY		305 OLD BEAVERBROOK	ACTON	MA	01720
306 OLD STONEBROOK	B4-130-306	ALFARO CORDELIA A		306 OLD STONEBROOK	ACTON	MA	01718
307 OLD STONEBROOK	B4-130-307	HORNER JAMES K		307 OLD STONEBROOK	ACTON	MA	01718
371 OLD BEAVERBROOK	B4-137-371	BUONO JOHN A	BUONO MELISSA C	371 OLD BEAVERBROOK	ACTON	MA	01720
372 OLD BEAVERBROOK	B4-137-372	DIBERNARDO VINCENZO	DIBERNARDO WANDA L	372 OLD BEAVERBROOK	ACTON	MA	01720
373 OLD BEAVERBROOK	B4-137-373	LARRATT LINDA M		373 OLD BEAVERBROOK	ACTON	MA	01718
374 OLD BEAVERBROOK	B4-137-374	PAQUIN ROBERT L		374 OLD BEAVERBROOK	ACTON	MA	01718
375 OLD BEAVERBROOK	B4-137-375	MLEZIVA SARAH		375 OLD BEAVERBROOK	ACTON	MA	01718
376 OLD BEAVERBROOK	B4-137-376	STAROSELSKY ILYA		376 OLD BEAVERBROOK	ACTON	MA	01720
377 OLD BEAVERBROOK	B4-137-377	LI ZHAOQIANG	HAN JING	377 OLD BEAVERBROOK	ACTON	MA	01718
378 OLD BEAVERBROOK	B4-137-378	PILMAN MICHAEL G	PILMAN MONICA C	378 OLD BEAVERBROOK	ACTON	MA	01718
381 OLD BEAVERBROOK	B4-138-381	MANDLOI AMIT	ARCHANA BARRY	381 OLD BEAVERBROOK	ACTON	MA	01720
382 OLD BEAVERBROOK	B4-138-382	GYIMESI BALINT	GRONAS BEATRIX GYIMESINE	85 SWANTON ST	WINCHESTER	MA	01890-
383 OLD BEAVERBROOK	B4-138-383	PODLUZHNAYA NADEZHDA O	PODLUZHNAYA VYACHESLAV	383 OLD BEAVERBROOK	ACTON	MA	01718
384 OLD BEAVERBROOK	B4-138-384	HUANG MING-CHIA	HUANG SHU-FEN	384 OLD BEAVERBROOK	ACTON	MA	01718
385 OLD BEAVERBROOK	B4-138-385	ROYCE CHRISTINE M		385 OLD BEAVERBROOK	ACTON	MA	01718
386 OLD BEAVERBROOK	B4-138-386	COSTELLO CORRINE		26 OCEAN PINES DRIVE	SAGAMORE BEACH	MA	02562
391 PINE CONE STRAND	B4-139-391	POLSHIN MAKSIM	POLSHINA OLENA	391 PINE CONE STRAND	ACTON	MA	01718
392 PINE CONE STRAND	B4-139-392	VEMBUSUBRAMANIAN MUTHUSAMY	VEMBUSUBRAMANIAN BALA	392 PINE CONE STRAND	ACTON	MA	01720
393 PINE CONE STRAND	B4-139-393	WILHELM SCOTT R	WILHELM CHRISTINE E	393 PINE CONE STRAND	ACTON	MA	01718
394 PINE CONE STRAND	B4-139-394	DZURAK EWA	DZURAK TOMASZ P	394 PINE CONE STRAND	ACTON	MA	01718
395 PINE CONE STRAND	B4-139-395	STELLING DANIELLE M		395 PINE CONE STRAND	ACTON	MA	01718
396 PINE CONE STRAND	B4-139-396	MAKSIMCHUK GEORGE	PHILIPPOVA JULIA	396 PINE CONE STRAND	ACTON	MA	01718
397 PINE CONE STRAND	B4-139-397	JENKINS GARY W		397 PINE CONE STRAND	ACTON	MA	01718
398 PINE CONE STRAND	B4-139-398	GAETA MARK M	GAETA JENNIFER S	398 PINE CONE STRAND	ACTON	MA	01718
401 GREAT ELM WY	B4-140-401	KRIEGER MICHAEL A		401 GREAT ELM WY	ACTON	MA	01718
402 GREAT ELM WY	B4-140-402	FERRIERO BRENDA L		402 GREAT ELM WAY	ACTON	MA	01718
403 GREAT ELM WY	B4-140-403	VISSAPRAGADA VENKATA K	VISSAPRAGADA SAILAJA	403 GREAT ELM WY	ACTON	MA	01720
404 GREAT ELM WY	B4-140-404	WOLFE CYNTHIA L		404 GREAT ELM WY	ACTON	MA	01718
405 GREAT ELM WY	B4-140-405	HSIEH CHING TZONG	HSIEH PAY-LING L	405 GREAT ELM WY	ACTON	MA	01718
406 GREAT ELM WY	B4-140-406	BADAEV YUNONA V	BADAEV SERGEY V	406 GREAT ELM WY	ACTON	MA	01718
407 GREAT ELM WY	B4-140-407	FINKEL REINHARDT MELISSA		407 GREAT ELM WY	ACTON	MA	01720
408 GREAT ELM WY	B4-140-408	PEMBERTON ANNE D		408 GREAT ELM WAY	ACTON	MA	01718
421 GREAT ELM WY	B4-142-421	CHANG QINLIN		421 GREAT ELM WY	ACTON	MA	01718
422 GREAT ELM WY	B4-142-422	AVERY SUZANNE P		422 GREAT ELM WY	ACTON	MA	01718
423 GREAT ELM WY	B4-142-423	VAN SAVAGE KIMBERLY MULLIN		423 GREAT ELM WY	ACTON	MA	01720
424 GREAT ELM WY	B4-142-424	DIAMOND STANLEY M	DIAMOND DEBORAH	424 GREAT ELM WAY	ACTON	MA	01718

Locus: 107 NONSET PATH
Parcel ID: B5-25-7

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
425 GREAT ELM WY	B4-142-425	GANGOLLI ESHA A		425 GREAT ELM WY	ACTON	MA	01720
426 GREAT ELM WY	B4-142-426	HERLIHY MAURA A		426 GREAT ELM WY	ACTON	MA	01718
431 GREAT ELM WY	B4-143-431	POTTER JEREMY T	LEVY ELYSE J	431 GREAT ELM WY	ACTON	MA	01720
432 GREAT ELM WY	B4-143-432	KNOWLTON ROBERT	KNOWLTON JUDITH	432 GREAT ELM WY	ACTON	MA	01718
433 GREAT ELM WY	B4-143-433	JAMIESON KATHLEEN C		433 GREAT ELM WAY	ACTON	MA	01718
434 OLD STONEBROOK	B4-143-434	STEPHENSON MICHAEL L	FINN KATHLEEN	434 OLD STONEBROOK	ACTON	MA	01718
435 OLD STONEBROOK	B4-143-435	BARAN STEPHEN	BARAN BERNICE	435 OLD STONEBROOK	ACTON	MA	01718
436 OLD STONEBROOK	B4-143-436	BERRY TERESA ANN TRUSTEE	SHMIDT LYUBOV	436 OLD STONEBROOK	ACTON	MA	01720
441 GREAT ELM WY	B4-144-441	NEWMAN HOWARD B		441 GREAT ELM WY	ACTON	MA	01718
442 GREAT ELM WY	B4-144-442	HOUK SARA F		442 GREAT ELM WY	ACTON	MA	01718
443 GREAT ELM WY	B4-144-443	VENKATRAMAN SANJAY		443 GREAT ELM WY	ACTON	MA	01718
444 OLD STONEBROOK	B4-144-444	KERNS PETER M		444 OLD STONEBROOK	ACTON	MA	01718
445 OLD STONEBROOK	B4-144-445	HERSHEY ANTOINETTE F TR	THE ANTOINETTE HERSHEY TR-1997	445 OLD STONEBROOK	ACTON	MA	01718
446 OLD STONEBROOK	B4-144-446	BABOKHOV SERGEI	BABOKHOV MMARIA	446 OLD STONEBROOK	ACTON	MA	01718

The owner of land sharing a common boundary or corner with the site of the proposed activity (100 feet) in any direction, including land located directly across a street, way, creek, river, stream, brook, or canal. The above are as they appear on the most recent applicable taxes.

Kristen Capuette
Acton Assessors Office 12/22/2010

* CONDOMINIUM ASSOCIATION NOTIFIED

Town of Acton
472 Main Street
Acton, MA 01720
Telephone (978) 264-9622
Fax (978) 264-9630

Brian McMullen
Assistant Assessor

Locus: 101 NONSET PATH
Parcel ID: B4-12

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
16 HENLEY RD REAR	B4-12-3	TRACY RICHARD W	TRACY SUSAN M	16 HENLEY RD.	ACTON	MA	01720
18 HENLEY RD REAR	B4-12-4	BOGDANOV MIKHAIL	BOGDANOV ALLA	18 HENLEY ROAD	ACTON	MA	01720
19 HENLEY RD REAR	B4-12-5	TRAVERSI LINDA S		22 HENLEY ROAD	ACTON	MA	01720
74 NONSET PA REAR	B4-12-8	NAGOG WOODS COMMUNITY CORP	VILLAGE OF NAGOG WOODS	74 NONSET PATH	ACTON	MA	01720
495 GREAT RD REAR	B4-12-9	NAGOG WOODS COMMUNITY CORP	VILLAGE OF NAGOG WOODS	495 GREAT ROAD REAR	ACTON	MA	01720
24 HENLEY RD	B4-13	JEYASEELAN JEY RAJU	JEYASEELAN SUDHA	24 HENLEY RD	ACTON	MA	01720
25 HENLEY RD BESIDE	B4-14-3	KROL ELIZABETH S	KROL MICHAEL A	25 HENLEY ROAD	ACTON	MA	01720
25 HENLEY RD BESIDE	B4-14-4	KROL ELIZABETH S	KROL MICHAEL A	25 HENLEY ROAD	ACTON	MA	01720
25 HENLEY RD	B4-15	KROL ELIZABETH S	KROL MICHAEL A	25 HENLEY RD	ACTON	MA	01720
16 HENLEY RD	B4-18	TRACY RICHARD W	TRACY SUSAN M	16 HENLEY RD.	ACTON	MA	01720
18 HENLEY RD	B4-19	BOGDANOV MIKHAIL	BOGDANOV ALLA	18 HENLEY RD	ACTON	MA	01720
20 HENLEY RD	B4-20	SUNDBERG KENNETH A	SUNDBERG ELIZABETH	20 HENLEY RD	ACTON	MA	01720
22 HENLEY RD	B4-21	TRAVERSI LINDA S		22 HENLEY RD	ACTON	MA	01720
96 NONSET PA	B5-25	NAGOG WOODS COMMUNITY CORP		VILLAGE OF NAGOG WOODS	ACTON	MA	01718
88 NONSET PA	B5-25-2	NAGOG WOODS COMMUNITY CORP	VILLAGE OF NAGOG WOODS	88 NONSET PATH	ACTON	MA	01718
109 NONSET PA	B5-25-8	KOMMINENI PRASAD R	KOMMINENI REKHA	109 NONSET PA	ACTON	MA	01718
108 NONSET PA	B5-25-4	PETERS ROBERT TRUSTEE	BLACKSTONE REALTY TRUST	1474 BUTTERFIELD CT	MARCO ISLAND	FL	34145
107 NONSET PA	B5-25-7	JIANG ZIPING	KE WEIHUA	107 NONSET PA	ACTON	MA	01720
102 NONSET PA	B5-25-3	NAGOG WOODS COMMUNITY CORP	VILLAGE OF NAGOG WOODS		ACTON	MA	01718
116 WATERSIDE CLR	B4-101-34	SMITH LINDA G		116 WATERSIDE CLR	ACTON	MA	01718
115 WATERSIDE CLR	B4-101-35	ZHENG JUN	BARBARA JANE REICHERT IRREVOCA	115 WATERSIDE CLR	ACTON	MA	01718
114 WATERSIDE CLR	B4-101-36	WEINSTEIN BERNARD ETUX		114 WATERSIDE CL	ACTON	MA	01718
113 WATERSIDE CLR	B4-101-37	ROSNER PETER		113 WATERSIDE CLRG	ACTON	MA	01718
112 WATERSIDE CLR	B4-101-38	GEORGE SUSAN M		112 WATERSIDE CLR	ACTON	MA	01718
111 WATERSIDE CLR	B4-101-39	JUBERT INA	BELACK CARL NELSON	111 WATERSIDE CLR	ACTON	MA	01720
110 WATERSIDE CLR	B4-101-40	CHEN JIANRONG		110 WATERSIDE CLR	ACTON	MA	01720
125 WATERSIDE CLR	B4-102-41	GABER BORIS		125 WATERSIDE CLR	ACTON	MA	01718
124 WATERSIDE CLR	B4-102-42	CROWELL DARRIN A		124 WATERSIDE CLR	ACTON	MA	01720
131 BUTTERNUT HOLLOW	B4-103-2	BLOMGREN SHARON		131 BUTTERNUT HOLLOW	ACTON	MA	01718

Locus: 101 NONSET PATH
Parcel ID: B4-12

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
132 BUTTERNUT HOLLOW	B4-103-3	MILLER NIELA		132 BUTTERNUT HOLLOW	ACTON	MA	01718
133 BUTTERNUT HOLLOW	B4-103-4	LEE TAESIK	ALICE H OH	133 BUTTERNUT HOLLOW	ACTON	MA	01718
134 BUTTERNUT HOLLOW	B4-103-5	VALENTE ELIZABETH M		134 BUTTERNUT HOLLOW	ACTON	MA	01718
135 BUTTERNUT HOLLOW	B4-103-6	HAN ZHIXIU		135 BUTTERNUT HOLLOW	ACTON	MA	01718
140 BUTTERNUT HOLLOW	B4-104-7	CHAKRAVARTHY RAJESH		8 ABEL JONES PL	ACTON	MA	01718
141 BUTTERNUT HOLLOW	B4-104-8	REIFENSTEIN EDWARD C		141 BUTTERNUT HOLLOW	ACTON	MA	01718
142 BUTTERNUT HOLLOW	B4-104-9	MERRICK MARION A		16 THOREAU ROAD	ACTON	MA	01720
143 BUTTERNUT HOLLOW	B4-104-10	HOCHBERG YIGAL		143 BUTTERNUT HOLLOW	ACTON	MA	01720
144 BUTTERNUT HOLLOW	B4-104-11	STOKES THERESA E TRUSTEE	OLD STONEBROOK NOMINEE TRUST	131 SUDBURY RD	CONCORD	MA	01742
145 BUTTERNUT HOLLOW	B4-104-12	HAND BARRY J	HAND STEPHANIE W	145 BUTTERNUT HL	ACTON	MA	01718
146 BUTTERNUT HOLLOW	B4-104-13	OLIVA RICHARD F		146 BUTTERNUT HOLLOW	ACTON	MA	01718
147 BUTTERNUT HOLLOW	B4-104-14	DUDLEY PATRICIA J		147 BUTTERNUT HOL.	ACTON	MA	01718
150 BUTTERNUT HOLLOW	B4-105-15	HOLMANSKY EVGENY N	HOLMANSKY ELENA M	150 BUTTERNUT HL	ACTON	MA	01718
151 BUTTERNUT HOLLOW	B4-105-16	HALLIGAN TIMOTHY DR		14560 LATROBE DR	COLORADO SPRINGS	CO	38921
152 BUTTERNUT HOLLOW	B4-105-17	MARKMAN DMITRY		152 BUTTERNUT HOLLOW	ACTON	MA	01718
153 BUTTERNUT HOLLOW	B4-105-18	BEUST BEVERLY A		153 BUTTERNUT HOLLOW	ACTON	MA	01718
154 BUTTERNUT HOLLOW	B4-105-19	WALKER BURKE M	WALKER PATRICE K	154 BUTTERNUT HOLLOW	ACTON	MA	01720
165 SPLIT ROCK DR	B4-106-20	GORDON GEORGE E	GORDON AMY S	165 SPLIT ROCK DR	ACTON	MA	01718
164 SPLIT ROCK DR	B4-106-21	DAVIS BETH S		164 SPLIT ROCK DR	ACTON	MA	01718
163 SPLIT ROCK DR	B4-106-22	LANDRETH KAY MARILYNN TRUSTEE	KML REALTY TRUST	163 SPLIT ROCK DR	ACTON	MA	01718
162 SPLIT ROCK DR	B4-106-23	MALLARD BARBARA E		162 SPLIT ROCK DR	ACTON	MA	01718
160 SPLIT ROCK DR	B4-106-24	REINHARDT MICHAEL R	REINHARDT ELIZABETH S	160 SPLIT ROCK DR	ACTON	MA	01718
161 SPLIT ROCK DR	B4-106-25	ONUSKA LINDA A		161 SPLIT ROCK DR.	ACTON	MA	01718
170 SPLIT ROCK DR	B4-107-26	ZHANG XIN	YE XIANYI	170 SPLIT ROCK DR	ACTON	MA	01718
171 SPLIT ROCK DR	B4-107-27	BRIGHT WILLIAM JR	BRIGHT ANN M	171 SPLIT ROCK DR	ACTON	MA	01718
172 SPLIT ROCK DR	B4-107-28	GOBLICK CAROLYN R		172 SPLIT ROCK DRIVE	ACTON	MA	01718
173 SPLIT ROCK DR	B4-107-29	LOMBARDO RICHARD V	LOMBARDO CAROLYN J	173 SPLIT ROCK DR.	ACTON	MA	01718
174 SPLIT ROCK DR	B4-107-30	BERGER SUSAN T		174 SPLIT ROCK DR	ACTON	MA	01718
175 SPLIT ROCK DR	B4-107-31	JUELS PHILIP I	JUELS KERRIE A	19 WHITETAIL WAY	LITTLETON	MA	01460
176 SPLIT ROCK DR	B4-107-32	LAI CHANNING J		176 SPLIT ROCK DR	ACTON	MA	01718
177 SPLIT ROCK DR	B4-107-33	HERBST DIANE		177 SPLIT ROCK DR	ACTON	MA	01718
616 OLD STONEBROOK	B4-108-47	COAN ROBERT M	FRACASSO GRACE M	616 OLD STONEBROOK	ACTON	MA	01718
615 OLD STONEBROOK	B4-108-48	RHEAUME MICHAEL J		615 OLD STONEBROOK	ACTON	MA	01718
614 OLD STONEBROOK	B4-108-49	ANDERSEN B SCOTT		614 OLD STONEBROOK	ACTON	MA	01720
613 OLD STONEBROOK	B4-108-50	ROSEN ANDREW J		613 OLD STONEBROOK	ACTON	MA	01718
612 OLD STONEBROOK	B4-108-51	CENTRELLA PAOLO A	NASUTI CATHERINE	612 OLD STONEBROOK	ACTON	MA	01718
611 OLD STONEBROOK	B4-108-52	LAFOLLETTE PHILIP A	GEER MARY ELLEN	611 OLD STONEBROOK	ACTON	MA	01718
667 PHEASANT HILL	B4-109-53	WOLF DAVID	WOLF JENNIFER	667 PHEASANT HILL	ACTON	MA	01720
665 PHEASANT HILL	B4-109-54	BLOOM STEVEN B	BLOOM TINA Y	665 PHEASANT HILL	ACTON	MA	01718
668 PHEASANT HILL	B4-109-55	TANG JINJIE		668 PHEASANT HILL	ACTON	MA	01720
663 PHEASANT HILL	B4-109-56	MORRISON PRISCILLA A	RODRIGUEZ DEANNA	663 PHEASANT HILL	ACTON	MA	01718

Locus: 101 NONSET PATH
Parcel ID: B4-12

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
664 PHEASANT HILL	B4-109-57	CHEUNG ROBIN		664 PHEASANT HILL	ACTON	MA	01718
662 PHEASANT HILL	B4-109-58	PHILLIPS NATHAN D		229 FULLER STREET	NEWTON	MA	02465
661 PHEASANT HILL	B4-109-59	KONNIKOVA YEVGENYA	ZHOU HAIYAN	661 PHEASANT HILL	ACTON	MA	01720
648 PHEASANT HILL	B4-110-60	CROMPTON ELLEN M		648 PHEASANT HILL	ACTON	MA	01718
647 PHEASANT HILL	B4-110-61	KONG NING	WANG DONGMEI	647 PHEASANT HILL	ACTON	MA	01720
646 PHEASANT HILL	B4-110-62	MINTZ LEON	MINTZ RITA	646 PHEASANT HILL	ACTON	MA	01718
645 PHEASANT HILL	B4-110-63	ABRAMSON ROBERT J	ABRAMSON CLAUDIA G	645 PHEASANT HILL	ACTON	MA	01720
644 PHEASANT HILL	B4-110-64	BRZOSKOWSKI RYSZARD	BRZOSKOWSKI MARIA J	644 PHEASANT HILL	ACTON	MA	01718
643 PHEASANT HILL	B4-110-65	ANGELL WILLIAM H	ANGELL DEANNE G	44 PRISCILLA MULLENS WY	CARVER	MA	02330
642 PHEASANT HILL	B4-110-66	FROLICK JAY H	FROLICK ROSALIE S	642 PHEASANT HILL	ACTON	MA	01718
641 PHEASANT HILL	B4-110-67	KOEHLER CHARLES	KOEHLER KAREN L	641 PHEASANT HILL	ACTON	MA	01718
625 PHEASANT HILL	B4-111-68	GRIESENBECK DONNA K	EDWARDS CHRISTOPHER G	625 PHEASANT HILL	ACTON	MA	01718
624 PHEASANT HILL	B4-111-69	DOWDY DARLENE M		624 PHEASANT HILL	ACTON	MA	01718
623 PHEASANT HILL	B4-111-70	COTE TIMOTHY E	KATZ-COTE HEATHER M	623 PHEASANT HILL	ACTON	MA	01720
622 PHEASANT HILL	B4-111-71	MOSS CAROLINE		622 PHEASANT HILL	ACTON	MA	01718
621 PHEASANT HILL	B4-111-72	BOGAEVSKY DIMITRIY	BOGAEVSKY TATYANA	621 PHEASANT HILL	ACTON	MA	01720
607 OLD STONEBROOK	B4-112-73	WATKINS MICHAEL D	WATKINS KAREN J (TALLARIDA)	607 OLD STONEBROOK	ACTON	MA	01720
605 PHEASANT HILL	B4-112-74	SOLON MARGARET D		605 PHEASANT HILL	ACTON	MA	01718
606 OLD STONEBROOK	B4-112-75	MISHRA KAVEESH		606 OLD STONEBROOK	ACTON	MA	01718
604 OLD STONEBROOK	B4-112-76	ZISCH WALDEMAR C		102 KRISTEN DRIVE EXTENSI	CHELMSFORD	MA	01824
603 OLD STONEBROOK	B4-112-77	LIU JING	ZHENG GULIAN	603 OLD STONEBROOK	ACTON	MA	01720
602 OLD STONEBROOK	B4-112-78	QUIST YVONNE	QUIST THEODORE ET AL	602 OLD STONEBROOK	ACTON	MA	01718
601 OLD STONEBROOK	B4-112-79	BENOWITZ MARTIN	PATRICIA	601 OLD STONEBROOK	ACTON	MA	01718
541 OLD STONEBROOK	B4-114-80	SCHILLING DONNA E		541 OLD STONEBROOK	ACTON	MA	01718
542 OLD STONEBROOK	B4-114-81	SIOTIA SANJEEV		83 DEERFOOT RD	SOUTHBOROUGH	MA	01772-15
543 OLD STONEBROOK	B4-114-82	DESMOND ROBERT J	LORRAINE M	BOX 1593	NO FALMOUTH	MA	02556
544 GREAT ELM WY	B4-114-83	LALL SANJAY KUMAR	TYAGI MANISHA S	544 GREAT ELM WY	ACTON	MA	01720
545 GREAT ELM WY	B4-114-84	LUCY DORN		1077 EVERWILD VIEW	WEBSTER	NY	14580
546 GREAT ELM WY	B4-114-85	TIMLEGE CHARLOTTE H	TIMLEGE EDWARD C	546 GREAT ELM WAY	ACTON	MA	01718
547 GREAT ELM WY	B4-114-86	AMSTUTZ GALEN D	AMSTUTZ MARY E	547 GREAT ELM WY	ACTON	MA	01718
548 GREAT ELM WY	B4-114-87	FARIA FRANCISCO I	ANA C	548 GREAT ELM WAY	ACTON	MA	01718
549 GREAT ELM WY	B4-114-88	SHEN JANIE	SUAREZ XAVIER VELASCO	549 GREAT ELM WY	ACTON	MA	01718
539 OLD STONEBROOK	B4-115-89	TAROLA DANIEL P	TAROLA FAINA V	539 OLD STONEBROOK	ACTON	MA	01720
538 OLD STONEBROOK	B4-115-90	VAN MOURIK MARY DM		538 OLD STONEBROOK	ACTON	MA	01718
537 OLD STONEBROOK	B4-115-91	KLEIN DANIEL S	SHELLEY KASSMAN	537 OLD STONEBROOK	ACTON	MA	01718
536 OLD STONEBROOK	B4-115-92	ZHURAVLEV PAVEL	ZHURAVLOVA IRYNA	536 OLD STONEBROOK	ACTON	MA	01720
535 OLD STONEBROOK	B4-115-93	KUBIK GERALD H	KUBIK KAREN E	535 OLD STONEBROOK	ACTON	MA	01718
534 OLD STONEBROOK	B4-115-94	ADELMAN EDWARD H	ADELMAN MICHELE	534 OLD STONEBROOK	ACTON	MA	01718
533 OLD STONEBROOK	B4-115-95	COVEY KAREN		533 OLD STONEBROOK	ACTON	MA	01720
532 OLD STONEBROOK	B4-115-96	JOSEPH ALENCHERY LIZA		532 OLD STONEBROOK	ACTON	MA	01720
531 OLD STONEBROOK	B4-115-97	LOPES SALVATORE T		531 OLD STONEBROOK	ACTON	MA	01718

Locus: 101 NONSET PATH
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Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
518 TUMBLING HAWK	B4-116-99	SANCETTA SCOTT R	TATTELMAN SHERYL	518 TUMBLING HAWK	ACTON	MA	01718
517 TUMBLING HAWK	B4-116-100	KINNIBURGH DAVID		517 TUMBLING HAWK	ACTON	MA	01718
516 TUMBLING HAWK	B4-116-101	GILFIX DAVID J	GILFIX SHARYN B	516 TUMBLING HAWK	ACTON	MA	01718
515 TUMBLING HAWK	B4-116-102	SUN JIANHUA	QUI SHUMEL	515 TUMBLING HAWK	ACTON	MA	01718
514 TUMBLING HAWK	B4-116-103	KVASOV ALEXEI G	TERENTYEVA OLGA Y	514 TUMBLING HAWK	ACTON	MA	01720
513 TUMBLING HAWK	B4-116-104	TAMARCHENKO JOSEPH	TAMARCHENKO INNA	513 TUMBLING HAWK	ACTON	MA	01718
512 TUMBLING HAWK	B4-116-105	RONG BING LAN		512 TUMBLING HAWK	ACTON	MA	01718
511 TUMBLING HAWK	B4-116-106	DE LUNA RENATO M	CROSS PIERA M.	511 TUMBLING HAWK	ACTON	MA	01720
577 GREAT ELM WY	B4-117-107	HARDING MARK E	HARDING SUZANNE J	577 GREAT ELM WY	ACTON	MA	01718
576 GREAT ELM WY	B4-117-108	LEVIN ISAAC	LEVIN NATASHA	576 GREAT ELM WY	ACTON	MA	01718
575 GREAT ELM WY	B4-117-109	BEAN BARBARA A		75 STOWECROFT RD	ARLINGTON	MA	02474
574 GREAT ELM WY	B4-117-110	CHUNG JEESEONG		96 BOWER TR	IRVINE	CA	92503-01
573 GREAT ELM WY	B4-117-111	IAFRATE ANNETTE		573 GREAT ELM WAY	ACTON	MA	01718
572 GREAT ELM WY	B4-117-112	FOELLER CARL W JR		572 GREAT ELM WY	ACTON	MA	01718
571 GREAT ELM WY	B4-117-113	SHAH MAHULKUMAR	SHAH RUPA	25925 SPRING FARM CIRCLE	CHANTILLY	VA	20152
558 GREAT ELM WY	B4-118-114	TALEBI KAMRAN		558 GREAT ELM WY	ACTON	MA	01720
559 GREAT ELM WY	B4-118-115	DANIELLO SARAH D		559 GREAT ELM WY	ACTON	MA	01718
551 GREAT ELM WY	B4-118-116	GUPTA BEENU	GUPTA SANJAY	551 GREAT ELM WY	ACTON	MA	01720
552 GREAT ELM WY	B4-118-117	ZELTSER DIANA		552 GREAT ELM WY	ACTON	MA	01720
553 GREAT ELM WY	B4-118-118	WHITE BILLY M	PATRICIA P	3365 HAZELWOOD DR	ATLANTA	GA	30311
554 GREAT ELM WY	B4-118-119	YACOUBY RAY S	YACOUBY BARBARA S	554 GREAT ELM WY	ACTON	MA	01718
555 GREAT ELM WY	B4-118-120	FITZPATRICK ALICE F TRUSTEE	ALICE F FITZPATRICK REV TRUST	555 GREAT ELM WY	ACTON	MA	01720
556 GREAT ELM WY	B4-118-121	RUTMAN GRIGORY	RUTMAN IRINA	556 GREAT ELM WY	ACTON	MA	01720
557 GREAT ELM WY	B4-118-122	NAUTIYAL ATUL		557 GREAT ELM WY	ACTON	MA	01718
598 GREAT ELM WY	B4-119-123	GRIFFIN THOMAS W	GRIFFIN CATHY LAVOIE	598 GREAT ELM WY	ACTON	MA	01720
599 GREAT ELM WY	B4-119-124	FINN NOREEN D		599 GREAT ELM WY	ACTON	MA	01718
594 PINE CONE STRAND	B4-119-125	QUINN JOHN W ET AL	ABRAHAM ROBERT W+KRISTEN J	81 PLAINFIELD RD	CONCORD	MA	01742
593 PINE CONE STRAND	B4-119-126	DEOLIVEIRA GESIEL G	D OLIVEIRA WALMIRA	593 PINE CONE STRAND	ACTON	MA	01718
592 PINE CONE STRAND	B4-119-127	SATHAYE YASHODHAN	JAMBHEKAR KSHAMA	592 PINE CONE STRAND	ACTON	MA	01718
591 PINE CONE STRAND	B4-119-128	BENDER II C ROBERT		591 PINE CONE STRAND	ACTON	MA	01718
590 PINE CONE STRAND	B4-119-129	ARYASOMAYAJULA SUBRAHMANYAM	NOOKALA SRIDEVI	590 PINE CONE STRAND	ACTON	MA	01720
595 GREAT ELM WY	B4-119-130	VILLEGAS DIANA L		595 GREAT ELM WAY	ACTON	MA	01718
596 GREAT ELM WY	B4-119-131	HORTON RICHARD J	LIU SHITAO	596 GREAT ELM WY	ACTON	MA	01718
597 GREAT ELM WY	B4-119-132	ZEMLYANSKY NATALY		19 TUFFS RD	LEXINGTON	MA	02421
522 TUMBLING HAWK	B4-120-133	CAOUETTE FRANCES S		522 TUMBLING HAWK	ACTON	MA	01718
523 TUMBLING HAWK	B4-120-134	DUFOUR JEAN-LUC	LETENDRE SANDRINE	409 FOX DEN LANE	MILLERSVILLE	MD	21108
524 TUMBLING HAWK	B4-120-135	BAGLIO JO AN &	CHARLES F	524 TUMBLING HAWK	ACTON	MA	01718
525 TUMBLING HAWK	B4-120-136	OCONNOR CHRISTOPHER M	OCONNOR LISA M	525 TUMBLING HAWK	ACTON	MA	01720
526 TUMBLING HAWK	B4-120-137	KRISHNASWAMY SUNEEL	SUNEEL SOWMYA	523 ACORN PARK DR	ACTON	MA	01720
520 BANKSIDE HOLLOW	B4-120-138	AN HONG	ZHANG XIANGWEI	520 BANKSIDE HOLLOW	ACTON	MA	01718
521 BANKSIDE HOLLOW	B4-120-139	ZHANG YONG	LI WEN	521 BANKSIDE HOLLOW	ACTON	MA	01718

Locus: 101 NONSET PATH
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527 BANKSIDE HOLLOW	B4-120-140	BIGGS JOYCE C		527 BANKSIDE HOLLOW	ACTON	MA	01718
528 GREAT ELM WY	B4-120-141	SANDBERG JENNIE S		528 GREAT ELM WY	ACTON	MA	01718
529 GREAT ELM WY	B4-120-142	MA HEEKYEONG	LEE SUKWOO	529 GREAT ELM WY	ACTON	MA	01720
504 TUMBLING HAWK	B4-121-143	LEVIN OLEG	CHICHEVA TATYANA	504 TUMBLING HAWK	ACTON	MA	01720
505 TUMBLING HAWK	B4-121-144	RAO MITNALA R	RAO MITINALA PRAMILA	505 TUMBLING HAWK	ACTON	MA	01720
501 TUMBLING HAWK	B4-121-145	ABRAMS IRWIN B & GER		501 TUMBLING HAWK	ACTON	MA	01718
502 TUMBLING HAWK	B4-121-146	HU YONGHAN	CAI SUWEN	502 TUMBLING HAWK	ACTON	MA	01720
503 TUMBLING HAWK	B4-121-147	COONEY WILLIAM J III TRUSTEE	POWER DEBORAH A TRUSTEE, POCO ACTON REALTY TRUST	959 CONCORD ROAD	CARLISLE	MA	01741
506 BANKSIDE HOLLOW	B4-121-148	KAPLAN-EARLE JOHN	KAPLAN-EARLE MARNI	506 BANKSIDE HOLLOW	ACTON	MA	01720
507 BANKSIDE HOLLOW	B4-121-149	ONEIL ELIZABETH , COUGHLIN CAR	COUGHLIN CHRISTOPER, COUGHLIN	507 BANKSIDE HOLLOW	ACTON	MA	01718
248 PINE CONE STRAND	B4-122-150	OLIVEIRA CLEBER M		248 PINE CONE STRAND	ACTON	MA	01718
249 PINE CONE STRAND	B4-122-151	GILBERT A BETHEL		249 PINE CONE STRND	ACTON	MA	01718
240 OLD BEAVERBROOK	B4-122-152	ORMSBY SHIRLEY A		240 OLD BEAVERBROOK	ACTON	MA	01718
241 OLD BEAVERBROOK	B4-122-153	SUMMERFELT ELGIN H	SUMMERFELT LORRAINE S	241 OLD BEAVERBROOK	ACTON	MA	01718
242 OLD BEAVERBROOK	B4-122-154	FLEMING H MARGO		242 OLD BEAVERBROOK ROAD	ACTON	MA	01718
243 PINE CONE STRAND	B4-122-155	LANDERS JOHN L		243 PINE CONE STRAND	ACTON	MA	01718
244 OLD BEAVERBROOK	B4-122-156	YERSHOV ALEXANDER	YERSHOV IRINA	244 OLD BEAVERBROOK ROAD	ACTON	MA	01718
245 PINE CONE STRAND	B4-122-157	SWEENEY MICHAEL G		245 PINE CONE STRAND	ACTON	MA	01718
246 PINE CONE STRAND	B4-122-158	YEE JANICE		246 PINE CONE STRAND	ACTON	MA	01718
247 PINE CONE STRAND	B4-122-159	TOMPKINS DAVID O & V		247 PINE CONE STRND	ACTON	MA	01718
231 OLD BEAVERBROOK	B4-123-160	CHERIFI SAADI	LAYAKOUBI BELAID	231 OLD BEAVERBROOK	ACTON	MA	01718
230 OLD BEAVERBROOK	B4-123-161	XU HONG	SUN YING	230 OLD BEAVERBROOK	ACTON	MA	01718
239 BROWN BEAR CRSG	B4-123-162	PRASAD DEVENDRA	PRASAD REETA	239 BROWN BEAR CRSG	ACTON	MA	01718
238 BROWN BEAR CRSG	B4-123-163	LABOSSIERE LISBETH		238 BROWN BEAR CRSG	ACTON	MA	01718
237 BROWN BEAR CRSG	B4-123-164	BEGGS MARA B		237 BROWN BEAR CRSG	ACTON	MA	01720
236 BROWN BEAR CRSG	B4-123-165	PATHAK SANDEEP M	PATHAK SMITA S	236 BROWN BEAR CRSG	ACTON	MA	01718
235 BROWN BEAR CRSG	B4-123-166	HALL CHARLES W	HALL MONICA L	235 BROWN BEAR CRSG	ACTON	MA	01718
234 BROWN BEAR CRSG	B4-123-167	YUAN WEI	WANG CHEN	11 FLAMINGO CIR	SHREWSBURY	MA	01545
233 OLD BEAVERBROOK	B4-123-168	PASSMAN SHIRLEY L	FURNACE PAMELA MAE	233 OLD BEAVERBROOK	ACTON	MA	01718
232 OLD BEAVERBROOK	B4-123-169	RAFUSE PAUL E	MARY ANN	20 JACKSON DR	ACTON	MA	01720
226 BANKSIDE HOLLOW	B4-124-170	FALCONE ANGELO	FALCONE RHONDA W	226 BANKSIDE HOLLOW	ACTON	MA	01720
225 BANKSIDE HOLLOW	B4-124-171	SAVEL NANCY E		225 BANKSIDE HOLLOW	ACTON	MA	01718
220 OLD BEAVERBROOK	B4-124-172	BROWN ARTHUR	LI GUANGYI	220 OLD BEAVERBROOK	ACTON	MA	01720
221 OLD BEAVERBROOK	B4-124-173	SHETTY JAYRAM T	SHETTY SHASHI	221 OLD BEAVERBROOK	ACTON	MA	01720
222 OLD BEAVERBROOK	B4-124-174	THANDAPANI SRINIVASAN	SRINIVASAN REVATHY	222 OLD BEAVERBROOK	ACTON	MA	01720
223 OLD BEAVERBROOK	B4-124-175	BECKMAN I WARREN		223 OLD BEAVERBROOK	ACTON	MA	01718
224 OLD BEAVERBROOK	B4-124-176	COATES TABOR W		224 OLD BEAVERBROOK	ACTON	MA	01718
229 BANKSIDE HOLLOW	B4-124-177	SASSON MIGUEL	DE FIGUEIREDO FERNANDA L	229 BANKSIDE HOLLOW	ACTON	MA	01718
228 BANKSIDE HOLLOW	B4-124-178	HODENPEL HUMPHREY J	HODENPEL SYLVIA Y	228 BANKSIDE HOLLOW	ACTON	MA	01718
227 BANKSIDE HOLLOW	B4-124-179	ANANTHANARANYANAN BHUVAN	BHUVAN PREETI R	227 BANKSIDE HOLLOW	ACTON	MA	01718

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Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
210 MEADOWS EDGE	B4-125-180	SHAKIR HASHIM	SHAKIR NAFISA	1002 SPRING VALLEY DRIVE	ANDOVER	MA	01810
211 MEADOWS EDGE	B4-125-181	TAYLOR PETER B		211 MEADOWS EDGE	ACTON	MA	01718
212 MEADOWS EDGE	B4-125-182	WILSON DAVID A		212 MEADOWS EDGE	ACTON	MA	01720
213 MEADOWS EDGE	B4-125-183	WILSON JOHN E JR		213 MEADOWS EDGE	ACTON	MA	01718
214 MEADOWS EDGE	B4-125-184	PINCUMBE DAVID L	SHIELDS PAMELA J	214 MEADOWS EDGE	ACTON	MA	01718
215 MEADOWS EDGE	B4-125-185	PRASAD ARUN	HEDGE SHILPA	215 MEADOWS EDGE	ACTON	MA	01718
216 MEADOWS EDGE	B4-125-186	YANG LIWEN		216 MEADOWS EDGE	ACTON	MA	01720
217 MEADOWS EDGE	B4-125-187	HUA WEI	LI BEI	217 MEADOWS EDGE	ACTON	MA	01718
257 BROWN BEAR CRSG	B4-126-188	DAY MARTHA P		257 BROWN BEAR CRSG	ACTON	MA	01720
256 BROWN BEAR CRSG	B4-126-189	LITZLER CAROL J	BURKE ROBERT	256 BROWN BEAR CRSG	ACTON	MA	01720
255 BROWN BEAR CRSG	B4-126-190	CARO KATHY L		255 BROWN BEAR CRSG	ACTON	MA	01720
254 BROWN BEAR CRSG	B4-126-191	VIITA MARIE E	C/O MARIE ELIZABETH GLYNN	413 VANDERVOORT AVE	BROOKLYN	NY	11222
253 BROWN BEAR CRSG	B4-126-192	RODGERS RICHARD M		253 BROWN BEAR CRSG	ACTON	MA	01718
252 BROWN BEAR CRSG	B4-126-193	ADELMAN HOWARD E	ADELMAN KARIN	90 BAY ST	KINSTON	ON	K7K1H8
251 BROWN BEAR CRSG	B4-126-194	MOUDGAL YOGANAND	SETLUN RAJASHREE	251 BROWN BEAR CRSG	ACTON	MA	01718
261 BROWN BEAR CRSG	B4-126-261	MAY ALBERT C	MAY BRENDA M	261 BROWN BEAR CRSG	ACTON	MA	01720
262 BROWN BEAR CRSG	B4-126-262	LIU HONGBING	REN YI	262 BROWN BEAR CRSG	ACTON	MA	01718
263 BROWN BEAR CRSG	B4-126-263	DERGACHEV ALEKSEI Y	POLIAKOVA INNA V	263 BROWN BEAR CRSG	ACTON	MA	01718
264 BROWN BEAR CRSG	B4-126-264	HSIUNG PAUL	HSIUNG JOAN L	40 RAINBOW RIDGE RD	POMONA	CA	91766
265 BROWN BEAR CRSG	B4-126-265	ROUGHSEDGE JOHN C	ROUGHSEDGE CHARRON A	265 BROWN BEAR CRSG	ACTON	MA	01718
266 BROWN BEAR CRSG	B4-126-266	LELIEVRE MARGARET A TRUSTEE	MARGARET A LELIEVRE REVOCABLE	266 BROWN BEAR CRSG	ACTON	MA	01720
201 MEADOWS EDGE	B4-127-195	WEST STEPHEN D	CATHERINE J CHASE	201 MEADOWS EDGE	ACTON	MA	01718
202 MEADOWS EDGE	B4-127-196	GREBERT KIMBERLY		202 MEADOWS EDGE	ACTON	MA	01720
203 MEADOWS EDGE	B4-127-197	JOHNSON DAVID C		203 MEADOWS EDGE	ACTON	MA	01718
204 MEADOWS EDGE	B4-127-198	MUIR RUTH PETTEYS, TR	C/O KEELER BARBARA	33 QUABOAG RD	ACTON	MA	01720
205 MEADOWS EDGE	B4-127-199	DORAN MARY E		205 MEADOWS EDGE	ACTON	MA	01720
206 MEADOWS EDGE	B4-127-200	ENGLISH JEAN		206 MEADOWS EDGE	ACTON	MA	01718
207 MEADOWS EDGE	B4-127-201	GUERRA LUZ MARIA		207 MEADOWS EDGE	ACTON	MA	01718
271 BROWN BEAR CRSG	B4-127-271	WETZELL ROLF + GERALDINE TRUST	271 BROWN BEAR CROSSING REALTY	271 BROWN BEAR CRSG	ACTON	MA	01720
272 BROWN BEAR CRSG	B4-127-272	MOON MYUNGJIN	MOON YOODONG	272 BROWN BEAR CRSG	ACTON	MA	01718
273 BROWN BEAR CRSG	B4-127-273	CLASEN MATTHIAS	CLASEN SABINE	273 BROWN BEAR CRSG	ACTON	MA	01718
274 BROWN BEAR CRSG	B4-127-274	YOUNG MATTHEW J	SHERIDAN VALERY L	274 BROWN BEAR CRSG	ACTON	MA	01718
275 BROWN BEAR CRSG	B4-127-275	LIERAS EVE JACQUELINE TRUSTEE	THE EVE JACQUELINE LIERAS GS T	11152 TOYON HILL DR	LAKESIDE	CA	92040
281 BROWN BEAR CRSG	B4-128-281	ROEHR KAREN E		281 BROWN BEAR CRSG	ACTON	MA	01718
282 BROWN BEAR CRSG	B4-128-282	HAN LIANG		282 BROWN BEAR CRSG	ACTON	MA	01718
283 BROWN BEAR CRSG	B4-128-283	MURALIDHAR KRISHNAMURTHY	PADMANABHARAO RASHMI	283 BROWN BEAR CRSG	ACTON	MA	01720
284 BROWN BEAR CRSG	B4-128-284	MILLER CONNIE L		284 BROWN BEAR CRSG	ACTON	MA	01718
291 OLD BEAVERBROOK	B4-129-291	EPSTEIN HELEN		16260 NORTH 71ST ST	SCOTTSDALE	AZ	85254
291 OLD BEAVERBROOK	B4-129-291	EPSTEIN HELEN		291 OLD BEAVERBROOK	ACTON	MA	01720
292 OLD BEAVERBROOK	B4-129-292	KWON PAULA		292 OLD BEAVERBROOK	ACTON	MA	01718
293 OLD BEAVERBROOK	B4-129-293	VICENS MARIA D		293 OLD BEAVERBROOK	ACTON	MA	01720

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294 OLD BEAVERBROOK	B4-129-294	SIVAPATHAM HARIPPRIYA M	RADHAKRISHNAN RAJU	294 OLD BEAVERBROOK	ACTON	MA	01718
295 OLD BEAVERBROOK	B4-129-295	DOVNAR OLGA		295 OLD BEAVERBROOK	ACTON	MA	01718
296 BROWN BEAR CRSG	B4-129-296	HEFFERNAN JANET L/E	HORVATH JENNIFER A	296 BROWN BEAR CRSG	ACTON	MA	01718
297 BROWN BEAR CRSG	B4-129-297	FARRILL JACKSON J ET	JACKSON J FARRILL TRUST, PAMELA B FARRILL TRUST	16 CAPTAIN FORBUSH LANE	ACTON	MA	01720
301 OLD BEAVERBROOK	B4-130-301	KINGMAN BRADFORD S	KINGMAN CHRISTINE M	301 OLD BEAVERBROOK	ACTON	MA	01718
302 OLD BEAVERBROOK	B4-130-302	KUO SHIHHAU		302 OLD BEAVERBROOK	ACTON	MA	01720
303 OLD BEAVERBROOK	B4-130-303	MILLIGAN CHRISTOPHER R	MILLIGAN CAROLYN W	303 OLD BEAVERBROOK	ACTON	MA	01720
304 OLD BEAVERBROOK	B4-130-304	BONDAR ANDREY	KRYS BELLA	304 OLD BEAVERBROOK	ACTON	MA	01718
305 OLD BEAVERBROOK	B4-130-305	SCICCHITANI NANCY		305 OLD BEAVERBROOK	ACTON	MA	01720
306 OLD STONEBROOK	B4-130-306	ALFARO CORDELIA A		306 OLD STONEBROOK	ACTON	MA	01718
307 OLD STONEBROOK	B4-130-307	HORNER JAMES K		307 OLD STONEBROOK	ACTON	MA	01718
371 OLD BEAVERBROOK	B4-137-371	BUONO JOHN A	BUONO MELISSA C	371 OLD BEAVERBROOK	ACTON	MA	01720
372 OLD BEAVERBROOK	B4-137-372	DIBERNARDO VINCENZO	DIBERNARDO WANDA L	372 OLD BEAVERBROOK	ACTON	MA	01720
373 OLD BEAVERBROOK	B4-137-373	LARRATT LINDA M		373 OLD BEAVERBROOK	ACTON	MA	01718
374 OLD BEAVERBROOK	B4-137-374	PAQUIN ROBERT L		374 OLD BEAVERBROOK	ACTON	MA	01718
375 OLD BEAVERBROOK	B4-137-375	MLEZIVA SARAH		375 OLD BEAVERBROOK	ACTON	MA	01718
376 OLD BEAVERBROOK	B4-137-376	STAROSELSKY ILYA		376 OLD BEAVERBROOK	ACTON	MA	01720
377 OLD BEAVERBROOK	B4-137-377	LI ZHAOQIANG	HAN JING	377 OLD BEAVERBROOK	ACTON	MA	01718
378 OLD BEAVERBROOK	B4-137-378	PILMAN MICHAEL G	PILMAN MONICA C	378 OLD BEAVERBROOK	ACTON	MA	01718
381 OLD BEAVERBROOK	B4-138-381	MANDLOI AMIT	ARCHANA BARRY	381 OLD BEAVERBROOK	ACTON	MA	01720
382 OLD BEAVERBROOK	B4-138-382	GYIMESI BALINT	GRONAS BEATRIX GYIMESINE	85 SWANTON ST	WINCHESTER	MA	01890-20
383 OLD BEAVERBROOK	B4-138-383	PODLUZHNAYA NADEZHDA O	PODLUZHNAYA VYACHESLAV	383 OLD BEAVERBROOK	ACTON	MA	01718
384 OLD BEAVERBROOK	B4-138-384	HUANG MING-CHIA	HUANG SHU-FEN	384 OLD BEAVERBROOK	ACTON	MA	01718
385 OLD BEAVERBROOK	B4-138-385	ROYCE CHRISTINE M		385 OLD BEAVERBROOK	ACTON	MA	01718
386 OLD BEAVERBROOK	B4-138-386	COSTELLO CORRINE		26 OCEAN PINES DRIVE	SAGAMORE BEACH	MA	02562
391 PINE CONE STRAND	B4-139-391	POLSHIN MAKSIM	POLSHINA OLENA	391 PINE CONE STRAND	ACTON	MA	01718
392 PINE CONE STRAND	B4-139-392	VEMBUSUBRAMANIAN MUTHUSAMY	VEMBUSUBRAMANIAN BALA	392 PINE CONE STRAND	ACTON	MA	01720
393 PINE CONE STRAND	B4-139-393	WILHELM SCOTT R	WILHELM CHRISTINE E	393 PINE CONE STRAND	ACTON	MA	01718
394 PINE CONE STRAND	B4-139-394	DZURAK EWA	DZURAK TOMASZ P	394 PINE CONE STRAND	ACTON	MA	01718
395 PINE CONE STRAND	B4-139-395	STELLING DANIELLE M		395 PINE CONE STRAND	ACTON	MA	01718
396 PINE CONE STRAND	B4-139-396	MAKSIMCHUK GEORGE	PHILIPPOVA JULIA	396 PINE CONE STRAND	ACTON	MA	01718
397 PINE CONE STRAND	B4-139-397	JENKINS GARY W		397 PINE CONE STRAND	ACTON	MA	01718
398 PINE CONE STRAND	B4-139-398	GAETA MARK M	GAETA JENNIFER S	398 PINE CONE STRAND	ACTON	MA	01718
401 GREAT ELM WY	B4-140-401	KRIEGER MICHAEL A		401 GREAT ELM WY	ACTON	MA	01718
402 GREAT ELM WY	B4-140-402	FERRIERO BRENDA L		402 GREAT ELM WAY	ACTON	MA	01718
403 GREAT ELM WY	B4-140-403	VISSAPRAGADA VENKATA K	VISSAPRAGADA SAILAJA	403 GREAT ELM WY	ACTON	MA	01720
404 GREAT ELM WY	B4-140-404	WOLFE CYNTHIA L		404 GREAT ELM WY	ACTON	MA	01718
405 GREAT ELM WY	B4-140-405	HSIEH CHING TZONG	HSIEH PAY-LING L	405 GREAT ELM WY	ACTON	MA	01718
406 GREAT ELM WY	B4-140-406	BADAEV YUNONA V	BADAEV SERGEY V	406 GREAT ELM WY	ACTON	MA	01718
407 GREAT ELM WY	B4-140-407	FINKEL REINHARDT MELISSA		407 GREAT ELM WY	ACTON	MA	01720

Locus: 101 NONSET PATH
Parcel ID: B4-12

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
408 GREAT ELM WY	B4-140-408	PEMBERTON ANNE D		408 GREAT ELM WAY	ACTON	MA	01718
421 GREAT ELM WY	B4-142-421	CHANG QINLIN		421 GREAT ELM WY	ACTON	MA	01718
422 GREAT ELM WY	B4-142-422	AVERY SUZANNE P		422 GREAT ELM WY	ACTON	MA	01718
423 GREAT ELM WY	B4-142-423	VAN SAVAGE KIMBERLY MULLIN		423 GREAT ELM WY	ACTON	MA	01720
424 GREAT ELM WY	B4-142-424	DIAMOND STANLEY M	DIAMOND DEBORAH	424 GREAT ELM WAY	ACTON	MA	01718
425 GREAT ELM WY	B4-142-425	GANGOLLI ESHA A		425 GREAT ELM WY	ACTON	MA	01720
426 GREAT ELM WY	B4-142-426	HERLIHY MAURA A		426 GREAT ELM WY	ACTON	MA	01718
431 GREAT ELM WY	B4-143-431	POTTER JEREMY T	LEVY ELYSE J	431 GREAT ELM WY	ACTON	MA	01720
432 GREAT ELM WY	B4-143-432	KNOWLTON ROBERT	KNOWLTON JUDITH	432 GREAT ELM WY	ACTON	MA	01718
433 GREAT ELM WY	B4-143-433	JAMIESON KATHLEEN C		433 GREAT ELM WAY	ACTON	MA	01718
434 OLD STONEBROOK	B4-143-434	STEPHENSON MICHAEL L	FINN KATHLEEN	434 OLD STONEBROOK	ACTON	MA	01718
435 OLD STONEBROOK	B4-143-435	BARAN STEPHEN	BARAN BERNICE	435 OLD STONEBROOK	ACTON	MA	01718
436 OLD STONEBROOK	B4-143-436	BERRY TERESA ANN TRUSTEE	SHMIDT LYUBOV	436 OLD STONEBROOK	ACTON	MA	01720
441 GREAT ELM WY	B4-144-441	NEWMAN HOWARD B		441 GREAT ELM WY	ACTON	MA	01718
442 GREAT ELM WY	B4-144-442	HOUK SARA F		442 GREAT ELM WY	ACTON	MA	01718
443 GREAT ELM WY	B4-144-443	VENKATRAMAN SANJAY		443 GREAT ELM WY	ACTON	MA	01718
444 OLD STONEBROOK	B4-144-444	KERNS PETER M		444 OLD STONEBROOK	ACTON	MA	01718
445 OLD STONEBROOK	B4-144-445	HERSHEY ANTOINETTE F TR	THE ANTOINETTE HERSHEY TR-1997	445 OLD STONEBROOK	ACTON	MA	01718
446 OLD STONEBROOK	B4-144-446	BABOKHOV SERGEI	BABOKHOV MMARIA	446 OLD STONEBROOK	ACTON	MA	01718

The owner of land sharing a common boundary or corner with the site of the proposed activity (100 feet) in any direction, including land located directly across a street, way, creek, river, stream, brook or canal. The above are as they appear on the most recent applicable taxes.

Kristen Caouette
Acton Assessors Office 12/22/2010

* CONDOMINIUM ASSOCIATION NOTIFIED

Town of Acton
472 Main Street
Acton, MA 01720
Telephone (978) 264-9622
Fax (978) 264-9630

Brian McMullen
Assistant Assessor

Locus: 111 NONSET PATH
Parcel ID: B5-25-9

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
113 NONSET PA	B4-12-11	KENNETH B LEVINE	LISA J LEVINE	113 NONSET PATH	ACTON	MA	01720
108 NONSET PA	B5-25-4	PETERS ROBERT TRUSTEE	BLACKSTONE REALTY TRUST	1474 BUTTERFIELD CT	MARCO ISLAND	FL	34145
110 NONSET PA	B5-25-5	YAMANAKA MITSUYUKI	YAMANAKA MISUZU	110 NONSET PH	ACTON	MA	01720
112 NONSET PA	B5-25-6	MOHAR VICTORIA	SUDANA IMADE	112 NONSET PA	ACTON	MA	01720
107 NONSET PA	B5-25-7	JIANG ZIPING	KE WEIHUA	107 NONSET PA	ACTON	MA	01720
109 NONSET PA	B5-25-8	KOMMINENI PRASAD R	KOMMINENI REKHA C	109 NONSET PA	ACTON	MA	01720
25 HENLEY RD	B4-15	ELIZABETH KROL	MICHAEL KROL	25 HENLEY RD	ACTON	MA	01720
25 HENLEY RD BESIDE	B4-14-3	ELIZABETH KROL	MICHAEL KROL	25 HENLEY RD	ACTON	MA	01720

The owner of land sharing a common boundary or corner with the site of the proposed activity (100 feet) in any direction, including land located directly across a street, way, creek, river, stream, brook or canal. The above are as they appear on the most recent applicable taxes.

Kristen Caouett 21-Dec-10

Acton Assessors Office

Town of Acton
472 Main Street
Acton, MA 01720
Telephone (978) 264-9622
Fax (978) 264-9630

Brian McMullen
Assistant Assessor

Locus: 109 NONSET PATH
Parcel ID: B5-25-8

Location	Parcel ID	Owner	Co-Owner	Mailing Address	City	ST	Zip
111 NONSET PA	B5-25-9	MINGCHEN WU	CINDY WU	111 NONSET PA	ACTON	MA	01720
108 NONSET PA	B5-25-4	PETERS ROBERT TRUSTEE	BLACKSTONE REALTY TRUST	1474 BUTTERFIELD CT	MARCO ISLAND	FL	34145
110 NONSET PA	B5-25-5	YAMANAKA MITSUYUKI	YAMANAKA MISUZU	110 NONSET PH	ACTON	MA	01720
107 NONSET PA	B5-25-7	JIANG ZIPING	KE WEIHUA	107 NONSET PA	ACTON	MA	01720
101 NONSET PA	B4-12	PETERS R TRUSTEE	BLACKSTONE REALTY TRUST	1474 BUTTERFIELD CT	MARCO ISLAND	MA	01720
25 HENLEY RD	B4-15	ELIZABETH KROL	MICHAEL KROL	25 HENLEY RD	ACTON	MA	01720
25 HENLEY RD BESIDE	B4-14-3	ELIZABETH KROL	MICHAEL KROL	25 HENLEY RD	ACTON	MA	01720
25 HENLEY RD BESIDE	B4-14-4	ELIZABETH KROL	MICHAEL KROL	25 HENLEY RD	ACTON	MA	01720

The owner of land sharing a common boundary or corner with the site of the proposed activity (100 feet) in any direction, including land located directly across a street, way, creek, river, stream, brook or canal. The above are as they appear on the most recent applicable taxes.

Kristen Caouett 21-Dec-10

Acton Assessors Office

AFFIDAVIT OF SERVICES
Under the Massachusetts Wetlands Protection Act
(to be submitted to the Massachusetts Department of Environmental Protection and the Conservation Commission when filing a Notice of Intent)

I, Evan Stidham, hereby certify under the pains and penalties of perjury that on 2/16/2011 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

> A Notice of Intent filed under the Massachusetts Wetlands Protection Act by Hawthorne Homes, LLC with the Acton Conservation Commission for property located at Nonset Path, Map B4, Parcel 12 including 20' wide easement on Map B5, Parcels 25-7, 25-8, & 25-9.

The form of the notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.

Name: Evan Stidham Date: 2/16/2011

NOTIFICATION TO ABUTTERS
UNDER THE TOWN OF ACTON WETLANDS PROTECTION BYLAW

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

The name of the applicant is Hawthorne Homes, LLC.
Address: 530 Great Road, Acton, MA, 01720; Phone: (978) 263-1125
has filed a Notice of Intent with the Acton Conservation Commission seeking permission to remove, fill, dredge, or alter an Area Subject to Protection under the Town of Acton Wetlands Protection Bylaw

Applicant's Representative: Stamski and McNary, Inc.
Address: 1000 Main Street; Acton, MA 01720 Phone: (978) 263-8585

The address of the property where the activity is proposed: Nonset Path.
Town Atlas Map/Parcel: Map B4, Parcel 12 including 20' easement on Map B5, Parcels 25-7, 25-8, & 25-9.

Project Description: A limited project to improve and extend an existing driveway within an abutting easement in the Buffer Zone of a BVW to cross over the wetlands with replication and drainage provided, in order to provide access to upland area on Parcel 12 from an existing public street.

Copies of the Notice of Intent may be examined at the Conservation Office, Acton Town Hall, 472 Main Street, Acton. Between the hours of 9:00 A.M. and 4:30 P.M. Monday through Friday. For more information, please call the Conservation Office at 978-264-9631.

A Public Hearing will be held at the Acton Town Hall, 472 Main Street, on Wednesday, March 2, 2011 at 7:15 P.M.

The notice of public hearing will be published at least five (5) days in advance in the Acton edition of the *Beacon* newspaper or *Metrowest Daily News*.

NOTE: You may also contact your local Conservation Commission for the information about this application or, the Town of Acton Wetlands Protection Bylaw.

Attachment A
Project Narrative

Existing Conditions

The site contains 7.2 acres of vacant land located within the Residence A District in Acton. The site is abutted by residential multifamily dwelling units to the west along Old Stone Brook and to the north along Pheasant Hill, which are private driveways within the Nagog Woods condominium development. Three single-family residential lots abut to the east along Nonset Path and five single-family residential lots abut to the south along Henley Road, which are public right-of-ways.

This site has two-hundred plus feet of frontage along Nonset Path, along with the benefit of a twenty-foot wide Right of Way and Utility Easement to Nonset Path across the abutting three lots. This site does not have any frontage or access from Henley Road near the middle of the site, nor does this site have any access rights across the abutting private driveways within Nagog Woods.

However, Nagog Woods has the benefit of an easement on this site known as "Use Area III" (see record plan), which is located primarily along the frontage to a depth of about three-hundred feet in addition to the strip along the perimeter of the site along the northern and western lot lines common with Nagog Woods.

The site features include a curb-cut along Nonset Path, a small active recreation area with soccer nets between the road and the wetlands (flags 1-21) which borders a drainage ditch. The drainage ditch crosses the site about two-hundred feet from the frontage. From this point the site returns to wooded uplands from wetflags (22-30) with a 6% grade up to a gravel path. The gravel path is within the upland and crosses the site from Old Stone Brook to Pheasant Hill about seven-hundred feet from the frontage. Existing utilities serving Nagog Woods are located across the site along and under this gravel path. Site runoff from the gravel path down to the frontage flows overland via sheet flow into the drainage ditch. The remainder of the site between the gravel path and the rear lot line is level woodland with a 2% grade. Site runoff from this wider rear lot area flows overland either off-site to the west but primarily into a catch basin at the end of the gravel path at the northern lot line of the site.

The drainage ditch begins at a headwall near flag #22 at the end of the closed Pheasant Hill drainage system to the north and ends at a culvert near flag #51 under Nonset Path to the south of the site.

An existing fifty-foot wide Utility Easement also begins at the northern front lot corner, crosses the wetland and drainage ditch and ends at the abutters parcel adjacent to Henley Road near the middle of the site.

The twenty-foot wide Right of Way Easement is located along the western side of the drainage ditch and contains the existing private driveway which is approximately 12' wide and serves 107, 109, and 111 Nonset Path. The entire driveway is within the Buffer Zone of Bordering Vegetated Wetlands (along flags 30-51). At the closest point (flags 32 & 40), the paved driveway is approximately 7' from the edge of the BVW. Existing utilities associated with this common driveway including water, electric and sewer lines are also within and along this easement. The area between the edge of driveway and our

site is primarily lawn with a small length of BVW (between flags 30 & 31). Runoff from this driveway and easement area also drains into the existing drainage ditch.

Project Description

The required work within the resource area and buffer zone is to provide private access from the public way to the upland area of the site. Local zoning allows within the RA District the construction of multifamily residential duplex units on a lot without the need for a subdivision road or special permit at a density of five units per acre. This site meets the dimensional requirements for frontage and minimum lot area to allow the development to proceed.

The two options available to the applicant for access locations to the upland are either from the frontage or from within the 20' wide right-of-way easement which both require filling and crossing the wetlands. We have proposed access from the easement since it will require less wetland filling than an access driveway that would begin at the frontage.

The purpose of this application as a limited project is to improve and extend the existing private driveway and existing sewer line within the Buffer Zone and partially in the BVW to provide suitable access and a sewer connection to the proposed dwellings within the upland area of Parcel 12. Drainage in accordance with the MA DEP Stormwater Management Policy has been provided which will include an Operation and Maintenance Plan for the driveway and drainage system in perpetuity.

Within the right-of-way and utility easement, the existing driveway will be expanded to a minimum width of 16' with shoulders. The driveway will require minor wetland filling (near flags 26-30) with replication provided (along flags 23-26) to cross the wetlands along its edge and turn towards the upland along the minimum practical turning radius. Approximately 1,827 s.f. of wetland replication is proposed to replace the 1,759 s.f. loss due to the driveway.

All dwelling unit locations are proposed outside of the buffer zone.

Resource Area Descriptions

The resource area on the site is Bordering Vegetated Wetland (BVW). The BVW is located to the north of the existing private driveway where access is proposed and was delineated by B & C Associates. The wetlands border on each side of the a drainage ditch which runs from Pheasant Hill across the site towards Nonset Path parallel to our frontage.

Streamlined Natural Heritage Project Description

The area of work is not located within an area of Estimated Habitat of Rare Wildlife as indicated on the most recent Estimated Habitat Map, Oct. 1, 2008.

Compliance with requirements for a Limited Project 310 CMR 10.53(3)(e):

The project complies with the requirements for a Limited Project because it is for construction and maintenance of a new roadway or driveway of minimum legal and practical width acceptable to the Planning Board, where reasonable alternative means of access from a public way to an upland area of the same owner is unavailable. The first access alternative is from the site's own frontage along Nonset Path. This option is prohibited by the greater amount of wetland filling that would be required and by the existing athletic fields easements. The second alternative means of access is through the right-of-way and utility easement off of Nonset Path as proposed by the applicant. This is the only other means of access to the upland area of Parcel 12 available to the applicant besides the street frontage. The remainder of the site is surrounded by private property; therefore there are no other reasonable alternative means available including a third alternative from Pheasant Hill and a fourth alternative from Old Stone Brook. Wetland replication area is proposed to compensate for the required fill area.

Compliance with General Performance Standards for BVW 310 CMR 10.55(4):

Notwithstanding the provisions of Section 10.53(3)(e), the project complies with the General Performance Standards of 10.55(4) as follows:

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

The area is presumed to be significant to the presumption set forth in 310 CMR 10.53(3).

B) *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:*

1. *The surface of the replacement area to be created ("the replacement area") shall be equal to that of the area that will be lost ("the lost area");*

   The proposed replication area is 1,827 square feet, which is greater than the lost area or fill area of 1,759 square feet.

2. *The ground water and surface elevation of the replacement area shall be approximately equal to that of the lost area;*

   The replacement area will be approximately within 1' in elevation of the filled area and be of the same general slope of the adjacent wetlands.

3. *The overall horizontal configuration and location of the replacement area with respect to the bank shall be similar to that of the lost area;*

The horizontal configuration of the replication area is similar to that of the lost area.

4. *The replacement area shall have an unrestricted hydraulic connection to the same water body or waterway associated with the lost area;*

The replacement has been designed with elevations that will provide an unrestricted hydraulic connection with the BVW. Also, notes on the wetland replication procedure require the removal of any earthen berm created between the replacement area and the BVW. A temporary disturbance will also be necessary to provide a connection from the proposed drainage outlet to the existing drainage ditch in similar fashion to the abutting drainage outfalls.

5. *The replacement area shall be located within the same general area of the water body or reach of the waterway as the lost area;*

The proposed replacement area is approximately 15' from the fill area.

6. *At least 75% of the surface of the replacement area shall be reestablished with indigenous wetland plant species within two growing seasons, and prior to said vegetative re-establishment any exposed soil in the replacement area shall be temporarily stabilized to prevent erosion in accordance with standard U.S. Soil Conservation Service methods.*

The replication area surface will be reestablished using indigenous wetland plant species such as Red Maple, Cinnamon Fern and Winterberry. A New England Wet Mix will be used to seed the replication area. Comprehensive construction methods have been prescribed on the design plans in accordance with this provision.

7. *The replacement area shall be provided in a manner which is consistent with all other General Performance Standards for each resource area in Part III of 310 CMR 10.00.*

The replication area will meet the General Performance Standards.

C) *The issuing authority may issue an Order of Conditions permitting work which results in the loss of a portion of the Bordering Vegetated Wetland.*

Full wetland replication is proposed; therefore, there will be no net loss of BVW.

D) *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.*

The site does not contain any Estimated Habitats of Rare Wildlife as indicated on the Natural Heritage and Endangered Species Program Natural Heritage Atlas October 1, 2008.

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 Secretary of Environmental Affairs under M.G.L.c.21A,§ 2(7) and 301 CMR 12.00.*

The site is not located with an Area of Critical Environmental Concern.

Town of Acton Wetlands Protection Bylaw and Regulations:

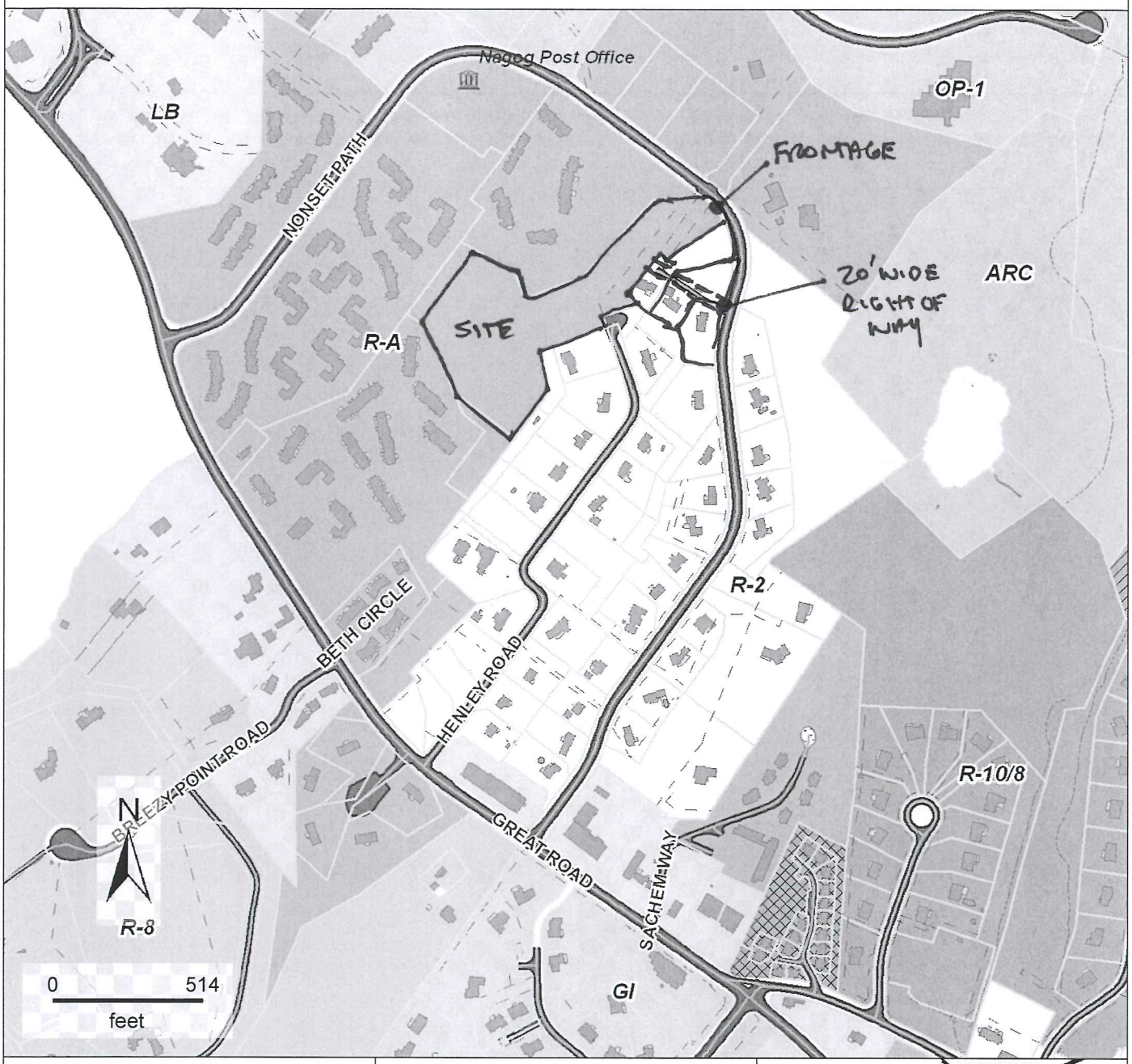
The proposed project complies with the Bylaw for setbacks for new activities. Per Section F8.3(1) a 0-foot setback is appropriate because the project is necessary for upland access where there is no reasonable alternative. The driveway is proposed at the minimum width and turning radius acceptable to the Planning Board in order to limit the necessary wetland filling. All wetland area filled will be replicated. Haybale siltation barriers will be utilized where appropriate to mitigate any potential erosion during construction. All soilstockpiles shall be located outside of the buffer zone. All stumps and construction debris and materials shall be removed from site and disposed of properly.

Sequence of Construction:

- Install DEP File Number Sign and have approved plans and Order on site.
- Install Erosion and Siltation Controls prior to any activity.
- Install sabilized construction entrance at end of existing driveway.
- Cut and remove existing vegetation on site.
- Stump and grub work area.
- Strip top and sub soil and stockpile outside of buffer zone.
- Prepare Replication Area per Section 4 of Wetland Bylaw Rules and Regulations.
- Install sewer main and drainage catch basins.
- Shape drainage basins and install all retaining walls along access drive crossing.
- Maintain all necessary sediment basins during construction process.
- Loam and seed all disturbed areas within buffer zone.
- Remove topsoil and organics along sides of existing driveway within easement.
- Saw-cut existing abutters driveways at edge of easement.
- Remove existing pavement and install gravel base per construction detail.
- Fine grade base and install binder course of pavement along entire driveway.
- Loam and seed all disturbed areas along shoulders.
- Construct dwellings on-site and Install finish course of pavement.

Summary:

The project has been designed to meet the performance standards of the Wetland Protection Act. The proposed driveway improvement and extension is the minimum width acceptable and has been designed to minimize wetland filling. Proper wetland replication will replace all filled areas and drainage has been provided per Ma DEP Stormwater Standards.



Property Information

Property ID

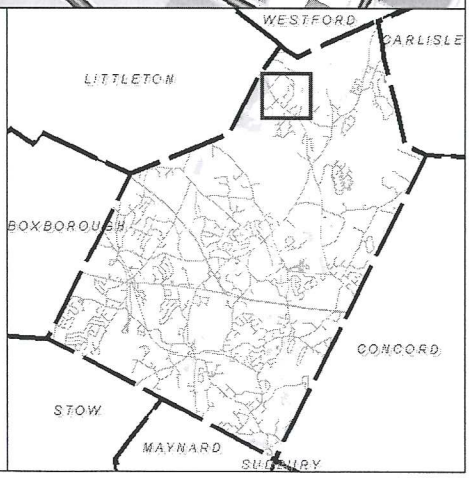
Location

NEIGHBORHOOD
GIS LOCUS MAP
JAN. 25, 2011
SAMUSKEI AND McNAMY, INC

INCORPORATED - 1735 ACTON

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

This data set/map is for planning purposes only and should not be used for larger scale analysis. The Town of Acton shall not be held liable for any use of the data or images shown on this map, nor is any warranty of accuracy expressed. All uses of this data set/map are subject to field verification.



Property Information

Property ID B4-12
Location 101 NONSET PA

PARCEL 12
GIS LOCUS MAP
JAN. 25, 2011
STAMSKI AND McNARY, INC

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

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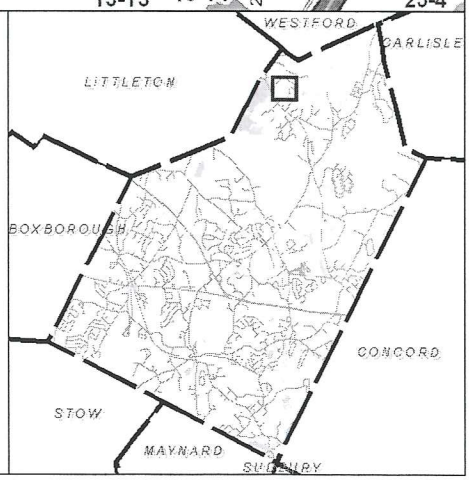
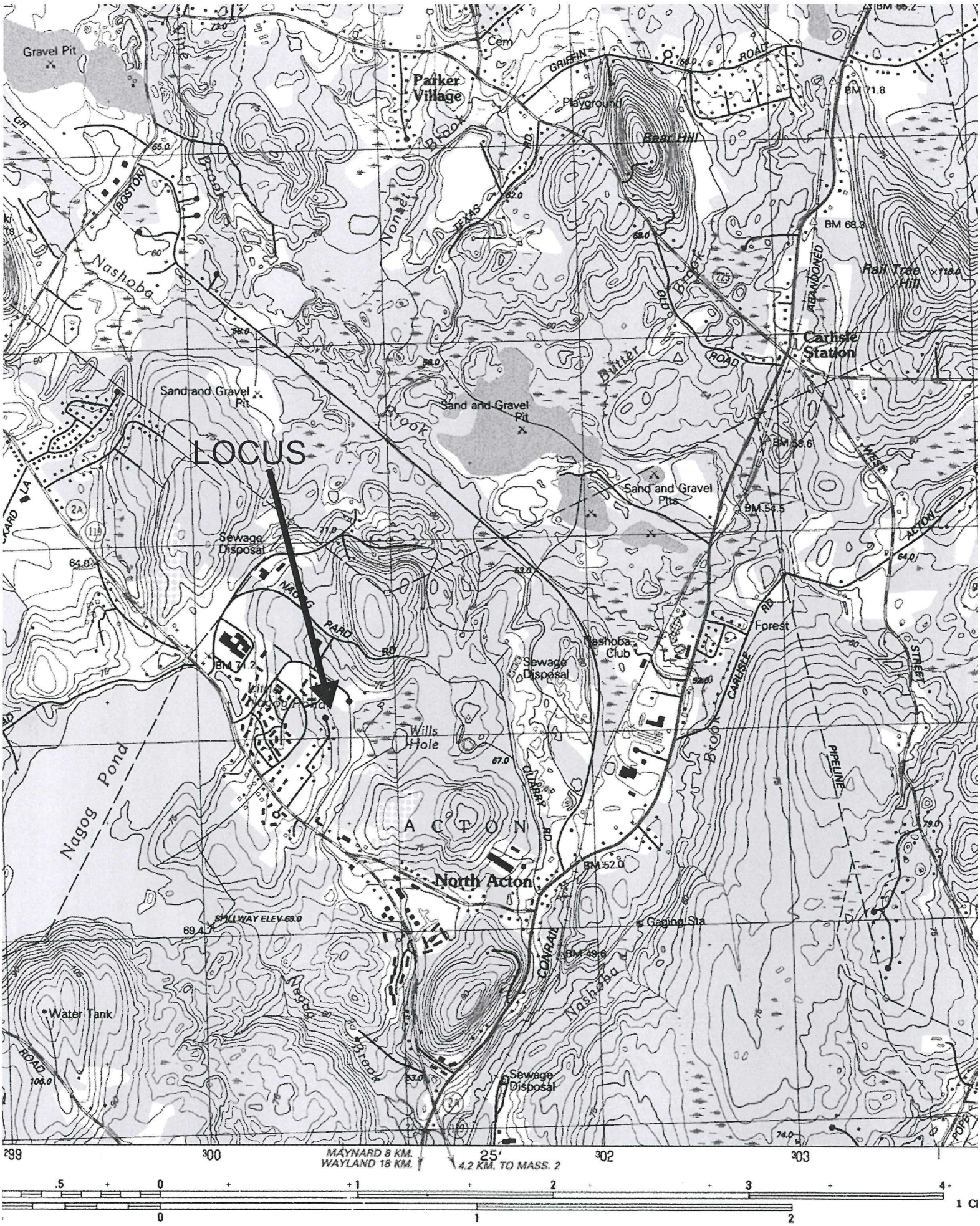


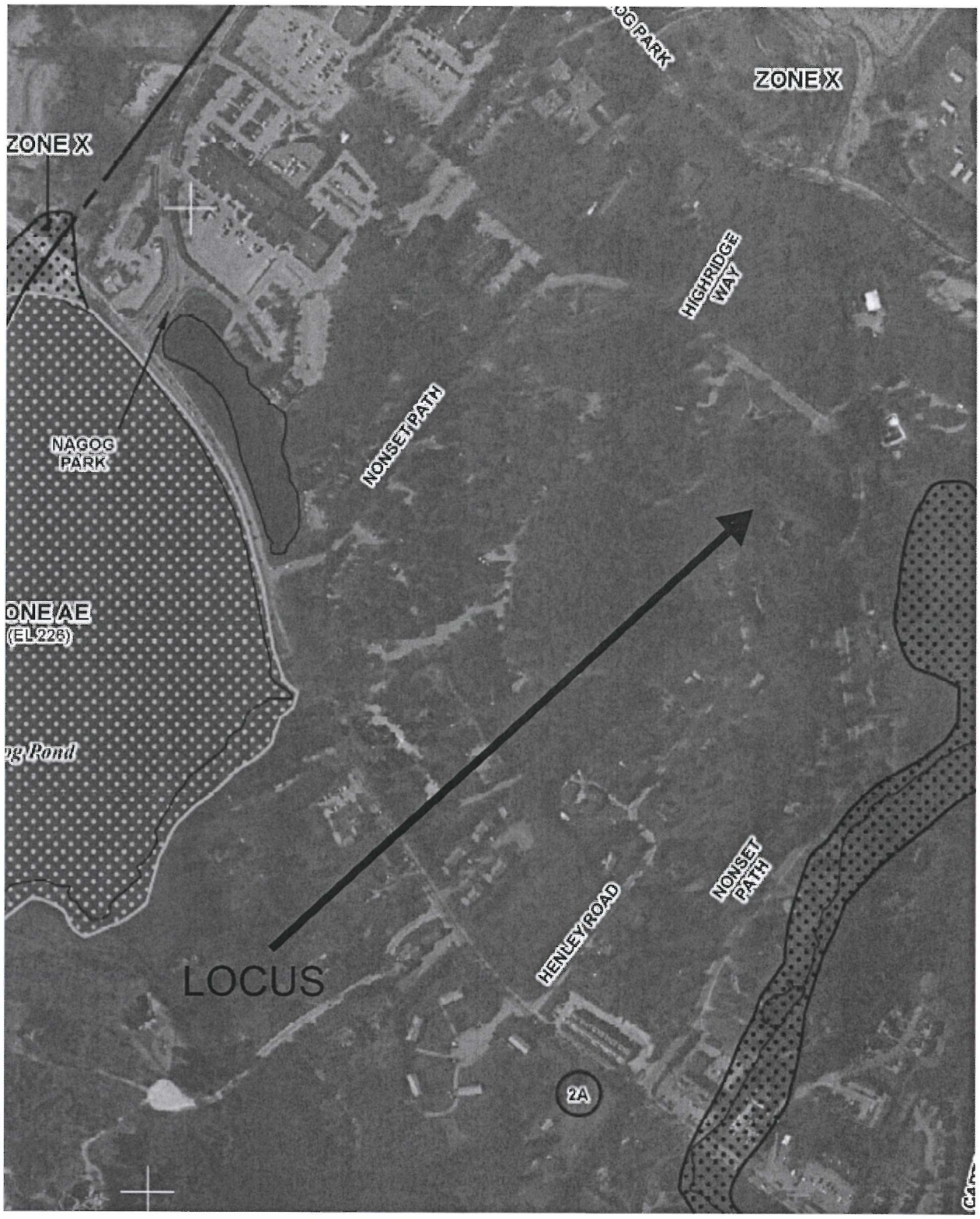
Attachment B
U.S.G.S. Map


LOCUS
Gravel Pit
Parker Village
Cem
Playground
GRIFFIN ROAD
Bear Hill
BM 71.8
BM 68.3
Rail Tree Hill
Carlisle Station
ABANDONED
Nonset Brook
Nashoba Brook
BOSTON
TEXAS RD
OLD ROAD
Butter Brook
Sand and Gravel Pit
Sand and Gravel Pits
BM 58.6
BM 54.5
Sewage Disposal
NAGOG PARD RD
BM 71.2
Nashoba Club
Forest
CARLISLE RD
ACTON
Wills Hole
Nagog Pond
CLARK RD
A C T O N
North Acton
BM 52.0
SPILLWAY ELEV 69.0
69.4
Gaging Sta
CONRAIL
BM 49.6
Nashoba Brook
Nagog Brook
Water Tank
ROAD
PIPELINE
299
300
25'
302
303
MAYNARD 8 KM.
WAYLAND 18 KM.
4.2 KM. TO MASS. 2

Attachment C
Massachusetts Natural Heritage Atlas 13th Edition

LOCUS

Attachment D
FEMA Flood Insurance Map


ZONE X
ZONE X
NAGOG PARK
NONSET PATH
HIGHRIDGE WAY
ONE AE
(EL 226)
g Pond
LOCUS
HENLEY ROAD
NONSET PATH
2A

Attachment E
Copy of Deeds and Record Plans

ASSESSORS PARCEL 12 (101 NONSET PATH)
LOT 17C.

BK 13640 PG099

R 11.75.
1.
12.75. — .41

Nagog Community Developers, Inc.

a corporation duly established under the laws of Massachusetts

and having its usual place of business at Worcester

Worcester County, Massachusetts, for consideration of $115,500.00 paid.

grant to Robert A. Peters, Trustee of Blackstone Middlesex Realty Trust u/d/t dated December 4, 1975, and recorded with Middlesex South Registry of Deeds at Book 13390, Page 648, of 21 Davis Road, Acton, Massachusetts

with quitclaim covenants

the land in Acton, Middlesex County, Massachusetts, described as follows:

Lots 17-C-4, 17-C-5, 17-C-6 and 18 on a plan entitled "Plan of Land on Great Road and Nonset Path in Acton, Mass." dated August 12, 1978 by Nolan Engineering Service which plan is to be recorded herewith. Said lots 17-C-4, 17-C-5, 17-C-6 are shown as lot 17C on a plan entitled "Plan of Land in Acton, Mass. Owner: Nagog Community Developers, Inc." W.A. Corsano, Jr., Surveyor, dated March 30, 1976 and recorded at Middlesex South Registry of Deeds in Book 13138, Page 411 and said lot 18 is also shown on said last-mentioned plan.

Together with the fee in and to that portion of Nonset Path as shown of the first mentioned plan running from Great Road (Route 2-A) to the point marked "End of Pavement" as shown on said Plans.

Together with all Grantor's rights and easements to use existing utility lines, drainage lines, sewer lines, and water lines serving the premises herein conveyed but subject to the rights and easements of others, including the grantor, to use such existing utility lines, drainage lines, sewer lines and water lines.

Said premises are further conveyed together with and subject to the following:

1. All Grantor's rights in Henley Road as shown on said Plans.

2. Covenant between the Town of Acton and Community Concepts Corporation dated February 16, 1971, and recorded with said Deeds at Book 11958, Page 230.

3. Terms and provisions of an Agreement dated July 30, 1970, recorded with said Deeds at Book 11894, Page 614.

4. Easement appurtenant in common with the Grantor dated March 23, 1970, recorded with said Deeds at Book 11894, Page 619.

5. Taking by the Commonwealth of Massachusetts recorded with said Deeds at Book 6404, Page 1.

6. Terms and provisions of a deed between Community Concepts Corporation and Trustees of Nagog Woods Trust recorded with said Deeds at Book 12143, Page 731.

7. Order of Conditions entered by the Acton Conservation Commission recorded with said Deeds at Book 13432, Page 610.

8. Declaration of Restrictive Covenants dated February 7, 1977, recorded with said Deeds at Book 13138, Page 427.

9. Water Agreement with the Town of Acton dated October 2, 1972, recorded with said Deeds at Book 12345, Page 670, as amended by Amendment dated May 14, 1974, and recorded with said Deeds at Book 12633, Page 191.

1:30 172RE**12.75
BK 13640 PAGE 099

10. Instrument of Approval by the Town of Acton Board of Health and the Massachusetts Department of Public Health dated March 21, 1972, recorded in said Deeds Book 12195, Page 022.

11. Easement to New England Telephone & Telegraph Company et al dated December 6, 1973, recorded with said Deeds Book 12600, Page 256, to the extent still in force and applicable.

12. Reserved rights and easements, to the extent in force and applicable, contained in Master Deeds creating the following Condominiums:

    (a) Master Deed creating Nagog Woods Condominium I dated September 18, 1972, recorded on September 21, 1972, at Middlesex South Registry of Deeds at Book 12293, Page 27.

    (b) Master Deed creating Nagog Woods Condominium II dated December 4, 1972, recorded on December 28, 1972, at Middlesex South Registry of Deeds at Book 12354, Page 231.

    (c) Master Deed creating Nagog Woods Condominium III dated May 16, 1973, recorded on May 24, 1973, at Middlesex South Registry of Deeds at Book 12439, Page 542.

    (d) Master Deed creating Nagog Woods Condominium IV dated May 28, 1974, recorded on August 16, 1974, at Middlesex South Registry of Deeds at Book 12686, Page 27.

13. Rights and easements of others to use the areas marked "A" and "S" as shown on a plan entitled: "Plan of Land in Acton, Mass." dated January 15, 1970, by Acton Survey & Engineering, Inc., recorded in Middlesex South Registry of Deeds at the end of Book 11833 as Plan No. 466 of 1970.

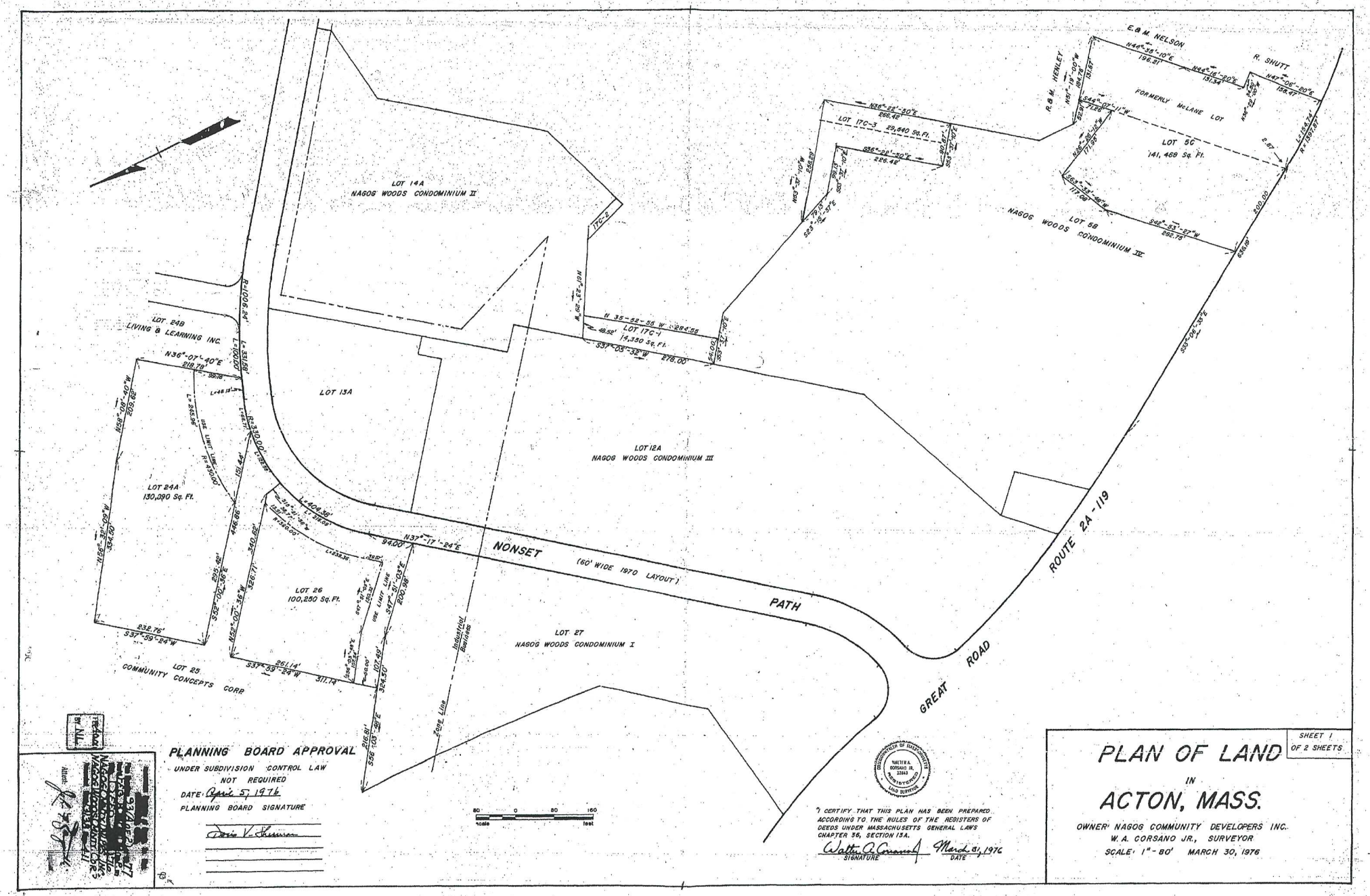
14. Extension permit issued by the Commonwealth of Massachusetts Department of Natural Resources relating to Order of Conditions No. P-1704, which extension permit is recorded at Middlesex South Registry of Deeds at Book 12581, Page 115.

COMMONWEALTH OF MASSACHUSETTS
MIDDLESEX SS. REGISTRY OF DEEDS
Cancelled
FEB 8 '79
Entered
Examined
2 6 3 3 4

In Witness whereof, the said Nagog Community Developers, Inc. has caused its corporate seal to be hereto affixed and these presents to be signed, acknowledged and delivered in its name and behalf by Gerald R. Mueller its President hereto duly authorized, this 8th day of February in the year one thousand nine hundred and seventy-nine.

Signed and sealed in presence of

NAGOG COMMUNITY DEVELOPERS, INC.
by
Gerald R. Mueller, President



PLANNING BOARD APPROVAL

UNDER SUBDIVISION CONTROL LAW
NOT REQUIRED

DATE: April 5, 1976

PLANNING BOARD SIGNATURE

Doris V. Shannon

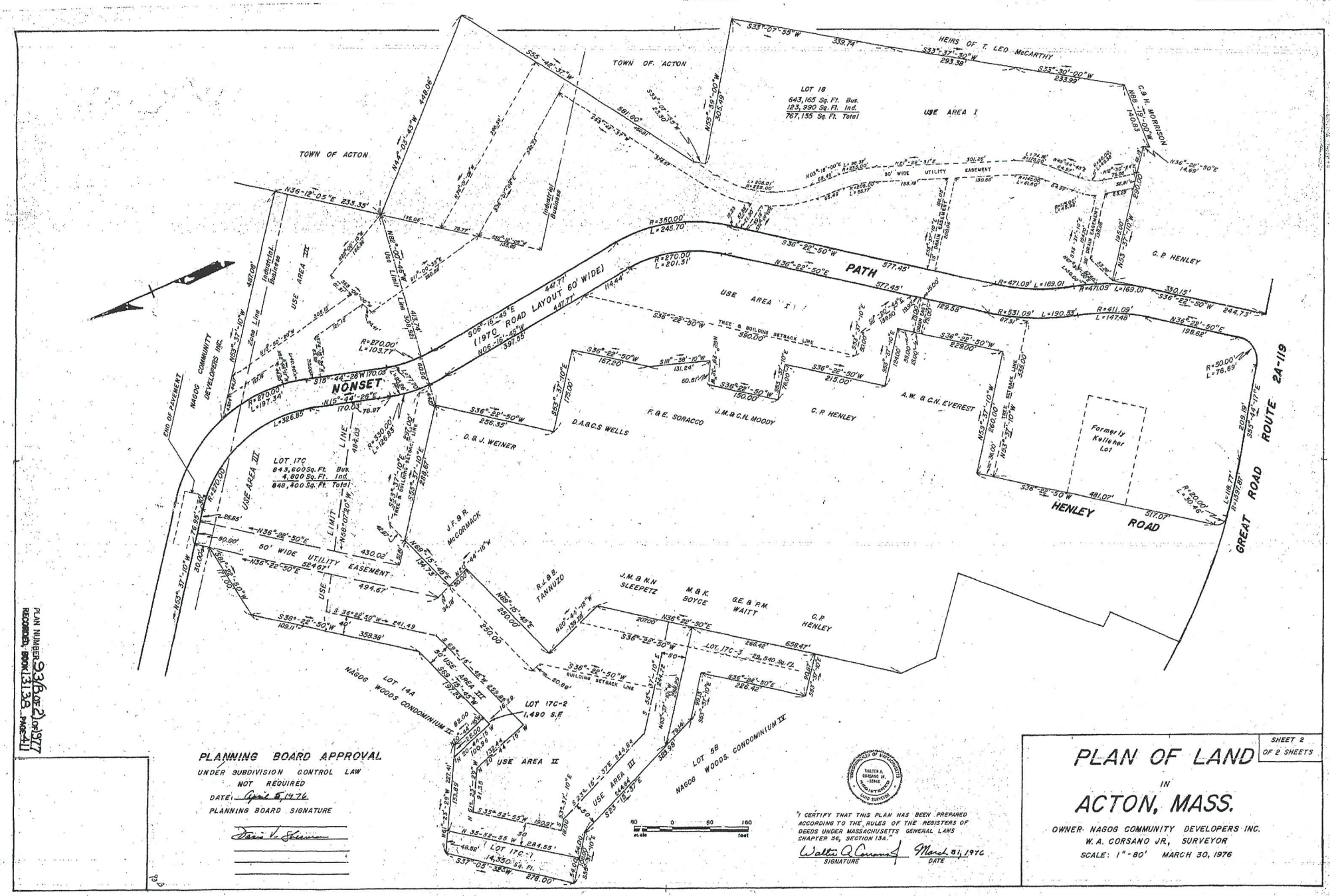
"I CERTIFY THAT THIS PLAN HAS BEEN PREPARED ACCORDING TO THE RULES OF THE REGISTERS OF DEEDS UNDER MASSACHUSETTS GENERAL LAWS CHAPTER 36, SECTION 13A.

Walter A. Corsano Jr. — March 31, 1976
SIGNATURE — DATE

SHEET 1 OF 2 SHEETS

PLAN OF LAND
IN
ACTON, MASS.

OWNER: NAGOG COMMUNITY DEVELOPERS INC.
W. A. CORSANO JR., SURVEYOR
SCALE: 1" = 80' MARCH 30, 1976



PLAN NUMBER 936 OF 2 OF 1977
RECORDED, BOOK 13138 PAGE 41

PLANNING BOARD APPROVAL
UNDER SUBDIVISION CONTROL LAW
NOT REQUIRED
DATE: April 6, 1976
PLANNING BOARD SIGNATURE

"I CERTIFY THAT THIS PLAN HAS BEEN PREPARED ACCORDING TO THE RULES OF THE REGISTERS OF DEEDS UNDER MASSACHUSETTS GENERAL LAWS CHAPTER 36, SECTION 13A."
Walter A. Corsano Jr. — SIGNATURE
March 31, 1976 — DATE

SHEET 2 OF 2 SHEETS

PLAN OF LAND
IN
ACTON, MASS.

OWNER: NAGOG COMMUNITY DEVELOPERS INC.
W. A. CORSANO JR., SURVEYOR
SCALE: 1" = 80' MARCH 30, 1976

ASSESSORS PARCELS 25-7
25-8
25-9

BK 15137 PG 128

R25 ✓
(1ST DEED OUT)

Robert A. Peters, Trustee of Blackstone Middlesex Realty Trust u/d/t dated December 4, 1975, and recorded with Middlesex South Registry of Deeds at Book 13390, Page 648,

of Acton Middlesex County, Massachusetts,

, for the full consideration of $400,000.00 paid

grant to Richard Sisson

of 334 Central Street, Acton, Massachusetts

with **quitclaim covenants** the land in Acton, Middlesex County, Massachusetts being shown as Lots 5, 6, 7, 8, 9, 10, 11, 12, 13A, 13B, 14, 15, 16, 25, 26, 27 and 28 on a plan entitled "Record Plan of Land on Nonset Path Great Road and Henley Road, Acton, Mass." dated July 18, 1980, drawn by Nolan Engineering Service, 21 Davis Road, Acton, MA 01720, and recorded in Middlesex South District Registry of Deeds Book 14184, Page 114, to which plan reference may be had for a further description of said lots.

Also, the land situated in Acton, Middlesex County, Massachusetts being shown as lots 19, 20, 21, 22 and 23 on a plan entitled "Record Plan of Land on Nonset Path, Great Road and Henley Road, Acton, Mass." scale 1' = 40' dated March 31, 1983 drawn by Nolan Engineering Service, 21 David Road, Acton, Mass. 01720, to be recorded herewith and to which plan reference may be had for a more particular description.

Also the fee in and to that portion of Nonset Path as shown on said plans running from Great Road (Route 2-A) as far as said road is shown on said plan, reserving to the grantor its successors and assigns the right to use said Nonset Path for all purposes for which streets and ways are used in the Town of Acton.

Providing that the grantors use does not unreasonably interfere with the use and enjoyment of the premises, granted herein, by the grantee, his successors and assigns, the grantor reserves for himself and his successors and assigns for the benefit of his remaining land shown on the afforementioned plans, the right to use all "utility easements", "drain easements", and "right of way and utility easements", as shown on the afforementioned plans for the purposes for which they were intended,* which are now located or which may be located in Nonset Path, and also reserving the right to use drain, sewer and water lines which are now located in Nonset Path in common with others lawfully entitled to use the same so long as said use does not unreasonably interfere with the use of the same by the grantee, his successors and assigns. *further reserving the right to use existing and future utility lines

The premises are conveyed subject to and with the benefit of the following agreements, rights, restrictions and easements:

1. Easement to use existing utility lines, drainage lines, sewer lines and water lines as set forth in that certain grant to Robert A. Peters, Trustee of Blackstone Middlesex Realty Trust, dated February 8, 1979, recorded February 8, 1979 in Book 13640, Page 99, said Deeds.

2. Rights of others in Henley Road as set forth in that certain grant to Robert A. Peters, Trustee of Blackstone Middlesex Realty Trust, dated February 8, 1979, recorded February 8, 1979 in Book 13640, Page 99, said Deeds.

3. Covenants between the Town of Acton and Community Concepts Corporation, dated February 16, 1971, recorded February 19, 1979 in Book 11958, Page 230, said Deeds, as effectively approved by Town of Acton, Board of Health and Massachusetts Department of Health, dated March 21, 1972, recorded April 28, 1972 in Book 12195, Page 22, said Deeds.

4. Terms and Provisions of an Agreement dated July 30, 1970 recorded September 24, 1970 in Book 11894, Page 614, said Deeds, as affected by Amendment and Release, dated February 13, 1981 recorded in Book 14256, Page 558, said Deeds.

GRANTEE(S) ADDRESS:

SEE PLAN IN RECORD BOOK 15137 PAGE 221 12.5

5. Easement as set forth in that certain grant, dated March 23, 1970, recorded September 24, 1970 in Book 11894, Page 619 said Deeds.

6. Taking of Great Road by Commonwealth of Massachusetts Department of Public Works, dated June 11, 1970 recorded June 24, 1940 in Book 6404, Page 1, said Deeds.

7. Rights of others in Nonset Path as set forth in that certain deed between Community Concepts Corporation and Trustees of Nagog Woods Trust, dated January 14, 1972 recorded January 17, 1972 in Book 12143, Page 731, said Deeds.

8. Order of Conditions under Wetlands Protection Act, dated April 18, 1978 recorded May 2, 1978 in Book 12432, Page 10, said Deeds.

9. Declaration of Restrictive Covenants dated February 7, 1977 recorded February 8, 1977 in Book 13138, Page 427, said Deeds.

10. Agreement with Water Supply District of Acton To Pay Demand Charge dated October 12, 1972 recorded December 13, 1972 as amended by First Amendment dated May 14, 1974 recorded May 20, 1974 in Book 12633, Page 191, said Deeds.

11. Easement granted to Boston Edison Company and New England Telephone and Telegraph Company, as set forth in that certain instrument dated December 6, 1972 recorded March 14, 1974 in Book 12600, Page 256, said Deeds.

12. Order of Conditions issued by the Commonwealth of Massachusetts Department of National Resources, dated April 5, 1972 recorded in Book 12191, Page 607, said Deeds, as effected by Extension Permit dated April 24, 1973 recorded January 21, 1974 in Book 12581, Page 115, said Deeds.

13. Easement granted to Nagog Treatment Corporation by that certain instrument dated February 8, 1979 recorded February 8, 1979 in Book 13640, Page 103, said Deeds.

14. Sewage Treatment Agreement between Nagog Treatment Corporation and Robert A. Peters, Trustee of Blackstone Middlesex Realty Trust, dated February 8, 1979 recorded February 8, 1979 in Book 13640, Page 104, said Deeds.

15. Rights and easements of others to use the areas marked "A" and "S" as shown on a plan entitled "Plan of Land in Acton, Mass." dated January 15, 1970, by Acton Survey and Engineering, Inc. recorded at the end of Book 11833, as Plan No. 466, of 1970, said Deeds.

16. Access Easement as set forth in that certain deed from Robert A. Peters, Trustee of Blackstone Middlesex Realty Trust to Curt R. Feuer and Gerald R. Simches, Trustees of Nonset Trust, recorded April 1, 1980 in Book 13935, Page 49, said Deeds.

17. Easement from Robert A. Peters, Trustee of Blackstone Middlesex Realty Trust to Boston Edison Company and New England Telephone and Telegraph Company, recorded April 10, 1980 in Book 13942, Page 124, said Deeds.

18. Extension Permit under WETLAND PROTECTION ACT, dated May 22, 1980 recorded June 16, 1980 in Book 13988, Page 278, said Deeds.

19. Easements and other matters as shown on "Record Plan of Land on Nonset Path, Great Road and Henley Road, Acton, Mass." dated July 18, 1980, Nolan Engineering Service, recorded in Book 14184, Page 114, said Deeds.

20. Restriction agreement dated January 5, 1981 recorded in Book 14184, Page 114, said Deeds.

Being part of the premises conveyed in deed of Nagog Community Developers, Inc. dated February 8, 1979 and recorded with Middlesex South District Registry of Deeds, in Book 13640, Page 99.

Cancelled

$12.00

OCRC

Executed as a sealed instrument this 26th day of July 1983

Robert A. Peters, Trustee as aforesaid

The Commonwealth of Massachusetts

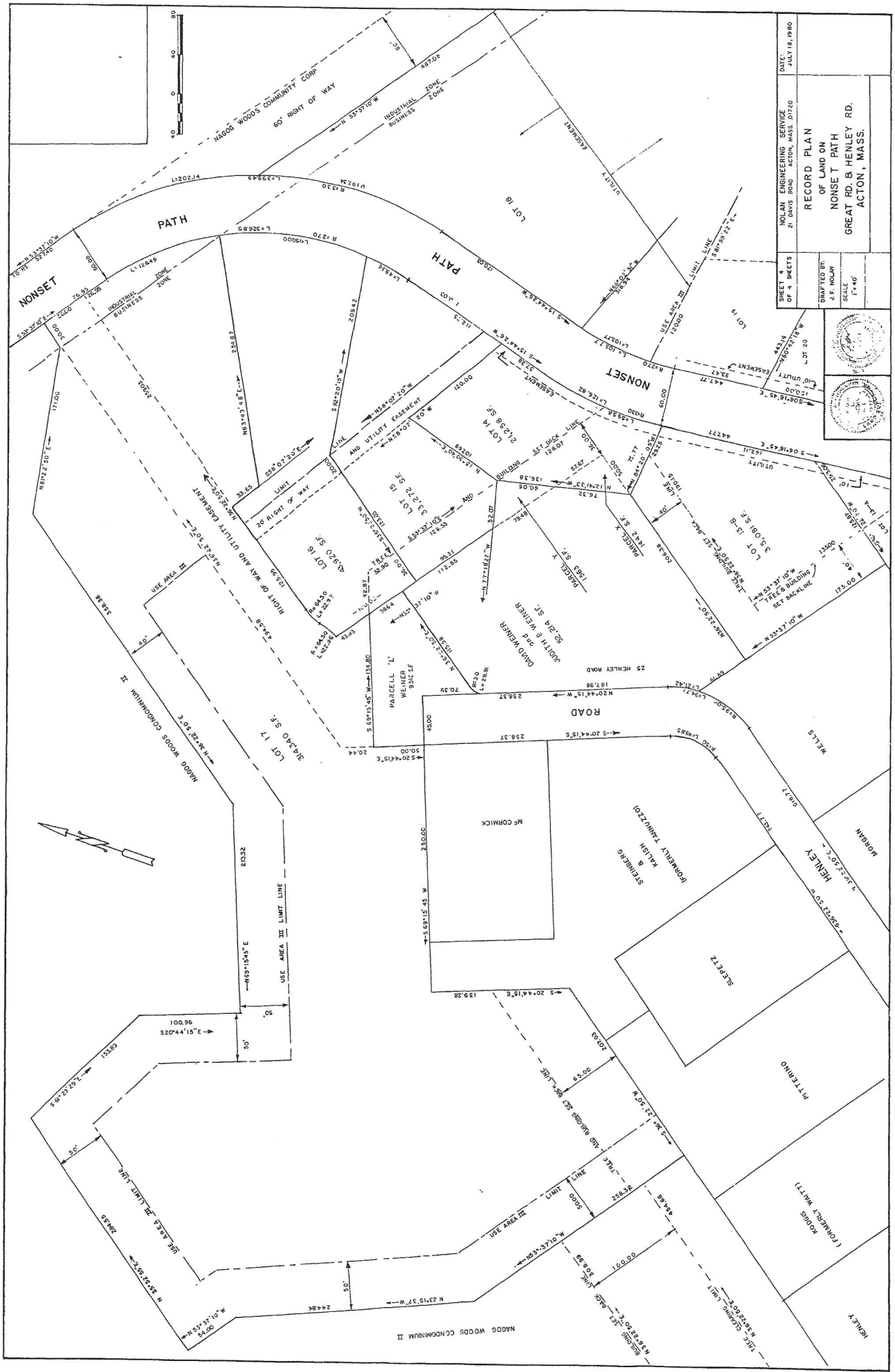
Middlesex, ss. July 26, 1983

Then personally appeared the above named Robert A. Peters, Trustee as aforesaid

and acknowledged the foregoing instrument to be his free act and deed, before me

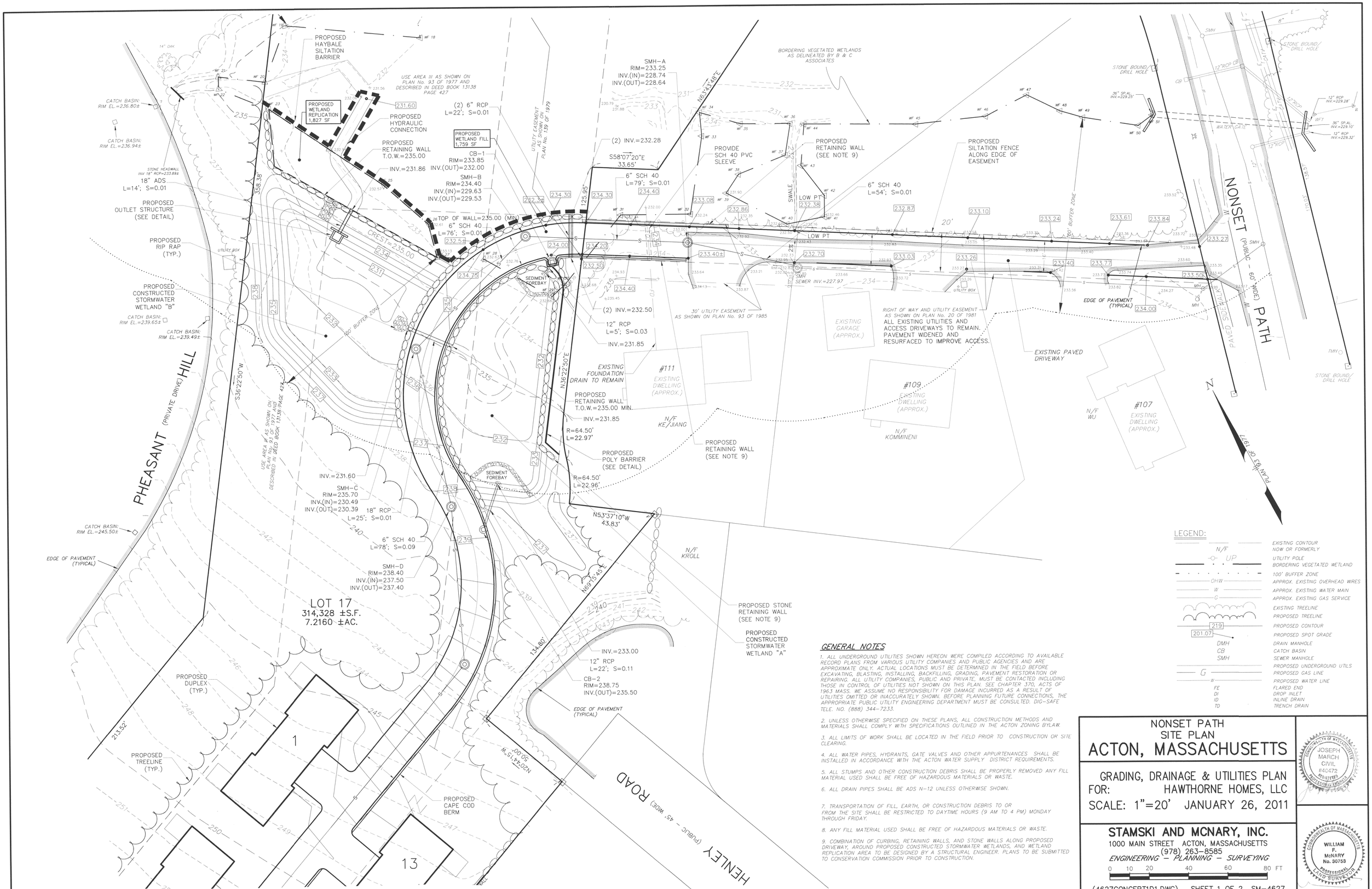
Leon Richard LeClair, Jr. Notary Public

My commission expires May 25, 1984



BOOK NUMBER 20(D of E) of 1981
RECORDED BOOK 14184 PAGE 114

Attachment F
Site Plan by Stamski and McNary, Inc.



LEGEND:

	EXISTING CONTOUR
N/F	NOW OR FORMERLY
UP	UTILITY POLE
	BORDERING VEGETATED WETLAND
	100' BUFFER ZONE
OHW	APPROX. EXISTING OVERHEAD WIRES
W	APPROX. EXISTING WATER MAIN
G	APPROX. EXISTING GAS SERVICE
	EXISTING TREELINE
	PROPOSED TREELINE
219	PROPOSED CONTOUR
201.07	PROPOSED SPOT GRADE
DMH	DRAIN MANHOLE
CB	CATCH BASIN
SMH	SEWER MANHOLE
	PROPOSED UNDERGROUND UTILS
G	PROPOSED GAS LINE
W	PROPOSED WATER LINE
FE	FLARED END
DI	DROP INLET
ID	INLINE DRAIN
TD	TRENCH DRAIN

GENERAL NOTES

1. ALL UNDERGROUND UTILITIES SHOWN HEREON WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE CHAPTER 370, ACTS OF 1963 MASS. WE ASSUME NO RESPONSIBILITY FOR DAMAGE INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS, THE APPROPRIATE PUBLIC UTILITY ENGINEERING DEPARTMENT MUST BE CONSULTED. DIG-SAFE TELE. NO. (888) 344-7233.

2. UNLESS OTHERWISE SPECIFIED ON THESE PLANS, ALL CONSTRUCTION METHODS AND MATERIALS SHALL COMPLY WITH SPECIFICATIONS OUTLINED IN THE ACTON ZONING BYLAW.

3. ALL LIMITS OF WORK SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION OR SITE CLEARING.

4. ALL WATER PIPES, HYDRANTS, GATE VALVES AND OTHER APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE ACTON WATER SUPPLY DISTRICT REQUIREMENTS.

5. ALL STUMPS AND OTHER CONSTRUCTION DEBRIS SHALL BE PROPERLY REMOVED ANY FILL MATERIAL USED SHALL BE FREE OF HAZARDOUS MATERIALS OR WASTE.

6. ALL DRAIN PIPES SHALL BE ADS N-12 UNLESS OTHERWISE SHOWN.

7. TRANSPORTATION OF FILL, EARTH, OR CONSTRUCTION DEBRIS TO OR FROM THE SITE SHALL BE RESTRICTED TO DAYTIME HOURS (9 AM TO 4 PM) MONDAY THROUGH FRIDAY.

8. ANY FILL MATERIAL USED SHALL BE FREE OF HAZARDOUS MATERIALS OR WASTE.

9. COMBINATION OF CURBING, RETAINING WALLS, AND STONE WALLS ALONG PROPOSED DRIVEWAY, AROUND PROPOSED CONSTRUCTED STORMWATER WETLANDS, AND WETLAND REPLICATION AREA TO BE DESIGNED BY A STRUCTURAL ENGINEER. PLANS TO BE SUBMITTED TO CONSERVATION COMMISSION PRIOR TO CONSTRUCTION.

NONSET PATH SITE PLAN
ACTON, MASSACHUSETTS

GRADING, DRAINAGE & UTILITIES PLAN
FOR: HAWTHORNE HOMES, LLC
SCALE: 1"=20' JANUARY 26, 2011

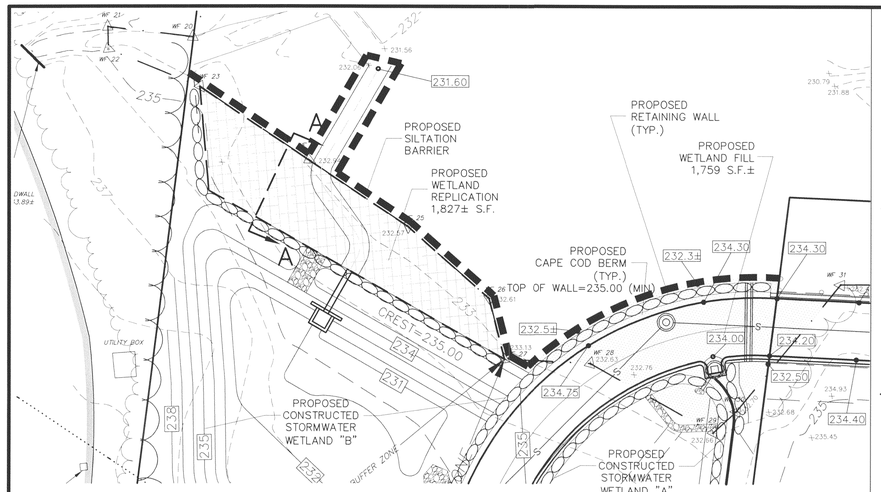
STAMSKI AND MCNARY, INC.
1000 MAIN STREET ACTON, MASSACHUSETTS
(978) 263-8585
ENGINEERING - PLANNING - SURVEYING

0 10 20 40 60 80 FT

(4627CONCEPT1D1.DWG) SHEET 1 OF 2 SM-4627

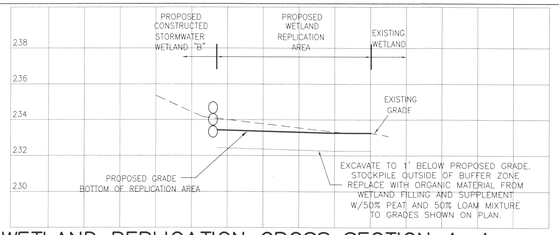
COMMONWEALTH OF MASSACHUSETTS JOSEPH MARCH CIVIL #40472 REGISTERED PROFESSIONAL ENGINEER

COMMONWEALTH OF MASSACHUSETTS WILLIAM F. McNARY No. 30753 PROFESSIONAL LAND SURVEYOR



NOTE:
FINAL GRADES IN REPLICATION AREA MAY BE MODIFIED IN FIELD BY WETLAND SPECIALIST

PLAN VIEW: SCALE: 1"= 20'



WETLAND REPLICATION CROSS SECTION A–A

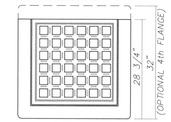
SCALE: 1"= 10' H., 1"= 4' V.

CONSTRUCTION SEQUENCE FOR WETLAND CROSSING

1. INSTALL EROSION CONTROL BARRIER PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AT ALL LOCATIONS SHOWN ON THE PLANS. SET HAYBALES LINES IN THE LOCATIONS SPECIFIED BY THE DESIGN ENGINEER.
2. NOTIFY CONSERVATION COMMISSION 48 HOURS PRIOR TO STARTING DATE OF CONSTRUCTION.
3. CLEAR AND GRUB AREA WITHIN WETLAND CROSSING AND DESIGNATED AREA FOR WETLAND REPLICATION.
4. EXCAVATE MATERIAL WITHIN WETLAND REPLICATION AREA TO ONE (1) FOOT BELOW GRADES SHOWN ON PLAN. STOCKPILE EXCAVATED MATERIAL OUTSIDE OF THE 100' BUFFER ZONE.
5. STRIP ORGANIC MATERIAL FROM AREA WITHIN WETLAND CROSSING AND SPREAD EXCAVATED ORGANIC MATERIAL OVER WETLAND REPLICATION AREA TO THE GRADES SHOWN ON THE PLAN. COMPLETE WETLAND REPLICATION AREA IN COMPLIANCE WITH "CONSTRUCTION SEQUENCE FOR WETLAND REPLICATION AREA".
6. INSTALL SEWER MAIN.
7. INSTALL GAS LINE.
8. INSTALL HEADWALLS AND CULVERT.
9. PLACE AND COMPACT GRAVEL FILL FOR PROPOSED ROADWAY WITHIN WETLAND CROSSING TO THE GRADES SHOWN ON THE PLAN.
10. STABILIZE SLOPES IN WETLAND FILL AREA WITH 6" OF LOAM AND HYDROSEEDING.
11. INSTALL OTHER PROPOSED UNDERGROUND UTILITIES.
12. INSTALL DRIVEWAY SURFACE TO THE WIDTH SHOWN ON THE PLAN.
13. LOAM AND SEED ALL DISTURBED SURFACES WHICH HAVE NOT BEEN STABILIZED.
14. REMOVE EROSION CONTROL BARRIERS AFTER ALL VEGETATION IS ESTABLISHED AND THE APPROVING AUTHORITY HAS ISSUED A CERTIFICATE OF COMPLIANCE.

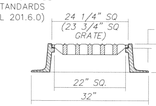
CONSTRUCTION SEQUENCE FOR WETLAND REPLICATION AREA

1. INSTALL AND MAINTAIN EROSION AND SILTATION BARRIERS ON THE EDGE OF THE EXISTING WETLAND ADJACENT TO PROPOSED REPLICATION AREA AND ADJACENT TO THE PROPOSED ROADWAY CROSSING OF THE WETLAND.
2. EXCAVATE AND GRADE THE REPLICATION AREA TO A DEPTH OF APPROXIMATELY ONE FOOT BELOW THE GRADES SHOWN ON THE REPLICATION AREA PLAN.
3. EXCAVATION OF WETLAND AREA TO BE DISTURBED BY ROADWAY CONSTRUCTION SHALL OCCUR AFTER THE REPLICATION WETLAND HAS BEEN EXCAVATED TO SUBGRADE. THE TOPSOIL OR PEAT FROM THE FILL AREA SHALL BE TRANSFERRED DIRECTLY TO THE REPLICATION AREA. DO NOT REMOVE VEGETATION, SHRUBS, ROOTBALLS, OR SMALL TREE STUMPS. TRIM VEGETATION TO MAKE IT WORKABLE. PLACE ALL ROOT CLUSTERS IN REPLICATION AREA. STOCKPILING OF MATERIAL SHALL BE ALLOWED ONLY TEMPORARILY. ADDITIONAL FILL REQUIRED TO BRING REPLICATION AREA TO GRADE SHALL BE COMPOSED OF A 25% PEAT AND 75% LOAM MIXTURE.
4. THE REPLICATION AREA SHOULD BE GRADED TO BE LEVEL WITH ADJACENT NATURAL WETLAND. HAND LEVELING AND RAKING SHALL BE USED TO AVOID SOIL COMPACTION. ANY POTHOLES OR DEPRESSIONS SHOULD BE FILLED TO AVOID STAGNANT PUDDLES. ANY BERMS RESULTING BETWEEN THE CREATED AND NATURAL WETLAND SHOULD BE REMOVED TO ALLOW AN UNRESTRICTED HYDRAULIC CONNECTION.
5. SIDE SLOPES AT THE REPLICATION AREA SHALL NOT EXCEED A 2:1 SLOPE AND SHALL IMMEDIATELY BE LOAMED AND SEEDED.
6. AFTER THE REPLICATION AREA HAS BEEN GRADED, STAKED HAYBALES SHALL BE PLACED BETWEEN THE REPLACEMENT AREA AND ANY DISTURBED UPLAND AREAS TO PREVENT SILTATION OF THE REPLICATION AREA.
7. IF AFTER ONE GROWING SEASON, WETLAND VEGETATION HAS NOT BECOME ESTABLISHED BY NATURAL COLONIZATION, A WETLAND REPLICATION AREA PLANTING PLAN SHALL BE CARRIED OUT UNDER THE SUPERVISION OF THE CONCORD NATURAL RESOURCES COMMISSION AND SHALL CONSIST OF THE FOLLOWING:
   A. A 25% PEAT AND 75% LOAM MIXTURE SHALL BE HAND SPREAD THROUGHOUT THE REPLICATION AREA TO A 4" THICKNESS.
   B. THE REPLICATION AREA SHALL THEN BE PLANTED WITH AN EQUAL DISTRIBUTION OF RED MAPLE SAPLINGS, HIGH BUSH BLUEBERRY, SWEET PEPPERBUSH AND CINNAMON FERN, SET AT 5' RANDOM SPACINGS.
   C. THE REPLICATION AREA SHALL THEN BE SEEDED WITH A HYDROPHILIC GRASS MIXTURE OF REDTOP, BLUEJOINT AND SWITCHGRASS, AT A RATE OF 1LB. PER 1,000 S.F.
8. THE REPLICATION AREA (EITHER VEGETATED NATURALLY OR WITH COMMERCIALLY PURCHASED SUPPLEMENTS) SHOULD BE INSPECTED AT THE END OF THE FIRST AND SECOND GROWING SEASONS. REPLANTING AND REPAIRS SHOULD BE SCHEDULED AS NEEDED TO PROVIDE ADEQUATE COVER.



TO CONFORM TO MASS HIGHWAY STANDARDS (SEE DETAIL 201.6.0)

PLAN VIEW



SECTION VIEW

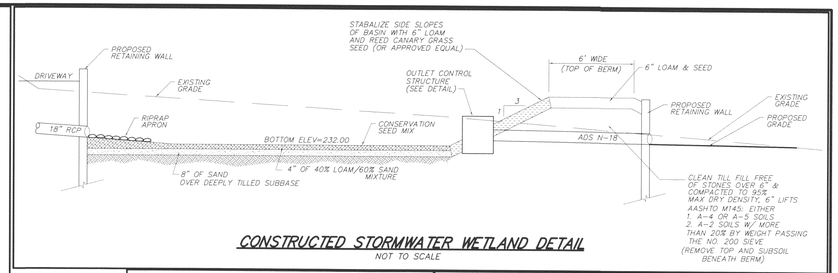
FRAME: LEBARON LF244-2
GRATE: LEBARON L24SG17

SINGLE CATCH BASIN

FULLY MACHINED AND INTERCHANGABLE FRAMES AND COVERS.
HIGH QUALITY MATERIALS AND WORKMANSHIP.
COAL TAR EPOXY PAINTED.
NO ROCK COVERS.
H-20 LOADING RATE
3 FLANGE FRAMES TO BE USED WITH CURB INLET

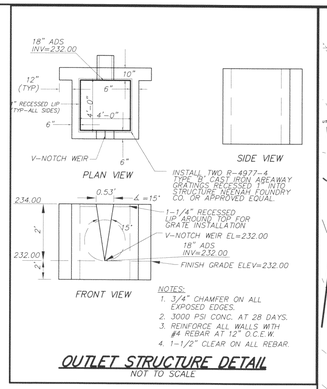
CATCH BASIN FRAME AND GRATE

NOT TO SCALE



CONSTRUCTED STORMWATER WETLAND DETAIL

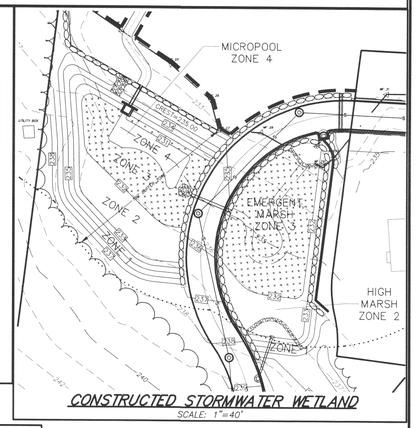
NOT TO SCALE



NOTES:
1. 3/4" CHAMFER ON ALL EXPOSED EDGES.
2. 3000 PSI CONC. AT 28 DAYS.
3. REINFORCE ALL WALLS WITH #4 REBAR AT 12" O.C.E.W.
4. 1-1/2" CLEAR ON ALL REBAR.

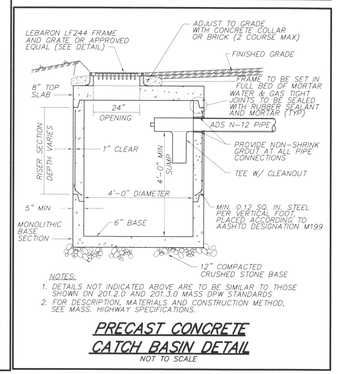
OUTLET STRUCTURE DETAIL

NOT TO SCALE



CONSTRUCTED STORMWATER WETLAND

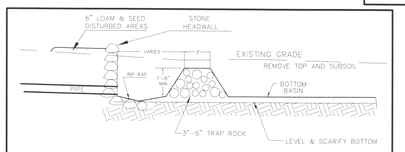
SCALE: 1"=40'



NOTES:
1. DETAILS NOT INDICATED ABOVE ARE TO BE SIMILAR TO THOSE SHOWN ON 201.2.0 AND 201.3.0 MASS DPW STANDARDS
2. FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHOD, SEE MASS. HIGHWAY SPECIFICATIONS.

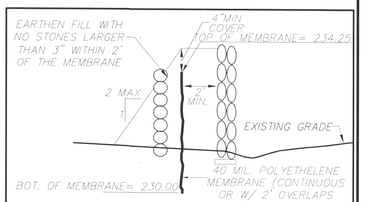
PRECAST CONCRETE CATCH BASIN DETAIL

NOT TO SCALE



SEDIMENT FOREBAY DETAIL

NOT TO SCALE



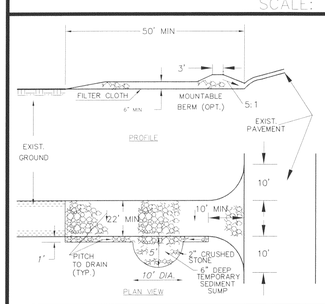
BREAKOUT PROTECTION BARRIER DETAIL

N.T.S.

FILE: BREAKOUT BARRIER.DWG

ADS END SECTION DIMENSIONS

PIPE DIAMETER	DIMENSION (inches)					
	PART NO.	A(1±)	B MAX	H(1±)	L(1/2±)	W(2±)
12" and 15"	1210 NP	6.5	10	6.5	25	29
18"	1810 NP	7.5	15	6.5	32	35
24"	2410 NP	7.5	18	6.5	36	45
36"	3610 NP	10.5	NA	7.0	53	68

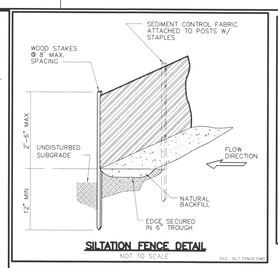


CONSTRUCTION SPECIFICATIONS

1. THE ENTRANCE OF THE PROPOSED DRIVE SHALL INITIALLY HAVE 6" OF 2" CRUSHED STONE LAID DOWN AS A TRAFFIC SEDIMENT CONTROL SURFACE AS SHOWN IN THE STABILIZED CONSTRUCTION ENTRANCE DETAIL. THIS STONE PACK SHALL BE PLACED OVER THE DRIVEWAY FOR A MINIMUM DISTANCE OF 50 FEET FROM THE EDGE OF PAVEMENT AND SHALL BE REMOVED AND REPLACED WITH DRIVEWAY GRAVEL PRIOR TO THE PLACEMENT OF PAVEMENT.
2. STONE SIZE – USE 2" CRUSHED STONE.
3. WIDTH – TWENTY TWO (22) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS OF INGRESS OR EGRESS.
4. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO THE PLACEMENT OF STONE.
5. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED NEAR CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
6. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
7. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS DONE IT SHALL BE DONE ON STABILIZED ENTRANCE WITH STONE AND WHICH DRAINS INTO THE SEDIMENT SUMP AS SHOWN.
8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

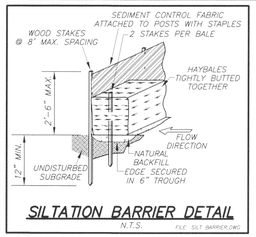
NOT TO SCALE



SILTATION FENCE DETAIL

NOT TO SCALE

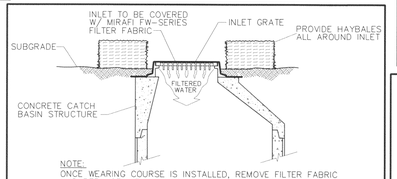
FILE: SILT FENCE.DWG



SILTATION BARRIER DETAIL

N.T.S.

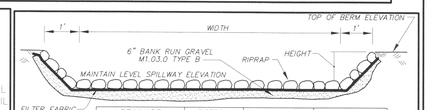
FILE: SILT BARRIER.DWG



NOTE:
ONCE WEARING COURSE IS INSTALLED, REMOVE FILTER FABRIC AND REPLACE WITH A SILT SACK. HAYBALES TO REMAIN.

INLET PROTECTION DETAIL

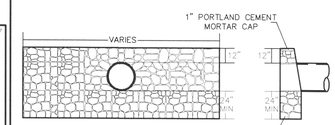
NOT TO SCALE



DRAINAGE AREA	BOTTOM ELEVATION	TOP OF BERM ELEVATION	BOTTOM WIDTH OF WEIR
"B"	234.50	235.00	6'

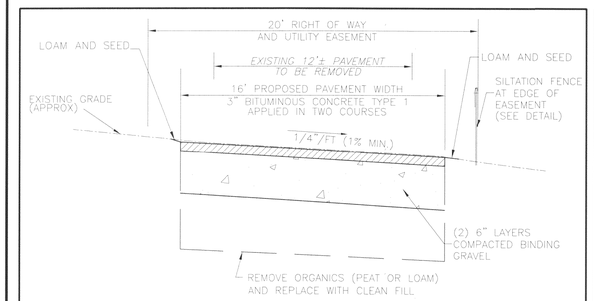
EMERGENCY SPILLWAY DETAIL

NOT TO SCALE



FIELDSTONE HEADWALL DETAIL

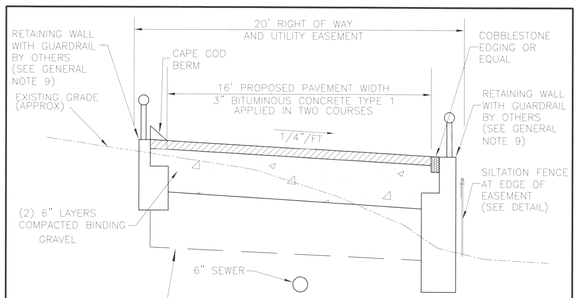
NOT TO SCALE



1.) THE EASEMENT SHALL BE FREE OF OBSTRUCTIONS SUCH AS TREES OR UTILITY POLES.
2.) ALL EXISTING UTILITIES INCLUDING GAS, ELECTRIC, WATER, AND SEWER WITHIN EASEMENT TO REMAIN.
3.) EXISTING ACCESS DRIVEWAYS TO REMAIN.

DRIVEWAY CROSS-SECTION NONSET PATH TO END OF EXISTING DRIVEWAY

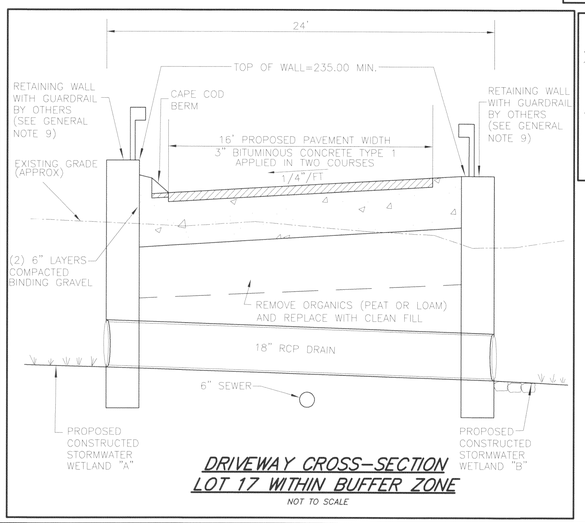
NOT TO SCALE



1.) THE EASEMENT SHALL BE FREE OF OBSTRUCTIONS SUCH AS TREES OR UTILITY POLES.

DRIVEWAY CROSS-SECTION END OF EXISTING DRIVEWAY TO LOT 17

NOT TO SCALE



DRIVEWAY CROSS-SECTION LOT 17 WITHIN BUFFER ZONE

NOT TO SCALE

NONSET PATH
SITE PLAN
ACTON, MASSACHUSETTS

DETAILS

FOR: HAWTHORNE HOMES, LLC
SCALE: 1"=20' JANUARY 26, 2011

STAMSKI AND MCNARY, INC.
1000 MAIN STREET ACTON, MASSACHUSETTS
(978) 263-8585
ENGINEERING – PLANNING – SURVEYING

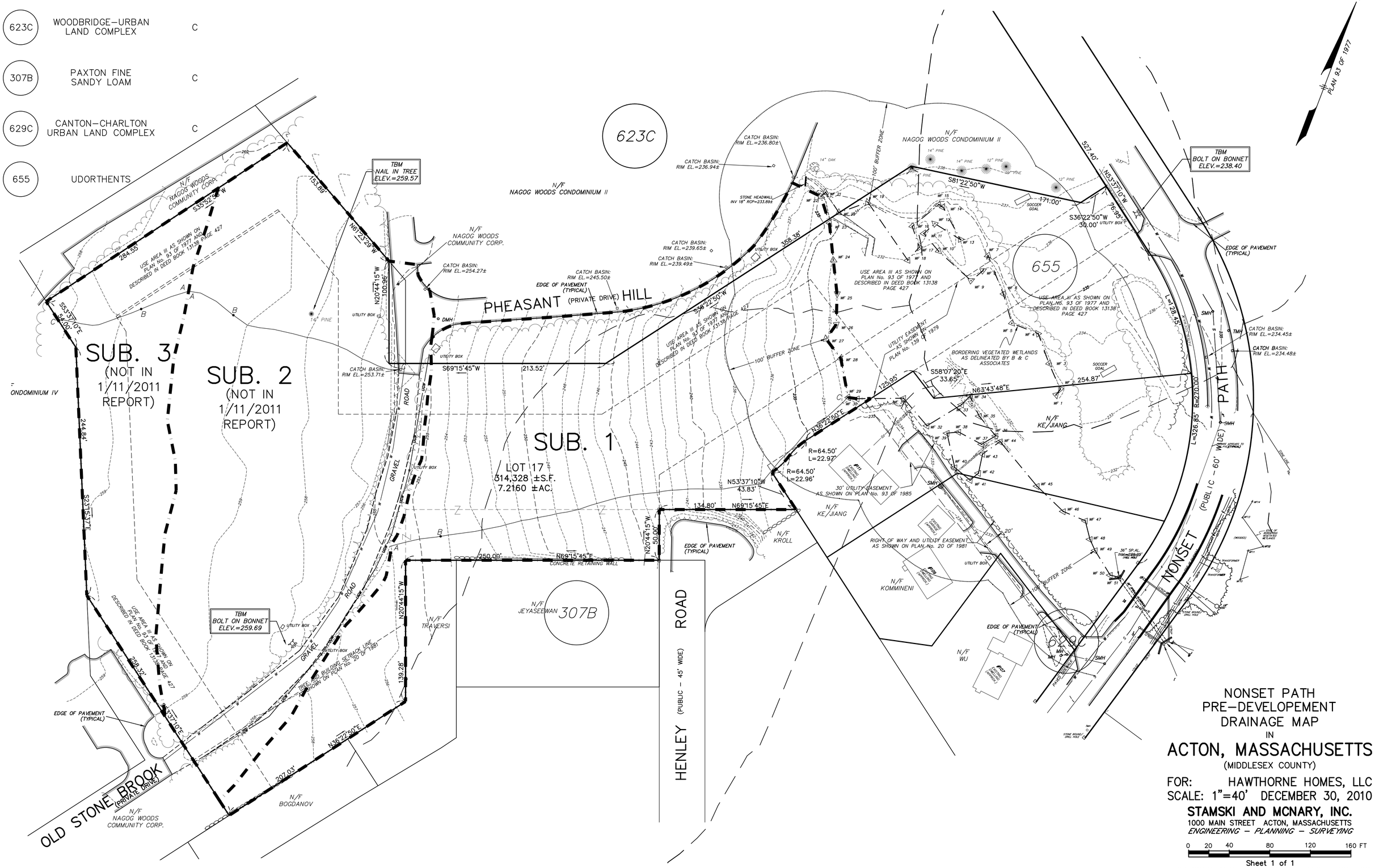
0 10 20 40 60 80 FT

(4627CONCEPT1D1.DWG) SHEET 2 OF 2 SM-4627

COMMONWEALTH OF MASSACHUSETTS JOSEPH MARCH CIVIL #40472 PROFESSIONAL ENGINEER

COMMONWEALTH OF MASSACHUSETTS WILLIAM F. McNARY No. 30753 PROFESSIONAL LAND SURVEYOR

	NAME	HYDROLOGICAL SOIL GROUP
623C	WOODBRIDGE–URBAN LAND COMPLEX	C
307B	PAXTON FINE SANDY LOAM	C
629C	CANTON–CHARLTON URBAN LAND COMPLEX	C
655	UDORTHENTS	



NONSET PATH
PRE–DEVELOPEMENT
DRAINAGE MAP
IN
ACTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

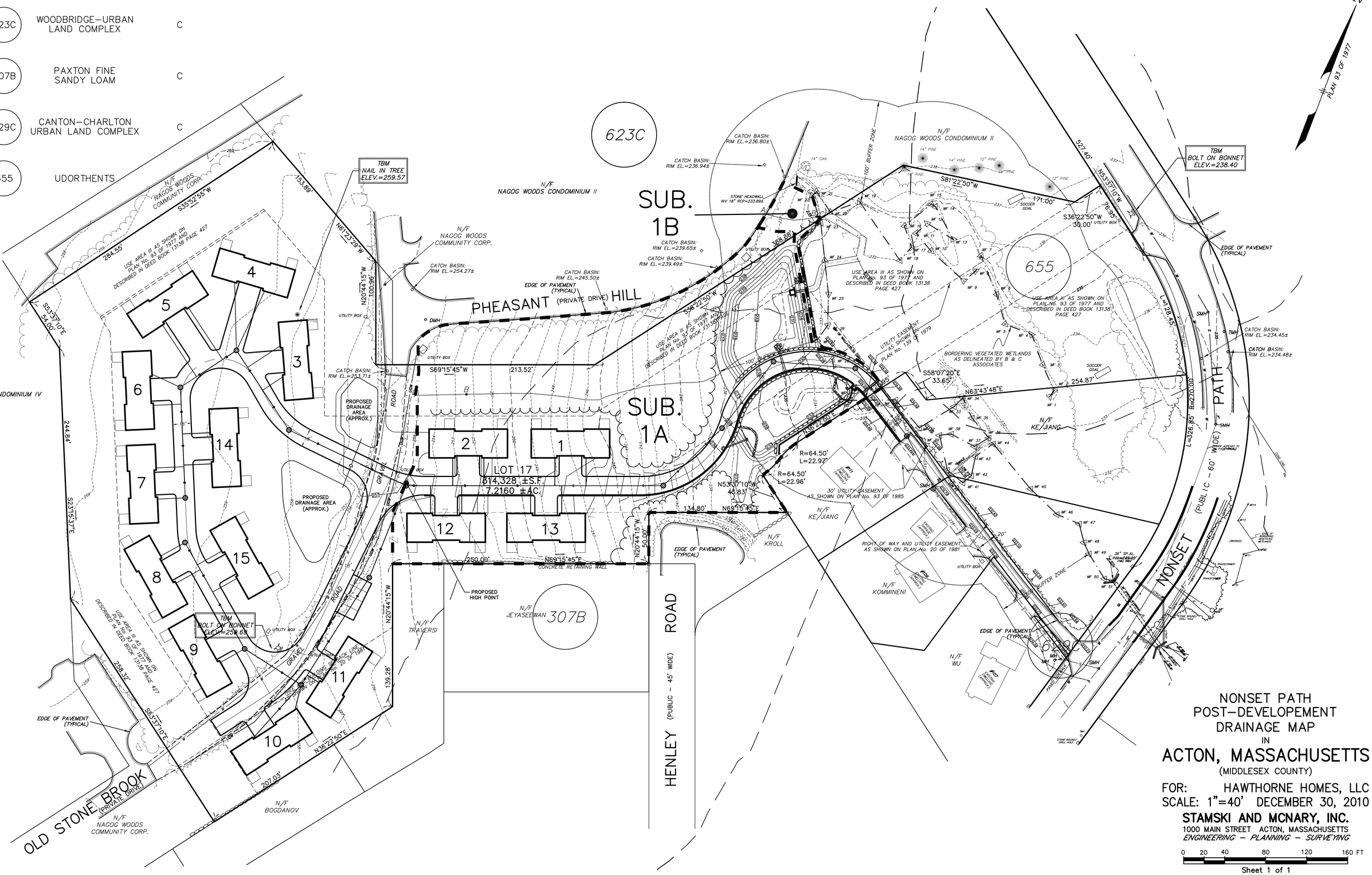
FOR: HAWTHORNE HOMES, LLC
SCALE: 1"=40' DECEMBER 30, 2010

STAMSKI AND MCNARY, INC.
1000 MAIN STREET ACTON, MASSACHUSETTS
ENGINEERING – PLANNING – SURVEYING

0 20 40 80 120 160 FT

Sheet 1 of 1
4627CONCEPT1D1.dwg NONSET PATH SM–4627

	NAME	HYDROLOGICAL SOIL GROUP
623C	WOODBRIDGE–URBAN LAND COMPLEX	C
307B	PAXTON FINE SANDY LOAM	C
629C	CANTON–CHARLTON URBAN LAND COMPLEX	C
655	UDORTHENTS	



NONSET PATH
POST–DEVELOPEMENT
DRAINAGE MAP
IN
ACTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

FOR: HAWTHORNE HOMES, LLC
SCALE: 1"=40' DECEMBER 30, 2010

STAMSKI AND MCNARY, INC.
1000 MAIN STREET ACTON, MASSACHUSETTS
ENGINEERING – PLANNING – SURVEYING

0 20 40 80 120 160 FT

Sheet 1 of 1
4627CONCEPT1D1.dwg NONSET PATH SM–4627

Stormwater Management Report

For

Nonset Path
Acton, MA

January 11, 2011

Applicant: Hawthorne Homes, LLC
530 Great Road
Acton, MA 01720

Owner : Blackstone Middlesex Realty Trust
Susan Smith, Trustee
1474 Butterfield Court
Marco Island, FL 34145

SM-4627 File: 4627StormwaterReportCover.doc

Stamski And McNary, Inc.
Engineering - Planning – Surveying
1000 Main Street; Acton, MA 01720 (978) 263-8585
www.stamskiandmcnary.com

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Drainage Maps

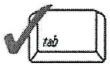
Checklist for Stormwater Report

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

Checklist for Stormwater Report

A. Introduction

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



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.[1] This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8[2]
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

---

[1] The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

[2] For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.

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

Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature

COMMONWEALTH OF MASSACHUSETTS
JOSEPH
MARCH
CIVIL
#40472
REGISTERED
PROFESSIONAL ENGINEER

Joseph March 2/15/11
Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

☒ New development

☐ Redevelopment

☐ Mix of New Development and Redevelopment

Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- ☐ No disturbance to any Wetland Resource Areas
- ☒ Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- ☐ Reduced Impervious Area (Redevelopment Only)
- ☒ Minimizing disturbance to existing trees and shrubs
- ☐ LID Site Design Credit Requested:
  - ☐ Credit 1
  - ☐ Credit 2
  - ☐ Credit 3
- ☐ Use of "country drainage" versus curb and gutter conveyance and pipe
- ☐ Bioretention Cells (includes Rain Gardens)
- ☒ Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- ☐ Treebox Filter
- ☐ Water Quality Swale
- ☒ Grass Channel
- ☐ Green Roof
- ☐ Other (describe): _____

Standard 1: No New Untreated Discharges

- ☐ No new untreated discharges
- ☒ Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- ☒ Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.

Checklist for Stormwater Report

Checklist (continued)

Standard 2: Peak Rate Attenuation

☐ Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.

☒ Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.

☒ Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

☐ Soil Analysis provided.

☐ Required Recharge Volume calculation provided.

☐ Required Recharge volume reduced through use of the LID site Design Credits.

☐ Sizing the infiltration, BMPs is based on the following method: Check the method used.

☐ Static ☐ Simple Dynamic ☐ Dynamic Field[1]

☐ Runoff from all impervious areas at the site discharging to the infiltration BMP.

☐ Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.

☐ Recharge BMPs have been sized to infiltrate the Required Recharge Volume.

☒ Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:

- ☒ Site is comprised solely of C and D soils and/or bedrock at the land surface
- ☐ M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
- ☐ Solid Waste Landfill pursuant to 310 CMR 19.000
- ☒ Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.

☐ Calculations showing that the infiltration BMPs will drain in 72 hours are provided.

☐ Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

[1] 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.

Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

☐ The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.

☐ Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
- Provisions for storing materials and waste products inside or under cover;
- Vehicle washing controls;
- Requirements for routine inspections and maintenance of stormwater BMPs;
- Spill prevention and response plans;
- Provisions for maintenance of lawns, gardens, and other landscaped areas;
- Requirements for storage and use of fertilizers, herbicides, and pesticides;
- Pet waste management provisions;
- Provisions for operation and management of septic systems;
- Provisions for solid waste management;
- Snow disposal and plowing plans relative to Wetland Resource Areas;
- Winter Road Salt and/or Sand Use and Storage restrictions;
- Street sweeping schedules;
- Provisions for prevention of illicit discharges to the stormwater management system;
- Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
- Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
- List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.

☒ A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.

☐ Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:

- ☐ is within the Zone II or Interim Wellhead Protection Area
- ☐ is near or to other critical areas
- ☐ is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
- ☐ involves runoff from land uses with higher potential pollutant loads.

☐ The Required Water Quality Volume is reduced through use of the LID site Design Credits.

☒ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.

Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

☒ The BMP is sized (and calculations provided) based on:

- ☒ The ½" or 1" Water Quality Volume or
- ☐ The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.

☐ The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.

☐ A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

☐ The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.

☐ The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted ***prior to*** the discharge of stormwater to the post-construction stormwater BMPs.

☐ The NPDES Multi-Sector General Permit does ***not*** cover the land use.

☐ LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.

☐ All exposure has been eliminated.

☐ All exposure has ***not*** been eliminated and all BMPs selected are on MassDEP LUHPPL list.

☐ The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

☐ The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.

☐ Critical areas and BMPs are identified in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

☒ The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:

- ☒ Limited Project
- ☐ Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
- ☐ Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
- ☐ Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
- ☐ Bike Path and/or Foot Path
- ☐ Redevelopment Project
- ☐ Redevelopment portion of mix of new and redevelopment.

☒ Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.

☐ The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
- Construction Period Operation and Maintenance Plan;
- Names of Persons or Entity Responsible for Plan Compliance;
- Construction Period Pollution Prevention Measures;
- Erosion and Sedimentation Control Plan Drawings;
- Detail drawings and specifications for erosion control BMPs, including sizing calculations;
- Vegetation Planning;
- Site Development Plan;
- Construction Sequencing Plan;
- Sequencing of Erosion and Sedimentation Controls;
- Operation and Maintenance of Erosion and Sedimentation Controls;
- Inspection Schedule;
- Maintenance Schedule;
- Inspection and Maintenance Log Form.

☒ A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

☐ The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has ***not*** been included in the Stormwater Report but will be submitted ***before*** land disturbance begins.

☐ The project is ***not*** covered by a NPDES Construction General Permit.

☐ The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.

☐ The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

☒ The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:

- ☒ Name of the stormwater management system owners;
- ☒ Party responsible for operation and maintenance;
- ☒ Schedule for implementation of routine and non-routine maintenance tasks;
- ☒ Plan showing the location of all stormwater BMPs maintenance access areas;
- ☒ Description and delineation of public safety features;
- ☒ Estimated operation and maintenance budget; and
- ☒ Operation and Maintenance Log Form.

☐ The responsible party is ***not*** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:

- ☐ A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
- ☐ A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges

☒ The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;

☒ An Illicit Discharge Compliance Statement is attached;

☐ NO Illicit Discharge Compliance Statement is attached but will be submitted ***prior to*** the discharge of any stormwater to post-construction BMPs.

Narrative

Stormwater Management

The proposed project is for the construction of a limited project driveway crossing to provide access to upland dwelling units. The proposed private driveway will improve the existing common driveway within a 20' wide right of way and utility easement serving #107, #109, and #111 Nonset Path. The proposed driveway will extend off of the end of the existing drive within the easement into Lot 17 then turn upland. The driveway has been designed to minimize impervious areas and filling of Bordering Vegetated Wetlands.

The Natural Resources Conservation Service (N.R.C.S.) soil survey indicated the presences of Woodbridge-Urban Land Complex, Paxton Fine Sandy Loam, Canton-Charlton Urban Land Complex, and Udorthents. These soil groups rate as Hydrologic Groups C, C, C, and un-rated respectively.

Pre-Development

Lot 17 is generally wooded except for an area that has been cleared with a gravel road with utilities between a condominium parking area to the south to the private road Pheasant Hill of the condominium development to the north. The existing site can be divided into three subcatchments. The first, Subcatchment 1, is the wooded area draining uncontrolled to the wetland area on the east end of the lot. The second subcatchment is the area draining into the gravel driveway which connects to catch basins of the drainage system under Pheasant Hill that discharges from a headwall into the same wetland system onsite. The remaining third subcatchment is wooded area draining uncontrolled to the west onto the abutting condominium properties. For the purpose of the Notice of Intent filed for the limited driveway crossing, only Subcatchment 1 has been analyzed. It has been assumed that runoff from the upland subcatchments will be properly controlled by additional drainage systems. A drainage report for the entire site will be prepared pending approval of the proposed limited wetland crossing.

Post-Development

Runoff at the top of the hill will be controlled by a combination of upland basins. Full calculations will be prepared upon approval of the proposed limited private driveway crossing. A constructed stormwater wetland has been proposed to control and treat runoff from the additional impervious area of the private driveway and dwelling units that flows down the hill to the east towards the wetland for Subcatchment 1A. The proposed constructed stormwater wetland will be spilt onto each side of the driveway and connected with an 18" pipe with "A" on the east side and "B" on the west side. An outlet structure has been designed to control peak flow to the wetland. Due to site constraints of the limited project and the nature of constructed stormwater wetland, no recharge credit is being taken. Subcatchment 1B is the remaining undisturbed area draining into the wetland. Peak rate of runoff from Subcatchment 1 running off into the wetlands will be lower post-development.

Compliance with MA DEP Stormwater Management Standards

Compliance with the Stormwater Management Standards for Subcatchment 1, with consideration to the limited driveway crossing proposed in the Notice of Intent, is as follows:

Standard 1: No Untreated Discharges
Deep sump and hooded catch basins will direct runoff into a constructed stormwater wetland with a sediment forebay to treat runoff from the new impervious area in Subcatchment 1. Where the existing common driveway will be expanded, runoff will continue to drain in the existing manner. The site topography and constraints of the right of way and utility easement prevent the utilization of additional BMPs. For the limited project, water quality issues have been addressed with Standard 4.

Standard 2: Peak Rate Attenuation
Subcatchment 1 complies with Standard 2 as the peak rate of runoff will be controlled for the 2, 10, 25, and 100-year storm events. The peak rates of runoff has been summarized in the following table:

Discharge Summary Tables

Subcatchment 1: To Wetland

2-Year		10-Year		25-Year		100-Year	
Pre (cfs)	Post (cfs)	Pre (cfs)	Post (cfs)	Pre (cfs)	Post (cfs)	Pre (cfs)	Post (cfs)
1.398	0.141	3.312	0.475	4.557	0.778	6.368	1.356

Standard 3: Stormwater Recharge
As the project is a limited driveway crossing on a site consisting of C soils, the recharge requirements of Standard 3 cannot be achieved. Due to site conditions, a constructed stormwater wetland as designed as the primary treatment BMP. This BMP does not contribute to recharge but will treat the stormwater prior to reaching the wetlands.

Standard 4: Water Quality
All runoff from impervious areas on site reaching the wetlands from Subcatchment 1 will be treated to meet the 80% TSS removal requirement of Standard 4. The constructed stormwater wetland with pretreatment has been sized to treat 0.5" off runoff over all impervious areas draining to it. Calculations showing treatment levels are attached. Where the existing common driveway will be expanded, runoff will continue to drain untreated as existing. The site topography and constraints of the right of way and utility easement prevent the utilization of additional BMPs. Attached *De Miniumis* stormwater discharge calculations have been attached to show treatment to the extent practical for the limit project.

Standard 5: Land Uses with Higher Potential Pollutant Loads
The site is will not contain "land uses with higher potential pollutant loads."

Standard 6: Critical Areas
The site does not discharge runoff to critical areas.

Standard 7: Redevelopment
The proposed project is not redevelopment.

Standard 8: Construction Period Controls
A Stormwater Pollution Prevention Plan will be submitted prior to construction. The project will require coverage under the NPDES Construction General Permit.

Standard 9: Operation and Maintenance Plan
An Operation and Maintenance Plan is attached to this report.

Standard 10: Illicit Discharges to Drainage System
An Illicit Discharge Compliance will be provided prior to the discharge of stormwater runoff to the post-construction stormwater BMP's.

Design Basis

1. The United States Department of Agriculture Natural Resource Conservation Service (N.R.C.S.) TR55 methodology was used to determine offsite rates of runoff.
2. The twenty-four hour rainfall, taken from N.R.C.S. publications, is 6.4 inches for the 100-year storm, 4.5 inches for the 10-year storm, and 3.1 inches for the 2-year storm event.
3. The hydrologic calculations were performed using the computer program: "Hydraflow Hydrographs 2007" by Intelisolve.
4. The soil types of the site were taken from the N.R.C.S. Soil Survey Map for Acton.
5. Soil conditions and estimated seasonal high groundwater table were based on NRCS Soil Maps.

Pre-Development Hydrology

Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.2

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph description
1	SCS Runoff	1.398	2	740	7,476	----	------	------	PRE Sub. 1
3	SCS Runoff	1.924	2	734	8,803	----	------	------	POST Sub. 1A
4	Reservoir	0.137	2	946	7,809	3	232.71	5,346	Basin 1
5	Diversion1	0.137	2	946	7,957	4	------	------	Basin 1 Outflow
6	Diversion2	0.000	2	n/a	-148	4	------	------	Basin 1 Overflow
8	SCS Runoff	0.049	2	732	225	----	------	------	POST Sub. 1B
9	Combine	0.141	2	940	8,034	5, 6, 8	------	------	POST Sub. 1 TOTAL

Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.2

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph description
1	SCS Runoff	3.312	2	736	16,210	----	------	------	PRE Sub. 1
3	SCS Runoff	3.871	2	734	17,157	----	------	------	POST Sub. 1A
4	Reservoir	0.461	2	816	16,138	3	233.16	9,041	Basin 1
5	Diversion1	0.475	2	816	16,545	4	------	------	Basin 1 Outflow
6	Diversion2	0.000	2	n/a	-407	4	------	------	Basin 1 Overflow
8	SCS Runoff	0.116	2	732	484	----	------	------	POST Sub. 1B
9	Combine	0.475	2	812	16,622	5, 6, 8	------	------	POST Sub. 1 TOTAL

Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.2

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph description
1	SCS Runoff	6.368	2	736	30,239	----	------	------	PRE Sub. 1
3	SCS Runoff	6.748	2	734	29,849	----	------	------	POST Sub. 1A
4	Reservoir	1.317	2	770	28,815	3	233.78	14,930	Basin 1
5	Diversion1	1.345	2	770	29,405	4	------	------	Basin 1 Outflow
6	Diversion2	0.000	2	n/a	-589	4	------	------	Basin 1 Overflow
8	SCS Runoff	0.220	2	730	899	----	------	------	POST Sub. 1B
9	Combine	1.356	2	768	29,714	5, 6, 8	------	------	POST Sub. 1 TOTAL

Worksheet 2: Runoff curve number and runoff **SM-4627**

Project: Nonset Path By ECS Date 12/28/10

Location: Acton, MA Checked _____ Date _____

Circle one: Present Developed Subcatchment 1

1. Runoff curve number (CN)

Soil name and hydrologic group (appendix	Cover description (cover type, treatment, and hydrologic condition: percent impervious: unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area Acres	Product of CN x Area
623C C	Woods- Good Condition	70			1.12	78.40
623C C	Open Space- Good Condition	74			0.04	2.96
307B C	Woods- Good Condition	70			1.45	101.50
				Totals =	2.61	182.86

1/ Use only one CN source per line.

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{182.86}{2.61} = 70.06$; Use CN = 70.1

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency.....	yr	2	10	100
Rainfall, P (24-hour).....	in	3.1	4.5	6.4
Runoff, Q..... (Use P and CN with table 2-1, fig. 2-1,) or eqs. 2-3 and 2-4.)	in	0.77	1.68	3.13
Runoff, Q.....	cf	7328	15899	29673

(210-VI-TR-55, Second Ed., June 1986)

Worksheet 3: Time of Concentration (Tc) or travel time (Tt) **SM-4627**

Project: Nonset Path By ECS Date 12/28/10

Location: Acton, MA Checked _____ Date _____

Circle one: Present Developed Subcatchment 1

Circle one: Tc Tt through subarea

Sheet flow (Applicable to Tc only)		Segment ID	A-B			
1. Surface Description (table 3-1)			Woods			
2. Mannings roughness coeff., n (table 3-1)			0.8			
3. Flow length, L (total L <= 300 ft)		ft	50			
4. Two-yr 24-hr rainfall, P2		in	3.1			
5. Land Slope, s		ft/ft	0.03			
6. Tt = 0.007 (nL)^0.8 / (P2^0.5 s^0.4)	Compute Tt	hr	0.31			0.31

Shallow concentrated Flow		Segment ID	B-C			
7. Surface Description (paved or unpaved)			UNPAVED			
8. Flow Length, L		ft	443			
9. Watercourse slope, s		ft/ft	0.05			
10. Average Velocity, V (figure 3-1)		ft/s	3.61			
11. Tt = L / 3600V	Compute Tt	hr	0.03			0.03

Channel flow		Segment ID				
12. Cross sectional flow area, a		sf				
13. Wetted perimeter, pw		ft				
14. Hydraulic radius, r=a/wp	Compute r	ft				
15. Channel Slope, s		ft/ft				
16. Manning's roughness coeff., n						
17. V = 1.49 r^2/3 s^1/2 / n	Compute V	ft/s				
18. Flow length, L		ft				
19. Tt = L / 3600V	Compute Tt	hr				0.00

20. Watershed or subarea Tc or Tt (add Tt in steps 6, 11, and 19) hr 0.34

min 20.6

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Hyd. No. 1

PRE Sub. 1

Hydrograph type	= SCS Runoff	Peak discharge	= 1.398 cfs
Storm frequency	= 2 yrs	Time to peak	= 740 min
Time interval	= 2 min	Hyd. volume	= 7,476 cuft
Drainage area	= 2.610 ac	Curve number	= 70.1
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 20.6 min
Total precip.	= 3.10 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time -- Outflow (min	cfs)
738	1.398
740	1.398 <<

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Hyd. No. 1

PRE Sub. 1

Hydrograph type	= SCS Runoff	Peak discharge	= 3.312 cfs
Storm frequency	= 10 yrs	Time to peak	= 736 min
Time interval	= 2 min	Hyd. volume	= 7,476 cuft
Drainage area	= 2.610 ac	Curve number	= 70.1
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 20.6 min
Total precip.	= 4.50 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time -- Outflow (min	cfs)
736	3.312 <<
738	3.306

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 Tuesday, Feb 15, 2011

Hyd. No. 1

PRE Sub. 1

Hydrograph type	= SCS Runoff	Peak discharge	= 6.368 cfs
Storm frequency	= 100 yrs	Time to peak	= 736 min
Time interval	= 2 min	Hyd. volume	= 7,476 cuft
Drainage area	= 2.610 ac	Curve number	= 70.1
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 20.6 min
Total precip.	= 6.40 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time -- Outflow (min	cfs)
736	6.368 <<

...End

Post-Development Hydrology

Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.2

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph description
1	SCS Runoff	1.398	2	740	7,476	----	------	------	PRE Sub. 1
3	SCS Runoff	1.924	2	734	8,803	----	------	------	POST Sub. 1A
4	Reservoir	0.137	2	946	7,809	3	232.71	5,346	Basin 1
5	Diversion1	0.137	2	946	7,957	4	------	------	Basin 1 Outflow
6	Diversion2	0.000	2	n/a	-148	4	------	------	Basin 1 Overflow
8	SCS Runoff	0.049	2	732	225	----	------	------	POST Sub. 1B
9	Combine	0.141	2	940	8,034	5, 6, 8	------	------	POST Sub. 1 TOTAL

Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.2

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph description
1	SCS Runoff	3.312	2	736	16,210	----	------	------	PRE Sub. 1
3	SCS Runoff	3.871	2	734	17,157	----	------	------	POST Sub. 1A
4	Reservoir	0.461	2	816	16,138	3	233.16	9,041	Basin 1
5	Diversion1	0.475	2	816	16,545	4	------	------	Basin 1 Outflow
6	Diversion2	0.000	2	n/a	-407	4	------	------	Basin 1 Overflow
8	SCS Runoff	0.116	2	732	484	----	------	------	POST Sub. 1B
9	Combine	0.475	2	812	16,622	5, 6, 8	------	------	POST Sub. 1 TOTAL

Hydrograph Summary Report

Hydraflow Hydrographs by Intelisolve v9.2

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph description
1	SCS Runoff	6.368	2	736	30,239	----	------	------	PRE Sub. 1
3	SCS Runoff	6.748	2	734	29,849	----	------	------	POST Sub. 1A
4	Reservoir	1.317	2	770	28,815	3	233.78	14,930	Basin 1
5	Diversion1	1.345	2	770	29,405	4	------	------	Basin 1 Outflow
6	Diversion2	0.000	2	n/a	-589	4	------	------	Basin 1 Overflow
8	SCS Runoff	0.220	2	730	899	----	------	------	POST Sub. 1B
9	Combine	1.356	2	768	29,714	5, 6, 8	------	------	POST Sub. 1 TOTAL

Worksheet 2: Runoff curve number and runoff **SM-4627**

Project: Nonset Path By ECS Date 12/28/10

Location: Acton, MA Checked _____ Date _____

Circle one: Present **Developed** Subcatchment 1A

1. Runoff curve number (CN)

Soil name and hydrologic group (appendix	Cover description (cover type, treatment, and hydrologic condition: percent impervious: unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area Acres	Product of CN x Area
—	Impervious	98			0.44	43.12
623C C	Woods- Good Condition	70			0.30	21.00
623C C	Open Space- Good Condition	74			0.19	14.06
623C C	Brush- Good Condition	70			0.08	5.60
307B C	Woods- Good Condition	70			0.59	41.30
307B C	Open Space- Good Condition	74			0.32	23.68
307B C	Brush- Good Condition	70			0.25	17.50
				Totals =	2.17	166.26

1/ Use only one CN source per line.

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{166.26}{2.17} = 76.62$; Use CN = **76.6**

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency.....	yr	2	10	100
Rainfall, P (24-hour).....	in	3.1	4.5	6.4
Runoff, Q..... (Use P and CN with table 2-1, fig. 2-1,) or eqs. 2-3 and 2-4.)	in	1.12	2.18	3.79
Runoff, Q.....	cf	8811	17168	29864

(210-VI-TR-55, Second Ed., June 1986)

Worksheet 3: Time of Concentration (Tc) or travel time (Tt) **ERR**

Project: ERR By ECS Date 12/28/10

Location: ERR Checked _____ Date _____

Circle one: Present **Developed**

Circle one: **Tc** Tt through subarea

Subcatchment 1A

Sheet flow (Applicable to Tc only)		Segment ID	A-B			
1. Surface Description (table 3-1)			Woods			
2. Mannings roughness coeff., n (table 3-1)			0.8			
3. Flow length, L (total L <= 300 ft)		ft	50			
4. Two-yr 24-hr rainfall, P2		in	3.1			
5. Land Slope, s		ft/ft	0.04			
6. Tt = 0.007 (nL)^0.8 / (P2^0.5 s^0.4)	Compute Tt	hr	0.28			0.28

Shallow concentrated Flow		Segment ID	B-C			
7. Surface Description (paved or unpaved)			UNPAVED			
8. Flow Length, L		ft	294			
9. Watercourse slope, s		ft/ft	0.07			
10. Average Velocity, V (figure 3-1)		ft/s	4.27			
11. Tt = L / 3600V	Compute Tt	hr	0.02			0.02

Channel flow		Segment ID				
12. Cross sectional flow area, a		sf				
13. Wetted perimeter, pw		ft				
14. Hydraulic radius, r=a/wp	Compute r	ft				
15. Channel Slope, s		ft/ft				
16. Manning's roughness coeff., n						
17. V = 1.49 r^2/3 s^1/2 / n	Compute V	ft/s				
18. Flow length, L		ft				
19. Tt = L / 3600V	Compute Tt	hr				0.00

20. Watershed or subarea Tc or Tt (add Tt in steps 6, 11, and 19)	hr	0.29
	min	17.7

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Hyd. No. 3

POST Sub. 1A

Hydrograph type	= SCS Runoff	Peak discharge	= 1.924 cfs
Storm frequency	= 2 yrs	Time to peak	= 734 min
Time interval	= 2 min	Hyd. volume	= 8,803 cuft
Drainage area	= 2.170 ac	Curve number	= 76.6
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 17.7 min
Total precip.	= 3.10 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time -- Outflow (min	cfs)
734	1.924 <<
736	1.905

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Hyd. No. 3

POST Sub. 1A

Hydrograph type	= SCS Runoff	Peak discharge	= 3.871 cfs
Storm frequency	= 10 yrs	Time to peak	= 734 min
Time interval	= 2 min	Hyd. volume	= 8,803 cuft
Drainage area	= 2.170 ac	Curve number	= 76.6
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 17.7 min
Total precip.	= 4.50 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time -- Outflow (min	cfs)
732	3.842
734	3.871 <<

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Hyd. No. 3

POST Sub. 1A

Hydrograph type	= SCS Runoff	Peak discharge	= 6.748 cfs
Storm frequency	= 100 yrs	Time to peak	= 734 min
Time interval	= 2 min	Hyd. volume	= 8,803 cuft
Drainage area	= 2.170 ac	Curve number	= 76.6
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 17.7 min
Total precip.	= 6.40 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time -- Outflow (min	cfs)
732	6.745
734	6.748 <<

...End

Pond Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Pond No. 4 - Basin 1

Pond Data

Pond storage is based on user-defined values.

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	232.00	n/a	0	0
1.00	233.00	n/a	7,515	7,515
2.00	234.00	n/a	9,505	17,020
3.00	235.00	n/a	10,378	27,398

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 18.00	0.00	0.00	0.00
Span (in)	= 18.00	0.00	0.00	0.00
No. Barrels	= 1	0	0	0
Invert El. (ft)	= 232.00	0.00	0.00	0.00
Length (ft)	= 15.00	0.00	0.00	0.00
Slope (%)	= 1.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 12.00	12.00	0.00	0.00
Crest El. (ft)	= 234.00	234.20	232.00	0.00
Weir Coeff.	= 3.33	3.33	0.33	3.33
Weir Type	= Riser	Ciplti	15 degV	---
Multi-Stage	= Yes	No	Yes	No

Exfil.(in/hr) = 0.000 (by Wet area)

TW Elev. (ft) = 0.00

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	232.00	0.00	---	---	---	0.00	0.00	---	---	---	---	0.000
1.00	7,515	233.00	0.33 ic	---	---	---	0.00	0.00	0.32 s	---	---	---	0.318
2.00	17,020	234.00	1.76 oc	---	---	---	0.00	0.00	1.74 s	---	---	---	1.744
3.00	27,398	235.00	12.68 ic	---	---	---	11.67 s	28.59	1.00 s	---	---	---	41.26

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Hyd. No. 4

Basin 1

Hydrograph type	= Reservoir	Peak discharge	= 0.137 cfs
Storm frequency	= 2 yrs	Time to peak	= 946 min
Time interval	= 2 min	Hyd. volume	= 7,809 cuft
Inflow hyd. No.	= 3 - POST Sub. 1A	Reservoir name	= Basin 1
Max. Elevation	= 232.71 ft	Max. Storage	= 5,346 cuft

Storage Indication method used.

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
918	0.159	232.71	0.136	-----	-----	-----	-----	-----	0.136	-----	-----	0.136
920	0.158	232.71	0.136	-----	-----	-----	-----	-----	0.136	-----	-----	0.136
922	0.156	232.71	0.136	-----	-----	-----	-----	-----	0.136	-----	-----	0.136
924	0.155	232.71	0.136	-----	-----	-----	-----	-----	0.136	-----	-----	0.136
926	0.153	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
928	0.152	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
930	0.150	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
932	0.149	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
934	0.147	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
936	0.145	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
938	0.144	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
940	0.142	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
942	0.141	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
944	0.139	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
946	0.138	232.71 <<	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137 <<
948	0.136	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
950	0.134	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
952	0.133	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
954	0.131	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
956	0.130	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
958	0.128	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
960	0.126	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
962	0.125	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
964	0.123	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
966	0.122	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
968	0.120	232.71	0.137	-----	-----	-----	-----	-----	0.137	-----	-----	0.137
970	0.119	232.71	0.136	-----	-----	-----	-----	-----	0.136	-----	-----	0.136
972	0.118	232.71	0.136	-----	-----	-----	-----	-----	0.136	-----	-----	0.136
974	0.116	232.71	0.136	-----	-----	-----	-----	-----	0.136	-----	-----	0.136
976	0.115	232.71	0.136	-----	-----	-----	-----	-----	0.136	-----	-----	0.136

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Hyd. No. 4

Basin 1

Hydrograph type	= Reservoir	Peak discharge	= 0.461 cfs
Storm frequency	= 10 yrs	Time to peak	= 816 min
Time interval	= 2 min	Hyd. volume	= 7,809 cuft
Inflow hyd. No.	= 3 - POST Sub. 1A	Reservoir name	= Basin 1
Max. Elevation	= 233.16 ft	Max. Storage	= 9,041 cuft

Storage Indication method used.

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
796	0.529	233.16	0.471	-----	-----	-----	-----	-----	0.457	-----	-----	0.457
798	0.519	233.16	0.471	-----	-----	-----	-----	-----	0.458	-----	-----	0.458
800	0.510	233.16	0.472	-----	-----	-----	-----	-----	0.459	-----	-----	0.459
802	0.503	233.16	0.473	-----	-----	-----	-----	-----	0.459	-----	-----	0.459
804	0.496	233.16	0.473	-----	-----	-----	-----	-----	0.460	-----	-----	0.460
806	0.490	233.16	0.474	-----	-----	-----	-----	-----	0.460	-----	-----	0.460
808	0.484	233.16	0.474	-----	-----	-----	-----	-----	0.461	-----	-----	0.461
810	0.479	233.16	0.475	-----	-----	-----	-----	-----	0.461	-----	-----	0.461
812	0.474	233.16	0.475	-----	-----	-----	-----	-----	0.461	-----	-----	0.461
814	0.469	233.16	0.475	-----	-----	-----	-----	-----	0.461	-----	-----	0.461
816	0.463	233.16 <<	0.475	-----	-----	-----	-----	-----	0.461	-----	-----	0.461 <<
818	0.458	233.16	0.475	-----	-----	-----	-----	-----	0.461	-----	-----	0.461
820	0.453	233.16	0.475	-----	-----	-----	-----	-----	0.461	-----	-----	0.461
822	0.448	233.16	0.475	-----	-----	-----	-----	-----	0.461	-----	-----	0.461
824	0.442	233.16	0.475	-----	-----	-----	-----	-----	0.461	-----	-----	0.461
826	0.437	233.16	0.474	-----	-----	-----	-----	-----	0.461	-----	-----	0.461
828	0.432	233.16	0.474	-----	-----	-----	-----	-----	0.460	-----	-----	0.460
830	0.426	233.16	0.473	-----	-----	-----	-----	-----	0.460	-----	-----	0.460
832	0.421	233.16	0.473	-----	-----	-----	-----	-----	0.459	-----	-----	0.459
834	0.415	233.16	0.472	-----	-----	-----	-----	-----	0.459	-----	-----	0.459
836	0.410	233.16	0.472	-----	-----	-----	-----	-----	0.458	-----	-----	0.458
838	0.405	233.16	0.471	-----	-----	-----	-----	-----	0.458	-----	-----	0.458
840	0.399	233.16	0.470	-----	-----	-----	-----	-----	0.457	-----	-----	0.457

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Hyd. No. 4

Basin 1

Hydrograph type	= Reservoir	Peak discharge	= 1.317 cfs
Storm frequency	= 100 yrs	Time to peak	= 770 min
Time interval	= 2 min	Hyd. volume	= 7,809 cuft
Inflow hyd. No.	= 3 - POST Sub. 1A	Reservoir name	= Basin 1
Max. Elevation	= 233.78 ft	Max. Storage	= 14,930 cuft

Storage Indication method used.

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time (min)	Inflow cfs	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	Outflow cfs
764	1.708	233.77	1.331	-----	-----	-----	-----	-----	1.304	-----	-----	1.304
766	1.560	233.78	1.339	-----	-----	-----	-----	-----	1.311	-----	-----	1.311
768	1.438	233.78	1.344	-----	-----	-----	-----	-----	1.316	-----	-----	1.316
770	1.340	233.78 <<	1.346	-----	-----	-----	-----	-----	1.317	-----	-----	1.317 <<
772	1.261	233.78	1.345	-----	-----	-----	-----	-----	1.317	-----	-----	1.317
774	1.199	233.78	1.343	-----	-----	-----	-----	-----	1.315	-----	-----	1.315
776	1.149	233.78	1.339	-----	-----	-----	-----	-----	1.312	-----	-----	1.312
778	1.108	233.77	1.335	-----	-----	-----	-----	-----	1.308	-----	-----	1.308

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Hyd. No. 5

Basin 1 Outflow

Hydrograph type	= Diversion1	Peak discharge	= 0.137 cfs
Storm frequency	= 2 yrs	Time to peak	= 946 min
Time interval	= 2 min	Hyd. volume	= 7,957 cuft
Inflow hydrograph	= 4 - Basin 1	2nd diverted hyd.	= 6
Diversion method	= Pond -	Pond structure	= Culv/Orf A

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time (min)	Inflow cfs	2nd Diverted cfs	Outflow cfs
920	0.136	0.000	0.136
922	0.136	0.000	0.136
924	0.136	0.000	0.136
926	0.137	0.000	0.137
928	0.137	0.000	0.137
930	0.137	0.000	0.137
932	0.137	0.000	0.137
934	0.137	0.000	0.137
936	0.137	0.000	0.137
938	0.137	0.000	0.137
940	0.137	0.000	0.137
942	0.137	0.000	0.137
944	0.137	0.000	0.137
946	0.137 <<	0.000	0.137 <<
948	0.137	0.000	0.137
950	0.137	0.000	0.137
952	0.137	0.000	0.137
954	0.137	0.000	0.137
956	0.137	0.000	0.137
958	0.137	0.000	0.137
960	0.137	0.000	0.137
962	0.137	0.000	0.137
964	0.137	0.000	0.137
966	0.137	0.000	0.137
968	0.137	0.000	0.137
970	0.136	0.000	0.136
972	0.136	0.000	0.136
974	0.136	0.000	0.136

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Hyd. No. 5

Basin 1 Outflow

Hydrograph type	= Diversion1	Peak discharge	= 0.475 cfs
Storm frequency	= 10 yrs	Time to peak	= 816 min
Time interval	= 2 min	Hyd. volume	= 7,957 cuft
Inflow hydrograph	= 4 - Basin 1	2nd diverted hyd.	= 6
Diversion method	= Pond -	Pond structure	= Culv/Orf A

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time (min)	Inflow cfs	2nd Diverted cfs	Outflow cfs
796	0.457	-0.013	0.471
798	0.458	-0.013	0.471
800	0.459	-0.013	0.472
802	0.459	-0.014	0.473
804	0.460	-0.014	0.474
806	0.460	-0.014	0.474
808	0.461	-0.014	0.474
810	0.461	-0.014	0.475
812	0.461	-0.014	0.475
814	0.461	-0.014	0.475
816	0.461 <<	-0.014	0.475 <<
818	0.461	-0.014	0.475
820	0.461	-0.014	0.475
822	0.461	-0.014	0.475
824	0.461	-0.014	0.475
826	0.461	-0.014	0.474
828	0.460	-0.014	0.474
830	0.460	-0.014	0.474
832	0.459	-0.014	0.473
834	0.459	-0.013	0.472
836	0.458	-0.013	0.472
838	0.458	-0.013	0.471

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 Tuesday, Feb 15, 2011

Hyd. No. 5

Basin 1 Outflow

Hydrograph type	= Diversion1	Peak discharge	= 1.345 cfs
Storm frequency	= 100 yrs	Time to peak	= 770 min
Time interval	= 2 min	Hyd. volume	= 7,957 cuft
Inflow hydrograph	= 4 - Basin 1	2nd diverted hyd.	= 6
Diversion method	= Pond -	Pond structure	= Culv/Orf A

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time (min)	Inflow cfs	2nd Diverted cfs	Outflow cfs
766	1.311	-0.028	1.339
768	1.316	-0.028	1.344
770	1.317 <<	-0.028	1.345 <<
772	1.317	-0.028	1.345
774	1.315	-0.028	1.343
776	1.312	-0.028	1.339
778	1.308	-0.027	1.335

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 Tuesday, Feb 15, 2011

Hyd. No. 6

Basin 1 Overflow

Hydrograph type	= Diversion2	Peak discharge	= 0.000 cfs
Storm frequency	= 2 yrs	Time to peak	= n/a
Time interval	= 2 min	Hyd. volume	= -148 cuft
Inflow hydrograph	= 4 - Basin 1	2nd diverted hyd.	= 5
Diversion method	= Pond -	Pond structure	= Culv/Orf A

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 Tuesday, Feb 15, 2011

Hyd. No. 6

Basin 1 Overflow

Hydrograph type	= Diversion2	Peak discharge	= 0.000 cfs
Storm frequency	= 10 yrs	Time to peak	= n/a
Time interval	= 2 min	Hyd. volume	= -148 cuft
Inflow hydrograph	= 4 - Basin 1	2nd diverted hyd.	= 5
Diversion method	= Pond -	Pond structure	= Culv/Orf A

...End

Hydrograph Report

Hyd. No. 6

Basin 1 Overflow

Hydrograph type	= Diversion2	Peak discharge	= 0.000 cfs
Storm frequency	= 100 yrs	Time to peak	= n/a
Time interval	= 2 min	Hyd. volume	= -148 cuft
Inflow hydrograph	= 4 - Basin 1	2nd diverted hyd.	= 5
Diversion method	= Pond -	Pond structure	= Culv/Orf A

...End

Worksheet 2: Runoff curve number and runoff **SM-4627**

Project: Nonset Path By ECS Date 12/28/10

Location: Acton, MA Checked _____ Date _____

Circle one: Present **Developed** Subcatchment 1B

1. Runoff curve number (CN)

Soil name and hydrologic group (appendix	Cover description (cover type, treatment, and hydrologic condition: percent impervious: unconnected/connected impervious area ratio)	CN 1/ Table 2-2	CN 1/ Fig. 2-3	CN 1/ Fig. 2-4	Area Acres	Product of CN x Area
623C C	Woods- Good Condition	70			0.04	2.80
623C C	Open Space- Good Condition	74			0.01	0.74
623C C	Brush- Good Condition	70			0.02	1.40
307B C	Brush- Good Condition	70			0.01	0.70
				Totals =	0.08	5.64

1/ Use only one CN source per line.

CN (weighted) = $\frac{\text{total product}}{\text{total area}} = \frac{5.64}{0.08} = 70.50$; Use CN = 70.5

2. Runoff

		Storm #1	Storm #2	Storm #3
Frequency.....	yr	2	10	100
Rainfall, P (24-hour).....	in	3.1	4.5	6.4
Runoff, Q..... (Use P and CN with table 2-1, fig. 2-1,) or eqs. 2-3 and 2-4.)	in	0.79	1.71	3.17
Runoff, Q.....	cf	231	497	922

D-2 (210-VI-TR-55, Second Ed., June 1986)

Worksheet 3: Time of Concentration (Tc) or travel time (Tt) **SM-4627**

Project: Nonset Path By ECS Date 12/28/10

Location: Acton, MA Checked _____ Date _____

Circle one: Present **Developed** Subcatchment 1B

Circle one: **Tc** Tt through subarea

Sheet flow (Applicable to Tc only)		Segment ID	A-B			
1. Surface Description (table 3-1)			Woods			
2. Mannings roughness coeff., n (table 3-1)			0.8			
3. Flow length, L (total L <= 300 ft)		ft	50			
4. Two-yr 24-hr rainfall, P2		in	3.1			
5. Land Slope, s		ft/ft	0.06			
6. Tt = 0.007 (nL)^0.8 / (P2^0.5 s^0.4)	Compute Tt	hr	0.23			0.23

Shallow concentrated Flow		Segment ID	B-C			
7. Surface Description (paved or unpaved)			UNPAVED			
8. Flow Length, L		ft	3			
9. Watercourse slope, s		ft/ft	0.06			
10. Average Velocity, V (figure 3-1)		ft/s	3.95			
11. Tt = L / 3600V	Compute Tt	hr	0.00			0.00

Channel flow		Segment ID				
12. Cross sectional flow area, a		sf				
13. Wetted perimeter, pw		ft				
14. Hydraulic radius, r=a/wp	Compute r	ft				
15. Channel Slope, s		ft/ft				
16. Manning's roughness coeff., n						
17. V = 1.49 r^2/3 s^1/2 / n	Compute V	ft/s				
18. Flow length, L		ft				
19. Tt = L / 3600V	Compute Tt	hr				0.00

20. Watershed or subarea Tc or Tt (add Tt in steps 6, 11, and 19)	hr	0.23
	min	14.1

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 Tuesday, Feb 15, 2011

Hyd. No. 8

POST Sub. 1B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.049 cfs
Storm frequency	= 2 yrs	Time to peak	= 732 min
Time interval	= 2 min	Hyd. volume	= 225 cuft
Drainage area	= 0.080 ac	Curve number	= 70.5
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 14.1 min
Total precip.	= 3.10 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time -- Outflow (min	cfs)
732	0.049 <<
734	0.049

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 | Tuesday, Feb 15, 2011

Hyd. No. 8

POST Sub. 1B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.116 cfs
Storm frequency	= 10 yrs	Time to peak	= 732 min
Time interval	= 2 min	Hyd. volume	= 225 cuft
Drainage area	= 0.080 ac	Curve number	= 70.5
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 14.1 min
Total precip.	= 4.50 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time -- Outflow (min	cfs)
730	0.115
732	0.116 <<

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Hyd. No. 8

POST Sub. 1B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.220 cfs
Storm frequency	= 100 yrs	Time to peak	= 730 min
Time interval	= 2 min	Hyd. volume	= 225 cuft
Drainage area	= 0.080 ac	Curve number	= 70.5
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 14.1 min
Total precip.	= 6.40 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time -- Outflow (min	cfs)
730	0.220 <<
732	0.219

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 — Tuesday, Feb 15, 2011

Hyd. No. 9

POST Sub. 1 TOTAL

Hydrograph type	= Combine	Peak discharge	= 0.141 cfs
Storm frequency	= 2 yrs	Time to peak	= 940 min
Time interval	= 2 min	Hyd. volume	= 8,034 cuft
Inflow hyds.	= 5, 6, 8	Contrib. drain. area	= 0.080 ac

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time (min)	Hyd. 5 + (cfs)	Hyd. 6 + (cfs)	Hyd. 8 = (cfs)	Outflow (cfs)
912	0.135	0.000	0.005	0.140
914	0.136	0.000	0.005	0.140
916	0.136	0.000	0.005	0.140
918	0.136	0.000	0.005	0.140
920	0.136	0.000	0.004	0.141
922	0.136	0.000	0.004	0.141
924	0.136	0.000	0.004	0.141
926	0.137	0.000	0.004	0.141
928	0.137	0.000	0.004	0.141
930	0.137	0.000	0.004	0.141
932	0.137	0.000	0.004	0.141
934	0.137	0.000	0.004	0.141
936	0.137	0.000	0.004	0.141
938	0.137	0.000	0.004	0.141
940	0.137	0.000	0.004	0.141 <<
942	0.137	0.000	0.004	0.141
944	0.137	0.000	0.004	0.141
946	0.137 <<	0.000	0.004	0.141
948	0.137	0.000	0.004	0.141
950	0.137	0.000	0.004	0.141
952	0.137	0.000	0.004	0.141
954	0.137	0.000	0.004	0.141
956	0.137	0.000	0.004	0.141
958	0.137	0.000	0.004	0.141
960	0.137	0.000	0.004	0.141
962	0.137	0.000	0.004	0.140
964	0.137	0.000	0.004	0.140
966	0.137	0.000	0.003	0.140
968	0.137	0.000	0.003	0.140

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 Tuesday, Feb 15, 2011

Hyd. No. 9

POST Sub. 1 TOTAL

Hydrograph type	= Combine	Peak discharge	= 0.475 cfs
Storm frequency	= 10 yrs	Time to peak	= 812 min
Time interval	= 2 min	Hyd. volume	= 8,034 cuft
Inflow hyds.	= 5, 6, 8	Contrib. drain. area	= 0.080 ac

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time (min)	Hyd. 5 + (cfs)	Hyd. 6 + (cfs)	Hyd. 8 = (cfs)	Outflow (cfs)
792	0.468	-0.013	0.016	0.472
794	0.469	-0.013	0.016	0.472
796	0.471	-0.013	0.016	0.473
798	0.471	-0.013	0.015	0.474
800	0.472	-0.013	0.015	0.474
802	0.473	-0.014	0.015	0.474
804	0.474	-0.014	0.015	0.475
806	0.474	-0.014	0.015	0.475
808	0.474	-0.014	0.015	0.475
810	0.475	-0.014	0.014	0.475
812	0.475	-0.014	0.014	0.475 <<
814	0.475	-0.014	0.014	0.475
816	0.475 <<	-0.014	0.014	0.475
818	0.475	-0.014	0.014	0.475
820	0.475	-0.014	0.014	0.475
822	0.475	-0.014	0.014	0.475
824	0.475	-0.014	0.013	0.474
826	0.474	-0.014	0.013	0.474
828	0.474	-0.014	0.013	0.473
830	0.474	-0.014	0.013	0.473
832	0.473	-0.014	0.013	0.472
834	0.472	-0.013	0.013	0.472
836	0.472	-0.013	0.012	0.471

...End

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.2 Tuesday, Feb 15, 2011

Hyd. No. 9

POST Sub. 1 TOTAL

Hydrograph type	= Combine	Peak discharge	= 1.356 cfs
Storm frequency	= 100 yrs	Time to peak	= 768 min
Time interval	= 2 min	Hyd. volume	= 8,034 cuft
Inflow hyds.	= 5, 6, 8	Contrib. drain. area	= 0.080 ac

Hydrograph Discharge Table

(Printed values >= 99.00% of Qp.)

Time (min)	Hyd. 5 + (cfs)	Hyd. 6 + (cfs)	Hyd. 8 = (cfs)	Outflow (cfs)
762	1.318	-0.025	0.050	1.344
764	1.331	-0.027	0.046	1.351
766	1.339	-0.028	0.043	1.354
768	1.344	-0.028	0.041	1.356 <<
770	1.345 <<	-0.028	0.039	1.356
772	1.345	-0.028	0.037	1.354
774	1.343	-0.028	0.036	1.351
776	1.339	-0.028	0.035	1.347

...End

Water Quality Volume Calculations

STAMSKI AND McNARY, INC.
1000 Main Street
ACTON, MASSACHUSETTS 01720
TEL (978) 263-8585
FAX (978) 263-9883

JOB 4627
SHEET NO. _____ OF _____
CALCULATED BY ECS DATE 1/11/11
CHECKED BY _____ DATE _____
SCALE _____

WATER QUALITY VOLUME:

$$V_{WQ} = \frac{D_{WQ}}{12\ IN/FT} \times A_{IMP} \times 43560\ SF/AC$$

$D_{WQ} = 0.5''$
$A_{IMP} = 0.44\ AC$

$$V_{WQ} = \frac{0.5}{12} \times 0.44 \times 43560$$

$$V_{WQ} = 799\ CF$$

CONSTRUCTED STORMWATER WETLAND = 27,398 CF

27,398 CF > 799 CF OK ✓

TSS Removal Calculations

INSTRUCTIONS:

Non-automated: Mar. 4, 2008

1. Sheet is nonautomated. Print sheet and complete using hand calculations. Column A and B: See MassDEP Structural BMP Table
2. The calculations must be completed using the Column Headings specified in Chart and Not the Excel Column Headings
3. To complete Chart Column D, multiple Column B value within Row x Column C value within Row
4. To complete Chart Column E value, subtract Column D value within Row from Column C within Row
5. Total TSS Removal = Sum All Values in Column D

Location: NONSET PATH

TSS Removal Calculation Worksheet

A BMP[1]	B TSS Removal Rate[1]	C Starting TSS Load*	D Amount Removed (B*C)	E Remaining Load (C-D)
DEEP SUMP & HOODED CATCH BASIN	25%	1.00	0.25	0.75
CONSTRUCTED STORMWATER WETLAND W/ SEDIMENT FOREBAY	80%	0.75	0.60	0.15

Total TSS Removal = 85%

Separate Form Needs to be Completed for Each Outlet or BMP Train

Project: NONSET PATH

Prepared By: ECS

Date: 1/11/11

*Equals remaining load from previous BMP (E) which enters the BMP

Non-automated TSS Calculation Sheet must be used if Proprietary BMP Proposed

1. From MassDEP Stormwater Handbook Vol. 1

Mass. Dept. of Environmental Protection

De Minimus Stormwater Discharge Calculations

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DE MINIMUS STORMWATER DISCHARGES:

$$\text{WEIGHTED AVERAGE} = \frac{(A_1)(TSS_1) + (A_2)(TSS_2)}{(A_1 + A_2)}$$

A_1 = 19,166 SF IMPERVIOUS TO CONSTRUCTED STORMWATER WETLAND

TSS_1 = 85%

A_2 = 1833 SF NEW IMPERVIOUS IN R.O.W. & UTILITY EASEMENT

TSS_2 = 0%

$$\text{AVERAGE} = \frac{(19166)(0.85) + (1833)(0)}{(19166 + 1833)}$$

$$= 78\%^{*}$$

* MAXIMUM PRACTICAL FOR LIMITED PROJECT

Operation and Maintenance Plan

Drainage Maps