Environmental Notification Form (ENF) Application

For:

Village Green

a rental, townhouse community

&

The Orchards

a residential, single family home subdivision

Submitted to:

Executive Office of Energy and Environmental Affairs (EEA)
Attn: MEPA Office
100 Cambridge Street, Suite 900
Boston, MA 02114

For:

15 Great Road LLC, I & II
200 Baker Avenue, Suite 303
Concord, MA 01742

Prepared By:

Places Associates, Inc.
510 King Street, Suite 9
Littleton, MA 01460

Environmental Notification Form

For Office Use Only

EEA#: _____

MEPA Analyst: _____

The information requested on this form must be completed in order to submit a document electronically for review under the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: *Village Green & The Orchards Subdivision*		
Street Address: *15 Great Road*		
Municipality: *Littleton*	Watershed: *SuAsCo*	
Universal Transverse Mercator Coordinates: *Zone 19; Easting: 300203; Northing: 4711116*	Latitude: *42-31-35.8* Longitude: *-71-25-57.31*	
Estimated commencement date: *Spring 2013*	Estimated completion date: *2015*	
Project Type: *Residential*	Status of project design: *40 %complete*	
Proponent: *15 Great Road, LLC; 15 Great Road LLC II*		
Street Address: *200 Baker Ave. Suite 303*		
Municipality: *Concord*	State: *MA*	Zip Code: *01742*
Name of Contact Person: *David Hale, Manager*		
Firm/Agency: *15 Great Road, LLC; 15 Great Road LLC II*	Street Address: *200 Baker Ave. Suite 303*	
Municipality: *Concord*	State: *MA*	Zip Code: *01742*
Phone: *978 369 4884*	Fax: *978 369 4983*	E-mail: *dhale@omniproperties.com*

Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
☐Yes ☒No

If this is an Expanded Environmental Notification Form (ENF) (see 301 CMR 11.05(7)) or a Notice of Project Change (NPC), are you requesting:

a Single EIR? (see 301 CMR 11.06(8)) ☐Yes ☐No
a Special Review Procedure? (see 301CMR 11.09) ☐Yes ☐No
a Waiver of mandatory EIR? (see 301 CMR 11.11) ☐Yes ☐No
a Phase I Waiver? (see 301 CMR 11.11) ☐Yes ☐No
(Note: Greenhouse Gas Emissions analysis must be included in the Expanded ENF.)

Which MEPA review threshold(s) does the project meet or exceed (see 301 CMR 11.03)?
CMR 11:03(6 (b)) – *14 Generation of more than 1,000 trips per day and 150 new parking spaces*
Land - 1.b.2 - Creation of 5 or more acres of impervious
Greater than two acres of disturbance of designated priority habitat (PH 1159)

Which State Agency Permits will the project require?
Highway Access Permit; Groundwater Discharge Permit; NHESP Conservation Permit; Wetlands-Notice of Intent, DEP-BRP WW 11: minor fill for excavation projects.

Identify any financial assistance or land transfer from an Agency of the Commonwealth, including the Agency name and the amount of funding or land area in acres: The project received a 40B site eligibility letter from Mass Development dated 6-3-2011

Summary of Project Size & Environmental Impacts	Existing	Change	Total
LAND			
Total site acreage	*53.9 ac*		
New acres of land altered		*17.33 ac*	
Acres of impervious area	*0*	*9.7 ac*	*9.7 ac*
Square feet of new bordering vegetated wetlands alteration		*1093 sf*	
Square feet of new other wetland alteration			
Acres of new non-water dependent use of tidelands or waterways		*0*	
STRUCTURES			
Gross square footage	*310,000*		
Number of housing units	*0*	*215*	*215*
Maximum height (feet)	*0*	*49*	*49*
TRANSPORTATION			
Vehicle trips per day	*0*	*1562*	*1562*
Parking spaces	*0*	*447*	*447*
WASTEWATER			
Water Use (Gallons per day)	*0*	*55,005*	*55,005*
Water withdrawal (GPD)	*0*	*5,000(irrigation)*	*5,000(irrigation)*
Wastewater generation/treatment (GPD)	*0*	*55,005*	*55,005*
Length of water mains (miles)	*0*	*1.16±*	*1.16±*
Length of sewer mains (miles)	*0*	*1.15±*	*1.15±*

Has this project been filed with MEPA before?
☐ Yes (EEA #_____) ☒ No

Has any project on this site been filed with MEPA before?
☐ Yes (EEA #_____) ☒ No

GENERAL PROJECT INFORMATION – all proponents must fill out this section

PROJECT DESCRIPTION:

Describe the existing conditions and land uses on the project site:

The project site, located in Littleton near the convergence of the Acton, Littleton and Westford town lines, is bounded by the Grist Mill Road, a single-family residential development, to the west, Great Road to the south, Nagog Park Drive, its associated retail/office/residential uses and the Acton town line to the east, and adjacent undeveloped land in the Town of Westford exists to the north.

Currently undeveloped, the site supports forested uplands, meadows and vegetated wetlands, and could be characterized as having rolling terrain (upland woods with slopes of approximately 10-15% and the meadow and wetland areas with slopes of approximately 1-3%). The site is comprised of a variety of natural conditions: portions of the site contain bordering vegetated wetlands which support a variety of shrub-swamp species, and act to collect the runoff from the existing site areas and ultimately discharge to the periphery of the site. Ultimately all of the wetlands systems discharge to the north of the site and away from Nagog Pond into Westford. The central wetlands discharge to the east to Acton where it is collected in a drainage system serving Nagog Road which ultimately discharges to the north and way from Nagog pond.

Typical of former farm fields and open spaces adjacent to residential and commercial developments, the site supports a variety of vegetative communities. The western side of the site is a mature (40' to 60+'), second growth forest of mixed hard and softwoods (Maples, Oaks and White Pine), which grow along the property line adjacent to Grist Mill Road. The Central areas (as oriented north to south) include meadow areas, which feature low, pioneering shrub species and grasslands.

Describe the proposed project and its programmatic and physical elements:

NOTE: The project description should summarize both the project's direct and indirect impacts (including construction period impacts) in terms of their magnitude, geographic extent, duration and frequency, and reversibility, as applicable. It should also discuss the infrastructure requirements of the project and the capacity of the municipal and/or regional infrastructure to sustain these requirements into the future.

In an effort to diversify the existing housing options within the town of Littleton and the region and to add incremental housing options that reflect the changes in the region's demographics while meeting the changing needs of households, the project proposes to incorporate several types of housing into the overall design. These various housing options include rental and for sale housing that will serve a wide range of demographic demand from young families to empty nesters to the elderly, while offering residents choices in terms of floor plans, affordability, energy efficiency and handicapped accessibility all in keeping with the character of the Town of Littleton and the region. The project is adjacent to Nagog Park, a mixed-use park with 380 apartments and nearly 1,000,000 square feet of office, R&D, retail and restaurant space. Village green will connect with Nagog Park by foot paths, which will allow residents to conveniently access local shops, restaurants and businesses and walking trails.

Specifically, the proposed plan includes a single 40B project consisting of: 34 townhouse-style buildings, 4 garden-style apartment buildings (1 bedroom/unit), and a non-40B, 20-22 new single-family home lot residential subdivision, which includes the reconfiguration of three existing lots fronting on the adjacent Grist Mill Road. As provided by local subdivision regulations, the proponent has determined that an "Open Space Design", subject to a Planning Board Special Permit, with 19 new lots to be the preferred alternative for the non-40B portion of the project (see Figure 6). The proponent is also maintaining the option to pursue a "standard" residential subdivision which would create 17 new lots. In both subdivision scenarios three (3) existing lots fronting on Grist Mill Road are incorporated as part of the subdivision, as they will be required to be re-configured and will gain legal frontage on the new roadway, which increases the total subdivision lot count to 20-22 lots to be developed. Another two existing lots at the junction of Grist Mill and Rt 2A, Great Road, are being made part of the 40B project. Another lot in this area is being re-configured by the 40B project, but will remain an existing building lot.

The design of this project as a combination of buildings including townhouses, garden-style apartments and single-family homes on smaller lots will meet the changing needs of the local and regional housing market.

In general, existing utilities, including gas, water, electric, CATV/internet, telephone and other standard utilities will be extended onto the site to support the proposed development. Fire protection will be provided by sprinkler services interior to each building as is required by Code. Fire hydrants will be installed along the roadway and interior to the site, as required by public safety regulations and in coordination with the Littleton Fire Department.

A combination of low pressure sewer and localized pump stations will collect and distribute waste to an onsite wastewater treatment plant. This plant's discharge will result in a lower pollutant load than similar residential or commercial developments in the surrounding area. The WWTP will serve both the 40B project and the subdivision project in order to comply with the requirements of Title 5 (310 CMR 15.010-011 Aggregation of flows). The proposed WWTP will be designed in accordance with the DEP standards for a Groundwater Discharge Permit and Sewer Collection System criteria.

The storm water management system is being developed in accordance with Best Management Practices and in accordance with the Town of Littleton requirements. These standards require that storm water be treated for water quality and controlled in terms of peak rate of runoff, which may affect downstream abutters. These practices include Low Impact Development standards. Groundwater recharge will be provided throughout the site by way of recharge systems and within detention basins as the soil conditions allow

Describe the on-site project alternatives (and alternative off-site locations, if applicable), considered by the proponent, including at least one feasible alternative that is allowed under current zoning, and the reasons(s) that they were not selected as the preferred alternative:

The current project design has evolved since May of 2011,
with the goal of meeting the residential needs of region and is based on input from the local Zoning Board of Appeals, the Littleton Board of Selectmen, the Littleton Planning Board, other Departments of the Town of Littleton, the project abutters and the general public.

Several iterations have been drafted, publicly presented and revised to produce the plan currently under consideration.

No Build Plan
The no-build plan is the baseline alternative against which all others are compared. Using a no-build scenario, deprives the property owner of the legal use of their land, leaves vacant land that is suitable for development and does not assist the town in achieving it's affordable housing goals.

Conventional Subdivision Plan
A 34-lot single-family subdivision with two new roadways (no dedicated open space, impacts to wetlands and endangered species habitat). This plan was dismissed as being inconsistent with the current anemic demand for "For Sale" Housing and the current strong demand for rental housing which is more energy efficient, uses land more judiciously, and offers households quality housing without the risks inherent in homeownership.

Senior Mixed Use Plan
Including bungalow-style townhouse buildings, combined with an assisted living residential area and associated nursing home This plan was inconsistent with current zoning unless prosecuted by a non-profit which did not materialize.

Comprehensive/Open Space Plan
Multiple garden-style apartment buildings (6) comprising a total of 200 units, some with parking under, in combination with a 19-lot open space (cluster style) subdivision. This was the original plan proposed. The neighbors and town selectmen objected to the height, mass and scale of the buildings which lead to the current compromise project site design.

NOTE: The purpose of the alternatives analysis is to consider what effect changing the parameters and/or siting of a project, or components thereof, will have on the environment, keeping in mind that the objective of the MEPA review process is to avoid or minimize damage to the environment to the greatest extent feasible. Examples of alternative projects include alternative site locations, alternative site uses, and alternative site configurations.

Summarize the mitigation measures proposed to offset the impacts of the preferred alternative:

The site plan and building styles have been modified to better blend with the existing character of the Town of Littleton, while the same time diversifying housing opportunities for residents. The layout of the site has been modified to accommodate the preferred building layouts and maintain compliance with state and local low impact development criteria, such as recharge system, open drainage systems where available and appropriate. The residential subdivision, which is not part of the

Comprehensive Permit project, will be designed with a minimum of 14 acres of restricted open space area.

The design includes a convenient recycle center at the front of the site, which will allow tenants to drop off recyclables with ease without making a special trip. In addition to encouraging re-cycling, the development will make use of a trash compactor to reduce the number of trash haul trips required and reducing the overall volume of waste. Further, the proponent will take part in the energy star program and strive for low HERS ratings for each unit. As previously noted, the WWTP will produce high quality effluent thus minimizing the negative impacts often accompanying typical single family home title V systems.

If the project is proposed to be constructed in phases, please describe each phase:

The Comprehensive Permit portion is one phase (15 Great Road LLC II) and the residential subdivision is another phrase (15 Great Road LLC).

AREAS OF CRITICAL ENVIRONMENTAL CONCERN:

Is the project within or adjacent to an Area of Critical Environmental Concern?

☐Yes (Specify_____)

☒No

if yes, does the ACEC have an approved Resource Management Plan? ___ Yes ___ No;
If yes, describe how the project complies with this plan.

_____

Will there be stormwater runoff or discharge to the designated ACEC? ___ Yes _X_ No;
If yes, describe and assess the potential impacts of such stormwater runoff/discharge to the designated ACEC.

_____

RARE SPECIES:

Does the project site include Estimated and/or Priority Habitat of State-Listed Rare Species? (see http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/priority_habitat/priority_habitat_home.htm)

☒Yes (Specify____*Ambystoma laterale* – Blue-spotted Salamander____) ☐No

HISTORICAL /ARCHAEOLOGICAL RESOURCES:

Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

☒Yes (Specify_____) ☐No -site specific study performed

According to The Public Archaeology Laboratory, Inc. of Pawtucket, Rhode Island, the cultural resource management firm that performed an intensive archaeological survey of the site in October and November of 2011, the site is "not considered to represent potentially significant cultural resources that would be eligible for listing in the National Register of Historic Places." The report further concludes that "No further archaeological investigation of the 15 Great Road project area is recommended." See Attachment 9, Management Abstract, Intensive Archaeological Survey, 15 Great Road Development, for additional information.

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources? ☐Yes (Specify_____) ☒No

See above.

WATER RESOURCES:

Is there an Outstanding Resource Water (ORW) on or within a half-mile radius of the project site? _X_Yes ___No;
if yes, identify the ORW and its location. _____*Nashoba Brook, Nagog Pond*_____

(NOTE: Outstanding Resource Waters include Class A public water supplies, their tributaries, and bordering wetlands; active and inactive reservoirs approved by MassDEP; certain waters within Areas of Critical Environmental Concern, and certified vernal pools. Outstanding resource waters are listed in the Surface Water Quality Standards, 314 CMR 4.00.)

Are there any impaired water bodies on or within a half-mile radius of the project site? ___Yes _X__No; if yes, identify the water body and pollutant(s) causing the impairment:_____.

Is the project within a medium or high stress basin, as established by the Massachusetts Water Resources Commission? __X__Yes ___No
Medium stress basin

STORMWATER MANAGEMENT:
Generally describe the project's stormwater impacts and measures that the project will take to comply with the standards found in MassDEP's Stormwater Management Regulations:_____

The stormwater management system is being developed in accordance with Best Management Practices and in accordance with the Town of Littleton requirements. These standards require that stormwater be treated for water quality and controlled in terms of peak rate of runoff, which may affect downstream abutters. These practices include Low Impact Development standards and methodologies. Groundwater recharge will be provided throughout the site by way of recharge systems and within detention basins as the soil conditions allow. Permeable pavement will be used for driveways and other areas to further increase recharge and reduce impervious surfaces. Peak rates of runoff will be attenuated; no net increase will result at the property line, as required by the Massachusetts Stormwater guidelines. The site is not directly tributary to any public water supply or surface waters.

MASSACHUSETTS CONTINGENCY PLAN:
Has the project site been, or is it currently being, regulated under M.G.L.c.21E or the Massachusetts Contingency Plan? Yes ___ No __X__ ; if yes, please describe the current status of the site (including Release Tracking Number (RTN), cleanup phase and Response
Action Outcome classification):_____**N/A**_____

Is there an Activity and Use Limitation (AUL) on any portion of the project site? Yes ___ No __X__;
if yes, describe which portion of the site and how the project will be consistent with the AUL: _____.

Are you aware of any Reportable Conditions at the property that have not yet been assigned an RTN?
Yes ___ No __X__ ; if yes, please describe:_____

SOLID AND HAZARDOUS WASTE:
If the project will generate solid waste during demolition or construction, describe alternatives considered for re-use, recycling, and disposal of, e.g., asphalt, brick, concrete, gypsum, metal, wood:_____

There are no existing structures on the site; therefore no demolition is necessary. Slash and stumps generated during clearing will be processed and used, in part for temporary stabilization of disturbed surfaces. Unused materials will be disposed of in accordance with all applicable laws and regulations. Appropriate onsite materials (rocks, stumps, etc.) will be reused throughout the site. It is anticipated that a net fill will be required for the site.

Construction wastes will be segregated by the waste management company at the receiving end and will recycled and re-used to the extent possible. No on-site segregation is proposed. Disposal of all materials will be in compliance with applicable laws and regulations.

(NOTE: Asphalt pavement, brick, concrete and metal are banned from disposal at Massachusetts landfills and waste combustion facilities and wood is banned from disposal at Massachusetts landfills. See 310 CMR 19.017 for the complete list of banned materials.)

Will your project disturb asbestos containing materials? Yes ___ No __X__ ;
if yes, please consult state asbestos requirements at http://mass.gov/MassDEP/air/asbhom01.htm

Describe anti-idling and other measures to limit emissions from construction equipment:
The project will adhere to the Massachusetts General Law (MGL Chapter 90, Section 16A) and the Massachusetts Department of Environmental Protection (DEP) idling reduction regulation (310 CMR 7.11(1)(b)).

DESIGNATED WILD AND SCENIC RIVER:
Is this project site located wholly or partially within a defined river corridor of a federally

designated Wild and Scenic River or a state designated Scenic River? Yes ___ No __X__ ;
if yes, specify name of river and designation:

If yes, does the project have the potential to impact any of the "outstandingly remarkable" resources of a federally Wild and Scenic River or the stated purpose of a state designated Scenic River?
Yes ___ No ___ ; if yes, specify name of river and designation: _____;
if yes, will the project will result in any impacts to any of the designated "outstandingly remarkable" resources of the Wild and Scenic River or the stated purposes of a Scenic River.
Yes ___ No ___ ;
if yes,describe the potential impacts to one or more of the "outstandingly remarkable" resources or stated purposes and mitigation measures proposed.

ATTACHMENTS: List exact titles of attachments

1. Figure 1: Locus Map, 8-½ x 11 inches indicating the project location and boundaries
2. Figure 2: Existing Conditions Plan.
3. Figure 3: Orthophotograph, depicting wetlands, NHESP Habitat and Vernal Pool areas and other resource areas as prepared by Oxbow Associates, Inc.
4. Figure 4: Aerial Photograph depicting adjacent uses – from original 2011 40B submission.
5. Figure 5: MassGIS, OLIVER composite map.
6. Figure 6: Plan of proposed Comprehensive Permit Development, Village Green.
7. Figure 7: Plan of proposed single family home, residential subdivision, 22 lots.
8. Figure 8: List of all agencies and persons to whom the proponent circulated the ENF, in accordance with 301 CMR 11.16(2).
9. Figure 9: List of municipal and federal permits and reviews required by the project, as applicable.
10. Figure 10: Coordination letter with the Natural Heritage and Endangered Species Program, dated..
11. *Figure 11: Historical Site Assessment, Management Abstract, The Public Archaeology Laboratory, Pawtucket, RI, December 2011*

LAND SECTION – all proponents must fill out this section

I. Thresholds / Permits

A. Does the project meet or exceed any review thresholds related to **land** (see 301 CMR 11.03(1)
__X__ Yes ___ No; if yes, specify each threshold:

II. Impacts and Permits

A. Describe, in acres, the current and proposed character of the project site, as follows:

	Existing	Change	Total
Footprint of buildings	0	+4.7	4.7
Internal roadways	0	+3.4	3.4
Parking and other paved areas	0	+1.6	1.6
Other altered areas	8.5	+14.5	23.0
Undeveloped areas	45.4	-24.2	21.2
Total: Project Site Acreage	53.9		53.9

B. Has any part of the project site been in active agricultural use in the last five years?
___ Yes __X__ No; if yes, how many acres of land in agricultural use (with prime state or locally important agricultural soils) will be converted to nonagricultural use?

C. Is any part of the project site currently or proposed to be in active forestry use?
___ Yes __X__ No; if yes, please describe current and proposed forestry activities and indicate whether any part of the site is the subject of a forest management plan approved by the Department of Conservation and Recreation:

D. Does any part of the project involve conversion of land held for natural resources purposes in accordance with Article 97 of the Amendments to the Constitution of the Commonwealth to any purpose not in accordance with Article 97? ___ Yes __X__ No; if yes, describe:

E. Is any part of the project site currently subject to a conservation restriction, preservation restriction, agricultural preservation restriction or watershed preservation restriction? ___ Yes__X__ No; if yes, does the project involve the release or modification of such restriction? ___ Yes ___ No; if yes, describe:

F. Does the project require approval of a new urban redevelopment project or a fundamental change in an existing urban redevelopment project under M.G.L.c.121A? ___ Yes __X__ No; if yes, describe:

G. Does the project require approval of a new urban renewal plan or a major modification of an existing urban renewal plan under M.G.L.c.121B? Yes ___ No __X__; if yes, describe:

III. Consistency

A. Identify the current municipal comprehensive land use plan
Title: **Littleton Master Plan** Date **Adopted August 2002**

B. Describe the project's consistency with that plan with regard to:

1) Economic development:

Because the project provides a variety of housing opportunities for residents of various income levels, workers will be able to find appropriate and sustainable housing options, and thus a diverse workforce will gravitate into the area.
Linked with Nagog Park via walkways, the proposed project will provide convenient access to local shopping, restaurants and businesses.

2 Adequacy of infrastructure:
In general, the existing utilities will be extended into the site to support the proposed development, including gas, water, electric, CATV/internet, telephone and other standard utilizes. Fire protection will be provided by sprinkler services interior to each building as is required by Code. Hydrants will be installed along the roadway and interior to the site, as required by public safety regulations and in coordination with the Littleton Fire Department. The Littleton Water Department has assured the applicant that sufficient capacity exists to support the project.

3. Open Space:
Approximately 14 acres will be set aside as permanent open space subject to a conservation restriction which was developed in consultation with NHESP.
In addition, the site design incorporates the Low Impact Development model, where formalized landscaping will be minimized to the areas around the proposed buildings. The periphery of the site will be maintained as wooded, forming a naturalized screen to adjacent uses on all sides. Native, drought and area tolerant species that still provide for seasonal color and character will be utilized when possible. Where required, screening will be a combination of dense evergreens and deciduous trees/shrubs to accommodate the area and needs. As a compliment to open space and landscaped areas, community gardens will be incorporated into the site design.

4. Compatibility with adjacent land uses:
The area along the Great Road corridor is a combination of house lots, residential subdivisions, intermittent commercial uses and open space currently and formerly used as farmland. Specifically, the site is adjacent and will connect by pedestrian pathways to Nagog Park, a mixed use park with 380 apartments and nearly 1,000,000 square feet of office, R&D, retail and restaurant space. . As a mixed residential project, the proposed design will be compatible with existing uses in the area.

C. Identify the current Regional Policy Plan of the applicable Regional Planning Agency (RPA)
RPA: **Metropolitan Area Planning Council**

Title: **MetroFuture** Date **2008**

The design of this project as a combination of buildings including 142 townhouses (some with first floor master bedrooms), 48 garden-style apartments and 17-19 new, single-family homes on smaller lots, was in direct response to changes in local and regional housing needs. Therefore, the development will help meet the needs of not only an aging population, but the project will also provide housing for young families and will meet the housing needs of a diverse work force. MetroFuture, an initiative of the Metropolitan Area Planning Council that uses research to project future regional trends and needs in terms of housing, infrastructure, employment, etc., clearly identifies regional housing goals in their MetroFuture Housing Choices Vision Statement:

> *"MetroFuture housing patterns support regional equity, quality of life, and economic competitiveness. The region will have an adequate housing supply, and housing-friendly zoning policies (targeted to appropriate locations) will allow the housing market to quickly respond to increased demand by increasing supply. Workers at all skill levels will be able to find housing they can afford, in convenient locations. There will be less market demand for single family homes (especially those on large lots, which will largely remain very expensive) as more people will find compact housing types to be affordable and convenient. The region will have an abundant supply of apartments, condominium, townhouses, and 2-family homes—housing types that require less land, less energy for heating and cooling, and shorter trips to access shops and services." (www.Metrofuture.org)*

D. Describe the project's consistency with that plan with regard to:
1) economic development ____ *See above.*
2) adequacy of infrastructure __ *See above.*
3) open space impacts _____ *See above.*

RARE SPECIES SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **rare species or habitat** (see 301 CMR 11.03(2))? __X__ Yes ___ No; if yes, specify, in quantitative terms:

Portions of land disturbance will occur within potential migratory distance of blue-spotted salamander. The acceptable limit of work, to assure compliance with 321 CMR 10.23. has been verified in consultation with NHESP. Necessary Field Studies, under authorization of NHESP have been conducted at the site in support of the current project configuration.

(NOTE: If you are uncertain, it is recommended that you consult with the Natural Heritage and Endangered Species Program (NHESP) prior to submitting the ENF.)

B. Does the project require any state permits related to **rare species or habitat**? __X__ Yes ___ No

A Conservation and Management Permit (CMP, 321CMR. 10.23) is anticipated, and requisite terms have been determined in conference with NHESP. (Tracking No. 07-23061)

C. Does the project site fall within mapped rare species habitat (Priority or Estimated Habitat?) in the current Massachusetts Natural Heritage Atlas (attach relevant page)? __X__ Yes ___ No.

See Current MAGIS Estimated and Priority Habitat Datalayers.

D. If you answered "No" to all questions A, B and C, proceed to the **Wetlands, Waterways, and Tidelands Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Rare Species section below.

II. Impacts and Permits

A. Does the project site fall within Priority or Estimated Habitat in the current Massachusetts Natural Heritage Atlas (attach relevant page)? __X__ Yes ___ No.

See Current MAGIS Estimated and Priority Habitat Datalayers.

If yes,

1. Have you consulted with the Division of Fisheries and Wildlife Natural Heritage and Endangered Species Program (NHESP)? __X__ Yes ___ No;

NHESP has been consulted repeatedly and has endorsed methodology for field studies conducted in anticipation of site development. The NHESP has been provided with field generated data with regard to vernal pool status and rare species observation generated via approved drift-fence and pitfall study at the site.

if yes, have you received a determination as to whether the project will result in the "take" of a rare species? __X__ Yes ___ No; if yes, attach the letter of determination to this submission.

See attachment 8.

2. Will the project "take" an endangered, threatened, and/or species of special concern in accordance with M.G.L. c.131A (see also 321 CMR 10.04)? __X__ Yes ___ No; if yes, provide a summary of proposed measures to minimize and mitigate rare species impacts

The project will have an "insignificant" impact to the local population of the species as determined in consultation with NHESP. This finding allows the Director to issue a Conservation and Management Permit in compliance with the requirements of 321 CMR 10.23.

3. Which rare species are known to occur within the Priority or Estimated Habitat?
Blue-Spotted Salamander - complex (Ambystoma laterale).

4. Has the site been surveyed for rare species in accordance with the Massachusetts Endangered Species Act? _X_ Yes ___ No

5. If your project is within Estimated Habitat, have you filed a Notice of Intent or received an Order of Conditions for this project? ___ Yes _X_ No; if yes, did you send a copy of the Notice of Intent to the Natural Heritage and Endangered Species Program, in accordance with the Wetlands Protection Act regulations? ___ Yes ___ No

NHESP has reviewed areas to be disturbed, as well as those to be conserved under CR and restored from prior, unrelated disturbance. The filing of a Notice of Intent is pending.

B. Will the project "take" an endangered, threatened, and/or species of special concern in accordance with M.G.L. c.131A (see also 321 CMR 10.04)? _X_ Yes ___ No; if yes, provide a summary of proposed measures to minimize and mitigate impacts to significant habitat:

The project development footprint has been evaluated by NHESP. No "Significant Habitat" occurs on the site or vicinity.

See attachment 10 for additional information.

WETLANDS, WATERWAYS, AND TIDELANDS SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **wetlands, waterways, and tidelands** (see 301 CMR 11.03(3))? ___ Yes __X__ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits (or a local Order of Conditions) related to **wetlands, waterways, or tidelands**? __X__ Yes ___ No; if yes, specify which permit:
A Notice of Intent will be filed under the Massachusetts Wetlands Protection Act. The Applicant anticipates that an Order of Conditions will be issued as a result of that review process. A single wetlands crossing is proposed with filling and alteration of less than 5,000 sf. of BVW to gain access to uplands portions of the site. Wetlands replication will be provided as part of that process.

C. If you answered "No" to both questions A and B, proceed to the **Water Supply Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Wetlands, Waterways, and Tidelands Section below.

II. Wetlands Impacts and Permits

A. Does the project require a new or amended Order of Conditions under the Wetlands Protection Act (M.G.L. c.131A)? __X__ Yes ___ No; if yes, has a Notice of Intent been filed? ___ Yes __X__ No; if yes, list the date and MassDEP file number: _____; if yes, has a local Order of Conditions been issued? ___ Yes __X__ No; Was the Order of Conditions appealed? ___ Yes ___ No. Will the project require a Variance from the Wetlands regulations? ___ Yes ___ No.

B. Describe any proposed permanent or temporary impacts to wetland resource areas located on the project site:
A wetland crossing is proposed at the center of the apartment complex site to construct the roadway. A culvert will be installed to maintain flow paths and a wetlands replication area will be constructed on both sides of the crossing to replicate the areas disturbed. Wetlands disturbance is 1,903 sf and a replication area of some 2190 sf is proposed.

C. Estimate the extent and type of impact that the project will have on wetland resources, and indicate whether the impacts are temporary or permanent:

Coastal Wetlands	Area (square feet) or Length (linear feet)	Temporary or Permanent Impact?
Land Under the Ocean	0	0
Designated Port Areas	0	0
Coastal Beaches	0	0
Coastal Dunes	0	0
Barrier Beaches	0	0
Coastal Banks	0	0
Rocky Intertidal Shores	0	0
Salt Marshes	0	0
Land Under Salt Ponds	0	0
Land Containing Shellfish	0	0
Fish Runs	0	0
Land Subject to Coastal Storm Flowage	0	0
Inland Wetlands		
Bank (lf)	0	0
Bordering Vegetated Wetlands	1,903	1903
Isolated Vegetated Wetlands	0	0
Land under Water	0	0

Isolated Land Subject to Flooding	0	0
Bordering Land Subject to Flooding	0	0
Riverfront Area	0	0

D. Is any part of the project:

1. proposed as a **limited project**? ___ Yes __X__ No; if yes, what is the area (in sf)?____
2. the construction or alteration of a **dam**? ___ Yes __X__ No; if yes, describe:
3. fill or structure in a **velocity zone** or **regulatory floodway**? ___ Yes __X__ No
4. dredging or disposal of dredged material? ___ Yes __X__ No; if yes, describe the volume of dredged material and the proposed disposal site:
5. a discharge to an **Outstanding Resource Water (ORW)** or an **Area of Critical Environmental Concern (ACEC)**? ___ Yes __X__ No
6. subject to a wetlands restriction order? ___ Yes __X__ No; if yes, identify the area (in sf):
7. located in buffer zones? __X__ Yes ___No; if yes, how much (in sf) 180,000

E. Will the project:

1. be subject to a local wetlands ordinance or bylaw? ___ Yes __X__ No
2. alter any federally-protected wetlands not regulated under state law? ___ Yes __X__ No; if yes, what is the area (sf)?

III. Waterways and Tidelands Impacts and Permits

A. Does the project site contain waterways or tidelands (including filled former tidelands) that are subject to the Waterways Act, M.G.L.c.91? ___ Yes __X__ No; if yes, is there a current Chapter 91 License or Permit affecting the project site? ___ Yes ___ No; if yes, list the date and license or permit number and provide a copy of the historic map used to determine extent of filled tidelands:

C. Does the project require a new or modified license or permit under M.G.L.c.91? ___ Yes __X__ No; if yes, how many acres of the project site subject to M.G.L.c.91 will be for non-water-dependent use? Current ___ Change ___ Total ___

If yes, how many square feet of solid fill or pile-supported structures (in sf)?

C. For non-water-dependent use projects, indicate the following:

Area of filled tidelands on the site: 0

Area of filled tidelands covered by buildings: 0

For portions of site on filled tidelands, list ground floor uses and area of each use:

Does the project include new non-water-dependent uses located over flowed tidelands?

Yes ___ No __X__

Height of building on filled tidelands_____

Also show the following on a site plan: Mean High Water, Mean Low Water, Water-dependent Use Zone, location of uses within buildings on tidelands, and interior and exterior areas and facilities dedicated for public use, and historic high and historic low water marks.

D. Is the project located on landlocked tidelands? ___ Yes __X__ No; if yes, describe the project's impact on the public's right to access, use and enjoy jurisdictional tidelands and describe measures the project will implement to avoid, minimize or mitigate any adverse impact:

E. Is the project located in an area where low groundwater levels have been identified by a municipality or by a state or federal agency as a threat to building foundations? ___Yes

__X__ No; if yes, describe the project's impact on groundwater levels and describe measures the project will implement to avoid, minimize or mitigate any adverse impact:

F. Is the project non-water-dependent **and** located on landlocked tidelands **or** waterways or tidelands subject to the Waterways Act **and** subject to a mandatory EIR? ___ Yes
__X__ No; *(NOTE: If yes, then the project will be subject to Public Benefit Review and Determination.)*

G. Does the project include dredging? ___ Yes __X__ No; if yes, answer the following questions:
What type of dredging? Improvement ___ Maintenance ___ Both ____
What is the proposed dredge volume, in cubic yards (cys) _____
What is the proposed dredge footprint ____length (ft) ___width (ft)____depth (ft);
Will dredging impact the following resource areas?
Intertidal Yes__ No__; if yes, ___ sq ft
Outstanding Resource Waters Yes__ No__; if yes, ___ sq ft
Other resource area (i.e. shellfish beds, eel grass beds) Yes__ No__; if yes __ sq ft
If yes to any of the above, have you evaluated appropriate and practicable steps to: 1) avoidance; 2) if avoidance is not possible, minimization; 3) if either avoidance or minimize is not possible, mitigation?
If no to any of the above, what information or documentation was used to support this determination?
Provide a comprehensive analysis of practicable alternatives for improvement dredging in accordance with 314 CMR 9.07(1)(b). Physical and chemical data of the sediment shall be included in the comprehensive analysis.
Sediment Characterization
Existing gradation analysis results? __Yes ___No: if yes, provide results.
Existing chemical results for parameters listed in 314 CMR 9.07(2)(b)6? ___Yes ____No; if yes, provide results.
Do you have sufficient information to evaluate feasibility of the following management options for dredged sediment? If yes, check the appropriate option.

Beach Nourishment ___
Unconfined Ocean Disposal ___
Confined Disposal:
Confined Aquatic Disposal (CAD) ___
Confined Disposal Facility (CDF) ___
Landfill Reuse in accordance with COMM-97-001 ___
Shoreline Placement ___
Upland Material Reuse____
In-State landfill disposal____
Out-of-state landfill disposal ____
(NOTE: This information is required for a 401 Water Quality Certification.)

IV. Consistency:

A. Does the project have effects on the coastal resources or uses, and/or is the project located within the Coastal Zone? ___ Yes __X__ No; if yes, describe these effects and the projects consistency with the policies of the Office of Coastal Zone Management:

B. Is the project located within an area subject to a Municipal Harbor Plan? ___ Yes __X__ No; if yes, identify the Municipal Harbor Plan and describe the project's consistency with that plan:

WATER SUPPLY SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **water supply** (see 301 CMR 11.03(4))? ___ Yes __X__ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **water supply**? ___ Yes __X__ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Wastewater Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Water Supply Section below.

II. Impacts and Permits

A. Describe, in gallons per day (gpd), the volume and source of water use for existing and proposed activities at the project site:

	Existing	Change	Total
Municipal or regional water supply	_____	_____	_____
Withdrawal from groundwater	_____	_____	_____
Withdrawal from surface water	_____	_____	_____
Interbasin transfer	_____	_____	_____

(NOTE: Interbasin Transfer approval will be required if the basin and community where the proposed water supply source is located is different from the basin and community where the wastewater from the source will be discharged.)

B. If the source is a municipal or regional supply, has the municipality or region indicated that there is adequate capacity in the system to accommodate the project? _____ Yes ___ No

C. If the project involves a new or expanded withdrawal from a groundwater or surface water source, has a pumping test been conducted? ___ Yes ___ No; if yes, attach a map of the drilling sites and a summary of the alternatives considered and the results. _____

D. What is the currently permitted withdrawal at the proposed water supply source (in gallons per day)? _____Will the project require an increase in that withdrawal? _____No; if yes, then how much of an increase (gpd)? _____

E. Does the project site currently contain a water supply well, a drinking water treatment facility, water main, or other water supply facility, or will the project involve construction of a new facility? _ _____ Yes ____No. If yes, describe existing and proposed water supply facilities at the project site:

	Permitted Flow	Existing Avg Daily Flow	Project Flow	Total
Capacity of water supply well(s) (gpd)	_____	_____	_____	_____
Capacity of water treatment plant (gpd)	_____	_____	_____	_____

F. If the project involves a new interbasin transfer of water, which basins are involved, what is the direction of the transfer, and is the interbasin transfer existing or proposed?

G. Does the project involve:

1. new water service by the Massachusetts Water Resources Authority or other agency of the Commonwealth to a municipality or water district? ___ Yes _ ___ No
2. a Watershed Protection Act variance? ___ Yes ___ No; if yes, how many acres of alteration?
3. a non-bridged stream crossing 1,000 or less feet upstream of a public surface drinking water supply for purpose of forest harvesting activities? ___ Yes ____ No

III. Consistency

Describe the project's consistency with water conservation plans or other plans to enhance water resources, quality, facilities and services:

Green Design & Implementation:

Consistent with state mandates, low flow plumbing fixtures will be used in all buildings, reducing daily water consumption. Specific to water conservation measures, drought resistant, native species will be incorporated whenever practicable. In addition, an onsite irrigation well will be used; thus, no public water will be necessary for landscape maintenance. The nature of the site design as a low impact development with drought resistant plantings along with the use of an on site irrigation well all work to minimize site development impacts. Permeable pavement surfaces will be utilized as part of the development of the residential subdivision to further reduce impacts and provide localized groundwater treatment and recharge

The diverse, varied design of the housing units proposed in this project is the key to this project's green design. Specifically, the site is proposed to be developed as a compact footprint, with reduced impervious area. Data shows that apartment residents use less carbon-based fuels than do single family residents, resulting in less gas and electrical consumption per apartment unit compared with the consumption in a typical single family home. Further, apartment dwellers use less water per dwelling unit than do single family residents. The National Multi Housing Council report on their website: "Data from the U.S. Energy Information Administration consistently shows that people living in apartments use less energy per household and per household member than their counterparts in single-family houses. This reflects certain efficiencies inherent in the design and operation of multifamily buildings including compact design, small unit size and limited exterior openings and exposures."

WASTEWATER SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **wastewater** (see 301 CMR 11.03(5))? ___ Yes __X__ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **wastewater**? __X__ Yes ___ No; if yes, specify which permit:

BRP WP 83 - Hydrogeologic Evaluation Report

BRP WP 81 Individual Permit for Small Wastewater Treatment Facilities

C. If you answered "No" to both questions A and B, proceed to the **Transportation -- Traffic Generation Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Wastewater Section below.

II. Impacts and Permits

A. Describe the volume (in gallons per day) and type of disposal of wastewater generation for existing and proposed activities at the project site (calculate according to 310 CMR 15.00 for septic systems or 314 CMR 7.00 for sewer systems):

	Existing	Change	Total
Discharge of sanitary wastewater	0	55,005	55,005
Discharge of industrial wastewater	0	0	0
TOTAL	0	55,005	55,005

	Existing	Change	Total
Discharge to groundwater	0	55,005	55,005
Discharge to outstanding resource water			
Discharge to surface water			
Discharge to municipal or regional wastewater facility			
TOTAL	**0**	**55,005**	**55,005**

B. Is the existing collection system at or near its capacity? ___ Yes __X__ No; if yes, then describe the measures to be undertaken to accommodate the project's wastewater flows:

New facility proposed.

C. Is the existing wastewater disposal facility at or near its permitted capacity? ___ Yes __X__ No; if yes, then describe the measures to be undertaken to accommodate the project's wastewater flows:

New facility proposed.

D. Does the project site currently contain a wastewater treatment facility, sewer main, or other wastewater disposal facility, or will the project involve construction of a new facility? ___ Yes __X__ No; if yes, describe as follows:

	Permitted	Existing Avg Daily Flow	Project Flow	Total
Wastewater treatment plant capacity (in gallons per day)	**0**	**0**	**55,005**	**55,005**

E. If the project requires an interbasin transfer of wastewater, which basins are involved, what is the direction of the transfer, and is the interbasin transfer existing or new?
N/A
(NOTE: Interbasin Transfer approval may be needed if the basin and community where wastewater will be discharged is different from the basin and community where the source of water supply is located.)

F. Does the project involve new sewer service by the Massachusetts Water Resources Authority (MWRA) or other Agency of the Commonwealth to a municipality or sewer district? ___ Yes __X__ No

G. Is there an existing facility, or is a new facility proposed at the project site for the storage, treatment, processing, combustion or disposal of sewage sludge, sludge ash, grit, screenings, wastewater reuse (gray water) or other sewage residual materials? ___Yes___ No; if yes, what is the capacity (tons per day):

	Existing	Change	Total
Storage	**0**	**10,000**	**10,000**
Treatment			
Processing			
Combustion			
Disposal			

H. Describe the water conservation measures to be undertaken by the project, and other wastewater mitigation, such as infiltration and inflow removal.
New facility and collection system are proposed. No infiltration or inflow removal will be needed. Prior to placing the system in use, pressure tests of installed collection system lines will be made to ensure the system is installed water tight. This facility will treat the waste stream to near drinking water quality levels and recharge the entire volume to the local aquifer. On site drainage systems will also recharge runoff, after pre-treatment to the local groundwater system. The apartment complex will utilize low flow water fixtures, as is required by modern plumbing code requirements. The irrigation system will utilize an on-site well to avoid the use of town water supplies.

III. Consistency

A. Describe measures that the proponent will take to comply with applicable state, regional, and local plans and policies related to wastewater management:

BRP WP 83 - Hydrogeologic Evaluation Report
- *Hydrogeologic study of the disposal site and surroundings*

BRP WP 81 Individual Permit for Small Wastewater Treatment Facilities
- *Engineering report*
- *Plans and specifications for the effluent disposal area & treatment system*
- *Statement by a Registered Professional Engineer that wastewater treatment plant plans and specifications have been prepared in accordance with MassDEP standards*
- *Groundwater monitoring plan*

B. If the project requires a sewer extension permit, is that extension included in a comprehensive wastewater management plan? ___ Yes __X__ No; if yes, indicate the EEA number for the plan and whether the project site is within a sewer service area recommended or approved in that plan:

Sewer Extension Permit - Not Applicable

TRANSPORTATION SECTION (TRAFFIC GENERATION)

I. Thresholds / Permit

A. Will the project meet or exceed any review thresholds related to **traffic generation** (see 301 CMR 11.03(6))? __X__ Yes ___ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **state-controlled roadways**? __X__ Yes ___ No; if yes, specify which permit: ***MA DOT Highway Access Permit***

C. If you answered "No" to both questions A and B, proceed to the **Roadways and Other Transportation Facilities Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Traffic Generation Section below.

II. Traffic Impacts and Permits

A. Describe existing and proposed vehicular traffic generated by activities at the project site:

	Existing	Change	Total
Number of parking spaces	0	447	447
Number of vehicle trips per day	0	1,562	1,562

ITE Land Use Code: LUC 210 – Single Family Detached Housing, LUC 220 – Apartments and ITE LUC 230 Townhouse/Condominium

B. What is the estimated average daily traffic on roadways serving the site?

Roadway	Existing	Change	Total
1. Great Road, west of site	16,850	830	17,680
2. _____			
3. _____			

C. If applicable, describe proposed mitigation measures on state-controlled roadways that the project proponent will implement:

The project proponent is proposing to widen Great Road eastbound at the intersection with the proposed site driveway to incorporate an exclusive left-turn lane.

D. How will the project implement and/or promote the use of transit, pedestrian and bicycle facilities and services to provide access to and from the project site?

An on-site sidewalk system will be tied into the sidewalk system in the neighboring Nagog Park. Bicycle accommodations will be provided on site. There is currently no public transit on Great Road in the site vicinity.

E. Is there a Transportation Management Association (TMA) that provides transportation demand management (TDM) services in the area of the project site? ____ Yes __X__ No; if yes, describe if and how will the project will participate in the TMA:

F. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation facilities? ____ Yes __X__ No; if yes, generally describe:

G. If the project will penetrate approach airspace of a nearby airport, has the proponent filed a Massachusetts Aeronautics Commission Airspace Review Form (780 CMR 111.7) and a Notice of

Proposed Construction or Alteration with the Federal Aviation Administration (FAA) (CFR Title 14 Part 77.13, forms 7460-1 and 7460-2)?

N/A

III. Consistency

Describe measures that the proponent will take to comply with municipal, regional, state, and federal plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities and services:

Traffic analyses have been performed in accordance with Massachusetts Department of Transportation (MassDOT) and Executive Office of Energy and Environmental Affairs (EEA) guidelines. The proposed project will be designed to comply with and expand upon transportation planning efforts of the Town of Littleton, and MassDOT.

TRANSPORTATION SECTION (ROADWAYS AND OTHER TRANSPORTATION FACILITIES)

I. Thresholds

A. Will the project meet or exceed any review thresholds related to **roadways or other transportation facilities** (see 301 CMR 11.03(6))? ___ Yes __X_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **roadways or other transportation facilities**? ___ Yes _X__ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Energy Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Roadways Section below.

II. Transportation Facility Impacts

A. Describe existing and proposed transportation facilities in the immediate vicinity of the project site:

B. Will the project involve any

1. Alteration of bank or terrain (in linear feet)? _____
2. Cutting of living public shade trees (number)? _____
3. Elimination of stone wall (in linear feet)? _____

III. Consistency -- Describe the project's consistency with other federal, state, regional, and local plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities and services, including consistency with the applicable regional transportation plan and the Transportation Improvements Plan (TIP), the State Bicycle Plan, and the State Pedestrian Plan:

ENERGY SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **energy** (see 301 CMR 11.03(7))? ___ Yes _X_ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **energy**? ___ Yes _X_ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Air Quality Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Energy Section below.

II. Impacts and Permits

A. Describe existing and proposed energy generation and transmission facilities at the project site:

	Existing	Change	Total
Capacity of electric generating facility (megawatts)	_____	_____	_____
Length of fuel line (in miles)	_____	_____	_____
Length of transmission lines (in miles)	_____	_____	_____
Capacity of transmission lines (in kilovolts)	_____	_____	_____

B. If the project involves construction or expansion of an electric generating facility, what are:

1. the facility's current and proposed fuel source(s)?
2. the facility's current and proposed cooling source(s)?

C. If the project involves construction of an electrical transmission line, will it be located on a new, unused, or abandoned right of way? ___Yes ___No; if yes, please describe:

D. Describe the project's other impacts on energy facilities and services:

III. Consistency

Describe the project's consistency with state, municipal, regional, and federal plans and policies for enhancing energy facilities and services:

AIR QUALITY SECTION

I. Thresholds

A. Will the project meet or exceed any review thresholds related to **air quality** (see 301 CMR 11.03(8))? ___ Yes __X__ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **air quality**? ___ Yes __X__ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Solid and Hazardous Waste Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Air Quality Section below.

II. Impacts and Permits

A. Does the project involve construction or modification of a major stationary source (see 310 CMR 7.00, Appendix A)? ___ Yes __X__ No; if yes, describe existing and proposed emissions (in tons per day) of:

	Existing	Change	Total
Particulate matter			
Carbon monoxide			
Sulfur dioxide			
Volatile organic compounds			
Oxides of nitrogen			
Lead			
Any hazardous air pollutant			
Carbon dioxide			

B. Describe the project's other impacts on air resources and air quality, including noise impacts: In accordance with Article XVII, Noise, §173-78 (7) of the Code of the Town of Littleton, construction equipment will only operate between the hours of 7:00 a.m. and 7:00 p.m. only.

Dust control practices will be implemented to reduce or prevent the surface and air transport of dust during construction. Dust control measures for construction activities may include the minimization of soil disturbance, the application of mulch, the establishment of vegetation, water spraying, or surface roughening when necessary.

III. Consistency

A. Describe the project's consistency with the State Implementation Plan:

B. Describe measures that the proponent will take to comply with other federal, state, regional, and local plans and policies related to air resources and air quality:

The project will adhere to the Massachusetts General Law (MGL Chapter 90, Section 16A) and the Massachusetts Department of Environmental Protection (DEP) idling reduction regulation (310 CMR 7.11(1)(b)). Additionally, local construction noise regulations will be followed Article XVII, Noise, §173-78 (7)).

SOLID AND HAZARDOUS WASTE SECTION

I. Thresholds / Permits

A. Will the project meet or exceed any review thresholds related to **solid or hazardous waste** (see 301 CMR 11.03(9))? ___ Yes __X__ No; if yes, specify, in quantitative terms:

B. Does the project require any state permits related to **solid and hazardous waste**? ___ Yes __X__ No; if yes, specify which permit:

C. If you answered "No" to both questions A and B, proceed to the **Historical and Archaeological Resources Section**. If you answered "Yes" to either question A or question B, fill out the remainder of the Solid and Hazardous Waste Section below.

II. Impacts and Permits

A. Is there any current or proposed facility at the project site for the storage, treatment, processing, combustion or disposal of solid waste? ___ Yes __X__ No; if yes, what is the volume (in tons per day) of the capacity:

	Existing	Change	Total
Storage			
Treatment, processing			
Combustion			
Disposal			

B. Is there any current or proposed facility at the project site for the storage, recycling, treatment or disposal of hazardous waste? ___ Yes __X__ No; if yes, what is the volume (in tons or gallons per day) of the capacity:

	Existing	Change	Total
Storage			
Recycling			
Treatment			
Disposal			

C. If the project will generate solid waste (for example, during demolition or construction), describe alternatives considered for re-use, recycling, and disposal:

D. If the project involves demolition, do any buildings to be demolished contain asbestos? ___ Yes ___ No

E. Describe the project's other solid and hazardous waste impacts (including indirect impacts):

III. Consistency

Describe measures that the proponent will take to comply with the State Solid Waste Master Plan:

HISTORICAL AND ARCHAEOLOGICAL RESOURCES SECTION

I. Thresholds / Impacts

A. Have you consulted with the Massachusetts Historical Commission? _X_ Yes ___ No; if yes, attach correspondence. For project sites involving lands under water, have you consulted with the Massachusetts Board of Underwater Archaeological Resources? ____Yes ____ No; if yes, attach correspondence.

In October and November of 2011, an intensive (locational) archeological survey of the site was conducted by The Public Archaeology Laboratory, Inc. of Pawtucket, Rhode Island. Subsurface testing consisted of 78, 50 x 50cm test pits excavated at 10meter intervals along three judgmental transects, in three 30x30m sampling blocks and in one specific location (judgmental test pit). No pre-contact Native American archaeological sites were identified in the project area; no further archaeological investigation of the project site was recommended.

According to The Public Archaeology Laboratory, Inc. the site is "not considered to represent potentially significant cultural resources that would be eligible for listing in the National Register of Historic Places." The report further concludes that "No further archaeological investigation of the 15 Great Road project area is recommended."

See Attachment 11, Management Abstract, Intensive Archaeological Survey, 15 Great Road Development, for additional information.

B. Is any part of the project site a historic structure, or a structure within a historic district, in either case listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth? ___ Yes _X_ No; if yes, does the project involve the demolition of all or any exterior part of such historic structure? ___ Yes ___ No; if yes, please describe:

C. Is any part of the project site an archaeological site listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth? ___ Yes _X_ No; if yes, does the project involve the destruction of all or any part of such archaeological site? ___ Yes ___ No; if yes, please describe:

D. If you answered "No" to all parts of both questions A, B and C, proceed to the **Attachments and Certifications** Sections. If you answered "Yes" to any part of either question A or question B, fill out the remainder of the Historical and Archaeological Resources Section below.

II. Impacts

Describe and assess the project's impacts, direct and indirect, on listed or inventoried historical and archaeological resources:

See Sec. 1. Thresholds/Impacts, above.

III. Consistency

Describe measures that the proponent will take to comply with federal, state, regional, and local plans and policies related to preserving historical and archaeological resources:

See Sec. 1. Thresholds/Impacts, above.

CERTIFICATIONS:

1. The Public Notice of Environmental Review has been/will be published in the following newspapers in accordance with 301 CMR 11.15(1):

   (Name) Lowell Sun (Date) August 31, 2012

2. This form has been circulated to Agencies and Persons in accordance with 301 CMR 11.16(2).

   See Figure 8. Distribution List

Signatures:

D Hale 8/30/12

Date	Signature of ~~Responsible Officer~~ ~~or~~ Proponent	Date	Signature of person preparing NPC (if different from above)

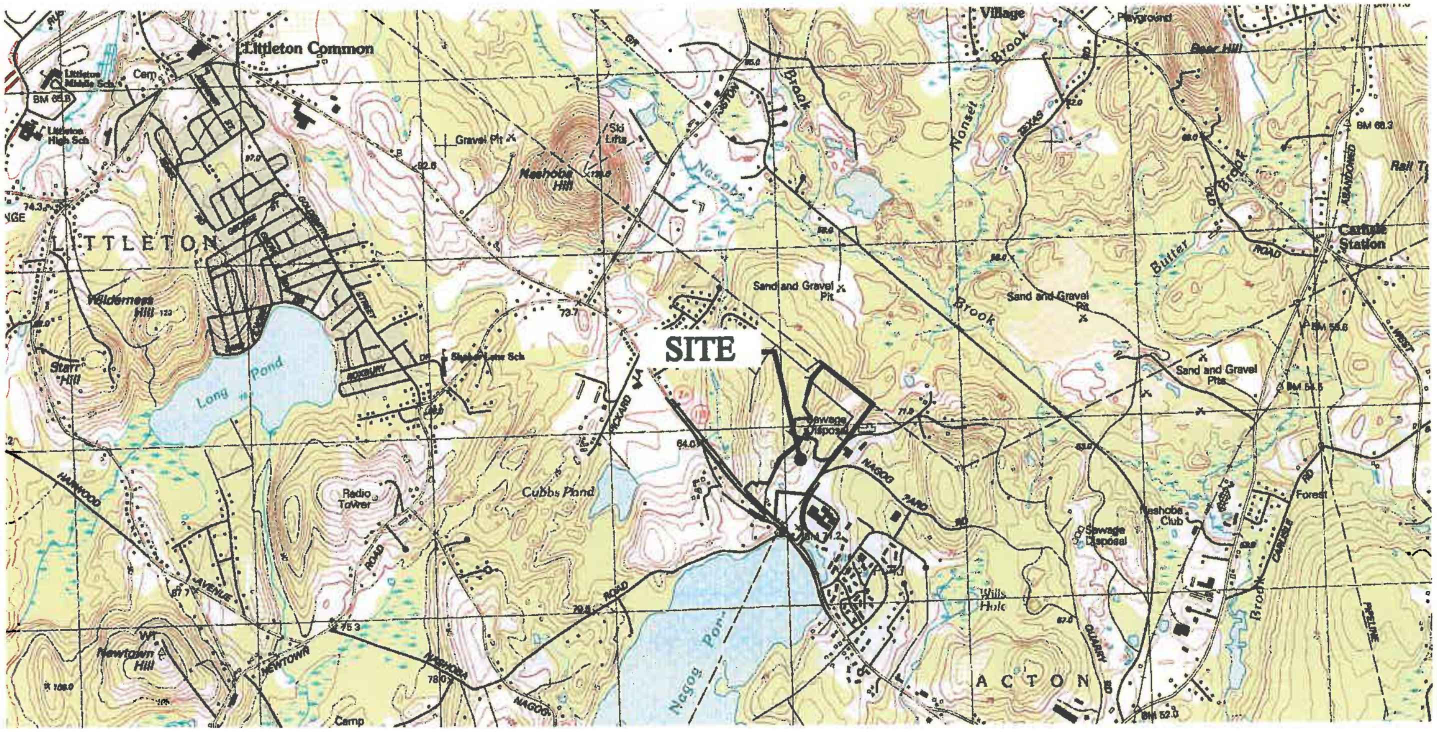
David E. Hale, Manager
Name (print or type) Name (print or type)

15 Great Rd. LLC
Firm/Agency Firm/Agency

200 Baker Ave. Suite 303
Street Street

Concord, MA 01742
Municipality/State/Zip Municipality/State/Zip

978-369-4884
Phone Phone



LOCUS

SCALE: 1" = 2083'

FIGURE 1

LOCATION: 15 GREAT ROAD
TOWN: LITTLETON, MASSACHUSETTS
PREPARED FOR:

FIFTEEN GREAT ROAD LLC

SCALE: AS SHOWN DATE: August 27, 2012

Places Associates, Inc.

Planning, Landscape Architecture, Civil Engineering, Surveying
510 KING STREET, SUITE 8
LITTLETON, MA 01460
978.486.0334
978.486.0447 Fax
EMAIL: places@verizon.net

PROJECT No.: 11-6303 PLAN No. NEPA-LOCUS

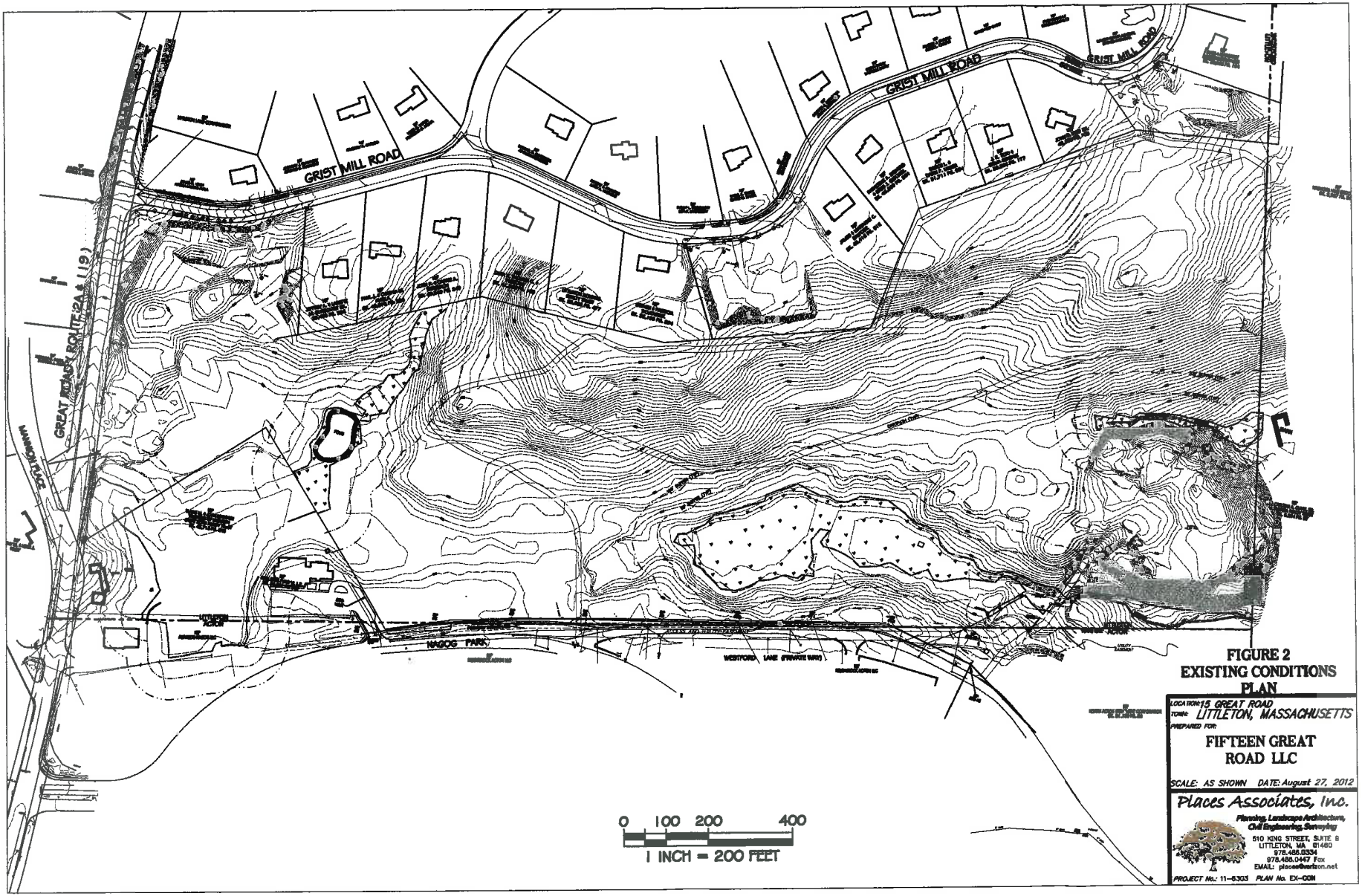


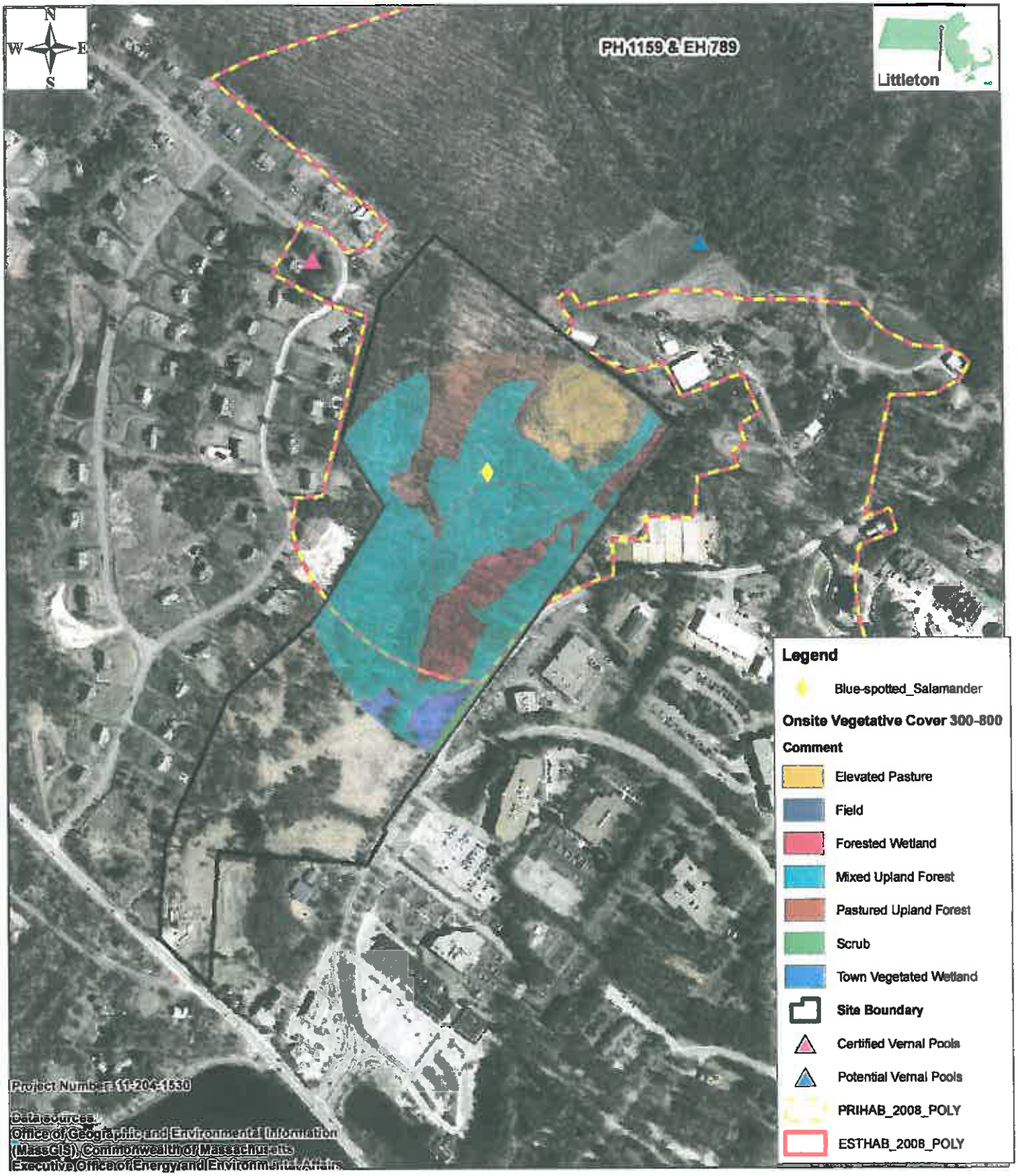
FIGURE 2
EXISTING CONDITIONS PLAN

LOCATION: 15 GREAT ROAD
TOWN: LITTLETON, MASSACHUSETTS
PREPARED FOR:
FIFTEEN GREAT ROAD LLC

SCALE: AS SHOWN DATE: August 27, 2012

Places Associates, Inc.
Planning, Landscape Architecture, Civil Engineering, Surveying
510 KING STREET, SUITE 8
LITTLETON, MA 01460
978.486.0334
978.486.0447 Fax
EMAIL: places@verizon.net

PROJECT No.: 11-8303 PLAN No. EX-CON



Orthophotograph
15 Great Road
Littleton, MA

July 11, 2012

1:6,000

1 inch equals 500 feet

0 500
Feet

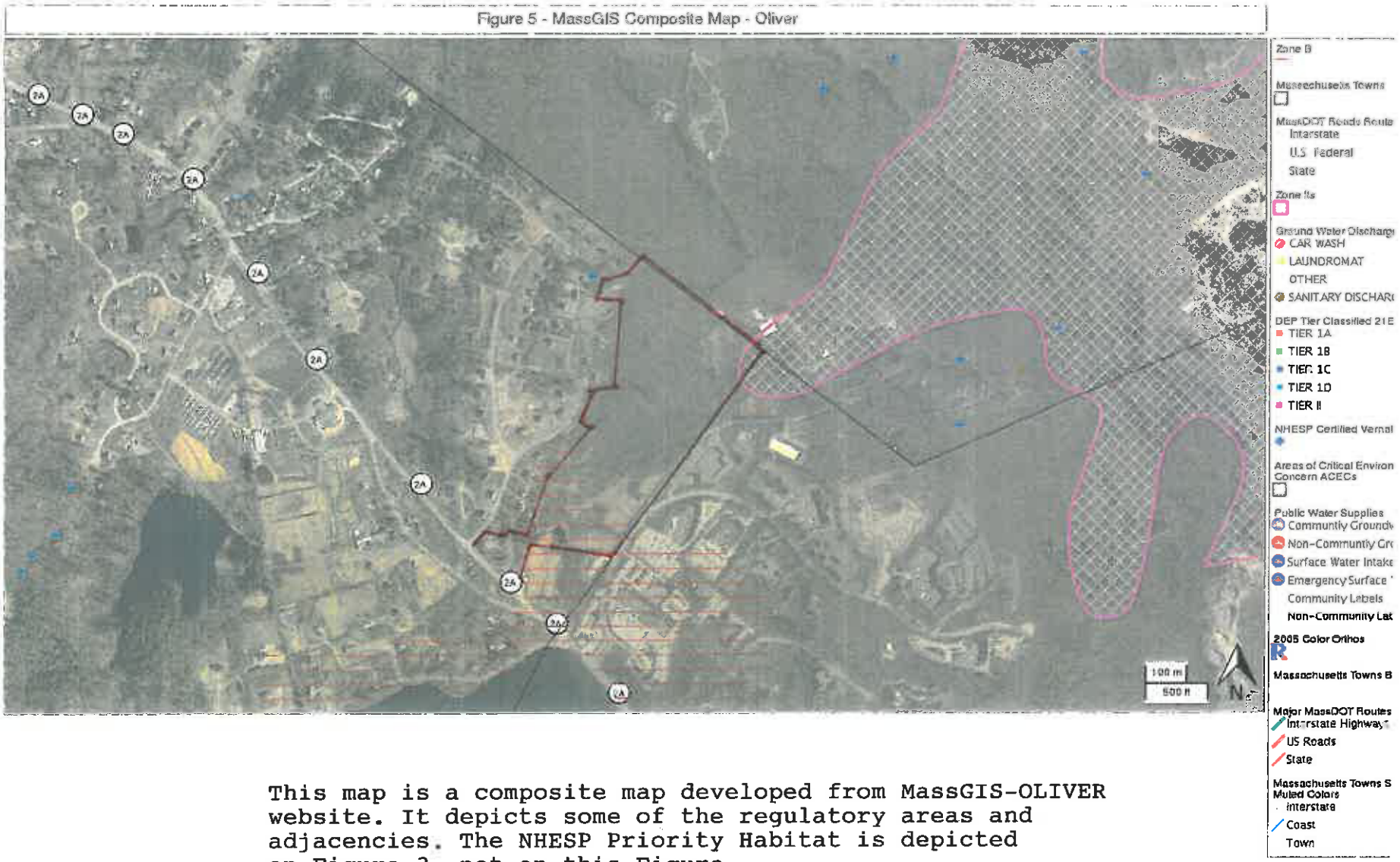
OXBOW ASSOCIATES, Inc.
Wetlands Delineation and Permitting
Wildlife Studies * Herpetology
Vernal Pool Ecology
P.O. BOX 971
ACTON, MA 01720-0971
PHONE: (978)929-9058
FAX: (978)635-1892
WWW.OXBOWASSOCIATES.COM

Figure 3

Exhibit 4 – Adjacent Buildings

15 Great Road, Littleton MA

Figure 4: Adjacent Uses



This map is a composite map developed from MassGIS-OLIVER website. It depicts some of the regulatory areas and adjacencies. The NHESP Priority Habitat is depicted on Figure 3, not on this Figure.

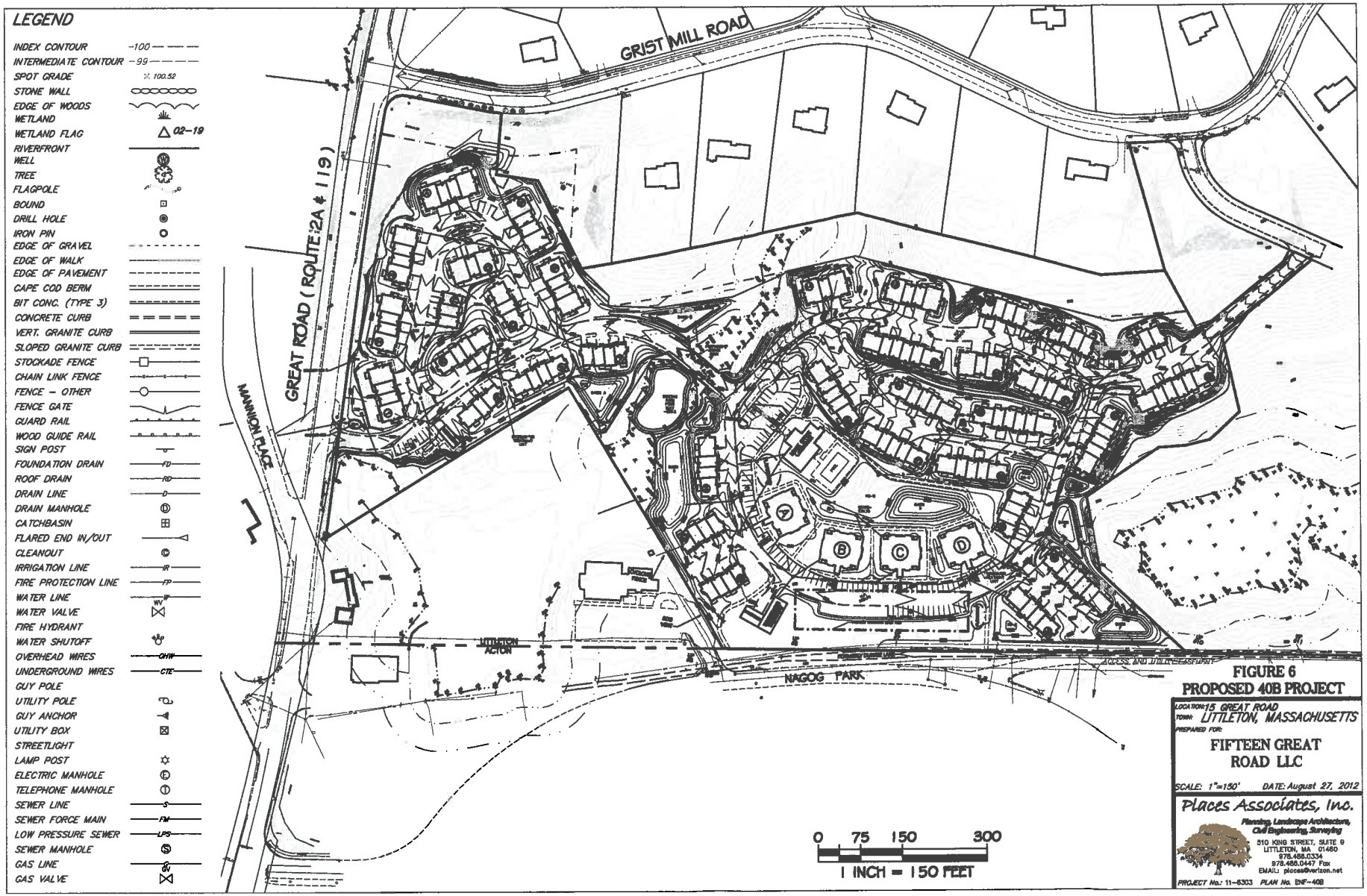


FIGURE 6
PROPOSED 40B PROJECT

LOCATION: 15 GREAT ROAD
TOWN: LITTLETON, MASSACHUSETTS
PREPARED FOR:

FIFTEEN GREAT ROAD LLC

SCALE: 1"=150' DATE: August 27, 2012

Places Associates, Inc.
Planning, Landscape Architecture, Civil Engineering, Surveying
510 KING STREET, SUITE 9
LITTLETON, MA 01460
978.486.0334
978.486.0447 Fax
EMAIL: places@verizon.net

PROJECT No.: 11-6303 PLAN No. ENF-40B

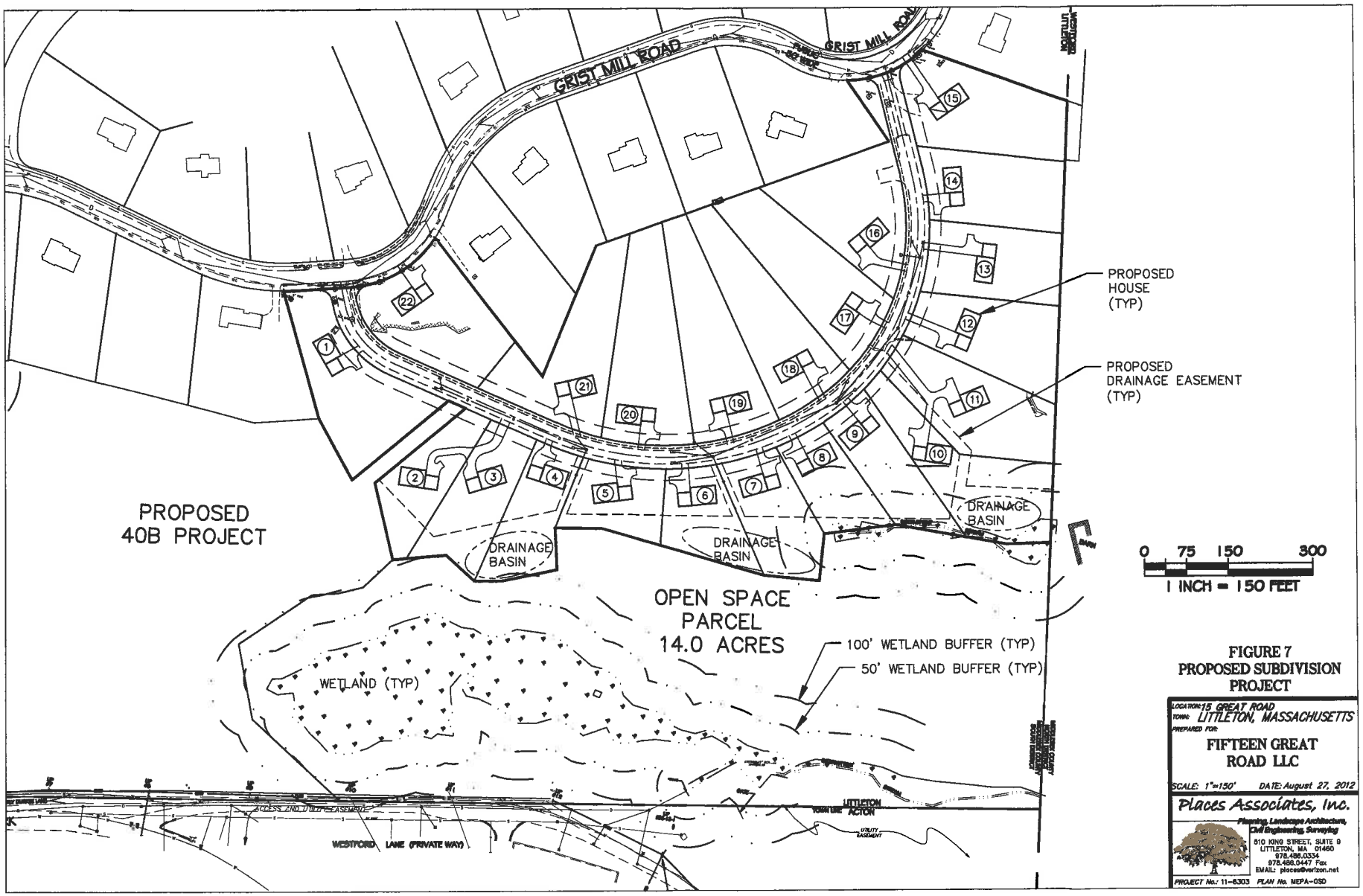


FIGURE 7
PROPOSED SUBDIVISION PROJECT

LOCATION: 15 GREAT ROAD
TOWN: LITTLETON, MASSACHUSETTS
PREPARED FOR:
FIFTEEN GREAT ROAD LLC

SCALE: 1"=150' DATE: August 27, 2012

Places Associates, Inc.
Planning, Landscape Architecture, Civil Engineering, Surveying
510 KING STREET, SUITE 9
LITTLETON, MA 01460
978.486.0334
978.486.0447 Fax
EMAIL: places@verizon.net

PROJECT No.: 11-8303 PLAN No. MEPA-OSD

Initial Distribution List for an Environmental Notification Form (ENF):

Village Green (Comprehensive Permit Project)

The Orchards (Single Family Home, residential Subdivision)

Secretary Richard K. Sullivan, Jr. — Two sets
Executive Office of Energy and Environmental Affairs (EEA)
Attn: MEPA Office
100 Cambridge Street, Suite 900
Boston, MA 02114

The Department of Environmental Protection
Commissioner's Office
One Winter Street
Boston, MA 02108

DEP/Central Regional Office
Attn: MEPA Coordinator
627 Main Street
Worcester, MA 01608

Mass DOT -
Public/Private Development Unit
10 Park Plaza
Boston, MA 02116

Mass DOT - District #3
Attn: MEPA Coordinator
403 Belmont Street
Worcester, MA 01064

The Massachusetts Historic Commission
The MA Archives Building
220 Morrissey Boulevard
Boston, MA 02125

Metropolitan Area Planning Council
60 Temple Place/6th floor
Boston, MA 02111

Town of Littleton at:

Littleton Municipal Building
37 Shattuck Street
P.O. Box 1305
Littleton, MA 01460
Shattuck Street School

1. Board of Selectmen
2. Planning Board
3. Conservation Commission
4. Board of Health
5. Zoning Board of Appeals

Natural Heritage and Endangered Species Program
Commonwealth of Massachusetts
Route 135
Westborough MA 01581

Massachusetts Bay Transit Authority
Attn: MEPA Coordinator
10 Park Plaza, 6th Fl.
Boston, MA 02216-3966

The proponent shall promptly send a copy of the ENF, free of charge, to any Agency or Person requesting it during the review period for the ENF. The Proponent shall maintain a list of each Person or Agency requesting a copy, the date of each request, and the date each copy was sent out. The Secretary may extend the review period for the ENF as a result of undue delay by the Proponent in providing copies.

Figure 9

List of Local and Federal Permits

for the

Environmental Notification Form (ENF)Application

for

Village Green (Comprehensive Permit Project)

The Orchards (Single Family Home, Residential Subdivision)

Local Permits Required:

Village Green – Comprehensive Permit Project

1. Approval under the Town of Littleton's Model Rules for the Issuance of a Comprehensive Permit, GL C 40B: Zoning Board of Appeals.
2. Notice of Intent (Chapter 171 of the Town of Littleton's Bylaws, §171-1 to 171-9): Littleton Conservation Commission.
3. Littleton Water and Electric Light Department: Local water and electric connections.
4. Town of Littleton Board of Health Regulations, regulation 1- local review of groundwater discharge permits; Board of Health
5. Town of Littleton Trench Permit – per CMR 520 14.00; Building Inspector's Office

Subdivision of Land –"The Orchards"

1. Approval under the Town of Littleton's Zoning Regulations (Chapter 173 of the Town of Littleton's Bylaws) an Article XIX: Open Space Development, §173-94 to 173-118
2. Subdivision Approval under the Town of Littleton's Subdivision of Land Regulations (Chapter 249 of the Town of Littleton's Bylaws)& MGL Chpt. 40A
3. Littleton Water and Electric Light Department: Local water and electric connections.
4. Town of Littleton Board of Health Regulations, regulation 1- local review of groundwater discharge permits; Board of Health
5. Notice of Intent (Chapter 171 of the Town of Littleton's Bylaws, §171-1 to 171-9): Littleton Conservation Commission.
6. Town of Littleton Curb Opening Permit; Board of Selectmen
7. Town of Littleton Trench Permit – per CMR 520 14.00; Building Inspector's Office

Federal Permits:

1. Programmatic General Permit for National Pollutant Discharge Elimination System, US EPA, Region 1, for disturbance of greater than one acre.
2. U.S Army Corps of Engineers, Category 1, Massachusetts General Permit, Clean Water Act, approval issued on Aug 15, 2012, ref: CENAE-R-2012-1708.

Commonwealth of Massachusetts

Division of Fisheries & Wildlife

MassWildlife

Wayne F. MacCallum, *Director*

March 2, 2011

David Hale
Omni Properties LLC
200 Baker Avenue, Suite 303
Concord MA 01742

Re: 15 Great Road and Durkee Lane
NHESP Tracking Number 07-23061
Littleton, Massachusetts

Dear Mr. Hale:

The Natural Heritage and Endangered Species Program of the Massachusetts Division of Fisheries and Wildlife (the "NHESP") has been reviewing the proposed senior housing project discussed in the Oxbow Associates letter dated March 18, 2008 for potential impacts to the Blue-spotted Salamander (*Ambystoma laterale*). The Blue-spotted Salamander is protected pursuant to the Massachusetts Endangered Species Act (MESA) (M.G.L. c. 131A) and its implementing regulations (321 CMR 10.00).

On 11 January 2011, Misty-Anne Marold of my office met with you and your colleagues to discuss your plans to revive a project on the subject site in Littleton. Based upon your conversation, I understand you intend to:

1) Change the proposed use of the site from a senior housing project to a residential project.
2) Propose the same development footprint as contemplated by the Oxbow Associates letter dated March 18, 2008.
3) Maintain the commitments summarized in our letter dated April 24, 2008.

Based on the information discussed at the meeting, the NHESP can affirm the letter sent to you on April 24, 2008 would apply to the residential project. As we discussed and due to the 2010 revisions to the MESA Regulations, NHESP has adjusted the formula for calculating the necessary "Net Benefit" indicated in Number 3 of the letter. This adjustment will reduce the required "Net Benefit" to 1:1.5 thereby reducing the cost required under Number 3 by roughly 30%.

The NHESP believes that the proposed residential project will qualify for a Conservation & Management Permit with inclusion of the above-noted items. Please note, however, that the NHESP will not render a final decision until a formal MESA Review has been conducted pursuant to 321 CMR 10.20, a formal Conservation & Management Permit Application and fee has been submitted, and the MA Environmental Policy Act (MEPA) review process has been completed.

No work, including soil or vegetation alteration, associated with the Proposed Project may occur until the completion of the MESA review process. Thank you for your efforts to address state-listed species regulatory concerns at this early stage of the permitting process. Please do not hesitate to contact Misty-

Anne Marold, Endangered Species Review Biologist, at 508-389-6356 with any questions or comments you may have.

Sincerely,

Thomas W. French

Thomas W. French, Ph.D.
Assistant Director

cc: Brian Butler, Oxbow Associates

MANAGEMENT ABSTRACT

In October and November, 2011 an intensive (locational) archaeological survey of the 15 Great Road development in Littleton, Massachusetts was conducted. The project area is located near Nagog Pond along the east side of Great Road (Route 2A) and adjacent to the Littleton/Acton town line. Archival research indicated that the 15 Great Road project area is in proximity to known areas of pre-contact and contact period Native American settlement centered on the Assabet River and tributary stream drainages such as Nagog and Nashoba brooks.

A number of pre-contact Native American archaeological sites listed in the Massachusetts Historical Commission (MHC) inventory of known cultural resources are in proximity to the project area in Acton and Littleton. The results of a due diligence study conducted for the 15 Great Road Development indicated the project area had the potential to contain evidence of pre-contact Native American activity. This activity was expected to range from low density scatters of chipping debris or isolated chipped stone tools to small (ca 25 to 300 sq m) or moderate (ca 500 to 1000 sq m) sized temporary encampments.
A range of post-contact/historic period cultural resources are located in the vicinity of the 15 Great Road development. The Christian Indian settlement of Nashoba was located on or near Nagog Pond in the mid-seventeenth century. Eight historic architectural resources (ACT.23 - ACT.30) consisting of standing eighteenth and nineteenth century structures are within a half mile of the project area. A late nineteenth century to early modern period granite quarrying complex (Acorn Park Quarries, ACT.HA.1) is located south and east of the project area in Acton. There was some potential for the project area to contain structural remains of an isolated farmstead or house such as a filled cellar hole or fieldstone foundations. The project area was also likely to contain other evidence of historic land use such as farm roads/cart paths and dumps or isolated deposits of domestic refuse (ceramics, glass, bone, shell etc) from nineteenth century to modern period occupancy of nearby houses or farmsteads.

Based on a walkover inspection, the project area contained archaeologically sensitive zones with the potential to contain both pre-contact Native American and post contact EuroAmerican sites. Several parts of the project area had been previously disturbed by past activities such as removal and stockpiling of soil, rock and demolition of a modern period house near Great Road. Other zones of low archaeological sensitivity were formed by wooded wetlands, a small stream drainage and pond, steep slopes and exposed bedrock. Subsurface testing consisted of 78, 50x50cm test pits excavated at 10meter intervals along three judgmental transects, in three 30x30m sampling blocks and in one specific location (judgmental test pit). No pre-contact Native American archaeological sites were identified in the 15 Great Road project area. sites

A small amount of post-contact period cultural material was found in test pits placed within the open fields in the southern part of the project area and next to a small granite block feature. This material consists of ceramic sherds and structural materials (brick, nails, window glass, hardware). The ceramic sherds (white ware, redware) date from the nineteenth century to early modern period and this cultural material represents domestic refuse discarded in the open fields when they were in active agricultural use.

The small granite block feature and cultural materials found during the intensive survey are not considered to represent potentially significant cultural resources that would be eligible for listing in the National Register of Historic Places. No further archaeological investigation of the 15 Great Road project area is recommended.

Figure 11: Management Abstract - Detailed archaeological survey