

Project Update

West Roxbury to Needham Reliability Project

Town of Needham Board of Selectmen Presentation
September 6, 2016

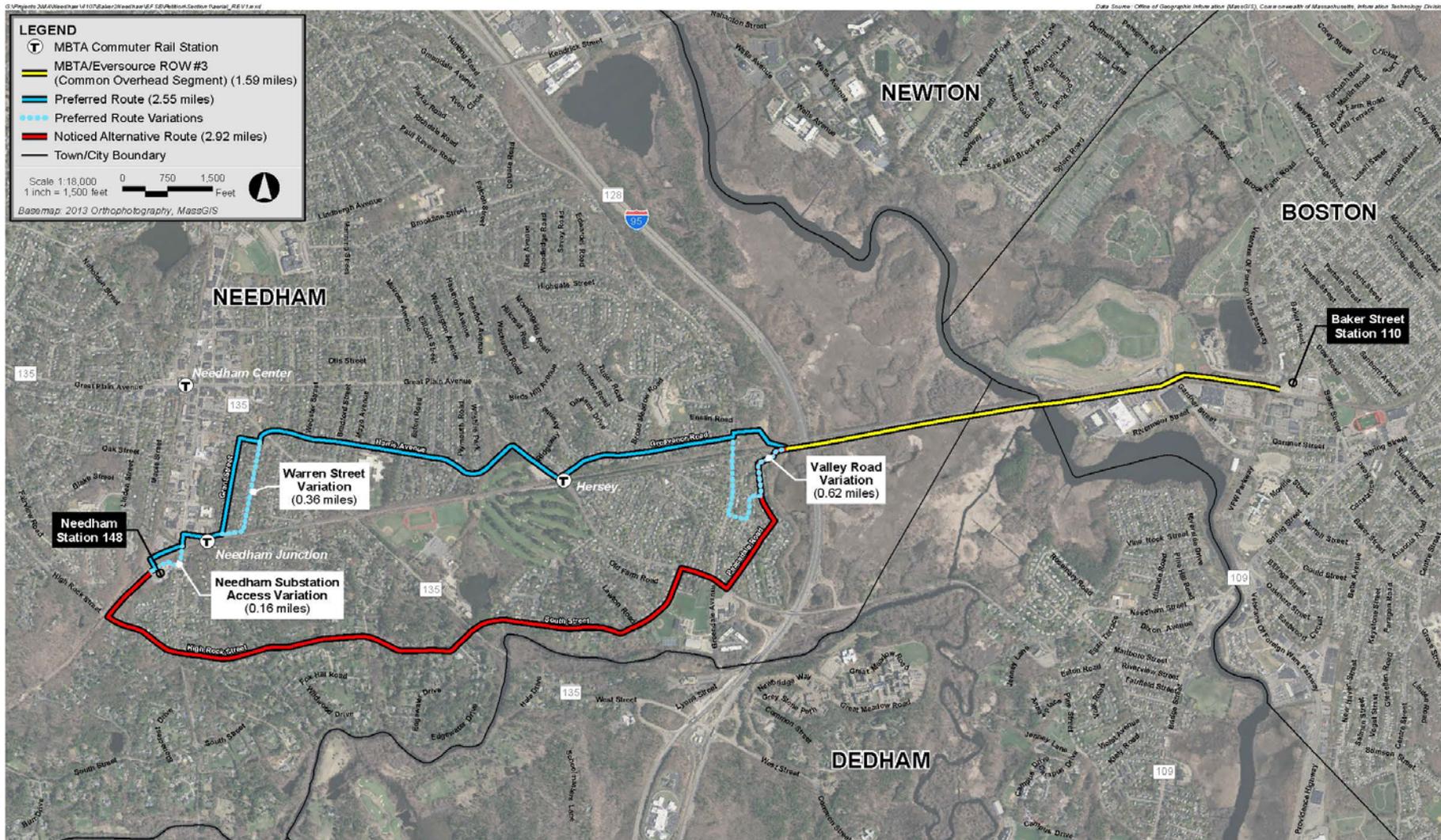
- Review of Project Need & Benefits
- Overview of Proposed Transmission Line Route(s)
- Review of Route & Work Proposed on Municipal Gravel Pit Parcel
- Town Meeting Warrant & Easement Update
- Permitting Update
- Next Steps
- Schedule Update

West Roxbury to Needham Reliability Project

Project Need & Benefits

- Eversource's transmission system is not able to maintain supply to ~65,000 customers in the western Boston suburbs under certain operating conditions.
- Separating the existing 115-kV double circuit tower ("DCT") overhead transmission lines between the Baker Street Substation and the Needham Substation will mitigate potential area overloads and will significantly reduce the number of customers that are exposed to sustained loss of service.
- The Project will have numerous public benefits, the primary of which will be to satisfy the transmission need determined by ISO-NE. In addition to satisfying this need, the Project will provide property taxes in each municipality along the route. It will also provide construction jobs for one to two years, with attendant secondary benefits to local businesses.

West Roxbury to Needham Reliability Project Preferred and Noticed Alternative Routes



West Roxbury to Needham Reliability Project

Preferred UG Route (~2.6 miles)

- Greendale Avenue (via municipal “Gravel Pit” parcel)
- Grosvenor Road
- Broad Meadow Road
- Great Plain Avenue
- Harris Avenue
- School Street
- Grant Street
- Junction Street
- Chestnut Street

Potential Variations to Preferred Route

- Valley Road (via municipal “Gravel Pit” parcel)
- Intervale Road
- Warren Street (in lieu of Grant Street)

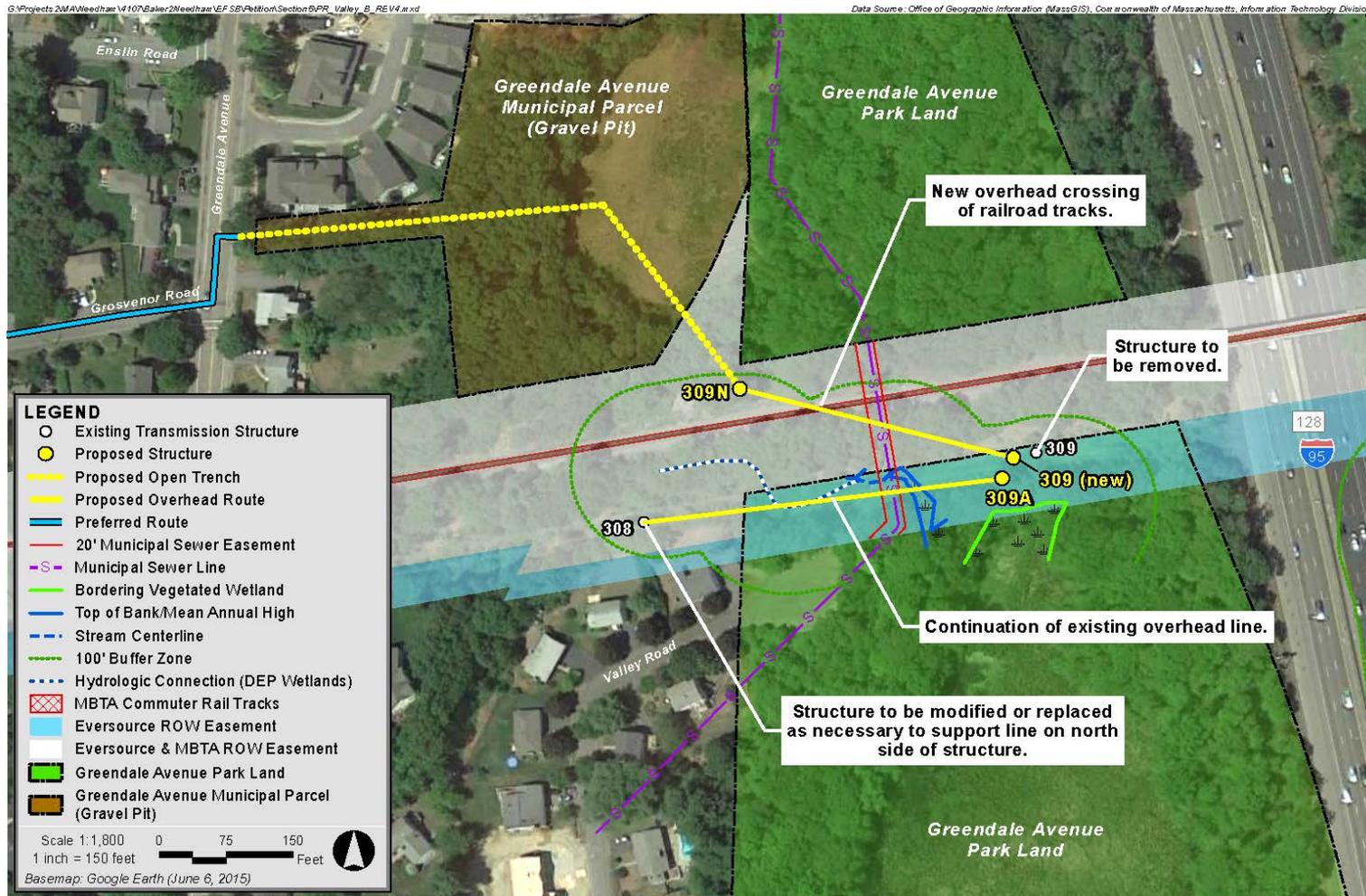
Noticed Alternative UG Route (~3.0 miles)

- Valley Road (via Greendale Avenue Park Land)
- Peacedale Road
- Great Plain Avenue
- South Street
- High Rock Street
- West end of ROW to Needham Substation (via High Rock Street)

Overhead to Underground Transition Point at Valley Road Area

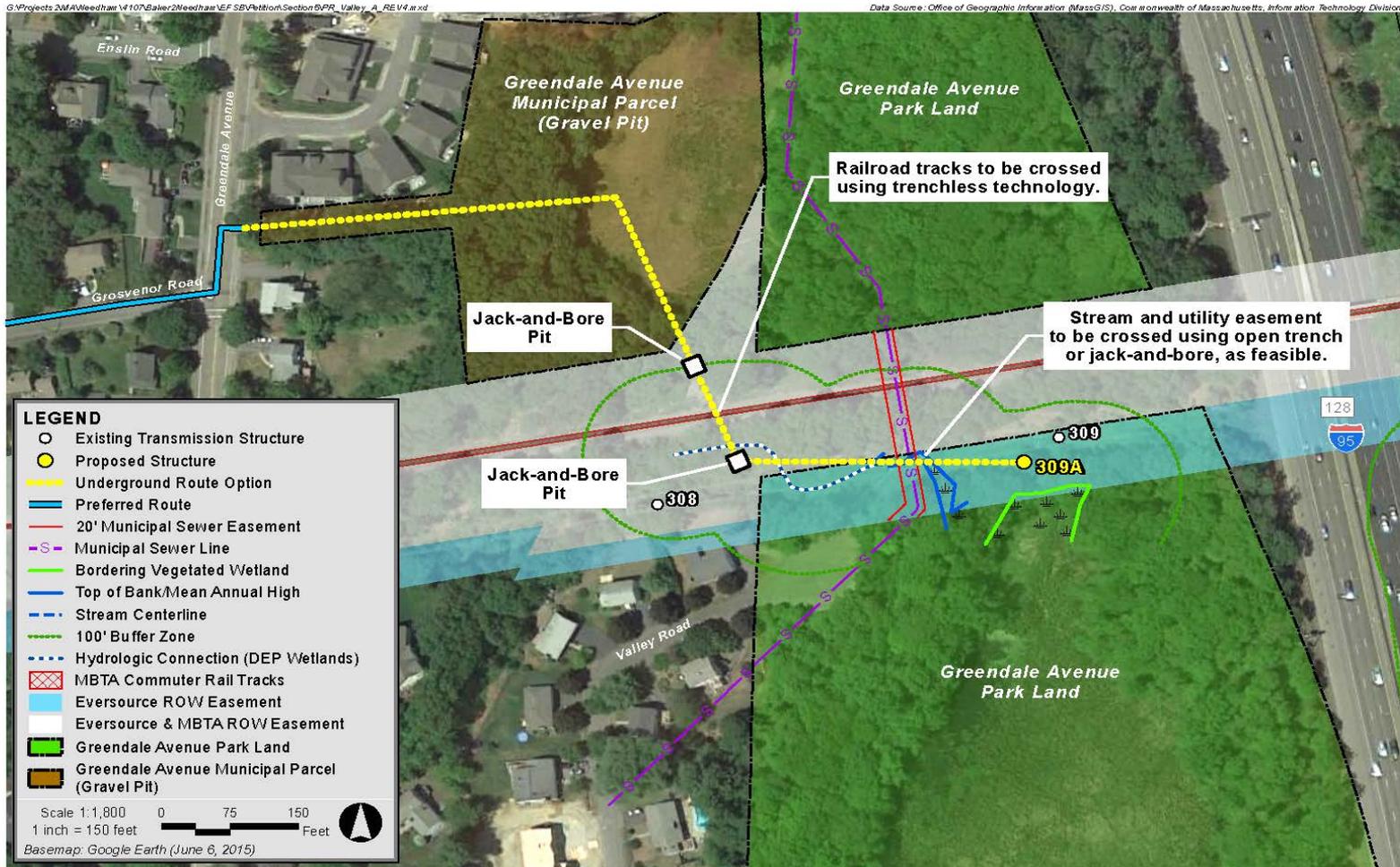
- Eversource has been working diligently and in close partnership with the Town to avoid impacts to the maximum extent practicable to the densely developed residential neighborhoods bordering the ROW west of the Valley Road area and the Town in general.
- To address the Town's concerns, Eversource is proposing to exit the existing ROW with the proposed transmission line at the first practicable location prior to reaching the residential neighborhoods beginning at the Valley Road cul de sac and transitioning to underground transmission line construction on primarily municipal streets.
- Two design options and one route variation are being proposed by Eversource to exit the ROW at Valley Road.

Overhead to Underground Transition Point at Valley Road (Preferred Design - OH SPAN of MBTA TRACKS)



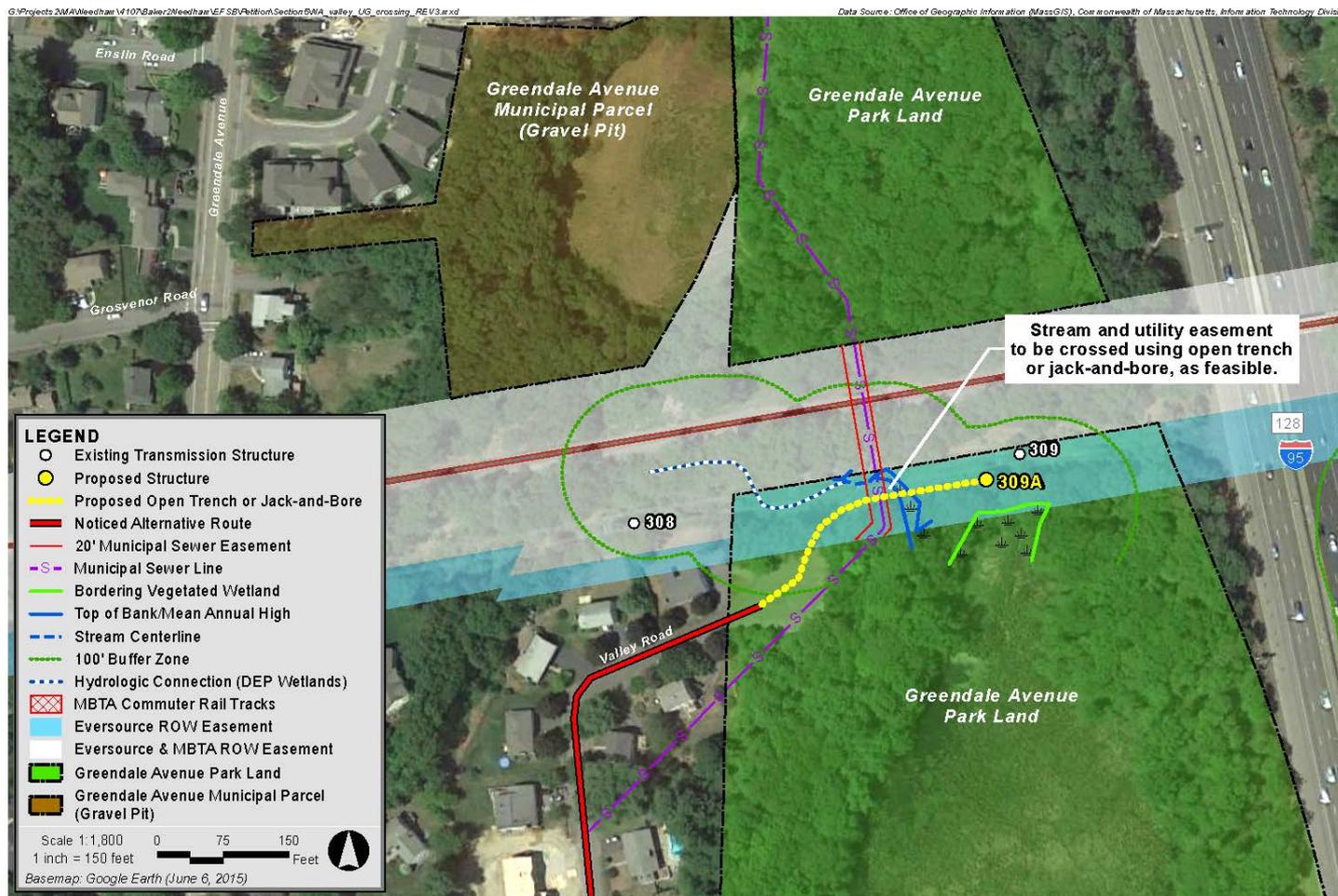
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Overhead to Underground Transition Point at Valley Road (Alternative Design - J&B UNDER MBTA TRACKS)



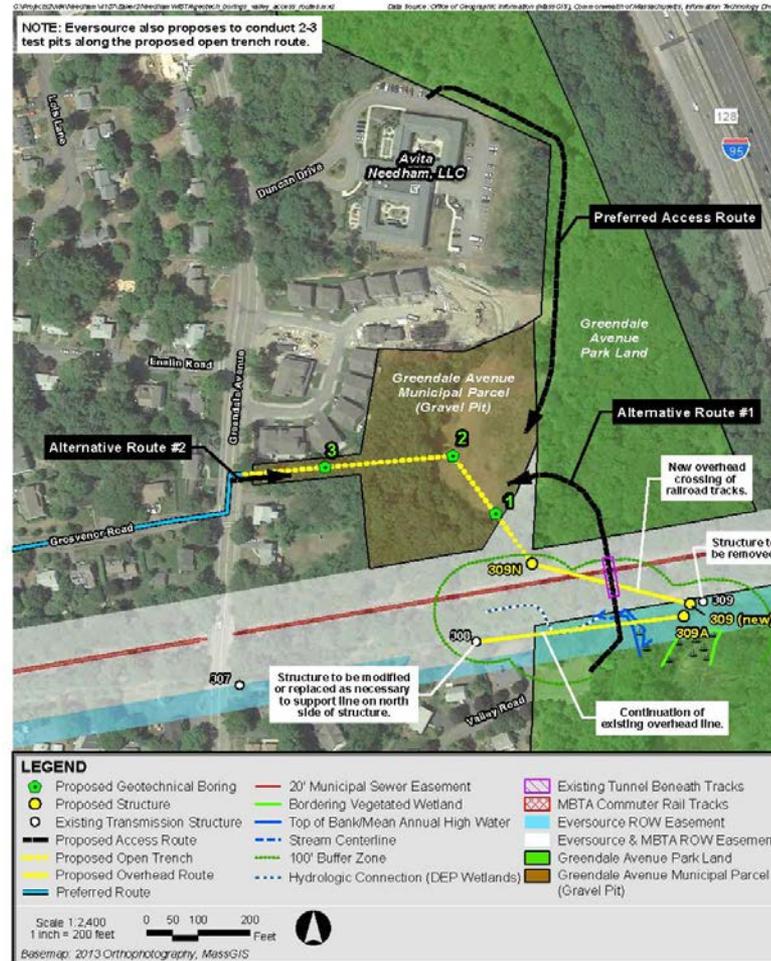
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Overhead to Underground Transition Point at Valley Road (ROUTE VARIATION ONTO VALLEY ROAD)



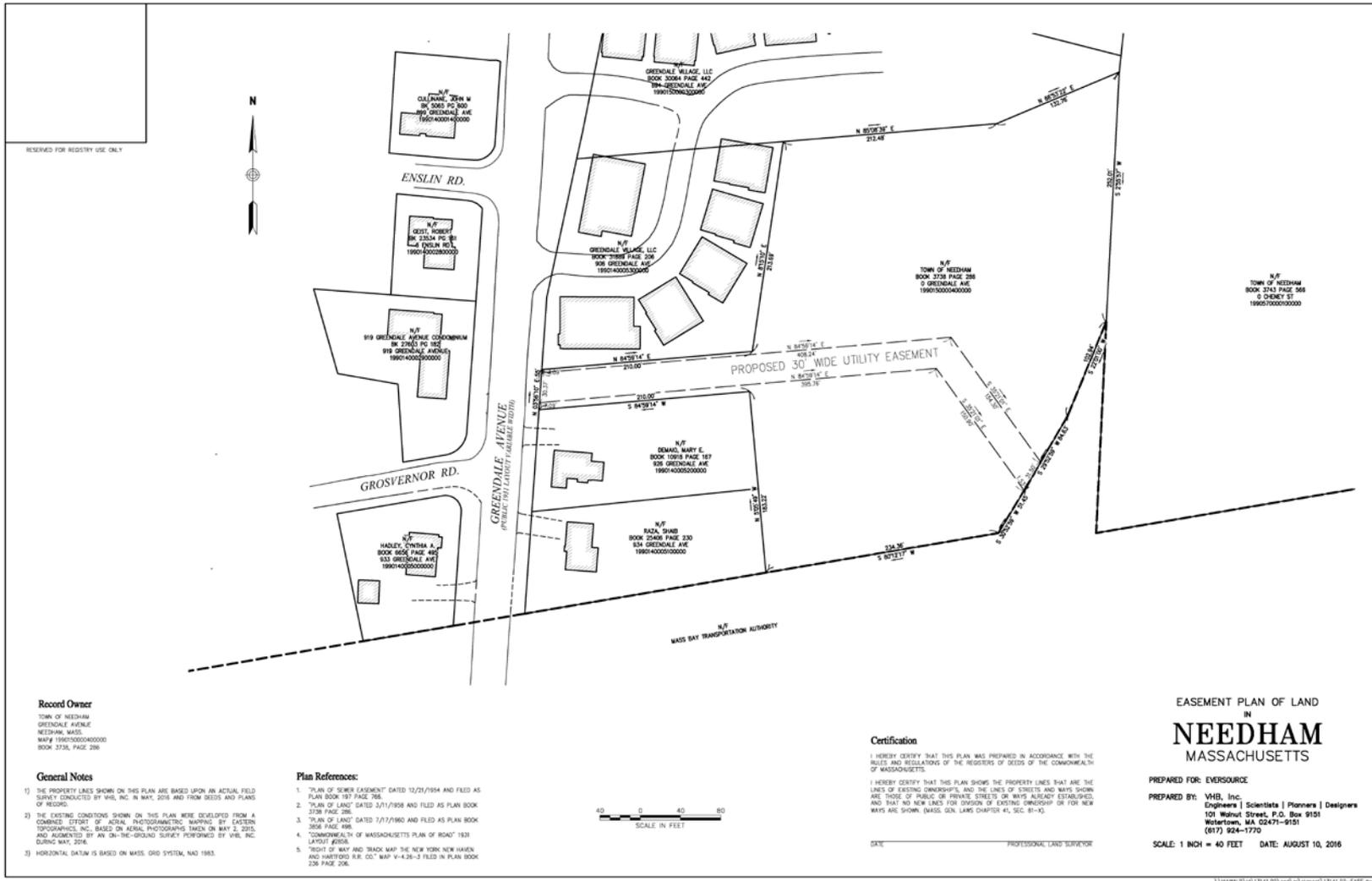
West Roxbury to Needham Reliability Project

Geotechnical Data Collection on Gravel Pit Parcel to Support Proposed UG Design and Route



West Roxbury to Needham Reliability Project

Proposed 30-foot Wide Easement to Install and Maintain UG Transmission Line on Gravel Pit Parcel



Record Owner
 TOWN OF NEEDHAM
 GREENDALE AVENUE
 NEEDHAM, MASS.
 MAP# 1990100000400000
 BOOK 3738, PAGE 288

General Notes

1. THE PROPERTY LINES SHOWN ON THIS PLAN ARE BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY VHB, INC. IN MAY, 2016, AND FROM DEEDS AND PLANS OF RECORD.
2. THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED SETPOINT OF AERIAL PHOTOGRAMMETRIC MAPPING BY EASTERN TOPOGRAPHICS, INC., BASED ON AERIAL PHOTOGRAPHS TAKEN ON MAY 2, 2015, AND ADJUSTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB, INC. DURING MAY, 2016.
3. HORIZONTAL DATUM IS BASED ON MASS. GRID SYSTEM, NAD 1983.

Plan References:

1. "PLAN OF 'SEWER EASEMENT'" DATED 12/21/1994 AND FILED AS PLAN BOOK 3728 PAGE 364.
2. "PLAN OF LAND" DATED 3/11/1998 AND FILED AS PLAN BOOK 3728 PAGE 296.
3. "PLAN OF LAND" DATED 7/17/1960 AND FILED AS PLAN BOOK 3806 PAGE 498.
4. "COMMONWEALTH OF MASSACHUSETTS PLAN OF ROAD" 1933 LAYOUT SERIES.
5. "RIGHT OF WAY AND TRACK MAP THE NEW YORK NEW HAVEN AND HARTFORD R.R. CO." MAP "V-4.28-3" FILED IN PLAN BOOK 238 PAGE 206.

Certification

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTRARS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS.
 I HEREBY CERTIFY THAT THIS PLAN SHOWS THE PROPERTY LINES THAT ARE THE LINES OF EXISTING OWNERSHIP, AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN. (MASS. GEN. LAWS CHAPTER 41, SEC. 81-9.)

DATE: _____ PROFESSIONAL LAND SURVEYOR

EASEMENT PLAN OF LAND
 IN
NEEDHAM
 MASSACHUSETTS

PREPARED FOR: EVERSOURCE
 PREPARED BY: VHB, Inc.
 Engineers | Scientists | Planners | Designers
 101 Walnut Street, P.O. Box 9101
 Woburn, MA 02471-9101
 (817) 924-1770
 SCALE: 1 INCH = 40 FEET DATE: AUGUST 10, 2016

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Approximate Locations of Trees within 30-foot Wide Easement



LEGEND

- Surveyed Trees (40-50)
- Proposed Transition Structure
- Proposed Open Trench
- Proposed Overhead Route
- Greendale Avenue Municipal Parcel
- 30' Permanent Easement
- Eversource & MBTA ROW Easement

Scale 1:960
1 inch = 80 feet

0 40 80 Feet

Basemap: Google Earth (June 6, 2015)

View of Existing Conditions on Gravel Pit Parcel Knoll



PHOTO 1

View of Existing Conditions on Gravel Pit Parcel onto Greendale Avenue

EVERSOURCE
ENERGY



PHOTO 2

- EFSB Petition Filed – **June 15, 2016**
- MEPA ENF Filed – **June 15, 2016**
- MEPA Certificate on ENF Issued – **July 22, 2016**
- Parks and Recreation Commission Formally Voted to Endorse Warrant Article for 30-foot Easement – **August 22, 2016**
- EFSB Public Statement Hearing – **September 27, 2016**
- Permits obtained for geotechnical boring and data collection for OH transmission line structure foundations (work is underway) – **May through August 2016.**
- Town Meeting Vote to Secure Easement – **October 7, 2016**

- Advance design details of OH and UG transmission line segments including permitting & approvals for UG geotechnical data collection work in local streets;
- Develop framework for “Host Community Agreement” in consultation with Town Officials;
- Ongoing outreach with residents and other stakeholders;
- Continue to work through the MEPA EIR and EFSB Petition review processes including ongoing coordination with affected municipalities and other stakeholders; and
- Commence environmental permitting efforts (local, state, federal).

- Assuming receipt of all necessary permits and approvals, construction of the transmission line is anticipated to commence in 2017.
- Construction is anticipated to occur over an 18-month period, and to be completed by the end of 2018.

Proactive Municipal and Community Outreach Throughout Project Duration

Stakeholders

- Municipal officials
- State and federal elected officials and agencies
- Property owners & tenants
- Businesses
- Community Groups

Project Communication for Municipalities

- Briefings & Presentations

Project Communication for the Public

- News Releases/Media Advisories
- Door to door outreach, including door hangers
- Transmission 1-800-Hotline
- Project e-mail
- Customer letters



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