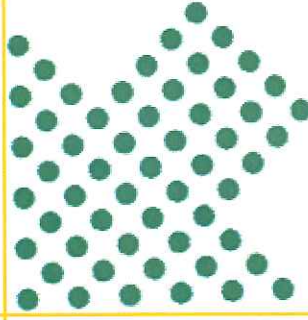


**NEW ENGLAND
EAST  WEST
SOLUTION**

**Interstate Reliability Project
CSC Field Tour**

April 19, 2012



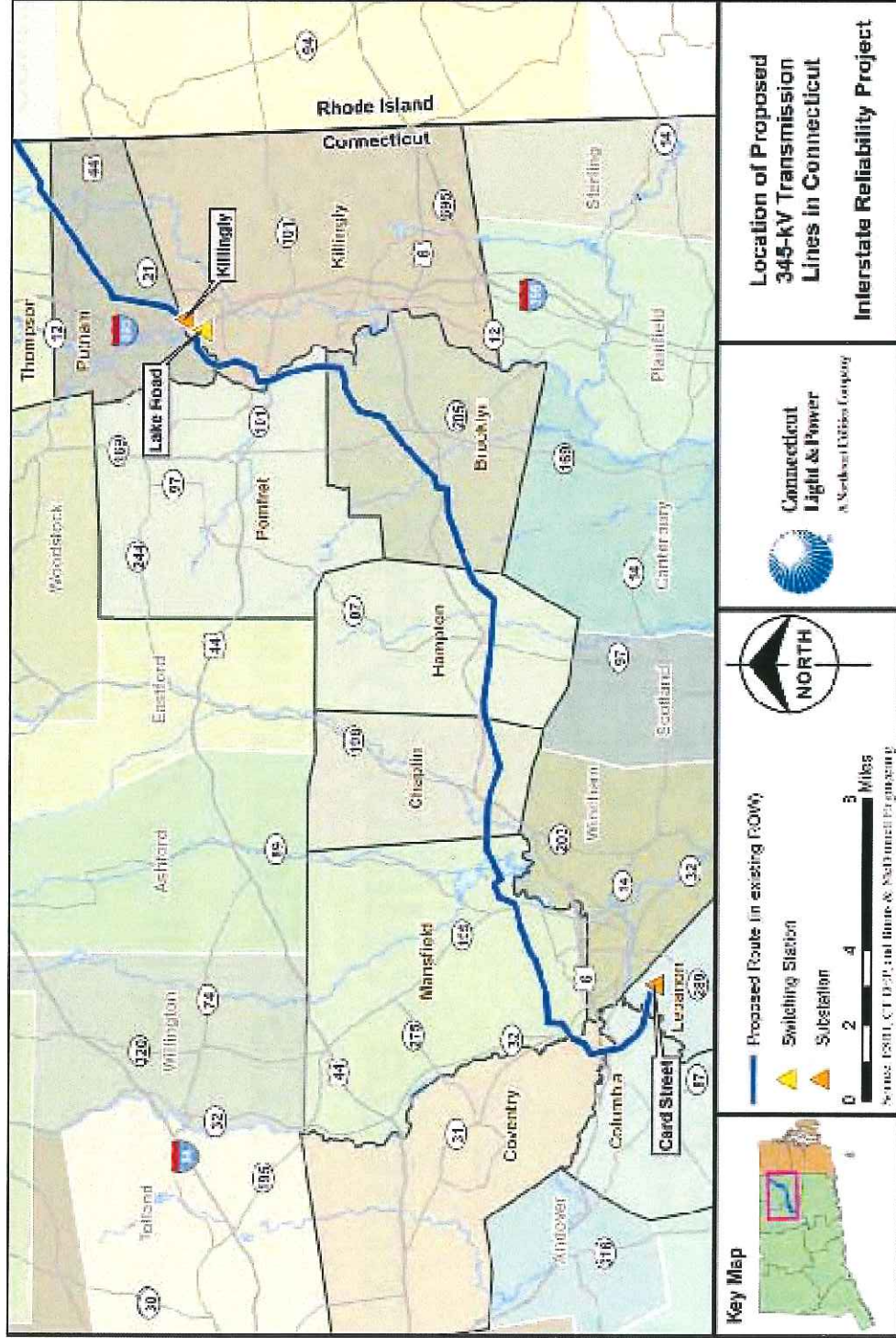
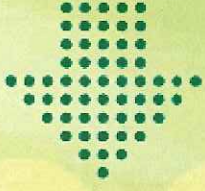
RECEIVED
APR 19 2012

CONNECTICUT
SITING COUNCIL

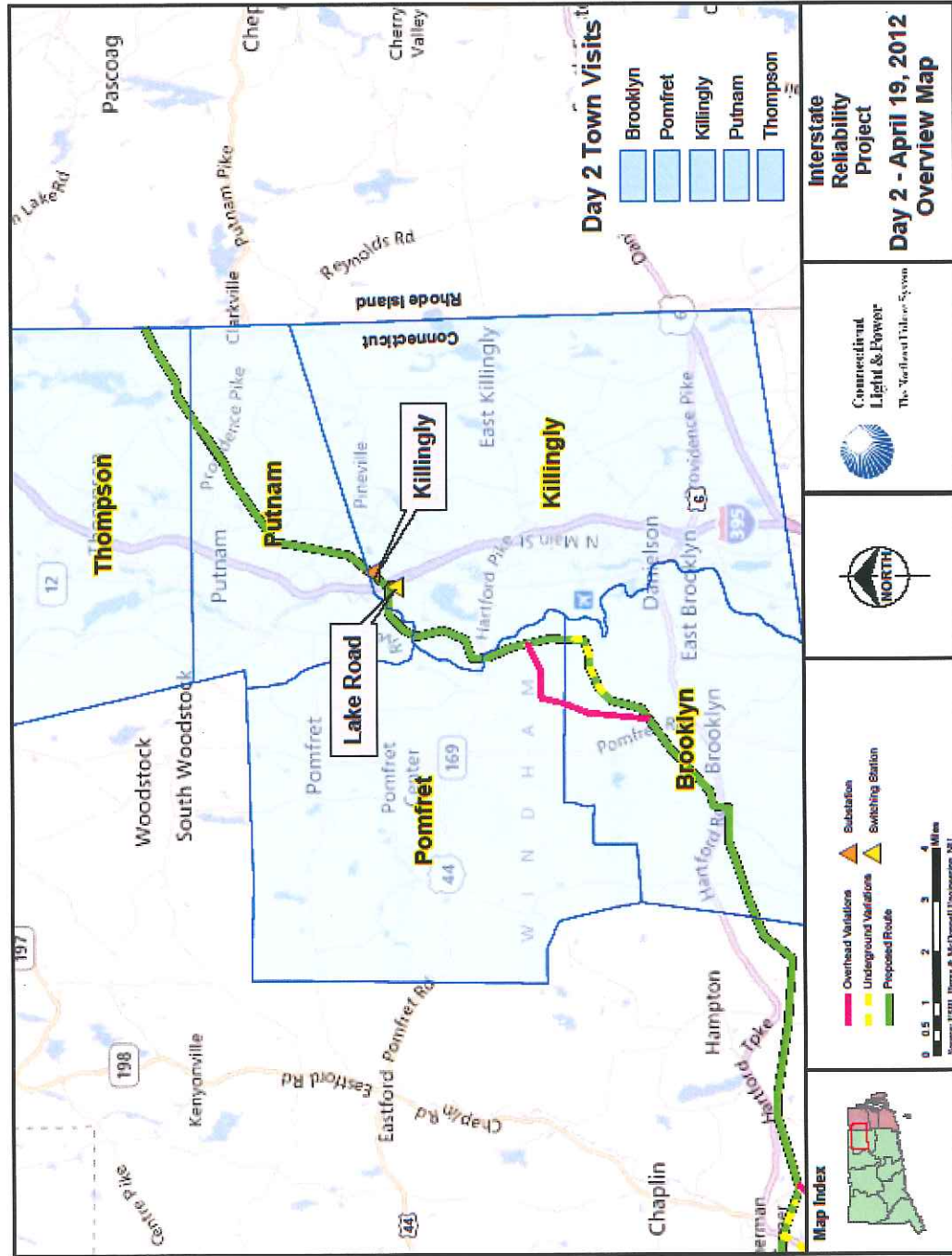
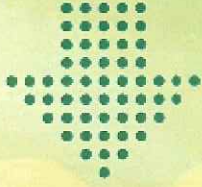


**Connecticut
Light & Power**
A Northeast Utilities Company

Overview – Interstate Reliability Project Route in Connecticut



Tour Overview – April 19, 2012



Tour Agenda – April 19, 2012



Brooklyn

- ▶ 1. Pomfret Road (Rt. 169)
- ▶ 2. Barrett Hill Road
- ▶ 3. Darby Road
- ▶ 4. Church Street / Meadowbrook Drive

Pomfret

- ▶ 5. Killingly Road (Rt. 101)

Killingly

- ▶ 6. Lake Road
- ▶ 7. Lake Road Switching Station
- ▶ 8. I-395
- ▶ 9. Killingly Substation

Putnam

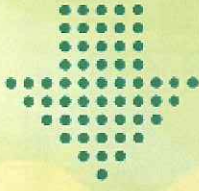
- ▶ 10. Park Road
- ▶ 11. Killingly Avenue (Rt.12)
- ▶ 12. Heritage Road
- ▶ 13. Tourtellotte Road
- ▶ 14. Liberty Highway (Rt. 21)
- ▶ 15. Fox Road
- ▶ 16. Providence Pike (Rt. 44)
- ▶ 17. Elvira Heights / Munyan Road

Thompson

- ▶ 18. Quaddick Town Farm Road / Elmwood Hill Road

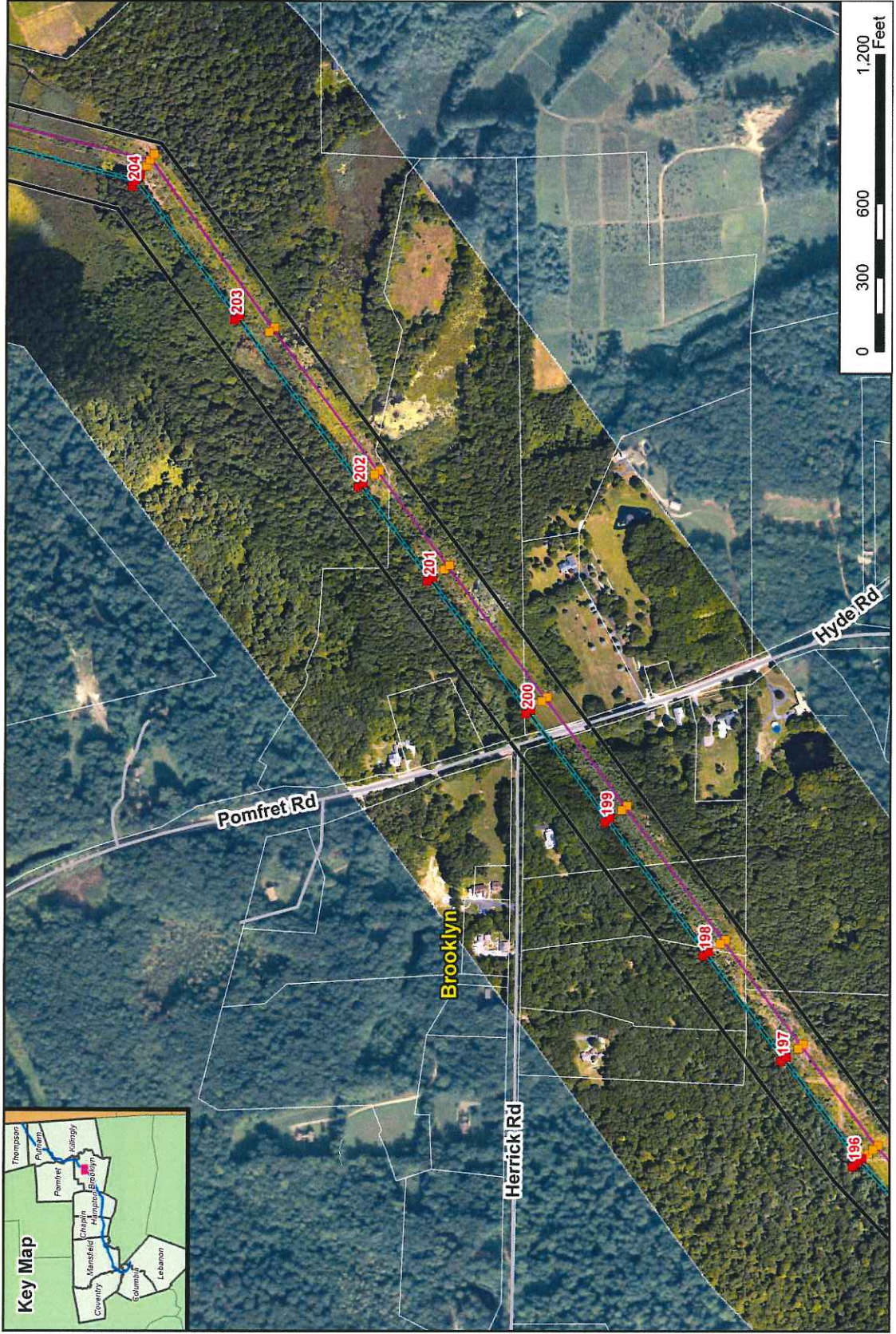
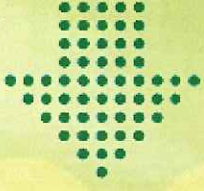
Proceed back to hearing location at 69 South Main Street, Brooklyn.

LEGEND

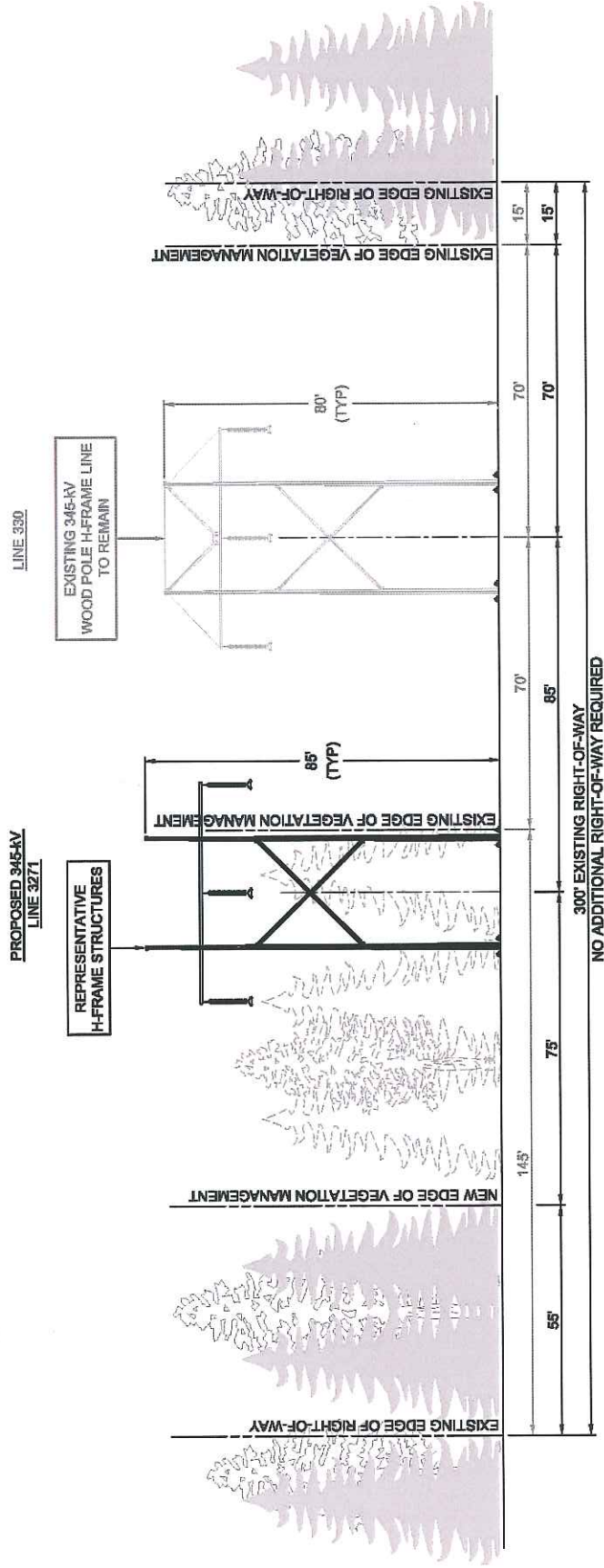


	Right-of-Way (Existing)		Town Boundary
	Right-of-Way (Expanded)		Property Line
	Proposed 345-kV (Centerline)		CL&P Property
	Existing Transmission Line (Centerline)		Potential Transition Station Site
	Existing Structure		Underground Variation
	Proposed Structure		School/Licensed Daycare Facility

1. Pomfret Road (Rt. 169) - Brooklyn

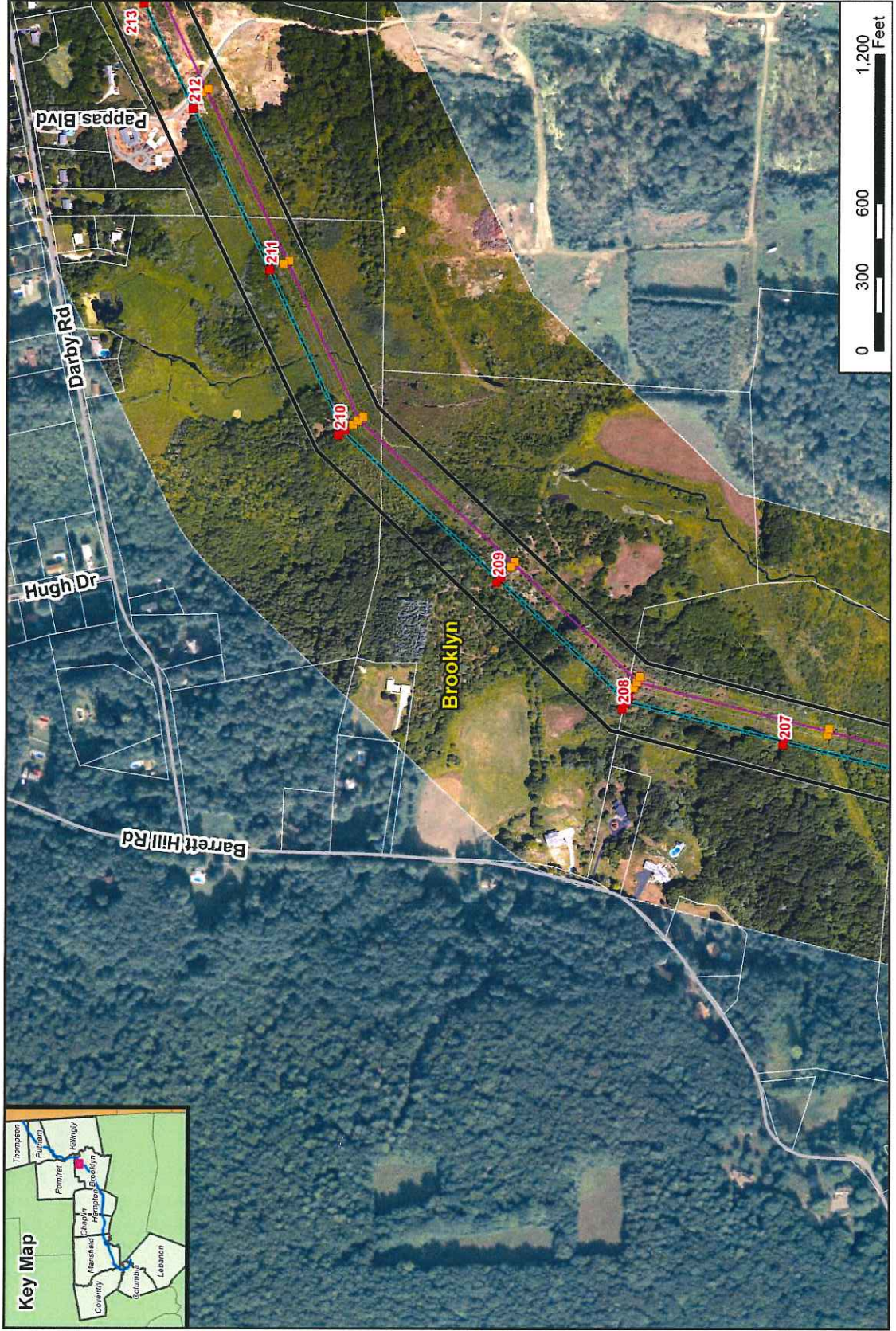
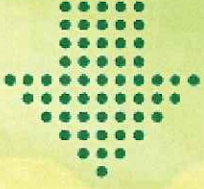


1. Pomfret Road (Rt. 169) – Cross section

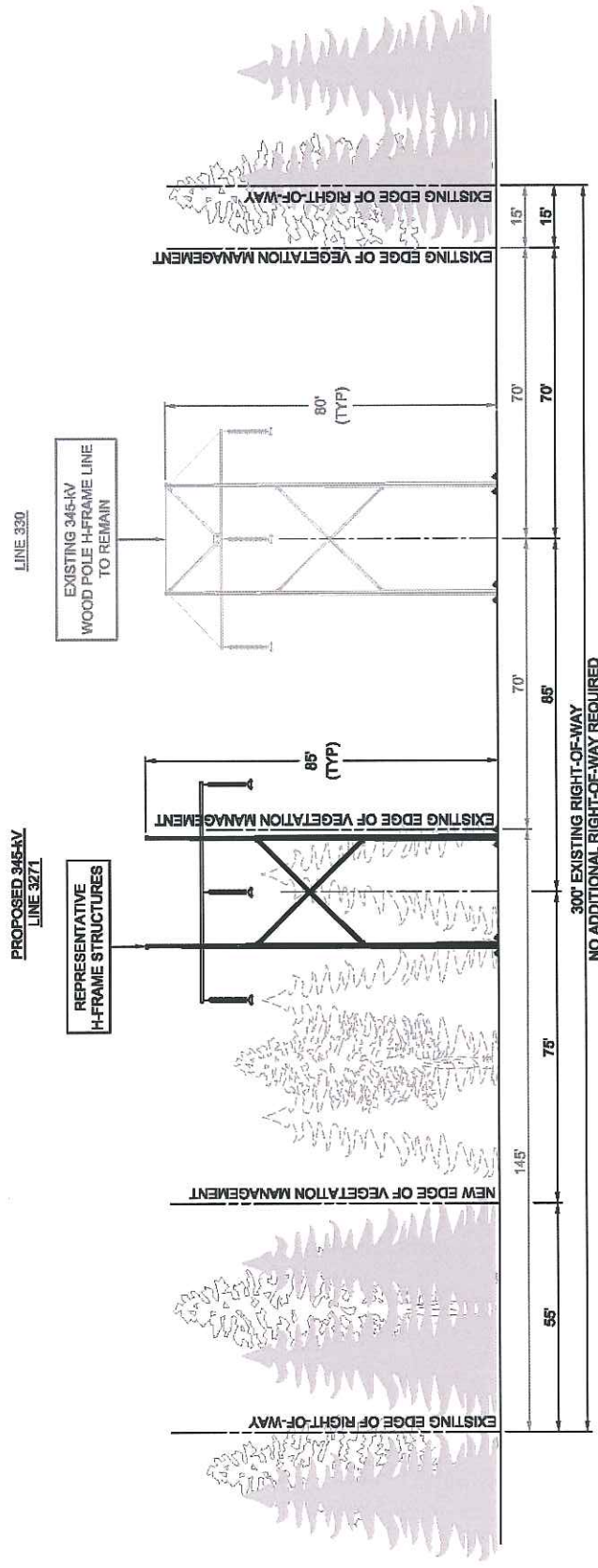
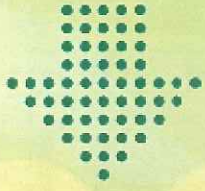


- **Existing Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest, house/yard, agriculture
- **Terrain:** Broad, gentle slopes to steep
- **Existing Right-of-Way Width:** 300 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 140 feet
- **Additional Managed Right-of-Way Width Required:** 90 feet

2. Barrett Hill Road - Brooklyn

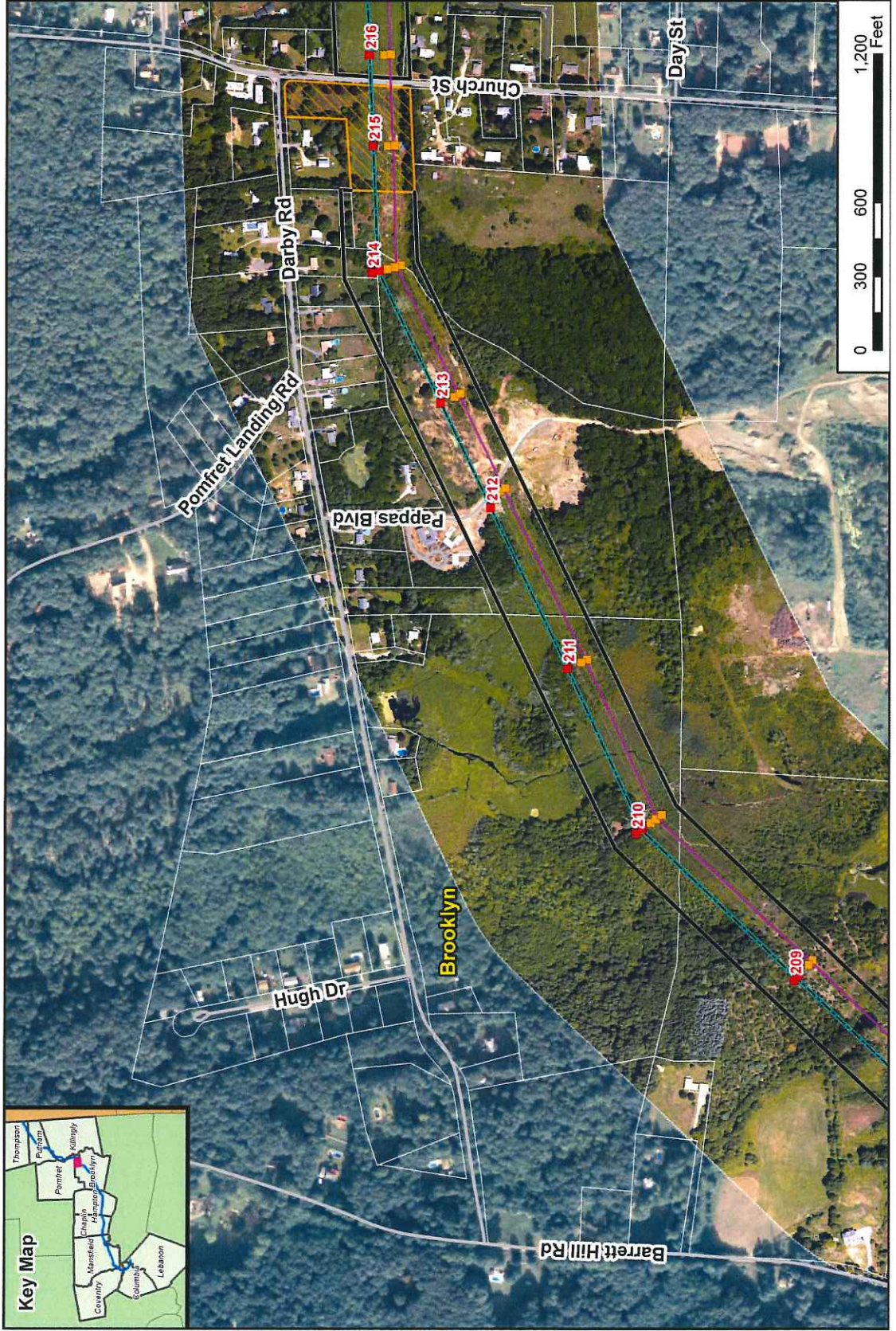
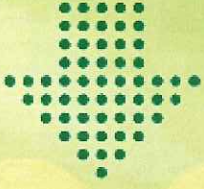


2. Barrett Hill Road – Cross section

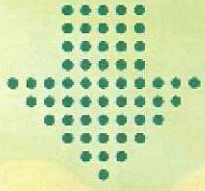


- **Existing Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest
- **Terrain:** Broad, gentle slopes to moderate
- **Existing Right-of-Way Width:** 300 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 140 feet
- **Additional Managed Right-of-Way Width Required:** 90 feet

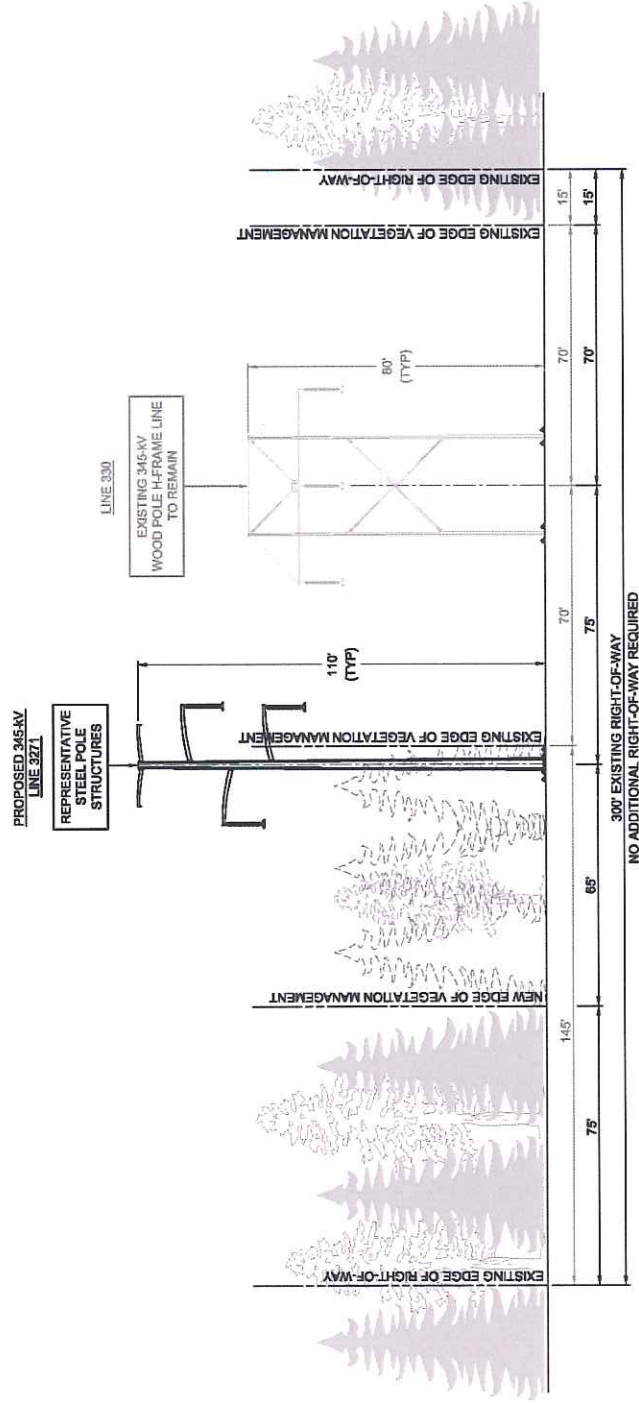
3. Darby Road - Brooklyn



3. Darby Road – Cross section - BMP FOCUS AREA D*

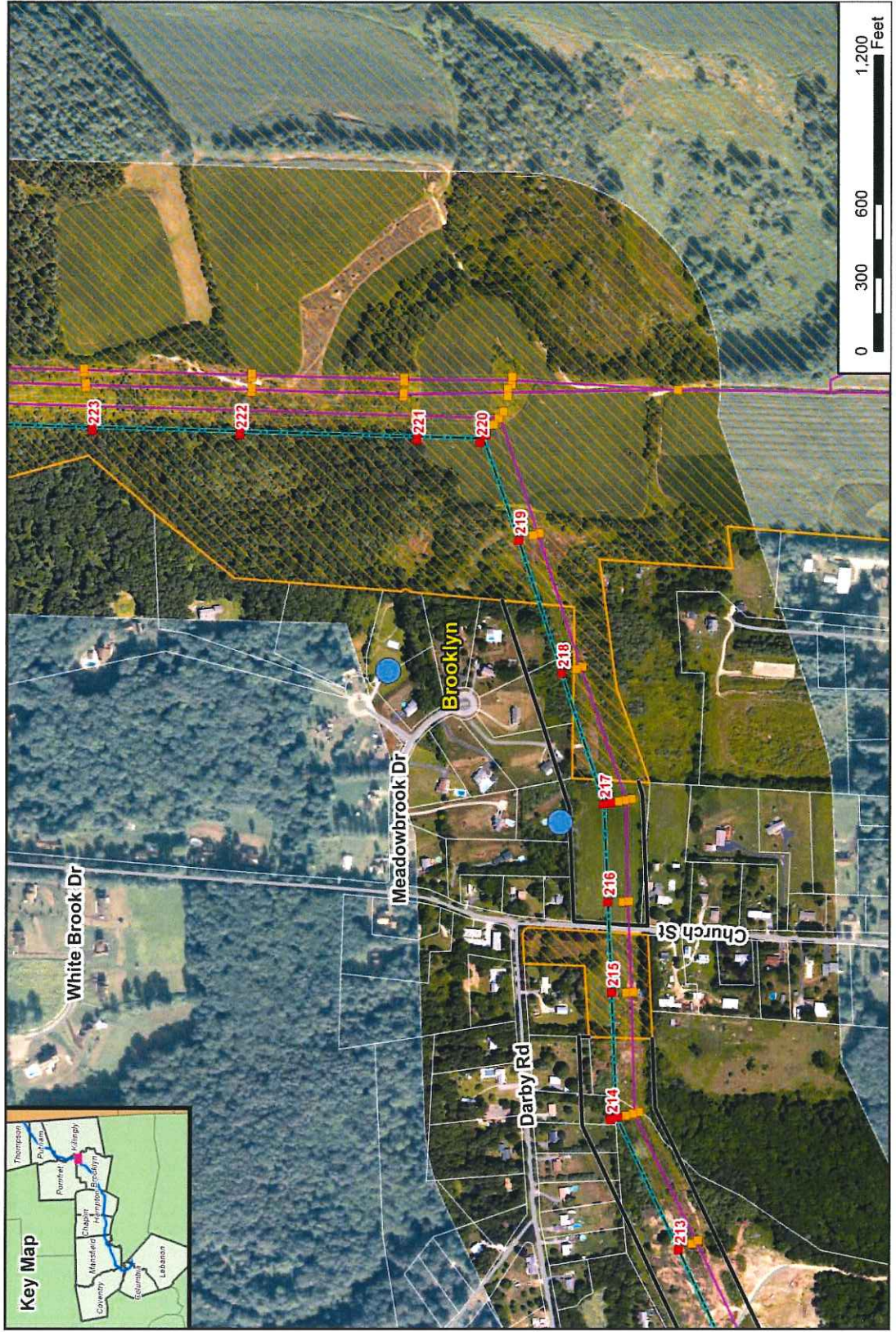
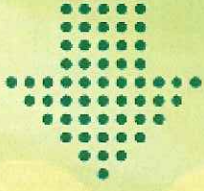


*BMP Focus Area: A section of the Project's Proposed Route under consideration for Electric and Magnetic Field Best Management Practices consistent with the CSC's 2007 guideline (Reference Vol. 1, Section 7, Appendices 7A and 7B of CSC application).

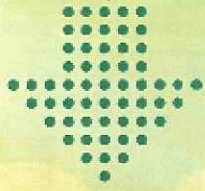


- Existing Right-of-Way Vegetation: Open field-shrub, upland and wetland forest, agricultural, house/yard
- Terrain: Broad, gentle slopes
- Existing Right-of-Way Width: 300 to 360 feet
- Proposed Expansion of Right-of-Way Width: 0 feet
- Existing Managed Right-of-Way Width: 140 to 360 feet
- Additional Managed Right-of-Way Width Required: 70 to 90 feet

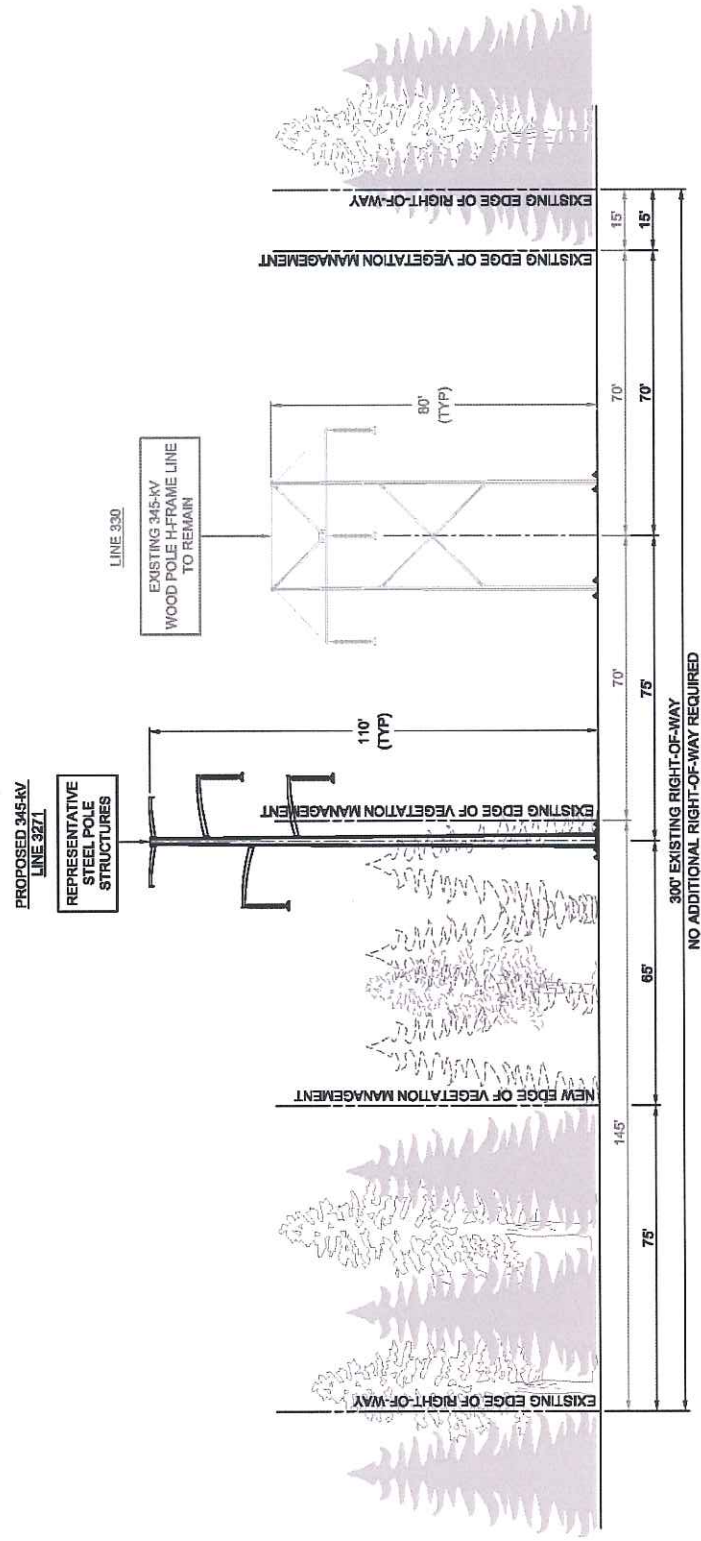
4. Church Street / Meadowbrook Drive – Brooklyn



4. Church Street / Meadowbrook Drive - Cross section - BMP FOCUS AREA D*

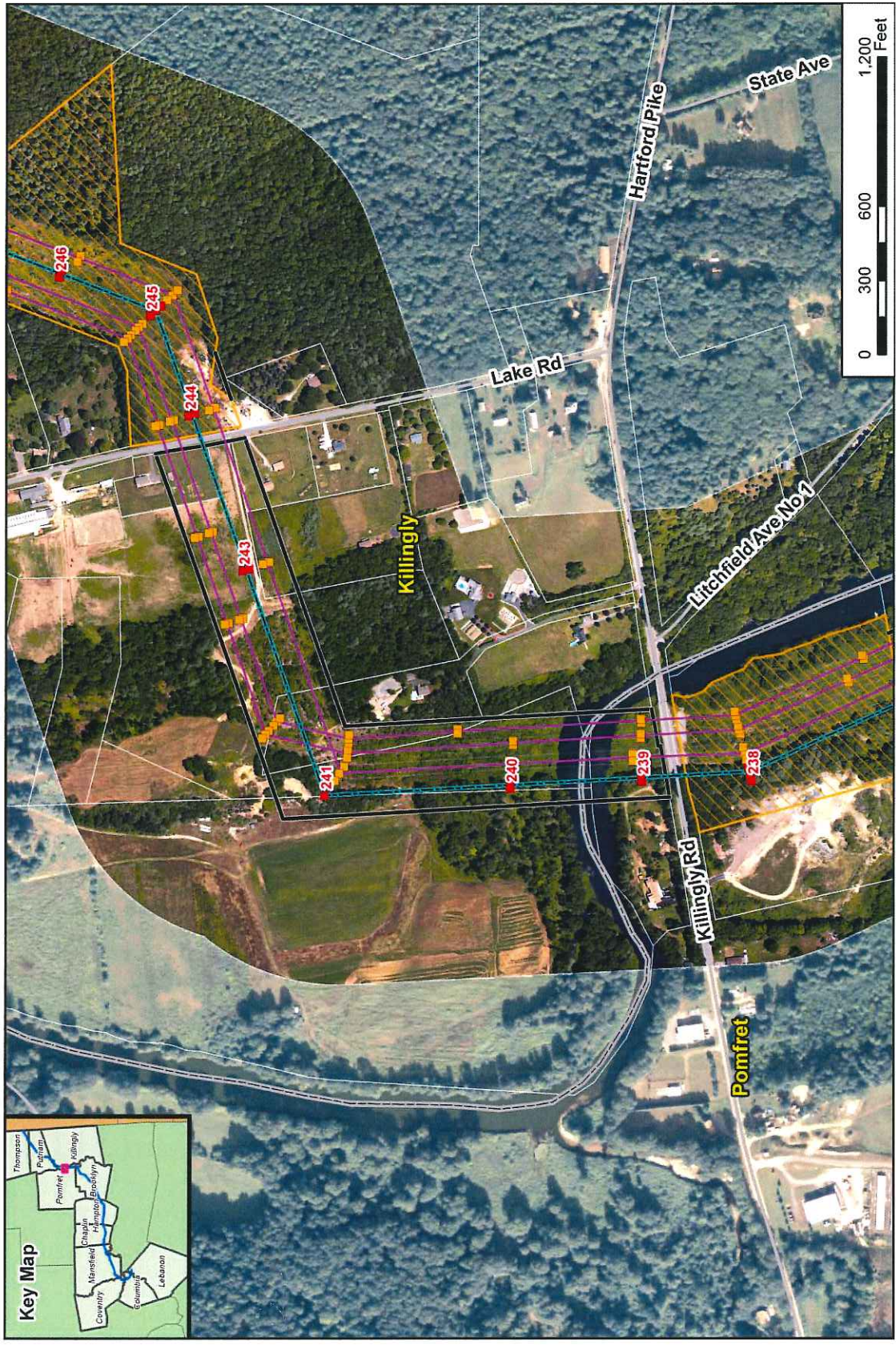
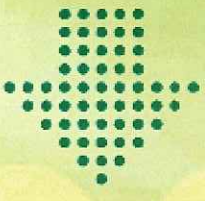


*BMP Focus Area: A section of the Project's Proposed Route under consideration for Electric and Magnetic Field Best Management Practices consistent with the CSC's 2007 guideline (Reference Vol. 1, Section 7, Appendices 7A and 7B of CSC application).

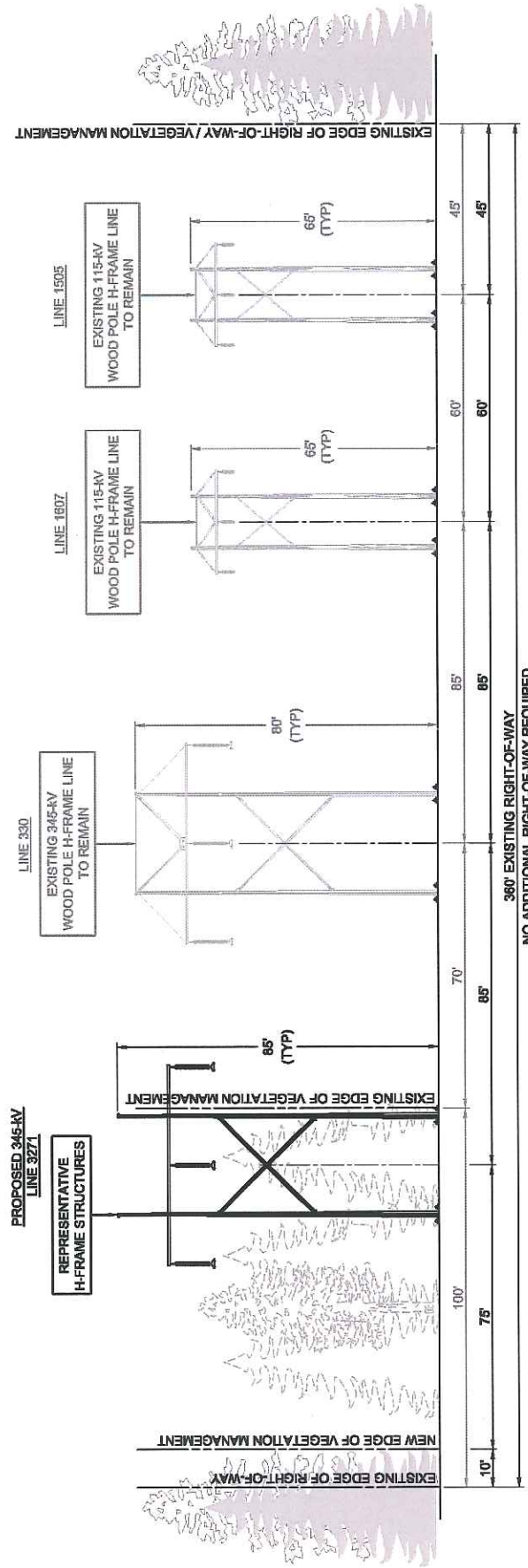


- Existing Right-of-Way Vegetation: Open field-shrub, upland and wetland forest, agricultural, house/yard
- Terrain: Broad, gentle slopes
- Existing Right-of-Way Width: 300 to 360 feet
- Proposed Expansion of Right-of-Way Width: 0 feet
- Existing Managed Right-of-Way Width: 140 to 360 feet
- Additional Managed Right-of-Way Width Required: 70 to 90 feet

5. Killingly Road (Rt. 101) - Pomfret

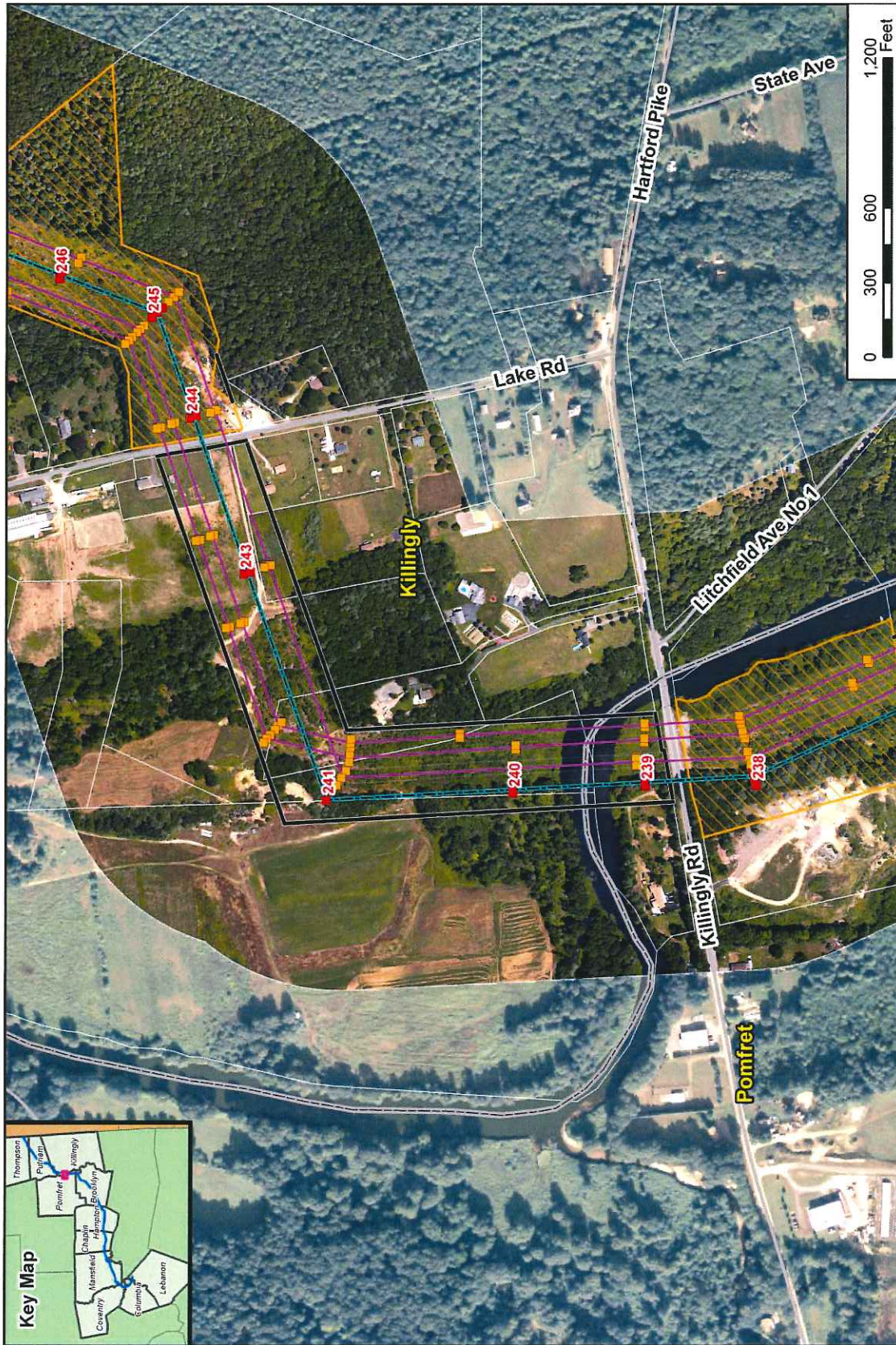
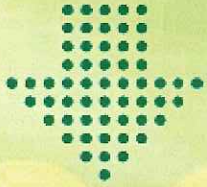


5. Killingly Road (Rt. 101) - Cross section

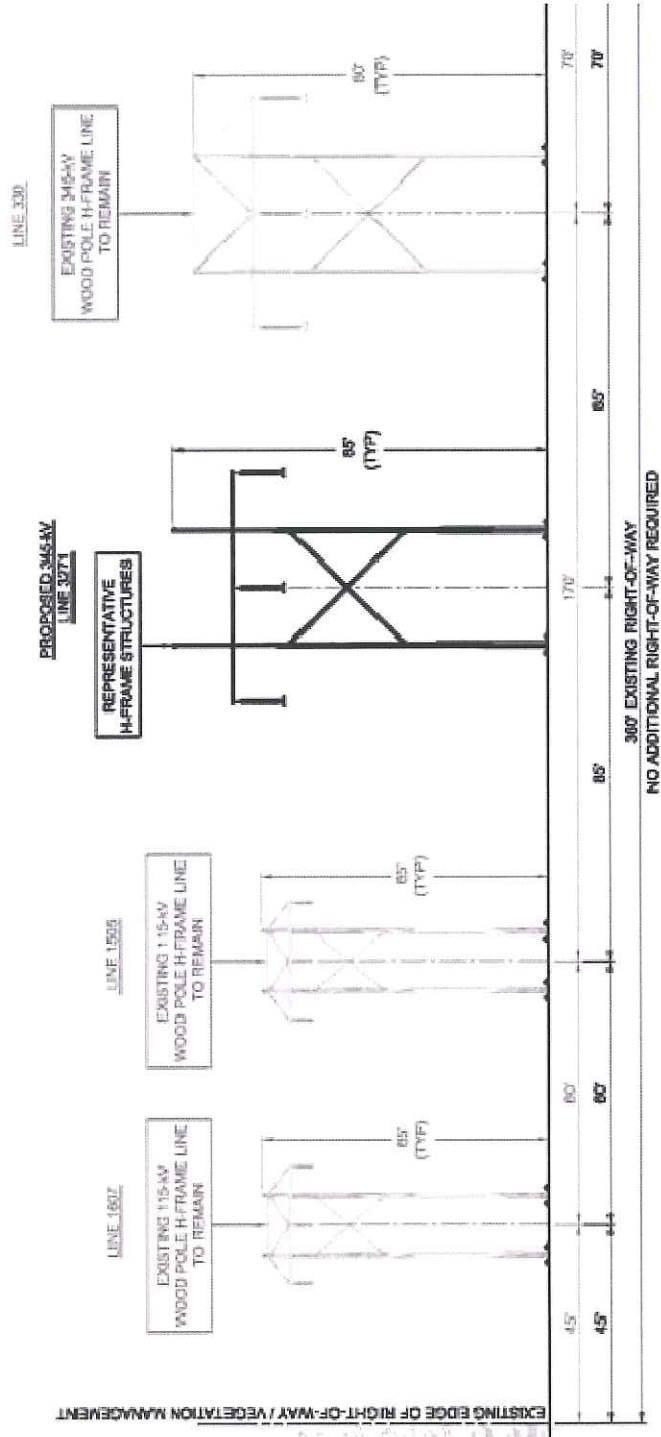
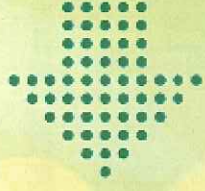


- **Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest, agricultural, house/yard
- **Terrain:** Broad, gentle slopes to moderate
- **Existing Right-of-Way Width:** 360 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 260 to 345 feet
- **Additional Managed Right-of-Way Width Required:** 0 to 90 feet

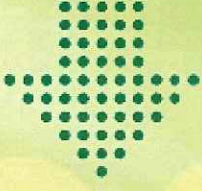
6. Lake Road - Killingly



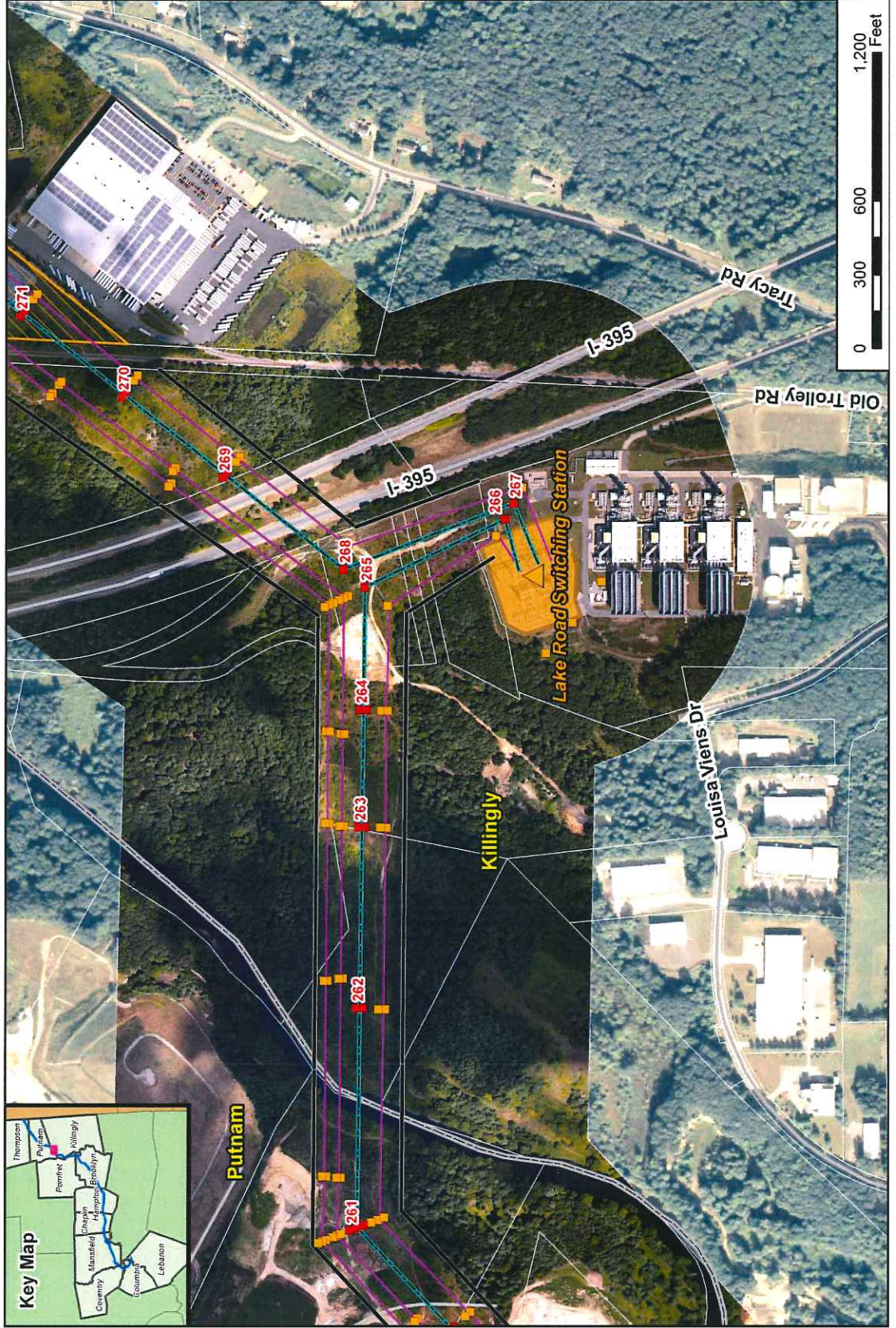
6. Lake Road – Cross section



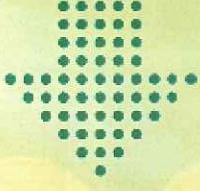
- **Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest, agricultural
- **Terrain:** Moderate slopes
- **Existing Right-of-Way Width:** 360 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 345 feet
- **Additional Managed Right-of-Way Width Required:** 0 feet



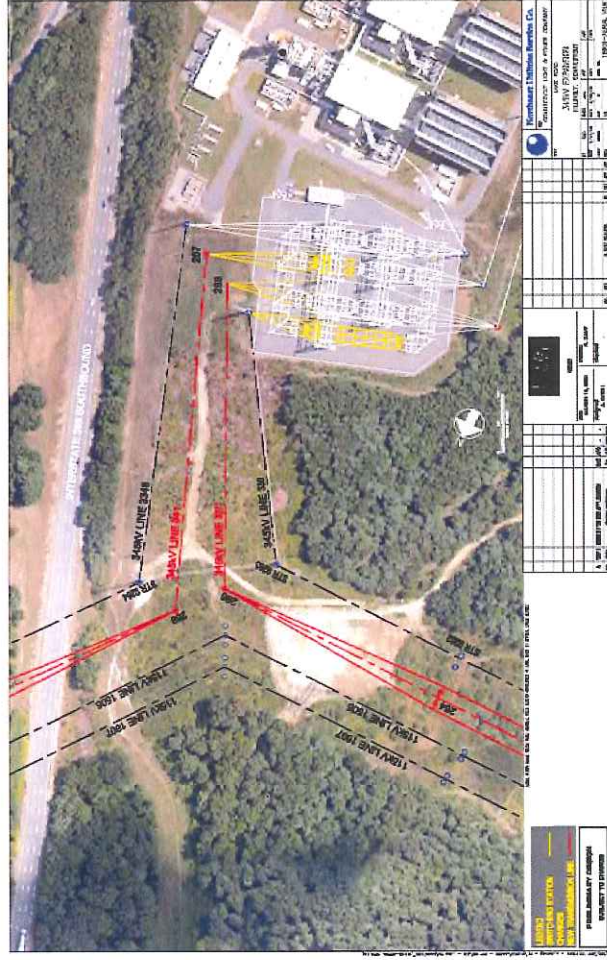
7. Lake Road Switching Station - Killingly



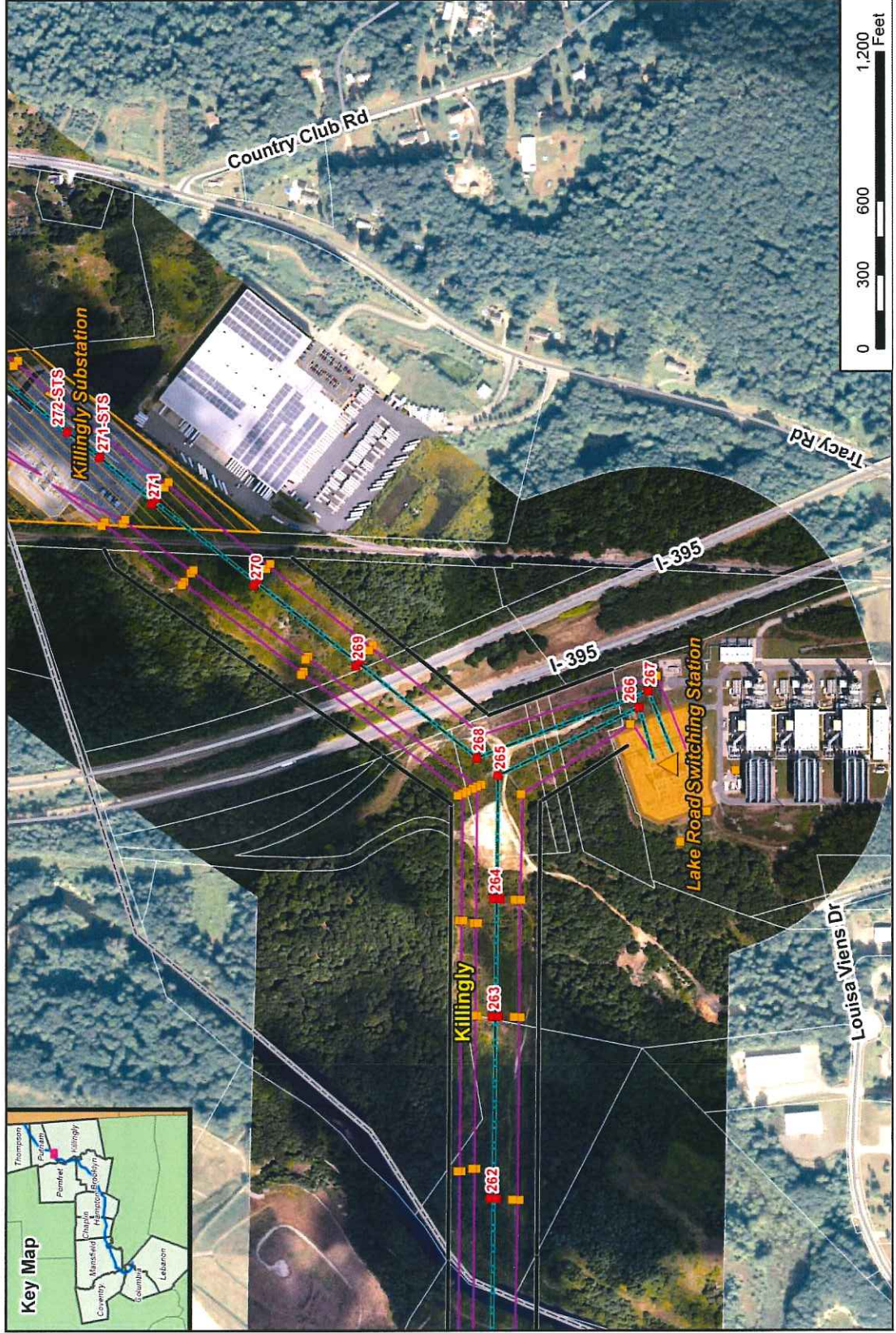
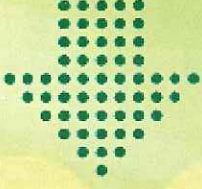
7. Lake Road Switching Station - Cross section



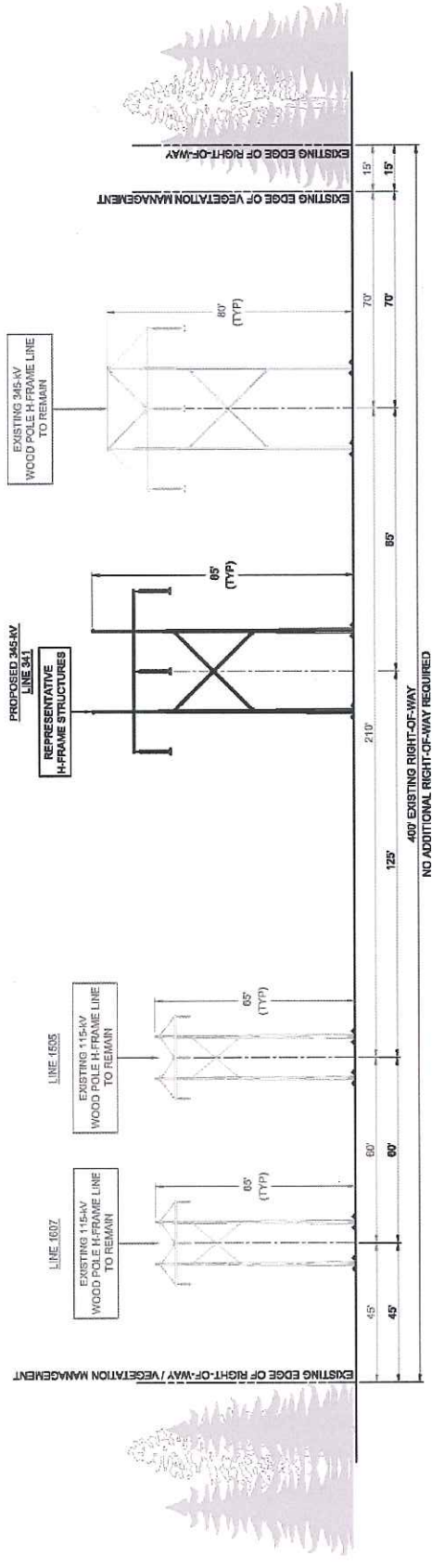
- In northwestern portion of Town of Killingly.
- Interconnects the 330 and 3348 Lines at Lake Road Generating Station.
- Adjacent to Lake Road Generating Station, located on an easement.
- Proposed modifications, illustrated in Volume 7, Exhibit 2, include addition of two new transmission line positions to support the two new 345-kV lines from Lake Road to Card Street (3271 Line) and Lake Road to West Farnum (341 Line) by completing the existing partial switchyard bay and building a new partial bay.
- The existing 330 Line to Card Street Substation would be relocated to the new partial bay. The new Card Street line would be installed in the former 330 Line position with new relays.
- The facilities proposed at the Lake Road Switching Station would be developed within the existing fenced portion of the site. No expansion or modification to the existing fence line would be required.
- The new facilities include the installation of:
 - ▶ Three 345-kV circuit breakers, six 345-kV disconnect switches, 170 feet of bus, six surge arresters, 10 CCVTs, four PTs, and two wave traps.
 - ▶ Install new protection and control equipment within the existing relay/control enclosure



8. I-395 - Killingly

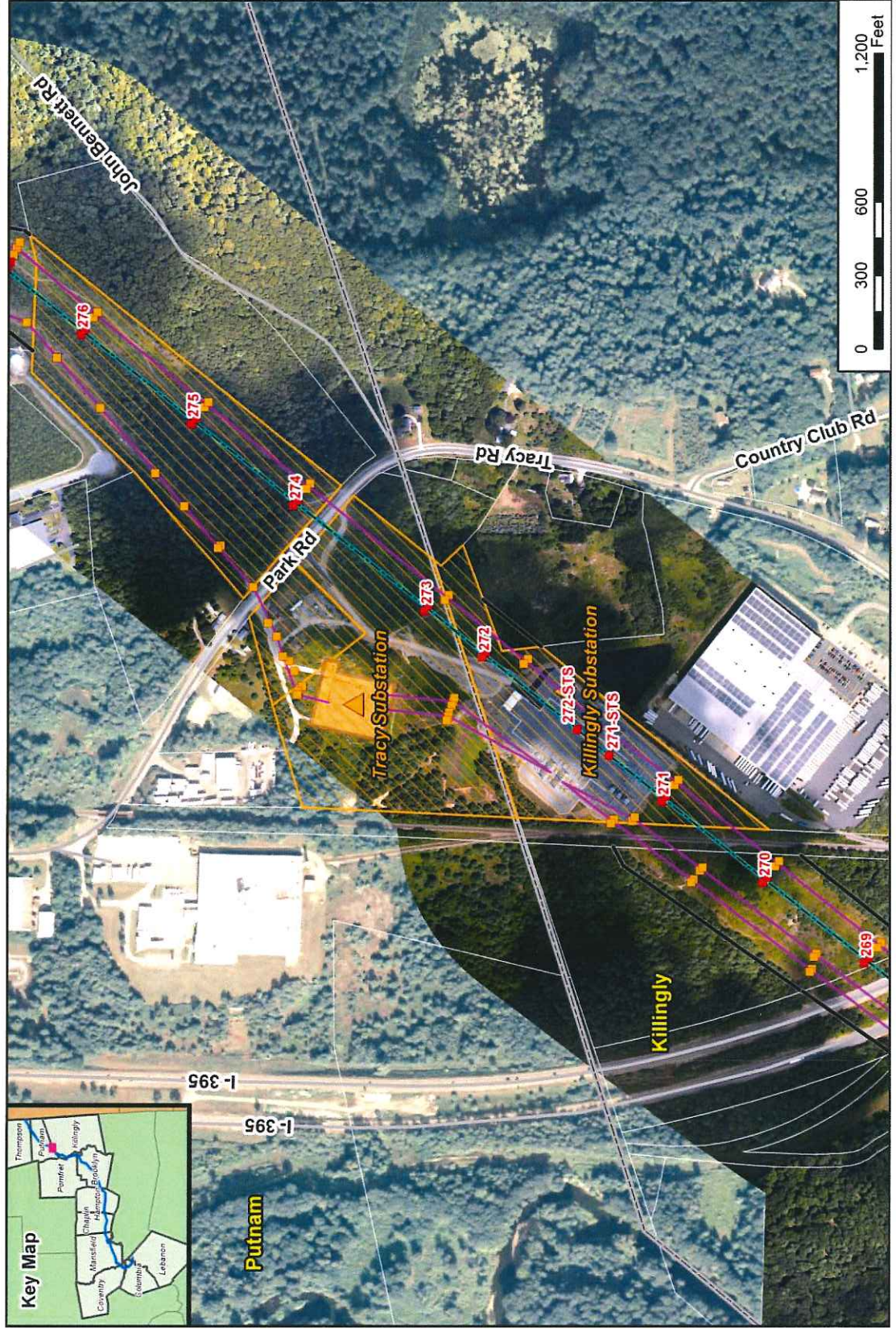


8. I-395 – Cross section

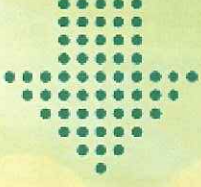


- **Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest
- **Terrain:** Broad, gentle slopes to steep
- **Existing Right-of-Way Width:** 250 to 385 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 250 to 400 feet
- **Additional Managed Right-of-Way Width Required:** 0 feet

9. Killingly Substation - Killingly

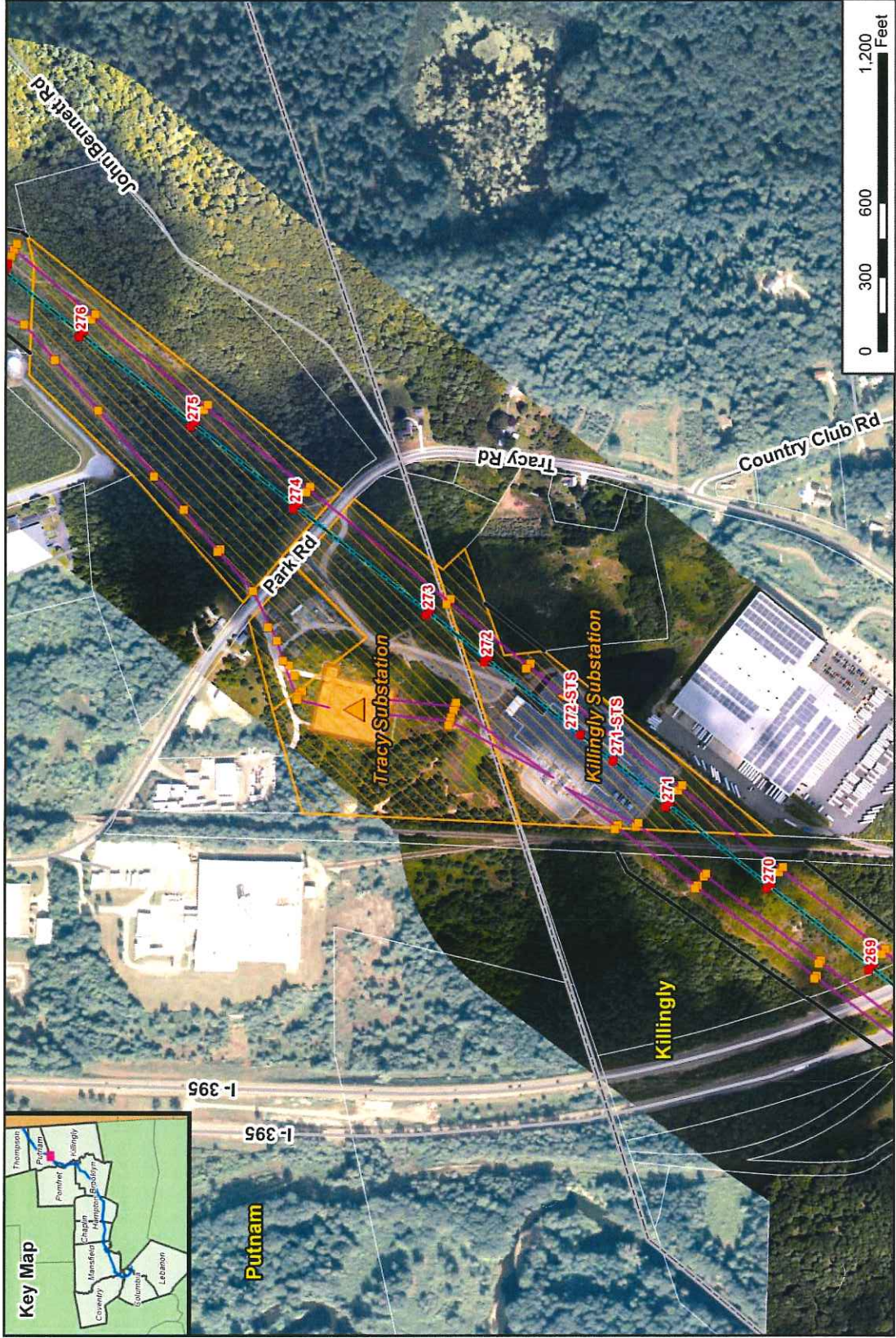


9. Killingly Substation - Cross section

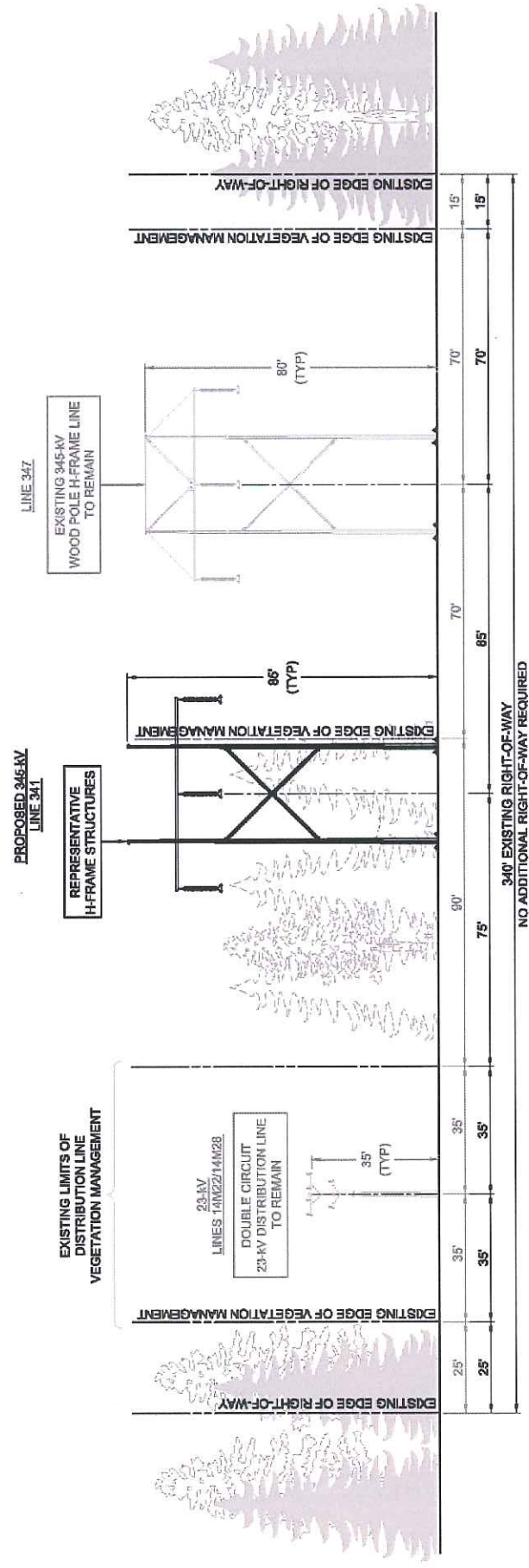
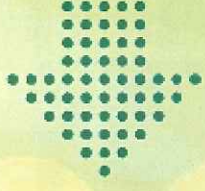


- Northern portion of Town of Killingly, northeast of Lake Road Switching Station
- Interconnects the 3348 and 347 Lines with an autotransformer that supplies a 115-kV switchyard, and from there, four 115-kV circuits.
- Substation is situated on CL&P-owned land.
- The new 345-kV transmission line (i.e., the 341 Line) from Lake Road Switching Station to the R.I. border would traverse through Killingly Substation, but would not electrically connect to it.
- CL&P proposes to install two new 345-kV transmission line terminal structures at the substation.
- Structures approximately 110 feet high and similar in appearance to the two existing line termination structures.
- New 345-kV line conductors would span over the substation, between these two new line terminal structures. Volume 7 includes drawings (refer to Exhibit 3) and plans of the proposed substation modifications.
- New facilities at Substation planned for location within existing fenced substation area. No expansion or modification to existing fence line required.

10. Park Road - Putnam



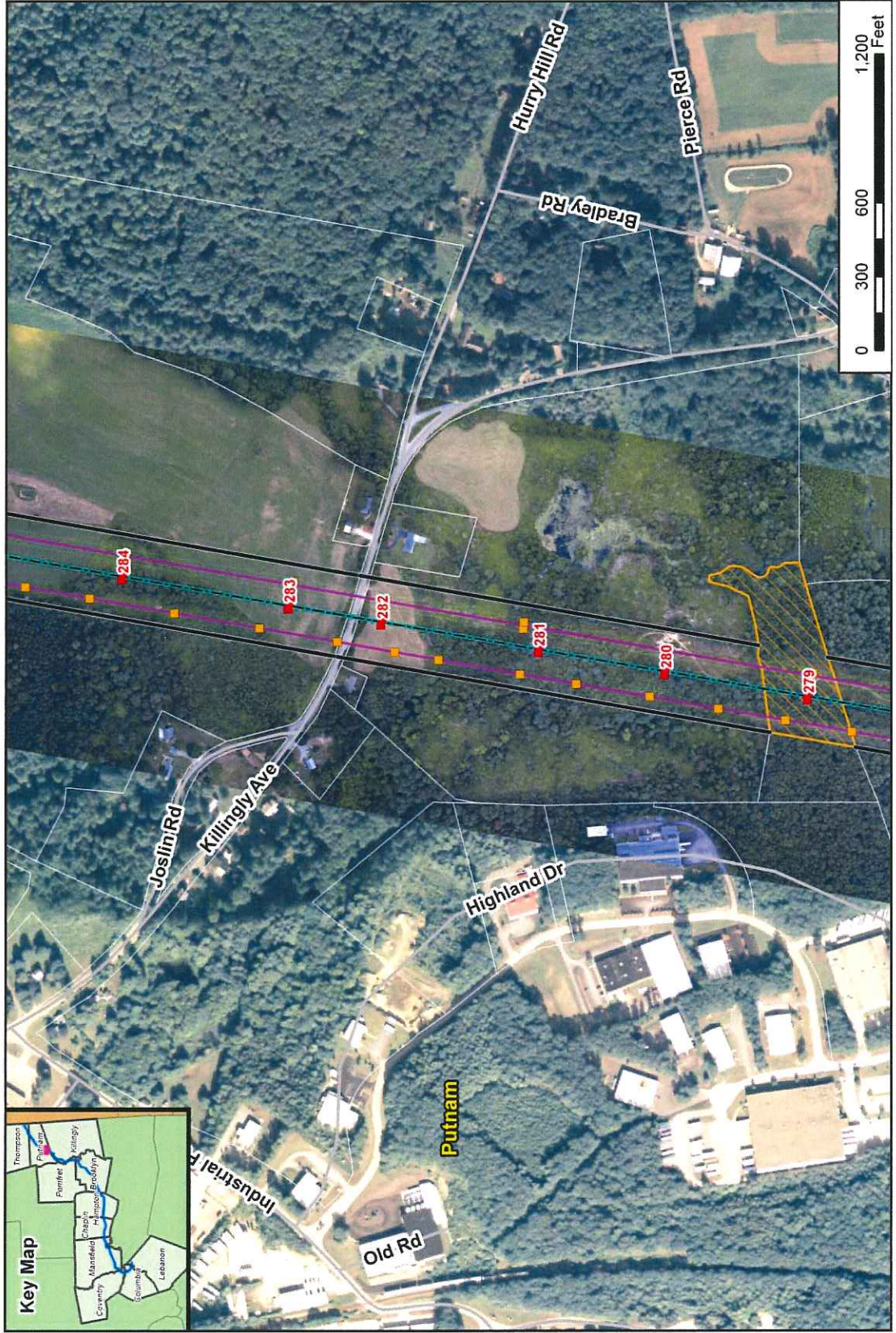
10. Park Road – Cross section

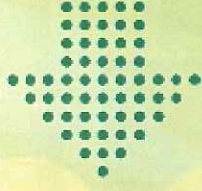


- Right-of-Way Vegetation: Open field-shrub, upland and wetland forest
- Terrain: Moderate slopes
- Existing Right-of-Way Width: 340 feet
- Proposed Expansion of Right-of-Way Width: 0 feet
- Existing Managed Right-of-Way Width: 210 feet
- Additional Managed Right-of-Way Width Required: 90 feet

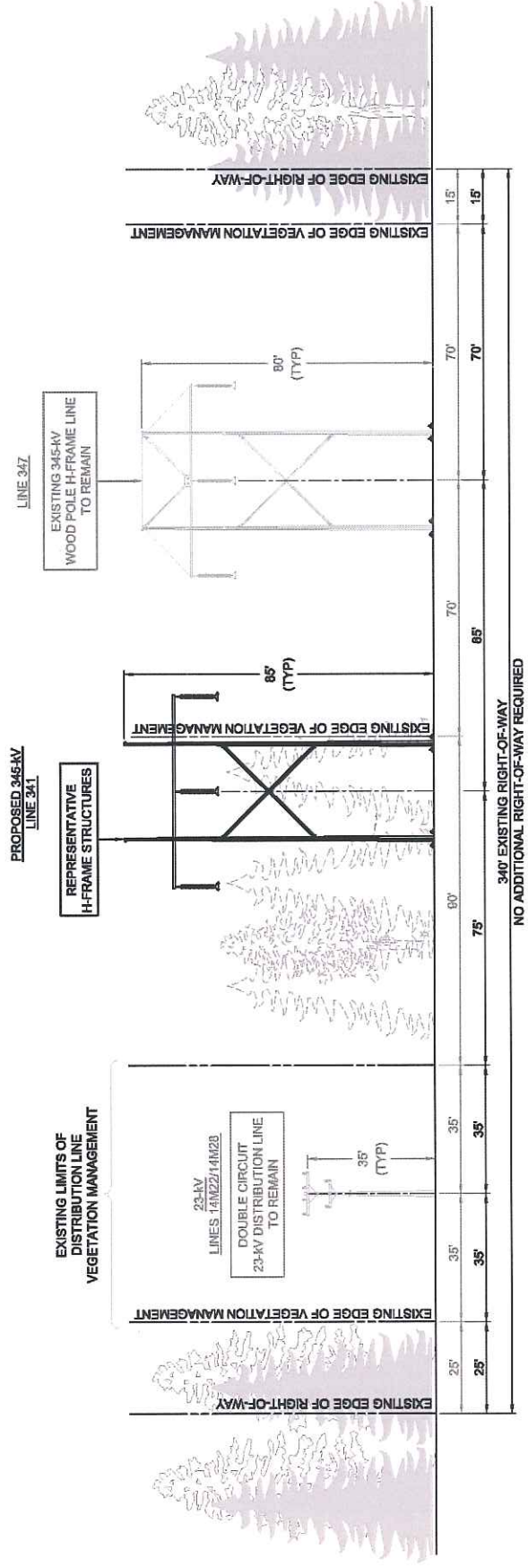


11. Killingly Avenue (Rt. 12) - Putnam



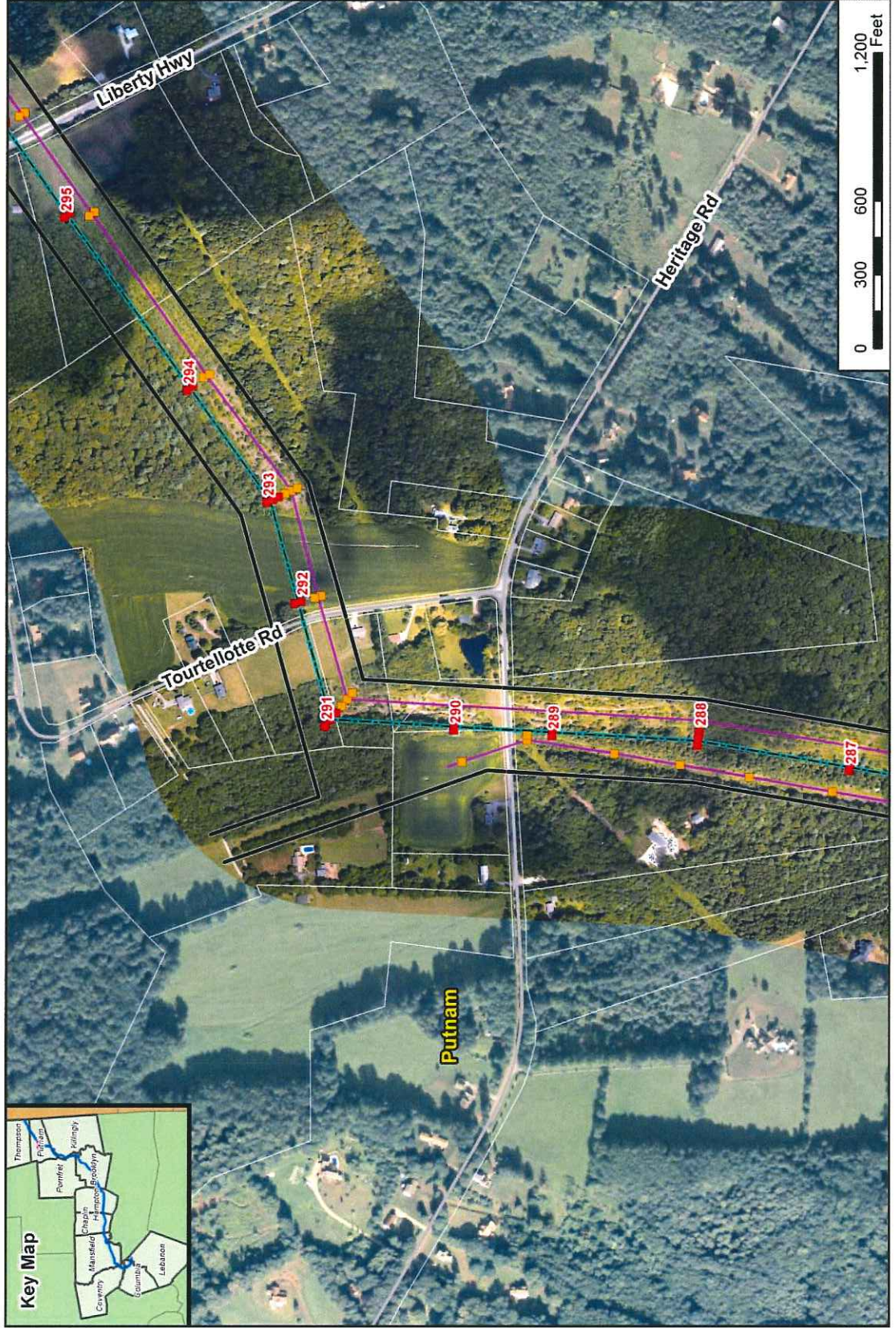
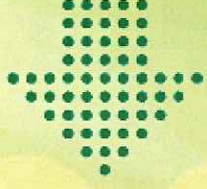


11. Killingly Avenue (Rt. 12) – Cross section

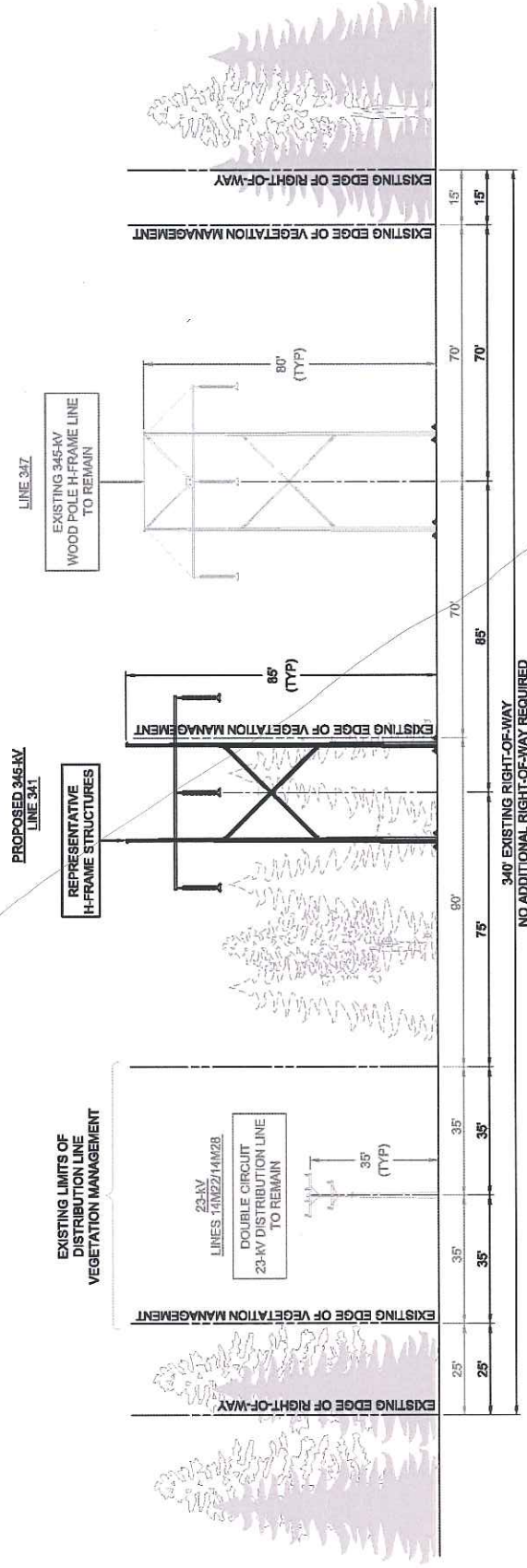


- **Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest, agricultural
- **Terrain:** Moderate slopes to broad floodplain
- **Existing Right-of-Way Width:** 340 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 210 to 340 feet
- **Additional Managed Right-of-Way Width Required:** 0 to 90 feet

12. Heritage Road - Putnam

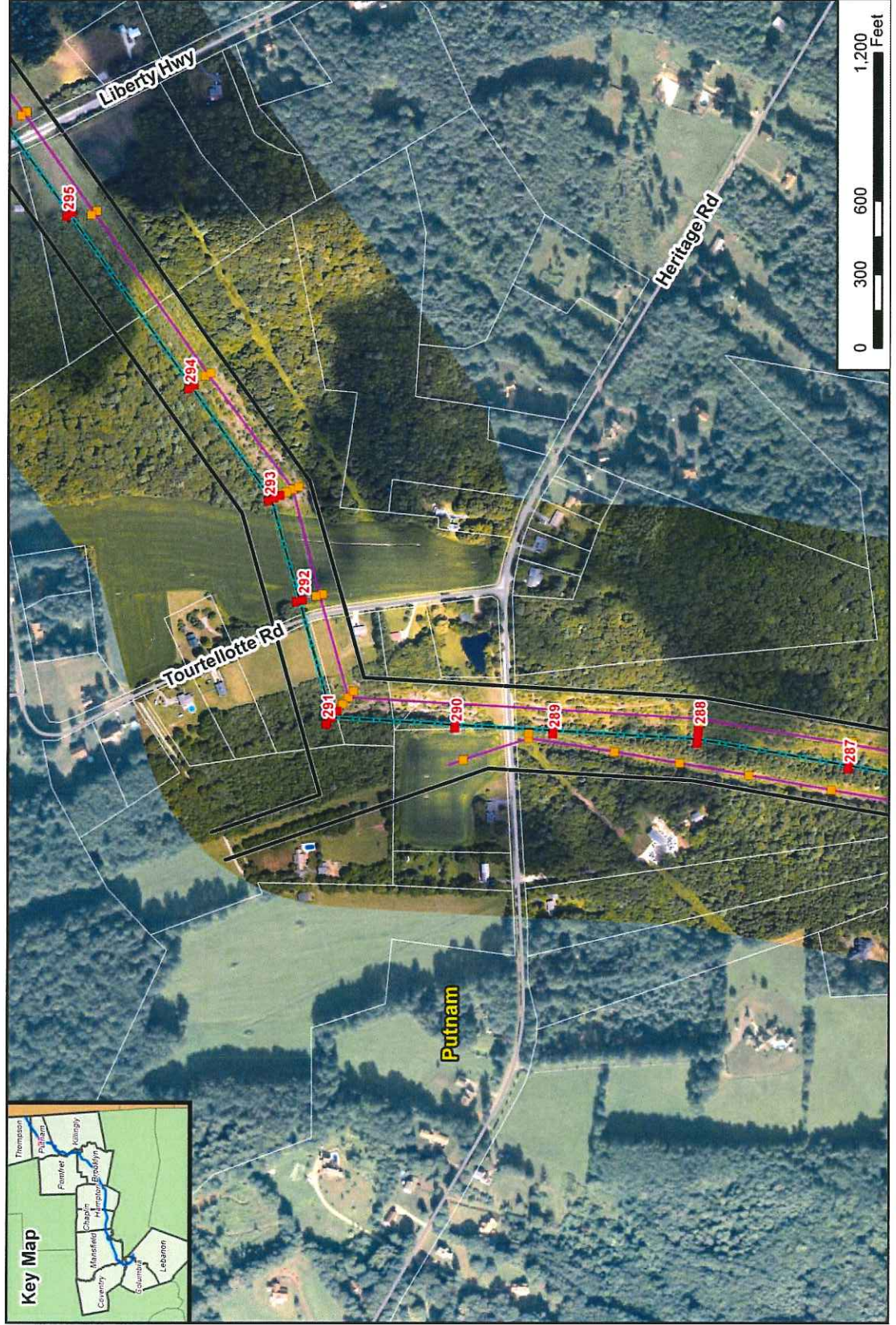


12. Heritage Road – Cross section

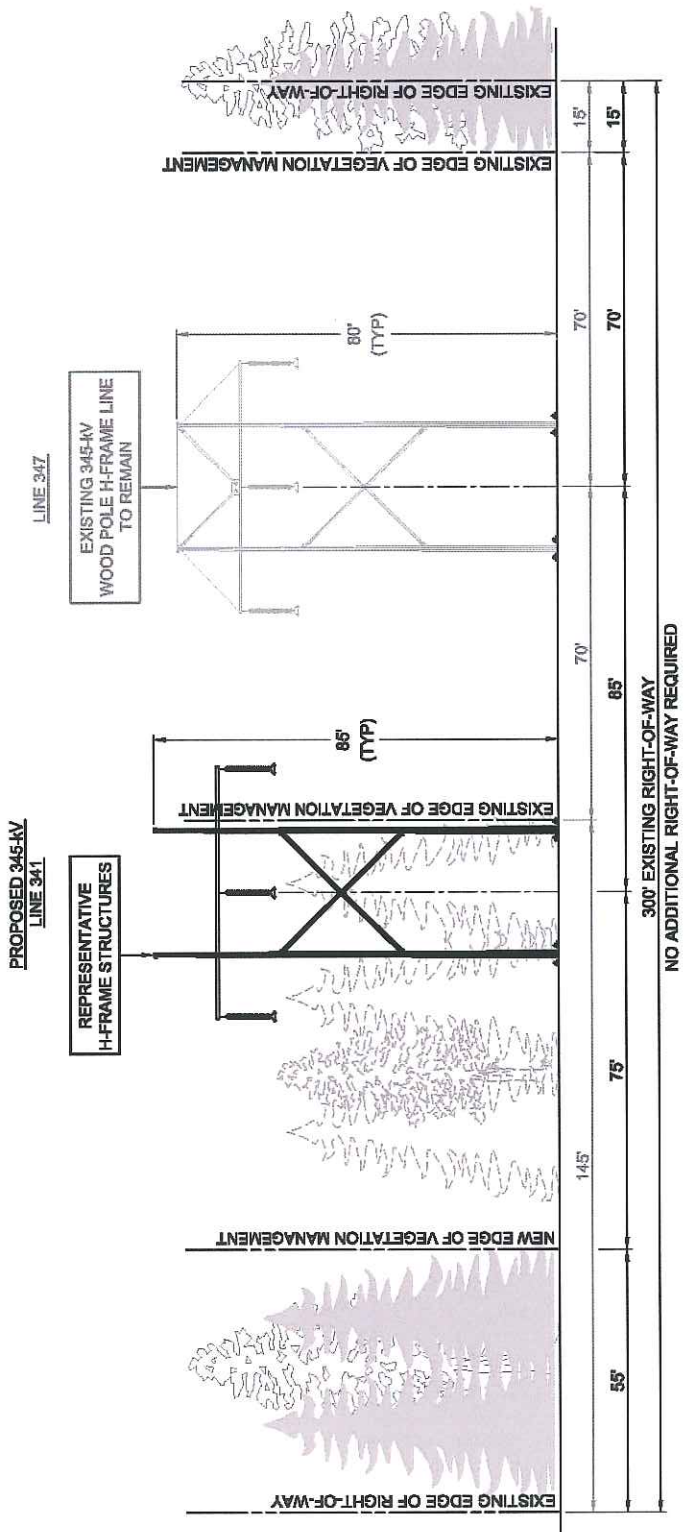
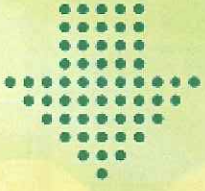


- **Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest, agricultural, house/yard
- **Terrain:** Broad, gentle slopes
- **Existing Right-of-Way Width:** 340 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 210 to 340 feet
- **Additional Managed Right-of-Way Width Required:** 0 to 90 feet

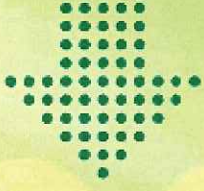
13. Tourtellotte Road - Putnam



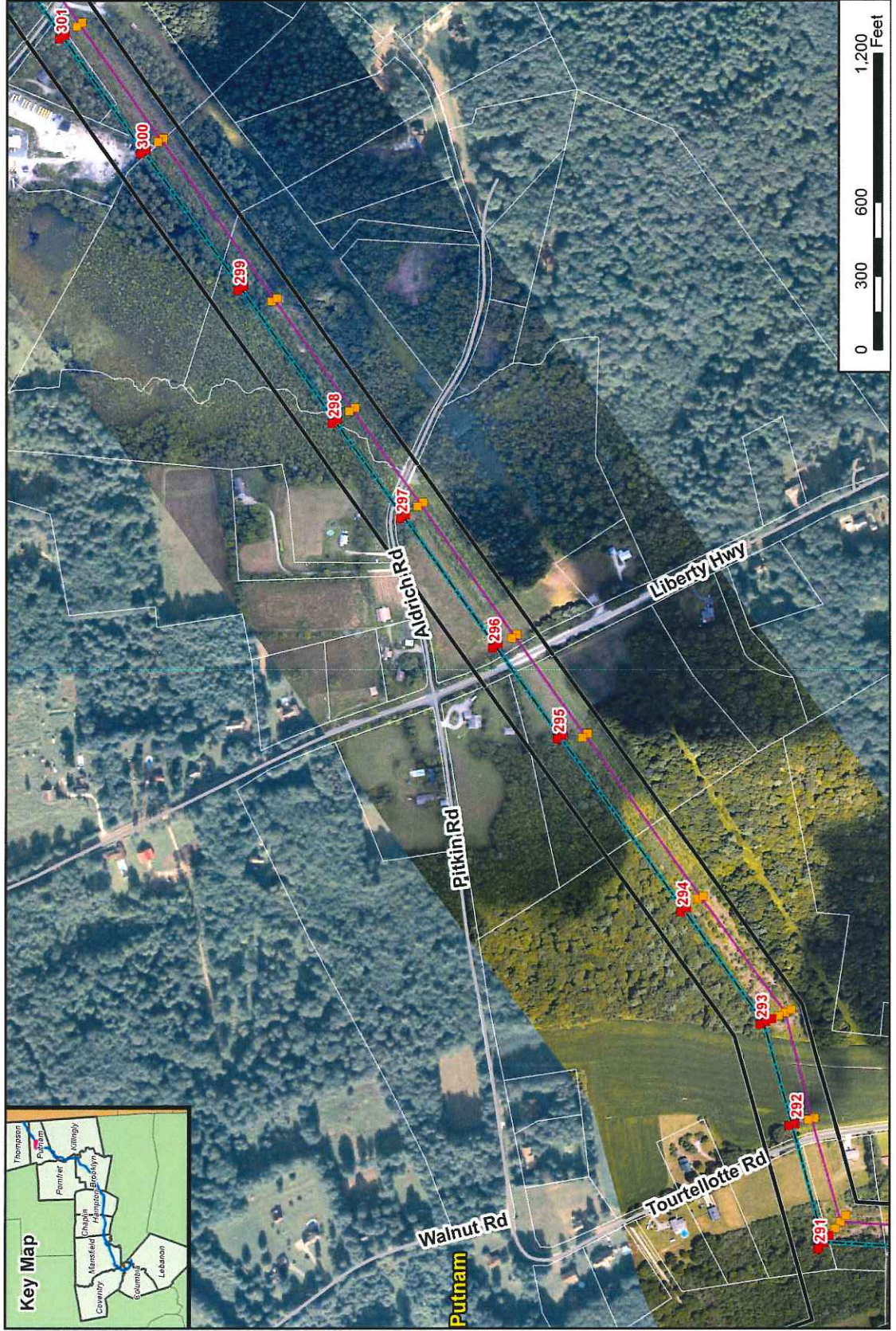
13. Tourtellotte Road - Cross section



- **Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest, agricultural, house/yard
- **Terrain:** Broad, gentle slopes to moderate
- **Existing Right-of-Way Width:** 300 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 140 feet
- **Additional Managed Right-of-Way Width Required:** 90 feet

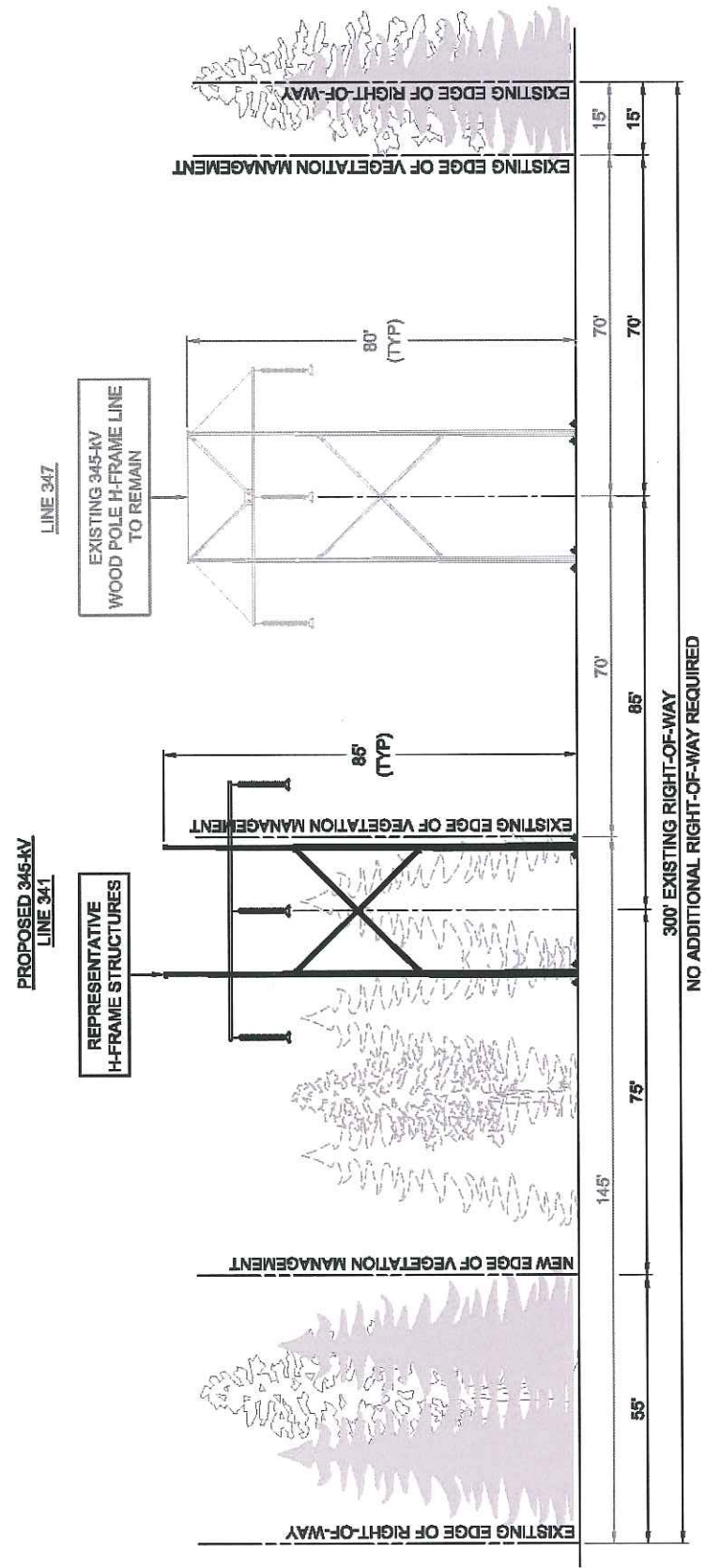


14. Liberty Highway (Rt. 21) - Putnam



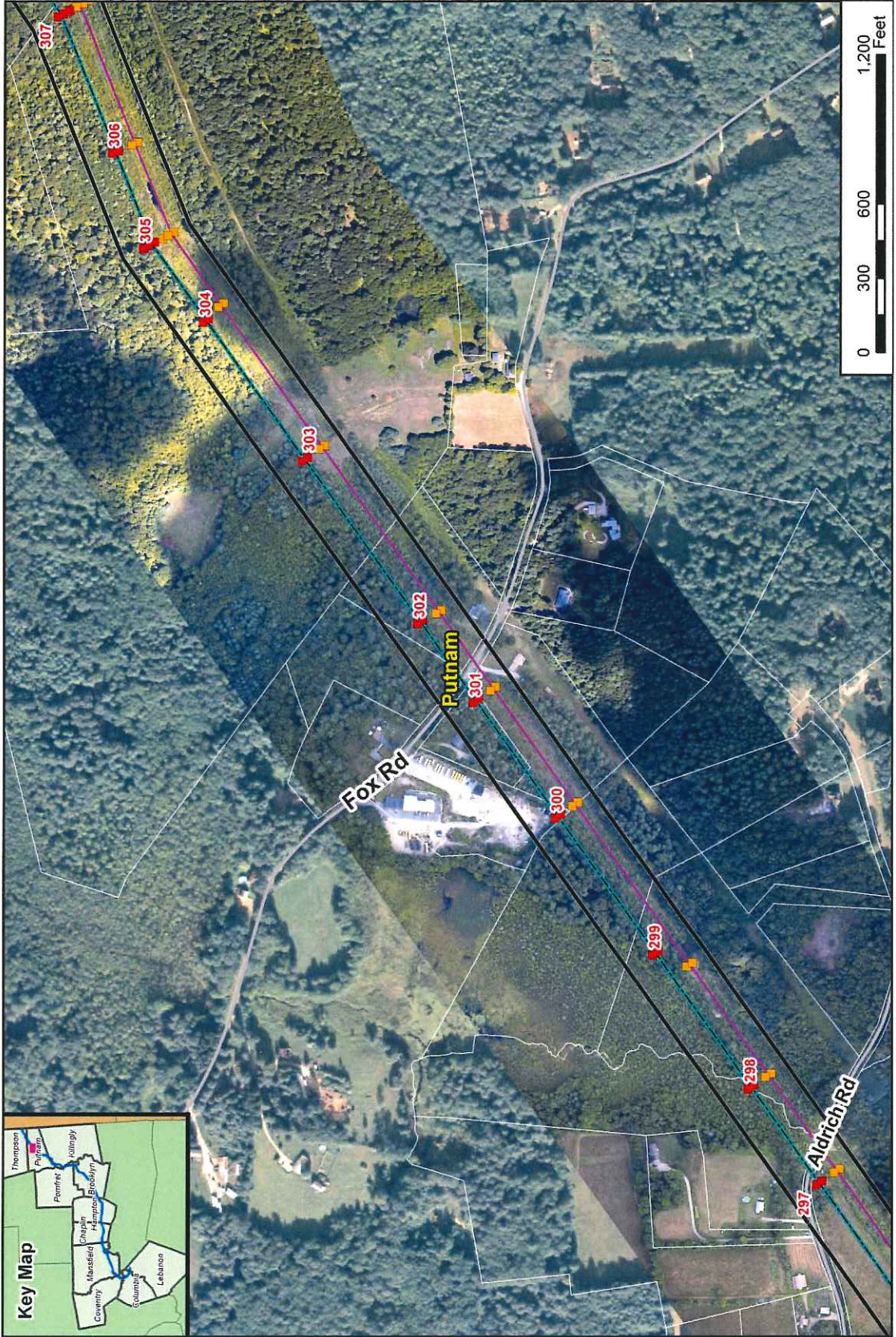


14. Liberty Highway (Rt. 21) - Cross section

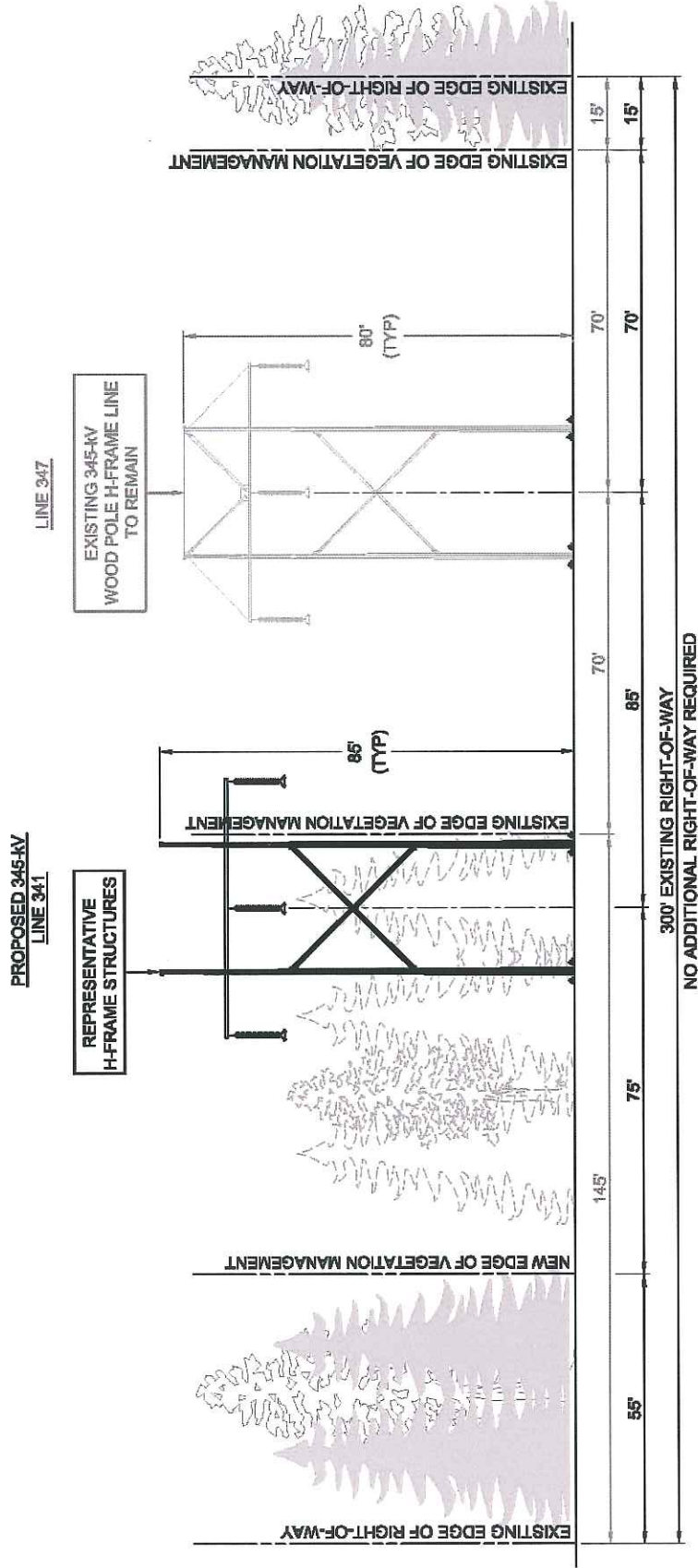


- **Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest, agricultural, house/yard
- **Terrain:** Broad, gentle slopes to moderate
- **Existing Right-of-Way Width:** 300 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 140 feet
- **Additional Managed Right-of-Way Width Required:** 90 feet

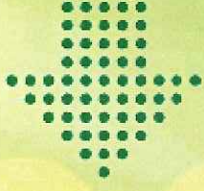
15. Fox Road - Putnam



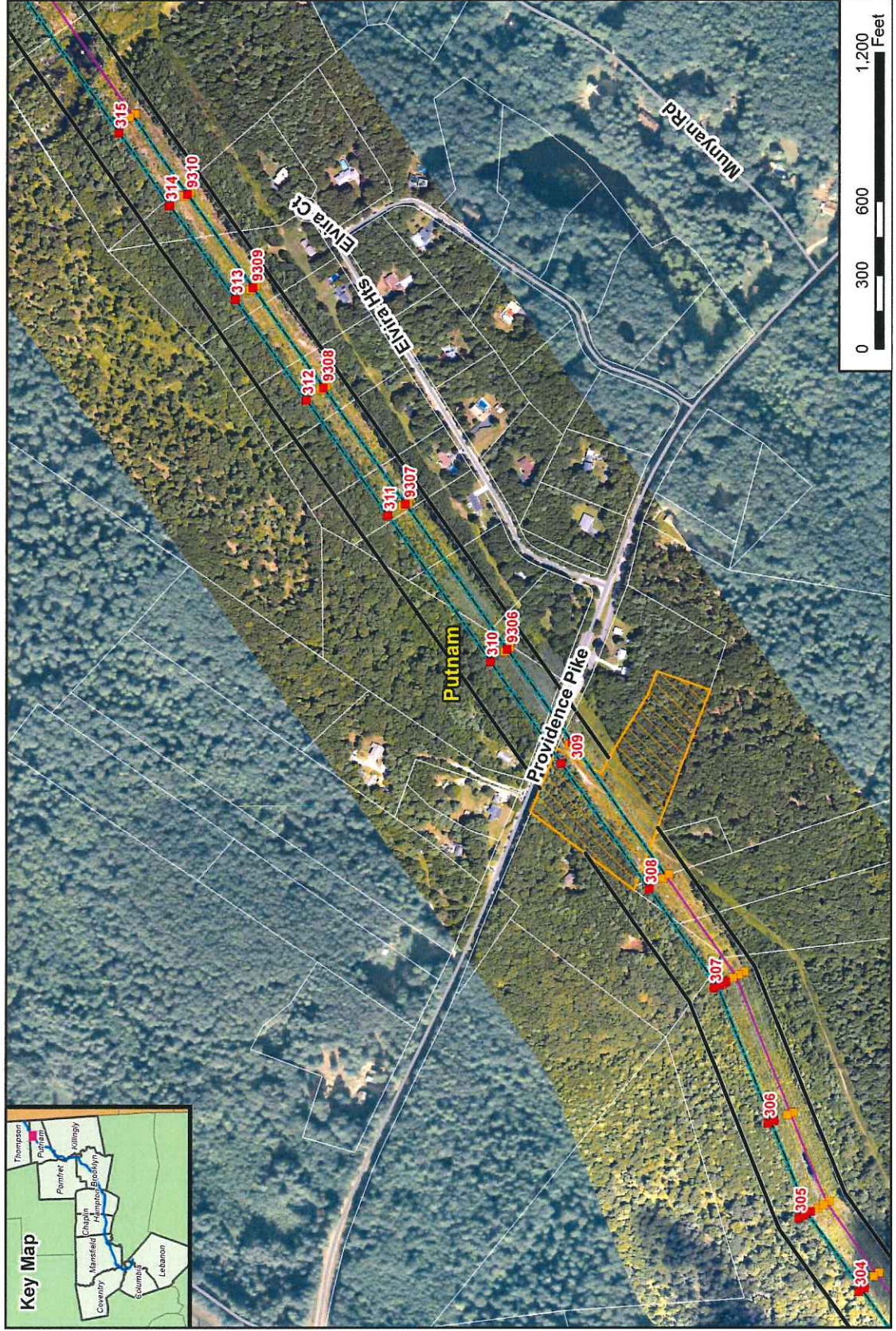
15. Fox Road – Cross section



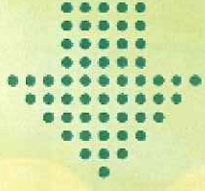
- **Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest, house/yard
- **Terrain:** Broad, gentle slopes to moderate
- **Existing Right-of-Way Width:** 300 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 140 feet
- **Additional Managed Right-of-Way Width Required:** 90 feet



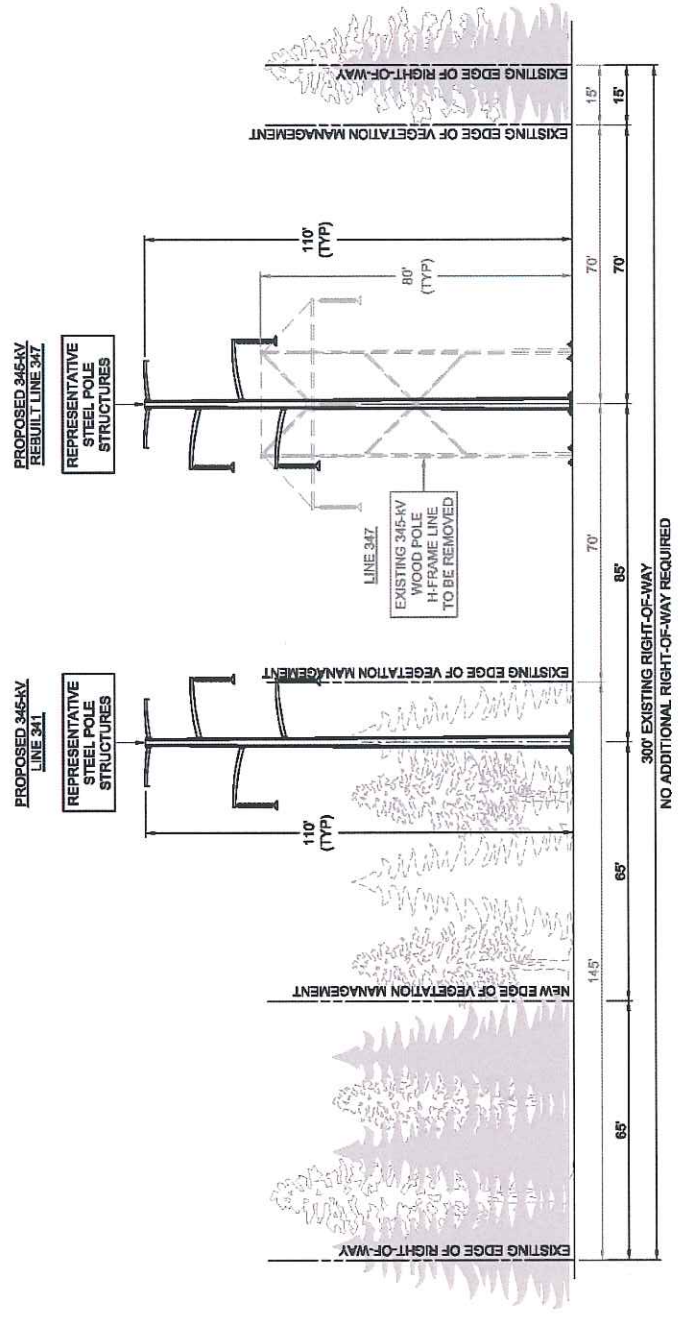
16. Providence Pike (Rt. 44) - Putnam



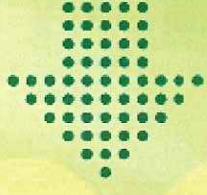
16. Providence Pike (Rt. 44) – Cross section - BMP FOCUS AREA E*



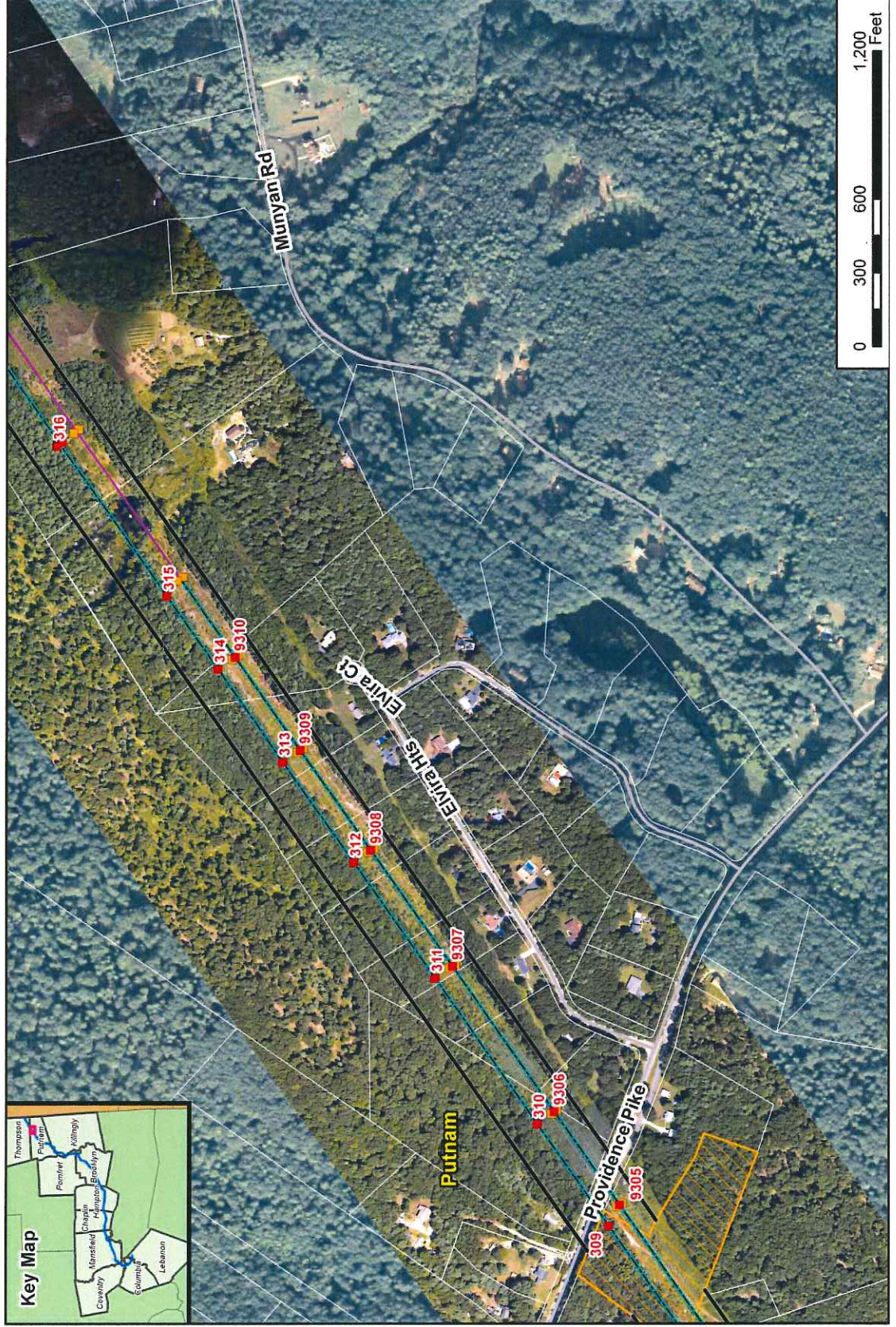
*BMP Focus Area: A section of the Project's Proposed Route under consideration for Electric and Magnetic Field Best Management Practices consistent with the CSC's 2007 guideline (Reference Vol. 1, Section 7, Appendices 7A and 7B of CSC application).



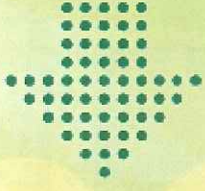
- **Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest, house/yard
- **Terrain:** Flat floodplains to moderate slopes
- **Existing Right-of-Way Width:** 300 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 140 feet
- **Additional Managed Right-of-Way Width Required:** 85 feet



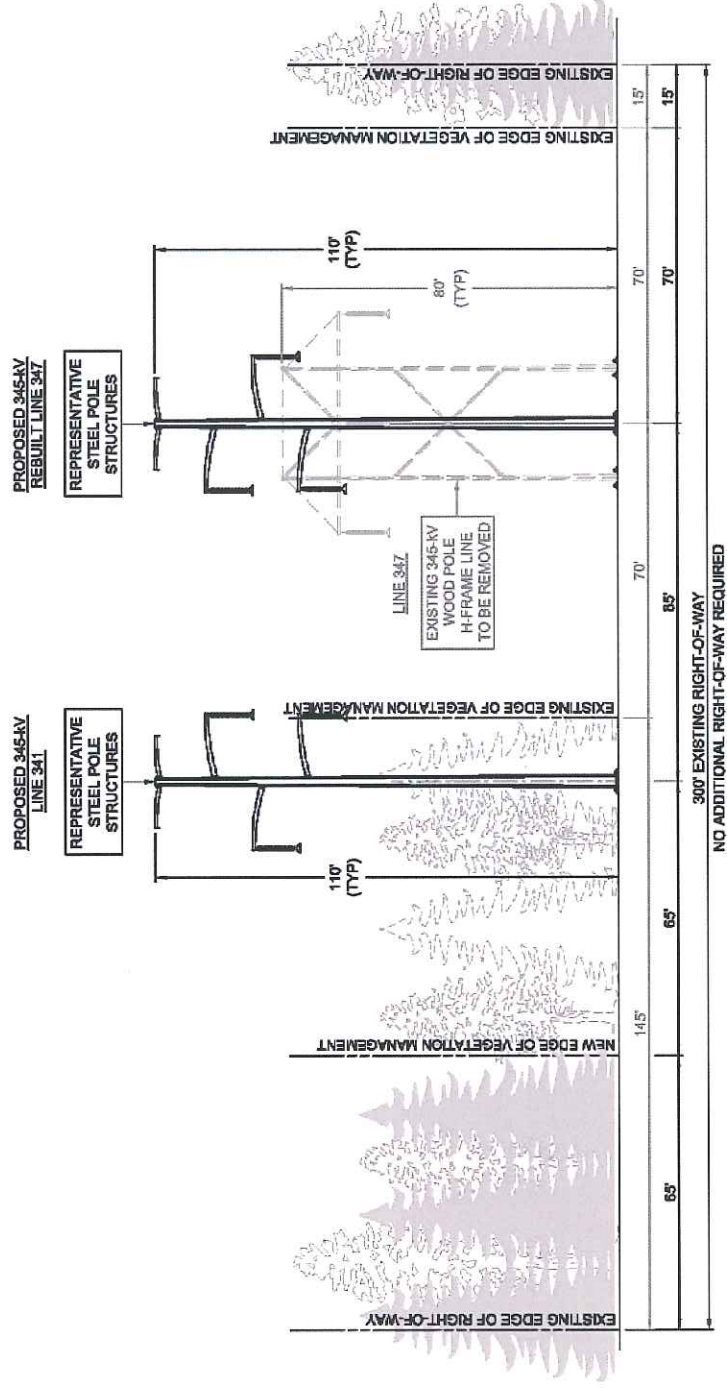
17. Elvira Heights / Munyan Road - Putnam



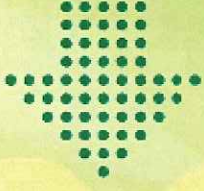
17. Elvira Heights / Munyan Road – Cross section – BMP FOCUS AREA E*



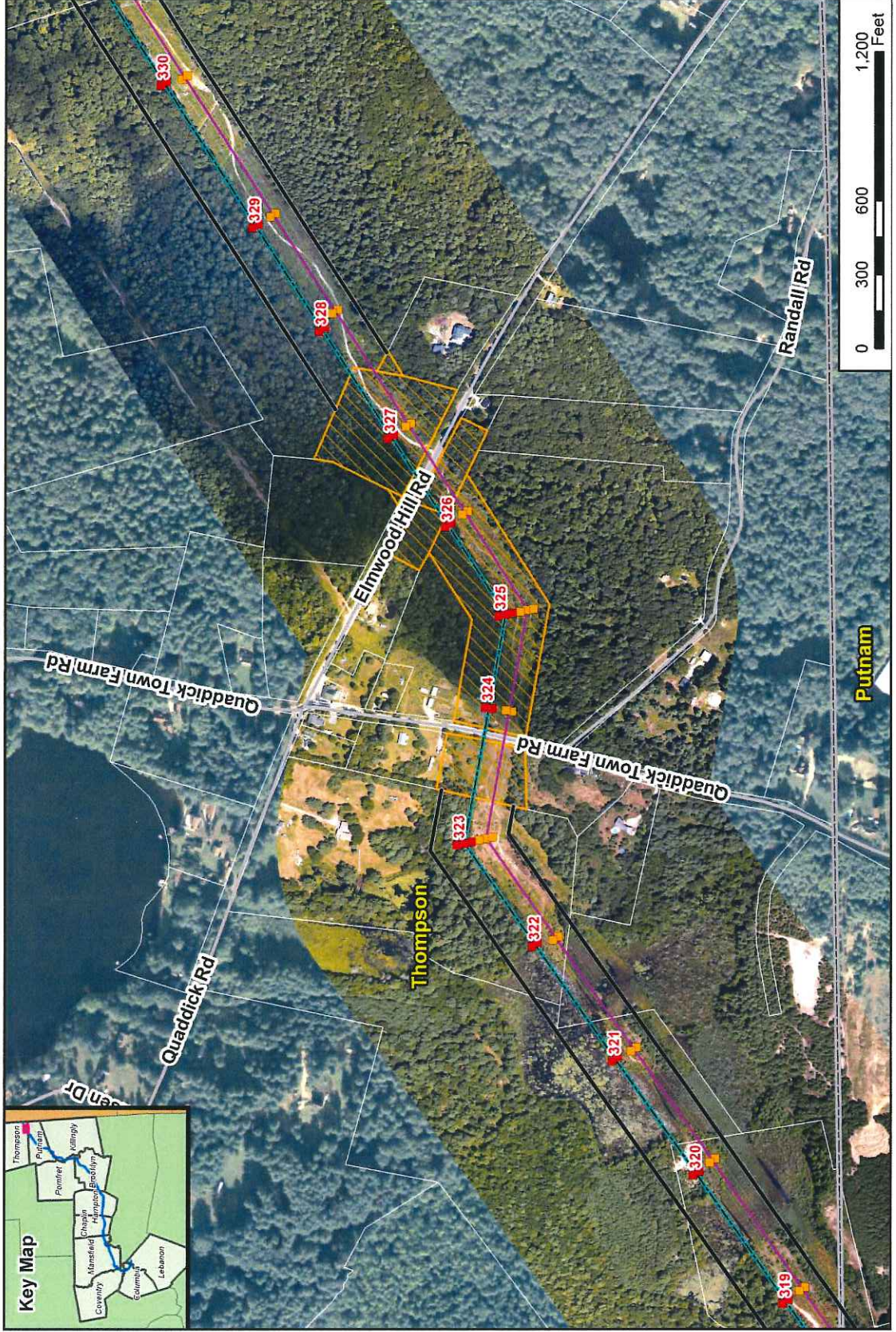
*BMP Focus Area: A section of the Project's Proposed Route under consideration for Electric and Magnetic Field Best Management Practices consistent with the CSC's 2007 guideline (Reference Vol. 1, Section 7, Appendices 7A and 7B of CSC application).



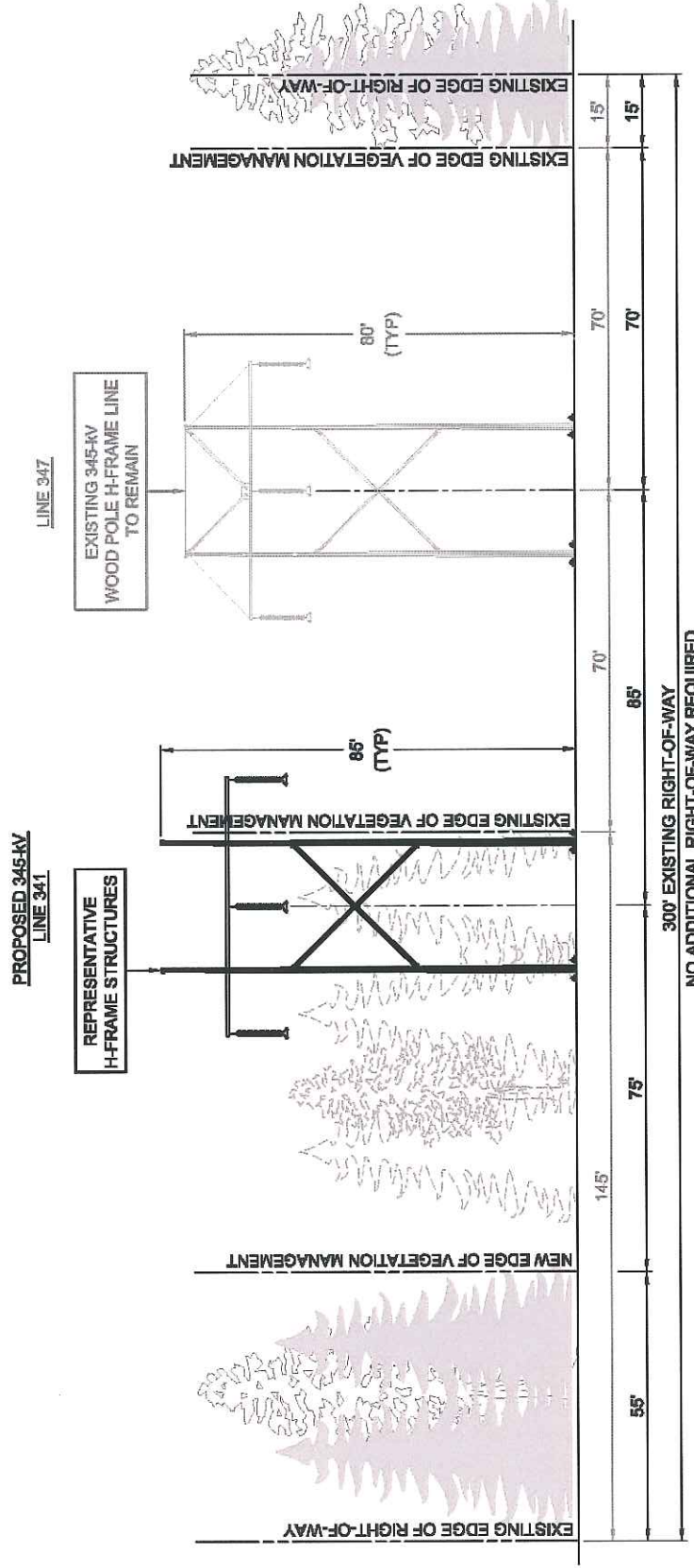
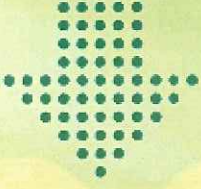
- **Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest, house/yard
- **Terrain:** Flat floodplains to moderate slopes
- **Existing Right-of-Way Width:** 300 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 140 feet
- **Additional Managed Right-of-Way Width Required:** 85 feet



18. Quaddick Town Farm Road / Elmwood Hill Road - Thompson



18. Quaddick Town Farm Road / Elmwood Hill Road - Cross section



- **Right-of-Way Vegetation:** Open field-shrub, upland and wetland forest, house/yard
- **Terrain:** Broad floodplains with areas of increased elevation to moderate slopes
- **Existing Right-of-Way Width:** 300 feet
- **Proposed Expansion of Right-of-Way Width:** 0 feet
- **Existing Managed Right-of-Way Width:** 140 feet
- **Additional Managed Right-of-Way Width Required:** 90 feet