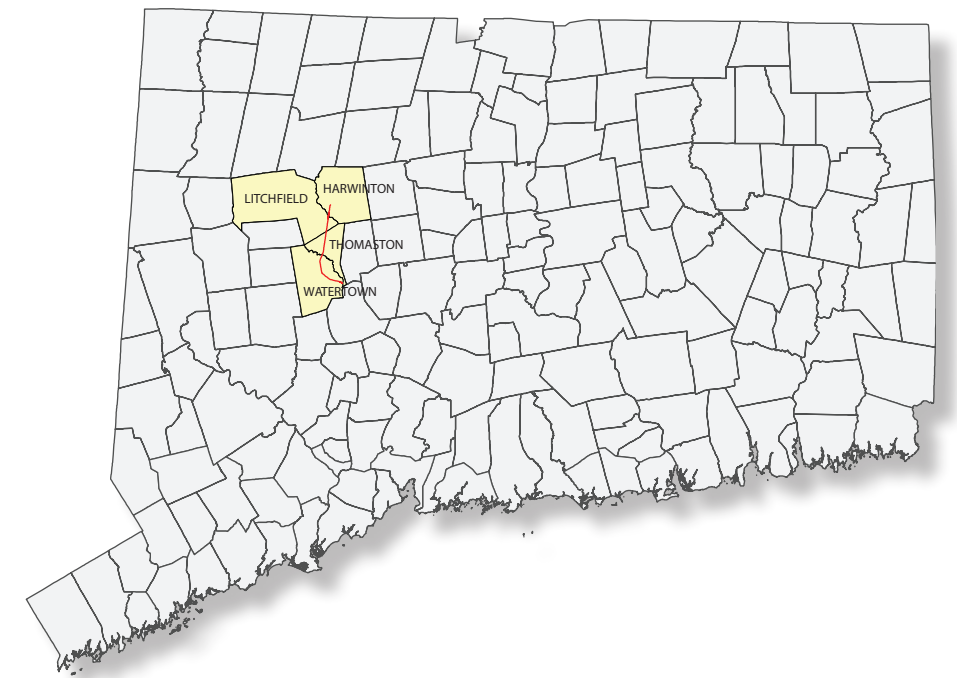
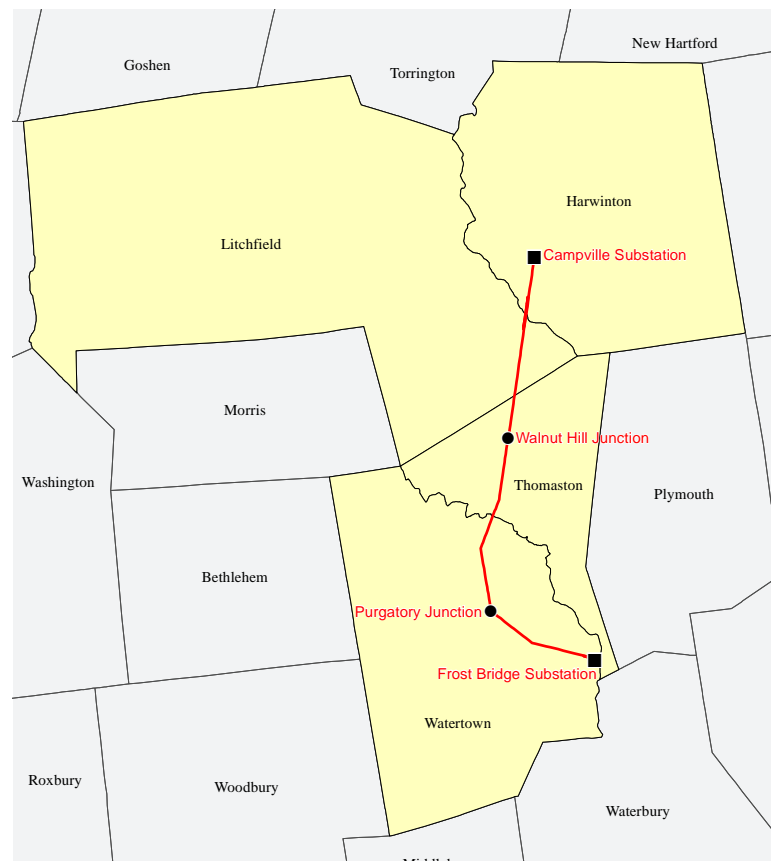




# FROST BRIDGE TO CAMPVILLE 115-kV PROJECT

TRANSMISSION LINE  
DEVELOPMENT AND  
MANAGEMENT PLAN  
VOLUME 3

JULY 2016



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## CROSS SECTION SHEET

### CROSS SECTIONS    DESCRIPTION

XS 1-6	<p>FROST BRIDGE SS LINE EXIT</p> <p>FROST BRIDGE SS LINE EXIT TO PURGATORY JCT</p> <p>PURGATORY JCT. TO WALNUT HILL JCT.</p> <p>WALNUT HILL JCT. TO S. BANK OF NAUGATUCK RIVER</p> <p>S. BANK OF NAUGATUCK RIVER TO N. BANK OF NAUGATUCK RIVER</p> <p>N. BANK OF NAUGATUCK RIVER TO CAMPVILLE SUBSTATION</p>
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## MAPSHEETS

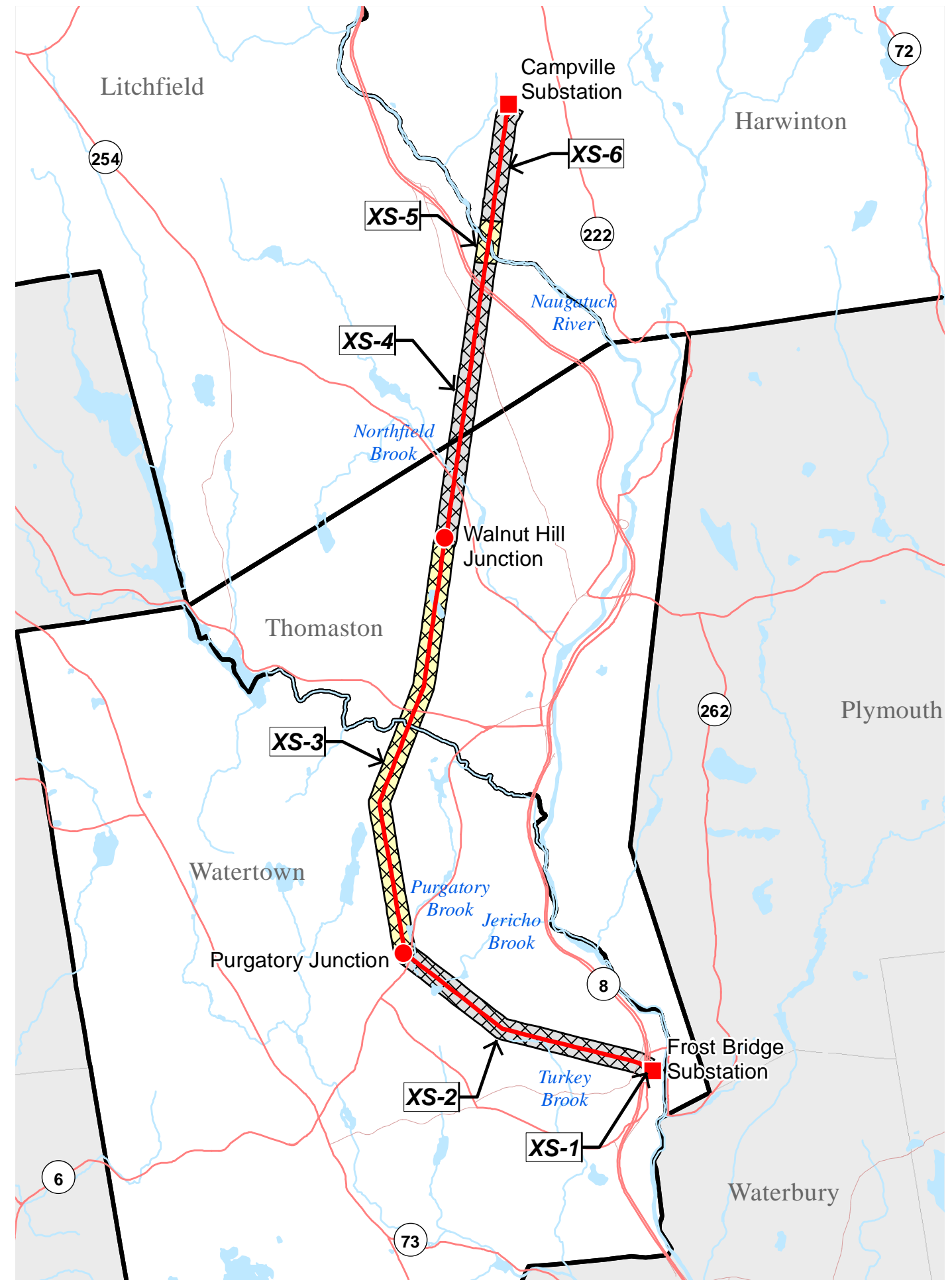
### MAPSHEETS    DESCRIPTION

INDEX MAPS 1-3	USGS 1:24,000 SCALE
SHEETS 1-35	FROST BRIDGE TO CAMPVILLE 115-KV PROJECT DEVELOPMENT & MANAGEMENT PLAN

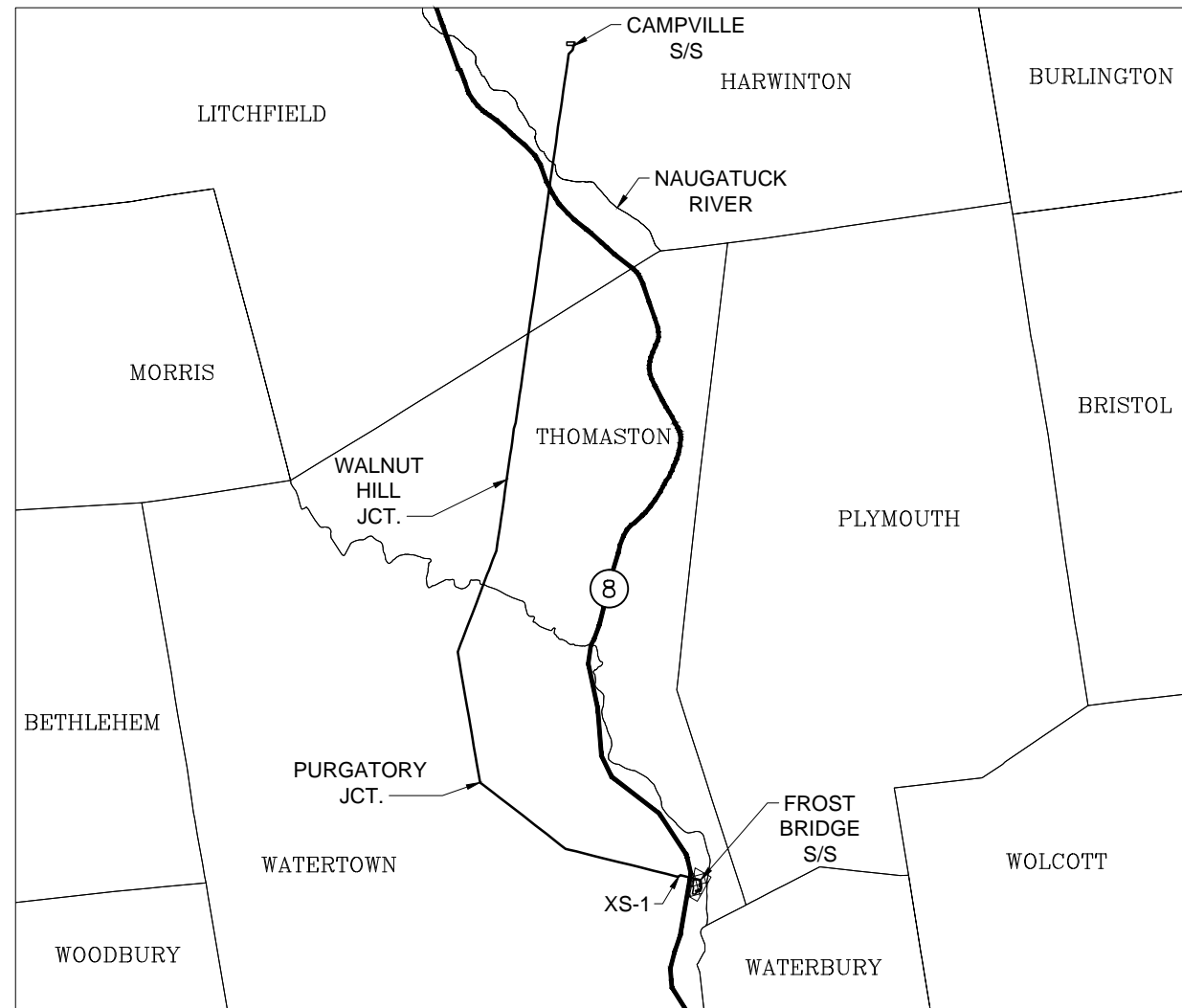
## DETAIL SHEETS

### SHEET    DESCRIPTION

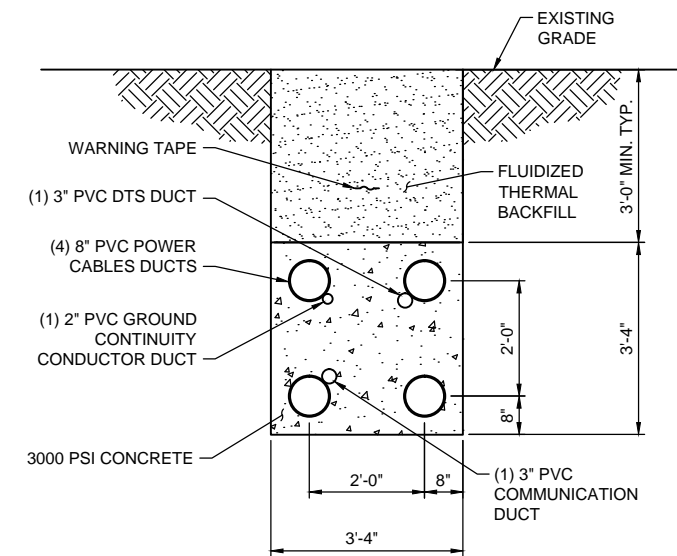
1	PERMITTED WATER RESOURCE IMPACTS
2	WATER RESOURCE PROTOCOLS
3	VERNAL POOL PROTOCOLS
4	RARE SPECIES AVOIDANCE & MINIMIZATION MEASURES
5	FARMLAND PROTECTION MEASURES & SOIL EROSION AND SEDIMENT CONTROL
6	TYPICAL DETAILS SHEET 1 OF 2
7	TYPICAL DETAILS SHEET 2 OF 2
8	TYPICAL STRUCTURE CONFIGURATIONS
9	TYPICAL FOUNDATION AND GROUNDING DETAILS
10	WATERCOURSE S-F11 CULVERT REPLACEMENT PLAN
11	WATERCOURSE S-F11 CULVERT REPLACEMENT CROSS SECTION AND DETAILS



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KEY MAP  
NOT TO SCALE



TYPICAL 115-kV DUCT BANK SECTION  
NOT TO SCALE

**PROPOSED ORIENTATION**

FROST BRIDGE SUBSTATION LINE EXIT

IN THE TOWN OF  
WATERTOWN

LOOKING  
SOUTH, EAST AND NORTH

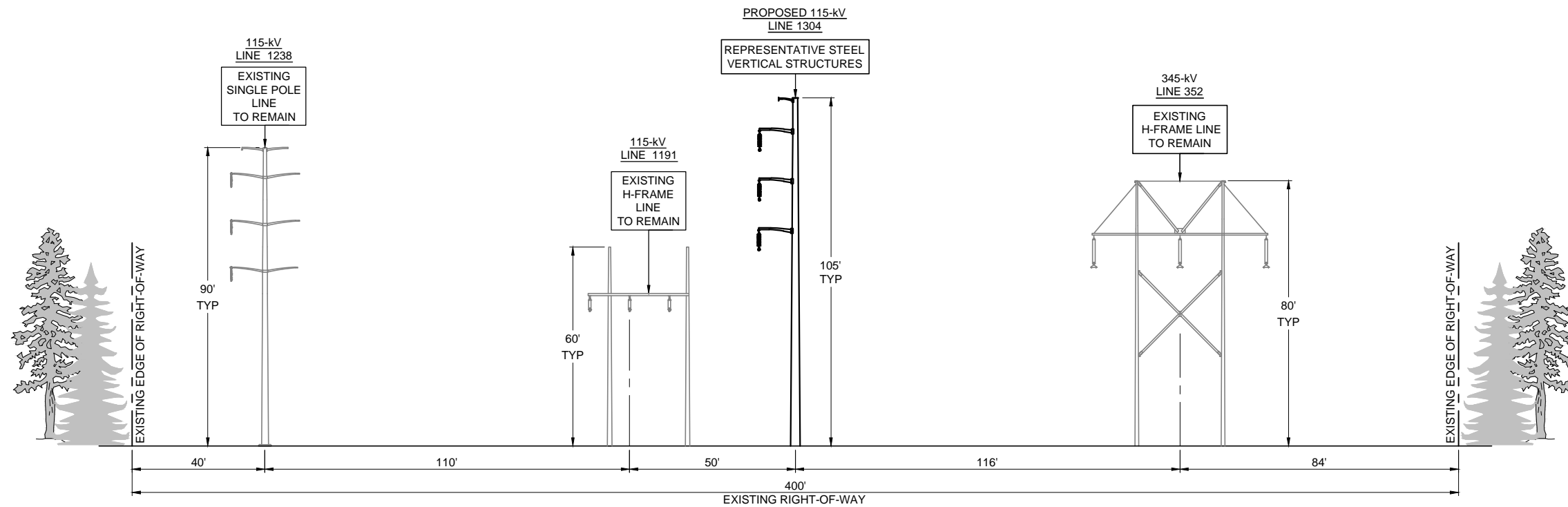
(0.1 MILE)

**NOTES:**

1. NEW TRANSMISSION LINE ALIGNMENT ON EVERSOURCE-OWNED PROPERTY.
2. DOES NOT INCLUDE THE LENGTH OF THE OVERHEAD TRANSMISSION LINE FROM THE SUBSTATION TERMINAL STRUCTURE TO THE TRANSITION STRUCTURE OUTSIDE THE FENCE LINE. THE LINE EXIT IS SHOWN IN FIGURE 3-2 OF VOLUME 1 AND EXHIBIT 1 AND 2 OF VOLUME 5.

TITLE <b>FROST BRIDGE TO CAMPVILLE 115-kV PROJECT FROST BRIDGE SUBSTATION LINE EXIT</b>			
BY C. KUNTZ	CHKD D. GOGOL	APP	APP
DATE 12/4/15	DATE 12/4/15	DATE	DATE
SCALE NONE	MICROFILM DATE	DWG. NO. <b>XS-1</b>	
P.A. #			

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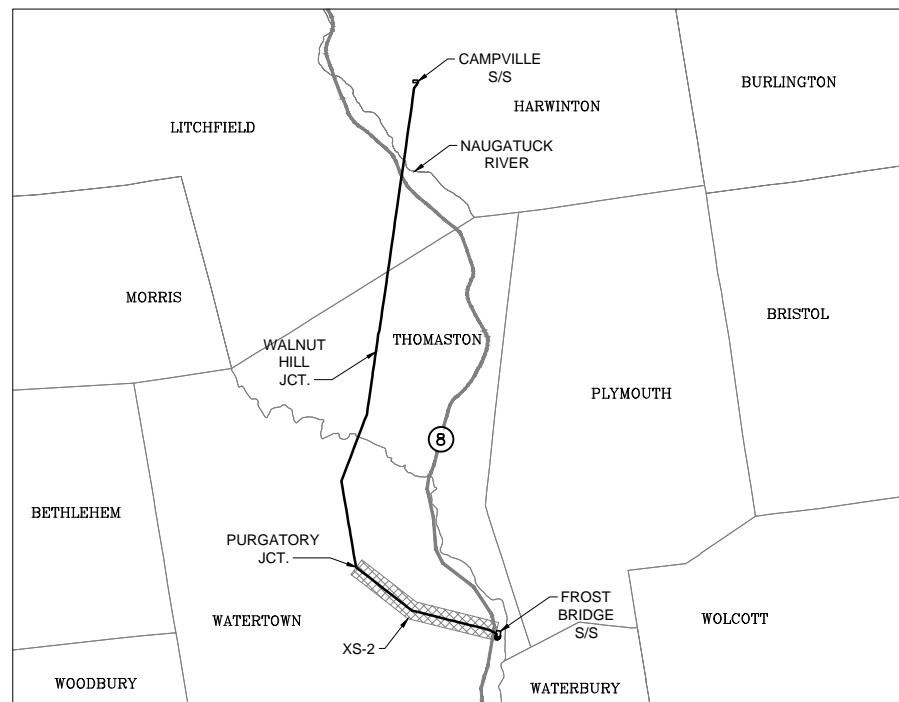
**PROPOSED CONFIGURATION  
VERTICAL DESIGN**

**FROST BRIDGE SUBSTATION LINE EXIT  
TO  
PURGATORY JUNCTION**

**IN THE TOWN OF  
WATERTOWN**

**LOOKING  
WEST**

**(2.5 MILES)**



**NOTES:**

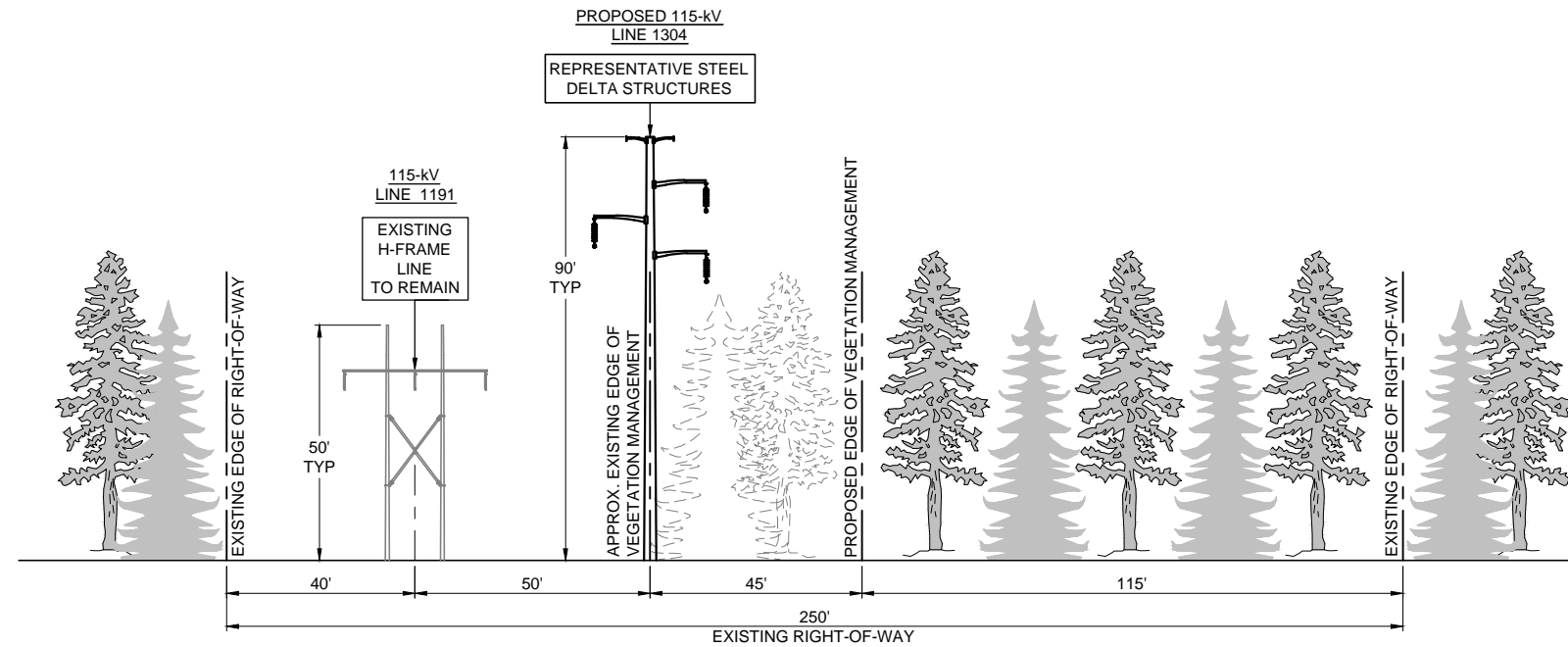
1. EXISTING LINES TO REMAIN.
2. PRELIMINARY STRUCTURE SPOTTING IS BASED ON STRUCTURE-FOR-STRUCTURE INSTALLATION.
3. EXISTING VEGETATION MANAGEMENT EDGES ARE TYPICAL.
4. AFTER THE CONDUCTORS HAVE BEEN INSTALLED, A REFERENCE IS ESTABLISHED THAT MAY IDENTIFY ADDITIONAL DANGER TREES OUTSIDE THE INITIALLY CLEARED AREA THAT MIGHT NEED TO BE REMOVED.
5. DEPICTED REPRESENTATIVE STRUCTURES ARE STEEL TANGENT STRUCTURES UTILIZING DIRECT EMBEDDED FOUNDATIONS. ANGLE AND DEADEND STRUCTURES WILL DIFFER AND BE PLACED ON CONCRETE FOUNDATIONS.

**TITLE**  
**FROST BRIDGE TO CAMPVILLE 115-kV PROJECT**  
**PROPOSED CROSS SECTIONS**  
**FROST BRIDGE S/S LINE EXIT TO PURGATORY JCT.**

BY D. LAURSEN	CHKD V. MONTEMURRO	APP	APP
DATE 12/16/15	DATE 12/16/15	DATE	DATE
SCALE NONE	MICROFILM DATE	DWG. NO.	<b>XS-2</b>
P.A. #			

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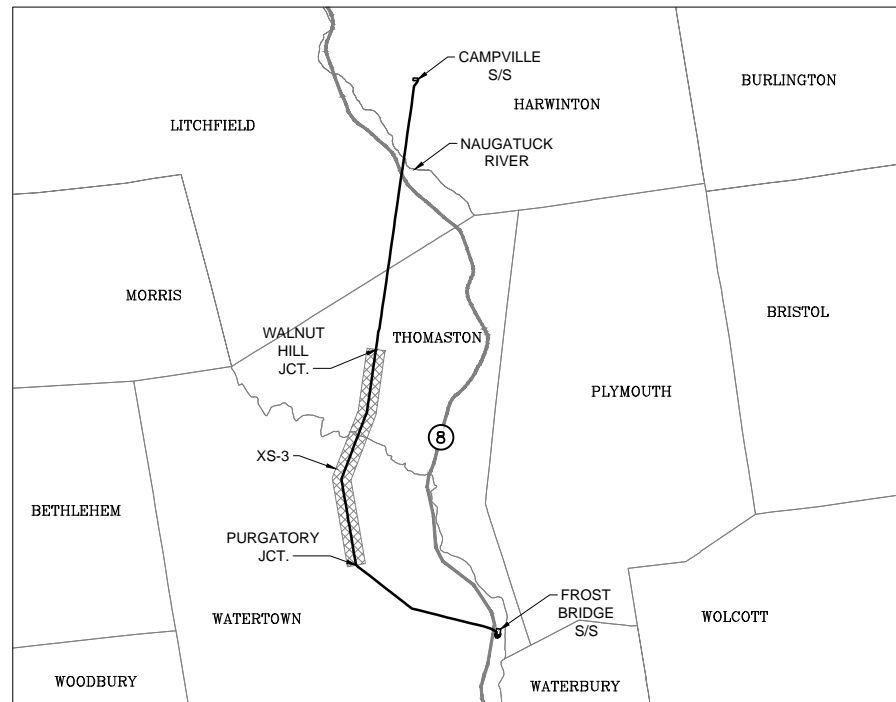


**PROPOSED CONFIGURATION  
DELTA DESIGN**

PURGATORY JUNCTION  
TO  
WALNUT HILL JUNCTION  
IN THE TOWNS OF  
WATERTOWN & THOMASTON

LOOKING  
NORTH

(3.8 MILES)



KEY MAP  
NOT TO SCALE

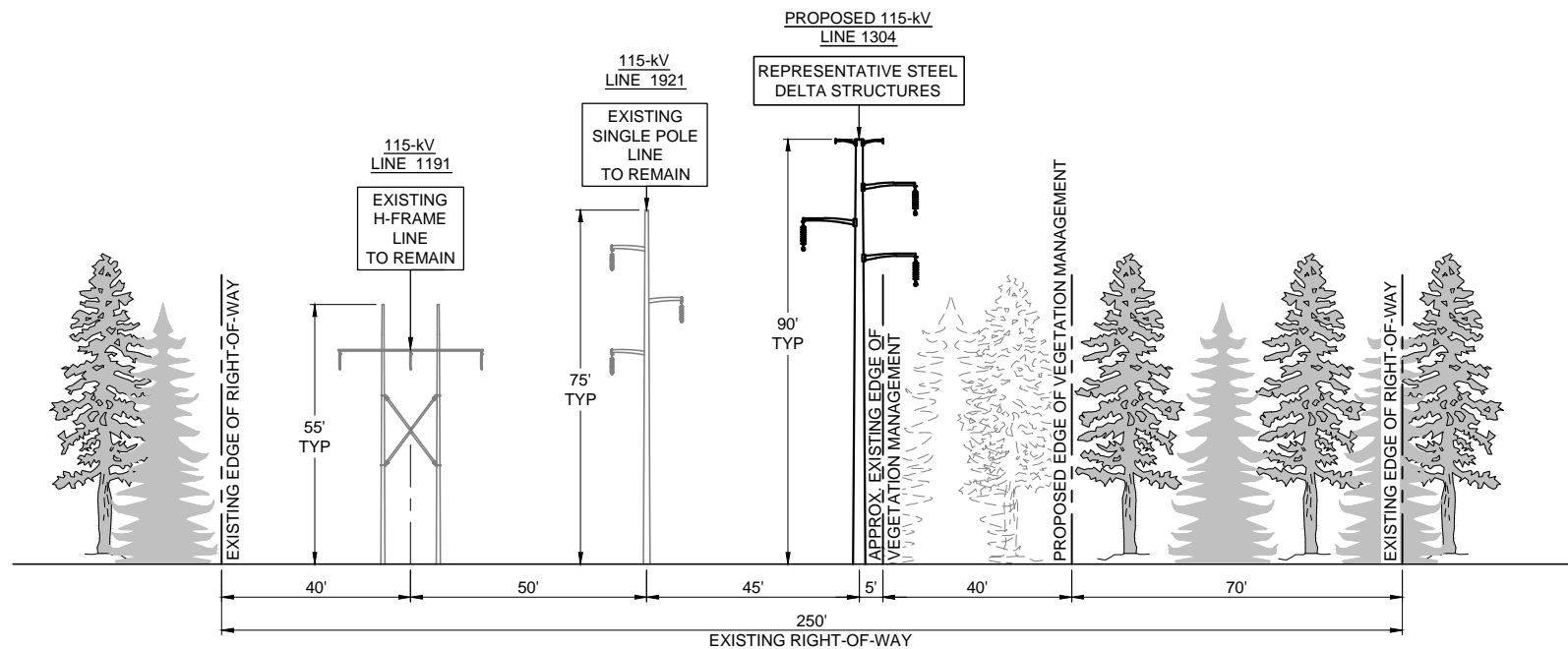


**NOTES:**

- EXISTING LINES TO REMAIN.
- PRELIMINARY STRUCTURE SPOTTING IS BASED ON STRUCTURE-FOR-STRUCTURE INSTALLATION.
- EXISTING VEGETATION MANAGEMENT EDGES ARE TYPICAL.
- AFTER THE CONDUCTORS HAVE BEEN INSTALLED, A REFERENCE IS ESTABLISHED THAT MAY IDENTIFY ADDITIONAL DANGER TREES OUTSIDE THE INITIALLY CLEARED AREA THAT MIGHT NEED TO BE REMOVED.
- DEPICTED REPRESENTATIVE STRUCTURES ARE STEEL TANGENT STRUCTURES UTILIZING DIRECT EMBEDDED FOUNDATIONS. ANGLE AND DEADEND STRUCTURES WILL DIFFER AND BE PLACED ON CONCRETE FOUNDATIONS.

TITLE <b>FROST BRIDGE TO CAMPVILLE 115-kV PROJECT PROPOSED CROSS SECTIONS PURGATORY JCT. TO WALNUT HILL JCT.</b>			
BY D. LAURSEN	CHKD V. MONTEMURRO	APP	APP
DATE 12/16/15	DATE 12/16/15	DATE	DATE
SCALE NONE	MICROFILM DATE	DWG. NO.	<b>XS-3</b>
P.A. #			

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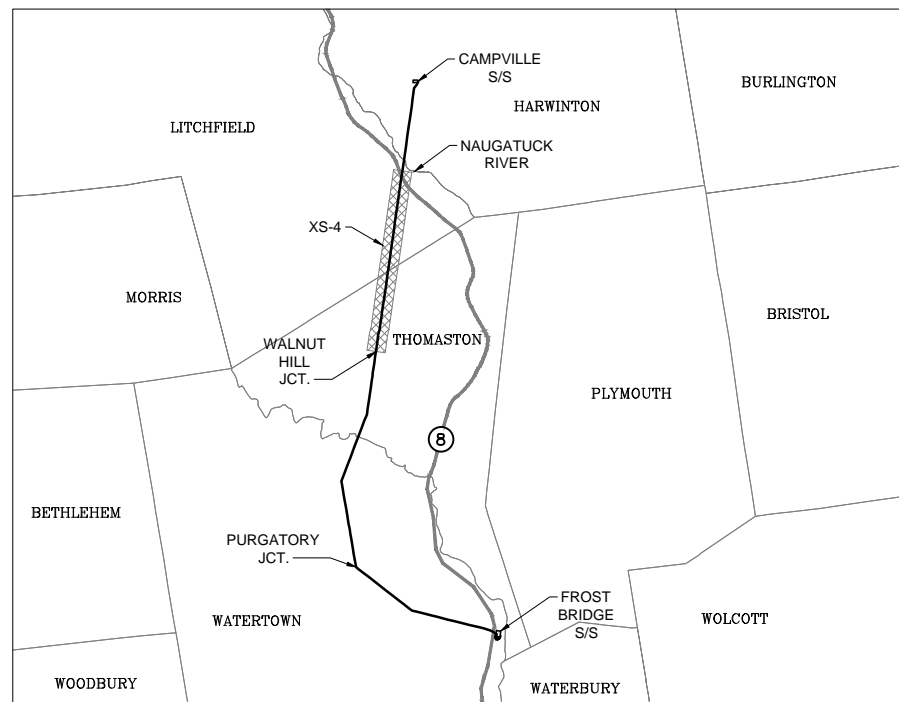
**PROPOSED CONFIGURATION  
DELTA DESIGN**

WALNUT HILL JUNCTION  
TO  
SOUTH BANK OF NAUGATUCK RIVER

IN THE TOWNS OF  
THOMASTON & LITCHFIELD

LOOKING  
NORTH

(2.5 MILES)



KEY MAP  
NOT TO SCALE



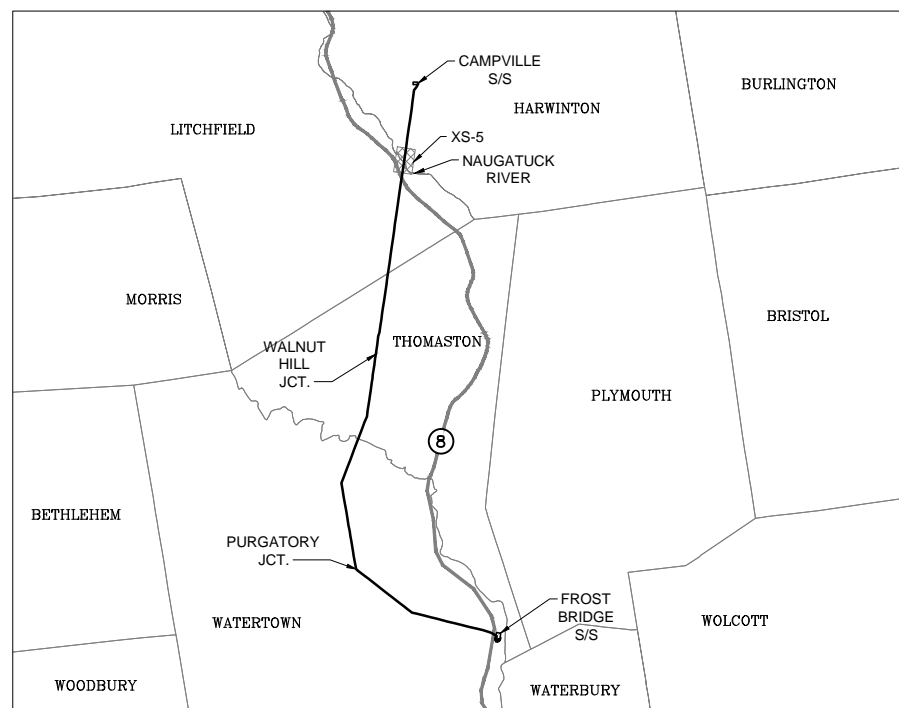
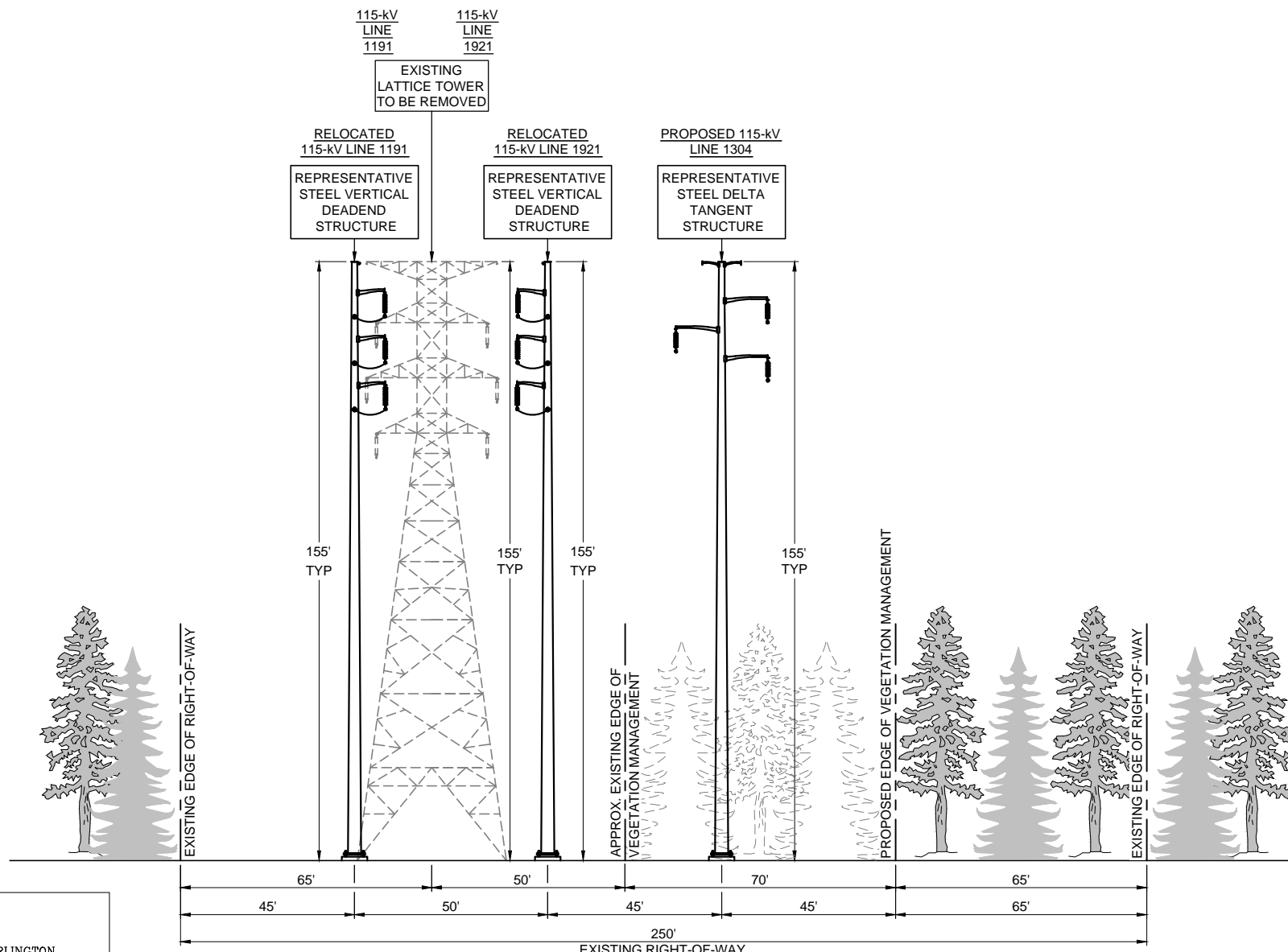
**NOTES:**

1. EXISTING LINES TO REMAIN.
2. PRELIMINARY STRUCTURE SPOTTING IS BASED ON STRUCTURE-FOR-STRUCTURE INSTALLATION.
3. EXISTING VEGETATION MANAGEMENT EDGES ARE TYPICAL.
4. AFTER THE CONDUCTORS HAVE BEEN INSTALLED, A REFERENCE IS ESTABLISHED THAT MAY IDENTIFY ADDITIONAL DANGER TREES OUTSIDE THE INITIALLY CLEARED AREA THAT MIGHT NEED TO BE REMOVED.
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TITLE  
**FROST BRIDGE TO CAMPVILLE 115-kV PROJECT  
PROPOSED CROSS SECTIONS  
WALNUT HILL JCT. TO S. BANK OF NAUGATUCK RIVER**

BY D. LAURSEN	CHKD V. MONTEMURRO	APP	APP
DATE 12/16/15	DATE 12/16/15	DATE	DATE
SCALE NONE	MICROFILM DATE	DWG. NO.	<b>XS-4</b>
P.A. #			

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KEY MAP  
NOT TO SCALE

**PROPOSED CONFIGURATION  
DELTA DESIGN**

SOUTH BANK OF NAUGATUCK RIVER  
TO  
NORTH BANK OF NAUGATUCK RIVER

IN THE TOWNS OF  
LITCHFIELD & HARWINTON

LOOKING  
NORTH

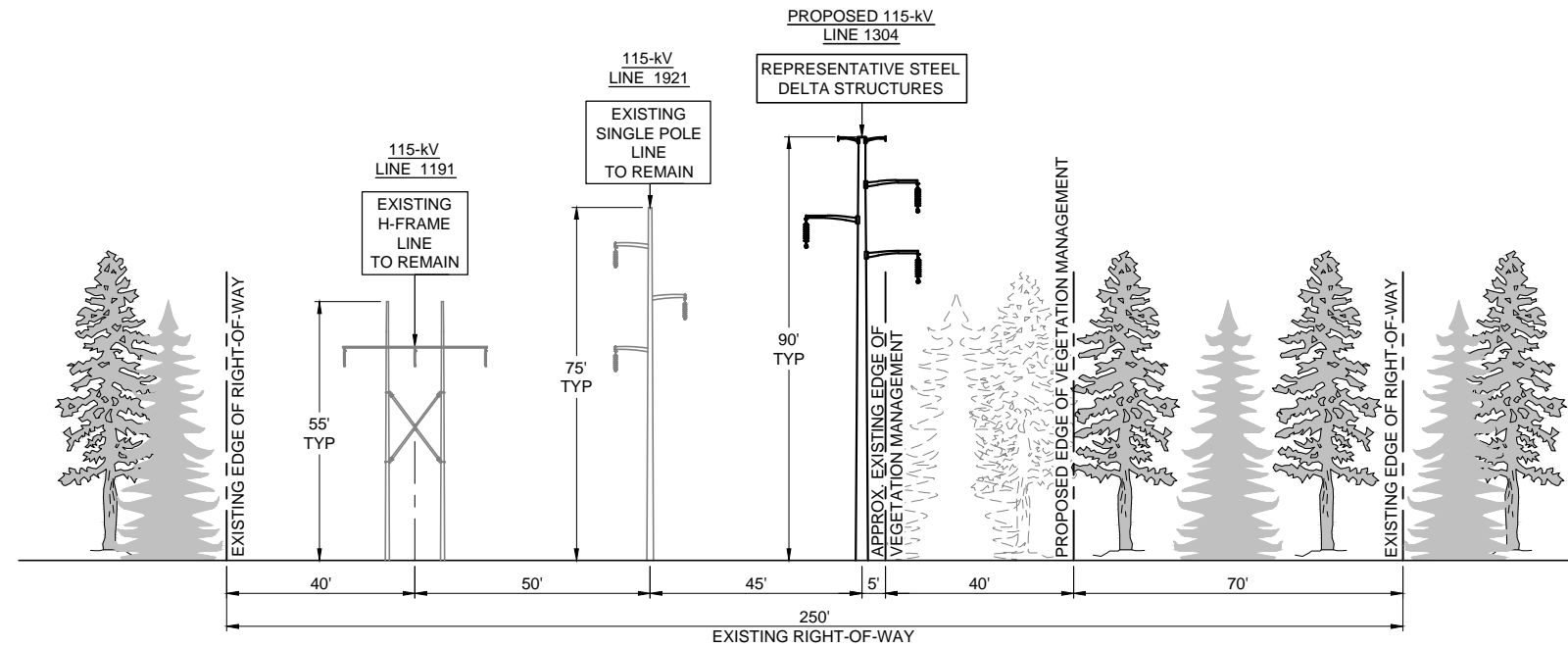
(0.4 MILE)

**NOTES:**

1. EXISTING LINES TO REMAIN.
2. PRELIMINARY STRUCTURE SPOTTING IS BASED ON STRUCTURE-FOR-STRUCTURE INSTALLATION.
3. EXISTING VEGETATION MANAGEMENT EDGES ARE TYPICAL.
4. AFTER THE CONDUCTORS HAVE BEEN INSTALLED, A REFERENCE IS ESTABLISHED THAT MAY IDENTIFY ADDITIONAL DANGER TREES OUTSIDE THE INITIALLY CLEARED AREA THAT MIGHT NEED TO BE REMOVED.

TITLE <b>FROST BRIDGE TO CAMPVILLE 115-kV PROJECT PROPOSED CROSS SECTIONS S. BANK OF NAUGATUCK RIVER. TO N. BANK OF NAUGATUCK RIVER</b>			
BY D. LAURSEN	CHKD V. MONTEMURRO	APP	APP
DATE 12/16/15	DATE 12/16/15	DATE	DATE
SCALE NONE	MICROFILM DATE	DWG. NO.	<b>XS-5</b>
P.A. #			

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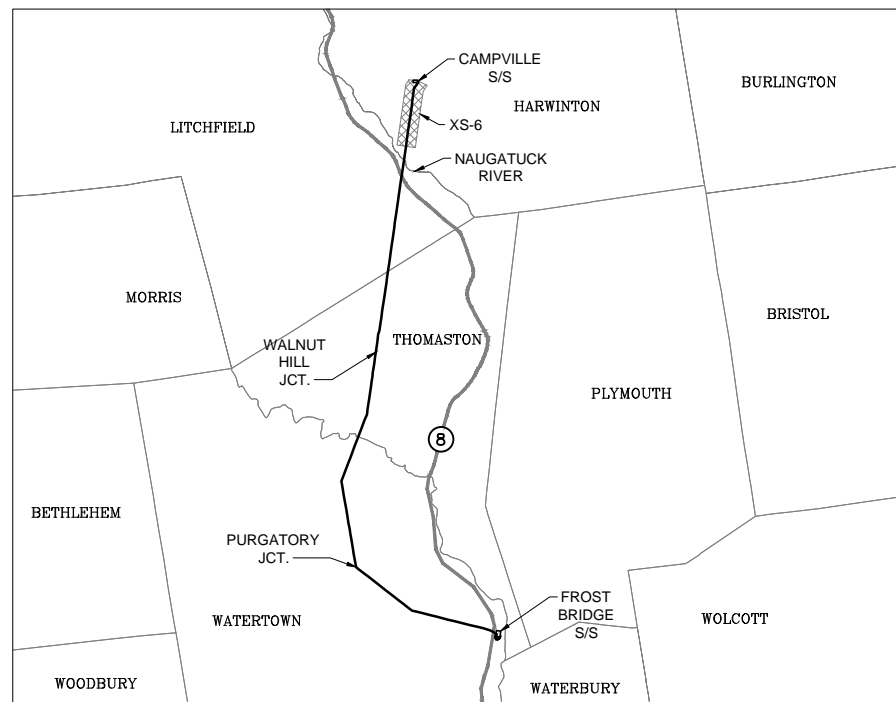
**PROPOSED CONFIGURATION  
DELTA DESIGN**

**NORTH BANK OF NAUGATUCK RIVER  
TO  
CAMPVILLE SUBSTATION**

**IN THE TOWN OF  
HARWINTON**

**LOOKING  
NORTH**

**(1.0 MILES)**



KEY MAP  
NOT TO SCALE



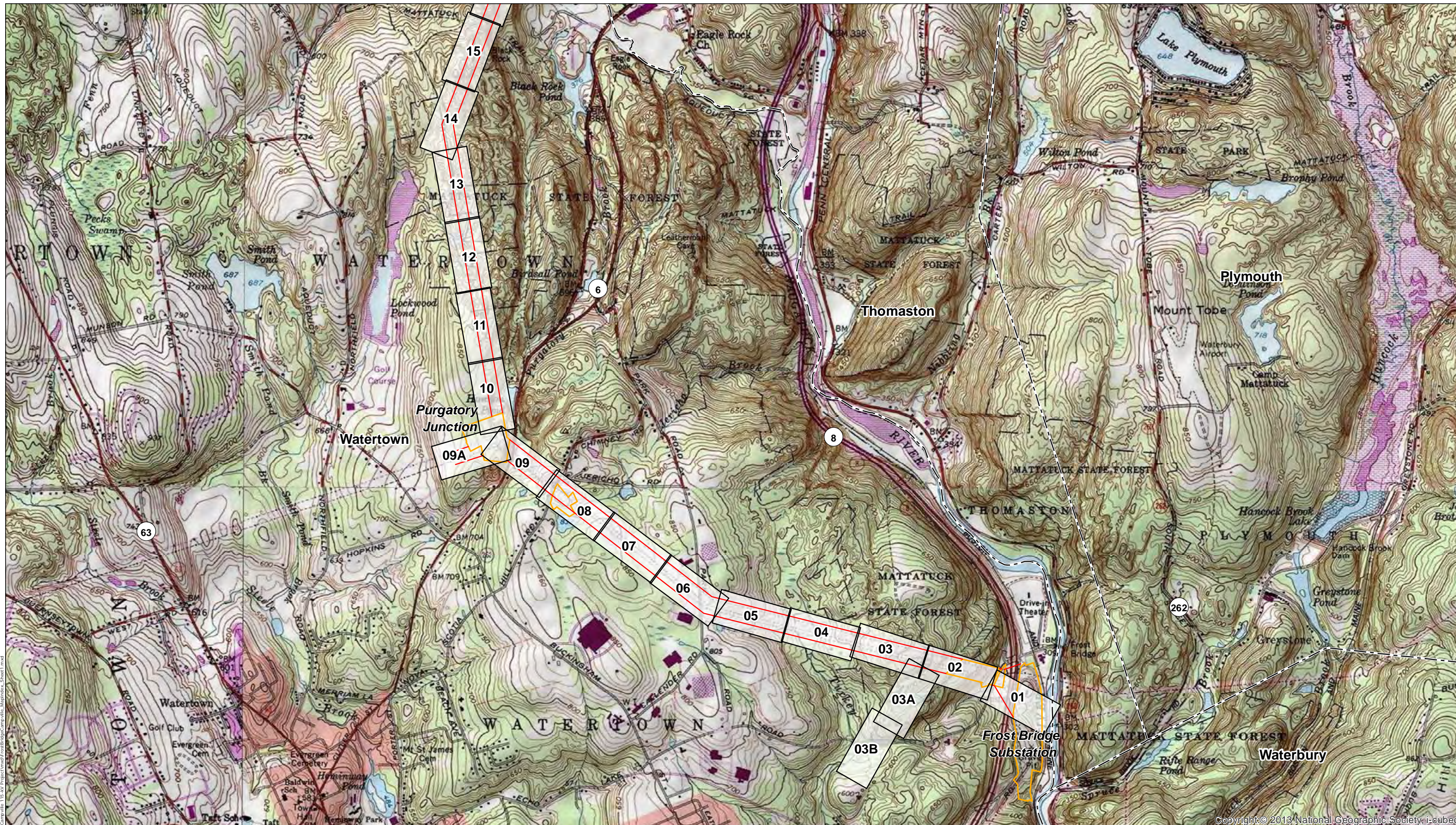
**NOTES:**

1. EXISTING LINES TO REMAIN.
2. PRELIMINARY STRUCTURE SPOTTING IS BASED ON STRUCTURE-FOR-STRUCTURE INSTALLATION.
3. EXISTING VEGETATION MANAGEMENT EDGES ARE TYPICAL.
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5. DEPICTED REPRESENTATIVE STRUCTURES ARE STEEL TANGENT STRUCTURES UTILIZING DIRECT EMBEDDED FOUNDATIONS. ANGLE AND DEADEND STRUCTURES WILL DIFFER AND BE PLACED ON CONCRETE FOUNDATIONS.

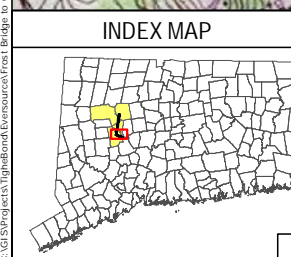
TITLE <b>FROST BRIDGE TO CAMPVILLE 115-kV PROJECT PROPOSED CROSS SECTIONS N. BANK OF NAUGATUCK RIVER TO CAMPVILLE SUBSTATION</b>			
BY D. LAURSEN	CHKD V. MONTEMURRO	APP	APP
DATE 12/16/15	DATE 12/16/15	DATE	DATE
SCALE NONE	MICROFILM DATE	DWG. NO.	<b>XS-6</b>
P.A. #			

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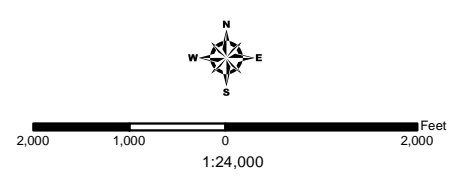




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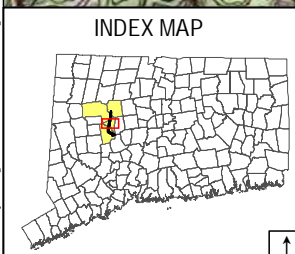
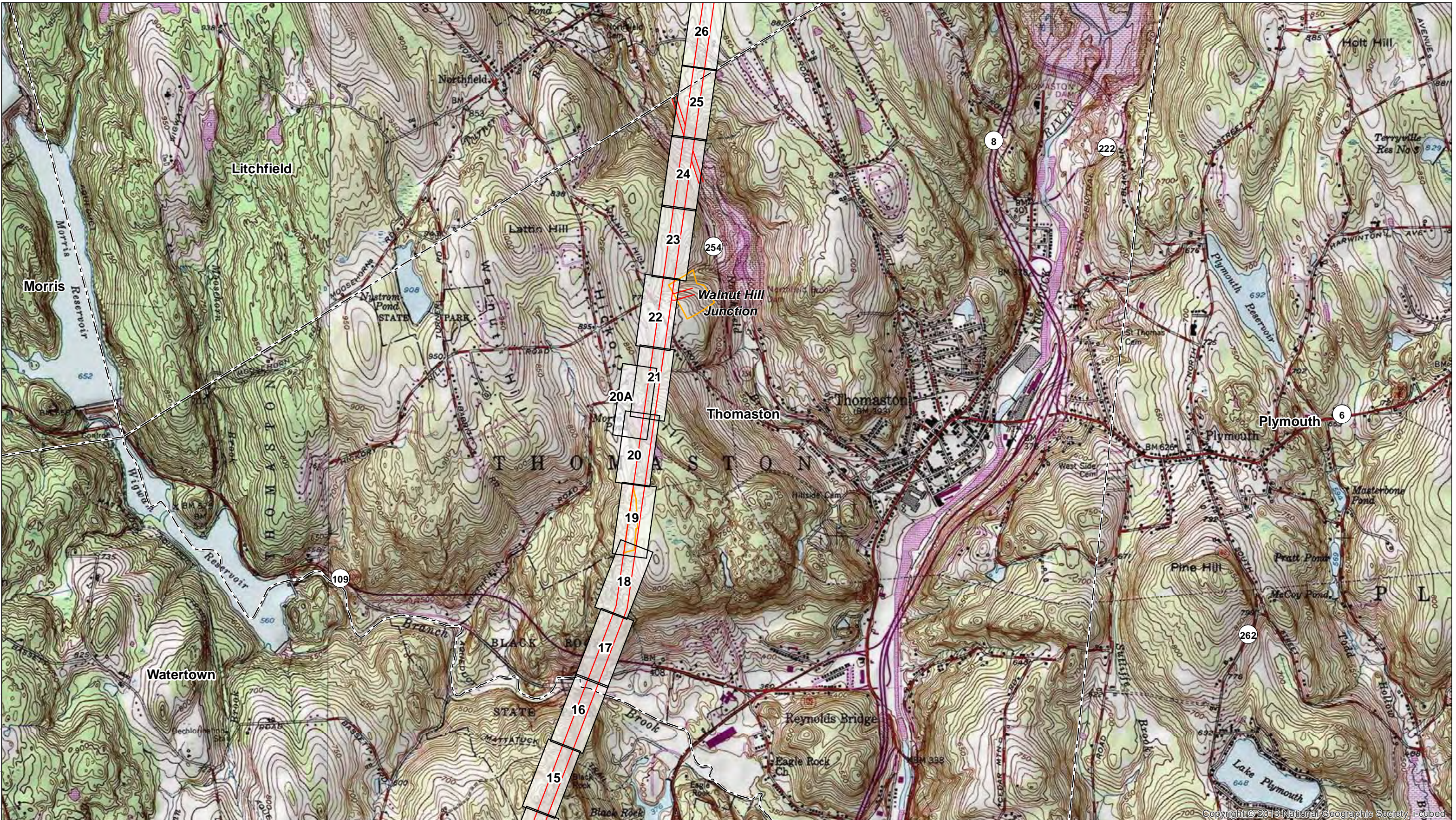


- Legend**
- Map Sheet
  - Existing Right-of-Way
  - Eversource Owned Property
  - Municipal Boundary



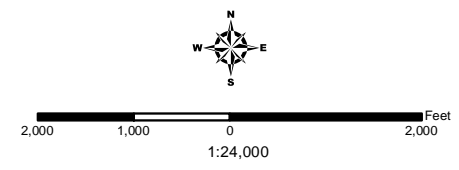
Base Map Source: ESRI USA Topo Maps

<b>EVERSOURCE ENERGY</b>					
<b>Frost Bridge to Campville 115-kV Project Index Map - Sheet 1</b>					
Watertown, CT					
Date: July, 2016			Map Author: N. Castro		
NO.	DATE	REVISIONS	BY	CHK	APP



**Legend**

- Map Sheet
- Existing Right-of-Way
- Eversource Owned Property
- Municipal Boundary



NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVERSOURCE**  
ENERGY

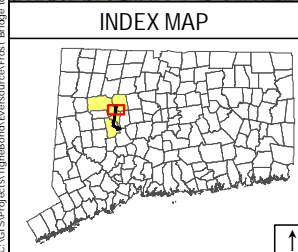
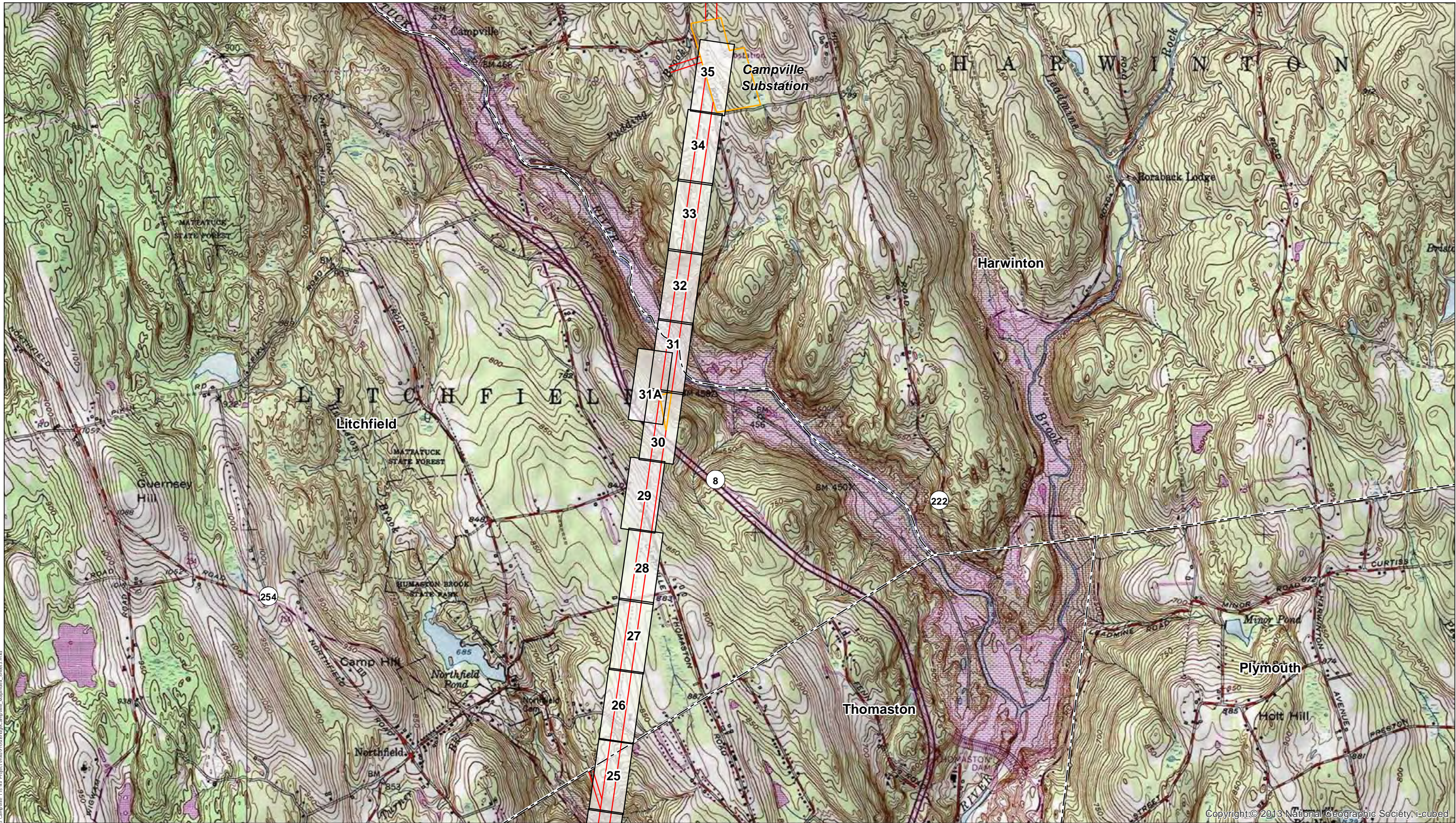
**Frost Bridge to Campville  
115-kV Project  
Index Map - Sheet 2**

Watertown, Thomaston, and Litchfield, CT

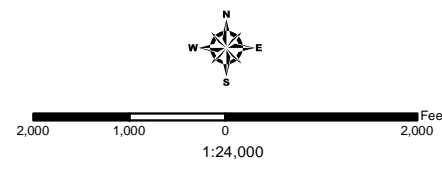
Date: July, 2016      Map Author: N. Castro

Base Map Source: ESRI USA Topo Maps

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- Legend**
- Map Sheet
  - Existing Right-of-Way
  - Eversource Owned Property
  - Municipal Boundary



Base Map Source: ESRI USA Topo Maps

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**EVERSOURCE**  
ENERGY

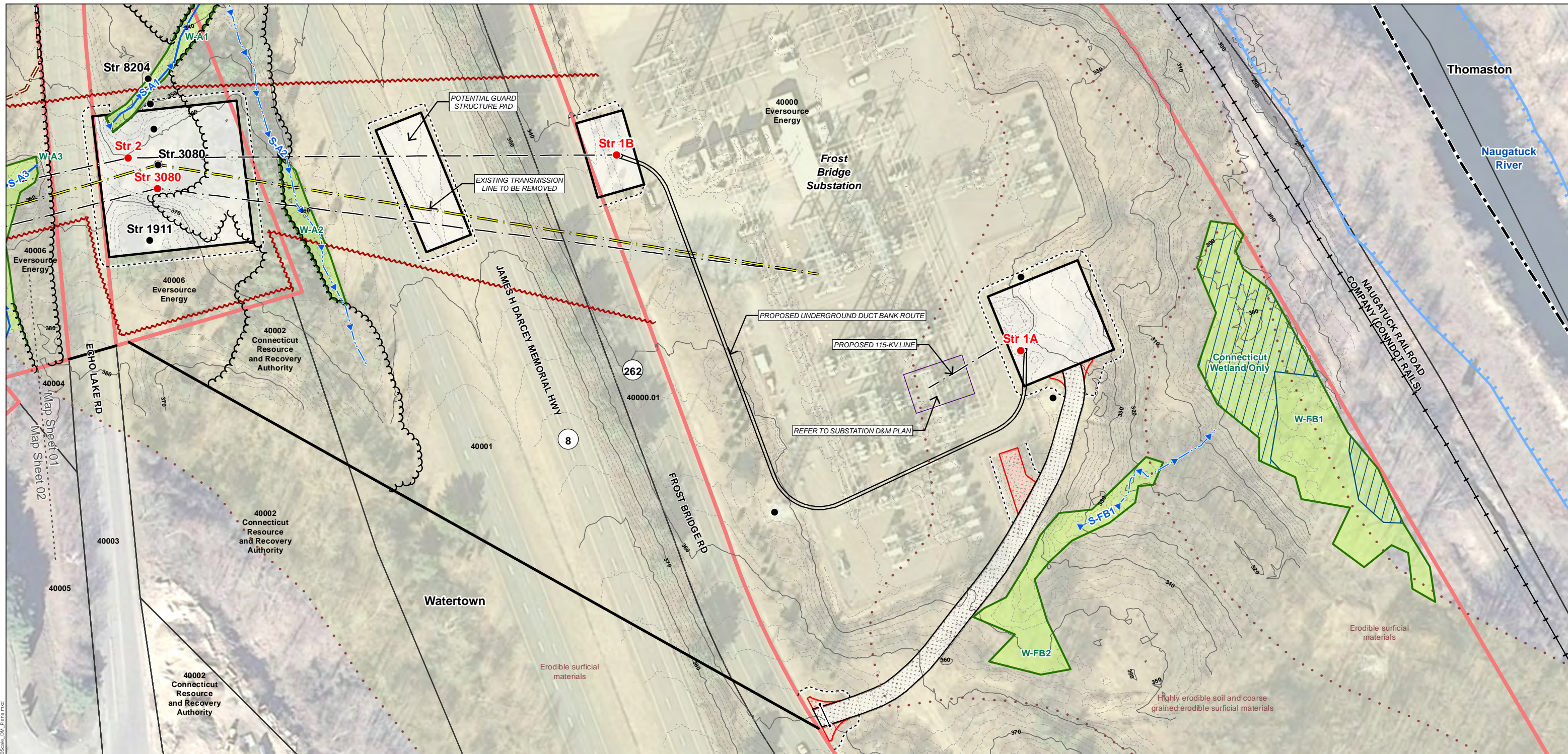
**Frost Bridge to Campville  
115-kV Project  
Index Map - Sheet 3**

Thomaston, Litchfield, and Harwinton, CT

Date: July, 2016      Map Author: N. Castro

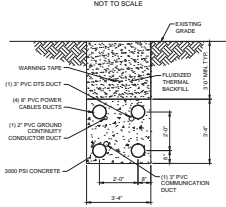
NO.	DATE	REVISIONS	BY	CHK	APP	APP

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XS-1 UNDERGROUND CABLE SEGMENT

TYPICAL 115-KV DUCT BANK SECTION  
NOT TO SCALE



**WORK AREA BOUNDARIES IN / NEAR WETLANDS**

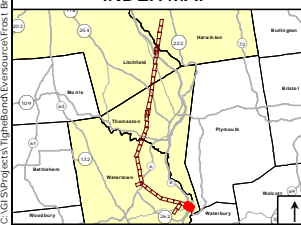
1. VEGETATION REMOVAL WILL OCCUR WITHIN THE VEGETATION REMOVAL LIMITS AS SHOWN, WITH TEMPORARY ACCESS ROUTES IN AND ACROSS WETLANDS AS NECESSARY UNLESS OTHERWISE NOTED. ADDITIONALLY, DANGER OR HAZARD TREE REMOVAL MAY BE REQUIRED OUTSIDE OF THE VEGETATION REMOVAL LIMITS.
2. ALL PROJECT CONSTRUCTION ACTIVITIES IN WETLANDS (EXCLUDING VEGETATION REMOVAL) WILL BE CONTAINED WITHIN THE DEPICTED WORK PADS AND ACCESS ROADS.

**GENERAL NOTES**

1. THE LIMITS OF DISTURBANCE AS SHOWN DEFINE AREAS WHERE VEGETATION REMOVAL AND GRUBBING, GRADING, AND EXCAVATION MAY OCCUR. MINOR DEVIATIONS MAY BE REQUIRED IN SOME LOCATIONS.
2. ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH THE RELEVANT PORTIONS OF EVERSOURCE'S BMP MANUAL: CONNECTICUT CONSTRUCTION AND MAINTENANCE ENVIRONMENTAL REQUIREMENTS (BMP MANUAL), UNLESS MORE STRINGENT PROJECT-SPECIFIC MEASURES APPLY.
3. ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF REGULATORY APPROVALS FROM THE U.S. ARMY CORPS OF ENGINEERS AND THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, AND WITH ALL PROJECT PROTOCOLS.
4. EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION, AS REQUIRED, TO COMPLY WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, AND EVERSOURCE'S BMP MANUAL, AND APPLICABLE REGULATORY APPROVALS.
5. ALL TEMPORARY ACCESS ROADS IN UPLANDS ARE DEEMED TO BE PERMANENT UNLESS OTHERWISE NOTED
6. EXISTING CULVERTS WILL BE PROTECTED AS DEEMED NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION
7. WETLAND INVASIVE SPECIES CONTROL BMPs APPLY TO WORK WITHIN ALL WETLANDS WITH INVASIVE SPECIES. SEE DETAIL SHEET 2
8. VERNAL POOL BMPs ARE REQUIRED WITHIN INDICATED AREAS AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR. SEE DETAIL SHEET 3
9. RARE SPECIES AVOIDANCE AND MINIMIZATION MEASURES ARE REQUIRED WITHIN INDICATED AREAS. SEE DETAIL SHEET 4
10. FARMLAND PROTECTION MEASURES ARE REQUIRED WITHIN INDICATED AREAS. SEE DETAIL SHEET 5

STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
1A	FROST BRIDGE OH TRANSITION STRUCTURE	75	WEATHERING STEEL	DRILLED SHAFT
1B	FROST BRIDGE OH TRANSITION STRUCTURE	105	WEATHERING STEEL	DRILLED SHAFT
2	VERTICAL DEADEND	145	WEATHERING STEEL	DRILLED SHAFT
3080	VERTICAL DEADEND	150	WEATHERING STEEL	DRILLED SHAFT

**INDEX MAP**



**Legend**

- Proposed Structure
- ⊗ Structure to be Removed
- Existing Structure
- Existing Right-of-Way
- - - Proposed 115-kV Line (Centerline)
- - - Existing Transmission Line to be Removed
- 10' Contour Line
- - - 2' Contour Line
- Stonewall
- X=X Fence
- Gate
- Tree Line
- Vegetation Removal Limits
- - - Limit of Disturbance
- Railroad
- Designated Recreation Trail
- ▲ Trail Points
- Work Pad
- Existing Access Road
- Existing Alternate Access Road
- New Access Road
- New Alternate Access Road
- New Temporary Access Road
- Proposed Substation Expansion
- Culvert (center)
- Intermittent Watercourse
- Perennial Watercourse
- Ordinary High Water Mark
- Wetland Boundary
- Wetland Area
- Connecticut Wetlands Only
- Temporary Wetland Impact
- Permanent Wetland Impact
- Rare Species
- Vernal Pool
- Decoy Vernal Pool
- Highly Erodible Soils
- 100 Year Flood Zone
- Eversource Owned Property
- Parcel Boundary
- Municipal Boundary
- - - Map Sheet Matchline

Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet Feet 0 50 100

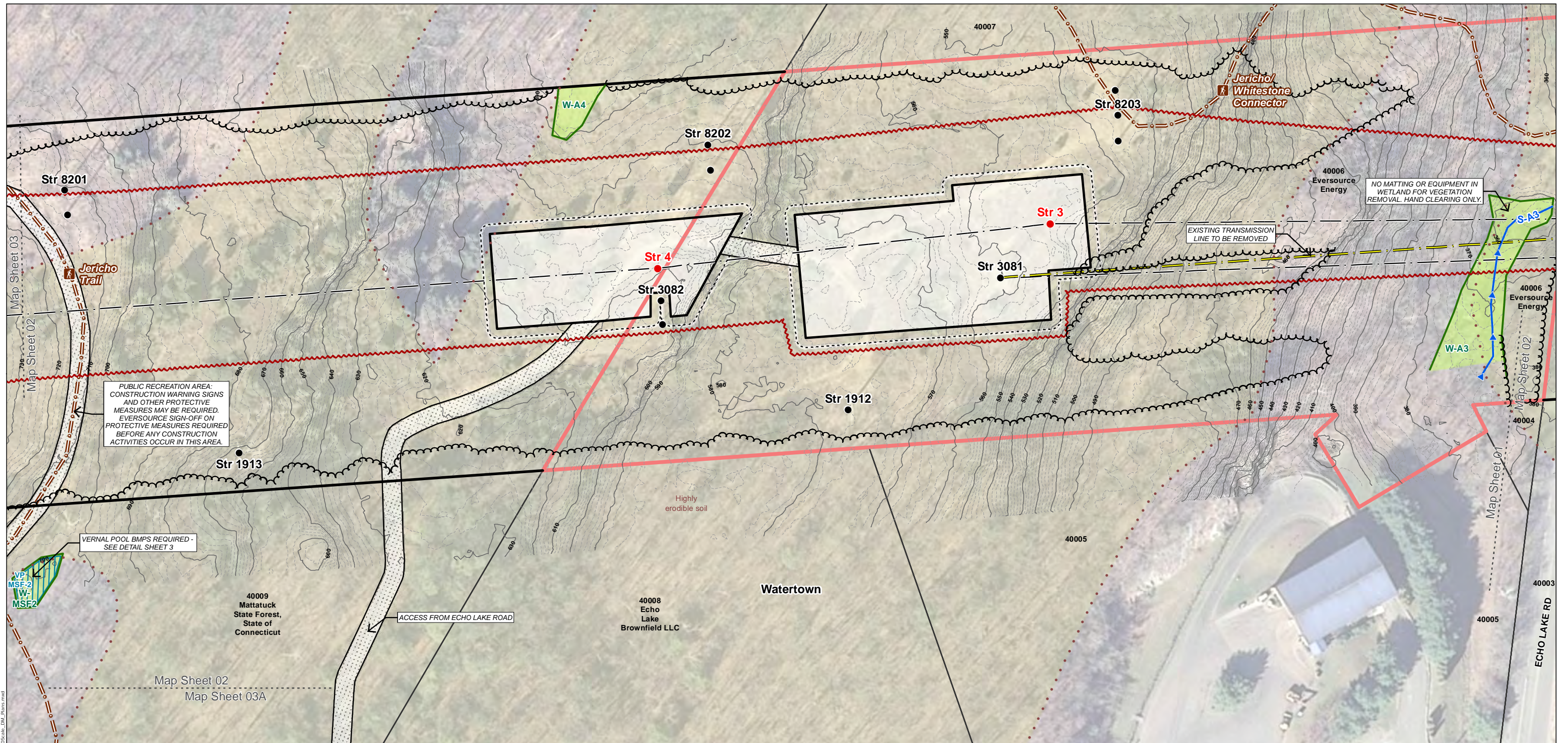


**Frost Bridge to Campville 115-kV Project Development & Management Plan**

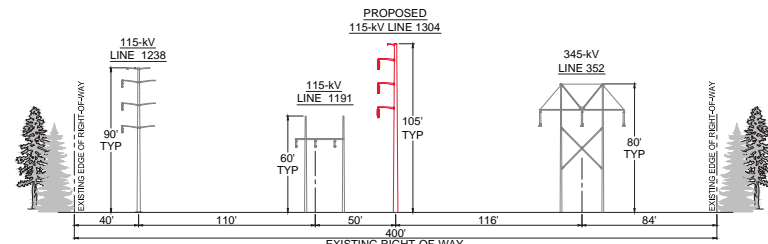
Watertown, CT Map Sheet 01 of 35  
Date: July, 2016 Map Author: N. Castro



NO.	DATE	REVISIONS	BY	CHK	APP	APP



XS-2 VIEW LOOKING WEST FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



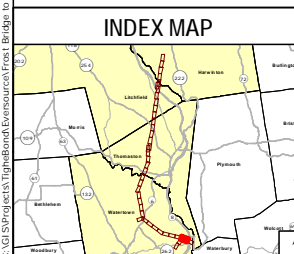
**WORK AREA BOUNDARIES IN / NEAR WETLANDS**

1. VEGETATION REMOVAL WILL OCCUR WITHIN THE VEGETATION REMOVAL LIMITS AS SHOWN, WITH TEMPORARY ACCESS ROUTES IN AND ACROSS WETLANDS AS NECESSARY UNLESS OTHERWISE NOTED. ADDITIONALLY, DANGER OR HAZARD TREE REMOVAL MAY BE REQUIRED OUTSIDE OF THE VEGETATION REMOVAL LIMITS.
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**GENERAL NOTES**

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8. VERNAL POOL BMPs ARE REQUIRED WITHIN INDICATED AREAS AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR. SEE DETAIL SHEET 3.
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10. FARMLAND PROTECTION MEASURES ARE REQUIRED WITHIN INDICATED AREAS. SEE DETAIL SHEET 5.

STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
3	VERTICAL DEADEND	100	WEATHERING STEEL	DRILLED SHAFT
4	VERTICAL STRAIN-BODY OF POLE	115	WEATHERING STEEL	DRILLED SHAFT



**Legend**

- Proposed Structure
- ✕ Structure to be Removed
- Existing Structure
- Existing Right-of-Way
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Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet Feet 0 50 100

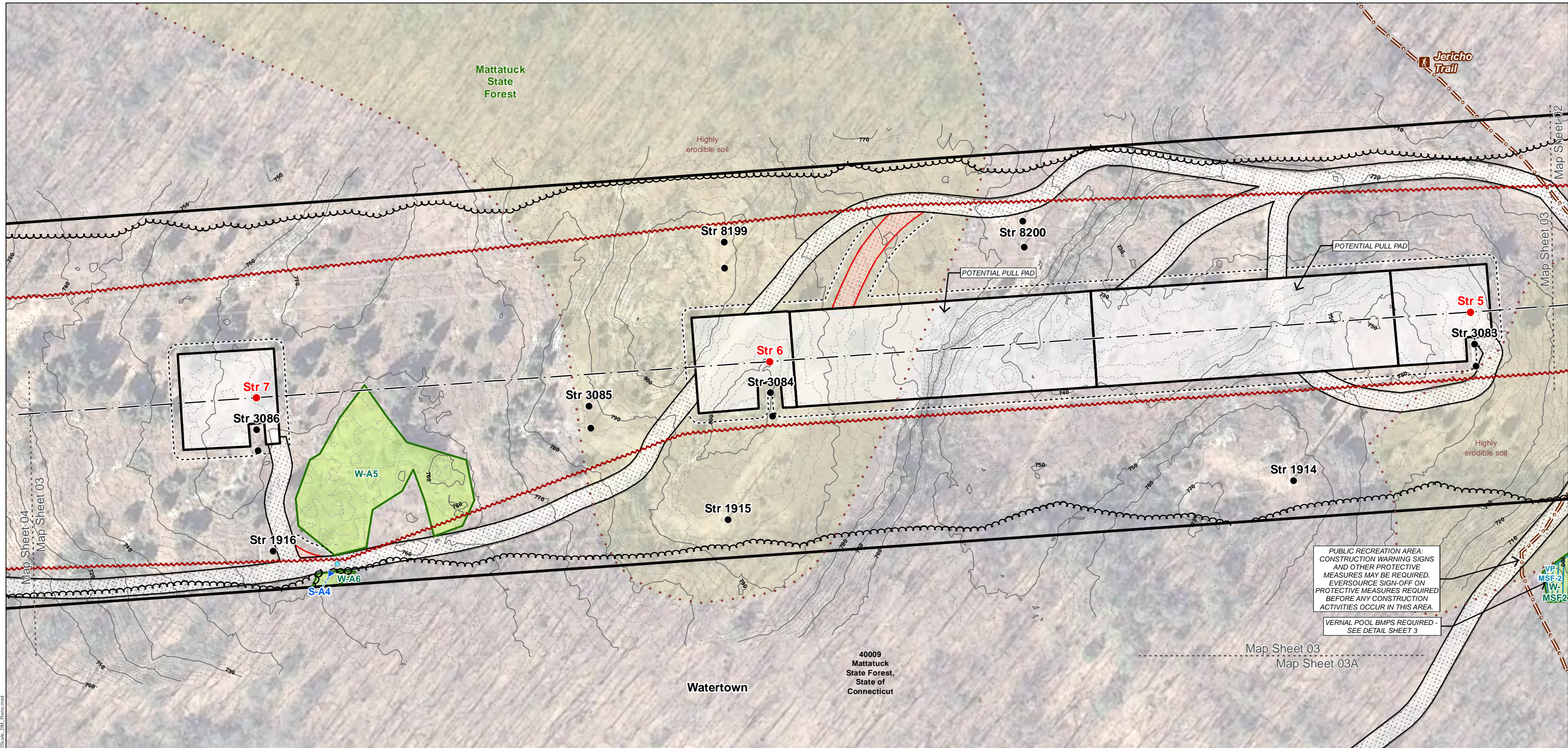
NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVSOURCE ENERGY**

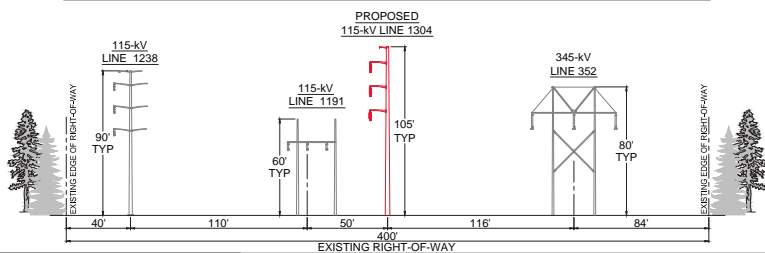
**Frost Bridge to Campville  
115-kV Project  
Development & Management Plan**

Watertown, CT      Map Sheet 02 of 35  
Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      ALL-POINTS TECHNOLOGY CORPORATION



XS-2 VIEW LOOKING WEST FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



**WORK AREA BOUNDARIES IN / NEAR WETLANDS**

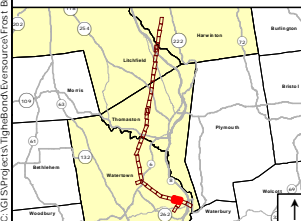
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6	VERTICAL TANGENT	98	WEATHERING STEEL	DIRECT EMBEDDED
7	VERTICAL TANGENT	107.5	WEATHERING STEEL	DIRECT EMBEDDED

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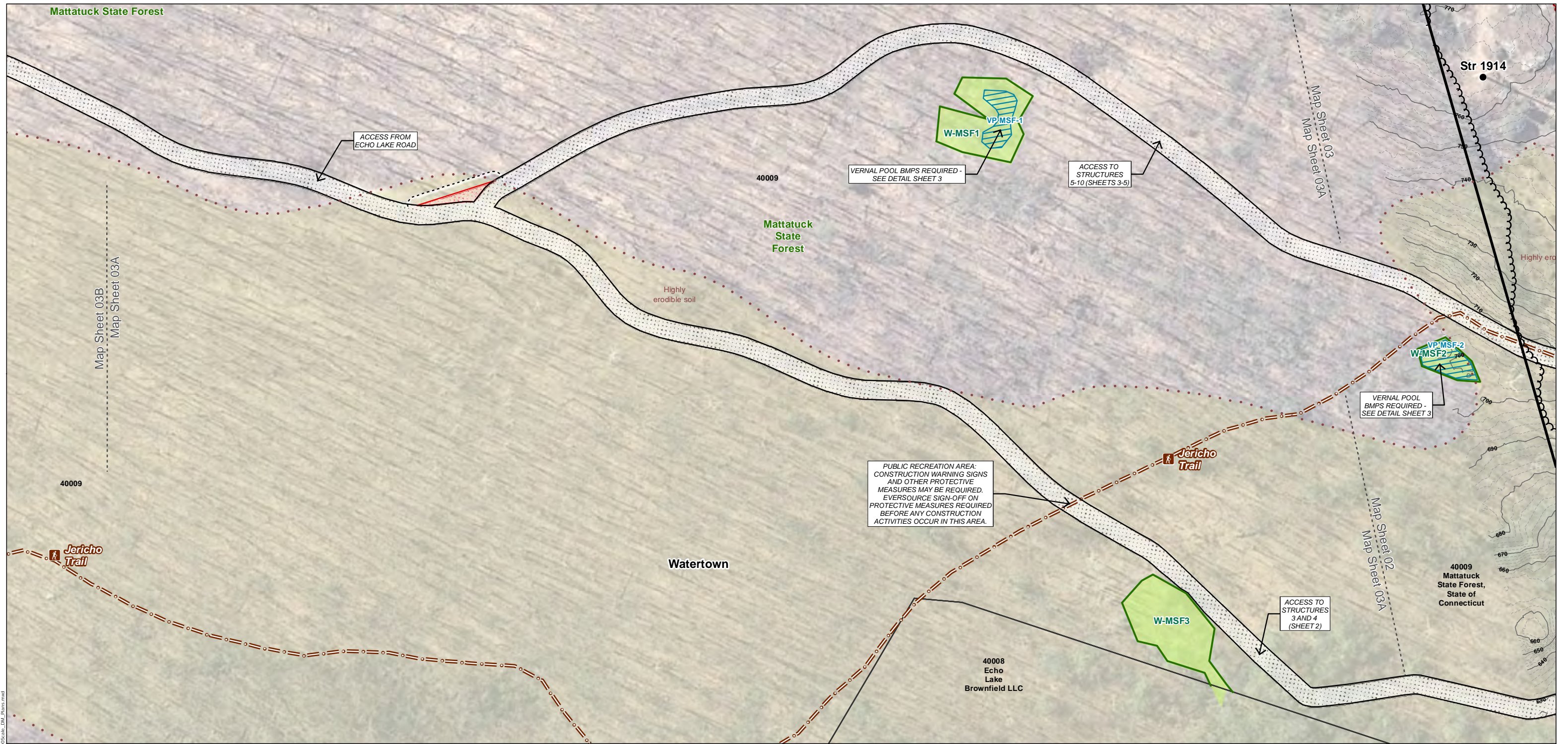


**Frost Bridge to Campville  
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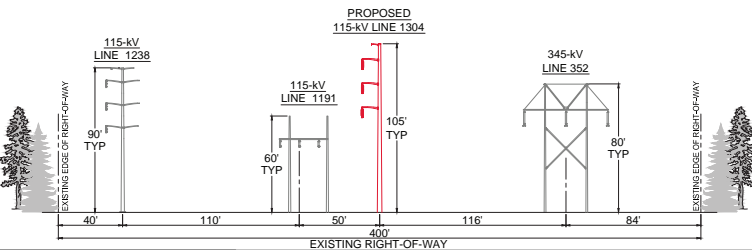
Watertown, CT      Map Sheet 03 of 35  
Date: July, 2016      Map Author: N. Castro



NO.	DATE	REVISIONS	BY	CHK	APP	APP



**XS-2 VIEW LOOKING WEST FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION**

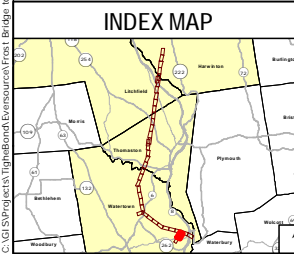


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NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVERSOURCE ENERGY**

**Frost Bridge to Campville  
115-kV Project  
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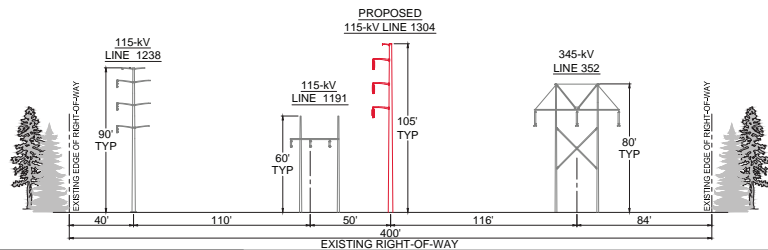
Watertown, CT	Map Sheet 03A of 35
Date: July, 2016	Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**





**XS-2 VIEW LOOKING WEST FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION**



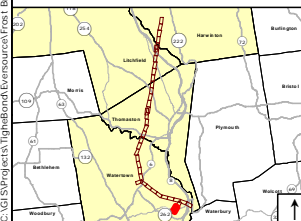
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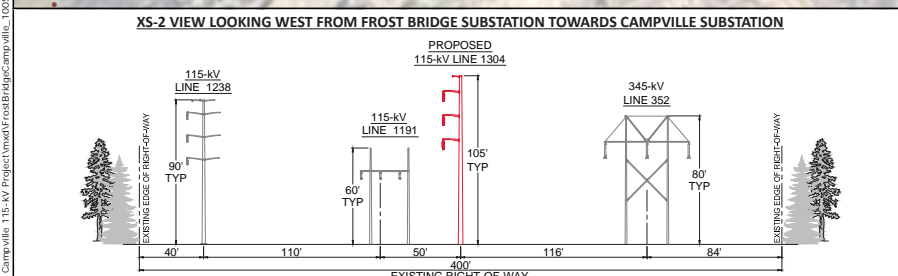
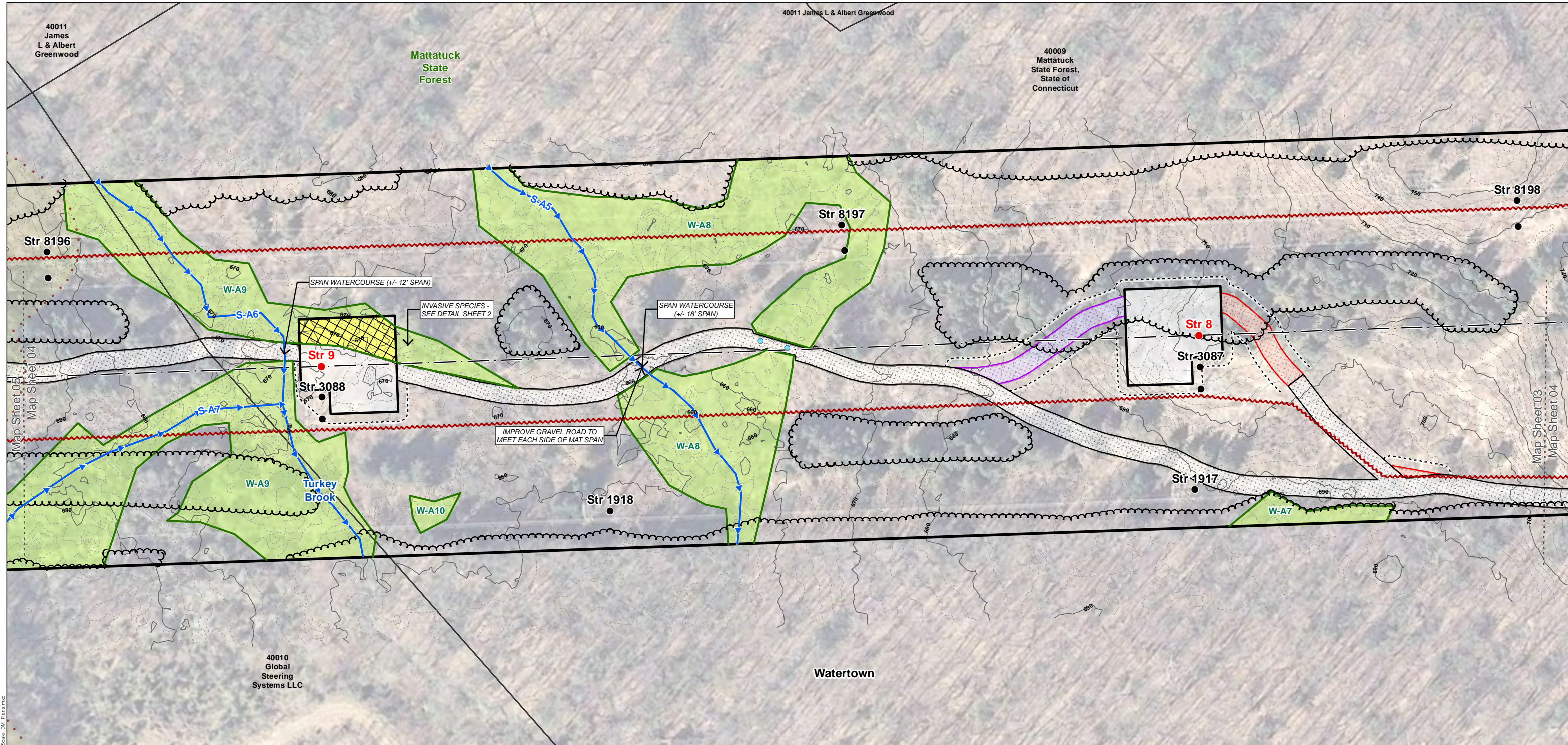
NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVSOURCE ENERGY**

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

Watertown, CT Map Sheet 03B of 35  
Date: July, 2016 Map Author: N. Castro





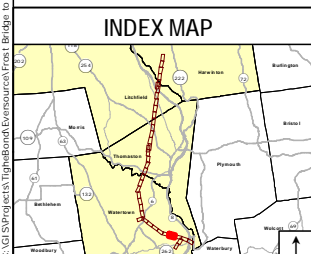
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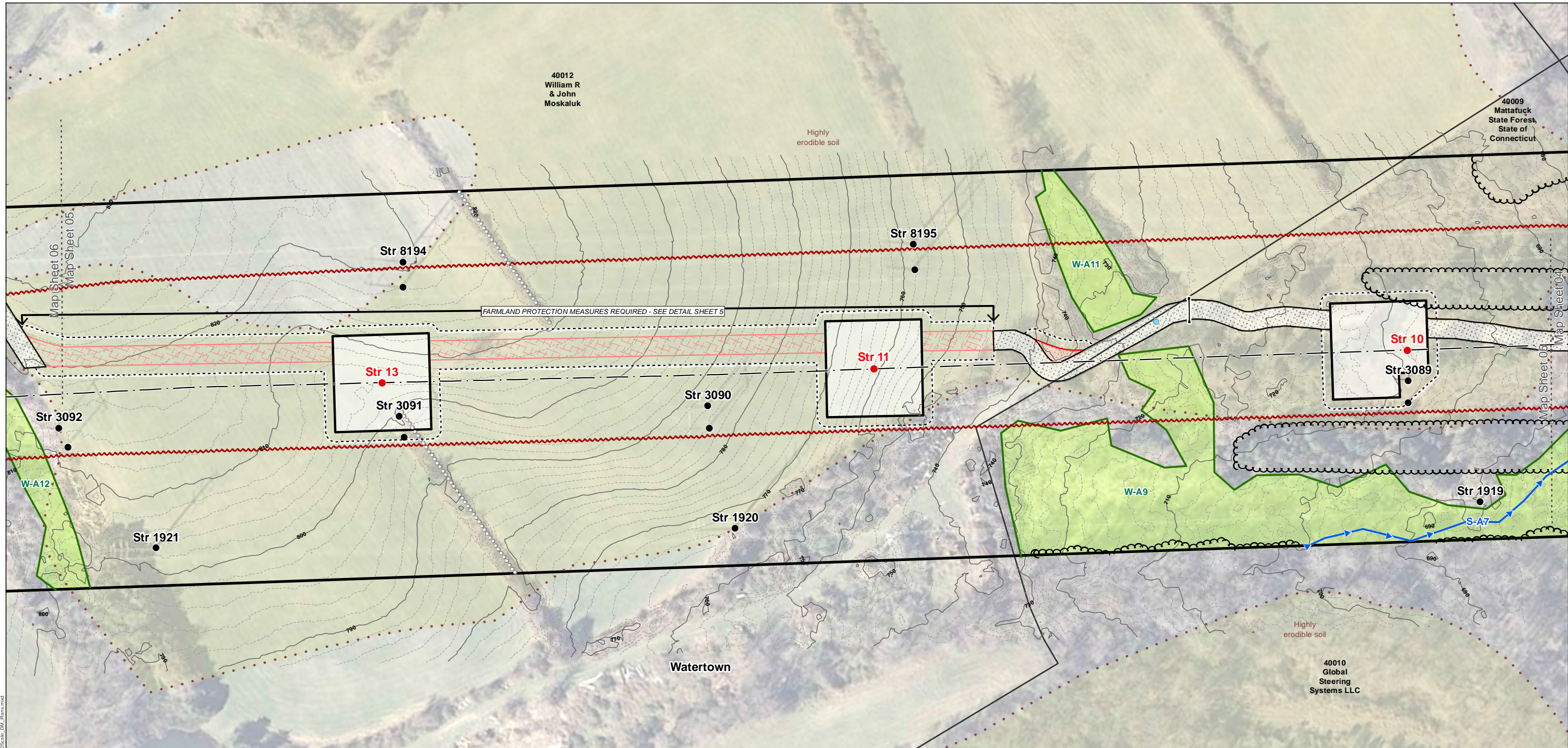
**Frost Bridge to Campville 115-kV Project Development & Management Plan**

Watertown, CT | Map Sheet 04 of 35  
 Date: July, 2016 | Map Author: N. Castro

**Tighe & Bond** | **ALL-POINTS TECHNOLOGY CORPORATION**

NO.	DATE	REVISIONS	BY	CHK	APP	APP

Base Map Source: 2012 Aerial Imagery (CTECO) | 1 inch = 100 feet | 0 50 100 Feet



XS-2 VIEW LOOKING WEST FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



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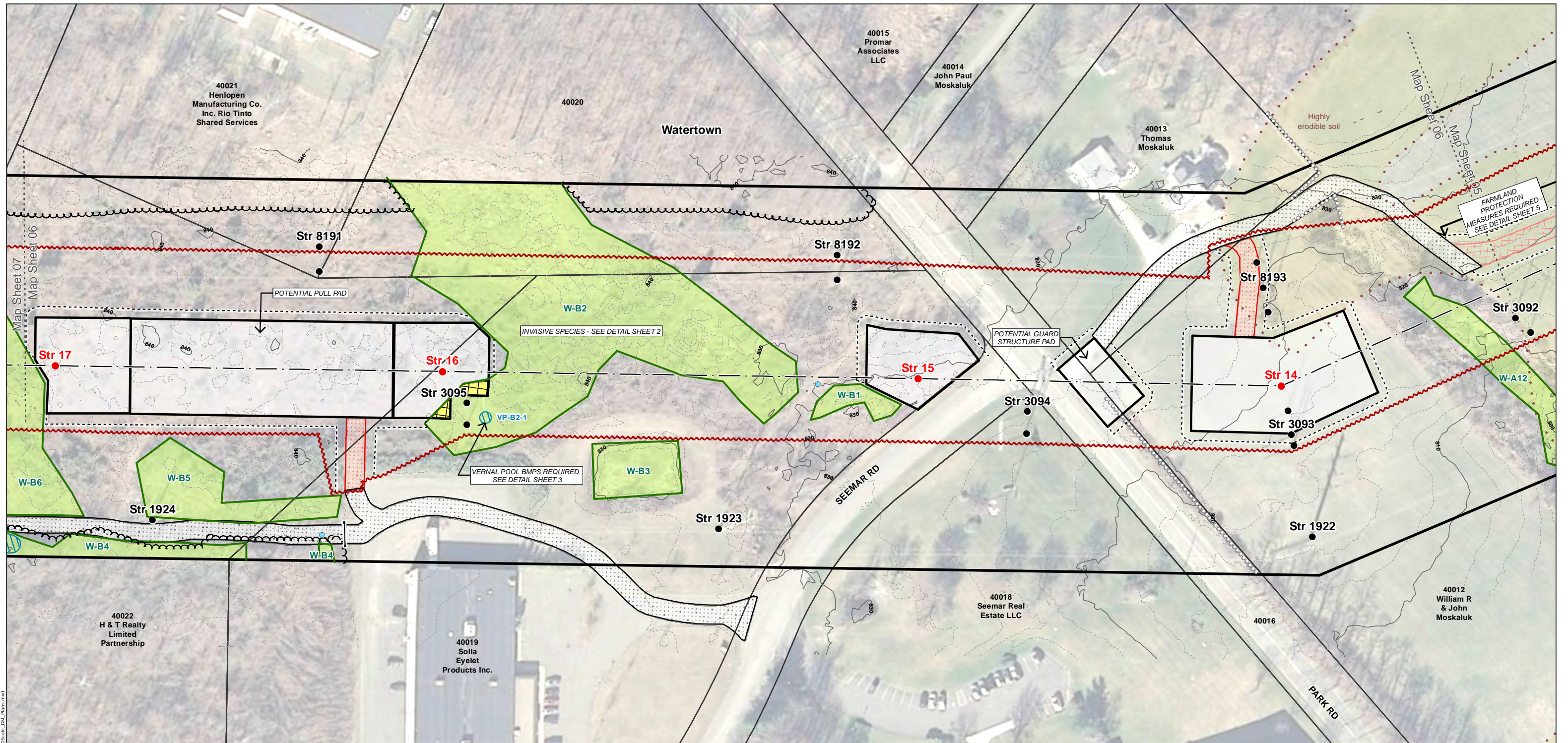
**EVSOURCE ENERGY**

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

Watertown, CT      Map Sheet 05 of 35

Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**

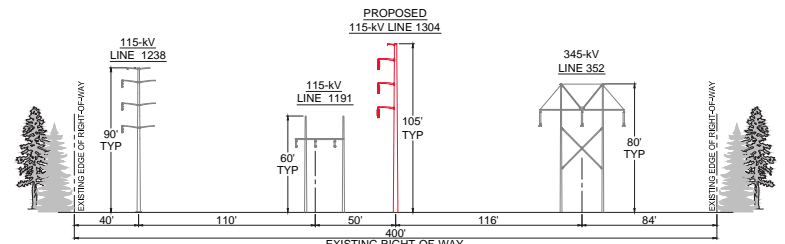


FARMLAND PROTECTION MEASURES REQUIRED - SEE DETAIL SHEET 5

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XS-2 VIEW LOOKING WEST FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
14	VERTICAL DEADEND	100	WEATHERING STEEL	DRILLED SHAFT
15	VERTICAL TANGENT	103	WEATHERING STEEL	DIRECT EMBEDDED
16	VERTICAL TANGENT	84	WEATHERING STEEL	DIRECT EMBEDDED
17	VERTICAL TANGENT	93.5	WEATHERING STEEL	DIRECT EMBEDDED

**INDEX MAP**



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- Temporary Wetland Impact
- Permanent Wetland Impact
- Rare Species
- Vernal Pool
- Decoy Vernal Pool
- Highly Erodible Soils
- 100 Year Flood Zone
- Eversource Owned Property
- Parcel Boundary
- Municipal Boundary
- Map Sheet Matchline

Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet Feet 0 50 100

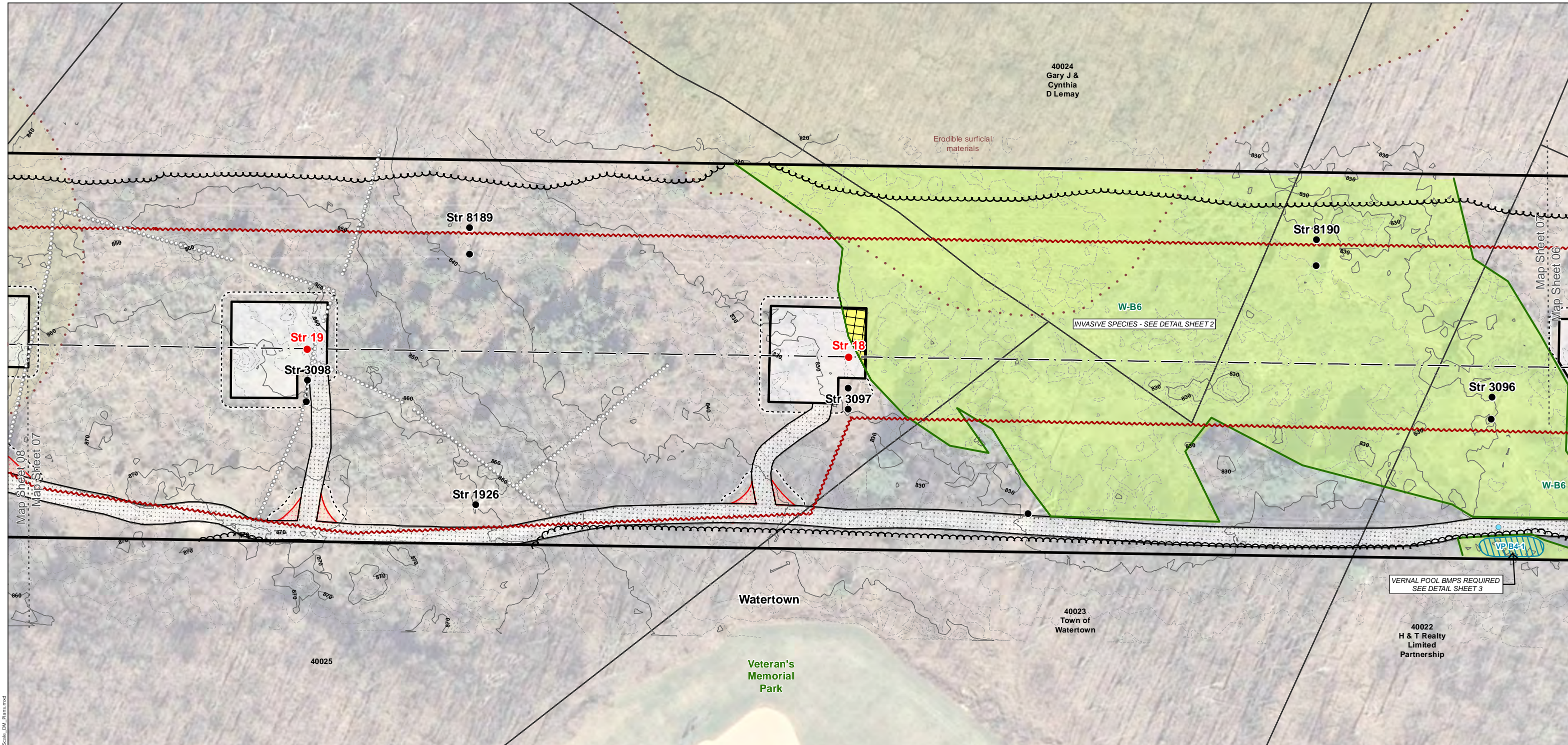
NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVERSOURCE ENERGY**

**Frost Bridge to Campville  
115-kV Project  
Development & Management Plan**

Watertown, CT	Map Sheet 06 of 35
Date: July, 2016	Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**

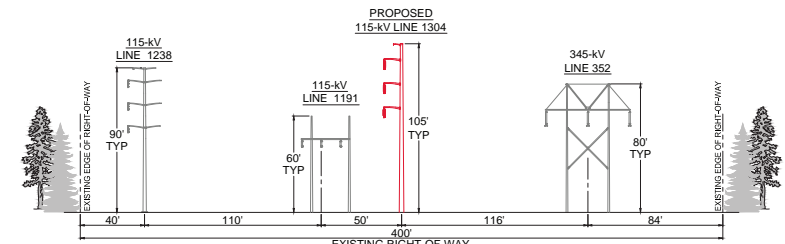


40024  
Gary J &  
Cynthia  
D Lemay

VERNAL POOL BMPs REQUIRED  
SEE DETAIL SHEET 3

40022  
H & T Realty  
Limited  
Partnership

XS-2 VIEW LOOKING WEST FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



**WORK AREA BOUNDARIES IN / NEAR WETLANDS**

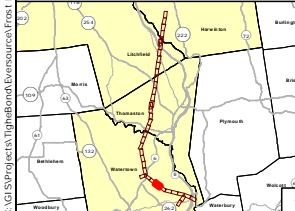
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
18	VERTICAL TANGENT	120	WEATHERING STEEL	DRILLED SHAFT
19	VERTICAL TANGENT	84	WEATHERING STEEL	DIRECT EMBEDDED

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Base Map Source:  
2012 Aerial  
Imagery (CTECO) 0 50 100 Feet



**EVERSOURCE**  
ENERGY

**Frost Bridge to Campville  
115-kV Project  
Development & Management Plan**

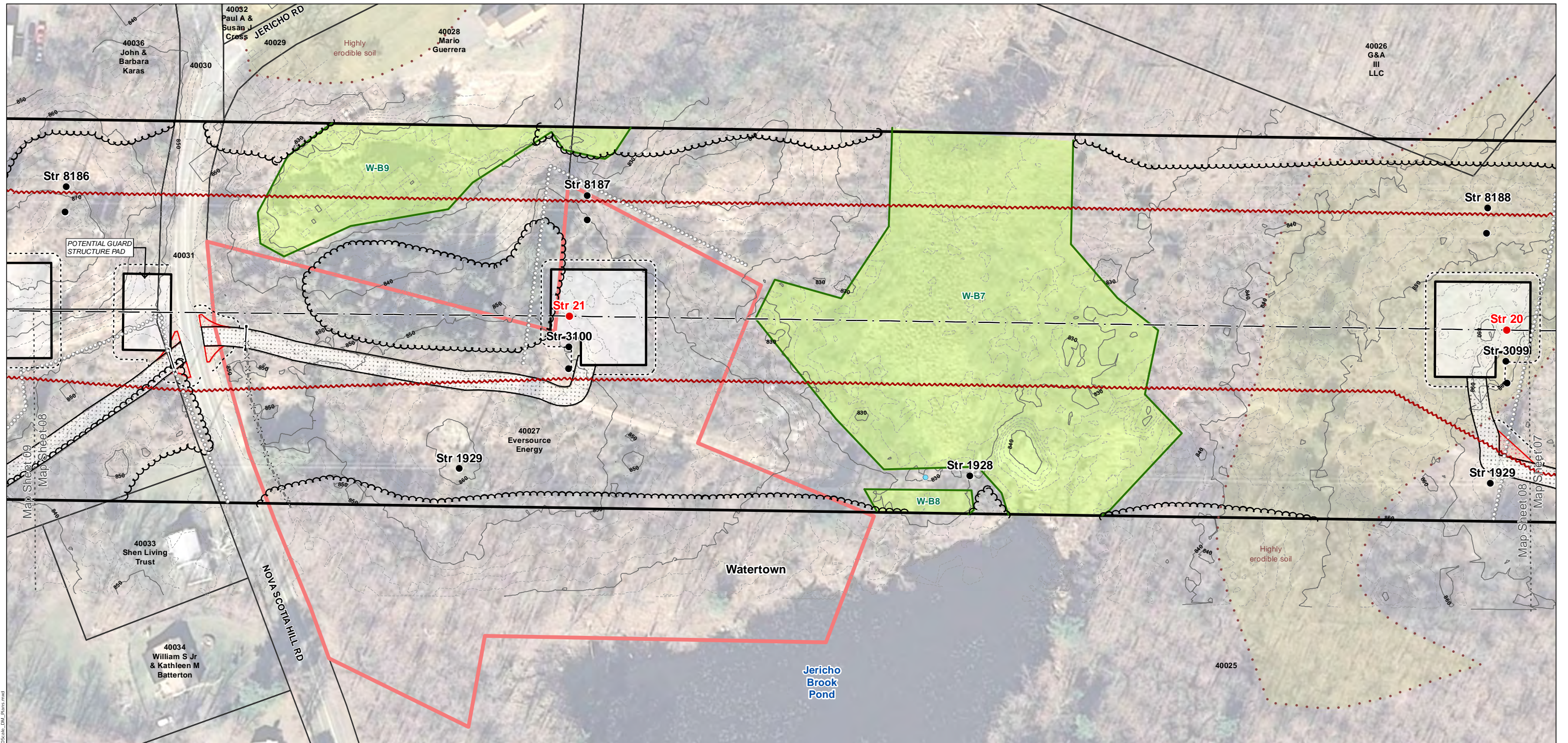
Watertown, CT      Map Sheet 07 of 35  
Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**

**ALL-POINTS**  
TECHNOLOGY CORPORATION

NO.	DATE	REVISIONS	BY	CHK	APP	APP

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40026  
G&A  
III  
LLC

Str 8186

POTENTIAL GUARD  
STRUCTURE PAD

Str 1929

40033  
Shen Living  
Trust

40034  
William S Jr  
& Kathleen M  
Batterton

40032  
Paul A &  
Susan J  
Cross

W-B9

Str 8187

Str 21

Str 3100

40027  
Eversource  
Energy

Watertown

Jericho  
Brook  
Pond

Str 1928

W-B8

W-B7

Str 8188

Str 20

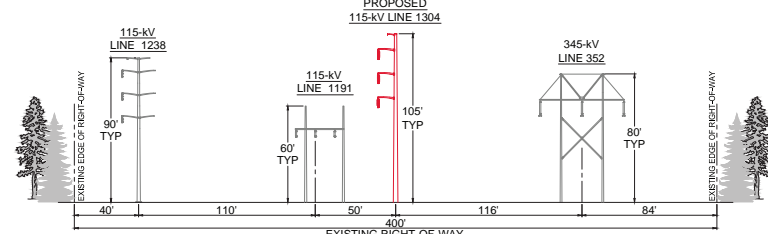
Str 3099

Str 1929

Highly  
erodible soil

40025

XS-2 VIEW LOOKING WEST FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



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20	VERTICAL TANGENT	103	WEATHERING STEEL	DIRECT EMBEDDED
21	VERTICAL TANGENT	125	WEATHERING STEEL	DRILLED SHAFT

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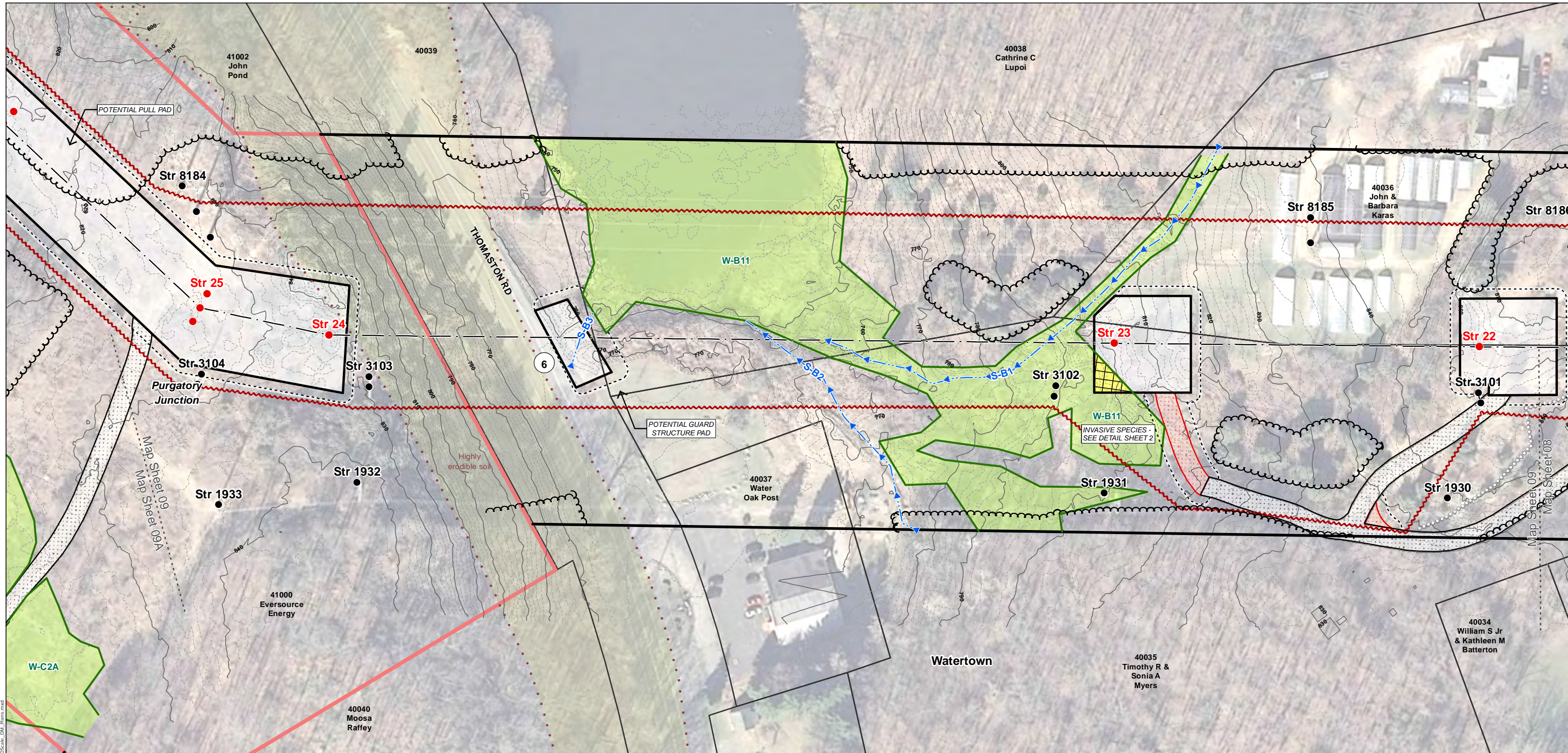
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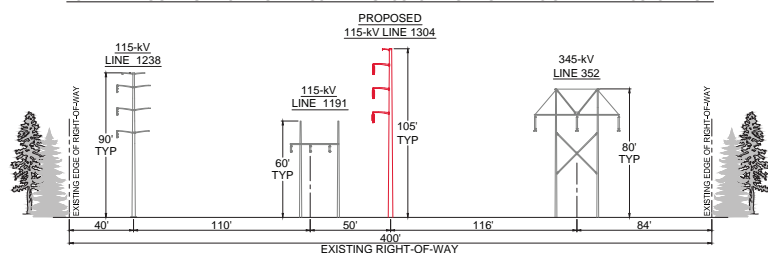
**Frost Bridge to Campville  
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Watertown, CT      Map Sheet 08 of 35  
Date: July, 2016      Map Author: N. Castro





XS-2 VIEW LOOKING WEST FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



**WORK AREA BOUNDARIES IN / NEAR WETLANDS**

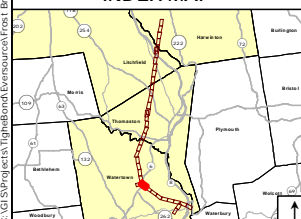
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23	VERTICAL TANGENT	120	WEATHERING STEEL	DRILLED SHAFT
24	VERTICAL STRAIN-BODY OF POLE	75	WEATHERING STEEL	DRILLED SHAFT
25	3 POLE ANGLE DEADEND	45	WEATHERING STEEL	DRILLED SHAFT

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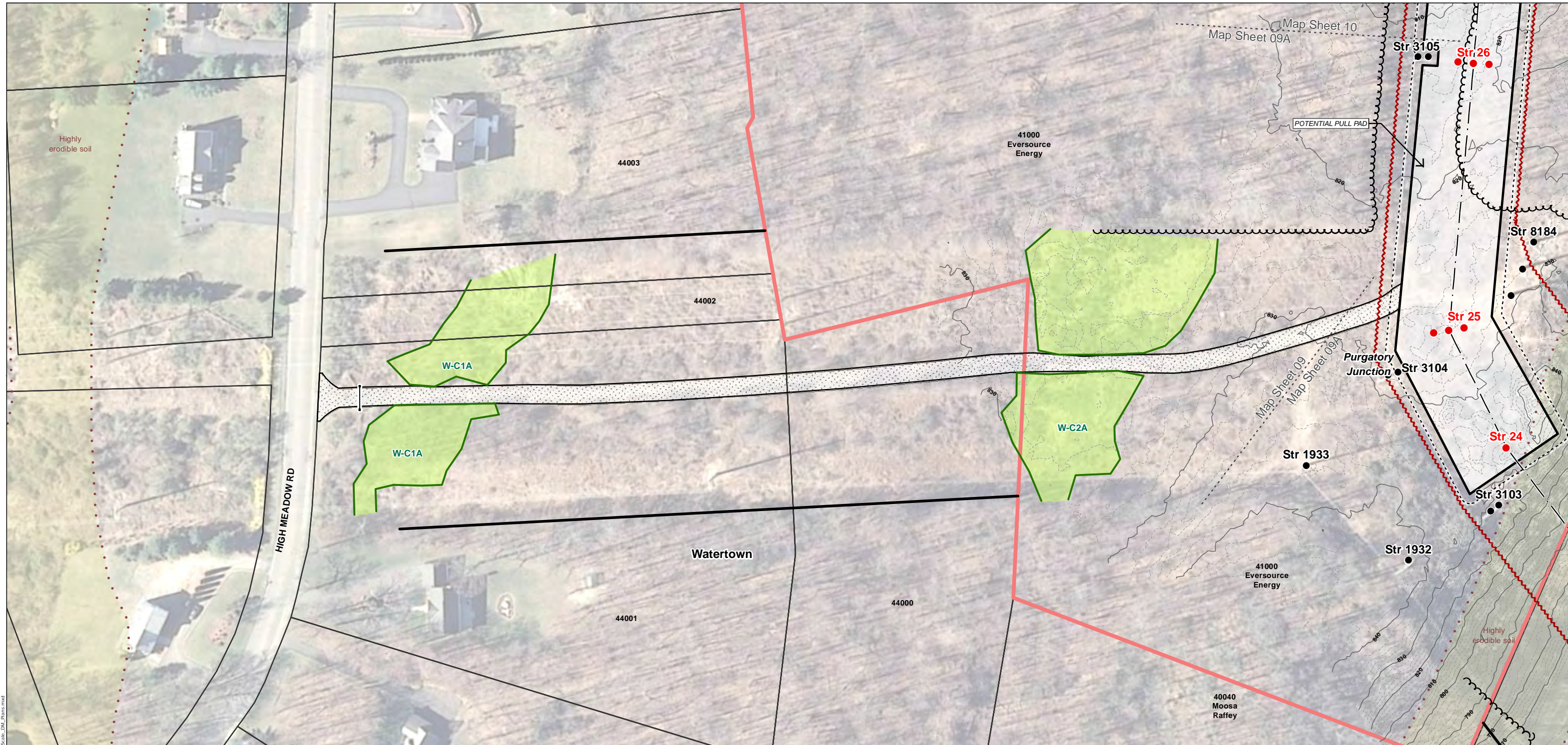


**Frost Bridge to Campville 115-kV Project Development & Management Plan**

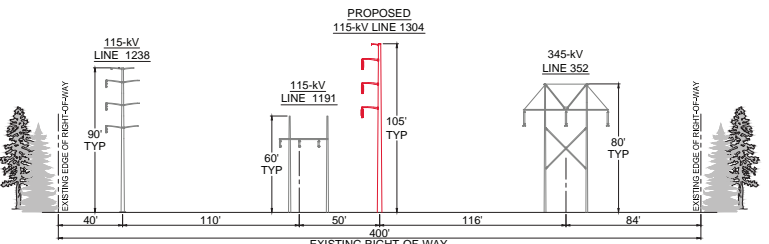
Watertown, CT Map Sheet 09 of 35  
Date: July, 2016 Map Author: N. Castro



NO.	DATE	REVISIONS	BY	CHK	APP	APP



**XS-2 VIEW LOOKING WEST FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION**



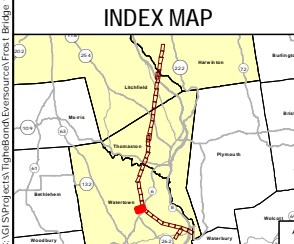
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25	3 POLE ANGLE DEADEND	45	WEATHERING STEEL	DRILLED SHAFT
26	3 POLE ANGLE DEADEND	70	WEATHERING STEEL	DRILLED SHAFT



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**EVSOURCE ENERGY**

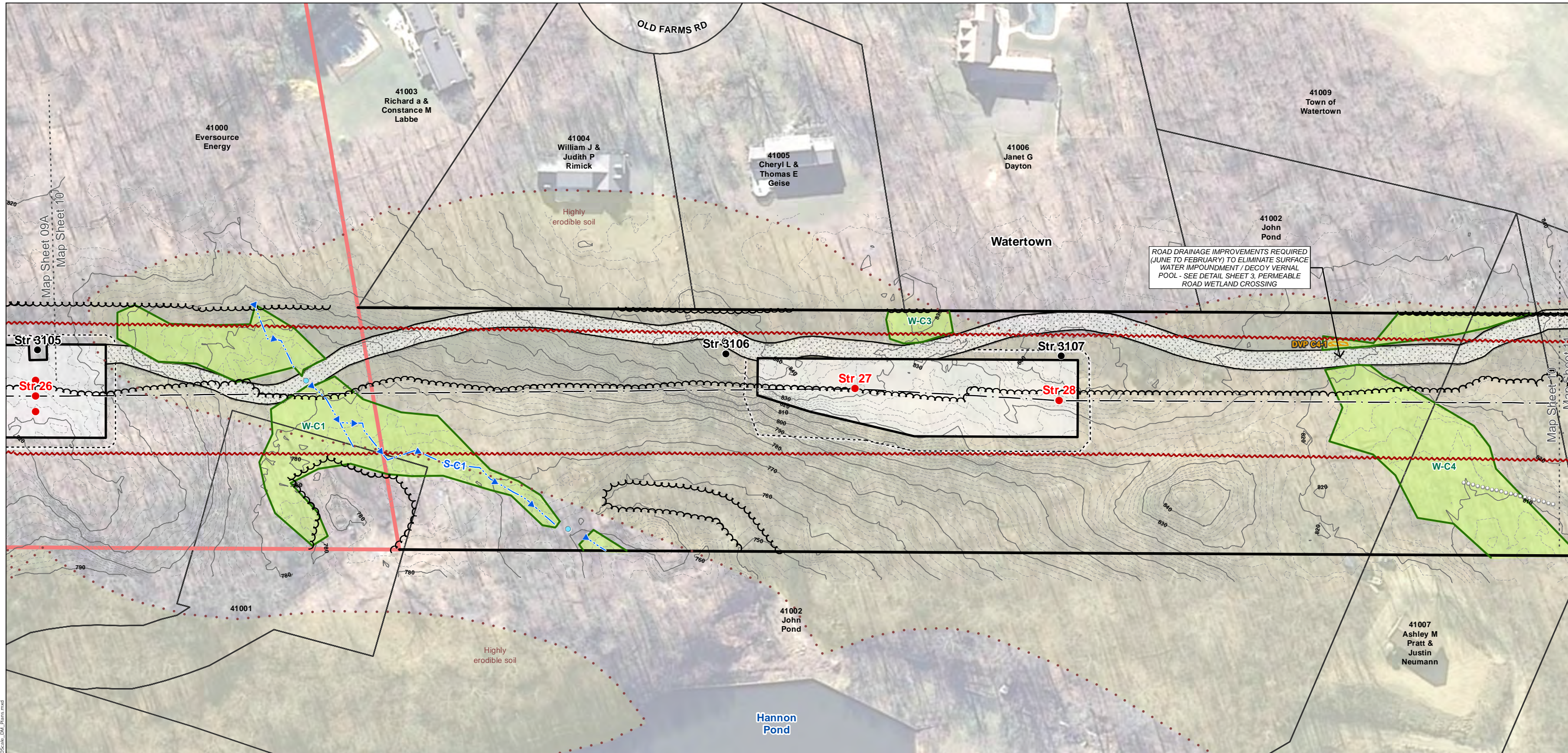
**Frost Bridge to Campville 115-kV Project Development & Management Plan**

Watertown, CT | Map Sheet 09A of 35  
 Date: July, 2016 | Map Author: N. Castro

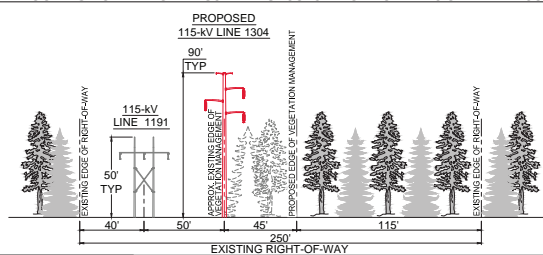
**Tighe & Bond** | **ALL-POINTS TECHNOLOGY CORPORATION**

Base Map Source: 2012 Aerial Imagery (CTECO) 0 1 inch = 100 feet 0 50 100 Feet





XS-3 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



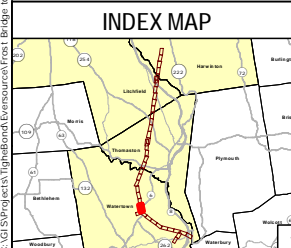
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
26	3 POLE ANGLE DEADEND	70	WEATHERING STEEL	DRILLED SHAFT
27	VERTICAL STRAIN	95	WEATHERING STEEL	DRILLED SHAFT
28	DELTA STRAIN	80	WEATHERING STEEL	DRILLED SHAFT



**Legend**

- Proposed Structure
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- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
- Existing Transmission Line to be Removed
- 10' Contour Line
- 2' Contour Line
- Stonewall
- Fence
- Gate
- Tree Line
- Vegetation Removal Limits
- Limit of Disturbance
- Railroad
- Designated Recreation Trail
- Trail Points
- Work Pad
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- New Temporary Access Road
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- Culvert (center)
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- Ordinary High Water Mark
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- Temporary Wetland Impact
- Permanent Wetland Impact
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- Highly Erodible Soils
- 100 Year Flood Zone
- Eversource Owned Property
- Parcel Boundary
- Municipal Boundary
- Map Sheet Matchline

Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet Feet 0 50 100

NO.	DATE	REVISIONS	BY	CHK	APP	APP

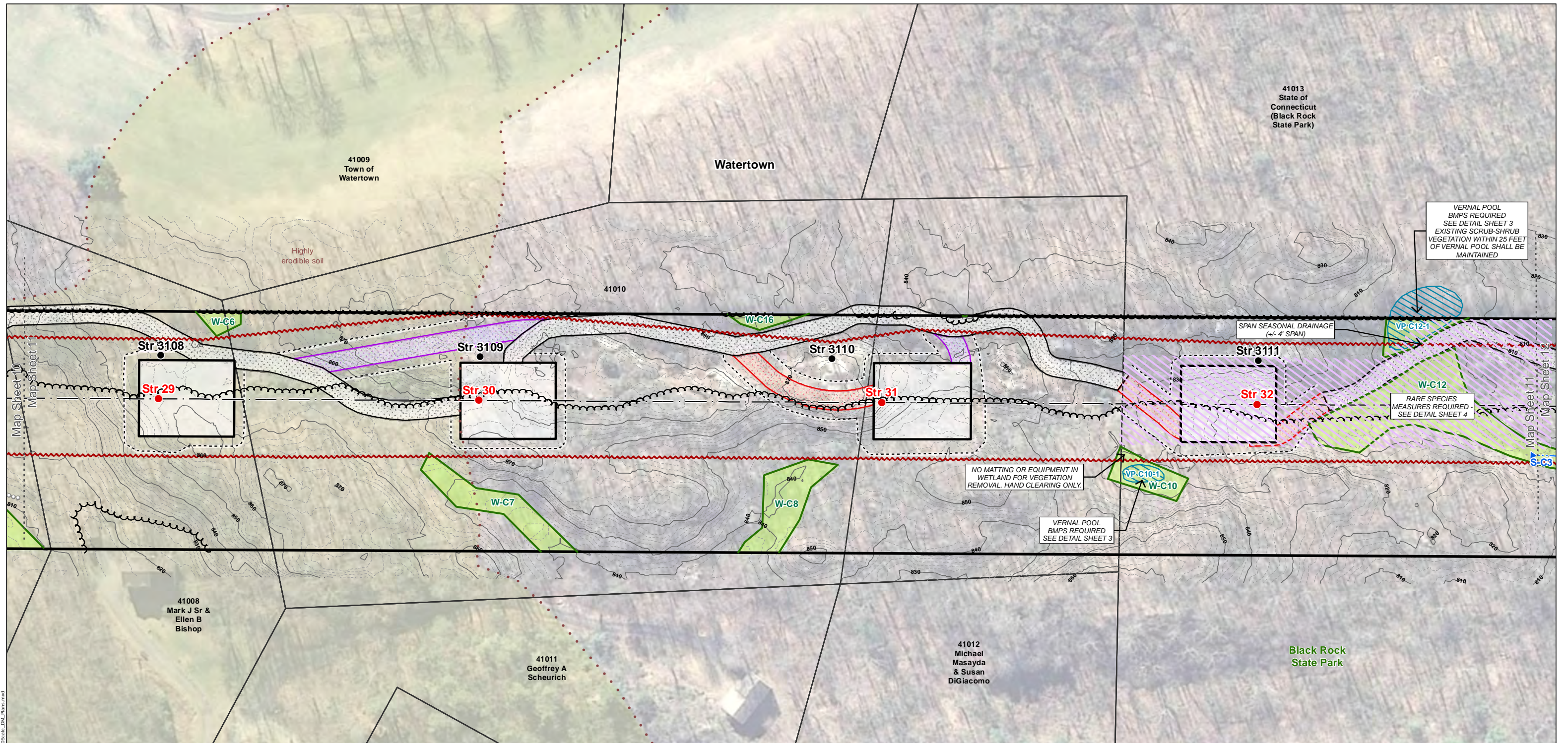
**EVERSOURCE ENERGY**

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

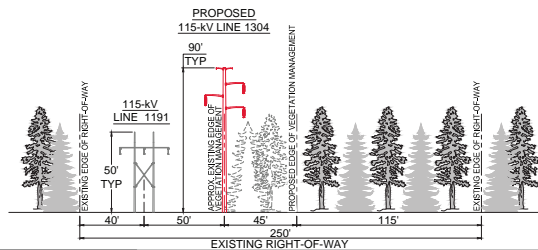
Watertown, CT      Map Sheet 10 of 35

Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**



XS-3 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



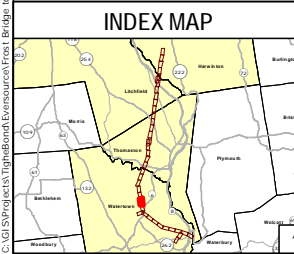
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30	DELTA TANGENT	88.5	WEATHERING STEEL	DIRECT EMBEDDED
31	DELTA TANGENT	79	WEATHERING STEEL	DIRECT EMBEDDED
32	DELTA TANGENT	88.5	WEATHERING STEEL	DIRECT EMBEDDED



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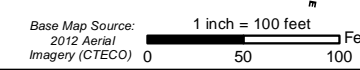
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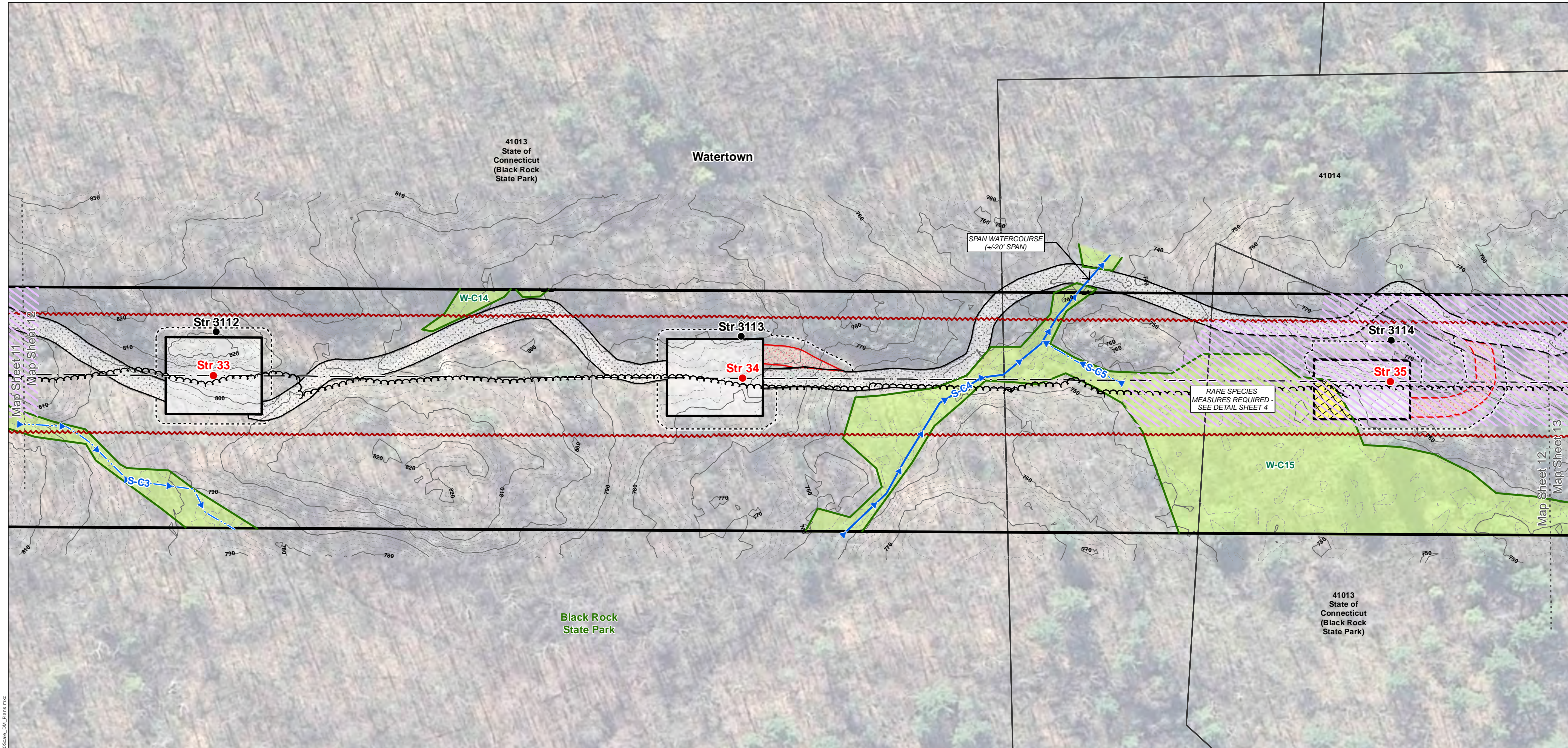
Watertown, CT      Map Sheet 11 of 35

Date: July, 2016      Map Author: N. Castro

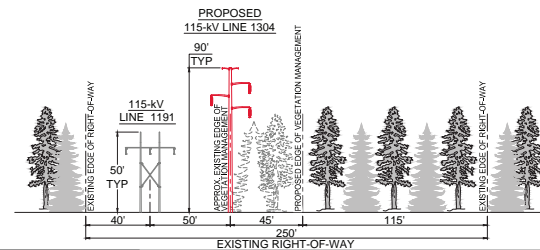
**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**



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**XS-3 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION**



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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
33	DELTA TANGENT	88.5	WEATHERING STEEL	DIRECT EMBEDDED
34	DELTA TANGENT	98	WEATHERING STEEL	DIRECT EMBEDDED
35	DELTA TANGENT	88.5	WEATHERING STEEL	DIRECT EMBEDDED

**INDEX MAP**



**Legend**

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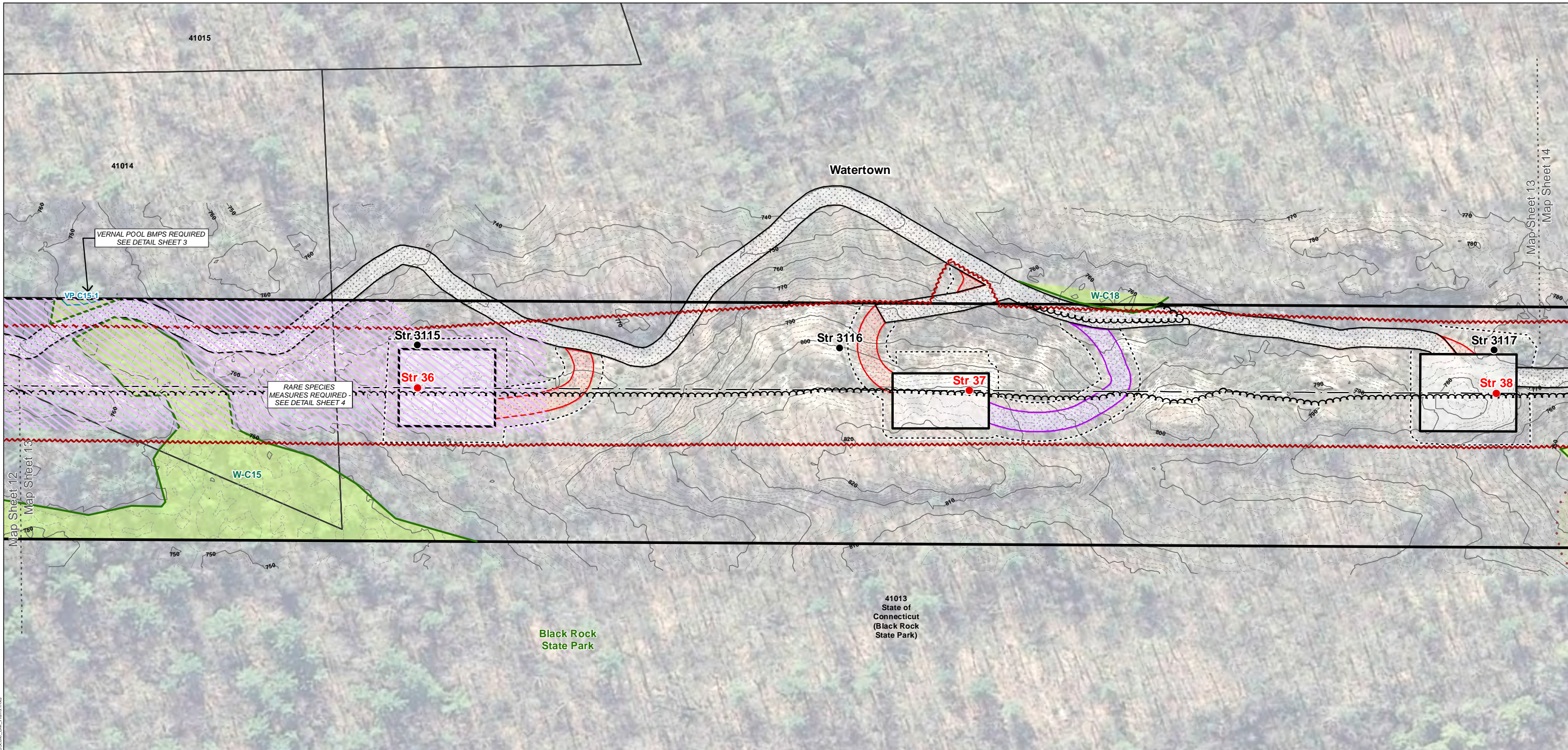
Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet Feet

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

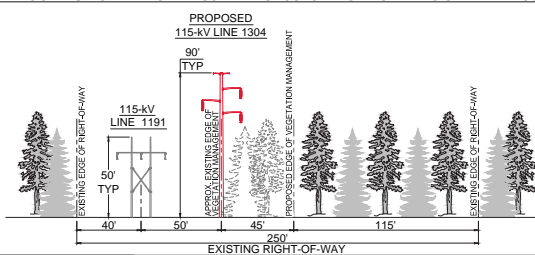
Watertown, CT      Map Sheet 12 of 35

Date: July, 2016      Map Author: N. Castro

NO.	DATE	REVISIONS	BY	CHK	APP	APP



XS-3 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



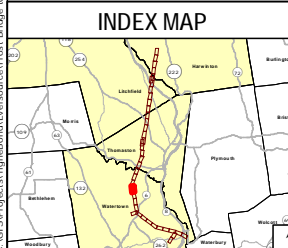
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37	DELTA TANGENT	88.5	WEATHERING STEEL	DIRECT EMBEDDED
38	DELTA TANGENT	107.5	WEATHERING STEEL	DIRECT EMBEDDED



**Legend**

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Base Map Source: 2012 Aerial Imagery (CTECO) 0 50 100 Feet  
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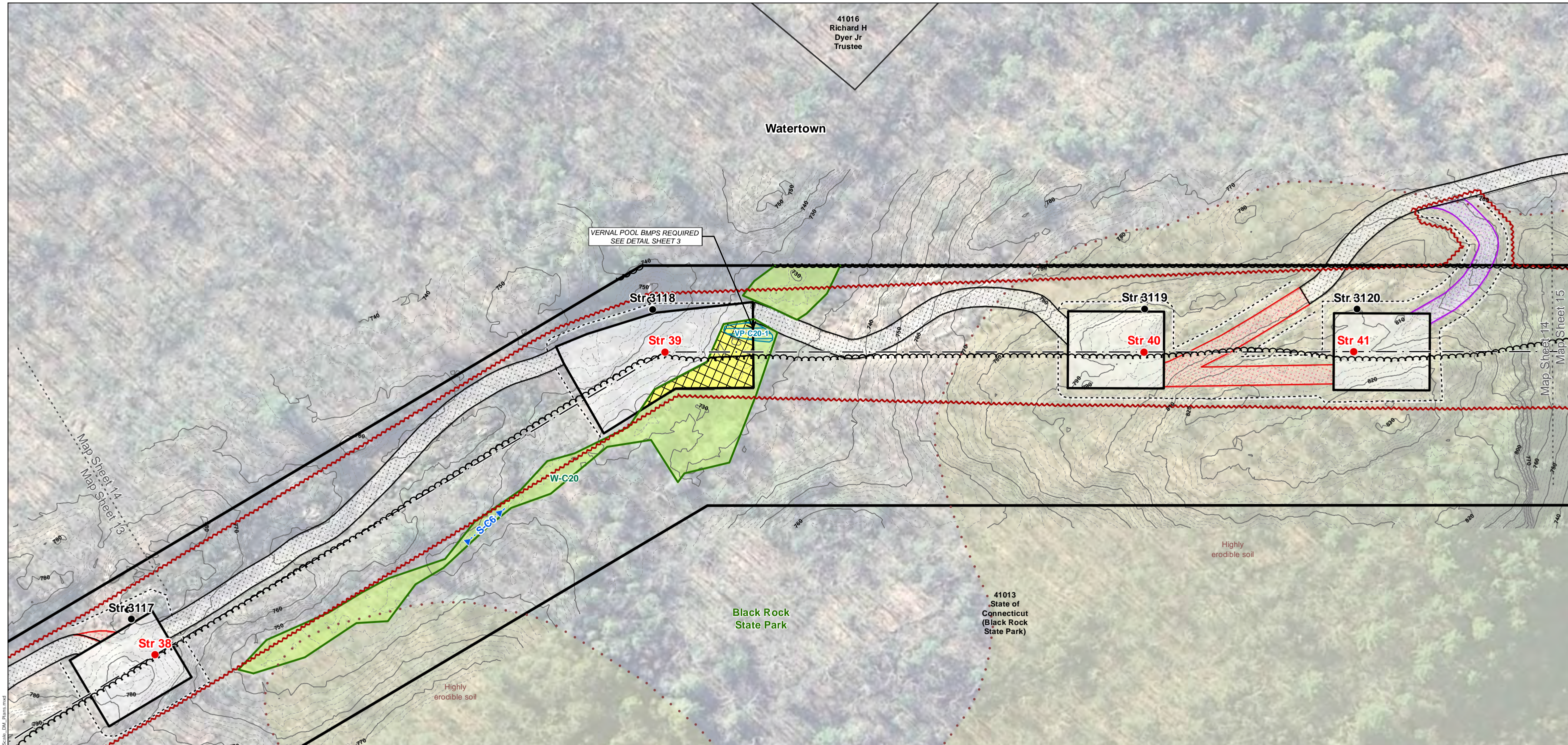
NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVSOURCE ENERGY**

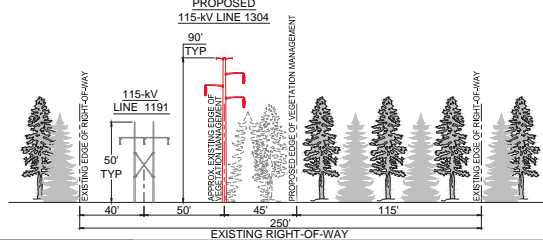
**Frost Bridge to Campville  
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Development & Management Plan**

Watertown, CT	Map Sheet 13 of 35
Date: July, 2016	Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**



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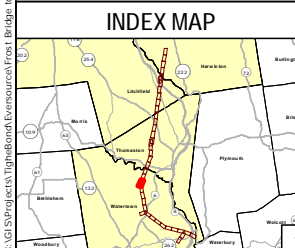
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39	VERTICAL DEADEND	105	WEATHERING STEEL	DRILLED SHAFT
40	DELTA TANGENT	79	WEATHERING STEEL	DIRECT EMBEDDED
41	DELTA TANGENT	84	WEATHERING STEEL	DIRECT EMBEDDED



**Legend**

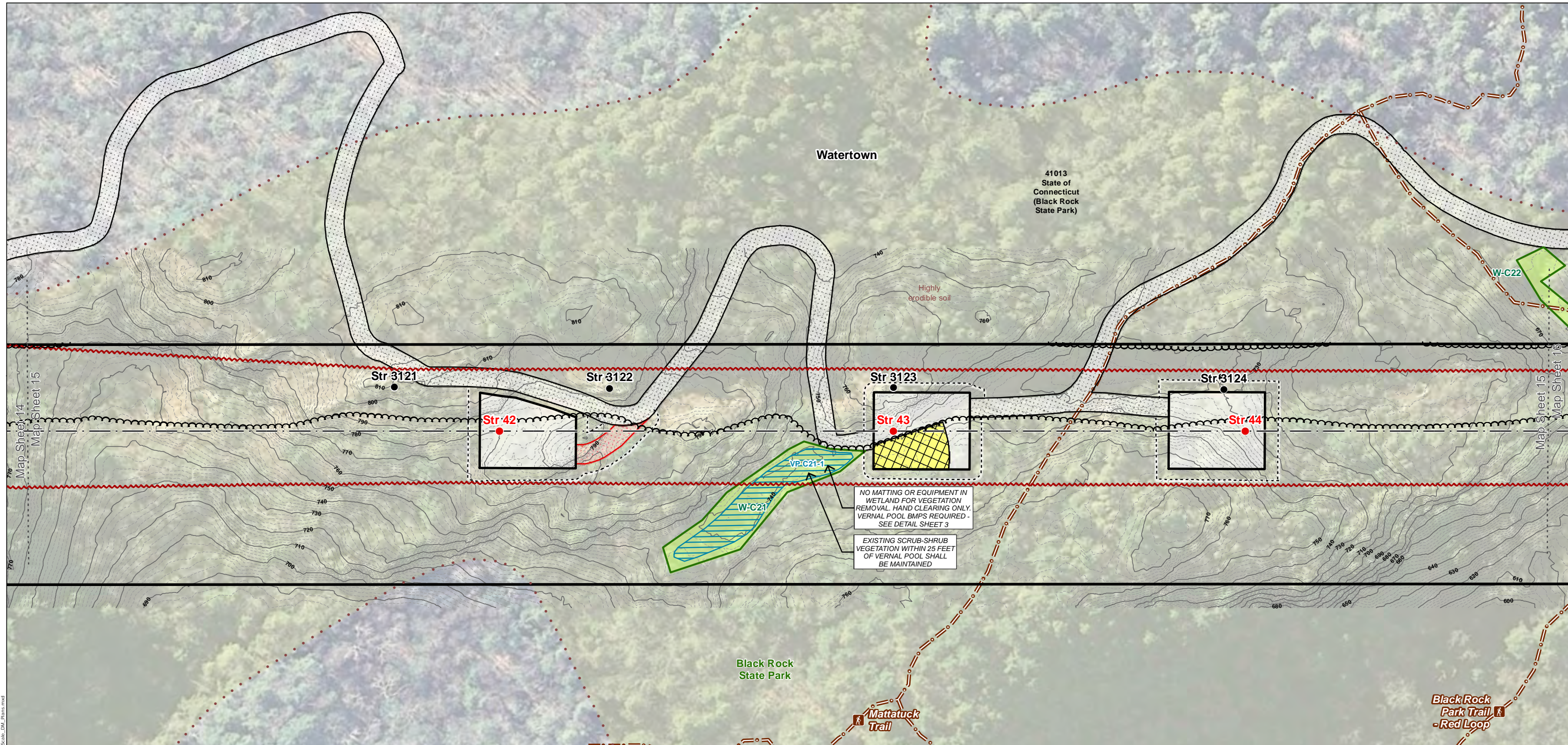
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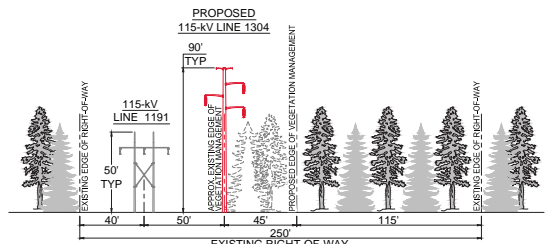
**Frost Bridge to Campville  
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Watertown, CT      Map Sheet 14 of 35  
Date: July, 2016      Map Author: N. Castro

NO.	DATE	REVISIONS	BY	CHK	APP	APP



XS-3 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



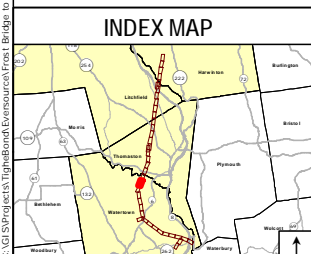
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
42	DELTA TANGENT	103	WEATHERING STEEL	DIRECT EMBEDDED
43	DELTA TANGENT	107.5	WEATHERING STEEL	DIRECT EMBEDDED
44	DELTA TANGENT	84	WEATHERING STEEL	DIRECT EMBEDDED



**Legend**

- Proposed Structure (Red dot)
- Structure to be Removed (Yellow square)
- Existing Structure (Black dot)
- Existing Right-of-Way (Black line)
- Proposed 115-kV Line (Centerline) (Dashed line)
- Existing Transmission Line to be Removed (Dotted line)
- 10' Contour Line (Dashed line)
- 2' Contour Line (Dotted line)
- Stonewall (Circle with cross)
- Fence (X-X)
- Gate (Line with crossbar)
- Tree Line (Wavy line)
- Vegetation Removal Limits (Red wavy line)
- Limit of Disturbance (Dashed line)
- Railroad (Line with cross-ticks)
- Designated Recreation Trail (Dashed line with cross-ticks)
- Trail Points (Red square)
- Work Pad (Black rectangle)
- Existing Access Road (Dotted line)
- Existing Alternate Access Road (Dashed line)
- New Access Road (Red line)
- New Alternate Access Road (Dashed red line)
- New Temporary Access Road (Red line with cross-ticks)
- Proposed Substation Expansion (Blue rectangle)
- Culvert (center) (Blue circle)
- Intermittent Watercourse (Blue line with wavy dashes)
- Perennial Watercourse (Blue line with wavy dashes)
- Ordinary High Water Mark (Blue line with wavy dashes)
- Wetland Boundary (Blue line)
- Wetland Area (Green area)
- Connecticut Wetlands Only (Blue area)
- Temporary Wetland Impact (Yellow hatched area)
- Permanent Wetland Impact (Red hatched area)
- Rare Species (Blue hatched area)
- Vernal Pool (Blue hatched area)
- Decoy Vernal Pool (Blue hatched area)
- Highly Erodible Soils (Yellow hatched area)
- 100 Year Flood Zone (Blue hatched area)
- Eversource Owned Property (Red outline)
- Parcel Boundary (Black outline)
- Municipal Boundary (Dashed line)
- Map Sheet Matchline (Dotted line)

NO.	DATE	REVISIONS	BY	CHK	APP	APP

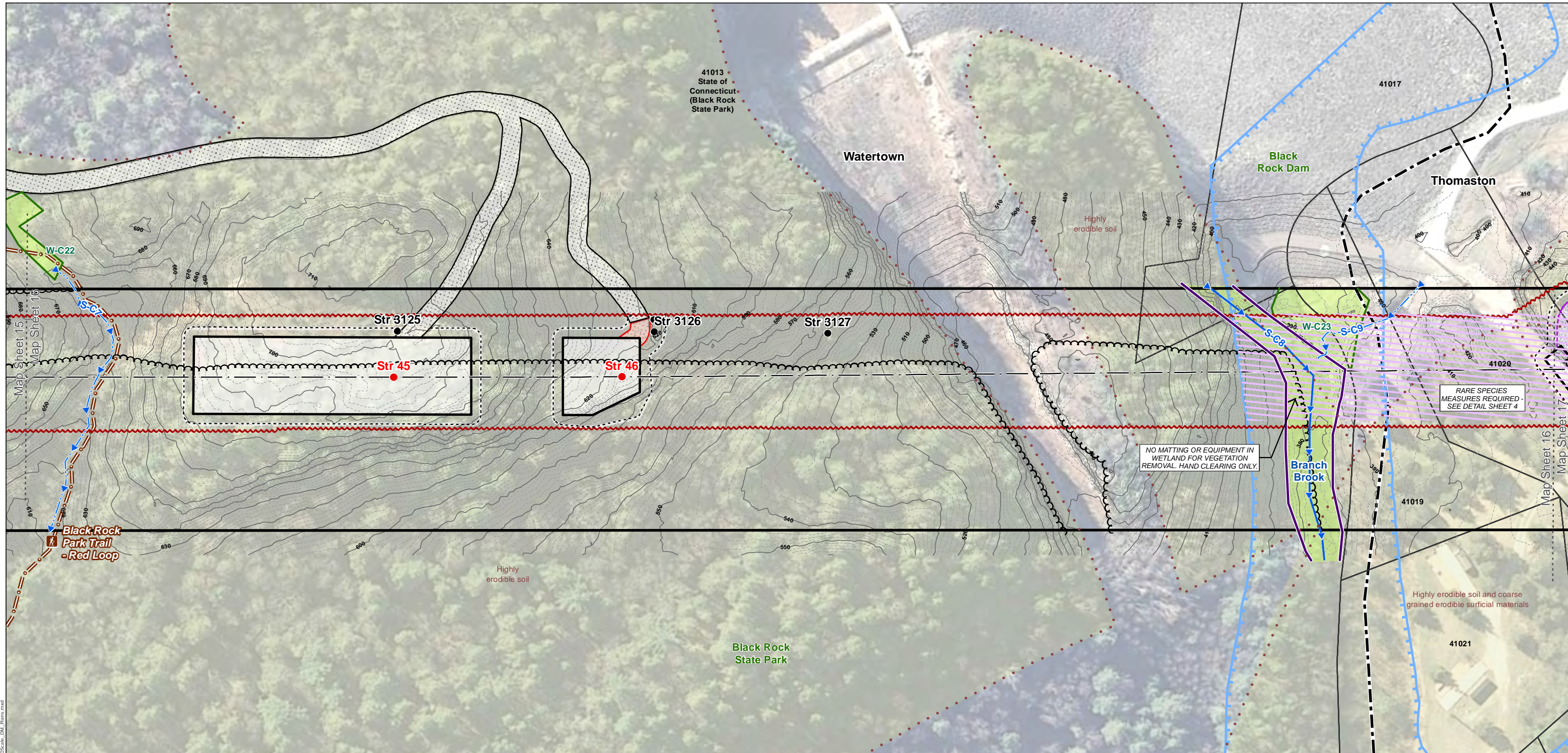
**EVSOURCE ENERGY**

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

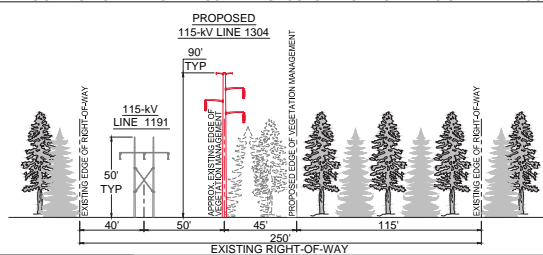
Watertown, CT | Map Sheet 15 of 35  
 Date: July, 2016 | Map Author: N. Castro

**Tighe & Bond** | **ALL-POINTS TECHNOLOGY CORPORATION**

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XS-3 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



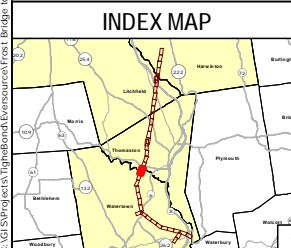
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
45	DELTA TANGENT	70	WEATHERING STEEL	DIRECT EMBEDDED
46	DELTA STRAIN	110	WEATHERING STEEL	DRILLED SHAFT



**Legend**

- Proposed Structure
- Structure to be Removed
- Existing Structure
- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
- Existing Transmission Line to be Removed
- 10' Contour Line
- 2' Contour Line
- Stonewall
- Fence
- Gate
- Tree Line
- Vegetation Removal Limits
- Limit of Disturbance
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- Trail Points
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- New Temporary Access Road
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- Municipal Boundary
- Map Sheet Matchline

**EVERSOURCE ENERGY**

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

Watertown/Thomaston, CT | Map Sheet 16 of 35

Date: July, 2016 | Map Author: N. Castro

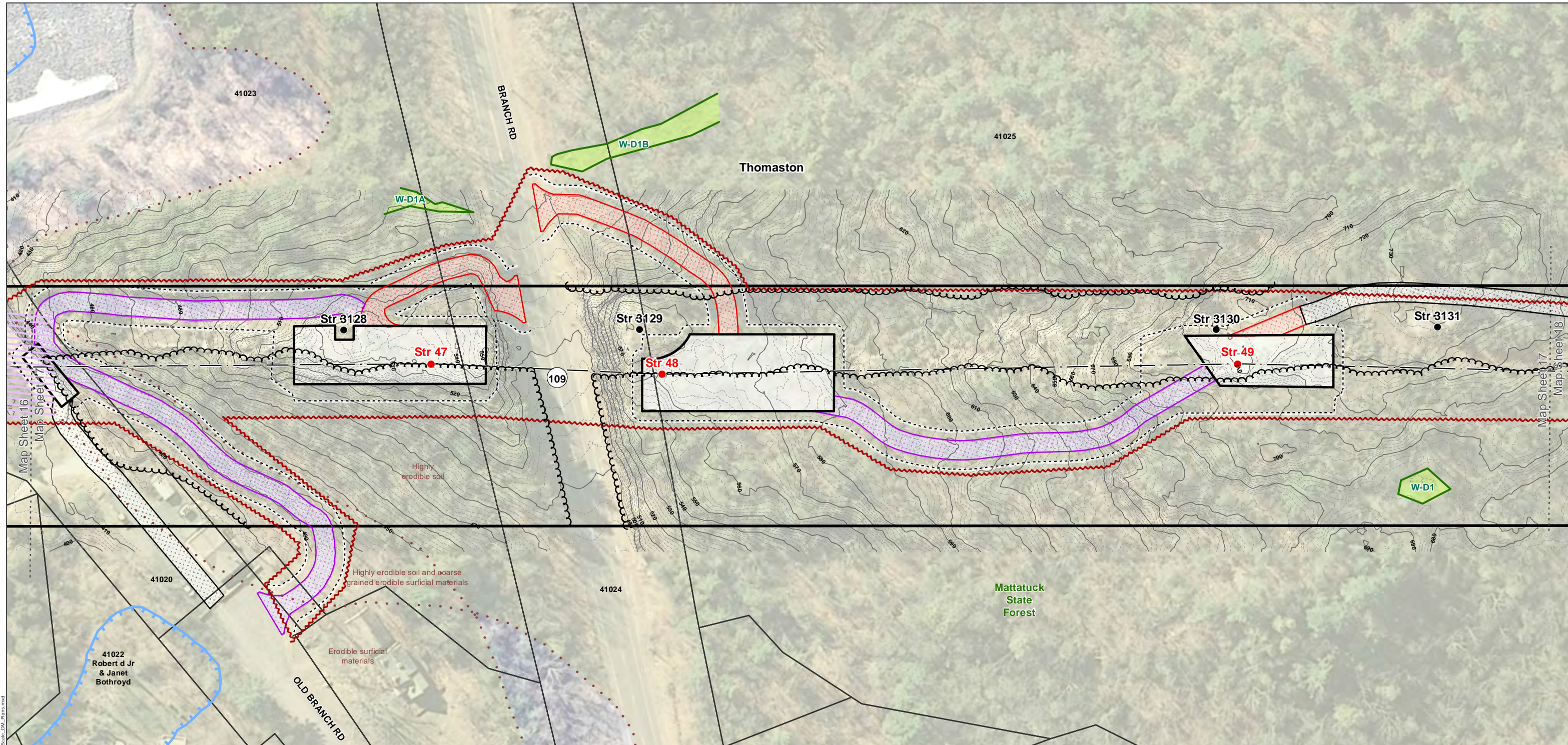
**Tighe & Bond**

**ALL-POINTS TECHNOLOGY CORPORATION**

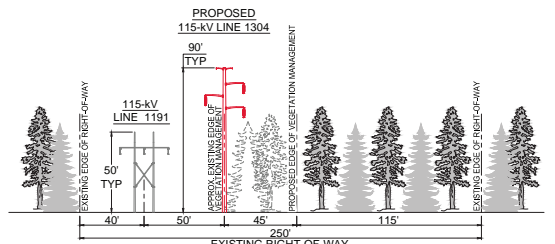
NO.	DATE	REVISIONS	BY	CHK	APP	APP

Base Map Source: 2012 Aerial Imagery (CTECO) | 1 inch = 100 feet | 0 50 100 Feet

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XS-3 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



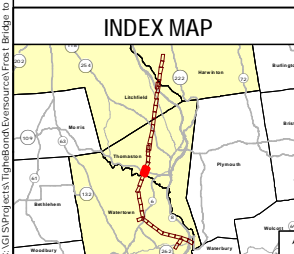
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
47	VERTICAL STRAIN	100	WEATHERING STEEL	DRILLED SHAFT
48	DELTA STRAIN	85	WEATHERING STEEL	DRILLED SHAFT
49	VERTICAL STRAIN	95	WEATHERING STEEL	DRILLED SHAFT



**Legend**

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- Existing Structure
- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
- Existing Transmission Line to be Removed
- 10' Contour Line
- 2' Contour Line
- Stonewall
- Fence
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NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVSOURCE ENERGY**

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

Thomaston, CT      Map Sheet 17 of 35

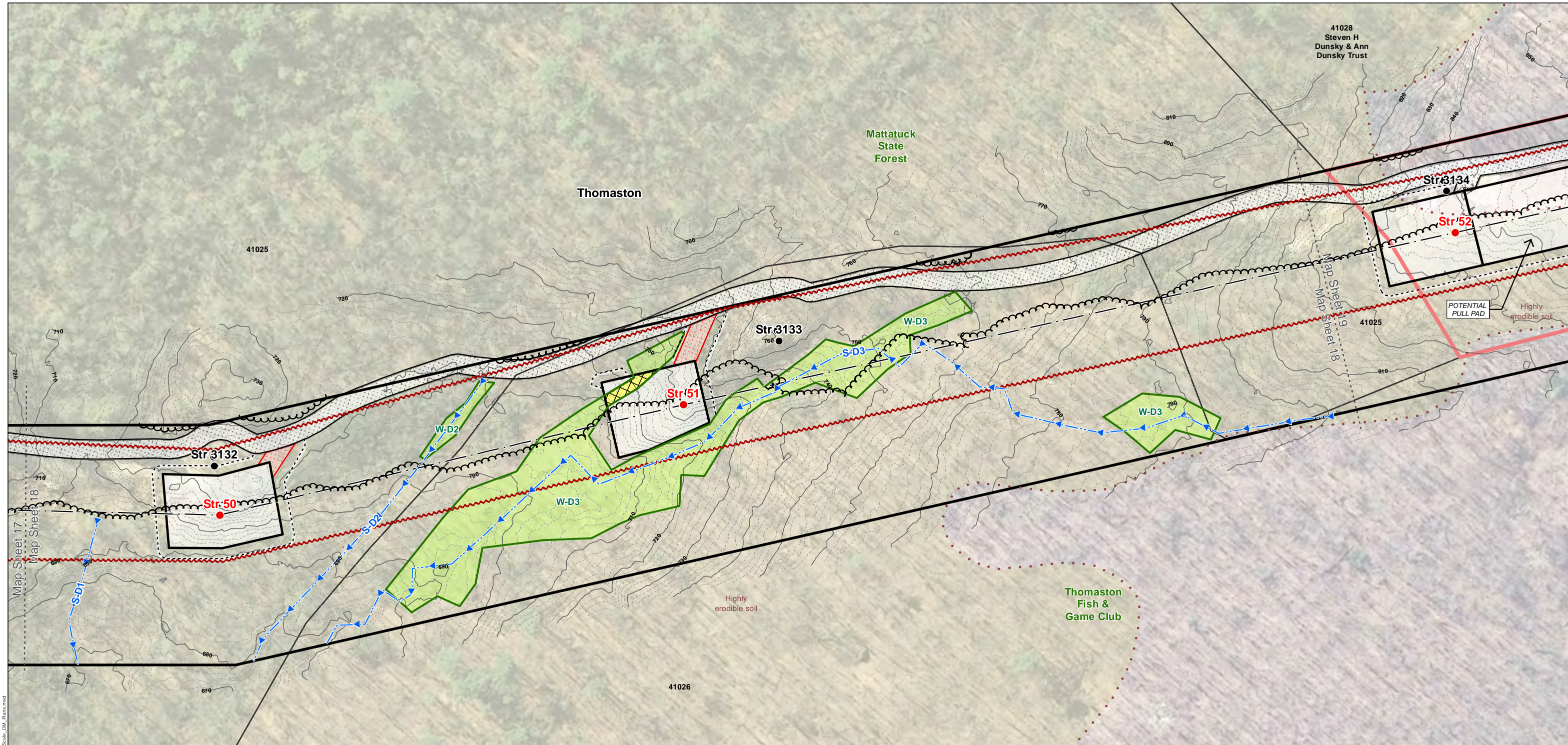
Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**

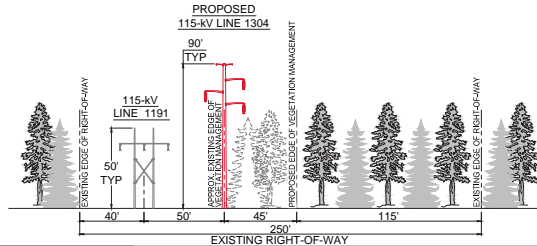
Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet Feet 0 50 100

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**XS-3 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION**



**WORK AREA BOUNDARIES IN / NEAR WETLANDS**

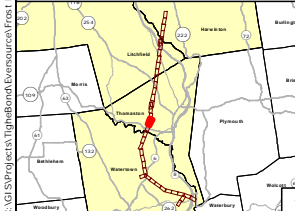
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
50	VERTICAL RUNNING ANGLE	105	WEATHERING STEEL	DRILLED SHAFT
51	DELTA TANGENT	107.5	WEATHERING STEEL	DIRECT EMBEDDED
52	DELTA TANGENT	88.5	WEATHERING STEEL	DIRECT EMBEDDED

**INDEX MAP**



**Legend**

- Proposed Structure
- ⊗ Structure to be Removed
- Existing Structure
- Existing Right-of-Way
- - - Proposed 115-kV Line (Centerline)
- Existing Transmission Line to be Removed
- 10' Contour Line
- 2' Contour Line
- ○ ○ ○ Stonewall
- X=X Fence
- Gate
- Tree Line
- Vegetation Removal Limits
- Limit of Disturbance
- Railroad
- Designated Recreation Trail
- ▲ Trail Points
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Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet Feet

NO.	DATE	REVISIONS	BY	CHK	APP	APP

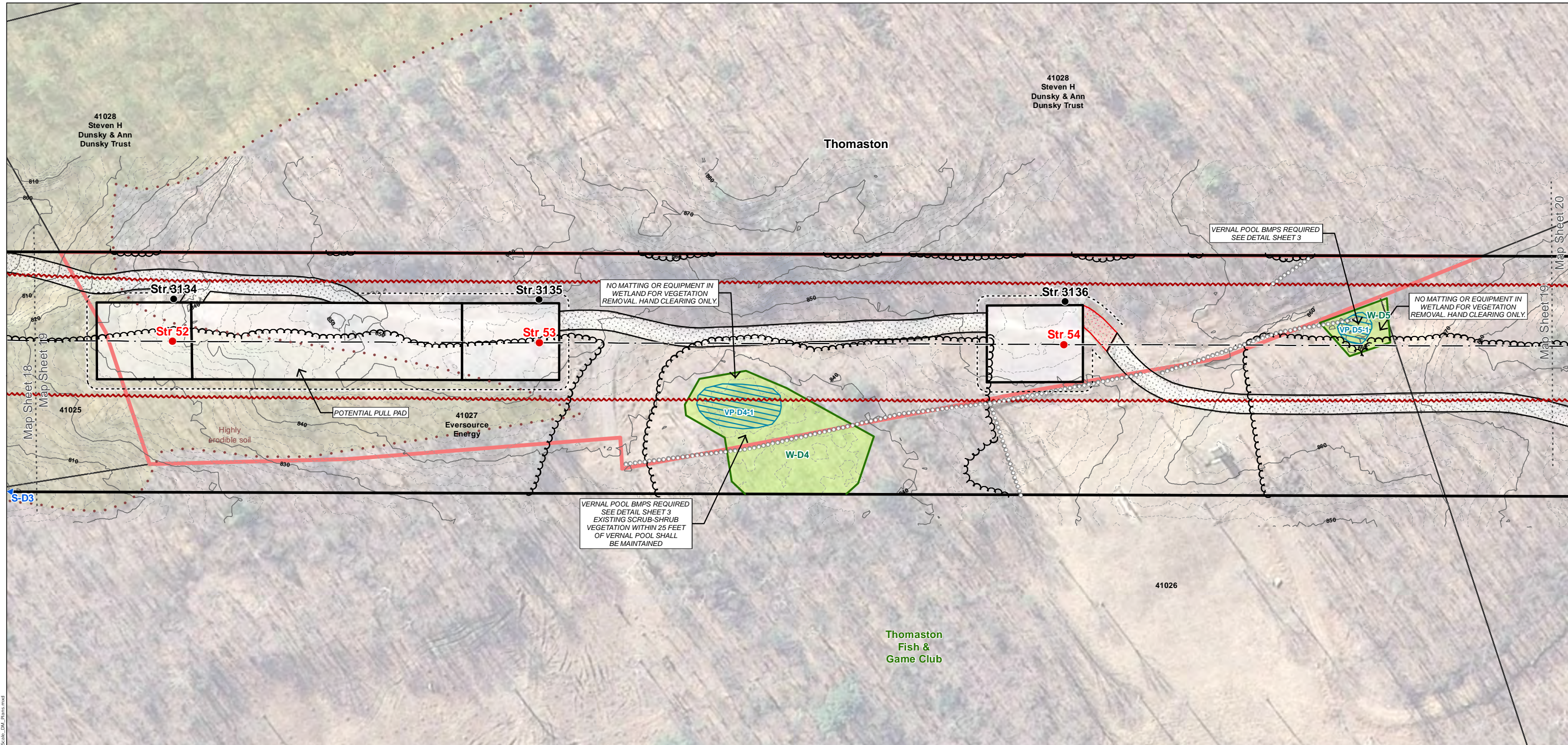
**EVERSOURCE ENERGY**

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

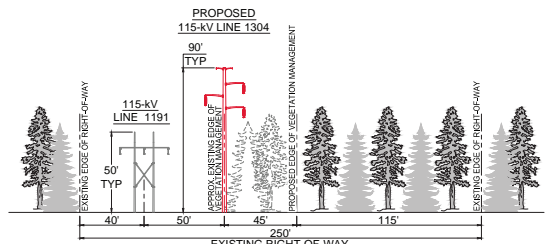
Thomaston, CT      Map Sheet 18 of 35

Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      ALL-POINTS TECHNOLOGY CORPORATION



XS-3 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



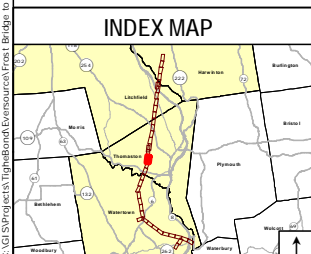
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54	DELTA TANGENT	84	WEATHERING STEEL	DIRECT EMBEDDED



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Base Map Source: 2012 Aerial Imagery (CTECO) 0 1 inch = 100 feet 50 100 Feet

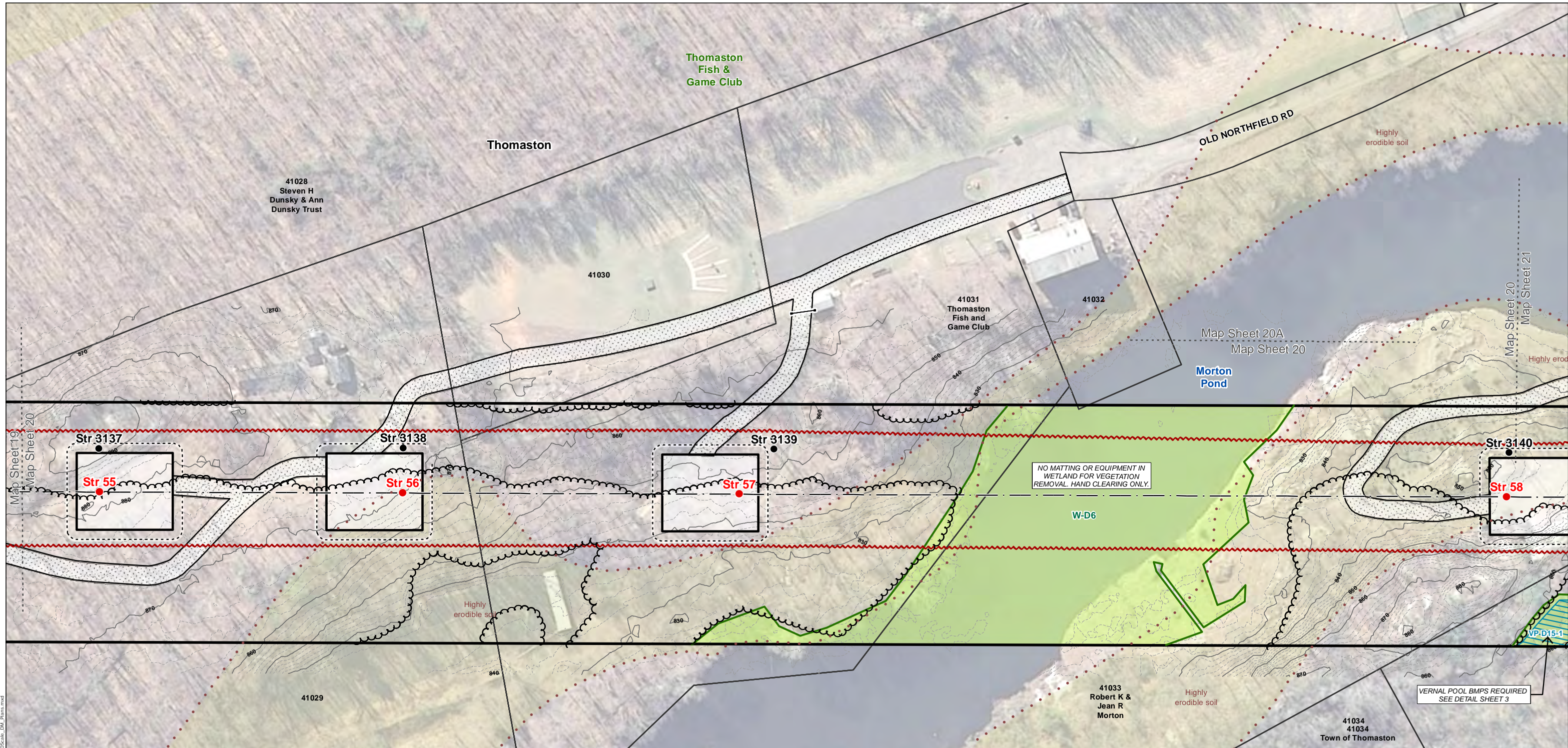
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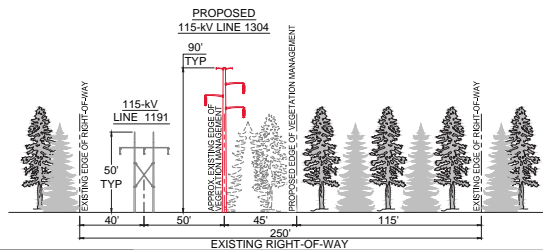
Thomaston, CT | Map Sheet 19 of 35  
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**Tighe & Bond** | ALL-POINTS TECHNOLOGY CORPORATION

NO.	DATE	REVISIONS	BY	CHK	APP	APP



**XS-3 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION**



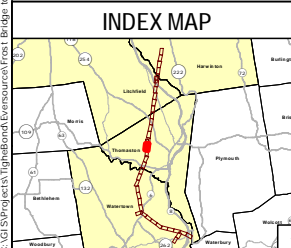
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
55	DELTA TANGENT	84	WEATHERING STEEL	DIRECT EMBEDDED
56	DELTA TANGENT	70	WEATHERING STEEL	DIRECT EMBEDDED
57	DELTA TANGENT	84	WEATHERING STEEL	DIRECT EMBEDDED
58	DELTA TANGENT	98	WEATHERING STEEL	DIRECT EMBEDDED



**Legend**

- Proposed Structure
- Structure to be Removed
- Existing Structure
- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
- Existing Transmission Line to be Removed
- 10' Contour Line
- 2' Contour Line
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- Fence
- Gate
- Tree Line
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- Limit of Disturbance
- Railroad
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- Trail Points
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- 100 Year Flood Zone
- Eversource Owned Property
- Parcel Boundary
- Municipal Boundary
- Map Sheet Matchline

NO.	DATE	REVISIONS	BY	CHK	APP	APP

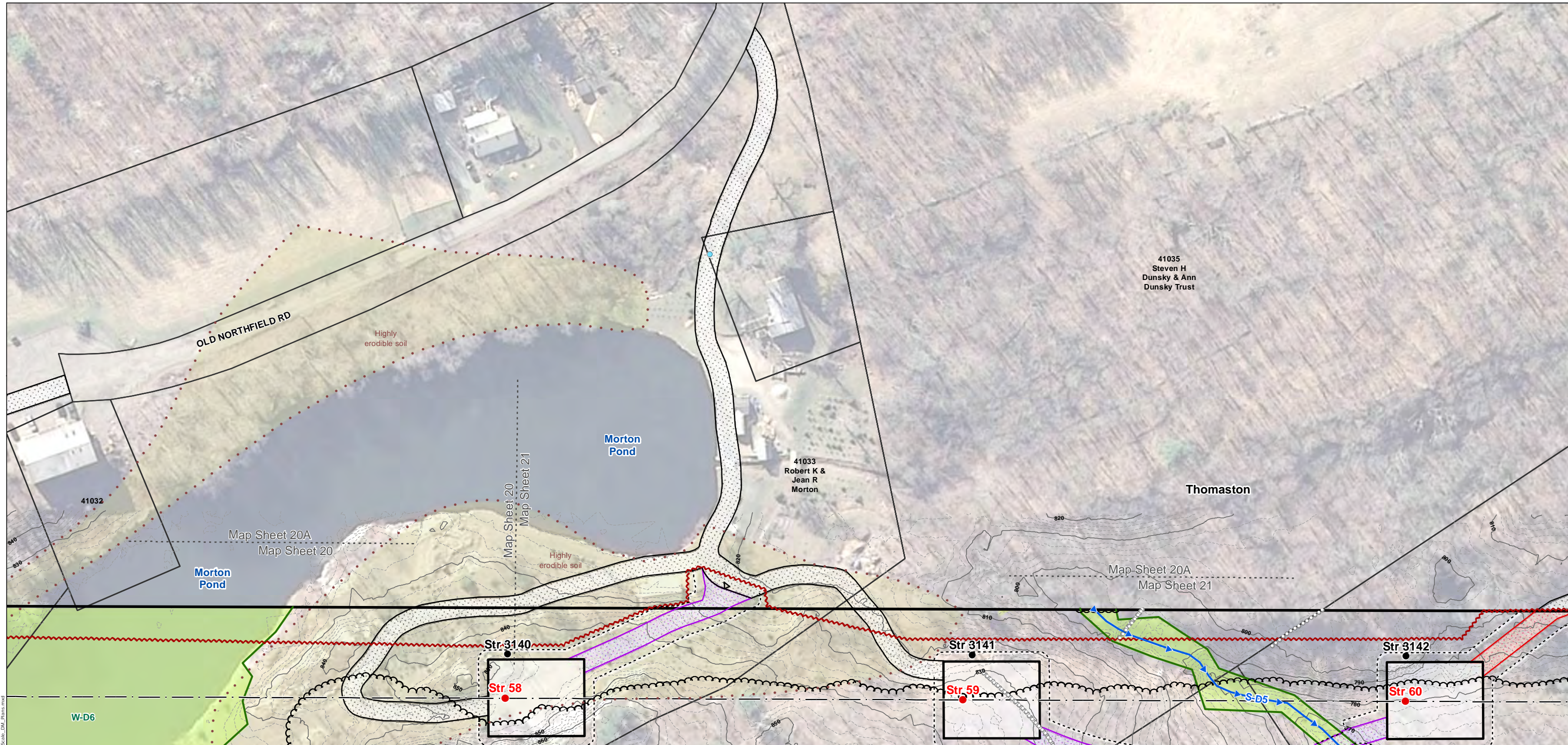
**EVSOURCE ENERGY**

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

Thomaston, CT | Map Sheet 20 of 35  
 Date: July, 2016 | Map Author: N. Castro

**Tighe & Bond** | ALL-POINTS TECHNOLOGY CORPORATION

C:\GIS\Projects\TigheBond\Eversource\Frost Bridge to Campville 115-kV Project\Drawings\FrostBridgeCampville\_105Scale\_DM\_Plan.mxd



41035  
Steven H  
Dunsky & Ann  
Dunsky Trust

41033  
Robert K &  
Jean R  
Morton

Thomaston

Map Sheet 20A  
Map Sheet 20

Map Sheet 20A  
Map Sheet 21

Str 3140

Str 3141

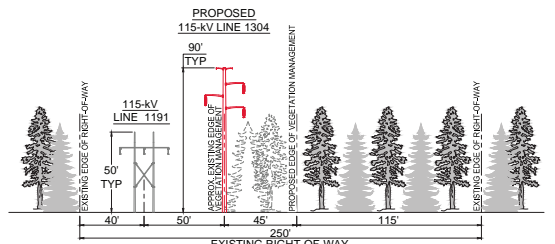
Str 3142

Str 58

Str 59

Str 60

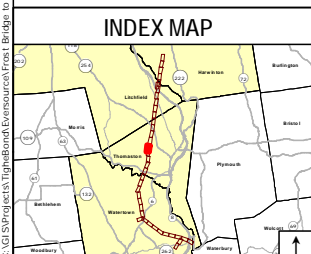
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59	DELTA TANGENT	88.5	WEATHERING STEEL	DIRECT EMBEDDED
60	DELTA TANGENT	98	WEATHERING STEEL	DIRECT EMBEDDED



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- 100 Year Flood Zone
- Eversource Owned Property
- Parcel Boundary
- Municipal Boundary
- Map Sheet Matchline

NO.	DATE	REVISIONS	BY	CHK	APP	APP

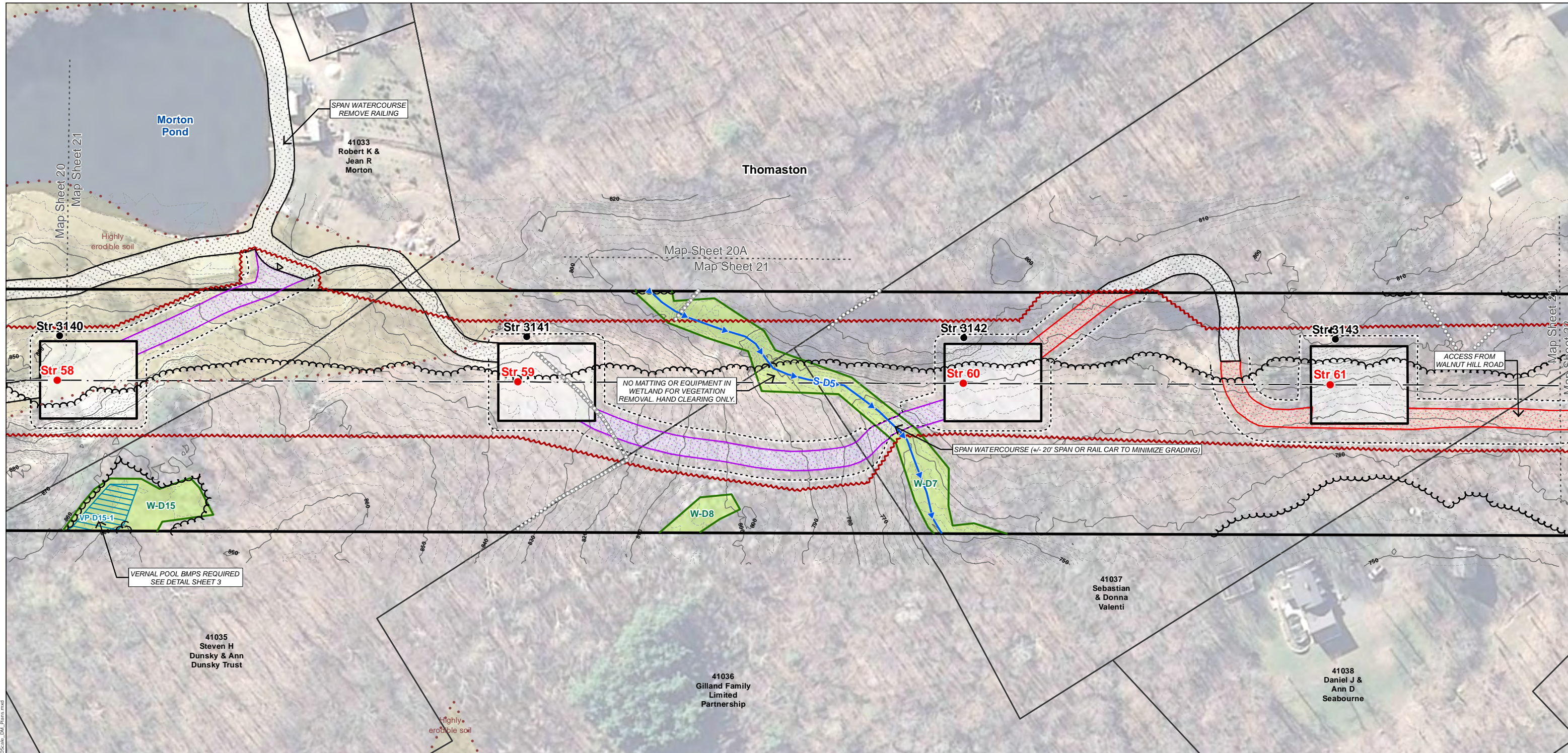
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**Frost Bridge to Campville  
115-kV Project  
Development & Management Plan**

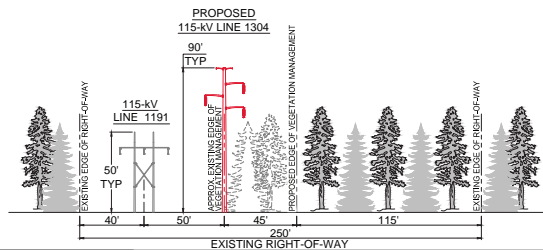
Thomaston, CT      Map Sheet 20A of 35  
 Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**

Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet



XS-3 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



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59	DELTA TANGENT	88.5	WEATHERING STEEL	DIRECT EMBEDDED
60	DELTA TANGENT	98	WEATHERING STEEL	DIRECT EMBEDDED
61	DELTA TANGENT	88.5	WEATHERING STEEL	DIRECT EMBEDDED

**INDEX MAP**



**Legend**

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- Map Sheet Matchline

Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet Feet 0 50 100

NO.	DATE	REVISIONS	BY	CHK	APP	APP

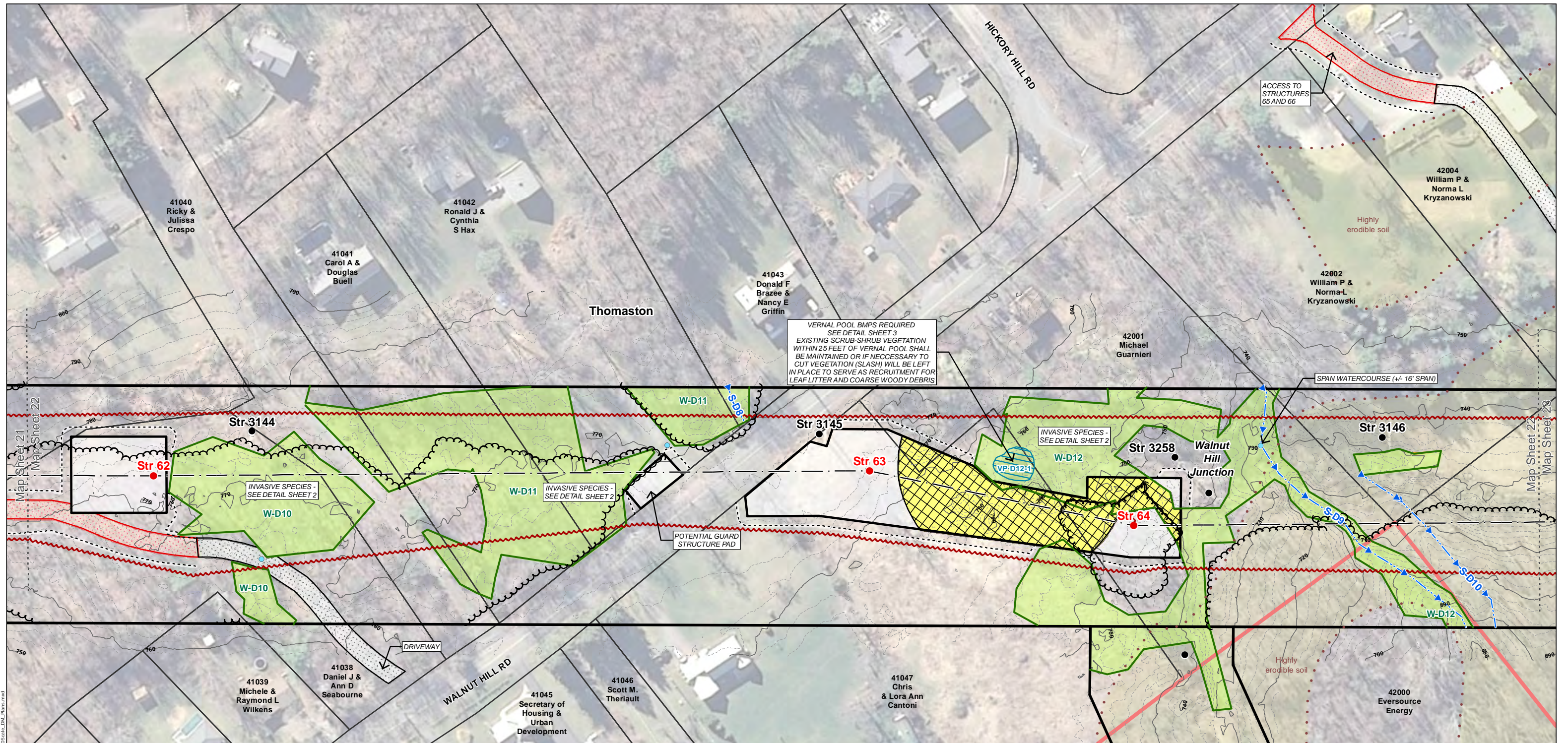
**EVERSOURCE ENERGY**

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

Thomaston, CT      Map Sheet 21 of 35

Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      ALL-POINTS TECHNOLOGY CORPORATION



VERNAL POOL BMPs REQUIRED  
SEE DETAIL SHEET 3  
EXISTING SCRUB-SHRUB VEGETATION  
WITHIN 25 FEET OF VERNAL POOL SHALL  
BE MAINTAINED OR IF NECESSARY TO  
CUT VEGETATION (SLASH) WILL BE LEFT  
IN PLACE TO SERVE AS RECRUITMENT FOR  
LEAF LITTER AND COARSE WOODY DEBRIS

INVASIVE SPECIES -  
SEE DETAIL SHEET 2  
VP-D12-1

INVASIVE SPECIES -  
SEE DETAIL SHEET 2  
W-D10

INVASIVE SPECIES -  
SEE DETAIL SHEET 2  
W-D11

POTENTIAL GUARD  
STRUCTURE PAD

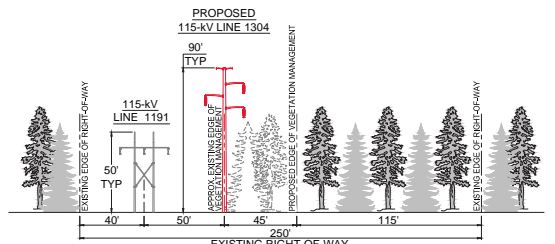
SPAN WATERCOURSE (+/- 16' SPAN)

ACCESS TO  
STRUCTURES  
65 AND 66

Highly  
erodible soil

Highly  
erodible soil

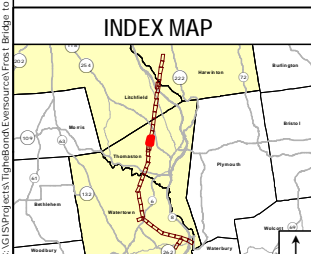
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
62	DELTA TANGENT	107.5	WEATHERING STEEL	DIRECT EMBEDDED
63	VERTICAL RUNNING ANGLE	125	WEATHERING STEEL	DRILLED SHAFT
64	VERTICAL DEADEND	110	WEATHERING STEEL	DRILLED SHAFT



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- Existing Transmission Line to be Removed
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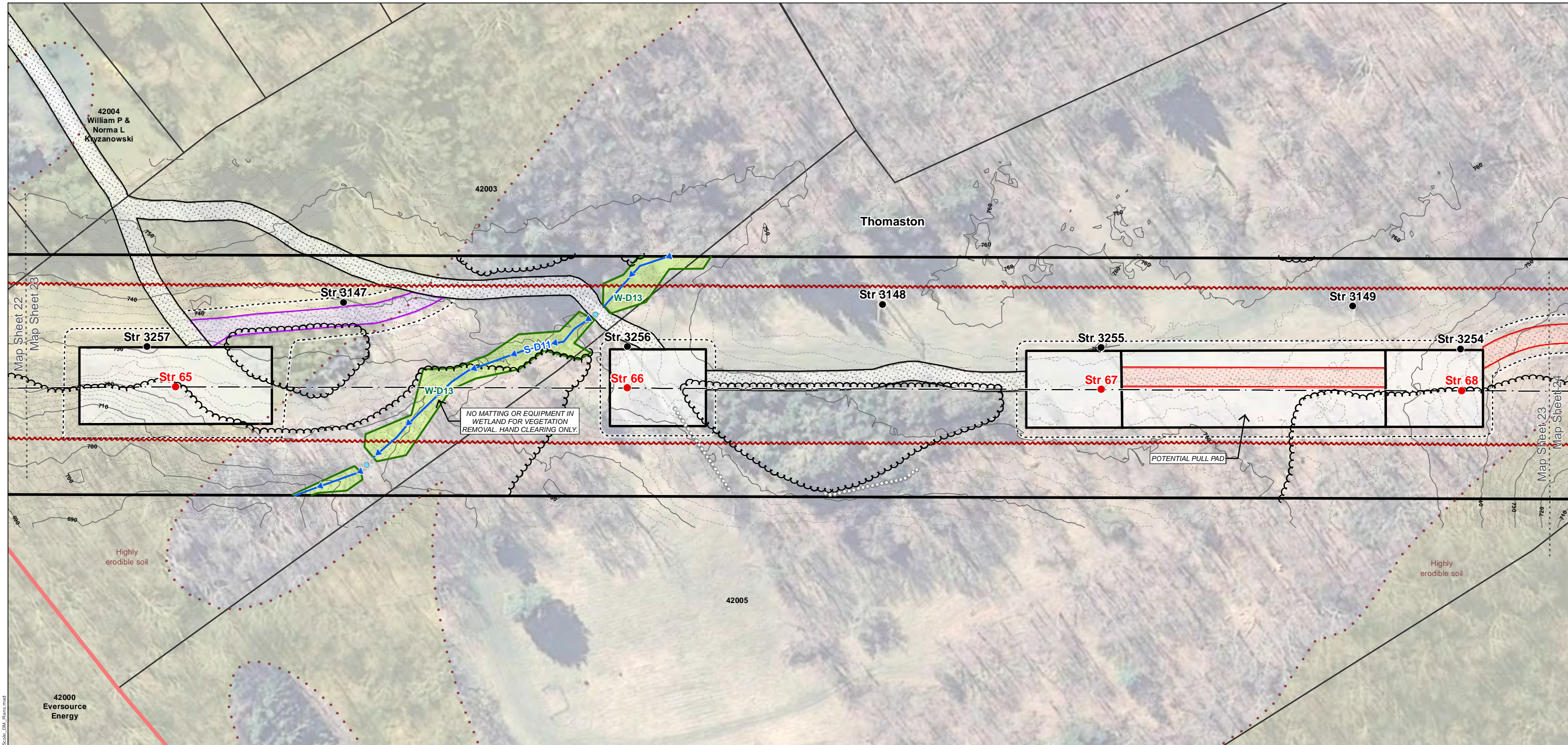
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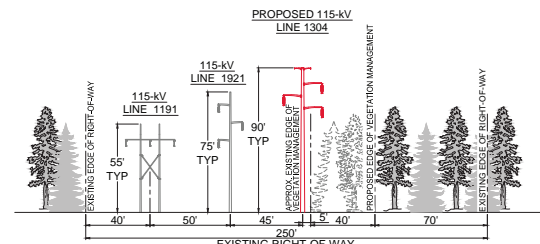
Thomaston, CT      Map Sheet 22 of 35  
Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**

Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet



XS-4 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



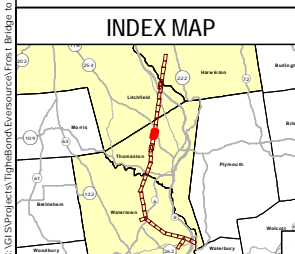
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66	DELTA TANGENT	84	WEATHERING STEEL	DIRECT EMBEDDED
67	DELTA TANGENT	70	WEATHERING STEEL	DIRECT EMBEDDED
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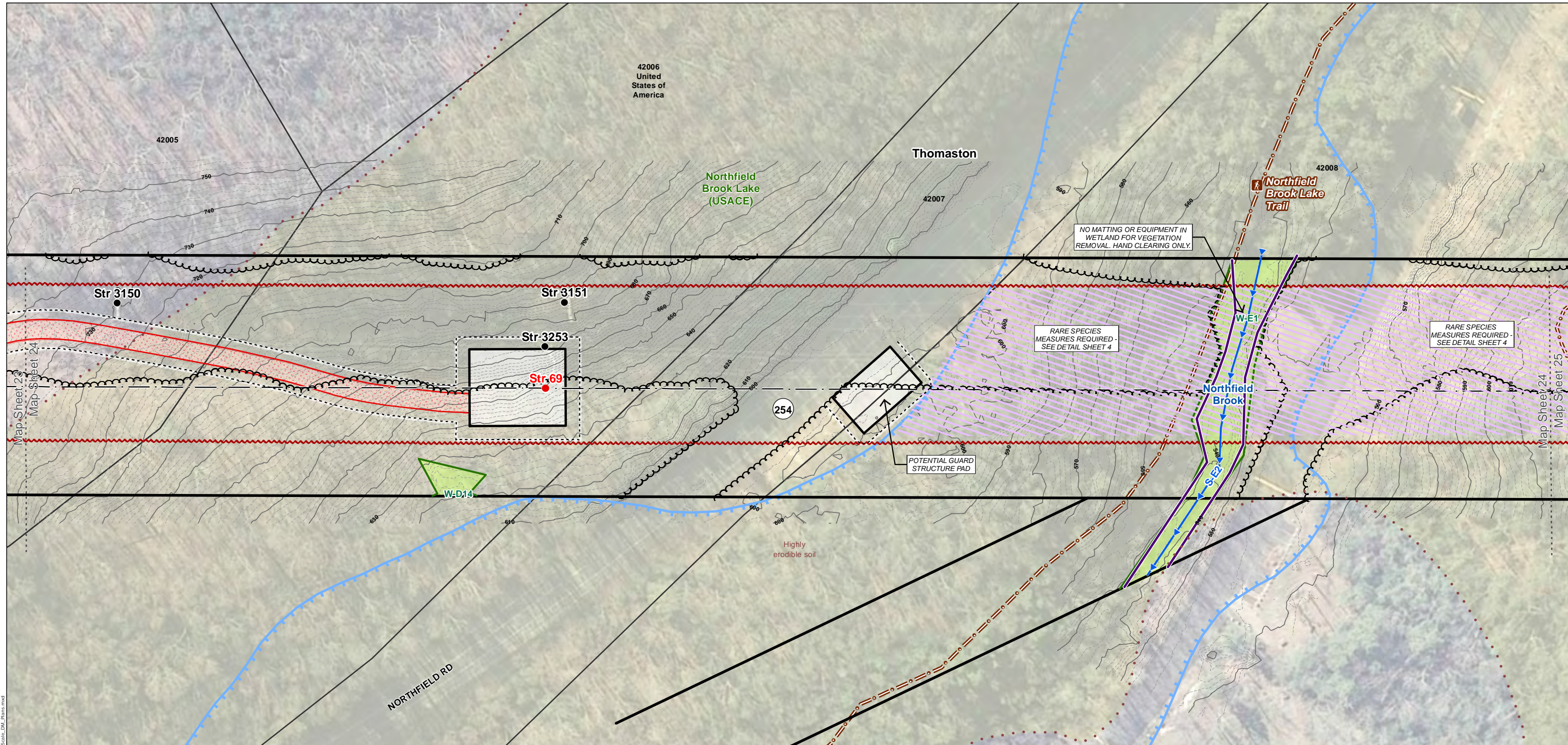
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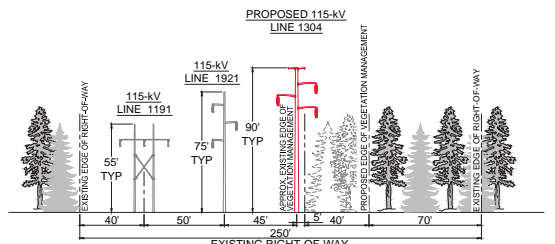
Thomaston, CT      Map Sheet 23 of 35

Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**



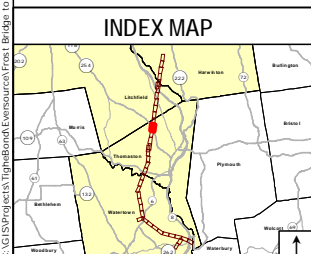
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
69	DELTA STRAIN	110	WEATHERING STEEL	DRILLED SHAFT



**Legend**

- Proposed Structure
- Structure to be Removed
- Existing Structure
- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
- Existing Transmission Line to be Removed
- 10' Contour Line
- 2' Contour Line
- Stonewall
- Fence
- Gate
- Tree Line
- Vegetation Removal Limits
- Limit of Disturbance
- Railroad
- Designated Recreation Trail
- Trail Points
- Work Pad
- Existing Access Road
- Existing Alternate Access Road
- New Access Road
- New Alternate Access Road
- New Temporary Access Road
- Proposed Substation Expansion
- Culvert (center)
- Intermittent Watercourse
- Perennial Watercourse
- Ordinary High Water Mark
- Wetland Boundary
- Wetland Area
- Connecticut Wetlands Only
- Temporary Wetland Impact
- Permanent Wetland Impact
- Rare Species
- Vernal Pool
- Decoy Vernal Pool
- Highly Erodible Soils
- 100 Year Flood Zone
- Eversource Owned Property
- Parcel Boundary
- Municipal Boundary
- Map Sheet Matchline

NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVSOURCE ENERGY**

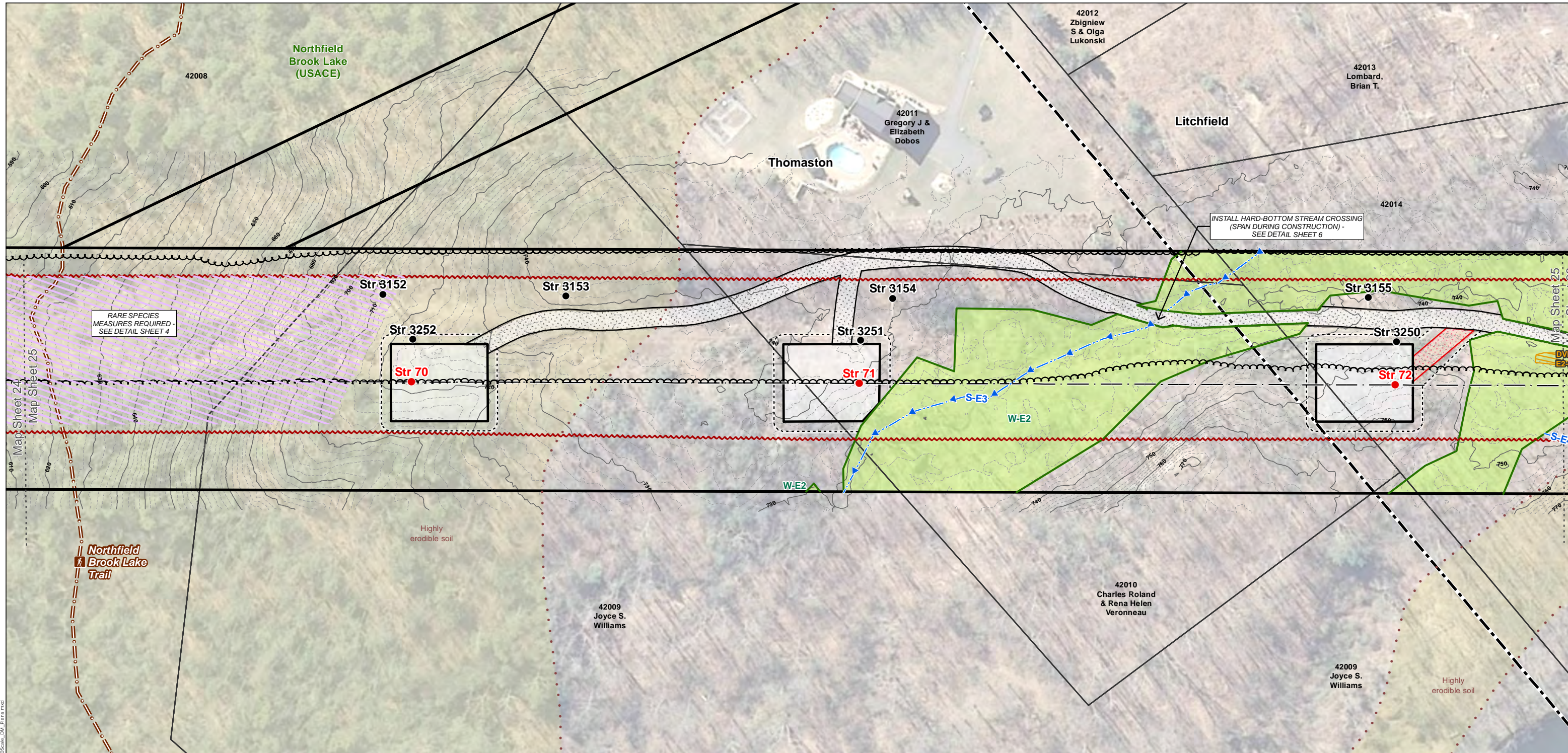
**Frost Bridge to Campville 115-kV Project Development & Management Plan**

Thomaston, CT | Map Sheet 24 of 35  
 Date: July, 2016 | Map Author: N. Castro

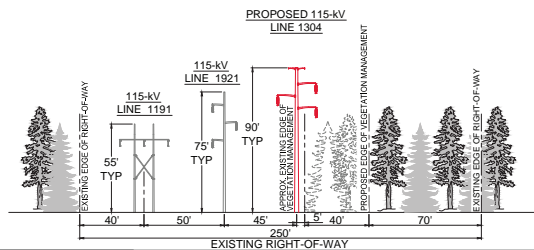
**Tighe & Bond** | ALL-POINTS TECHNOLOGY CORPORATION

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XS-4 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



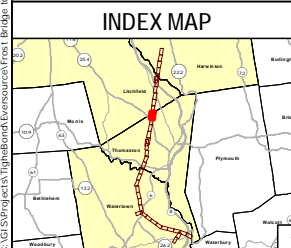
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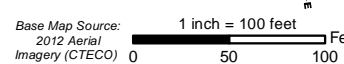
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
70	DELTA STRAIN	85	WEATHERING STEEL	DRILLED SHAFT
71	DELTA TANGENT	84	WEATHERING STEEL	DIRECT EMBEDDED
72	DELTA STRAIN	75	WEATHERING STEEL	DIRECT EMBEDDED



**Legend**

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- Existing Transmission Line to be Removed
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- 2' Contour Line
- Stonewall
- Fence
- Gate
- Tree Line
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- 100 Year Flood Zone
- Eversource Owned Property
- Parcel Boundary
- Municipal Boundary
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NO.	DATE	REVISIONS	BY	CHK	APP	APP

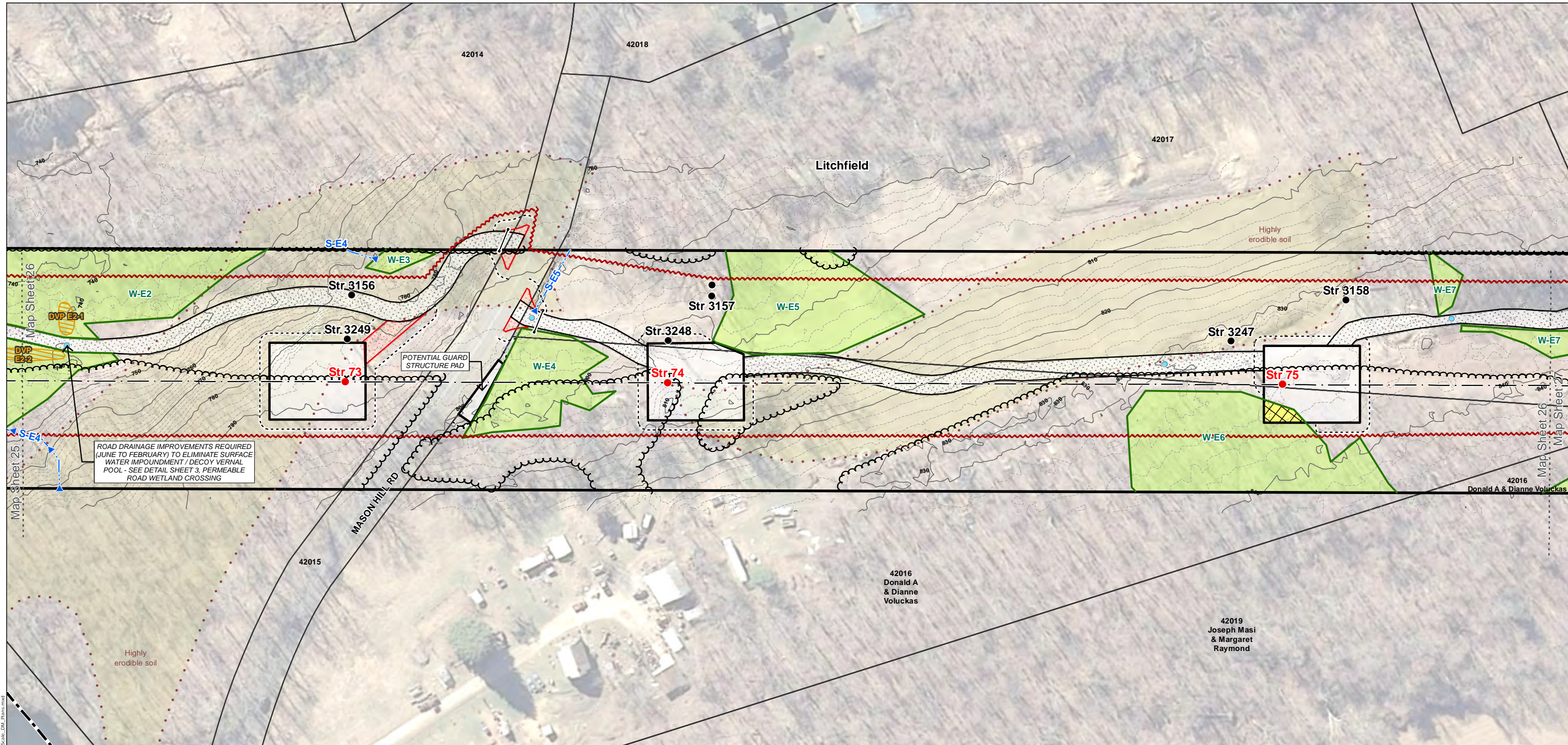
**EVERSOURCE ENERGY**

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

Thomaston/Litchfield, CT | Map Sheet 25 of 35

Date: July, 2016 | Map Author: N. Castro

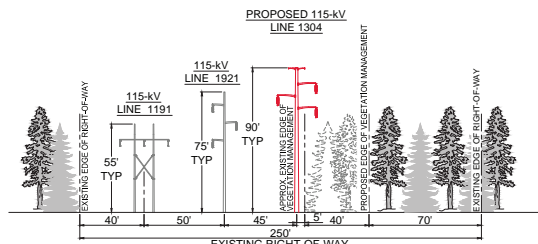
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ROAD DRAINAGE IMPROVEMENTS REQUIRED (JUNE TO FEBRUARY) TO ELIMINATE SURFACE WATER IMPOUNDMENT / DECOY VERNAL POOL - SEE DETAIL SHEET 3, PERMEABLE ROAD WETLAND CROSSING

POTENTIAL GUARD STRUCTURE PAD

XS-4 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



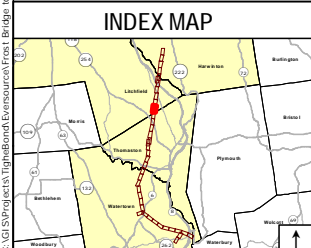
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
73	DELTA TANGENT	88.5	WEATHERING STEEL	DIRECT EMBEDDED
74	DELTA TANGENT	93.5	WEATHERING STEEL	DIRECT EMBEDDED
75	DELTA TANGENT	84	WEATHERING STEEL	DIRECT EMBEDDED



**Legend**

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Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet Feet 0 50 100

NO.	DATE	REVISIONS	BY	CHK	APP	APP

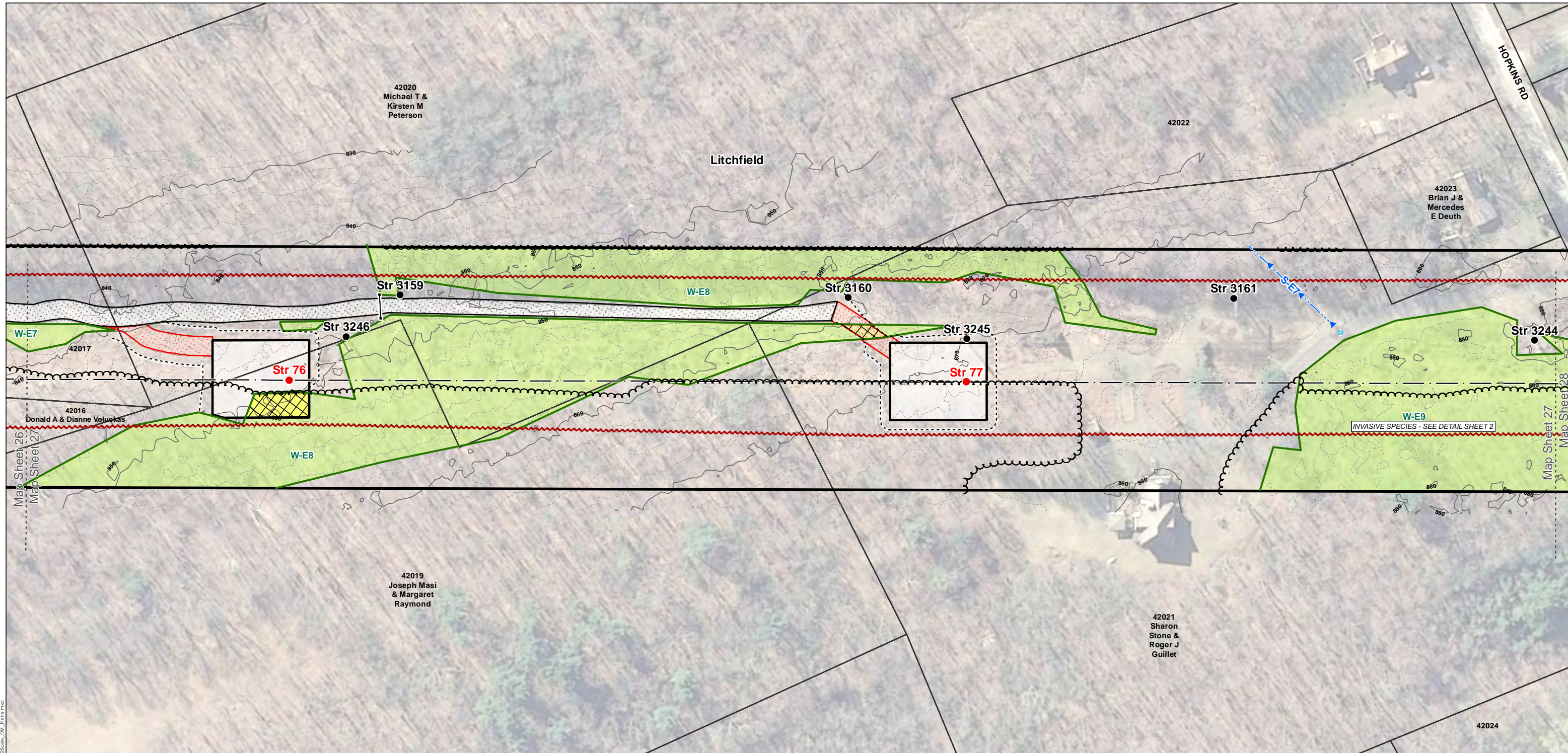
**EVERSOURCE ENERGY**

**Frost Bridge to Campville  
115-kV Project  
Development & Management Plan**

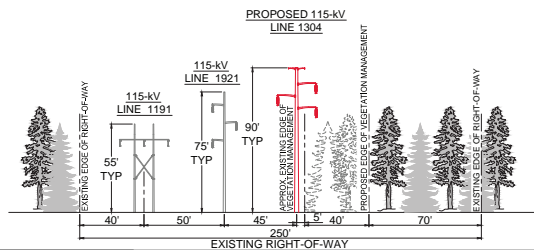
Litchfield, CT      Map Sheet 26 of 35

Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      ALL-POINTS TECHNOLOGY CORPORATION



XS-4 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



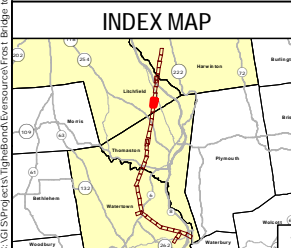
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
76	DELTA TANGENT	84	WEATHERING STEEL	DIRECT EMBEDDED
77	DELTA TANGENT	93.5	WEATHERING STEEL	DIRECT EMBEDDED



**Legend**

- Proposed Structure
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- Existing Structure
- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
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Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet Feet

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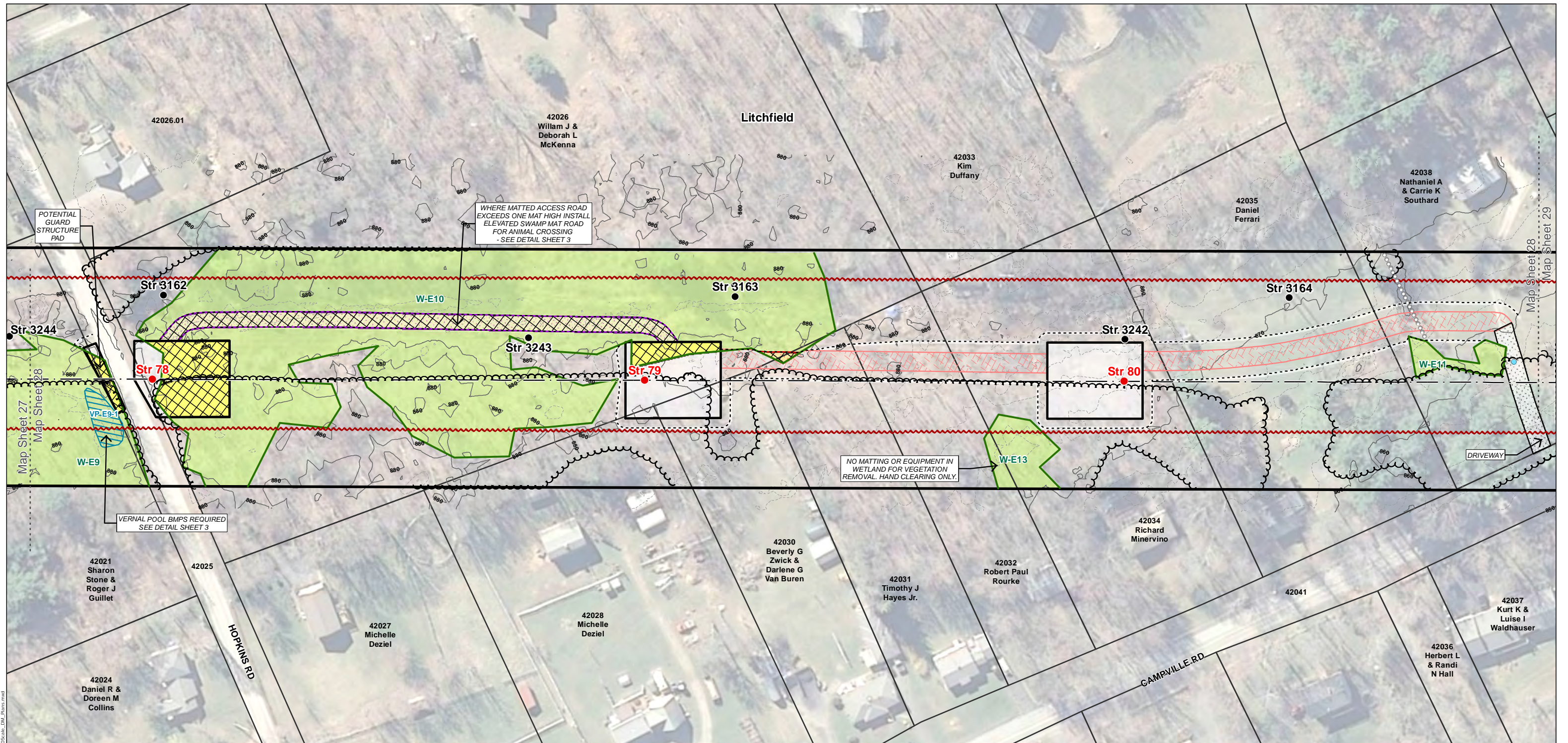
**EVSOURCE ENERGY**

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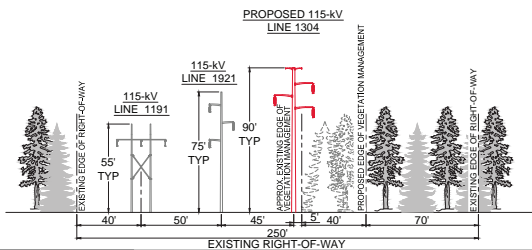
Litchfield, CT      Map Sheet 27 of 35

Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**



XS-4 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
78	DELTA TANGENT	93.5	WEATHERING STEEL	DIRECT EMBEDDED
79	DELTA TANGENT	75	WEATHERING STEEL	DIRECT EMBEDDED
80	DELTA TANGENT	79	WEATHERING STEEL	DIRECT EMBEDDED

**INDEX MAP**



**Legend**

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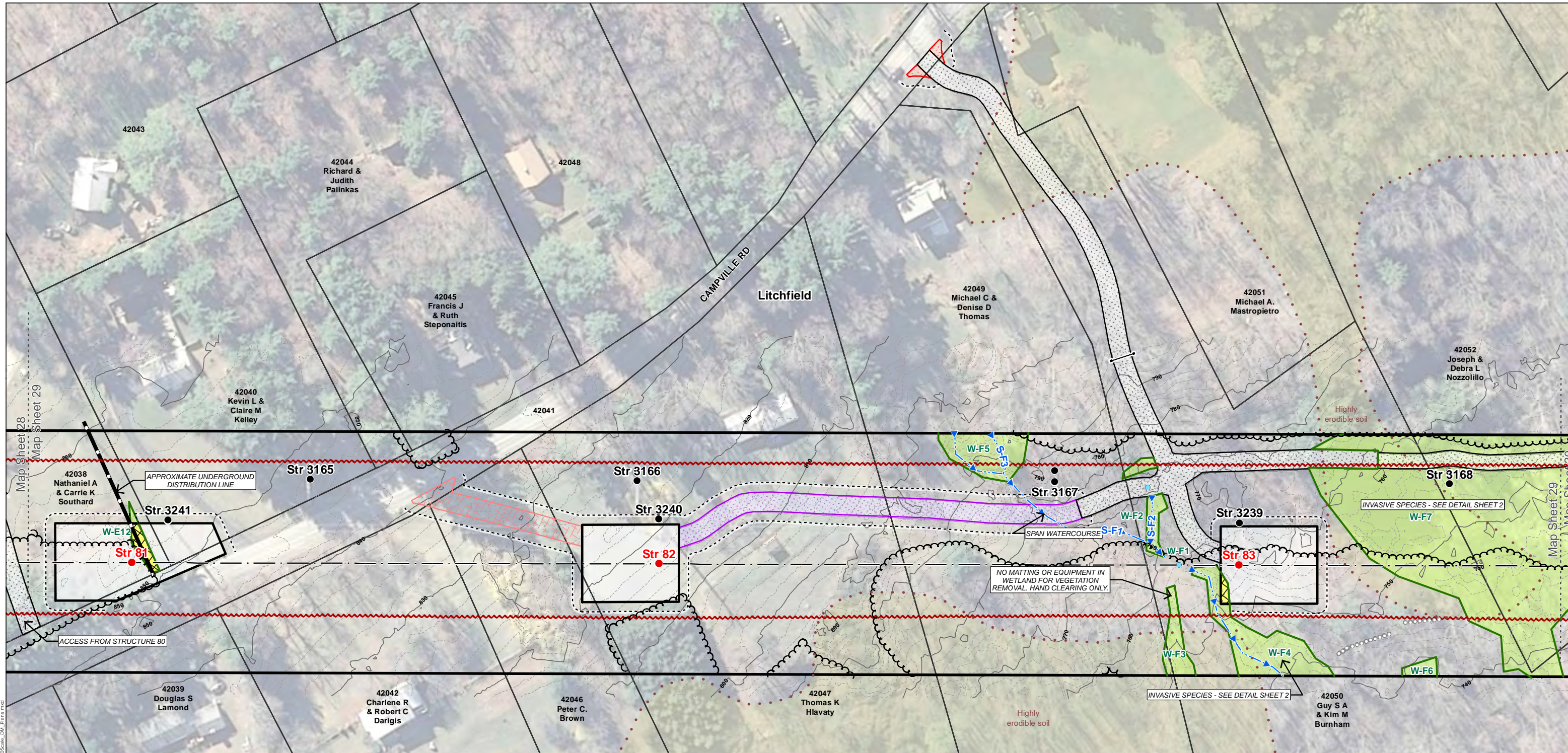
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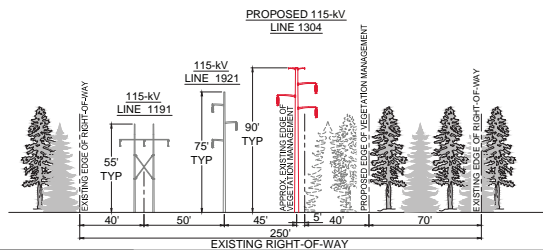
Litchfield, CT Map Sheet 28 of 35  
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**Tighe & Bond**

**ALL-POINTS TECHNOLOGY CORPORATION**



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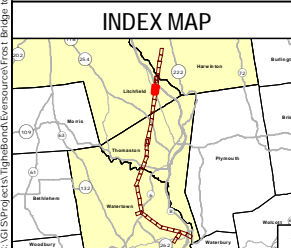
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81	DELTA TANGENT	98	WEATHERING STEEL	DIRECT EMBEDDED
82	DELTA TANGENT	103	WEATHERING STEEL	DIRECT EMBEDDED
83	DELTA TANGENT	79	WEATHERING STEEL	DIRECT EMBEDDED



**Legend**

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- Connecticut Wetlands Only
- Temporary Wetland Impact
- Permanent Wetland Impact
- Rare Species
- Vernal Pool
- Decoy Vernal Pool
- Highly Erodible Soils
- 100 Year Flood Zone
- Eversource Owned Property
- Parcel Boundary
- Municipal Boundary
- Map Sheet Matchline

NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVERSOURCE ENERGY**

**Frost Bridge to Campville  
115-kV Project  
Development & Management Plan**

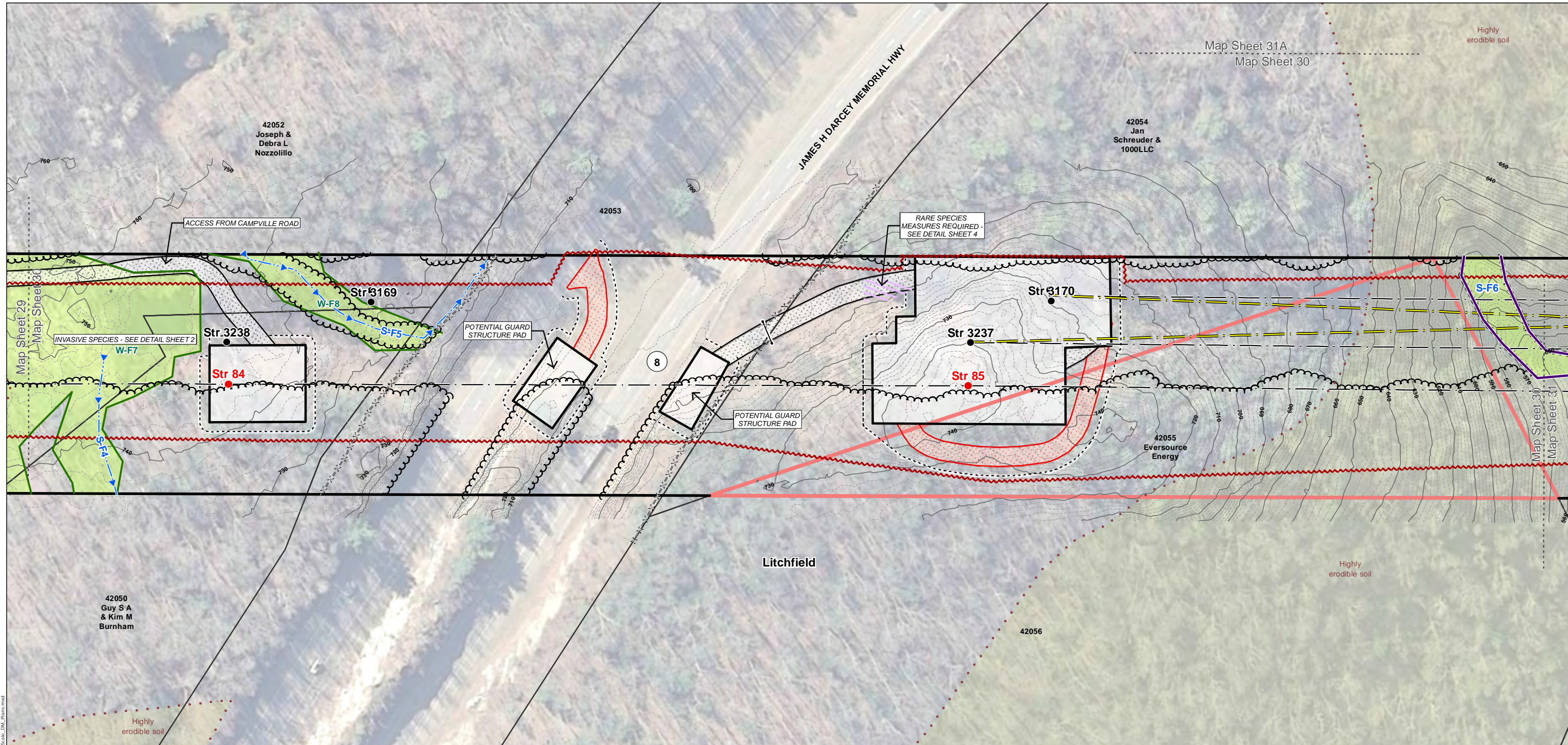
Litchfield, CT      Map Sheet 29 of 35

Date: July, 2016      Map Author: N. Castro

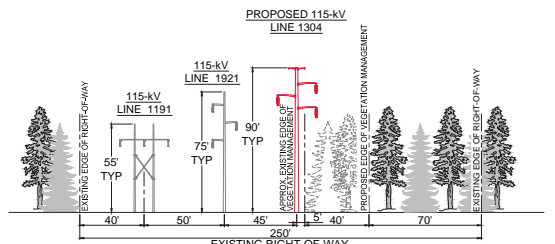
**Tighe & Bond**

**ALL-POINTS TECHNOLOGY CORPORATION**

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XS-4 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



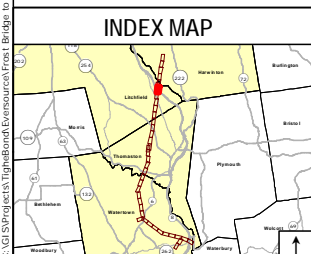
**WORK AREA BOUNDARIES IN / NEAR WETLANDS**

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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
84	DELTA TANGENT	70	WEATHERING STEEL	DIRECT EMBEDDED
85	VERTICAL DEADEND	100	WEATHERING STEEL	DRILLED SHAFT



**Legend**

- Proposed Structure
- Structure to be Removed
- Existing Structure
- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
- Existing Transmission Line to be Removed
- 10' Contour Line
- 2' Contour Line
- Stonewall
- Fence
- Gate
- Tree Line
- Vegetation Removal Limits
- Limit of Disturbance
- Railroad
- Designated Recreation Trail
- Trail Points
- Work Pad
- Existing Access Road
- Existing Alternate Access Road
- New Access Road
- New Alternate Access Road
- New Temporary Access Road
- Proposed Substation Expansion
- Culvert (center)
- Intermittent Watercourse
- Perennial Watercourse
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- Wetland Area
- Connecticut Wetlands Only
- Temporary Wetland Impact
- Permanent Wetland Impact
- Rare Species
- Vernal Pool
- Decoy Vernal Pool
- 100 Year Flood Zone
- Eversource Owned Property
- Parcel Boundary
- Municipal Boundary
- Map Sheet Matchline

NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVSOURCE ENERGY**

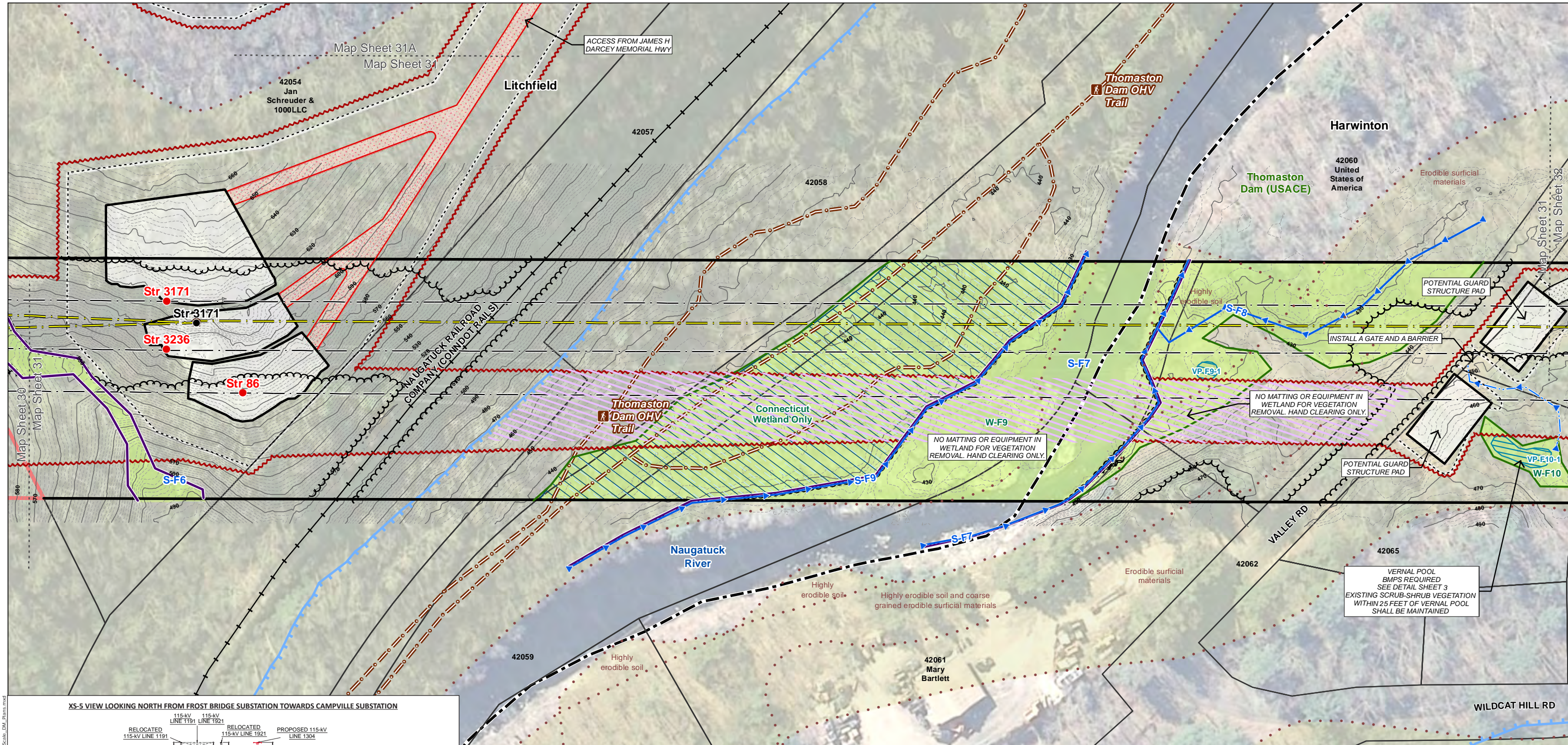
**Frost Bridge to Campville  
115-kV Project  
Development & Management Plan**

Litchfield, CT      Map Sheet 30 of 35

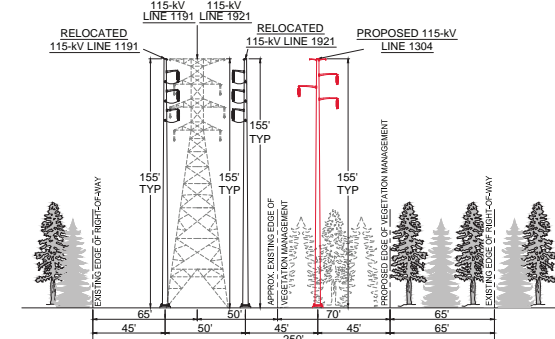
Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**

Base Map Source: 2012 Aerial Imagery (CTECO)      1 inch = 100 feet      Feet



**XS-5 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION**



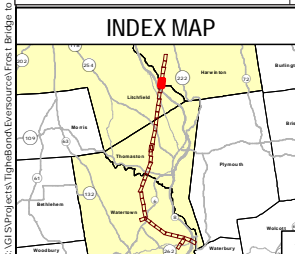
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
86	DELTA TANGENT	145	WEATHERING STEEL	DRILLED SHAFT
3236	VERTICAL DEADEND	165	WEATHERING STEEL	DRILLED SHAFT
3171	VERTICAL DEADEND	145	WEATHERING STEEL	DRILLED SHAFT



**Legend**

- Proposed Structure
- Structure to be Removed
- Existing Structure
- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
- Existing Transmission Line to be Removed
- 10' Contour Line
- 2' Contour Line
- Stonewall
- Fence
- Gate
- Tree Line
- Vegetation Removal Limits
- Limit of Disturbance
- Railroad
- Designated Recreation Trail
- Trail Points
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- New Access Road
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- Municipal Boundary
- Map Sheet Matchline

**EVERSOURCE ENERGY**

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

Litchfield/Harwinton, CT | Map Sheet 31 of 35

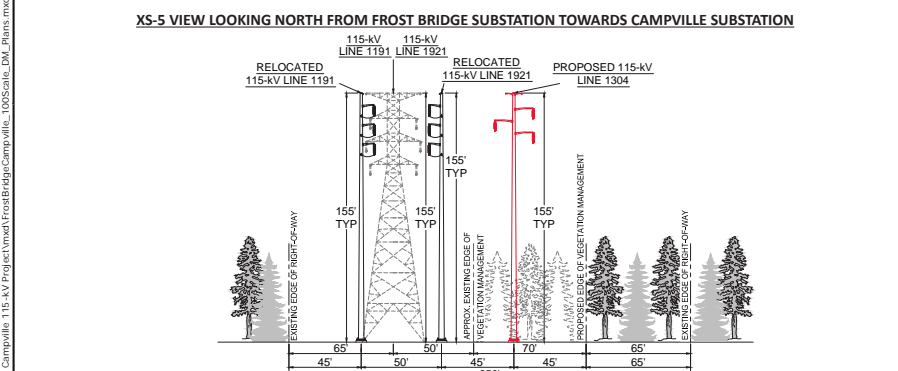
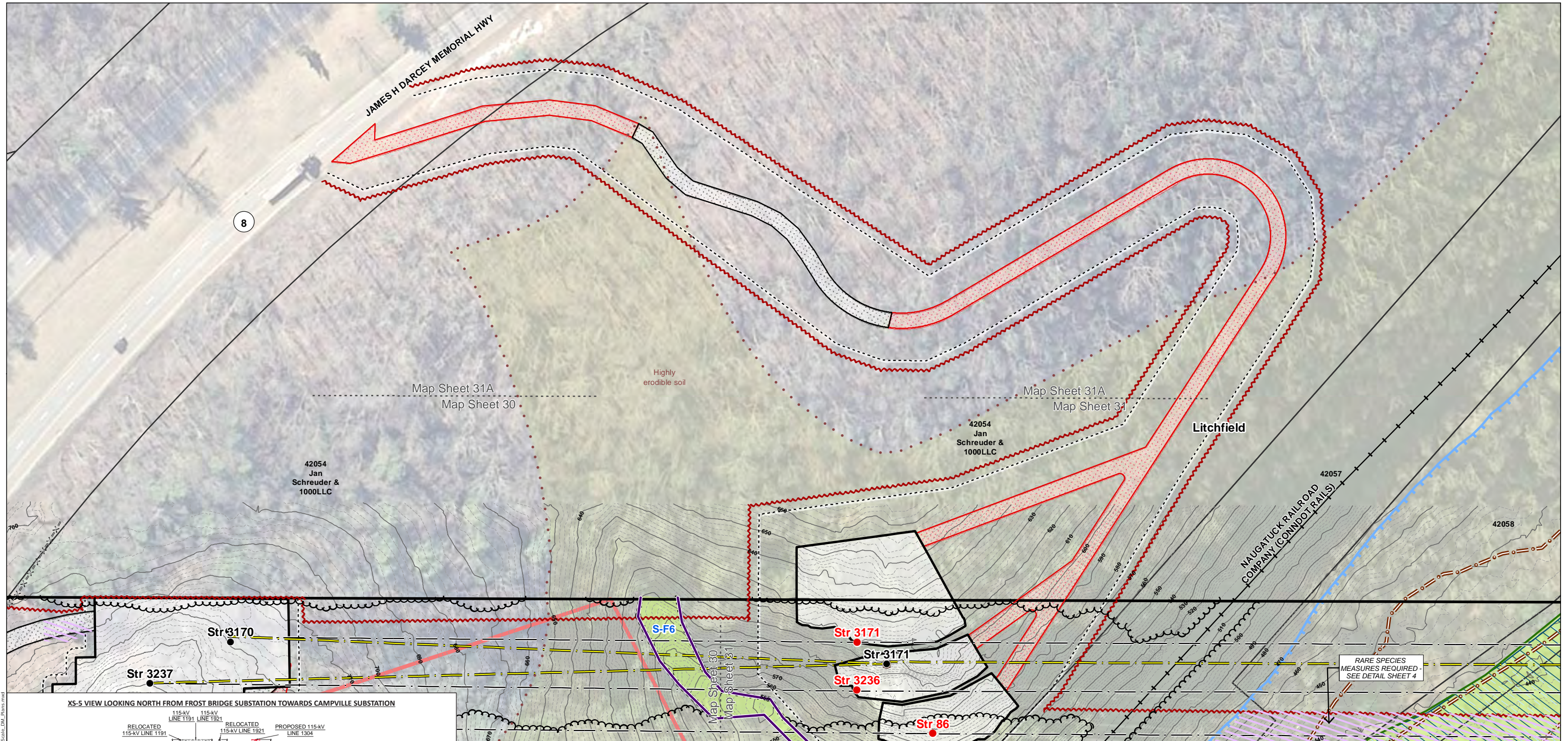
Date: July, 2016 | Map Author: N. Castro

**Tighe & Bond**

**ALL-POINTS TECHNOLOGY CORPORATION**

NO.	DATE	REVISIONS	BY	CHK	APP	APP

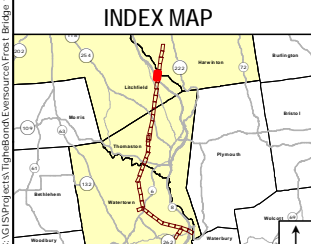
Base Map Source: 2012 Aerial Imagery (CTECO) | 1 inch = 100 feet



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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
85	VERTICAL DEADEND	100	WEATHERING STEEL	DRILLED SHAFT
86	DELTA TANGENT	145	WEATHERING STEEL	DRILLED SHAFT
3236	VERTICAL DEADEND	165	WEATHERING STEEL	DRILLED SHAFT
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**Legend**

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- Proposed 115-kV Line (Centerline)
- Existing Transmission Line to be Removed
- 10' Contour Line
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- Map Sheet Matchline

NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVERSOURCE ENERGY**

**Frost Bridge to Campville 115-kV Project Development & Management Plan**

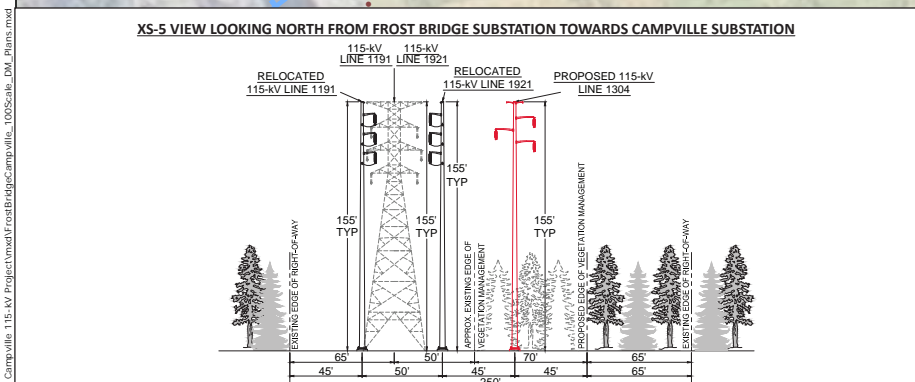
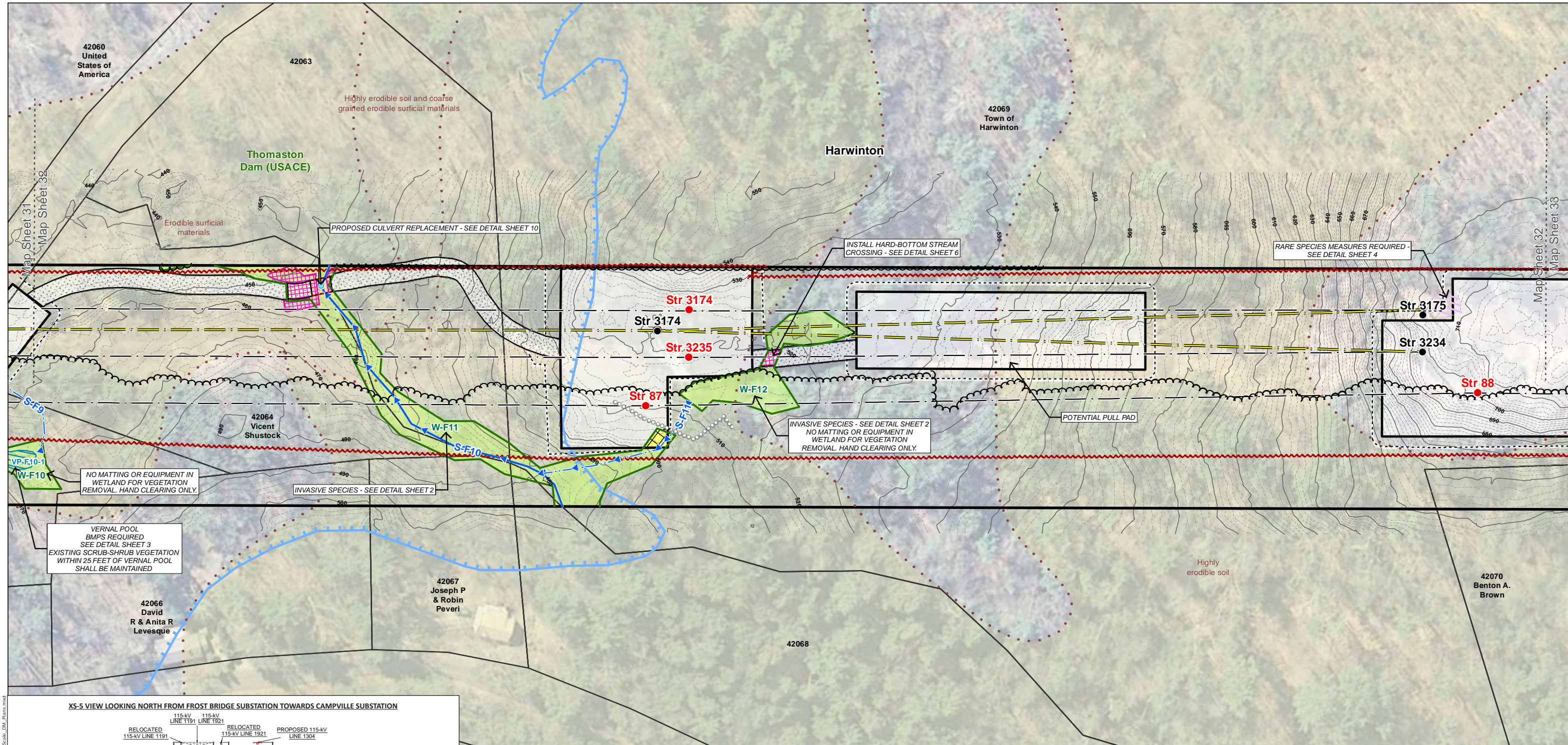
Litchfield, CT      Map Sheet 31A of 35

Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**

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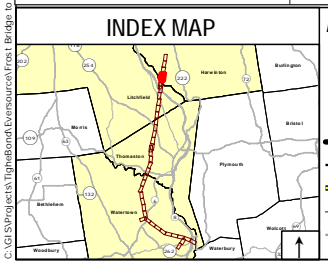




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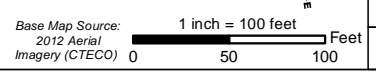
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
87	DELTA TANGENT	155	WEATHERING STEEL	DRILLED SHAFT
3235	VERTICAL DEADEND	155	WEATHERING STEEL	DRILLED SHAFT
3174	VERTICAL DEADEND	145	WEATHERING STEEL	DRILLED SHAFT
88	VERTICAL DEADEND	120	WEATHERING STEEL	DRILLED SHAFT



**Legend**

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- Structure to be Removed
- Existing Structure
- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
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**EVSOURCE ENERGY**

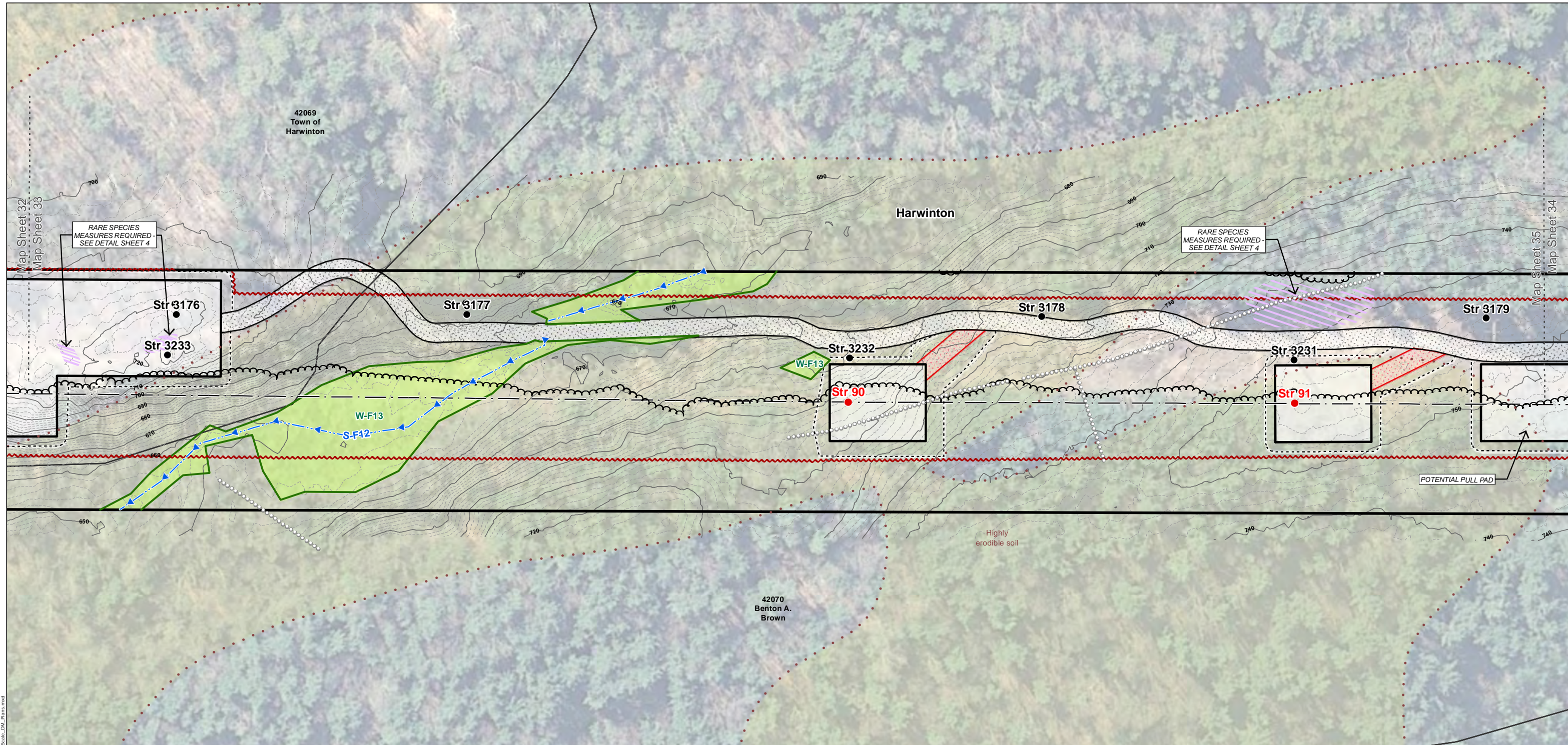
**Frost Bridge to Campville 115-kV Project Development & Management Plan**

Harwinton, CT | Map Sheet 32 of 35  
 Date: July, 2016 | Map Author: N. Castro

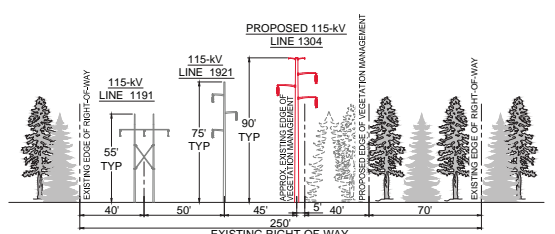
**Tighe & Bond** | ALL-POINTS TECHNOLOGY CORPORATION

NO.	DATE	REVISIONS	BY	CHK	APP	APP

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XS-6 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



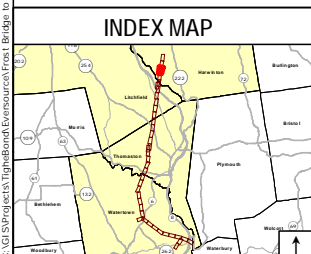
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STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
90	DELTA TANGENT	93.5	WEATHERING STEEL	DIRECT EMBEDDED
91	DELTA TANGENT	75	WEATHERING STEEL	DIRECT EMBEDDED



**Legend**

- Proposed Structure
- Structure to be Removed
- Existing Structure
- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
- Existing Transmission Line to be Removed
- 10' Contour Line
- 2' Contour Line
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NO.	DATE	REVISIONS	BY	CHK	APP	APP

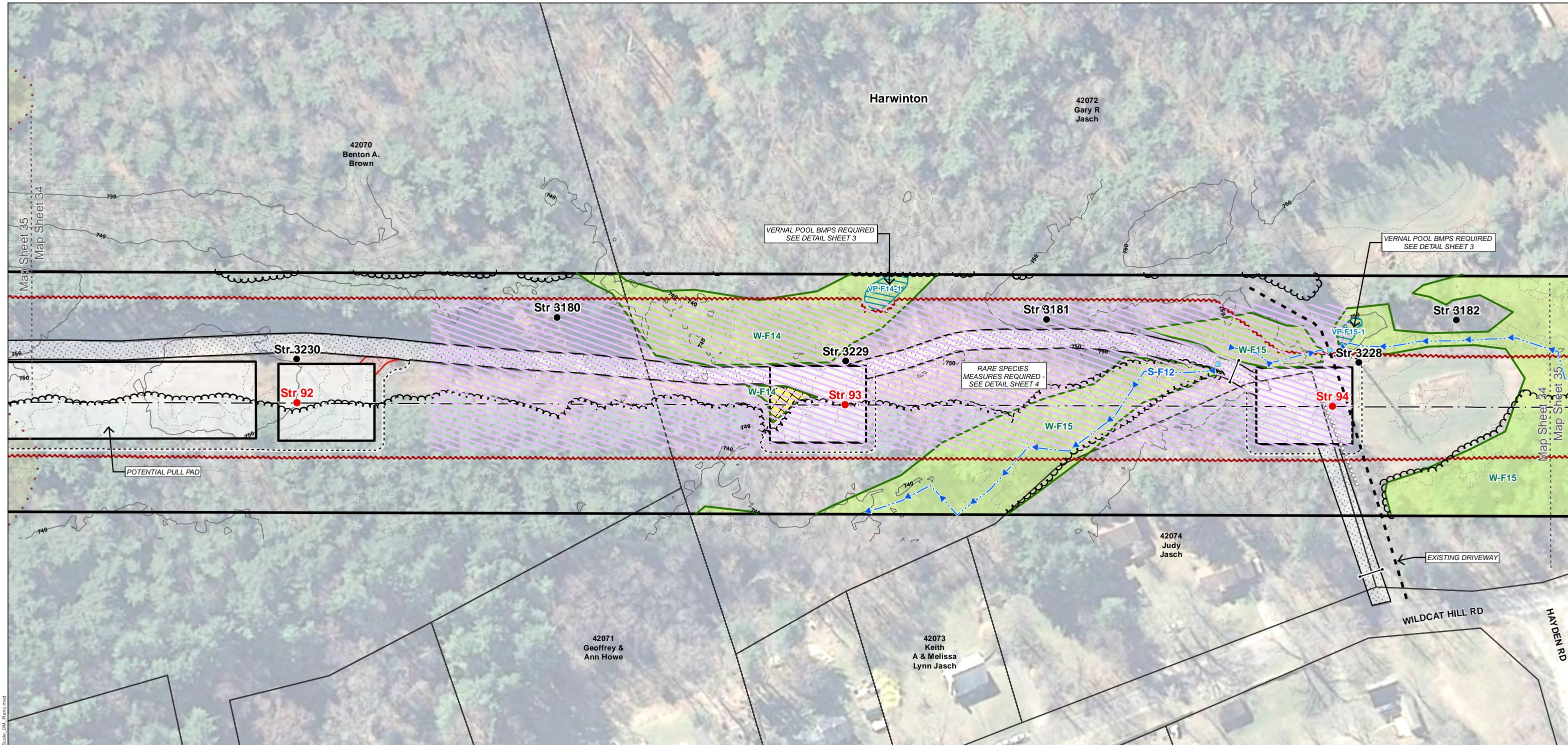
**EVSOURCE ENERGY**

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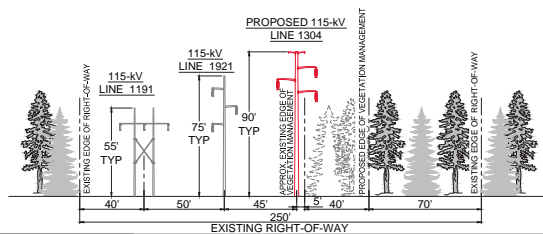
Harwinton, CT      Map Sheet 33 of 35  
Date: July, 2016      Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**

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XS-6 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



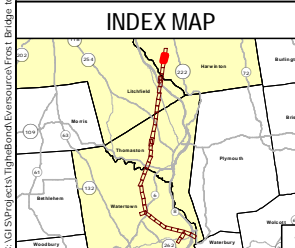
**WORK AREA BOUNDARIES IN / NEAR WETLANDS**

1. VEGETATION REMOVAL WILL OCCUR WITHIN THE VEGETATION REMOVAL LIMITS AS SHOWN, WITH TEMPORARY ACCESS ROUTES IN AND ACROSS WETLANDS AS NECESSARY UNLESS OTHERWISE NOTED. ADDITIONALLY, DANGER OR HAZARD TREE REMOVAL MAY BE REQUIRED OUTSIDE OF THE VEGETATION REMOVAL LIMITS.
2. ALL PROJECT CONSTRUCTION ACTIVITIES IN WETLANDS (EXCLUDING VEGETATION REMOVAL) WILL BE CONTAINED WITHIN THE DEPICTED WORK PADS AND ACCESS ROADS.

**GENERAL NOTES**

1. THE LIMITS OF DISTURBANCE AS SHOWN DEFINE AREAS WHERE VEGETATION REMOVAL AND GRUBBING, GRADING, AND EXCAVATION MAY OCCUR. MINOR DEVIATIONS MAY BE REQUIRED IN SOME LOCATIONS.
2. ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH THE RELEVANT PORTIONS OF EVERSOURCE'S BMP MANUAL: CONNECTICUT CONSTRUCTION AND MAINTENANCE ENVIRONMENTAL REQUIREMENTS (BMP MANUAL), UNLESS MORE STRINGENT PROJECT-SPECIFIC MEASURES APPLY.
3. ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF REGULATORY APPROVALS FROM THE U.S. ARMY CORPS OF ENGINEERS AND THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, AND WITH ALL PROJECT PROTOCOLS.
4. EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION, AS REQUIRED, TO COMPLY WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, AND EVERSOURCE'S BMP MANUAL, AND APPLICABLE REGULATORY APPROVALS.
5. ALL TEMPORARY ACCESS ROADS IN UPLANDS ARE DEEMED TO BE PERMANENT UNLESS OTHERWISE NOTED
6. EXISTING CULVERTS WILL BE PROTECTED AS DEEMED NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION
7. WETLAND INVASIVE SPECIES CONTROL BMPs APPLY TO WORK WITHIN ALL WETLANDS WITH INVASIVE SPECIES. SEE DETAIL SHEET 2
8. VERNAL POOL BMPs ARE REQUIRED WITHIN INDICATED AREAS AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR. SEE DETAIL SHEET 3
9. RARE SPECIES AVOIDANCE AND MINIMIZATION MEASURES ARE REQUIRED WITHIN INDICATED AREAS. SEE DETAIL SHEET 4
10. FARMLAND PROTECTION MEASURES ARE REQUIRED WITHIN INDICATED AREAS. SEE DETAIL SHEET 5

STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
92	DELTA TANGENT	75	WEATHERING STEEL	DIRECT EMBEDDED
93	DELTA TANGENT	84	WEATHERING STEEL	DIRECT EMBEDDED
94	DELTA TANGENT	79	WEATHERING STEEL	DIRECT EMBEDDED



**Legend**

- Proposed Structure
- ⊗ Structure to be Removed
- Existing Structure
- Existing Right-of-Way
- - - Proposed 115-kV Line (Centerline)
- - - Existing Transmission Line to be Removed
- - - 10' Contour Line
- - - 2' Contour Line
- ○ ○ ○ Stonewall
- X=X=X Fence
- Gate
- Tree Line
- Vegetation Removal Limits
- - - Limit of Disturbance
- Railroad
- Designated Recreation Trail
- ▲ Trail Points
- Work Pad
- Existing Access Road
- Existing Alternate Access Road
- New Access Road
- New Alternate Access Road
- New Temporary Access Road
- Proposed Substation Expansion
- Culvert (center)
- Intermittent Watercourse
- Perennial Watercourse
- Ordinary High Water Mark
- Wetland Boundary
- Wetland Area
- Connecticut Wetlands Only
- Temporary Wetland Impact
- Permanent Wetland Impact
- Vernal Pool
- Decoy Vernal Pool
- Highly Erodible Soils
- 100 Year Flood Zone
- Eversource Owned Property
- Parcel Boundary
- Municipal Boundary
- Map Sheet Matchline

Base Map Source: 2012 Aerial Imagery (CTECO) 1 inch = 100 feet Feet

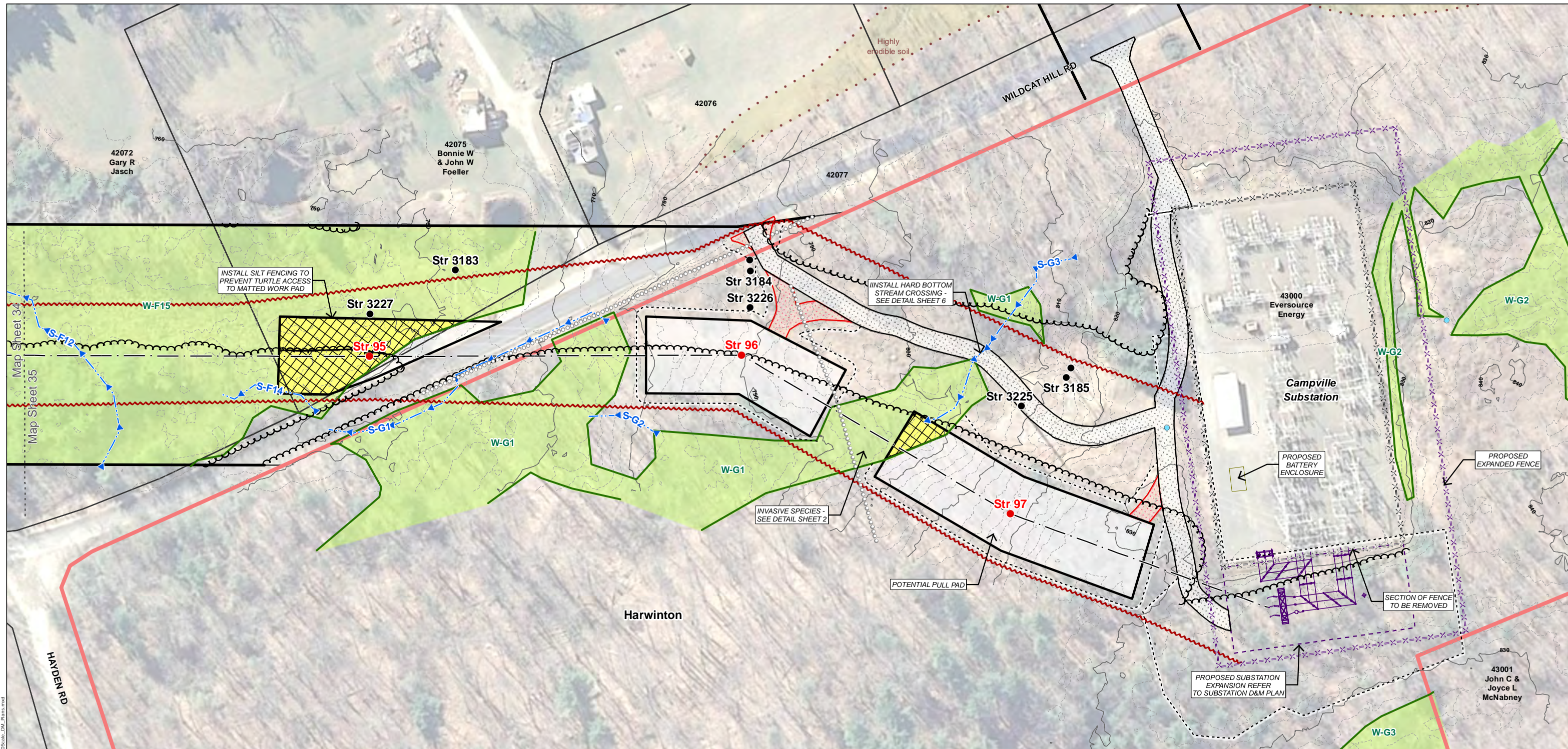
NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVSOURCE ENERGY**

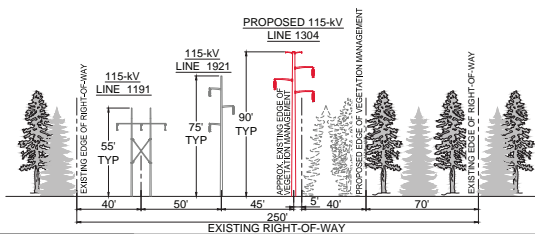
**Frost Bridge to Campville  
115-kV Project  
Development & Management Plan**

Harwinton, CT      Map Sheet 34 of 35  
Date: July, 2016      Map Author: N. Castro

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XS-6 VIEW LOOKING NORTH FROM FROST BRIDGE SUBSTATION TOWARDS CAMPVILLE SUBSTATION



**WORK AREA BOUNDARIES IN / NEAR WETLANDS**

1. VEGETATION REMOVAL WILL OCCUR WITHIN THE VEGETATION REMOVAL LIMITS AS SHOWN, WITH TEMPORARY ACCESS ROUTES IN AND ACROSS WETLANDS AS NECESSARY UNLESS OTHERWISE NOTED. ADDITIONALLY, DANGER OR HAZARD TREE REMOVAL MAY BE REQUIRED OUTSIDE OF THE VEGETATION REMOVAL LIMITS.
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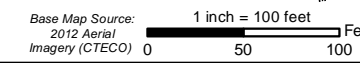
STR #	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
95	DELTA TANGENT	88.5	WEATHERING STEEL	DIRECT EMBEDDED
96	VERTICAL DEADEND	85	WEATHERING STEEL	DRILLED SHAFT
97	VERTICAL DEADEND	95	WEATHERING STEEL	DRILLED SHAFT

**INDEX MAP**



**Legend**

- Proposed Structure
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- Existing Structure
- Existing Right-of-Way
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- - - Existing Transmission Line to be Removed
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- Gate
- Tree Line
- Vegetation Removal Limits
- - - Limit of Disturbance
- Railroad
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- Trail Points
- Work Pad
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- New Temporary Access Road
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- Culvert (center)
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- Perennial Watercourse
- Ordinary High Water Mark
- Wetland Boundary
- Wetland Area
- Connecticut Wetlands Only
- Eversource Owned Property
- Parcel Boundary
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- Permanent Wetland Impact
- Rare Species
- Vernal Pool
- Decoy Vernal Pool
- Highly Erodible Soils
- 100 Year Flood Zone



NO.	DATE	REVISIONS	BY	CHK	APP	APP

**EVERSOURCE ENERGY**

**Frost Bridge to Campville  
115-kV Project  
Development & Management Plan**

Harwinton, CT	Map Sheet 35 of 35
Date: July, 2016	Map Author: N. Castro

**Tighe & Bond**      **ALL-POINTS TECHNOLOGY CORPORATION**

DEVELOPMENT AND MANAGEMENT PLAN  
VOLUME III

DETAIL SHEETS

Sheet 1: Permitted Water Resource Impacts

Sheet 2: Water Resource Protocols

Sheet 3: Vernal Pool Protocols

Sheet 4: Rare Species Avoidance and Minimization Measures

Sheet 5: Farmland Protection Measures

Sheet 6: Typical Detail Sheet 1 of 1

Sheet 7: Typical Detail Sheet 2 of 2

Sheet 8: Typical Structure Configurations

Sheet 9: Typical Foundation and Grounding Details

Sheet 10: Watercourse S-F11 Culvert Replacement Plan




Sheet 11: Watercourse S-F11 Culvert Replacement Cross Section and Details

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**PERMITTED WATER RESOURCE IMPACTS**

Permit Area	Wetland / Stream ID	Vernal Pool ID	D&M Map Sheet No.	Cowardin Code(s) / Stream Type	HGM Code(s)	Waters Type(s)	Latitude	Longitude	Activity Type					Discharge of Fill Materials (Summary Acres)			Forested Wetland Tree Clearing-Secondary Impacts - Acres (note that in some areas discharge of fill and secondary impacts are overlapping)
									Discharge of Fill Materials (Temporary Sq. Ft)		Discharge of Fill Materials			Temporary	Permanent	Total	
									(Permanent Sq. Ft)	Access Road	Clearing Access	Structure Foundation	Access Road				
N/A	W-A1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02*
1	W-A9	-	4	PSS1	RIVERINE	RPW/RPWW	41.6166	-73.0790	3,335	-	-	-	-	0.08	-	0.08	-
2	W-B2	VP B2-1	6	PSS1	DEPRESS	RPWW	41.6193	-73.0893	712	-	-	-	-	0.02	-	0.04	-
	W-B6	-	7	PSS1	SLOPE/ DEPRESS	RPWW	41.6214	-73.0925	877	-	-	-	-	0.02	-		
3	W-B11	-	9	PSS1/ POW	SLOPE/ DEPRESS	RPW/RPWW	41.6262	-73.1011	855	-	-	-	-	0.02	-	0.02	-
4	W-C1	-	10	PFO1/ PSS1	SLOPE	RPWW	41.6296	-73.1040	-	-	2,913	-	-	0.07	-	0.07	0.16
5	W-C4	DVP C4-1	10	PFO1/ PSS1	SLOPE	RPWW	41.6325	-73.1046	-	-	2,277	-	-	0.05	-	0.05	0.16
N/A	W-C10	VP C10-1	11	-	-	-	-	-	-	-	-	-	-	-	-	-	0.006*
6	W-C12	VP C12-1	11, 12	PSS1/ PFO1	SLOPE/ DEPRESS	RPWW	41.6368	-73.1057	-	-	2,315	-	-	0.05	-	0.05	0.11
7	W-C15	VP C15-1	12, 13	PFO1/ PSS1	SLOPE/ DEPRESS	RPW/RPWW	41.6398	-73.1064	1,184	-	6,879	-	-	0.19	-	0.19	0.31
8	W-C20	VP C20-1	14	PFO1/ PSS1	SLOPE/ DEPRESS	RPWW	41.6474	-73.1079	3,929	-	-	-	-	0.09	-	0.09	0.09
N/A	W-C21	VP C21-1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07* (.054 VP depression**)
9	W-D3	-	18	PFO1/ PSS1	SLOPE	RPW/RPWW	41.1003	-73.1003	1,026	-	2,580	-	-	0.08	-	0.08	0.18
N/A	W-D4	VP D4-1	19	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05* (.021 VP Depression**)
N/A	W-D5	VP C5-1	19	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01*
N/A	W-D7	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10*
10	W-D10	-	22	PFO1	SLOPE	RPWW	41.6787	-73.0975	-	-	3,184	-	-	0.07	-	0.13	0.58
	W-D11	-	22	PFO1/ PSS1	SLOPE/ DEPRESS	NRPWW	41.6797	-73.0974	-	-	2,384	-	-	0.05	-		
11	W-D12	VP D12-1	22	PSS1/PFO1	SLOPE	RPW/RPWW	41.6814	-73.0969	4,197	5,892	-	-	-	0.23	-	0.23	0.05
N/A	W-D13	-	23	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08*
12	W-E2	DVP E2-1/ E2-1	25, 26	PSS1/ PFO1	SLOPE/ DEPRESS	RPW/RPWW	41.6935	-73.0945	-	-	6,203	-	-	0.14	-	0.14	0.50
13	W-E4	-	26	PFO1/ PSS1	SLOPE	RPWW	41.6969	-73.0938	-	-	1,201	-	-	0.03	-	0.03	0.08
14	W-E6	-	26	PFO1	SLOPE	RPWW	41.6989	-73.0935	672	-	2,190	-	-	0.07	-	0.07	0.13
15	W-E8	-	27	PSS1/ PFO1	SLOPE	RPWW	41.7004	-73.0932	2,055	478	3,665	-	-	0.14	-	0.14	0.27
16	W-E9	VP E9-1	27, 28	PFO1/ PSS1	DEPRESS	RPW/RPWW	41.7042	-73.0926	739	-	5,670	-	-	0.13	-	0.13	0.31 (.17 VP Depression**)
17	W-E10	-	28	PSS1/ PFO1	DEPRESS	RPWW	41.7045	-73.0926	7,442	8,672	5,487	-	-	0.50	-	0.50	0.44
N/A	W-E13	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02*
18	W-E12	-	29	PEM2	SLOPE	RPWW	41.7092	-73.0919	636	-	-	-	-	0.01	-	0.01	-
N/A	W-F3	-	29	-	-	-	-	-	-	-	-	-	-	-	-	-	0.006*
19	W-F4	-	29	PFO1	SLOPE	RPW/RPWW	41.7113	-73.0913	221	-	-	-	-	0.005	-	0.08	0.25
	W-F7	-	29, 30	PEM1/ PFO1/ POW	SLOPE/ DEPRESS	RPW/RPWW	41.7129	-73.0909	-	-	3,195	-	-	0.07	-		
N/A	W-F10	VP F10-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.002*
20	W-F11	-	23	PFO1/ PSS1	SLOPE	RPW/RPWW	41.7220	-73.0897	335	-	-	1,505	-	0.008	0.02	0.04	0.18
	W-F12	-	23	PSS1/ PEM2	DEPRESS	RPWW	41.7233	-73.0893	-	-	-	232	-	-	0.005		
	S-F11	-	23	Perennial	-	RPW	41.7222	-73.0897	-	440	-	-	-	0.01	-		
21	W-F13	-	24	PEM2/ PFO1	DEPRESS	RPW/RPWW	41.7268	-73.0884	-	-	2,986	-	-	0.07	-	0.07	0.28
22	W-F14	VP F14-1	25	PSS1/ PFO1	DEPRESS	NRPWW	41.7320	-73.0874	894	-	-	-	-	0.02	-	0.02	-
23	W-F15	VP F15-1	25, 26	PFO1/ PSS1/ PEM2	RIVERINE/ DEPRESS	RPW/RPWW	41.7351	-73.0868	9,364	-	7,199	28	-	0.38	0.0006	0.38	0.75
24	W-G1	-	26	PFO1/ PSS1	SLOPE	RPW/RPWW	41.7366	-73.7366	1,223	-	2,433	-	-	0.08	-	0.08	0.24

\* Impacts are not associated with a discharge of fill material (not subject to jurisdiction under the current Connecticut General Permit)  
 \*\* Tree clearing in vernal pool depression is included in the total secondary impact number, but provided separately for distinction

								 Frost Bridge to Campville 115-kV Project Development & Management Plan			
								PERMITTED WATER RESOURCE IMPACTS Detail Sheet 01 of 11			
NO.	DATE	REVISIONS	BY	CHK	APP	APP					

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**WETLANDS AVOIDANCE AND MINIMIZATION MEASURES**

- A. COMPLY WITH RELEVANT PORTIONS OF EVERSOURCE’S BEST MANAGEMENT PRACTICES (BMP) MANUAL: CONNECTICUT CONSTRUCTION AND MAINTENANCE ENVIRONMENTAL REQUIREMENTS. (REFER TO VOLUME 2, ATTACHMENT D)
- B. COMPLY WITH THE CONDITIONS OF THE COUNCIL’S CERTIFICATE AND FEDERAL AND STATE PERMITS RELATED TO WETLANDS, INCLUDING THE IMPLEMENTATION OF WETLAND INVASIVE SPECIES CONTROL MEASURES DURING CONSTRUCTION. REFER TO WETLAND INVASIVE SPECIES CONTROL PLAN IN VOLUME 1, APPENDIX B.
- C. USE LOW-IMPACT EQUIPMENT AND INSTALL TEMPORARY TIMBER MATS (OR EQUIVALENT) TO MINIMIZE RUTTING DURING VEGETATION REMOVAL ACTIVITIES IN WETLANDS. REFER TO THE VEGETATION CLEARING PLAN IN VOLUME 1, APPENDIX A.
- D. MINIMIZE THE REMOVAL OF STUMPS WITHIN WETLANDS. STUMPS WILL ONLY BE REMOVED IF INTACT STUMPS POSE A SAFETY CONCERN FOR THE INSTALLATION OF ACCESS ROADS, WORK PADS, OR STRUCTURES; THE MOVEMENT OF EQUIPMENT; OR THE SAFETY OF PERSONNEL.
- E. INSTALL EROSION AND SEDIMENTATION CONTROLS AROUND WORK SITES IN OR NEAR WETLANDS TO DEFINE THE LIMITS OF CONSTRUCTION ACTIVITY AND TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED IN WETLANDS OUTSIDE OF THE WORK LIMITS DEFINED BY THE EROSION AND SEDIMENTATION CONTROLS.
- F. INSPECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS THROUGHOUT CONSTRUCTION. SEDIMENT THAT ACCUMULATES BEHIND THESE CONTROLS WILL PERIODICALLY BE REMOVED AND PLACED IN UPLAND AREAS, IN A MANNER THAT WILL PRECLUDE THE POTENTIAL FOR SUBSEQUENT DEPOSITION INTO WATERCOURSES OR OTHER WATERS OF THE U.S., OR WILL OTHERWISE BE DISPOSED OF OFF-SITE.
- G. INSTALL TEMPORARY CONSTRUCTION MATTING (TIMBER MATS OR EQUIVALENT) FOR ACCESS ROADS ACROSS WETLANDS OR TO ESTABLISH SAFE AND STABLE CONSTRUCTION WORK AREAS / WORK PADS WITHIN WETLANDS, WHERE NECESSARY.
- H. AVOID OR MINIMIZE ACCESS THROUGH WETLANDS, WHERE POSSIBLE. WHERE ACCESS ROADS MUST BE IMPROVED OR DEVELOPED, THE ROADS WILL BE DESIGNED, WHERE PRACTICAL, SO AS NOT TO INTERFERE WITH SURFACE WATER FLOW OR THE WETLAND FUNCTIONS.
- I. IMPLEMENT PROCEDURES TO AVOID OR MINIMIZE THE POTENTIAL FOR SPILLS INTO WETLANDS (REFER TO THE SPILL PREVENTION AND CONTROL PLAN IN VOLUME 2, ATTACHMENT B). NO FUEL WILL BE STORED OR EQUIPMENT REFUELED WITHIN 25 FEET OF ANY WETLAND, EXCEPT UNDER THE FOLLOWING CIRCUMSTANCE: EQUIPMENT THAT IS NOT READILY MOBILE OR MUST REMAIN ON-SITE FOR PROLONGED PERIODS TO SAFELY COMPLETE A CONSTRUCTION TASK (E.G., DRILLING RIGS OR CRANES FOR STRUCTURE INSTALLATION) MAY BE REFUELED IN WETLANDS, PROVIDING PROPER TEMPORARY SPILL PREVENTION, CONTROL, AND CONTAINMENT PROCEDURES ARE FOLLOWED.
- J. PROHIBIT VEHICLES OR EQUIPMENT FROM BEING PARKED OVERNIGHT ON ACCESS ROADS OR WORK PADS IN WETLANDS, EXCEPT FOR EQUIPMENT THAT CANNOT BE PRACTICALLY MOVED, SUCH AS CRANES OR DRILL RIGS.
- K. PROHIBIT MIXING, TESTING, STORAGE, OR DISPOSAL OF CONCRETE (USED FOR SOME STRUCTURE FOUNDATIONS) WITHIN 25 FEET OF WETLANDS.
- L. PROHIBIT STOCKPILING OF EXCESS SOIL GENERATED AS A RESULT OF STRUCTURE / FOUNDATION INSTALLATION WORK WITHIN WETLANDS, EXCEPT THAT SOILS OR OTHER EXCAVATED MATERIAL MAY BE TEMPORARILY STOCKPILED AND CONTAINED ON THE WORK PAD LOCATED WITHIN A WETLAND PRIOR TO TRANSPORT OFF-SITE. EXCESS SOIL WILL BE REMOVED FROM WETLAND WORK AREAS AND SPREAD IN UPLAND AREAS.
- M. REMOVE, FOLLOWING THE COMPLETION OF TRANSMISSION LINE WORK, TEMPORARY FILL MATERIALS FROM WORK SITES IN WETLANDS, INCLUDING ALL GEOTEXTILE FABRIC, AND TIMBER MATS USED FOR WORK PADS AND TEMPORARY ACCESS ROADS.
- N. RESTORE WETLANDS, AFTER TRANSMISSION FACILITY CONSTRUCTION, TO PRE-CONSTRUCTION CONFIGURATIONS AND CONTOURS TO THE EXTENT PRACTICABLE AND REVEGETATE WITH ANNUAL RYEGRASS, AN APPROPRIATE WETLAND SEED MIX, OR EQUIVALENT.
- O. INSPECT AND MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROLS UNTIL RESTORATION HAS BEEN DETERMINED TO BE EFFECTIVE AS DEFINED BY CONFORMANCE TO THE CT DEEP GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITIES (REFER TO VOLUME 2, ATTACHMENT E).

**WATERCOURSE AND WATERBODIES AVOIDANCE AND MINIMIZATION MEASURES**

THE FOLLOWING MEASURES WILL BE TAKEN TO AVOID OR MINIMIZE IMPACTS TO WATERCOURSES AND WATERBODIES DURING PROJECT ACTIVITIES. ALL WORK IN OR NEAR WATERCOURSES AND WATERBODIES WILL BE IN ACCORDANCE WITH PROJECT MAPPING, EVERSOURCE’S BMP MANUAL, AND THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

- A. PERFORM UNCONFINED IN-WATER ACTIVITIES DURING LOW-FLOW PERIODS (JUNE 1 THROUGH SEPTEMBER 30), UNLESS PRIOR WRITTEN APPROVAL FROM CT DEEP IS RECEIVED OR MANAGEMENT TECHNIQUES SUCH AS INSTALLATION OF TIMBER MATS TO SPAN THE CROSSING, TEMPORARY FLUME PIPES, CULVERTS, COFFERDAMS, ETC. ARE UTILIZED TO MAINTAINS NORMAL FLOWS WITHIN THE STREAM BOUNDARY’S CONFINES SO THE WORK DOES NOT OCCUR IN FLOWING WATERS.
- B. INSTALL AND MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROLS ALONG THE ROW WHERE CONSTRUCTION ACTIVITIES DISTURB SOILS NEAR WATERCOURSES. THESE CONTROLS WILL BE INSTALLED AND MAINTAINED TO PREVENT SEDIMENTATION INTO WATER RESOURCES. SEDIMENT THAT ACCUMULATES BEHIND THESE CONTROLS WILL PERIODICALLY BE REMOVED AND PLACED IN UPLAND AREAS, IN A MANNER THAT WILL PRECLUDE THE POTENTIAL FOR SUBSEQUENT DEPOSITION INTO WATERCOURSES OR OTHER WATERS OF THE U.S., OR WILL OTHERWISE BE DISPOSED OF OFF-SITE.
- C. ACCESS ROADS ACROSS WATERCOURSES WILL BE INSTALLED, WHERE PRACTICABLE, SO AS TO AVOID OR MINIMIZE DIRECT ADVERSE IMPACTS TO STREAM BANKS AND STREAM-BOTTOM SEDIMENTS, AS WELL AS TO PROVIDE UNOBSTRUCTED AMBIENT FLOW IN PERENNIAL STREAMS (E.G., SPAN CROSSINGS WILL PROVIDE ADEQUATE CLEARANCE ABOVE THE WATERCOURSE TO CONVEY FLOWS).
- D. MAJOR CONSTRUCTION EQUIPMENT WILL BE PROHIBITED FROM FORDING STREAMS. HOWEVER, DEPENDING ON SITE-SPECIFIC CONDITIONS, EQUIPMENT USED BY VEGETATION CLEARING CREWS MAY NEED TO CROSS SMALL WATERCOURSES TO ACCESS CLEARING AREAS. CLEARING CREWS MAY USE TIMBER MATS, OR CORDUROY, DEPENDING ON SITE SPECIFIC CONDITIONS. REFER TO THE VEGETATION CLEARING PLAN IN VOLUME 1, APPENDIX A.
- E. WHERE TEMPORARY CONSTRUCTION WORK PADS MUST BE CONSTRUCTED OVER WATERCOURSES, THE WORK PAD DESIGN WILL INCORPORATE MEASURES DESIGNED TO MAINTAIN FLOWS AND MINIMIZE AQUATIC HABITAT DISTURBANCE DURING THE CONSTRUCTION PERIOD.
- F. EXISTING RIPARIAN VEGETATION ALONG THE ROW WITHIN 25 FEET OF WATERCOURSE BANKS WILL BE MAINTAINED, TO THE EXTENT PRACTICABLE AND CONSISTENT WITH ROW VEGETATION MANAGEMENT REQUIREMENTS.
- G. APPROPRIATE BMPS WILL BE USED, AS DETERMINED BY SITE-SPECIFIC CONDITIONS, TO PREVENT OR MINIMIZE THE POTENTIAL FOR SEDIMENTATION INTO WATERCOURSES.
- H. MAT SPANS OR EQUIVALENT ACCESS ACROSS WATERCOURSES WILL BE PERIODICALLY SWEEPED, AS APPROPRIATE, TO MINIMIZE THE POTENTIAL FOR SOIL DEPOSITION INTO WATERCOURSES AS A RESULT OF VEHICLE / EQUIPMENT MOVEMENTS.
- I. MIXING, TESTING, STORAGE, AND DISPOSAL OF CONCRETE (USED FOR SOME STRUCTURE FOUNDATIONS) SHALL BE CONDUCTED IN A MANNER THAT PREVENTS DISCHARGE TO WATERCOURSES.
- J. EXCEPT FOR EQUIPMENT THAT IS NOT READILY MOBILE OR MUST REMAIN ON-SITE FOR PROLONGED PERIODS TO SAFELY COMPLETE A CONSTRUCTION TASK, CONSTRUCTION VEHICLES AND EQUIPMENT WILL NOT BE REFUELED WITHIN 25 FEET OF A WATERCOURSE. FOR REFUELING THAT MUST BE PERFORMED LESS THAN 25 FEET FROM A WATERCOURSE, APPROPRIATE SPILL PREVENTION MEASURES, AS DETAILED IN PROJECT SPILL PREVENTION AND CONTROL PLAN (REFER TO VOLUME 2, ATTACHMENT B), WILL BE APPLIED.
- K. NO BULK PETROLEUM PRODUCTS WILL BE STORED WITHIN 25 FEET OF A WATERCOURSE.
- L. AT THE FINAL PHASE OF CONSTRUCTION, TEMPORARY MAT SPANS ACROSS WATERCOURSES WILL BE REMOVED AND THE AFFECTED AREA OF EACH WATERCOURSE WILL BE RESTORED. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REMOVED UPON THE STABILIZATION OF EXPOSED SOILS NEAR WATERCOURSES.

**WETLAND RESTORATION**

IF NECESSARY, WETLAND AREAS AFFECTED BY CONSTRUCTION WILL BE STABILIZED WITH ANNUAL RYE GRASS, A WETLAND SEED MIX, OR AN EQUIVALENT MIX AT THE LABEL RECOMMENDED SEEDING RATE, WHICH WILL SERVE TO PROVIDE A TEMPORARY VEGETATIVE COVER UNTIL WETLAND SPECIES BECOME REESTABLISHED.

IF FINE GRADING IS NECESSARY, IT SHOULD BE DONE IN THE GROWING SEASON AND IN A MANNER THAT RETAINS THE EXISTING WETLAND TOPSOIL AND ROOT MASS TO THE EXTENT PRACTICABLE. ONCE COMPLETE, DISTURBED AREAS AFFECTED BT GRADING SHOULD BE SEEDED IMMEDIATELY

TEMPORARY EROSION AND SEDIMENT CONTROLS WILL BE LEFT IN PLACE AND MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED. RESTORATION TYPICALLY WILL BE DEEMED SUCCESSFUL BASED ON THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER. BASED ON THE RESULTS OF POST-CONSTRUCTION INSPECTIONS OF ROW STABILIZATION, EVERSOURCE WILL DETERMINE THE APPROPRIATE TIMEFRAME FOR REMOVING TEMPORARY EROSION CONTROLS.

**WETLAND INVASIVE SPECIES CONTROL BMPS**

TO CONTROL THE SPREAD OF WETLAND INVASIVE PLANT SPECIES, EVERSOURCE WILL REQUIRE CONSTRUCTION CONTRACTORS TO IMPLEMENT THE PROCEDURES DESCRIBED BELOW, AS APPROPRIATE TO THE CONSTRUCTION ACTIVITY BEING PERFORMED:

- A. ALL CONSTRUCTION EQUIPMENT, VEHICLES, AND MATERIALS (E.G., EQUIPMENT MATS) MUST BE CLEAN AND FREE OF EXCESS SOIL, DEBRIS, AND VEGETATION BEFORE BEING MOBILIZED TO THE PROJECT ROWS.
- B. TIMBER MATS OR EQUIVALENT (E.G., CORDUROY ROADS) WILL BE USED IN WETLANDS DURING CLEARING OPERATIONS TO MINIMIZE SPREAD OF INVASIVE SPECIES WITHIN A WETLAND BY THE CLEARING EQUIPMENT ITSELF.
- C. TO MINIMIZE THE POTENTIAL FOR SPREADING INVASIVE PLANT SPECIES FROM WETLAND-TO-WETLAND ALONG THE ROW, ANY EQUIPMENT WORKING IN OR TRAVERSING A WETLAND CONTAINING INVASIVE PLANT SPECIES WILL BE CLEANED PRIOR TO RELOCATING TO ANOTHER WORK SITE. CLEANING OF VEHICLES AND OTHER EQUIPMENT (INCLUDING THE TRACKS AND TIRES) WILL INVOLVE REMOVAL OF VISIBLE DIRT, DEBRIS AND VEGETATION THROUGH THE USE OF BROOMS, SHOVELS, AND, IF NEEDED, COMPRESSED AIR.
- D. TIMBER MATS OR EQUIVALENT WILL BE USED AT WETLAND CROSSINGS SO CONSTRUCTION VEHICLES THAT FREQUENTLY TRAVEL ALONG ON-ROW ACCESS ROADS, SUCH AS PICKUPS CARRYING PERSONNEL OR MATERIAL DELIVERY TRUCKS, CAN AVOID DIRECT WETLAND INTERACTION.
- E. MATS USED IN WETLANDS CONTAINING INVASIVE SPECIES WILL BE CLEANED PRIOR TO RELOCATION TO OTHER WORK AREAS OR WETLANDS. CLEANING OF MATTING WILL INVOLVE DROPPING MATS ONE ON TOP OF ANOTHER TO SHAKE LOOSE ANY SEDIMENT AND DEBRIS.
- F. FINAL RESTORATION OF THE ROW IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT VERSION OF THE EVERSOURCE BEST MANAGEMENT PRACTICES MANUAL CONSTRUCTION AND MAINTENANCE ENVIRONMENTAL REQUIREMENTS. IF “HAY BALE” EROSION CONTROLS ARE REQUIRED ON SITE, THE CONTRACTOR WILL BE REQUIRED TO USE ALTERNATIVE MEASURES, TO THE EXTENT PRACTICABLE AND IF LOCAL SOURCES ARE AVAILABLE, UTILIZE STRAW BALES, WATTLES, COCONUT ROLLS, WOOD CHIP BAGS OR SILT FENCE IN LIEU OF TRADITIONAL HAY BALES WHICH MAY CONTAIN NOXIOUS OR INVASIVE SEED STOCK OR PLANT MATTER. THIS IS ESPECIALLY IMPORTANT WHEN EROSION CONTROLS ARE INSTALLED ADJACENT TO WETLANDS.EFFORTS WILL BE MADE DURING CONSTRUCTION, TO THE EXTENT PRACTICABLE, TO MINIMIZE EQUIPMENT MOBILITY IN AREAS CONTAINING INVASIVE SPECIES SO AS TO AVOID DRAGGING INVASIVE PLANT MATERIAL BACK AND FORTH FROM ESTABLISHED STANDS INTO OTHER WETLANDS.

									 <b>Frost Bridge to Campville 115-kV Project Development &amp; Management Plan</b>
									<b>WATER RESOURCE PROTOCOLS</b>
									<b>Detail Sheet 02 of 11</b>
NO.	DATE	REVISIONS	BY	CHK	APP	APP			 

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POTENTIAL PROJECT EFFECTS TO AND BMPS FOR VERNAL POOLS

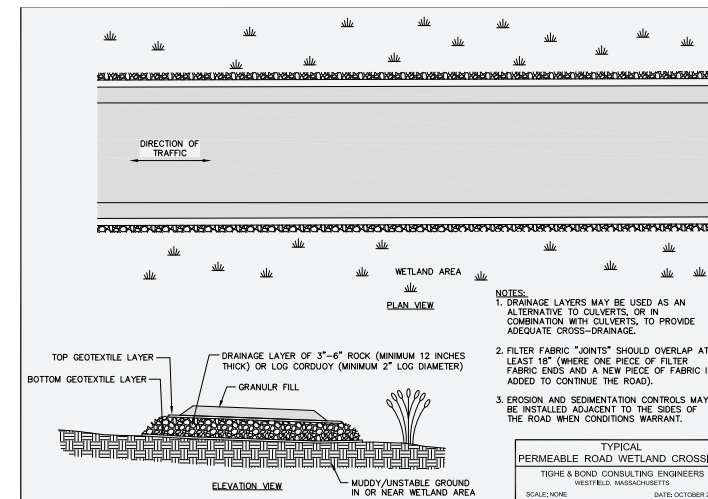
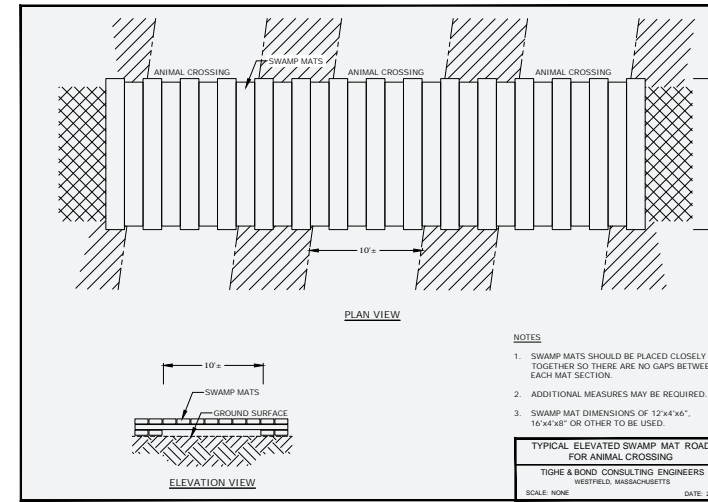
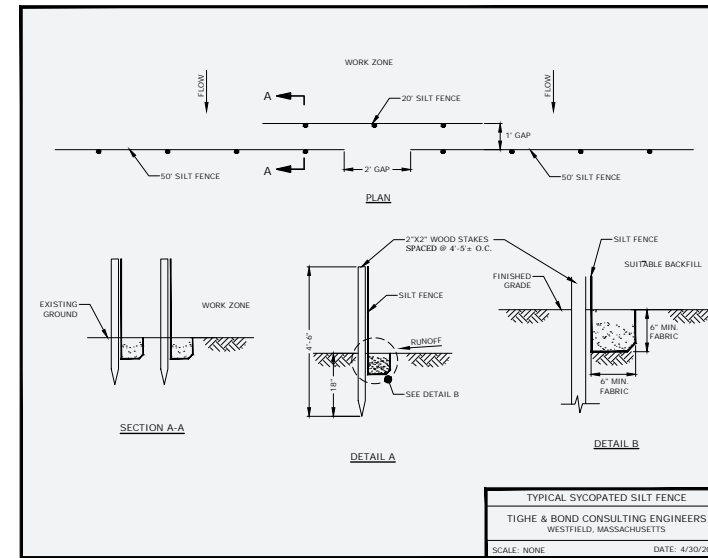
Map Sheet # / Town	Wetland #	Vernal Pool #	Work Proposed in 100' Vernal Pool Envelope (Access Roads and Work Pads)	Tree Clearing Required in 100' Vernal Pool Envelope of Potential Tier 1 Pool (acres / approximate # trees) <sup>2</sup>	Work Proposed in Vernal Pool Depression	Tree Clearing Required in Vernal Pool Depression (acres)	Best Management Practices to Minimize Impacts to Vernal Pools (Refer to D&M Mapsheets)
<b>Watertown</b>							
3A	W-MSF2	VP MSF-2	Access Road Improvements.	No tree clearing is anticipated, however side trimming may be necessary along the existing access road.	None	None	Syncopated silt fence and/or straw wattles on the south side of the existing access road – March through June
3A	W-MSF1	VP MSF-1	Access Road Improvements	No tree clearing is anticipated, however side trimming may be necessary along the existing access road.	None	None	Syncopated silt fence and/or straw wattles on the south side of the existing access road – March through June
6	W-B2	VP B2-1	Work Pad		None	None	Exclusion (silt) fencing around work pad – March through June
7	W-B4	VP B4-1	Access Road Improvements	No tree clearing is anticipated. The portion of vernal pool envelope within the Project ROW is presently cleared and maintained as scrub-shrub habitat.	None	None	If E&S controls are deemed necessary along the existing access road, syncopated silt fence and/or straw wattles – March through June
10	W-C4	DVP C4-1	Access Road Improvements		None	None	Road drainage improvements to eliminate surface water impoundment / decoy vernal pool – July through February
11	W-C10	VP C10-1	Tree Clearing, New Access Road, Work Pad		None	None	Where feasible, minimize new gravel fill within 100 feet of vernal pool Syncopated silt fence and/or straw wattles – March through June
11	W-C12	VP C12-1	Access Road Improvements		None	None	Syncopated silt fence and/or straw wattles – March through June Minimize the removal of shrub cover around vernal pool
13	W-C15	VP C15-1	Access Road Improvements		None	None	Syncopated silt fence and/or straw wattles – March through June Minimize the removal of shrub cover around vernal pool
14	W-C20	VP C20-1	Access Road Improvements, Work Pad		None	None	If feasible, avoid matting in vernal pool depression Exclusion (silt) fencing around work pad – March through June
15	W-C21	VP C21-1	Access Road Improvements, Work Pad		None	None	No equipment or matting in vernal pool depression Felling of trees into vernal pool should be avoided Minimize the removal of shrub cover around vernal pool Where feasible, minimize new gravel fill within 100 feet of vernal pool Syncopated silt fence and/or straw wattles – March through June
<b>Thomaston</b>							
19	W-D4	VP D4-1	Access Road Improvements		None	None	No equipment or matting in vernal pool depression Felling of trees into vernal pool should be avoided Minimize the removal of shrub cover around vernal pool Where feasible, minimize new gravel fill within 100 feet of vernal pool. Syncopated silt fence and/or straw wattles – March through June and September through October
19	W-D5	VP D5-1	Access Road Improvements, Tree Clearing		None	None	Syncopated silt fence and/or straw wattles – March through June
21	W-D15	VP D15-1	Work Pad		None	None	Exclusion (silt) fencing around work pad – March through June
22	W-D12	VP D12-1	Work Pad		None	None	Minimize the removal of shrub cover around vernal pool Where construction options allow, provide for amphibian access to and from vernal pool – March through June
<b>Litchfield</b>							
25, 26	W-E2	DVP E2-1 / E2-2	Access Road Improvements, Tree Clearing		None	None	Road drainage improvements to eliminate surface water impoundment / decoy vernal pool – July through February
28	W-E9	VP E9-1	Work Pad, Tree Clearing		None	None	No equipment or matting in vernal pool depression Felling of trees into vernal pool should be avoided Minimize the removal of shrub cover around vernal pool
<b>Harwinton</b>							
31	W-F9	VP F9-1	None anticipated		None	None	None
31, 32	W-F10	VP F10-1	Guard Structure Work Pad		None	None	Felling of trees into vernal pool should be avoided
34	W-F14	VP F14-1	Access Road, Work Pad		None	None	No removal of shrub cover within 25' of vernal pool
34	W-F15	VP F15-1	Work Pad		None	None	No removal of shrub cover within 20' vernal pool

**NOTES:**  
 1 Distance measured horizontally from closest edge of vernal pool depression to new line  
 2 Point sampling using a basal area 10 factor prism within the affected areas was utilized to determine tree density

**VERNAL POOL AVOIDANCE AND MINIMIZATION MEASURES**

THE FOLLOWING MEASURES WILL BE TAKEN TO AVOID OR MINIMIZE IMPACTS ON VERNAL POOL BREEDING HABITAT DURING CONSTRUCTION. ALL VERNAL POOLS WITHIN THE ROW ARE ILLUSTRATED ON THE MAPS. REFER TO POTENTIAL EFFECTS TO VERNAL POOLS, AND SITE SPECIFIC BMPS. THESE MEASURES WILL BE IMPLEMENTED TO THE EXTENT PRACTICABLE, TAKING INTO CONSIDERATION TERRAIN, SAFETY, AND CONSTRUCTION REQUIREMENTS:

- A. DURING TREE CLEARING AND VEGETATION REMOVAL ALONG THE ROW, ACCESS THROUGH VERNAL POOLS WILL BE AVOIDED.
- B. TREES THAT MUST BE REMOVED FROM THE ROW WILL NOT BE INTENTIONALLY FELLED INTO VERNAL POOLS. DIRECTIONAL FELLING, EXTENDED CABLE WINCHING, AND OTHER FORESTRY PRACTICES WILL BE USED IF APPROPRIATE AND FEASIBLE. IF TREES ARE FELLED INTO A VERNAL POOL, WHETHER OUT OF NECESSITY OR INADVERTENTLY, AND REMOVAL IS LIKELY TO CAUSE ADVERSE IMPACTS, THE TREES OR PARTS OF THE TREES MAY BE LEFT IN PLACE.
- C. EXCEPT IN AREAS WHERE ACCESS ROADS AND WORK PADS MUST BE INSTALLED, EXISTING SCRUB-SHRUB VEGETATION WITHIN 25 FEET OF VERNAL POOLS WILL BE MAINTAINED, CONSISTENT WITH ROW VEGETATION MANAGEMENT REQUIREMENTS. IF LOW GROWING (SCRUB-SHRUB) VEGETATION MUST BE REMOVED ADJACENT TO VERNAL POOLS, THE CUT VEGETATION (SLASH) WILL BE LEFT IN PLACE TO SERVE AS RECRUITMENT FOR LEAF LITTER AND COARSE WOODY DEBRIS.
- D. EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES WILL BE INSTALLED AND MAINTAINED ALONG CONSTRUCTION ACCESS ROADS AND AROUND WORK PADS AS NECESSARY TO PROTECT WATER QUALITY AND TO LIMIT THE POTENTIAL FOR SOIL DEPOSITION INTO VERNAL POOLS. SEDIMENT BUILT UP AGAINST THESE DEVICES WILL PERIODICALLY BE REMOVED AND PLACED IN UPLAND AREAS, IN A MANNER THAT WILL PRECLUDE THE POTENTIAL FOR SUBSEQUENT DEPOSITION INTO THE POOLS. (NOTE: THE SPECIFIC TYPES OF CONTROLS WILL BE DETERMINED IN THE FIELD, IN ACCORDANCE WITH EVERSOURCE'S BMP MANUAL AND CONSISTENT WITH STORMWATER MANAGEMENT REQUIREMENTS FOR THE PROJECT – SEE L, BELOW).
- E. PLASTIC NETTING, WHICH MAY BE FOUND IN A VARIETY OF EROSION CONTROL PRODUCTS (E.G., EROSION CONTROL BLANKETS, STRAW WATTLES, AND REINFORCED SILT FENCE), WILL NOT BE USED.
- F. DECOY VERNAL POOLS IN THE FORM OF SURFACE WATER IMPOUNDMENTS ALONG EXISTING ON-ROW ACCESS ROADS ARE SHOWN ON THE D&M PLAN MAPS (VOLUME 3). THESE FEATURES GENERALLY CONTAIN LITTLE VEGETATION FOR EGG MASS ATTACHMENT AND INSUFFICIENT HYDROPERIOD FOR SUCCESSFUL LARVAL DEVELOPMENT. EVERSOURCE WILL ATTEMPT TO PERFORM IMPROVEMENTS TO ACCESS ROADS AT THESE LOCATIONS OUTSIDE OF THE BREEDING AND MIGRATION SEASONS OF VERNAL POOL SPECIES TO ELIMINATE THESE FEATURES. IMPROVEMENTS SHOULD ATTEMPT TO IMPROVE DRAINAGE THROUGH THE SUBJECT ACCESS ROADS TO ELIMINATE OR REDUCE IMPOUNDMENT. FILLING OF DECOY POOLS IS NOT AUTHORIZED UNDER THE PROJECTS PERMIT APPROVALS.
- G. WHERE FEASIBLE, MINIMIZE THE USE OF GRAVEL FILL ASSOCIATED WITH ACCESS ROADS, CONSTRUCTION WORK PADS OR PULL PADS WITHIN VERNAL POOL ENVELOPES (0-100 FEET).
- H. TO THE EXTENT THAT CIRCUIT OUTAGE AND OTHER CONSTRUCTION TIMING CONSTRAINTS ALLOW, EVERSOURCE WILL ATTEMPT TO SCHEDULE THE INSTALLATION OF ACCESS ROADS AND WORK PADS IN AND AROUND VERNAL POOL HABITATS SO AS NOT TO INTERFERE WITH AMPHIBIAN BREEDING AND MIGRATION SEASONS (MARCH THROUGH JUNE FOR ALL VERNAL POOLS AND SEPTEMBER THROUGH OCTOBER FOR VERNAL POOL D4-1). FOR PROJECT ACTIVITIES THAT MUST OCCUR ADJACENT TO OR WITHIN VERNAL POOLS DURING AMPHIBIAN MIGRATION PERIODS, (MARCH THROUGH JUNE FOR ALL VERNAL POOLS AND SEPTEMBER THROUGH OCTOBER FOR VERNAL POOL D4-1). MEASURES WILL BE IMPLEMENTED ON A SITE-SPECIFIC BASIS AS NECESSARY TO FACILITATE UNENCUMBERED AMPHIBIAN ACCESS TO AND FROM VERNAL POOLS. MITIGATION MEASURES WILL BE IDENTIFIED AFTER TAKING INTO CONSIDERATION SITE-SPECIFIC CONDITIONS, INCLUDING THE TYPE OF CONSTRUCTION ACTIVITY IN PROXIMITY TO A VERNAL POOL, THE AMPHIBIAN SPECIES KNOWN TO OCCUR IN THE VERNAL POOL, AND SEASONAL CONDITIONS. OPTIONS TO BE EVALUATED TO ALLOW AMPHIBIAN ACCESS TO VERNAL POOLS MAY INCLUDE, BUT NOT BE LIMITED TO SYNCOPATED SEDIMENTATION CONTROL FENCING OR WATTLES IN THE IMMEDIATE VICINITY OF VERNAL POOLS; ELEVATED CONSTRUCTION MATTING, AND ALIGNING EROSION AND SEDIMENTATION CONTROLS TO AVOID BIFURCATING VERNAL POOL HABITAT. INSTALLATION OF ANY MITIGATION DEVICES WILL BE BASED ON FIELD AND SEASONAL CONDITIONS, AND WILL DEPEND ON SPECIES-SPECIFIC REQUIREMENTS. FURTHER, IN SOME CASES, THE OBJECTIVE MAY BE TO FENCE OFF CONSTRUCTION AREAS NEAR VERNAL POOLS, ALLOWING AMPHIBIAN ACCESS AROUND SUCH AREAS ENTIRELY.
- I. EROSION AND SEDIMENTATION CONTROL DEVICES WILL BE PROMPTLY REMOVED UPON FINAL REVEGETATION AND STABILIZATION OF THE ROW.



							<b>EVERSOURCE ENERGY</b>	
							<b>Frost Bridge to Campville 115-kV Project Development &amp; Management Plan</b>	
							<b>VERNAL POOL PROTOCOLS</b>	
							<b>Detail Sheet 03 of 11</b>	
NO.	DATE	REVISIONS	BY	CHK	APP	APP		

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## RARE SPECIES AVOIDANCE AND MINIMIZATION MEASURES

**WOOD TURTLE (*GLYPTEMYS INSCULPTA*)**

**SPECIES DESIGNATION:** SPECIAL CONCERN

**PROJECT ROW HABITAT:**

- CONTACT EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING

**SITE-SPECIFIC IMPACT AVOIDANCE AND MINIMIZATION MEASURES:**

EVERSOURCE DOES NOT ANTICIPATE ANY WORK ASSOCIATED WITH THE CONSTRUCTION OF THE NEW TRANSMISSION LINES TO OCCUR WITHIN WATERBODIES KNOWN TO, OR POTENTIALLY SUPPORTING THIS SPECIES (BRANCH BROOK, NORTHFIELD BROOK, OR THE NAUGATUCK RIVER). ALTHOUGH THE CONSTRUCTION OF THE PROPOSED PROJECT IS UNLIKELY TO AFFECT TURTLES DURING THE HIBERNATING PERIOD, IT IS POSSIBLE THAT ACTIVITIES (E.G., VEGETATION REMOVAL AND GRADING) PERFORMED IN TERRESTRIAL HABITATS ALONG THE ROW DURING THE TURTLES ACTIVE PERIOD (APRIL THROUGH OCTOBER) COULD ADVERSELY AFFECT INDIVIDUAL TURTLES. FOR EXAMPLE, TURTLES COULD BE KILLED OR TEMPORARILY DISPLACED AS A RESULT OF CONSTRUCTION ACTIVITIES. HOWEVER, WHEN CONSTRUCTION IS COMPLETE, THE TURTLES WOULD ONCE AGAIN UTILIZE THESE HABITATS.

IN ORDER TO MINIMIZE THE POTENTIAL FOR ADVERSE EFFECTS TO WOOD TURTLES, THE FOLLOWING ARE PROTECTION STRATEGIES AND TECHNIQUES PROPOSED FOR THE PROTECTION OF THIS SPECIES DURING PROJECT CONSTRUCTION ACTIVITIES:

GENERAL:

- A CONTRACTOR AWARENESS PROGRAM WILL BE DEVELOPED AND IMPLEMENTED TO ENSURE THAT CONTRACTORS WORKING IN THE AREA HAVE BEEN INSTRUCTED ON THE PROPER RESPONSE IN THE EVENT THAT A WOOD TURTLE IS OBSERVED IN THE WORK AREA.

FOR CONSTRUCTION ACTIVITIES DURING THE WOOD TURTLE'S INACTIVE SEASON (NOVEMBER 1 TO APRIL 1):

- THE REMOVAL OF LOW-GROWTH VEGETATION AND TREE STUMPS ADJACENT TO THE BANKS OF IDENTIFIED SUITABLE RIPARIAN HABITAT WILL BE AVOIDED AND MINIMIZED TO THE GREATEST EXTENT POSSIBLE.
- MOWING IN PREPARATION OF PROJECT CONSTRUCTION ACTIVITIES WILL BE LIMITED TO WORK AREAS AND, TO THE EXTENT PRACTICABLE, CONDUCTED IN THE INACTIVE SEASON, BETWEEN NOVEMBER 1 AND APRIL 1.

FOR CONSTRUCTION ACTIVITIES DURING THE WOOD TURTLE'S ACTIVE SEASON (APRIL 1 TO NOVEMBER 1):

- A SWEEP OF THE WORK AREA SHALL BE CONDUCTED PRIOR TO HEAVY MACHINERY ACCESS, CONSTRUCTION, AND/OR MOWING TO LOOK FOR BASKING TURTLES.
- IF MOWING DURING THE ACTIVE SEASON IS REQUIRED, VEGETATION WILL BE MOWED TO NO LOWER THAN 7 INCHES. FLAIL-TYPE MOWERS WILL NOT BE USED FOR MOWING IN THE ACTIVE SEASON.
- ANY TURTLE ENCOUNTERED DURING CONSTRUCTION WILL BE MOVED, UNHARMED, TO AN AREA IMMEDIATELY OUTSIDE OF THE WORK AREA, AND POSITIONED IN THE SAME DIRECTION THAT IT WAS HEADING WHEN DISCOVERED. WORKERS WILL BE INFORMED THAT TURTLES SHOULD NEVER BE MOVED OFF SITE.
- ALL SILT FENCING WILL BE REMOVED AFTER WORK IS COMPLETED AND SOILS ARE STABLE SO THAT REPTILE AND AMPHIBIAN MOVEMENT IS NOT RESTRICTED.
- ANY CONFIRMED SIGHTINGS OF THIS SPECIES WILL BE REPORTED TO THE CT DEEP NDDB.

**NORTHERN SPRING SALAMANDER (*GYRINOPHILUS PORPHYRITICUS*)**

**SPECIES DESIGNATION:** THREATENED

**PROJECT ROW HABITAT:**

- CONTACT EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING

**SITE-SPECIFIC IMPACT AVOIDANCE AND MINIMIZATION MEASURES:**

THE FOLLOWING MEASURES ARE PROPOSED FOR THE PROTECTION OF THIS SPECIES DURING CONSTRUCTION ACTIVITIES:

- IMPLEMENT EROSION AND SEDIMENTATION CONTROLS THAT INCORPORATE BEST MANAGEMENT PRACTICES TO MINIMIZE OR AVOID SEDIMENT DEPOSITION INTO WETLANDS DRAINING TO THE SPRING SALAMANDER'S STREAM HABITAT; AND/OR
- CONDUCT CONSTRUCTION-PHASE STORMWATER MONITORING TO DOCUMENT THE CONDITION AND, AS NECESSARY, THE MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS AND BEST MANAGEMENT PRACTICES. PROMPT CONTRACTOR RESPONSE TO REPAIR / MAINTAIN THESE CONTROLS, AS REQUIRED PURSUANT TO REGULATORY APPROVALS, WILL AVOID OR MINIMIZE THE POTENTIAL FOR DISCHARGE OF SEDIMENT TO WETLANDS AND WATERCOURSES, OR DEGRADATION OF WATER QUALITY, WHICH MIGHT ADVERSELY AFFECT THIS SPECIES.

**SMOOTH GREEN SNAKE (*LIOCHLOROPHIS VERNALIS*)**

**SPECIES DESIGNATION:** SPECIAL CONCERN

**PROJECT ROW HABITAT:**

- CONTACT EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING

**SITE-SPECIFIC IMPACT AVOIDANCE AND MINIMIZATION MEASURES:**

THE FOLLOWING ARE PROTECTION STRATEGIES AND TECHNIQUES PROPOSED FOR THE PROTECTION OF THIS SPECIES DURING PROJECT CONSTRUCTION ACTIVITIES:

- A CONTRACTOR AWARENESS PROGRAM WILL BE DEVELOPED AND IMPLEMENTED TO ENSURE THAT CONTRACTORS WORKING IN THE AREA HAVE BEEN INSTRUCTED ON THE PROPER RESPONSE IN THE EVENT THAT A SMOOTH GREEN SNAKE IS OBSERVED IN THE WORK AREA.
- IF ANY SNAKES ARE OBSERVED, CONSTRUCTION PERSONNEL WILL SAFELY RELOCATE THEM TO AN AREA IMMEDIATELY OUTSIDE OF THE CONSTRUCTION FOOTPRINT.
- ANY SILT FENCE UTILIZED WILL BE REMOVED AFTER CONSTRUCTION IS COMPLETE AND SOILS ARE STABILIZED.
- ANY CONFIRMED SMOOTH GREEN SNAKE SIGHTINGS WILL BE REPORTED TO THE CT DEEP NDDB.

**FROSTED ELFIN BUTTERFLY (*CALLOPHRYS IRUS*)**

**SPECIES DESIGNATION:** THREATENED

**PROJECT ROW HABITAT:**

- CONTACT EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING

**SITE-SPECIFIC IMPACT AVOIDANCE AND MINIMIZATION MEASURES:**

THE FOLLOWING CONSERVATION MEASURES ARE PROPOSED TO AVOID AND MINIMIZE IMPACTS TO HOST PLANTS AND POTENTIAL INDIRECT EFFECTS ON FROSTED ELFIN:

- PRIOR TO COMMENCEMENT OF CONSTRUCTION IN THE HOST PLANT AREAS, THE BOUNDARIES OF HOST PLANT COMMUNITIES WILL BE FLAGGED IN THE FIELD;
- A CONTRACTOR AWARENESS PROGRAM WILL BE DEVELOPED AND IMPLEMENTED TO ENSURE THAT CONTRACTORS HAVE KNOWLEDGE OF THE PRESENCE OF THE HOST PLANT COMMUNITIES NEAR WORK AREAS;
- TEMPORARY IMPACTS TO IDENTIFIED HOST PLANT COMMUNITIES WILL BE REDUCED TO THE EXTENT PRACTICABLE BY MINIMIZING MOWING AND GROUND DISTURBANCE OUTSIDE OF THE AREAS REQUIRED TO SAFELY COMPLETE THE NECESSARY CONSTRUCTION ACTIVITIES;
- CONSTRUCTION-PHASE ENVIRONMENTAL MONITORING BY QUALIFIED PERSONNEL WILL BE PROVIDED DURING CONSTRUCTION; AND
- WHERE STABILIZED VEGETATION REPLACING BARE SOIL IS NECESSARY FOLLOWING CONSTRUCTION, ONLY ANNUAL SEED MIXTURES SHALL BE USED TO PREVENT THE INTRODUCTION AND ESTABLISHMENT OF NON-NATIVE SPECIES.

**SPOTTED TURTLE (*CLEMMYS GUTTATA*)**

**SPECIES DESIGNATION:** SPECIAL CONCERN

**PROJECT ROW HABITAT:**

- CONTACT EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING



**SITE-SPECIFIC IMPACT AVOIDANCE AND MINIMIZATION MEASURES:**

THE FOLLOWING MEASURES ARE PROPOSED FOR THE PROTECTION OF SPOTTED TURTLE IN PROXIMITY TO VERNAL POOL [REDACTED]:

- A CONTRACTOR AWARENESS PROGRAM WILL BE DEVELOPED AND IMPLEMENTED TO ENSURE THAT CONTRACTORS WORKING IN THE AREA HAVE BEEN INSTRUCTED ON THE PROPER RESPONSE IN THE EVENT THAT A SPOTTED TURTLE IS OBSERVED IN THE WORK AREA.
- THE REMOVAL OF LOW-GROWTH VEGETATION AND TREE STUMPS ADJACENT TO THE BANKS OF IDENTIFIED HABITAT WILL BE AVOIDED AND MINIMIZED TO THE GREATEST EXTENT POSSIBLE.
- TO THE EXTENT PRACTICABLE, MOWING IN PROXIMITY TO [REDACTED] IN PREPARATION OF PROJECT CONSTRUCTION ACTIVITIES WILL BE LIMITED TO WORK AREAS AND CONDUCTED IN THE INACTIVE SEASON, BETWEEN NOVEMBER 1 AND MARCH 1.

FOR CONSTRUCTION ACTIVITIES DURING THE SPOTTED TURTLE'S ACTIVE SEASON (MARCH 1 TO NOVEMBER 1):

- EXCLUSION FENCING WILL BE INSTALLED AROUND THE WORK PAD FOR PROPOSED STRUCTURE [REDACTED] IN A MANNER THAT PRECLUDES ACCESS BY SPOTTED TURTLES.
- IF NECESSARY, EROSION CONTROL MEASURES INSTALLED ALONG THE EXISTING ACCESS ROAD BETWEEN PROPOSED STRUCTURES [REDACTED] SHOULD BE DESIGNED IN A MANNER THAT ALLOWS UNENCUMBERED MOVEMENT BY SPOTTED TURTLES. SUCH MEASURES MAY INCLUDE, BUT NOT BE LIMITED TO THE USE OF SYNCOPATED SILT FENCING AND/OR STRAW WATTLES, AND THE ALIGNMENT OF EROSION AND SEDIMENTATION CONTROLS TO AVOID BIFURCATING SUITABLE WETLAND HABITAT.
- A SWEEP OF THE WORK AREAS NEAR STRUCTURES [REDACTED] SHALL BE CONDUCTED PRIOR TO HEAVY MACHINERY ACCESS, CONSTRUCTION, AND/OR MOWING TO LOOK FOR BASKING TURTLES.
- IN THE VICINITY OF STRUCTURES [REDACTED] IF MOWING DURING THE ACTIVE SEASON IS REQUIRED, VEGETATION WILL BE MOWED TO NO LOWER THAN 7 INCHES. FLAIL-TYPE MOWERS WILL NOT BE USED FOR MOWING IN THE ACTIVE SEASON.
- ANY TURTLE ENCOUNTERED DURING CONSTRUCTION WILL BE MOVED, UNHARMED, TO AN AREA IMMEDIATELY OUTSIDE OF THE WORK AREA, AND POSITIONED IN THE SAME DIRECTION THAT IT WAS HEADING WHEN DISCOVERED. WORKERS WILL BE INFORMED THAT TURTLES SHOULD NEVER BE MOVED OFF SITE.
- ALL EROSION CONTROL MEASURES AND EXCLUSION FENCING WILL BE REMOVED AFTER WORK IS COMPLETED AND SOILS ARE STABLE SO THAT REPTILE AND AMPHIBIAN MOVEMENT IS NOT RESTRICTED.
- ANY CONFIRMED SIGHTINGS OF THIS SPECIES WILL BE REPORTED TO THE CT DEEP NDDB

										<b>EVERSOURCE</b> ENERGY
										<b>Frost Bridge to Campville 115-kV Project Development &amp; Management Plan</b>
										<b>RARE SPECIES AVOIDANCE &amp; MINIMIZATION MEASURES</b>
										<b>Detail Sheet 04 of 11</b>
NO.	DATE	REVISIONS	BY	CHK	APP	APP				

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**FARMLAND PROTECTION MEASURES**

THE FOLLOWING MEASURE SHOULD BE USED IF INSTALLATION OF TEMPORARY GRAVEL ACCESS THROUGH ACTIVE FARMLAND IS FOUND PREFERABLE TO PLACEMENT OF TEMPORARY SWAMP MATS:

- A. NO NEW PERMANENT ACCESS ROADS WILL BE LOCATED IN ACTIVE FARMLAND UNLESS APPROVED BY THE LANDOWNER.
- B. TEMPORARY ACCESS ROADS AND WORK PADS WILL BE SITED, TO THE EXTENT PRACTICABLE, TO AVOID OR MINIMIZE DISRUPTIONS TO ACTIVE FARM USES.
- C. EXCEPT FOR EQUIPMENT THAT CANNOT PRACTICALLY BE MOVED ONCE IN PLACE (E.G., CRANES), NO EQUIPMENT OR VEHICLE REFUELING WILL BE PERFORMED IN ACTIVE FARMLAND. IF EQUIPMENT REFUELING MUST BE CONDUCTED IN ACTIVE FARMLANDS, APPROPRIATE LEAK AND SPILL PREVENTION MEASURES WILL BE USED AS SPECIFIED IN THE PROJECT SPILL PREVENTION AND COUNTERMEASURES PLAN (REFER TO VOLUME 2, ATTACHMENT B).
- D. AGRICULTURAL DRAINAGE AND EROSION CONTROL FEATURES (E.G., DITCHES, SWALES) WILL BE AVOIDED DURING CONSTRUCTION TO THE EXTENT PRACTICABLE. IF AVOIDANCE IS NOT POSSIBLE, THE CONSTRUCTION CONTRACTOR WILL TAKE APPROPRIATE MEASURES TO MAINTAIN THE EFFECTIVENESS OF THE EXISTING FEATURES. ANY DRAINAGE FEATURES DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE REPAIRED.
- E. HAY BALES (WHICH MAY CONTAIN SEEDS INAPPROPRIATE TO FARM USE) WILL NOT BE USED FOR TEMPORARY EROSION AND SEDIMENTATION CONTROL IN ACTIVE FARMLANDS UNLESS SPECIFICALLY APPROVED BY THE FARMER. INSTEAD, STRAW BALES, WEED-FREE HAY, OR OTHER TYPES OF EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE USED AS APPROPRIATE.
- F. NO VEHICLES OR EQUIPMENT WILL BE ALLOWED OUTSIDE THE IDENTIFIED WORK AREAS (VEGETATION REMOVAL LIMITS), EXCEPT TO REMOVE, STOCKPILE, AND PROCESS FOREST VEGETATION AS MAY BE NECESSARY TO MAINTAIN MANDATED CLEARANCE FROM THE TRANSMISSION LINE CONDUCTORS, OR TO INSTALL COUNTERPOISE AS NEEDED.
- G. IF THE CONSTRUCTION WORK AREA DIVIDES AN ACTIVE FARMLAND AREA, UPON THE FARMER'S REQUEST, APPROPRIATE ACCESS WILL BE PROVIDED ACROSS THE CONSTRUCTION ZONE FOR FARM USES AND TEMPORARY FENCING AND GATES WILL BE INSTALLED IF NEEDED.
- H. ACCESS ROADS AND WORK PADS WILL BE BUILT IN ACCORDANCE WITH THE SPECIFICATIONS FOR WORK IN FARMLANDS
- I. ACCESS ROADS WILL BE MAINTAINED THROUGHOUT CONSTRUCTION TO ALLOW SAFE USE AND, IF REQUESTED BY THE FARMER, CROSSING BY FARM MACHINERY.
- J. SILT FENCE OR SIMILAR MEASURES WILL BE INSTALLED ALONG BOTH SIDES OF GRAVEL ACCESS ROADS AND AROUND GRAVEL WORK PADS TO PREVENT THE MIXING OF GRAVEL WITH SUBSOIL OR WITH ADJACENT TOPSOIL.
- K. CONSTRUCTION EQUIPMENT AND VEHICLES WILL USE ONLY DESIGNATED ACCESS ROADS. NO VEHICLE OR EQUIPMENT PARKING WILL BE ALLOWED OUTSIDE OF THE IDENTIFIED AC-CESS ROADS AND WORK PADS.
- L. EXCAVATED SUBSOIL AND ROCK WILL NOT BE STOCKPILED OR SPREAD ON ACTIVE FARMLAND OR ON TOPSOIL STOCKPILES. EXCESS EXCAVATED SUBSOIL AND ROCK WILL BE REMOVED FROM ACTIVE FARMLANDS AND RELOCATED TO AN APPROPRIATE AREA WITHIN THE ROW ON THE SAME PROPERTY FROM WHICH IT WAS REMOVED.
- M. CONCRETE TRUCKS WILL BE RESTRICTED TO DESIGNATED ACCESS ROADS AND WORK PADS. CONCRETE TRUCK WASHOUT AREAS WILL NOT BE LOCATED WITHIN ACTIVE FARMLANDS.
- N. TO THE EXTENT PRACTICAL, GUY WIRES AND ANCHORS WILL BE PLACED OUTSIDE OF ACTIVE FARMLAND.
- O. ALL GUY WIRES WILL BE SHIELDED WITH HIGHLY VISIBLE GUARDS.
- P. GROUND RINGS, GROUND RODS, AND COUNTERPOISE WILL BE BURIED TO PROVIDE A MINIMUM DEPTH OF 24 INCHES.
- Q. IN AREAS WHERE TOPSOIL HAS BEEN REMOVED (E.G., WITHIN THE FOOTPRINT OF WORK PADS AND ACCESS ROADS WHERE GRAVEL IS USED), GROUND RINGS, GROUND RODS, AND COUNTERPOISE MAY BE INSTALLED PRIOR TO THE REPLACEMENT OF TOPSOIL.
- R. IN AREAS WHERE TOPSOIL HAS NOT BEEN REMOVED, GROUNDING SYSTEMS WILL BE DIRECTLY EMBEDDED THROUGH TOPSOIL AND SUBSOIL LAYERS.

**SOIL EROSION AND SEDIMENT CONTROL**

EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES WILL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED THROUGHOUT TO AVOID OR MINIMIZE THE POTENTIAL FOR SURFACE WATER RUNOFF, EROSION, AND SEDIMENTATION TO OCCUR OUTSIDE OF WORK LIMITS. THESE MEASURES WILL COMPLY WITH THE 2002 CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL ([HTTP://WWW.CT.GOV/DEEP/LIB/DEEP/WATER\\_INLAND/SEEC/SECS\\_CHAPTER\\_1\\_5.PDF](http://www.ct.gov/deep/lib/deep/water_inland/seec/secs_chapter_1_5.pdf)), WITH EVERSOURCE'S BMP MANUAL ([HTTP://WWW.TRANSMISSION-NU.CINSTOM/CONTRACTORS/PDF/CT\\_BMP.PDF](http://www.transmission-nu.cinstom/contractors/pdf/ct_bmp.pdf)), AS WELL AS CT DEEP AND USACE PERMIT CONDITIONS. THE FOLLOWING ARE OBJECTIVES OF THE E&S MEASURES:

- A. INSTALLING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION;
- B. PROTECTING WATER RESOURCE AREAS DURING CONSTRUCTION;
- C. MINIMIZING THE QUANTITY AND DURATION OF SOIL EXPOSURE (STABILIZE EXPOSED SOILS IMMEDIATELY UPON COMPLETION OF GRADING OR STOCKPILING);
- D. INSPECTING THE WORK AREAS AND MAINTAINING EROSION AND SEDIMENT CONTROLS AS NECESSARY UNTIL FINAL STABILIZATION AND INSPECTION ARE ACHIEVED

THE APPLICATION OF THE TECHNIQUES IN THE FIELD WILL BE DETERMINED BY THE PROFESSIONAL JUDGMENT OF COMPLIANCE MONITORS AND FIELD CONSTRUCTION PERSONNEL AND WILL DEPEND ON SITE-SPECIFIC CONDITIONS. FACTORS THAT MAY BE CONSIDERED IN THE SELECTION OF EROSION AND SEDIMENT CONTROLS FOR SITE-SPECIFIC AREAS MAY INCLUDE:

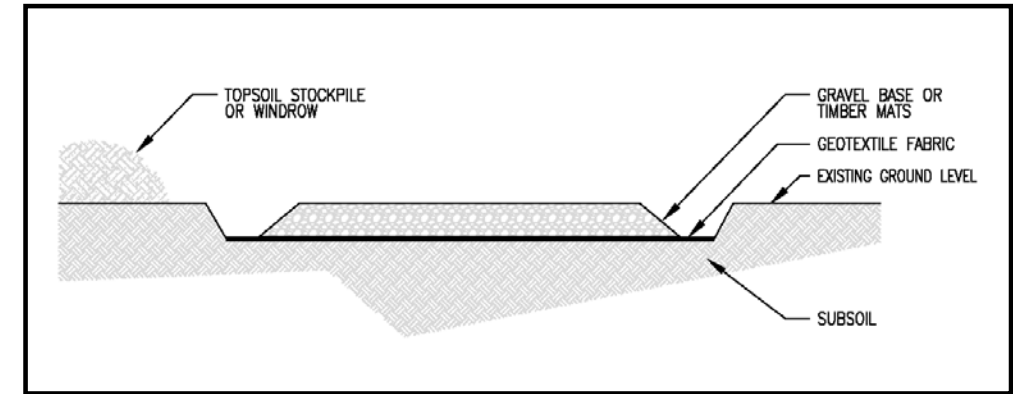
- A. SIZE OF THE AREA AFFECTED;
- B. TYPE OF PROPOSED CONSTRUCTION ACTIVITIES;
- C. TYPE AND TEXTURE OF SOIL (HIGHLY ERODIBLE SOILS ARE DEPICTED ON THE VOLUME 3 MAPSHEETS);
- D. AMOUNT OF ROCK PRESENT;
- E. STEEPNESS AND LENGTH OF SLOPE;
- F. AMOUNT AND TYPE OF VEGETATIVE COVER;
- G. PROXIMITY AND DIRECTION TO WATERCOURSES OR WETLANDS;
- H. ANTICIPATED WEATHER CONDITIONS AND GROUND CONDITIONS.

**EROSION AND SEDIMENT CONTROL NOTES**

- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", CTDEEP BULLETIN NO. 34, AND ALL AMENDMENTS AND ADDENDA THERETO AS PUBLISHED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.
- 2. LAND DISTURBANCE SHALL BE KEPT TO THE MINIMUM NECESSARY FOR CONSTRUCTION OPERATIONS.
- 3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE Development & Management Plan AND ELSEWHERE AS NECESSARY TO PREVENT SOIL EROSION AND SEDIMENT TRANSPORT TO RESOURCE AREAS. ADDITIONAL CONTROLS, NOT DEPICTED ON THE PLANS, MAY BE NECESSARY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSESS THE NEED FOR, AND INSTALL ADDITIONAL CONTROLS THAT ARE WARRANTED BY SITE CONDITIONS.
- 4. RETAINING WALLS ARE DEPICTED IN SOME LOCATIONS ON THE DEVELOPMENT & MANAGEMENT PLAN IN ORDER TO PROVIDE A LEVEL WORK AREA WHERE STEEP TOPOGRAPHY EXISTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF RETAINING WALLS, METHODS OF CONSTRUCTION, AND SAFETY MEASURES UTILIZED. RETAINING WALLS MAY BE REQUIRED IN ADDITIONAL LOCATIONS NOT DEPICTED ON THE PLANS.
- 5. UPON COMPLETION OF CONSTRUCTION, IT IS THE CONTRACTORS RESPONSIBILITY TO REMOVE RETAINING WALLS, REGRADE AND STABILIZE SLOPES IN COMPLIANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- 6. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS SHALL BE CONDUCTED AFTER EACH RAINSTORM AND DURING MAJOR STORM EVENTS TO DETERMINE IF ALL CONTROL MEASURES ARE ADEQUATELY IN PLACE AND EFFECTIVE.
- 7. SEDIMENT REMOVED SHALL BE PROPERLY DISPOSED OF IN AN APPROPRIATE UPLAND AREA WITHIN THE DEFINED LIMITS OF DISTURBANCE
- 8. STOCKPILE TOPSOIL IN LEVEL UPLAND AREAS AND CONTAIN USING STRAW BALES AND/OR SILT FENCE AROUND THE PERIMETER.
- 9. STOCKPILING OF EXCESS SOIL GENERATED AS A RESULT OF STRUCTURE / FOUNDATION INSTALLATION WORK WITHIN WETLANDS IS PROHIBITED, EXCEPT THAT SOILS OR OTHER EXCAVATED MATERIAL MAY BE TEMPORARILY STOCKPILED AND CONTAINED ON THE WORK PAD LOCATED WITHIN A WETLAND PRIOR TO TRANSPORT TO AN UPLAND AREA.
- 10. STABILIZATION OF OPEN SOIL SURFACES WILL BE IMPLEMENTED WITHIN 14 DAYS AFTER GRADING OR CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, UNLESS WEATHER PROHIBITS SEED GERMINATION.
- 11. WHERE NECESSARY, SUITABLE TOPSOIL, SEEDBED PREPARATION, AND WATER SHALL BE PROVIDED FOR EFFECTIVE ESTABLISHMENT OF VEGETATIVE COVER.
- 12. THE CONSTRUCTION CONTRACTOR SHALL KEEP ALL PAVED ROADWAYS CLEAN.
- 13. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AND MAINTAIN UNTIL RESTORATION HAS BEEN DETERMINED TO BE EFFECTIVE AS DEFINED BY CONFORMANCE TO THE CT DEEP GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

**TYPICAL GRAVEL ACCESS ROAD AND WORK PAD CONSTRUCTION**

**ACTIVE FARMLAND  
(Topsoil Relocation)**



**NOTES:**

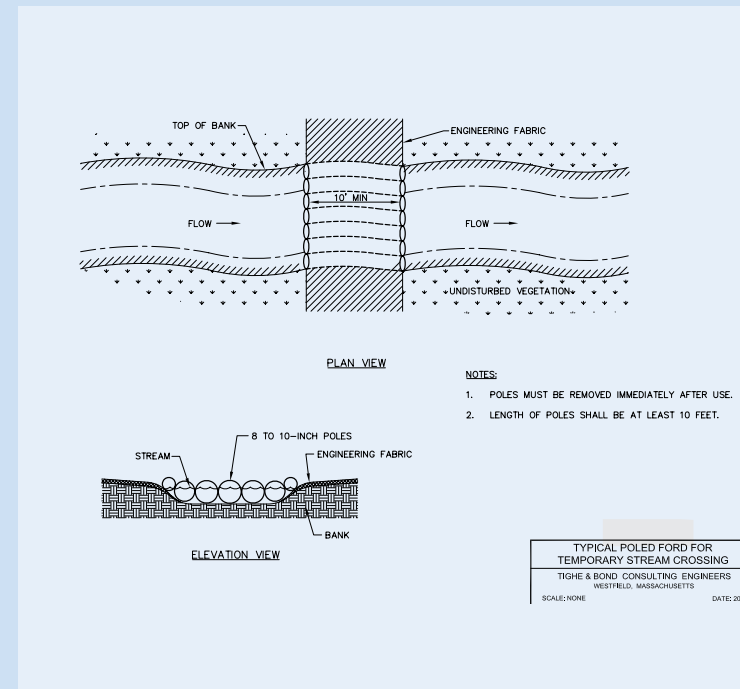
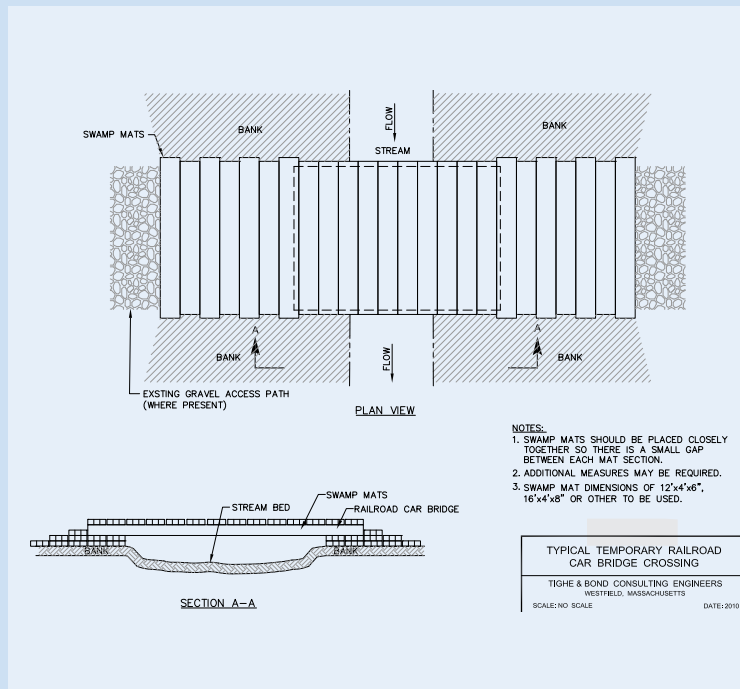
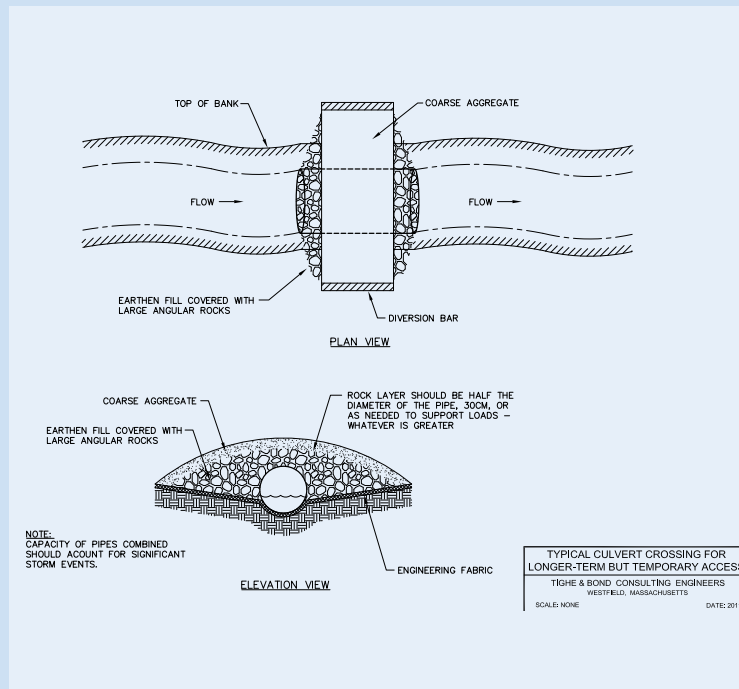
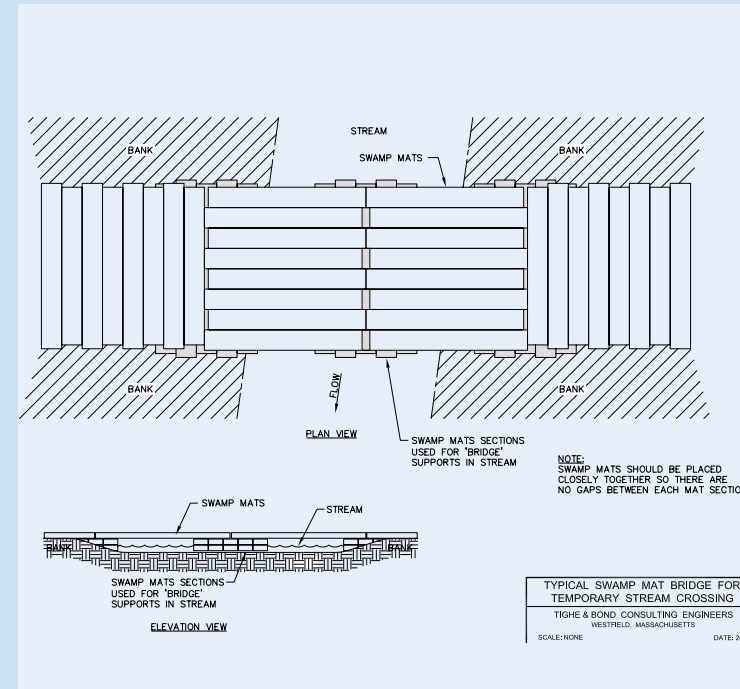
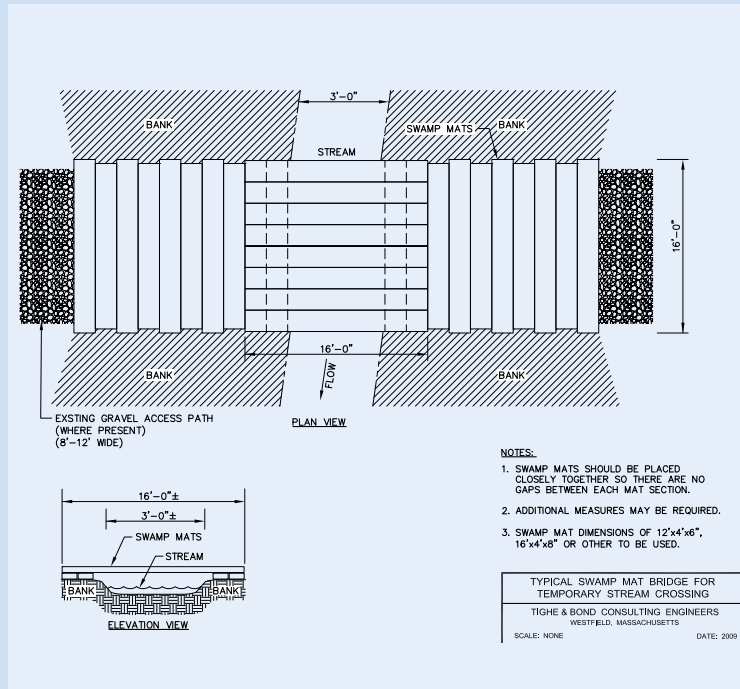
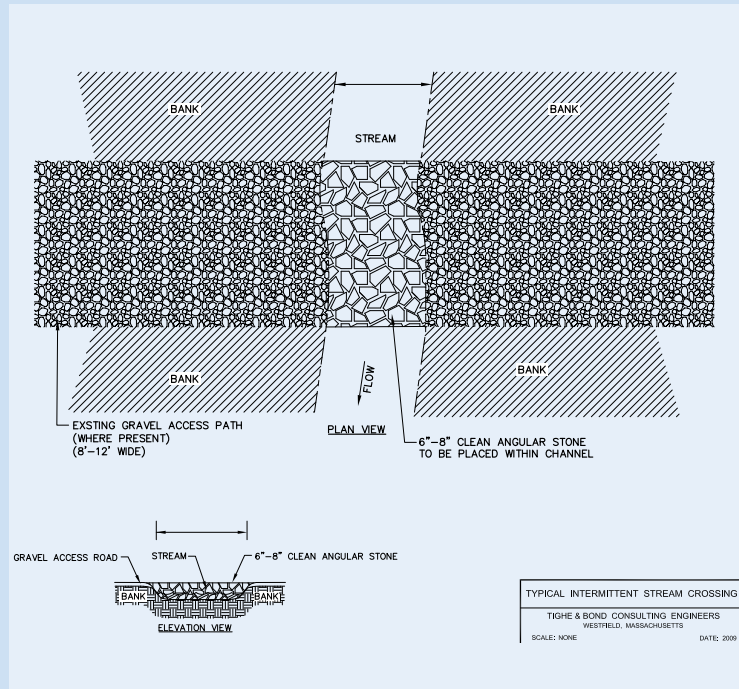
- 1. TOPSOIL WILL BE REMOVED FROM WORK AREAS BUT REMAIN ON PROPERTY, AND WILL BE STOCKPILED OR WINDROWED IN UPLAND AREAS.
- 2. PROPOSED ACCESS ROADS AND WORK PADS ARE NOT CONSIDERED A PERMANENT IMPROVEMENT AND WILL BE REMOVED AT THE END OF THE PROJECT.
- 3. ACTUAL DIMENSIONS OF WORK PADS AND ACCESS ROADS WILL VARY, DEPENDING ON SITE CHARACTERISTICS AND ON THE TYPES OF STRUCTURES TO BE INSTALLED.
- 4. TYPICAL ACCESS ROAD WIDTHS IN UPLANDS ARE 20 TO 25 FEET MAXIMUM WITH SHOULDERS WITH A TRAVEL SURFACE WIDTH OF 16 FEET.
- 5. TYPICAL WORK PAD DIMENSIONS ARE 100 FEET WIDE BY 100 FEET LONG FOR IN-LINE (TANGENT) STRUCTURES, AND 100 FEET BY 200 FEET FOR ANGLE STRUCTURES AND DEADENDS.
- 6. AFTER REMOVAL OF GRAVEL ROAD, TOPSOIL WILL BE SPREAD OVER WORK AREAS TO PRE-CONSTRUCTION CONTOURS TO THE EXTENT PRACTICABLE.
- 7. IF ANY PART OF THE PROPOSED ROAD WIDTH IS WITHIN AN AGRICULTURAL AREA, THE ENTIRE ROAD WIDTH SHALL BE CONSTRUCTED AS IF IT WERE IN AN AGRICULTURAL AREA.
- 8. DRAWING IS NOT TO SCALE.

							<b>EVERSOURCE</b> ENERGY	
							Frost Bridge to Campville 115-kV Project Development & Management Plan	
							FARMLAND PROTECTION MEASURES & SOIL EROSION AND SEDIMENT CONTROL	
							Detail Sheet 05 of 11	
							<b>Tighe &amp; Bond</b>	<small>ALL-POINTS TECHNOLOGY CORPORATION</small>
NO.	DATE	REVISIONS	BY	CHK	APP	APP		

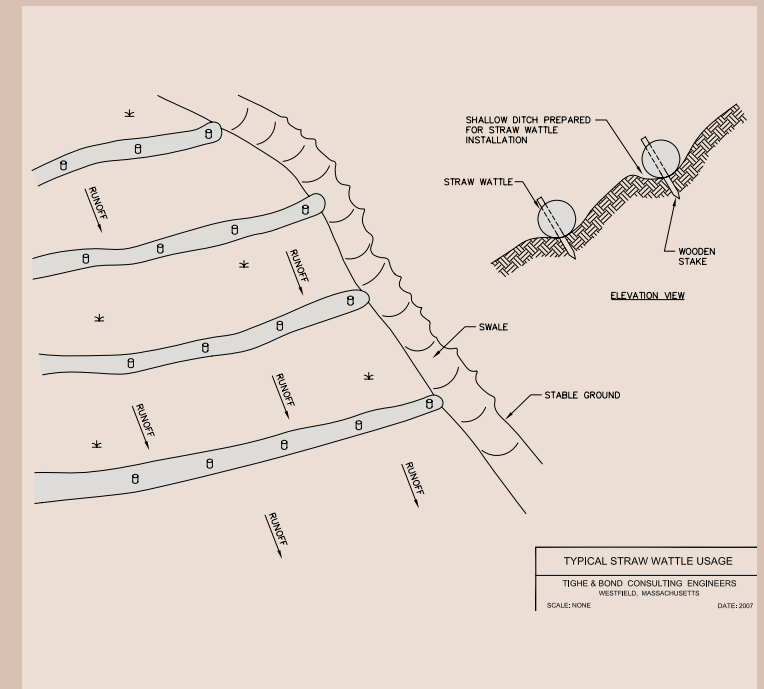
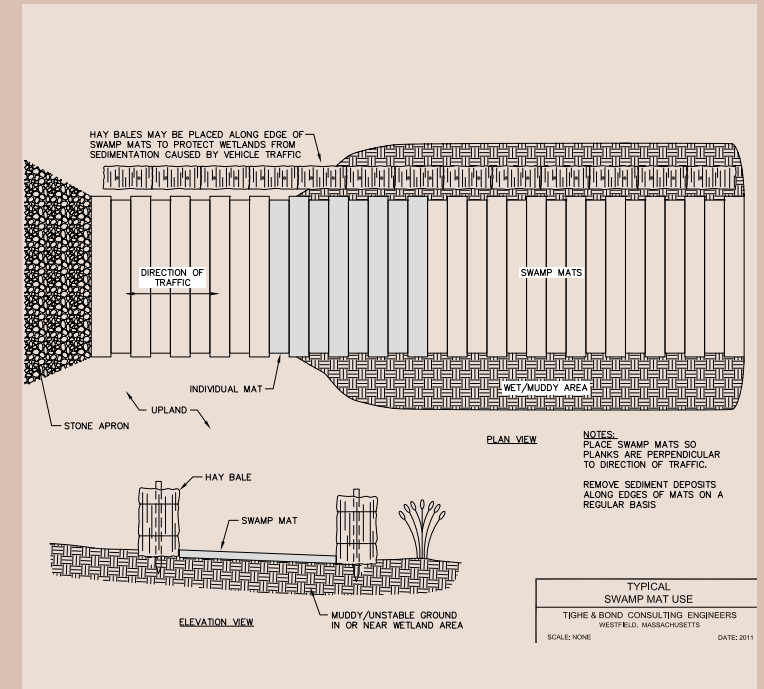
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## STREAM CROSSING TYPICAL DETAILS



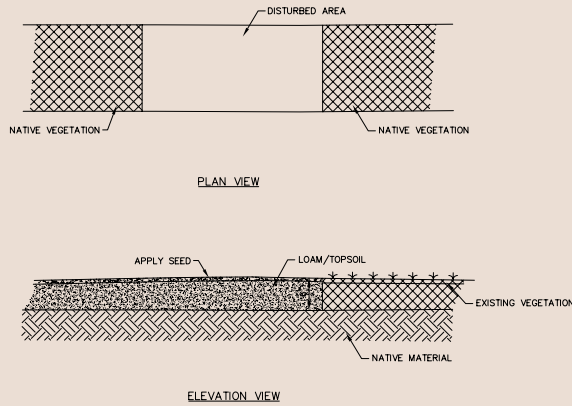
## EROSION AND SEDIMENTATION CONTROL TYPICAL DETAILS



						<b>EVERSOURCE ENERGY</b> Frost Bridge to Campville 115-kV Project Development & Management Plan TYPICAL DETAILS SHEET 1 OF 2 Detail Sheet 06 of 11	
NO.	DATE	REVISIONS	BY	CHK	APP	APP	

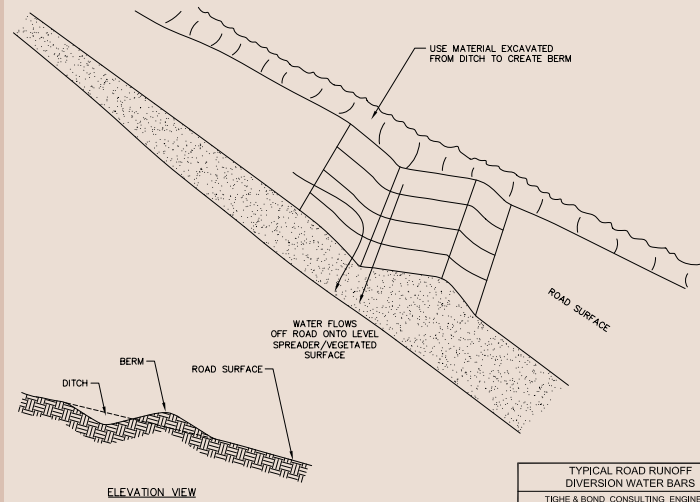
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# EROSION AND SEDIMENTATION CONTROL TYPICAL DETAILS

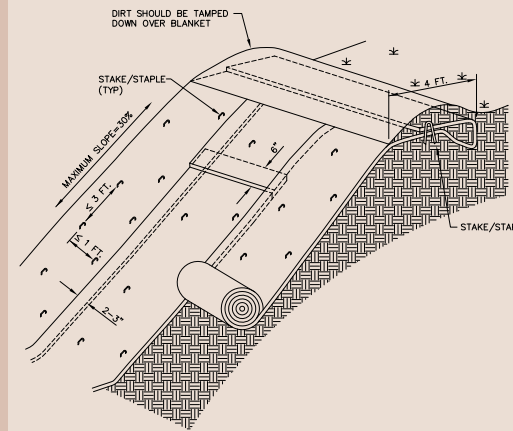


**NOTE:**  
1. SEED MIX APPLICATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

**LOAMING AND SEEDING**  
TIGHE & BOND CONSULTING ENGINEERS  
WESTFIELD, MASSACHUSETTS  
SCALE: NONE DATE: 2007

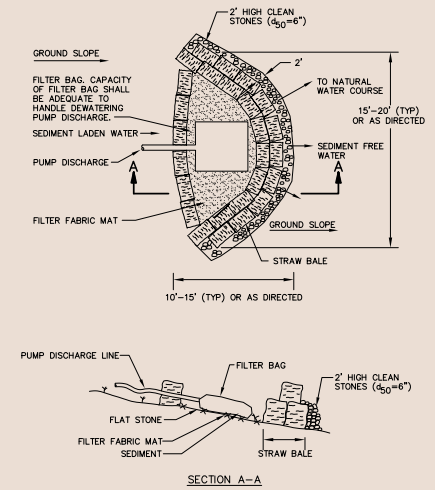


**TYPICAL ROAD RUNOFF DIVERSION WATER BARS**  
TIGHE & BOND CONSULTING ENGINEERS  
WESTFIELD, MASSACHUSETTS  
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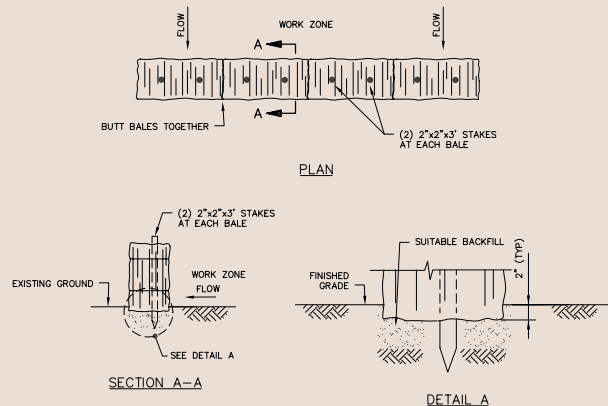
**NOTES:**  
1. EROSION CONTROL BLANKET SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.  
2. STAKES/STAPLES SHOULD BE PLACED NO MORE THAN 3 FT. APART VERTICALLY, AND 1 FT. APART HORIZONTALLY.  
3. SLOPE SURFACE SHOULD BE FREE OF STICKS, ROCKS, AND OTHER OBSTRUCTIONS.  
4. BLANKETS SHOULD BE ROLLED OUT LOOSELY AND STAKED/STAPLED TO MAINTAIN DIRECT SOIL CONTACT. DO NOT STRETCH THE BLANKETS.

**TYPICAL EROSION CONTROL BLANKETS**  
TIGHE & BOND CONSULTING ENGINEERS  
WESTFIELD, MASSACHUSETTS  
SCALE: NONE DATE: 2011



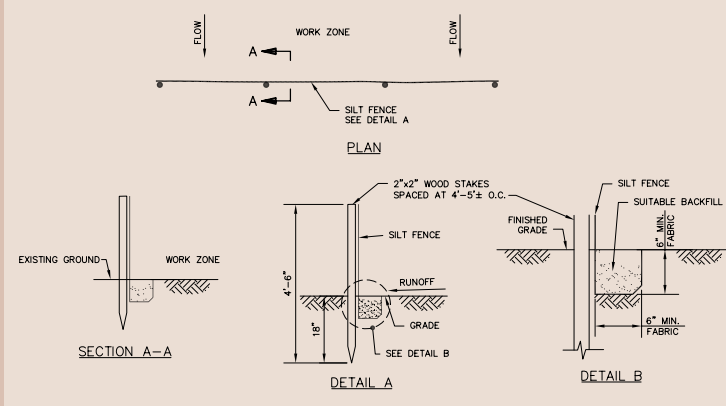
**NOTES:**  
1. LOCATION OF SEDIMENT TRAP SUBJECT TO APPROVAL OF ENGINEER.  
2. SEDIMENT TRAPS OR SETTLING BASINS SHALL BE USED FOR CONSTRUCTION DEWATERING.  
3. DISCHARGE AWAY FROM WORK AREA/DEWATERING AREA.

**TYPICAL SEDIMENT TRAP**  
TIGHE & BOND CONSULTING ENGINEERS  
WESTFIELD, MASSACHUSETTS  
SCALE: NONE DATE: 2011

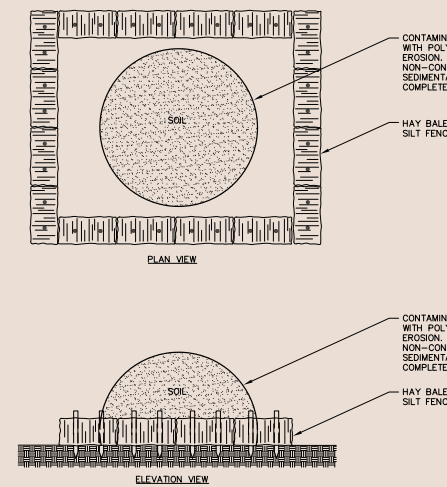


**NOTE:**  
STRAW BALES MAY BE SUBSTITUTED FOR HAY BALES.

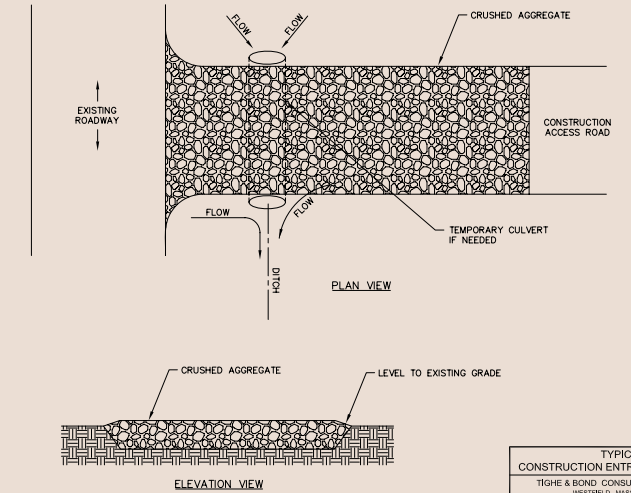
**TYPICAL HAY BALES USAGE**  
TIGHE & BOND CONSULTING ENGINEERS  
WESTFIELD, MASSACHUSETTS  
SCALE: NONE DATE: 2007



**TYPICAL SILT FENCE USAGE**  
TIGHE & BOND CONSULTING ENGINEERS  
WESTFIELD, MASSACHUSETTS  
SCALE: NONE DATE: 2007



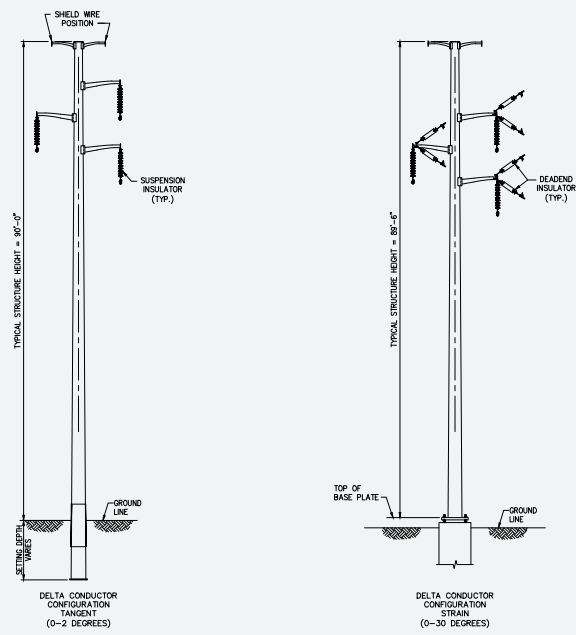
**TYPICAL SOIL STOCKPILE MANAGEMENT**  
TIGHE & BOND CONSULTING ENGINEERS  
WESTFIELD, MASSACHUSETTS  
SCALE: NONE DATE: 2011



**TYPICAL CONSTRUCTION ENTRANCE TRACK PAD**  
TIGHE & BOND CONSULTING ENGINEERS  
WESTFIELD, MASSACHUSETTS  
SCALE: NONE DATE: 2007

						 <b>Frost Bridge to Campville 115-kV Project Development &amp; Management Plan</b> <b>TYPICAL DETAILS SHEET 2 OF 2</b> Detail Sheet 07 of 11
NO.	DATE	REVISIONS	BY	CHK	APP	APP

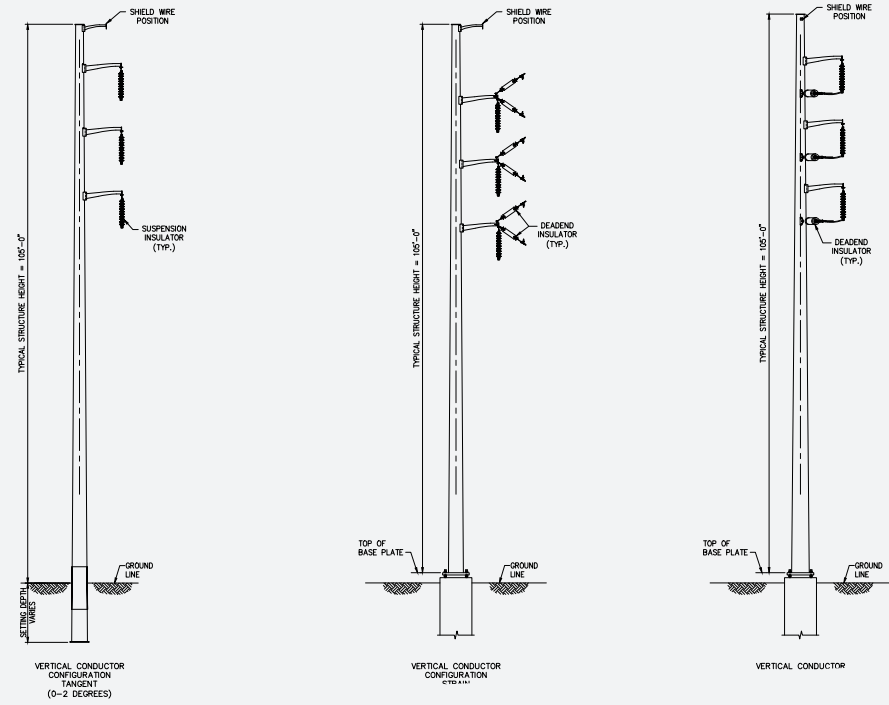
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NOTES:  
 1. STRUCTURES SHOWN DEPICT STEEL POLE CONSTRUCTION.  
 2. DRILLED PIER FOUNDATIONS MAY BE UTILIZED FOR TANGENT STRUCTURES.  
 3. STRUCTURE GROUNDING EQUIPMENT NOT SHOWN.

NO.	DATE	REVISIONS	BY	CHK	APP

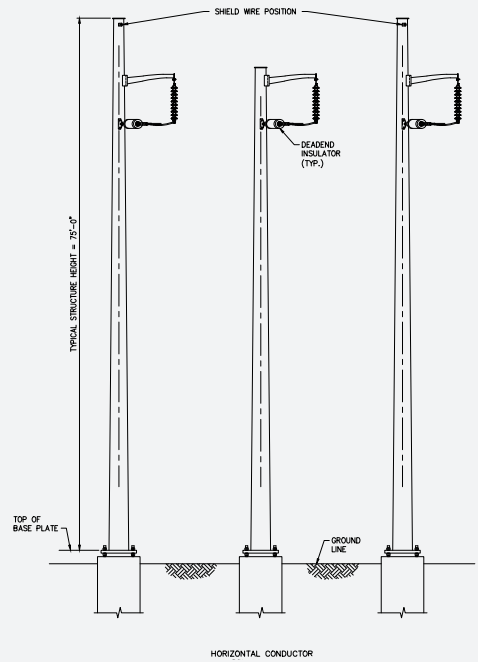
**BURNS & MCDONNELL**  
 83707  
 Date: DEC. 17, 2015    Designer: D. LAURSEN  
 Designed: V. MONTEMURRO    Checked: P. WILLIAMS



NOTES:  
 1. STRUCTURES SHOWN DEPICT STEEL POLE CONSTRUCTION.  
 2. STRUCTURE GROUNDING EQUIPMENT NOT SHOWN.  
 3. DRILLED PIER FOUNDATIONS MAY BE UTILIZED FOR TANGENT STRUCTURES.

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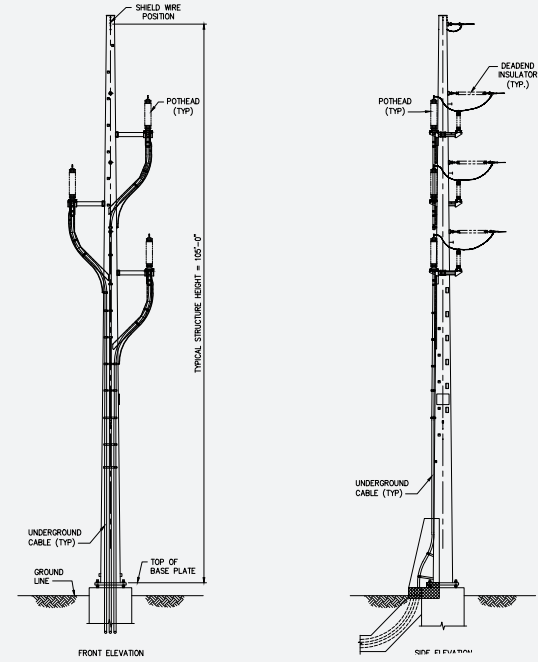
**BURNS & MCDONNELL**  
 83707  
 Date: DEC. 17, 2015    Designer: D. LAURSEN  
 Designed: V. MONTEMURRO    Checked: P. WILLIAMS



NOTES:  
 1. STRUCTURE SHOWN DEPICTS STEEL POLE CONSTRUCTION.  
 2. STRUCTURE GROUNDING EQUIPMENT NOT SHOWN.

NO.	DATE	REVISIONS	BY	CHK	APP

**BURNS & MCDONNELL**  
 83707  
 Date: FEB. 8, 2016    Designer: D. LAURSEN  
 Designed: V. MONTEMURRO    Checked: M. HATFIELD



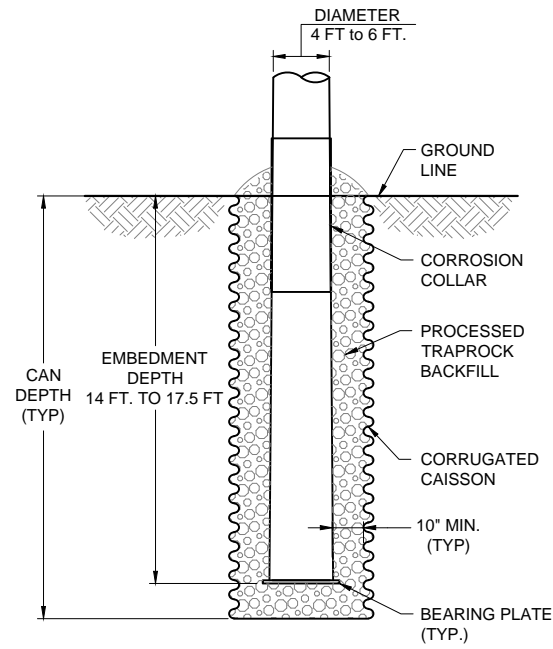
NOTES:  
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 2. STRUCTURE GROUNDING EQUIPMENT NOT SHOWN.

NO.	DATE	REVISIONS	BY	CHK	APP

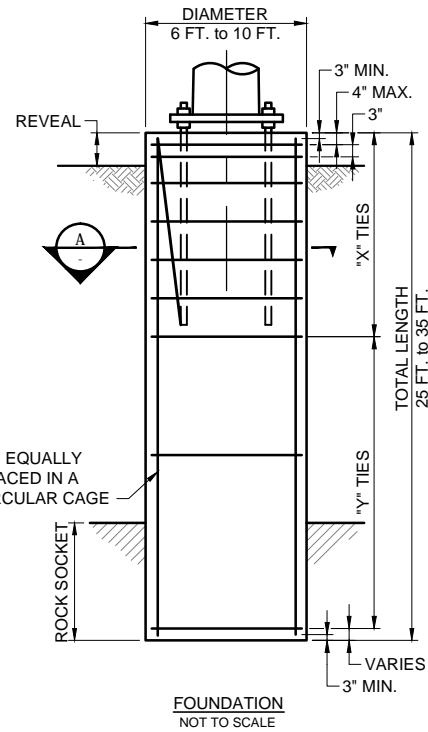
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 83707  
 Date: DEC. 17, 2015    Designer: D. LAURSEN  
 Designed: V. MONTEMURRO    Checked: P. WILLIAMS

<p><b>Eversource Energy</b></p> <p>Frost Bridge to Campville          115-kV Project          Development &amp; Management Plan</p> <p>TYPICAL STRUCTURE CONFIGURATIONS</p> <p>Detail Sheet 08 of 11</p>											
						NO.	DATE	REVISIONS	BY	CHK	APP

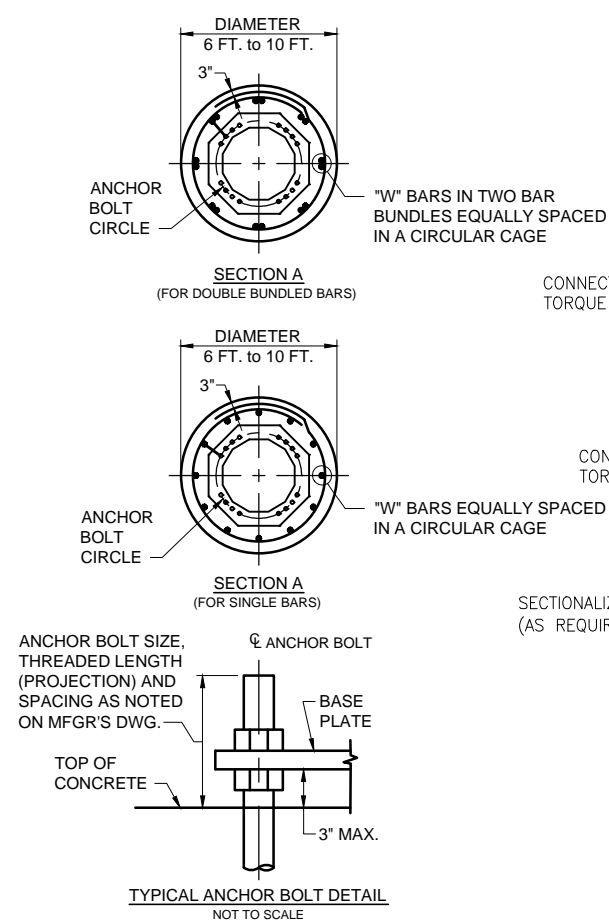
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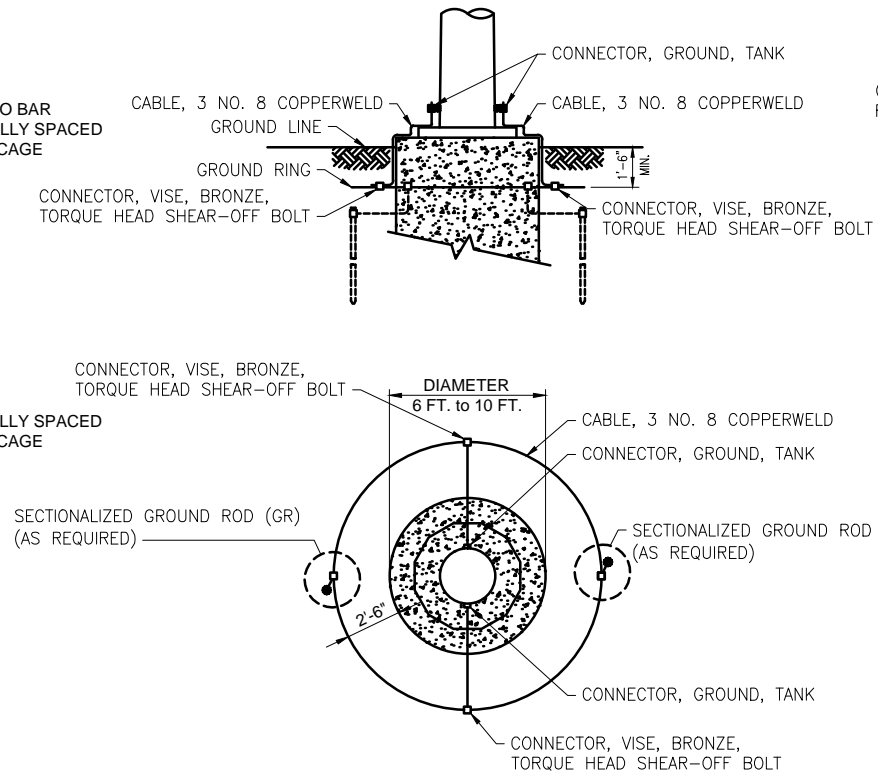
**DETAIL 1**  
**DIRECT EMBEDDED FOUNDATION**



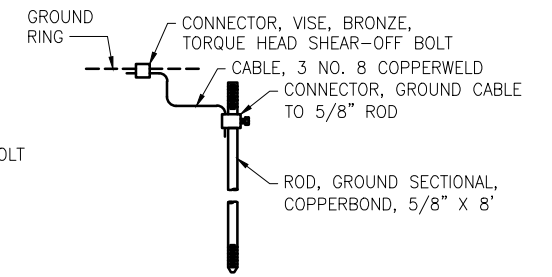
**DETAIL 2**  
**DRILLED SHAFT FOUNDATION**



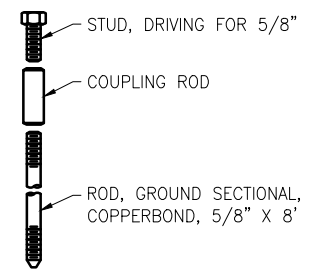
**TYPICAL ANCHOR BOLT DETAIL**  
NOT TO SCALE



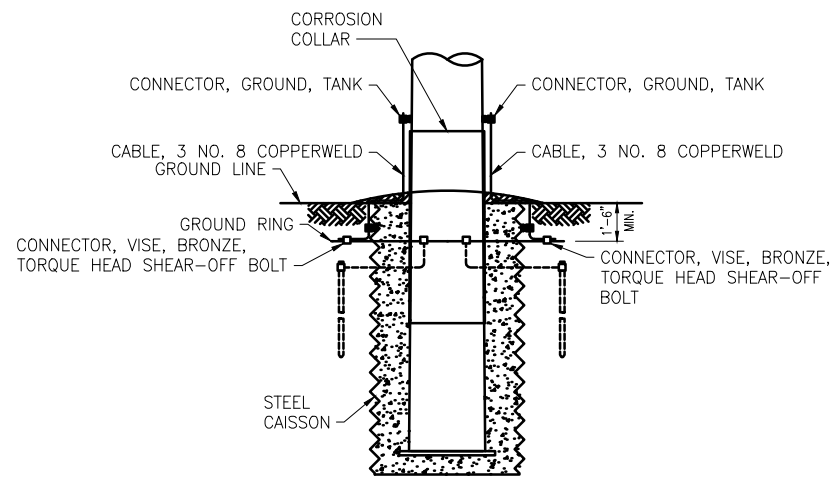
**GROUND RING**  
**FOUNDATION-MOUNTED**  
**STEEL POLES**



**GR**  
**SECTIONALIZED GROUND ROD**

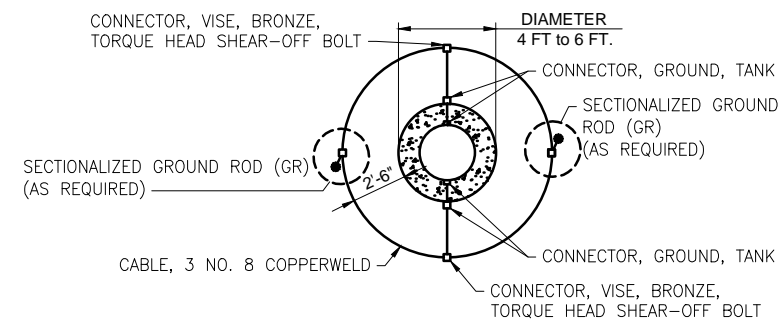


**GR-1**  
**SECTIONALIZED GROUND ROD EXTENSION**



**INSTALLATION NOTES:**

1. CONSTRUCTION CONTRACTOR TO INSTALL BASE GROUND RING ASSEMBLY (SEE GROUND RING DETAILS) AT EVERY STRUCTURE LOCATION.
2. CONSTRUCTION CONTRACTOR TO TAKE RESISTIVITY MEASUREMENTS - IF THE READINGS ARE ACCEPTABLE, THEN DONE.
3. IF THE RESISTIVITY READINGS ARE UNACCEPTABLE (TOO HIGH) AND THE SOIL PROFILE ALLOWS; INSTALL GROUND RODS (ASSEMBLY GR) PER DETAIL AND NOTES. TAKE RESISTIVITY MEASUREMENTS - IF ACCEPTABLE, THEN DONE.
4. IN LOCATIONS WHERE THE STRUCTURE IS LOCATED IN A WETLAND AREA, THE PREFERRED METHOD OF GROUNDING IS THE GROUND RING AND GROUND RODS.

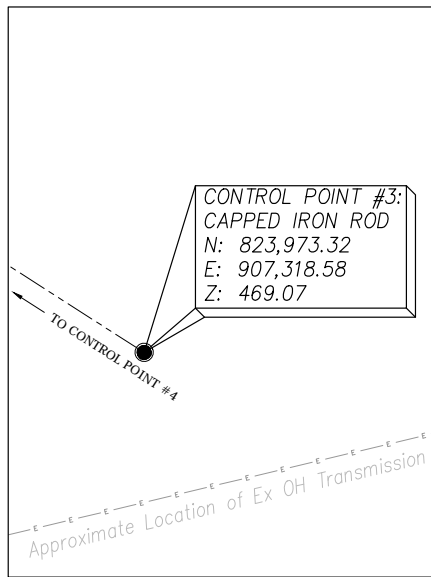


**GROUND RING**  
**DIRECT EMBED**  
**STEEL POLES**

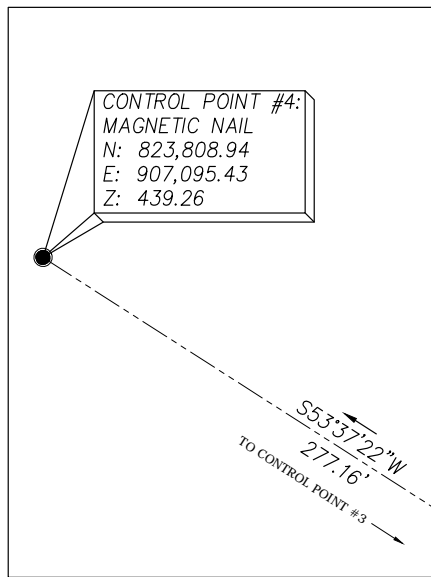
						Frost Bridge to Campville 115-kV Project Development & Management Plan									
83707						<b>TYPICAL FOUNDATION AND GROUNDING DETAILS</b>									
date APR. 25, 2016 designed V. MONTEMURRO		detailed M. PEPICH checked M. HATFIELD						<b>Detail Sheet 09 of 11</b>							
				NO. DATE		REVISIONS		BY		CHK APP APP					

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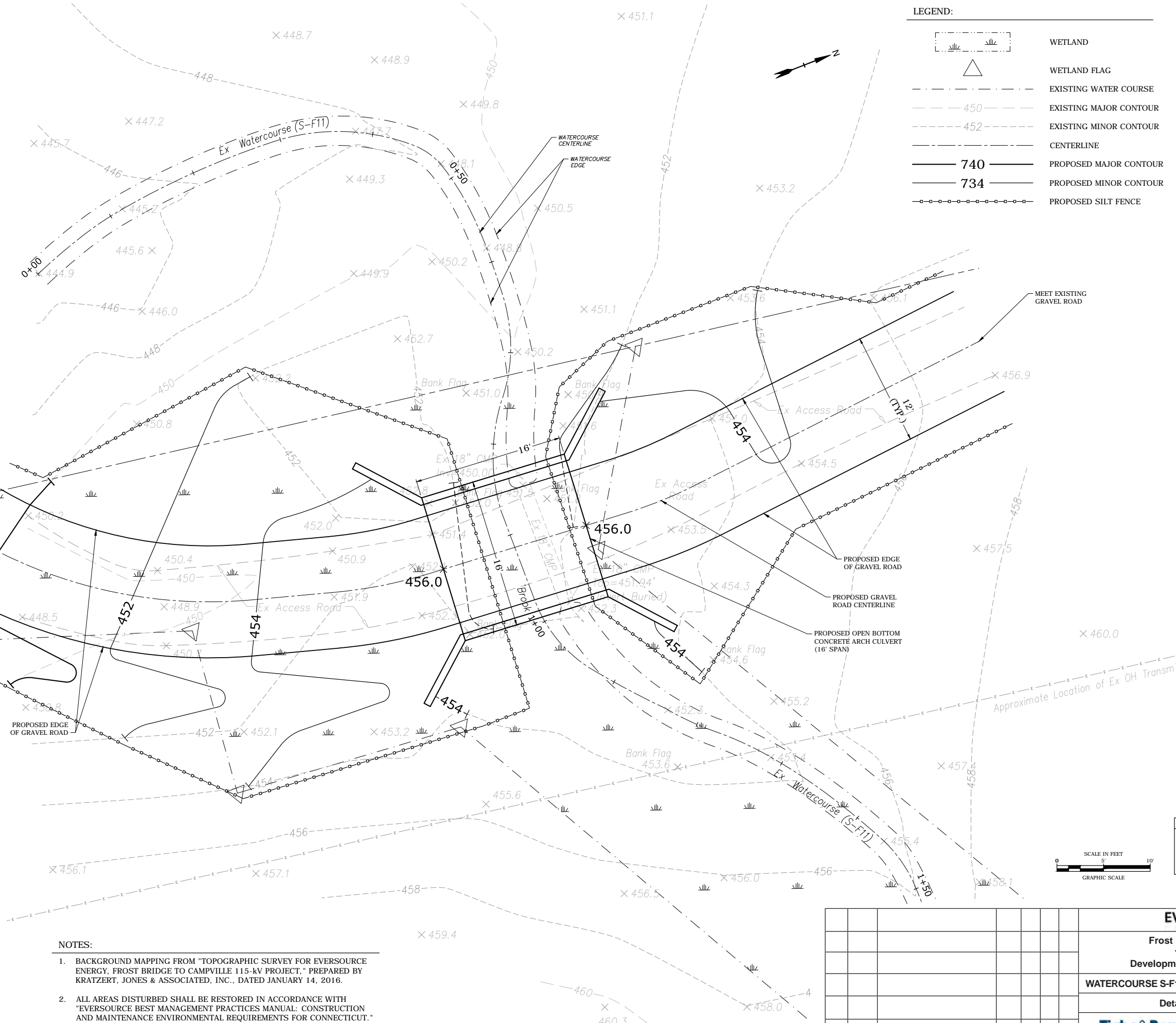




CONTROL POINT #3



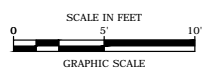
CONTROL POINT #4



**LEGEND:**

	WETLAND
	WETLAND FLAG
	EXISTING WATER COURSE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	CENTERLINE
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED SILT FENCE

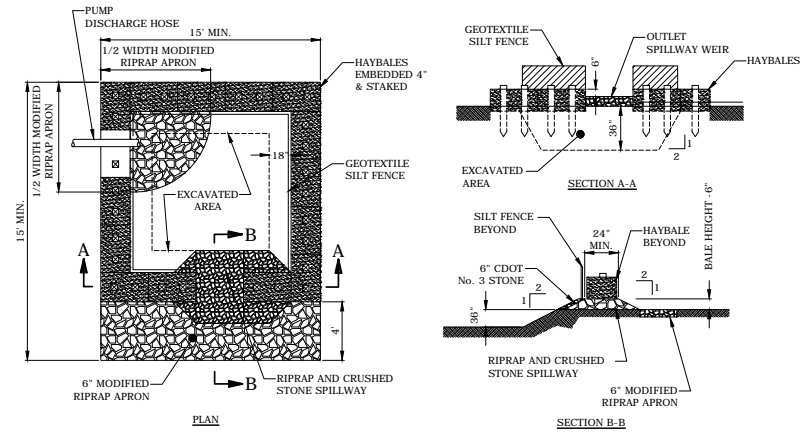
- NOTES:**
- BACKGROUND MAPPING FROM "TOPOGRAPHIC SURVEY FOR EVERSOURCE ENERGY, FROST BRIDGE TO CAMPVILLE 115-kV PROJECT," PREPARED BY KRATZERT, JONES & ASSOCIATED, INC., DATED JANUARY 14, 2016.
  - ALL AREAS DISTURBED SHALL BE RESTORED IN ACCORDANCE WITH "EVERSOURCE BEST MANAGEMENT PRACTICES MANUAL: CONSTRUCTION AND MAINTENANCE ENVIRONMENTAL REQUIREMENTS FOR CONNECTICUT."
  - ENTIRE WORK ZONE IS WITHIN 100 YEAR FEMA FLOOD ZONE A30.



**VERIFY SCALE**  
 BAR IS 1 INCH ON ORIGINAL DRAWING  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

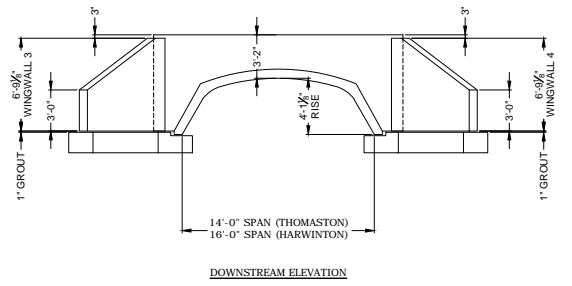
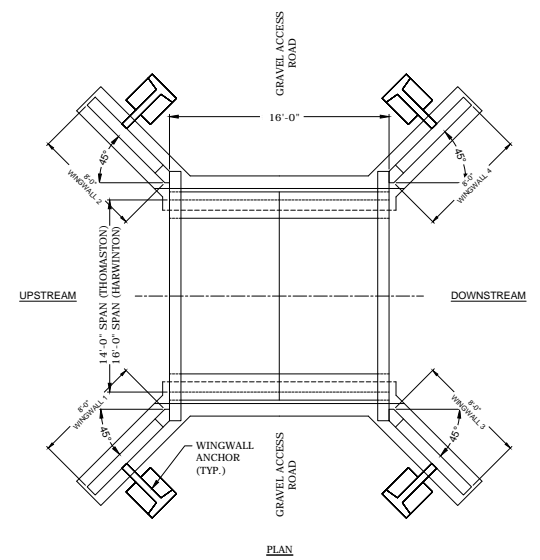
						<b>EVERSOURCE ENERGY</b>	
						Frost Bridge to Campville 115-kV Project Development & Management Plan	
						<b>WATERCOURSE S-F11 CULVERT REPLACEMENT PLAN</b>	
						Detail Sheet 10 of 11	
NO.	DATE	REVISIONS	BY	CHK	APP	APP	<b>Tighe &amp; Bond</b>

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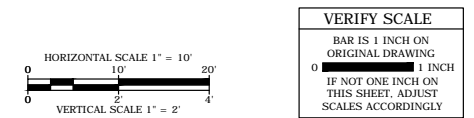
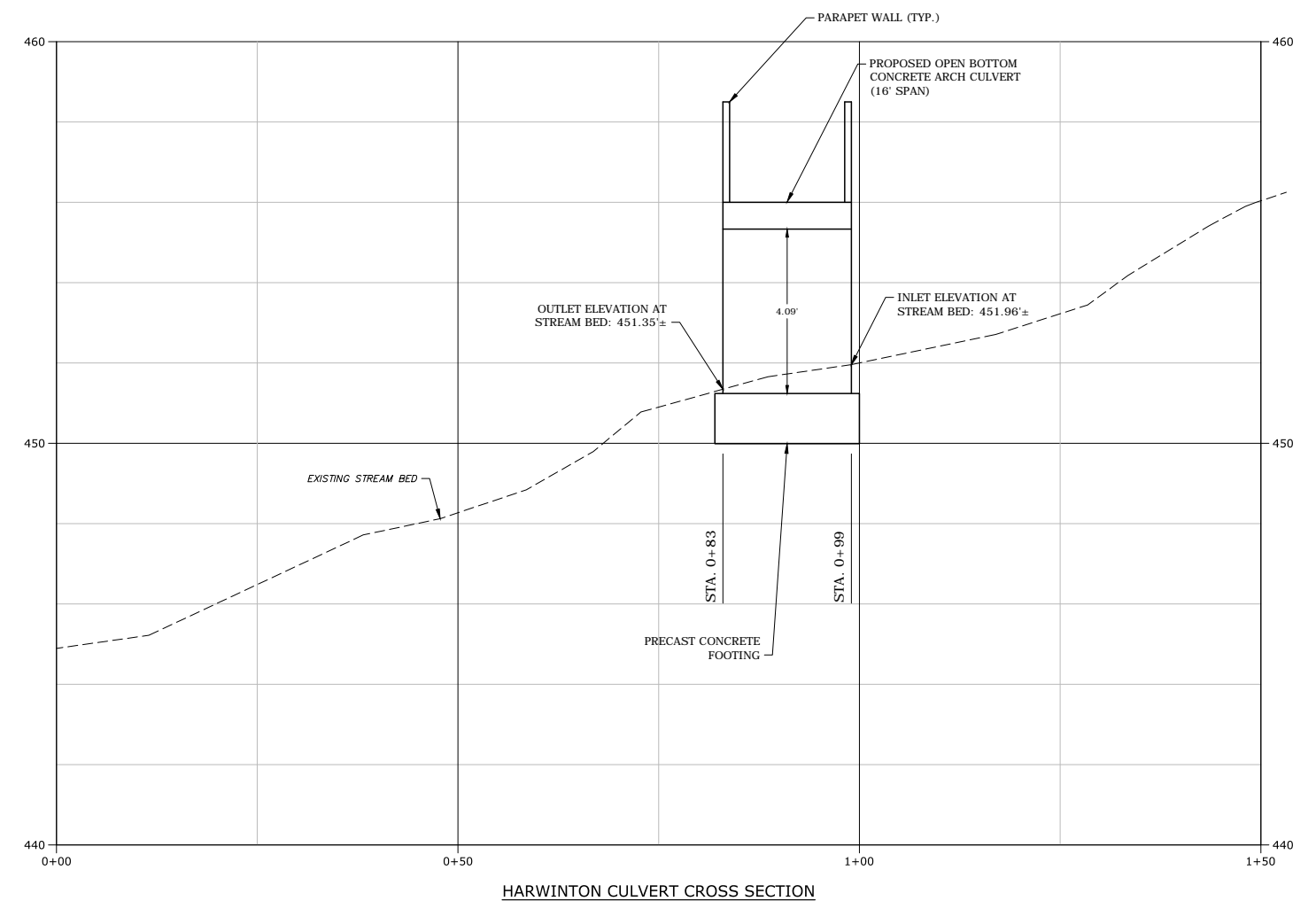
- NOTES:**
- VOLUME OF SETTLING BASIN (IN CUBIC FEET) SHALL BE EQUAL TO THE PEAK PUMP DISCHARGE (IN GPM) MULTIPLIED BY 16.
  - LOCATE SETTLING BASIN SUCH THAT SURFACE WATER IS DIRECTED AROUND IT.
  - VOLUME IS MEASURED FROM CREST OF SPILLWAY.

**PUMPING SETTLING BASIN INTERMEDIATE VOLUME**  
NO SCALE



- NOTE:**
- CONSPAN O-SERIES STRUCTURE OR EQUAL.

**OPEN BOTTOM CONCRETE ARCH CULVERT**  
SCALE: 3/16" = 1'-0"



						<b>EVERSOURCE ENERGY</b>	
						Frost Bridge to Campville 115-kV Project Development & Management Plan	
						WATERCOURSE S-F11 CULVERT REPLACEMENT CROSS SECTION AND DETAILS	
						Detail Sheet 11 of 11	
NO.	DATE	REVISIONS	BY	CHK	APP	APP	