



**Connecticut
Light & Power**

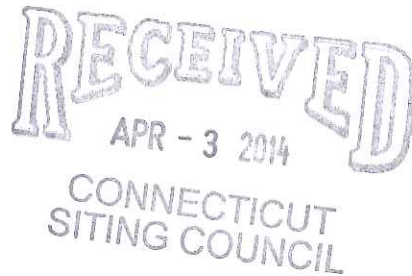
The Northeast Utilities System

56 Prospect Street, Hartford, CT 06103

Northeast Utilities Service Company
P.O. Box 270
Hartford, CT 06141-0270
(860) 728-4532

April 3, 2014

Mr. Robert Stein, Chairman
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051



RE: Docket No. 424: Interstate Reliability Project
Submission of Information Pursuant to Conditions of the Connecticut Siting Council's November 4, 2013 Approval of the *Development and Management ("D&M") Plan for Construction of New 345-kV Transmission Lines and Related Minor Modifications to Adjacent Lines:*

- Minor Revisions to D&M Plan Volume 3 Mapping to Fully Incorporate Vegetation Removal Limits as Depicted Pursuant to Approvals from the U.S. Army Corps of Engineers Clean Water Act (Section 404 Permit) and Connecticut Department of Energy and Environmental Protection (401 Water Quality Certification, as Amended)

Dear Chairman Stein:

On February 19, 2014, pursuant to Condition 2 of the Connecticut Siting Council's ("Council's") November 4, 2013 approval of the *Development and Management ("D&M") Plan for the Interstate Reliability Project (Interstate) for the Construction of New 345-kV Transmission Lines and Related Minor Modifications to Adjacent Lines*, The Connecticut Light and Power Company ("CL&P") transmitted to the Council updated Volume 3 D&M Plan maps. These updated maps reflected water resource and cultural resource avoidance and minimization measures approved by the U.S. Army Corps of Engineers (USACE) in the Project's Clean Water Act Section 404 Permit and by the Connecticut Department of Energy and Environmental Protection (CT DEEP) in the Project's 401 Water Quality Certification, as Amended.

Subsequently, CL&P has identified 11 discrete structure locations on the updated D&M Plan maps where the "vegetation clearing limits for construction" line was not correctly transferred to match the approved USACE and CT DEEP maps. The attached mapsheets illustrate these locations. It should be noted that the vegetation clearing limit corrections will shift or reduce the amount of forested vegetation removal and will otherwise involve only portions of CL&P's already managed rights-of-way.

Should you or other Council members have any questions regarding this submission, please do not hesitate to contact me via e-mail at john.morissette@nu.com or telephone at (860) 728-4532.

Sincerely,

John R. Morissette
Project Manager – Transmission Siting

Encl

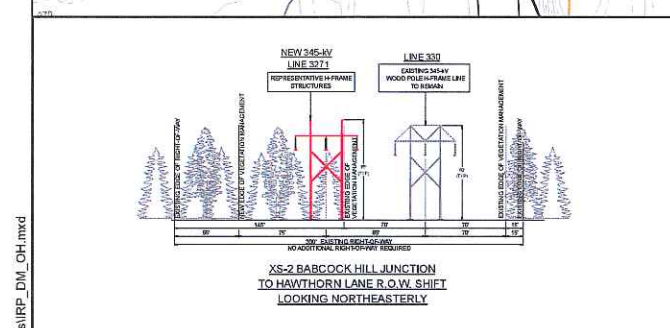
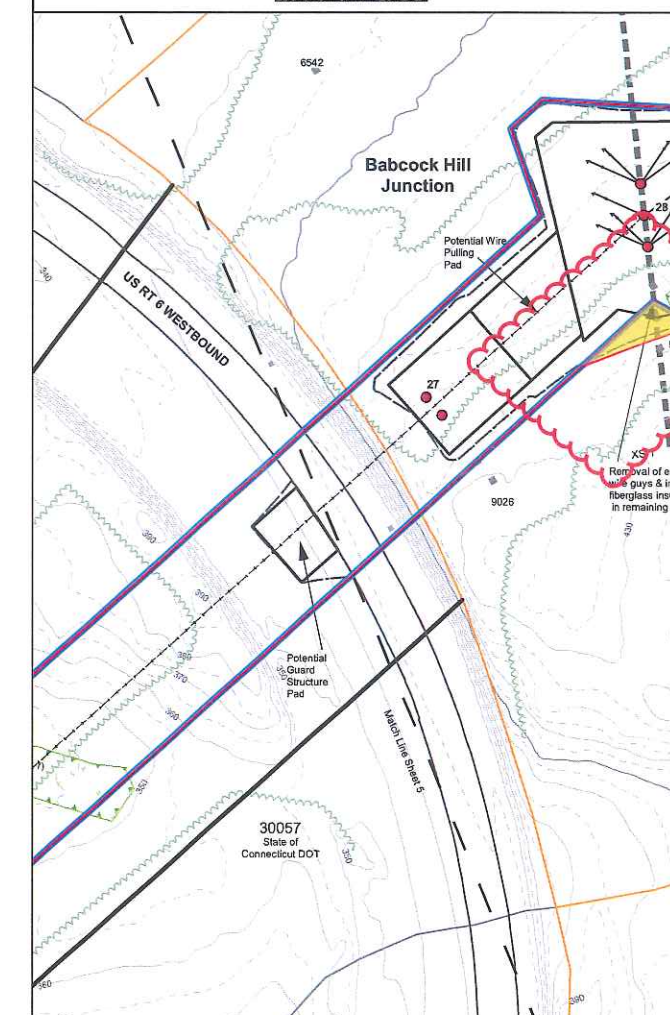
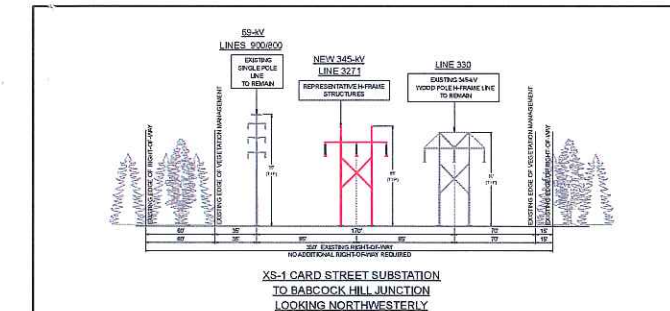
ATTACHMENT A

STRUCTURE LOCATIONS WHERE "VEGETATION CLEARING LIMITS FOR CONSTRUCTION" WILL BE UPDATED FOR CONSISTENCY WITH USACE AND CT DEEP MAPPING

Town	D&M Volume 3 Mapsheet No.	Structure No.
Mansfield	9	49
Brooklyn	35	183
Thompson	66	337
Coventry	6	28
Mansfield	8	42
Mansfield	15	78
Killingly	47A	241
Killingly	48	245
Killingly	49	250
Putnam	58	291
Thompson	64	323

Note:

At each of the above structures, locations where "limits of vegetation clearing" will be reduced for consistency with USACE and CT DEEP maps is shown in orange/red. Locations where "limits of vegetation clearing" will be increased for consistency with USACE and CT DEEP maps is shown in yellow.



EROSION AND SEDIMENTATION CONTROLS NOTES

1. Install and maintain erosion and sedimentation controls as necessary to prevent the discharge of sediment to wetlands and watercourses and avoid the discharge of turbid stormwater from the project area.
2. Apply erosion control measures (e.g., mulch, netting, or tackifier) or vegetative cover to areas of disturbed ground to avoid and minimize soil erosion.
3. Install sedimentation barriers (e.g., silted bales or silt fence) down slope from large areas of disturbed ground as necessary to minimize movement of eroded soil.
4. Inspect erosion and sedimentation controls and monitor stormwater runoff as detailed in the Stormwater Pollution Control Plan and as required by the NPDES Stormwater General Permit.
5. General Permit Registration Form Part V: Stormwater Discharge Information shall be completed by Burns & McDonnell Engineer and/or Compliance Inspector prior to start of any earth disturbing activities.

WORK AREA BOUNDARIES IN / NEAR WETLANDS

Vegetation removal will occur within the Vegetation Clearing Limits for Construction as shown, with temporary access routes in and across wetlands as necessary. Additionally, danger or hazard tree removal may be required outside of the Vegetation Clearing Limits for Construction, including within wetlands. For all other construction activities, work area boundaries will be defined by deployed E&S controls (silt fence and straw bales or equivalent). Further:

- A. Work area boundaries will not necessarily encompass the entire width of the cleared area (e.g., tree line to tree line), but instead will be defined on a site-specific basis.
- B. Boundaries shall be defined by E&S controls and thus may be different in dimension (but may be no greater in total square footage) than depicted on the D&M Plan maps.
- C. All construction activities within wetlands, including access roads, work pads, temporary stockpiles of stripped topsoil or spoil (if necessary), excavations, equipment movements, etc., shall be contained within the work area boundaries.
- D. Under no circumstances shall any materials (including plowed snow, construction materials, construction debris) be deposited beyond the work area boundaries.

NOTES

1. All work will be conducted in accordance with the relevant portions of CL&P's December 2011 Best Management Practices Manual: Connecticut Construction and Maintenance Environmental Requirements unless more stringent project-specific measures apply. See Volumes 1 and 2.
2. 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. See Detail Sheets 1-4.
3. Erosion and sedimentation control measures will be installed during construction, as required, to comply with the 2002 Connecticut Guidelines for Erosion and Sediment Control, and CL&P's December 2011 Best Management Practices Manual: Connecticut Construction and Maintenance Environmental Requirements, and applicable regulatory approvals. See Detail Sheets 5 & 7.
4. T&E Species Avoidance and Minimization Measures are required within indicated areas. See Detail Sheet 5.
5. Within 100- and 500-year floodplain areas, construction activities will be in accordance with Connecticut Department of Energy and Environmental Protection permit requirements.
6. Grading plans for temporary work pads and guard structure pads, as indicated, must be submitted to the Connecticut Department of Energy and Environmental Protection no later than two weeks prior to earth-disturbing activities for the subject pads.
7. Wetland Invasive Species Control Best Management Practices apply to work within all wetlands with invasive species. See Detail Sheet 5.
8. Farmland Protection Measures are required within indicated areas. See Detail Sheet 8.
9. Locations where access roads are proposed as permanent are indicated. Permanent access roads will remain after construction only if landowner permission is provided. All other access roads are considered temporary in compliance with regulatory requirements. (See Volume 1, Section 3.5.1).

Special avoidance and protective measures are required for areas within mapsheet. Consult HRMP.

FARMLAND PROTECTION MEASURES REQUIRED (SEE DETAIL SHEET 8)

STR	NU STR	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
27	10727	345-kV Single Circuit Steel H-Frame Horizontal Tangent	95	Weathering	Direct Embed
28	10728	345-kV Single Circuit Guyed 3-Pole Steel Horizontal Deadend	90	Weathering	Direct Embed
29	10729	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed
30	10730	345-kV Single Circuit Steel H-Frame Horizontal Tangent	90	Weathering	Direct Embed
31	10731	345-kV Single Circuit Guyed 3-Pole Steel Horizontal Strain	85	Weathering	Direct Embed
32	10732	345-kV Single Circuit Steel H-Frame Horizontal Tangent	100	Weathering	Direct Embed



- New Transmission Structure Pole
- New Transmission Line
- Existing Transmission Structure Pole
- Existing Distribution Lines
- ▲ Existing Distribution Structures
- ▲ New Guy Anchor
- ▲ Relocated Guy Anchor
- New Guy Wire
- Relocated Guy Wire
- Existing Access Road
- Proposed New Access Road
- Alternate Access Road
- Permanent (See Note 9)
- Work Pad
- Limit of Disturbance
- Existing ROW
- Stone Wall
- Property Lines
- NU Property
- Town Line
- Named Public Trails
- Clearing Line (D&M)(SDE)
- Existing Tree Canopy Line
- Wetland
- Open Water
- Perennial Stream
- Intermittent Stream
- Vernal Pool
- Amphibian Breeding Habitat
- T&E Species Area

FOR DEPICTION OF CLEARING LIMIT MODIFICATIONS ONLY
YELLOW = ADDITION ORANGE = REDUCTION

Burns & McDonnell
SINCE 1898

DATE: 2/14/2014
 DESIGNED: M. Kasinskas & M. Goetz

DETAILED: M. Goetz
 CHECKED: M. Kasinskas

Northeast Utilities Service Co.
 THE CONNECTICUT LIGHT & POWER CO.

Interstate Reliability Project Development & Management Plan

BY: M. Goetz
 DATE: 8/30/2013

CHKD: M. Kasinskas
 DATE: 8/30/2013

APP: M. Kasinskas
 DATE: 8/30/2013

Map Sheet 6 of 66

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EROSION AND SEDIMENTATION CONTROLS NOTES

1. Install and maintain erosion and sedimentation controls as necessary to prevent the discharge of sediment to wetlands and watercourses and avoid the discharge of turbid stormwater from the project area.
2. Apply erosion control measures (e.g., mulch, netting, or tackifier) or vegetative cover to areas of disturbed ground to avoid and minimize soil erosion.
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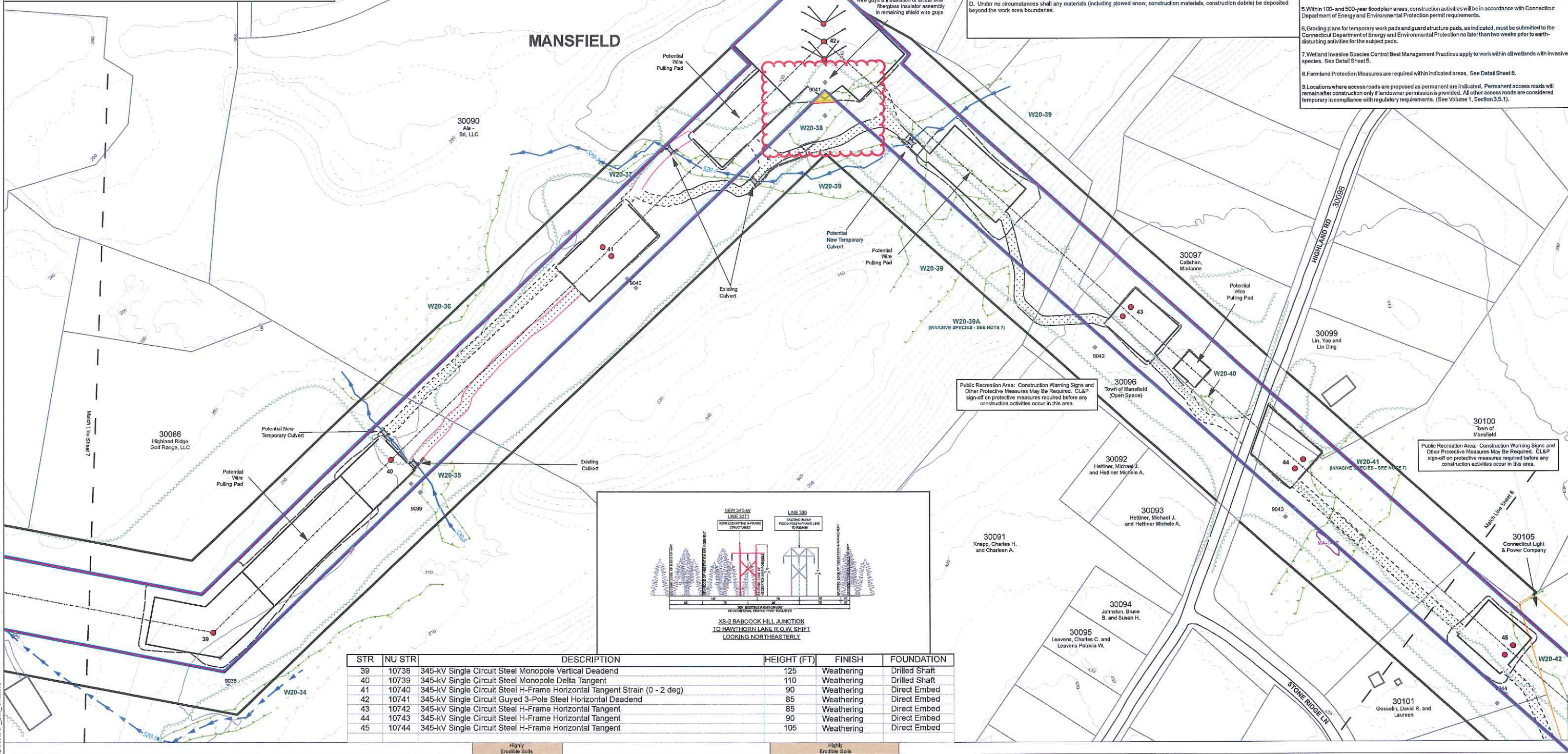
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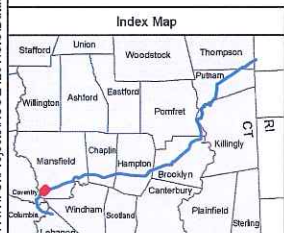
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STR	NU STR	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
39	10738	345-kV Single Circuit Steel Monopole Vertical Deadend	125	Weathering	Drilled Shaft
40	10739	345-kV Single Circuit Steel Monopole Delta Tangent	110	Weathering	Drilled Shaft
41	10740	345-kV Single Circuit Steel H-Frame Horizontal Tangent Strain (0 - 2 deg)	90	Weathering	Direct Embed
42	10741	345-kV Single Circuit Guyed 3-Pole Steel Horizontal Deadend	85	Weathering	Direct Embed
43	10742	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed
44	10743	345-kV Single Circuit Steel H-Frame Horizontal Tangent	90	Weathering	Direct Embed
45	10744	345-kV Single Circuit Steel H-Frame Horizontal Tangent	105	Weathering	Direct Embed



<ul style="list-style-type: none"> New Transmission Structure Pole New Transmission Line Existing Transmission Structure Pole Existing Distribution Lines Existing Distribution Structures New Guy Anchor Relocated Guy Anchor 	<ul style="list-style-type: none"> New Guy Wire Relocated Guy Wire Existing Access Road Proposed New Access Road Alternate Access Road Permanent (See Note 9) Work Pad Limit of Disturbance 	<ul style="list-style-type: none"> Existing ROW Stone Wall Property Lines NU Property Town Line Named Public Trails Clearing Line (D&M)(SDE) Existing Tree Canopy Line 	<ul style="list-style-type: none"> Wetland Open Water Perennial Stream Intermittent Stream Vernal Pool Amphibian Breeding Habitat T&E Species Area
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FOR DEPICTION OF CLEARING LIMIT MODIFICATIONS ONLY

YELLOW = ADDITION ORANGE = REDUCTION

1	2/14/2014	404/401 Permit Revisions	LD	MK		
NO.	DATE	REVISIONS	BY	CHK	APP	APP

Burns & McDonnell
SINCE 1898

DATE: 2/14/2014
DESIGNED: M. Kasinskas & M. Goetz

Northeast Utilities Service Co.
THE CONNECTICUT LIGHT & POWER CO.

**Interstate Reliability Project
Development & Management Plan**

BY: M. Goetz	CHKD: M. Kasinskas	APP: M. Kasinskas	APP: M. Kasinskas
DATE: 8/30/2013	DATE: 8/30/2013	DATE: 8/30/2013	DATE: 8/30/2013

Map Sheet 8 of 66

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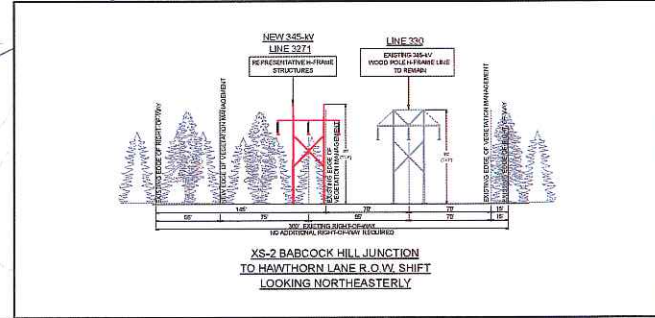
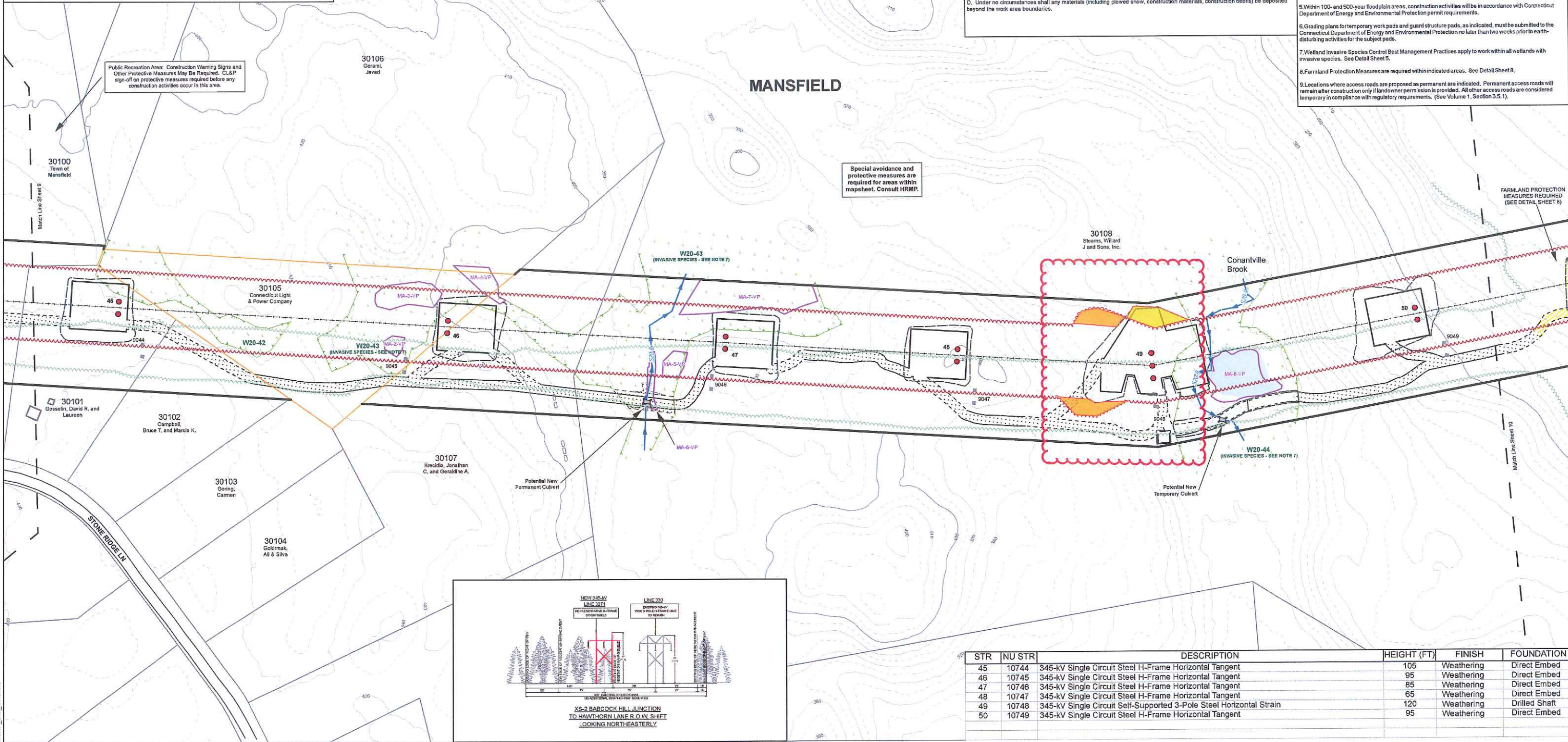
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STR	NU STR	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
45	10744	345-kV Single Circuit Steel H-Frame Horizontal Tangent	105	Weathering	Direct Embed
46	10745	345-kV Single Circuit Steel H-Frame Horizontal Tangent	95	Weathering	Direct Embed
47	10746	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed
48	10747	345-kV Single Circuit Steel H-Frame Horizontal Tangent	65	Weathering	Direct Embed
49	10748	345-kV Single Circuit Self-Supported 3-Pole Steel Horizontal Strain	120	Weathering	Drilled Shaft
50	10749	345-kV Single Circuit Steel H-Frame Horizontal Tangent	95	Weathering	Direct Embed



<ul style="list-style-type: none"> New Transmission Structure Pole New Transmission Line Existing Transmission Structure Pole Existing Distribution Lines Existing Distribution Structures New Guy Anchor Relocated Guy Anchor 	<ul style="list-style-type: none"> New Guy Wire Relocated Guy Wire Existing Access Road Proposed New Access Road Alternate Access Road Permanent (See Note 9) Work Pad Limit of Disturbance 	<ul style="list-style-type: none"> Existing ROW Stone Wall Property Lines NU Property Town Line Named Public Trails Vegetation Clearing Limits for Construction Existing Tree Canopy Line 	<ul style="list-style-type: none"> Wetland Open Water Perennial Stream Intermittent Stream Vernal Pool Amphibian Breeding Habitat T&E Species Area
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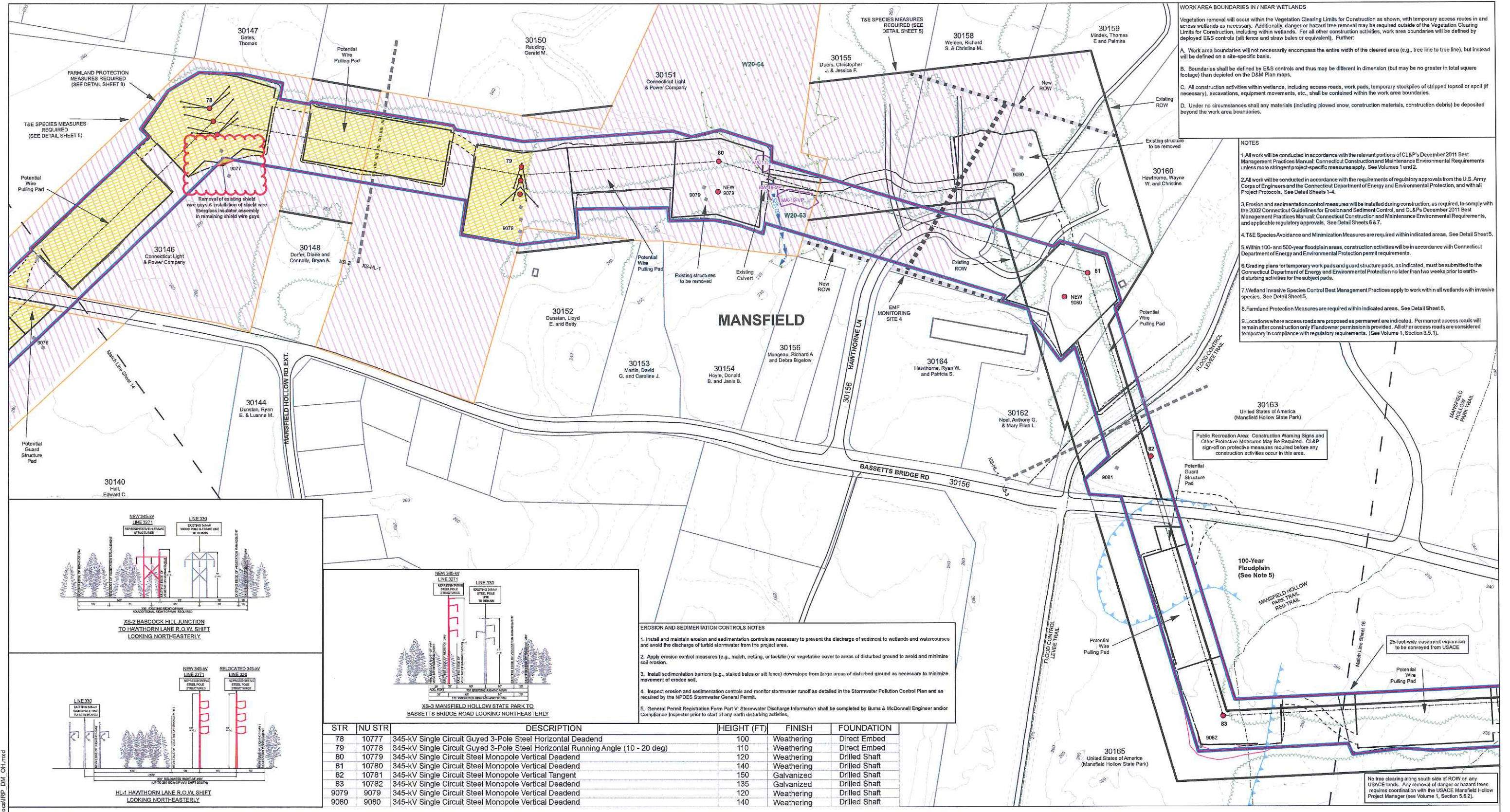
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DESIGNED	CHECKED
M. Kasinskas & M. Goetz	M. Kasinskas

Northeast Utilities Service Co.
THE CONNECTICUT LIGHT & POWER CO.

**Interstate Reliability Project
Development & Management Plan**

BY:	CHKD	APP	APP
DATE: 8/30/2013	DATE	DATE	DATE
64261			Map Sheet 9 of 66

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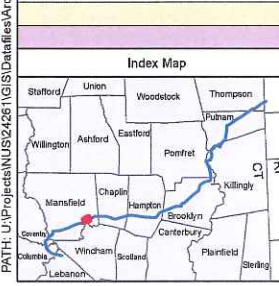
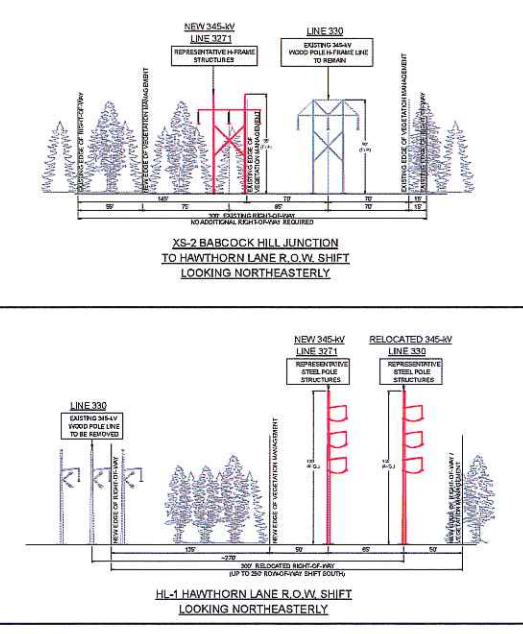
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78	10777	345-kV Single Circuit Guyed 3-Pole Steel Horizontal Deadend	100	Weathering	Direct Embed
79	10778	345-kV Single Circuit Guyed 3-Pole Steel Horizontal Running Angle (10 - 20 deg)	110	Weathering	Direct Embed
80	10779	345-kV Single Circuit Steel Monopole Vertical Deadend	120	Weathering	Drilled Shaft
81	10780	345-kV Single Circuit Steel Monopole Vertical Deadend	140	Weathering	Drilled Shaft
82	10781	345-kV Single Circuit Steel Monopole Vertical Tangent	150	Galvanized	Drilled Shaft
83	10782	345-kV Single Circuit Steel Monopole Vertical Deadend	135	Galvanized	Drilled Shaft
9079	9079	345-kV Single Circuit Steel Monopole Vertical Deadend	120	Weathering	Drilled Shaft
9080	9080	345-kV Single Circuit Steel Monopole Vertical Deadend	140	Weathering	Drilled Shaft



Active Farmland Area

T&E Species

- New Transmission Structure Pole
- New Transmission Line
- Existing Transmission Structure Pole
- Existing Distribution Lines
- Existing Distribution Structures
- New Guy Anchor
- Relocated Guy Anchor
- New Guy Wire
- Relocated Guy Wire
- Existing Access Road
- Proposed New Access Road
- Alternate Access Road
- Permanent (See Note 9)
- Work Pad
- Limit of Disturbance
- Existing ROW
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Interstate Reliability Project Development & Management Plan

DATE: 2/14/2014
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CHECKED: M. Kasinskas

DATE: 8/30/2013
64261

Map Sheet 15 of 66

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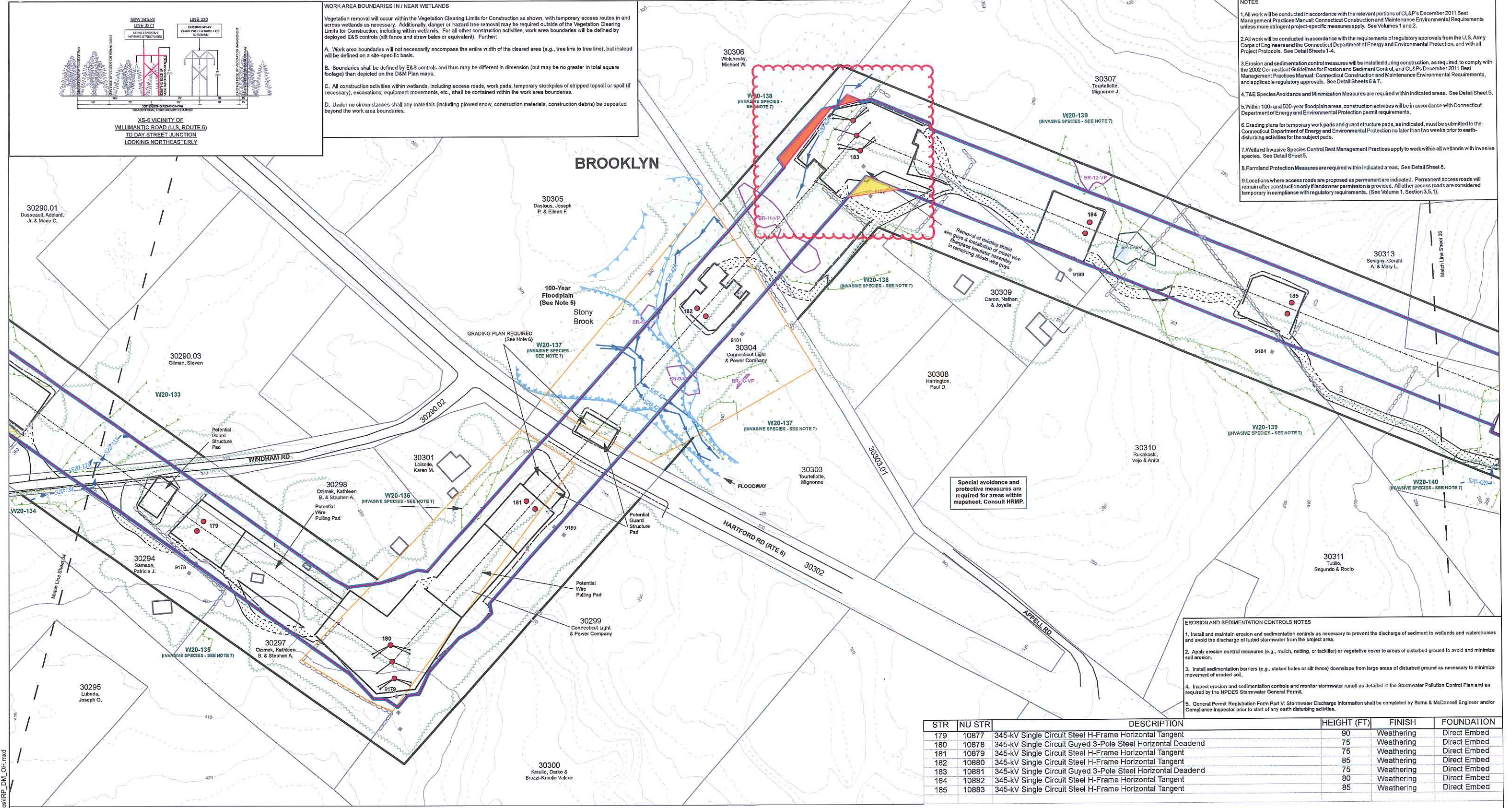
B. Boundaries shall be defined by E&S controls and thus may be different in dimension (but may be no greater in total square footage) than depicted on the D&M Plan maps.

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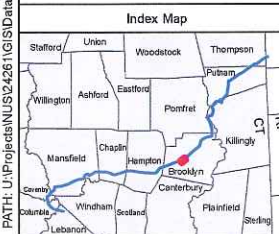


Special avoidance and protective measures are required for areas within mapsheet. Consult HRMP.

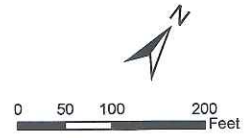
EROSION AND SEDIMENTATION CONTROLS NOTES

- Install and maintain erosion and sedimentation controls as necessary to prevent the discharge of sediment to wetlands and watercourses and avoid the discharge of turbid stormwater from the project area.
- Apply erosion control measures (e.g., mulch, netting, or tackifier) or vegetative cover to areas of disturbed ground to avoid and minimize soil erosion.
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- General Permit Registration Form Part V: Stormwater Discharge Information shall be completed by Burns & McDonnell Engineer and/or Compliance Inspector prior to start of any earth disturbing activities.

STR	NU STR	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
179	10877	345-kV Single Circuit Steel H-Frame Horizontal Tangent	90	Weathering	Direct Embed
180	10878	345-kV Single Circuit Guyed 3-Pole Steel Horizontal Deadend	75	Weathering	Direct Embed
181	10879	345-kV Single Circuit Steel H-Frame Horizontal Tangent	75	Weathering	Direct Embed
182	10880	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed
183	10881	345-kV Single Circuit Guyed 3-Pole Steel Horizontal Deadend	75	Weathering	Direct Embed
184	10882	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed
185	10883	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed



- New Transmission Structure Pole
- New Transmission Line
- Existing Transmission Structure Pole
- Existing Distribution Lines
- Existing Distribution Structures
- ▲ New Guy Anchor
- ▲ Relocated Guy Anchor
- New Guy Wire
- Relocated Guy Wire
- Existing Access Road
- Proposed New Access Road
- Alternate Access Road
- Permanent (See Note 9)
- Work Pad
- Limit of Disturbance
- Existing ROW
- Stone Wall
- Property Lines
- NU Property
- Town Line
- Named Public Trails
- Clearing Line (D&M)(SDE)
- Existing Tree Canopy Line
- Wetland
- Open Water
- Perennial Stream
- Intermittent Stream
- Vernal Pool
- Amphibian Breeding Habitat
- T&E Species Area



**FOR DEPICTION OF CLEARING
LIMIT MODIFICATIONS ONLY**

YELLOW = ADDITION ORANGE = REDUCTION

Burns & McDonnell
SINCE 1898

DATE: 2/14/2014
DESIGNED BY: M. Kasinskas & M. Goetz

DATE: 8/30/2013
CHECKED BY: M. Kasinskas

Northeast Utilities Service Co.
THE CONNECTICUT LIGHT & POWER CO.

**Interstate Reliability Project
Development & Management Plan**

DATE: 8/30/2013
BY: M. Kasinskas

DATE: 8/30/2013
APP: M. Kasinskas

DATE: 8/30/2013
APP: M. Kasinskas

Map Sheet 35 of 66

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EROSION AND SEDIMENTATION CONTROLS NOTES

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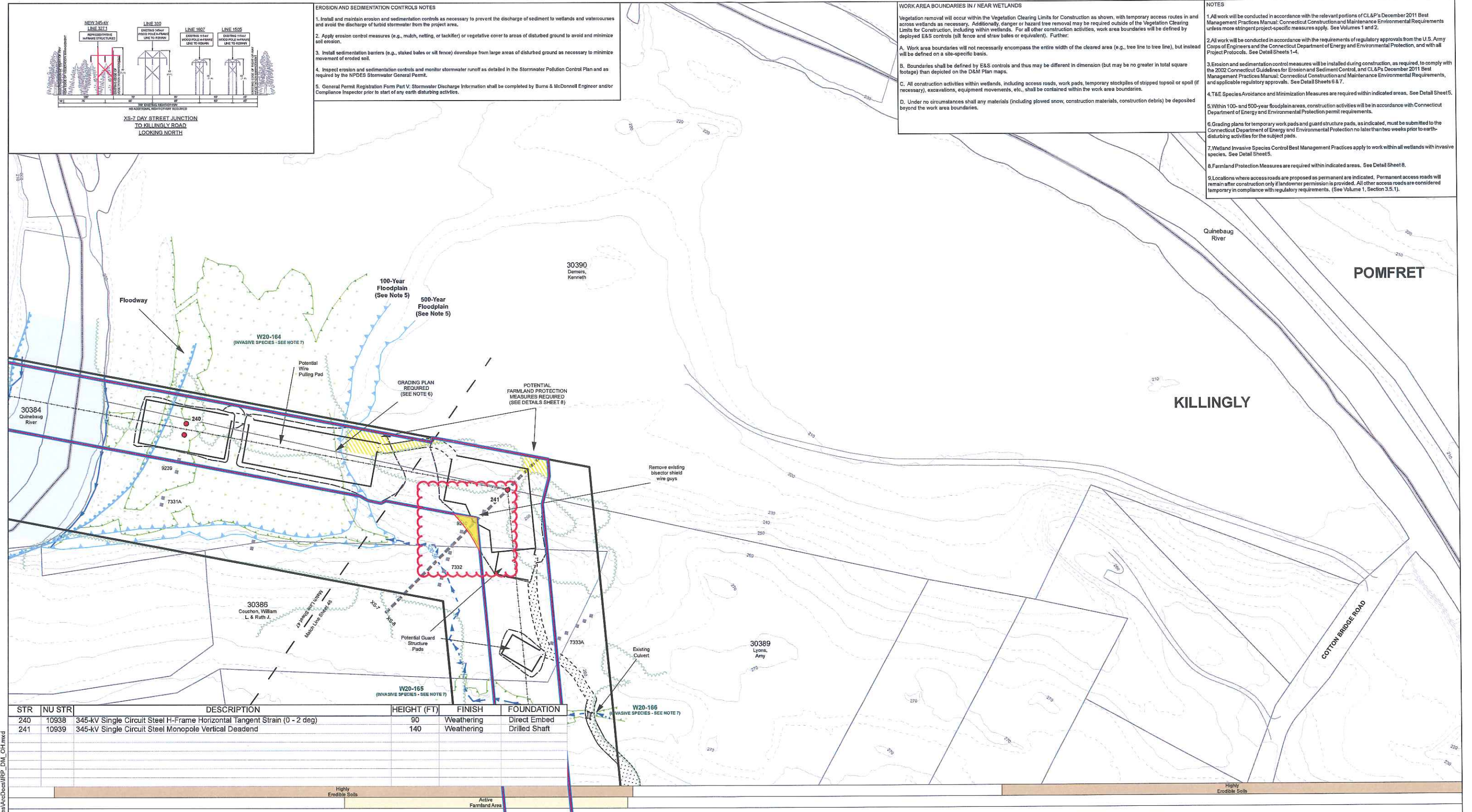
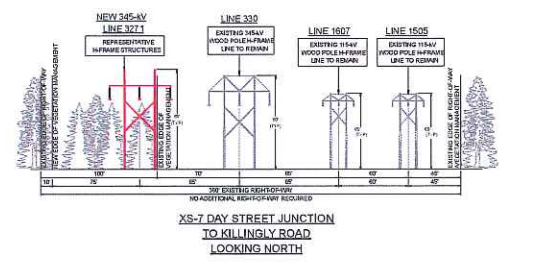
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STR	NU STR	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
240	10938	345-kV Single Circuit Steel H-Frame Horizontal Tangent Strain (0 - 2 deg)	90	Weathering	Direct Embed
241	10939	345-kV Single Circuit Steel Monopole Vertical Deadend	140	Weathering	Drilled Shaft

Index Map

Legend:

- New Transmission Structure Pole
- New Transmission Line
- Existing Transmission Structure Pole
- Existing Distribution Lines
- Existing Distribution Structures
- New Guy Anchor
- Relocated Guy Anchor
- New Guy Wire
- Relocated Guy Wire
- Existing Access Road
- Proposed New Access Road
- Alternate Access Road
- Permanent (See Note 9)
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- Existing Tree Canopy Line
- Wetland
- Open Water
- Perennial Stream
- Intermittent Stream
- Vernal Pool
- Amphibian Breeding Habitat
- T&E Species Area

Scale: 0 50 100 200 Feet

FOR DEPICTION OF CLEARING LIMIT MODIFICATIONS ONLY
YELLOW = ADDITION ORANGE = REDUCTION

NO.	DATE	REVISIONS	BY	CHK	APP	APP
1	2/14/2014	404/401 Permit Revisions	LD	MK		

Burns & McDonnell
SINCE 1898

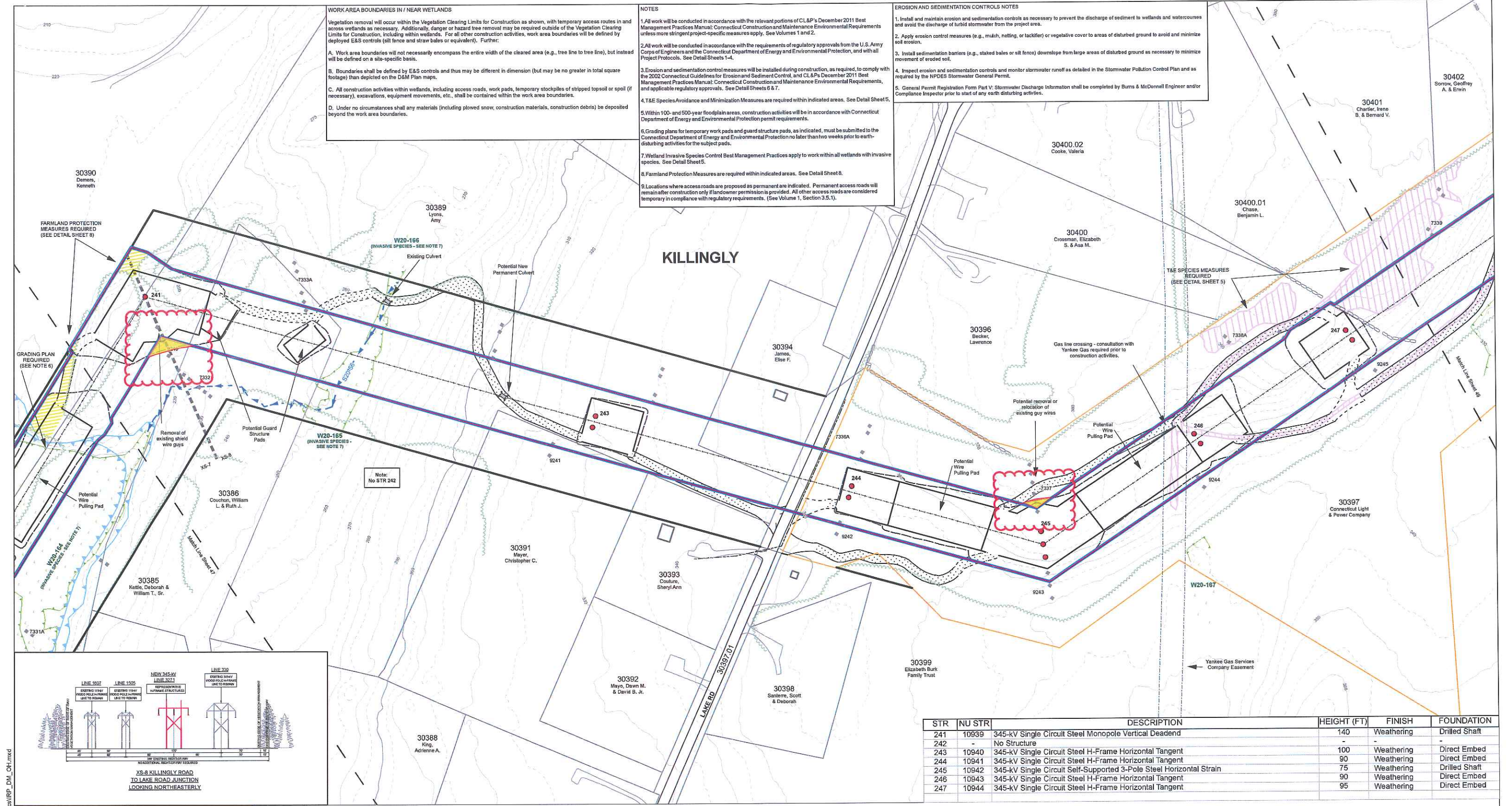
DATE	DESIGNED	Detailed
2/14/2014	M. Kasinskas & M. Goetz	M. Goetz
		Checked
		M. Kasinskas

Northeast Utilities Service Co.
THE CONNECTICUT LIGHT & POWER CO.

Interstate Reliability Project Development & Management Plan

BY:	CHKD	APP	APP
DATE: 8/30/2013	DATE	DATE	DATE
64261			Map Sheet 47A of 66

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WORK AREA BOUNDARIES IN / NEAR WETLANDS

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EROSION AND SEDIMENTATION CONTROLS NOTES

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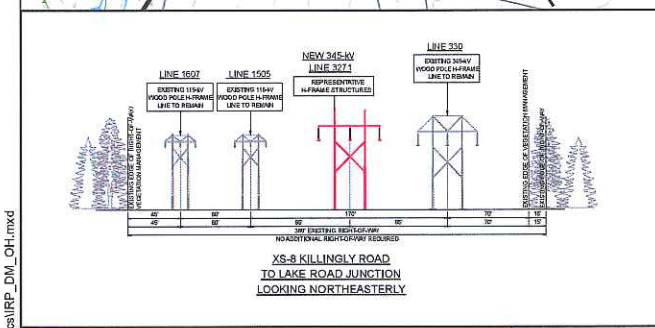
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FARMLAND PROTECTION MEASURES REQUIRED (SEE DETAIL SHEET 8)

GRADING PLAN REQUIRED (SEE NOTE 6)

T&E SPECIES MEASURES REQUIRED (SEE DETAIL SHEET 5)



STR	NU STR	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
241	10939	345-kV Single Circuit Steel Monopole Vertical Deadend	140	Weathering	Drilled Shaft
242	-	No Structure	-	-	-
243	10940	345-kV Single Circuit Steel H-Frame Horizontal Tangent	100	Weathering	Direct Embed
244	10941	345-kV Single Circuit Steel H-Frame Horizontal Tangent	90	Weathering	Direct Embed
245	10942	345-kV Single Circuit Self-Supported 3-Pole Steel Horizontal Strain	75	Weathering	Drilled Shaft
246	10943	345-kV Single Circuit Steel H-Frame Horizontal Tangent	90	Weathering	Direct Embed
247	10944	345-kV Single Circuit Steel H-Frame Horizontal Tangent	95	Weathering	Direct Embed

Index Map

Highly Erodible Soils
Active Farmland Area

● New Transmission Structure Pole
 --- New Transmission Line
 ■ Existing Transmission Structure Pole
 --- Existing Distribution Lines
 ■ Existing Distribution Structures
 ▲ New Guy Anchor
 ● Relocated Guy Anchor

--- New Guy Wire
 --- Relocated Guy Wire
 --- Existing Access Road
 --- Proposed New Access Road
 --- Alternate Access Road
 --- Permanent (See Note 9)
 ■ Work Pad
 ■ Limit of Disturbance

--- Existing ROW
 --- Stone Wall
 --- Property Lines
 --- NU Property
 --- Town Line
 --- Named Public Trails
 --- Clearing Line (D&M)(SDE)
 --- Existing Tree Canopy Line

Wetland
 Open Water
 Perennial Stream
 Intermittent Stream
 Vernal Pool
 Amphibian Breeding Habitat
 T&E Species Area

FOR DEPICTION OF CLEARING LIMIT MODIFICATIONS ONLY
YELLOW = ADDITION ORANGE = REDUCTION

NO.	DATE	REVISIONS	BY	CHK	APP	APP
1	2/14/2014	404/401 Permit Revisions	LD	MK		

Burns & McDonnell
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Northeast Utilities Service Co.
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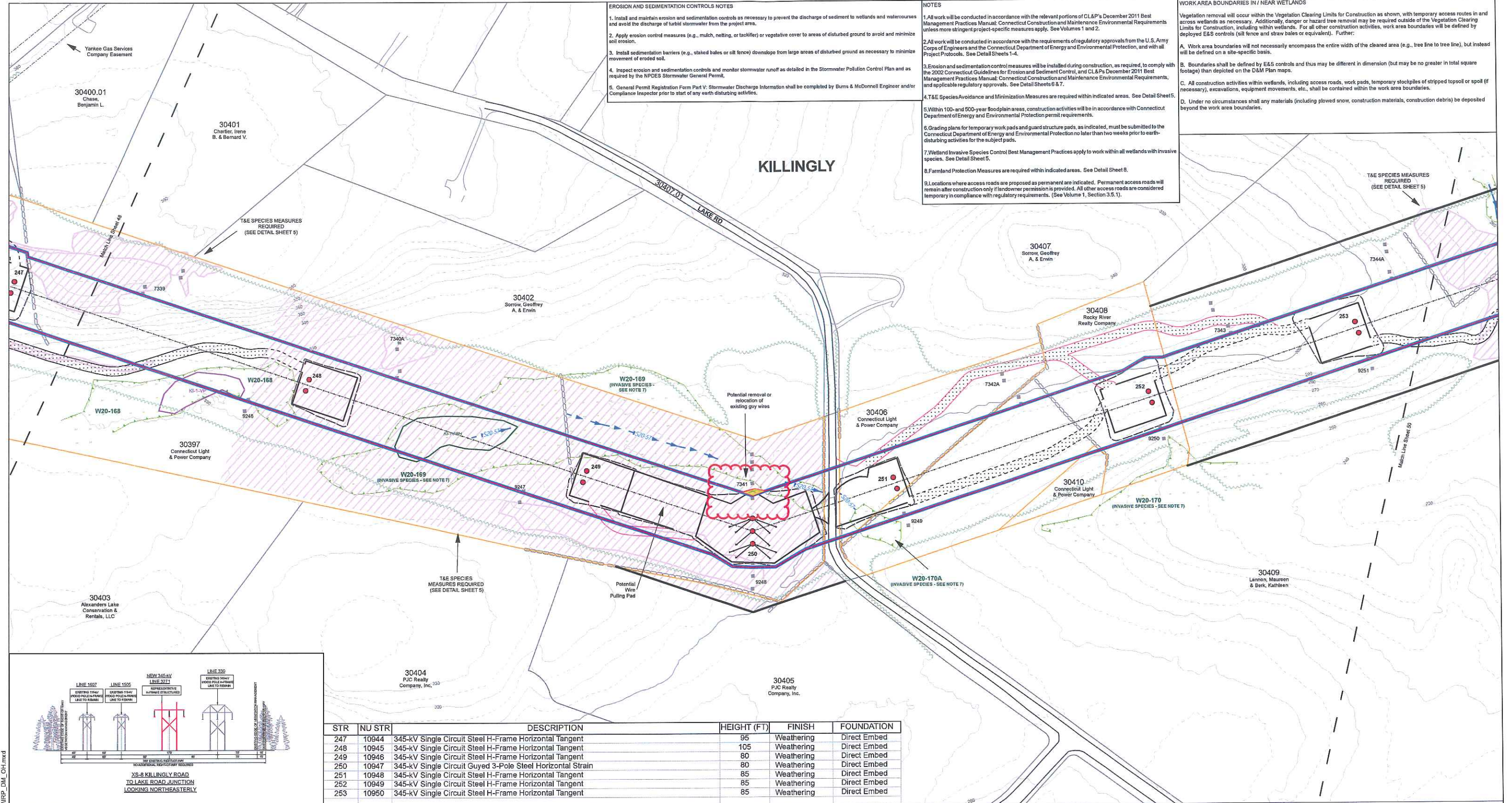
Interstate Reliability Project
Development & Management Plan

DATE: 2/14/2014
DESIGNED: M. Kasinskas & M. Goetz
CHECKED: M. Kasinskas

DATE: 8/30/2013
BY: 64261
CHKD: APP
DATE: DATE
APP: DATE

Map Sheet 48 of 66

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EROSION AND SEDIMENTATION CONTROLS NOTES

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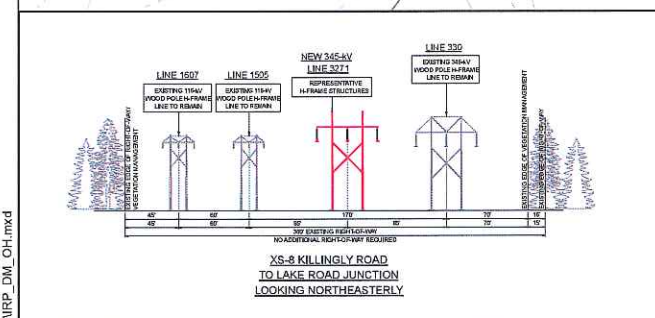
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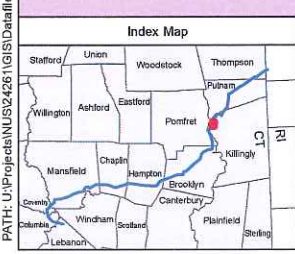
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248	10945	345-kV Single Circuit Steel H-Frame Horizontal Tangent	105	Weathering	Direct Embed
249	10946	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed
250	10947	345-kV Single Circuit Guyed 3-Pole Steel Horizontal Strain	80	Weathering	Direct Embed
251	10948	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed
252	10949	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed
253	10950	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed



T&E Species

- New Transmission Structure Pole
- New Transmission Line
- Existing Transmission Structure Pole
- Existing Distribution Lines
- Existing Distribution Structures
- New Guy Anchor
- Relocated Guy Anchor
- New Guy Wire
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DATE: 2/14/2014

DESIGNED: M. Kasinskas & M. Goetz

CHECKED: M. Kasinskas

DATE: 8/30/2013

NO. DATE REVISIONS BY CHK APP APP

1 2/14/2014 404/401 Permit Revisions LD MK

Burns & McDonnell
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Northeast Utilities Service Co.
THE CONNECTICUT LIGHT & POWER CO.

Interstate Reliability Project
Development & Management Plan

DATE: 8/30/2013

Map Sheet 49 of 66

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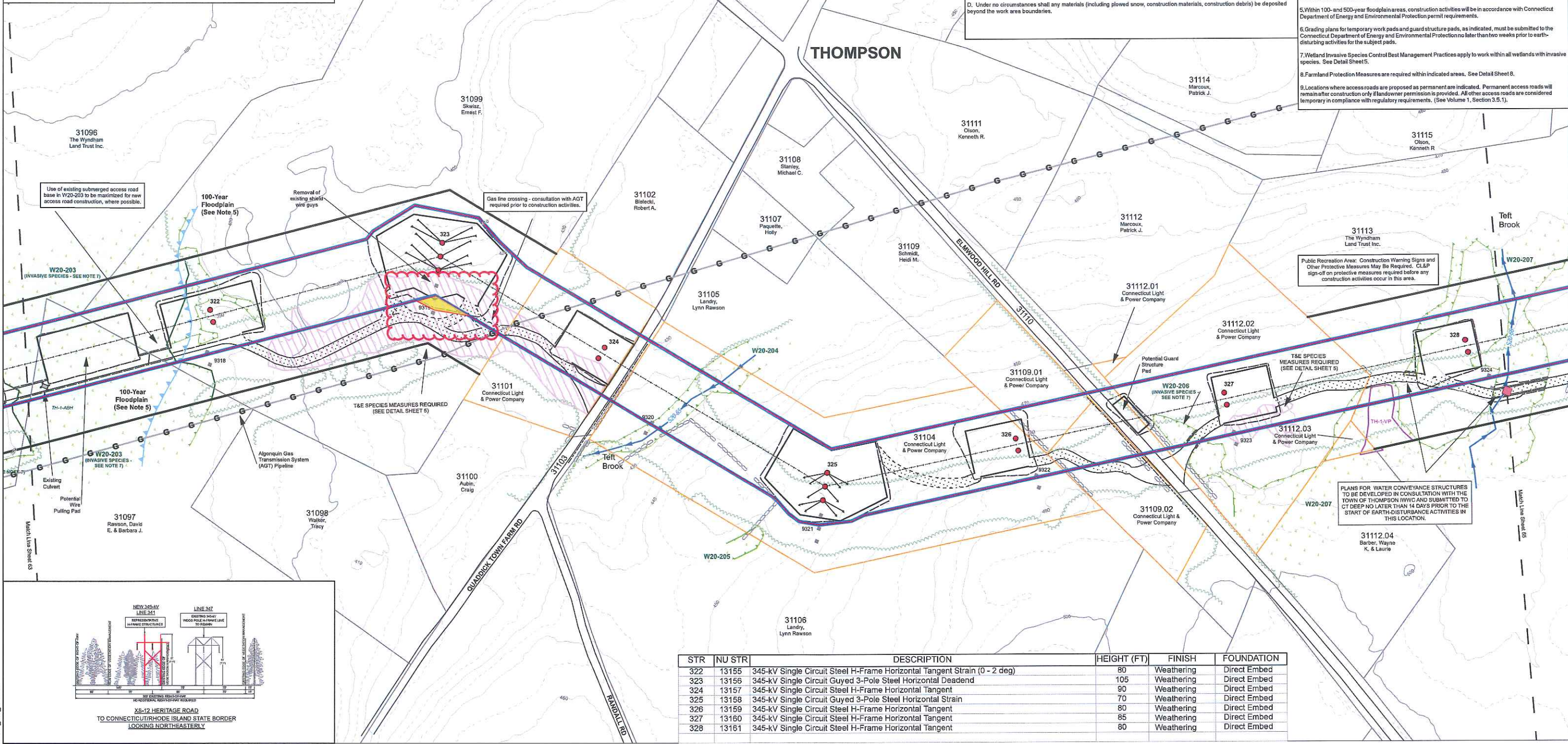
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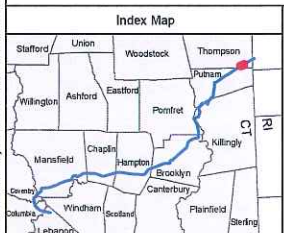
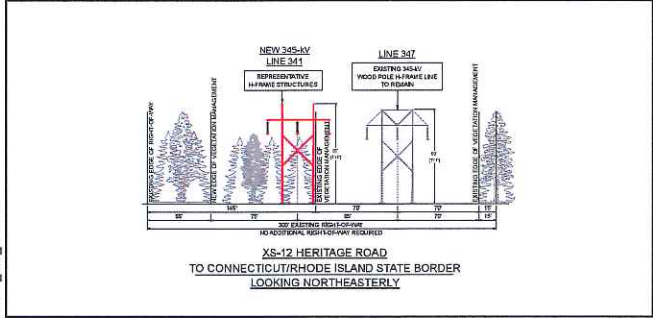
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STR	NU STR	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
322	13155	345-kV Single Circuit Steel H-Frame Horizontal Tangent Strain (0 - 2 deg)	80	Weathering	Direct Embed
323	13156	345-kV Single Circuit Guyed 3-Pole Steel Horizontal Deadend	105	Weathering	Direct Embed
324	13157	345-kV Single Circuit Steel H-Frame Horizontal Tangent	90	Weathering	Direct Embed
325	13158	345-kV Single Circuit Guyed 3-Pole Steel Horizontal Strain	70	Weathering	Direct Embed
326	13159	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed
327	13160	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed
328	13161	345-kV Single Circuit Steel H-Frame Horizontal Tangent	80	Weathering	Direct Embed



Legend

- New Transmission Structure Pole
- New Transmission Line
- Existing Transmission Structure Pole
- Existing Distribution Lines
- Existing Distribution Structures
- New Guy Anchor
- Relocated Guy Anchor
- New Guy Wire
- Relocated Guy Wire
- Existing Access Road
- Proposed New Access Road
- Alternate Access Road
- Permanent (See Note 9)
- Work Pad
- Limit of Disturbance
- Existing ROW
- Stone Wall
- Property Lines
- NU Property
- Town Line
- Named Public Trails
- Clearing Line (D&M)(SDE)
- Existing Tree Canopy Line
- Wetland
- Open Water
- Perennial Stream
- Intermittent Stream
- Vernal Pool
- Amphibian Breeding Habitat
- T&E Species Area

FOR DEPICTION OF CLEARING LIMIT MODIFICATIONS ONLY

YELLOW = ADDITION ORANGE = REDUCTION

DATE: 2/14/2014

404/401 Permit Revisions

LD MK

NO. DATE REVISIONS BY CHK APP APP

Burns & McDonnell
SINCE 1898

DATE: 2/14/2014

DESIGNED: M. Kasinskas & M. Goetz

DETAILED: M. Goetz

CHECKED: M. Kasinskas

Northeast Utilities Service Co.
THE CONNECTICUT LIGHT & POWER CO.

Interstate Reliability Project Development & Management Plan

BY: M. Kasinskas

CHKD: M. Goetz

APP: M. Kasinskas

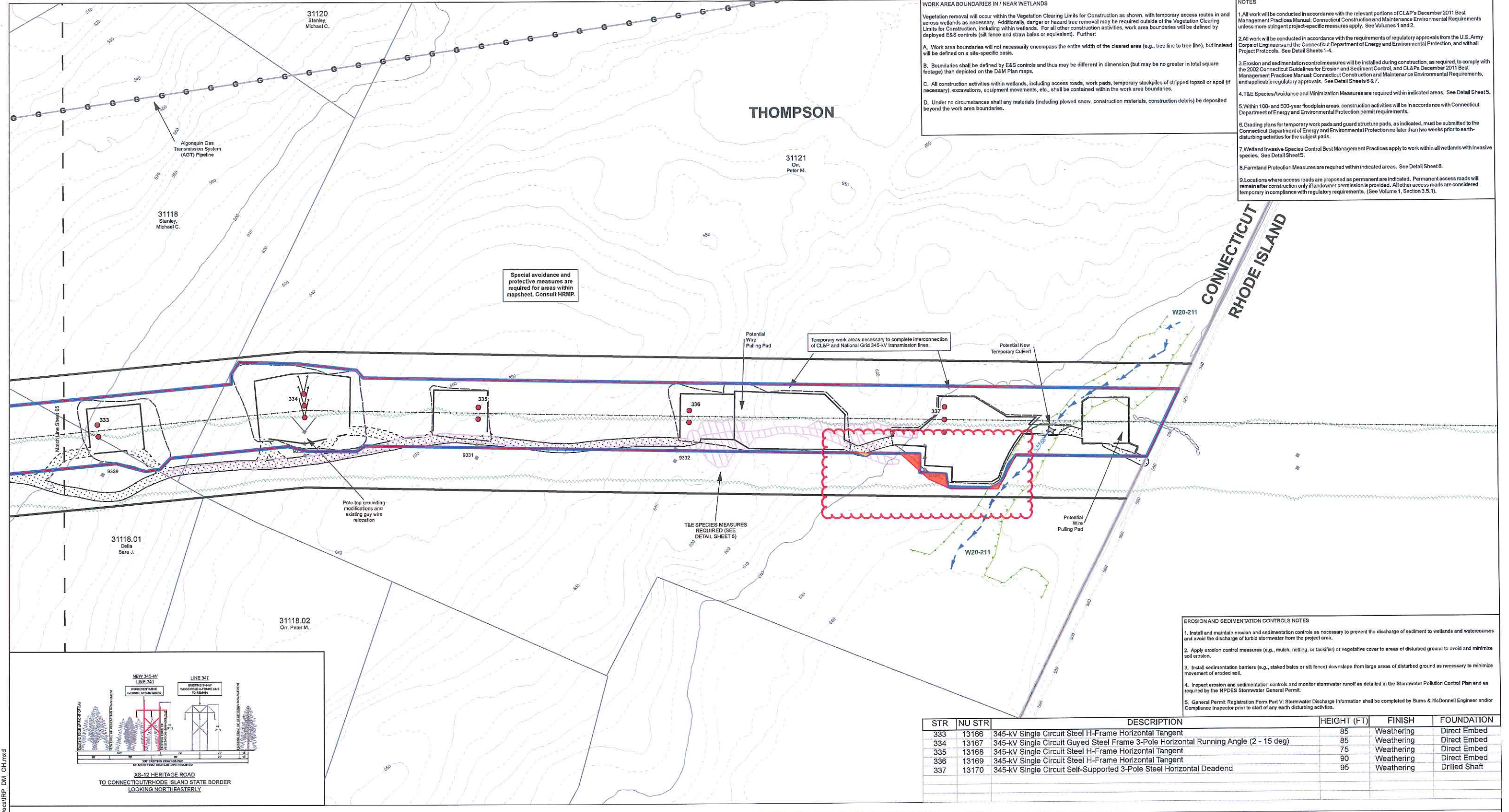
DATE: 8/30/2013

DATE: 2/14/2014

DATE: 2/14/2014

Map Sheet 64 of 66

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WORK AREA BOUNDARIES IN / NEAR WETLANDS

Vegetation removal will occur within the Vegetation Clearing Limits for Construction as shown, with temporary access routes in and across wetlands as necessary. Additionally, danger or hazard tree removal may be required outside of the Vegetation Clearing Limits for Construction, including within wetlands. For all other construction activities, work area boundaries will be defined by deployed E&S controls (silt fence and straw bales or equivalent). Further:

A. Work area boundaries will not necessarily encompass the entire width of the cleared area (e.g., tree line to tree line), but instead will be defined on a site-specific basis.

B. Boundaries shall be defined by E&S controls and thus may be different in dimension (but may be no greater in total square footage) than depicted on the D&M Plan maps.

C. All construction activities within wetlands, including access roads, work pads, temporary stockpiles of stripped topsoil or spoil (if necessary), excavations, equipment movements, etc., shall be contained within the work area boundaries.

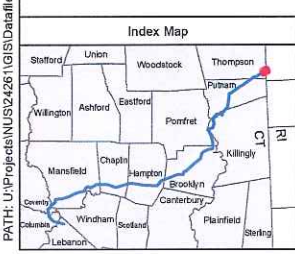
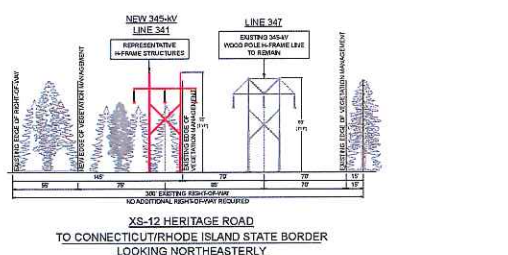
D. Under no circumstances shall any materials (including plowed snow, construction materials, construction debris) be deposited beyond the work area boundaries.

- NOTES**
- All work will be conducted in accordance with the relevant portions of CL&P's December 2011 Best Management Practices Manual, Connecticut Construction and Maintenance Environmental Requirements unless more stringent project-specific measures apply. See Volumes 1 and 2.
 - 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. See Detail Sheets 1-4.
 - Erosion and sedimentation control measures will be installed during construction, as required, to comply with the 2002 Connecticut Guidelines for Erosion and Sediment Control, and CL&P's December 2011 Best Management Practices Manual, Connecticut Construction and Maintenance Environmental Requirements, and applicable regulatory approvals. See Detail Sheets 6 & 7.
 - T&E Species Avoidance and Minimization Measures are required within indicated areas. See Detail Sheet 5.
 - Within 100- and 500-year floodplain areas, construction activities will be in accordance with Connecticut Department of Energy and Environmental Protection permit requirements.
 - Grading plans for temporary work pads and guard structure pads, as indicated, must be submitted to the Connecticut Department of Energy and Environmental Protection no later than two weeks prior to earth-disturbing activities for the subject pads.
 - Wetland Invasive Species Control Best Management Practices apply to work within all wetlands with invasive species. See Detail Sheet 5.
 - Farmland Protection Measures are required within indicated areas. See Detail Sheet 8.
 - Locations where access roads are proposed as permanent are indicated. Permanent access roads will remain after construction only if landowner permission is provided. All other access roads are considered temporary in compliance with regulatory requirements. (See Volume 1, Section 3.5.1).

EROSION AND SEDIMENTATION CONTROLS NOTES

- Install and maintain erosion and sedimentation controls as necessary to prevent the discharge of sediment to wetlands and watercourses and avoid the discharge of turbid stormwater from the project area.
- Apply erosion control measures (e.g., mulch, netting, or tackifier) or vegetative cover to areas of disturbed ground to avoid and minimize soil erosion.
- Install sedimentation barriers (e.g., stacked bales or silt fence) downslope from large areas of disturbed ground as necessary to minimize movement of eroded soil.
- Inspect erosion and sedimentation controls and monitor stormwater runoff as detailed in the Stormwater Pollution Control Plan and as required by the NPDES Stormwater General Permit.
- General Permit Registration Form Part V: Stormwater Discharge Information shall be completed by Burns & McDonnell Engineer and/or Compliance Inspector prior to start of any earth disturbing activities.

STR	NU STR	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
333	13166	345-kV Single Circuit Steel H-Frame Horizontal Tangent	85	Weathering	Direct Embed
334	13167	345-kV Single Circuit Guyed Steel Frame 3-Pole Horizontal Running Angle (2 - 15 deg)	85	Weathering	Direct Embed
335	13168	345-kV Single Circuit Steel H-Frame Horizontal Tangent	75	Weathering	Direct Embed
336	13169	345-kV Single Circuit Steel H-Frame Horizontal Tangent	90	Weathering	Direct Embed
337	13170	345-kV Single Circuit Self-Supported 3-Pole Steel Horizontal Deadend	95	Weathering	Drilled Shaft



- Legend**
- New Transmission Structure Pole
 - New Transmission Line
 - Existing Transmission Structure Pole
 - Existing Distribution Lines
 - Existing Distribution Structures
 - New Guy Anchor
 - Relocated Guy Anchor
 - New Guy Wire
 - Relocated Guy Wire
 - Existing Access Road
 - Proposed New Access Road
 - Alternate Access Road
 - Permanent (See Note 9)
 - Work Pad
 - Limit of Disturbance
 - Existing ROW
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1	2/14/2014	404/401 Permit Revisions	LD	MK		

Burns & McDonnell
SINCE 1898

DATE: 2/14/2014
 DETAILED: M. Goetz
 DESIGNED: M. Kasinskas & M. Goetz
 CHECKED: M. Kasinskas

Northeast Utilities Service Co.
 THE CONNECTICUT LIGHT & POWER CO.

Interstate Reliability Project
Development & Management Plan

BY: M. Kasinskas
 DATE: 8/30/2013
 CHKD: M. Kasinskas
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 APP: M. Kasinskas
 DATE: 8/30/2013

Map Sheet 66 of 66

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