

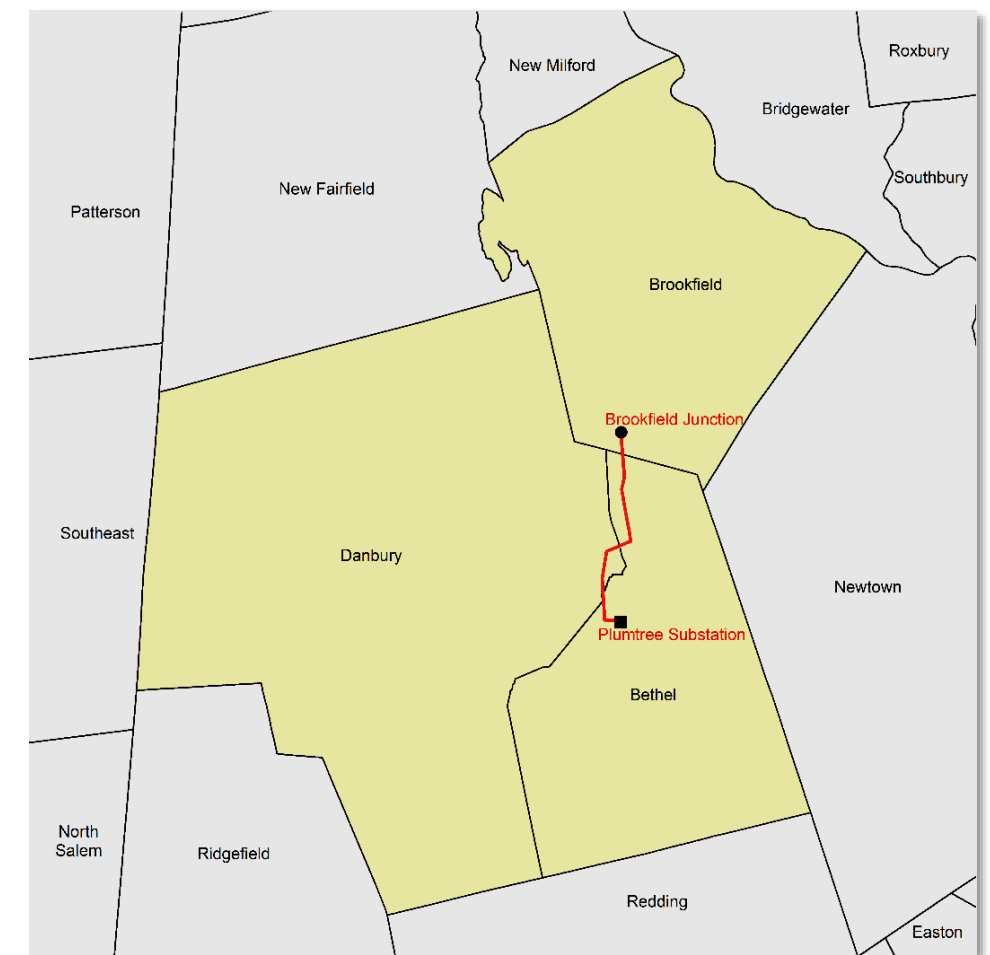
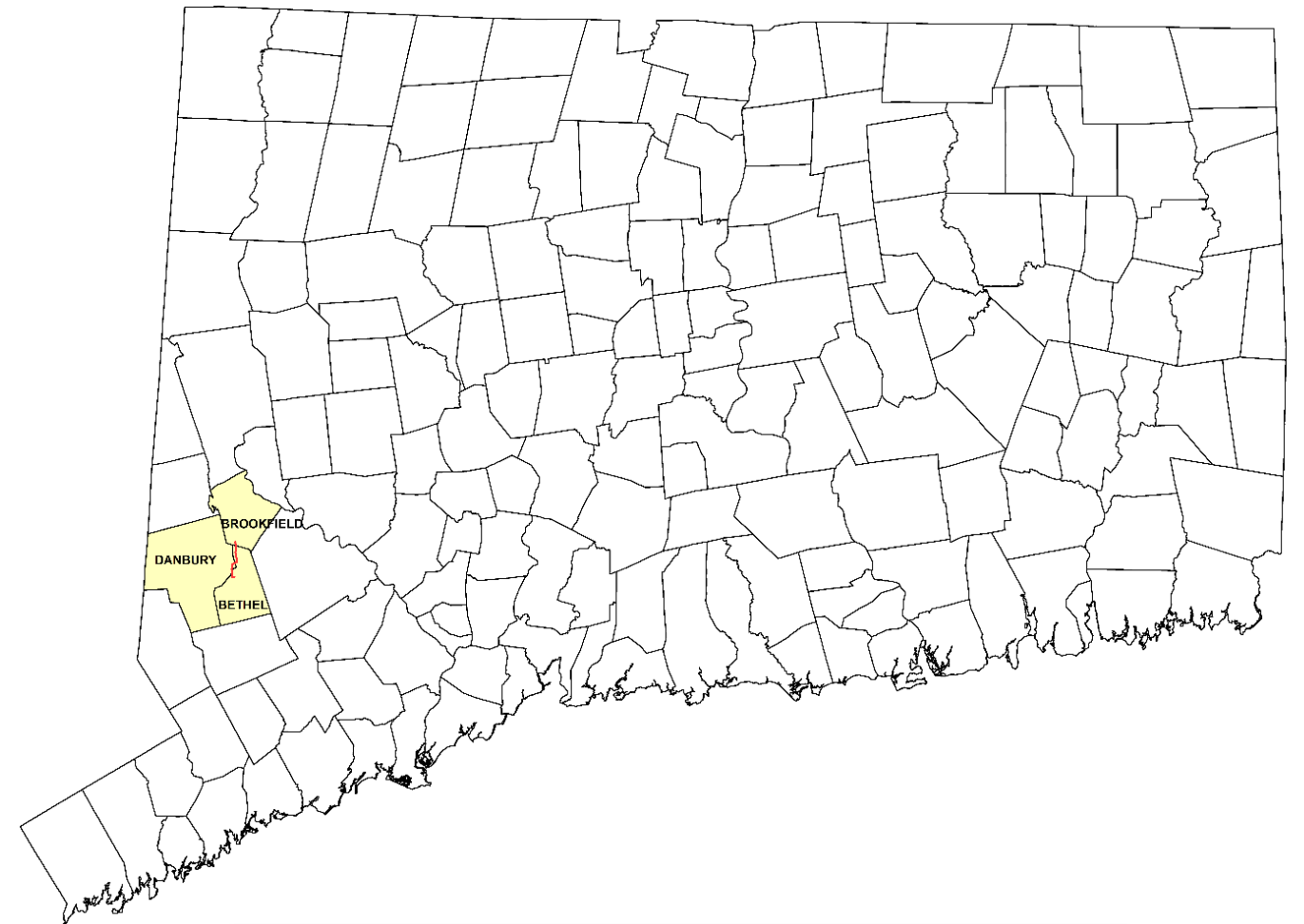


SOUTHWEST CONNECTICUT RELIABILITY PROJECT

DEVELOPMENT AND MANAGEMENT PLAN
FOR
NEW 115-KV TRANSMISSION LINE

VOLUME 2
MAPS AND DRAWINGS

JUNE 2017



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CROSS SECTION SHEETS

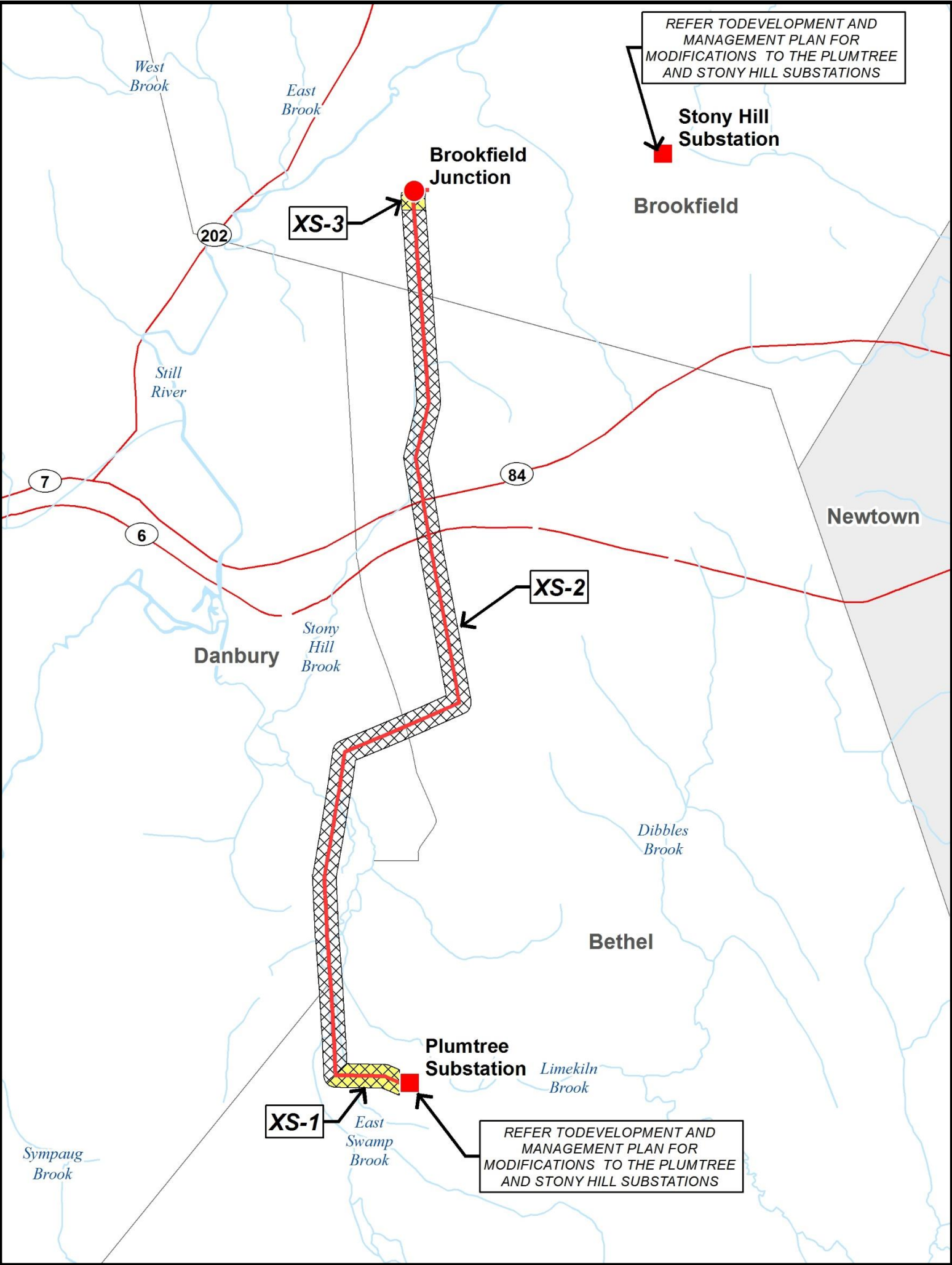
XS-1	PLUMTREE SUBSTATION TO STRUCTURE 1003
XS-2	STRUCTURE 1004 TO BROOKFIELD JUNCTION
XS-3	BROOKFIELD JUNCTION

MAPSHEETS

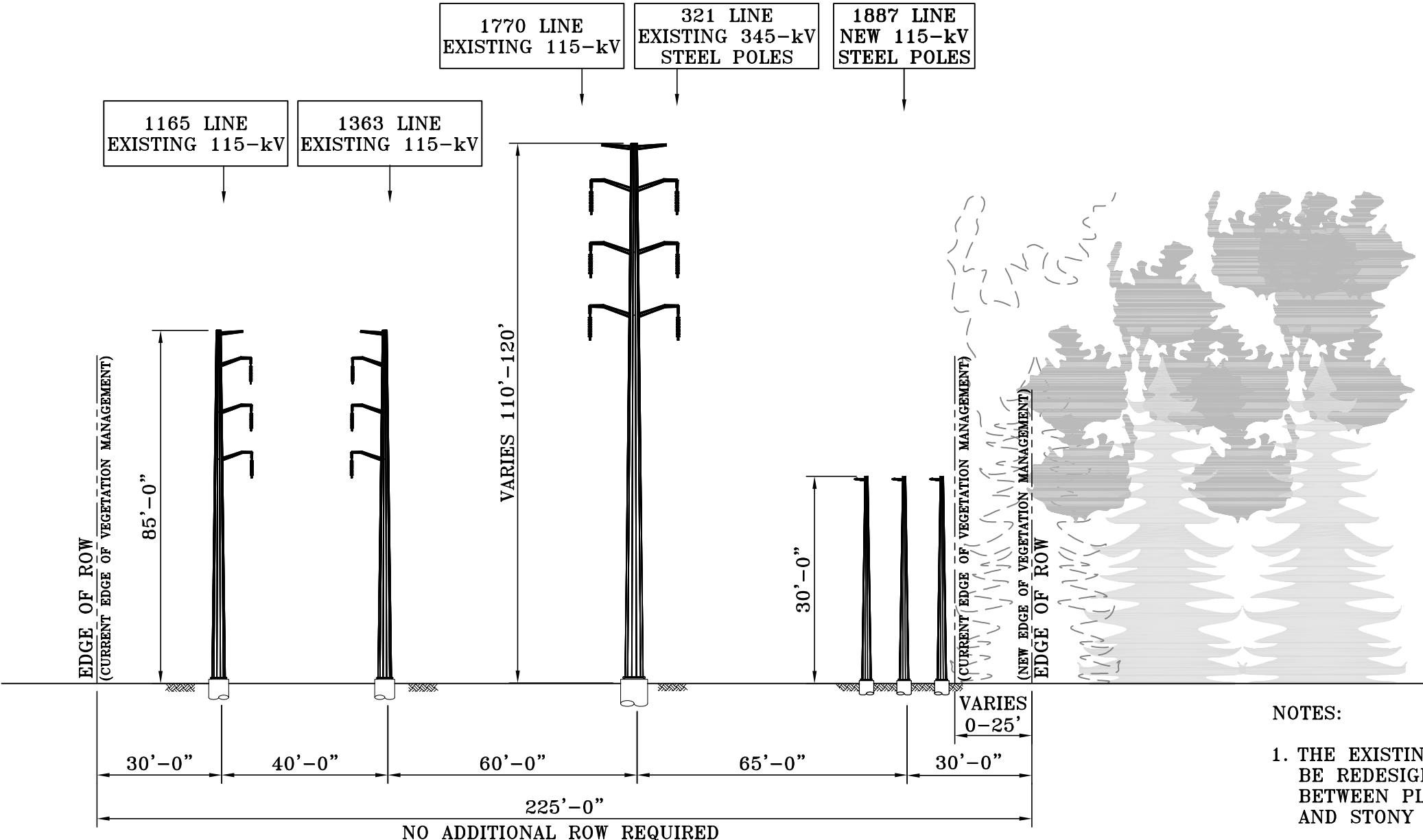
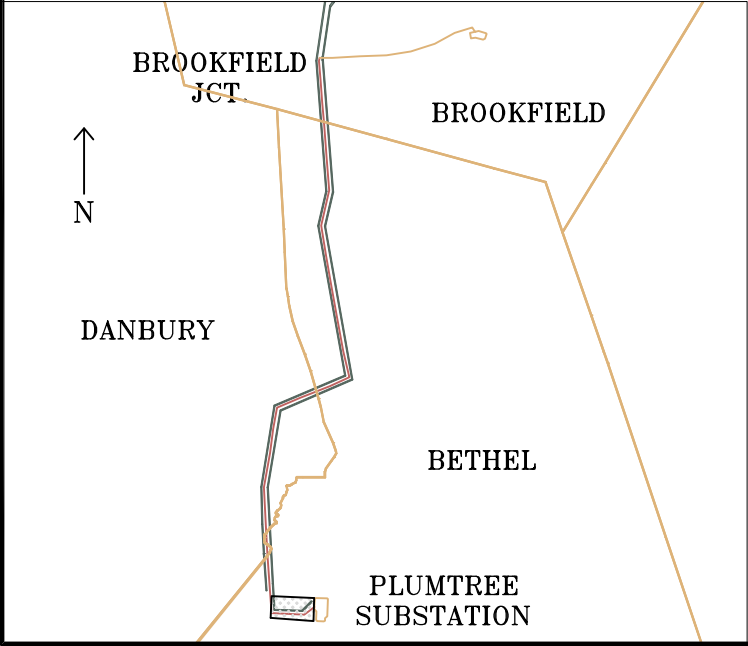
MAPSHEET INDEX	
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	DEVELOPMENT AND MANAGEMENT PLAN

DETAIL SHEETS

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2	WATER RESOURCE PROTOCOLS
3	RARE SPECIES AVOIDANCE AND MINIMIZATION MEASURES – PLANT
4	RARE SPECIES AVOIDANCE AND MINIMIZATION MEASURES – ANIMAL
5	EROSION AND SEDIMENT CONTROL DETAILS
6	TYPICAL STRUCTURE CONFIGURATIONS
7	TYPICAL FOUNDATION AND GROUNDING DETAILS
8	ACCESS ROAD DETAILS
9	FLOODPLAIN COMPENSATION DETAILS



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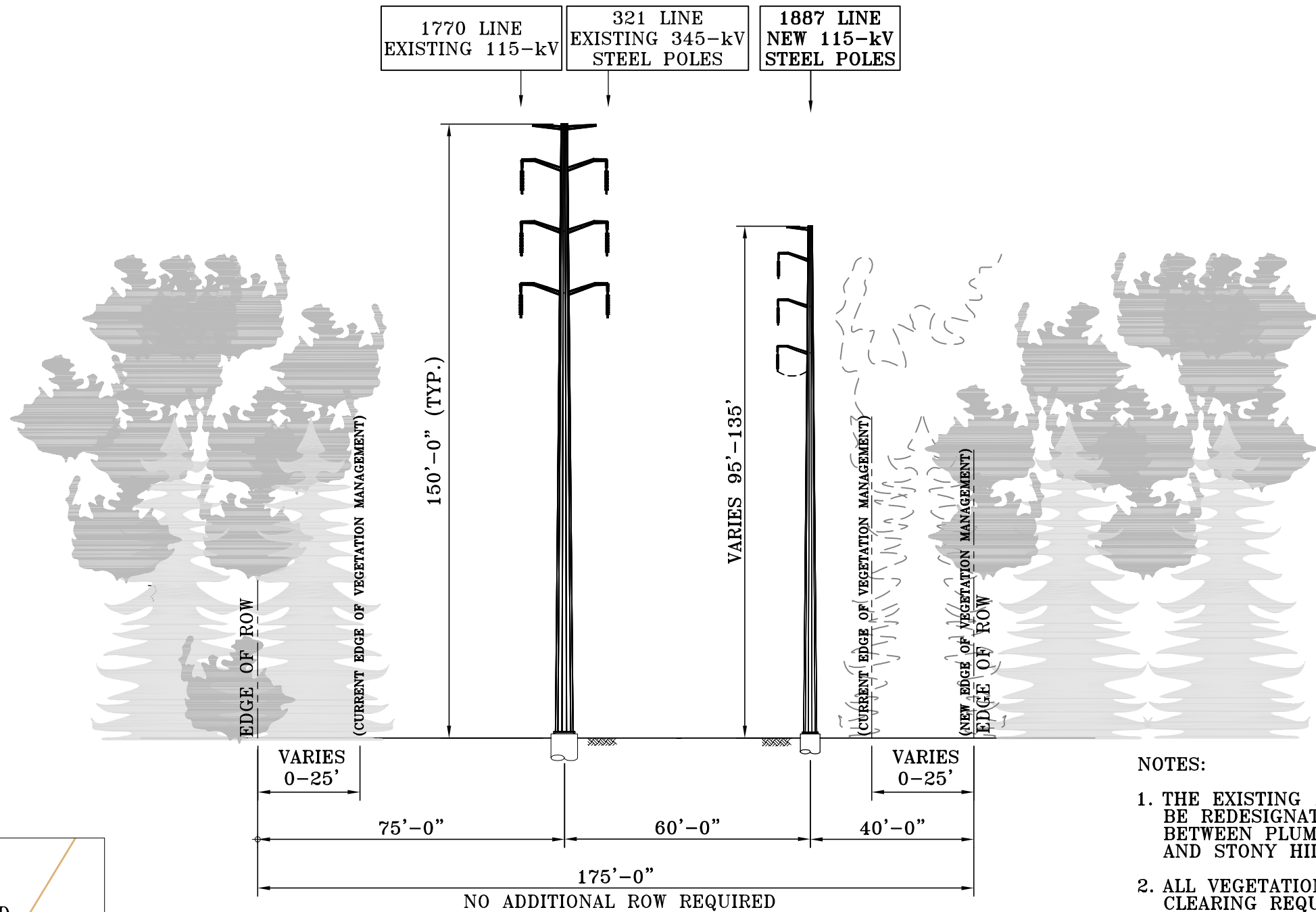
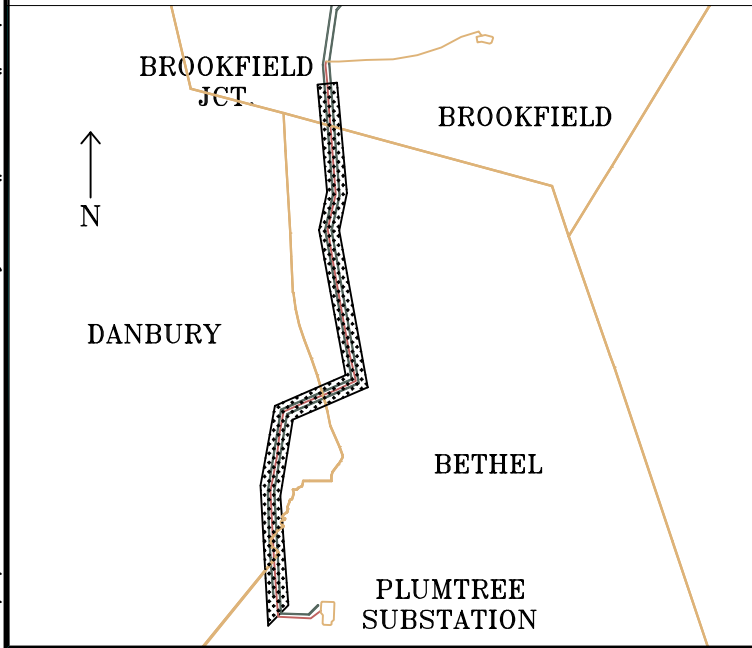


- NOTES:
1. THE EXISTING 1770 LINE WILL BE REDESIGNATED TO THE 1268 LINE, BETWEEN PLUMTREE SUBSTATION AND STONY HILL SUBSTATION.
 2. ALL VEGETATION MANAGEMENT LOCATIONS AND CLEARING REQUIREMENTS ARE APPROXIMATE.
 3. LIGHTNING ARRESTERS TO BE ADDED AS REQUIRED.

PLUMTREE SUBSTATION
TO
0.2 MILES OUT OF PLUMTREE SUBSTATION
(TO STRUCTURE 1003)
IN THE TOWN OF BETHEL
LOOKING WEST

EVERSOURCE ENERGY							
TITLE SWCT RELIABILITY PROJECT PLUMTREE-BROOKFIELD JCT. 115-kV TRANSMISSION LINE NEW ROW CROSS SECTIONS BETHEL/DANBURY/BROOKFIELD, CT.							
BY	KSC	CHKD	RLF	APP	GTD	APP	PE
DATE	05/2017	DATE	05/2017	DATE	05/2017	DATE	
H-SCALE	N.T.S.	SIZE	B	FIELD BOOK & PAGES			
V-SCALE	N.T.S.	V.S.		R.E. DWG			
R.E. PROJ. NUMBER				DWG NO. XS-1			

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0.2 TO 3.4 MILES OUT OF PLUMTREE SUBSTATION
(FROM STRUCTURE 1004)
TO
BROOKFIELD JUNCTION
IN THE MUNICIPALITIES OF
BETHEL, DANBURY, BROOKFIELD
LOOKING NORTH

NOTES:

1. THE EXISTING 1770 LINE WILL BE REDESIGNATED TO THE 1268 LINE, BETWEEN PLUMTREE SUBSTATION AND STONY HILL SUBSTATION.
2. ALL VEGETATION MANAGEMENT LOCATIONS AND CLEARING REQUIREMENTS ARE APPROXIMATE.
3. LIGHTNING ARRESTERS TO BE ADDED AS REQUIRED.

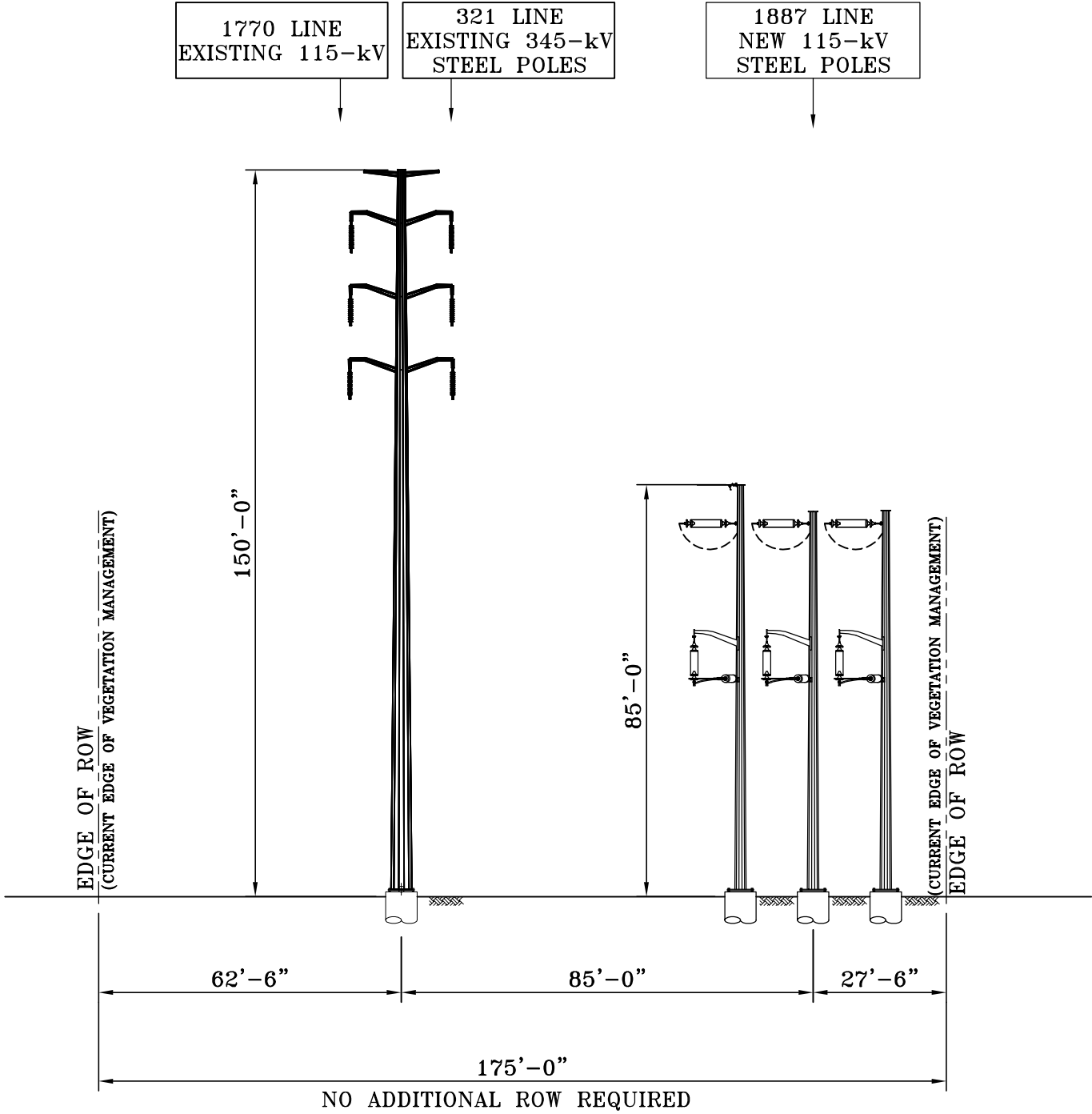
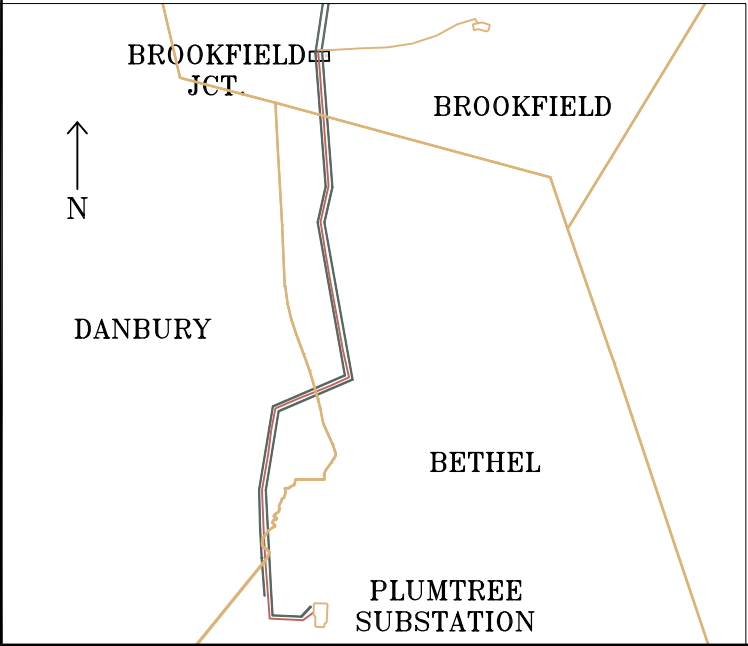
EVERSOURCE
ENERGY

TITLE SWCT RELIABILITY PROJECT
PLUMTREE-BROOKFIELD JCT. 115-kV TRANSMISSION LINE
NEW ROW CROSS SECTIONS
BETHEL/DANBURY/BROOKFIELD, CT.

BY	KSC	CHKD	RLF	APP	GTD	APP	PE
DATE	05/2017	DATE	05/2017	DATE	05/2017	DATE	
H-SCALE	N.T.S.	SIZE	B	FIELD BOOK & PAGES			
V-SCALE	N.T.S.	V.S.		R.E. DWG			
R.E. PROJ. NUMBER				DWG NO.			

XS-2

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3.4 MILES OUT OF PLUMTREE SUBSTATION
AT
BROOKFIELD JUNCTION
IN THE TOWN OF
BROOKFIELD
LOOKING NORTH

- NOTES:
1. THE EXISTING 1770 LINE WILL BE REDESIGNATED TO THE 1268 LINE, BETWEEN PLUMTREE SUBSTATION AND STONY HILL SUBSTATION.
 2. ALL VEGETATION MANAGEMENT LOCATIONS AND CLEARING REQUIREMENTS ARE APPROXIMATE.
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EVERSOURCE ENERGY							
TITLE SWCT RELIABILITY PROJECT PLUMTREE-BROOKFIELD JCT. 115-kV TRANSMISSION LINE NEW ROW CROSS SECTIONS BETHEL/DANBURY/BROOKFIELD, CT.							
BY	KSC	CHKD	RLF	APP	GTD	APP	PE
DATE	05/2017	DATE	05/2017	DATE	05/2017	DATE	
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V-SCALE	N.T.S.	V.S.		R.E. DWG			
R.E. PROJ. NUMBER				DWG NO. XS-3			

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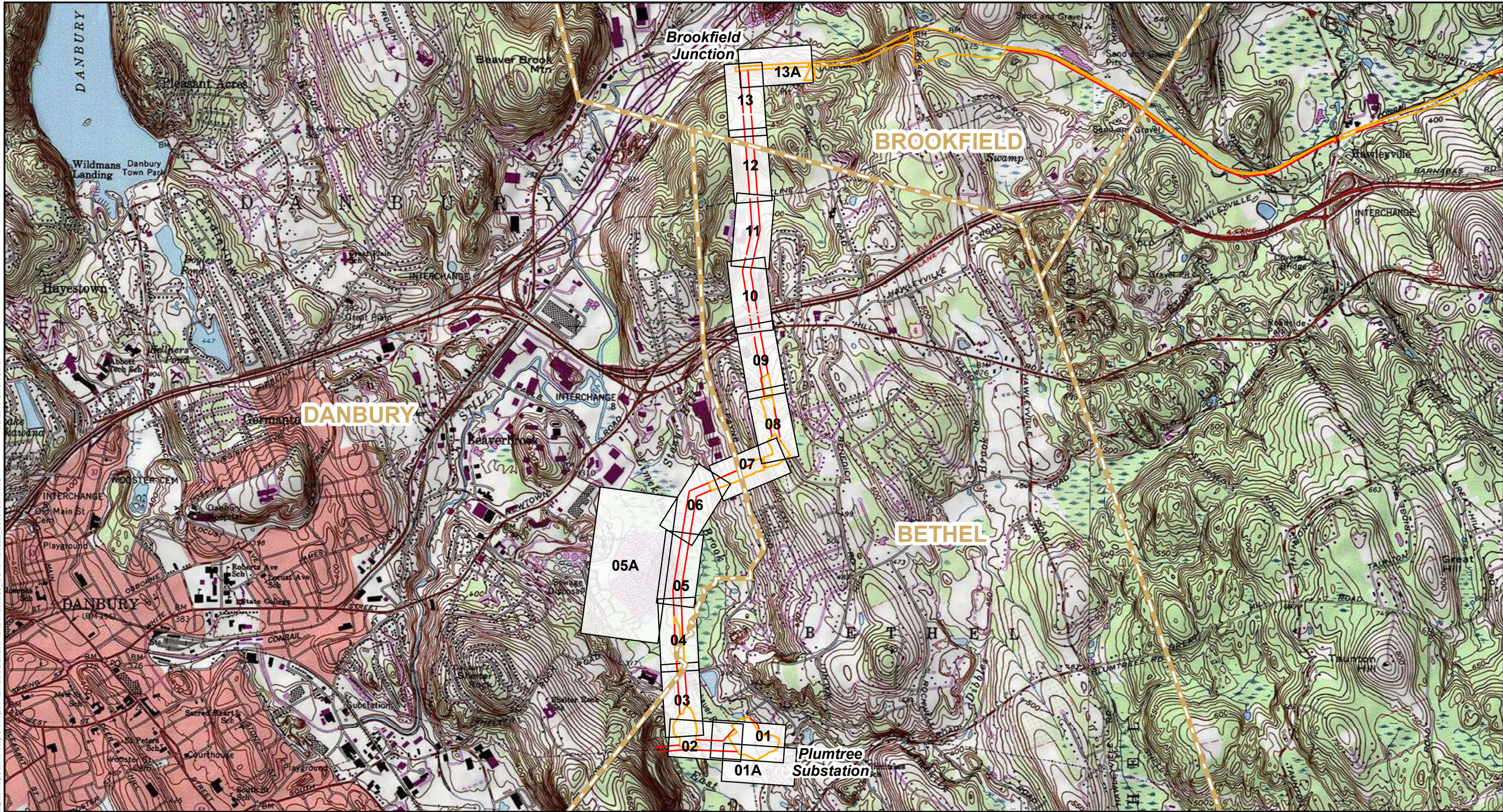
Mapsheet Index

Mapsheet #	Municipalities	Existing 321/1770 Line Structure #s	New 1887 Line Structure #s		Off- ROW Access**
			D&M Plan Designation	Engineering Designation*	
01A of 13	Bethel	----			<i>Walnut Hill Road to Plumtree Substation and Str. 1000 to 1006</i>
01 of 13	Bethel	Plumtree Substation, 10269	Plumtree Substation, 1000 to 1003	Plumtree Substation, 9420 to 9423	----
02 of 13	Bethel	10268 to 10267	1004 to 1005	9424 to 9425	----
03 of 13	Bethel, Danbury	10266 to 10265	1006 to 1007	9426 to 9427	<i>Shelter Rock Road to Str. 1007</i>
04 of 13	Bethel, Danbury	10264	1008	9428	----
05 of 13	Danbury	10263 to 10262	1009 to 1010	9429 to 9430	----
05A of 13	Danbury	----			<i>Plumtrees Road through Danbury Landfill to Structures 1008 to 1010</i>
06 of 13	Danbury	10261 to 10260	1011 to 1013	9431 to 9433	<i>Old Sherman Turnpike to Str. 1012 to 1013</i>
07 of 13	Danbury, Bethel	10259 to 10257	1014 to 1015	9434 to 9435	----
08 of 13	Bethel	10256	1016	9436	----
09 of 13	Bethel	10255 to 10254	1017 to 1018	9437 to 9438	<i>Stony Hill Road (US-6) through Target Parking Lot to Structure 1017</i>
010 of 13	Bethel	10253 to 10252	1019 to 1020	9439 to 9440	<i>Berkshire Boulevard to Structures 1019 and 1020 (separate routes)</i>
011 of 13	Bethel	10251	1021	9441	----
012 of 13	Bethel, Brookfield	10250 to 10249	1022 to 1023	9442 to 9443	----
013 of 13	Brookfield	10248 to 10246 Brookfield Junction	1024 to 1027 Brookfield Junction	9444 to 9447	<i>Park Ridge Road to Structures 1024 and 1025 to 1027 (separate routes)</i>
013A of 13	Brookfield	----			<i>Vale Road to Brookfield Junction, Structure 1027</i>

*Note structures will be renumbered following construction to the values in this column.
**Structures listed in this column refer to the D&M plan structures depicted on the mapping. Mapsheet #s designated with a letter (e.g. 05A or 13A) depict off-ROW access routes only and are emphasized in bold in this column.

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INDEX MAP

Legend

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

2,000 1,000 0 2,000 Feet
1:24,000

NO.	DATE	REVISIONS	BY	CHK	APP	APP

EVERSOURCE

Southwest Connecticut
Reliability Project
Index Map

Bethel, Danbury & Brookfield, CT

Date: December, 2016

Map Author: K. Gabriel

BSC GROUP

SWCT Reliability Project

Mapsheet 01A Notes

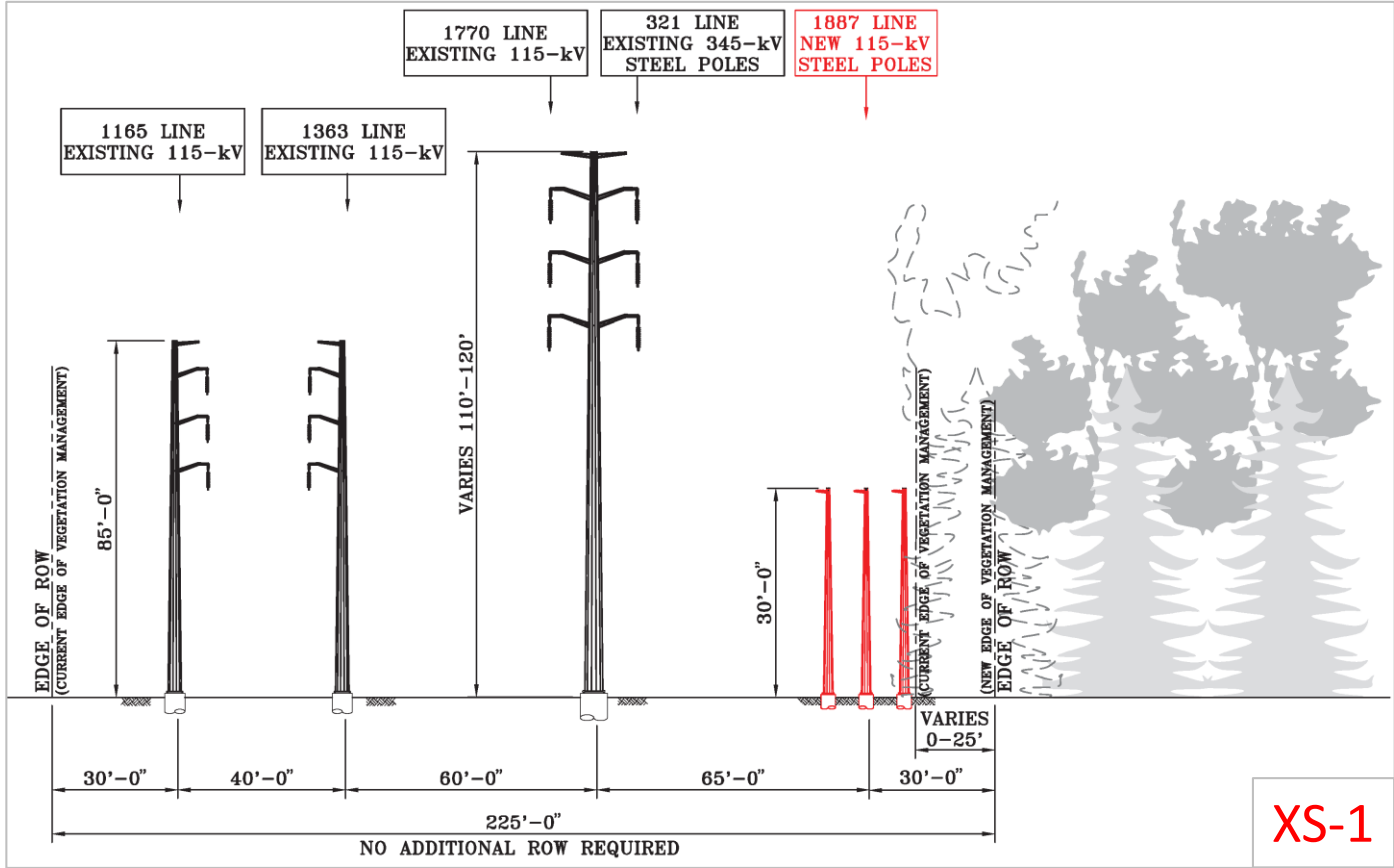
Line List	Owner Name	Site Address	Municipality	State
406	STATE OF CONNECTICUT	SHELTER ROCK ROAD	BETHEL	CT
407	HOEFFEL CHRISTOPHER K	24 WALNUT HILL ROAD	BETHEL	CT
408	VIBBERT JAMES & KAYANNE	18 WALNUT HILL ROAD	BETHEL	CT
409	HOEFFEL CHRISTOPHER K	24 WALNUT HILL ROAD	BETHEL	CT
410	SHEKARI DARIUS & LAUREN	26 WALNUT HILL ROAD	BETHEL	CT

GENERAL NOTES

NOTES BELOW PROVIDE A SUMMARY OF BMPS. REFER TO DETAIL SHEETS 2-5, D&M PLAN VOLUME 3, AND THE MAPSHEET SPECIFIC NOTES (BELOW) FOR ADDITIONAL INFORMATION. REFER TO DETAIL SHEETS 8 A&B FOR CROSS-SECTIONAL DEPICTIONS OF TYPICAL ACCESS ROADS, FILL IN FLOODPLAINS, AND (TEMPORARY) FILL MATERIAL IN RESIDENTIAL AREAS OR LAWNS.

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- ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH THE RELEVANT PORTIONS OF EVERSOURCE’S “BEST MANAGEMENT PRACTICES MANUAL FOR MASSACHUSETTS AND CONNECTICUT (SEPTEMBER 2016)” (BMP MANUAL), UNLESS MORE STRINGENT PROJECT-SPECIFIC MEASURES APPLY. ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF SITING APPROVALS FROM THE COUNCIL AND REGULATORY APPROVALS FROM THE U.S. ARMY CORPS OF ENGINEERS AND THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, AND WITH ALL PROJECT PROTOCOLS. REFER TO DETAIL SHEETS 2-5 AND D&M PLAN VOLUME 3.
- EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION, AS REQUIRED, TO COMPLY WITH THE PROVISIONS, AS APPLICABLE, OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, EVERSOURCE’S BMP MANUAL, AND REGULATORY APPROVALS.
- EXISTING CULVERTS WILL BE PROTECTED, AS DEEMED NECESSARY, TO PREVENT DAMAGE DURING CONSTRUCTION. INLET PROTECTION SHALL BE INSTALLED FOR ANY STORMWATER CATCH BASIN WITHIN THE WORK ZONE.
- ACCESS ROADS SHALL BE CONSTRUCTED AND CONFORM TO ADDITIONAL REQUIREMENTS AS INDICATED ON MAPPING WITHIN FLOODPLAINS, RESIDENTIAL AREAS, AND LAWNS (SEE DETAIL SHEET 8 A&B). ACCESS ROADS SHALL HAVE A MAXIMUM TRAVEL SURFACE OF 16 FEET IN WIDTH WITH SHOULDERS OF UP TO 2- FEET IN WIDTH, UNLESS INCREASED WIDTH IS REQUIRED FOR SAFE CONSTRUCTION, AS INDICATED ON THE MAPPING (E.G. TO ALLOW EQUIPMENT TURNING RADII AT CURVES IN ROADS OR AT THE INGRESS/EGRESS POINTS FROM A PUBLIC ROAD OR WORK AREA).
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- SPOILS RESULTING FROM CONSTRUCTION ACTIVITIES MAY BE SPREAD WITHIN THE LIMITS OF VEGETATION MANAGEMENT. SPOILS SHALL NOT BE PERMANENTLY SPREAD WITHIN EXISTING MAINTAINED YARDS/LAWNS OR SENSITIVE ENVIRONMENTAL RESOURCE AREAS. HOWEVER, TEMPORARY STOCKPILING OF SPOILS IS PERMISSIBLE PROVIDED SEDIMENT IS ADEQUATELY CONTAINED AND DISTURBED AREAS RESTORED TO PRE-EXISTING CONDITIONS.

SWCT Reliability Project
Mapsheet 01 Notes



SITE SPECIFIC NOTES

- A. REFER TO DETAIL SHEETS 2 A&B FOR WORK IN OR NEAR WETLANDS, WATERCOURSES, OR FLOODPLAINS. KEY BMPS ARE BRIEFLY INCLUDED BELOW.
- B. ALL ACCESS AND WORK PAD AREAS IN THE REGULATORY FLOODWAY SHALL USE ANCHORED TEMPORARY CONSTRUCTION MATS. WITHIN THE 100-YEAR FLOODPLAIN, GRAVEL ACCESS/WORK AREAS SHALL BE CONSTRUCTED AT OR BELOW THE EXISTING GRADE (SEE DETAIL SHEET B AS SPECIFIED FOR FLOODPLAINS). EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE OR SPREAD OUTSIDE OF THE 100-YEAR FLOODPLAIN AND WETLAND RESOURCE AREAS.
- C. NO OVERNIGHT PARKING OR STORAGE OF EQUIPMENT ALLOWED WITHIN THE 100-YEAR FLOODPLAIN OR REGULATORY FLOODWAY. NO REFUELING OR STORAGE OF FUELS OR HAZARDOUS MATERIALS IN THE FLOODPLAIN. EXCEPTIONS AND BMPS ALSO APPLY, SEE DETAIL SHEET 2 A&B.
- D. RARE SPECIES BMPS APPLY TO ALL AREAS DEPICTED ON THIS PAGE. CONTACT EVERSOURCE LICENSING AND PERMITTING FOR ADDITIONAL DETAILS AND SITE-SPECIFIC INFORMATION PRIOR TO INITIATION OF WORK IN THESE AREAS. BMPS AND TIMING RESTRICTIONS ARE DISCUSSED IN DETAIL SHEETS 3 AND 4, WHICH ALSO DEPICT GENERAL ARRANGEMENTS FOR MATTING IN WETLAND W1.
- E. ALL PROJECT CONSTRUCTION ACTIVITIES IN WETLANDS SHALL BE CONTAINED WITHIN THE LOCATION AND ALIGNMENT OF DEPICTED WORK PADS AND ACCESS ROADS. ALL ACCESS/WORK AREAS IN WETLANDS MUST USE TEMPORARY CONSTRUCTION MATTING. ACCESS OR WORK AREAS ACROSS ANY WATERCOURSES MUST SPAN THE FULL WIDTH OF ITS BANKS, TO THE EXTENT PRACTICABLE.
- F. IN WETLANDS, DEWATERING FLUIDS SHALL BE PUMPED INTO A FRAC TANK OR WATER TRUCK, OR AS SPECIFIED IN EVERSOURCE’S BMP MANUAL. DEWATERING FLUIDS SHALL BE HANDLED AS SPECIFIED IN EVERSOURCE’S BMP MANUAL.
- G. VEGETATION MANAGEMENT IN WETLANDS AND OTHER SENSITIVE AREAS SHALL FOLLOW LOW IMPACT TREE CLEARING METHODS DESCRIBED IN VOLUME 3 ATTACHMENT B. THIS MAY INCLUDE, WHERE PRACTICABLE, PRESERVING DESIRED SPECIES, LEAVING STUMPS AND ROOTS INTACT FOR SOIL STABILITY, AND SELECTIVELY REMOVING VEGETATION WITHIN 25-FT OF STREAM BANKS. ADDITIONAL BMPS ALSO APPLY FOR RARE SPECIES (SEE DETAIL SHEETS 3 AND 4).
- H. ALL PROJECT WETLANDS HAVE KNOWN POPULATIONS OF INVASIVE SPECIES, THEREFORE ADHERENCE TO THE WETLAND INVASIVE SPECIES CONTROL PLAN APPLIES FOR ALL MATTING AND EQUIPMENT IN WETLANDS.

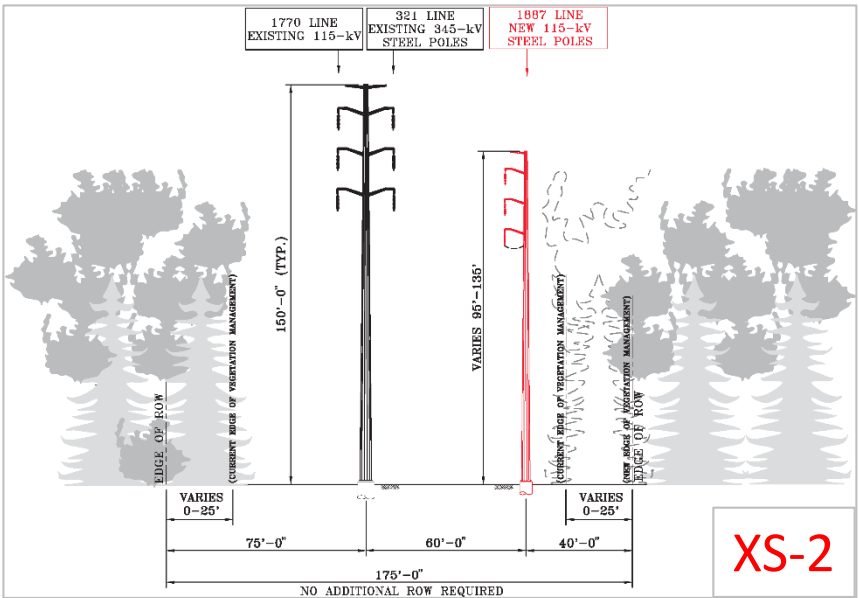
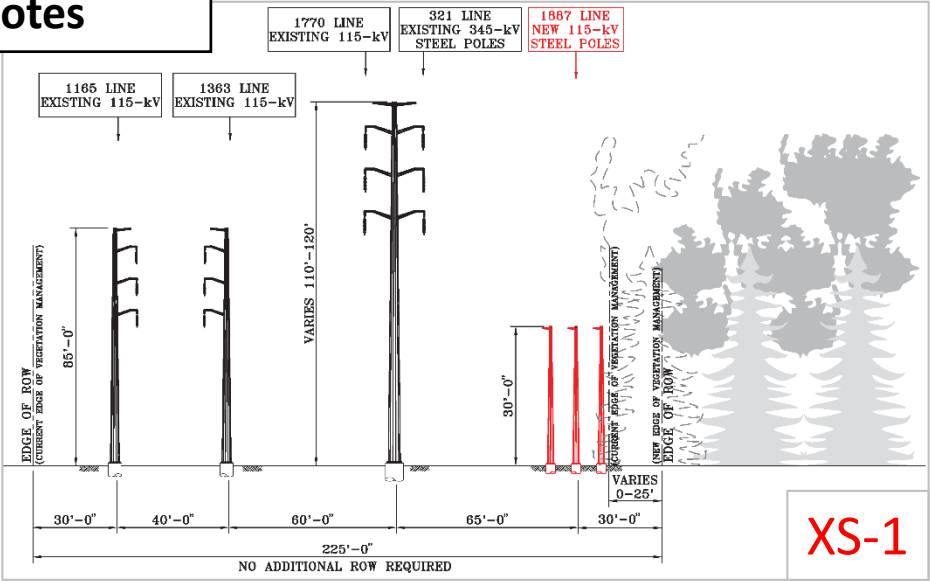
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Str #	X-SEC	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
1000	1	HORIZONTAL DEADEND	30	WEATHERING STEEL	DRILLED SHAFT
1001	1	HORIZONTAL DEADEND	30	WEATHERING STEEL	DRILLED SHAFT
1002	1	HORIZONTAL DEADEND	30	WEATHERING STEEL	DRILLED SHAFT
1003	1	HORIZONTAL DEADEND	40	WEATHERING STEEL	DRILLED SHAFT
Line List	Owner Name		Site Address	Municipality	State
402	BETHEL TOWN OF		SHELTER ROCK ROAD	BETHEL	CT
406	STATE OF CONNECTICUT		SHELTER ROCK ROAD	BETHEL	CT
407	HOEFFEL CHRISTOPHER K		24 WALNUT HILL ROAD	BETHEL	CT
408	VIBBERT JAMES & KAYANNE		18 WALNUT HILL ROAD	BETHEL	CT
409	HOEFFEL CHRISTOPHER K		24 WALNUT HILL ROAD	BETHEL	CT
410	SHEKARI DARIUS & LAUREN		26 WALNUT HILL ROAD	BETHEL	CT
411	MULLER BRUCE P & BETH L		28 WALNUT HILL ROAD	BETHEL	CT
412	WALTERS BRIAN C &MONICA ANN		32 WALNUT HILL ROAD	BETHEL	CT
413	HEGGLAND DIANE L		8 SHELTER ROCK ROAD	BETHEL	CT
414	BETHEL TOWN OF		14 SHELTER ROCK ROAD	BETHEL	CT

SWCT Reliability Project
Mapsheet 02 Notes



Str #	X-SEC	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
1000	1	HORIZONTAL DEADEND	30	WEATHERING STEEL	DRILLED SHAFT
1001	1	HORIZONTAL DEADEND	30	WEATHERING STEEL	DRILLED SHAFT
1002	1	HORIZONTAL DEADEND	30	WEATHERING STEEL	DRILLED SHAFT
1003	1	HORIZONTAL DEADEND	40	WEATHERING STEEL	DRILLED SHAFT
1004	2	VERTICAL TANGENT	84	WEATHERING STEEL	DRILLED SHAFT
1005	2	VERTICAL DEADEND	80	WEATHERING STEEL	DRILLED SHAFT
Line List	Owner Name		Site Address	Municipality	State
402	BETHEL TOWN OF		SHELTER ROCK ROAD	BETHEL	CT
403	LEXINGTON MEADOWS CONDOMINIUM ASSOC		SHELTER ROCK ROAD	BETHEL	CT
404	STATE OF CONNECTICUT		MAPLE AVENUE	BETHEL	CT
405	BETHEL LAND TRUST INC		SHELTER ROCK ROAD	BETHEL	CT
406	STATE OF CONNECTICUT		SHELTER ROCK ROAD	BETHEL	CT
407	HOEFFEL CHRISTOPHER K		24 WALNUT HILL ROAD	BETHEL	CT
409	HOEFFEL CHRISTOPHER K		24 WALNUT HILL ROAD	BETHEL	CT
414	BETHEL TOWN OF		14 SHELTER ROCK ROAD	BETHEL	CT

SITE SPECIFIC NOTES

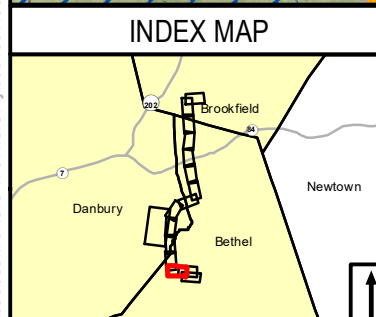
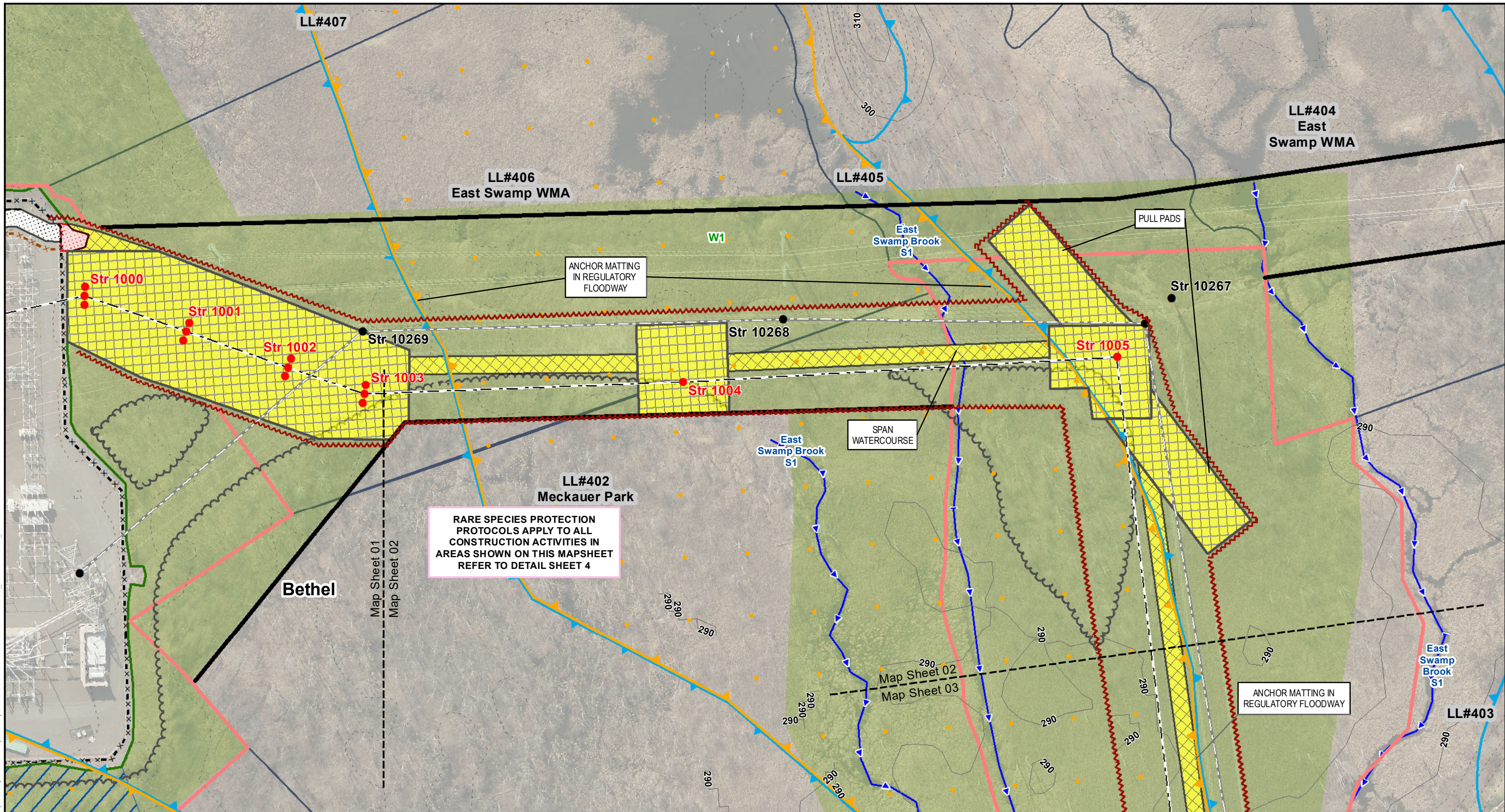
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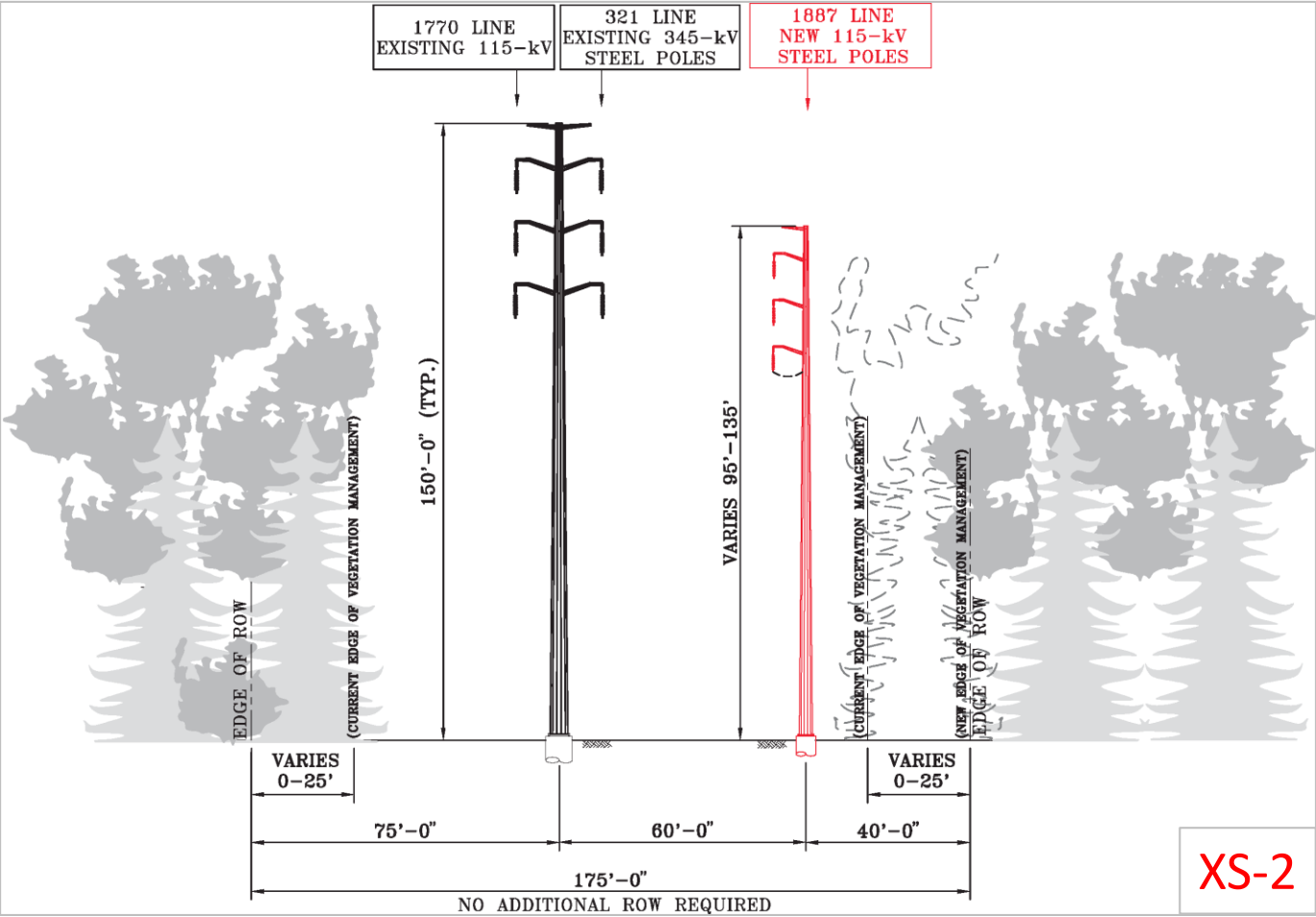
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- Proposed 115-kV Line (Centerline)
- Existing Transmission Line (Centerline)
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- 2' Contour Line
- Work Pads
- Existing Access Road
- Existing Alternate Access Road
- New Access Road
- New Temporary Access Road
- Construction Matting
- Temporary Wetland Impact
- Limit of Disturbance
- Existing Tree Line
- Vegetation Removal Limits
- Intermittent Stream Line
- Perennial Watercourse
- Ordinary High Water Mark
- Wetland Boundary
- Wetland Area
- CT Wetland Only
- Rare Species
- Regulatory Floodway Zone
- 100 Year Flood Zone
- Eversource Property
- Parcels
- Municipal Boundary
- LL#100 Line List Label
- Map Sheet Matchline
- Fenceline
- Temporary Fenceline

1 inch = 100 feet

EVERSOURCE						
Southwest Connecticut Reliability Project Development & Management Plan						
Bethel, CT				Map Sheet 02 of 13		
Date: June 2017				Map Author: K. Gabriel		
NO.	DATE	REVISIONS	BY	CHK	APP	APP

SWCT Reliability Project

Mapsheet 03 Notes



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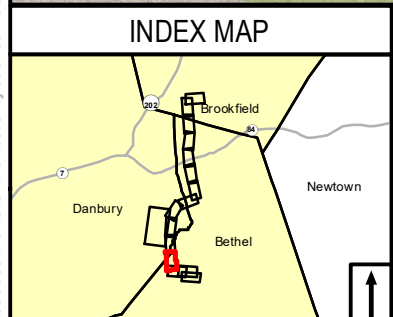
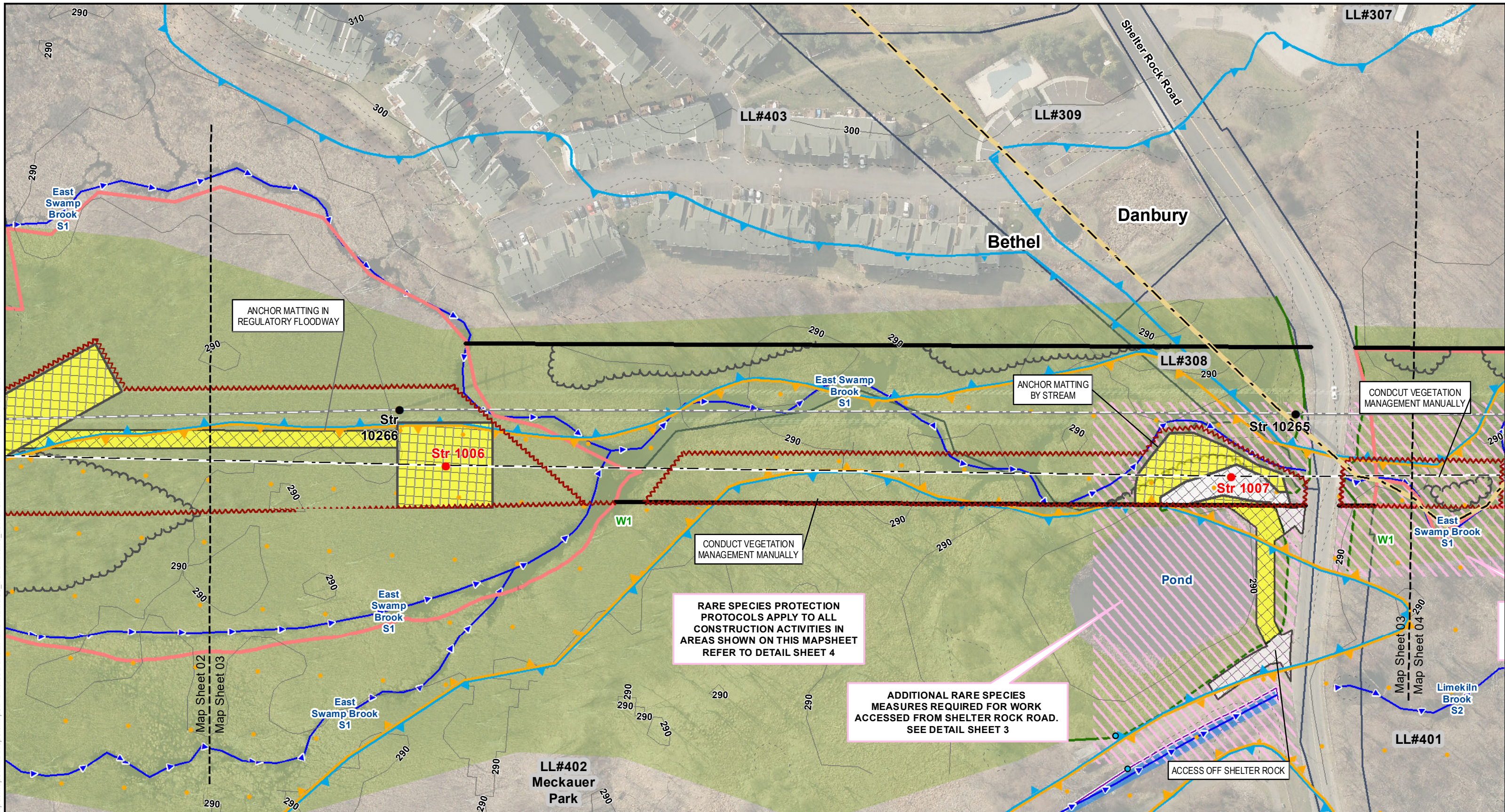
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Str #	X-SEC	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
1006	2	VERTICAL TANGENT	103	WEATHERING STEEL	DRILLED SHAFT
1007	2	VERTICAL TANGENT	103	WEATHERING STEEL	DRILLED SHAFT
Line List	Owner Name		Site Address	Municipality	State
307	LAZY CREEK MILLS LLC		25 PLUMTREES RD	DANBURY	CT
308	TOWN OF BETHEL		SHELTER ROCK RD	DANBURY	CT
309	LEXINGTON MEADOWS CONDOMINIUM ASSOCIATION C/O IMAGINEERS LLC		SHELTER ROCK RD	DANBURY	CT
401	BETHEL LAND TRUST INC		SHELTER ROCK ROAD	BETHEL	CT
402	BETHEL TOWN OF		SHELTER ROCK ROAD	BETHEL	CT
403	LEXINGTON MEADOWS CONDOMINIUM ASSOC		SHELTER ROCK ROAD	BETHEL	CT

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Legend

<ul style="list-style-type: none">Proposed 1887 Line StructureExisting StructureExisting Right-of-WayProposed 115-kV Line (Centerline)Existing Transmission Line (Centerline)10' Contour Line2' Contour Line	<ul style="list-style-type: none">Work PadsExisting Access RoadExisting Alternate Access RoadNew Access RoadNew Temporary Access RoadConstruction MattingTemporary Wetland ImpactLimit of Disturbance	<ul style="list-style-type: none">Existing Tree LineVegetation Removal LimitsIntermittent Stream LinePerennial WatercourseOrdinary High Water MarkWetland BoundaryWetland AreaCT Wetland Only	<ul style="list-style-type: none">Rare SpeciesRegulatory Floodway Zone100 Year Flood ZoneEversource PropertyParcelsMunicipal BoundaryLL#100 Line List Label	<ul style="list-style-type: none">Map Sheet MatchlineCulvert
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1 inch = 100 feet

0 100 200 Feet

EVERSOURCE

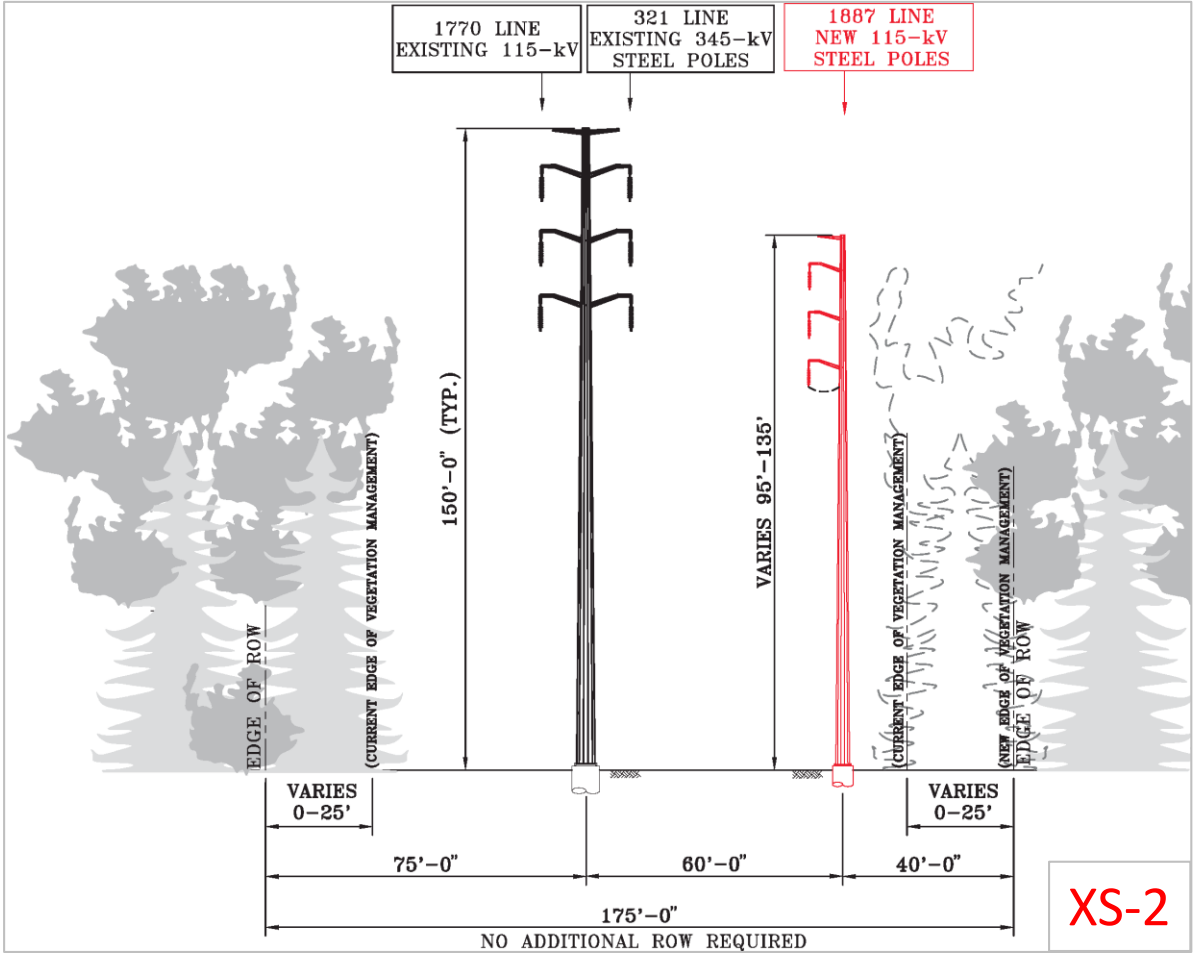
Southwest Connecticut Reliability Project Development & Management Plan

Bethel & Danbury, CT		Map Sheet 03 of 13	
Date: June 2017		Map Author: K. Gabriel	

BSC GROUP

NO.	DATE	REVISIONS	BY	CHK	APP	APP

SWCT Reliability Project
Mapsheet 04 Notes



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GENERAL NOTES

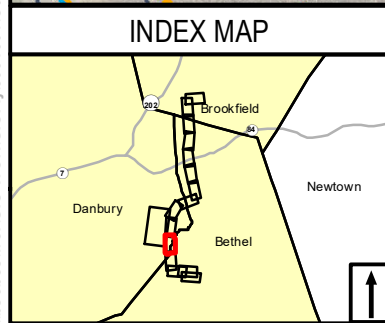
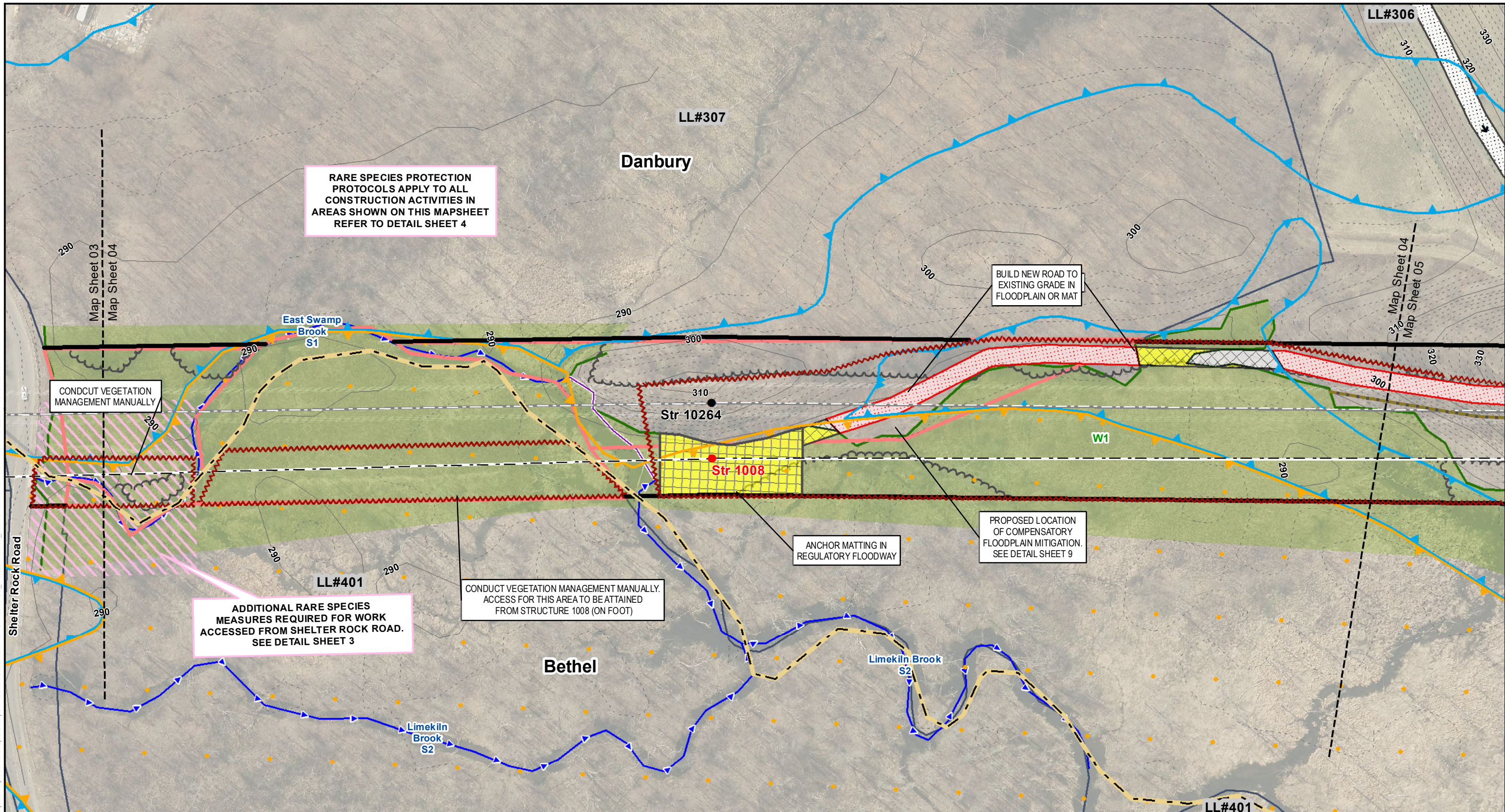
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1008	2	VERTICAL TANGENT	103	WEATHERING STEEL	DRILLED SHAFT	
Line List	Owner Name			Site Address	Municipality	State
306	CITY OF DANBURY LANDFILL			23 PLUMTREES RD	DANBURY	CT
307	LAZY CREEK MILLS LLC			25 PLUMTREES RD	DANBURY	CT
401	BETHEL LAND TRUST INC			SHELTER ROCK ROAD	BETHEL	CT

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Legend

- Proposed 1887 Line Structure
- Existing Structure
- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- 10' Contour Line
- 2' Contour Line
- Work Pads
- Existing Access Road
- Existing Alternate Access Road
- New Access Road
- New Temporary Access Road
- Construction Matting
- Temporary Wetland Impact
- Limit of Disturbance
- Existing Tree Line
- Vegetation Removal Limits
- Intermittent Stream Line
- Perennial Watercourse
- Ordinary High Water Mark
- Wetland Boundary
- Wetland Area
- CT Wetland Only
- Rare Species
- Regulatory Floodway Zone
- 100 Year Flood Zone
- Eversource Property
- Parcels
- Municipal Boundary
- LL#100 Line List Label
- Map Sheet Matchline

1 inch = 100 feet

EVERSOURCE
Southwest Connecticut
Reliability Project
Development & Management Plan

Bethel & Danbury, CT

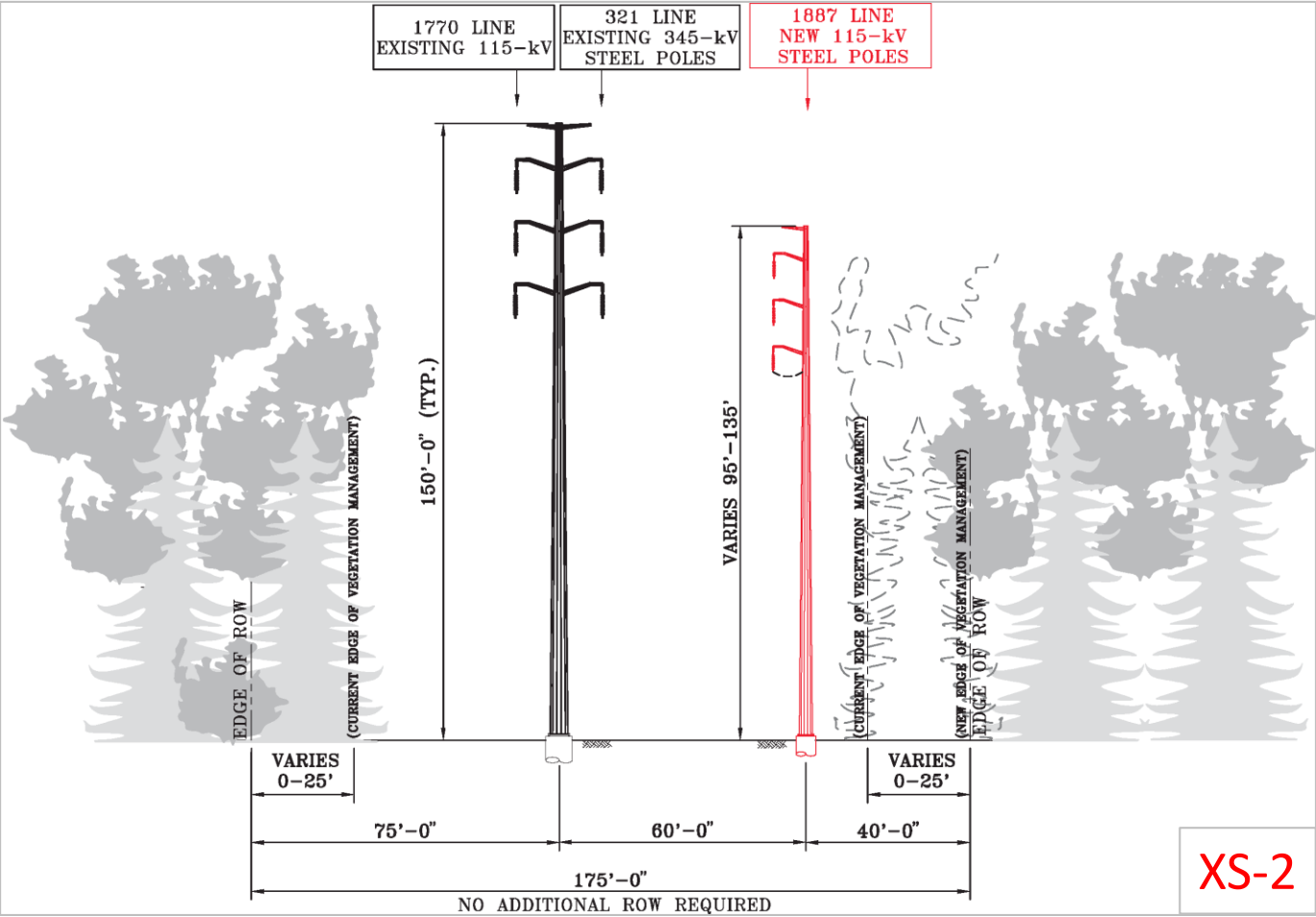
Date: June 2017

Map Sheet 04 of 13

Map Author: K. Gabriel

NO.	DATE	REVISIONS	BY	CHK	APP	APP

SWCT Reliability Project
Mapsheet 05 Notes



SITE SPECIFIC NOTES

- A. REFER TO DETAIL SHEETS 2 A&B FOR WORK IN OR NEAR WETLANDS, WATERCOURSES, OR FLOODPLAINS. KEY BMPS ARE BRIEFLY INCLUDED BELOW.
- B. ALL ACCESS AND WORK PAD AREAS IN THE REGULATORY FLOODWAY SHALL USE ANCHORED TEMPORARY CONSTRUCTION MATS. WITHIN THE 100-YEAR FLOODPLAIN, GRAVEL ACCESS/WORK AREAS SHALL BE CONSTRUCTED AT OR BELOW THE EXISTING GRADE (SEE DETAIL SHEET B AS SPECIFIED FOR FLOODPLAINS). EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE OR SPREAD OUTSIDE OF THE 100-YEAR FLOODPLAIN AND WETLAND RESOURCE AREAS.
- C. NO OVERNIGHT PARKING OR STORAGE OF EQUIPMENT ALLOWED WITHIN THE 100-YEAR FLOODPLAIN OR REGULATORY FLOODWAY. NO REFUELING OR STORAGE OF FUELS OR HAZARDOUS MATERIALS IN THE FLOODPLAIN. EXCEPTIONS AND BMPS ALSO APPLY, SEE DETAIL SHEET 2 A&B.
- D. RARE SPECIES BMPS APPLY TO ALL AREAS DEPICTED ON THIS PAGE. CONTACT EVERSOURCE LICENSING AND PERMITTING FOR ADDITIONAL DETAILS AND SITE-SPECIFIC INFORMATION PRIOR TO INITIATION OF WORK IN THESE AREAS. BMPS AND TIMING RESTRICTIONS ARE DISCUSSED IN DETAIL SHEETS 3 AND 4, WHICH ALSO DEPICT GENERAL ARRANGEMENTS FOR MATTING IN WETLAND W1.
- E. ALL PROJECT CONSTRUCTION ACTIVITIES IN WETLANDS SHALL BE CONTAINED WITHIN THE LOCATION AND ALIGNMENT OF DEPICTED WORK PADS AND ACCESS ROADS. ALL ACCESS/WORK AREAS IN WETLANDS MUST USE TEMPORARY CONSTRUCTION MATTING. ACCESS OR WORK AREAS ACROSS ANY WATERCOURSES MUST SPAN THE FULL WIDTH OF ITS BANKS, TO THE EXTENT PRACTICABLE.
- F. IN WETLANDS, DEWATERING FLUIDS SHALL BE PUMPED INTO A FRAC TANK OR WATER TRUCK, OR AS SPECIFIED IN EVERSOURCE’S BMP MANUAL. DEWATERING FLUIDS SHALL BE HANDLED AS SPECIFIED IN EVERSOURCE’S BMP MANUAL.
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- H. ALL PROJECT WETLANDS HAVE KNOWN POPULATIONS OF INVASIVE SPECIES, THEREFORE ADHERENCE TO THE WETLAND INVASIVE SPECIES CONTROL PLAN APPLIES FOR ALL MATTING AND EQUIPMENT IN WETLANDS.
- I. INSTALL CONSTRUCTION ENTRANCE TRACK PAD FOR ROADWAY PROTECTION AND EROSION AND SEDIMENT CONTROL. LINE TRACKING PAD WITH GEOTEXTILE FABRIC AND REMOVE TRACKING PAD AFTER CONSTRUCTION. MAINTAIN IF TRACKING PAD BECOMES CLOGGED WITH SOIL. ANY SEDIMENT TRACKED ONTO THE ROAD SURFACE SHALL BE SWEEPED CLEAN AT THE END OF EACH WORK DAY. REFER TO EVERSOURCE’S BMP MANUAL (2016) PAGE 3-8 AND 3-9 AND D&M PLAN DETAIL SHEET 5C.

GENERAL NOTES

NOTES BELOW PROVIDE A SUMMARY OF BMPS. REFER TO DETAIL SHEETS 2-5, D&M PLAN VOLUME 3, AND THE MAPSHEET SPECIFIC NOTES (BELOW) FOR ADDITIONAL INFORMATION. REFER TO DETAIL SHEETS 8 A&B FOR CROSS-SECTIONAL DEPICTIONS OF TYPICAL ACCESS ROADS, FILL IN FLOODPLAINS, AND (TEMPORARY) FILL MATERIAL IN RESIDENTIAL AREAS OR LAWNS.

1. THE LIMITS OF VEGETATION MANAGEMENT, AS SHOWN, DEFINE AREAS WHERE VEGETATION REMOVAL AND GRUBBING, GRADING, AND EXCAVATION MAY OCCUR. MINOR DEVIATIONS MAY BE REQUIRED IN SOME LOCATIONS. ADDITIONALLY, DANGER OR HAZARD TREE REMOVAL MAY BE REQUIRED OUTSIDE OF THE VEGETATION REMOVAL LIMITS. VEGETATION REMOVAL EQUIPMENT MAY OPERATE ANYWHERE WITHIN THE LIMITS OF VEGETATION MANAGEMENT IN UPLANDS. IN WETLANDS AND ACROSS WATER RESOURCES, TEMPORARY CLEARING ROUTES (CONSISTING OF TIMBER MATS OR EQUIVALENT) WOULD BE USED BY THE CLEARING CONTRACTOR ONLY (THESE ARE NOT DEPICTED ON THE MAPSHEETS AND WILL BE DETERMINED BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION). REFER TO DETAIL SHEETS 2 A&B FOR ADDITIONAL MEASURES IN WETLAND RESOURCE AREAS.
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3. EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION, AS REQUIRED, TO COMPLY WITH THE PROVISIONS, AS APPLICABLE, OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, EVERSOURCE’S BMP MANUAL, AND REGULATORY APPROVALS.
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7. PAVED SURFACES SHALL BE PROTECTED DURING CONSTRUCTION AS NECESSARY AND ANY DAMAGE TO SUCH SURFACES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. SAFETY SIGNAGE TO INDICATE CONSTRUCTION WORK ZONES SHALL BE INSTALLED ALONG PUBLIC ROADS AS NECESSARY AND AS REQUIRED THROUGH COORDINATION WITH STATE AND LOCAL ENTITIES.
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Str #	X-SEC	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
1009	2	VERTICAL RUNNING ANGLE	95	WEATHERING STEEL	DRILLED SHAFT
1010	2	VERTICAL TANGENT	98	WEATHERING STEEL	DRILLED SHAFT
Line List	Owner Name		Site Address	Municipality	State
304	FLORENCE IAPALUCCIO TRUSTEE OF MLNM TRUST		21-57 OLD SHERMAN TP	DANBURY	CT
306	CITY OF DANBURY LANDFILL		23 PLUMTREES RD	DANBURY	CT

SWCT Reliability Project

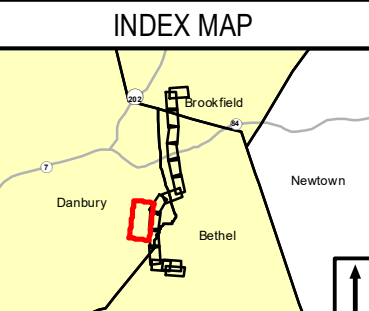
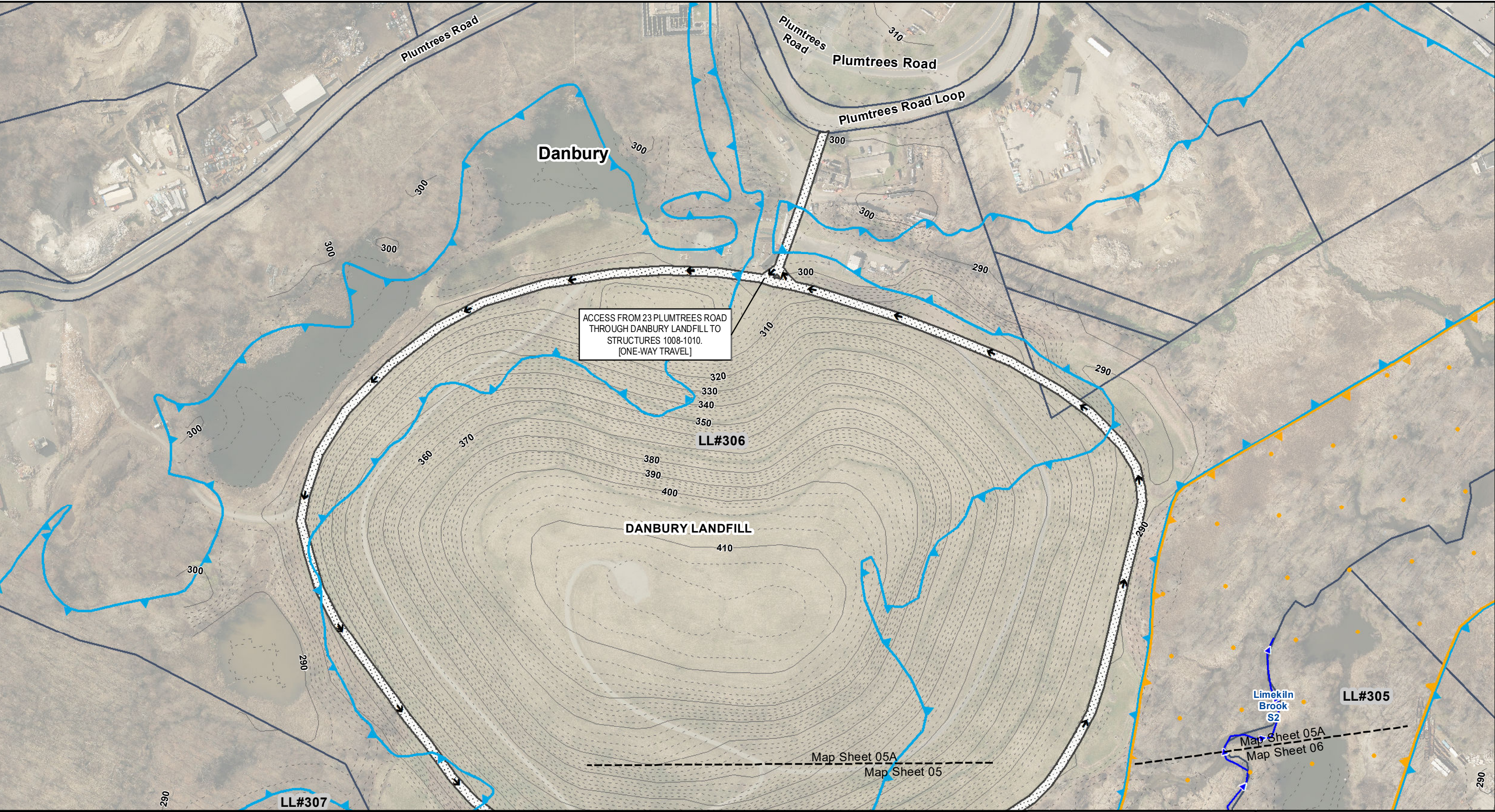
Mapsheet 05A Notes

Line List	Owner Name	Site Address	Municipality	State
305	KILCO LLC	OLD SHERMAN TP	DANBURY	CT
306	CITY OF DANBURY LANDFILL	23 PLUMTREES RD	DANBURY	CT
307	LAZY CREEK MILLS LLC	25 PLUMTREES RD	DANBURY	CT

GENERAL NOTES

- NOTES BELOW PROVIDE A SUMMARY OF BMPS. REFER TO DETAIL SHEETS 2-5, D&M PLAN VOLUME 3, AND THE MAPSHEET SPECIFIC NOTES (BELOW) FOR ADDITIONAL INFORMATION. REFER TO DETAIL SHEETS 8 A&B FOR CROSS-SECTIONAL DEPICTIONS OF TYPICAL ACCESS ROADS, FILL IN FLOODPLAINS, AND (TEMPORARY) FILL MATERIAL IN RESIDENTIAL AREAS OR LAWNS.
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Legend

<ul style="list-style-type: none"> Proposed 1887 Line Structure Existing Structure Existing Right-of-Way Proposed 115-kV Line (Centerline) Existing Transmission Line (Centerline) 10' Contour Line 2' Contour Line 	<ul style="list-style-type: none"> Work Pads Existing Access Road Existing Alternate Access Road New Access Road New Temporary Access Road Construction Matting Temporary Wetland Impact Limit of Disturbance 	<ul style="list-style-type: none"> Existing Tree Line Vegetation Removal Limits Intermittent Stream Line Perennial Watercourse Ordinary High Water Mark Wetland Boundary Wetland Area CT Wetland Only 	<ul style="list-style-type: none"> Rare Species Regulatory Floodway Zone 100 Year Flood Zone Eversource Property Parcels Municipal Boundary LL#100 Line List Label 	<ul style="list-style-type: none"> Map Sheet Matchline
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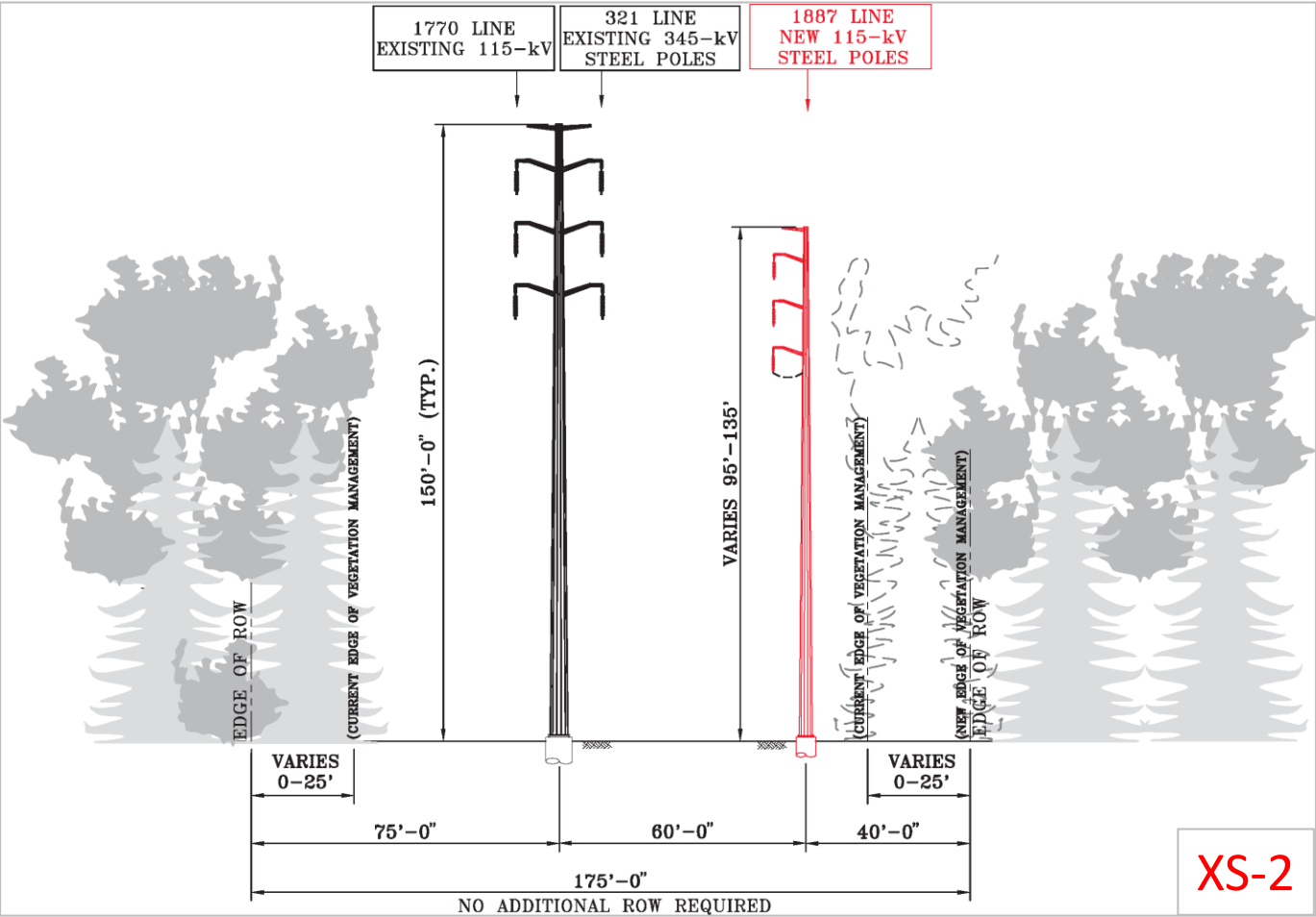
1 inch = 200 feet

0 200 400 Feet

<p>EVERSOURCE</p> <p>Southwest Connecticut Reliability Project Development & Management Plan</p>					
<p>Danbury, CT</p>			<p>Map Sheet 05A of 13</p>		
<p>Date: June 2017</p>			<p>Map Author: K. Gabriel</p>		
<p>BSC GROUP</p>					

NO.	DATE	REVISIONS	BY	CHK	APP	APP

SWCT Reliability Project
Mapsheet 06 Notes



Str #	X-SEC	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
1011	2	VERTICAL TANGENT	98	WEATHERING STEEL	DRILLED SHAFT
1012	2	VERTICAL DEADEND	95	WEATHERING STEEL	DRILLED SHAFT
1013	2	VERTICAL TANGENT	103	WEATHERING STEEL	DIRECT EMBED
Line List	Owner Name		Site Address	Municipality	State
301	R S A CORP		36-40 OLD SHERMAN TP	DANBURY	CT
302	86 PAYNE ROAD LLC C/O HOCON GAS		84-86 PAYNE RD	DANBURY	CT
303	LOSTOCCO DEVELOPMENT LLC		50-58 PAYNE RD	DANBURY	CT
304	FLORENCE IAPALUCCIO TRUSTEE OF MLNM TRUST		21-57 OLD SHERMAN TP	DANBURY	CT
305	KILCO LLC		OLD SHERMAN TP	DANBURY	CT
306	CITY OF DANBURY LANDFILL		23 PLUMTREES RD	DANBURY	CT

SITE SPECIFIC NOTES

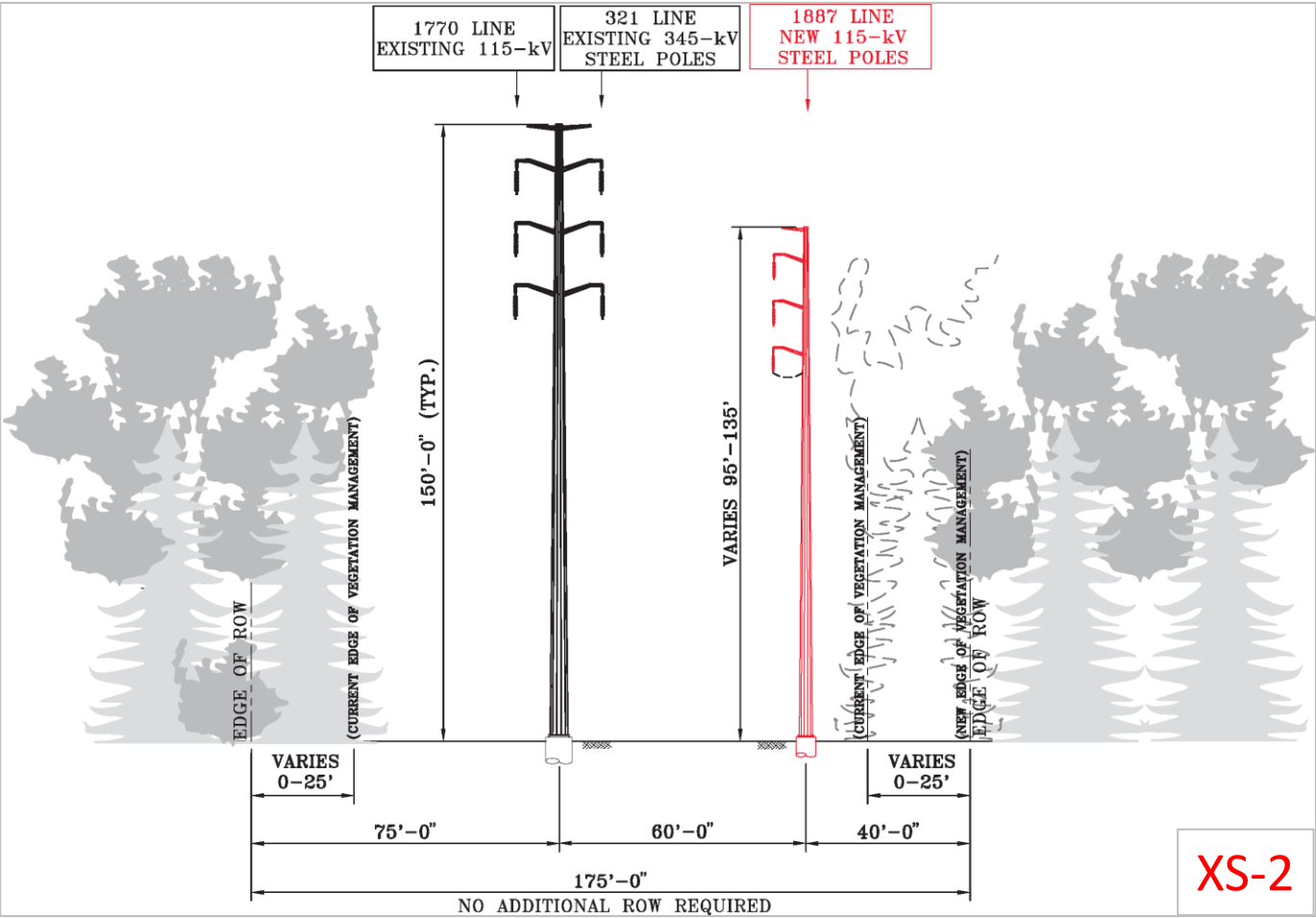
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SWCT Reliability Project
Mapsheet 07 Notes



SITE SPECIFIC NOTES

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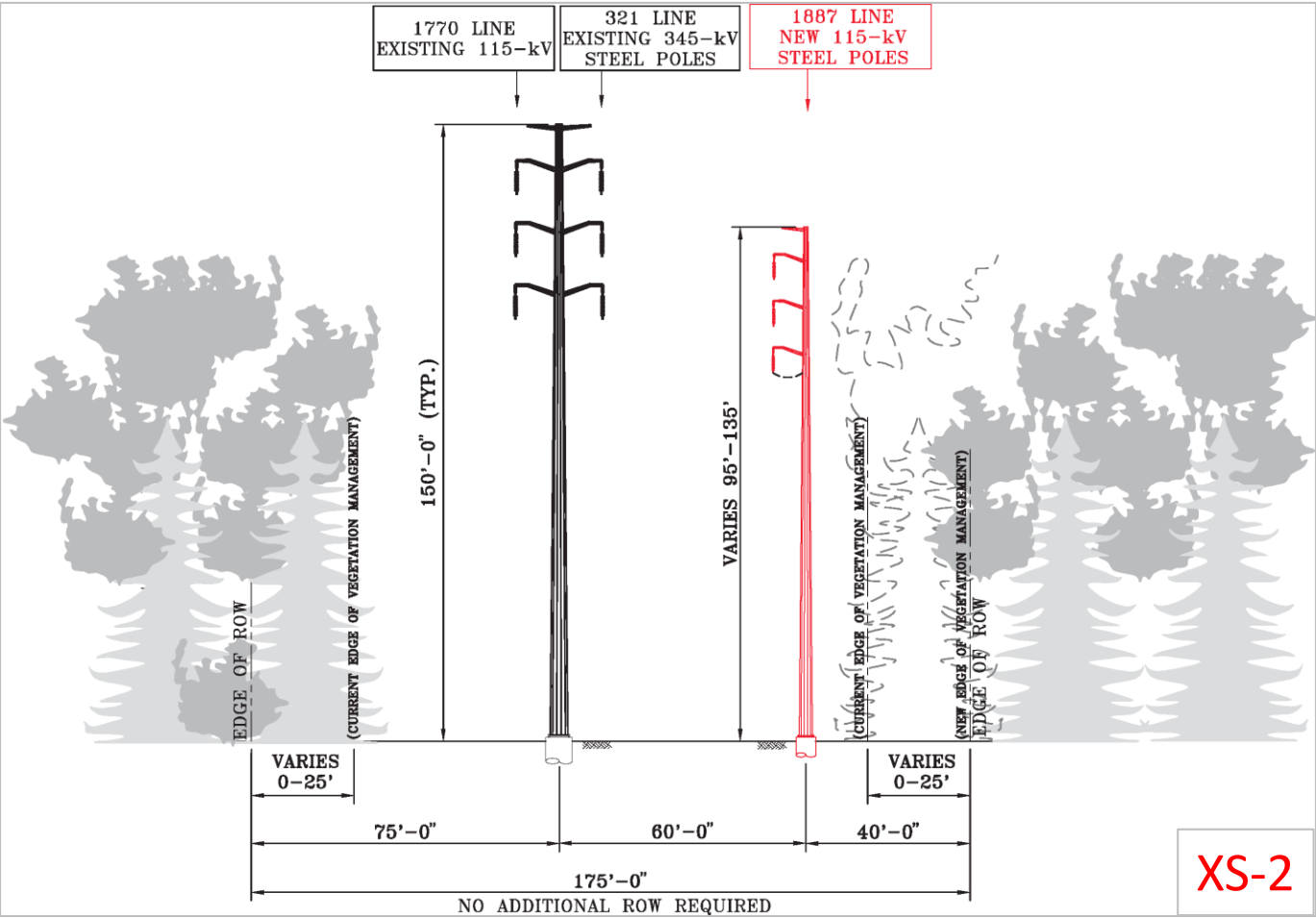
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- 3. EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION, AS REQUIRED, TO COMPLY WITH THE PROVISIONS, AS APPLICABLE, OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, EVERSOURCE’S BMP MANUAL, AND REGULATORY APPROVALS.
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Str #	X-SEC	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
1013	2	VERTICAL TANGENT	103	WEATHERING STEEL	DIRECT EMBED
1014	2	VERTICAL TANGENT	103	WEATHERING STEEL	DIRECT EMBED
1015	2	VERTICAL DEADEND	135	WEATHERING STEEL	DRILLED SHAFT
Line List	Owner Name		Site Address	Municipality	State
231	SEIB ROY F & OWEN-SEIB DOREEN		12 HEARTHSTONE DRIVE	BETHEL	CT
232	KOKE ROLAND T & DEBRA A		14 HEARTHSTONE DRIVE	BETHEL	CT
233	APELLANIZ FRANCIS A & JUNE MARIE		16 HEARTHSTONE DRIVE	BETHEL	CT
234	GARLAND RITA M		21 CHIMNEY DRIVE	BETHEL	CT
235	BARLOW LUCAS J & ERIN K		22 HEARTHSTONE DRIVE	BETHEL	CT
236	SORBELLO SHAWN D & JILL M		27 HEARTHSTONE DRIVE	BETHEL	CT
237	SENNELLO WILLIAM JR		71 PAYNE ROAD	BETHEL	CT
238	SECOR ROBERT C & BRIDGET P		21 HEARTHSTONE DRIVE	BETHEL	CT
239	GARCIA CLAUDIA V		77 PAYNE ROAD	BETHEL	CT
301	R S A CORP		36-40 OLD SHERMAN TP	DANBURY	CT
302	86 PAYNE ROAD LLC C/O HOCON GAS		84-86 PAYNE RD	DANBURY	CT

SWCT Reliability Project
Mapsheet 08 Notes



SITE SPECIFIC NOTES

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- B. NO ACCESS IN WETLANDS DEPICTED ON THIS PAGE EXCEPT AS NECESSARY FOR VEGETATION MANAGEMENT. ALL ACCESS IN WETLANDS MUST USE TEMPORARY CONSTRUCTION MATTING. NO ACCESS ACROSS STREAM 5 DEPICTED ON THIS PAGE.
- C. VEGETATION MANAGEMENT IN WETLANDS AND OTHER SENSITIVE AREAS SHALL FOLLOW LOW IMPACT TREE CLEARING METHODS DESCRIBED IN VOLUME 3 ATTACHMENT B. THIS MAY INCLUDE, WHERE PRACTICABLE, PRESERVING DESIRED SPECIES, LEAVING STUMPS AND ROOTS INTACT FOR SOIL STABILITY, AND SELECTIVELY REMOVING VEGETATION WITHIN 25-FT OF STREAM BANKS.
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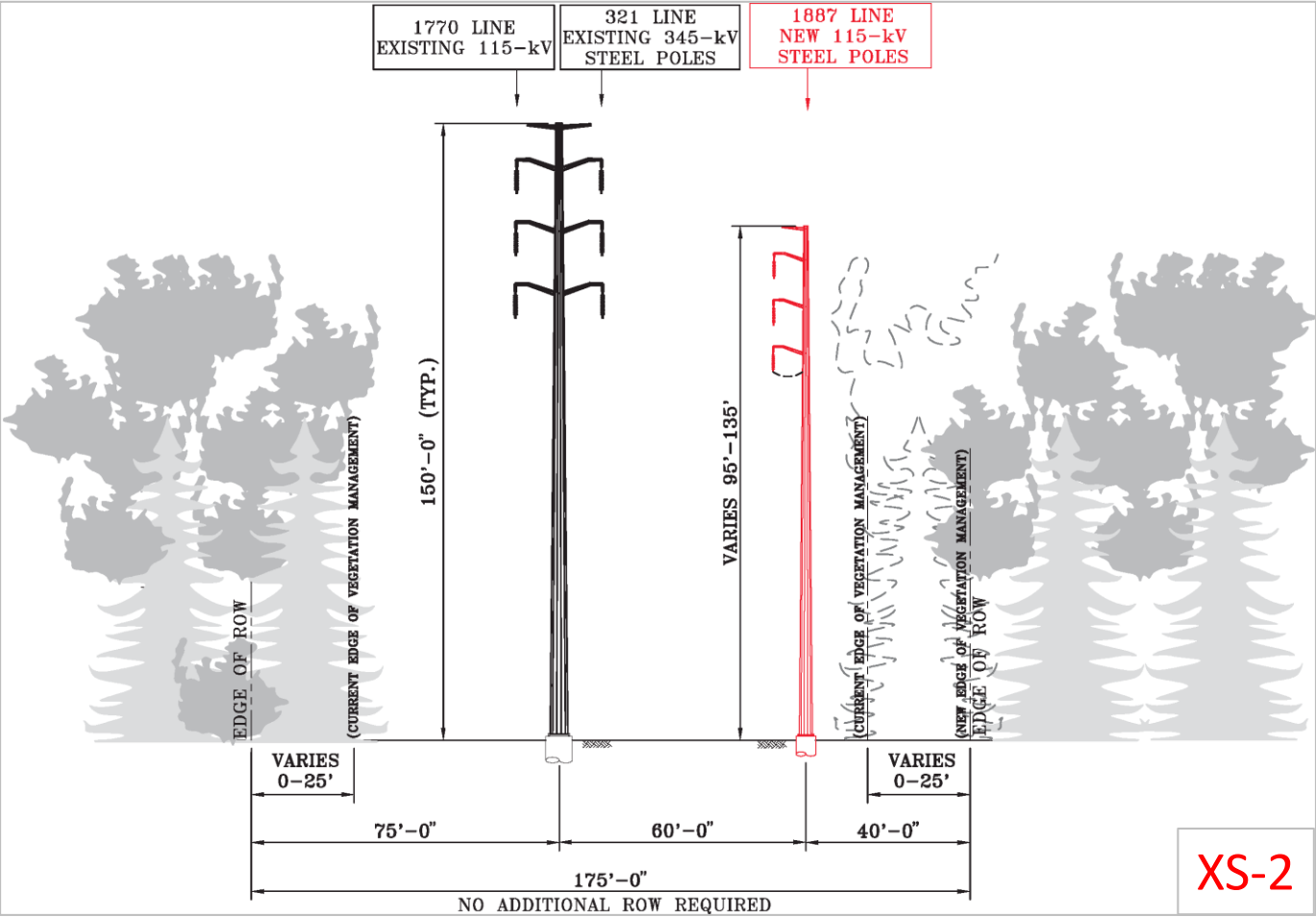
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Line List	Owner Name		Site Address	Municipality	State
222	BETHEL LAND TRUST		SKY EDGE LANE	BETHEL	CT
223	DYER GAIL A		6 SKY EDGE LANE	BETHEL	CT
224	LUHRS JOHN H & ANITA M		7 SKY EDGE LANE	BETHEL	CT
225	BRADLEY JOAN GREG		66 RIDGEDALE ROAD	BETHEL	CT
226	BETHEL TOWN OF		CHIMNEY DRIVE	BETHEL	CT
227	GARCIA JUAN C & LISA J		12 CHIMNEY DRIVE	BETHEL	CT
228	BURGESS KENNETH C & PATRICIA M		14 CHIMNEY DRIVE	BETHEL	CT
229	REYES LUIS M & GENEROSA J		7 CHIMNEY DRIVE	BETHEL	CT
230	ROBINSON JASON P & ELIZABETH		9 CHIMNEY DRIVE	BETHEL	CT
231	SEIB ROY F & OWEN-SEIB DOREEN		12 HEARTHSTONE DRIVE	BETHEL	CT
232	KOKE ROLAND T & DEBRA A		14 HEARTHSTONE DRIVE	BETHEL	CT
233	APELLANIZ FRANCIS A & JUNE MARIE		16 HEARTHSTONE DRIVE	BETHEL	CT
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SWCT Reliability Project
Mapsheet 09 Notes



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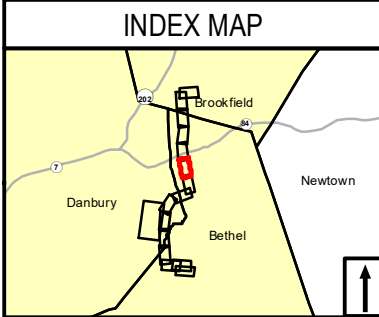
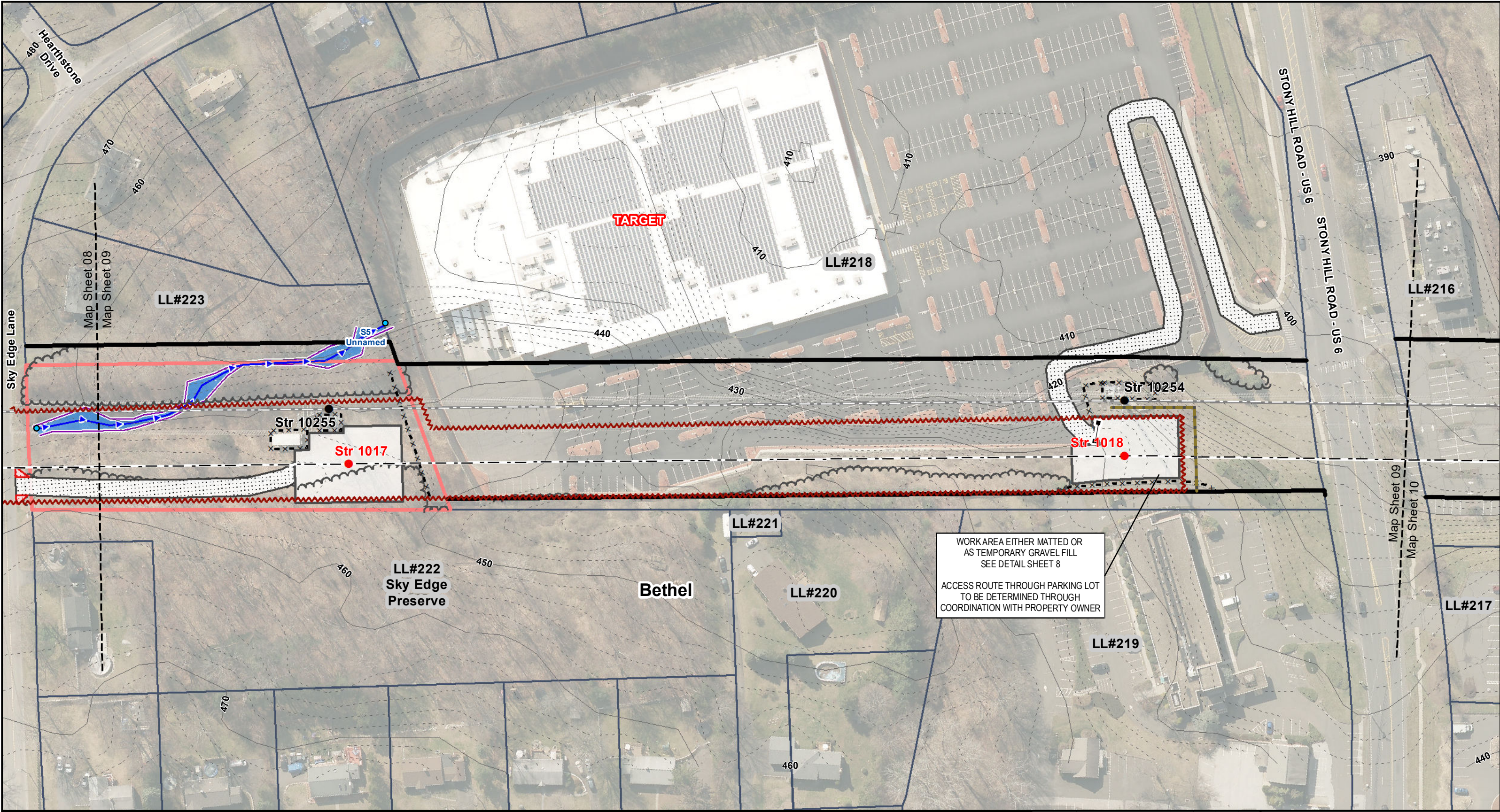
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Str #	X-SEC	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
1017	2	VERTICAL TANGENT	120	WEATHERING STEEL	DIRECT EMBED
1018	2	VERTICAL TANGENT	103	WEATHERING STEEL	DIRECT EMBED
Line List	Owner Name		Site Address	Municipality	State
216	TWO STONY HILL ROAD LLC		2 STONY HILL ROAD	BETHEL	CT
217	FOUR STONY HILL ROAD LLC		4 STONY HILL ROAD	BETHEL	CT
218	TARGET CORPORATION		7 STONY HILL ROAD	BETHEL	CT
219	BETHEL HOTEL LLC		11 STONY HILL ROAD	BETHEL	CT
220	DENNIS BARRY		12 WESTVIEW DRIVE	BETHEL	CT
221	DENNIS BARRY		STONY HILL ROAD	BETHEL	CT
222	BETHEL LAND TRUST		SKY EDGE LANE	BETHEL	CT
223	DYER GAIL A		6 SKY EDGE LANE	BETHEL	CT


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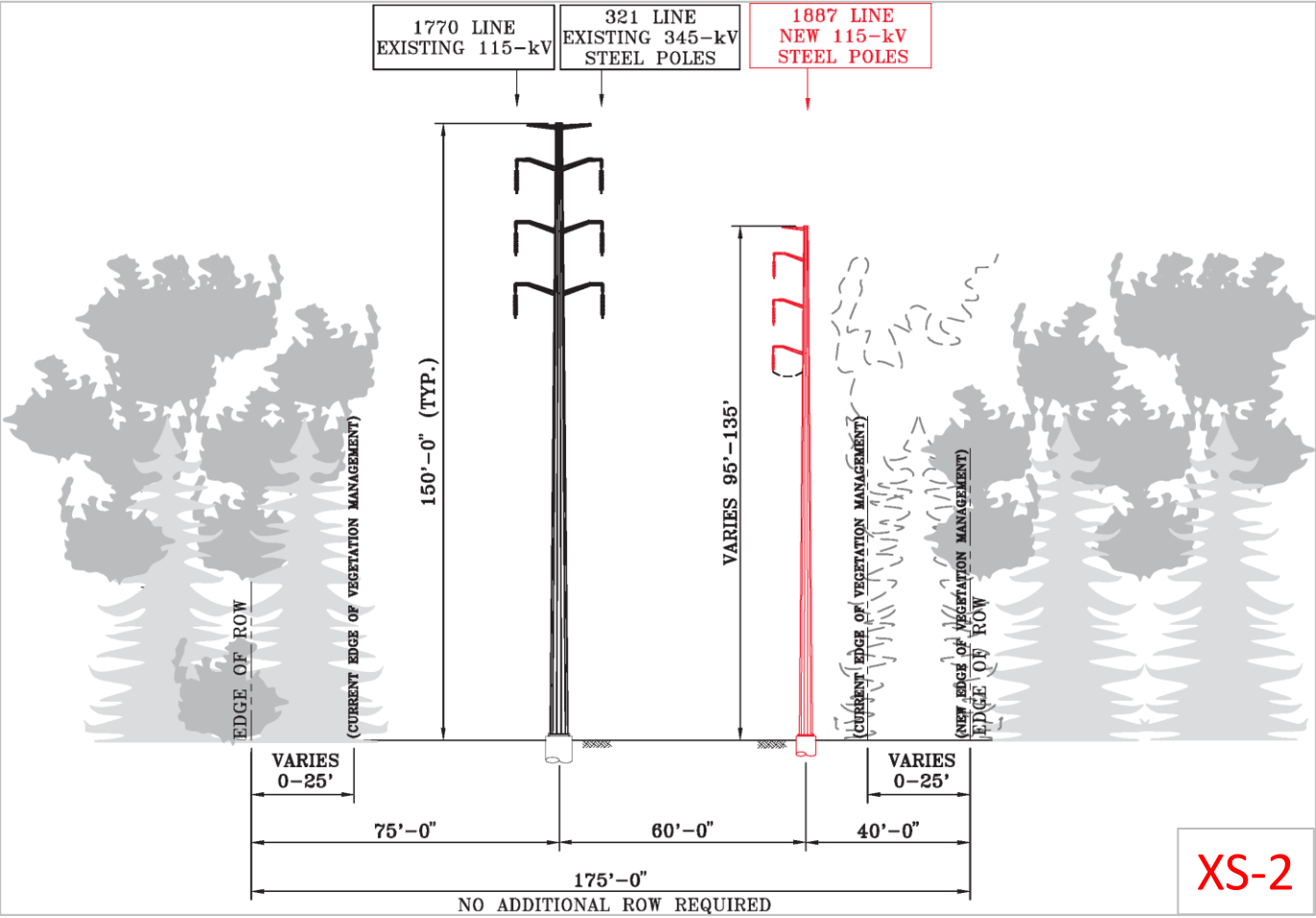
Legend

- Proposed 1887 Line Structure
- Existing Structure
- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- 10' Contour Line
- 2' Contour Line
- Gate
- Work Pads
- Existing Access Road
- Existing Alternate Access Road
- New Access Road
- New Temporary Access Road
- Construction Matting
- Temporary Wetland Impact
- Limit of Disturbance
- Existing Tree Line
- Vegetation Removal Limits
- Intermittent Stream Line
- Perennial Watercourse
- Ordinary High Water Mark
- Wetland Boundary
- Wetland Area
- CT Wetland Only
- Rare Species
- Regulatory Floodway Zone
- 100 Year Flood Zone
- Eversource Property
- Parcels
- Municipal Boundary
- LL#100 Line List Label
- Map Sheet Matchline
- Culvert
- Fenceline

1 inch = 100 feet

								EVERSOURCE					
								Southwest Connecticut Reliability Project Development & Management Plan					
								Bethel, CT		Map Sheet 09 of 13			
								Date: June 2017		Map Author: K. Gabriel			
													
NO.	DATE	REVISIONS				BY	CHK	APP	APP				

SWCT Reliability Project
Mapsheet 10 Notes



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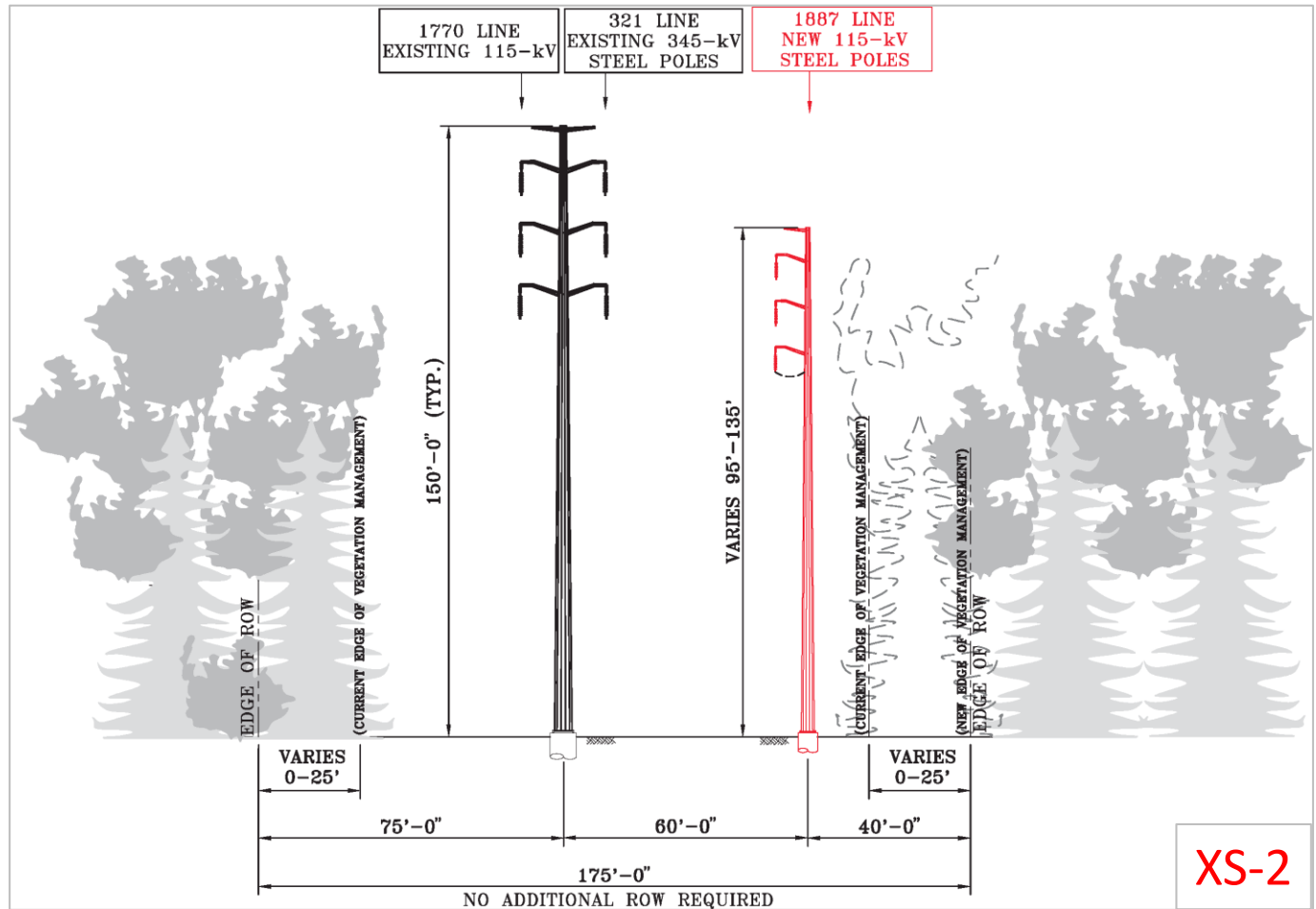
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- 2. ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH THE RELEVANT PORTIONS OF EVERSOURCE'S "BEST MANAGEMENT PRACTICES MANUAL FOR MASSACHUSETTS AND CONNECTICUT (SEPTEMBER 2016)" (BMP MANUAL), UNLESS MORE STRINGENT PROJECT-SPECIFIC MEASURES APPLY. ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF SITING APPROVALS FROM THE COUNCIL AND REGULATORY APPROVALS FROM THE U.S. ARMY CORPS OF ENGINEERS AND THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, AND WITH ALL PROJECT PROTOCOLS. REFER TO DETAIL SHEETS 2-5 AND D&M PLAN VOLUME 3.
- 3. EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION, AS REQUIRED, TO COMPLY WITH THE PROVISIONS, AS APPLICABLE, OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, EVERSOURCE'S BMP MANUAL, AND REGULATORY APPROVALS.
- 4. EXISTING CULVERTS WILL BE PROTECTED, AS DEEMED NECESSARY, TO PREVENT DAMAGE DURING CONSTRUCTION. INLET PROTECTION SHALL BE INSTALLED FOR ANY STORMWATER CATCH BASIN WITHIN THE WORK ZONE.
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- 6. THE LIMIT OF DISTURBANCE DEPICTED ON THE MAPPING REFLECTS AREAS WHERE GRADING MAY BE NECESSARY DUE TO SITE CONSTRAINTS SUCH AS STEEP TOPOGRAPHY.
- 7. PAVED SURFACES SHALL BE PROTECTED DURING CONSTRUCTION AS NECESSARY AND ANY DAMAGE TO SUCH SURFACES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. SAFETY SIGNAGE TO INDICATE CONSTRUCTION WORK ZONES SHALL BE INSTALLED ALONG PUBLIC ROADS AS NECESSARY AND AS REQUIRED THROUGH COORDINATION WITH STATE AND LOCAL ENTITIES.
- 8. SPOILS RESULTING FROM CONSTRUCTION ACTIVITIES MAY BE SPREAD WITHIN THE LIMITS OF VEGETATION MANAGEMENT. SPOILS SHALL NOT BE PERMANENTLY SPREAD WITHIN EXISTING MAINTAINED YARDS/LAWNS OR SENSITIVE ENVIRONMENTAL RESOURCE AREAS. HOWEVER, TEMPORARY STOCKPILING OF SPOILS IS PERMISSIBLE PROVIDED SEDIMENT IS ADEQUATELY CONTAINED AND DISTURBED AREAS RESTORED TO PRE-EXISTING CONDITIONS.

Str #	X-SEC	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
1019	2	VERTICAL TANGENT	103	WEATHERING STEEL	DIRECT EMBED
1020	2	VERTICAL RUNNING ANGLE	120	WEATHERING STEEL	DRILLED SHAFT
Line List	Owner Name		Site Address	Municipality	State
211	BERKSHIRE WEST LLC		1 BERKSHIRE BOULEVARD	BETHEL	CT
212	BERKSHIRE INDUSTRIAL CORP		8 BERKSHIRE BOULEVARD	BETHEL	CT
213	BERKSHIRE INDUSTRIAL CORP		16 BERKSHIRE BOULEVARD	BETHEL	CT
214	BERKSHIRE INDUSTRIAL CONDOMINIUM				
215	ABILITY BEYOND DISABILITY, INC				
216	TWO STONY HILL ROAD LLC		2 STONY HILL ROAD	BETHEL	CT
217	FOUR STONY HILL ROAD LLC		4 STONY HILL ROAD	BETHEL	CT
218	TARGET CORPORATION		7 STONY HILL ROAD	BETHEL	CT
219	BETHEL HOTEL LLC		11 STONY HILL ROAD	BETHEL	CT

SWCT Reliability Project Mapsheets 11 Notes



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- B. NO ACCESS IN WETLANDS DEPICTED ON THIS PAGE EXCEPT AS NECESSARY FOR VEGETATION MANAGEMENT. ALL ACCESS IN WETLANDS MUST USE TEMPORARY CONSTRUCTION MATTING. ACCESS OR WORK AREAS ACROSS ANY WATERCOURSES MUST SPAN THE FULL WIDTH OF ITS BANKS, TO THE EXTENT PRACTICABLE.
- C. VEGETATION MANAGEMENT IN WETLANDS AND OTHER SENSITIVE AREAS SHALL FOLLOW LOW IMPACT TREE CLEARING METHODS DESCRIBED IN VOLUME 3 ATTACHMENT B. THIS MAY INCLUDE, WHERE PRACTICABLE, PRESERVING DESIRED SPECIES, LEAVING STUMPS AND ROOTS INTACT FOR SOIL STABILITY, AND SELECTIVELY REMOVING VEGETATION WITHIN 25-FT OF STREAM BANKS.
- D. ALL PROJECT WETLANDS HAVE KNOWN POPULATIONS OF INVASIVE SPECIES, THEREFORE ADHERENCE TO THE WETLAND INVASIVE SPECIES CONTROL PLAN APPLIES FOR ALL MATTING AND EQUIPMENT IN WETLANDS.
- E. TEMPORARY ACCESS ROADS AND ASSOCIATED WORK PADS/PULL PADS WILL BE CONSTRUCTED AND RESTORED AS DEPICTED/DESCRIBED FOR CROSS-SECTIONS 3 (LAWNS) AND 4 (RESIDENTIAL AREAS) ON DETAIL SHEET 8B. NOTE THAT WORK PADS AND PULL PADS ARE NOT DEPICTED WITH "TEMPORARY" SYMBOLOGY, BUT ARE INSTEAD NOTED WITH CALLOUT BUBBLES. OTHER METHODS THAT MAY RETURN LAWNS TO PREEXISTING CONDITIONS OR RETURN GRAVEL WORK AREAS/ACCESS IN THE INDICATED RESIDENTIAL AREAS TO AN EVEN GRADE AND REVEGETATED, MAY BE PERMISSIBLE.
- F. INSTALL CONSTRUCTION ENTRANCE TRACK PAD FOR ROADWAY PROTECTION AND EROSION AND SEDIMENT CONTROL. LINE TRACKING PAD WITH GEOTEXTILE FABRIC AND REMOVE TRACKING PAD AFTER CONSTRUCTION. MAINTAIN IF TRACKING PAD BECOMES CLOGGED WITH SOIL. ANY SEDIMENT TRACKED ONTO THE ROAD SURFACE SHALL BE SWEEPED CLEAN AT THE END OF EACH WORK DAY. REFER TO EVERSOURCE'S BMP MANUAL (2016) PAGE 3-8 AND 3-9 AND D&M PLAN DETAIL SHEET 5C.

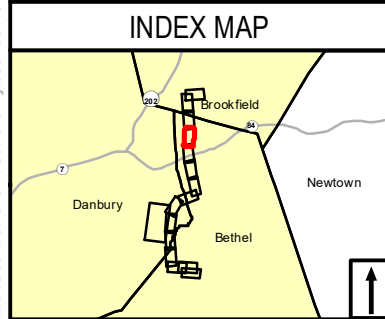
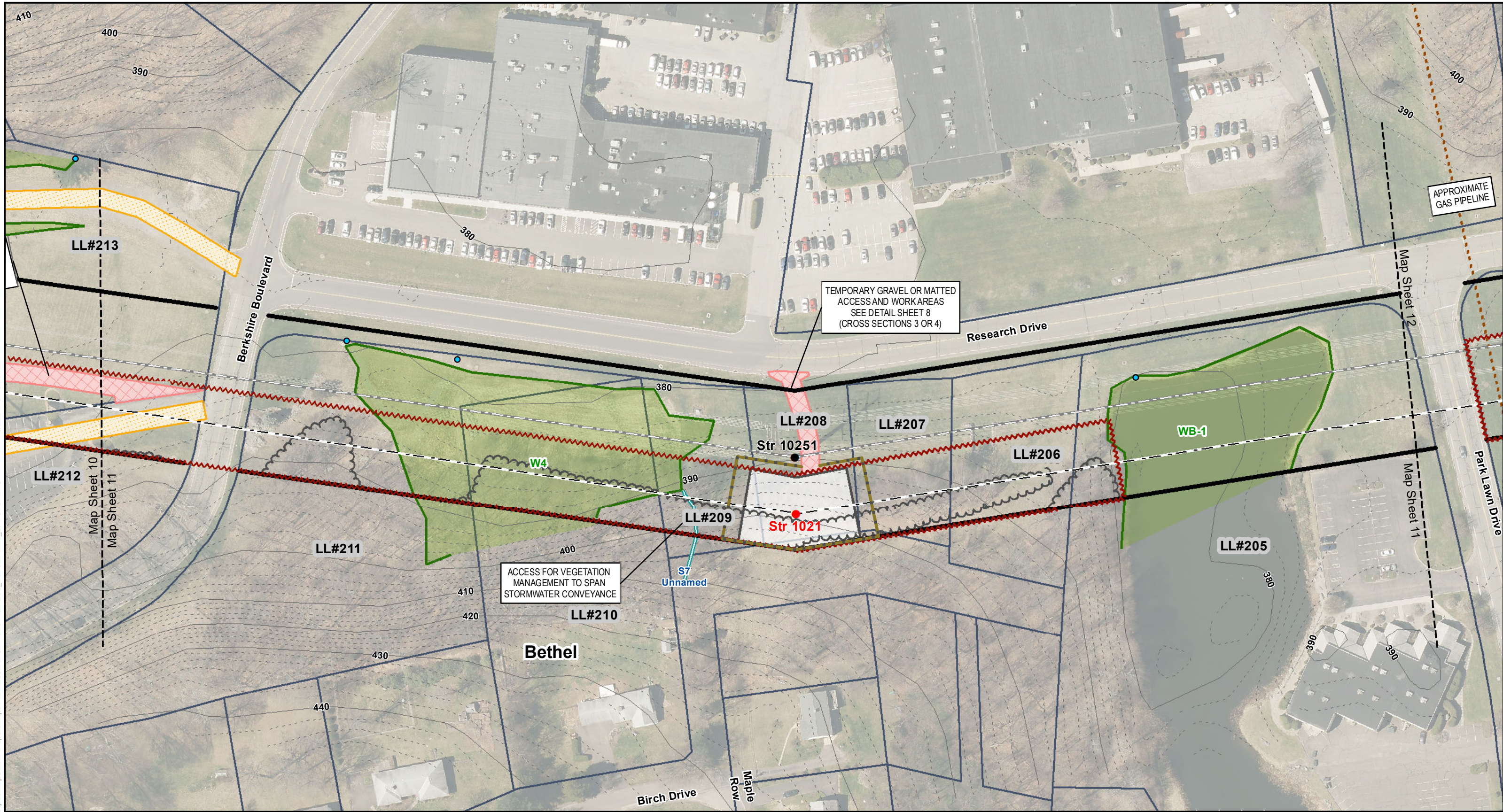
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Str #	X-SEC	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION	
1021	2	VERTICAL RUNNING ANGLE	130	WEATHERING STEEL	DRILLED SHAFT	
Line List	Owner Name		Site Address		Municipality	State
204	BERKSHIRE INDUSTRIAL CORPORATION		2 PARK LAWN DRIVE		BETHEL	CT
205	BERKSHIRE INDUSTRIAL CORPORATION		01-11 PARKLAWN DRIVE		BETHEL	CT
206	STEINER RICHARD E		39 MAPLE ROW		BETHEL	CT
207	STEINER RICHARD E		37 MAPLE ROW		BETHEL	CT
208	STEINER RICHARD E		35 MAPLE ROW		BETHEL	CT
209	STEINER RICHARD E		33 MAPLE ROW		BETHEL	CT
210	BARCHI DAVID J		29 BIRCH DRIVE		BETHEL	CT
211	BERKSHIRE WEST LLC		1 BERKSHIRE BOULEVARD		BETHEL	CT
212	BERKSHIRE INDUSTRIAL CORP		8 BERKSHIRE BOULEVARD		BETHEL	CT
213	BERKSHIRE INDUSTRIAL CORP		16 BERKSHIRE BOULEVARD		BETHEL	CT

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Legend

- Proposed 1887 Line Structure
- Existing Structure
- Existing Right-of-Way
- Proposed 115-kV Line (Centerline)
- Existing Transmission Line (Centerline)
- 10' Contour Line
- 2' Contour Line
- Work Pads
- Existing Access Road
- Existing Alternate Access Road
- New Access Road
- New Temporary Access Road
- Construction Matting
- Temporary Wetland Impact
- Limit of Disturbance
- Existing Tree Line
- Vegetation Removal Limits
- Intermittent Stream Line
- Perennial Watercourse
- Ordinary High Water Mark
- Wetland Boundary
- Wetland Area
- CT Wetland Only
- Rare Species
- Regulatory Floodway Zone
- 100 Year Flood Zone
- Eversource Property
- Parcels
- Municipal Boundary
- LL#100 Line List Label
- Map Sheet Matchline
- Culvert

1 inch = 100 feet

NO.							DATE							REVISIONS							BY							CHK							APP						

EVERSOURCE

Southwest Connecticut
Reliability Project
Development & Management Plan

Bethel, CT

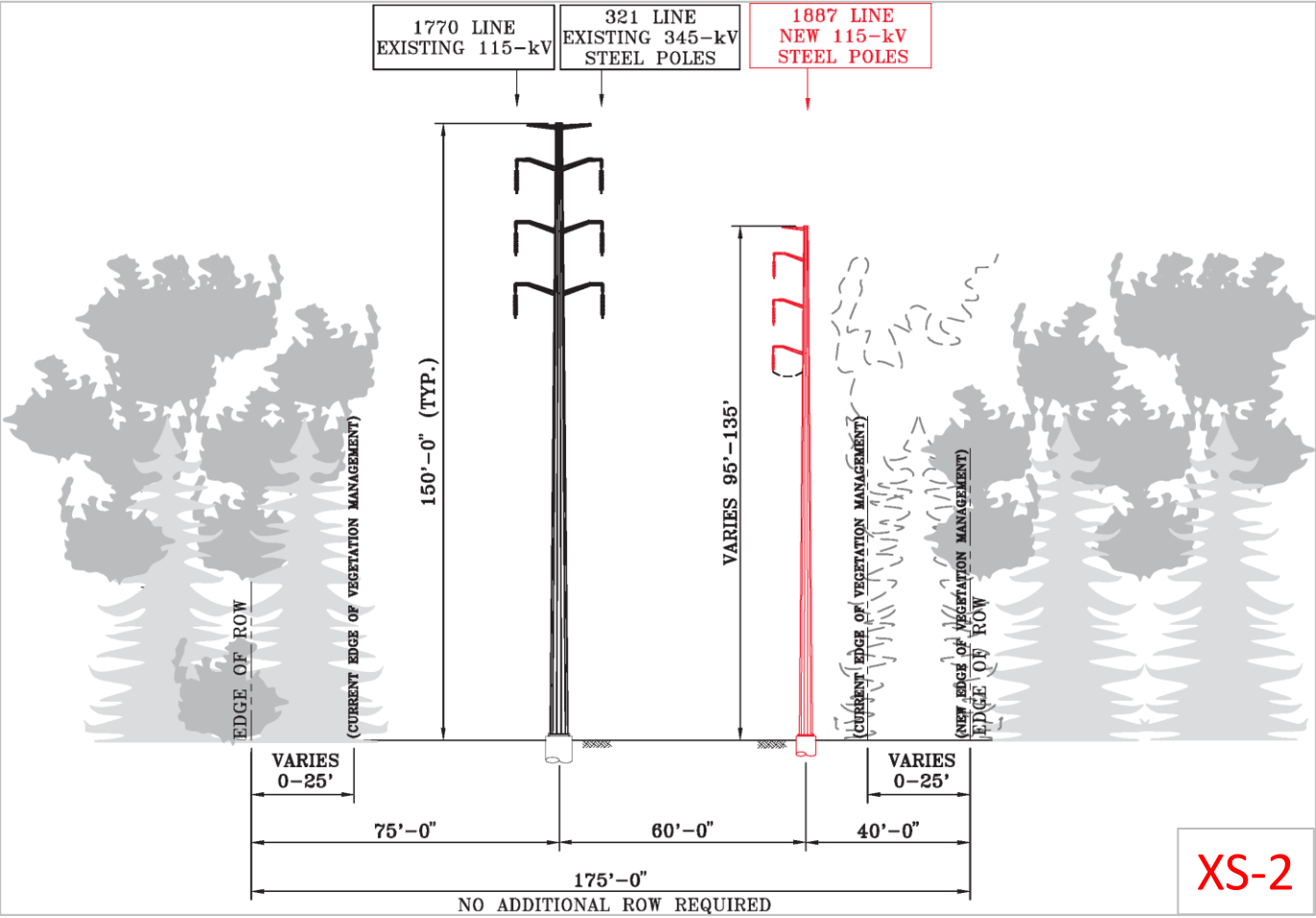
Date: June 2017

Map Sheet 11 of 13

Map Author: K. Gabriel

SWCT Reliability Project

Mapsheet 12 Notes



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- F. BLOCK OFF WORK AREAS COINCIDING WITH PARKING LOTS, AS NECESSARY, WITH SAFETY CONES AND/OR BARRIERS. CONTACT PROJECT OUTREACH FOR ADDITIONAL INFORMATION.
- G. INSTALL CONSTRUCTION ENTRANCE TRACK PAD FOR ROADWAY PROTECTION AND EROSION AND SEDIMENT CONTROL. LINE TRACKING PAD WITH GEOTEXTILE FABRIC AND REMOVE TRACKING PAD AFTER CONSTRUCTION. MAINTAIN IF TRACKING PAD BECOMES CLOGGED WITH SOIL. ANY SEDIMENT TRACKED ONTO THE ROAD SURFACE SHALL BE SWEEPED CLEAN AT THE END OF EACH WORK DAY. REFER TO EVERSOURCE’S BMP MANUAL (2016) PAGE 3-8 AND 3-9 AND D&M PLAN DETAIL SHEET 5C.

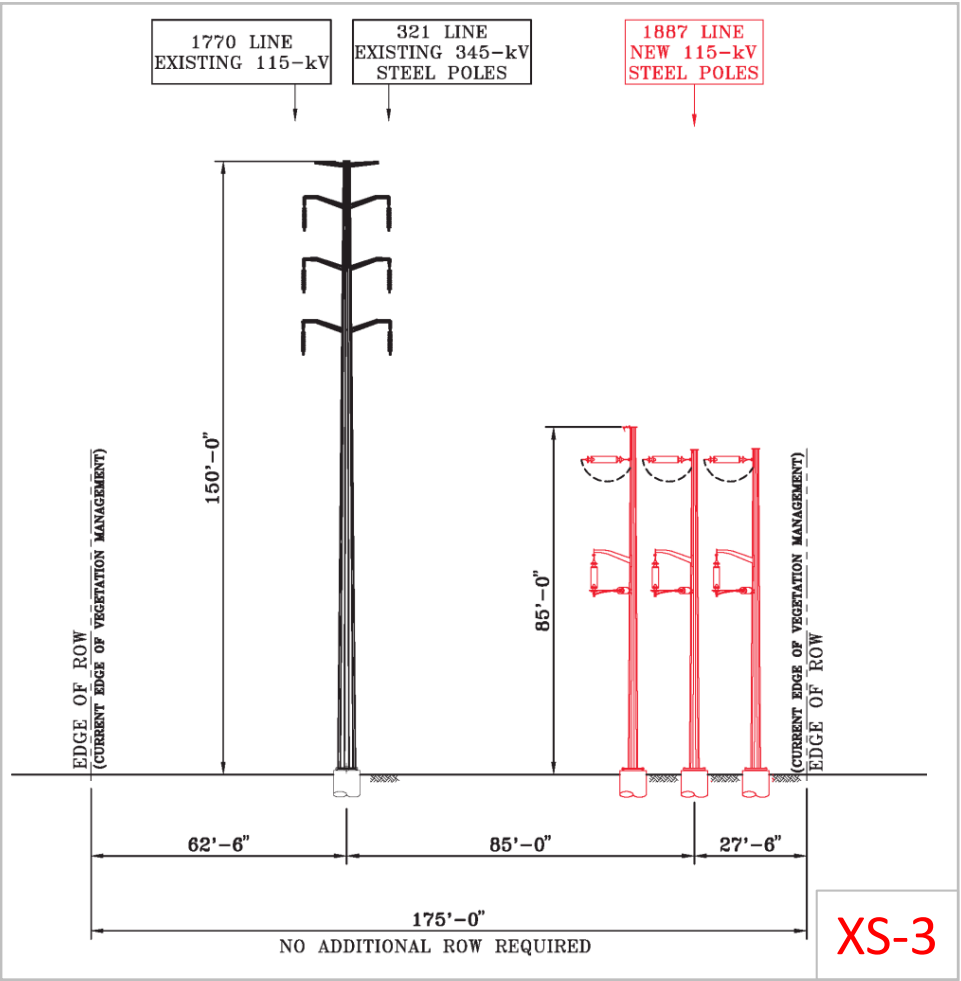
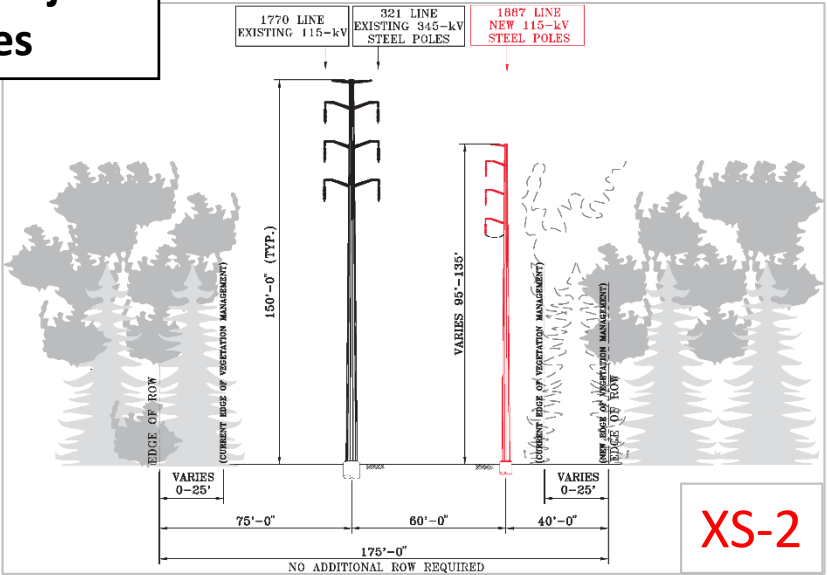
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Line List	Owner Name		Site Address	Municipality	State
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201	FREIDA A STEINER LIVING TRUST		PARK RIDGE ROAD	BETHEL	CT
202	FREIDA A STEINER LIVING TRUST		PARK RIDGE ROAD	BETHEL	CT
203	FREIDA A STEINER LIVING TRUST		PARK RIDGE ROAD	BETHEL	CT
204	BERKSHIRE INDUSTRIAL CORPORATION		2 PARK LAWN DRIVE	BETHEL	CT
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SWCT Reliability Project
Mapsheet 13 Notes



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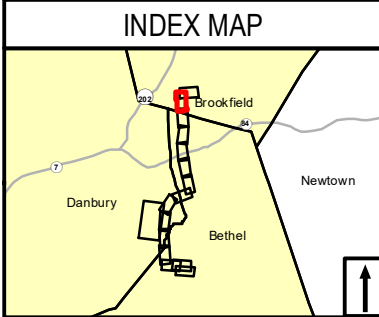
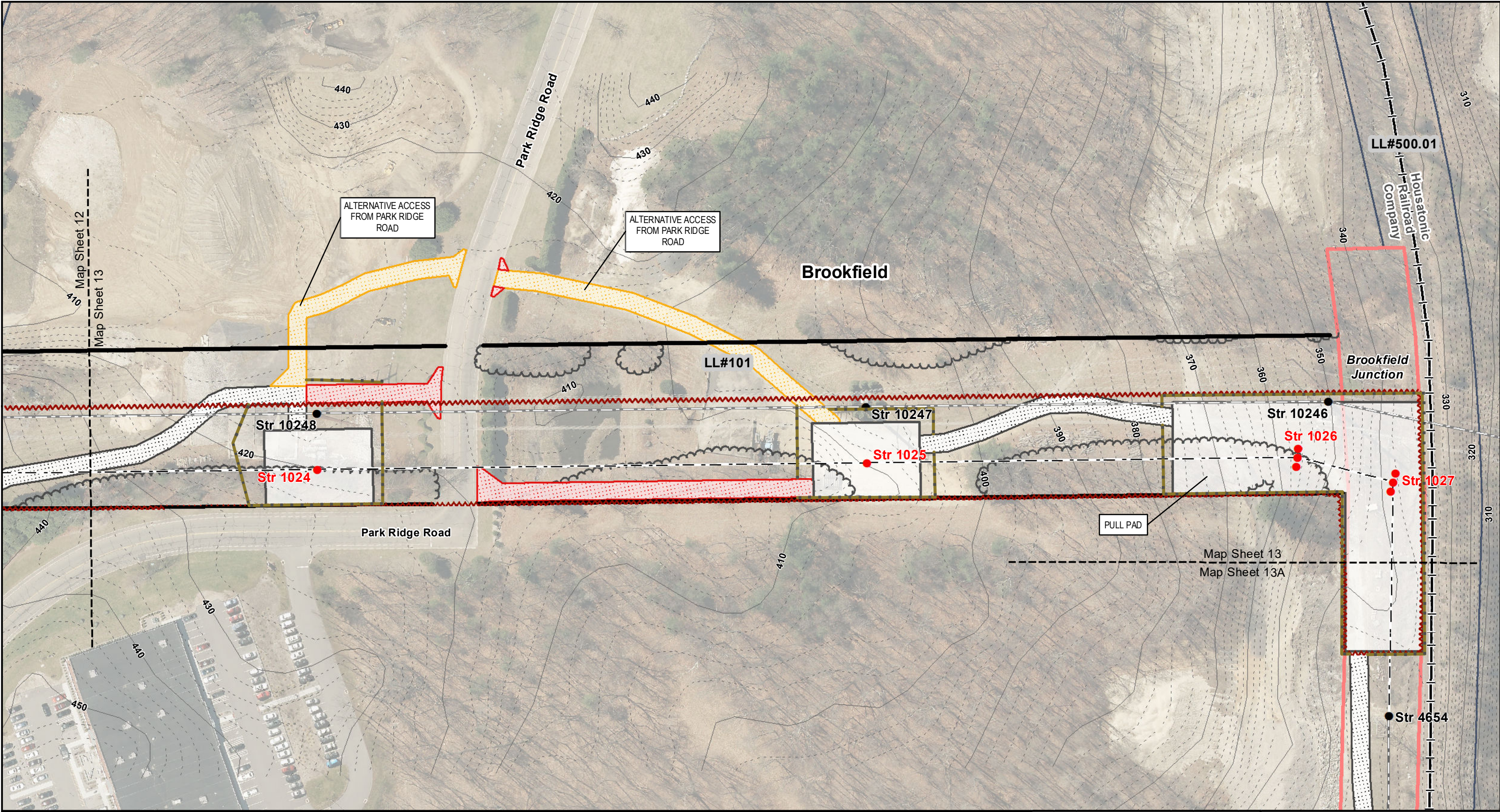
- A. AVOID NON-JURISDICTIONAL STORMWATER DEPRESSION ADJACENT TO AND NORTH OF PARK RIDGE ROAD LOCATED WITHIN THE ROW.
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 - THE LIMIT OF DISTURBANCE DEPICTED ON THE MAPPING REFLECTS AREAS WHERE GRADING MAY BE NECESSARY DUE TO SITE CONSTRAINTS SUCH AS STEEP TOPOGRAPHY.
 - PAVED SURFACES SHALL BE PROTECTED DURING CONSTRUCTION AS NECESSARY AND ANY DAMAGE TO SUCH SURFACES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. SAFETY SIGNAGE TO INDICATE CONSTRUCTION WORK ZONES SHALL BE INSTALLED ALONG PUBLIC ROADS AS NECESSARY AND AS REQUIRED THROUGH COORDINATION WITH STATE AND LOCAL ENTITIES.
 - SPOILS RESULTING FROM CONSTRUCTION ACTIVITIES MAY BE SPREAD WITHIN THE LIMITS OF VEGETATION MANAGEMENT. SPOILS SHALL NOT BE PERMANENTLY SPREAD WITHIN EXISTING MAINTAINED YARDS/LAWNS OR SENSITIVE ENVIRONMENTAL RESOURCE AREAS. HOWEVER, TEMPORARY STOCKPILING OF SPOILS IS PERMISSIBLE PROVIDED SEDIMENT IS ADEQUATELY CONTAINED AND DISTURBED AREAS RESTORED TO PRE-EXISTING CONDITIONS.

Str #	X-SEC	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION	
1024	2	VERTICAL TANGENT	93.5	WEATHERING STEEL	DIRECT EMBED	
1025	2	VERTICAL TANGENT	98	WEATHERING STEEL	DIRECT EMBED	
1026	3	HORIZONTAL DEADEND	70	WEATHERING STEEL	DRILLED SHAFT	
1027	3	HORIZONTAL DEADEND/TAP	85	WEATHERING STEEL	DRILLED SHAFT	
Line List	Owner Name			Site Address	Municipality	State
500.01	MAYBROOK RAILROAD COMPANY			1 FEDERAL RD	BROOKFIELD	CT
101	BERKSHIRE NORTH LLC			101 PARK RIDGE RD	BROOKFIELD	CT

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Legend

<ul style="list-style-type: none">Proposed 1887 Line StructureExisting StructureExisting Right-of-WayProposed 115-kV Line (Centerline)Existing Transmission Line (Centerline)10' Contour Line2' Contour Line	<ul style="list-style-type: none">Work PadsExisting Access RoadExisting Alternate Access RoadNew Access RoadNew Temporary Access RoadConstruction MattingTemporary Wetland ImpactLimit of Disturbance	<ul style="list-style-type: none">Existing Tree LineVegetation Removal LimitsIntermittent Stream LinePerennial WatercourseOrdinary High Water MarkWetland BoundaryWetland AreaCT Wetland Only	<ul style="list-style-type: none">Rare SpeciesRegulatory Floodway Zone100 Year Flood ZoneEversource PropertyParcelsMunicipal BoundaryLL#100 Line List Label	<ul style="list-style-type: none">Map Sheet Matchline
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1 inch = 100 feet

0 100 200 Feet

NO. DATE REVISIONS BY CHK APP APP

EVERSOURCE

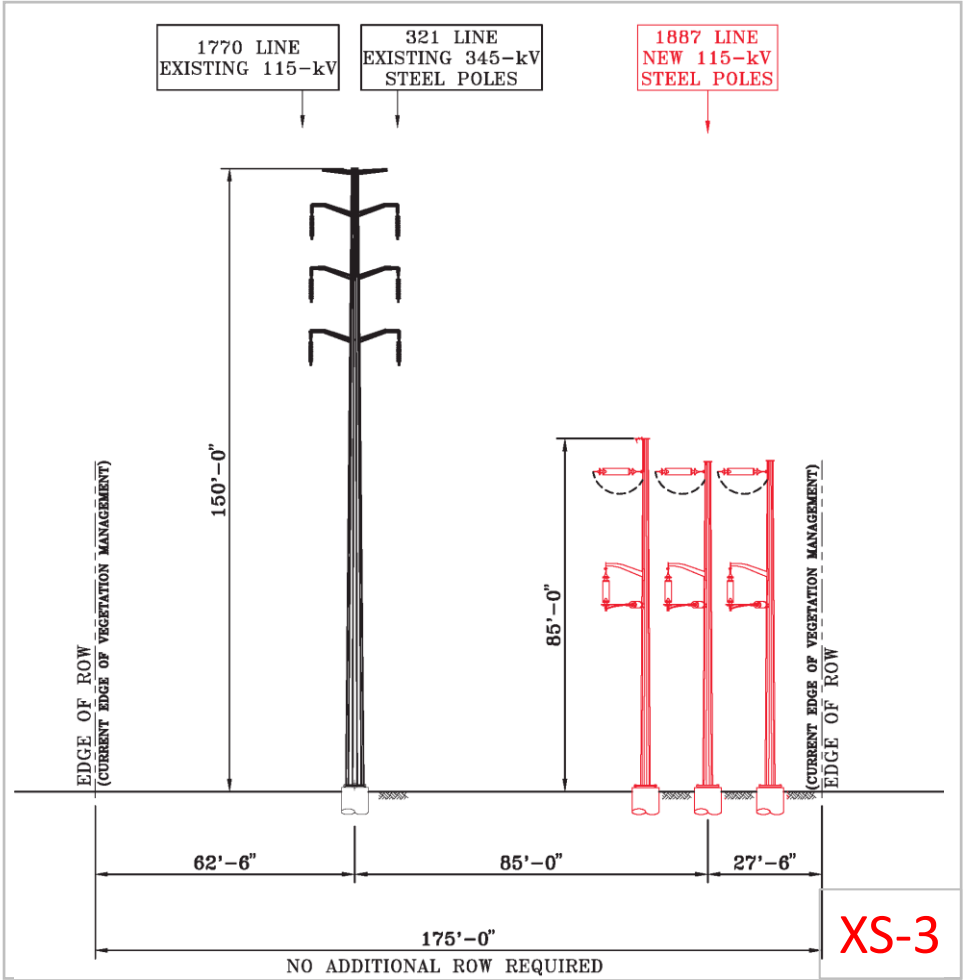
Southwest Connecticut Reliability Project Development & Management Plan

Brookfield, CT	Map Sheet 13 of 13
Date: June 2017	Map Author: K. Gabriel

BSC GROUP

SWCT Reliability Project

Mapsheet 13A Notes



SITE SPECIFIC NOTES

- A. INSTALL CONSTRUCTION ENTRANCE TRACK PAD FOR ROADWAY PROTECTION AND EROSION AND SEDIMENT CONTROL. LINE TRACKING PAD WITH GEOTEXTILE FABRIC AND REMOVE TRACKING PAD AFTER CONSTRUCTION. MAINTAIN IF TRACKING PAD BECOMES CLOGGED WITH SOIL. ANY SEDIMENT TRACKED ONTO THE ROAD SURFACE SHALL BE SWEEPED CLEAN AT THE END OF EACH WORK DAY. REFER TO EVERSOURCE’S BMP MANUAL (2016) PAGE 3-8 AND 3-9 AND D&M PLAN DETAIL SHEET 5C.

GENERAL NOTES

NOTES BELOW PROVIDE A SUMMARY OF BMPS. REFER TO DETAIL SHEETS 2-5, D&M PLAN VOLUME 3, AND THE MAPSHEET SPECIFIC NOTES (BELOW) FOR ADDITIONAL INFORMATION. REFER TO DETAIL SHEETS 8 A&B FOR CROSS-SECTIONAL DEPICTIONS OF TYPICAL ACCESS ROADS, FILL IN FLOODPLAINS, AND (TEMPORARY) FILL MATERIAL IN RESIDENTIAL AREAS OR LAWNS.

- THE LIMITS OF VEGETATION MANAGEMENT, AS SHOWN, DEFINE AREAS WHERE VEGETATION REMOVAL AND GRUBBING, GRADING, AND EXCAVATION MAY OCCUR. MINOR DEVIATIONS MAY BE REQUIRED IN SOME LOCATIONS. ADDITIONALLY, DANGER OR HAZARD TREE REMOVAL MAY BE REQUIRED OUTSIDE OF THE VEGETATION REMOVAL LIMITS. VEGETATION REMOVAL EQUIPMENT MAY OPERATE ANYWHERE WITHIN THE LIMITS OF VEGETATION MANAGEMENT IN UPLANDS. IN WETLANDS AND ACROSS WATER RESOURCES, TEMPORARY CLEARING ROUTES (CONSISTING OF TIMBER MATS OR EQUIVALENT) WOULD BE USED BY THE CLEARING CONTRACTOR ONLY (THESE ARE NOT DEPICTED ON THE MAPSHEETS AND WILL BE DETERMINED BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION). REFER TO DETAIL SHEETS 2 A&B FOR ADDITIONAL MEASURES IN WETLAND RESOURCE AREAS.
- ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH THE RELEVANT PORTIONS OF EVERSOURCE’S “BEST MANAGEMENT PRACTICES MANUAL FOR MASSACHUSETTS AND CONNECTICUT (SEPTEMBER 2016)” (BMP MANUAL), UNLESS MORE STRINGENT PROJECT-SPECIFIC MEASURES APPLY. ALL WORK WILL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF SITING APPROVALS FROM THE COUNCIL AND REGULATORY APPROVALS FROM THE U.S. ARMY CORPS OF ENGINEERS AND THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, AND WITH ALL PROJECT PROTOCOLS. REFER TO DETAIL SHEETS 2-5 AND D&M PLAN VOLUME 3.
- EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION, AS REQUIRED, TO COMPLY WITH THE PROVISIONS, AS APPLICABLE, OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, EVERSOURCE’S BMP MANUAL, AND REGULATORY APPROVALS.
- EXISTING CULVERTS WILL BE PROTECTED, AS DEEMED NECESSARY, TO PREVENT DAMAGE DURING CONSTRUCTION. INLET PROTECTION SHALL BE INSTALLED FOR ANY STORMWATER CATCH BASIN WITHIN THE WORK ZONE.
- ACCESS ROADS SHALL BE CONSTRUCTED AND CONFORM TO ADDITIONAL REQUIREMENTS AS INDICATED ON MAPPING WITHIN FLOODPLAINS, RESIDENTIAL AREAS, AND LAWNS (SEE DETAIL SHEET 8 A&B). ACCESS ROADS SHALL HAVE A MAXIMUM TRAVEL SURFACE OF 16 FEET IN WIDTH WITH SHOULDERS OF UP TO 2- FEET IN WIDTH, UNLESS INCREASED WIDTH IS REQUIRED FOR SAFE CONSTRUCTION, AS INDICATED ON THE MAPPING (E.G. TO ALLOW EQUIPMENT TURNING RADII AT CURVES IN ROADS OR AT THE INGRESS/EGRESS POINTS FROM A PUBLIC ROAD OR WORK AREA).
- THE LIMIT OF DISTURBANCE DEPICTED ON THE MAPPING REFLECTS AREAS WHERE GRADING MAY BE NECESSARY DUE TO SITE CONSTRAINTS SUCH AS STEEP TOPOGRAPHY.
- PAVED SURFACES SHALL BE PROTECTED DURING CONSTRUCTION AS NECESSARY AND ANY DAMAGE TO SUCH SURFACES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. SAFETY SIGNAGE TO INDICATE CONSTRUCTION WORK ZONES SHALL BE INSTALLED ALONG PUBLIC ROADS AS NECESSARY AND AS REQUIRED THROUGH COORDINATION WITH STATE AND LOCAL ENTITIES.
- SPOILS RESULTING FROM CONSTRUCTION ACTIVITIES MAY BE SPREAD WITHIN THE LIMITS OF VEGETATION MANAGEMENT. SPOILS SHALL NOT BE PERMANENTLY SPREAD WITHIN EXISTING MAINTAINED YARDS/LAWNS OR SENSITIVE ENVIRONMENTAL RESOURCE AREAS. HOWEVER, TEMPORARY STOCKPILING OF SPOILS IS PERMISSIBLE PROVIDED SEDIMENT IS ADEQUATELY CONTAINED AND DISTURBED AREAS RESTORED TO PRE-EXISTING CONDITIONS.

Str #	X-SEC	DESCRIPTION	HEIGHT (FT)	FINISH	FOUNDATION
1026	3	HORIZONTAL DEADEND	70	WEATHERING STEEL	DRILLED SHAFT
1027	3	HORIZONTAL DEADEND/TAP	85	WEATHERING STEEL	DRILLED SHAFT
Line List	Owner Name		Site Address	Municipality	State
500.01	MAYBROOK RAILROAD COMPANY		1 FEDERAL RD	BROOKFIELD	CT
101	BERKSHIRE NORTH LLC		101 PARK RIDGE RD	BROOKFIELD	CT

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DEVELOPMENT AND MANAGEMENT PLAN

VOLUME 2

DETAIL SHEETS

Detail Sheet No.			
1		Permitted Water Resource Impacts
2	A&B	.....	Water Resources Protocols
3	A&B	.....	Rare Species Avoidance and Minimization Measures – Plant
4		.....	Rare Species Avoidance and Minimization Measures – Animal
5	A - C	.....	Erosion and Sediment Control Details
6	A&B	.....	Typical Structure Configurations
7		Typical Foundation and Grounding Details
8	A&B	Access Road Details
9	A&B	Floodplain Compensation Details

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PERMITTED WATER RESOURCE IMPACTS

								Activity Type				Discharge of Fill Materials (Summary Acres)			Forested Wetland Tree Clearing *
								Discharge of Fill Materials (Temporary Sq. Ft)			Discharge of Fill Materials (Permanent Sq. Ft)				
Permit Area	Wetland ID**	Location	D&M Map Sheet No. (of 13)	Dominant Cowardin Code(s) [Secondary Codes]	HGM Code(s)	Waters Types	Latitude/ Longitude	Work Area	Access Road	Additional Matting for Clearing Access	Structure Foundation(s) ***	Temporary	Permanent	Total	Secondary Impacts (Acres)
1	W1	Walnut Hill Road to Structure 1006	1A, 1-3	PEM [PFO, PSS]	Riverine	RPWWD (S1)	41.391342° , - 73.406675°	98,620	17,665	-	836	2.7	0.0192	2.7	2.14
2	W1	Structure 1007	3, 4	PEM [PFO, PSS]	Riverine	RPWWD (S1)	41.395397° , - 73.407259°	6,370	2,880	-	-	0.2	-	0.2	
3	W1	Structure 1008	4	PEM [PFO, PSS]	Riverine	RPWWD (S1, S2)	41.397863° , - 73.407502°	10,000	1,405	3,200	78.5	0.3	0.0018	0.3	
4	W1	Structure 1009-10	5	PEM [PFO, PSS]	Riverine	RPWWD (S2)	41.402955° , - 73.407037°	10,070	490	1,600	78.5	0.3	0.0018	0.3	
5	W1	Structure 1011-12	6	PEM [PFO, PSS]	Riverine	RPWWD (S2, S3)	41.406340° , - 73.406595°	20,260	3,590	-	157	0.5	0.0036	0.6	
6	W2	Structure 13, Guard Pad	6	PEM [PFO]	Riverine	NRPWW (S4)	41.407341° , - 73.403976°	6,080	-	6,400	-	0.3	-	0.3	0.32
7	W3	Chimney Drive to Sky Edge Land	8	PSS [PFO]	Riverine	RPWWD (S5)	41.412065° , - 73.400242°	-	-	4,160	-	0.1	-	0.1	<0.01
8	W4	Berkshire Boulevard to Structure 1021	11	PEM [PFO]	Slope	ISOLATE	41.421985° , - 73.401600°	-	-	2,240	-	0.05	-	0.05	0.13
TOTALS :												4.5	0.026	4.5	2.6

*Forested wetland tree clearing impact areas (last column): note that in some areas, discharge of fill and secondary impacts are overlapping. Access routes for tree clearing are not depicted on mapping as they will be determined in the field, as necessary.

**Wetland resource areas not impacted by Project construction (not associated with a discharge of fill material and therefore not subject to jurisdiction under the 2016 Connecticut General Permit) or from tree clearing are not included in this table (e.g. Water Body/Pond (WB-1) and W5). The banks of all streams will be spanned, therefore there are no impacts associated with stream crossings indicated in this table.

***See summary table below. Structures 1000-1003 are 3-pole structures with an assumed 8-ft diameter permanent impact area for each pole (150 square feet per structure). The remaining structures are monopoles with an assumed 10-ft diameter permanent impact area (78.5 square feet per structure). Note all structures will be installed in wetland W1 between Plumtree Substation (16 Walnut Hill Road) to Structure 1012 (south of Old Sherman Turnpike).

Summary of Structure Foundation Permanent Impacts***

Permit Area	Structure	Permanent Impact (Sq. Ft)
1	1000	150
1	1001	150
1	1002	150
1	1003	150
1	1004	78.5
1	1005	78.5
1	1006	78.5
3	1008	78.5
4	1010	78.5
5	1011	78.5
5	1012	78.5
TOTAL		1,150

EVERSOURCE

Southwest Connecticut
Reliability Project
Development & Management Plan

PERMITTED WATER RESOURCE IMPACTS

Detail Sheet 1 of 9

NO.

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I. WETLANDS IMPACT AVOIDANCE AND MINIMIZATION MEASURES

THE FOLLOWING MEASURES WILL BE TAKEN TO AVOID OR MINIMIZE IMPACTS TO WETLANDS DURING PROJECT ACTIVITIES. ALL WORK IN OR NEAR WETLANDS WILL BE IN ACCORDANCE WITH PROJECT MAPPING, EVERSOURCE’S BMP MANUAL (2016), AND THE 2002 CONNECTICUT GUIDELINES FOR E&SC, AS APPLICABLE. NOTE THAT WETLAND AVOIDANCE AND MINIMIZATION MEASURES DO NOT PRECLUDE THE NEED FOR ADDITIONAL MEASURES FOR OVERLAPPING SENSITIVE RESOURCE AREAS SUCH AS RARE SPECIES HABITAT OR FLOODPLAINS.

- I. A. COMPLY WITH RELEVANT PORTIONS OF EVERSOURCE’S BMP MANUAL 2016 (REFER TO VOLUME 3).
- I. 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 BMPS ON THIS DETAIL SHEET.
- I. C. USE LOW-IMPACT EQUIPMENT OR INSTALL TEMPORARY TIMBER MATS (OR EQUIVALENT) TO MINIMIZE RUTTING DURING VEGETATION REMOVAL ACTIVITIES IN WETLANDS. REFER TO THE VEGETATION CLEARING PLAN IN VOLUME 3.
- I. 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. ONLY REMOVE SCRUB-SHRUB VEGETATION AS NECESSARY TO ACCOMMODATE PROJECT ACCESS AND WORK AREAS AND TO PROVIDE SUFFICIENT CLEARANCE TO CONDUCTORS OF THE NEW LINE. MATTING MAY BE PLACED DIRECTLY ATOP SHRUBS, WHERE FEASIBLE, TO REDUCE VEGETATION MANAGEMENT IMPACTS AND TO DECREASE COMPACTION FROM MATTING PLACEMENT.
- I. 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. WHERE SILT FENCING IS NOT INSTALLED AROUND TEMPORARY MATTING IN WETLANDS, THE FOOTPRINT OF THE MATTING DEFINES THE LIMIT OF DISTURBANCE NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED IN WETLANDS OUTSIDE OF THE WORK LIMITS DEFINED BY THE EROSION AND SEDIMENTATION CONTROLS OR MATTING.
- I. F. INSPECT AND MAINTAIN EROSION AND SEDIMENTATION CONTROLS THROUGHOUT CONSTRUCTION. SEDIMENT THAT ACCUMULATES BEHIND THESE CONTROLS SHALL PERIODICALLY BE REMOVED AND EITHER 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 BE DISPOSED OF OFF-SITE.
- I. 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, AS DEPICTED ON MAPPING.
- I. H. AVOID OR MINIMIZE ACCESS THROUGH WETLANDS, WHERE POSSIBLE. WHERE EXISTING ACCESS ROADS MUST BE IMPROVED OR DEVELOPED IN UPLANDS, THE ROADS WILL BE DESIGNED, WHERE PRACTICAL, SO AS NOT TO INTERFERE WITH SURFACE WATER FLOW OR FUNCTIONS OF ADJACENT WETLANDS.
- I. I. IMPLEMENT PROCEDURES TO AVOID OR MINIMIZE THE POTENTIAL FOR SPILLS INTO WETLANDS. REFER TO THE SPILL PREVENTION AND CONTROL PLAN IN VOLUME 3, ATTACHMENT C. 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, PROVIDED PROPER TEMPORARY SPILL PREVENTION, CONTROL, AND CONTAINMENT PROCEDURES ARE FOLLOWED.
- I. 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.
- I. K. PROHIBIT MIXING, TESTING, STORAGE, OR DISPOSAL OF CONCRETE (USED FOR SOME STRUCTURE FOUNDATIONS) WITHIN 25 FEET OF WETLANDS.
- I. 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. EXCESS SOIL WILL BE REMOVED FROM WETLAND WORK AREAS AND SPREAD IN UPLAND AREAS.
- I. 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.
- I. N. RESTORE WETLANDS, AS A FINAL PHASE OF TRANSMISSION LINE CONSTRUCTION, TO PRE-CONSTRUCTION CONFIGURATIONS AND CONTOURS TO THE EXTENT PRACTICABLE AND REVEGETATE WITH ANNUAL RYEGRASS, AN APPROPRIATE WETLAND SEED MIX, OR EQUIVALENT. ANNUAL RYEGRASS MAY BE USED FOR TEMPORARY STABILIZATION, PRIOR TO CONSTRUCTION COMPLETION AND FINAL SITE RESTORATION.
- I. 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 3, ATTACHMENT F).

II. WATERCOURSE AND WATERBODIES IMPACT 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 (2016), AND THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.



- II. A. 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 MINIMIZE THE POTENTIAL FOR 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.
- II. B. 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 AND SPAN THE FULL BANK WIDTH).
- II. C. 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, BUT MUST SPAN THE FULL BANK WIDTH OF THE WATERCOURSE. REFER TO THE VEGETATION CLEARING PLAN IN VOLUME 3, ATTACHMENT B.
- II. D. 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.
- II. E. EXISTING RIPARIAN VEGETATION ALONG THE ROW WITHIN 25 FEET OF WATERCOURSE BANKS WILL BE LEFT INTACT, TO THE EXTENT PRACTICABLE, AND CONSISTENT WITH ROW VEGETATION MANAGEMENT REQUIREMENTS.
- II. F. APPROPRIATE BMPS WILL BE USED, AS DETERMINED BY SITE-SPECIFIC CONDITIONS, TO PREVENT OR MINIMIZE THE POTENTIAL FOR SEDIMENTATION INTO WATERCOURSES FROM ALL CONSTRUCTION ACTIVITIES.
- II. G. MAT BRIDGE 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.
- II. H. MIXING, TESTING, STORAGE, AND DISPOSAL OF CONCRETE (USED FOR SOME STRUCTURE FOUNDATIONS) SHALL BE CONDUCTED IN A MANNER THAT PREVENTS DISCHARGE TO WATERCOURSES.
- II. I. 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 3, ATTACHMENT C), WILL BE APPLIED.
- II. J. NO BULK PETROLEUM PRODUCTS WILL BE STORED WITHIN 25 FEET OF A WATERCOURSE.
- II. K. AT THE FINAL PHASE OF CONSTRUCTION, TEMPORARY MAT SPANS ACROSS WATERCOURSES WILL BE REMOVED AND THE AFFECTED AREA OF EACH WATERCOURSE WILL BE RESTORED TO PREEXISTING CONDITIONS TO THE EXTENT PRACTICABLE. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REMOVED UPON THE STABILIZATION OF EXPOSED SOILS NEAR WATERCOURSES.

III. FLOODPLAIN AND FLOODWAY IMPACT AVOIDANCE AND MINIMIZATION MEASURES

(Structures 1000-1008, 1010-1012. Mapsheets 1A, 1-6)

THE FOLLOWING MEASURES WILL BE TAKEN TO AVOID OR MINIMIZE IMPACTS OF CONSTRUCTION ACTIVITIES IN THE FEMA-DESIGNATED REGULATORY FLOODWAY (ZONE OF HIGH VELOCITY FLOW DURING FLOOD EVENTS) AND THE FEMA 100-YEAR FLOODPLAINS, AS IDENTIFIED ON THE PROJECT MAPPING. NOTE THAT THE REGULATORY FLOODWAY IS COLLOCATED WITHIN THE 100-YEAR FLOODPLAIN AND RESTRICTIONS WITHIN THE 100-YEAR FLOODPLAIN ALSO APPLY TO AREAS WITHIN THE REGULATORY FLOODWAY. RECOMMENDATIONS BELOW DO NOT PRECLUDE THE NEED TO USE TEMPORARY CONSTRUCTION MATTING IN WETLANDS.

- III. A. REFER TO DETAIL SHEETS 8 A&B FOR A REPRESENTATIVE ACCESS ROAD CROSS-SECTION FOR GRADING IN UPLANDS WITHIN THE 100-YEAR FLOODPLAIN.
- III. B. REFER TO DETAIL SHEETS 9 A&B FOR THE FLOODPLAIN COMPENSATION PLAN FOR MITIGATION FOR THE LOSS OF FLOOD STORAGE RESULTING FROM THE UNAVOIDABLE INSTALLATION OF STRUCTURES 1000-1012 WITHIN THE FLOODPLAIN. FLOODPLAIN COMPENSATION ACTIVITIES SHALL BE CONDUCTED PRIOR TO OR CONCURRENT WITH THE INSTALLATION OF STRUCTURES 1000-1012. NOTE THAT THE CONSTRUCTION ACCESS ROAD THROUGH THIS AREA WILL BE CONSTRUCTED TO THE GRADES DEPICTED ON DETAIL SHEETS 9 A&B AND MAY BE LEFT IN PLACE POST-CONSTRUCTION.
- III. C. ALL GRADING WITHIN THE 100-YEAR FLOODPLAIN SHALL BE CONDUCTED SUCH THAT THE ORIGINAL GRADE IS EQUAL TO OR BELOW THE EXISTING GRADE; ALTERNATIVELY, TEMPORARY CONSTRUCTION MATTING SHALL BE USED. SEE DETAIL SHEET 8B FOR ACCESS ROAD DETAILS FOR WORK IN FLOODPLAINS. SHOULD ACCESS ROADS, OR WORK AREAS NEED TO BE CONSTRUCTED ABOVE THE EXISTING GRADE (E.G. SITE CONSTRAINTS SUCH AS EXISTING TOPOGRAPHY), THEN ROADS SHALL BE UNDERLAIN WITH GEOTEXTILE FABRIC, RESTORED TO PRE-EXISTING GRADES POST-CONSTRUCTION, AND EXCESS GRAVEL OR FILL MATERIAL ALONG WITH GEOTEXTILE MATERIAL WILL BE REMOVED FROM THE SITE OR SPREAD OUTSIDE OF THE FLOODPLAIN AND WETLANDS.
- III. D. NO SOILS SHALL BE PERMANENTLY STOCKPILED OR SPREAD WITHIN THE 100-YEAR FLOODPLAIN.
- III. E. ALL ACCESS OR WORK AREAS IN THE REGULATORY FLOODWAY MUST USE TEMPORARY CONSTRUCTION MATTING (E.G. TIMBER MATS OR EQUIVALENT). MATTING IN THE REGULATORY FLOODWAY SHALL BE ANCHORED IN PLACE.
- III. F. IMPLEMENT PROCEDURES TO AVOID OR MINIMIZE THE POTENTIAL FOR SPILLS IN THE 100-YEAR FLOODPLAIN. REFER TO THE SPILL PREVENTION AND CONTROL PLAN IN VOLUME 3, ATTACHMENT C). NO FUEL WILL BE STORED OR EQUIPMENT REFUELED WITHIN 100-YEAR FLOODPLAIN, 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 PARK OVERNIGHT OR BE REFUELED IN THE 100-YEAR FLOODPLAIN, PROVIDED PROPER TEMPORARY SPILL PREVENTION, CONTROL, AND CONTAINMENT PROCEDURES ARE FOLLOWED INCLUDING THE USED OF SECONDARY CONTAINMENT. SECONDARY CONTAINMENT OF FUELS OR HAZARDOUS MATERIALS SHOULD ALSO BE ANCHORED WHEN IN ACTIVE USE, BUT SHALL BE RELOCATED TO OUTSIDE THE FLOODPLAIN OVERNIGHT OR WHEN NOT IN USE.
- III. G. PROHIBIT MIXING, TESTING, STORAGE, OR DISPOSAL OF CONCRETE (USED FOR SOME STRUCTURE FOUNDATIONS) WITHIN THE 100-YEAR FLOODPLAIN.
- III. H. FOLLOWING THE COMPLETION OF TRANSMISSION LINE WORK, REMOVE TEMPORARY FILL MATERIALS FROM WORK SITES IN FLOODPLAINS, INCLUDING ALL GEOTEXTILE FABRIC, AND TEMPORARY CONSTRUCTION MATS USED FOR WORK PADS AND TEMPORARY ACCESS ROADS.
- III. I. AFTER TRANSMISSION FACILITY CONSTRUCTION, RESTORE SITES IN THE 100-YEAR FLOODPLAIN AND REGULATORY FLOODWAY AT OR BELOW PRE-CONSTRUCTION GRADES AND CONTOURS TO THE EXTENT PRACTICABLE AND REVEGETATE WITH ANNUAL RYEGRASS OR AN EVERSOURCE-APPROVED EQUIVALENT. EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE OR SPREAD IN UPLANDS OUTSIDE OF THE 100-YEAR FLOODPLAIN.

								
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IV. WETLAND RESTORATION PLAN

- IV. A. IF NECESSARY, WETLAND AREAS AFFECTED BY CONSTRUCTION MAY BE STABILIZED TEMPORARILY WITH ANNUAL RYEGRASS. FOR LONG-TERM STABILIZATION IN AREAS DISTURBED BY CONSTRUCTION, ANNUAL RYE GRASS, A WETLAND SEED MIX, OR AN EQUIVALENT MIX WILL BE APPLIED AT THE LABEL-RECOMMENDED SEEDING RATE. IF FINE GRADING IS NECESSARY, IT SHOULD BE PERFORMED DURING 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 BY GRADING SHALL BE SEEDED IMMEDIATELY.
- IV. B. 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.

V. WETLAND INVASIVE SPECIES CONTROL PLAN

- ALL WETLANDS THAT TRAVERSE THE PROJECT ROW ARE CHARACTERIZED BY WELL-ESTABLISHED AND EXTENSIVE POPULATIONS OF INVASIVE SPECIES, PRINCIPALLY COMMON REED (PHRAGMITES AUSTRALIS). TO CONTROL THE FURTHER 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.
- V. A. ALL CONSTRUCTION EQUIPMENT, VEHICLES, AND MATERIALS (E.G. TIMBER MATS, OR EQUIVALENT) MUST BE CERTIFIED BY THE CONTRACTOR TO BE CLEAN AND FREE OF EXCESS SOIL, DEBRIS, AND VEGETATION BEFORE BEING MOBILIZED TO THE PROJECT ROW.
- V. B. TIMBER MATS OR EQUIVALENT WILL BE USED TO INSTALL ACCESS ROADS AND WORK PADS IN WETLANDS SO CONSTRUCTION VEHICLES THAT FREQUENTLY TRAVEL ALONG ACCESS ROADS, SUCH AS PICKUPS CARRYING PERSONNEL OR MATERIAL DELIVERY TRUCKS, CAN AVOID DIRECT WETLAND INTERACTION.
- V. C. TIMBER MATS OR EQUIVALENT (E.G., CORDUROY ROADS) WILL BE USED IN WETLANDS DURING CLEARING OPERATIONS TO MINIMIZE THE SPREAD OF INVASIVE SPECIES WITHIN A WETLAND BY THE CLEARING EQUIPMENT.
- V. D. TO MINIMIZE THE POTENTIAL FOR SPREADING INVASIVE PLANT SPECIES FROM WETLAND-TO-WETLAND ALONG THE ROW, ANY EQUIPMENT WORKING IN A WETLAND CONTAINING INVASIVE PLANT SPECIES WILL BE CLEANED PRIOR TO RELOCATING TO A WORK SITE IN ANOTHER WETLAND CLEANING OF VEHICLES AND OTHER EQUIPMENT THAT COME INTO CONTACT WITH WETLAND VEGETATION (INCLUDING VEHICLE TRACKS AND TIRES) WILL INVOLVE REMOVAL OF VISIBLE DIRT, DEBRIS, AND VEGETATION USING BROOMS, SHOVELS, AND, IF NEEDED, COMPRESSED AIR.
- V. E. TIMBER MATS (OR EQUIVALENT) USED IN WETLANDS CONTAINING INVASIVE SPECIES WILL BE CLEANED PRIOR TO RELOCATION TO OTHER WORK AREAS OR WETLANDS. MAT CLEANING WILL INVOLVE DROPPING MATS ONE ON TOP OF ANOTHER TO SHAKE LOOSE ANY SEDIMENT AND DEBRIS. WHEN USING THIS METHOD OF CLEANING MATS (AS OPPOSED TO USING A BROOM, SHOVEL, AND/OR COMPRESSED AIR), AVOID IMPACTS TO SENSITIVE RESOURCE AREAS, INCLUDING STREAM BANKS OR RARE SPECIES.
- V. F. FINAL RESTORATION OF THE ROW WILL BE PERFORMED IN ACCORDANCE WITH THE EVERSOURCE’S 2016 BMP MANUAL. IN LIEU OF “HAY BALE” EROSION CONTROLS (HAY BALES MAY CONTAIN NOXIOUS OR INVASIVE SEED STOCK OR PLANT MATTER), THE CONTRACTOR WILL BE REQUIRED TO USE ALTERNATIVE MEASURES, TO THE EXTENT PRACTICABLE AND IF LOCAL SOURCES ARE AVAILABLE, SUCH AS STRAW BALES, WATTLES, COCONUT ROLLS, WOOD CHIP BAGS OR SILT FENCE.

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RARE SPECIES AVOIDANCE AND MINIMIZATION MEASURES - PLANT

*

SPECIES DESIGNATION: SPECIAL CONCERN

PROJECT ROW HABITAT:

- CONTACT EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING

SITE-SPECIFIC IMPACT AVOIDANCE AND MINIMIZATION MEASURES:

TO THE EXTENT PRACTICABLE, CONDUCT WORK BETWEEN OCTOBER 15 THROUGH MAY 1, OUTSIDE OF THE GROWING SEASON.

- OUTSIDE OF THE DRILLING LOCATION, SOIL DISTURBANCE SHOULD BE AVOIDED.
- VEGETATION MANAGEMENT TO BE CONDUCTED ON FOOT, AS INDICATED ON MAPPING, BETWEEN OCTOBER 15 TO MAY 1.
- ALL WORK AREAS AND ACCESS FOR CONSTRUCTION SHALL BE MATTED. WORK SHALL REMAIN ENTIRELY ON MATTED WORK SURFACES. MATTING TO BE IN PLACE ONLY BETWEEN OCTOBER 15 TO MAY 1. IF MATTING MUST UNAVOIDABLY BE USED BETWEEN MAY 1 AND OCTOBER 15, THEY MAY ONLY BE IN PLACE FOR UP TO FOR CONSECUTIVE WEEKS DURING THIS PERIOD. REMOVE MATTING IMMEDIATELY AFTER THE INSTALLATION OF THE STRUCTURE.
- OVERHEAD WORK MUST BE CONDUCTED ON FOOT OR THROUGH AERIAL MEANS.
- VEGETATION MANAGEMENT, PLACEMENT OF MATTING, INSTALLATION OF E&S CONSTROLS, DRILLING, STRUCTURE INSTALLATION ACTIVITIES, AND THE REMOVAL OF MATTING SHALL BE CONDUCTED UNDER THE GUIDANCE OF A QUALIFIED SCIENTIST.

GENERAL:


- PRIOR TO THE INITIATION OF WORK, CONTRACTORS WILL BE BRIEFED ON THE APPROVED AVOIDANCE AND MITIGATION MEASURES. GUIDANCE WILL BE REFINED BASED ON THE TIMING OF THE WORK AS DESCRIBED BELOW.
- PRIOR TO THE INITIATION OF WORK, FLAG THE LOCATIONS OF EXISTING POPULATIONS AND ANY NEWLY OBSERVED PLANTS, THEN INSTALL EXCLUSION FENCING (ORANGE SNOW FENCING) TO PROTECT EXISTING POPULATIONS OUTSIDE OF THE PROPOSED WORK AREA OR ACCESS ROUTE
- AN ENVIRONMENTAL MONITOR WILL BE PRESENT TO OBSERVE ANY ACCESS OR WORK AREA PREPARATION OR EARTH DISTURBANCE.
- INSTALL STRAW WATTLES, OR SIMILAR MEASURE, ALONG THE ROADSIDE SHOULDER PRIOR TO THE REMOVAL OF GUARD RAILS OR DISTRIBUTION POLE RELOCATION (IF NECESSARY) UPGRADIENT OF IDENTIFIED PLANTS.
- INSTALL SILTATION DEVICES SUCH AS SILT FENCING OR STRAW BALES TO CONTAIN SEDIMENT DURING STRUCTURE DRILLING AND CONCRETE POURING.
- DURING TREE REMOVAL REQUIRING ACCESS FROM SHELTER ROCK ROAD, PERFORM WORK ON FOOT AND AVOID DRAGGING TIMBER ACROSS THE MAPPED POPULATION.
- DURING CONSTRUCTION MAT INSTALLATION, AVOID PHYSICAL DISTURBANCE TO THE SOILS WHERE PLANTS ARE LOCATED. SPAN POPULATIONS TO THE EXTENT PRACTICABLE.
- A MONITOR WILL ASSESS PRE-AND POST-CONSTRUCTION POPULATIONS EITHER THROUGH STEM COUNTS, OR THROUGH A VISUAL ASSESSMENT OF THE EXTENT OF LAND OCCUPIED BY THE SPECIES.

FOR CONSTRUCTION ACTIVITIES DURING THE ACTIVE SEASON (MAY 1 TO OCTOBER 15):

- AN ENVIRONMENTAL MONITOR CAPABLE OF ACCURATELY IDENTIFYING THE SPECIES WOULD MONITOR THE INSTALLATION OF TIMBER MATS, TREE REMOVAL, SHRUB TRIMMING, DRILLING, AND SITE RESTORATION.
- LIMIT CONSTRUCTION MAT PLACEMENT FOR UP TO A 4-WEEK DURATION WITHIN THE GROWING SEASON. IF A LONGER DURATION IS NECESSARY, A PLANT RELOCATION PLAN WOULD BE DEVELOPED IN COORDINATION WITH CT NDDB.

RARE SPECIES AVOIDANCE AND MINIMIZATION MEASURES
PENDING ONGOING CONSULTATIONS WITH CT DEEP NDDB


** Species names not provided to general public in order to protect the integrity of threatened and endangered species locations.*

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Rare Plant Avoidance and Minimization Measures Map

(REDACTED TO PROTECT SPECIES LOCATION)

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RARE SPECIES AVOIDANCE AND MINIMIZATION MEASURES - ANIMAL

[REDACTED] *

[REDACTED] *

SPECIES DESIGNATION: SPECIAL CONCERN (BOTH)

PROJECT ROW HABITAT:

- CONTACT EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING

SITE-SPECIFIC IMPACT AVOIDANCE AND MINIMIZATION MEASURES:

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 [REDACTED], 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 [REDACTED] 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.
- IN PROJECT ROW HABITAT, INSTALL MATTING SPANS TO PROVIDE CROSSING LOCATIONS FOR THE SPECIES.

FOR CONSTRUCTION ACTIVITIES DURING THE [REDACTED]'S INACTIVE SEASON (OCTOBER 1 TO MARCH 30):

- 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 [REDACTED]'S ACTIVE SEASON (APRIL 1 TO SEPTEMBER 30):

- 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.

[REDACTED] *

SPECIES DESIGNATION: SPECIAL CONCERN

PROJECT ROW HABITAT:

- CONTACT EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING

SITE-SPECIFIC IMPACT AVOIDANCE AND MINIMIZATION MEASURES:

GENERAL:

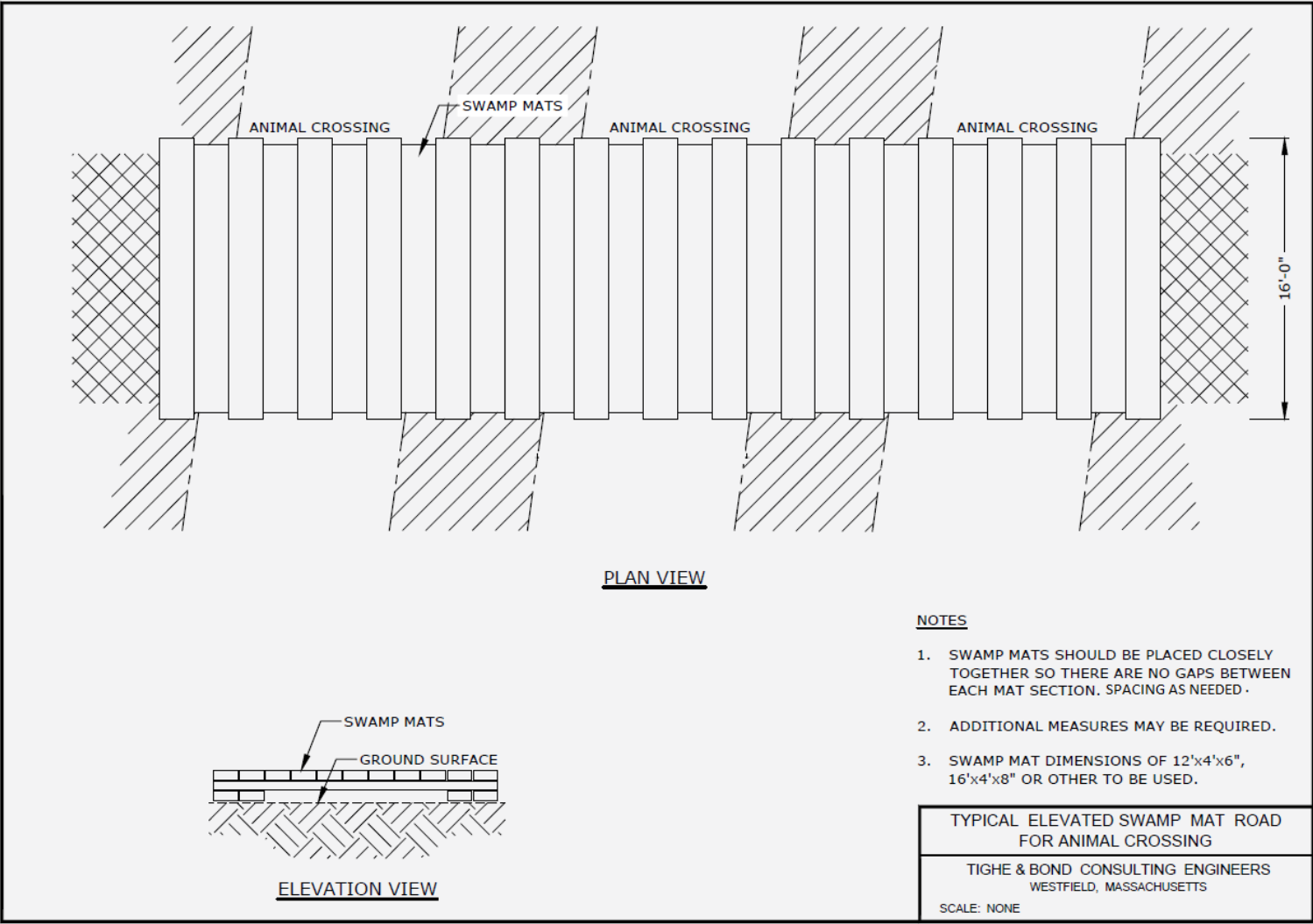
- A CONTRACTOR AWARENESS PROGRAM WILL BE DEVELOPED AND IMPLEMENTED TO ENSURE THAT CONTRACTORS WORKING IN THE AREA HAVE BEEN INSTRUCTED ON THE PROPER RESPONSE IN THE EVENT THAT A [REDACTED] IS OBSERVED IN THE WORK AREA.
- THE REMOVAL OF LOW-GROWTH VEGETATION AND TREE STUMPS ADJACENT TO THE BANKS OF IDENTIFIED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

FOR CONSTRUCTION ACTIVITIES IN PROJECT ROW HABITAT DURING THE [REDACTED]'S ACTIVE SEASON (MARCH 1 TO NOVEMBER 1):

- A SWEEP OF THE WORK AREAS NEAR PROJECT ROW HABITAT 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 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



RARE SPECIES AVOIDANCE AND MINIMIZATION MEASURES PENDING ONGOING CONSULTATIONS WITH CT DEEP NDDB

* Species names not provided to general public in order to protect the integrity of threatened and endangered species locations.

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SOIL EROSION AND SEDIMENT CONTROL DETAILS

SOIL EROSION AND SEDIMENT CONTROLS

EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES WILL BE INSTALLED IN CONJUNCTION WITH VEGETATION CLEARING AND/OR ACCESS ROAD CONSTRUCTION AND WILL BE MAINTAINED THROUGHOUT PROJECT CONSTRUCITON 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 E&SC ([HTTP://WWW.CT.GOV/DEEP/LIB/DEEP/WATER_INLAND/SESC/SECS_CHAPTER_1_5.PDF](http://www.ct.gov/deep/lib/deep/water_inland/sesc/secs_chapter_1_5.pdf)), WITH EVERSOURCE’S 2016 BMP MANUAL (SEE D&M PLAN VOLUME 3, ATTACHMENT E), AS WELL AS WITH CT DEEP AND USACE PERMIT CONDITIONS. THE FOLLOWING ARE OBJECTIVES OF THE E&S MEASURES:


- A. INSTALL AND MAINTAIN E&S MEASURES DURING CONSTRUCTION; PROTECTING WATER RESOURCE AREAS DURING CONSTRUCTION;
- B. PROTECT WATER RESOURCE AREAS DURING CONSTRUCTION;
- C. MINIMIZE THE QUANTITY AND DURATION OF SOIL EXPOSURE (STABILIZE EXPOSED SOILS AS REQUIRED UPON COMPLETION OF GRADING OR STOCKPILING); AND,
- D. INSPECT THE WORK AREAS AND MAINTAIN E&S CONTROLS, AS NECESSARY, UNTIL FINAL STABILIZATION IS 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 E&S CONTROLS FOR SITE-SPECIFIC AREAS MAY INCLUDE:

- A. SIZE OF THE AREA AFFECTED;
- B. TYPE OF PLANNED CONSTRUCTION ACTIVITIES;
- C. TYPE AND TEXTURE OF SOIL (E.G. PRESENCE OF HIGHLY ERODIBLE SOILS, WHERE APPLICABLE);
- 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; AND,
- H. ANTICIPATED WEATHER CONDITIONS AND GROUND CONDITIONS.

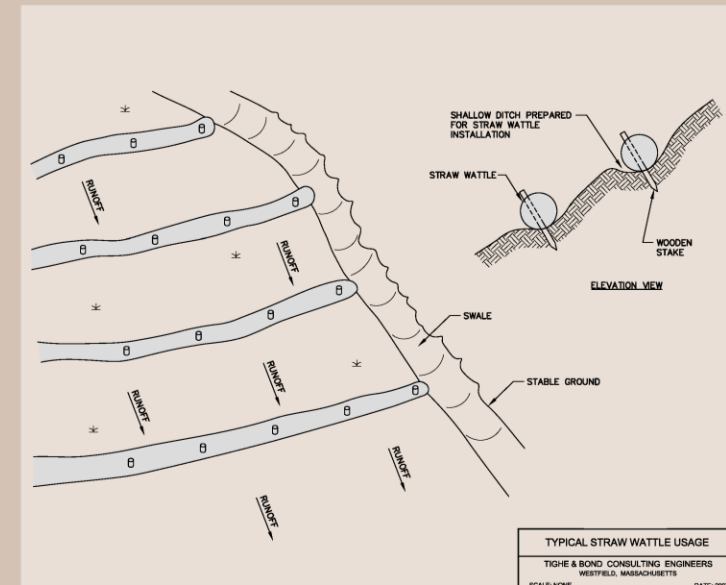
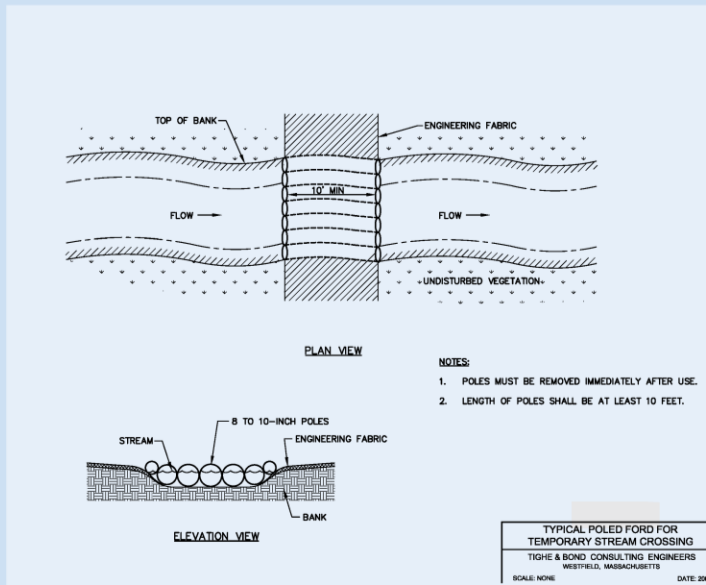
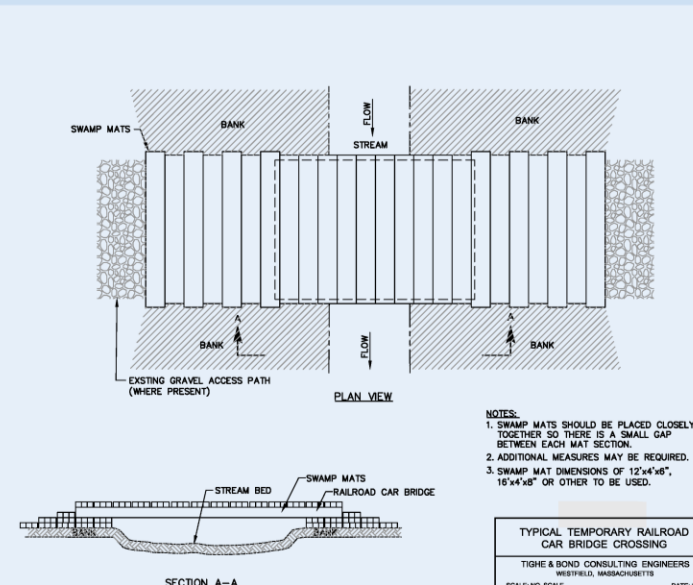
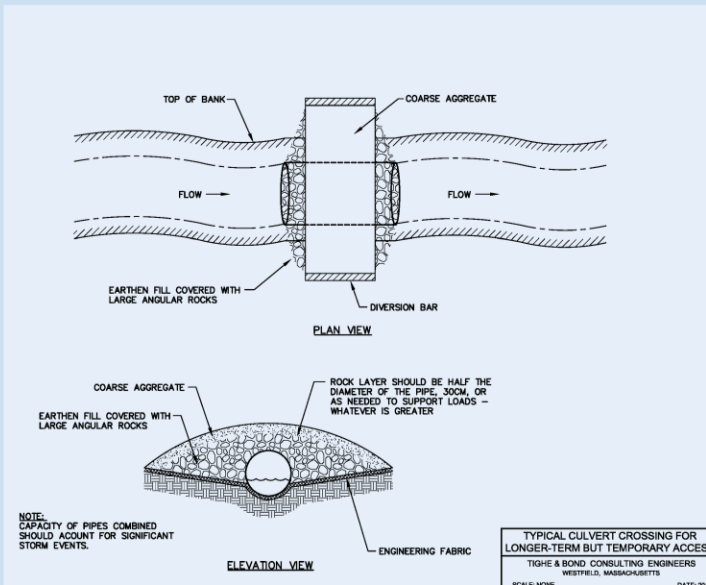
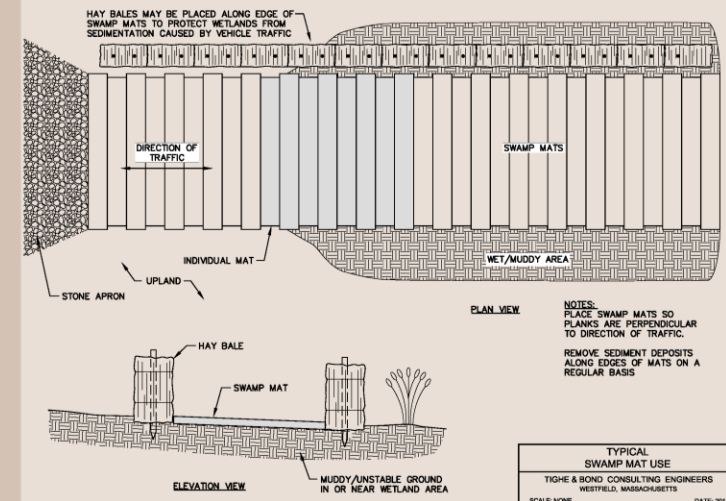
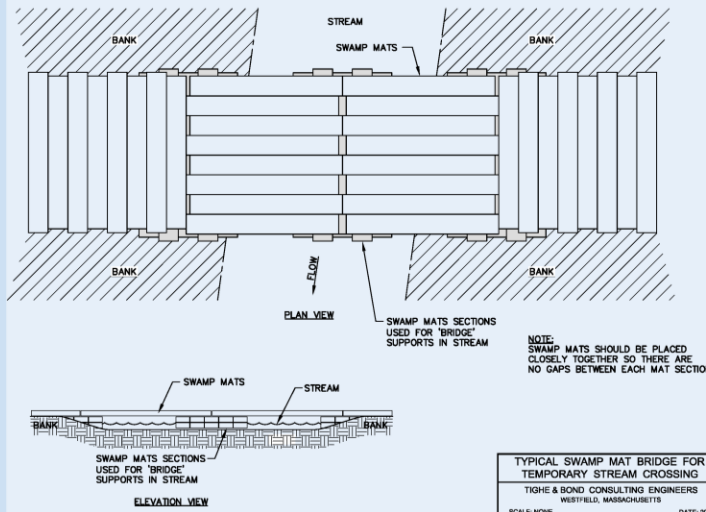
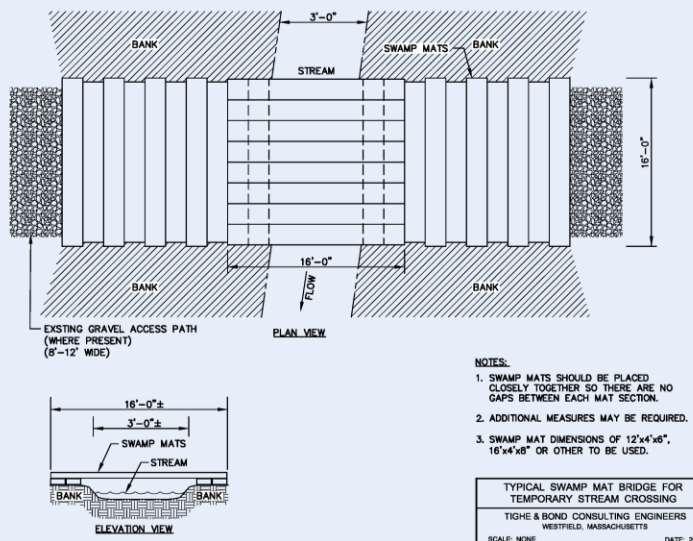
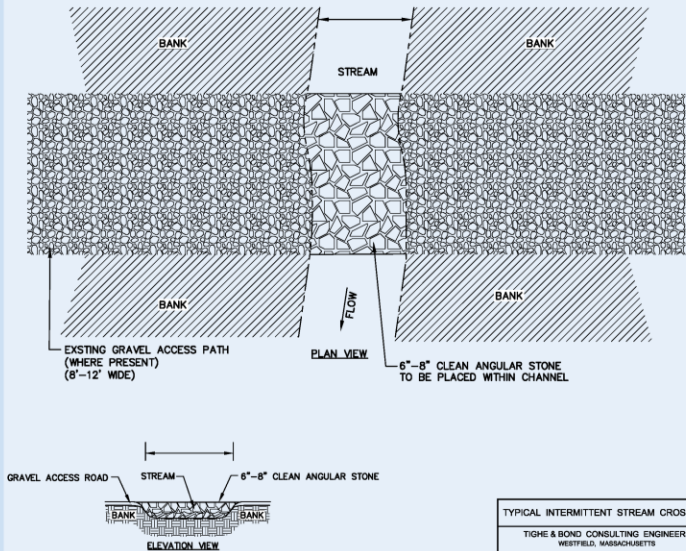
SOIL EROSION AND SEDIMENT CONTROL NOTES


- ALL E&S CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF EVERSOURCE 2016 BMP MANUAL AND THE “2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL”, CT DEEP BULLETIN NO. 34, AND ALL AMENDMENTS AND ADDENDA THERETO AS PUBLISHED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.
- LAND DISTURBANCE SHALL BE KEPT TO THE MINIMUM NECESSARY FOR CONSTRUCTION, AS DEPICTED ON THE PROJECT MAPS.
- INSTALL EROSION AND E&S AS NECESSARY, TO PREVENT SOIL EROSION AND SEDIMENT TRANSPORT TO RESOURCE AREAS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSESS THE NEED FOR, AND INSTALL ADDITIONAL CONTROLS THAT ARE WARRANTED BY SITE CONDITIONS.
- RETAINING WALLS MAY BE REQUIRED IN SOME LOCATIONS 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.
- UPON COMPLETION OF CONSTRUCTION, IT IS THE CONTRACTORS RESPONSIBILITY TO REMOVE RETAINING WALLS AND REGRADE AND STABILIZE SLOPES IN COMPLIANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR E&SC.
- EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS SHALL BE CONDUCTED WEEKLY DURING CONSTRUCTION AND AFTER EACH 0.25” RAINSTORM AND/OR FOLLOWING MAJOR STORM EVENTS TO DETERMINE IF ALL CONTROL MEASURES ARE FUNCTIONING PROPERLY AND IF CORRECTIVE ACTIONS ARE REQUIRED. INSPECTIONS WILL CONTINUE UNTIL SITES ARE STABILIZED AND 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
- SEDIMENT COLLECTED BY E&S CONTROLS SHALL BE PERIODICALLY REMOVED AND PROPERLY DISPOSED OF IN AN APPROPRIATE UPLAND AREA.
- STOCKPILE TOPSOIL IN LEVEL UPLAND AREAS AND CONTAIN USING APPROPRIATE E&S CONTROLS AROUND THE PERIMETER.
- 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.
- 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.
- WHERE NECESSARY, SUITABLE TOPSOIL, SEEDBED PREPARATION, AND WATER SHALL BE PROVIDED FOR EFFECTIVE ESTABLISHMENT OF VEGETATIVE COVER.
- THE CONSTRUCTION CONTRACTOR SHALL KEEP ALL PAVED ROADWAYS CLEAN. CONSTRUCTION ENTRANCE TRACK PADS SHALL BE INSTALLED AT THE INGRESS/EGRESS TO PAVED ROADWAYS, EXCEPT IN RARE SPECIES HABITAT OR WETLAND RESOURCE AREAS, TO REDUCE SEDIMENT TRACKING. TRACK PADS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION BY REPLACING OR REPLENISHING, AS NECESSARY, WITH CLEAN STONE. TRACKED SEDIMENT ON PAVED SURFACES SHALL BE SWEEPED CLEAN BY THE END OF EACH WORK DAY.
- EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AND MAINTAINED UNTIL REVEGETATION AND STABILIZATION 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. BASED ON THE RESULTS OF POST-CONSTRUCTION INSPECTIONS OF ROW STABILIZATION, EVERSOURCE WILL DETERMINE THE APPROPRIATE TIMEFRAME FOR REMOVING TEMPORARY EROSION CONTROLS.

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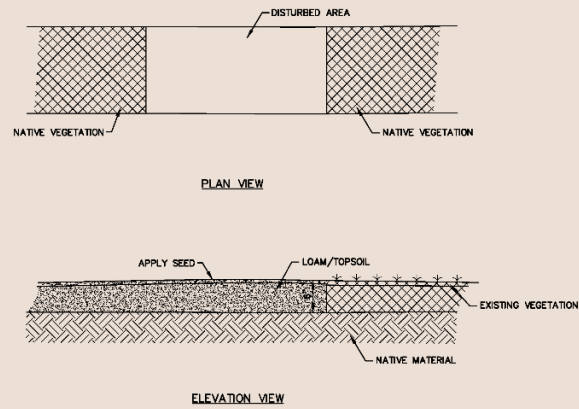
STREAM CROSSING TYPICAL DETAILS



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EROSION AND SEDIMENTATION CONTROL TYPICAL DETAILS

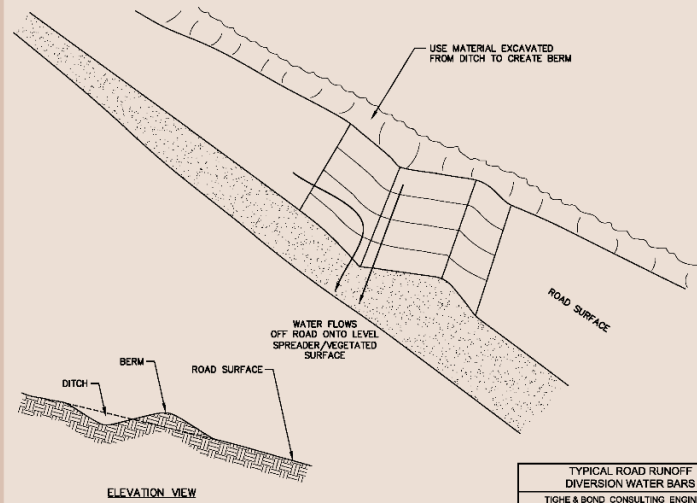


NOTE:

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

LOAMING AND SEEDING

TIGHE & BOND CONSULTING ENGINEERS
WESTFIELD, MASSACHUSETTS
SCALE: NONE
DATE: 2007

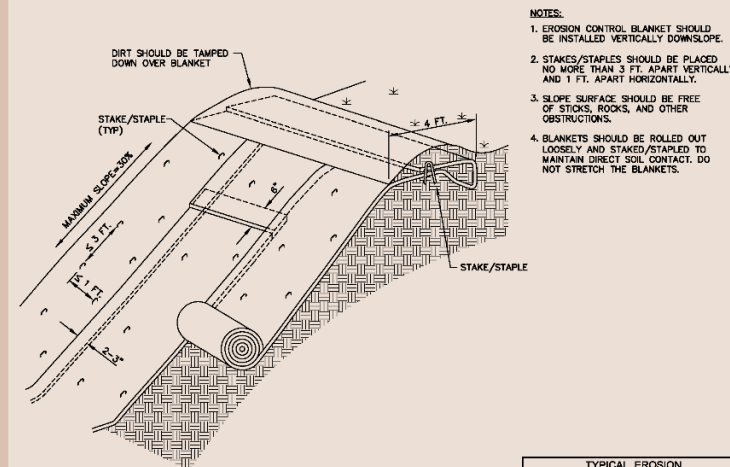


TYPICAL ROAD RUNOFF DIVERSION WATER BARR

TIGHE & BOND CONSULTING ENGINEERS
WESTFIELD, MASSACHUSETTS

SCALE: NONE

DATE: 2007



NOTES:

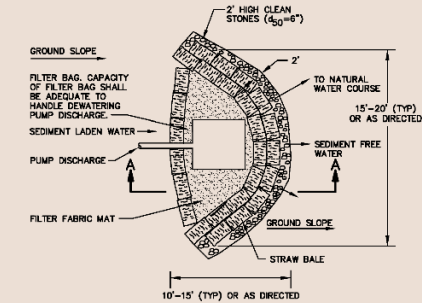
1. EROSION CONTROL BLANKET SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
2. STAKES/STAPLES SHOULD BE PLACED NO MORE THAN 3 FT. APART VERTICALLY AND 1 FT. APART HORIZONTALLY.
3. SLOPE SURFACE SHOULD BE FREE OF STICKS, ROCKS, AND OTHER OBSTRUCTIONS.
4. BLANKETS SHOULD BE ROLLED OUT LOOSELY AND STAKED/STAPLED TO MAINTAIN DIRECT SOIL CONTACT. DO NOT STRETCH THE BLANKETS.

TYPICAL EROSION

TIGHE & BOND CONSULTING ENGINEERS
WESTFIELD, MASSACHUSETTS

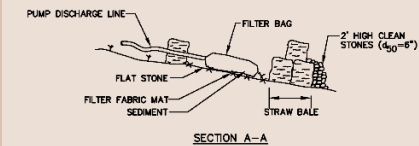
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DATE: 20



NOTES:

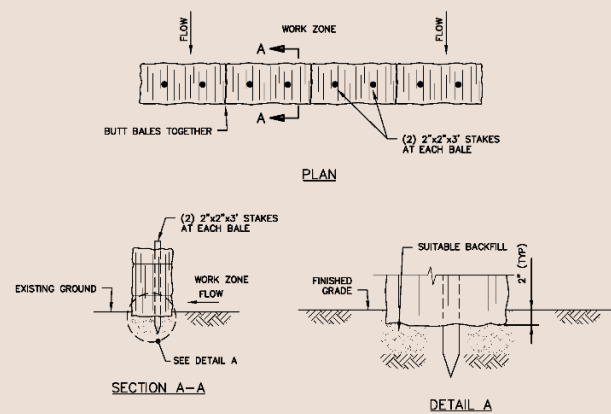
1. LOCATION OF SEDIMENT TRAP SUBJECT TO APPROVAL OF ENGINEER.
2. SEDIMENT TRAPS OR SETTLING BASINS SHALL BE USED FOR CONSTRUCTION DEWATERING.
3. DISCHARGE AWAY FROM WORK AREA/DEWATERING AREA.



TYPICAL
SEDIMENT TRAP

TIGHE & BOND CONSULTING ENGINEERS
WESTFIELD, MASSACHUSETTS

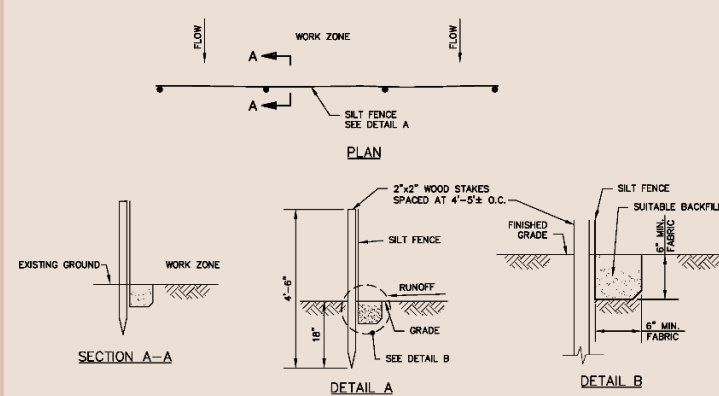
SCALE: NONE DATE: 2011



NOTE:
STRAW BALES MAY BE SUBSTITUTED FOR HAY BALES.

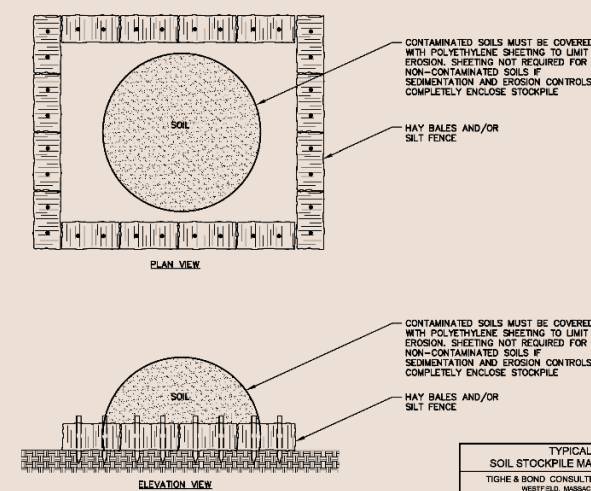
TYPICAL

TIGHE & BOND CONSULTING ENGINEERS
WESTFIELD, MASSACHUSETTS



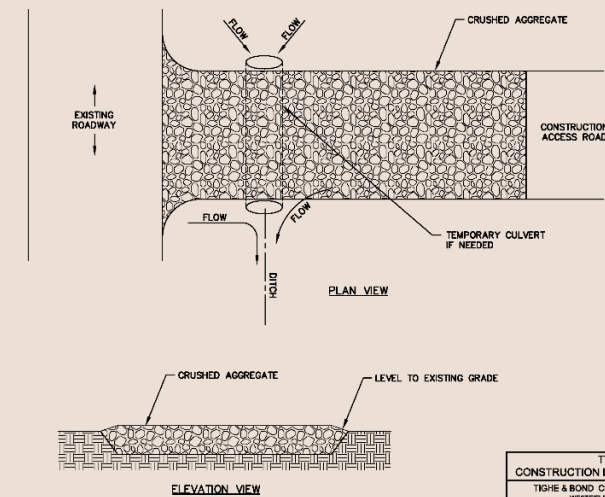
TYPICAL

TIGHE & BOND CONSULTING ENGINEERS
WESTFIELD, MASSACHUSETTS





TYPICAL SOIL STOCKPILE MANAGEMENT

TIGHE & BOND CONSULTING ENGINEERS
WESTFIELD, MASSACHUSETTS
SCALE: NONE
DATE: 20

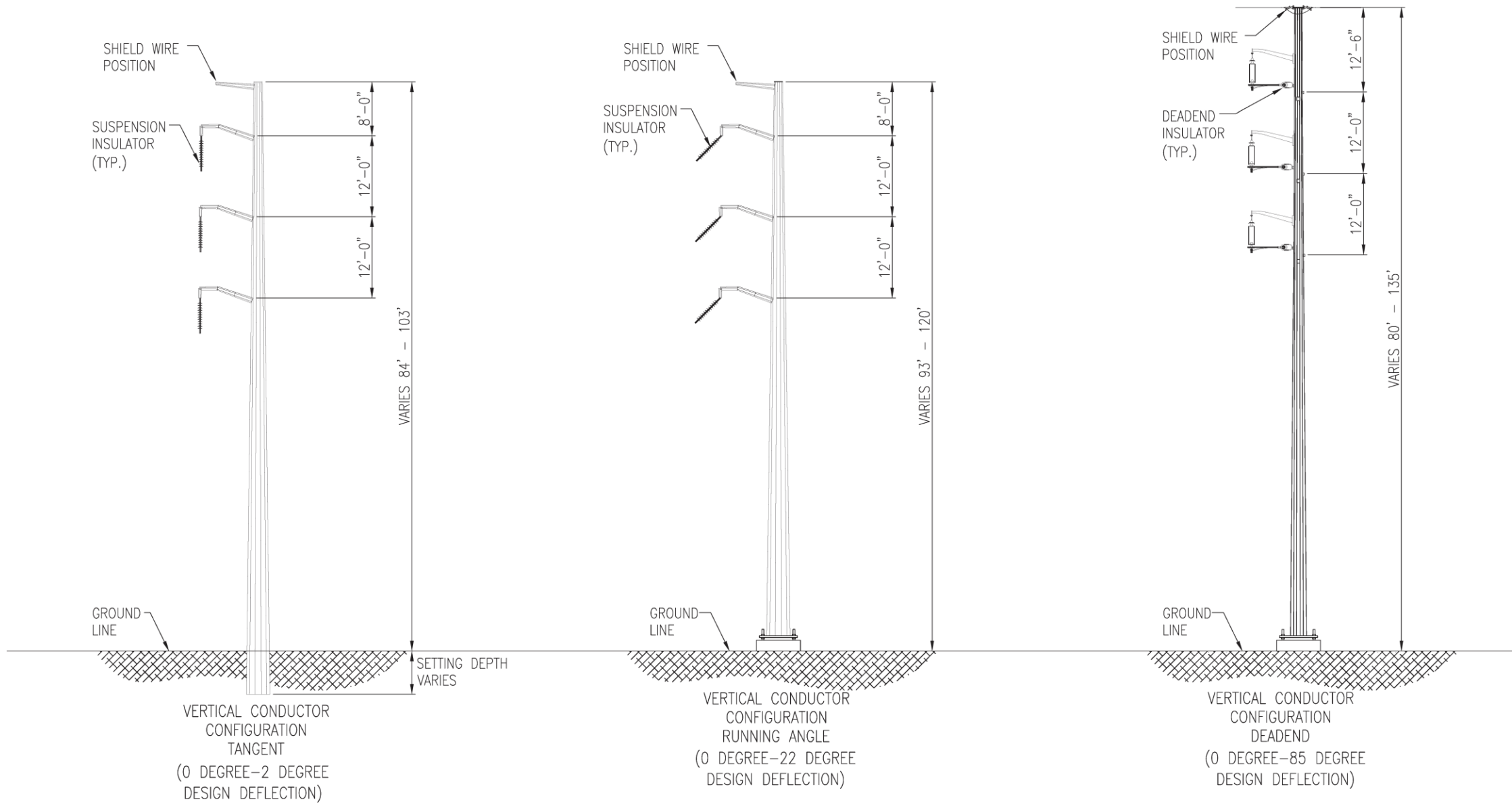


TYPICAL

TIGHE & BOND CONSULTING ENGINEERS
WESTFIELD, MASSACHUSETTS

							
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NOTES:


1. STRUCTURES SHOWN DEPICT STEEL POLE CONSTRUCTION.
2. TANGENT STRUCTURES MAY UTILIZE DRILLED PIER OR DIRECT EMBED FOUNDATIONS WHERE FEASIBLE.
3. STRUCTURE GROUNDING EQUIPMENT NOT SHOWN.

NOT TO SCALE

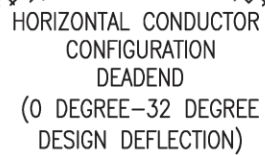
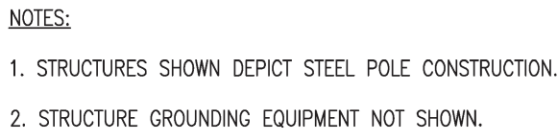
PRELIMINARY DESIGN

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REVISONS DURING CONSTRUCTION									
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<p style="text-align: center;">PLUMTREE SS. - BROOKFIELD JCT. VERTICAL CONDUCTOR CONFIGURATION FAMILY OF STRUCTURES BETHEL/DANBURY/BROOKFIELD CT</p>									
BY	CA/KSC	CARD	CA/RLF	APP	CA/GTD	APP			
DATE	11/23/15	DATE	11/23/15	DATE	11/23/15	DATE			
W-SKID	N.T.S.	SIZE	D	FIELD BOOK & INDEX					
W-SKID	N.T.S.	YES		E.L. INFO					
E.L. FINAL NUMBER				DWG NO.		STR ASSY SKETCH			

										EVERSOURCE
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PRELIMINARY DESIGN

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										STRASSY SKETCH 									

							
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-
- Diagram illustrating the continuous gradient control ring for a steel pole foundation. The diagram shows a cross-section of the foundation with concentric rings and anchor bolts. Key components and connections are labeled:
- CONTINUOUS GRADIENT CONTROL RING OF 3 #8 COPPERWELD (CAT. ID. 177820) BURIED 18" BELOW GRADE AND 2'-0" FROM FACE OF FOUNDATION.**
 - ANCHOR BOLTS**
 - SPOKES ARE CONNECTED FROM GRADIENT CONTROL RING TO GROUNDING NUT ON STEEL POLE. FOUNDATION CONTRACTOR SHALL LEAVE A TAIL ABOVE THE FINISHED FOUNDATION WHICH IS SUFFICIENT TO CONNECT TO GROUNDING LUG.**
 - CONNECTIONS BETWEEN SPOKES AND ENDS OF RING MAY BE EITHER EXOTHERMIC WELD OR PARALLEL GROOVE CONNECTOR (CAT ID 179043) OR SHEAR HEAD, VICE-TYPE (CAT ID 179287).**
 - REINFORCING BARS**
 - #3 REINFORCING BAR WELDED TO ONE VERTICAL REINFORCING BAR AND TO ONE ANCHOR BOLT.**
 - CONNECTIONS BETWEEN SPOKES AND ENDS OF RING MAY BE EITHER EXOTHERMIC WELD OR PARALLEL GROOVE CONNECTOR (CAT ID 179043) OR SHEAR HEAD, VICE-TYPE (CAT ID 179287).**

PLAN VIEW




DRILLED SHAFT FOUNDATIONS FOR STEEL POLES



DIRECT EMBED WITH CAN FOR STEEL & WOOD POLES

- LEGEND

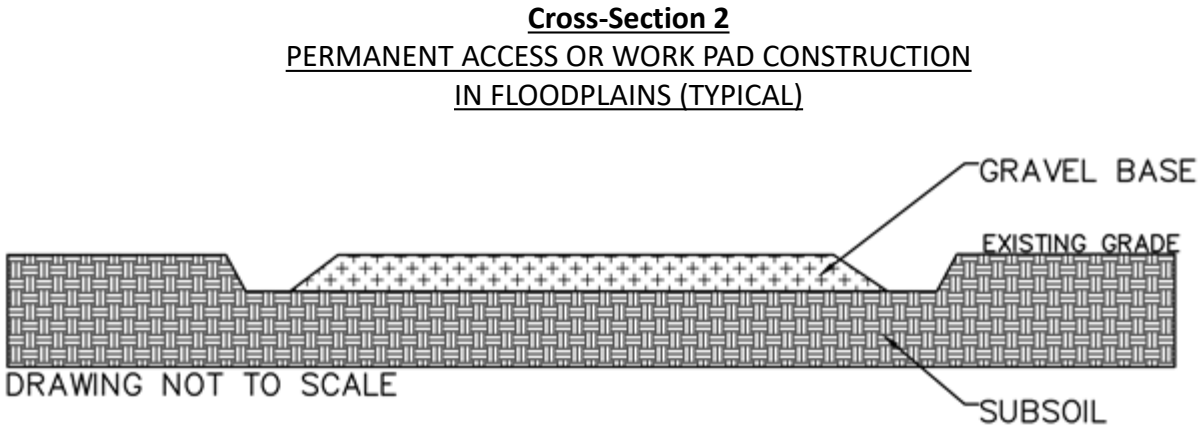
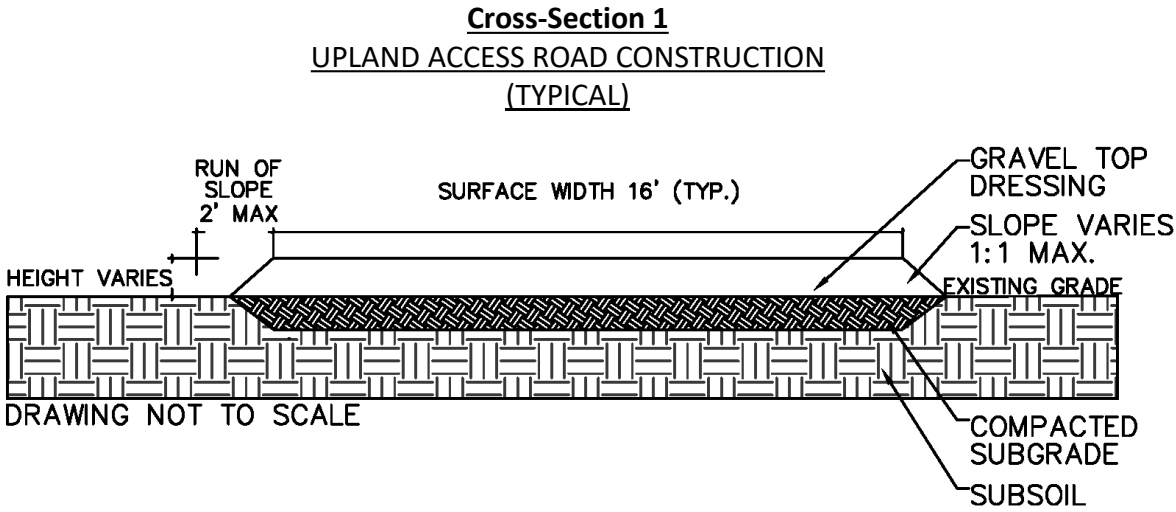
————— STRUCTURE (STEEL POLE)

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ACCESS ROAD DETAILS

TYPICAL ROAD DETAILS AND TYPICAL FLOODPLAIN ROAD DETAIL



NOTES:

- DETAIL ABOVE ILLUSTRATES A TYPICAL ACCESS ROAD IN UPLANDS WHERE OTHER RESTRICTIONS OR MINIMIZATIONS MEASURES DO NOT APPLY.
- CONSTRUCT ROADS TO THE MINIMUM WIDTH, UNLESS INDICATED OTHERWISE.
- 1. ACCESS ROADS SHOULD NOT EXCEED 16-FEET IN WIDTH ON THE TRAVELED SURFACE UNLESS SPECIFIED OTHERWISE ON MAPPING. FILL MATERIAL SLOPING OUTWARD FROM THE TRAVELLED SURFACE OF THE GRAVEL ROAD MAY INCREASE THE FOOTPRINT OF FILL AND MAY ADD UP TO 2 FEET ON EITHER SIDE OF THE ROAD (TOTAL OF 20-FOOT WIDTH).
 - 2. ACTUAL DIMENSIONS MAY VARY DEPENDING ON SITE CONSTRAINTS AND TOPOGRAPHY. ROAD SHOULDERS AT TURNING POINTS OR AT THE INGRESS/EGRESS OF AN ACCESS ROAD ARE ALSO DEPICTED ON MAPPING AS WIDER THAN 20 FEET. SOME AREAS OF STEEP TOPOGRAPHY ARE DEPICTED WITH AN ADDITIONAL LIMIT OF DISTURBANCE.
 - 3. CRUSHED STONE APRONS, CONSISTENT WITH EVERSOURCE’S 2016 BMP MANUAL, SHALL BE INSTALLED ALONG ACCESS ROADS AT THE INTERSECTION WITH PAVED SURFACES, SUCH AS PUBLIC ROADS, EXCLUDING LOCATIONS WHERE TEMPORARY CONSTRUCTION MATTING IS NECESSARY (I.E. WETLANDS OR AS IDENTIFIED IN RARE SPECIES BMPS).

RESTORATION OF ALL ROADS POST-CONSTRUCTION

PERMANENT ON-ROW ACCESS ROADS, TURNING AREAS, AND ANY EXCESS SHOULDER AREAS WILL BE PULLED BACK TO APPROXIMATELY 16 FEET IN WIDTH, UNLESS REQUIRED TO REMAIN DUE TO SITE GRADES. ACCESS ROADS THAT HAD TO BE WIDER TO ACCOMMODATE CONSTRUCTION EQUIPMENT WILL BE RE-GRADED OR OTHERWISE RESTORED (E.G. GRAVEL ROAD MATERIAL WILL BE REMOVED) TO ACHIEVE A WIDTH OF APPROXIMATELY 16 FEET UNLESS OTHERWISE REQUESTED BT THE LANDOWNER.

NOTES:

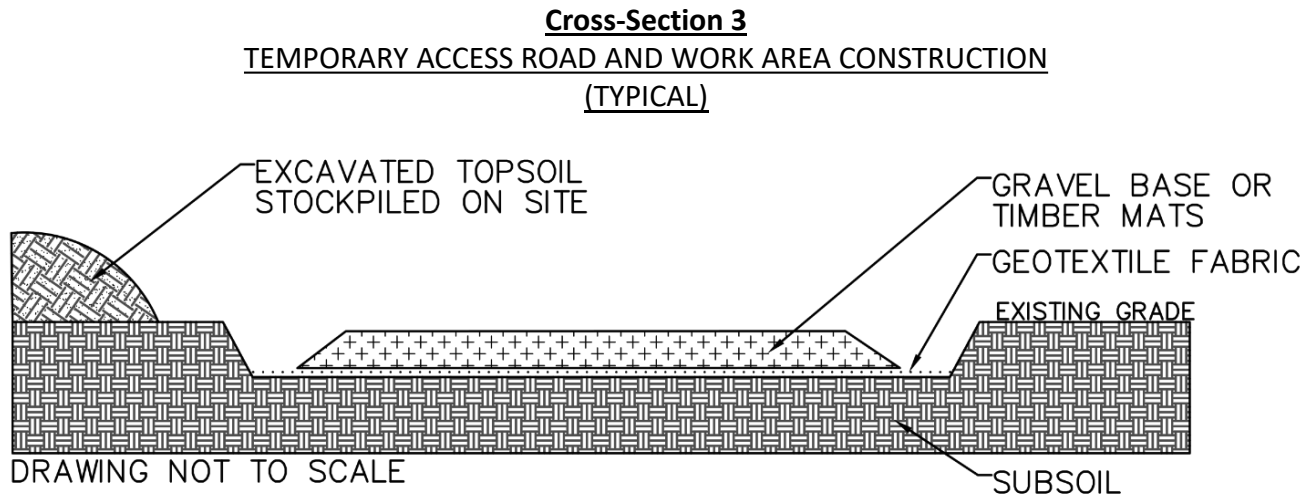
- TEMPORARY CONSTRUCTION MATTING SHALL BE USED IN THE REGULATORY FLOODWAY, IN WETLANDS, OR USED TO SPAN WATERCOURSES.
- POST-CONSTRUCTION, ALL GRADES WITHIN THE 100-YEAR FLOODPLAIN AND REGULATORY FLOODWAY MUST BE RESTORED TO BE AT OR BELOW PRE-CONSTRUCTION CONTOURS.
- REFER TO DETAIL SHEETS 9 A&B FOR THE PROPOSED FLOODPLAIN COMPENSATION DETAILS AND GRADING PLAN. ELEVATIONS AND CONTOURS FOR THE GRAVEL ACCESS ROAD TO THE NORTH OF STRUCTURE 1008 IS ALSO DEPICTED.
- ACCESS ROADS AND WORK AREAS MAY BE CONSTRUCTED AS DEPICTED ABOVE AND DESCRIBED BELOW, OR MAY BE CONSTRUCTED WITH TEMPORARY CONSTRUCTION MATS:
- 1. FOR GRAVEL WORK AREAS OR ACCESS ROUTES IN UPLANDS WITHIN THE 100-YEAR FLOODPLAIN, INTENDED TO BE LEFT IN PLACE, PREPARE SURFACE BY OVER-EXCAVATING THE EXISTING MATERIAL AND BACKFILL TO THE EXISTING GRADE. EXCESS SEDIMENT SHALL BE REMOVED FROM THE SITE OR SPREAD OUTSIDE OF THE 100-YEAR FLOODPLAIN IN UPLANDS. WORK AREAS CONSTRUCTED AT OR BELOW THE EXISTING GRADE MAY REMAIN IN PLACE POST-CONSTRUCTION.
 - 2. IF PREPARED SURFACES IN UPLANDS SHALL BE CONSTRUCTED ABOVE THE EXISTING GRADES DUE TO SITE CONSTRAINTS, GEOTEXTILE FABRIC SHOULD BE INSTALLED BELOW THE GRAVEL FILL MATERIAL. AFTER THE COMPLETION OF WORK, FILL MATERIAL IN EXCESS OF THE PRE-EXISTING GRADES AND CONTOURS SHOULD BE REMOVED AND TRANSPORTED FROM THE SITE OR SPREAD OUTSIDE OF THE 100-YEAR FLOODPLAIN IN UPLANDS.
 - 3. ALTERNATIVELY, TEMPORARY CONSTRUCTION MATTING MAY ALSO BE USED IN THE 100-YEAR FLOODPLAIN.

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ACCESS ROAD DETAILS

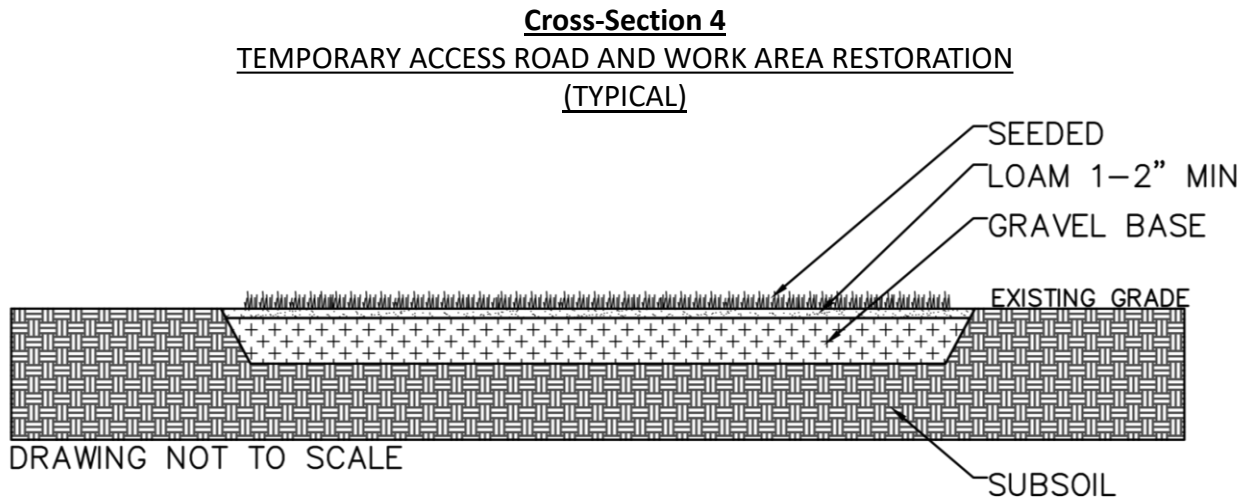
TEMPORARY GRAVEL ACCESS ROAD AND WORK AREA OPTIONS



NOTES:

DETAIL ABOVE ILLUSTRATES ACCESS ROAD OR WORK AREA CONSTRUCTION IF MATTING IS NOT USED. THIS OPTION MAY BE PREFERABLE FOR LAWN AREAS IN ORDER TO PRESERVE EXISTING TOPSOIL


1. EXCAVATE TOPSOIL AND TEMPORARILY STOCKPILE ADJACENT TO THE PREPARED SURFACE, APPLY SEED AND STRAW MULCH FOR STABILIZATION.
2. INSTALL GEOTEXTILE FABRIC AND BACKFILL THE EXCAVATED AREA WITH GRAVEL FILL MATERIAL.
3. AFTER THE COMPLETION OF WORK, REMOVE GRAVEL FILL MATERIAL AND ANY TEMPORARY MATTING, GEOTEXTILE FABRIC, OR SILT FENCING AND REMOVE FROM THE SITE. BACKFILL EXCAVATED AREA WITH THE STOCKPILED TOPSOIL AND STABILIZE WITH STRAW MULCH AND A LAWN SEED MIX.
4. ALTERNATIVELY, CONSTRUCT WORK AREAS AND ACCESS ROADS WITH TEMPORARY CONSTRUCTION MATTING. UPON REMOVAL OF MATTING RESTORE SITE TO PRE-EXISTING CONDITIONS.



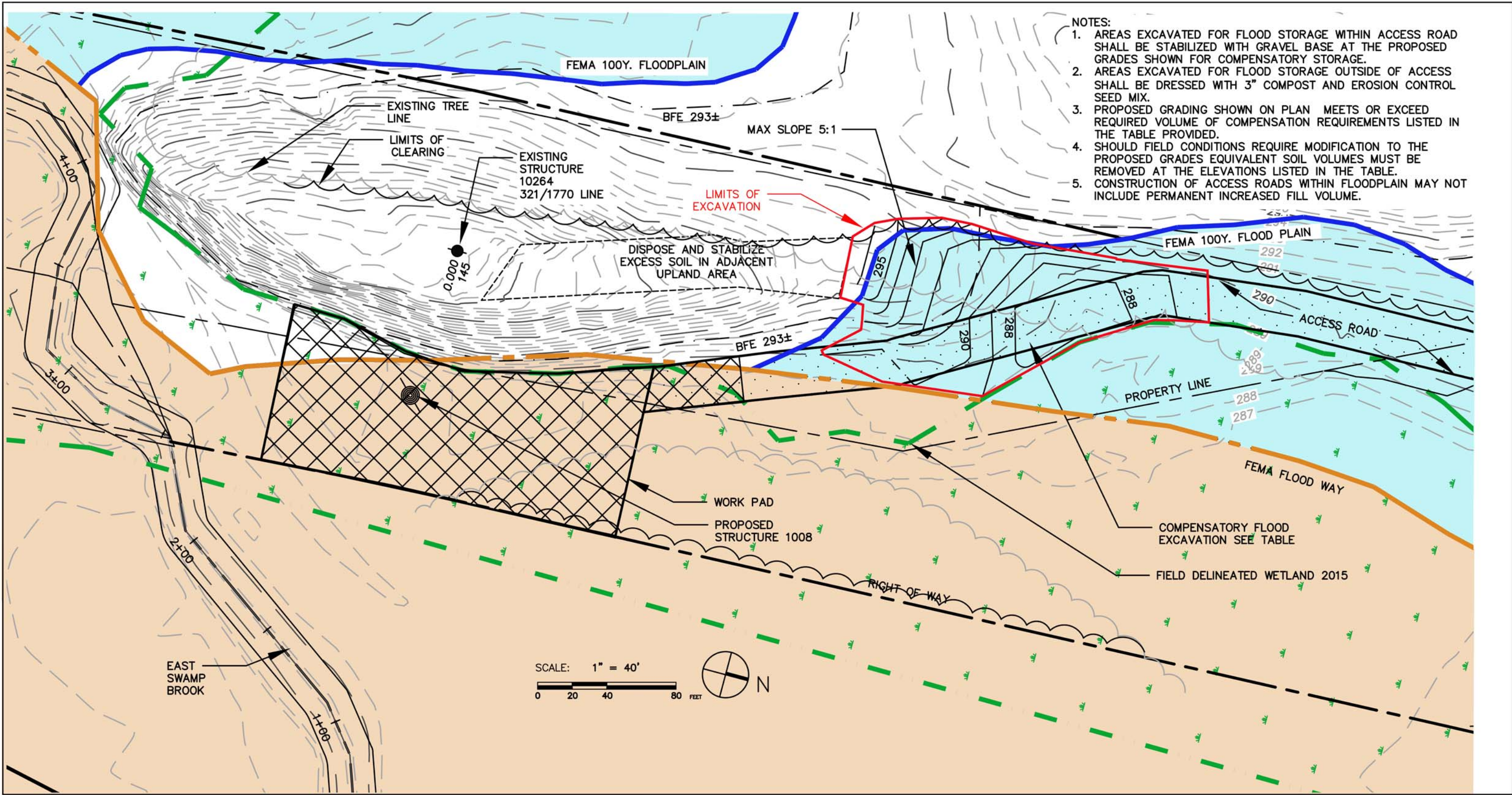
NOTES:

DETAIL ABOVE ILLUSTRATES ACCESS ROAD OR WORK AREA CONSTRUCTION IF MATTING IS NOT USED. THIS OPTION MAY BE PREFERABLE FOR TEMPORARY GRAVEL FILL IN NON-LAWN AREAS.

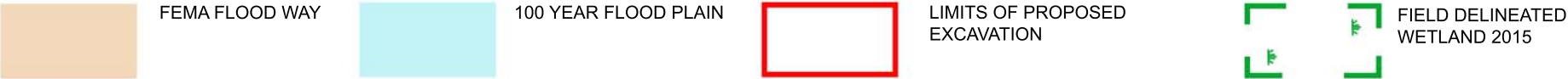
1. EXCAVATE PROPOSED ACCESS ROAD OR WORK AREA AND BACKFILL WITH GRAVEL FILL MATERIAL TO THE EXISTING GRADE OR JUST BELOW THE EXISTING GRADE. IF TOPSOIL IS PRESENT, IT MAY BE STOCKPILED ADJACENT TO THE ACCESS ROAD/ WORK SURFACE (WITHIN THE LIMITS OF VEGETATION MANAGEMENT DEPICTED) TO BE USED FOR RESTORATIONS (SEE EXAMPLE TO THE LEFT).
2. AFTER THE COMPLETION OF WORK, REMOVE ENOUGH MATERIAL FROM THE ROAD SURFACE SUCH THAT APPROXIMATELY 1-2 INCHES OF LOAM MAY BE APPLIED TO MEET THE PRE-EXISTING GRADES., REMOVE EXCESS MATERIAL FROM THE SITE. BACKFILL EXCAVATED AREA WITH 1-2 INCHES OF LOAM TO MEET THE ADJACENT GRADES AND STABILIZED WITH STRAW MULCH AND SEED.
3. ALTERNATIVELY, CONSTRUCT WORK AREAS AND ACCESS ROADS WITH TEMPORARY CONSTRUCTION MATTING. UPON REMOVAL OF MATTING RESTORE SITE TO PRE-EXISTING CONDITIONS.

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FLOODPLAIN COMPENSATION DETAIL - GRADING PLAN



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