

**LEGEND:**

- X104 LINE:
- X104 STR:

1	ISSUED TO PUC	12/20	SEK	GEL	BRS	
DWG REV	EPN/DESCRIPTION	CONT/PE	DATE	DRN	CHKD	APPR

# EVERSOURCE ENERGY

T	1
DRAWN	
SEK/TRC	
ENGINEER	
GEL/TRC	
CHECKED	
GEL/TRC	
APPROVED	
BRS/TRC	
DATE	
12/04/20	

**LINE X104, 115kV LINE**  
**STATE LAND AND PUBLIC WATERBODY CROSSING**  
**HILLSBOROUGH AND ANTRIM, NEW HAMPSHIRE**  
**EXHIBIT 1**

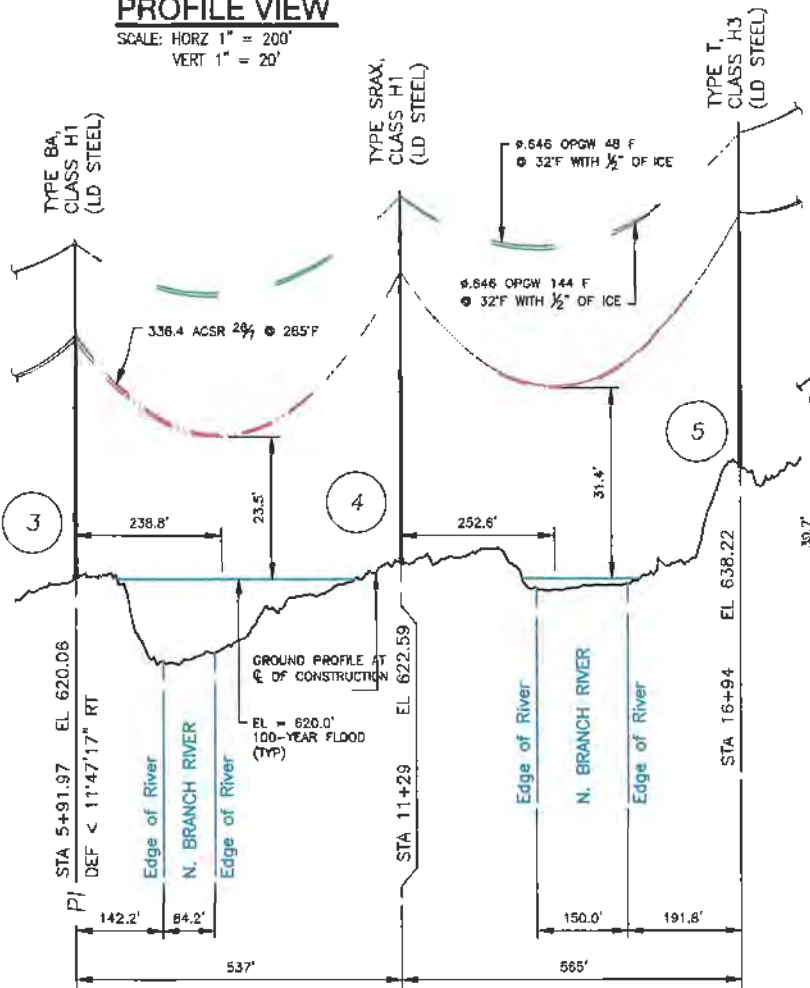
SCALE  
1" = 2500'

FILE: X10443901.DWG  
IMAGE:

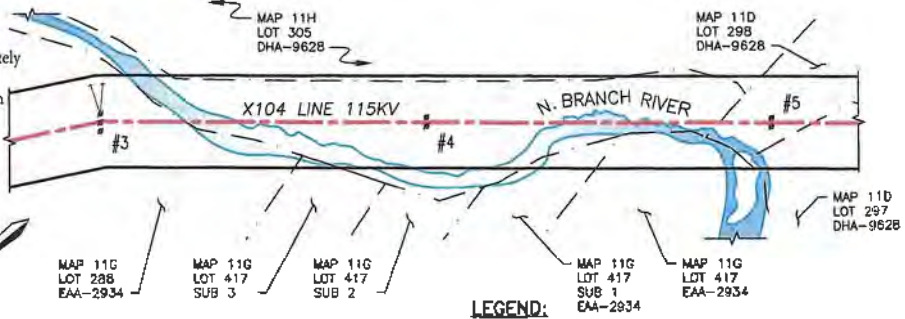
DRAWING NO.  
**X10443901**

### PROFILE VIEW

SCALE: HORZ 1" = 200'  
VERT 1" = 20'

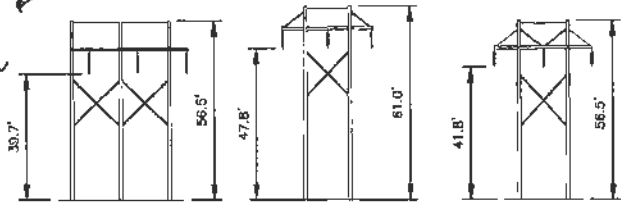


Structure 3 is approximately 600 feet southwest of Saw Mill Rd and Jackman Substation



### PLAN VIEW

SCALE: 1" = 200'



**STRUCTURE 3**  
TYPE BA  
STR 3: IS AN EVERSOURCE TYPE BA, SINGLE CIRCUIT ANGLE STEEL STRUCTURE, HORIZONTAL CONFIG., GUYED.

**STRUCTURE 4**  
TYPE SRAX  
STR 4: IS AN EVERSOURCE TYPE SRAX, SINGLE CIRCUIT TANGENT STEEL STRUCTURE, HORIZONTAL CONFIG.

**STRUCTURE 5**  
TYPE T  
STR 5: IS AN EVERSOURCE TYPE T, SINGLE CIRCUIT TANGENT STEEL STRUCTURE, HORIZONTAL CONFIG.

### STRUCTURE DETAILS

SCALE: NTS

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (mph)
CONDUCTOR	3	ACSR, 336.4 kernll 26/7, LNNET	4000	0	0.5	4
OPGW	1	48F 40,646 AFL 53-81/89/646	5000	0	0.5	4
OPGW	1	144F 40,646 AFL 53-81/51/646	4500	0	0.5	4

### LEGEND:

- STRUCTURE (WITH GUYS)
- STREAM, EDGE OF RIVER/WATER
- PROPERTY BOUNDARY
- X104 LINE 115KV
- LINE, E OF CONSTRUCTION
- LIMITS OF EVERSOURCE RIGHT OF WAY

STRUCTURE LOCATION		
STRUCTURE	LONGITUDE	LATITUDE
3	-71.92737641	43.11086999
4	-71.92861747	43.10971113
5	-71.92992789	43.10849582

NESC VERTICAL CLEARANCE (FT)		
FROM TABLE 232.1		
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES		115KV
WATER AREAS NOT SUITABLE FOR SAIL BOATING OR WHERE SAIL BOATING IS PROHIBITED		18.6

### NOTES:

- PARCEL INFORMATION PROVIDED BY NH GRANIT.
- ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- 100 YEAR FLOOD ELEVATION FROM THE FEMA FLOOD MAP SERVICE CENTER, NATIONAL FLOOD HAZARD LAYER FIRMETTE, 01/18/2020.

## EVERSOURCE ENERGY

LINE X104, 115kV LINE  
N. BRANCH RIVER, WATERBODY CROSSING  
HILLSBOROUGH, NEW HAMPSHIRE  
EXHIBIT 2

ISSUED TO: PIG	DATE: 12/20	BY: SK	CHK: BRS	APP: BRS
DATE REV: 01/04/20	REV DESCRIPTION: 01/04/20	DATE: 01/04/20	BY: SK	CHK: BRS

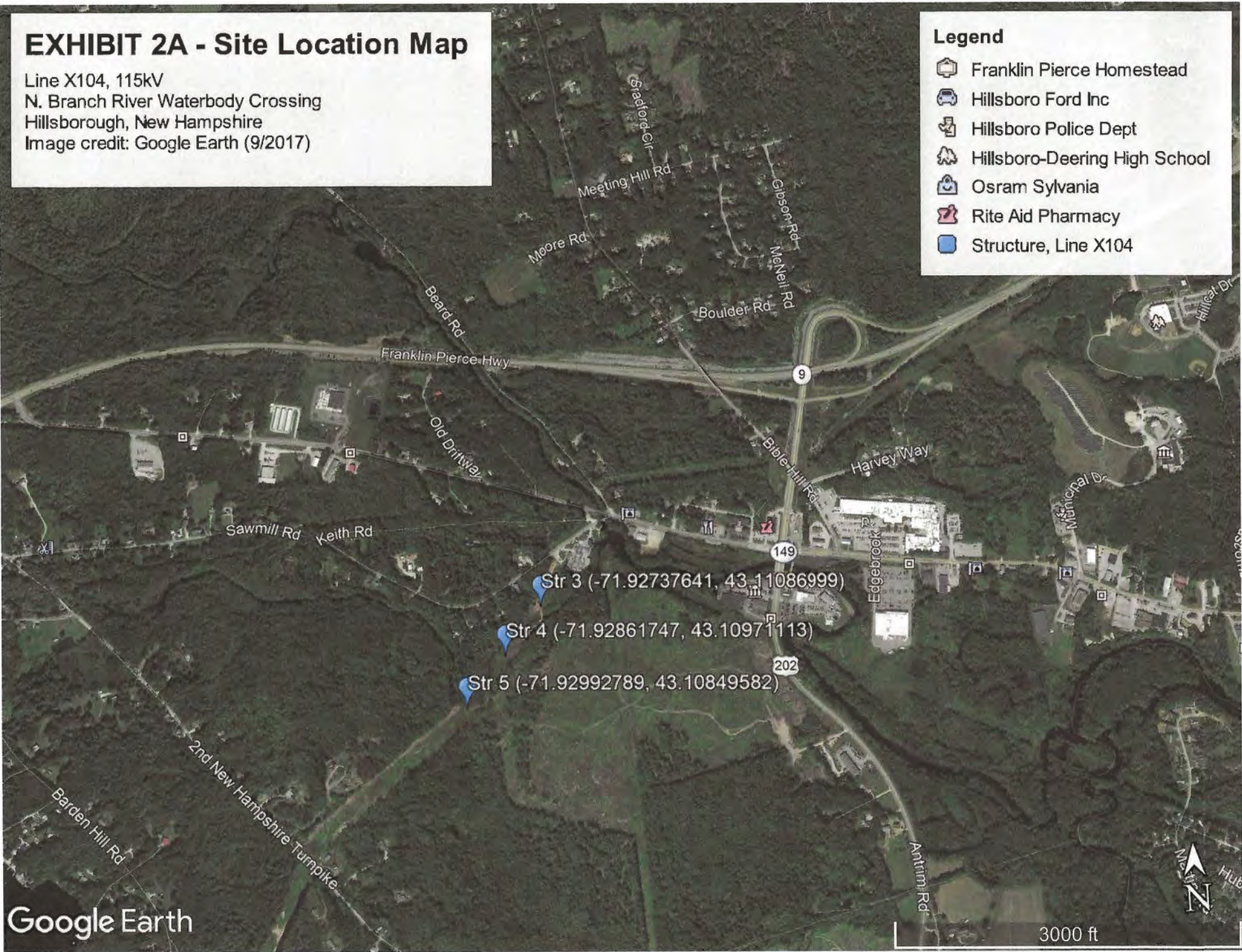
SCALE: AS SHOWN  
FILE: X10443901.DWG  
DRAWING NO: X10443901

# EXHIBIT 2A - Site Location Map

Line X104, 115kV  
N. Branch River Waterbody Crossing  
Hillsborough, New Hampshire  
Image credit: Google Earth (9/2017)

### Legend

- Franklin Pierce Homestead
- Hillsboro Ford Inc
- Hillsboro Police Dept
- Hillsboro-Deering High School
- Osram Sylvania
- Rite Aid Pharmacy
- Structure, Line X104









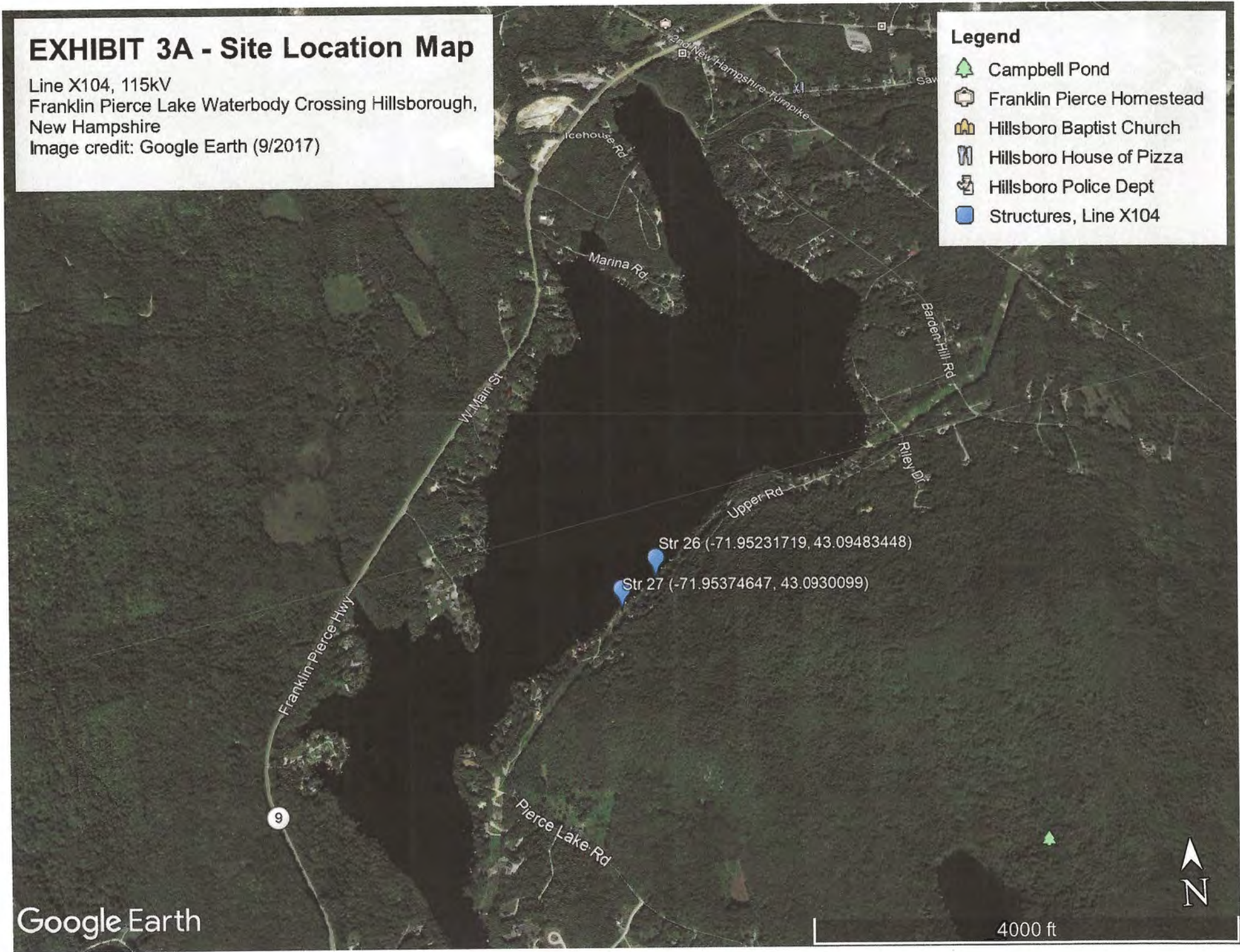


# EXHIBIT 3A - Site Location Map

Line X104, 115kV  
Franklin Pierce Lake Waterbody Crossing Hillsborough,  
New Hampshire  
Image credit: Google Earth (9/2017)

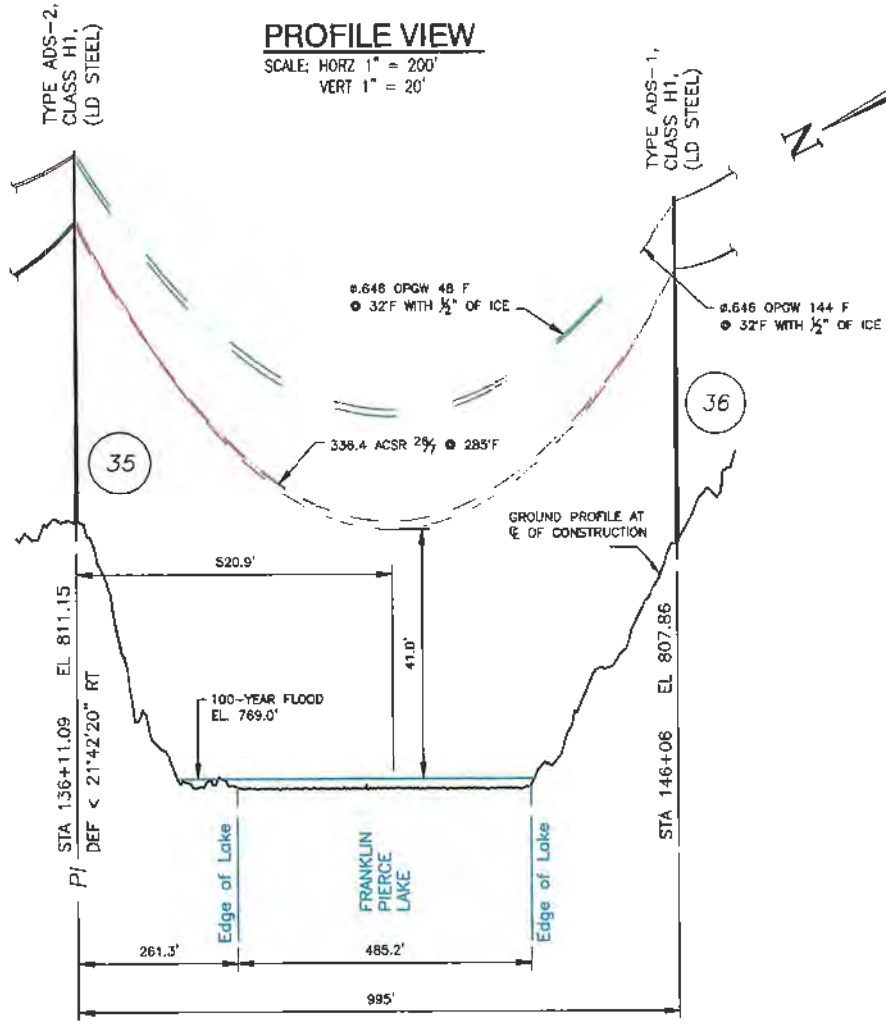
**Legend**

-  Campbell Pond
-  Franklin Pierce Homestead
-  Hillsboro Baptist Church
-  Hillsboro House of Pizza
-  Hillsboro Police Dept
-  Structures, Line X104

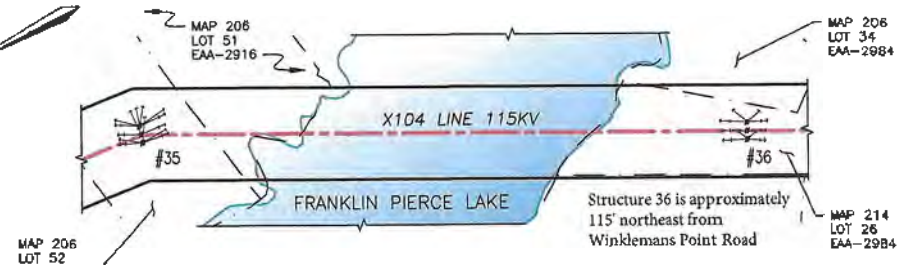


Google Earth

4000 ft

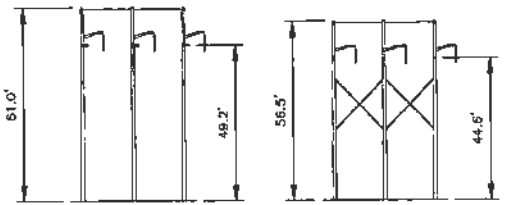


**PROFILE VIEW**  
SCALE: HORZ 1" = 200'  
VERT 1" = 20'



**PLAN VIEW**  
SCALE: 1" = 200'

- LEGEND:**
- STRUCTURE (WITH GUYS)
  - STREAM, EDGE OF RIVER/WATER
  - PROPERTY BOUNDARY
  - X104 LINE 115KV** LINE, ☉ OF CONSTRUCTION
  - LIMITS OF EVERSOURCE RIGHT OF WAY



**STRUCTURE 35**  
TYPE ADS-2  
STR 35: IS AN EVERSOURCE TYPE ADS-2, SINGLE CIRCUIT DEADEND STEEL STRUCTURE, HORIZONTAL CONFIG., GUYED

**STRUCTURE 36**  
TYPE ADS-1  
STR 36: IS AN EVERSOURCE TYPE ADS-1, SINGLE CIRCUIT DEADEND STEEL STRUCTURE, HORIZONTAL CONFIG., GUYED

**STRUCTURE DETAILS**  
SCALE: NTS

STRUCTURE LOCATION		
STRUCTURE	LONGITUDE	LATITUDE
35	-71.85820055	43.08602913
36	-71.96088627	43.08359585

NESO VERTICAL CLEARANCE (FT)	
FROM TABLE 232.1	
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115kV
WATER AREAS SUITABLE FOR SAIL BOATING INCLUDING LAKES, PONDS, RESERVOIRS, TIDAL WATERS, RIVERS, STREAMS, AND CANALS WITH AN UNOBSTRUCTED SURFACE AREA OF:	
OVER 20 TO 200 ACRES	30.1

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (%)	TEMP (°F)	ICE (in)	WIND (mph)
CONDUCTOR	3	ACSR, 338.4 kmil 28/7, LINNET	5000	0	0.5	4
OPGW	1	48F #0.846 AFL S3-81/89/846	5900	0	0.5	4
OPGW	1	144F #0.846 AFL S3-81/81/846	5000	0	0.5	4

- NOTES:**
- PARCEL INFORMATION PROVIDED BY NH GRANIT.
  - ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1088.
  - 100 YEAR FLOOD ELEVATION FROM THE FEMA FLOOD MAP SERVICE CENTER, NATIONAL FLOOD HAZARD LAYER FIRMETTE, 01/16/2020.

**EVERSOURCE ENERGY**

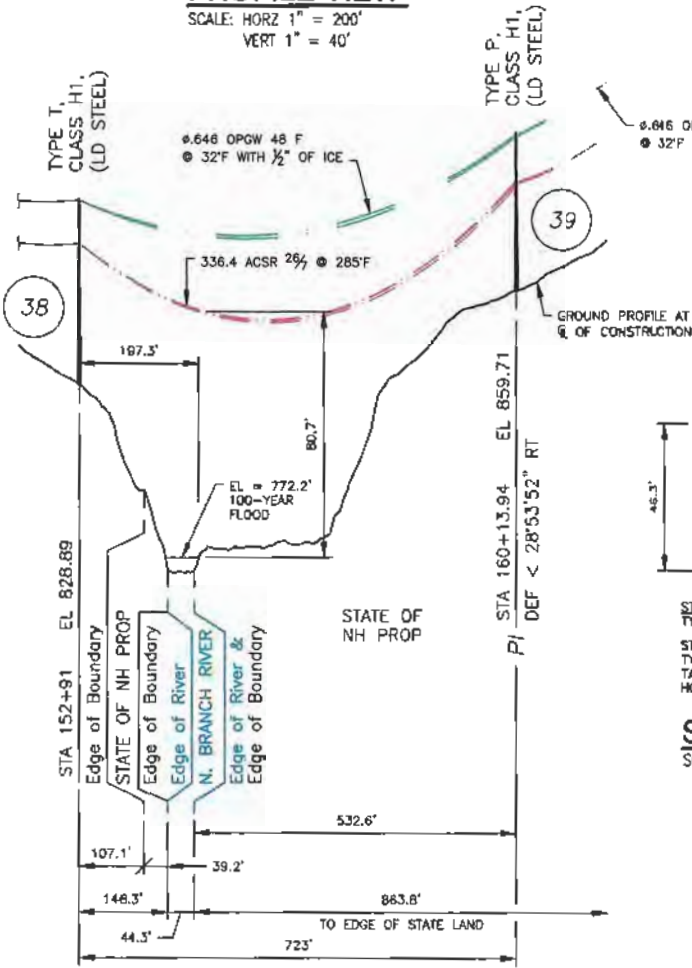
LINE X104, 115kV LINE  
FRANKLIN PIERCE LAKE, WATERBODY CROSSING  
ANTRIM, NEW HAMPSHIRE  
EXHIBIT 4

SCALE AS SHOWN	FILE: X10443903.DWG	DRAWING NO. X10443903
----------------	---------------------	-----------------------

NO	REV	ISSUED TO	PLS	DATE	BY	CHK	APP
1		ISSUED TO PLS		12/20	DMK	DEL	BRS
		PLS DESCRIPTION			DMK	DEL	APP

**PROFILE VIEW**

SCALE: HORIZ 1" = 200'  
VERT 1" = 40'

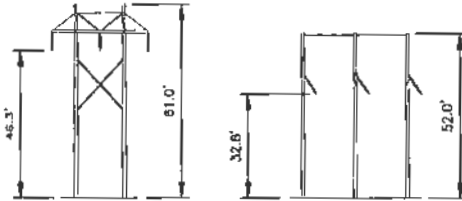


Structure 38 is approximately 175' southwest from Winklemans Point Road

0.646 OPGW 48 F  
32' F WITH 1/2" OF ICE

0.616 OPGW 144 F  
32' F WITH 1/2" OF ICE

GROUND PROFILE AT  
CL OF CONSTRUCTION



STRUCTURE 38  
TYPE T

STR 38: IS AN EVERSOURCE  
TYPE T, SINGLE CIRCUIT  
TANGENT STEEL STRUCTURE,  
HORIZONTAL CONFIG.

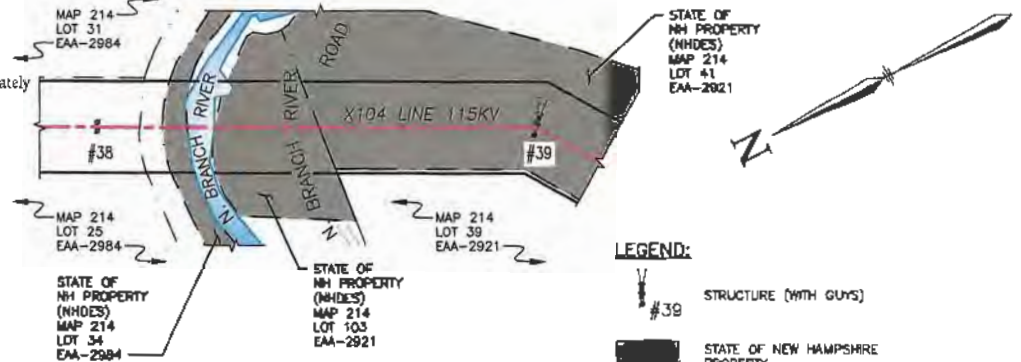
STRUCTURE 39  
TYPE P

STR 39: IS AN EVERSOURCE  
TYPE P, SINGLE CIRCUIT ANGLE  
STEEL STRUCTURE, HORIZONTAL  
CONFIG., GUYED

**STRUCTURE DETAILS**

SCALE: NTS

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 336.4 kcmil 26/7, LINNET	4000	0	0.5	4
OPGW	1	48F 40.648 APL 53-81/89/646	5000	0	0.5	4
DPOW	1	144F 40.816 APL 53-81/51/646	5000	0	0.5	4



**PLAN VIEW**

SCALE: 1" = 200'

**LEGEND:**

- #39 STRUCTURE (WITH GUYS)
- STATE OF NEW HAMPSHIRE PROPERTY
- STREAM/EDGE OF RIVER/WATER
- PROPERTY BOUNDARY
- X104 LINE 115KV LINE, CL OF CONSTRUCTION
- LIMITS OF EVERSOURCE RIGHT OF WAY

STRUCTURE LOCATION		
STRUCTURE	LONGITUDE	LATITUDE
38	-71.96204704	43.08191985
39	-71.98326956	43.08014892

NESC VERTICAL CLEARANCE (FT)	
FROM TABLE 232.1	
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115KV
ROADS, STREETS AND OTHER AREAS SUBJECT TO TRUCK TRAFFIC	20.1
WATER AREAS NOT SUITABLE FOR SAIL BOATING OR WHERE SAIL BOATING IS PROHIBITED	18.6

**NOTES:**

1. PARCEL INFORMATION PROVIDED BY NH GRANIT.
2. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. 100 YEAR FLOOD ELEVATION FROM THE FEMA FLOOD MAP SERVICE CENTER, NATIONAL FLOOD HAZARD LAYER FIRMETTE, 01/16/2020.

**EVERSOURCE ENERGY**

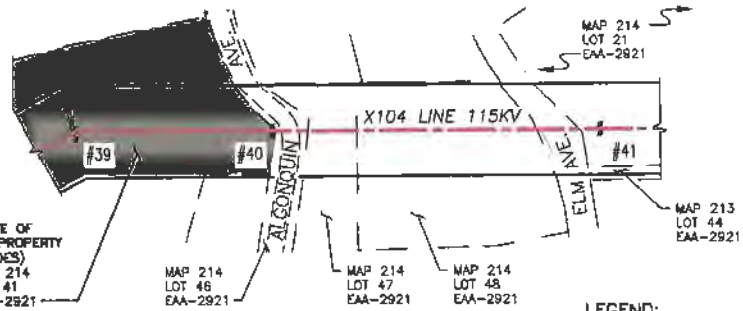
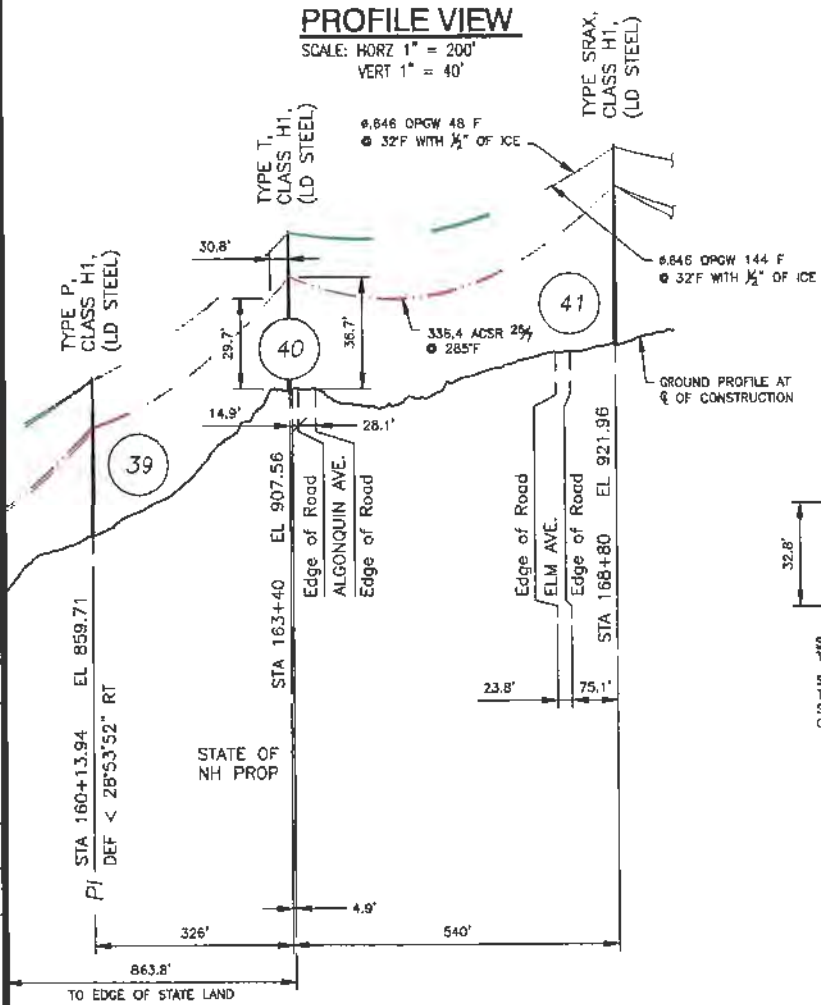
LINE X104, 115kV LINE  
N. BRANCH RIVER, WATERBODY & STATE LAND CROSSING  
ANTRIM, NEW HAMPSHIRE  
EXHIBIT 5

DATE AS SHOWN	DATE 12/04/20
FILE: X10443904.DWG	PROJECT NO. X10443904

NO.	ISSUED BY	DATE	REV.	APP.
1	DESIGNED BY PUC	12/20	SKN	ERS
2	CHKD BY	02/07/2021	SKN	ERS

**PROFILE VIEW**

SCALE: HORIZ 1" = 200'  
VERT 1" = 40'



**PLAN VIEW**

SCALE: 1" = 200'

**LEGEND:**

- STRUCTURE (WITH GUYS)
- STATE OF NEW HAMPSHIRE PROPERTY
- PROPERTY BOUNDARY
- X104 LINE 115KV** LINE, & OF CONSTRUCTION
- LIMITS OF EVERSOURCE RIGHT OF WAY

**STRUCTURE LOCATION**

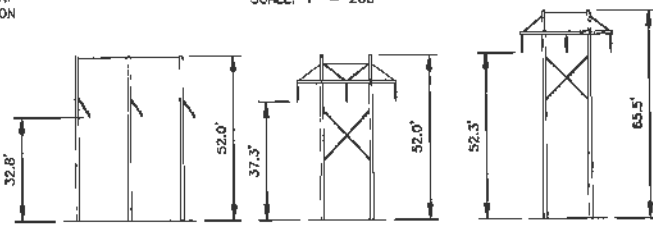
STRUCTURE	LONGITUDE	LATITUDE
39	-71.96326956	43.08014892
40	-71.96428286	43.07964781
41	-71.96595655	43.07881822

**NESS VERTICAL CLEARANCE (FT)**  
FROM TABLE 232.1

NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115KV
ROADS, STREETS AND OTHER AREAS SUBJECT TO TRUCK TRAFFIC	20.1

**NOTES:**

1. PARCEL INFORMATION PROVIDED BY NH GRANT.
2. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. 100 YEAR FLOOD ELEVATION FROM THE FEMA FLOOD MAP SERVICE CENTER, NATIONAL FLOOD HAZARD LAYER FIRMETTE, 01/16/2020.



STRUCTURE 39  
TYPE P

STR 39: IS AN EVERSOURCE TYPE P, SINGLE CIRCUIT ANGLE STEEL STRUCTURE, HORIZONTAL CONFIG., GUYED

STRUCTURE 40  
TYPE T

STR 40: IS AN EVERSOURCE TYPE T, SINGLE CIRCUIT ANGLE STEEL STRUCTURE, HORIZONTAL CONFIG.

STRUCTURE 41  
TYPE SRAX

SIR 41: IS AN EVERSOURCE TYPE SRAX, SINGLE CIRCUIT ANGLE STEEL STRUCTURE, HORIZONTAL CONFIG.

**STRUCTURE DETAILS**

SCALE: NTS

**CABLE SCHEDULE**

WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 336.4 kcmil 26/7, LINNET	4000	0	0.5	4
OPGW	1	48F 80.648 AFL S3-81/88/646	5000	0	0.5	4
OPGW	1	144F 40.648 AFL S3-81/51/646	5000	0	0.5	4

**EVERSOURCE ENERGY**

LINE X104, 115kV LINE  
N. BRANCH RIVER, WATERBODY & STATE LAND CROSSING  
ANTRIM, NEW HAMPSHIRE  
EXHIBIT 6

DATE: 12/04/20  
DRAWN BY: GEL/TRC  
CHECKED BY: GEL/TRC  
APPROVED BY: BRS/TRC  
DATE: 12/04/20








NO	ISSUED TO	DATE	BY	CHKD	APPD
1	ISSUED TO PJC	12/20	SK	GEL	BRS
2	REV	DATE	BY	CHKD	APPD



# EXHIBIT 6A - Site Location Map

Line X104, 115kV  
Franklin Pierce Lake & N. Branch River Waterbody Crossing  
Antrim, New Hampshire  
Image credit: Google Earth (9/2017)

## Legend

-  Deering Fire Dept
-  Foxbend Veterinary Clinic
-  Franklin Pierce Homestead
-  Hillsboro Police Dept
-  Stonewall Farm Bed & Breakfast
-  Structures, Line X104
-  Wediko Children's Services

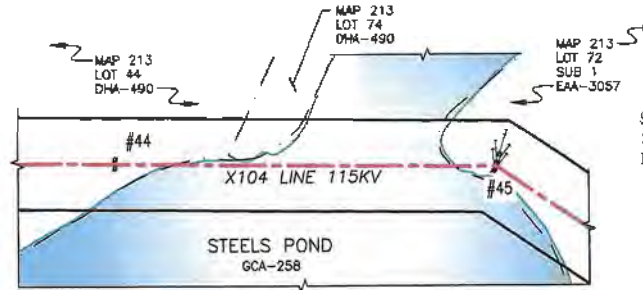
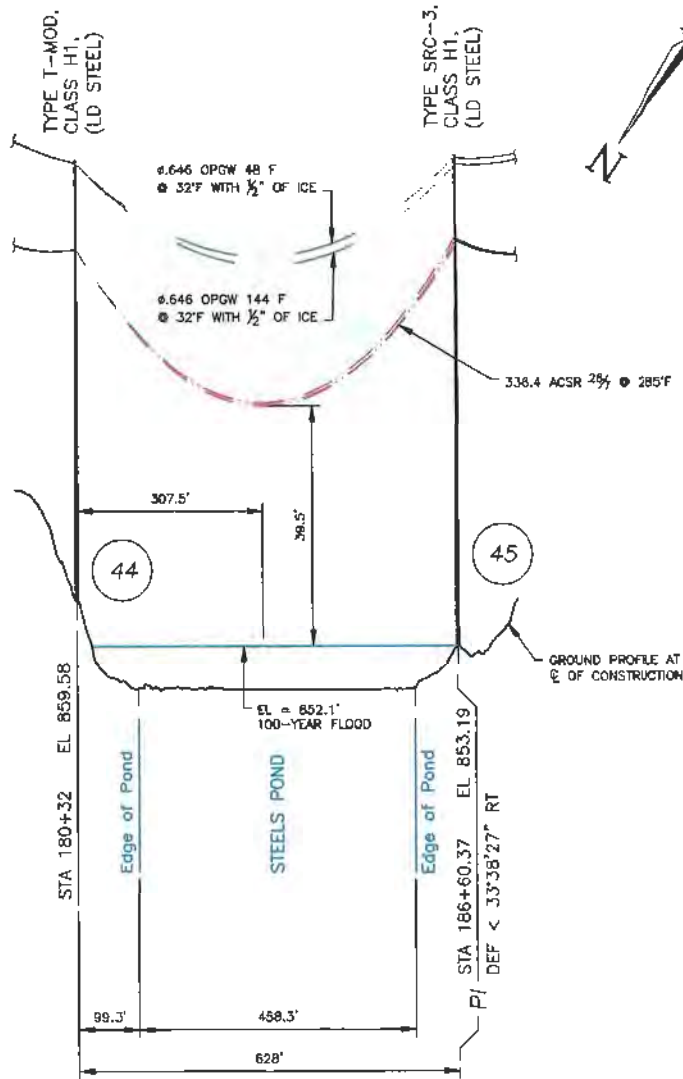
Str 35 (-71.95920055, 43.08602913)  
Str 36 (-71.96088627, 43.08359565)  
Str 38 (-71.96204704, 43.08191985)  
Str 39 (-71.96326956, 43.08014892)  
Str 40 (-71.96428286, 43.07964761)  
Str 41 (-71.96595655, 43.07881822)

Google Earth



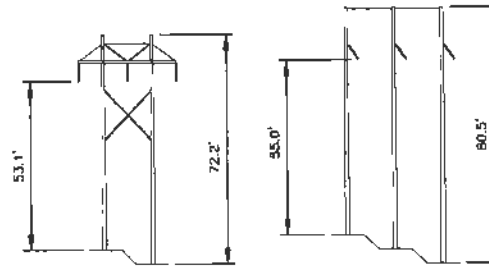
### PROFILE VIEW

SCALE: HORIZ 1" = 200'  
VERT 1" = 20'



### PLAN VIEW

SCALE: 1" = 200'



**STRUCTURE 44**  
TYPE T-MOD

STR 44: IS AN EVERSOURCE TYPE T-MOD, SINGLE CIRCUIT TANGENT STEEL STRUCTURE, HORIZONTAL CONFIG.

**STRUCTURE 45**  
TYPE SRC-3

STR 45: IS AN EVERSOURCE SINGLE CIRCUIT ANGLE STEEL STRUCTURE, HORIZONTAL CONFIG., GUYED

### STRUCTURE DETAILS

SCALE: NTS

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 336.4 kcmil 26/7, LNNET	4500	0	0.5	4
OPGW	1	48F Ø0.646 AFL S3-81/89/646	5000	0	0.5	4
OPGW	1	144F Ø0.646 AFL S3-81/81/646	4500	0	0.5	4

Structure 45 is approximately 1,100' east from Old North Branch Road

### LEGEND:

- STRUCTURE (WITH GUYE)
- STREAM, EDGE OF RIVER/WATER
- PROPERTY BOUNDARY
- LINE, Q OF CONSTRUCTION
- LIMITS OF EVERSOURCE RIGHT OF WAY

STRUCTURE LOCATION		
STRUCTURE	LONGITUDE	LATITUDE
44	-71.86952066	43.07703943
45	-71.97145924	43.07605510

NESC VERTICAL CLEARANCE (FT)	
FROM TABLE 232.1	
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115KV
WATER AREAS NOT SUITABLE FOR SAIL BOATING OR WHERE SAIL BOATING IS PROHIBITED	18.6

### NOTES:



- PARCEL INFORMATION PROVIDED BY NH GRANIT.
- ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- 100 YEAR FLOOD ELEVATION FROM THE FEMA FLOOD MAP SERVICE CENTER, NATIONAL FLOOD HAZARD LAYER FIRMETTE, 01/16/2020.

<h2>EVERSOURCE ENERGY</h2> <p>LINE X104, 115KV LINE STEELE POND, WATERBODY CROSSING ANTRIM, NEW HAMPSHIRE EXHIBIT 7</p>	T	1
	DRAWN	SEK/TRC
	DESIGNED	GEL/TRC
	CHECKED	GEL/TRC
APPROVED	BRS/TRC	DATE
12/04/20		
ISSUED TO PUC	12/20	SEK
DATE	12/20	GEL
DATE	12/20	BRS
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DATE	12/20	GEL
DATE	12/20	BRS
DATE	12/20	GEL
DATE	12/20	BRS
DATE	12/20	GEL
DATE	12/20	BRS
DATE	12/20	GEL
DATE	12/20	BRS

# EXHIBIT 7A - Site Location Map

Line X104, 115kV  
Steels Pond Waterbody Crossing  
Antrim, New Hampshire  
Image credit: Google Earth (9/2017)

**Legend**

-  Structures, Line X104
-  Wediko Children's Services

