APPENDIX A
385 LINE
COCHECO RIVER
ROCHESTER, NH

1. The location of this crossing is shown on the attached location map (Drawing No. D-7649-90A) marked as Exhibit 1.

2. The design and proposed construction of this crossing is shown on the attached PSNH Transmission Drawing entitled "385 LINE (345 KV) CROSSING BETWEEN STRUCTURES 15 AND 16, COCHECO RIVER, ROCHESTER, NEW HAMPSHIRE" (Drawing No. D-7649-90) marked as Exhibit 2.

3. Line 385 crosses the Cocheco River on two-pole, 100' wood tangent structures (Type EA-1) with a span of 683.49'. A detail drawing of this structure has been provided with the Petition as FIGURE 1. As shown on FIGURE 1, the bundled phase wires have an approximate separation at the structure of 26.0' horizontally. The OPGW cable is carried on the structures above the phase wires by a support bracket approximately 23' above and 12'-3" laterally from the closest phase wire.

4. The sag and clearance to the phase wires under weather conditions that would produce the minimum clearance between the phase wires and the OPGW cable would be a combination of winter weather factors. First, the phase wires would have to be at 30 deg. F. The OPGW cable would also be at 30 deg. F and would be iced with 1/2" of radial ice. Under these conditions the clearance would be 22.79' vertically and 11.81' horizontally from the fiber optic cable to the closest phase wire. This will produce a diagonal separation of 25.7' or $[(22.79')^2 + (11.81')^2]^{.5}$. Based on Section 235.C.2.a.1 and Table 235-6 section 2.a of the NESC, the minimum clearance required is 153.9", or approximately 12.8' [29" + (362.3 kV-50 kV) x 0.4"].

EXHIBIT 1

NO.	REVISION	DATE	DRWN	CHCK	APPR

DRAWN: WNT

DESIGNED:

CHECKED: MTM

APPROVED: MTM

Public Service of New Hampshire — Transmission Business

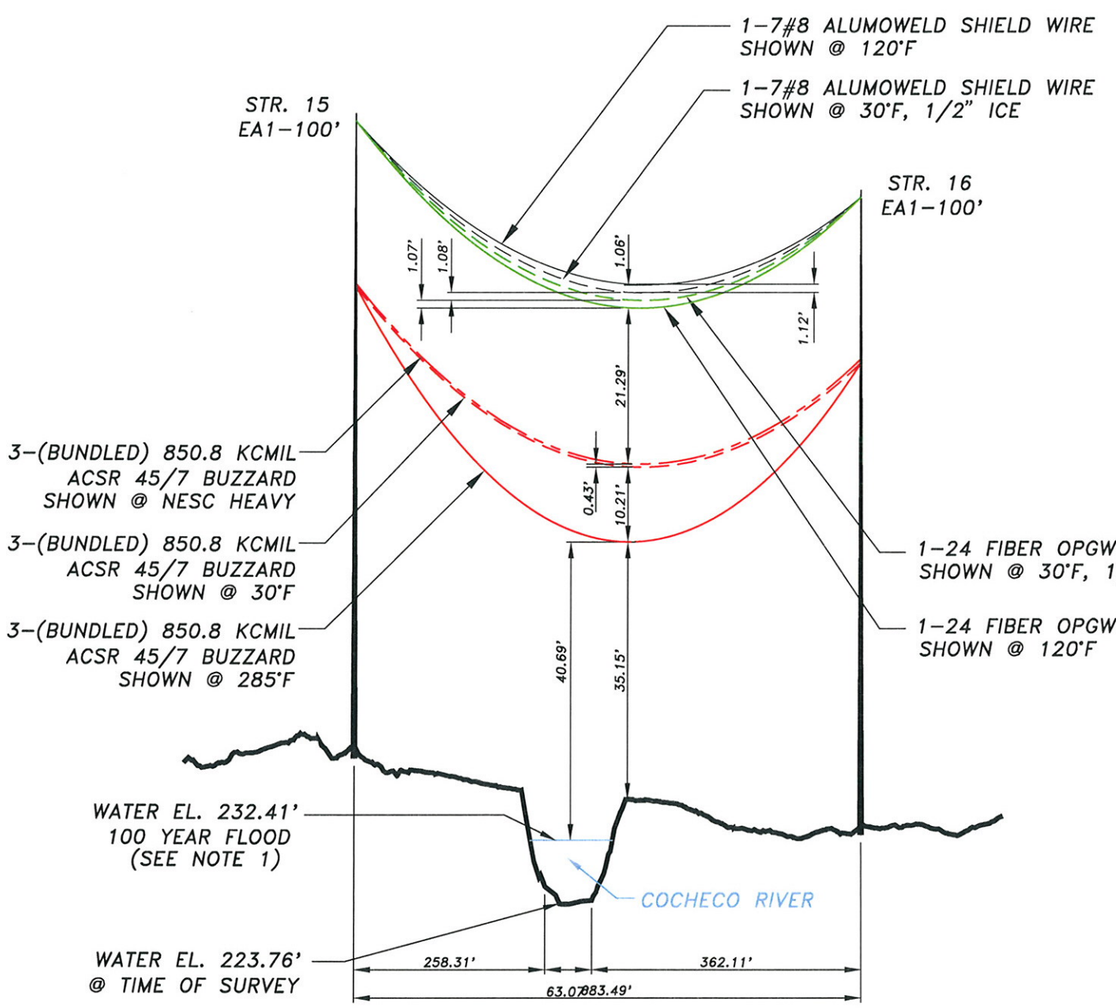
LOCATION PLAN

385 LINE (345KV) STR. 15 TO STR. 16

COCHECO RIVER WATER CROSSING

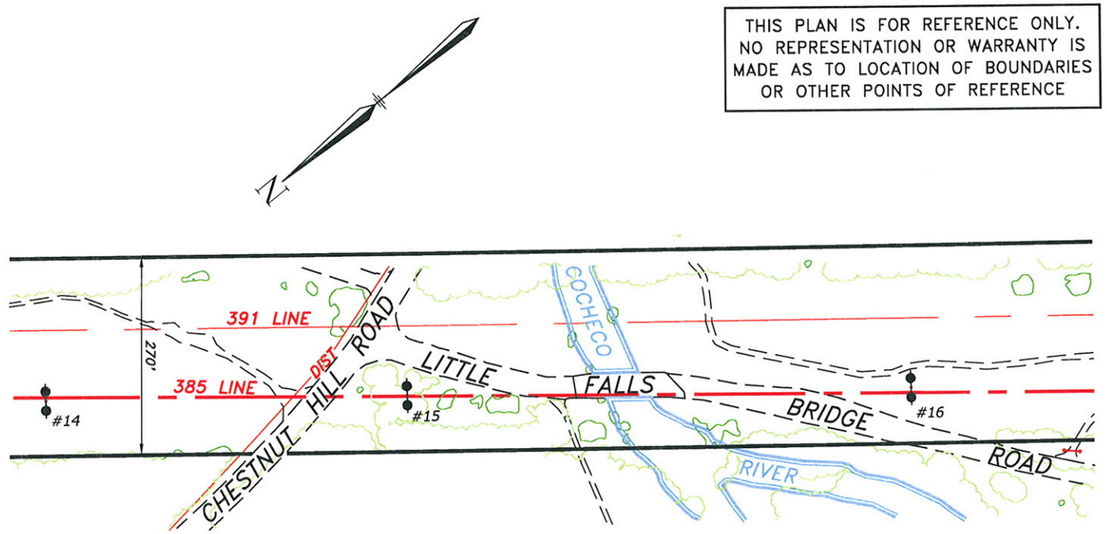
ROCHESTER, NEW HAMPSHIRE

SCALE	DATE	SHEET	DRAWING NO.
1"=2000'	05/29/2012	1 OF 1	D-7649-90A



PROFILE

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



PLAN VIEW

SCALE: 1"=200'

THIS PLAN IS FOR REFERENCE ONLY. NO REPRESENTATION OR WARRANTY IS MADE AS TO LOCATION OF BOUNDARIES OR OTHER POINTS OF REFERENCE

NOTE:

1. THE 100 YEAR FLOOD ELEVATION WAS BASED ON THE FEMA FIRM MAP PANEL #33017C0203D, DATED MAY 17, 2005. THE FIRM MAP 100 YEAR FLOOD ELEVATION OF 233.00 FEET (NGVD29) IS USED AT THE PROPOSED CROSSING. THIS ELEVATION WAS CONVERTED TO NAVD88. THE CONVERSION FOR NGVD29 TO NAVD88 FOR ROCHESTER, NH IS APPROXIMATELY –0.591 FEET PER THE NATIONAL GEODETIC SURVEY.

2. ALL ELEVATIONS SHOWN ON DRAWING BASED ON NAVD88.

200 100 0 200 500

GRAPHIC SCALE
(Feet)

EXHIBIT 2

NO.	REVISION	DATE	DRWN	CHCK	APPR

Public Service of New Hampshire

Transmission Business

DRAWN: PAP	385 LINE (345kV)
DESIGNED: JMF	BETWEEN STRUCTURES 15 & 16
CHECKED:	**COCHECO RIVER CROSSING**
APPROVED: RPL	ROCHESTER, NEW HAMPSHIRE

SCALE	DATE	SHEET	DRAWING NO.
AS SHOWN	6/1/2012	__OF__	D–7649–90

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