

STATE OF NEW YORK	
DEPT. OF PUBLIC SERVICE	
DATE	5/15/07
CASE NO.	01-1-1079
EX	2

LONG ISLAND POWER AUTHORITY

EXHIBIT 2 LOCATION OF FACILITIES

PREPARED PURSUANT TO SECTION 86.3

EXHIBIT 2 LOCATION OF FACILITIES

2.1 General Description of Facility Location

The Project involves replacement of the seven (7) submarine electric transmission cables that presently run from the Northport Power Station in Northport, New York, across the Long Island Sound to the Connecticut Light & Power Company's ("CL&P") Norwalk Station in Norwalk, Connecticut (Figure 2-1). The seven (7) existing cables are to be replaced by three 3 conductor ("3/C") 138kV submarine cables. The cable distance from landfall in Northport to landfall in Norwalk is approximately eleven (11) miles, of which approximately 5.4 miles are located within New York State.

The seven (7) existing cables are liquid-insulated. The three (3) new replacement cables will be modern solid-core cables that are better protected, more reliable, and will eliminate the potential discharge of dielectric fluid into the environment. In order to avoid environmental and other impacts to the greatest extent possible, the Preferred Route for the new cables lies within the existing Cable Corridor.

2.2 Location Maps

A map showing the overall location of the Project is attached as Figure 2-1. Drawing 2-2 shows the location of the Project and the surrounding area within five (5) miles, on a New York State Department of Transportation ("NYSDOT") base map (1:24,000 scale). Figure 2-3 shows property line survey data for the Northport Power Station. Figure 2-4 shows the location of the Submarine Cable Route from Long Island to Connecticut on a base map derived from National Oceanic and Atmospheric Administration ("NOAA") chart(s) of Long Island Sound.⁷

Additional mapping of environmental resources for the Project and adjacent areas is provided in Exhibit 4 ("Environmental Impacts").

2.3 Aerial Photographs

Aerial photographs of the Northport Landfall and the Northport Substation area were taken on February 27, 1999.⁸ Copies of the photographs are attached as Figure 2-5. The

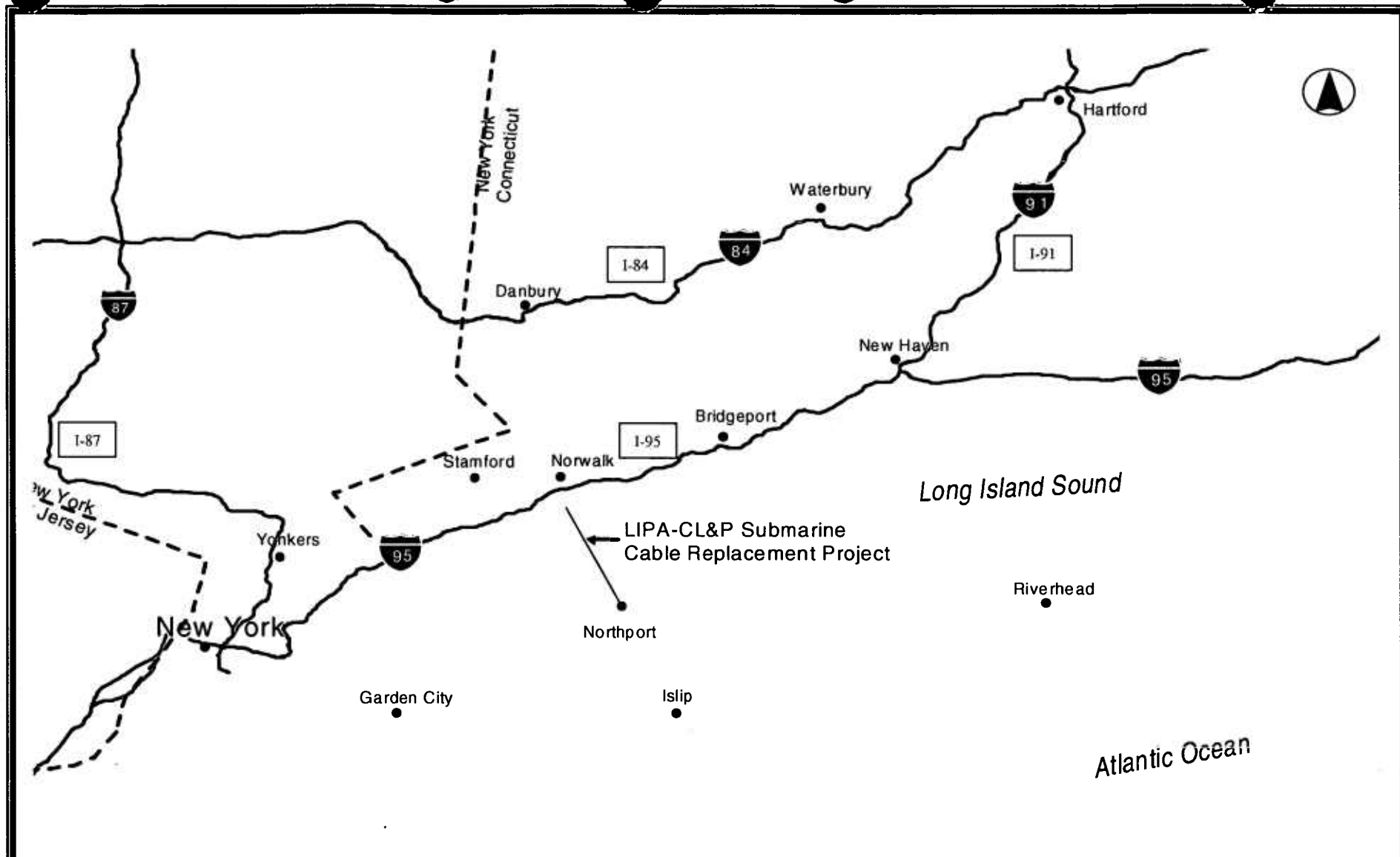
¹ As set forth in the Motion for Waiver of Certain Application Requirements, the Applicant respectfully requests to use NOAA charts instead of NYSDOT maps as the basis for the offshore portion of the Project.

² As set forth in the Motion for Waiver, the Applicant respectfully requests relief from the Article VII requirement (i) that aerial photographs be taken within six (6) months of the date of filing of the Application and (ii) that aerial photographs of the submarine route beyond one thousand two hundred feet (1,200') of the landfall be provided.

photographs show existing features of the Northport Landfall, Substation, interconnection, and adjacent areas at a suitable scale. Figure 2-6 depicts the relationship between the Project and the LIPA transmission system. There have been no significant changes to built features within the Project Site, or areas immediately surrounding the Project Site since the time the photographs were taken.

2.4 Typical Layouts and Details

Design drawings, cable construction figures, and modifications to the Northport Substation are attached as Exhibits 5, E-1, E-2, and E-3.



LIPA
Long Island Power Authority



Connecticut
Light & Power

The Northeast's Future System

Project Area Map **LIPA/CL&P Submarine Cable Replacement Project**

Source: ESRI Data & Maps (Eastern US) 1999
Not to Scale

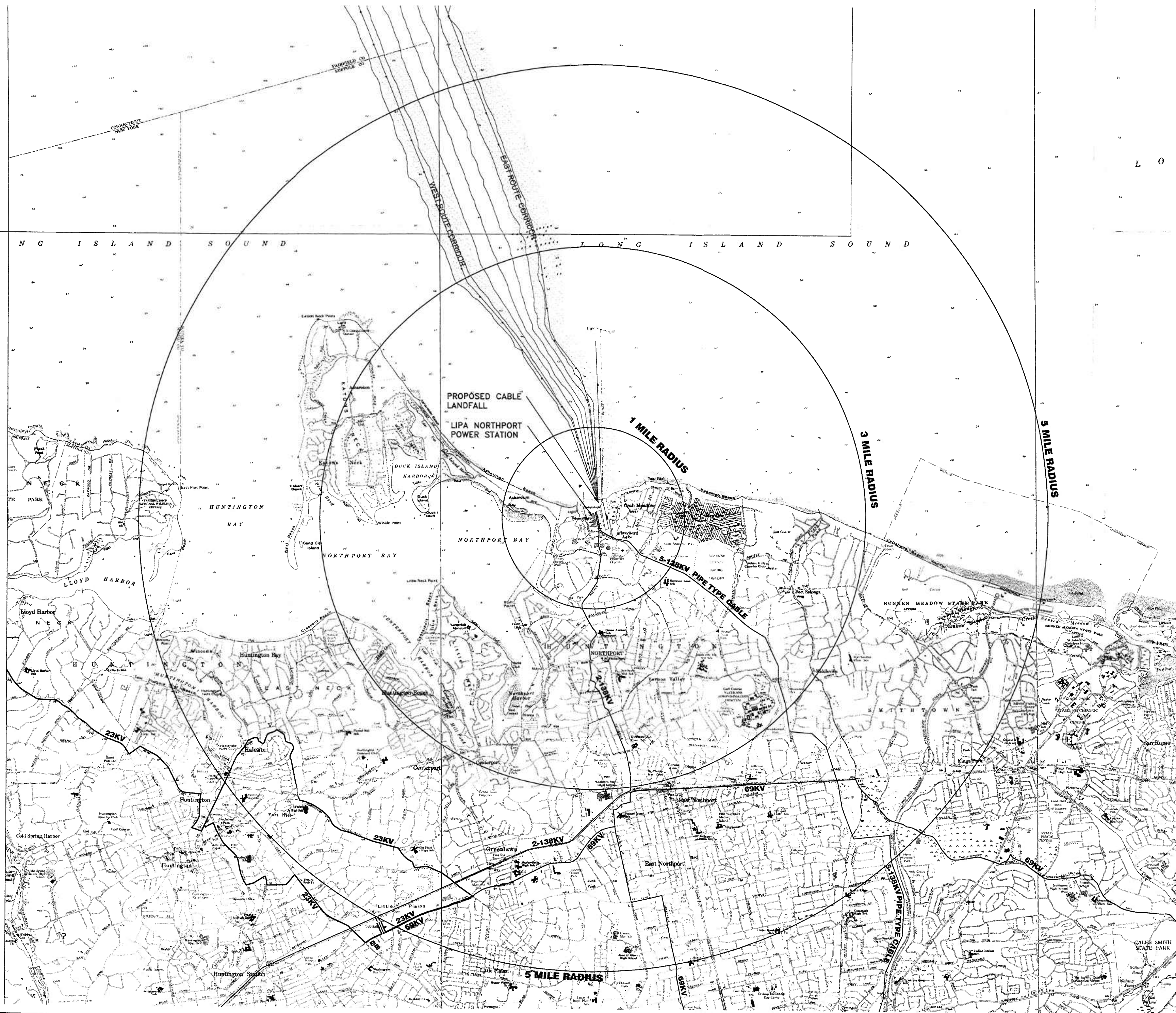
FIGURE NO.
2-1

PROJECT NO.
K070-012.1

ESS



1" = 1/2" 0"



DRAWING NO.

2-2

SHEET

LIPA-CL&P
Submarine Cable Replacement Project
Norwalk, CT - Northport, NY

PROJECT NO.

K070-000.8

ESS

ENVIRONMENTAL SCIENCE SERVICES, INC.

Environmental Scientists, Engineers, and Planners
888 Worcester Street, Suite 240
Wellesley, Massachusetts 02482



781.431.0500
Web Site: www.essgroup.com

REV	DATE	DESCRIPTION	DES BY	CHK BY	APP BY
01	12/01				

LONG ISLAND POWER AUTHORITY TRANSMISSION SYSTEM

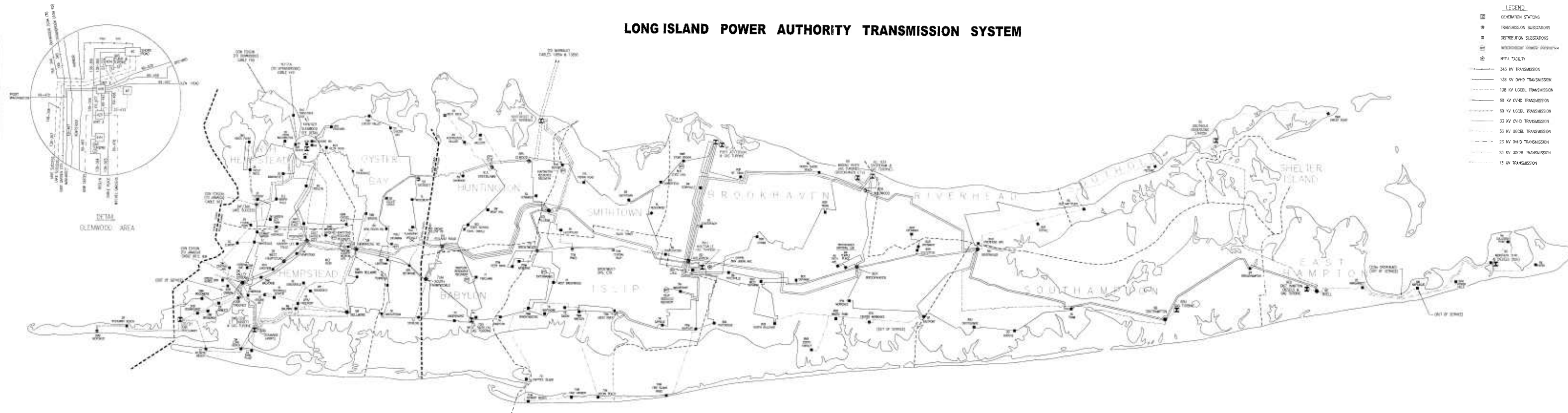


FIGURE 2-6

LAST REVISION - MAY 1, 2000



LIPA
Long Island Power Authority



Connecticut
Light & Power

The Northeast Utilities System

Northport, NY to Norwalk, CT
Submarine Cable Replacement Project

1"=300' Date Photographed: February 27, 1999
LIPA-CL&P

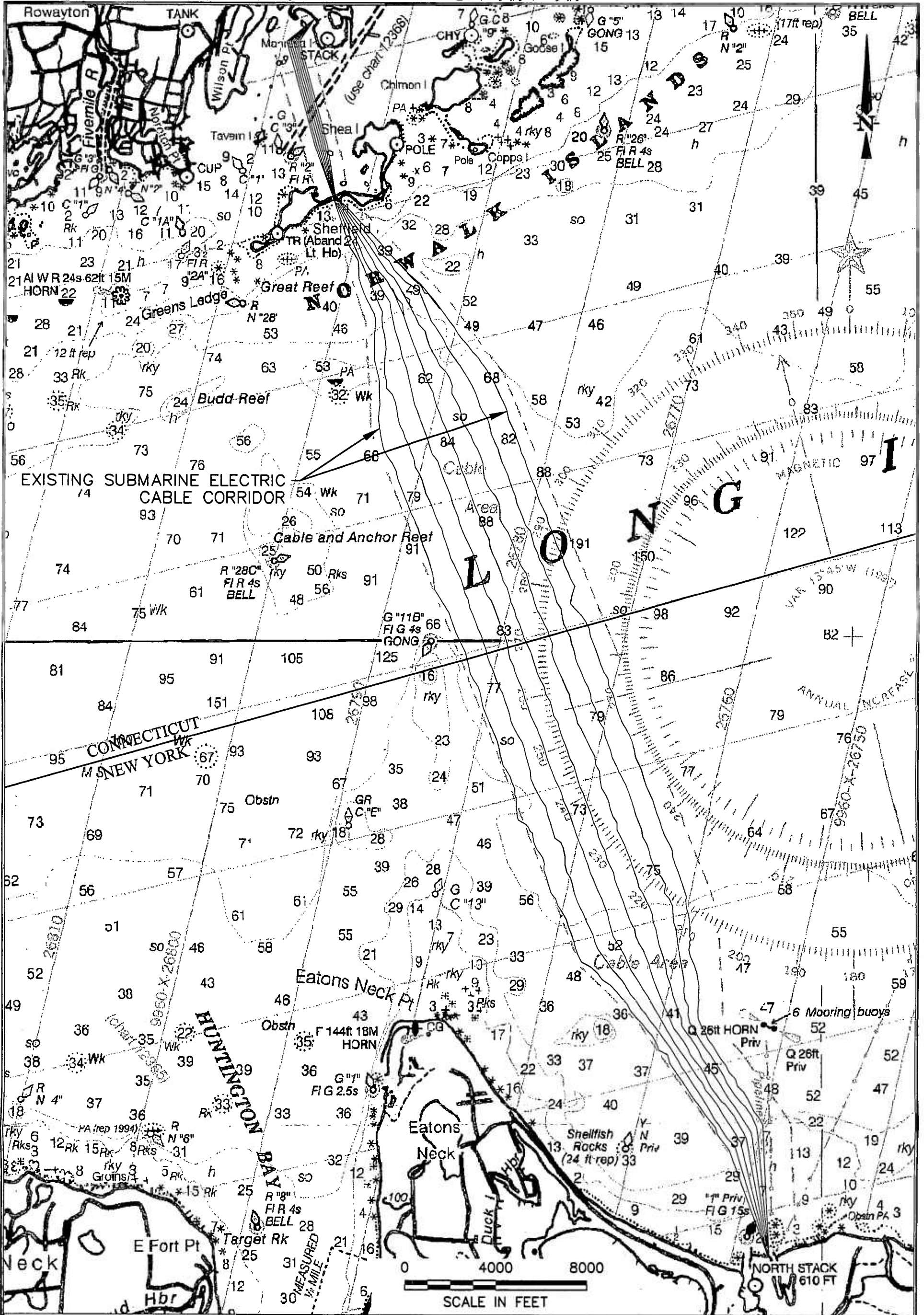
FIGURE NO.

2-5

PROJECT NO.

ESS





LIPA
Long Island Power Authority

Connecticut
Light & Power

LIPA-CL&P
Submarine Cable Replacement Project
Norwalk, CT - Northport, NY

Existing Cable Locations

FIGURE NO.
2-4

PROJECT NO.
K070.012.1

ESS

