

**80. ORDINANCE CONCERNING EXPENDITURES FOR THE DEPARTMENT OF UTILITIES 1992 ELECTRIC BOND FUND PROGRAM  
(MARCH 2, 1992)**

**BE IT ORDAINED BY THE MAYOR AND COUNCIL OF THE CITY OF GROTON:**

**Section 1.** Consistent with the recommendation of the City of Groton Utilities Commissioners and the approval of the City of Groton Planning and Zoning Commission, the expenditure of \$6,750,000 for the City of Groton Department of Utilities 1992 Electric Bond Fund Program is hereby approved.

**Phase One**

1-1. Buddington Substation Modifications

Upgrading of present supply line voltage, including the purchase and installation of a new transformer, circuit switcher, tie bus, circuit breakers, switches, busswork, and relaying;

1-2. Eastern Point Substation Modifications

Installation of metering transformers, supporting structures, and related equipment to meter electrical sales at the new 33,000 volt capacity;

1-3. 325 Line Reconstruction -- Buddington Substation to U.S. Navy Metering Station.

Upgrading of structures and replacement of conductor lines with 636 MCM steel supported aluminum cable conductors to accommodate increased purchase power requirements of the Navy Sub Base;

1-4. Miscellaneous Electrical System Improvements

1. Installation of additional capacitor banks - installation of a total of 10.8 MVARs capacitors through the installation of switched & fixed capacitors at various locations to improve the system's power factor during peak load periods.
2. Distribution ties:
  - a. Shennecossett Road - Construction of a tie line between the Trails Corner Substation Arwood Circuit and the Eastern Point Substation South Circuit.

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- b. Route 12 - (Under I-95) - Construction of a tie line between the Pleasant Valley Substation City Circuit and the Long Hill Substation North Circuit.
- 3. Reconductoring - Reconductoring the following distribution lines to provide additional circuit capacity:
  - a. Military Highway
  - b. North Road from the Industrial Park North to Route 184
- 4. Relay Modernization & Improvements
  - a. Trails Corner Substation - Modify differential relay on 2X transformer
  - b. Replace relaying at the Electric Boat Metering Station

**Phase Two**

2-1. 303 Line Reconstruction -- Poquonnock River Substation to Pfizer Metering Substation

Reconstruction of existing underground circuits from Poquonnock Road through the Groton-New London Airport and Shennecossett Golf Course and replacement of existing overhead conductor lines with 636 MCM steel supported aluminum cable conductors;

2-2. 304 Line Reconstruction --Buddington Substation to Poquonnock River Substation

Replacement of existing 350 MCM copper conductors rated for 34,500 kilowatts with 636 MCM steel supported aluminum cable conductors rated for 54,000 kilowatts;

2-3. 308 Line Construction -- Poquonnock River Substation to Pfizer Metering Substation.

Construction of a new circuit from Poquonnock Road through the Groton-New London Airport and Shennecossett Golf Course and replacement of existing overhead conductors with 636 MCM steel supported aluminum cable conductors;

2-4. 309 Line Reconstruction - Buddington Substation to the Poquonnock River Substation

Replacement of existing overhead conductors with 636 MCM steel supported aluminum cable conductors;

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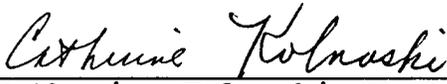
2-5. 322 Line Reconstruction -- Buddington Substation to Pleasant Valley Substation

Replacement of existing 322 Line conductors with 636 MCM steel supported aluminum cable conductors.

**Section 2.** This Ordinance (Ordinance #80) shall take effect upon final approval.

Initially approved: February 3, 1992

Finally approved: March 2, 1992

  
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Catherine Kolnaski, Mayor

  
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James C. Carlson, City Clerk