



Appendix C Inventory and Analysis of the Physical Environment: Utilities

I-84 Danbury PEL Study

Prepared for: The Connecticut Department of Transportation

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I-84 Danbury Project NEPA Environmental Assessment

Inventory and Analysis of the Physical Environment: Utilities

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Prepared for:

The Connecticut Department of Transportation

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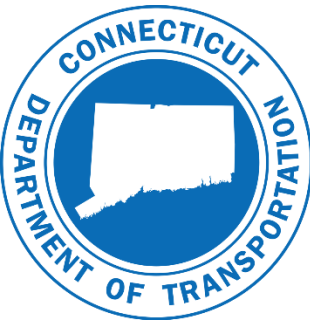
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Public Utilities and Service

1.1 Introduction, Regulatory Background, Methodology

This section provides information on existing utilities near I-84 in the City of Danbury and the Town of Bethel in Connecticut.

Information regarding the nature and extent of exiting utilities was compiled from consultation with the various utility companies that serve the area.

I-84 is a limited access roadway and the area around I-84 is serviced by utilities typical of an urban and suburban setting. Although there are no utilities that are carried by I-84, there are various utilities located in the project area as noted in Table 1-1 .

Table 1-1: Utility Companies

Service	Company	Formerly Known As*
Cable TV	Comcast of Connecticut, Inc.	
Communications	Level 3 Communications, LLC	
	Crown Castle Fiber	Lighttower Fiber Networks I, LLC
	Frontier Communications of Connecticut	The Southern New England Telephone Company (SNET)
Electric Distribution	Eversource Energy – Electric Distribution	The Connecticut Light and Power Company (CL&P)
Electric Transmission	Eversource Energy – Electric Transmission	The Connecticut Light and Power Company (CL&P)
Gas	Enbridge	Algonquin Gas Transmission Company
	Eversource Energy – Gas Distribution	Yankee Gas Services Company
Water	Aquarion Water Company of Connecticut	
	City of Danbury	
	Town of Bethel Public Works Department	

* Mapping typically references previous companies

1.2 Potable Water

Water service near I-84 is primarily provided by the City of Danbury. Drinking water for the area is surface water that primarily comes from the West Lake and Margerie Reservoirs. The reservoir water is treated at one of two water treatment plants located near the reservoirs (the West Lake and Margerie Water Treatment Plants). During dry periods the city of Danbury supplements the supply from East Lake, Padanaram, Upper Kohanza and Lower Kohanza Reservoirs, Boggs Pond and Lake Kenosia. Aquarion Water Company also services areas of Danbury and Bethel. The Aquarion Rolling Ridge system purchases its water from the City of Danbury and the Aquarion Chimney Heights system is supplied from ground water that is drawn from a local well (see Figure 2).

1.3 Sanitary Sewer

The City of Danbury provides sanitary sewer services near I-84. The City oversees the operation and maintenance of an extensive sewer system that includes 20 sewer pump stations, 164 miles of pipeline, 4,500 sewer manholes and a 9 million gallon per day wastewater treatment plant. The wastewater treatment plant is located approximately three quarters of a mile south of exit 8 off I-84 on Plumtrees Road (see Figure 1). Wastewater treated by the wastewater treatment plant is discharged into Limekiln Brook, which feeds into the Still River, before discharging to the Housatonic River and then Lake Lillinonah.

The Town of Bethel provides sanitary sewer services via a system that runs along Route 6. This line runs from the Bethel/Newtown border (at the east end) to Payne road (at the west end). There are also sewer facilities on the north side of I-84 in and around the Berkshire Industrial Park which includes a sewer pump station in the southwest corner of the park. This pump station discharges to a Danbury manhole along Newtown Road (see Figure 1). The Town of Bethel does not have its own sewage treatment plant and is currently operating under an Interlocal agreement with the City of Danbury to send its municipal sewage to their treatment facility. The daily capacity allowance as per the Interlocal agreement is 2 MGD.

1.4 Stormwater System

The City of Danbury's stormwater system consists of an extensive network of storm drainage piping, approximately 11,440 catch basins and approximately 1,355 outfalls. Most of the City's outfalls discharge into the Still River.

1.5 Electric Service

Electric service near I-84 is provided by Eversource Energy – Electric Distribution and Transmission (formerly The Connecticut Light and Power Company). Eversource's facilities in Danbury include the Plumtree substation, Brookfield Junction and Stony Hill substation. The transmission lines that connect the Brookfield Junction and the Plumtree substation cross over I-84 near the westbound exit 8 off-ramp (see Figure 1).

Eversource Energy – Electric Transmission has two 6" transmission conduits that run underground in Franklin Street and underneath I-84 (see Figure 1).

Mapping provided by Eversource showed numerous utility ducts that cross over or under I-84. The utility ducts that cross over I-84 are carried by the bridge superstructure of the crossing street. The utility ducts that cross under I-84 are typically in a duct underground in the roadway that crosses under I-84.

1.5 Natural Gas

Natural gas service near I-84 is provided by Eversource Energy – Gas Distribution (formerly Yankee Gas Services Company). Mapping provided by Eversource showed numerous utility ducts that cross over or under I-84. The utility ducts that cross over I-84 are carried by the bridge superstructure of



the crossing street. The utility ducts that cross under I-84 are typically in a duct underground in the roadway that crosses under I-84.

Enbridge (formerly The Algonquin Gas Transmission Company) owns and operates two high pressure gas lines (a 42" diameter and a 30" diameter) that run underground through Danbury. These two lines cross under I-84 near the Connecticut Welcome Center at exit 2 and then runs along the north side of I-84 to a facility adjacent to the interstate near exit 7 and beyond (see Figure 1).

1.6 Communications

There are three companies that provide communications services near I-84; Comcast of Connecticut, Inc., Crown Castle Fiber (formerly Lighttower Fiber Networks I, LLC) and Frontier Communications of Connecticut (formerly The Southern New England Telephone Company). Information provided by Comcast indicated that there were facilities that cross I-84. Most of the crossings are underground in the roadways that travel underneath I-84. There are two crossings that cross aerially on utility poles on roads that cross over I-84.

Communication services are also provided Crown Castle Fiber (formerly Lighttower Fiber Networks I, LLC). Information provided by Crown Castle Fiber indicated that there were facilities that cross I-84. There are facilities that cross underground in the roadways that travel underneath I-84. There are also facilities that cross aerially on utility poles on roads that cross over I-84. Crown Castle Fiber considers all these facilities to be backbone or major feeds (see Figure 1).

Communication services are also provided by Frontier Communications of Connecticut (formerly The Southern New England Telephone Company). Information provided by Frontier Communications indicated that there were facilities that cross I-84. There are facilities that cross underground in the roadways that travel underneath I-84, and there are facilities that are carried by bridges that cross over I-84.

1.6 Considerations

The existing utilities will need to be considered for the various alternatives of this project. The main concern are potential impacts with transmission facilities that cross over or under I-84, including the underground Eversource lines at Franklin Street and the Eversource transmission lines that cross over I-84 in Bethel near exit 8.

There are also concerns with facilities at various bridge crossings. Most of the roads that cross over I-84 have utility lines that are carried by the bridge. Additionally, most of the roads that cross under I-84 have underground utility lines (see Table 1-2). These utilities will need to be coordinated with if the chosen alternative will interfere with them.

Not only do the potential physical impacts to utilities need to be understood, but any project alternatives evaluated shall consider measures for providing temporary services during construction which may result in additional impacts (environmental, right-of-way, etc. and added time and cost to the overall project as well.

Table 1-2: Utility Location Matrix

Street Crossing	Overhead (OH) or Undergrade (UG) Bridge (with respect to I-84)	Company									
		Enbridge (formerly Algonquin Gas)	Frontier Communications of CT (formerly SNET)	Eversource Energy – Gas Distribution (formerly Yankee Gas)	Comcast of Connecticut	Eversource Energy – Electric Transmission (formerly CL&P)	Eversource Energy – Electric Distribution (formerly CL&P)	Crown Castle Fiber (formerly Lighttower Fiber Networks)	Town of Bethel DPW	City of Danbury	Aquarion Water Company of CT
Old Ridgebury Rd	OH	✓									
Backus Ave	UG						✓				
Danbury Mall Entrance Under Rt 7	UG			✓							
Lake Ave	UG		✓	✓			✓	✓			
Westville Ave	OH		✓	✓			✓				
Franklin St	UG		✓	✓	✓	✓		✓			
Kohanza St	UG				✓						
Starr Ave	UG			✓							
Main St	UG		✓	✓							
Madison Ave	OH			✓			✓	✓			
North St	UG			✓			✓				
Tamarack Ave	UG		✓	✓	✓		✓	✓			
Great Plain Rd	UG		✓		✓			✓			
Rockwell Rd	UG	✓		✓							
Federal Rd	UG		✓	✓			✓	✓			
Federal Rd Under Rt. 202	UG			✓							
Eagle Rd	UG		✓	✓							
Newtown Rd	OH		✓	✓	✓		✓	✓	✓		
Garella Rd	OH		✓	✓	✓			✓			
Vail Rd	OH							✓			
Rt 6	OH								✓		

Legend

Underground

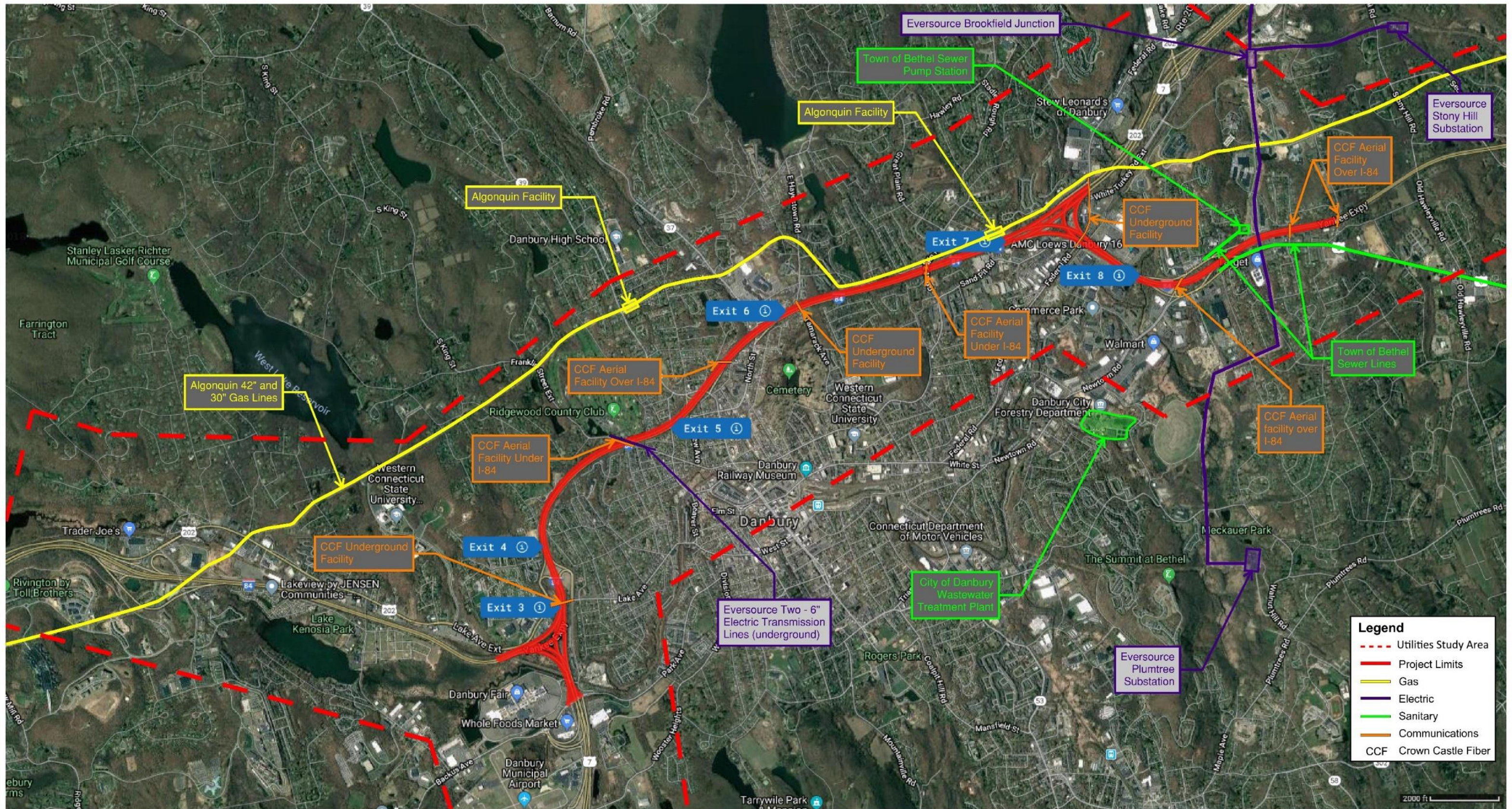
Carried by Bridge

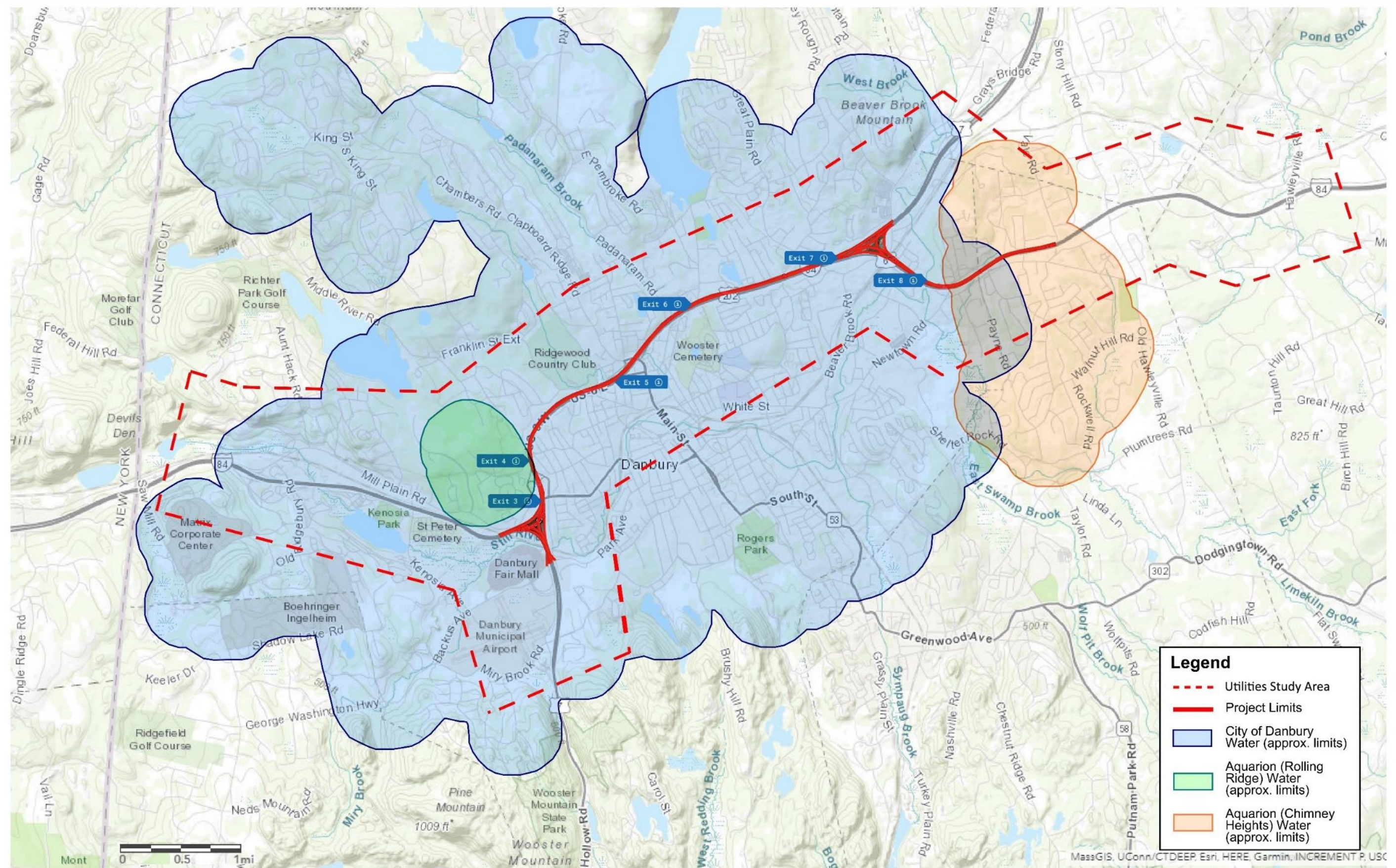
Aerial Under Bridge

Aerial on Top of Bridge

No Response to Outreach







Back-up Materials

- 1. CTDOT Utility by Town List *(Bethel)*
- 2. CTDOT Utility by Town List *(Danbury)*
- 3. CTDOT - Utility Contact L



UTILITY BY TOWN LIST

Bethel

TOWN NUMBER: 9

DISTRICT NUMBER: 4

Cable TV

Comcast of Connecticut, Inc

Communication

Level 3 Communications, LLC

Lighttower Fiber Networks I, LLC

dba Crown Castle Fiber

The Southern New England Telephone Company

dba Frontier Communications of Connecticut

Electric Distribution

The Connecticut Light and Power Company

dba Eversource Energy - Electric Distribution

Electric Transmission

The Connecticut Light & Power Company

dba Eversource Energy - Electric Transmission

Gas

Algonquin Gas Transmission Company

dba Enbridge

Yankee Gas Services Company

dba Eversource Energy - Gas Distribution

Railroad

Metro-North Commuter Railroad Company

Water

Aquarion Water Company of Connecticut

Town of Bethel Public Works Department

UTILITY BY TOWN LIST

Danbury

TOWN NUMBER: 34

DISTRICT NUMBER: 4

Cable TV

Comcast of Connecticut, Inc

Communication

Level 3 Communications, LLC

Lighttower Fiber Networks I, LLC

dba Crown Castle Fiber

The Southern New England Telephone Company

dba Frontier Communications of Connecticut

Electric Distribution

The Connecticut Light and Power Company

dba Eversource Energy - Electric Distribution

Gas

Algonquin Gas Transmission Company

dba Enbridge

Yankee Gas Services Company

dba Eversource Energy - Gas Distribution

Railroad

Housatonic Railroad

Metro-North Commuter Railroad Company

Water

Aquarion Water Company of Connecticut

City of Danbury

CTDOT - Utility Contact List

Algonquin Gas Transmission Company dba Enbridge

Mr. Kenneth Ruel,
Area Supervisor
252 Shunpike Road
Cromwell, CT 06416

PHONE: (860) 894-1600 **EXT:** 1608

Mobile: 860-982-1806

E-MAIL: Kenneth.Ruel@enbridge.com

Aquarion Water Company of Connecticut

Mr. Carlos Vizcarrondo,
Relocations Coordinator
600 Lindley Street
Bridgeport, CT 06606

PHONE: (203) 337-5950 **EXT:** **Mobile:** (203) 395-3097

E-MAIL: cvizcarrondo@aquarionwater.com

Town of Bethel Department of Public Works

Mr. Douglas Arndt,
Director of Public Works
1 School Street
Bethel, CT 06801

PHONE: (203) 794-8549 **EXT:**

Mobile:

E-MAIL: PublicWorks@bethel-ct.gov

Comcast of Connecticut, Inc

Mr. Jim Bitzas,
Sr. Manager of Western New England
1110 East Mountain Road
Westfield, MA 01085

PHONE: (413) 562-9923 **EXT:** 5783252

Mobile: (617)279-7485

E-MAIL: jim_bitzas@cable.comcast.com

The Connecticut Light & Power Company dba Eversource Energy - Electric Transmission

Mr. Daniel J. Garstka,
Senior Engineer - Transmission Siting
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Hartford, CT 06103

PHONE: (860) 728-4533 **EXT:** **Mobile:**

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The Connecticut Light and Power Company dba Eversource Energy - Electric Distribution

Mr. Thomas Woronik,
Supervisor - Construction Engineering
22 East High Street
East Hampton, CT 06424

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City of Danbury

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Director of Public Works
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Level 3 Communications, LLC

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Lighttower Fiber Networks I, LLC dba Crown Castle Fiber

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Manager Fiber Construction
1781 Highland Avenue, Suite 102
Cheshire, CT 06410

PHONE: (203) 649-3904 EXT: Mobile: 860-863-8311
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The Southern New England Telephone Company dba Frontier Communications of Connecticut

Ms. Lynne DeLucia,
Manager - Engineering & Construction
1441 North Colony Road
Meriden, CT 06450-4101

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Yankee Gas Services Company dba Eversource Energy - Gas Distribution

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157 Cordaville Rd
Southborough, MA 01772

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