

Public Information Meeting

Project 69-77

Replacement of Bridge No. 02486

Durham Road (CT Route 79)

over

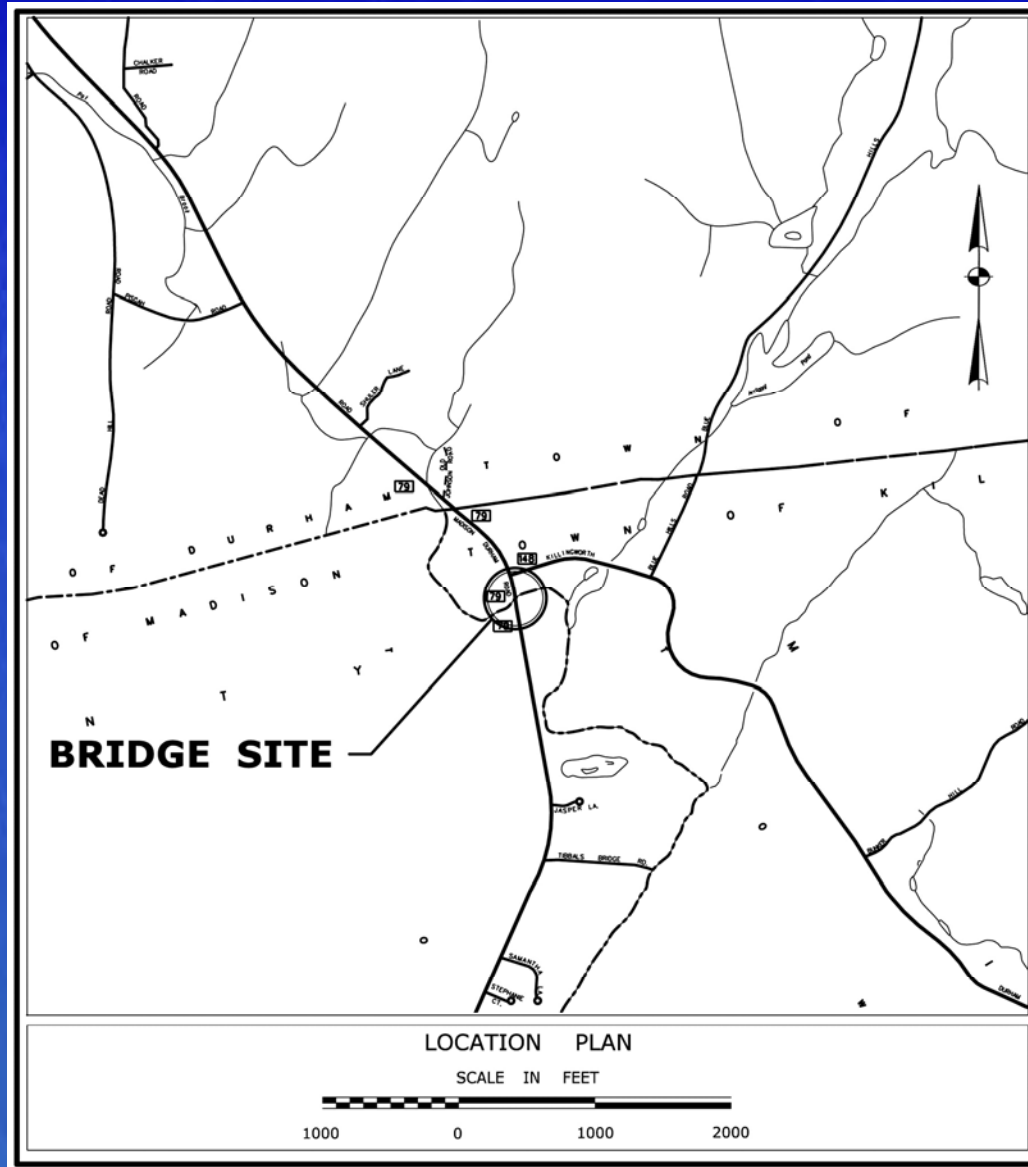
Hammonasset Brook

Madison/Killingworth, Connecticut

Connecticut Department of Transportation



Project Location



Connecticut Department of Transportation



ConnDOT Role

Bureau of Engineering and Construction

- Responsible for engineering design, construction, and inspection of transportation projects

**Contacts: Mr. Scott A. Hill, PE
(Manager of Bridges & Facilities)**

**Mr. David Cutler, PE
(Project Manager)**

**Ms. Michelle Lynch, PE
(Project Engineer)**

Connecticut Department of Transportation



Lenard Engineering, Inc. Consultant Engineers

ConnDOT has retained Lenard Engineering, Inc. (LEI) to provide the design of this bridge project.

Contacts: Mr. James R. Bancroft, P.E.
(General Manager)

Mr. Paul Magyar, P.E.
(Project Manager)



Reasons for Project

Structure recommended for full replacement under the List 19S Bridge Program for the following reasons:

- Structurally Deficient superstructure
- Structurally Deficient substructure
- "Poor" Superstructure Rating (4 on scale of 0–9)
- Hydraulically inadequate existing opening (14 feet)
- Functionally obsolete existing bridge parapet

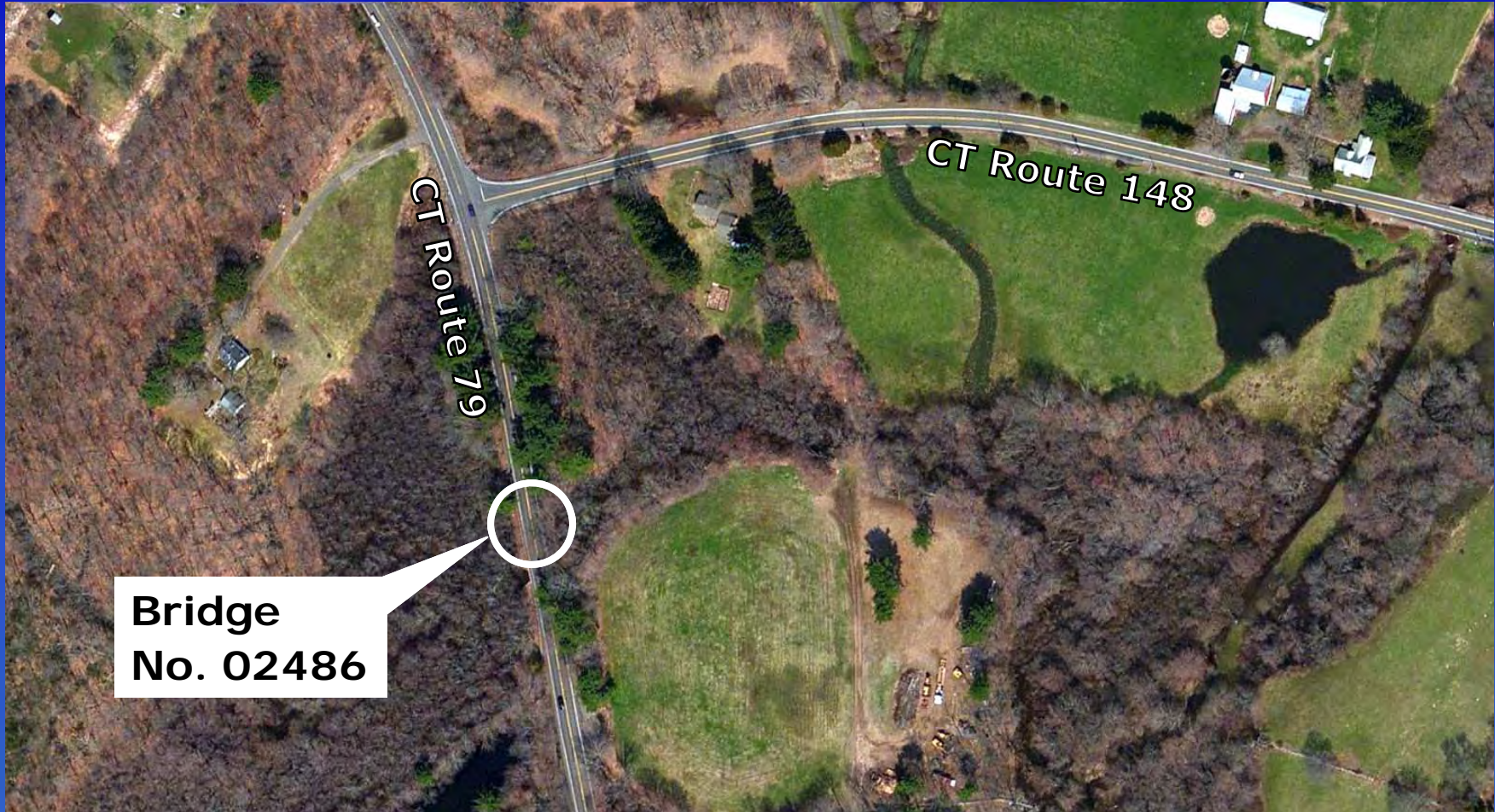


Project Goals

- Improve safety at this crossing
- Replace Bridge No. 02486 with structurally and hydraulically code-compliant new structure
- Minimize disturbance to traveling public
- Complete construction in a timely manner
- Effectively use funds



Aerial View of Bridge No. 02486



Connecticut Department of Transportation





Downstream Elevation Looking West

Connecticut Department of Transportation





Upstream Elevation
Looking Northeast

Connecticut Department of Transportation





Road Alignment

Looking North

Connecticut Department of Transportation





Road Alignment

Looking South

Connecticut Department of Transportation



Existing Bridge Description

- **Single span structure built in 1930**
- **Structure Dimensions**
 - Total Length = 21 ft, single span
 - Overall Width = 30.0 ft
 - Roadway width = 23.0 ft
- **Straight horizontal alignment**
- **Minimal crest vertical curve over watercourse**
- **Carries one lane of traffic in each direction**
 - Estimated Average Daily Traffic (ADT) ~ 5,900 vehicles (2008)

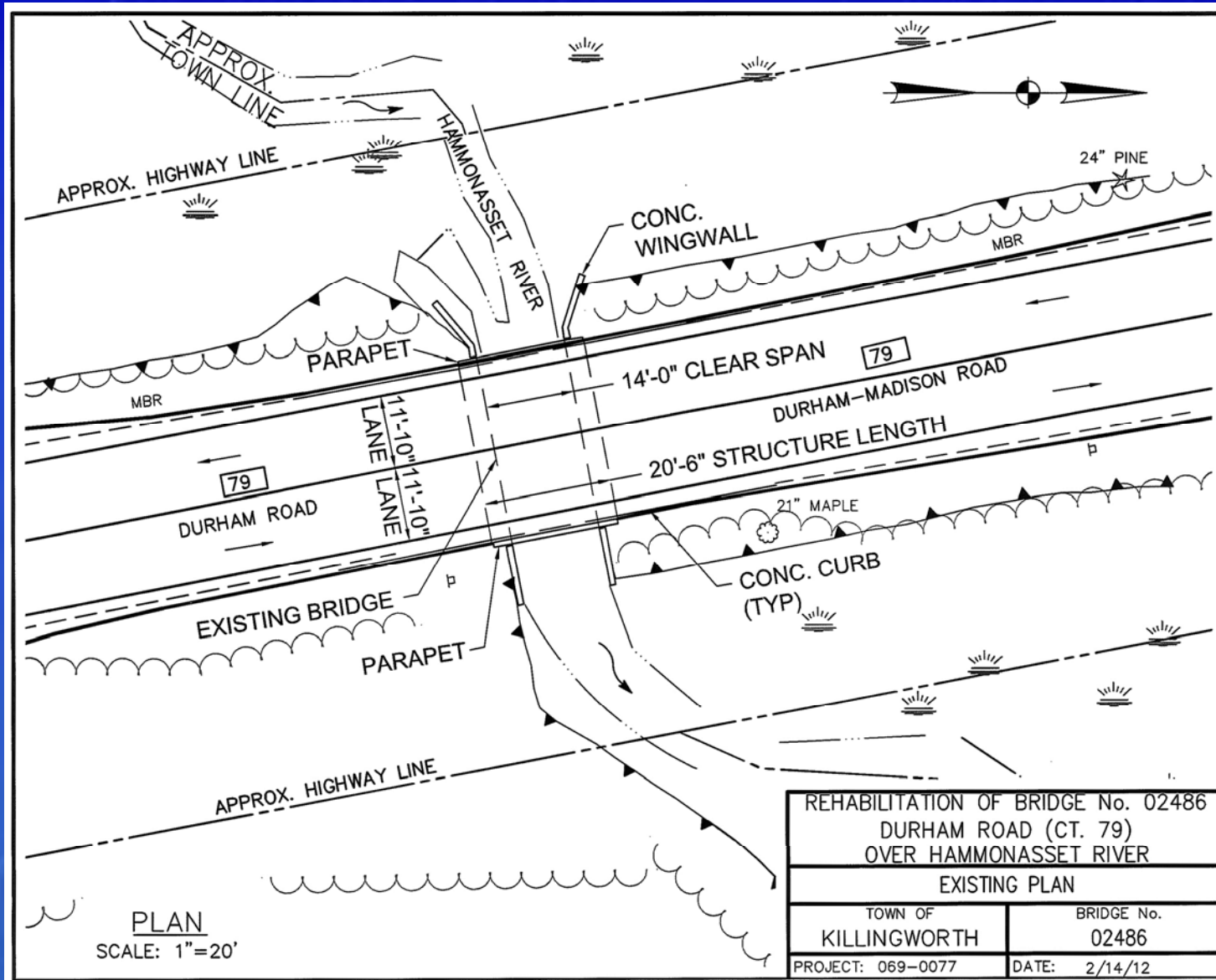


Existing Bridge Description

- **Superstructure consists of:**
 - Cast-in-place concrete deck, parapets and curbs
- **Substructure consists of:**
 - Cast-in-place concrete abutments and wingwalls



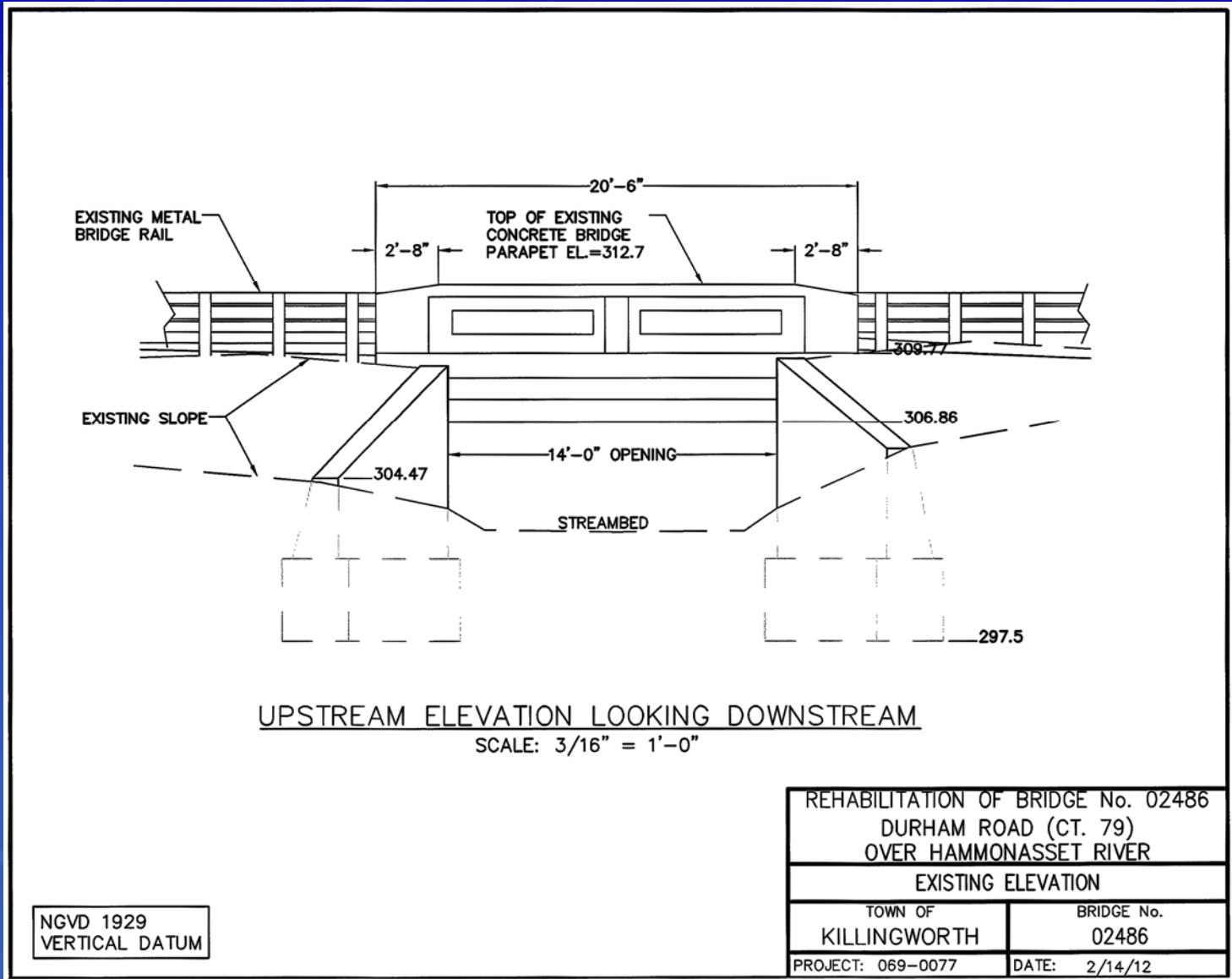
Existing Bridge



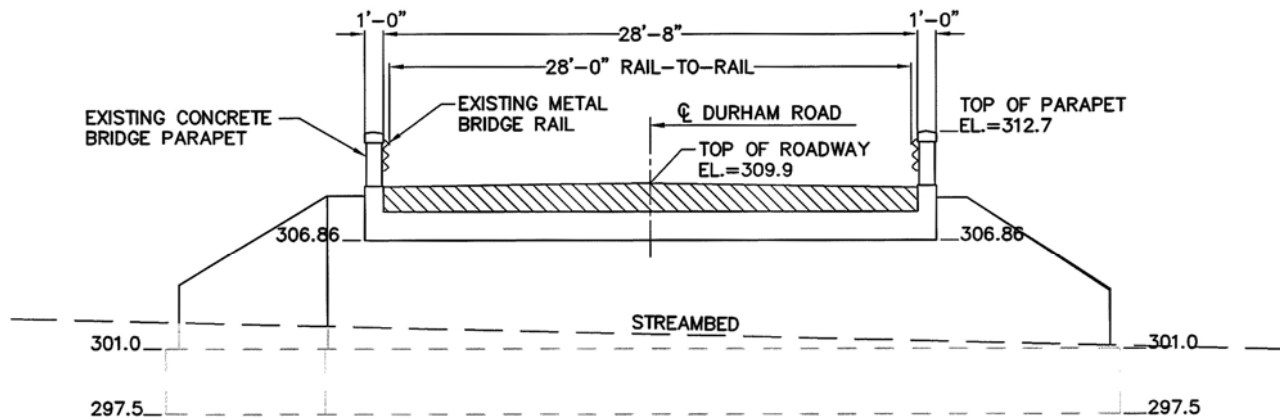
Connecticut Department of Transportation



Existing Bridge



Existing Bridge



SECTION LOOKING NORTH
SCALE: 1/8" = 1'-0"

REHABILITATION OF BRIDGE No. 02486 DURHAM ROAD (CT. 79) OVER HAMMONASSET RIVER	
EXISTING SECTION	
TOWN OF KILLINGWORTH	BRIDGE No. 02486
PROJECT: 069-0077	DATE: 2/14/12

NGVD 1929
VERTICAL DATUM

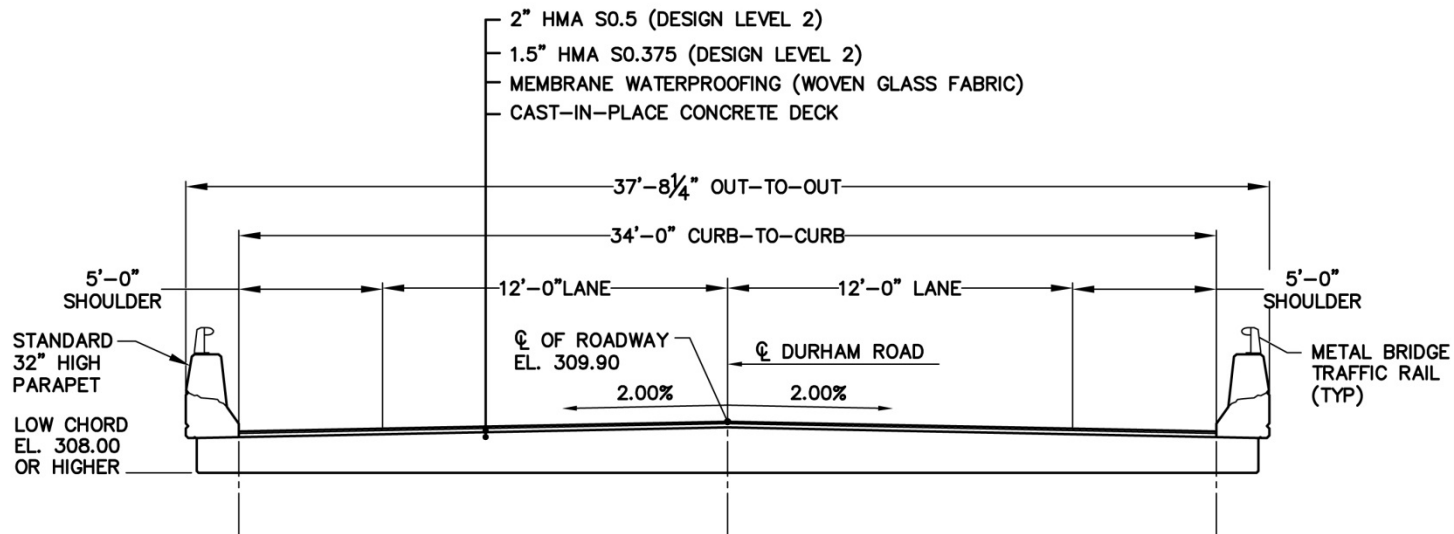


Proposed Construction

- Replace superstructure with a single span cast-in-place concrete slab superstructure
- Deck will consist of 9.0" average thick concrete slab
- Reconstruct existing abutments and wingwalls on pile foundation
- Improve safety of approach roadways
- Staged construction — alternating traffic will be maintained on one lane during the entire length of the construction
- Bridge opening and deck elevation will be increased for improved hydraulics



Proposed Construction



SECTION (ALTERNATE 2)

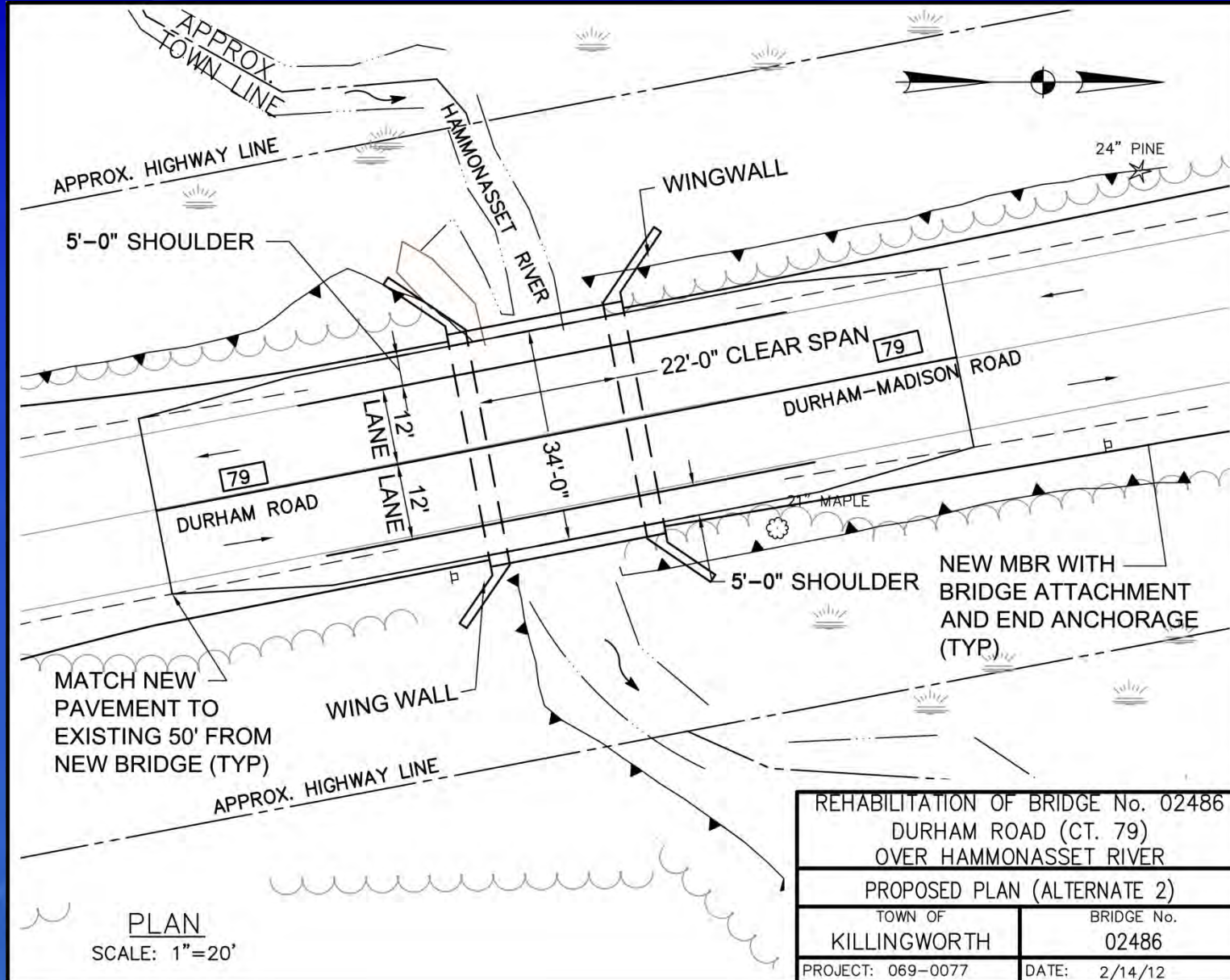
SCALE: 3/16" = 1'-0"

NGVD 1929
 VERTICAL DATUM

REHABILITATION OF BRIDGE No. 02486 DURHAM ROAD (CT. 79) OVER HAMMONASSET RIVER	
PROPOSED SECTION (ALTERNATE 2)	
TOWN OF KILLINGWORTH	BRIDGE No. 02486
PROJECT: 069-0077	DATE: 2/14/12



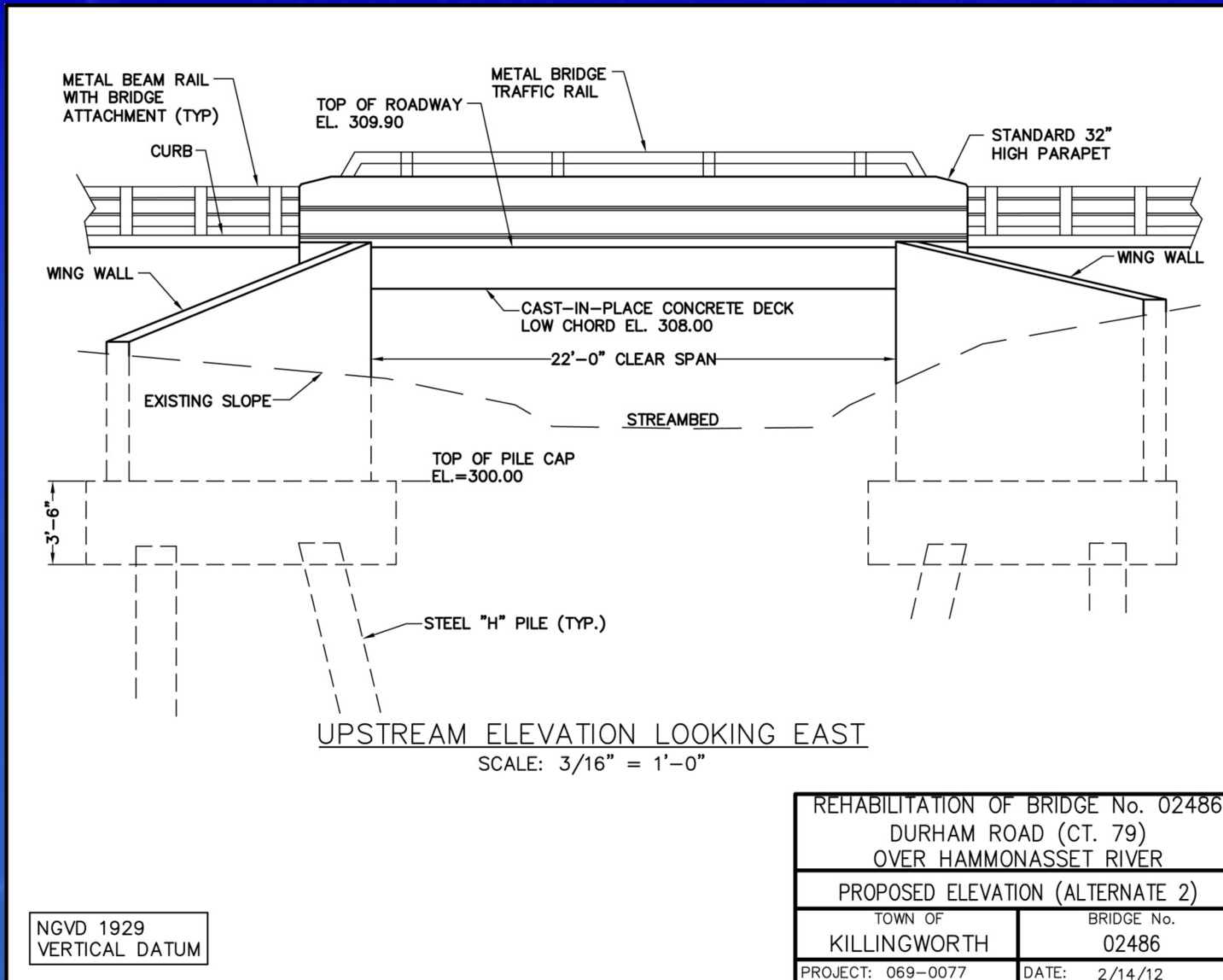
Proposed Construction



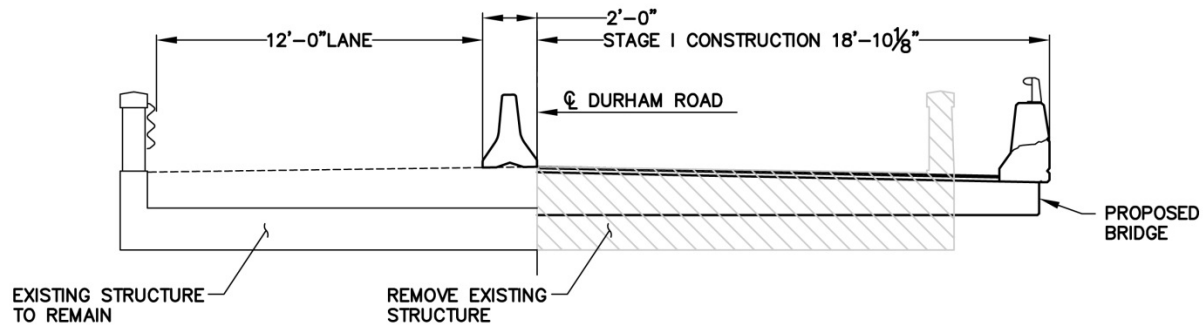
Connecticut Department of Transportation



Proposed Construction



Proposed Construction



STAGE 1 REMOVAL AND CONSTRUCTION (ALTERNATE 2)

SCALE: 3/16" = 1'-0"

NGVD 1929
VERTICAL DATUM

REHABILITATION OF BRIDGE No. 02486 DURHAM ROAD (CT. 79) OVER HAMMONASSET RIVER	
STAGE 1 (ALTERNATE 2)	
TOWN OF KILLINGWORTH	BRIDGE No. 02486
PROJECT: 069-0077	DATE: 2/14/12

Connecticut Department of Transportation



Environmental Considerations

- Wetland areas are known to exist within project limits
- No known contaminated and/or hazardous materials expected within project limits
- Best management practices will be utilized to handle sedimentation control during construction and to protect wildlife in the stream channel



Public Utilities

Utilities at the bridge site consist of:

- Overhead AT&T telecommunication line along the west side of the road
- CTDOT will conduct a utility coordination meeting in the near future with the utility company.

Utilities will be maintained in place or relocated as necessary during the proposed construction activities.



Rights-of-Way

Impacts (temporary or permanent) to private properties are not anticipated.

Contact: Mr. Derrick Ireland



Project Cost

The estimated construction cost for the entire project is approximately \$1,000,000.



Project Schedule

The project is anticipated to be constructed starting in Spring 2016.

Project duration estimated to be one construction season of approx. 8 months.

The schedule is preliminary and is predicated upon the availability of funding.



Contact Information

- **ConnDOT**

Mr. David Cutler, PE
2800 Berlin Turnpike, P.O. Box 317546
Newington, Connecticut 06131-7546

- **Lenard Engineering, Inc.**

Mr. Paul Magyar, PE
2210 Main Street
Glastonbury, CT 06033
860-659-3100



THANK YOU...

FOR YOUR TIME AND ATTENTION

Connecticut Department of Transportation
and
Lenard Engineering, Inc.

Connecticut Department of Transportation

