State Project 0172-0477: Reinstallation and Removal of Horizontal Curve Warning Signs on State Roads in District 2, Virtual Public Information Meeting

Live Event: Thursday, April 7th 2022 6:30 PM

Join us for a Question and Answer session following the formal presentation and send us a question or a comment during the session.

Project Email:

DOTProject172-447@ct.gov

Phone: (860) 944-1111 (voicemail only)

Visit the Project Webpage:

http://portal.ct.gov/DOT172-0477



A recording of this presentation will be posted after the live event. Closed captioning, including non-English translation options, will be available at that time.

La grabación de esta presentación estara disponible despues del evento en YouTube, incluyendo subtitulos y acceso a traducciones en otros idiomas.

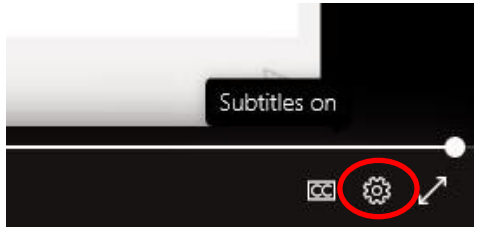
How to View Captions or Subtitles

Captions / Subtitles (MS Teams only)

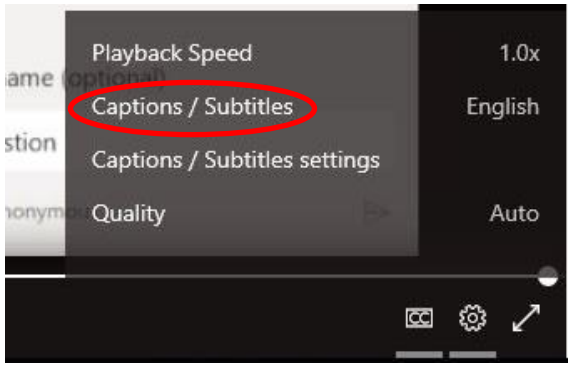
1) Select “CC” at bottom right



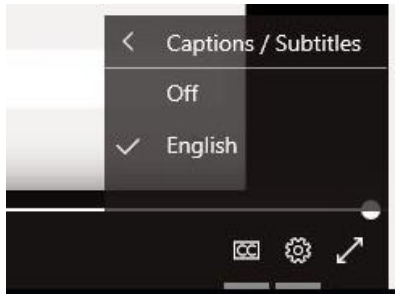
2) Select Settings wheel



3) Select “Captions / Subtitles”



4) Select desired language



Available Languages:
- English
- Spanish

Virtual Public Information Meeting Overview

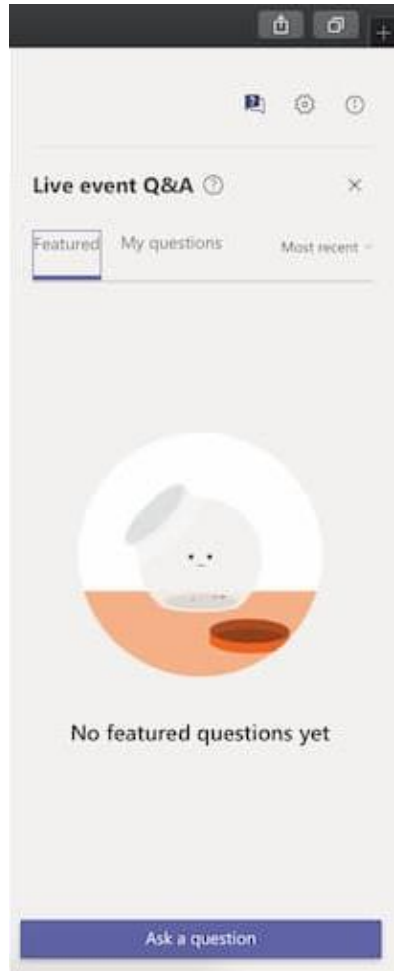
Join us for a **Question & Answer Session** following the formal presentation & send a question or comment via:

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Telephone: (860) 944-1111

Chat: Teams Live Event Chat

Moderator will Post Questions to the Microsoft Teams Live Q&A Window under 'Featured' Tab



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Title VI – Civil Rights

- Feedback Survey appreciated.

https://survey123.arcgis.com/share/8f49e1ad5d3946d083f71825ee49f67f

- Civil Rights flyer available.
  - https://portal.ct.gov/-/media/DOT/documents/ddbe/TitleVIFlyerEnglishwSafeHarborpdf.pdf

- No Person shall, on the basis of race, color or national origin, be excluded from participation or subject to discrimination in the development of this project.

Project Representatives



Natasha Fatu, P.E., PTOE
State Safety Engineer
Project Manager



Steve Bruno
Project Engineer/Presenter



Rob Smith
Transportation Engineer/Presenter



Claire Sylvestre
Transportation Engineer/Moderator



Santosh Patel
Transportation Engineer/Moderator

Agenda

- Curve Crash History in Connecticut
- Curve Sign Benefits and Requirements
- Curve Selection and Design
- Sign Installation and Removal Quantities
- Project Timeline & Cost
- Q & A Session

Curve Crashes in Connecticut

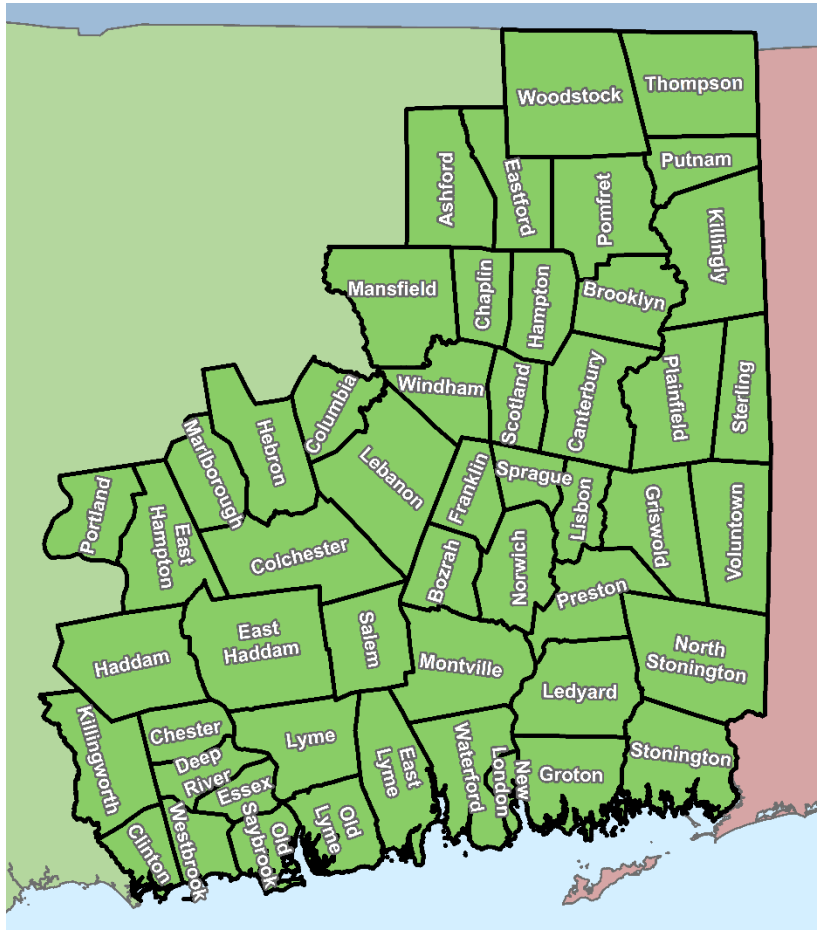
1/1/2019 - 12/31/2021

- 280,000 crashes in Connecticut
  - 32,000 (12%) crashes on curves in CT
- 73,000 (26%) fatal & injury crashes in Connecticut
  - 10,000 (13%) fatal & injury crashes on curves in CT
- 800 (<1%) fatal crashes in Connecticut
  - 250 (31%) fatal crashes on Curves in CT

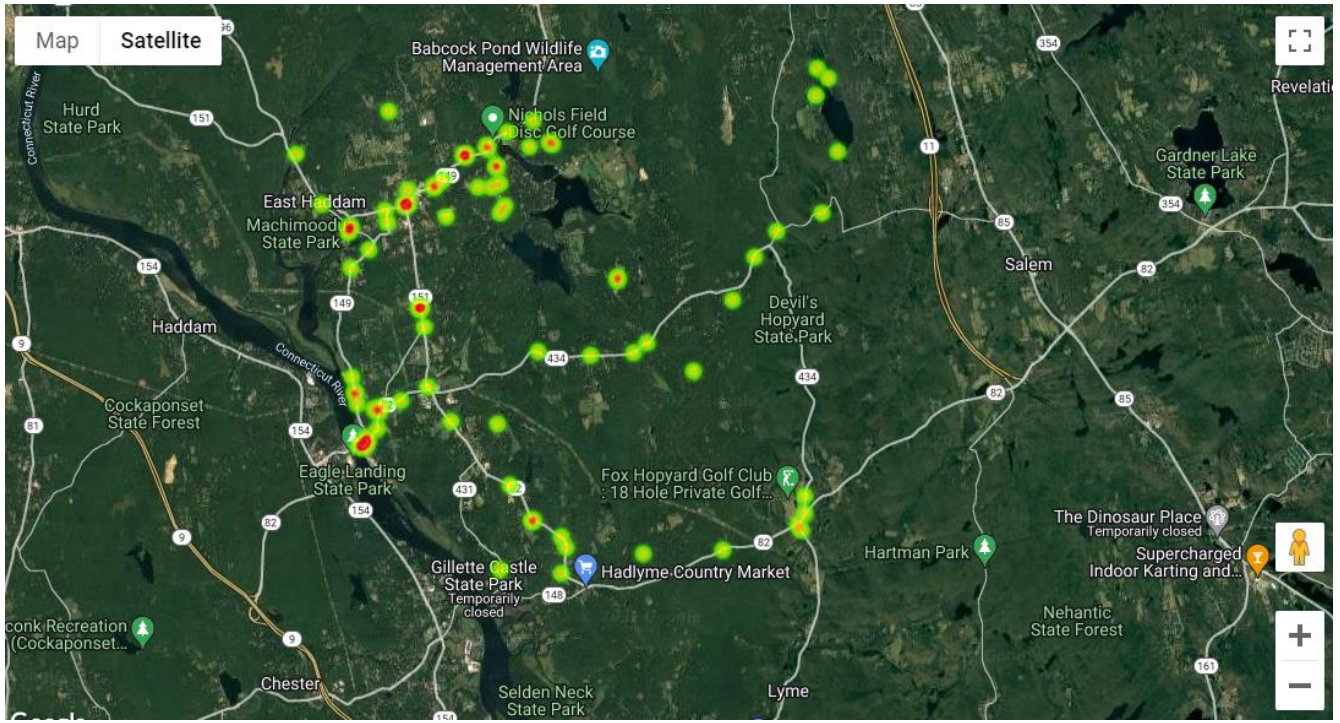
Curve Crashes in District 2

1/1/2019 - 12/31/2021

- 28,000 Crashes in District 2
- 19,000 Crashes on State Roads (3,000 on curves)
  - 121 resulted in fatalities
  - 54 of those fatalities occurred on curves



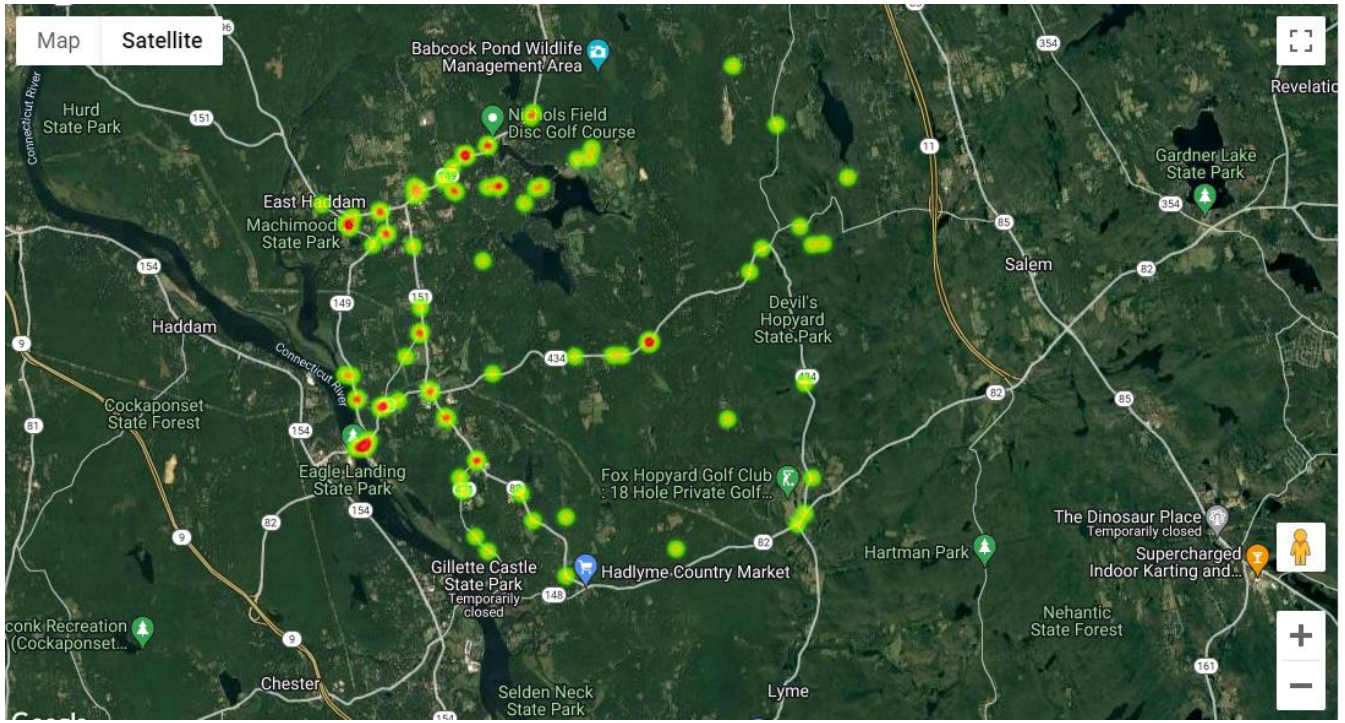
Proactive Approach with Warning Signs



Crash Pattern Example:

East Haddam 2019

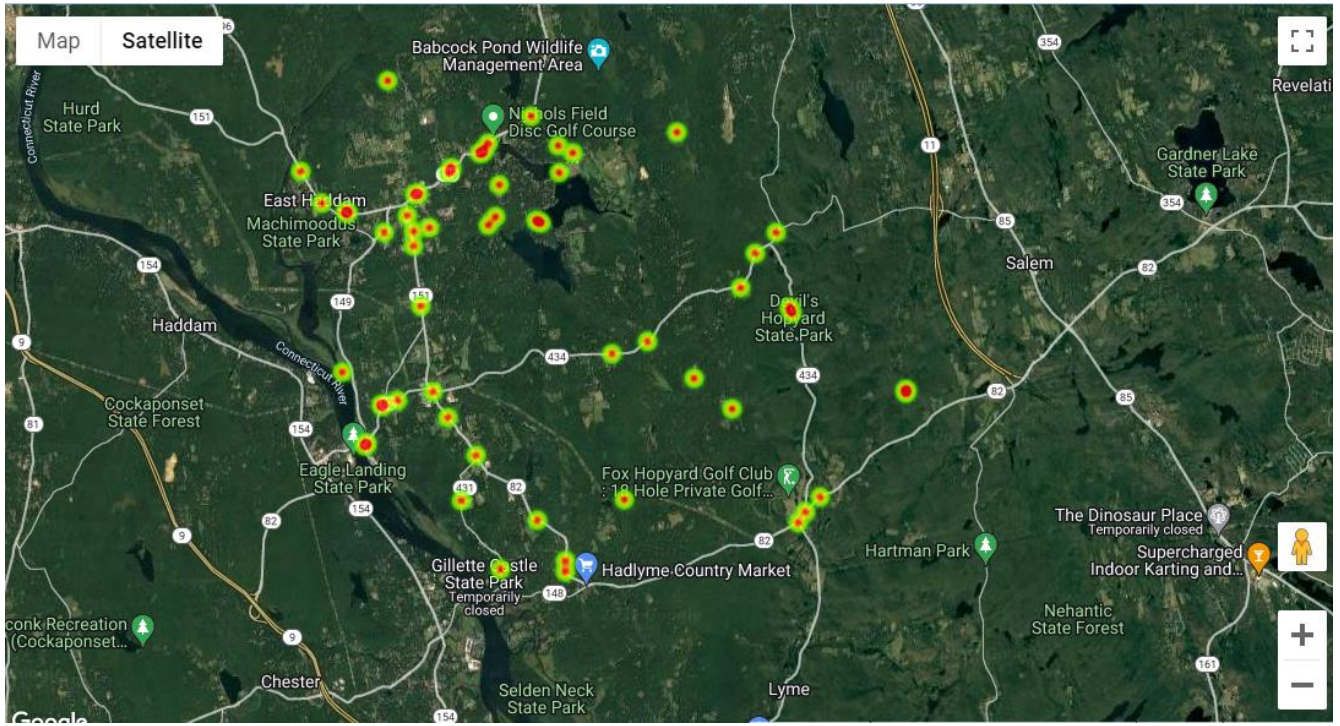
Proactive Approach with Warning Signs



Crash Pattern Example:

East Haddam 2020

Proactive Approach with Warning Signs



Crash Pattern Example:

East Haddam 2021

Federal requirement for states to provide appropriate signage at horizontal curves to proactively attempt to reduce crashes on <u>all</u> roads.

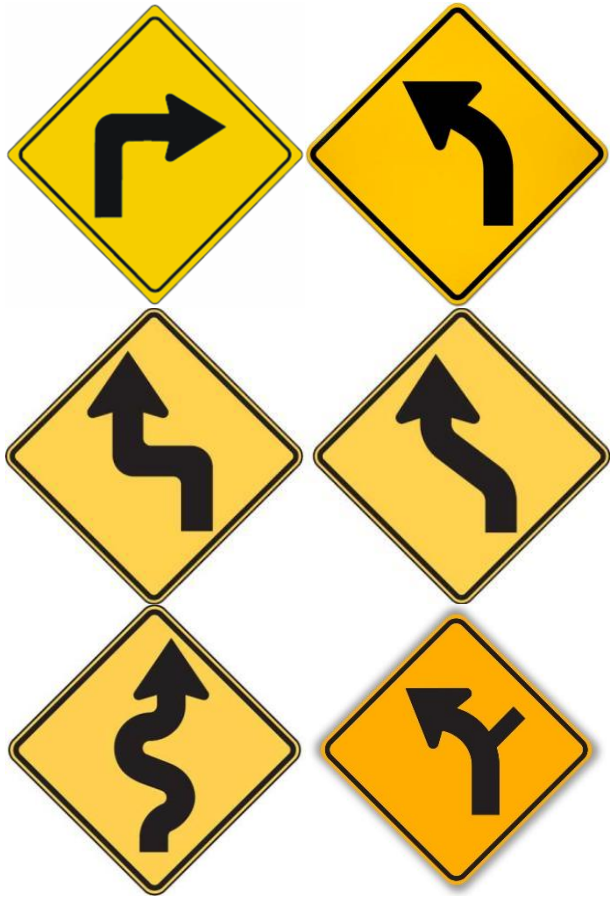
Why Signs?



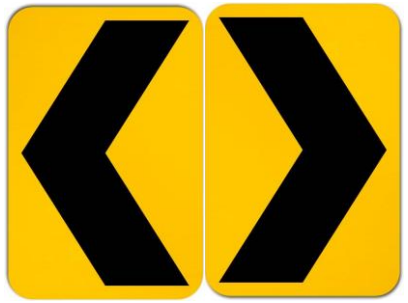
- **Low Advisory Speed**
- **Intersection in Curve**
- **Curve on a Hill**

Typical Warning Signs at Curves

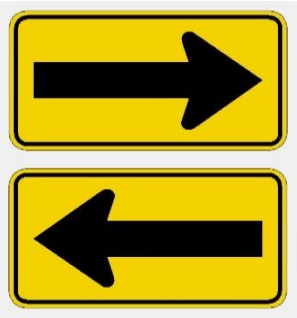
Advance Warning Signs



Chevrons



One Direction Large Arrows



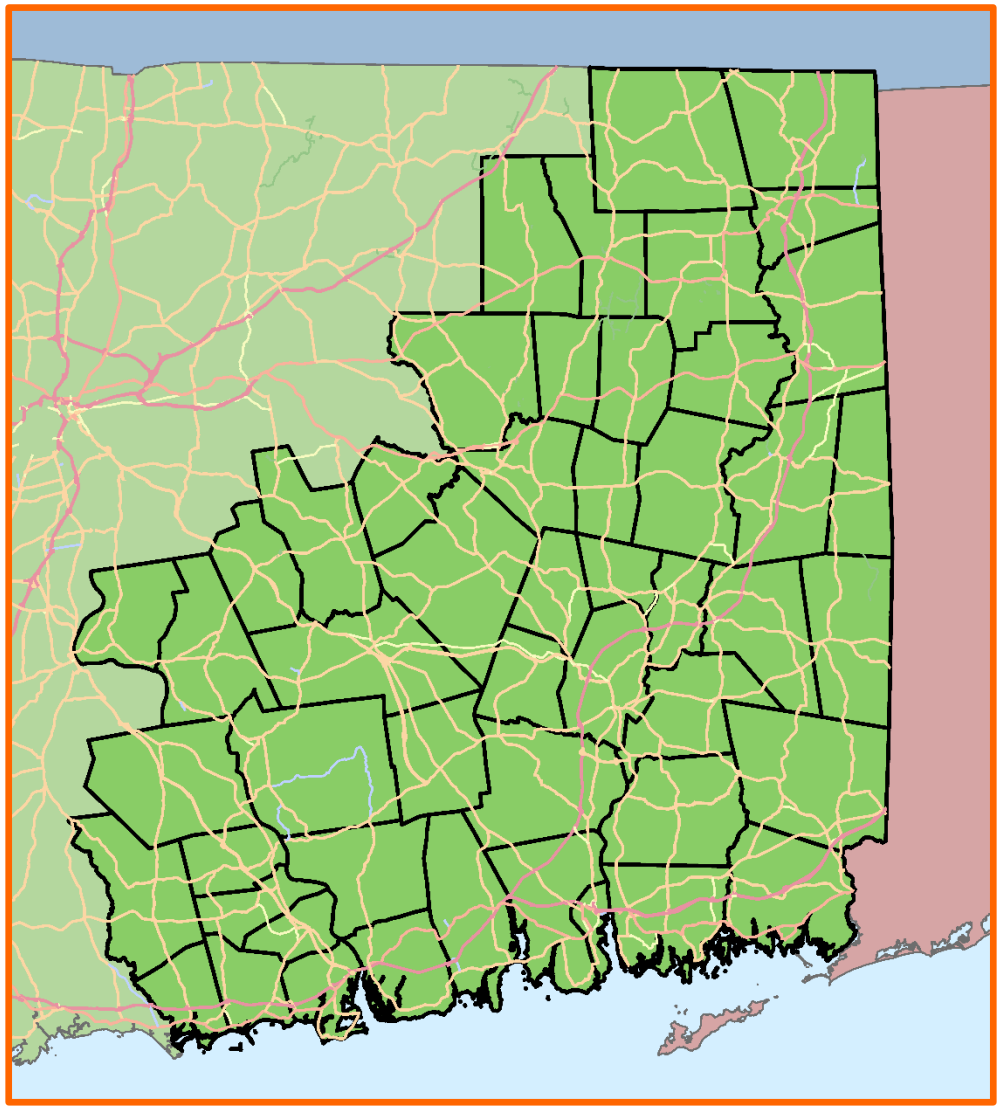
Advisory Speed Plaque



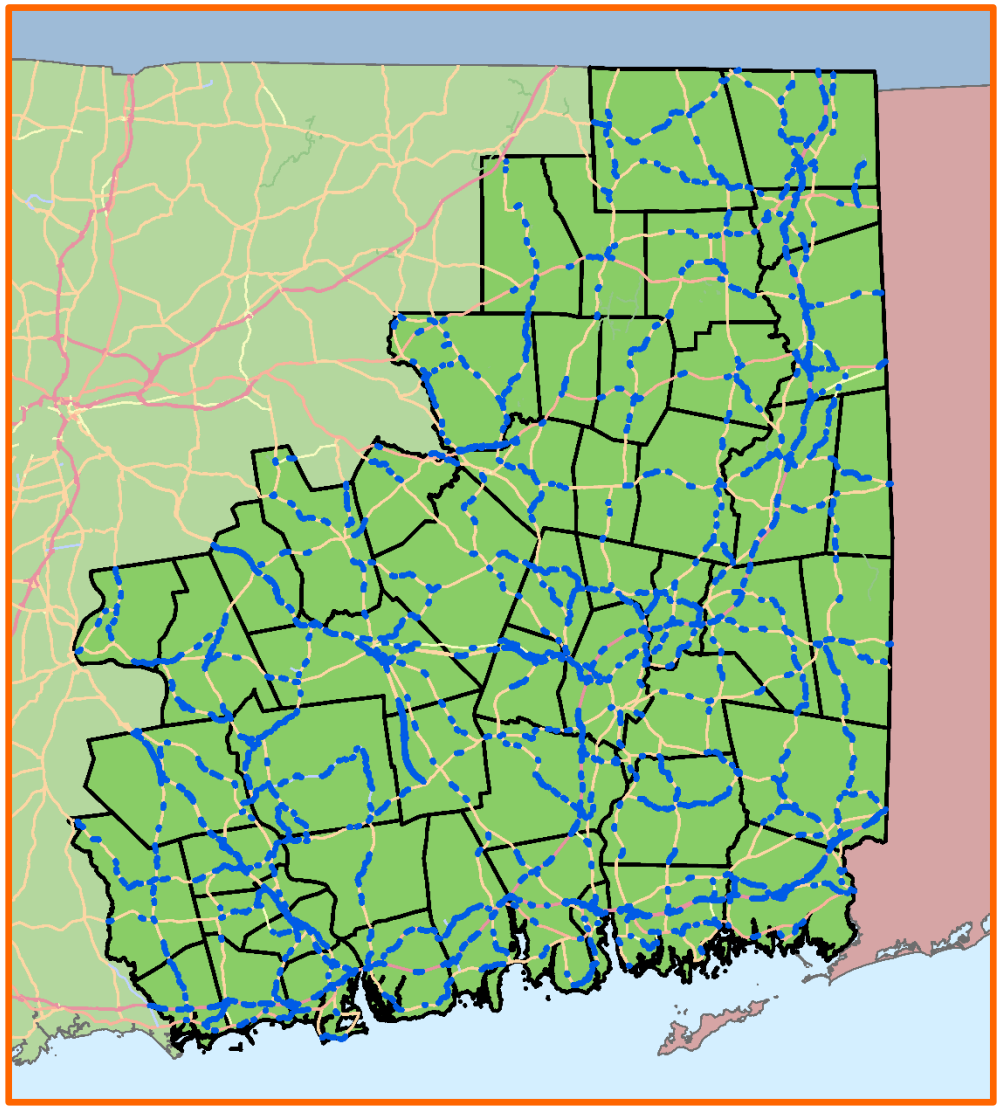
Retoreflective Strip



District 2 State Roads



District 2 State Road Curves



What if signs are not warranted?



Signs Install/Removal Totals

District 2 has a net decrease of 1,400 signs

- 5,300 old, faded, or unnecessary signs to be removed
- 3,900 new signs to be installed with increased reflectivity
- 1,400 signs to be permanently removed and not replaced
- 2,900 retro reflective strips to be added



Signs Install/Removal Totals by Town

Town	Installs	Removals	Net Signs
Columbia	20	47	-27
East Haddam	170	300	-130
East Lyme	105	89	16
Killingworth	66	96	-30
Marlborough	13	27	-14
Old Lyme	71	103	-32

Routes in Project by Town

Columbia	East Haddam	East Haddam (cont)	East Lyme	Killingworth	Marlborough	Old Lyme
87* Jonathan Trumbull Hwy	151 Town St	609 Leesville Rd	1 Boston Post Rd	80 N Brandford Rd	2*	1 Boston Post Rd
66 Willimantic Rd/ Middletown Rd	431 River Rd	82 Norwich Rd/ Town St	I-95*	81 Higganum Rd/ Clinton Rd	66 Hebron Rd	156* Neck Rd/ Shore Rd
	149* Moodus Rd/ Green Village St/ Falls Rd/ Westchester Rd		156 W Main St	148* Durham Rd/ Pea Hill Rd/ Chester Rd		
	434 Mt Parnassus Rd/ Millington Rd/ Haywardville Rd/ Hopyard Rd		161 Chesterfield Rd/ Flanders Rd/ Pennsylvania Rd			

* Routes with most installs and removals

Schedule & Cost

Final Design Plans	June 2022
Advertise for Construction	July 2022
Begin Construction	Spring 2023
End Construction	Fall 2024

$4 Million for 51 towns in District 2

100% Federal Funds

Question & Answer Session

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Feedback Survey:
https://survey123.arcgis.com/share/8f49e1ad5d3946d083f71825ee49f67f