

# State Project 0111-0125: Replacement of Bridge No. 05664, Pomfret Virtual Public Information Meeting

## Live Event: Tuesday, October 17, 7:00 p.m.

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:

[DOT-FLBP@ct.gov](mailto:DOT-FLBP@ct.gov)

**Phone:** (860) 594-2020 (voicemail only)

### Visit the Project Webpage:

<https://portal.ct.gov/DOTPomfret111-125>



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 subtítulos y acceso a traducciones en otros idiomas.



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2. Click the Speaking Language.
3. Select the language you would like from the list shown.

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# Project 0111-0125: Replacement of Bridge No. 05664



Marc Byrnes, P.E.  
Project Manager – CT DOT  
Tel. No. (860) 594-3489  
Marc.Byrnes@ct.gov



# Title VI – Your Civil Rights

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.

- Voluntary Post-Meeting Survey:

- <https://portal.ct.gov/ctdotsurvey>



- Civil Rights information:

- <https://portal.ct.gov/DOT/Business/Office-of-Equity/Title-VI-Page>

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# Connecticut Department of Transportation

## Title VI Notice to the Public

- ◇ The Connecticut Department of Transportation (CTDOT) operates its programs and services without regard to race, color, and national origin in accordance with Title VI of the Civil Rights Act. Any person who believes she or he has been aggrieved by any unlawful discriminatory practice under Title VI may file a complaint with the CTDOT.
- ◇ For more information on the CTDOT's civil rights program, and the procedures to file a complaint, contact the CTDOT Title VI Coordinator at (860) 594-2169, TRS 711; Debra.Goss@ct.gov; or visit our administrative office at 2800 Berlin Turnpike, Newington, CT 06131. For more information, visit [www.ct.gov/dot](http://www.ct.gov/dot)
- ◇ A complainant may file a complaint directly with the Federal Transit Administration by filing a complaint with the FTA Office of Civil Rights, Attention: Title VI Program Coordinator, East Building, 5th Floor-TCR, 1200 New Jersey Ave., SE, Washington, DC 20590
- ◇ A complainant may file a complaint directly with the Federal Highway Administration by filing a complaint with the FHWA Office of Civil Rights, Attention: Title VI Program Coordinator, 8th Floor E81-105, 1200 New Jersey Ave., SE, Washington, DC 20590

如需更多信息或免费语言协助，请致电 (860) 594-2109

Para información adicional, o asistencia lingüística gratuita, por favor llame al (860) 594-2109

Per informazioni aggiuntive o assistenza linguistica gratuita, chiamare il numero (860) 594-2109

Para obter mais informações, ou para auxílio gratuito em outro idioma, ligue para (860) 594-2109

Aby uzyskać dodatkowe informacje lub bezpłatną pomoc tłumacza, proszę dzwonić pod numer (860) 594-2109

Для получения подробной информации или бесплатных услуг перевода звоните по телефону (860) 594-2109

Pou jwenn plis enfòmasyon, oswa asistans ak lang gratis, ranpri rele (860) 594-2109

(860) 594-2109 لمزيد من المعلومات أو للحصول على مساعدة لغوية مجانية، يرجى الاتصال بالرقم

Si vous souhaitez en savoir plus ou bénéficier d'une assistance linguistique gratuite, merci de composer le numéro suivant (860) 594-2109

अधिक जानकारी या निःशुल्क भाषा संबंधी सहायता के लिए कृपया (860) 594-2109 पर कॉल करें।

추가 정보가 필요하거나 무료 언어 지원이 필요하시면 (860) 594-2109로 전화하십시오

Để có thêm thông tin hoặc hỗ trợ ngôn ngữ miễn phí, vui lòng gọi (860) 594-2109





Departamento de Transporte de Connecticut

## Título VI Aviso al Público

- ◇ El Departamento de Transporte de Connecticut (CTDOT) se compromete a asegurar que ninguna persona sea excluida de participar en, o le sean negados los beneficios de, sus servicios de transporte basándose en la raza, color o país de origen de la persona protegida por el Título VI de la Ley de los Derechos Civiles. Si a usted le parece que ha sido objeto de discriminación en lo que corresponde al Título VI, puede presentar una queja al CTDOT.
- ◇ Para más información sobre el programa de derechos civiles del CTDOT y el proceso de presentar una queja, comuníquese con el Coordinadora del Título VI del CTDOT al teléfono (860) 594-2169, TRS 711; Debra.Goss@ct.gov. También puede visitar nuestra oficina administrativa en 2800 Berlin Turnpike, Newington, CT 06131. Para más información, visite [www.ct.gov/dot](http://www.ct.gov/dot).
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- ◇ Para recibir más información o ayuda gratuita en otros idiomas, llame al (860) 594-2109.



# Goals for Tonight's Meeting

Interacting with the Project Team

Explain Federal Local Bridge “Design Managed by State” (DMS) Program

Welcoming Remarks by Town of Pomfret

Introduce the Project Team

Formal Presentation of the Design Progress

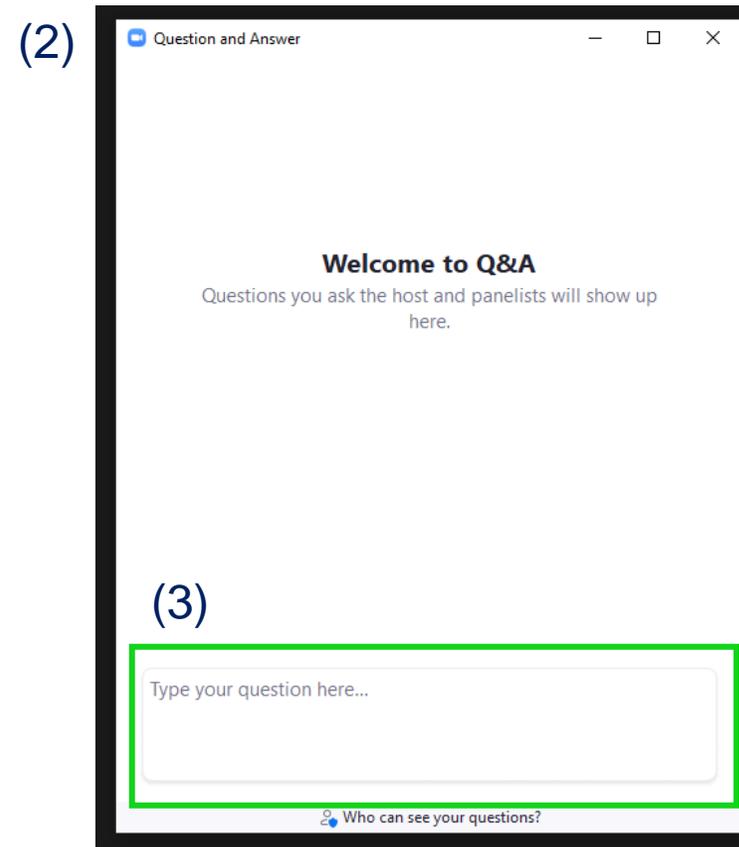
- ❖ Explain the condition of existing bridge & define Purpose and Need
- ❖ Recommend a viable proposal (Design Plans are only 30% complete)

Open the Forum to your Q&A's



# How to use Zoom Q&A

- (1) Select the Q&A tool at the bottom of the Zoom webinar window.
- (2) The Q&A window will open as seen on the right.
- (3) Please type question in the textbox and click enter.
- If you are an audio only participant, dial \*9 to raise and lower your hand.



# Question & Answer Session – Send a Question or Comment via:



by email: [DOT-FLBP@ct.gov](mailto:DOT-FLBP@ct.gov)



by phone: (860) 594-2020 (voicemail)



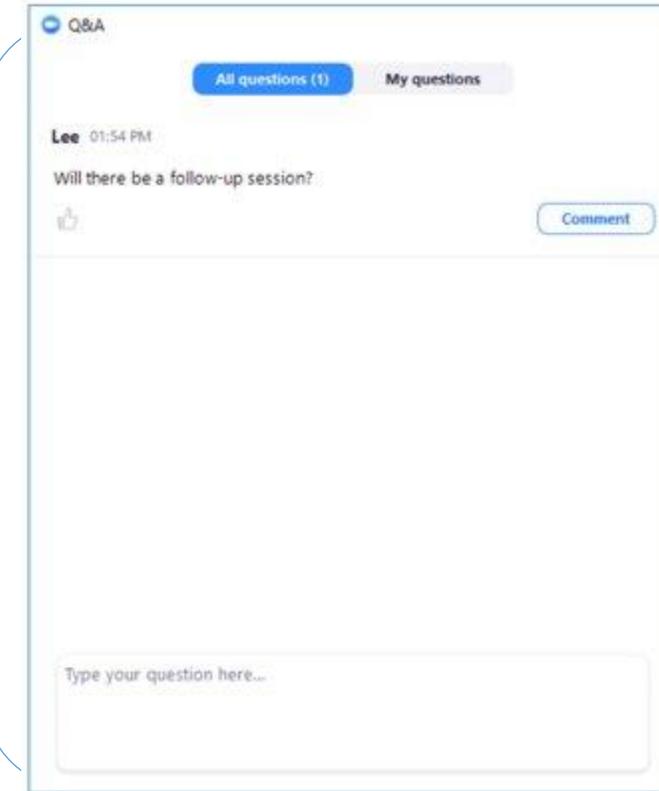
by chat: [Zoom Q&A](#)



project webpage:

<https://portal.ct.gov/DOTPomfret111-125>

Moderator will Post  
Questions to the  
Zoom Q&A



Note: The comment period is open through **October 31, 2023\***

\*Zoom Q&A Function is Only Available During Live Q&A Session.

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# Funding for Project

## Federal Local Bridge Program – “Design Managed by State” (DMS)

Traditional Fed. Local Program: 80% Federal and 20% Town for Design, ROW, and CN

DMS: Design, ROW, and CN Phases are funded with 80% Federal and 20% State Funds

- Design, ROW, and CN Phases are at zero cost to the Town
- Design is “Full Partnership” and Coordination with the Town

### Goals of DMS:

- Provide a “Streamlined approach to Design” using full DOT resources
- Aid the Towns to Keep their bridges in “State of Good Repair” by effective use of funds
- Decrease typical design time
- Utilize Accelerated Bridge Construction (ABC) techniques to shorten construction duration
- Increase the number of municipal projects delivered to construction each year



# Welcoming Remarks from Town of Pomfret



Maureen Nicholson,  
First Selectman



# Project Team



Bart  
Sweeney, P.E.  
Division Chief  
of Bridges  
CTDOT



Derick  
Lessard,  
P.E.  
Principal  
Engineer  
CTDOT



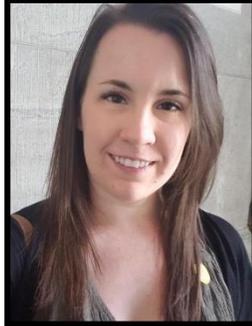
Marc Byrnes,  
P.E.  
Project  
Manager  
CTDOT



Andrew  
Shields E.I.T.  
Project  
Engineer  
CTDOT



Zachary  
Guarino  
  
ROW  
Project  
Coordinator  
  
CTDOT



Kathleen  
Ericson  
  
ROW Assistant  
Project  
Coordinator  
  
CTDOT



Anand  
Seshadri P.E.  
  
Project  
Manager  
  
CLE

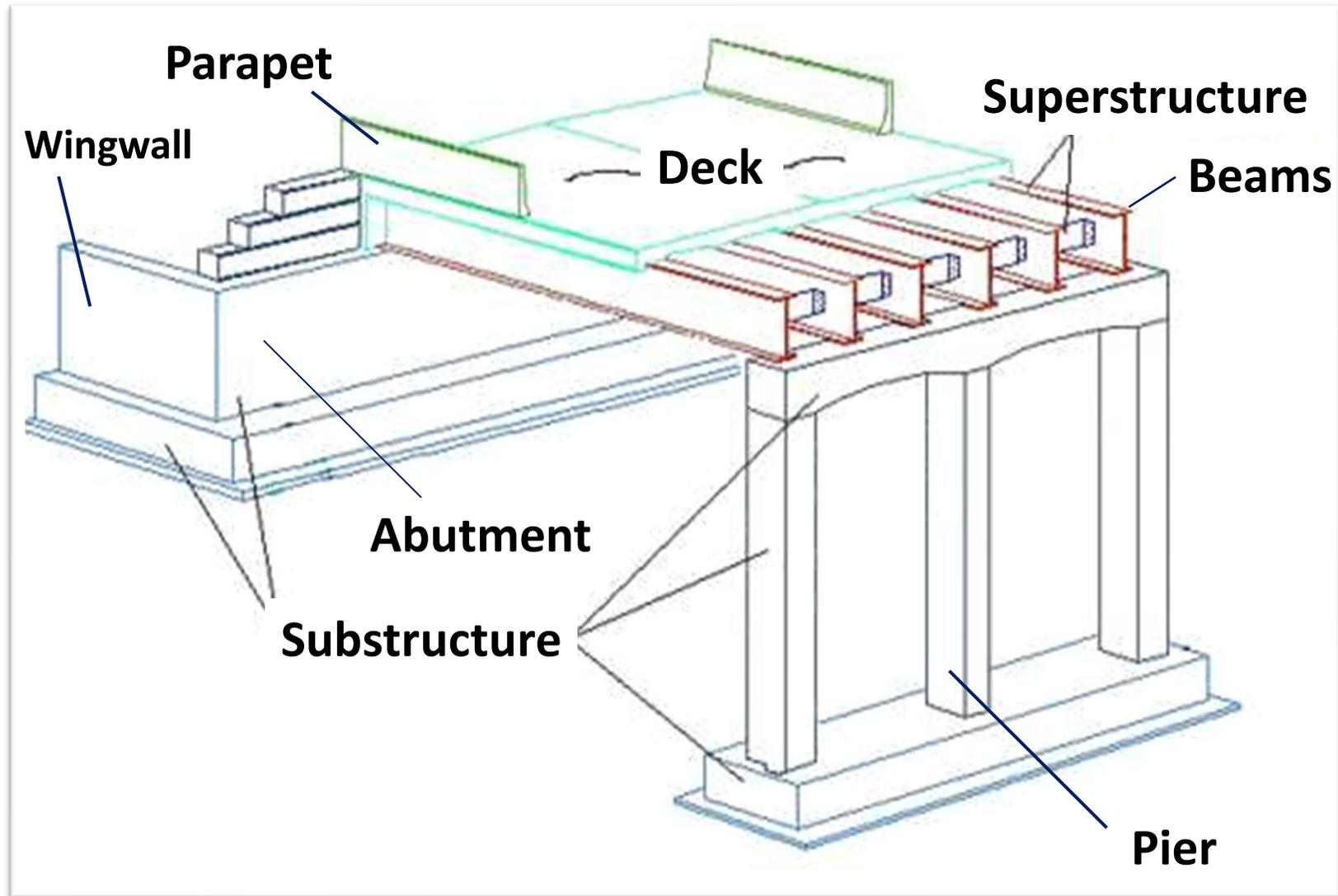


Rachelle  
Clark, P.E.  
  
Project  
Engineer  
  
CLE

CLE Firm: CHA Consulting, Inc.



# Bridge Structural Elements Diagram



## Bridge Condition Ratings

Scale: 1 to 9

- 9 – Excellent
- 8 – Very Good
- 7 – Good
- 6 – Satisfactory
- 5 – Fair
- 4 – Poor
- 3 – Serious
- 2 – Critical
- 1 – Imminent Failure



# Examples of Concrete Deterioration



Efflorescence



Honeycombing



Scaling



Map Cracking



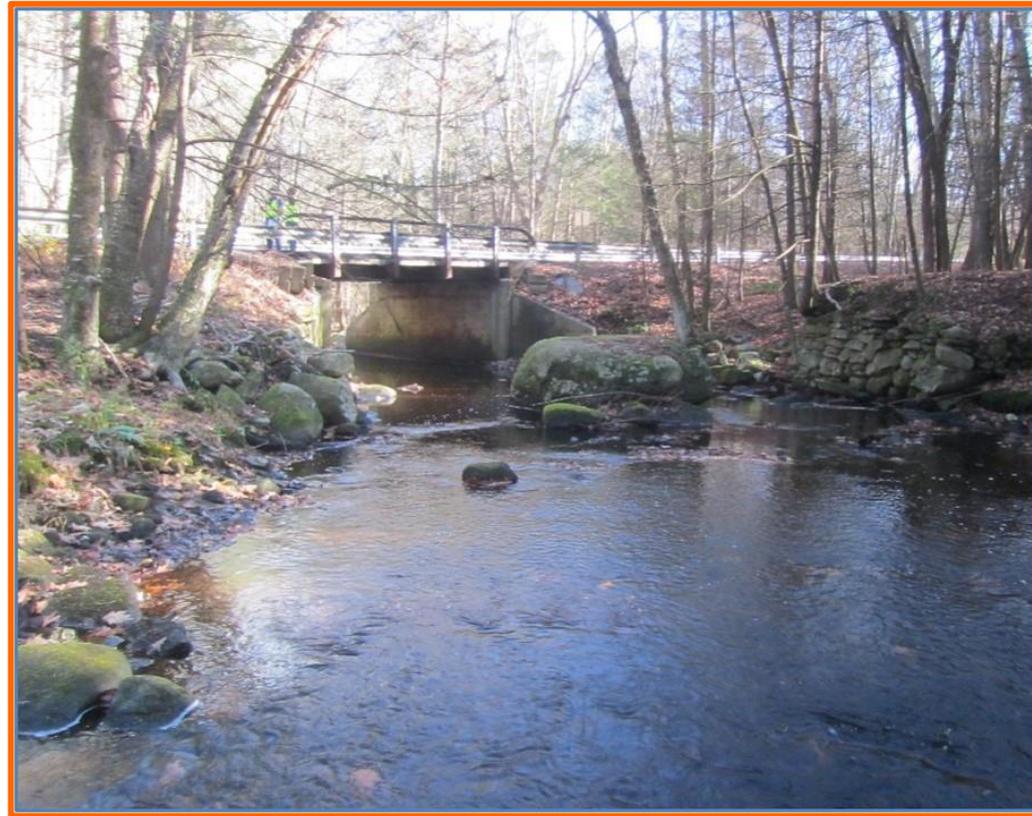
Spalling

Replacement of Bridge No. 05664 // State Project No. 0111-0125



# PROJECT NO. 0111-0125: REPLACEMENT OF BRIDGE NO. 05664

Taft Pond Road over Mashamoquet Brook  
Town of Pomfret, CT



# PROJECT LOCATION MAP



Replacement of Bridge No. 05664 // State Project No. 0111-0125



# EXISTING BRIDGE DATA

## Roadway:

- (2) Travel Lanes
- Width: 22'-0"
- ADT: 168 (Traffic Count November 2022)
- Speed Limit = 35 mph (Design Speed)
- 85th Percentile Speed = 46 MPH
- Classification: Rural Minor Collector



# EXISTING BRIDGE DATA

- Constructed: 1900 (Age – 123 Years)
- Rehabilitated: 1996, 2021
- Span Length: Single Span 22-feet
- Bridge Components:
  - Superstructure: Steel Beams & Corrugated Metal Deck
  - Substructure: Concrete abutments
  - Foundation: Concrete spread footings on soil
- Load Restrictions:
  - Posted for Weight Restrictions
- Hydraulics: Inadequate (100-Yr Storm)
  - 20.2' Clear Span < 36.0' = 1.2 Bankfull Width
  - 1.8' backwater > 1.0' Max
  - 0' underclearance < 2.0' Min
  - 0.5' Freeboard < 1.0' Min
  - Bridge is Scour Critical – Unstable for Design Scour

Steel Beam

Approx. 100  
year storm

Abutment

Footing  
(Below Water)

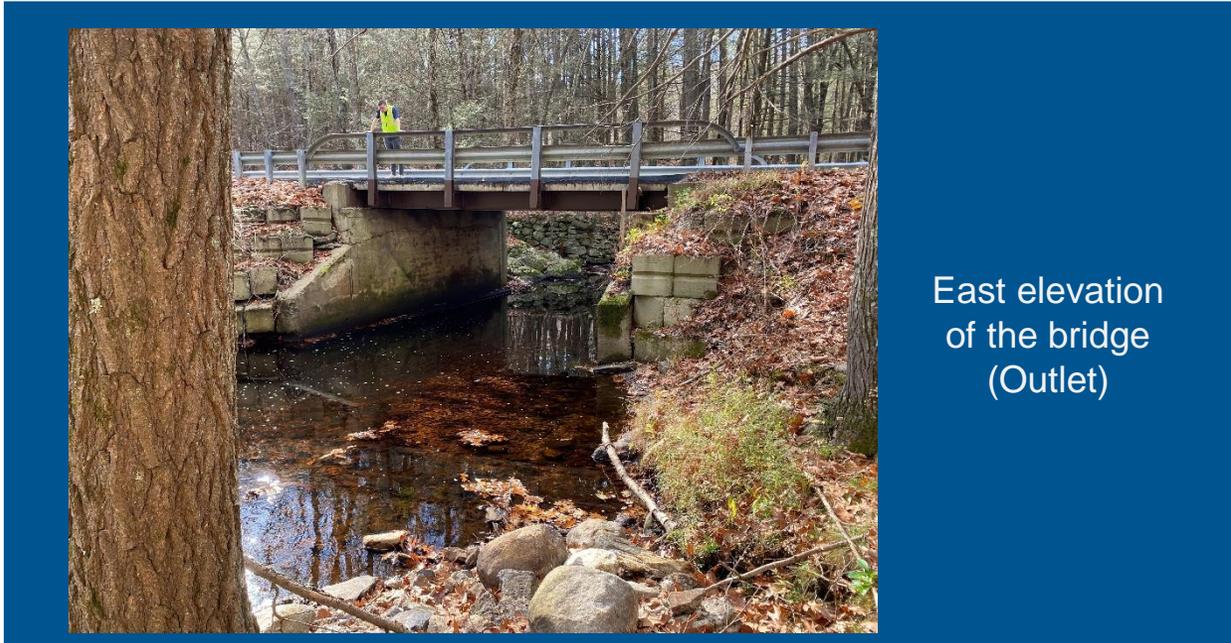


West elevation of  
bridge (Inlet)

No Underclearance  
for a 100-YR Storm

# EXISTING CONDITIONS – BRIDGE INSPECTION

## Bridge Inspection Report January 25, 2022



East elevation  
of the bridge  
(Outlet)

TABLE 1 BRIDGE INSPECTION REPORT RATING SUMMARY		
ITEM	CONDITION	RATING
<b>Deck</b>	<b>Good</b>	<b>7</b>
Overlay (Bit. Concrete)	Very Good	8
Deck - Structure	Good	7
Railing*	Good	7
<b>Superstructure</b>	<b>Satisfactory</b>	<b>6</b>
Bearings	Very Good	8
Girders	Satisfactory	6
Paint	Very Good	8
Rust	Satisfactory	6
Welds - Cracks	Very Good	8
<b>Substructure</b>	<b>Serious</b>	<b>3</b>
<b>Abutment 1 (South):</b>	<b>Serious</b>	<b>3</b>
Stem	Fair	5
Footing	Serious	3
Erosion	Satisfactory	6
Settlement	Satisfactory	6
Scour	Serious	3
Wingwalls	Fair	5
<b>Abutment 2 (North):</b>	<b>Fair</b>	<b>5</b>
Stem	Fair	5
Footing	Satisfactory	6
Erosion	Satisfactory	6
Settlement	Good	7
Scour	Satisfactory	6
Wingwalls	Fair	5

\*Bridge Rail does not meet  
current safety standards



# EXISTING FIELD CONDITIONS – PHOTOS



West Elevation  
of Bridge (Inlet)



East Elevation of  
Bridge (Outlet)



Looking North  
over Bridge



Looking South  
over Bridge



# EXISTING FIELD CONDITIONS – PHOTOS



Eastern Bridge Rail – Does not Meet Safety Standards



South Approach – Utility Termination Prior to Bridge



Typical Underside of Superstructure Prior to Repairs Completed 2021



Beam End Repair Completed 2021



# EXISTING FIELD CONDITIONS – PHOTOS



Repaired Connection of Bridge Rail Post to the Fascia Girder Completed 2021



North Abutment with Exposed Scour Wall (Site Visit Spring 2021)



Undermining at South Abutment Scour Wall (Inspection Report, January 25, 2022).



Southeast Wingwall. Note concrete blocks at embankment slope (typical at all wingwalls).

# EXISTING FIELD CONDITIONS – PHOTOS



Upstream  
Channel  
looking West



Downstream  
Channel  
looking East

# PROJECT PURPOSE & NEED

- Eliminate Weight Restrictions on Bridge
- Eliminate Scour Critical Deficiency
- Replace Bridge & Approach Rail Systems to Meet Current Safety Standards
- Improve Hydraulic Adequacy and Performance
- Bridge Beyond 75-Year Service Life, 123 Years since 1900 Construction

## PROPOSED REHABILITATION

Full Bridge Replacement

Note: Despite deficiencies, the bridge is safe for the traveling public and is inspected by CTDOT



# PROPOSED IMPROVEMENTS

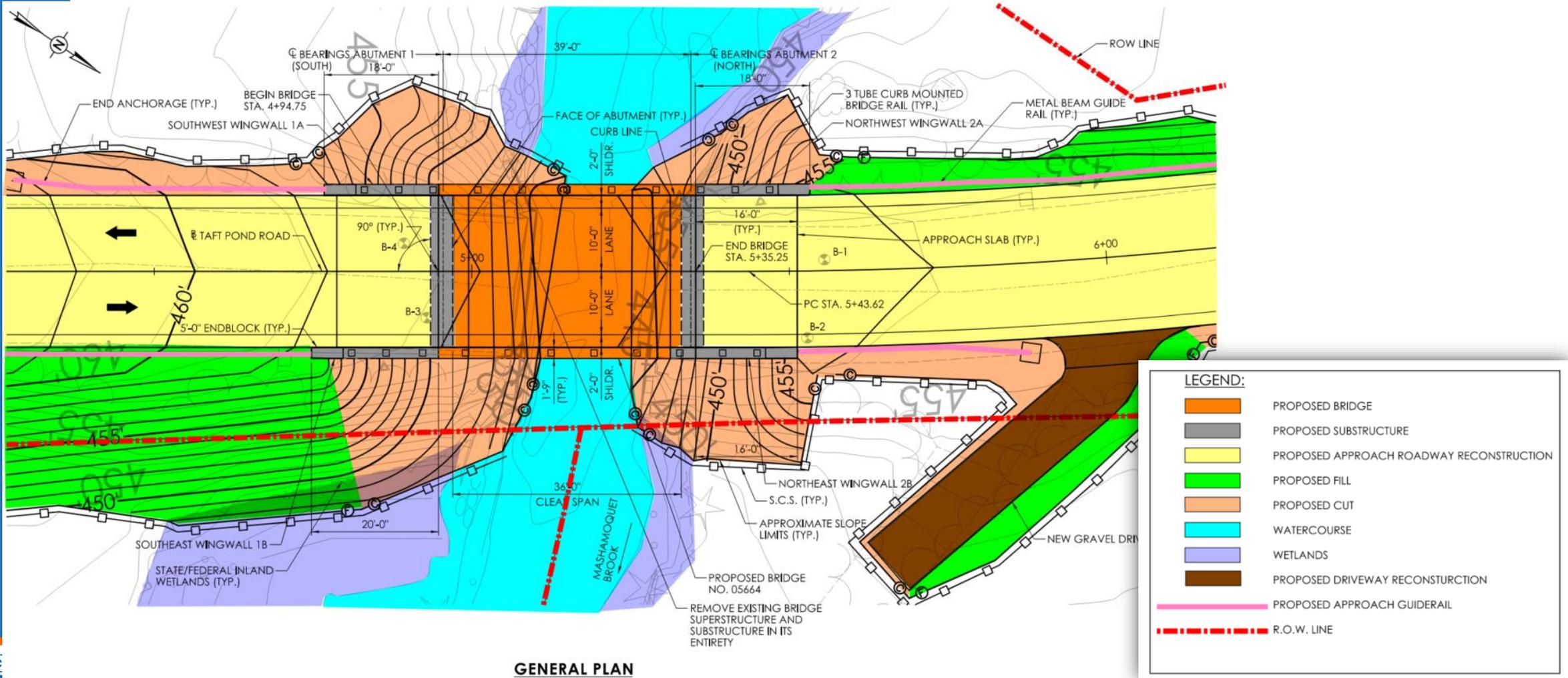
- New Prestressed Concrete Adjacent Deck Unit Bridge
  - 75-Year Service Life & Minimal Maintenance
  - Carry AASHTO Design, Legal & Permit Vehicles; No Weight Restrictions
  - Footing on Bedrock (South) & Pile Foundation (North) Designed for Scour
  - Open Bridge Rail & Approach Rail System Meeting Current Standards
  - Improved 24' Wide Roadway
- Improve Hydraulic Performance
  - 39'-0" Widened Span; 36'-0" Clear Span = 1.2 Bankfull Width
  - Passes 100-Year Storm
    - ❖ At Bridge (1.7' Underclearance; Better Than Existing 0')
    - ❖ Approach Roadway (2.2' Freeboard; Better Than Existing 0.5')
  - Reduced Backwater Elevation (From 1.8' to 0.1') Compared to Natural Conditions
- Improve Aesthetics
  - Form Liner Applied To Concrete Simulating Stones (End Blocks and Wingwalls)
  - Metalized Bridge Rail to Town's Color Choice



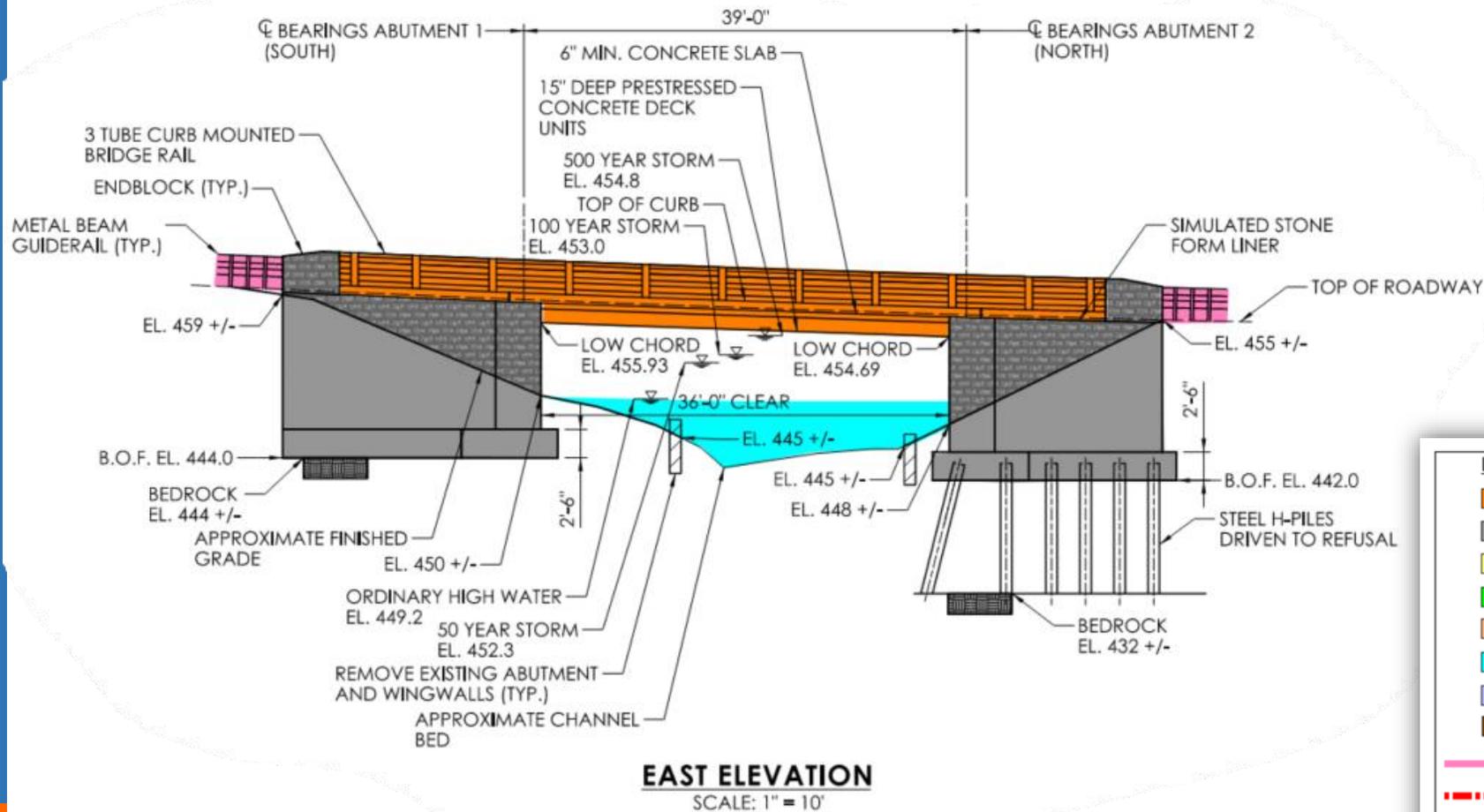
Replacement of Bridge No. 05664 // State Project No. 0111-0125



# PROPOSED PRESTRESSED CONCRETE ADJACENT DECK UNIT BRIDGE – PLAN



# PROPOSED PRESTRESSED CONCRETE ADJACENT DECK UNIT BRIDGE – ELEVATION

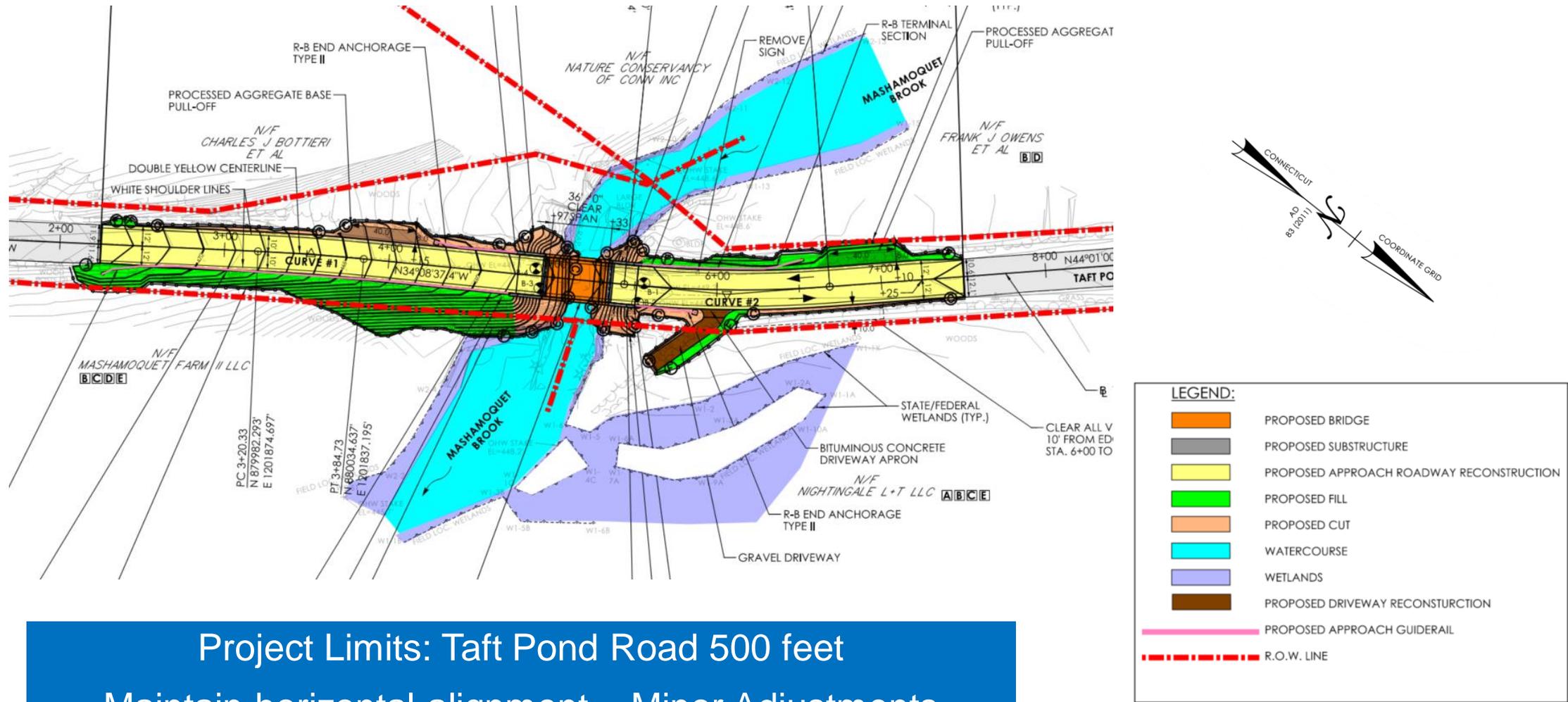


LEGEND:	
	PROPOSED BRIDGE
	PROPOSED SUBSTRUCTURE
	PROPOSED APPROACH ROADWAY RECONSTRUCTION
	PROPOSED FILL
	PROPOSED CUT
	WATERCOURSE
	WETLANDS
	PROPOSED DRIVEWAY RECONSTRUCTION
	PROPOSED APPROACH GUIDERAIL
	R.O.W. LINE





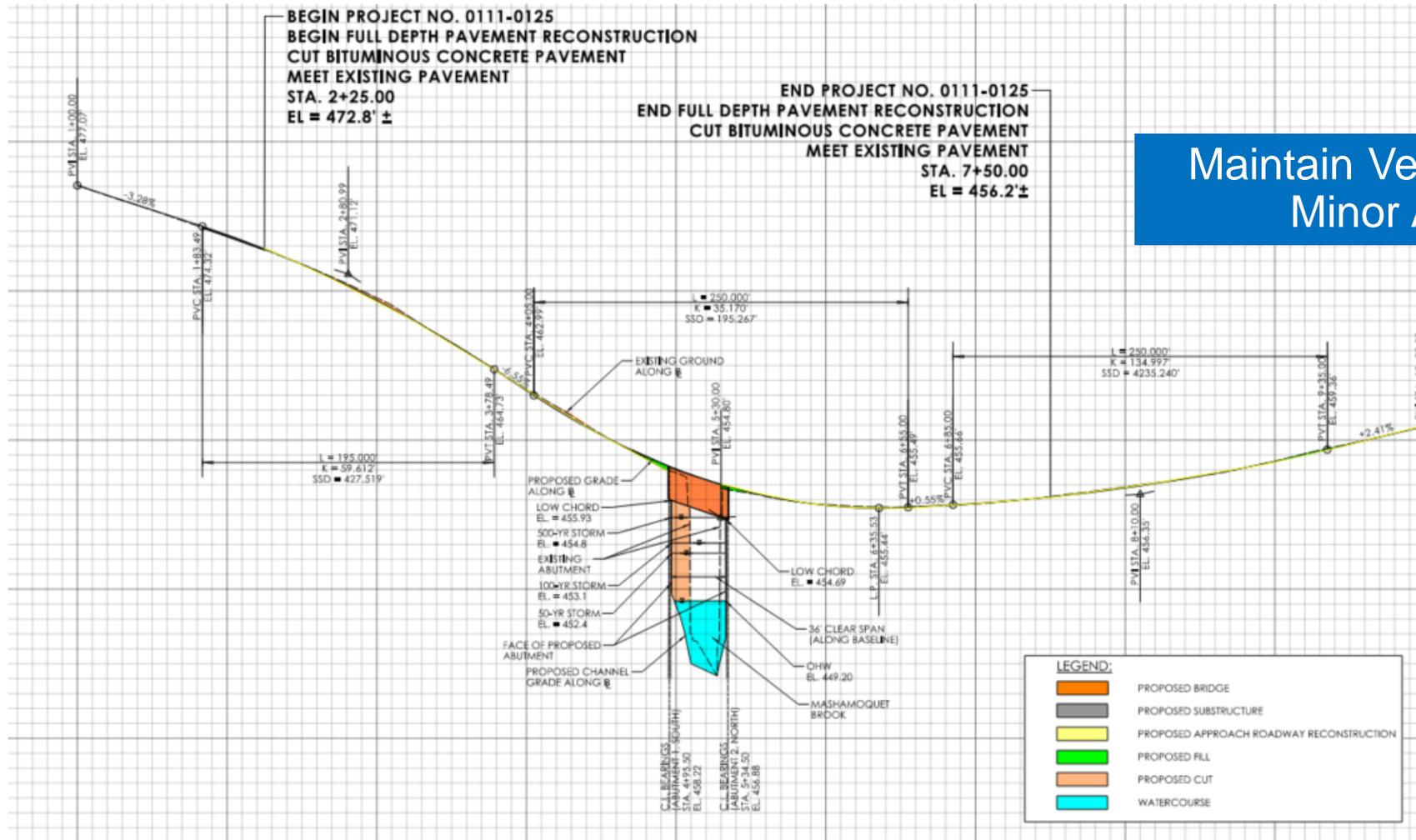
# PROPOSED ROADWAY PLAN



Project Limits: Taft Pond Road 500 feet  
 Maintain horizontal alignment – Minor Adjustments



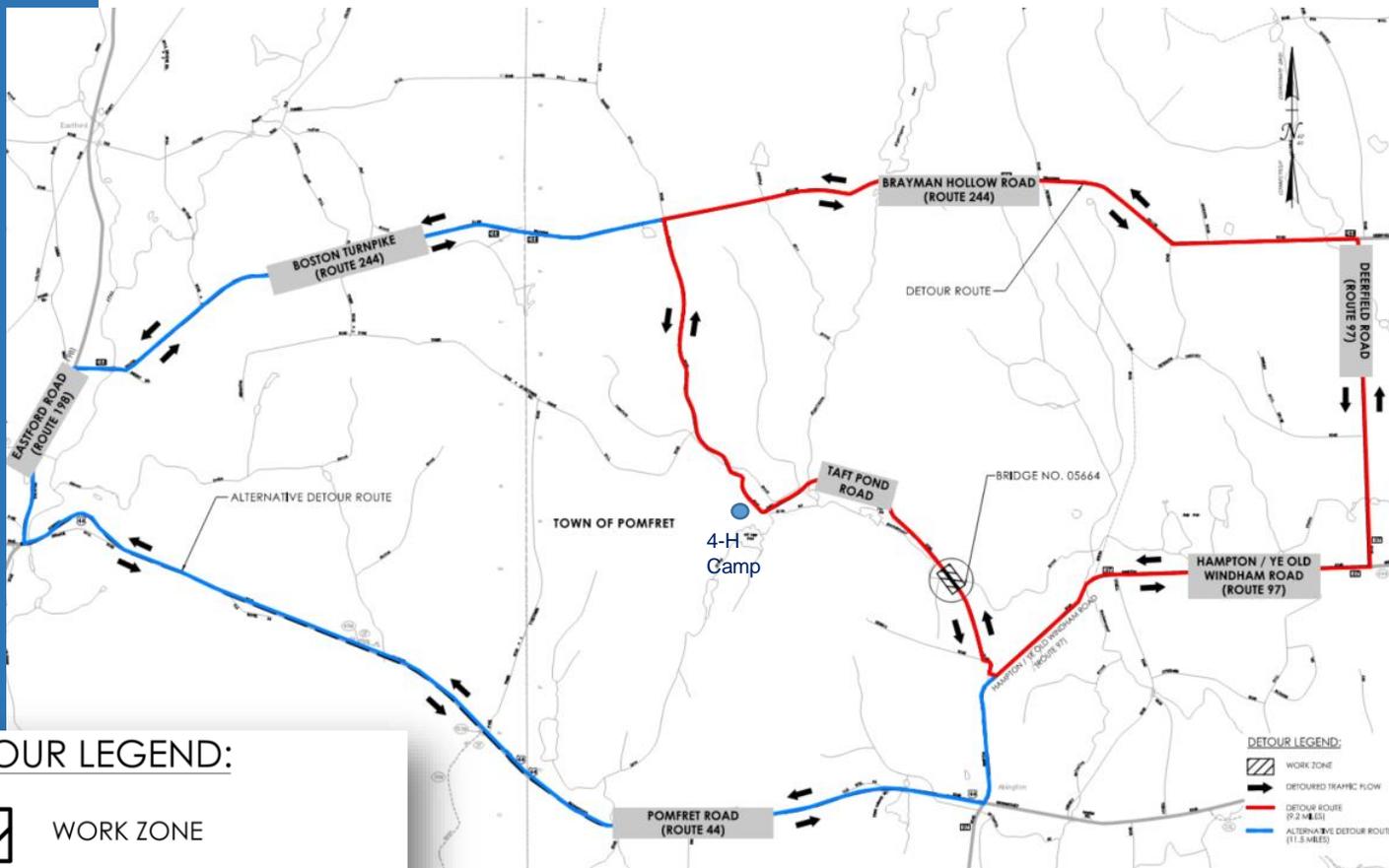
# PROPOSED ROADWAY PROFILE



Maintain Vertical Alignment –  
 Minor Adjustments



# PROPOSED ROADWAY DETOUR



## DETOUR LEGEND:

-  WORK ZONE
-  DETOURED TRAFFIC FLOW
-  DETOUR ROUTE (9.2 MILES)
-  ALTERNATIVE DETOUR ROUTE (11.5 MILES)

## DETOUR LEGEND:

-  WORK ZONE
-  DETOURED TRAFFIC FLOW
-  DETOUR ROUTE (9.2 MILES)
-  ALTERNATIVE DETOUR ROUTE (11.5 MILES)

## Bridge closure with detour:

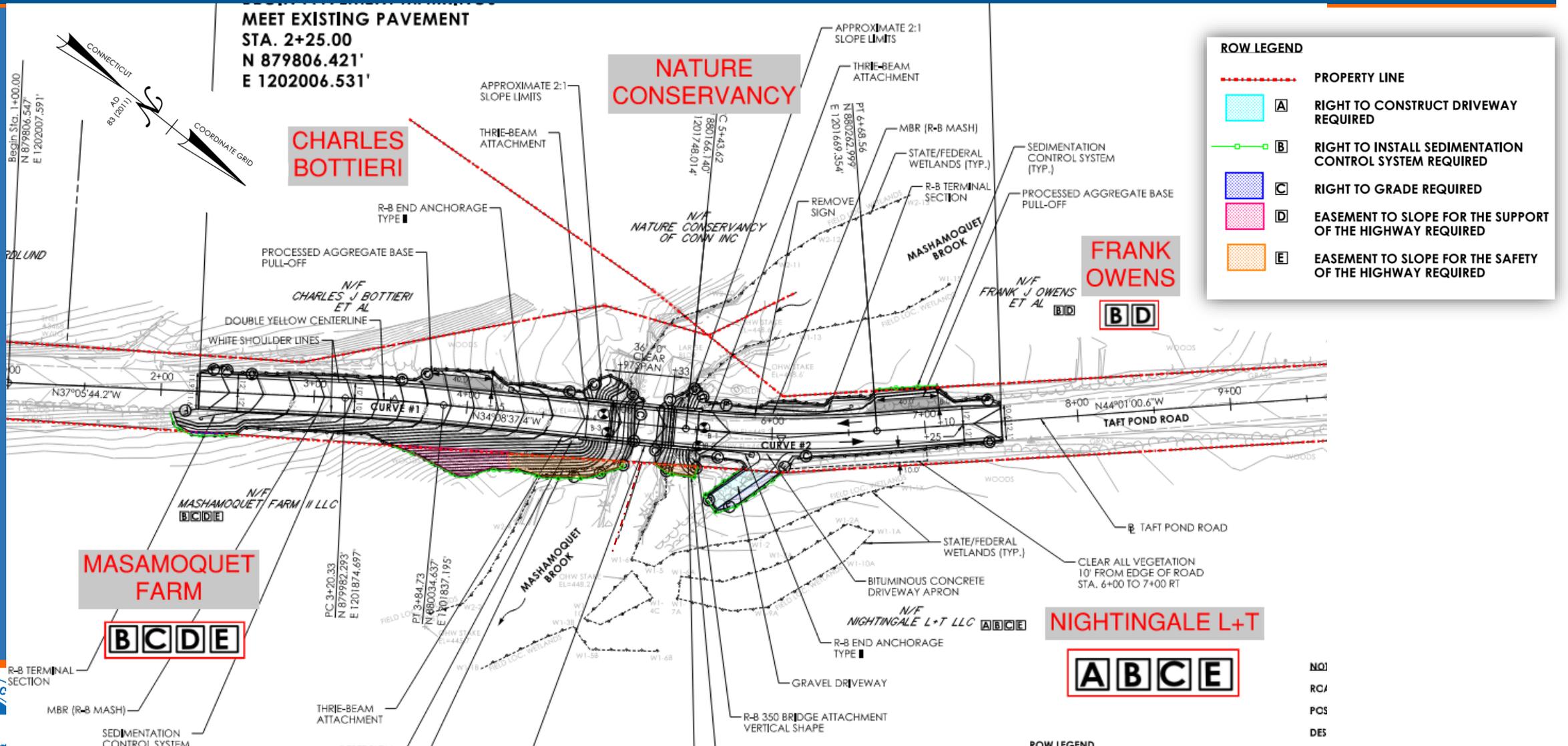
- 9 Miles – 15 Minutes
- 11 Miles – 17 Minutes
- Safe work zone for residents, commuters & contractor
- 1 season construction anticipated

# ENVIRONMENTAL IMPACTS

- Utility Impacts:
  - None
- Environmental Impacts:
  - Tree clearing along roadway
  - Temporary & Permanent Wetland and Watercourse Impacts
- Anticipated Permits:
  - Town of Pomfret Inland Wetland Permit
  - CTDEEP Flood Management Certification – MOU
  - US Army Corps of Engineers Self Verification (SV)



# RIGHTS OF WAY (ROW) IMPACT PLAN



# Division of Rights of Way

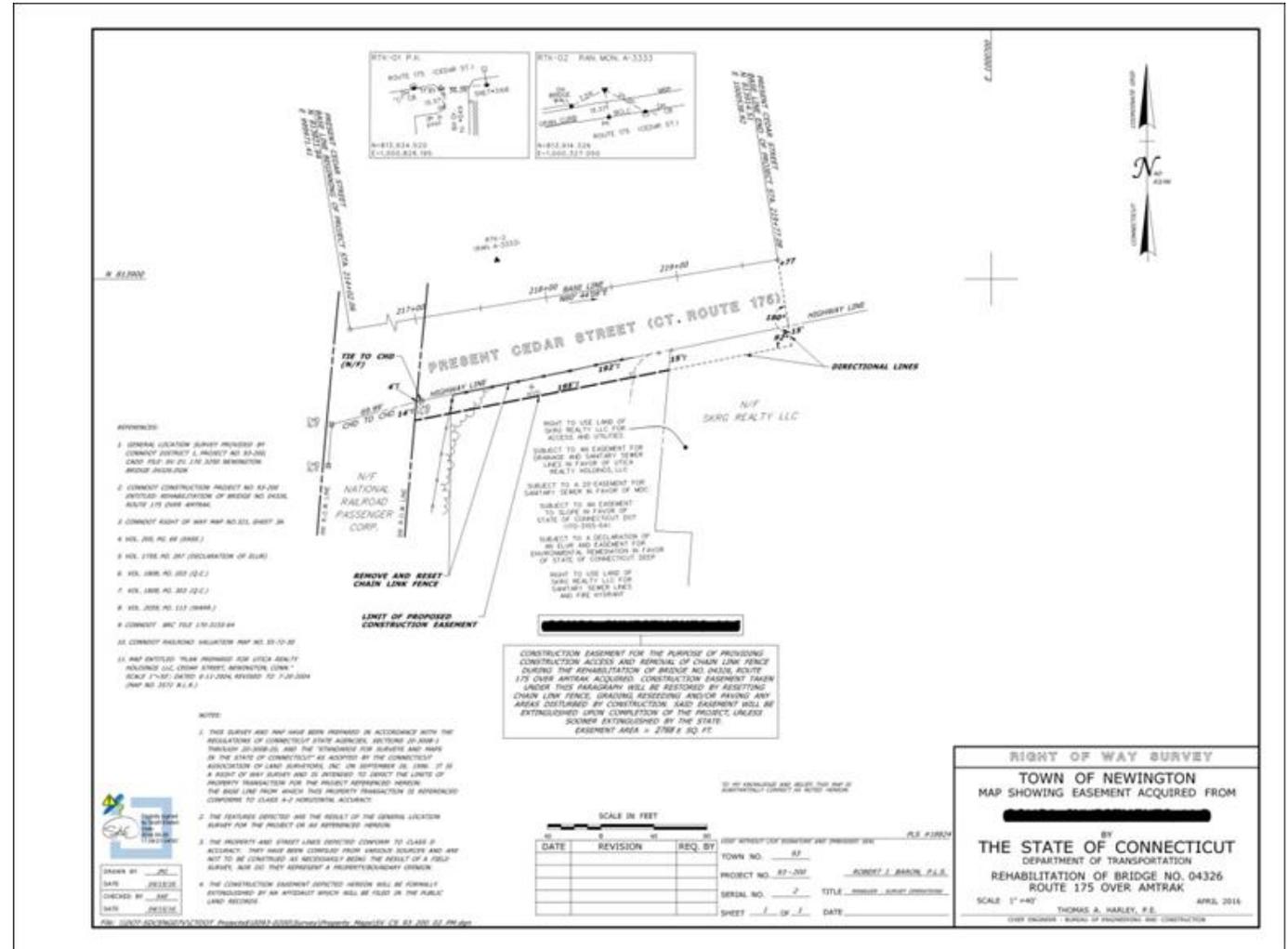
- Function
  - Acquire all property/property rights necessary for the project.
- Statutory References
  - State of Connecticut: C.G.S. Section 13a-73 & 13a-98e
  - Federal: Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as Amended.
- Impacts to Private Property\*
  - Partial Acquisitions
  - Easements
  - Rights

\*Impacts Subject to Change as Design Progresses



# Division of Rights of Way

- ROW Process
  - Letter of Intent to Acquire
  - Valuation
  - Offer of Compensation
  - Negotiation
  - Acquisition
    - Agreement
    - Condemnation



# PROJECT SCHEDULE & COST

- Schedule
  - Construction Start: Spring 2026 (subject to permit approvals)
  - Construction Duration: 8 Months
- Construction Cost: \$2,450,000
- 80% Federal Funds, 20% State Funds (No cost to Town)

Note: The cost and schedule are preliminary and are subject to change



# Live Question & Answer Session (Q&A)



by email: [DOT-FLBP@ct.gov](mailto:DOT-FLBP@ct.gov)



by phone: (860) 594-2020 (voicemail)



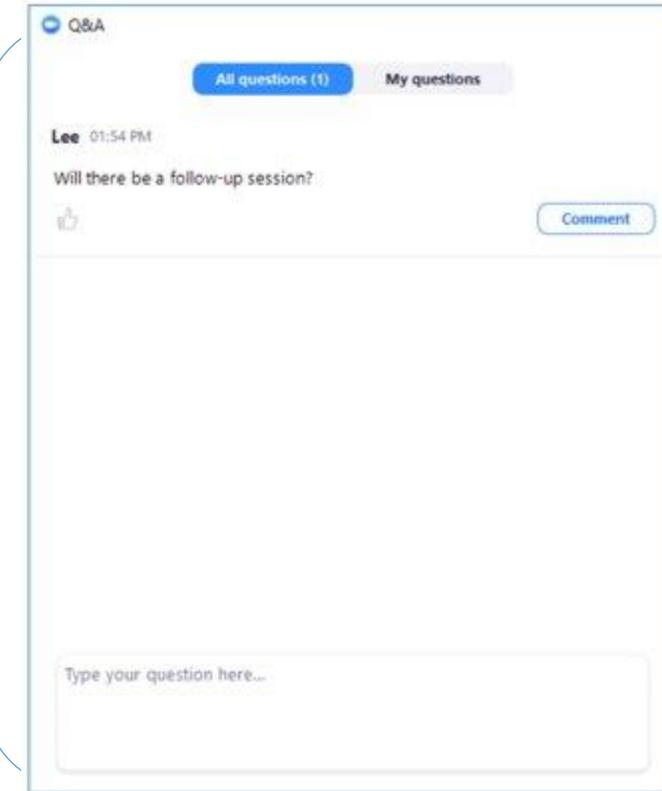
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Questions to the  
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