EVERSOURCE

Project Approval Form

Project Title: CDOT 0135-0349 Stamford	**Project Number:** CD02404
Date Prepared: 09/17/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** Line Relocations/Act of Public Authority
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** Yes
Project Manager: [redacted]	**Emergency Related Request?** No
Project Sponsor: [redacted]	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Required in service date: 12/31/2025	
Total Capital Request: $897.1K	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of $897.1K which is 249.8% of the partial funding capital estimate of $359.1K. CD02404 was partially approved on 2/16/2024. There is no scope change on the project. The variance between the full funding and partial funding estimate is due to the following:

- Outside services increased from $103.8K in the partial to $285.5K in the full funding estimate, for a total increase of $181.7K. The contractor bid and resulting costs were underestimated due to:
  - Additional poles being shifted and replaced to meet clearance requirements.
  - Night work being required.
  - Unforeseen increase in project complexity, leading to additional break down and set-up times.
- Internal labor increased a total of $41.3K between the full and partial funding requests.
- The cost of Indirects / Allocations increased significantly as well (increasing $259.2K), scaling with the increases in direct costs for the reasons mentioned above.

The Original Project was presented as follows:

- *The Town of Stamford has contacted Eversource concerning CDOT Project 0135-0349. Their project aims to reduce vehicle emissions in areas of the state that do not attain national air quality standards by upgrading city's traffic signals.*
- *The CDOT project affects Eversource's overhead facilities at two intersections: Cove Rd, Elm St & Shippan Ave and Palmers Hill Rd & Stillwater Rd in Stamford. The CDOT scope for this project is to provide vertical clearance of the overhead wires and resolve an ADA (Americans with Disabilities Act) /PROWAG (Public Right-of Way Accessibility Guidelines) horizontal clearance infraction in the sidewalk at the intersection of Cove Rd, Elm St & Shippan Ave.*

- *Since this project is funded through Federal Highway Administration's CMAQ (congestion mitigation/air quality) Improvement Program, the CDOT has determined the overall project scope to be municipal based, resulting in 0% reimbursement.*

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2025	Total
Direct Capital Costs		
Internal Labor and Construction Equipment	64.3	64.3
Outside Services	285.5	285.5
Materials	33.2	33.2
Removals	36.7	36.7
Risk and Contingency	62.6	62.6
Other	0.0	0.0
Subtotal – Direct Costs	**482.3**	**482.3**
Indirect Capital Costs		
Indirect/Overheads (including benefits)	414.8	414.8
Capitalized interest or AFUDC, if any	0.0	0.0
Subtotal – Indirect Costs	**414.8**	**414.8**
Total Gross Capital Costs	**897.1**	**897.1**
Customer Contribution	**0.0**	**0.0**
Total Net Capital Project Costs	**897.1**	**897.1**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

In accordance with Connecticut General Statutes §13a-98f, the Town of Stamford has requested Eversource to adjust OH facilities to accommodate CDOT project 0135-0349.

b. Project Need

This CDOT project requires Eversource to adjust OH facilities to support traffic signal upgrades and resolve an ADA /PROWAG horizontal clearance infraction in the sidewalk on Cove Rd, Elm St & Shippan Ave.

c. Project Scope

The following work needs to be performed to achieve the project objective.

4. Alternatives Considered

No alternatives considered

5. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	February 2024
100% Detailed Engineering Completion	June 2024
Construction Start	January 2025
In Service Date	December 2025

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A

8. Risk and Contingencies

Risk Mitigation:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2024	Medium	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Customer Permission / Siting Council / Municipal approvals	2024	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2024	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Internal engineering resources not available to perform the work.	2024	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2024	Medium	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2024	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2024	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.

9. References

N/A

10. Attachments (One Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A1. Partial Funding PAF Form	*YES*
A. Cost Estimate	*YES*
B. Geographic Map	*YES*

Attachment A1: Partial Funding PAF Form

Project Title: CDOT 0135-0349 Stamford	**Project Number:** CD02404
Date Prepared: 02/07/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** Line Relocations/Act of Public Authority
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** No
Project Manager: [redacted]	**Emergency Related Request?** No
Project Sponsor: [redacted]	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Required in service date: 12/31/2024	
Total Capital Request: $359.1k	**Authorization Type:** Partial Funding

1. Executive Summary

The Town of Stamford has contacted Eversource concerning CDOT Project 0135-0349. Their project aims to reduce vehicle emissions in areas of the state that do not attain national air quality standards by upgrading city's traffic signals.

The CDOT project affects Eversource's overhead facilities at two intersections: Cove Rd, Elm St & Shippan Ave and Palmers Hill Rd & Stillwater Rd in Stamford. The CDOT scope for this project is to provide vertical clearance of the overhead wires and resolve an ADA (Americans with Disabilities Act) /PROWAG (Public Right-of Way Accessibility Guidelines) horizontal clearance infraction in the sidewalk at the intersection of Cove Rd, Elm St & Shippan Ave.

Since this project is funded through Federal Highway Administration's CMAQ (congestion mitigation/air quality) Improvement Program, the CDOT has determined the overall project scope to be municipal based, resulting in 0% reimbursement.

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2024	Year 2025	Year 2026+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	23.0	0.0	0.0	23.0
Outside Services	103.8	0.0	0.0	103.8
Materials	49.0	0.0	0.0	49.0
Removals	27.8	0.0	0.0	27.8
Risk and Contingency	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**203.5**	**0.0**	**0.0**	**203.5**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	148.8	0.0	0.0	148.8
Capitalized interest or AFUDC, if any	6.9	0.0	0.0	6.9
Subtotal – Indirect Costs	**155.6**	**0.0**	**0.0**	**155.6**
Total Gross Capital Costs	**359.1**	**0.0**	**0.0**	**359.1**
Customer Contribution	**0.0**	0.0	**0.0**	**0.0**
Total Net Capital Project Costs	**359.1**	**0.0**	**0.0**	**359.1**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

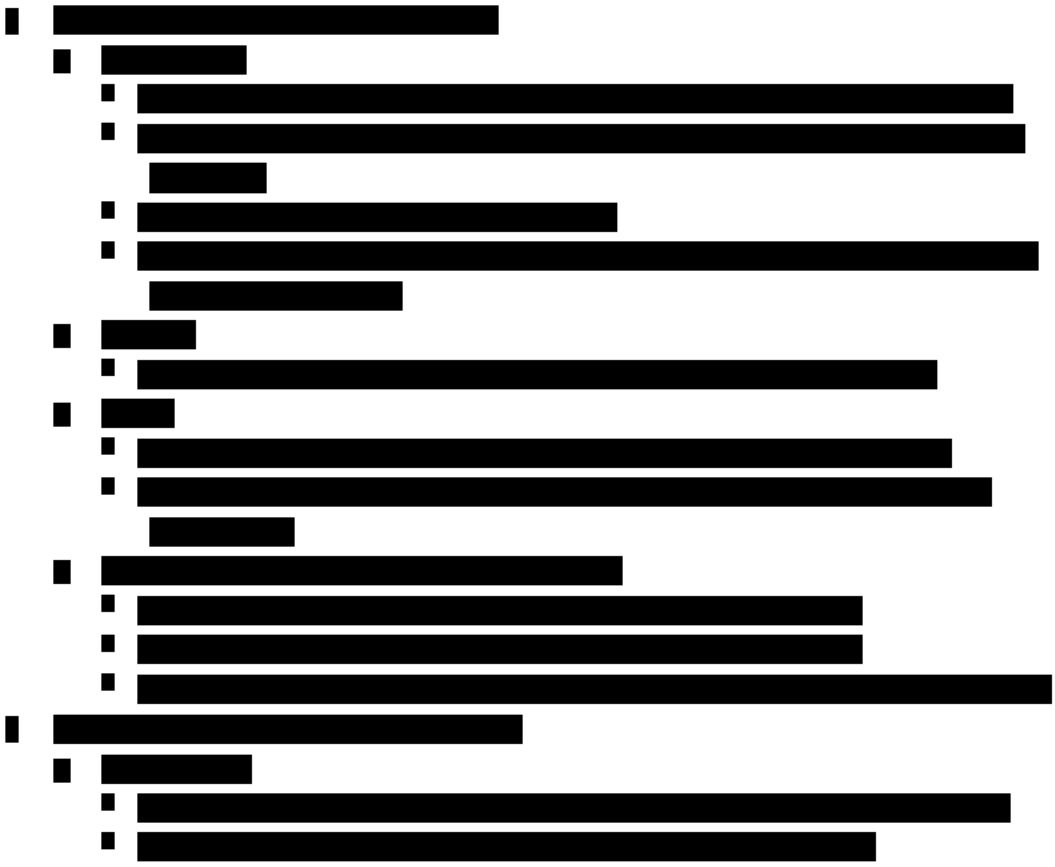
In accordance with Connecticut General Statutes §13a-98f, the Town of Stamford has requested Eversource to adjust OH facilities to accommodate CDOT project 0135-0349.

b. Project Need

This CDOT project requires Eversource to adjust OH facilities to support traffic signal upgrades and resolve an ADA /PROWAG horizontal clearance infraction in the sidewalk on Cove Rd, Elm St & Shippan Ave.

c. Project Scope

The following work needs to be performed to achieve the project objective.



4. Major Materials

OH Transformer	7
556 TW - 3Ø	1,191’

5. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	February 2024
100% Detailed Engineering Completion	June 2024
Fully Funded	July 2024
Construction Start	September 2024
In Service Date	December 2024

6. Regulatory Decisions

NA

7. Codes and Standards

NA

8. Risk and Contingencies

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2024	Medium	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
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9. References

References
1. NA

10. Attachments (One Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Geographic Map	*YES*

Attachment A: Cost Estimate

Budget Summary - Preferred Option

2024

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Scope Net Estimate
2	Palmers Hill Rd, Stamford	Draft	0	20%	$39,116	$39,116
1	Cove Rd - Elm St - Shippan Ave	Draft	0	20%	$332,960	$332,960
				2024 Total:	**$372,076**	**$372,076**
				Total Project:	**$372,076**	**$372,076**

Attachment A: Cost Estimate (Cont.)

Design Alternative CD02404-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	20.00%
SubTotal:	$277,467
Contingency Amount:	$55,493
Estimate:	$332,960
Reimbursement:	$0
Net Amount:	**$332,960**
Description:	

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	23-ALL17	[redacted]		$4,562.48
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18			$4,000.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil	23-OH27			$120,148.08
OH WIRE OH - Remove circuit wire (3 phase)	23-OH37A			$4,954.56
OTHER OTHER 30% contractor cost added.	23-ALL14			$59,418.00
POLE OH - POLE - 3ph (Eversource custodian) 9069, 17462, 8103, 8106 & New	23-OH14			$30,394.00
POLE OH - JUNCTION POLE - 3ph (Eversource custodian) Pole 1072	23-OH14A			$15,197.52
XF OH - OH XF - 1ph Pole 329	23-OH45			$2,742.48
SECTIONALIZE 3PH Tripsaver Pole 7295	23-OH41B			$23,000.00
XF OH - OH XF's - bank of 3-1ph Pole 8103 & 7293	23-OH46			$13,049.92

Attachment A: Cost Estimate (Cont.)

Design Alternative CD02404-02

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	20.00%
SubTotal:	$32,596
Contingency Amount:	$6,519
Estimate:	$39,116
Reimbursement:	$0
Net Amount:	**$39,116**
Description:	

Item Description	CU	$ / Per	Qty	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	23-ALL17	[redacted]		$4,562.48
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	23-ALL18			$2,000.00
POLE OH - POLE - 3ph (Telephone custodian) 17468, 7293, 7295 & new	23-OH12			$18,512.00
OTHER OTHER 30% contractor cost added.	23-ALL14			$7,522.00

Attachment B: Geographic Map – Cove Rd, Elm St & Shippan Ave



Attachment B: Geographic Map (Cont.) – Palmers Hill Rd & Stillwater Rd

