EVERSOURCE

Supplement Authorization Form

Project Title: CDOT L034-001 – [redacted]	**Project Number: CD01633**
Date Prepared: 11/21/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** Line Relocations/Act of Public Authority
Initiating Organization: Distribution	**Project Type:** Specific
Project DDE: [redacted]	**Capital Investment part of 5-year 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)
Current Authorized Amount: $845.4K	**Approved In-Service Date:** 12/31/2021
Supplement Request: $1.77M	**Estimated In-Service Date: 1/31/2025**
Total Capital Request: $2.62M	**Authorization Type: Supplement Request**
	Reason: Scope Change

1. Project Background

Supplemental funding of $1.77M is being requested for this project. CD01633 is currently authorized for $845.4K, which brings this total funding request to $2.62M or 310% of the full funding authorized amount. The cost increase for this project is due to a scope change from [redacted] The scope change includes the [redacted]. This project includes the relocation of the manhole, installation of new duct banks, and subsequent underground cable reconductoring within the new ducts.

The original project was presented as follows:

The State of CT has contacted Eversource concerning CDOT Project L034-001. This project affects Eversource facilities on [redacted] *in Danbury. The CDOT scope for this project is to address congestion and improve traffic operations at key junction area between* [redacted] *by installing dedicated turn lanes and pedestrian safety improvements which will require Eversource to relocate OH facilities on the* [redacted]*. Since this project is state funded, conducted by the town of Danbury on a town road, it is a non-reimbursable job. Attached below is the guideline for reimbursements for Eversource facility relocations as determined by the legal departments. This project is under trigger project #6 in the attached table.*

2. Supplement Justification Overview

CD01633 requires a supplemental due to a scope change in the project. [redacted] The additional cost requested for this project is for installing a new manhole and running new duct bank to the adjacent structures. This work results in Eversource needing to alter the design to relocate two feeders from the old manhole to the new manhole.

3. Supplement Justification Detail

This project requires supplemental funds because of a scope change for the relocation of underground facilities, which was not included in the original estimates.

The scope change includes:

- 1 - 8X14 MH
- 515 ft of six – 5" duct bank
- 60 ft of two – 5" duct bank
- 790 ft of 1000 CU cable

4. Supplement Cost Summary

Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Internal Labor and Construction Equipment	66.2	103.3	99.5	202.7
Outside Services	199.4	27.9	582.5	610.5
Materials	110.2	290.6	47.0	337.6
Removals	31.3	65.7	45.1	110.7
Risk and Contingency	0.0	0.0	181.6	181.6
Other	4.6	29.9	-15.7	14.2
Subtotal	**411.8**	**517.3**	**939.9**	**1,457.2**

Indirect Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Indirects/Overheads (including benefits)	309.0	305.6	800.1	1,105.7
Capitalized interest or AFUDC, if any	54.7	22.5	32.2	54.7
Subtotal	**363.7**	**328.1**	**832.3**	**1,160.4**
Total Capital Costs (Gross)	**775.5**	**845.4**	**1,772.2**	**2,617.6**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**775.5**	**845.4**	**1,772.2**	**2,617.6**

New Total Request by Year

Capital Costs	Prior Years Actual	2024 Actual	2024 Estimate	2025 Estimate	TOTAL
Internal Labor & Equipment	83.4	-11.7	100.6	49.7	222.0
Outside Services	251.0	-35.2	303.0	149.7	668.5
Materials	138.8	-19.5	167.6	82.8	369.7
Removals	0.0	0.0	0.0	0.0	0.0
Risk and Contingency	0.0	0.0	111.5	70.1	181.6
Other	5.8	-0.8	7.0	3.5	15.5
SUBTOTAL Direct Cost	**479.0**	**-67.2**	**689.7**	**355.8**	**1,457.2**
Indirects / Overheads	314.1	-5.1	536.7	260.0	1,105.7
AFUDC	43.5	11.2	0.0	0.0	54.7
SUBTOTAL Indirect Cost	**357.6**	**6.1**	**536.7**	**260.0**	**1,160.4**
TOTAL Capital Request	**836.6**	**-61.1**	**1,226.4**	**615.8**	**2,617.6**
Less Total Customer Contribution	0.0	0.0	0.0	0.0	**0.0**
TOTAL Project Cost	**836.6**	**-61.1**	**1,226.4**	**615.8**	**2,617.6**

A – Full Funding PAF:

Operations Project Authorization Form

Project Title: CDOT L034-001 – [redacted]	**Project Number: CD01633**
Date Prepared: 12/02/2022	**Company:** Eversource CT
Organization: Distribution Engineering	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** Line Relocations/Act of Public Authority
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** No
Estimated in service date: 12/31/2021	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? No	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: $845.39k	**Authorization Type:** Full Funding

Executive Summary

Full funding authorization of $845.39k is being requested for this project. This represents an increase of $521.08k or 161% of the approved preliminary funding of $324.31k. The cause of the project cost overage was due to several factors as follows:

- Multiple transfers of project ownership and time may have been charged to the project before it ended up with the Western Project group.
- Material acquisition issues resulting in delay.
- Property theft – poles were stolen by a contractor resulting in delay and increase in material cost.
- Necessary design change advised by field personnel to [redacted].
- Existing design constrains, with [redacted] what were on a double circuit pole configuration. This resulted in limited protection causing work delays.
- Overtime was utilized to take outages to commercial customers after business hours.

- Needed to coordinate extensively with other departments and organizations
  - Frontier had both OH and UG work that needed to be done in conjunction with Eversource work.
  - Norwalk UG and Stone Construction needed to trench and run new primary conductor for D structure relocation.
  - Test department for Recloser commissioning and reprogramming.
  - [redacted]

The original project was presented as follows:

The State of CT has contacted Eversource concerning CDOT Project L034-001. This project affects Eversource facilities on [redacted] *. The CDOT scope for this project is to address congestion and improve traffic operations at key junction area between* [redacted] *by installing dedicated turn lanes and pedestrian safety improvements which will require Eversource to relocate OH facilities on the* [redacted] *and* [redacted] *. Since this project is state funded, conducted by the town of Danbury on a town road, it is a non-reimbursable job. Attached below is the guideline for reimbursements for Eversource facility relocations as determined by the legal departments. This project is considered to be under trigger project #6 in the attached table.*



Utility relocation cost memo.pdf

Project Costs Summary

Note: Dollar values are in thousands

Capital Costs	Year 2022	Year 2023	Year 2024+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	$103.26			$103.26
Outside Services	$27.91			$27.91
Materials	$290.59			$290.59
Removals	$65.65			$65.65
Risk and Contingency	$0.00			$0.00
Other	$29.89			$29.89
Subtotal – Direct Costs	$517.30			$517.30
Indirect Capital Costs				
Indirect/Overheads (including benefits)	$305.61			$305.61
Capitalized interest or AFUDC, if any	$22.47			$22.47
Subtotal – Indirect Costs	$328.08			$328.08
Total Gross Capital Costs	**$845.39**			**$845.39**
Customer Contribution	$0.00			$0.00
Total Net Capital Project Costs	**$845.39**			**$845.39**

Technical Justification:

Project Need Statement:

The State of CT has contacted Eversource concerning CDOT Project L034-001. This project affects Eversource facilities on [redacted]. The CTDOT scope for this project is to address congestion and improve traffic operations at key junction area between [redacted] by installing dedicated turn lanes and pedestrian safety improvements which will require Eversource to relocate OH facilities on the [redacted].

Project Objectives

The objective of this project is to relocate Eversource OH facilities on [redacted] as requested by the State DOT to accommodate CDOT project L034-001.

Project Scope

In order to meet the above objectives, this project proposes the following:

- [redacted]
- [redacted]
- [redacted]

Major Material:

1. 2,985 of 556 AAC 175 MIL Covered Wire
2. 1 – Cooper Nova/Form 6 recloser with sectionalizing settings
3. 2- Eversource Pole 40 FT CL 2
4. 13 – Eversource Pole 45 FT CL 2
5. 1 – Eversource Pole 50 FT CL 1
6. 2 – Eversource Pole 50 FT CL 2

Background / Justification

State DOT is requesting Eversource to relocate facilities in conflict with CDOT L034-001.

Business Process and / or Technical Improvements:

All permanent construction will be in accordance with the latest Eversource standards.

Alternatives Considered:

Were alternative solutions considered/applicable? Include any cost/benefit analysis.

Project is a compliance obligation - no alternatives considered - no financial benefit

Regulatory Approvals:

Are Regulatory body approvals needed for the project?

No

If yes, provide detailed regulatory approvals

Project Schedule:

Milestone/Phase Name	Estimated Completion Date
Initial Funding Authorization	January 2021
Detailed Design	January 2021
Construction Begin	June 2021
Construction End	December 2021

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2021	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	2021	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2021	High	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.	2021	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2021	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2021	Low	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

References

None

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

Sketch

[redacted]Civil Plan.pdf

101338165 - Sketch_Danbury.pdf

CD01633 [redacted] L034-001 [redacted] D

One-line

CD01633 One_line.pdf

Need Statement

CD01633_project_needs_statement.pdf

Overage:

RE_ CD01633 - CDOT L034-001 [redacted] i