EVERSOURCE

Supplement Authorization Form

Project Title: REPAIR & REPL OF CL&P UG STRUCTURES	**Project Number:** CDMHANNL24
Date Prepared: 02/07/2025	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** UNDERGROUND STRUCTURE ISSUE
Project Initiator: [redacted]	**Project Type:** Annual
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)
Current Authorized Amount: $741.6K	**Approved In-Service Date:** 12/31/2024
Supplement Request: $1,215K	**Estimated In-Service Date:** 12/31/2024
Total Capital Request: $1,957K	**Authorization Type:** Supplement Request
	Reason: Cost Overage

1. Project Background

This 2024 annual project covers structural repairs identified during annual underground inspections in 2024. The goal is to rebuild or replace structures that are unsafe or no longer meet specific system needs. An approval of $741.6K was previously approved for the 2024 underground structural repairs annual work. An additional request of $1,215K is being made to cover additional underground structural work completed in 2024. The total capital request is $1,957K.

2. Supplement Justification Overview

- Significant increase in underground structural repair and replacement work.
- Work order counts increased 63% vs 2023 while the average cost per work order increased 74%.

3. Supplement Justification Detail

An additional approval of $1,215K is being requested for the 2024 underground structural repair and replacement annual projects. The amount of underground structural work exceeded expectations. This work is needed to reduce risk associated with public safety and liability, improved worker safety from elimination of job-site structural hazards, and quicker response to restoration activities.

Work order counts and spending increased in 2024 vs 2023:

	2023	2024	% Change
WO Count	16	26	63%
Actual $	693,258	1,957,595	182%
Ave $/WO	43,329	75,292	74%

4. Supplement Cost Summary (Project Total)

Financial Evaluation ($000's)

Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Internal Labor and Construction Equipment	41.6	15.8	25.8	41.6
Outside Services	803.7	304.6	499.1	803.7
Materials	49.8	18.9	30.9	49.8
Removals	465.7	176.3	289.4	465.7
Risk and Contingency	0.0	0	0	0.0
Other	1.5	0.6	0.9	1.5
Subtotal	**1,361.80**	**516.20**	**845.6**	**1,361.80**

Indirect Capital Costs	Total Request	Prior Authorized	Supplemental Request	Total Request
Indirects/Overheads (including benefits)	588.60	223.1	365.50	588.60
Capitalized interest or AFUDC, if any	6.6	2.5	4.10	6.6
Subtotal	**595.20**	**225.60**	**369.60**	**595.20**
Total Capital Costs (Gross)	**1,957.00**	**741.60**	**1,215.40**	**1,957.00**
			0	
Less Total Customer Contribution	**0**	**0**	**0**	**0**
			0	
Project Costs (Net of Reimbursement)	**1,957.00**	**741.60**	**1,215.40**	**1,957.00**

5. New Total Request by Year (if applicable)

Note: If multi-year project, include actuals for current and years past, and then show forecasted spend for upcoming years.

6. Lessons Learned

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Project Title: REPAIR & REPL OF CL&P UG STRUCTURES	**Project Number:** CDMHANNL24
Date Prepared: 04/12/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** UNDERGROUND STRUCTURE ISSUE
Project Initiator: [redacted]	**Project Type:** Annual
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: 12/31/2024	
Total Capital Request: $741.6K	**Authorization Type:** Full Funding

7. Executive Summary

Full Funding is being requested for this project at a cost of $741.6K for structural repairs identified during annual underground inspections in 2024. This project pertains to high volume work orders not to exceed $500K per work order and covers the entire state of CT. Capital work orders initiated against this annual project must include total costs less than or equal to $500K. Any work order exceeding $500K will require a separate Project Authorization Form (PAF).

The main goal of this project is to rebuild or replace structures that are unsafe or no longer meet specific system needs. Structures to be replaced will be identified through regular inspection programs and subsequent evaluations by civil engineers. The Company prioritizes repairs for emergent issues on an annual basis.

8. Project Cost Summary

Capital Costs	2024	Total
Internal Labor and Construction Equipment	15.8	15.8
Outside Services	304.6	304.6
Materials	18.9	18.9
Removals	176.3	176.3
Other	0.6	0.6
Risk and Contingency	0.0	0.0
Subtotal	**516.1**	**516.1**

Indirect Capital Costs	2024	Total
Indirects/Overheads (including benefits)	223.1	223.1
Capitalized interest or AFUDC, if any	2.5	2.5
Subtotal	**225.5**	**225.5**
Total Capital Costs (Gross)	**741.6**	**741.6**
Less Total Customer Contribution	**0.0**	**0.0**
Project Costs (Net)	**741.6**	**741.6**

9. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

This project will address underground structures that need to be repaired, replaced, or removed for the betterment of the electrical distribution system.

b. Project Need

Structural repairs are required to ensure the safety of workers and the public. Safety would be negatively impacted if structural failures were not addressed. This is done by rebuilding or replacing structures that are unsafe or no longer meet specific system needs. Typical structures include concrete manholes, service boxes, transformer vaults and duct structures. The most common mode of structural failure is in the roof and/or cover of underground structures. These components take the majority of mechanical stress from above-ground traffic. Other less common failure modes include age/obsolescence of materials and previous but undiscovered damage done by past excavation for road or utility work.

c. Project Scope

Reduction in risk associated with public safety and liability, improved worker safety from elimination of job-site structural hazard, quicker response to restoration activities.

Major Material

- Vault roofs
- Vault grates
- Roof beams
- Concrete repairs
- Manhole covers
- Service boxes

10. Alternatives Considered

The alternative is to not repair these structures and risk the safety of workers and members of the public.

11. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Construction Start	01/01/2024
In Service Date	12/31/2024

12. Regulatory Decisions

N/A

13. Codes and Standards

N/A

14. Risk and Contingencies

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2024	Medium	Create a PAF if the Work Order cost exceeds $500k
Internal construction resources not available to perform the work.	2024	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.

System abnormal configuration	2024	Low	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

15.

References
1. N/A

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

Attachment	Included in Submittal?
A. Cost Estimate	
B. Partial PAF	