EVERSOURCE

Project Approval Form

Project Title: Line Relocation Rubber Ave Naugatuck	Project Number: CD01872
Date Prepared: 05/13/2024	**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: $1,048.9K	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of **$1,048.9K** which is 103% of the partial funding capital estimate of $1,012K. There is no scope change on the project. This project falls within the 15% threshold relative to the initial funding request and is therefore being fully requested with no changes anticipated.

The Original Project was presented as follows:

- *This project is being established to cover the costs associated with relocation of facilities in conflict with the road widening of Rubber Ave., Naugatuck. Road improvements are being done under CDOT project L087-003-LOTCIP and is projected to start in the spring of 2022.*
- *The scope of the electrical relocation work includes relocation of 46 poles and replacement of 3,600' of 336 AAC bare primary with 556 AAC spacer cable.*
- *Since this is a municipal line relocation project, there is no reimbursement of the utility relocation costs, based on item #6 of the attached Utility relocation cost reimbursement guideline.*

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2023 Actual	2024 Estimate	Total
Direct Capital Costs			
Internal Labor and Construction Equipment	70.2	154.3	224.5
Outside Services	11.2	24.6	35.7
Materials	60.9	133.8	194.8
Removals	12.0	29.6	41.7
Risk and Contingency	0.0	39.3	39.3
Other	4.0	8.7	12.7
Subtotal – Direct Costs	**158.3**	**390.5**	**548.8**
Indirect Capital Costs			
Indirect/Overheads (including benefits)	17.5	478.4	495.9
Capitalized interest or AFUDC, if any	0.4	3.8	4.2
Subtotal – Indirect Costs	**17.8**	**482.2**	**500.1**
Total Gross Capital Costs	**176.2**	**872.8**	**1,048.9**
Customer Contribution	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**176.2**	**872.8**	**1,048.9**

Explain unique payment provisions, if applicable:

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted] The roadway in this area is being widened as part of CDOT project L087-003. The [redacted]

b. Project Need

CDOT project L087-003 has been established for road widening and intersection improvements to Rubber Ave Naugatuck, from Old Firehouse Rd to Melbourne St. Therefore, this project has been established for the relocation of facilities in conflict with the road widening work.

c. Project Scope

The facilities relocation includes relocation of 46 poles and the replacement of 3,600' of 336 AAC bare primary with 556 AAC spacer cable. This also includes [redacted]

In addition, since the scope includes the [redacted]

4. Alternatives Considered

Due to the nature of this project, there are no alternatives to the proposed work.

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	December 2021
100% Detailed Engineering Completion	January 2022
Construction Start	April 2022
In Service Date	December 2024

6. Regulatory Decisions

CDOT approval of new pole locations.

7. Codes and Standards

8. Risk and Contingencies

Risk Mitigation:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2022	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	2022	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2022	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.	2022	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2022	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2022	Low	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

9. References

References
1. Utility Relocation Permit

Updated: 12/29/18: Eversource CT: Guidelines For Cost Reimbursement For Utility Relocations

#	Trigger Project	Utility Co.'s Share of Relocation Cost	Laws
1	State Roadway Projects	• Utility Co. pays 50% • Applies whenever utilities abutting or in a "state highway or any other public highway" must be relocated because of "the construction or reconstruction of a state highway". • DOT is obligated to design the project in a manner that minimizes costs to DOT and Eversource • If DOT and Eversource cannot agree on location of the relocated equipment, Commissioners of DOT & PURA resolve the dispute • If DOT and Eversource cannot agree on allocation of the costs for the relocation work, then either may file claim in court. • But C.G.S. § 13a-126a states Utility Co. pays 0% for any utility relocations requested by DOT for "aesthetic" reasons	• C.G.S. § 13a-126 • C.G.S. § 13a-126a
2	Rail Facility Projects	•Utility Co. pays 100% •Applies when DOT orders a Utility Co. to relocate utility equipment on or in a rail structure or road abutting a rail structure • *But Utility Co. entitled to 50% reimbursement for relocation of facilities abutting or on state highways or any other public highway when triggered by DOT's construction or reconstruction of a state highway*	C.G.S. § 13b-283(e)
3	Federal Surface Transportation Urban Program Roadway Projects	• Utility Co. pays 100% •Check if the relocation is triggered by a "federal surface transportation urban program roadway"[1] project • *But Utility Co. entitled to 50% reimbursement for relocation of facilities abutting or on state highways or any other public highway when triggered by DOT's construction or reconstruction of a state highway*	C.G.S. § 13a-98f
4	State Flood Control Projects	•Utility Co. pays 0% •Applies whenever the construction of any flood control project, including its reservoirs, for which the State has agreed to provide the necessary lands, easements and rights-of-way, requires the readjustment, relocation or removal of utility equipment	C.G.S. § 25-83a
5	Municipal Redevelopment Authority Projects	Utility Co. pays 50%	C.G.S. § 8-133a
6	All Other Municipal Projects	• Betterments:[2] Utility Co. pays 0% • "Proprietary" Projects:[3] Utility Co. pays 0% • Sewer or Pollution Abatement Projects:[4] Utility Co. pays 0% • All Other Municipal Projects that Require Utility Relocations: 1st Relocation: Utility Co. pays 100% 2nd Relocation during Course of Exact Same Project: Utility Co. pays 0%	See footnotes

[1] "Federal surface transportation urban program roadway or facility" means "any state or locally maintained roadway or facility that is deemed eligible for surface transportation urban program funding in accordance with the Transportation Equity Act for the 21st Century, all amendments to said act and all applicable federal regulations". C.G.S § 13a-98m.
[2] An example of a "betterment" would be if a municipality wanted existing above-ground utilities installed underground or relocated to a different location for aesthetic reasons, or to enhance recreational or community use of the area. PURA's Sep. 18, 2013 decision in Docket No. 13-03-11 states that a "municipality does not have the authority to order . . . betterments to the system and thus shift that cost to the utility, ***unless the betterment is proven to be in the public interest of utility ratepayers.***"[2] Additionally, PURA's June 26, 1991 decision in Docket No. 86-02-14 concluded that – unless a municipality could demonstrate to PURA that a betterment provided "a direct benefit to . . . utilities or their ratepayers, or that a public necessity exits for" the betterment – then the municipality was solely responsible for the cost of the betterment.[2]
[3] PURA's Dec. 12, 1990 letter order in Docket No. 90-03-21 states that the term "proprietary" means that the utility relocation work is being performed for the benefit of a specific business, commercial development project or customer, and the work is not being performed for the overall safety and welfare of the general public. For example, road widenings for construction of a new or upgraded shopping plaza are "proprietary" and the associated utility relocation work must be paid for 100% by the developer and/or the municipality.
[4] Whenever a municipality obtains funding from the State to pay for any portion of the cost to construct or reconstruct sewers or pollution abatement facilities, C.G.S. § 22a-470 requires it to provide 100% reimbursement to a Utility Company to relocate its utility facilities, subject to a deduction for salvage value and depreciation.

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

Attachment	Included in Submittal?
A1. Partial Funding PAF Form	*YES*
A. Project Need Statement	*YES*
B. Geographic Map	*YES*
C. Project Load Summary	*YES*

A1. PAF File

Operations Project Authorization Form

Date Prepared: 12/14/2021	**Project Title: Line Relocation Rubber Ave Naugatuck**
Company/ies: Eversource CT	**Project ID Number: CD01872**
Organization: Distribution Electric	**Class(es) of Plant: Distribution**
Project Initiator: [redacted]	**Project Category: Line**
Project Manager: [redacted]	**Project Type: Line Relocations/Act of Public Authority-L4**
Project Sponsor: [redacted]	**Project Purpose: Relocate Facilities as required**
Estimated in service date: 9/30/2022	**If Transmission Project: PTF? N/A**
Eng. /Constr. Resources Budgeted? N	**Capital Investment Part of Original Operating Plan? N**
Authorization Type: Preliminary Funding	**O&M Expenses Part of the Original Operating Plan? N**
Total Request: $1,097,103	

Financial Requirements:

Project Authorization

ERM: _____

FP&A: _____

Executive Summary

This project is being established to cover the costs associated with relocation of facilities in conflict with the road widening of Rubber Ave., Naugatuck. Road improvements are being done under CDOT project L087-003-LOTCIP and is projected to start in the spring of 2022.

The scope of the electrical relocation work includes relocation of 46 poles and replacement of 3,600' of 336 AAC bare primary with 556 AAC spacer cable.

The cost of this project is estimated to be $1,097K. Since this is a municipal line relocation project, there is no reimbursement of the utility relocation costs, based on item #6 of the attached Utility relocation cost reimbursement guideline.

Project Costs Summary

Note: Dollar values are in thousands

	Prior Authorized	2022	2023	2024+	Totals
Capital Additions - Direct	$0	$532	$0	$0	$532
Removals net of Salvage ____%	$0	$72	$0	$0	$72
Total - Direct Spending	$0	$605	$0	$0	$605
Capital Additions - Indirect	$0	$385	$0	$0	$385
Subtotal Request	$0	$989	$0	$0	$989
AFUDC	$0	$22	$0	$0	$22
Total Capital Request	$0	$1,012	$0	$0	$1,012
O&M	$0	$86	$0	$0	$86
Total Request	$0	$1,097	$0	$0	$1,097

Financial Evaluation

Note: Dollar values are in thousands

Direct Capital Costs	2022	2023	2024+	Total
Straight Time Labor	$51	$0	$0	$51
Overtime Labor	$8	$0	$0	$8
Outside Services	$419	$0	$0	$419
Materials	$122	$0	$0	$122
Other, including contingency amounts (describe)	$4	$0	$0	$4
Total Direct Costs	**$605**	**$0**	**$0**	**$605**

Indirect Capital Costs	2022	2023	2024+	Total
Indirects/Overheads (including benefits)	$385	$0	$0	$385
Capitalized interest or AFUDC, if any	$21	$0	$0	$21
Total Indirect Costs	**$405**	**$0**	**$0**	**$405**
Total Capital Costs	**$1,010**	**$0**	**$0**	**$1,010**
Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Capital Project Costs	**$1,010**	**$0**	**$0**	**$1,010**
Total O&M Project Costs	**$87**	**$0**	**$0**	**$87**
Total Project Cost	**$1,097**	**$0**	**$0**	**$1,097**

Note: Explain unique payment provisions, if applicable

Technical Justification:

Project Need Statement

CDOT project L087-003 has been established for road widening and intersection improvements to Rubber Ave Naugatuck, from Old Firehouse Rd to Melbourne St. Therefore, this project has been established for the relocation of facilities in conflict with the road widening work.

Project Objectives

Relocate facilities in conflict with the road widening proposed for Rubber Ave., Naugatuck per CDOT project L087-003.

Project Scope

The facilities relocation includes relocation of 46 poles and the replacement of 3,600' of 336 AAC bare primary with 556 AAC spacer cable. [redacted]

[redacted]

Major Material:

- 3,600' of 556 AAC spacer cable & 052 messenger
- 1 – Cooper Nova recloser for 13.2/13.8kV & Form 6 control
- 110' of 3 phase 556 AAC 175 MIL conductor
- 1- 900 Amp Group-Operated Air-Break switch

Background / Justification

[redacted]

Business Process and / or Technical Improvements:

- Replacement of open wire conductors with spacer cable construction for improved reliability performance.
- Larger conductor size along Rubber Avenue for increased feeder capacity.
- Replacement of poles along the feeder backbone for improved system resiliency.

Alternatives Considered with Cost Estimates

Due to the nature of this project, there are no alternatives to the proposed work.

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Preliminary Approval	December 2021
Detailed Design	January 2022
Construction Start Date	April 2022
Construction End Date	September 2022

Regulatory Approvals

CDOT approval of new pole locations.

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2022	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	2022	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2022	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.	2022	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2022	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2022	Low	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

A. Project Needs Statement

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01872

Line Relocation Rubber Ave Naugatuck

Work Classification

Category: Line
Type: RBPR
Type Desc: LINE RELOCATIONS/ACT OF PUBLIC
Work Type:

Ownership / Management

AWC: Cheshire
Statewide: No
Owner: Pabon, Manuel
Manager: Manley, Dean

Project Information

Status: Draft
SPS #:
AIS Score:
Associated Projects:
Assignment ID:
Patrol Find ID:

Budget Summary - Preferred Option

Line Relocation Rubber Ave

2023

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	Relocate Facilities Rubber Ave	Prelim	0	28%	$1,097,103	$1,097,103
				2023 Total:	$1,097,103	$1,097,103
				Total Project:	$1,097,103	$1,097,103

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01872

Line Relocation Rubber Ave Naugatuck

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	Line Relocation Rubber Ave	1	$1,097,103	$0	100%	$0.00	$0.00	☑

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	Relocate Facilities Rubber Ave	$1,097,103			$0.00	$0.00

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01872
Line Relocation Rubber Ave Naugatuck

Background / Scope

Issue:

This project is being established to cover the costs associated with Line Relocation of the [redacted] on Rubber Ave., Naugatuck, due to road widening & intersection improvements.

Project Description:

Replace 46 poles & 3600' of 336 bare priamry with 556 AAC spacer cable

[redacted]

Other Considerations:

Revision / ACT Comments:

If we don't do this project, what will happen?

The Borough of Naugatuck will be quite displeased with our response to this line relocation request.

Environmental

Water Pollution: No Change Soil Contamination: No Change Natural Habitats: No Change

Alternatives considered based on Environmental Impact or Description of Aspects Oil Spill Risks Considered? ☐

Safety Concerns With This Project? ☐

Explain:

External Stakeholders

Customer Impact / Involvement

Cust. Impacted: Approx. Pole Count (NU):

Crit. Cust. Impacted: Approx. Pole Count (Other):

Adjoining Property Owner Consent Required: ☐ Town Hearing Required: ☐

Other Utility Pole Custodian Area: ☐ Easement Required: ☐

State Highway Permit Required: ☐

Relocation / New Service

New Srvc. Contact: Requestor Type:

Customer Type: State Highway Project #:

Request Number: Route #:

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01872
Line Relocation Rubber Ave Naugatuck

Design Alternative CD01872-01

General Information

Segment: 1 - Relocate Facilities Rubber Ave | Status: Prelim Design Submitted
Segment Type: RELOCATION - OH SPECIFIC | Town: NAUGATUCK | Budget Year: 2023
Work Type: BB-Reconductoring | Trimming Required: ☐ | In Service Date: 12/31/2023
Description: Relocate facilities on Rubber Ave Naug in conflict with road improvement work

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01872

Line Relocation Rubber Ave Naugatuck

Design Alternative CD01872-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$857,112
Contingency Amount:	$239,991
Estimate:	$1,097,103
Reimbursement:	$0
Net Amount:	**$1,097,103**

Description:

Item Description	CU	Amount
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	$113,000.00
POLE OH - POLE - 3ph (CL&P custodian)	16-OH14	$107,548.00
POLE OH - Install/Replace Anchor and Guy	16-OH14B	$30,323.20
OH WIRE OH - Reconductor w/Spacer Cable - 556 kcmil	16-OH29	$368,640.00
OH WIRE OH - Remove circuit wire (3 phase)	16-OH37A	$11,520.00
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph Add in-line switches for new [redacted] nstallation.	16-OH43	$10,283.20
OTHER OTHER Contract Labor: additional 20%	16-ALL14	$150,000.00
SECTIONALIZE OH - Recloser - 3ph New Cooper Nova for [redacted]	16-OH38	$47,989.60
OH WIRE OH - Remove circuit wire (3 phase) rem 21L2 overbuild on Rubber Ave from Cherry St to Church St	16-OH37A	$1,600.00

Asset & Investment Management System 12/13/2021 Page 5 of 6

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01872

Line Relocation Rubber Ave Naugatuck

Design Alternative			CD01872-01
SECTIONALIZE OH - Remove Recloser (any) Remove old 21L1-70S	16-OH42	[redacted]	$5,656.00
OH WIRE OH - Remove circuit wire (3 phase) remove unused aerial cable	16-OH37A		$2,016.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil Scott St 21L2 fill in gap to Water St	16-OH27		$8,536.00

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]	[redacted]					
Existing							

Reliability Projection

Title:

Outage Start Date: 12/14/2017 Outage End Date: 12/13/2021 Years History: 4

[redacted]

EVERSOURCE

Project Approval Form

[redacted]

[redacted]

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Project Approval Form

[redacted]