EVERSOURCE

Project Approval Form

Project Title: CDOT 130-173 Exit 14 Southbury	Project Number: CD01897
Date Prepared: 11/09/2023	**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: 6/1/2024	
Total Capital Request: $119,900.00 (50% Reimbursable)	**Authorization Type:** Full Funding

1. Executive Summary

The State of CT has contacted Eversource concerning CDOT Project 130-173. This project affects Eversource facilities on the intersection of interstate 84/exit 14 and Lakeside Rd. in Southbury.

The CDOT scope for this project is to move poles for an additional road lane. Since this project is state roadway project it is 50% reimbursable. Attached below is the guideline for reimbursements for Eversource facility relocations as determined by the legal departments. This project is considered under trigger project #1 in the attached table.

The detailed estimate is $119.9K, which is 36% of the high level estimate of $334K. The major difference in cost was the reduced scope of work. The overhead relocation portion of the project originally called for reconductoring. In the detailed estimate, the existing overhead conductor was able to be shifted with only about 100' reconductored. Additionally, 350' of the underground cable was not needed. The other cost difference was attributed to the work being done using internal crews and not contractors as well as reduced traffic control.

$334,000	approved partial funding
-$50,000	traffic control
-$18,973	non-network switching
-$34,920	-450' of overhead cable
-$24,000	-250' of UG cable
-$9,000	Wire removal
-$32,854	contingency cost

$164,253 **Total Costs not needed**

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	17.8	0.0	0.0	17.8
Outside Services	0.0	0.0	0.0	0.0
Materials	42.8	0.0	0.0	42.8
Removals	5.9	0.0	0.0	5.9
Risk and Contingency	10.9	0.0	0.0	10.9
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**77.5**	**0.0**	**0.0**	**77.5**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	42.5	0.0	0.0	42.5
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal – Indirect Costs	**42.5**	**0.0**	**0.0**	**42.5**
Total Gross Capital Costs	**119.9**	**0.0**	**0.0**	**119.9**
Customer Contribution	**-60.0**	**0.0**	**0.0**	**-60.0**
Total Net Capital Project Costs	**60.0**	**0.0**	**0.0**	**60.0**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

State DOT is requesting Eversource to relocate facilities in conflict with CDOT 130-173.

b. Project Need

State of CT, Project 130-173, affects Eversource facilities on the intersection of interstate 84/exit 14 and South Britain Rd. in Southbury.

The CDOT scope for this project is to address congestion and improve traffic operations at the street junction by widening the road and installing new traffic box span which will require Eversource to relocate poles for OH facilities.

Major Material:

- 11x new poles; 45'
- 7x transformers; 3ph, 25kva.
- 1x new vacuum type recloser; 21K8-91T
- 1x pole riser; 3ph primary
- 450 ft. of Overhead (3ph) 556 ACSR.
- 350 ft. of Underground (3ph) 1000 Cu.

c. Project Scope

Project CDOT 130-173 requires a recloser replacement and some underground work on circuit 21K11.

[redacted]



4. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	12/2021
100% Detailed Engineering Completion	7/2023
Fully Funded	11/2023
Construction Start	1/2024
In Service Date	10/2024

5. Regulatory Decisions

N/A

6. Codes and Standards

N/A

7. Risk and Contingencies

Contingencies:

Risk Mitigation:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2024	Low	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	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.	2024	High	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2024	High	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.
Technological risks involving integration of new technology	2024	Low	Before use of new technology ensure support of standards and manufacturer. Schedule project to accommodate for extra time or ensure new technology is not on the critical path.
Wetlands / Environmentally sensitive area	2024	Low	Use of mats and specialty equipment, only work during certain times of the year.

8. References

References
1.
2.
3.
4.
5.

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Geographic Map	*YES*
C. Easement Maps	*YES*
D. Load Sheet	*N/A*
E. Utility Relocation Cost Memo	*YES*

A. Cost Estimate

Design Alternative CD01897-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$269,698
Contingency Amount:	$64,727
Estimate:	$334,425
Reimbursement:	$0
Net Amount:	$334,425
Description:	

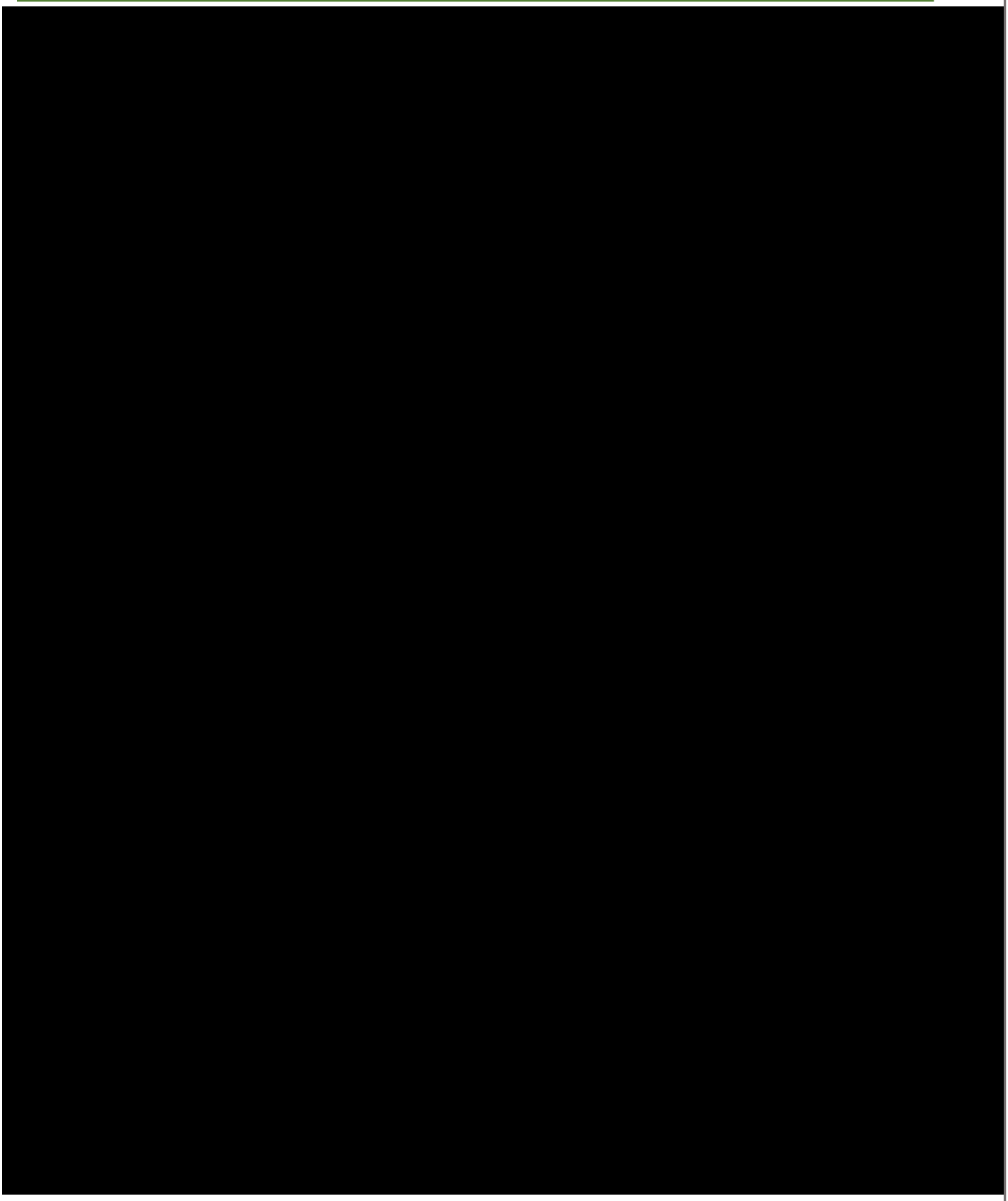
Item Description	CU	[redacted]	Amount
OH WIRE OH - Remove circuit wire (3 phase)	16-OH37A		$2,080.00
UG CABLE UG - Cable Removal - all cables	16-UG117		$7,000.00
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18		$50,000.00
UG CABLE DB/UG - 750/1000 - 3-1/C (3ph) Cu	16-UG114B		$33,600.00
OH WIRE OH - Reconductor Open Wire Secondary w/ Triplex Pole 18578 to pole 18578-S	16-OH30		$800.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) Pole 18580 to 18580-S	16-OH25		$2,400.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil Pole 646 to pole 18576 on Lakeside Rd.	16-OH27		$34,920.00
OTHER OTHER Pole Relocations, Recloser replacement, and UG cable work	16-ALL14		$110,800.00
SWITCHING OH/DB/UG - SWITCHING Network Shifting a riser a few feet.	16-ALL15		$28,097.60

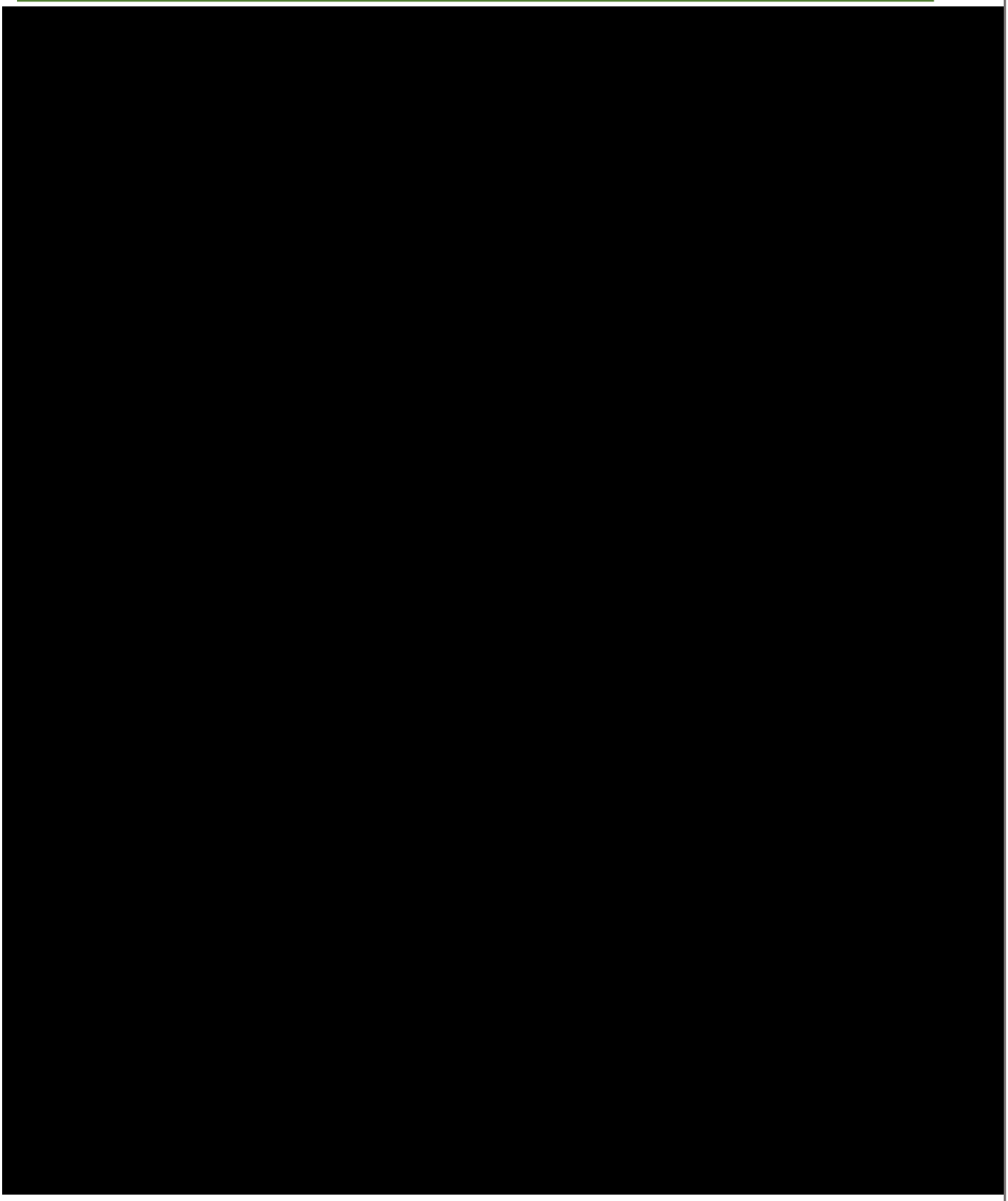
Associated / Impacted Devices

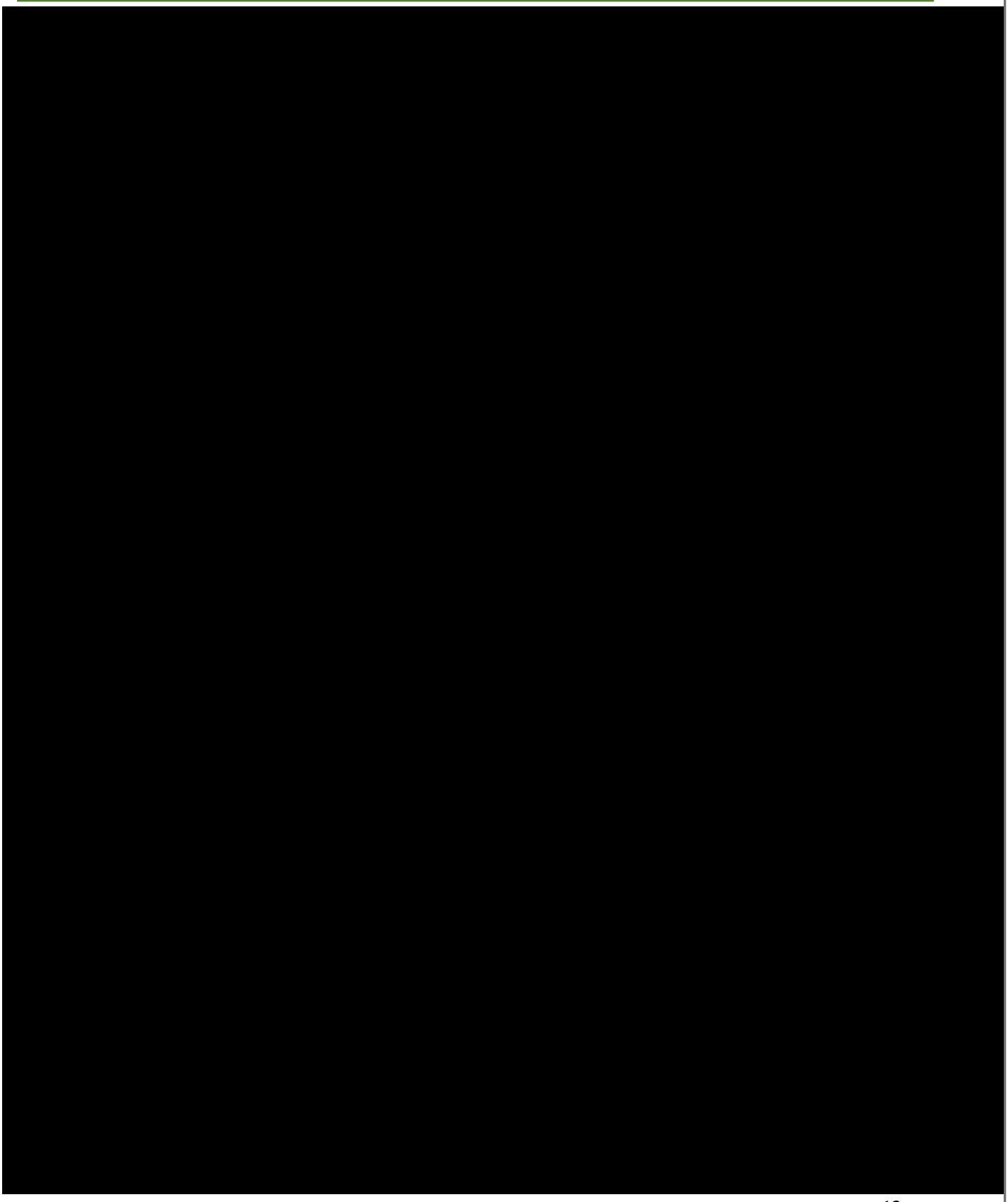
Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]						
Existing							

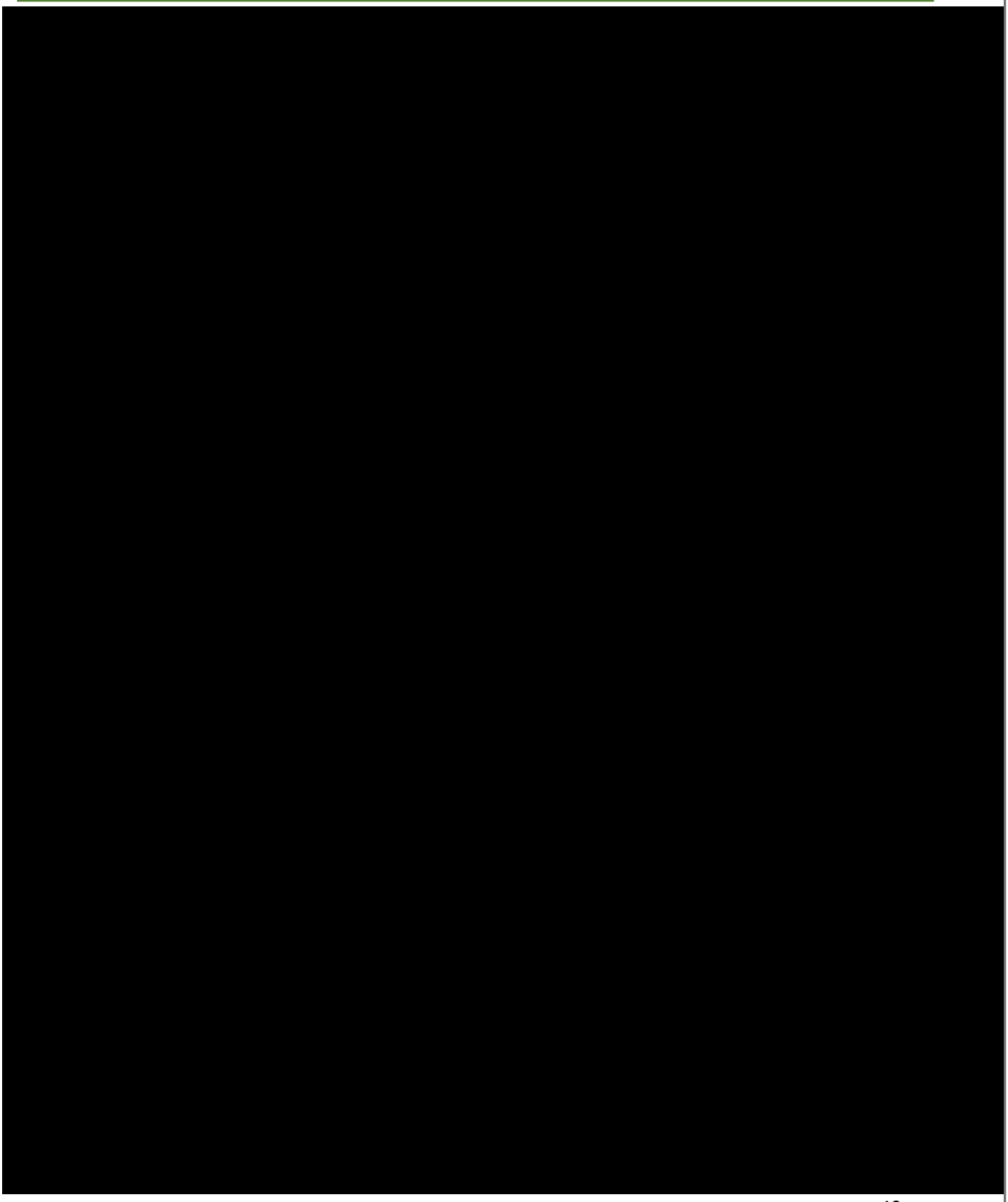
B. Geographic Map

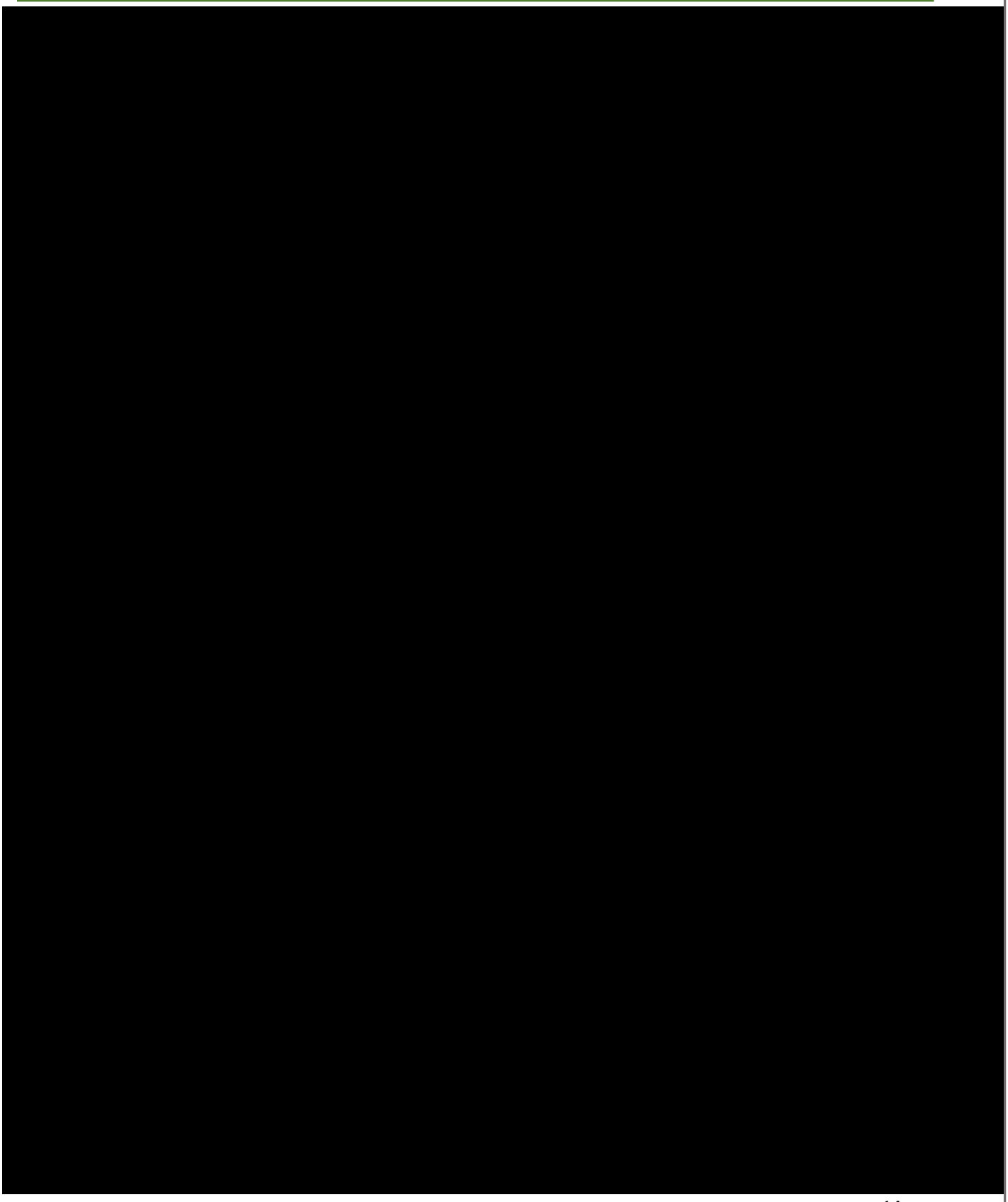
[redacted]











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Project Authorization Form

Operations Project Authorization Form

Date Prepared: 12/28/2021	Project Title: CDOT 130-173 Exit 14 Southbury
Companies: Eversource CT	Project ID Number: CD01897
Organization: Distribution Electric	Class(es) of Plant: Distribution
Project Initiator: [redacted]	Project Category: Line Relocation
Project Manager: [redacted]	Project Type: Specific
Project Sponsor: [redacted]	Project Purpose: Line Relocation
Estimated in-service date: 7/31/2023	If Transmission Project: PTF? N/A
Eng. /Constr. Resources Budgeted?	Capital Investment Part of Original Operating Plan?
Authorization Type: Initial Funding	O&M Expenses Part of the Original Operating Plan?
Total Request: $334,425.02 (50% reimbursable)	

Financial Requirements:

Project Authorization
ERM: _____

FP&A: _____

Executive Summary

The State of CT has contacted Eversource concerning CDOT Project 130-173. This project affects Eversource facilities on the intersection of interstate 84/exit 14 and Lakeside Rd. in Southbury.
The CDOT scope for this project is to move poles for an additional road lane. Since this project is state roadway project it is 50% reimbursable. Attached below is the guideline for reimbursements for Eversource facility relocations as determined by the legal departments. This project is considered under trigger project #1 in the attached table.

Utility relocation cost memo.pdf

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Project Authorization Form

Project Costs Summary
Note: Dollar values are in thousands

	Prior Authorized	2022	2023	2024+	Totals
Capital Additions - Direct	$0	$62	$0	$0	$62
Less Customer Contribution	$0	$167	$0	$0	$167
Removals net of Salvage ____%	$0	$14	$0	$0	$14
Total - Direct Spending	$0	$243	$0	$0	$243
Capital Additions - Indirect	$0	$65	$0	$0	$65
Subtotal Request	$0	$309	$0	$0	$309
AFUDC	$0	$2	$0	$0	$2
Total Capital Request	$0	$310	$0	$0	$310
O&M	$0	$24	$0	$0	$24
Total Request	$0	$334	$0	$0	$334

Financial Evaluation
Note: Dollar values are in thousands

Direct Capital Costs	2022	2023	2024+	Total
Straight Time Labor	$12	$0	$0	$12
Overtime Labor	$2	$0	$0	$2
Outside Services	$52	$0	$0	$52
Materials	$9	$0	$0	$9
Other, including contingency amounts (describe)	$0	$0	$0	$0
Total Direct Costs	**$76**	**$0**	**$0**	**$76**

Indirect Capital Costs	2022	2023	2024+	Total
Indirects/Overheads (including benefits)	$65	$0	$0	$65
Capitalized interest or AFUDC, if any	$2	$0	$0	$2
Total Indirect Costs	**$67**	**$0**	**$0**	**$67**
Total Capital Costs	**$143**	**$0**	**$0**	**$143**
Less Total Customer Contribution	**$167**	**$0**	**$0**	**$167**
Total Capital Project Costs	**$310**	**$0**	**$0**	**$310**
Total O&M Project Costs	**$24**	**$0**	**$0**	**$24**
Total Project Cost	**$ 334**	**$ -**	**$ -**	**$ 334**

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Technical Justification:

Project Need Statement:

State of CT, Project 130-173, affects Eversource facilities on the intersection of interstate 84/exit 14 and South Britain Rd. in Southbury.
The CDOT scope for this project is to address congestion and improve traffic operations at the street junction by widening the road and installing new traffic box span which will require Eversource to relocate poles for OH facilities.

Project Objectives
The objective of this project is to relocate Eversource OH facilities on Lakeside Rd. as requested by the State DOT to accommodate CDOT project 130-173.

Project Scope



Major Material:

1. 11x new poles; 45'
2. 7x transformers; 3ph, 25kva.
3. 1x new vacuum type recloser; 21K8-91T
4. 1x pole riser; 3ph primary
5. 450 ft. of Overhead (3ph) 556 ACSR.
6. 350 ft. of Underground (3ph) 1000 Cu.

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Background / Justification
State DOT is requesting Eversource to relocate facilities in conflict with CDOT 130-173.

Business Process and / or Technical Improvements:
All permanent construction will be in accordance with the latest Eversource standards.

Alternatives Considered with Cost Estimates

No Alternative

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Initial Funding Authorization	January 2022
Detailed Design	July 2022
Construction Begin	January 2023
Construction End	July 2023

Regulatory Approvals
None

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.

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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.

References
None

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

Sketch

