EVERSOURCE

Project Approval Form

Project Title: [redacted]	**Project Number: CD02024**
Date Prepared: 12/12/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** SMART SWITCHES PROGRAM
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: 12/31/24	
Total Capital Request: $266.9k	**Authorization Type:** Full Funding

1. Executive Summary

This project is being established to address the [redacted]

[redacted]

[redacted]

The purpose of project CD02024 is to [redacted]

Legacy estimating units were used to estimate project costs for partial approval. Most of the difference is due to inflation of material.

2. Project Cost Summary

Financial Evaluation ($000's)

Capital Costs	2024	2025	2026	Total
Internal Labor and Construction Equipment	35.2	0.0	0.0	35.2
Outside Services	7.4	0.0	0.0	7.4
Materials	95.6	0.0	0.0	95.6
Removals	6.9	0.0	0.0	6.9
Risk and Contingency	18.6	0.0	0.0	18.6
Other	0.0	0.0	0.0	0.0
Subtotal	163.7	0.0	0.0	163.7

Indirect Capital Costs	2024	Year2	Year 3+	Total
Indirects/Overheads (including benefits)	103.2	0.0	0.0	103.2
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal	103.2	0.0	0.0	103.2
Total Capital Costs (Gross)	266.9	0.0	0.0	266.9
Less Total Customer Contribution	0.0	0.0	0.0	0.0
Project Costs (Net of Reimbursement)	266.9	0.0	0.0	266.9

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

The project was created as part of an initiative to reduce customer zone sizes to less than 500 customers.

Outage History:

[redacted]

b. Project Need

[redacted]. With these changes, it will greatly increase reliability and reduce the number of customers that will experience an outage in this area.

c. Project Scope

The scope of this project is as follows:
[redacted]

Major Material:
- 2 reclosers
- 2 Disconnect Switches
- 1 Transformer

4. Alternatives Considered

Option 1 - [redacted]

Option 2 – [redacted]

	Option	
[redacted]		
Capital Cost	$266.9K	$91.7K
Expense Cost	$7.7K	$2.7K
Total Cost	$274.6K	$94.4K
Preferred option	X	

Note – All estimates were calculated due to updated estimating units.

5. Project Schedule

Milestone Phase Name	Estimated Date
Partial Approval	June 2022
100% Detailed Engineering Completion	Dec 2023
Construction Start	October 2024
In Service Date	December 2024

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Detail Map	*YES*
C. One-line	*YES*
D. Load Sheet	*YES*
E. Partial Funding PAF	*YES*

Attachment A: Cost Estimate:

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02024 [redacted]

Work Classification		Ownership / Management	
Category:	Line	AWC:	Cheshire
Type:	SRSS	Statewide:	No
Type Desc:	SMART SWITCHES PROGRAM	Owner:	[redacted]
Work Type:		Manager:	[redacted]

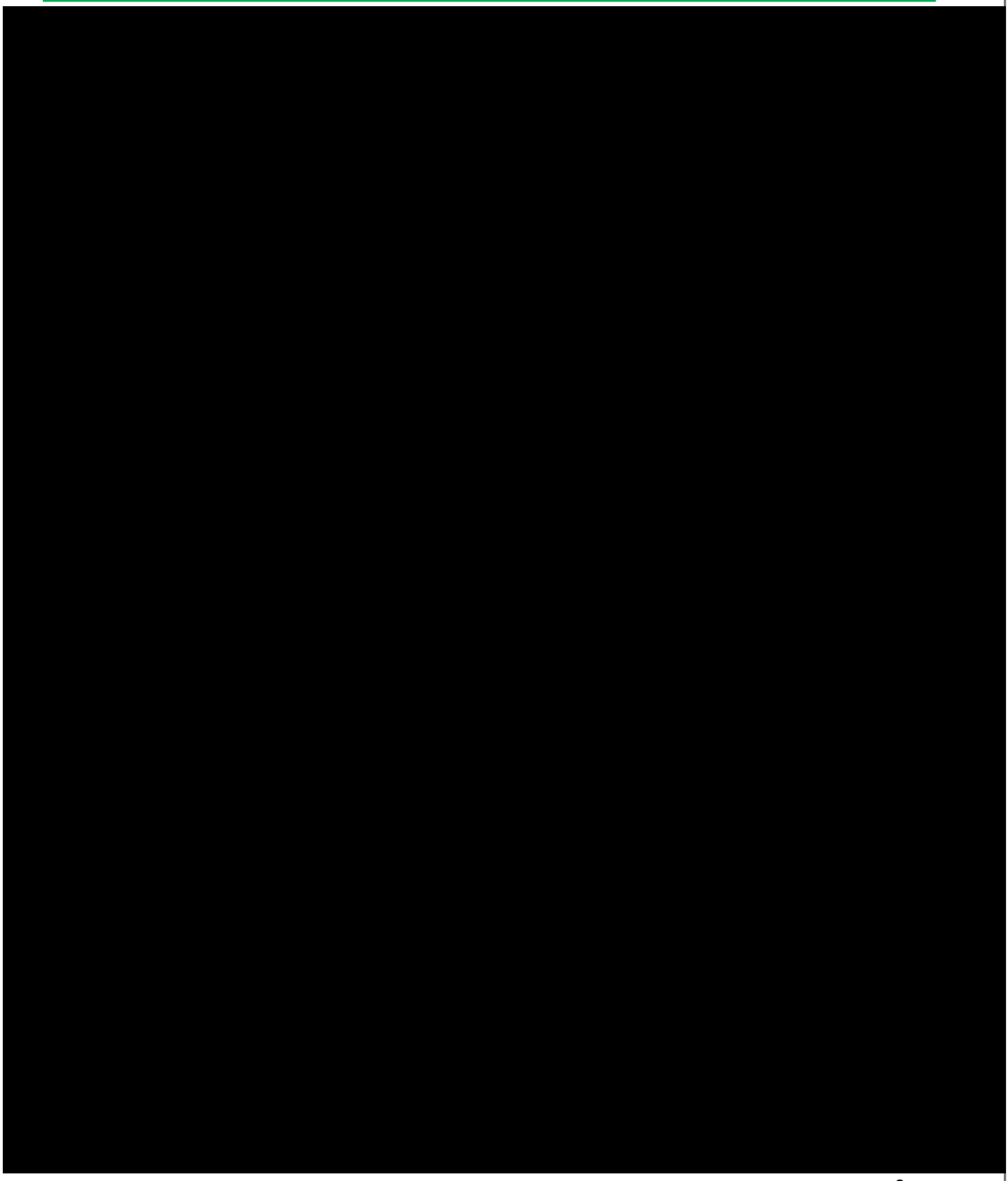
Project Information

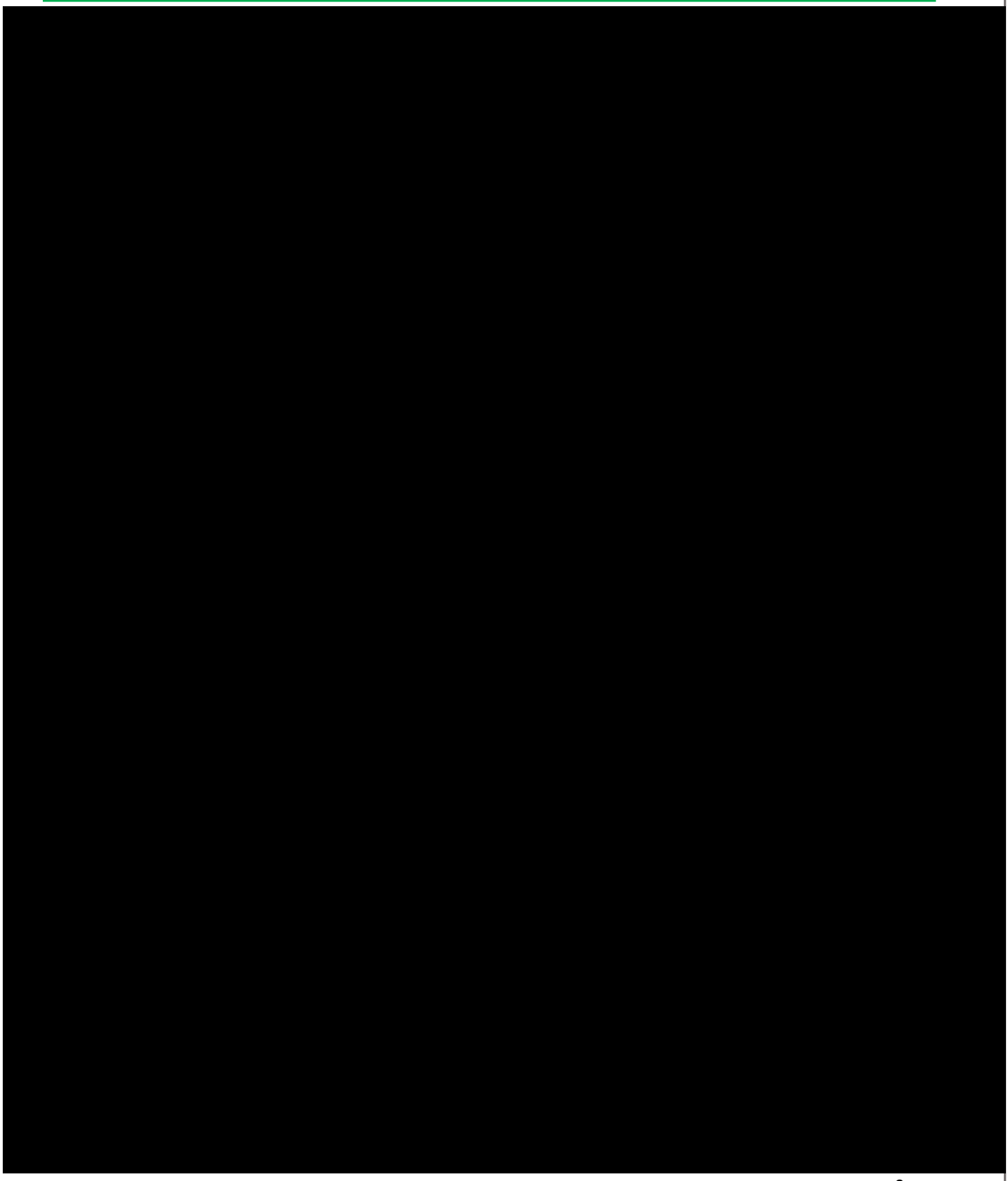
Status:	Draft	Associated Projects:	
SPS #:		Assignment ID:	
AIS Score:		Patrol Find ID:	

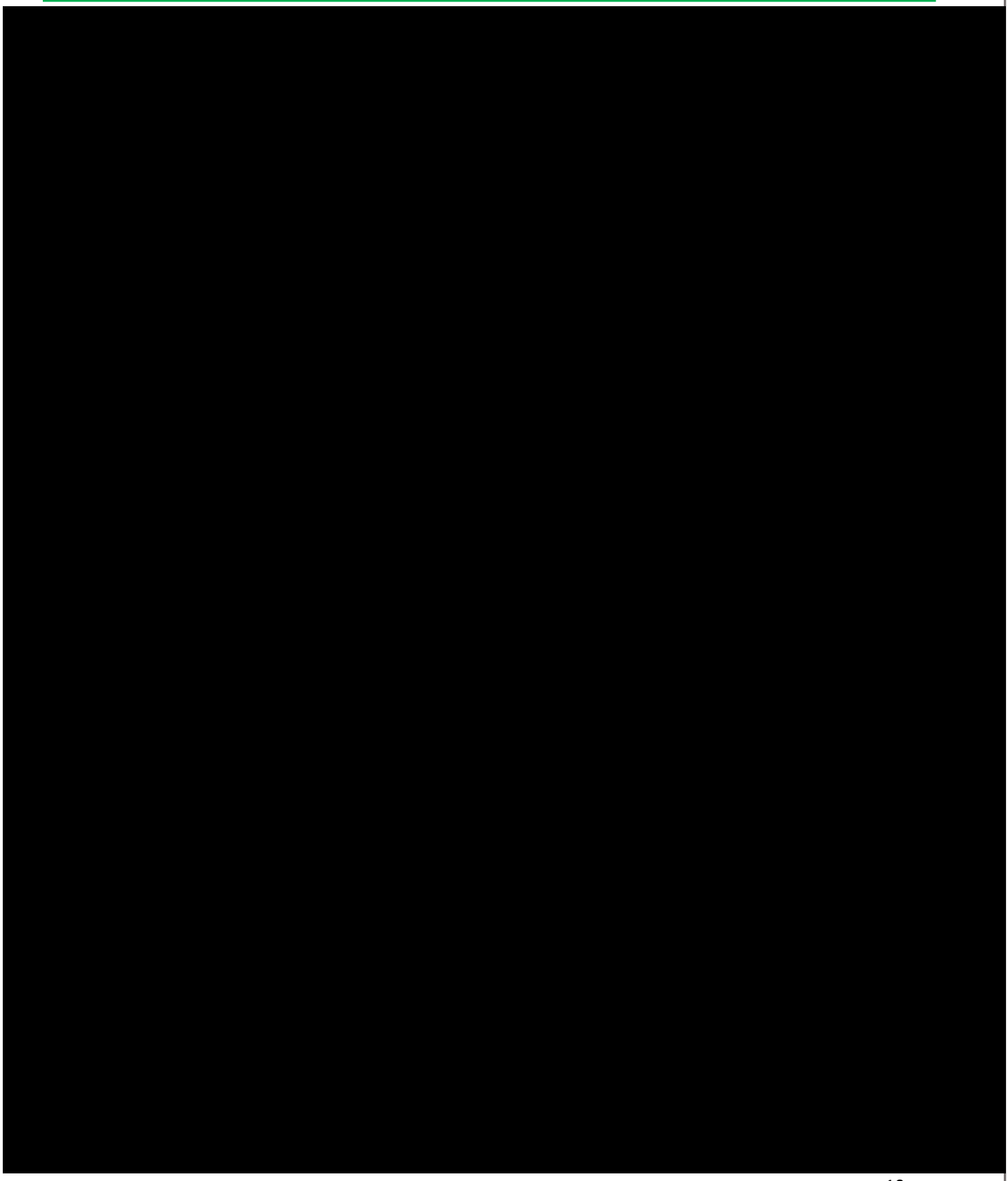
Budget Summary - Preferred Option — Install Reclosers in both Zones

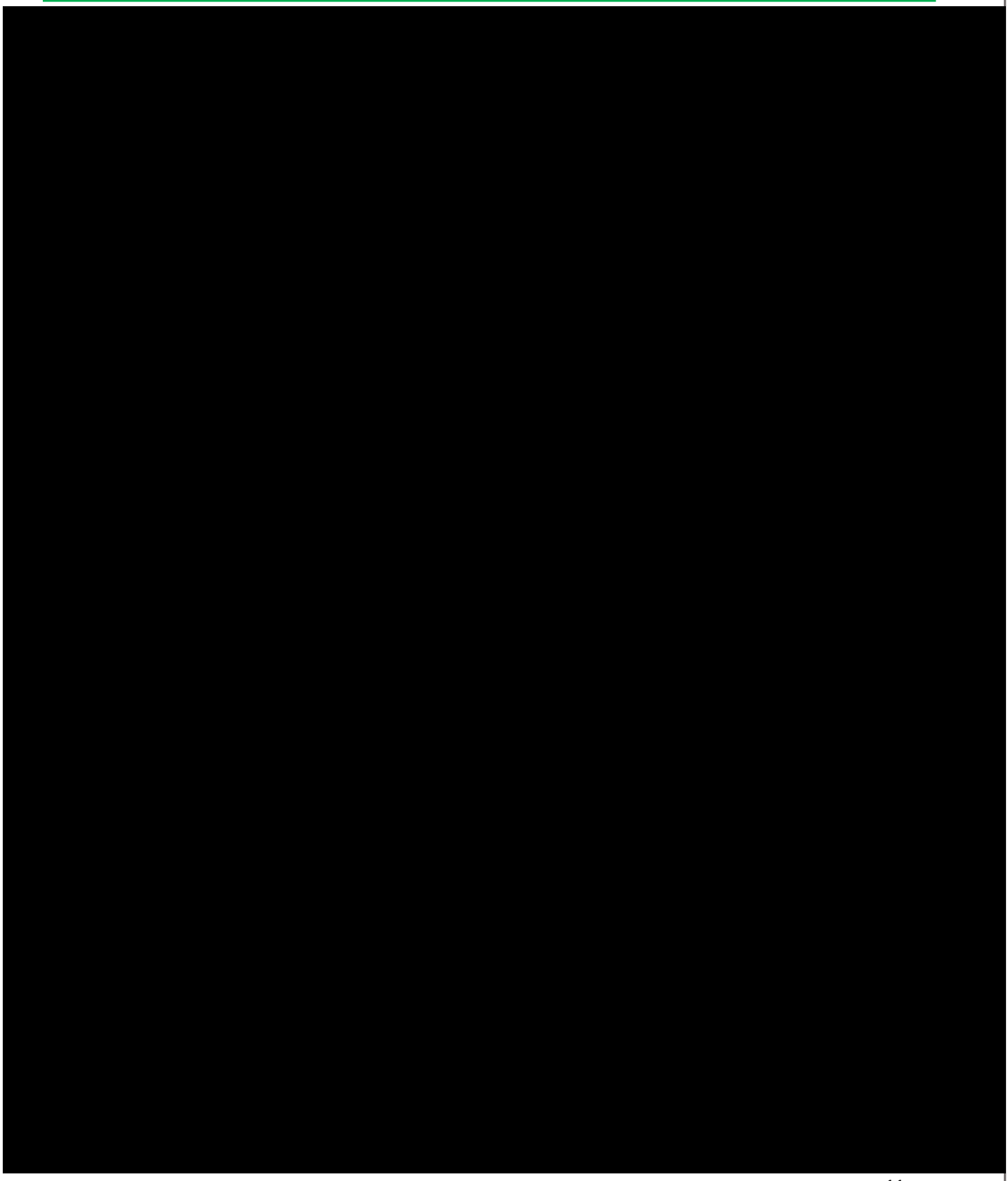
2024

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	[redacted]one 4 SS Project	Draft	0	28%	$91,735	$91,735
2	[redacted]Zone 4 MR Project	Draft	0	28%	$94,435	$94,435
				2024 Total:	$186,170	$186,170
				Total Project:	$186,170	$186,170









[redacted]

[redacted]

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Operations Project Authorization Form

Project Title: [redacted]	**Project Number: CD02024**
Date Prepared: 05/31/2022	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** SMART SWITCHES PROGRAM
Project Manager [redacted]	**Project Type:** Specific
Project Sponsor [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in service date: 12/31/2024	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: $181K	**Authorization Type:** Initial Funding

CTPAC APPROVED 6.30.2022: OPTION 1 – [redacted]

Executive Summary

This project is being established to address the [redacted]

The purpose of project CD02024 [redacted]

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Project Costs Summary

Note: Dollar values are in thousands

Capital Costs	Year 2023	Year 2024	Year 2025+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	$0	$16	$0	$16
Outside Services	$0	$21	$0	$21
Materials	$0	$66	$0	$66
Removals	$0	$4	$0	$4
Risk and Contingency	$0	$1	$0	$1
Other	$0	$0	$0	$0
Subtotal – Direct Costs	$0	$108	$0	$108
Indirect Capital Costs				
Indirect/Overheads (including benefits)	$0	$71	$0	$71
Capitalized interest or AFUDC, if any	$0	$2	$0	$2
Subtotal – Indirect Costs	$0	$74	$0	$74
Total Gross Capital Costs	$0	$181	$0	$181
Customer Contribution	$0	$0	$0	$0
Total Net Capital Project Costs	$0	$181	$0	$181

Technical Justification:

Project Need, Objective and Justification:

[redacted]

Project Scope:

The scope of this project is as follows:

[redacted]

Major Material:

- 2 reclosers
- 2 Disconnect Switches
- 1 Transformer

Background:

[redacted]

Alternatives Considered:

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

Alternatives were considered (please describe below)

[redacted]



Cost	$181K	$89K
Cost / CM Saved	$2.28/CM	$5.32/CM
Preferred option	X	

Regulatory Approvals:

No

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	6/31/2023
Construction Start	10/2024
Testing/Commissioning	12/2024
In Service Date	12/2024

Risks and Risk Mitigation Plans

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.	2023	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.
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.