EVERSOURCE

Project Approval Form

Project Title: New Service [redacted]	**Project Number:** CD02261
Date Prepared: 03/18/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** SPECIFIC PROJECTS-NEW SRVCE
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: 12/31/2024	
Total Capital Request: $602.4K	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of **$602.4K** which is 112% of the partial funding capital estimate of $535K. There is no scope change on the project. The difference between the full funding and partial funding estimate is due to Eversource setting poles and construction being accomplished by AWC dock crews, adding increases in materials and labor expenses. There was no customer contribution on this project for this extension. NB-2 charges will be computed on the new service work order.

The Original Project was presented as follows:

- *The AH Harris building, an old factory, is being converted into a residential building with 154 affordable apartments. The* [redacted]

2. Project Cost Summary

Note: Dollar values are in thousands.

Financial Evaluation ($000's)

Capital Costs	2024	2025	Year 3+	Total
Internal Labor and Construction Equipment	81.0	0.0	0.0	81.0
Outside Services	100.2	0.0	0.0	100.2
Materials	108.4	0.0	0.0	108.4
Removals	14.5	0.0	0.0	14.5
Risk and Contingency	42.0	0.0	0.0	42.0
Other	0.0	0.0	0.0	0.0
Subtotal	**346.1**	**0.0**	**0.0**	**346.1**

Indirect Capital Costs	2024	2025	Year 3+	Total
Indirects/Overheads (including benefits)	256.3	0.0	0.0	256.3
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal	**256.3**	**0.0**	**0.0**	**264.5**

Total Capital Costs (Gross)	**602.4**	**0.0**	**0.0**	**602.4**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**602.4**	**0.0**	**0.0**	**602.4**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted]

b. Project Need

This new service is for a 154 affordable apartment rehab project in New Britain.

[redacted]

c. Project Scope

[redacted]

Major Material:

- 1-recloser
- 1500 ft 3-PH 556 TW
- 13-45ft C2 poles
- 150 ft 1/0 TW
- 3 OH XF's

4. Alternatives Considered

Option 3 (segment 9), [redacted]. Preferred option.

Option 12 (segment 12), [redacted]

Project Option Comparison

	Option	
[redacted]		
Authorization Type	Full	Partial
Capital Cost	$602.4K	$626K
Expense Cost	$24K	$33K
Total Cost	$626.4K	$659K
Preferred option	X	

5. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	7/19/2023
100% Detailed Engineering Completion	8/31/2023
Construction Start	1/1/2024
In Service Date	12/31/2024

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A

8. 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	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.	2024	Medium	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	Medium	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.

9. References

References
1. N/A

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. P6 Schedule	*NO*
C. Geographic Map	*YES*
D. System and Station One-Lines	*YES*
E. Load Summary	*YES*
F. Customer utility plan	*YES*

EVERSOURCE

Project Approval Form

Cost Estimate:

Option 3:

Work Classification

Category: Line
Type: BLG1
Type Desc: OVERLOADS-SPECIFIC PROJECTS
Work Type:

Ownership / Management

AWC: Cheshire
Statewide: No
Owner [redacted]
Manager

Project Information

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

Budget Summary - Preferred Option

Extend [redacted] radially

2024 ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
9	[redacted]	Draft	0	24%	$563,691	$563,691
				2024 Total:	**$563,691**	**$563,691**
				Total Project:	**$563,691**	**$563,691**

Design Alternative CD02261-09

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$454,590
Contingency Amount:	$109,102
Estimate:	$563,691
Reimbursement:	$0
Net Amount:	**$563,691**

Description:

Item Description	CU	Amount
OH WIRE OH - Neutral	23-OH31	$3,328.00
OH WIRE OH - Remove circuit wire (3 phase)	23-OH37A	$3,120.00
XF OH - OH XF - 1ph	23-OH45	$8,227.44
EQUIPMENT OH - Conversion - CUTOVER	23-OH58	$2,087.28
TRAFFIC OH/DB/UG - Traffic Control - Police Officer 15% of precontingency subtotal	23-ALL18	$47,027.00
OTHER OTHER 30% contractor adder	23-ALL14	$94,053.00
POLE OH - POLE - 3ph (Telephone custodian) 50% balance of poles	23-OH12	$27,768.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) collins north of ellis	23-OH25	$4,680.00
OTHER OTHER collins south of ellis create a dead section	23-ALL14	$5,000.00

[redacted]

Project Approval Form

Design Alternative			CD02261-09
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil from ellis @east to [redacted]	23-OH27	[redacted]	$151,320.00
POLE OH - JUNCTION POLE - 3ph (Eversource custodian) jcn poles	23-OH14A		$45,592.56
SECTIONALIZE OH - Recloser - 3ph need radial recloser to sectionalize the additional 201 customers added to the [redacted]	23-OH38		$62,386.48

Option 12:

Design Alternative CD02261-12

Estimate

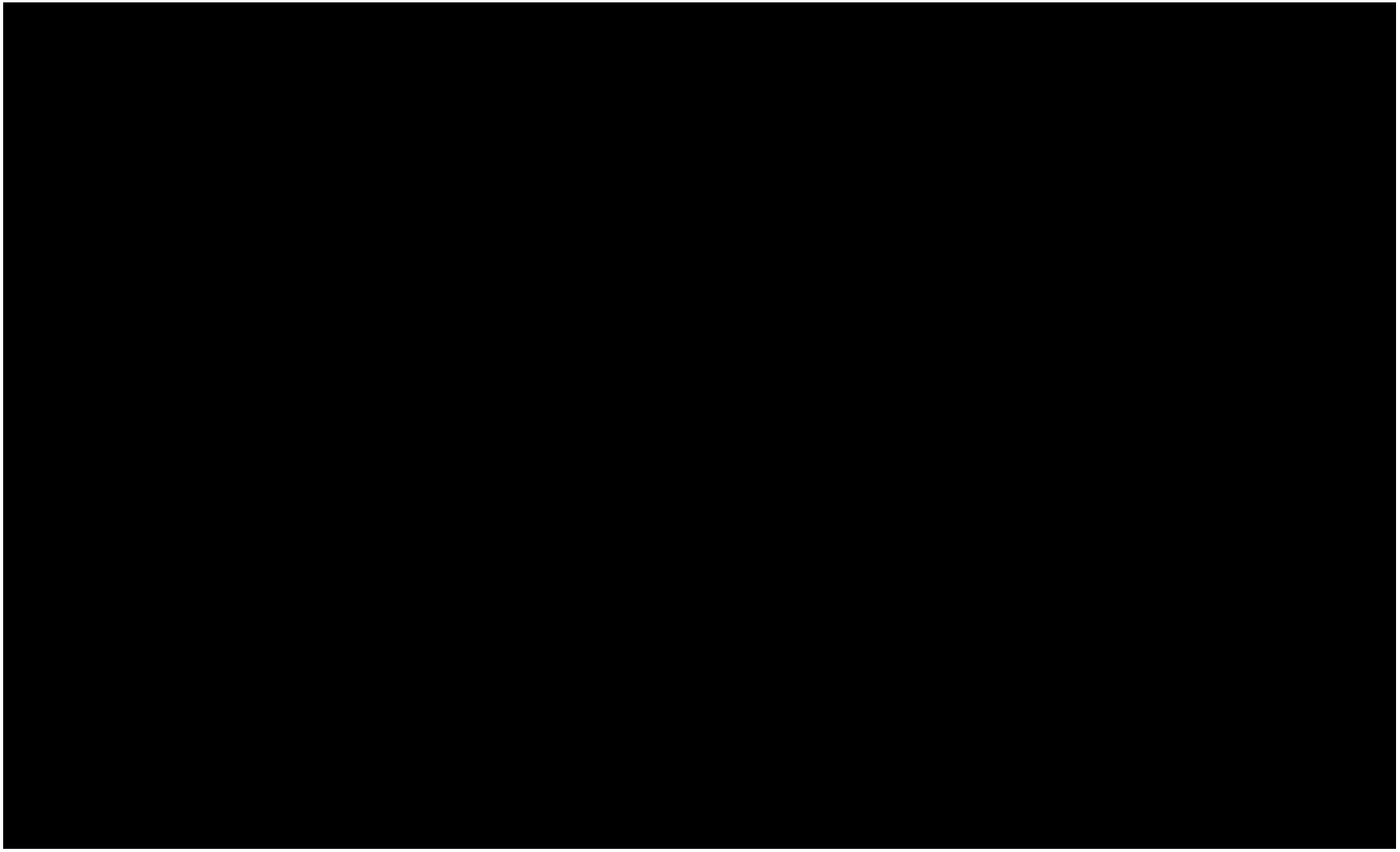
Preliminary Estimate Summary	
Revision Number:	0
Contingency:	24.00%
SubTotal:	$473,008
Contingency Amount:	$113,522
Estimate:	$586,530
Reimbursement:	$0
Net Amount:	**$586,530**
Description:	

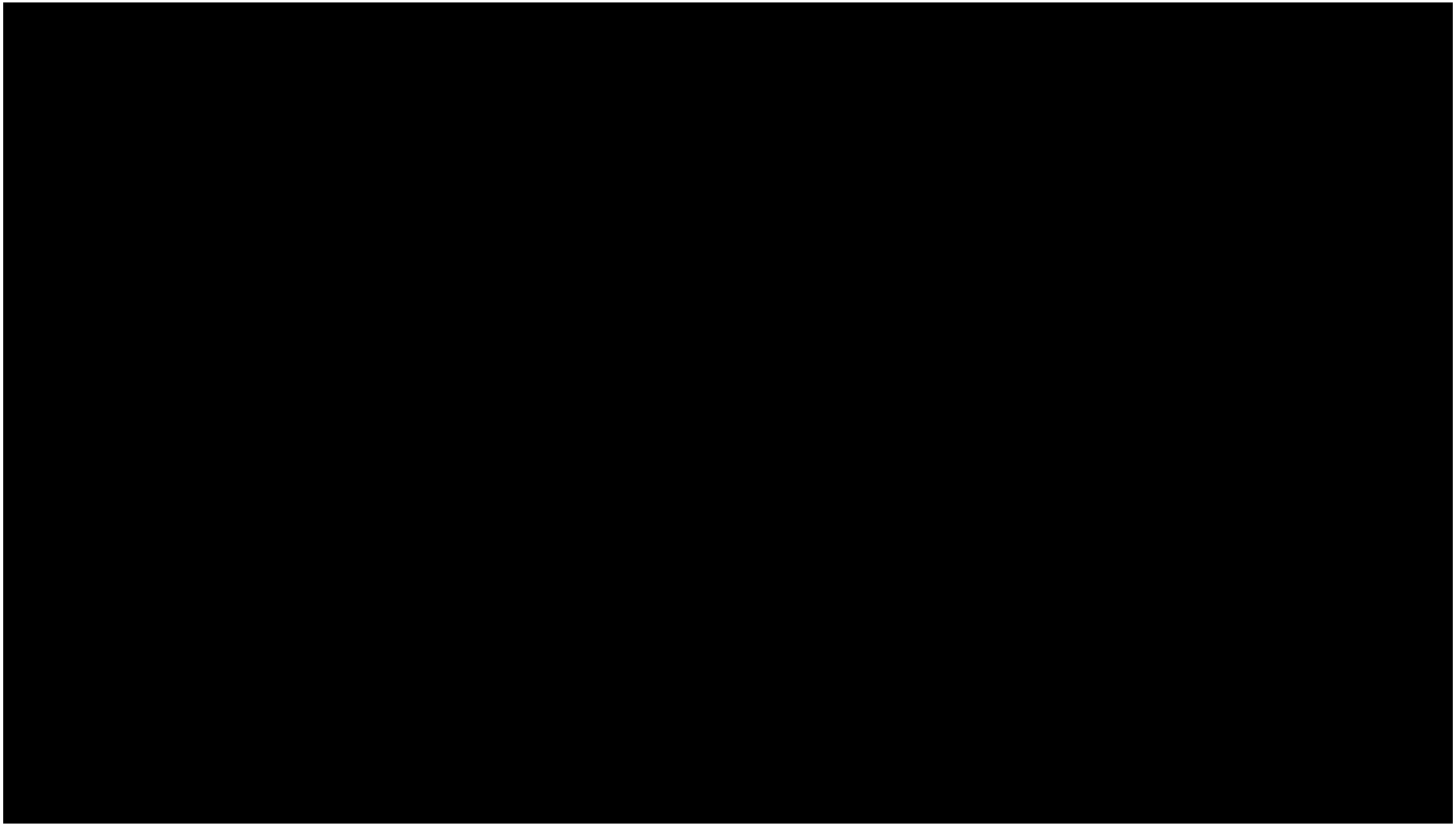
Item Description	CU	Amount
OH WIRE OH - Neutral	23-OH31	$3,328.00
OH WIRE OH - Remove circuit wire (3 phase)	23-OH37A	$3,120.00
XF OH - OH XF - 1ph	23-OH45	$8,227.44
EQUIPMENT OH - Conversion - CUTOVER	23-OH58	$2,087.28
TRAFFIC OH/DB/UG - Traffic Control - Police Officer 15% of precontingency subtotal	23-ALL18	$48,932.00
OTHER OTHER 30% contractor adder	23-ALL14	$97,864.00
POLE OH - POLE - 3ph (Telephone custodian) 50% balance of poles	23-OH12	$27,768.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) collins north of ellis	23-OH25	$4,680.00
OTHER OTHER collins south of ellis create a dead section	23-ALL14	$5,000.00

Design Alternative CD02261-12

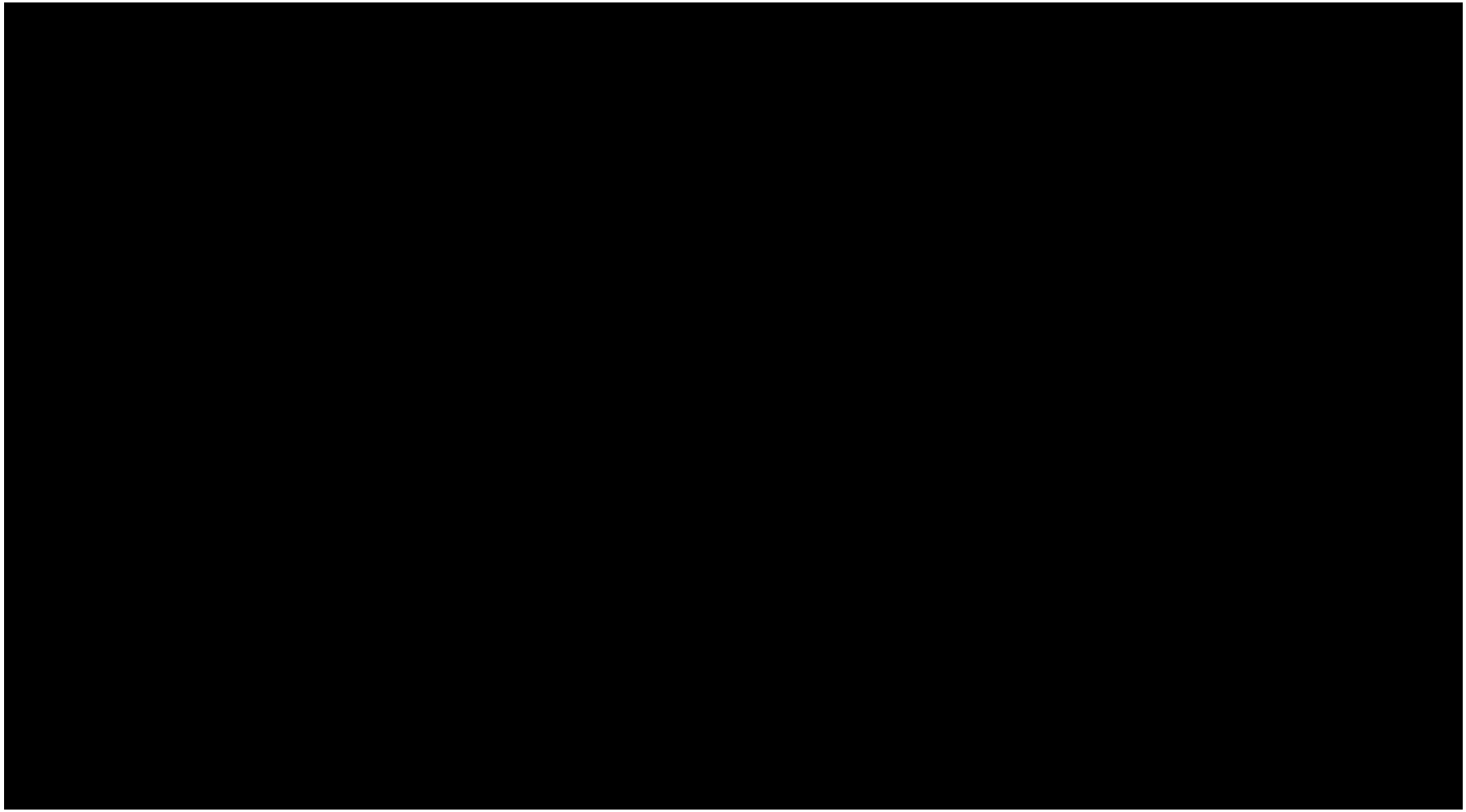
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil from ellis @east to [redacted]	23-OH27	$151,320.00
POLE OH - JUNCTION POLE - 3ph (Eversource custodian) jcn poles	23-OH14A	$45,592.56
SECTIONALIZE OH - Recloser - 3ph need radial recloser to sectionalize the additional 201 customers adde[redacted]e	23-OH38	$62,386.48
SECTIONALIZE OH - Recloser Control - setting changes only re-program 2-reclosers	23-OH39A	$12,702.56





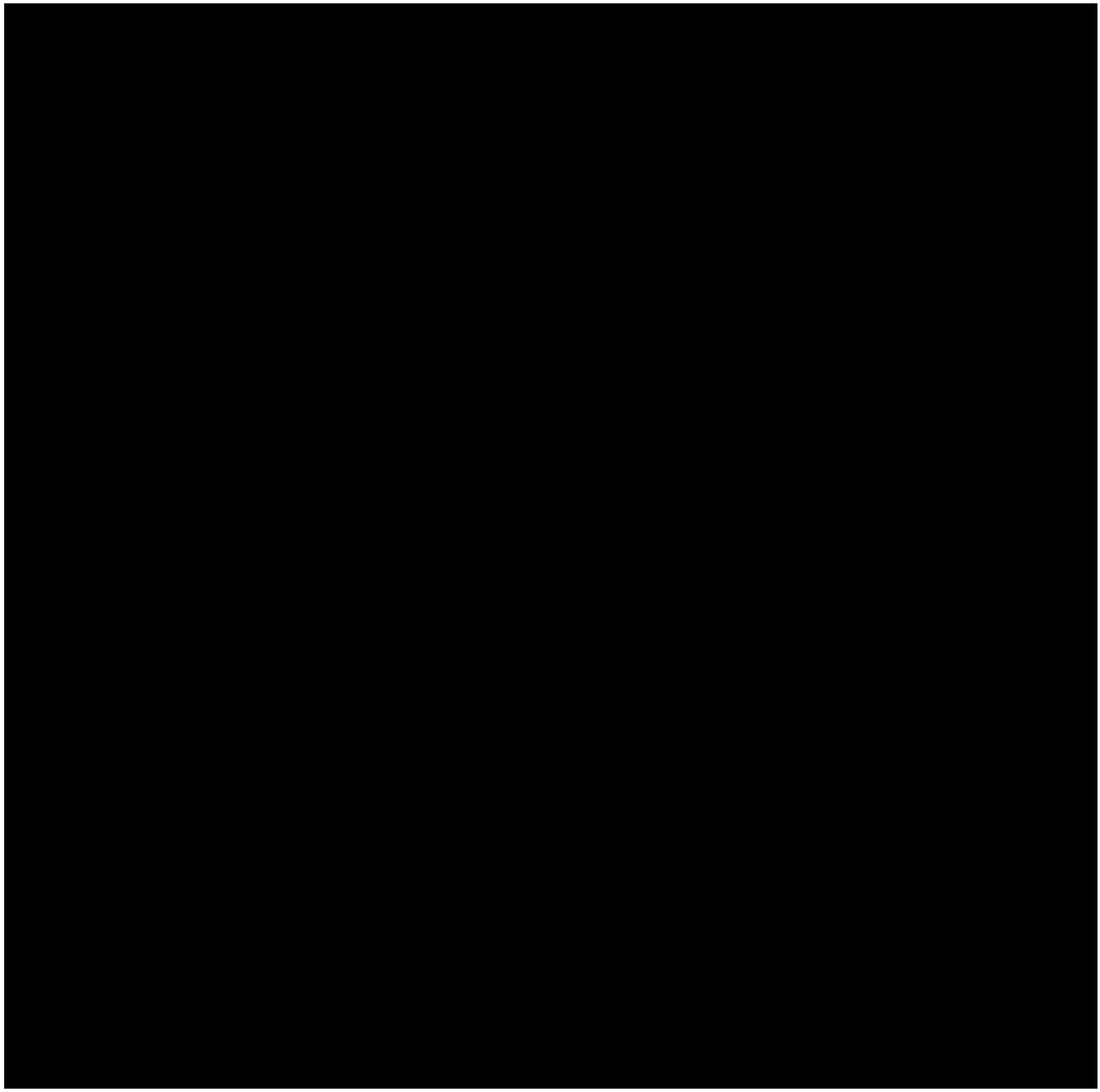


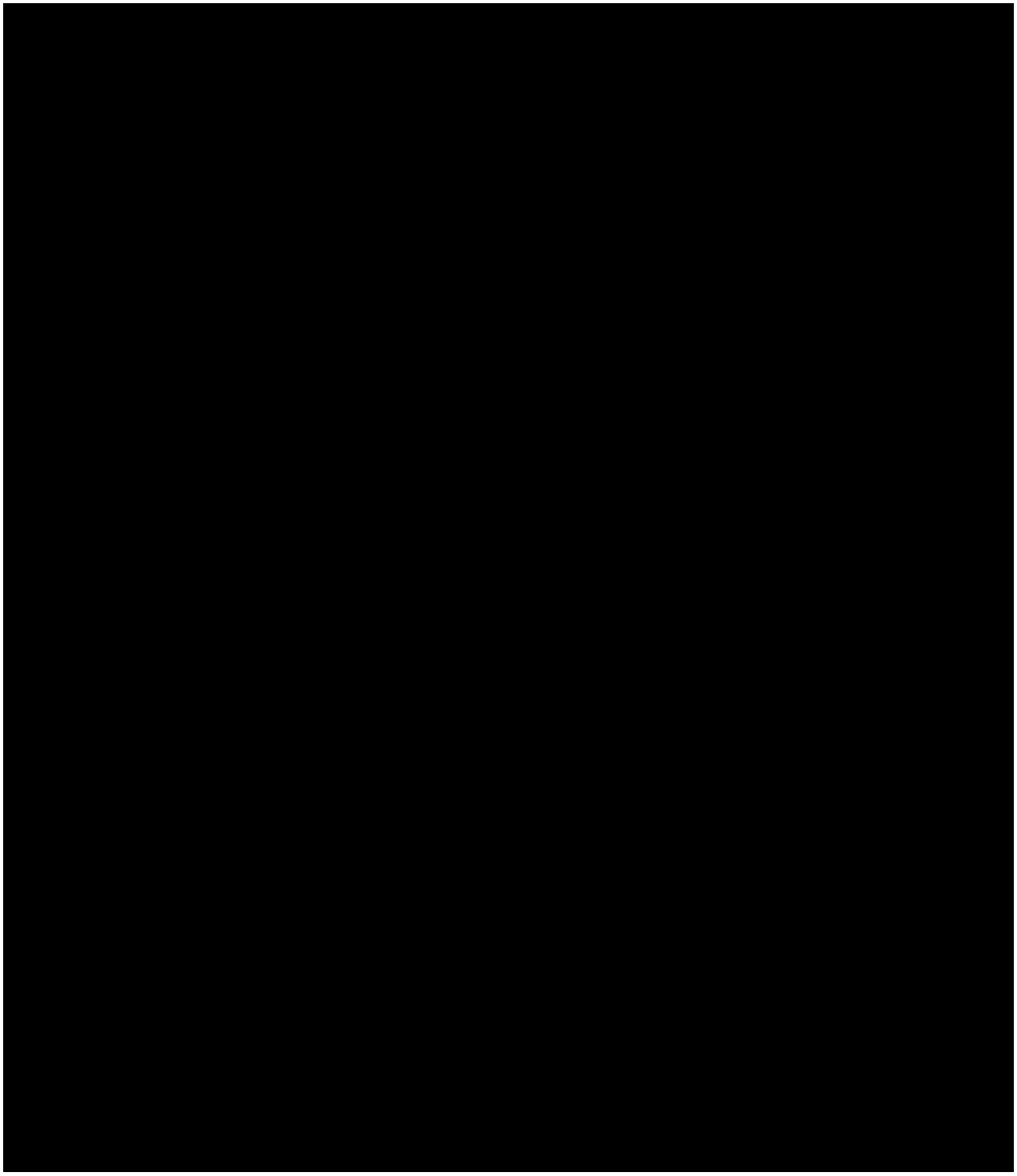




System and Station One-Lines







Project Title: New Service [redacted]	**Project Number:** CD02261
Date Prepared: 09/19/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** SPECIFIC PROJECTS-NEW SRVCE
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: 12/31/2024	
Total Capital Request: $535.4K	**Authorization Type:** Partial Funding

11. Executive Summary

The AH Harris building, an old factory, is being converted into a residential building with 154 affordable apartments. [redacted]

12. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2024	2025	2025+	Total
Internal Labor and Construction Equipment	34.9	0.0	0.0	34.9
Outside Services	100.0	0.0	0.0	100.0
Materials	111.6	0.0	0.0	111.6
Removals	77.0	0.0	0.0	77.0
Other	0.0	0.0	0.0	0.0
Risk and Contingency	0.0	0.0	0.0	0.0
Subtotal	**323.5**	**0.0**	**0.0**	**323.5**

Indirect Capital Costs				Total
Indirects/Overheads (including benefits)	198.8	0.0	0.0	198.8
Capitalized interest or AFUDC, if any	13.2	0.0	0.0	13.2
Subtotal	**211.9**	**0.0**	**0.0**	**211.9**
Total Capital Costs (Gross)	**535.4**	**0.0**	**0.0**	**535.4**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net)	**535.4**	**0.0**	**0.0**	**535.4**

Explain unique payment provisions, if applicable:

13. Technical Justification

a. Background

[redacted]

b. Project Need

New service for a 154 affordable apartment rehab project in New Britain.

[redacted]

c. Project Scope

[redacted]

Major Material:

- 1-recloser
- 1500 ft 3-PH 556 TW
- 13-45ft C2 poles
- 150 ft 1/0 TW
- 3 OH XF's

14. Alternatives Considered

Option 3 (segment 9), [redacted] Preferred option.

Option 12 (segment 12), use [redacted]

Project Option Comparison

	Option	
[redacted]		
Authorization Type	Partial	Partial
Capital Cost	$535K	557K
Expense Cost	$28K	29K
Total Cost	$564K	$587K
Preferred option	X	

15. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	7/19/2023
100% Detailed Engineering Completion	8/31/2023
Fully Funded	12/31/2023
Construction Start	1/1/2024
In Service Date	12/31/2024

16. Regulatory Decisions

17. Codes and Standards

18. 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	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.	2024	Medium	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	Medium	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.

19. References

References
1.
2.
3.
4.
5.

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. P6 Schedule	*NO*
C. Geographic Map	*YES*
D. System and Station One-Lines	*YES*
E. Load Summary	*YES*
F. Customer utility plan	*YES*

Cost Estimate:

Option 3:

Work Classification

Category: Line

Type: BLG1

Type Desc: OVERLOADS-SPECIFIC PROJECTS

Work Type:

Ownership / Management

AWC: Cheshire

Statewide: No

Owner: [redacted]

Manager: [redacted]

Project Information

Status: Draft

Associated Projects:

SPS #:

Assignment ID:

AIS Score:

Patrol Find ID:

Budget Summary - Preferred Option

Extend [redacted] radially

2024 ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
9	[redacted]	Draft	0	24%	$563,691	$563,691
				2024 Total:	**$563,691**	**$563,691**
				Total Project:	**$563,691**	**$563,691**

Project Approval Form

Design Alternative CD02261-09

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$454,590
Contingency Amount:	$109,102
Estimate:	$563,691
Reimbursement:	$0
Net Amount:	**$563,691**

Description:

Item Description	CU	[redacted]	Amount
OH WIRE OH - Neutral	23-OH31		$3,328.00
OH WIRE OH - Remove circuit wire (3 phase)	23-OH37A		$3,120.00
XF OH - OH XF - 1ph	23-OH45		$8,227.44
EQUIPMENT OH - Conversion - CUTOVER	23-OH58		$2,087.28
TRAFFIC OH/DB/UG - Traffic Control - Police Officer 15% of precontingency subtotal	23-ALL18		$47,027.00
OTHER OTHER 30% contractor adder	23-ALL14		$94,053.00
POLE OH - POLE - 3ph (Telephone custodian) 50% balance of poles	23-OH12		$27,768.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) collins north of ellis	23-OH25		$4,680.00
OTHER OTHER collins south of ellis create a dead section	23-ALL14		$5,000.00

Design Alternative			CD02261-09
OH WIRE	23-OH27	[redacted]	$151,320.00
OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil from ellis @east to [redacted]			
POLE	23-OH14A		$45,592.56
OH - JUNCTION POLE - 3ph (Eversource custodian) jcn poles			
SECTIONALIZE	23-OH38		$62,386.48
OH - Recloser - 3ph need radial recloser to sectionalize the additional 201 customers added to the [redacted]			

Option 12:

Design Alternative CD02261-12

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$473,008
Contingency Amount:	$113,522
Estimate:	$586,530
Reimbursement:	$0
Net Amount:	**$586,530**
Description:	

Item Description	CU	Amount
OH WIRE OH - Neutral	23-OH31	$3,328.00
OH WIRE OH - Remove circuit wire (3 phase)	23-OH37A	$3,120.00
XF OH - OH XF - 1ph	23-OH45	$8,227.44
EQUIPMENT OH - Conversion - CUTOVER	23-OH58	$2,087.28
TRAFFIC OH/DB/UG - Traffic Control - Police Officer 15% of precontingency subtotal	23-ALL18	$48,932.00
OTHER OTHER 30% contractor adder	23-ALL14	$97,864.00
POLE OH - POLE - 3ph (Telephone custodian) 50% balance of poles	23-OH12	$27,768.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) collins north of ellis	23-OH25	$4,680.00
OTHER OTHER collins south of ellis create a dead section	23-ALL14	$5,000.00

Project Approval Form

Design Alternative			CD02261-12
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil from ellis @east to 321 ellis	23-OH27	[redacted]	$151,320.00
POLE OH - JUNCTION POLE - 3ph (Eversource custodian) jcn poles	23-OH14A		$45,592.56
SECTIONALIZE OH - Recloser - 3ph need radial recloser to sectionalize the additional 201 customers add	23-OH38		$62,386.48
SECTIONALIZE OH - Recloser Control - setting changes only re-program 2-reclosers	23-OH39A		$12,702.56

Geographic Map:



Project Approval Form



Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.1

Project Approval Form



Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.1

Project Approval Form



Project Approval Form

[redacted]

Project Approval Form



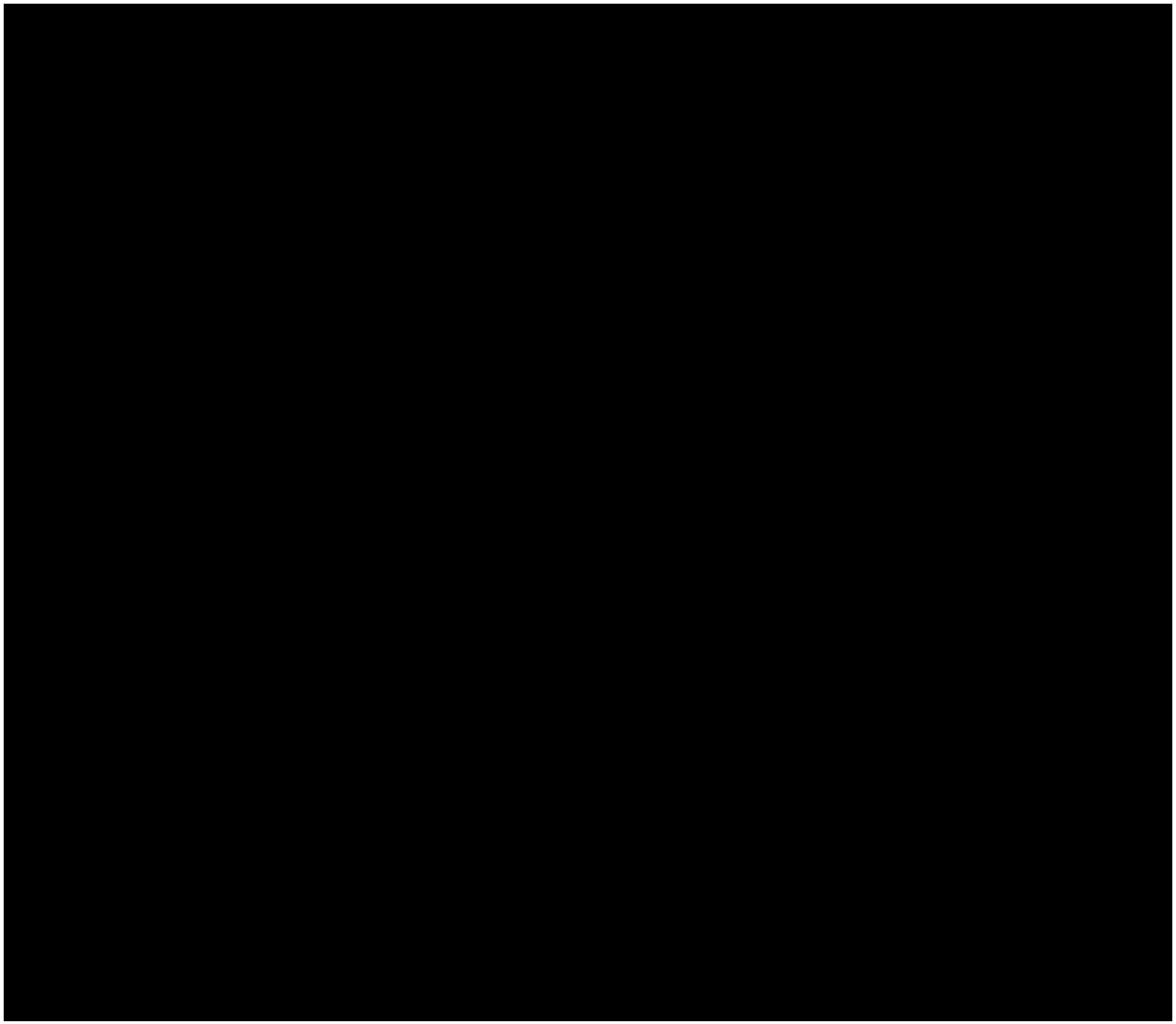
Load Summary:

[redacted]

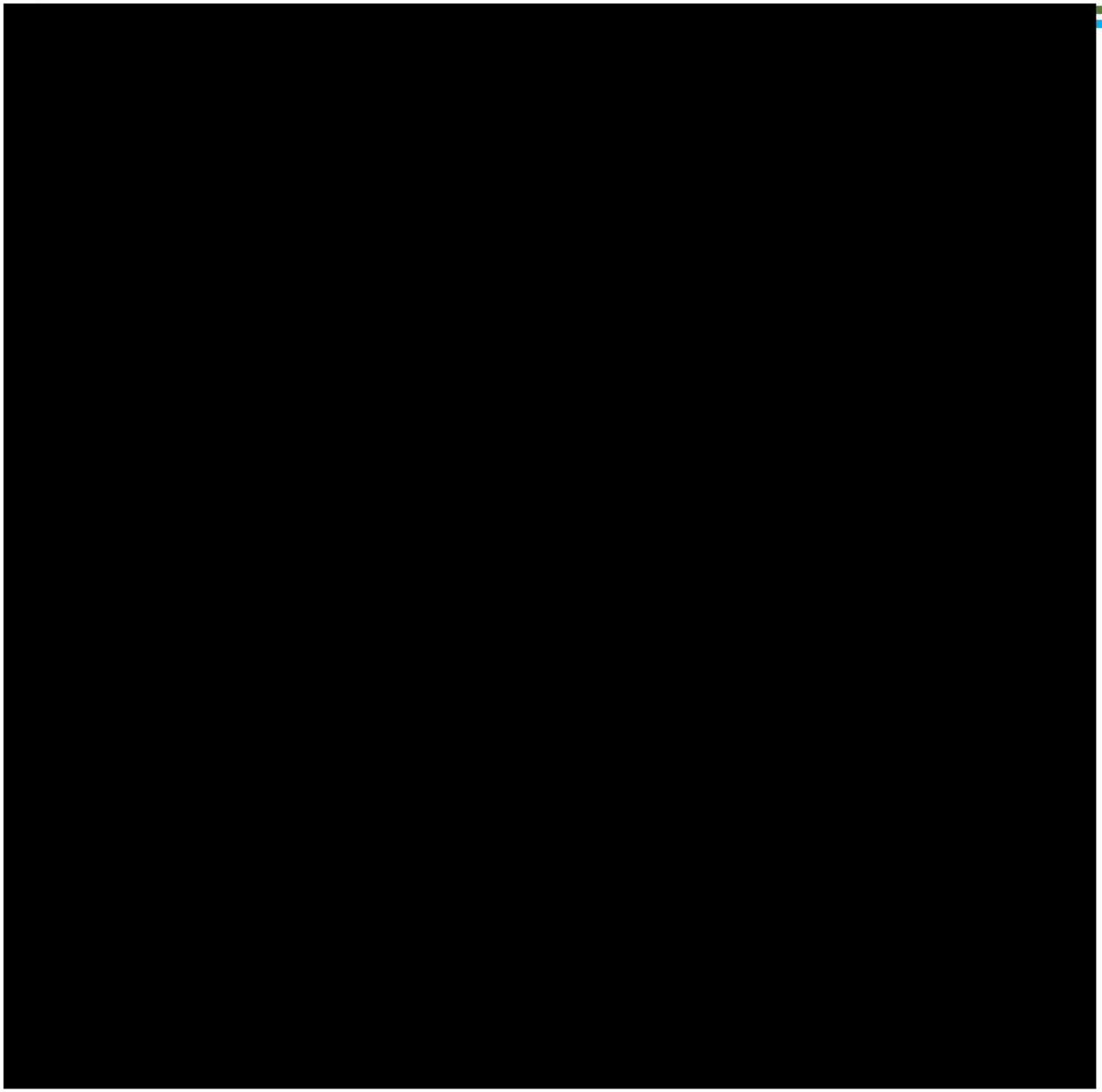
Project Approval Form



Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.1

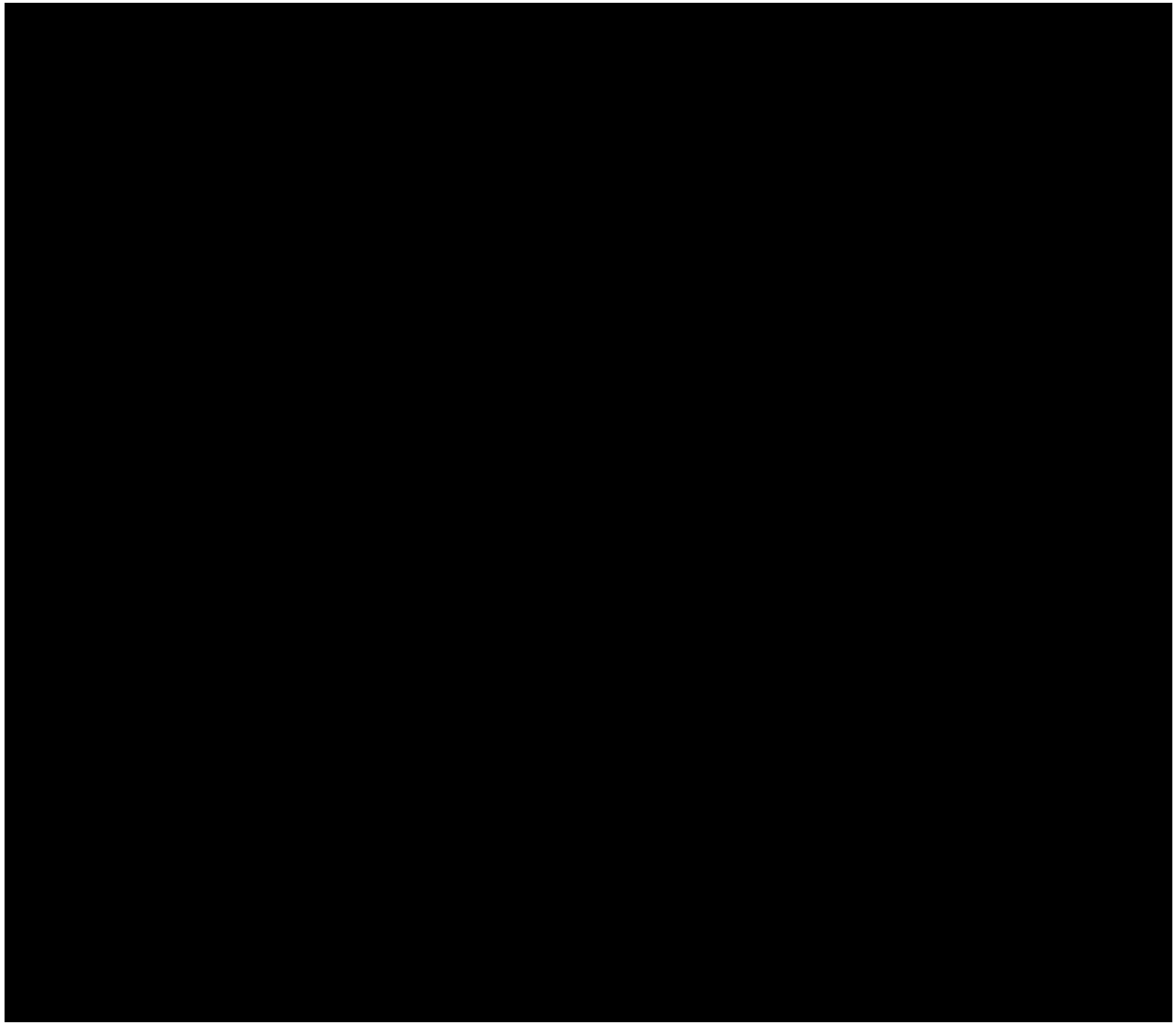


Project Approval Form



Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.1

Project Approval Form



Project Approval Form



Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.1

Customer Utility Plan:

