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Project Approval Form

Project Title [redacted]	**Project Number: CD01687**
Date Prepared: 10/04/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** RIGHT OF WAY LINES
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: 12/31/2025	
Total Capital Request: $15,258K	**Authorization Type:** Full Funding

1. Executive Summary

[redacted]

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2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2023	Year 2024	Year 2025_+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	5.7	368.7	256.3	630.7
Outside Services	809.0	1,857.0	2,509.9	5,175.9
Materials	518.6	638.1	633.9	1,790.6
Removals	164.8	406.0	481.2	1,052.0
Risk and Contingency	0.0	421.2	493.2	914.4
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**1,498.1**	**3,691.0**	**4,374.5**	**9,563.6**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	634.8	2,345.5	2,695.3	5,675.6
Capitalized interest or AFUDC, if any	19.4	0.0	0.0	19.4
Subtotal – Indirect Costs	**654.2**	**2,345.5**	**2,695.3**	**5,694.9**
Total Gross Capital Costs	**2,152.3**	**6,036.5**	**7,069.8**	**15,258.6**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**2,152.3**	**6,036.5**	**7,069.8**	**15,258.6**

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3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted]

3

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b. Project Need

[redacted]

c. Project Scope

[redacted]

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

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4. Alternatives Considered

[redacted]

Project Option Comparison

[redacted]

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[redacted]

5. Project Schedule

Add any additional milestones that are pertinent to the project.

Milestone/Phase Name	Estimated Completion Date
Partial Funding Approval	May 25, 2023
Detailed Design, Segment 01, 02, 05 & 06	Completed
Detailed Design, Segments 04	June 2024
Full Funding Approval	October 12, 2023
Construction End Date, Segment 01	Completed
Construction End Date, Segments 02, 03, 05 & 06	December 31, 2024
Construction End Date, Segment 04	December 31, 2025

6. Regulatory Decisions

- None

7. Codes and Standards

- None

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8. Risk and Contingencies

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2023-25	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	2022-24	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2023-25	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.	2022-24	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2023-25	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2023-25	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

- None

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

Attachment	Included in Submittal?
A. Cost Estimate	*N/A*
B. Geographic Map	*YES*
C. System and Station One-Lines	*YES*
D. Load Summary	*YES*
E. Partial Funding PAF	*YES*
F. Initial Funding PAF	*YES*

Attachment A – Cost Estimate

- N/A

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Attachment B – Maps

[redacted]

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[redacted]

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[redacted]

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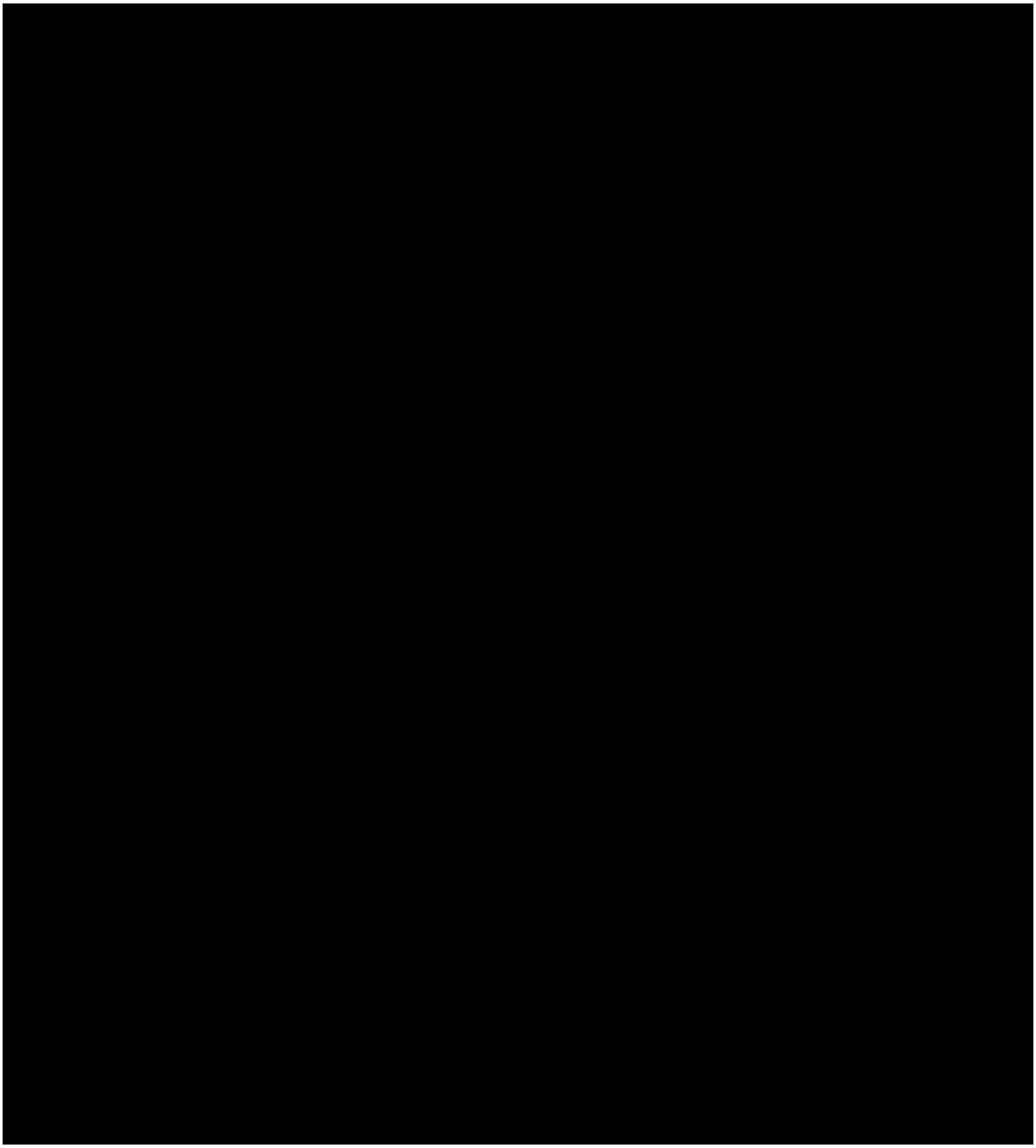
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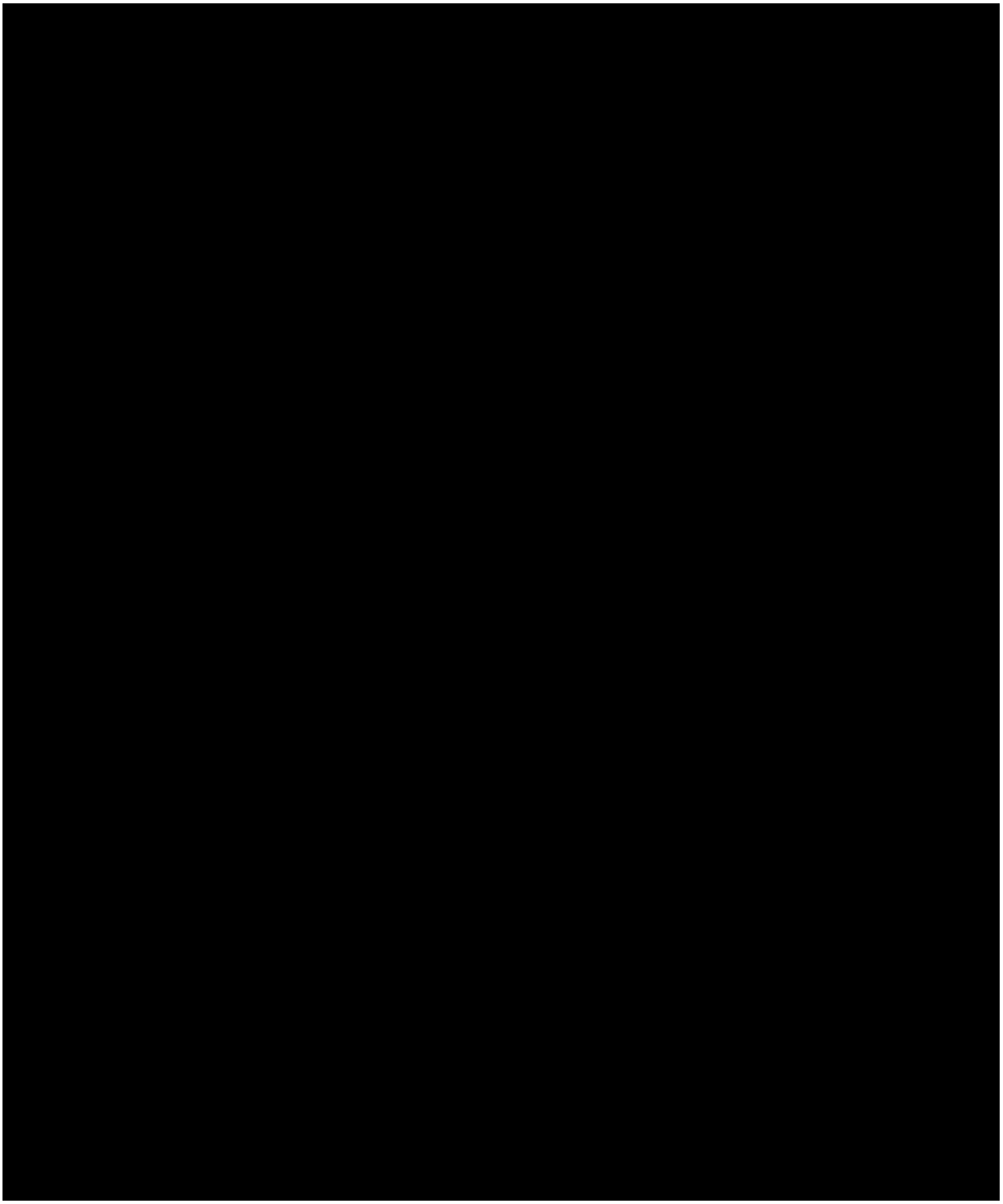
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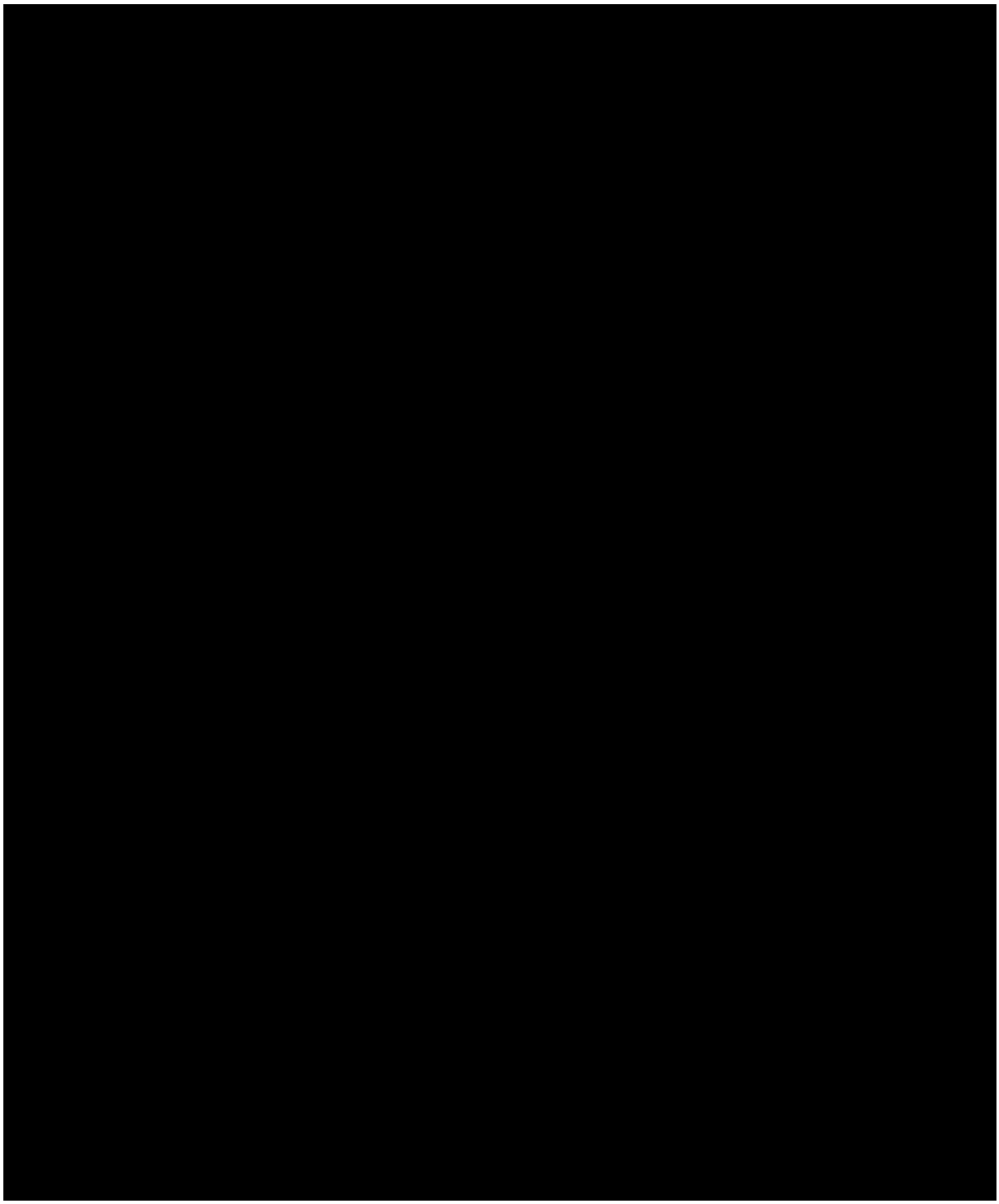
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[redacted]

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Attachment C – One-Lines



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Attachment D – Load Summary

Project Load Summary

Project Number: CD01687

Project Name: [redacted]

Before

[redacted]

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Project Load Summary

Project Number: CDO1687

Project Name: [redacted]

Option 1

[redacted]

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Attachment E – Partial Funding PAF

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Project Approval Form

Project Title: [redacted]	Project Number: CD01687
Date Prepared: 08/25/2023	Company: Eversource CT
Organization: Distribution Engineering	Project Category: RIGHT OF WAY LINES
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: 12/31/2025	
Total Capital Request: $11,866.8K	Authorization Type: Partial Funding

1. Executive Summary

[redacted]

1

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

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Project Approval Form

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Project Approval Form

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2023	Year 2024	Year 2025_+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	121.0	201.2	183.9	506.1
Outside Services	997.7	1,658.8	1,515.7	4,172.2
Materials	398.1	661.9	604.8	1,664.8
Removals	359.8	598.2	546.6	1,504.6
Risk and Contingency	8.1	13.4	12.3	33.8
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	1,884.7	3,133.5	2,863.3	7,881.5
Indirect Capital Costs				
Indirect/Overheads (including benefits)	907.8	1,509.4	1,379.2	3,796.5
Capitalized interest or AFUDC, if any	45.2	75.1	68.6	188.8
Subtotal – Indirect Costs	953.0	1,584.5	1,447.8	3,985.3
Total Gross Capital Costs	2,837.7	4,718.0	4,311.1	11,866.8
Customer Contribution	$0	$0	$0	$0
Total Net Capital Project Costs	2,837.7	4,718.0	4,311.1	11,866.8

2

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

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3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted]

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

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b. Project Need

[redacted]

c. Project Scope

[redacted]

4

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

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4. Alternatives Considered

[redacted]

5

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

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[redacted]

5. Project Schedule

Add any additional milestones that are pertinent to the project.

Milestone/Phase Name	Estimated Completion Date
Partial Funding Approval	May 2023
Detailed Design, Segment 01	Completed
Detailed Design, Segments 02, 03, 05 & 06	September 2023
Construction End Date, Segment 01	December 2023
Detail Design, Segment 04	June 2024
Construction End Date, Segments 02, 03, 05 & 06	December 2024
Construction End Date, Segment 04	December 2025

6. Regulatory Decisions

- None

7. Codes and Standards

- None

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8. Risk and Contingencies

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2023-25	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	2022-24	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2023-25	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.	2022-24	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2023-25	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2023-25	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

- None

7

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

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Project Approval Form

Attachment F – Initial Funding PAF

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Operations Project Authorization Form

Project Title: [redacted]	**Project Number: CD01687**
Date Prepared: 03/08/2023	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** Lines - ROW
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: $6,605K	**Authorization Type:** Initial Funding

Executive Summary

[redacted]

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Project Approval Form

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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	$68	$134	$0	$202
Outside Services	$946	$1,876	$0	$2,822
Materials	$198	$392	$0	$590
Removals	$237	$469	$0	$706
Risk and Contingency	($2)	($4)	$0	($6)
Other	$0	$0	$0	$0
Subtotal – Direct Costs	**$1,446**	**$2,868**	**$0**	**$4,314**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	$740	$1,469	$0	$2,209
Capitalized interest or AFUDC, if any	$28	$55	$0	$82
Subtotal – Indirect Costs	**$768**	**$1,524**	**$0**	**$2,292**
Total Gross Capital Costs	**$2,214**	**$4,391**	**$0**	**$6,605**
Customer Contribution	**$0**	**$0**	**$0**	**$0**
Total Net Capital Project Costs	**$2,214**	**$4,391**	**$0**	**$6,605**

Technical Justification:

Project Need, Objective and Justification:

[redacted]

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Project Scope:

[redacted]

Major Material:

[redacted]

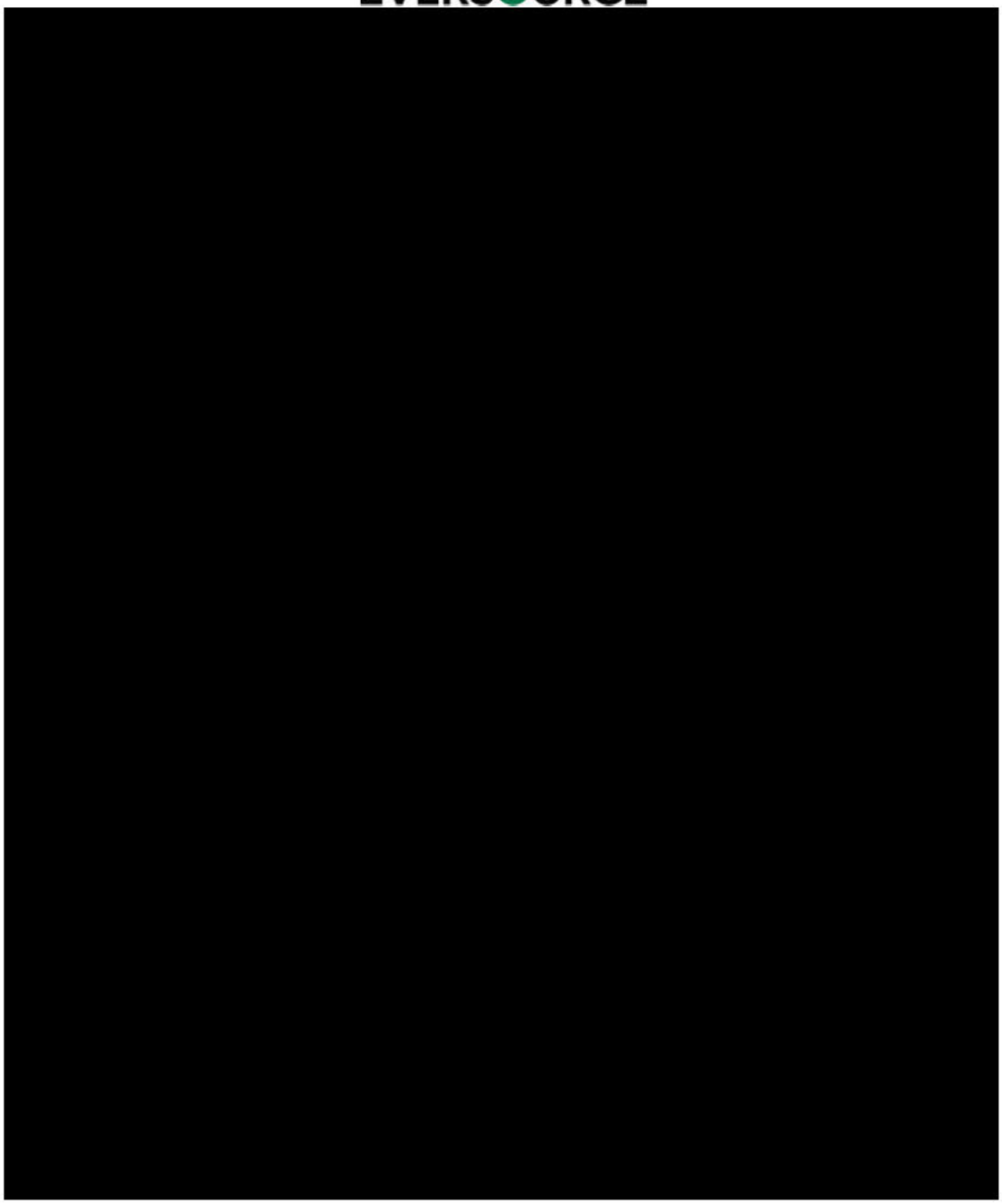
Background:

[redacted]

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

[redacted]

Regulatory Approvals:
Are Regulatory body approvals needed for the project?
No

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Project Schedule

Milestone/Phase Name	Estimated Completion Date
Revised Preliminary Approval	March 2023
Detailed Design, Segment 01	Completed
Detailed Design, Remainder of project	June 2023
Construction Start Date	March 2023
Construction End Date, Segment 01	December 2023
Construction End Date, Remainder of project	December 2024

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2023-24	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	2022-23	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2023-24	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.	2022-23	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2023-24	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2023-24	Low	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

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References

None

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Project Approval Form

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01687 [redacted]

Work Classification

Category: Line
Type: SRRL
Type Desc: RIGHT OF WAY LINES
Work Type:

Ownership / Management

AWC: [redacted]
Statewide: No
Owner: [redacted]
Manager: [redacted]

Project Information

Status: Prelim Design Approved
SPS #:
AIS Score:
Associated Projects:
Assignment ID:
Patrol Find ID:

Budget Summary - Preferred Option

Proposed Scope

2023

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
[redacted]		Prelim	1	24%	$2,959,477	$2,959,477
				2023 Total:	$2,959,477	$2,959,477

2024

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
[redacted]		Prelim	1	28%	$1,732,566	$1,732,566
		Prelim	1	28%	$2,041,581	$2,041,581
		Prelim	1	28%	$835,016	$835,016
		Prelim	1	28%	$311,386	$311,386
				2024 Total:	$4,920,549	$4,920,549

2025

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
[redacted]		Prelim	1	32%	$4,496,227	$4,496,227
				2025 Total:	$4,496,227	$4,496,227
				Total Project:	$12,376,253	$12,376,253

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Project Approval Form

Design Alternative CD01687-01

Estimate

Preliminary Estimate Summary

Revision Number:	1
Contingency:	24.00%
SubTotal:	$2,386,675
Contingency Amount:	$572,802
Estimate:	$2,959,477
Reimbursement:	$0
Net Amount:	$2,959,477

Description: Preliminary; need to check [redacted]

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-02

Estimate

	Preliminary Estimate Summary
Revision Number:	1
Contingency:	28.00%
SubTotal:	$1,353,567
Contingency Amount:	$378,999
Estimate:	$1,732,566
Reimbursement:	$0
Net Amount:	$1,732,566
Description:	Revised estimate, dated 3/2/2023 due to change in scope.

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-02

[redacted]

Design Alternative CD01687-03

Estimate

	Preliminary Estimate Summary
Revision Number:	1
Contingency:	28.00%
SubTotal:	$1,594,985
Contingency Amount:	$446,596
Estimate:	$2,041,581
Reimbursement:	$0
Net Amount:	$2,041,581
Description:	

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-04

Estimate

	Preliminary Estimate Summary
Revision Number:	1
Contingency:	32.00%
SubTotal:	$3,406,233
Contingency Amount:	$1,089,994
Estimate:	$4,496,227
Reimbursement:	$0
Net Amount:	$4,496,227
Description:	

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-05

Estimate

	Preliminary Estimate Summary
Revision Number:	1
Contingency:	28.00%
SubTotal:	$652,356
Contingency Amount:	$182,660
Estimate:	$835,016
Reimbursement:	$0
Net Amount:	$835,016
Description:	

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-05

[redacted]

Design Alternative CD01687-06

Estimate

	Preliminary Estimate Summary
Revision Number:	1
Contingency:	28.00%
SubTotal:	$243,270
Contingency Amount:	$68,116
Estimate:	$311,386
Reimbursement:	$0
Net Amount:	$311,386
Description:	

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-07

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$2,339,918
Contingency Amount:	$561,580
Estimate:	$2,901,499
Reimbursement:	$0
Net Amount:	$2,901,499
Description:	

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-08

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$8,208,756
Contingency Amount:	$1,970,101
Estimate:	$10,178,857
Reimbursement:	$0
Net Amount:	$10,178,857
Description:	

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-08

[redacted]

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Project Approval Form

Design Alternative CD01687-09

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$22,049,421
Contingency Amount:	$6,173,838
Estimate:	$28,223,259
Reimbursement:	$0
Net Amount:	$28,223,259
Description:	

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CP01687-09

[redacted]

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Project Approval Form

Design Alternative CD01687-10

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$66,581,632
Contingency Amount:	$18,642,857
Estimate:	$85,224,489
Reimbursement:	$0
Net Amount:	$85,224,489

Description:

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-10

[redacted]

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Project Approval Form

Design Alternative CD01687-11

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$1,469,976
Contingency Amount:	$411,593
Estimate:	$1,881,569
Reimbursement:	$0
Net Amount:	$1,881,569

Description:

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-12

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$2,077,388
Contingency Amount:	$498,573
Estimate:	$2,575,962
Reimbursement:	$0
Net Amount:	$2,575,962
Description:	

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-13

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$1,095,643
Contingency Amount:	$306,780
Estimate:	$1,402,423
Reimbursement:	$0
Net Amount:	$1,402,423
Description:	

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative

CD01687-13

[redacted]

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Project Approval Form

Design Alternative CD01687-14

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$326,570
Contingency Amount:	$91,439
Estimate:	$418,009
Reimbursement:	$0
Net Amount:	$418,009
Description:	Original estimate for Initial Funding Authorization

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-15

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$700,775
Contingency Amount:	$196,217
Estimate:	$896,992
Reimbursement:	$0
Net Amount:	$896,992
Description:	Alternative to segment 05

Item Description	CU	$ / Per	Qty	Amount

[redacted]

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Project Approval Form

Design Alternative CD01687-15

[redacted]

Design Alternative CD01687-16

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	28.00%
SubTotal:	$121,499
Contingency Amount:	$34,020
Estimate:	$155,519
Reimbursement:	$0
Net Amount:	$155,519
Description:	

Item Description CU $ / Per Qty Amount

[redacted]