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Project Approval Form

Project Title: [redacted]	**Project Number: CD01964**
Date Prepared: 12/13/2023	**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: 12/31/24	
Total Capital Request: $728.7K (Reimbursement $211.7K)	**Authorization Type:** Full Funding

• Executive Summary

[redacted] Eversource will supply this new load with our existing infrastructure currently supplying [redacted] Two existing manholes and corresponding ductbanks with feeder cables are in the way of the footprint of the hotel and will need to be removed and relocated. [redacted] contractor will provide this material and perform the relocation. [redacted] The project will require a customer contribution based on Eversource's New Business policies.

12/13/23 – Full Funding. Partial Funding in the amount of $639K was approved on 3/17/22. Full Funding is $729.7K, of which $211.7K is reimbursable. Full Funding is 14% over the Partial Funding estimate. There is no change of scope. The current approved estimate was prepared using legacy unit costs, which are approximately 30% lower than the estimates used today to account for an increase in material and labor costs. All 2023 work has been completed; the remainder of the work, which is to install 6 padmount transformers, run cable for the new service, and perform all splicing in manholes as required, is expected to be done by 12/31/24.

• Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2023	Year 2024	Total
Direct Capital Costs			
Internal Labor and Construction Equipment	129.9	28.1	158.0
Outside Services	17.4	3.8	21.2
Materials	102.1	22.1	124.2
Removals	54.4	22.8	77.2
Risk and Contingency	0.0	50.8	50.8
Other	0.0	0.0	0.0
Subtotal – Direct Costs	**303.8**	**127.6**	**431.5**
Indirect Capital Costs			
Indirect/Overheads (including benefits)	217.0	73.4	290.4
Capitalized interest or AFUDC, if any	6.9	0.0	6.9
Subtotal – Indirect Costs	**223.9**	**73.4**	**297.3**
Total Gross Capital Costs	**527.7**	**201.0**	**728.7**
Customer Contribution	**-211.7**	**0.0**	**-211.7**
Total Net Capital Project Costs	**316.0**	**201.0**	**517.0**

• Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted] and needs Eversource to supply this new load. Two manholes and corresponding ductbanks with feeder cables need to be relocated because they are in the way of the new hotel. There will be three load centers as follows:

[redacted]

The total load will be [redacted] and needs reliable service to operate. This circuit design will provide the reliable service required.

b. Project Need

This project is for a new service for a new hotel/indoor water park at Foxwoods Resort and Casino. [redacted] The contractor for Great Wolf resorts will perform this removal and will install two new manholes and ductbanks, scheduled to be completed December 2023.

c. Project Scope

Phase 1, scheduled to be completed by December 2023:

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

Phase 2, scheduled to be completed by December 2024:

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

Major Material

500 kcmil Cu cable – 1,700 feet

4/0 kcmil AL cable – 2,200 feet

2000 kVA padmount transformers – 6

• Alternatives Considered

Project Option Comparison

Design Criteria	Option	
	1 – Supply New Service	2 – N/A
Authorization Type	Full	
Capital Cost	$728.7K	
Expense Cost	$38.5K	
Total Cost	$767.2K	
Customer Reimbursement	$211.7K	
Total Net Capital	$517K	
Preferred option	X	

• Project Schedule

Add any additional milestones that are pertinent to the project.

Milestone/Phase Name	Estimated Date
Partial Approval	3/17/22
100% Detailed Engineering Completion	10/1/22
Fully Funded	12/13/23
Construction Start – Phase 1	3/1/23
Construction Start – Phase 2	3/1/24
In Service Date	12/31/24

- Regulatory Decisions

- Codes and Standards

- Risk and Contingencies

Contingencies:

Risk Mitigation:

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	2023/24	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2023/24	Low	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.	2023/24	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2023/24	Medium	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2023/24	Medium	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2023/24	High	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	2023/24	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	2023/24	Low	Use of mats and specialty equipment, only work during certain times of the year.

• References

References
1.
2.
3.

4.
5.

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Construction Map	*YES*
C. System One-Line	*YES*
D. Load Sheet	*YES*
E.	

Attachment A – Cost Estimate – Removals

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01964 [redacted]

Design Alternative CD01964-01

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	24.00%
SubTotal:	$257,680
Contingency Amount:	$61,843
Estimate:	$319,523
Reimbursement:	$0
Net Amount:	**$319,523**

Description: Remove existing cable, install new cable

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Complex	16-ALL16	$105,360.00
UG CABLE UG - Cable Removal - all cables	16-UG117	$34,000.00
UG CABLE DB/UG - 350/500 - 3-1/C (3ph) Cu [redacted] cable	16-UG114	$59,160.00
UG CABLE DB/UG - 350/500 - 3-1/C (3ph) Cu [redacted] cable	16-UG114	$59,160.00

[redacted]

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Attachment A – Cost Estimate – Installs

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD01964

[redacted]

Design Alternative CD01964-02

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$249,858
Contingency Amount:	$69,960
Estimate:	$319,818
Reimbursement:	$0
Net Amount:	**$319,818**
Description:	[redacted]

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Complex	16-ALL16	$105,360.00
UG CABLE DB/UG - 4/0 - 3-1/C (3ph) Cu 4/0 AL cable - install	16-UG113B	$105,600.00
UG CABLE UG - Cable Removal - all cables 4/0 AL cable - remove	16-UG117	$20,000.00
XF DB/UG - Padmount XF - 3ph padmounts for service	16-UG131	$18,897.60

[redacted]

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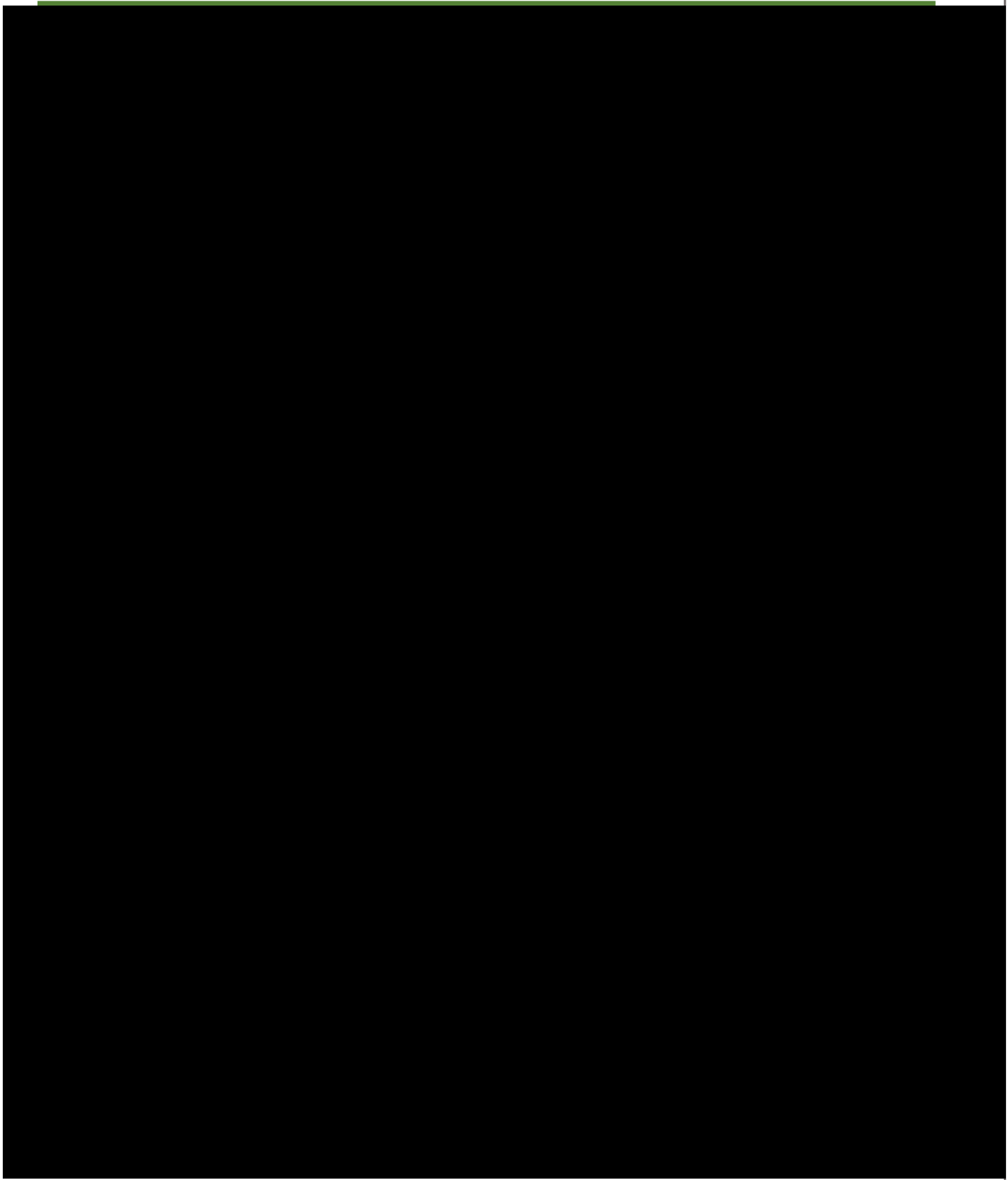
Attachment B – Construction Map









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APS 1 - Project Authorization Policy

Appendix 2
Operations Project Authorization Form

Operations Project Authorization Form

Project Title: [redacted]	**Project Number: CD01964**
Date Prepared: 03/11/2022	**Company:** Eversource CT
Organization: EFO	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category: New Service**
Project Manager [redacted]	**Project Type:** Specific
Project Sponsor [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in service date: 12/31/22, 12/31/23	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF **X** Distribution
Total Gross Capital Request: $639K (100% reimbursable)	**Authorization Type:** Partial Funding

Executive Summary

[redacted] Eversource will supply this new load with our existing infrastructure currently supplying [redacted] Two existing manholes and corresponding ductbanks with feeder cables are in the way of the footprint of the hotel and will need to be removed and relocated. Great Wolf's contractor will provide this material and perform the relocation. [redacted]

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Operations Project Authorization Form

Project Costs Summary

See APS3 and APS8 requirements and consult with Plant Accounting for capital/O&M determination. Use published loaders for benefits, materials, and invoices, maintained by the Director, Budget and Internal Reporting.
Note: Dollar values are in thousands

Capital Costs	Year 2022	Year 2023	Year 2024	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	$26	$26	$0	$52
Outside Services	$88	$88	$0	$177
Materials	$72	$72	$0	$144
Removals	$11	$11	$0	$22
Risk and Contingency	($28)	($28)	$0	($56)
Other	$0	$0	$0	$0
Subtotal	**$169**	**$169**	**$0**	**$339**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	$138	$143	$0	$281
Capitalized interest or AFUDC, if any	$6	$6	$0	$12
Subtotal	**$143**	**$149**	**$0**	**$293**
Total Customer Contribution	**($320)**	**($320)**	**$0**	**($639)**
Total Capital Project Costs	**($7)**	**$6**	**$0**	**($1)**

Technical Justification:

Project Need, Objective and Justification

[redacted] Manholes #91 and #92 and the corresponding ductbank are in the way of the new hotel and need to be removed. The contractor for [redacted] will perform this removal and will install two new manholes and ductbanks, scheduled to be completed December 2022.

Project Scope

[redacted]

Major Material

500 kcmil Cu cable – 1,700 feet

4/0 kcmil AL cable – 2,200 feet

2500 kVA padmount transformers – 6

Background

[redacted]

The total load is estimated to be [redacted] and needs reliable service to operate. This circuit design will provide the reliable service required.

Alternatives Considered:

None

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	6/30/22
Construction Start, Phase 1	9/1/22
Testing/Commissioning Cable, Phase 1	11/30/22
In Service Date, Phase 1	12/31/22
Construction Start, Phase 2	9/1/23
Testing/Commissioning Cable, Phase 2	11/30/23
In Service Date, Phase 2	12/31/23

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2022/ 2023	Low	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Internal construction resources not available to perform the work.	2022/ 2023	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost if necessary.
Materials shortage or long lead times	2022/ 2023	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2022/ 2023	Medium	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2022/ 2023	Medium	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods

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APS 1 - Project Authorization Policy

Appendix 2
Operations Project Authorization Form

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

