EVERSOURCE

Project Approval Form

Project Title: [redacted] ROW Contingency Overload Project - Revision	Project Number: CD02003
Date Prepared: 12/13/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** OVERLOADS-SPECIFIC PROJECTS
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: $1,822.6K	**Authorization Type:** Full Funding

1. Executive Summary

This project addresses several [redacted]

[redacted]

The total cost of this revised project is $1.39M as compared to the original cost of $1.38M or an increase of $9,554 in capital expenditure and results in a cost per minute saved of $4.89 with an in-service date of 12/31/2024.

. Initial Funding Estimate vs. Bid Document:

The bid amount of $1,822,550 was 134% above the partial funding estimate amount of $1,358,793 for the [redacted] – ROW Contingency Overload Project. The overall difference between partial funding estimate as compared to the bid document equates to an over expenditure of $463,757 with no change in scope. To summarize this difference between the partial funding estimate as compared to the bid document equals $100,000 in matting costs and $363,757 due to the use of legacy estimating units in the partial funding estimate.

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	44.1			44.1
Outside Services	660.0			660.0
Materials	198.7			198.7
Removals	68.7			68.7
Risk and Contingency	165.7			165.7
Other	27.1			27.1
Subtotal – Direct Costs	1,164.4			1,164.4
Indirect Capital Costs				
Indirect/Overheads (including benefits)	658.2			658.2
Capitalized interest or AFUDC, if any	0.0			0.0
Subtotal – Indirect Costs	658.2			658.2
Total Gross Capital Costs	**1,822.6**			**1,822.6**
Customer Contribution	0.0			0.0
Total Net Capital Project Costs	**1,822.6**			**1,822.6**

Explain unique payment provisions, if applicable:

3. Technical Justification

a. Background

[redacted]

b. Project Need

[redacted]

[redacted]

c. Project Scope

[redacted]

[redacted]

Major Material:

8 – 50/1 Steel Poles

9 – 45/1 Steel Poles

5 – 50/1 CCA Frontier Poles

2 – 25 kVA Single Phase Transformers

2 – 900 Amp. GOAB Disconnect Switch

500'- 1000 MCM CU EPR JKT 25kV UG Cable

3,300' – 750 MCM Al. 25 kV Aerial Cable

2,975' – 1/0 ACSR Neutral

275' - 556 AAC Tree Wire

4. Alternatives Considered

[redacted]

[redacted]

Project Option Comparison

	Option
[redacted]	

[redacted]

Authorization Type	Full	*Partial	*Partial
Capital Cost	$1.82M	$1.74M	$5.29M
Expense Cost	$0.05M	$0.05M	$0.16M
Total Cost	$1.87M	$1.79M	$5.45M
Total Cost / MVA added	$1.75/MVA	$1.79/MVA	$5.45/MVA
Total Cost / CM Saved	$6.43/CM	$6.32/CM	$19.25/CM
Total Cost / CI Saved	$185.2K/CI	$181.8K/CI	$554.0K/CI
Preferred option	X		

*30% was added to Partial Funding to account for legacy estimating units.

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	12/2022
100% Detailed Engineering Completion	7/2023
Environmental Permits	10/2023
Fully Funded	12/2023
Construction Start	3/2024
In Service Date	12/2024

6. Regulatory Decisions

7. Codes and Standard

8. Risk and Contingencies

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	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	Medium	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.

9. References

References
1.
2.
3.

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

Attachment	Included in Submittal?
A. Partial PAF Document	*YES*
B. Cost Estimate	*YES*
C. System and Station One-Lines	*YES*
D. Load Sheet	*YES*
E. Manhole/Aerial Cable Sketches	*YES*

A. Partial PAF Document:

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Operations Project Authorization Form

Project Title: [redacted] ROW Contingency Overload Project - Revision	**Project Number: CD02003**
Date Prepared: 12/22/2022	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** OVERLOADS-SPECIFIC PROJECTS
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** No
Estimated in service date: 12/31/2024	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? No	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: $1.358M	**Authorization Type:** Initial Funding

Executive Summary:

[redacted]

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[redacted]

The total cost of this revised project is $1.39M as compared to the original cost of $1.38M or an increase of $9,554 in capital expenditure and results in a cost per minute saved of $4.89 with an in-service date of 12/31/2024.

Project Costs Summary:
Note: Dollar values are in thousands

Capital Costs	2024	2025	2026+	Total
Internal Labor and Construction Equipment	$55	$0	$0	$55
Outside Services	$463	$0	$0	$463
Materials	$265	$0	$0	$2635
Removals	$57	$0	$0	$57
Risk and Contingency	$0	$0	$0	$0
Other	$0	$0	$0	$0
Subtotal	**$840**	**$0**	**$0**	**$840**

Indirect Capital Costs	2024	2025	2026+	Total
Indirects/Overheads (including benefits)	$483	$0	$0	$483
Capitalized interest or AFUDC, if any	$35	$0	$0	$35
Subtotal	**$518**	**$0**	**$0**	**$518**
Total Capital Costs (Gross)	**$1,358**	**$0**	**$0**	**$1,358**

Less Total Customer Contribution	**$0**	**$0**	**$0**	**$0**
Project Costs (Net)	**$1,358**	**$0**	**$0**	**$1,358**

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Technical Justification:

Project Need:

[redacted]

Objective:

[redacted]

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Justification:

[redacted]

Project Scope:

[redacted]

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[redacted]

Major Material:

8 – 50/1 Steel Poles	2 – 25 kVA Single Phase Transformers
9 – 45/1 Steel Poles	2 – 900 Amp. GOAB Disconnect Switch
5 – 50/1 CCA Frontier Poles	
500' - 1000 MCM CU EPR JKT 25kV UG Cable	
3,300' – 750 MCM Al. 25 kV Aerial Cable	
2,975' – 1/0 ACSR Neutral	
275' - 556 AAC Tree Wire	

Alternatives Considered:
Alternatives were considered (please describe below)

[redacted]The cost of this second alternative is $4.19M and a cost per minute saved at $12.92.

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[redacted]

Project Option Comparison

[redacted]

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[redacted]

Cost	$1.39M	$1.38M	$4.19M
Cost / MVA added	$0.251/MVA	$0.183MVA	$1.524/MVA
Cost / CM Saved	$4.89/CM	$4.86/CM	$12.92/CM
Cost / CI Saved	$859.95/CI	$853.03/CI	$2,267.58/CI
Preferred option	X		

Regulatory Approvals:

Are Regulatory body approvals needed for the project?

Yes

In the second alternative, this project will require a state highway permit for pole replacements and Department of Transportation permits to adjust traffic flow along Cherry Brook and River Roads.

Project Schedule:

Milestone/Phase Name	Estimated Date
Preliminary Approval	12/2022
Detailed Design	7/2023
Environmental Permits	10/2023
Construction Start	3/2024
In Service Date	12/2024

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Risks and Risk Mitigation Plans:

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	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	Medium	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.

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Wetlands / Environmentally sensitive area	2024	Low	Use of mats and specialty equipment, only work during certain times of the year.

References:

[redacted] Project Matrix.pptx

Appendices:

CD02003 - [redacted] 5R6 ROW - Con | Project CD02003 - [redacted] | Project CD02003 - [redacted] | Project CD02003 - [redacted] | CD02003 - Canton [redacted] OW Load: | Central 2021 TD 941 - TR's to disable.xlsx

[redacted] ROW Correspondnece.do

B. Cost Estimate:

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A Northeast Utilities Company

Specific Project Proposal - Project #: CD02003 [redacted]

Work Classification

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

Ownership / Management

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

Project Information

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

Budget Summary - Preferred Option

Aerial /Manhole Configuration in ROW - Preferred Option

2024

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	Aerial/Manhole Configuration in ROW	Prelim	0	28%	$1,385,793	$1,385,793
				2024 Total:	$1,385,793	$1,385,793
				Total Project:	$1,385,793	$1,385,793

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Specific Project Proposal - Project #: CD02003

[redacted]

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	Aerial /Manhole Configuration in ROW - Preferred Option	1	$1,385,793	$0	100%	$12.10	$4.89	☑
O2	5R2/5R6 Aerial Cable Configuration - First Alternative	2	$1,376,239	$0	100%	$12.02	$4.86	☐
O3	Manhole Ductbank Configuration - Second Alternative Option	3	$4,193,772	$0	100%	$31.95	$12.92	☐

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	Aerial/Manhole Configuration in ROW	$1,385,793			$12.09	$4.89
2	Aerial Cable Configuration in ROW	$1,376,239			$12.01	$4.85
3	Manhole/Ductbank Configuration in ROW	$4,193,772			$31.92	$12.91
4	Spare Segment	$0			$0.00	$0.00
5	Spare Segment	$0			$0.00	$0.00

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Specific Project Proposal - Project #: CD02003 [redacted]

Background / Scope

Issue:

[redacted]

Project Description:

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Specific Project Proposal - Project #: CD02003

[redacted]

[redacted]

Other Considerations:

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Specific Project Proposal - Project #: CD02003

[redacted]

[redacted]

Revision / ACT Comments:

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Specific Project Proposal - Project #: CD02003 [redacted]

[redacted]

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Specific Project Proposal - Project #: CD02003 [redacted]

Environmental

Water Pollution: Decrease Soil Contamination: Decrease Natural Habitats: Decrease

Alternatives considered based on Environmental Impact or Description of Aspects Oil Spill Risks Considered? ☐

Safety Concerns With This Project? ☐

Explain:

External Stakeholders

Customer Impact / Involvement

Cust. Impacted [redacted] Approx. Pole Count (NU): 15

Crit. Cust. Impacted [redacted] Approx. Pole Count (Other): 5

Adjoining Property Owner Consent Required: ☑ Town Hearing Required: ☐

Other Utility Pole Custodian Area: ☑ Easement Required: ☐

State Highway Permit Required: ☑

Relocation / New Service

New Srvc. Contact: Requestor Type:

Customer Type: State Highway Project #:

Request Number: Route #:

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Specific Project Proposal - Project #: CD02003

[redacted]

Design Alternative CD02003-01

General Information

Segment: 1 - Aerial/Manhole Configuration in ROW
Status: Prelim Design Submitted
Segment Type: LOAD/CAPACITY
Town: CANTON
Budget Year: 2024
Work Type: BB-Reconductoring
Trimming Required: ☑
In Service Date: 12/31/2024
Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed
1	[redacted]		

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Specific Project Proposal - Project #: CD02003 [redacted]

Design Alternative CD02003-01

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$1,082,651
Contingency Amount:	$303,142
Estimate:	$1,385,793
Reimbursement:	$0
Net Amount:	**$1,385,793**

Description [redacted]

Item Description	CU	[redacted]	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17		$14,038.40
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18		$5,000.00
OH WIRE OH - Ampact Connectors - 3ph (6 Ampacts)	16-OH22		$5,768.00
TREE OH - Trimming for Taller Pole	16-OH64		$8,500.00
UG CABLE DB/UG - 750/1000 - 3-1/C (3ph) Cu	16-UG114B		$48,000.00
POLE OH - JUNCTION POLE - 3ph (CL&P custodian) 2 - 50/1 Steel Jct. Poles	16-OH14A		$23,380.80
SECTIONALIZE OH - Cutouts or Arresters - 1ph 2 - C/O's @ Xfmrs.	16-OH19		$2,742.40
SECTIONALIZE	16-OH20		$4,630.40

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Specific Project Proposal - Project #: CD02003

[redacted]

Design Alternative CD02003-01

OH - Cutouts or Arresters - 3ph 2 - L.A.			
OTHER OTHER 5 - 45/1 Steel Poles Adder @ $2500/ea , 8 - 50/1 -Steel Pole Adder @ [redacted] der @ $2500/ea	16-ALL14	[redacted]	$46,500.00
POLE OH - POLE - 3ph (Telephone custodian) 5 - 50/1 CCA Poles	16-OH12	[redacted]	$17,800.00
OH WIRE OH - Neutral 5R2 - P# 8707 - 6701=1,250', 5R1 - P# 8712 - 116= 500', 5R6 - New [redacted]	16-OH31	[redacted]	$18,240.00
OTHER OTHER Contractor Adder @ 30%	16-ALL14	[redacted]	$300,389.00
OTHER OTHER Core Bore for 17 Pole Sets @ $950/ea	16-ALL14	[redacted]	$16,150.00
OTHER OTHER Cost for Environmental Study/Permit	16-ALL14	[redacted]	$30,000.00
OTHER OTHER Cost for Mowing	16-ALL14	[redacted]	$1,000.00
OTHER OTHER Cost for Track Vehicle @ $2000/ea	16-ALL14	[redacted]	$34,000.00
SECTIONALIZE OH - GOAB Switch Inst 2 - GOAB Disc. Sw. @ P# 8713, 700	16-OH44	[redacted]	$41,132.80
OH WIRE OH-Install Aerial Cable-existing poles (any gauge) Inst 750 MCM Al Aerial Cable @ New Riser Pole - P# 79=1,100', P# 8 [redacted] 1,100'	16-OH36	[redacted]	$303,600.00
OTHER OTHER Matting in ROW	16-ALL14	[redacted]	$50,000.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil P# 8713 - 6701=150', P# 700 - 116=125'	16-OH27	[redacted]	$21,340.00
OH WIRE	16-OH37A	[redacted]	$9,072.00

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Connecticut Light & Power
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Specific Project Proposal - Project #: CD02003 [redacted]

Design Alternative — CD02003-01

OH - Remove circuit wire (3 phase) Rmv. existing 336 Bare Primary Conductor 1425' @ [redacted]		
OH WIRE OH - Remove circuit wire (1 phase) Rmv. existing 350 MCM Aerial Cable =1,420'	16-OH37	$3,408.00
EQUIPMENT OH - Remove Capacitor, any kVAR Rmv./Inst. Capacitor Bank @ P# 363	16-OH54	$3,600.00
POLE OH - POLE - 3ph (CL&P custodian) Steel Poles - 9- 45/1, 8 - 50/1	16-OH14	$70,140.00
XF OH - OH XF - 1ph Xfmr. @ P# 361 & P# 81	16-OH45	$4,219.20

Associated / Impacted Devices

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

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Specific Project Proposal - Project #: CD02003 [redacted]

Design Alternative CD02003-01

Reliability Projection

Title:

Outage Start Date: 2/9/2018 Outage End Date: 2/9/2022 Years History: 4.00

[redacted]

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Specific Project Proposal - Project #: CD02003 [redacted]

Design Alternative CD02003-02

General Information

Segment: 2 - Aerial Cable Configuration in ROW
Status: Draft
Segment Type: LOAD/CAPACITY
Town: CANTON
Budget Year: 2024
Work Type: BB-Reconductoring
Trimming Required: ☑
In Service Date: 12/31/2024
Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed
1	[redacted]		

Connecticut Light & Power
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Specific Project Proposal - Project #: CD02003 [redacted]

Design Alternative CD02003-02

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$1,075,186
Contingency Amount:	$301,052
Estimate:	$1,376,239
Reimbursement:	$0
Net Amount:	**$1,376,239**
Description:	[redacted]

Item Description	CU	[redacted]	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17		$14,038.40
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18		$5,000.00
OH WIRE OH - Ampact Connectors - 3ph (6 Ampacts)	16-OH22		$5,768.00
TREE OH - Trimming for Taller Pole	16-OH64		$8,500.00
POLE OH - JUNCTION POLE - 3ph (CL&P custodian) 2 - 55/1 Steel Jct. Poles	16-OH14A		$35,071.20
SECTIONALIZE OH - Cutouts or Arresters - 1ph 2 - C/O's @ Xfmrs.	16-OH19		$2,742.40
SECTIONALIZE OH - Cutouts or Arresters - 3ph 2 - L.A.	16-OH20		$4,630.40

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Specific Project Proposal - Project #: CD02003 [redacted]

Design Alternative		CD02003-02
POLE OH - POLE - 3ph (Telephone custodian) 5 - 50/1 CCA Poles	16-OH12	$17,800.00
OH WIRE OH - Neutral [redacted] P#8707 - 8713=1,100', 5R1 - P#8712 - 700= 385', 5R6 - 5R[redacted]	16-OH31	$18,592.00
OTHER OTHER 6 - 45/1 Steel Pole Adder @ $2,500/ea, 6 - 50/1 -Steel Pole Adder	16-ALL14	$42,500.00 @ $3,000/ea
OTHER OTHER Contractor Adder 30%	16-ALL14	$298,318.00
OTHER OTHER Core Bore for 17 Pole Sets @ $950/ea	16-ALL14	$16,150.00
OTHER OTHER Cost for Mowing	16-ALL14	$1,000.00
OTHER OTHER Cost for Track Vehicle @ $2000/ea	16-ALL14	$34,000.00
OTHER OTHER Enviromental Study/Permit	16-ALL14	$30,000.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil Inst 556 T.W. @ P# 8713 - 6701= 150', P#700 - 116= 125'	16-OH27	$21,340.00
OH WIRE OH-Install Aerial Cable-existing poles (any gauge) Inst 750 MCM Al Aerial Cable [redacted]	16-OH36	$351,440.00
SECTIONALIZE OH - GOAB Switch Inst.2 - GOAB Disc. Sw. @ P# 8713, 700	16-OH44	$41,132.80
OTHER OTHER Matting in ROW	16-ALL14	$41,400.00
OH WIRE OH - Remove circuit wire (3 phase) Rmv. existing 336 Bare Primary Conductor 1,42[redacted]	16-OH37A	$9,072.00

Asset & Investment Management System 12/16/2022 Page 15 of 24

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02003

[redacted]

Design Alternative		[redacted]	CD02003-02
OH WIRE OH - Remove circuit wire (1 phase) Rmv. existing 350 MCM Aerial Cable= 1,420'	16-OH37		$3,408.00
EQUIPMENT OH - Remove Capacitor, any kVAR Rmv./Inst. Capacitor Bank @ P# 363	16-OH54		$3,600.00
POLE OH - POLE - 3ph (CL&P custodian) Steel Poles - 6 - 45/1, 8- 50/1	16-OH14		$65,464.00
XF OH - OH XF - 1ph Xfmr. @ P# 361 & P# 81	16-OH45		$4,219.20

Associated / Impacted Devices

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

Reliability Projection

Title:

Outage Start Date: 2/9/2018 Outage End Date: 2/9/2022 Years History: 4.00

[redacted]

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02003

[redacted]

Design Alternative

CD02003-03

General Information

Segment: 3 - Manhole/Ductbank Configuration in ROW Status: Draft

Segment Type: LOAD/CAPACITY Town: CANTON Budget Year: 2024

Work Type: BB-Reconductoring Trimming Required: ☐ In Service Date: 12/31/2024

Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed
1	[redacted]		

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02003 [redacted]

Design Alternative — CD02003-03

Estimate

Preliminary Estimate Summary	
Revision Number:	0
Contingency:	28.00%
SubTotal:	$3,276,384
Contingency Amount:	$917,388
Estimate:	$4,193,772
Reimbursement:	$0
Net Amount:	**$4,193,772**

Description: ENG EStimate - Manhole/Ductbank Installation in ROW

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average	16-ALL17	$14,038.40
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	$403,558.00
OH WIRE OH - Ampact Connectors - 3ph (6 Ampacts)	16-OH22	$11,536.00
POLE OH - JUNCTION POLE - 3ph (CL&P custodian) 2 - New 55/1 Junction Poles [redacted] Ckts.	16-OH14A	$23,380.80
ENCLOSURE UG - MANHOLE - Precast 3+5= 8 - 8' x 14' Manholes	16-UG139	$503,891.20
POLE OH - POLE - 3ph (CL&P custodian) [redacted]	16-OH14	$9,352.00
POLE DB/UG - Riser - 3ph [redacted]	16-UG146	$43,177.60
CONDUIT DB - Conduit Installation [redacted]	16-UG152	$36,288.00
UG CABLE DB/UG - 750/1000 - 3-1/C (3ph) Cu	16-UG114B	$696,960.00

[redacted]

Asset & Investment Management System — 12/16/2022 — Page 18 of 24

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02003 [redacted]

Design Alternative — CD02003-03

850' x 3= 2625'+75+50+50"+100=2825', 1150'*3+125+ 265+45+250			
CONDUIT UG-Ductline-up to 12 duct-Non- Traveled/Non-Paved 850+950'= 1,800'	16-UG138	[redacted]	$339,840.00
OTHER OTHER Contractor Adder @ 25%	16-ALL14		$794,275.00
OTHER OTHER Cost for Access Road & Driveway and Road Repair	16-ALL14		$30,000.00
OTHER OTHER Cost for Ledge Removal @ 5%	16-ALL14		$149,300.00
OTHER OTHER Cost for Mowing	16-ALL14		$1,000.00
OTHER OTHER Crane @ Manhole Instl. $250/hr/10 hr.day	16-ALL14		$10,000.00
CONDUIT UG-Ductline-up to 12 duct - Traveled Way / Paved Ductbank across Albany Turnpike	16-UG137		$62,560.00
OTHER OTHER Enviromental Study/Permit	16-ALL14		$30,000.00
SECTIONALIZE OH - GOAB Switch Inst GOAB Disc. Sw @ [redacted] Risers	16-OH44		$41,132.80
OTHER OTHER Matting in ROW	16-ALL14		$41,400.00
OTHER OTHER Overhead Fault Indicators @ $250/each	16-ALL14		$1,000.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil P# 8707 - MH# 2= 200'	16-OH27		$15,520.00
OH WIRE OH - Remove circuit wire (3 phase)	16-OH37A		$12,560.00

Asset & Investment Management System — 12/16/2022 — Page 19 of 24

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02003 [redacted]

Design Alternative CD02003-03

Rmv. [redacted] Ckts.= 1425' +2500'= 5,345'		
OH WIRE OH - Remove circuit wire (1 phase) Rmv. [redacted] Ckt.	16-OH37	$340.80
POLE OH - Install/Replace Anchor and Guy Transmission Structure	16-OH14B	$5,273.60

[redacted]

Associated / Impacted Devices

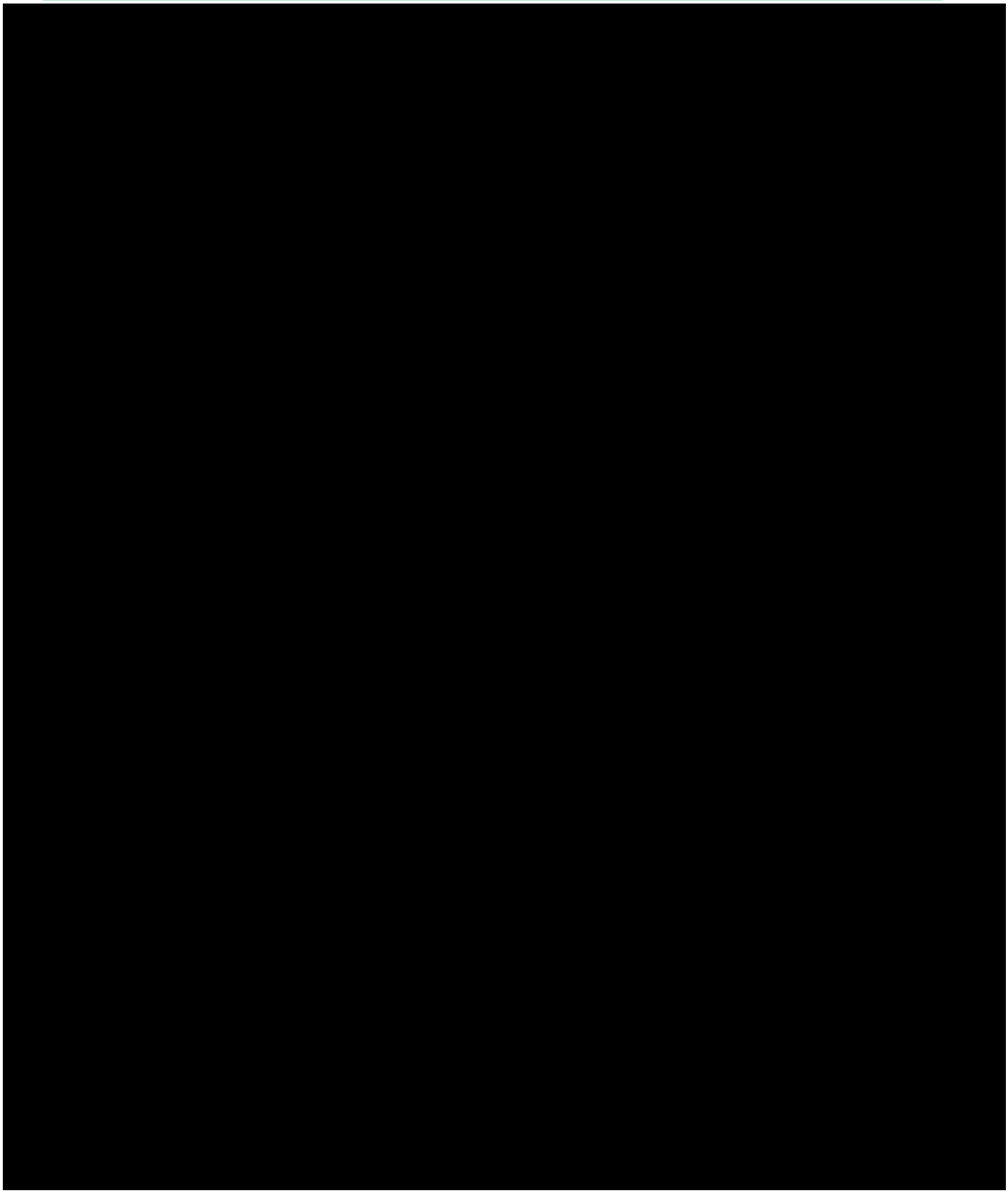
Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes
Existing	[redacted]						
Existing							
Existing							

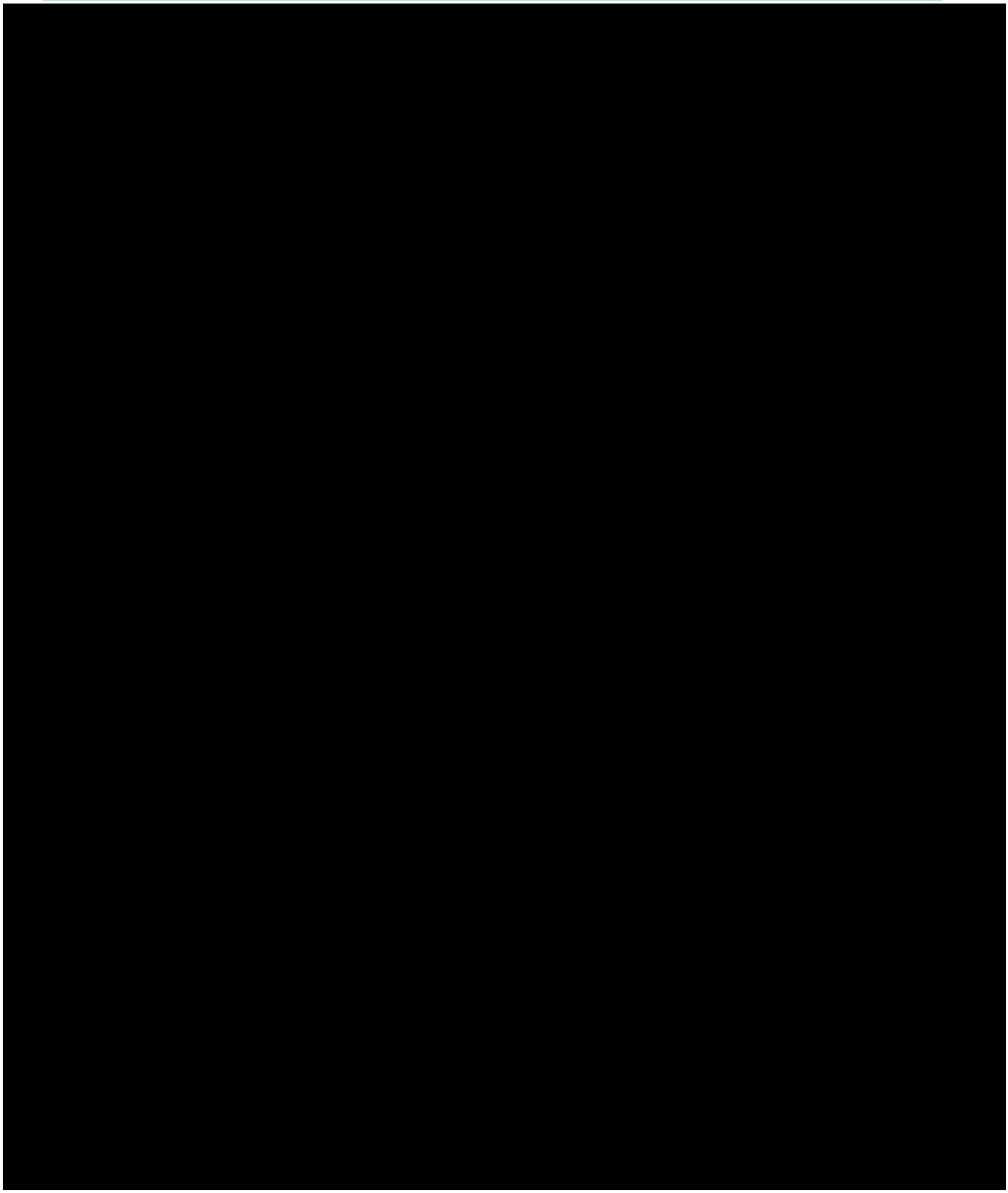
Reliability Projection

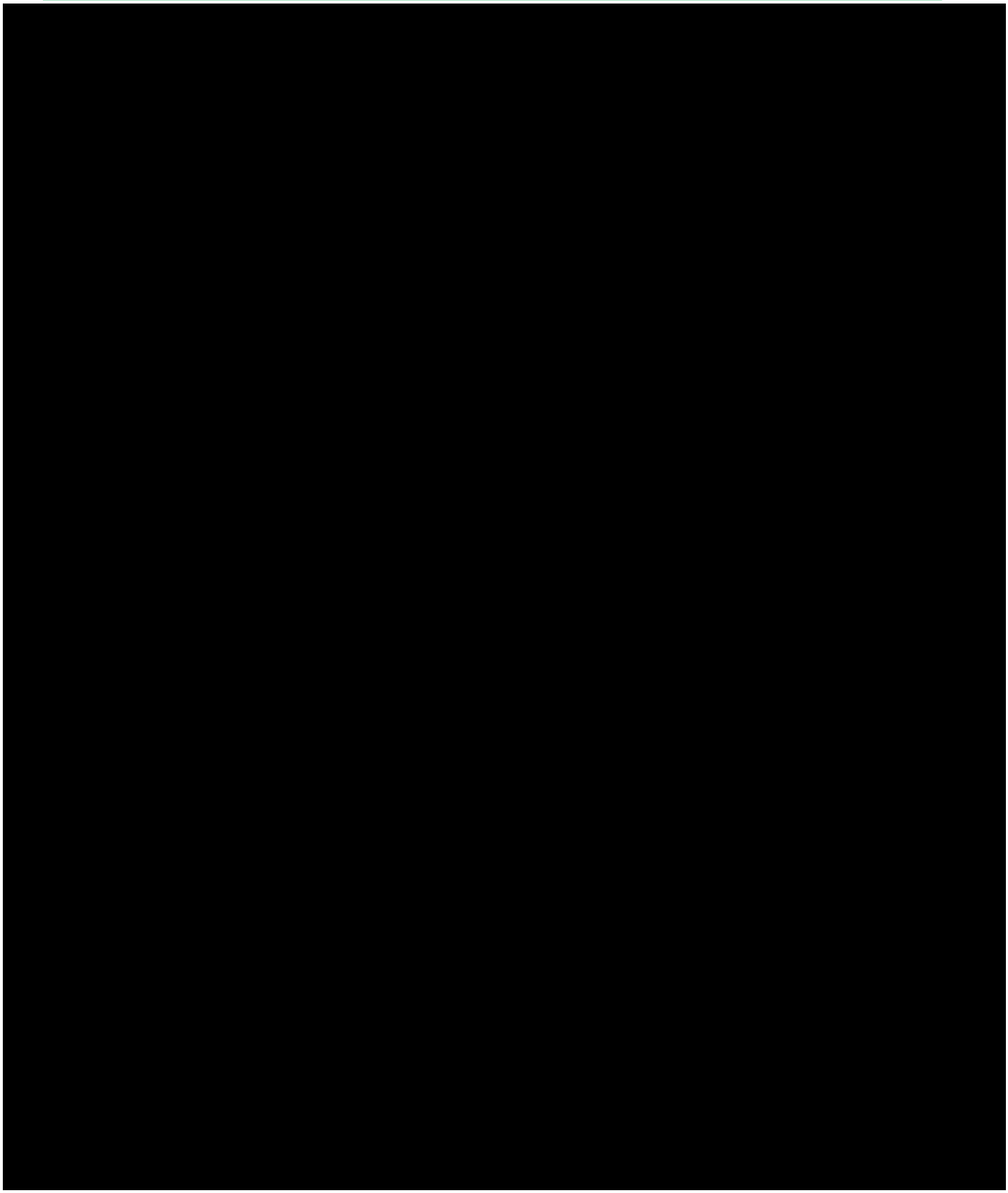
Title:

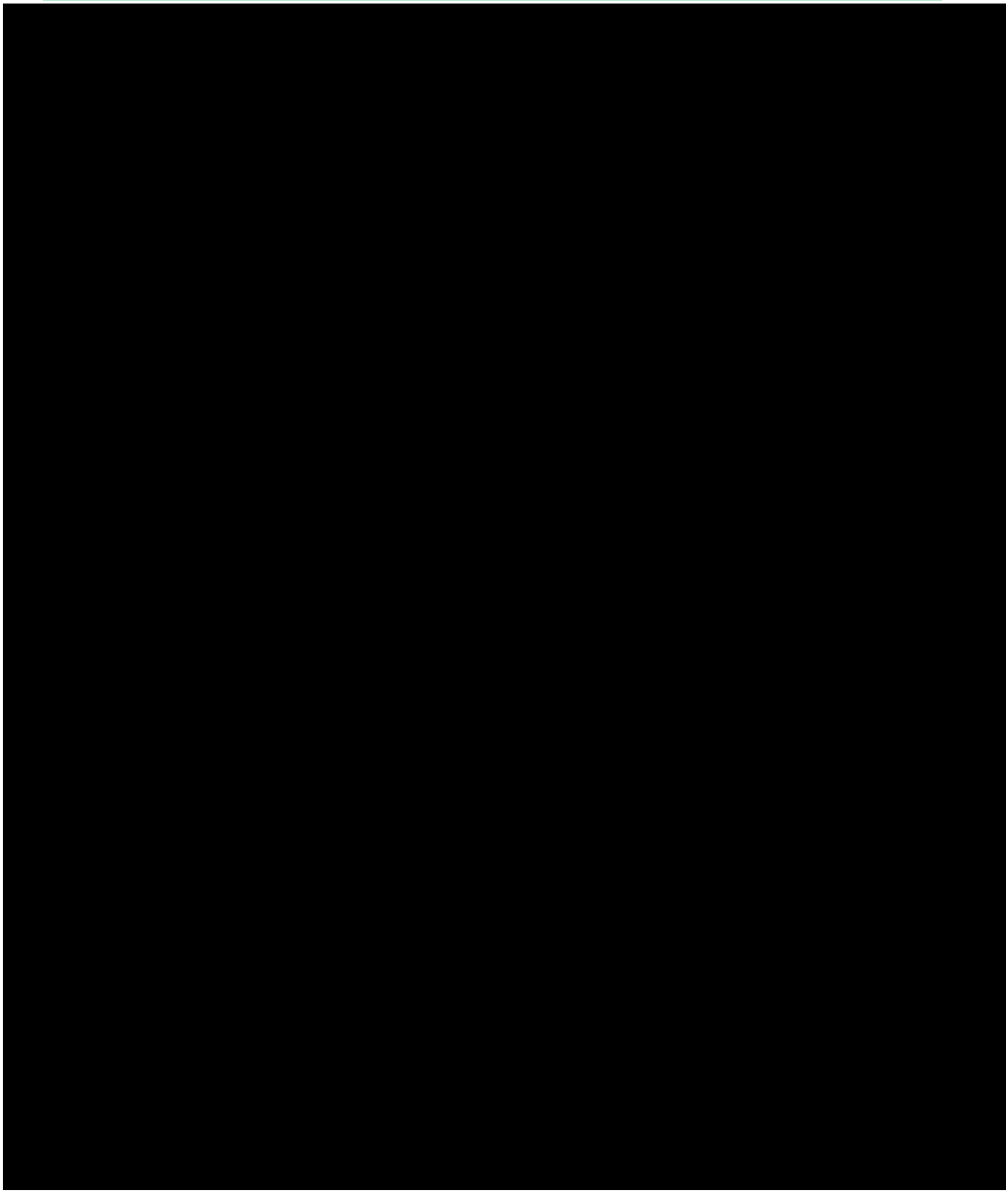
Outage Start Date: 2/9/2018 Outage End Date: 2/9/2022 Years History: 4.00

[redacted]











[redacted]



Project Approval Form

[redacted]

Project Approval Form

[redacted]



