EVERSOURCE

Supplement Authorization Form

Project Title: W Main St WTBY Replace Duct Bank	Project Number: CD02176
Date Prepared: 11/21/2025	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** UNDERGROUND STRUCTURE ISSUE
Initiating Organization: Distribution	**Project Type:** Specific
Project DDE: [redacted]	**Capital Investment part of 5-year 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)
Current Authorized Amount: $2,885.3K	**Approved In-Service Date:** 12/31/2025
Supplement Request: $1,786.6K	**Estimated In-Service Date: 12/31/2025**
Total Capital Request: $4,672.0K	**Authorization Type:** Supplement Request
	Reason: : Cost Overage

1. Project Background

This project was established to cover the costs associated with [redacted]

This project is being revised to reflect a change in the proposed cashflow for this project. There is no change in scope. The additional dollars are due to additional labor associated with the replacement of the duct bank on the West Main Street bridge as well as an increase in the accumulated indirect costs.

- Current Approved Funding Authorization: $2,885.3K.
- Requesting Funding Authorization: $4,672.0K or 162% of the current approved funding authorization.
- Project Location:
  - Division: Western
  - District: Waterbury AWC
  - Town: Waterbury

2. Supplement Justification Overview

- There was no change in scope.
- The main driver for the increase was additional labor associated with the replacement of the duct bank on the West Main Street bridge.

3. Supplement Justification Detail

The reason for the project authorization supplement of $1,786.6K is described below.

1. **Construction (including materials supplied by contractors): $665.3K**
   - [redacted]
   - [redacted]
   - [redacted]
2. **Indirects/Overhead: $1,121.3K –**
   - [redacted]

4. Supplement Cost Summary (Project Total)

Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Internal Labor and Construction Equipment	232.9	181.7	77.9	259.6
Outside Services	1,094.9	672.7	465.3	1,138.0
Materials	139.3	149.5	90.7	240.2
Removals	0.0	130.9	66.5	197.4
Risk and Contingency	0.0	173.1	-37.6	135.5
Other	3.7	0.9	2.4	3.3
Subtotal	**1,470.8**	**1,308.8**	**665.3**	**1,974.1**

Indirect Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Indirects/Overheads (including benefits)	2,210.8	1,557.4	1,098.8	2,656.2
Capitalized interest or AFUDC, if any	41.7	19.2	22.5	41.7
Subtotal	**2,252.5**	**1,576.6**	**1,121.3**	**2,697.9**
Total Capital Costs (Gross)	**3,723.4**	**2,885.4**	**1,786.6**	**4,672.0**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**3,723.4**	**2,885.4**	**1,786.6**	**4,672.0**

New Total Request by Year (if applicable)

Capital Costs	2023 Actual	2024 Actual	2025 Actual	2025 Estimate	TOTAL
Internal Labor & Equipment	2.6	15.3	191.5	50.2	259.6
Outside Services	11.2	67.3	839.4	220.1	1,138.0
Materials	2.4	14.2	177.2	46.5	240.2
Removals	1.8	10.8	134.5	50.3	197.4
Risk and Contingency	0.0	0.0	0.0	135.5	135.5
Other	0.0	0.2	2.4	0.6	3.3
SUBTOTAL Direct Cost	**18.0**	**107.8**	**1,345.1**	**503.3**	**1,974.1**
Indirects / Overheads	12.2	152.5	2,046.1	445.4	2,656.2
AFUDC	0.1	6.7	34.9	0.0	41.7
SUBTOTAL Indirect Cost	**12.3**	**159.2**	**2,081.0**	**445.4**	**2,697.9**
TOTAL Capital Request	**30.3**	**267.0**	**3,426.1**	**948.6**	**4,672.0**
Less Total Customer Contribution	0.0	0.0	0.0	0.0	**0.0**
TOTAL Project Cost	**30.3**	**267.0**	**3,426.1**	**948.6**	**4,672.0**

5. Lessons Learned

EVERSOURCE

Supplement Authorization Form

Project Title: W Main St Wtby Replace Duct Bank	**Project Number: CD02176**
Date Prepared: 09/11/2025	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** UNDERGROUND STRUCTURE ISSUE
Initiating Organization: Distribution	**Project Type:** Specific
Project DDE: [redacted]	**Capital Investment part of 5-year plan?** No
Project Manager: [redacted]	**Emergency Related Request?** No
Project Sponsor: [redacted]	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Current Authorized Amount: $1,845.4K	**Approved In-Service Date:** 12/31/2025
Supplement Request: $1,039.9K	**Estimated In-Service Date: 12/31/2025**
Total Capital Request: $2,885.3K	**Authorization Type:** Supplement Request
	Reason: : Scope Change

1. Project Background

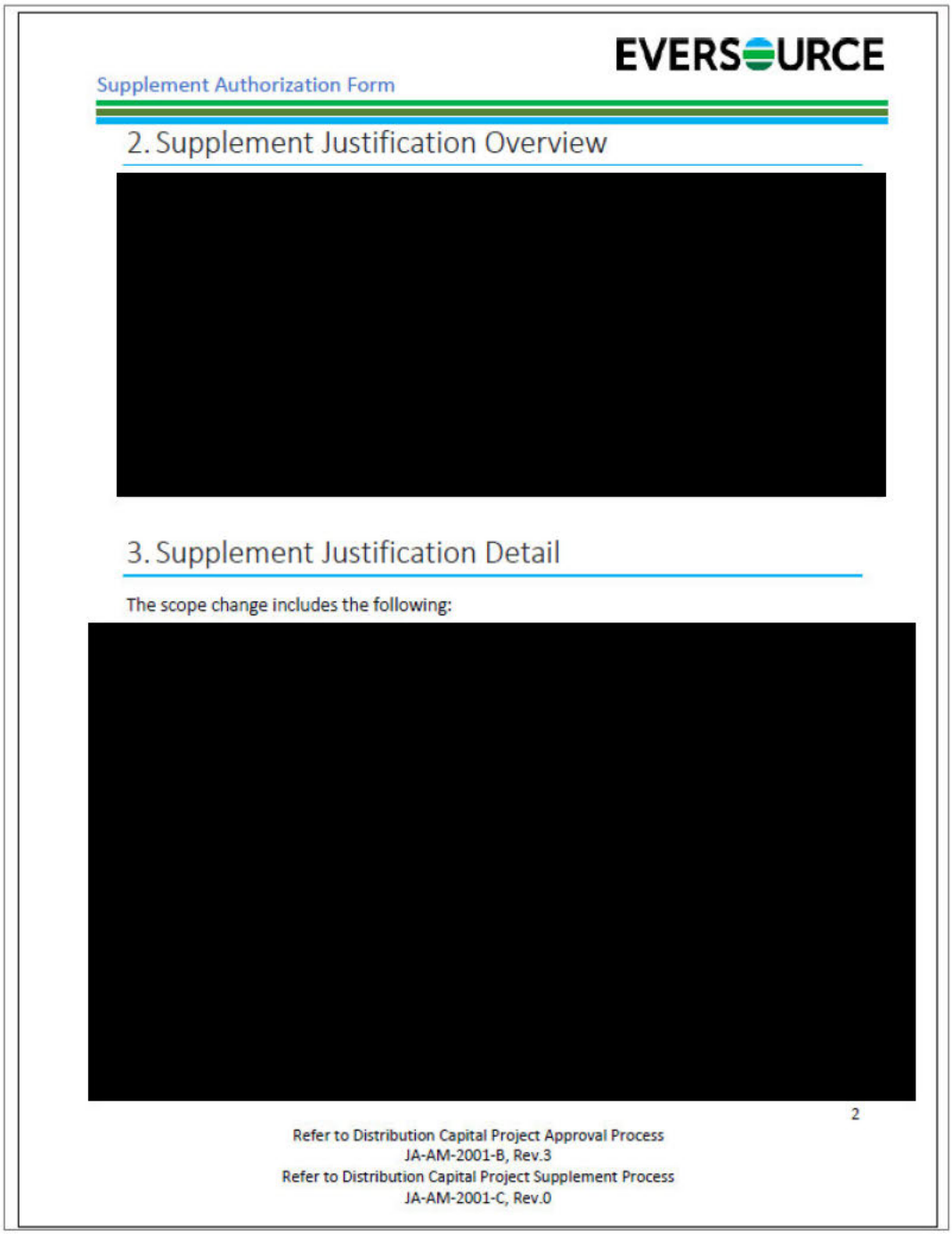
[redacted]

This project is being revised to reflect a change in the proposed cashflow due to a change in scope.

- Current Approved Funding Authorization: $1845.4K.
- Requesting Funding Authorization: $2,885.3K or 156% of the current approved funding authorization.
- Project Location:
  - Division: Western
  - District: Waterbury AWC
  - Town: Waterbury

1

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0



EVERSOURCE

Supplement Authorization Form

2. Supplement Justification Overview

[redacted]

3. Supplement Justification Detail

The scope change includes the following:

[redacted]

2

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

Supplement Authorization Form

4. Supplement Cost Summary (Project Total)

Line-item Category	To Date Spend Year(s)	Prior Authorized Year(s)	Variance (Supplemental Request) Year(s)	New Total Request (Add Prior Authorized and Variance) Year(s)
Internal Labor and Construction Equipment	42.4	83.9	97.8	181.7
Outside Services	157.1	526.7	146.0	672.7
Materials	34.9	197.8	-48.4	149.5
Removals	26.1	216.1	-85.2	130.9
Risk and Contingency	0.0	0.0	173.1	173.1
Other	0.2	0.8	0.1	0.9
SUBTOTAL DIRECTS W/ RISKS	**260.7**	**1,025.3**	**283.4**	**1,308.7**
Indirect / Overhead (including benefits)	271.4	813.2	744.2	1,557.4
AFUDC	19.2	6.8	12.4	19.2
Subtotal – Indirect Costs	**290.6**	**820.1**	**756.6**	**1,576.6**
TOTAL CAPITAL REQUEST	**551.3**	**1,845.4**	**1,039.9**	**2,885.3**
Reimbursables/Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
PROJECT TOTAL (LESS REIMBURSABLES)	**551.3**	**1,845.4**	**1,039.9**	**2,885.3**

3

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

Supplement Authorization Form

New Total Request by Year (if applicable)

Note: If multi-year project, include actuals for current and years past, and then show forecasted spend for upcoming years.

Capital Costs	2023 Actual	2024 Actual	2025 Actual	2025 Estimate	TOTAL
Internal Labor & Equipment	2.9	17.5	22.0	139.2	181.7
Outside Services	10.8	65.0	81.3	515.6	672.7
Materials	2.4	14.4	18.1	114.6	149.5
Removals	1.8	10.8	13.5	104.8	130.9
Risk and Contingency	0.0	0.0	0.0	173.1	173.1
Other	0.0	0.1	0.1	0.7	0.9
SUBTOTAL Direct Cost	**18.0**	**107.8**	**134.9**	**1,048.0**	**1,308.7**
Indirects / Overheads	12.2	152.5	106.7	1,286.0	1,557.4
AFUDC	0.1	6.7	12.4	0.0	19.2
SUBTOTAL Indirect Cost	**12.3**	**159.2**	**119.1**	**1,286.0**	**1,576.6**
TOTAL Capital Request	**30.3**	**267.0**	**254.0**	**2,334.0**	**2,885.3**
Less Total Customer Contribution	0.0	0.0	0.0	0.0	**0.0**
TOTAL Project Cost	**30.3**	**267.0**	**254.0**	**2,334.0**	**2,885.3**

5. Lessons Learned

4

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

Supplement Authorization Form

Attachment A – Scope Change Map



Attachment B – Prior Approved PAF

Supplement Authorization Form

Project Title: W Main St Wtby Replace Duct Bank	Project Number: CD02176
Date Prepared: 01/21/2025	Company: Eversource CT
Organization: Distribution Engineering	Project Category: UNDERGROUND STRUCTURE ISSUE
Initiating Organization: Distribution	Project Type: Specific
Project DDE: [redacted]	Capital Investment part of 5-year plan? Yes
Project Manager: [redacted]	Emergency Related Request? Yes
Project Sponsor: [redacted]	Facility Type (check all that apply): ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Current Authorized Amount: $1,121K	Approved In-Service Date: 12/31/2025
Supplement Request: $724K	Estimated In-Service Date: 12/31/2025
Total Capital Request ($): $1,845K	Authorization Type: Supplement Request
SAF Preparer: Konrad Ryba (Leidos)	Reason: Scope Change

1. Project Background

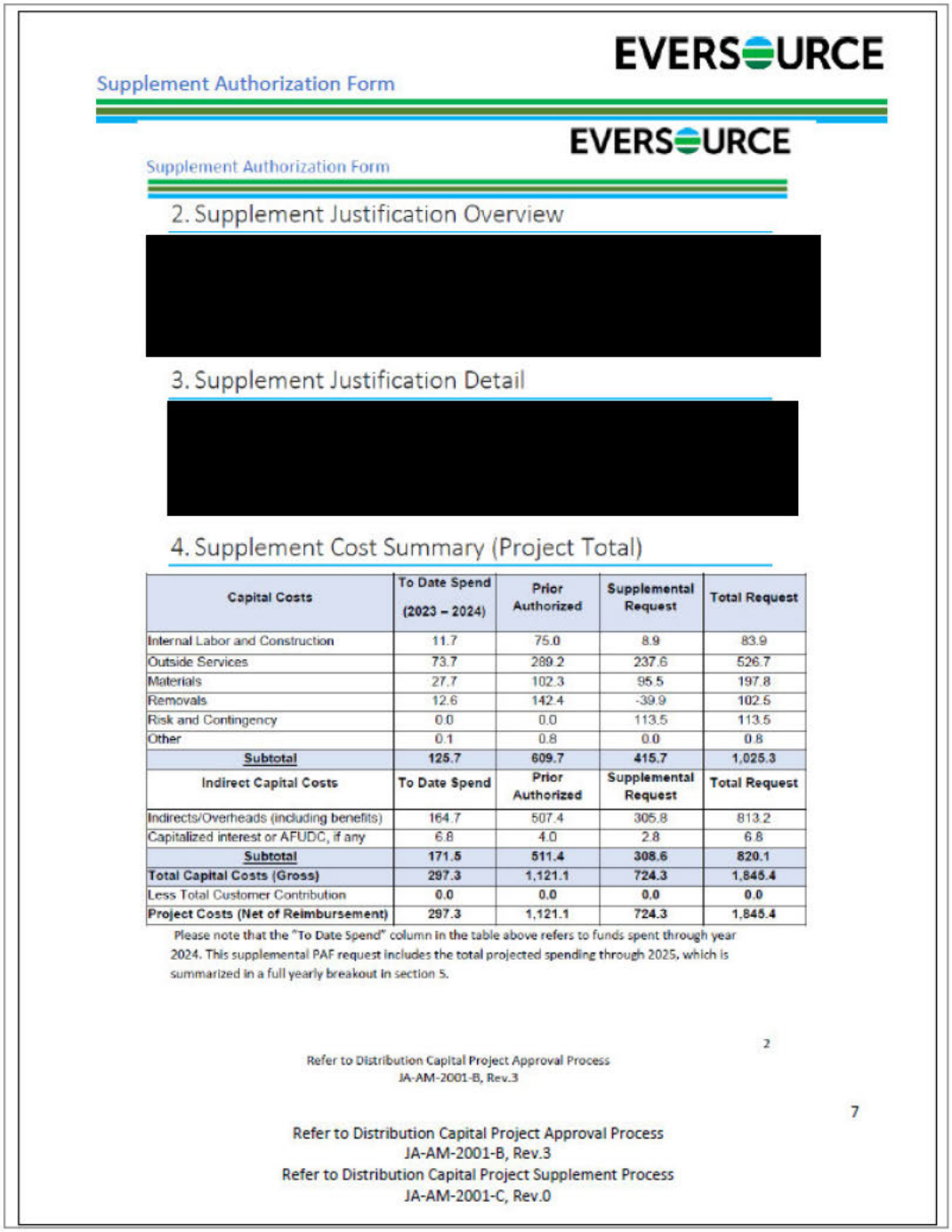
The current authorized amount for CD02176 is **$1,121K.** A supplemental authorization of **$724K** is requested to meet the total capital request of **$1,845K.**

The original project was presented as follows:

[redacted]

1

6



EVERSOURCE
Supplement Authorization Form

EVERSOURCE
Supplement Authorization Form

2. Supplement Justification Overview

[redacted]

3. Supplement Justification Detail

[redacted]

4. Supplement Cost Summary (Project Total)

Capital Costs	To Date Spend (2023 – 2024)	Prior Authorized	Supplemental Request	Total Request
Internal Labor and Construction	11.7	75.0	8.9	83.9
Outside Services	73.7	289.2	237.6	526.7
Materials	27.7	102.3	95.5	197.8
Removals	12.6	142.4	-39.9	102.5
Risk and Contingency	0.0	0.0	113.5	113.5
Other	0.1	0.8	0.0	0.8
Subtotal	**125.7**	**609.7**	**415.7**	**1,025.3**
Indirect Capital Costs	**To Date Spend**	**Prior Authorized**	**Supplemental Request**	**Total Request**
Indirects/Overheads (including benefits)	164.7	507.4	305.8	813.2
Capitalized interest or AFUDC, if any	6.8	4.0	2.8	6.8
Subtotal	**171.5**	**511.4**	**308.6**	**820.1**
Total Capital Costs (Gross)	**297.3**	**1,121.1**	**724.3**	**1,845.4**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**297.3**	**1,121.1**	**724.3**	**1,845.4**

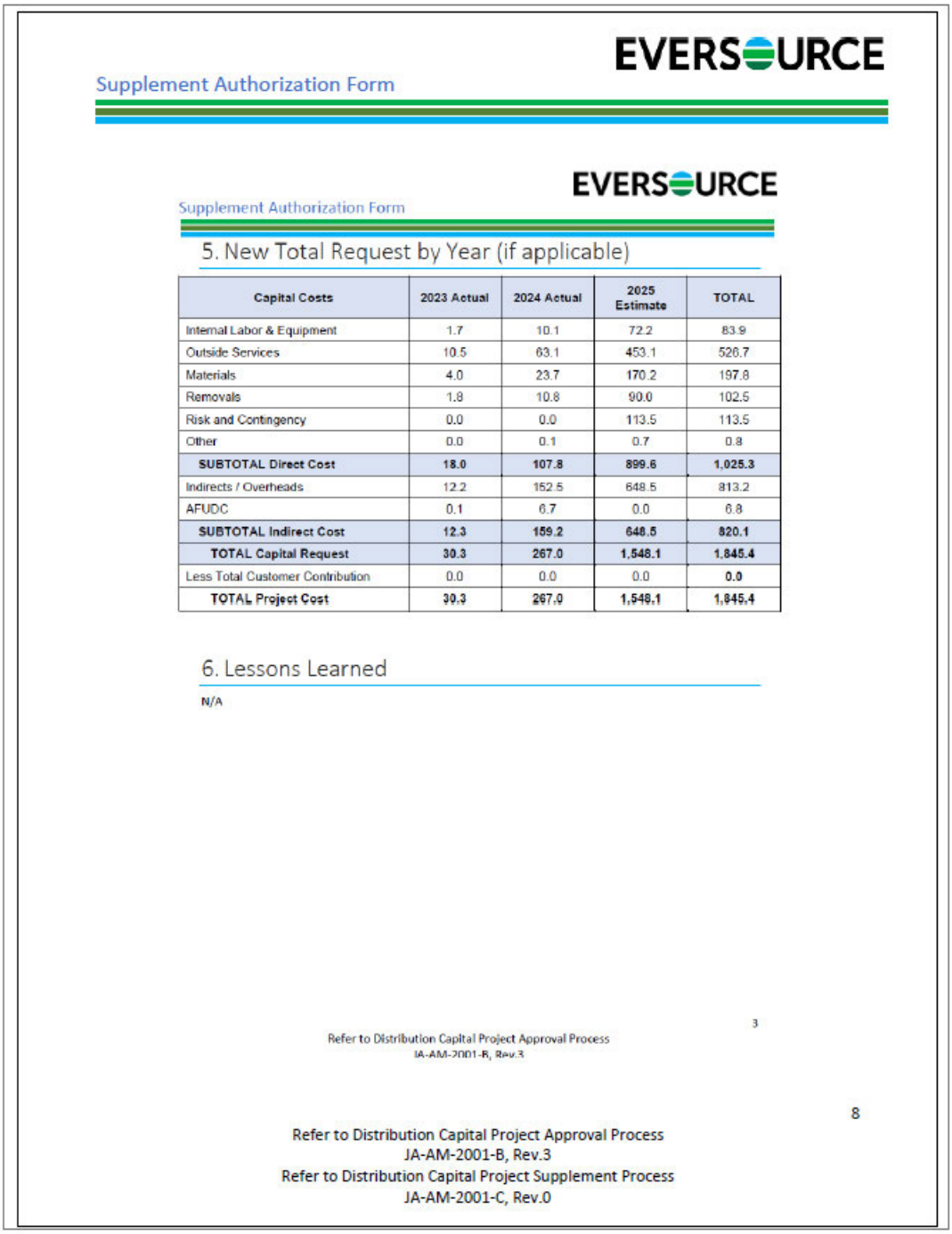
Please note that the "To Date Spend" column in the table above refers to funds spent through year 2024. This supplemental PAF request includes the total projected spending through 2025, which is summarized in a full yearly breakout in section 5.

2

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

7

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0



Supplement Authorization Form

Supplement Authorization Form

5. New Total Request by Year (if applicable)

Capital Costs	2023 Actual	2024 Actual	2025 Estimate	TOTAL
Internal Labor & Equipment	1.7	10.1	72.2	83.9
Outside Services	10.5	63.1	453.1	526.7
Materials	4.0	23.7	170.2	197.8
Removals	1.8	10.8	90.0	102.5
Risk and Contingency	0.0	0.0	113.5	113.5
Other	0.0	0.1	0.7	0.8
SUBTOTAL Direct Cost	**18.0**	**107.8**	**899.6**	**1,025.3**
Indirects / Overheads	12.2	152.5	648.5	813.2
AFUDC	0.1	6.7	0.0	6.8
SUBTOTAL Indirect Cost	**12.3**	**159.2**	**648.5**	**820.1**
TOTAL Capital Request	**30.3**	**267.0**	**1,548.1**	**1,845.4**
Less Total Customer Contribution	0.0	0.0	0.0	**0.0**
TOTAL Project Cost	**30.3**	**267.0**	**1,548.1**	**1,845.4**

6. Lessons Learned

N/A

3

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

8

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

EVERSOURCE

Supplement Authorization Form

EVERSOURCE

Supplement Authorization Form

Full Funding PAF:

Project Title: W Main St Wtby Replace Duct Bank	Project Number: CD02176
Date Prepared: 11/21/2024	Company: Eversource CT
Organization: Distribution Engineering	Project Category: UNDERGROUND STRUCTURE ISSUE
Project Initiator: [redacted]	Project Type: Specific
Initiating Organization: Distribution	Capital Investment part of original Op Plan: Yes
Project Manager [redacted]	Emergency Related Request? Yes
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: $1.12M	Authorization Type: Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of $1.12M which is 205% of the partial funding capital estimate of $546K. CD02176 was partially approved on 3/30/2023. The increase is driven by multiple factors:

- The partial funding estimate was prepared using legacy unit costs, which are approximately 30% lower than the estimates used today. This amounts to a partial funding estimate that would instead total $723,505, which results in a revised variance differential of 155% relative to this full funding request.
- Design (plan and profile) drawings completed by vendor (CHA) and drawings finalized by Eversource.
- Design of the bridge crossing, which included preparation of the required CDOT permit and development of traffic detour plans.
- Test pitting conducted by Stone Construction resulted in additional construction costs to alleviate underground obstacles and replacement of sidewalk infrastructure.

The original project was presented as follows:

[redacted]

4

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

9

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

EVERSOURCE
Supplement Authorization Form

EVERSOURCE
Supplement Authorization Form

[redacted]

2. Project Cost Summary

Note: Dollar values are in thousands.

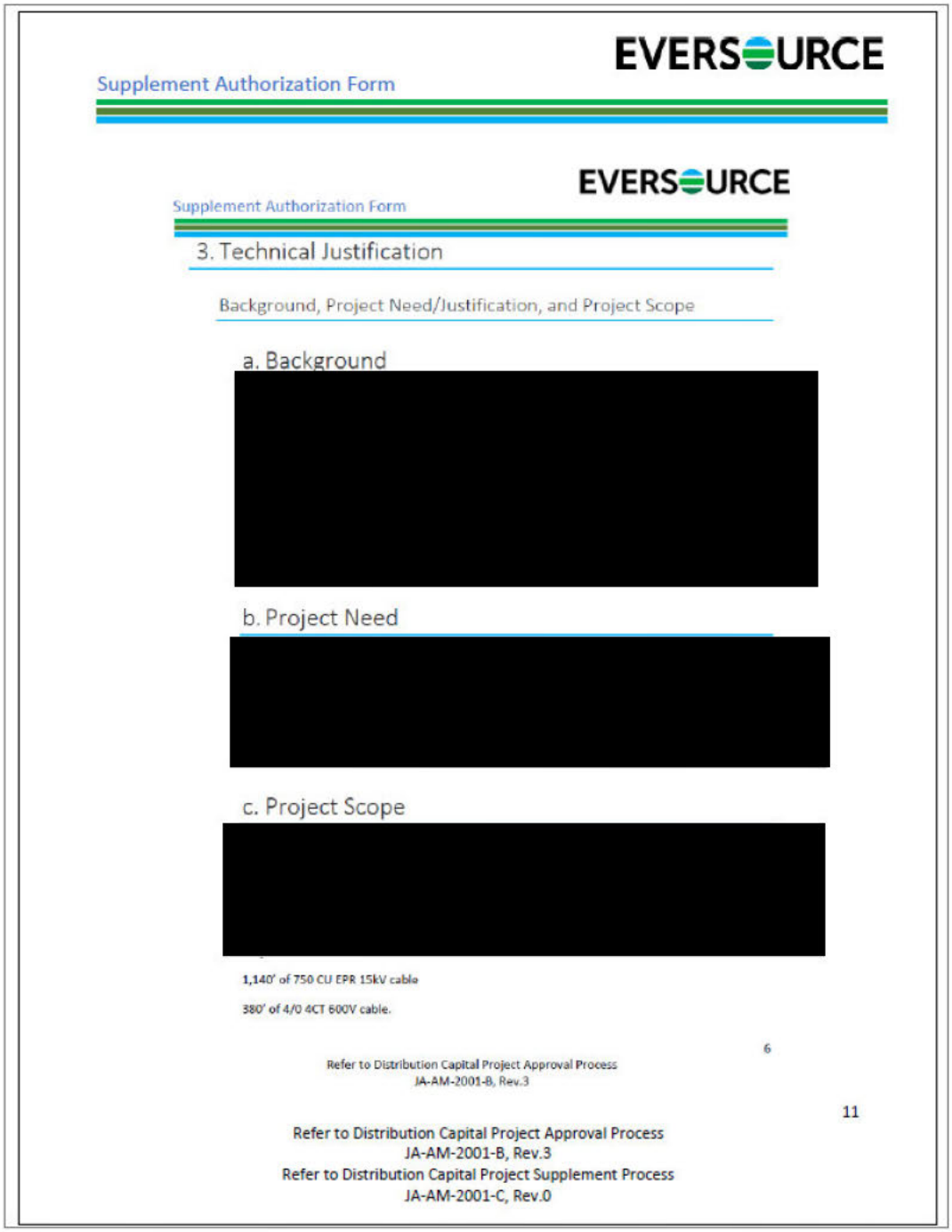
Capital Costs	2023 Actual	2024 Actual	2025 Estimate	Total
Internal Labor and Construction Equipment	2.6	14.8	57.6	75.0
Outside Services	10.0	67.1	222.1	289.2
Materials	3.5	20.2	78.5	102.3
Removals	1.8	10.3	48.9	61.0
Risk and Contingency	0.0	0.0	81.5	81.5
Other	0.0	0.2	0.6	0.8
Subtotal	**18.0**	**102.6**	**489.1**	**609.7**
Indirect Capital Costs	**2023 Actual**	**2024 Actual**	**2025 Estimate**	**Total**
Indirects/Overheads (including benefits)	12.2	144.3	350.8	507.4
Capitalized interest or AFUDC, if any	0.1	4.0	0.0	4.0
Subtotal	**12.3**	**148.3**	**350.8**	**511.4**
Total Capital Costs (Gross)	**30.3**	**250.8**	**840.0**	**1,121.1**
Project Costs (Net of Reimbursement)	**30.3**	**250.8**	**840.0**	**1,121.1**

5

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

10

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0



Supplement Authorization Form

Supplement Authorization Form

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted]

b. Project Need

[redacted]

c. Project Scope

[redacted]

1,140' of 750 CU EPR 15kV cable

380' of 4/0 4CT 600V cable.

6

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

11

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

Supplement Authorization Form

Supplement Authorization Form

4. Alternatives Considered

[redacted]

5. Project Schedule

Add any additional milestones that are pertinent to the project

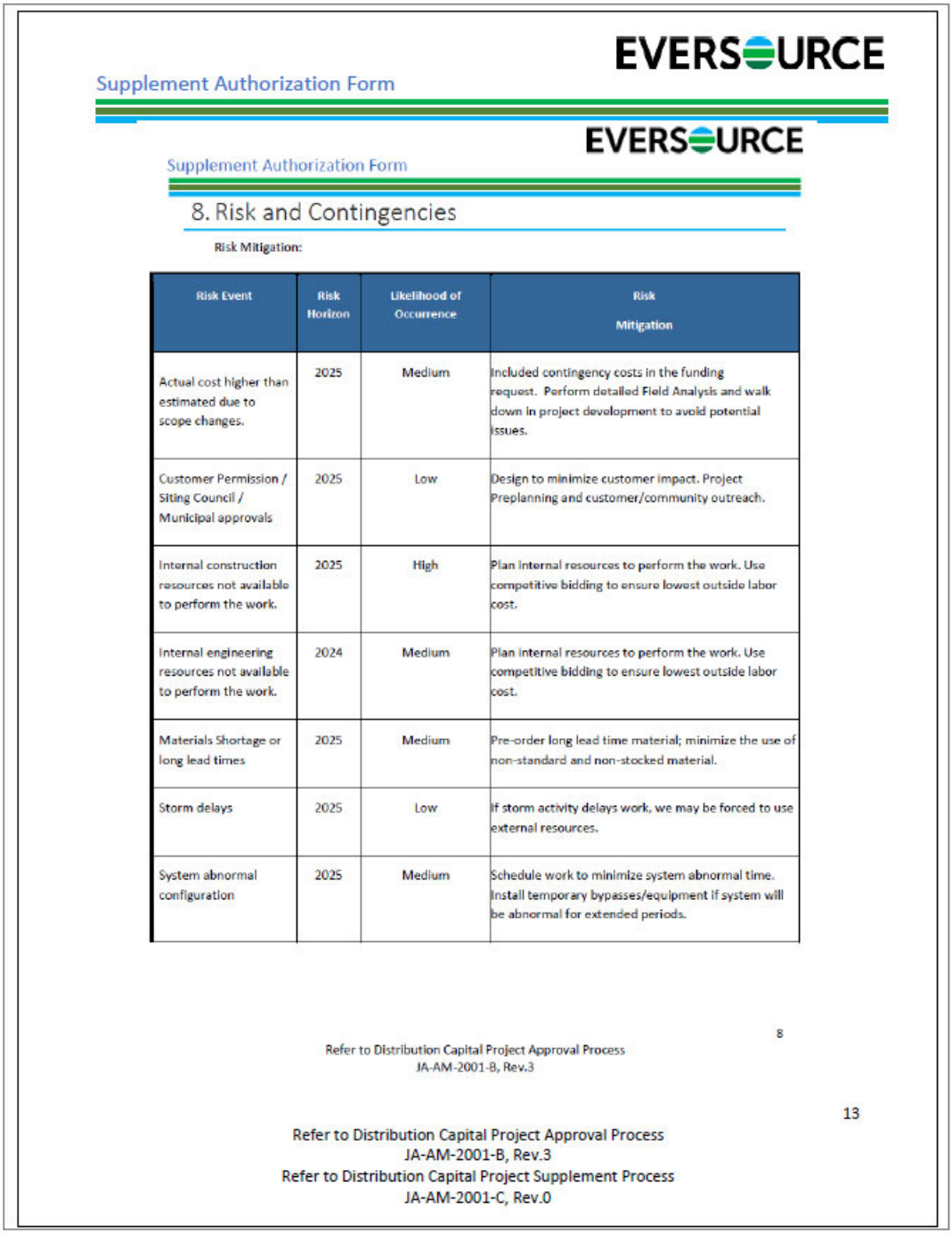
Milestone/Phase Name	Estimated Date
Partial Approval	3/30/2023
100% Engineering Completion	5/2023
Construction Start	11/15/2024
In Service Date	12/31/2025

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A



EVERSOURCE
Supplement Authorization Form

EVERSOURCE
Supplement Authorization Form

8. Risk and Contingencies

Risk Mitigation:

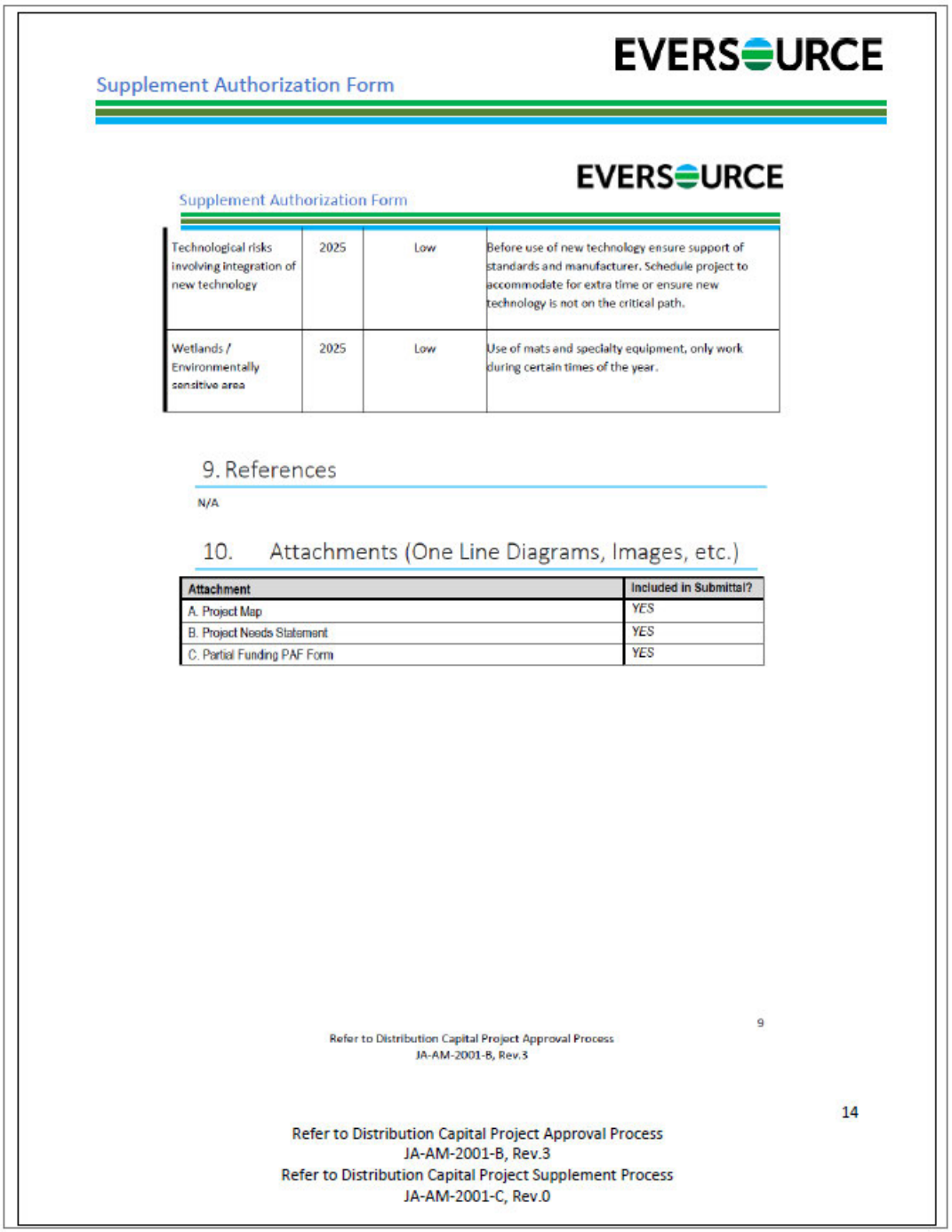
Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2025	Medium	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.
Customer Permission / Siting Council / Municipal approvals	2025	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2025	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	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2025	Medium	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2025	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2025	Medium	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.

8

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

13

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0



Supplement Authorization Form

Supplement Authorization Form

Technological risks involving integration of new technology	2025	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	2025	Low	Use of mats and specialty equipment, only work during certain times of the year.

9. References

N/A

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

Attachment	Included in Submittal?
A. Project Map	YES
B. Project Needs Statement	YES
C. Partial Funding PAF Form	YES

9

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

14

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

Supplement Authorization Form

Supplement Authorization Form

Attachment A: Project Map

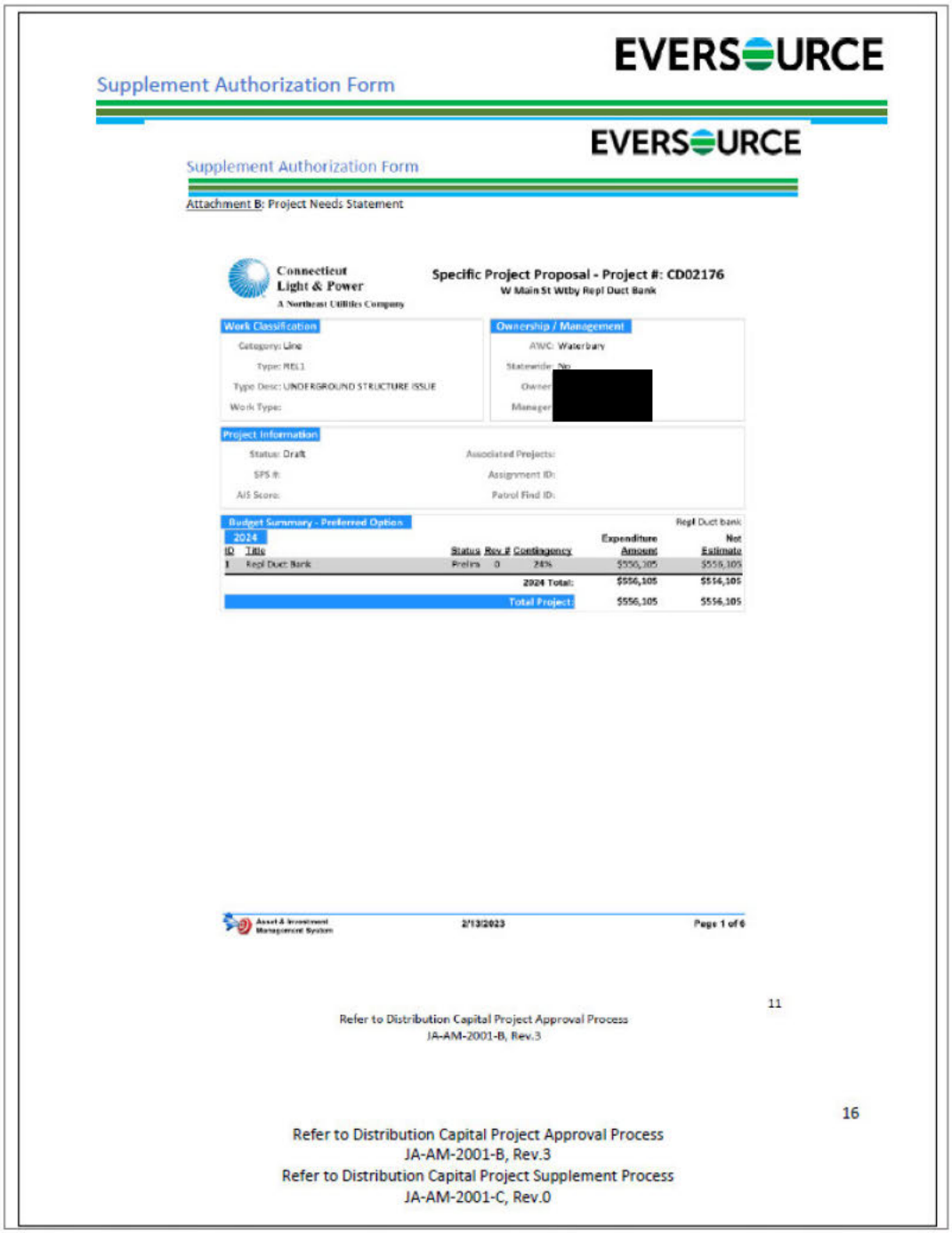


10

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

15

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0



Supplement Authorization Form

Supplement Authorization Form

Attachment B: Project Needs Statement

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02176
W Main St Wtby Repl Duct Bank

Work Classification
Category: Line
Type: REL1
Type Desc: UNDERGROUND STRUCTURE ISSUE
Work Type:

Ownership / Management
AWC: Waterbury
Statewide: No
Owner: [redacted]
Manager:

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

Budget Summary - Preferred Option — Repl Duct bank

2024 ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
1	Repl Duct Bank	Prelim	0	24%	$556,105	$556,105
				2024 Total:	$556,105	$556,105
				Total Project:	$556,105	$556,105

Asset & Investment Management System 2/13/2023 Page 1 of 6

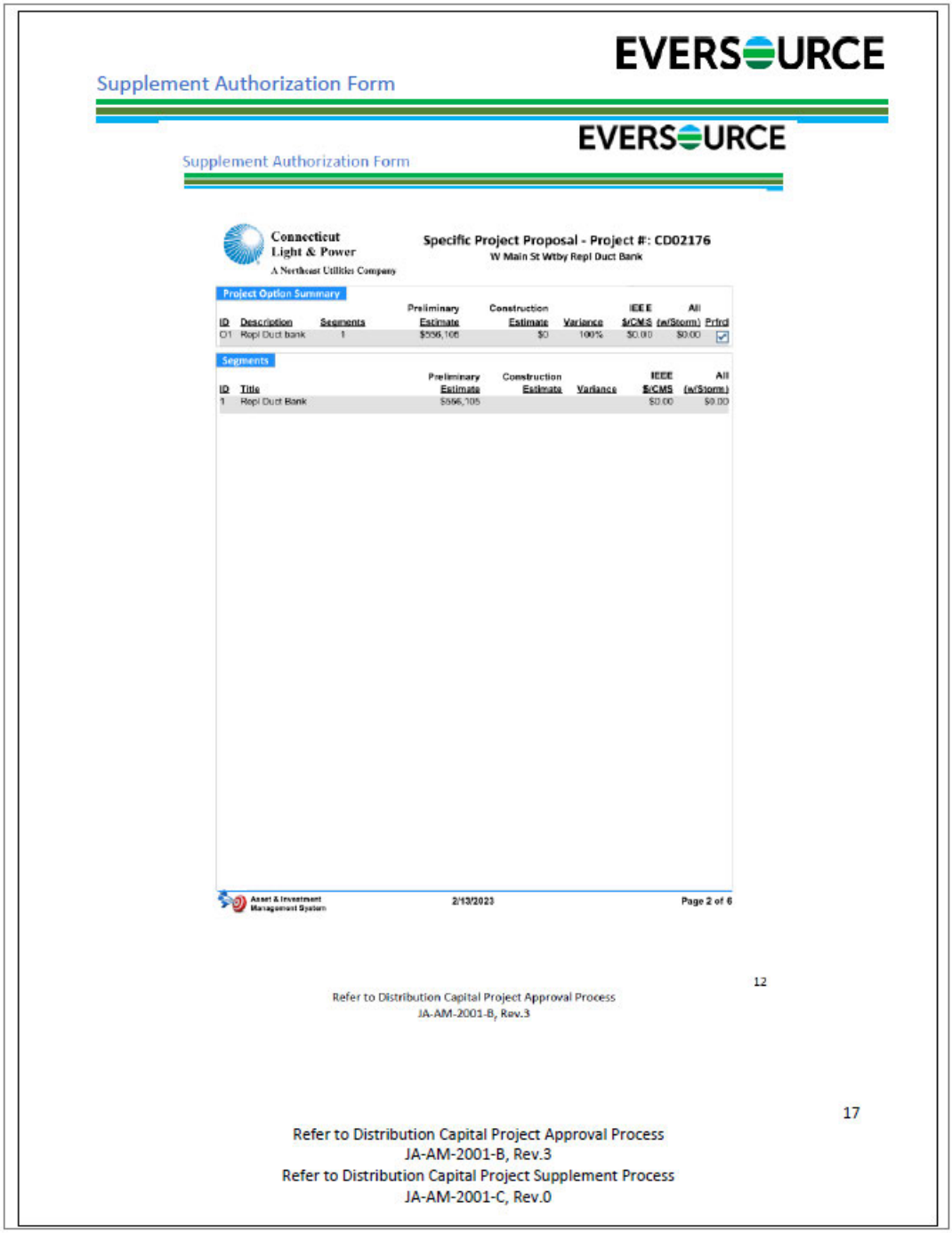
11

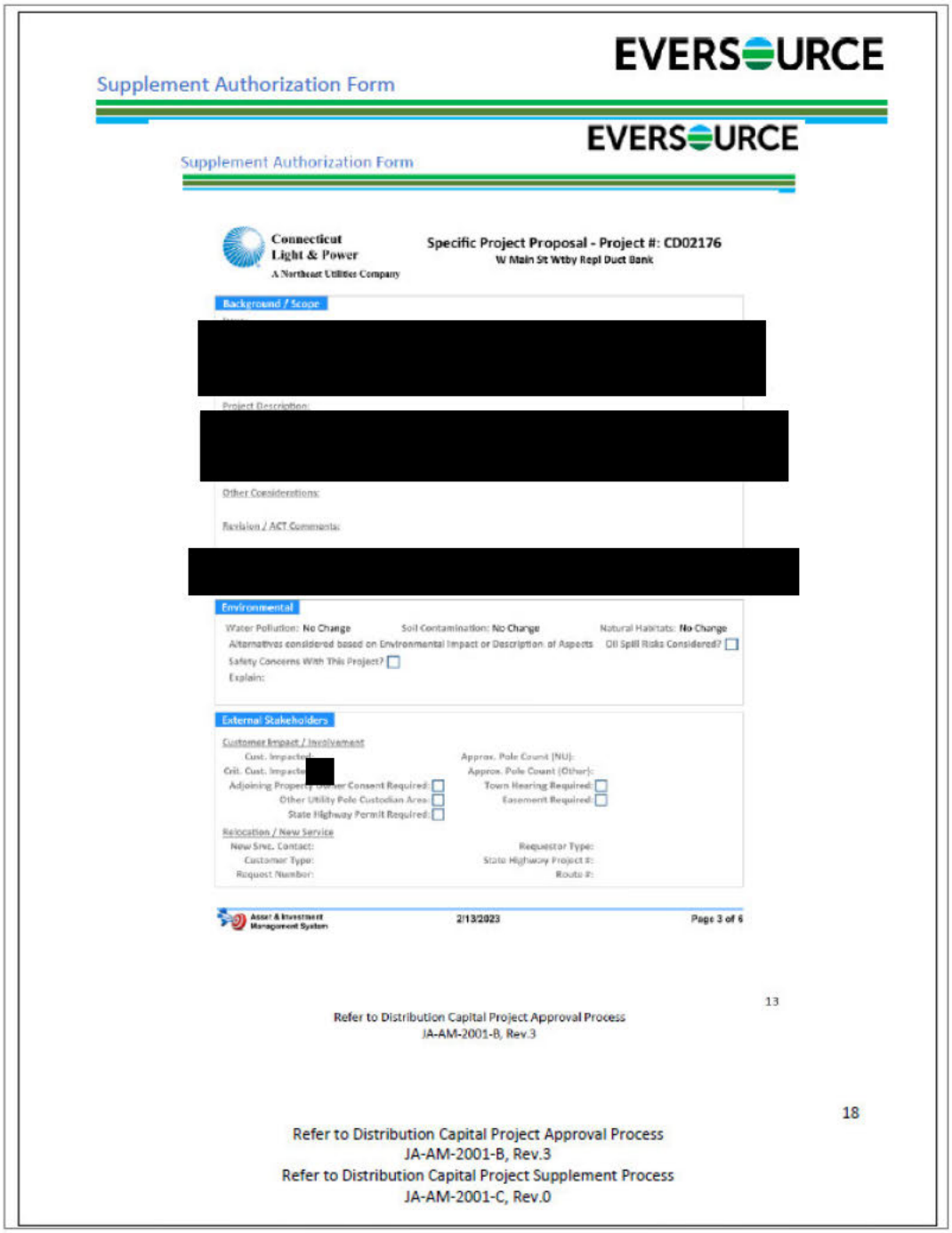
Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

16

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0


Supplement Authorization Form
Supplement Authorization Form
Connecticut Light & Power
A Northeast Utilities Company
Specific Project Proposal - Project #: CD02176
W Main St Wtby Repl Duct Bank
Project Option Summary
ID Description Segments Preliminary Estimate Construction Estimate Variance IEEE $/CMS All (w/Storm) Prfrd
O1 Repl Duct bank 1 $566,105 $0 100% $0.00 $0.00
Segments
ID Title Preliminary Estimate Construction Estimate Variance IEEE $/CMS All (w/Storm)
1 Repl Duct Bank $566,105 $0.00 $0.00
Asset & Investment Management System
2/13/2023
Page 2 of 6
12
Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
17
Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0



EVERSOURCE

Supplement Authorization Form

EVERSOURCE

Supplement Authorization Form

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02176
W Main St Wtby Repl Duct Bank

Background / Scope

[redacted]

Project Description:

[redacted]

Other Considerations:

Revision / ACT Comments:

[redacted]

Environmental

Water Pollution: No Change Soil Contamination: No Change Natural Habitats: No Change
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:
Crit. Cust. Impacted: [redacted]
Approx. Pole Count (NU):
Approx. Pole Count (Other):
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 #:

Asset & Investment Management System 2/13/2023 Page 3 of 6

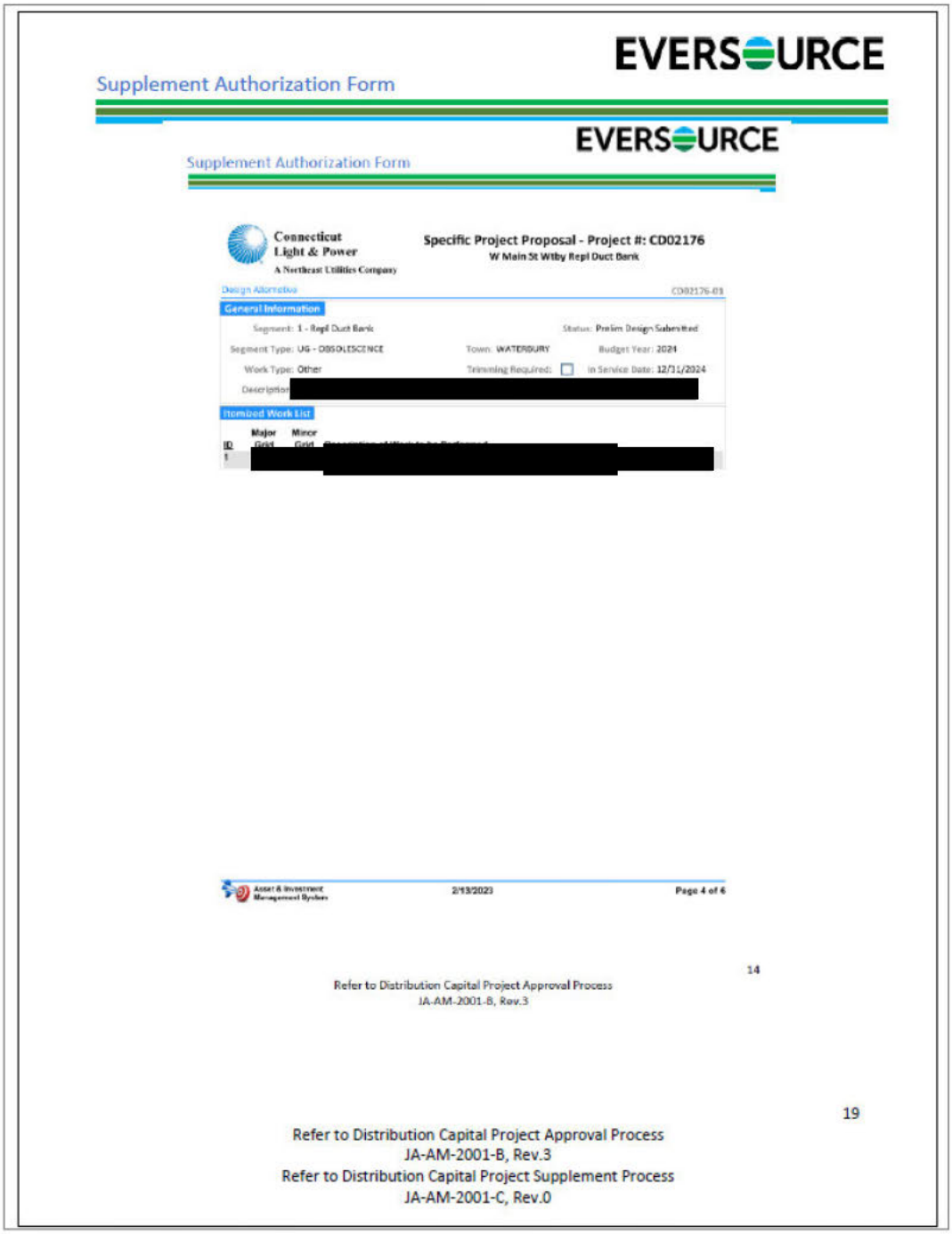
13

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

18

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0


EVERSOURCE
Supplement Authorization Form
EVERSOURCE
Supplement Authorization Form
Connecticut Light & Power
A Northeast Utilities Company
Specific Project Proposal - Project #: CD02176
W Main St Wtby Repl Duct Bank
Design Alternative
CD02176-03
General Information
Segment: 1 - Repl Duct Bank
Status: Prelim Design Submitted
Segment Type: UG - OBSOLESCENCE
Town: WATERBURY
Budget Year: 2024
Work Type: Other
Trimming Required:
In Service Date: 12/31/2024
Description
[redacted]
Itemized Work List
ID
Major Grid
Minor Grid
1
[redacted]
Asset & Investment Management Bylaws
2/13/2023
Page 4 of 6
14
Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
19
Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

EVERSOURCE

Supplement Authorization Form

EVERSOURCE

Supplement Authorization Form

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02176
W Main St Wtby Repl Duct Bank

Design Alternative CD02176-01

Estimate

Preliminary Estimate Summary	
Revision Number:	0
Contingency:	24.00%
SubTotal:	$448,472
Contingency Amount:	$107,633
Estimate:	$556,105
Reimbursement:	$0
Net Amount:	$556,105
Description:	

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Complex	16-ALL16	21,072.00
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL16	50,000.00
UG CABLE UG - Cable Removal - all cables	16-UG117	28,800.00
CONDUIT UG-Ductline-up to 12 duct - Traveled Way / Paved	16-UG137	12,608.00
UG CABLE [redacted]50 CU EPR, 3 @ 380' each	16-UG1148	69,440.00
OTHER OTHER 20% adder for contactor labor & extra 10% for UG duct work	16-ALL14	66,000.00
OTHER OTHER manhole cleaning: 2 @ $1K each.	16-ALL14	$2,000.00
UG CABLE UG - Copper Secondary in Conduit at lt cable	16-UG153	15,552.00

[redacted]

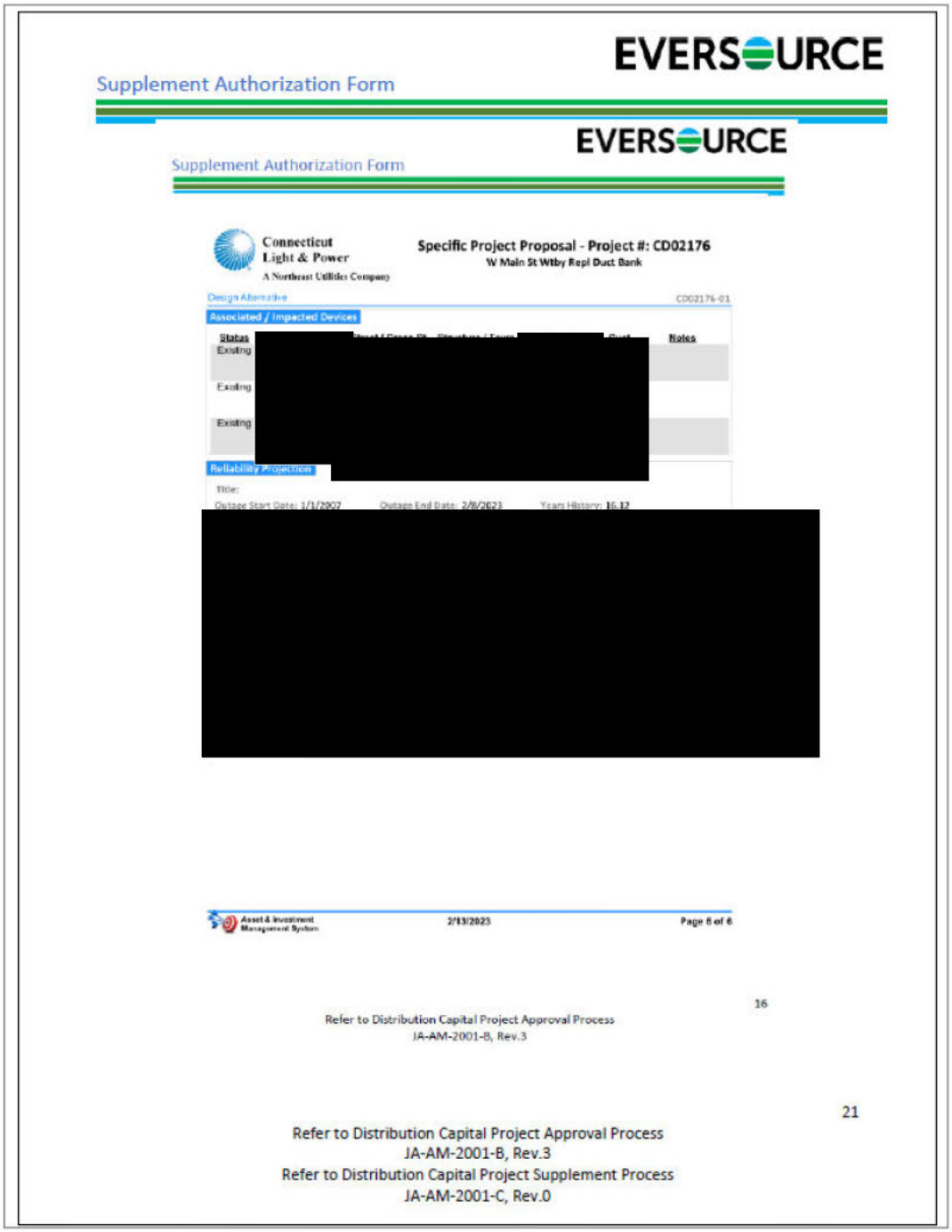
Asset & Investment Management System 2/13/2023 Page 5 of 6

15

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

20

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0


Supplement Authorization Form
Supplement Authorization Form
Connecticut Light & Power
A Northeast Utilities Company
Specific Project Proposal - Project #: CD02176
W Main St Wtby Repl Duct Bank
Design Alternative
CD02176-01
Associated / Impacted Devices
Status
Notes
Existing
Existing
Existing
Reliability Projection
Title:
Outage Start Date: 1/1/2007
Outage End Date: 2/8/2023
Years History: 16.12
Asset & Investment Management System
2/13/2023
Page 6 of 6
16
Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
21
Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

EVERSOURCE
Supplement Authorization Form

EVERSOURCE
Supplement Authorization Form

Attachment C: Partial Funding PAF Form

Operations Project Authorization Form

Project Title: W Main St Wtby Replace Duct Bank	**Project Number:** 0
Date Prepared: 02/13/2023	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator [redacted]	**Project Category:** UNDERGROUND STRUCTURE ISSUE
Project Manage [redacted]	**Project Type:** Specific
Project Sponsor [redacted]	**Capital Investment part of original Operating Plan:** No
Estimated in service date: 12/31/2023	**Emergency Related Request?** Yes
Eng./Constr. Resources Budgeted? No	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: $546K	**Authorization Type:** Initial Funding

Executive Summary

[redacted]

17

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

22

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

EVERSOURCE
Supplement Authorization Form

EVERSOURCE
Supplement Authorization Form

Project Costs Summary

Note: Dollar values are in thousands

Capital Costs	Year 2023	Total
Direct Capital Costs		
Internal Labor and Construction Equipment	$19	$19
Outside Services	$244	$244
Materials	$31	$31
Removals	$79	$79
Risk and Contingency	($28)	($28)
Other	$0	$0
Subtotal – Direct Costs	**$345**	**$345**
Indirect Capital Costs		
Indirect/Overheads (including benefits)	$199	$199
Capitalized Interest or AFUDC, if any	$2	$2
Subtotal – Indirect Costs	**$201**	**$201**
Total Gross Capital Costs	**$546**	**$546**
Customer Contribution	**$0**	**$0**
Total Net Capital Project Costs	**$546**	**$546**

Technical Justification:

Project Need, Objective and Justification:

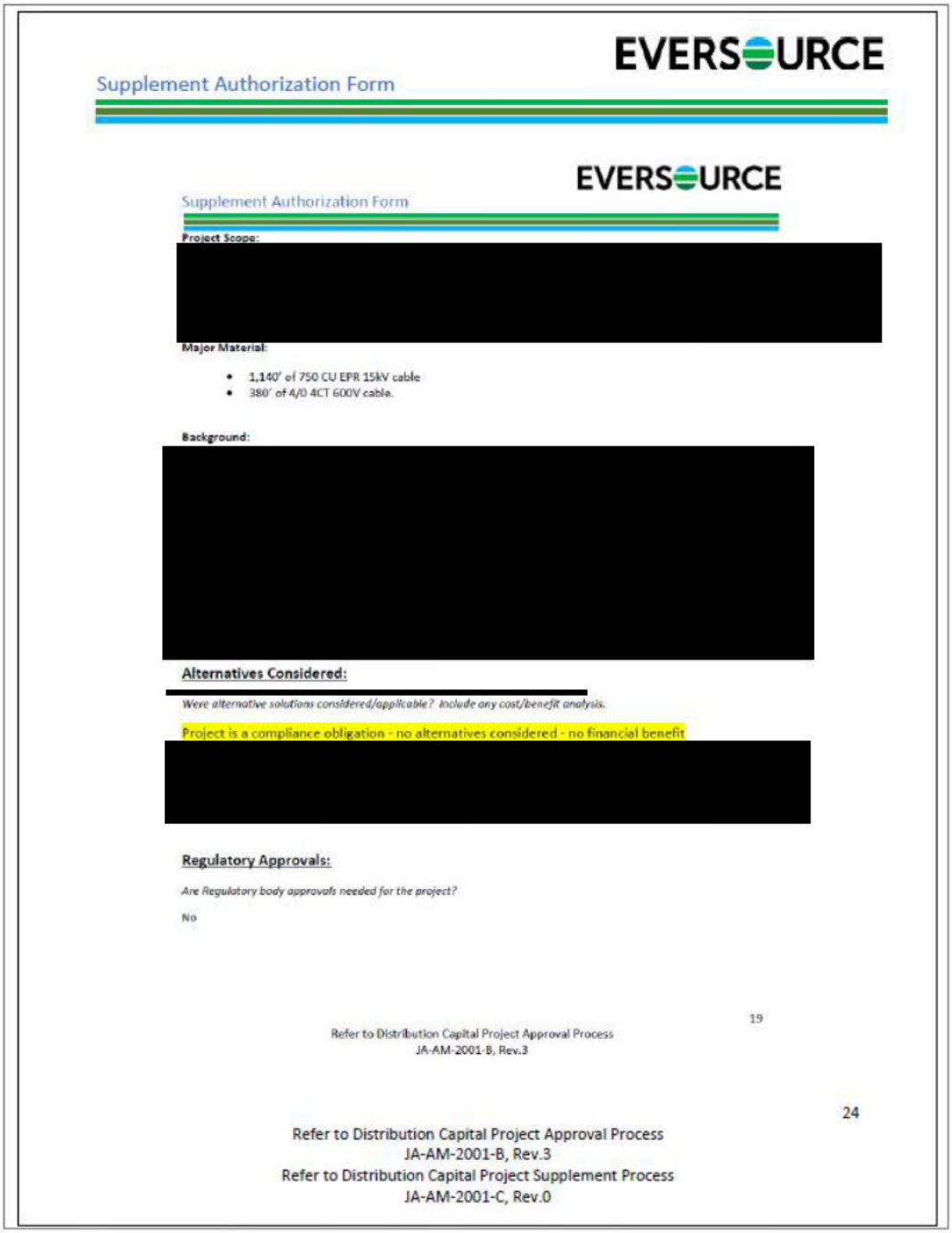
[redacted]

18

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

23

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0



EVERSOURCE

Supplement Authorization Form

EVERSOURCE

Supplement Authorization Form

Project Scope:

[redacted]

Major Material:

- 1,140' of 750 CU EPR 15kV cable
- 380' of 4/0 4CT 600V cable.

Background:

[redacted]

Alternatives Considered:

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

Project is a compliance obligation - no alternatives considered - no financial benefit

[redacted]

Regulatory Approvals:

Are Regulatory body approvals needed for the project?

No

19

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

24

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

Supplement Authorization Form

Supplement Authorization Form

Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	May 2023
Full Funding Authorization	June 2023
Construction Start	September 2023
In Service Date	December 2023

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2023	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	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2023	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.	2023	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2023	Medium	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2023	Low	If storm activity delays work, we may be forced to use external resources.

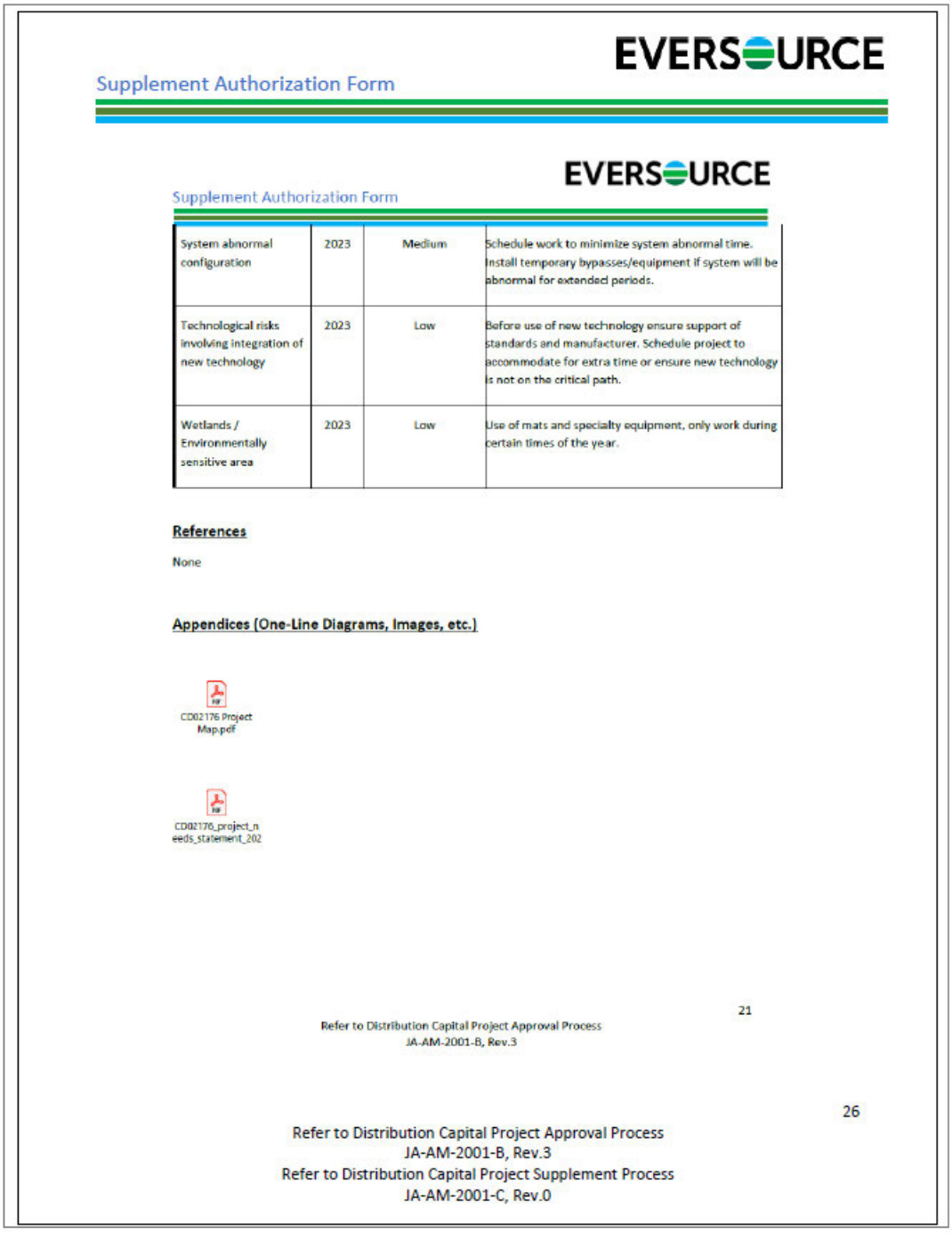
20

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

25

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0



Supplement Authorization Form

Supplement Authorization Form

System abnormal configuration	2023	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	2023	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	Low	Use of mats and specialty equipment, only work during certain times of the year.

References

None

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

CD02176 Project Map.pdf

CD02176_project_needs_statement_202

21

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3

26

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.3
Refer to Distribution Capital Project Supplement Process
JA-AM-2001-C, Rev.0