EVERSOURCE

Operations Project Authorization Form

Approved on April 27, 2023 EPAC

Link to Meeting Minutes

Project Title: [redacted]	**Project Number: CS00553**
Date Prepared: 04/03/2023	**Company: Eversource CT**
Organization: Asset Management	**Class(es) of Plant: D SS**
Project Initiator: [redacted]	**Project Category: Annual - Stations**
Managing Organization: Operations	**Schedule ID#: N/A**
Project Manager: [redacted]	**Project Type: Annual**
Project Sponsor: [redacted]	**Capital Investment part of original Op Plan: Yes**
Estimated in service date: June 2023	**Emergency Related Request? No**
Eng./Constr. Resources Budgeted? Yes	**Facility Type (check all that apply):** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Total Capital Request: $500K	**Authorization Type: Full Funding**

[1] Executive Summary

This Project Authorization Form (PAF) is requesting full funding dollar authorization in the amount of $500K to remove and [redacted]

[redacted]

[redacted]

A Scope of Work (SOW) was provided to external construction contractors in September 2021 for the substations within scope (Attachment B) and the related bid analysis process was also completed in September 2021.

Capital Annual project CS00553 – [redacted] was initiated and approved for $100K in PowerPlan on November 18, 2021. A Purchase Order (PO) was issued to an external construction contractor to perform the [redacted] also in November 2021 and following approval. The project has incurred financial spend in excess of the approved amount under APS 01 which has therefore prompted the need for the authoring and approval of this Full Funding PAF. As of March 31, 2023, approximately $282K in charges have been assigned to the work order (WO) (80139327) established under CS00553.

[redacted]

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[2] PROJECT COSTS SUMMARY

Note: Dollar values are in thousands

Line item Category	Prior Authorized	Actuals to Date	2023 to Go	2024	Total Request
1. ROW / Easements / Land Acquisition	$	$	$	$	$
2. Environmental Approvals / Permits	$	$	$	$	$
3. Outreach	$	$	$	$	$
4. Siting Approvals / Permits	$	$	$	$	$
5. Engineering / Design	$	$0	$	$	$0
6. Materials (Eversource purchased)	$	$1	$	$	$1
7. Construction (incl materials by contractors)	$70	$201	$98	$	$298
8. Testing / Commissioning	$	$	$	$	$
9. Project Mgmt. Team	$	$21	$2	$	$23
10. Removals	$20	$12	$	$	$12
11. Other	$	$	$	$	$
12. Risks	$	$	$35	$	$35
SUBTOTAL DIRECTS W/ RISKS	**$90**	**$235**	**$135**	**$**	**$370**
13. Indirects/Overhead	$5	$30	$42	$	$72
14. AFUDC	$5	$18	$25	$	$43
PROJECT TOTAL – BASELINE BUDGET	**$100**	**$282**	**$202**	**$**	**$484**
15. Contingency	$	$	$16	$	$16
TOTAL CAPITAL REQUEST	**$100**	**$282**	**$217**	**$**	**$500**
16. Reimbursables/Customer Contribution	$	$	$	$	$
PROJECT TOTAL (LESS REIMBURSABLES)	**$100**	**$282**	**$217**	**$**	**$500**
O&M	$	$	$	$	$
TOTAL REQUEST	**$100**	**$282**	**$217**	**$**	**$500**

Detail other costs, project risk items and their allocations:

Risk	Allocation
1. Weather Related Construction Delays and Overtime	$35K
Total	**$35K**

Explain unique payment provisions, if applicable:

In November 2021, a PO was issued to an external construction contractor in the amount of $275K to perform the [redacted]. In September 2022, a Field Change Directive (FCD) was received from the construction contractor in the amount of $92K to complete the [redacted].

Identify and detail any unique O&M impacts resulting from this project:

There are no unique Operations and Maintenance (O&M) impacts resulting from [redacted]

[3] TECHNICAL JUSTIFICATION

Project Need, Objective and Justification

[redacted]

[redacted]

Project Scope

[redacted]

[redacted]

Substation Equipment

Station	Device Position / Nomenclature	Device Removals *include manufacturer*	Device Additions *include manufacturer*
[redacted]	N/A	[redacted]	[redacted]

Background

[redacted]. A scope of work (SOW) was provided to external construction contractors in September 2021 for the substations within scope (Attachment B) and the related bid analysis process was also completed in September 2021.

Capital Annual project CS00553 – CT [redacted]. The project has incurred financial spend in excess of the APS 01 limits and has therefore prompted the need for the authoring and approval of this Full Funding PAF.

After construction activities began, the contractor had to demobilize as a result of adverse weather conditions.

Following the SOW issuance in September 2021, [redacted]

[redacted] which differed from what had been used by the construction contractor during the initial construction activities. As a result, an FCD was received from the construction contractor in August 2022 with pricing to complete the remaining [redacted]

[4] ALTERNATIVES CONSIDERED

Alternative 1: D[redacted] (Estimated cost $0).

[redacted]

[redacted]

Alternative 2: Continue construction activities without adhering to updated Eversource [redacted] (Estimated cost approximately equal to the Preferred Solution).

[redacted]

Alternative 3 (Preferred Solution): [redacted] (Estimated cost $500K).

[redacted]

[5] PROJECT SCHEDULE

Milestone	Scheduled Completion Date
IFR Approval	N/A
SDC Approval (for applicable projects)	N/A
Conversion of Tx development costs, 183 to 107	N/A
EPAC Partial Funding Approval	N/A
Preliminary Design Completion	N/A
Capital Annual Approved	November 2021
Start of Construction	December 2021
EPAC Full Funding Approval	April 2023
Siting Approval	N/A
Project In-Service Date (ISD)	June 2023
Project Need Date	N/A
ISO Related Milestones:	
• ISO Preferred Alternative Selected	N/A
• PAC Presentation	N/A
• TCA Submittal	N/A

[6] REGULATORY APPROVALS

Regulatory approvals will not be required to [redacted]

[7] Risk and Risk Mitigation Plans

Contingency:

A contingency allowance of $16K has been included in the estimate to account for any unanticipated costs.

Risk Mitigation:

Risk	Mitigation
1. Weather Related Construction Delays and Overtime	Unanticipated weather events may restrict the construction vendor's ability to perform the remaining construction activities. This risk cannot be avoided as this risk is associated with unpredictable weather events and associated employee reassignments in the event storm duty activation occurs. To mitigate this risk, the project team will remain in ongoing contact with substation operations and the external construction vendor as the construction remobilization date is coordinated. Furthermore, additional funds have been allocated within the Full Funding estimate.

[8] References

References
1. Field Change Directive – Construction Services Vendor
2. NEC 110.31 – Enclosure for Electrical Installations
3. NEC 250.194 – [redacted]
4. SUB 015.1 – [redacted]
5. CAT 3001 – Substation Grounding Material Catalog
6. CS00553 – CT [redacted] – Approved Capital Annual Request Form, dated 11.17.2021

[9] Attachments (One-Line Diagrams, Images, etc.)

Attachment	Included in Submittal?
A. Full Funding Cost Estimate	*YES*
B. Scope of Work – CT Substation Yard Perimeter Fence Replacement Projects	*YES*
C. P6 Schedule	*N/A*
D. Constructability Review	*N/A*

INSTRUCTIONS:
It is the responsibility of the initiator to contact the subject matter experts in the listed area disciplines to determine if the project considerations contained in this list are applicable to their project. They should fill out the checklist and determine a transition plan for the purpose of project execution. See the PAF Guide for additional instruction.

Project Checklist - Transmission & Substation Capital Project			
Project Name: [redacted]		**Project Number: CS00553**	
Facility Type: ☐BPS ☐BES ☐PTF ☐PTF non-regional ☐non-PTF ☐CIP ☒Distribution ☐General Plant			
PLANNING			
Is a NX-9 required?	No		
Is an ISO-NE PAC presentation required?	No		
ISO-NE Presentation Date (if completed):	N/A		
Cost in ISO-NE Presentation ($M) (if completed):	N/A		
Is a PPA required?	No		
ISO-NE Approval Date (if completed):	N/A		
Is a TCA Application Required?	No		
TCA Submittal Date (if submitted):	N/A		
Cost in TCA Submittal ($M) (if submitted):	N/A		
Enter ISO-NE RSP / Asset Condition ID, if assigned:	N/A		
PLANNING/PROTECTION & CONTROLS			
Are RAS/SPS/UVLs affected?	No		
OPERATIONS			
Outage Required?	☐ Primary Equipment (Power Transfer)	☐ Secondary Equipment (P&C only)	☒ Outage Not Required
Do SCLL Conditions Exist?	No		
Has an outage schedule been approved?	NR		
Are Operations & Maintenance procedures/training required?	No		
STANDARDS			
Does the project include standard equipment and designs?	Yes		
SUBSTATION ENGINEERING			
Does this impact Revenue Metering	No		
Is preliminary short circuit/ breaker duty analysis required?	No		
Are there any changes to the baseline audible noise?	No		
Is there an impact to the existing ground grid?	No		
Is a Transient Over Voltage (TOV) analysis required?	No		

Project Checklist - Transmission & Substation Capital Project	
Project Name: [redacted]	**Project Number: CS00553**
P&C ENGINEERING	
OP-22 - Are PMUs and DDR required?	No
If BPS, is an NPCC Directory #4 presentation required?	No
Are ISO-NE OP-24 Appendix B updates necessary?	No
TRANSMISSION LINE ENGINEERING	
Are there any changes that affect the baseline EMF?	No
Are there any changes that affect the baseline EMI?	No
SITING	
Has Siting reviewed this project?	No
Name of Siting contact:	N/A
Is a Siting filing required? *(If yes, list in regulatory approvals section)*	No
PERMITTING	
Is there any permitting required? *(If yes, list in regulatory approvals section)*	No
PROJECT SERVICES (OUTREACH) and ROW WORK COORDINATION	
Has Project Services reviewed this project?	No Choose an item
Name of Project Services contact:	N/A
What is the level of outreach expected?	None
Is any part of this project in an Environmental Justice Community?	No
Has ROW Coordination reviewed this project?	N/A
Is this project coordinating with other existing scheduled work?	No
INITIATOR	
Has a field constructability review been completed?	NR
INVESTMENT RECOVERY	
Does the project require development of an Investment Recovery plan?	No
COST ESTIMATING	
What team/firm prepared the cost estimate?	Other (specify below)
Name of the person who prepared the estimate:	[redacted] – Asset Management
Was the estimate reviewed by Eversource Estimating?	No - Indirects Only – [redacted]

Instructions:
1. Input the project type info into the green cells on the Overall summary tab / answer escalation question
2. Input direct costs (DOLLARS AMOUNTS) and customer contribution (if applicable) in the green highlighted cells for the appropriate company which are separate labor / green labor
3. Input customer contribution as a negative number
4. T vs. S and Line work and station work have different loader rates so make sure you fill out the correct template section of each tab
5. Input years in green cells on overall summary tab, they then flow thru to the other tabs.

Template version: rev 01

D - Station Work

WBS Code	WBS Description	Actuals to Date	2021		2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	Costs													
	Electronics Interbid													
1	ROW / Easements / Land purchases													
2	Environmental Approvals / Permits													
3	Outreach													
4	Bldg Approvals / Permits													
5	Engineering / Design	$ 181												
6	Materials	$ 1,356												
	Construction			Primarily CR [redacted] to [redacted] line (per 1559 quote signed 09.30.21). [redacted]										
		$ 8,256	$ 8,410	Remainder from ASP10 - 42 Kingly SS PP PAP estimate dated 03.17.23 (estimate C-23-06).										
7				Formerly CR [redacted] to [redacted] line. $1,124.										
8	Testing / Commissioning													
9	PMT Project Mgmt Team													
10	Removals	$ 344												
11	Other													
12	Risks													
13	Contingency													
	Outside vendor or contractor													
1	ROW / Easements / Land purchases													
2	Environmental Approvals / Permits													
3	Outreach													
4	Bldg Approvals / Permits													
5	Engineering / Design													
6	Materials													
7	Construction	$ 187,460	$ 63,524	Quote for remaining services (per 1559 quote signed 09.30.23).										
8	Testing / Commissioning													
	PMT Project Mgmt Team	$ 30,784	$ 3,400	Piloted A&E [redacted] roles - PP PAP and closeout. Rate taken from ASP10 - 42 Kingly SS PP PAP estimate dated 03.17.23 (estimate C-23-06).										
9														
10	Removals	$ 11,440												
11	Other													
12	Risks		$ 10,000	Primarily 7% of Project Total Indicative of all Actuals, Directs, and Indirects. Rate taken from ASP10 - 42 Kingly SS PP PAP estimate dated 03.17.23 (estimate C-23-06).										
13	Contingency		$ 10,000	Primarily 3% of Project Total Indicative of all Actuals, Directs, Risks, and Indirects. Rate taken from ASP10 - 42 Kingly SS PP PAP estimate dated 03.17.23 (estimate C-23-06). Formerly 3% of [redacted] (\$66,844 * .03). \$2,005.34									
		$ 234,866	$ 190,834		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 565,240
	Escalation (if not included above)													
	Escalation rates - Nonunion Labor													
	Escalation rates - Unionized labor													
	Escalation rates - Materials													
	Electronics Interbid													
1	ROW / Easements / Land purchases	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Environmental Approvals / Permits													
2		$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
3	Outreach	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
4	Bldg Approvals / Permits	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
5	Engineering / Design	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
6	Materials	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
7	Construction	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
8	Testing / Commissioning	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
9	PMT Project Mgmt Team	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
10	Removals	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
11	Other	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
12	Risks													
13	Contingency													
	Outside vendor or contractor													
1	ROW / Easements / Land purchases	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
2	Environmental Approvals / Permits	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
3	Outreach	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
4	Bldg Approvals / Permits	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
5	Engineering / Design	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
6	Materials	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
7	Construction	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
8	Testing / Commissioning	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
9	PMT Project Mgmt Team	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
10	Removals	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
11	Other	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
12	Risks	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
13	Contingency	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Escalated costs													
	Electronics Interbid													
1	ROW / Easements / Land purchases	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
2	Environmental Approvals / Permits	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
3	Outreach	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
4	Bldg Approvals / Permits	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
5	Engineering / Design	$ 181	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
6	Materials	$ 1,356	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
7	Construction	$ 8,256	$ 8,410		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
8	Testing / Commissioning	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
9	PMT Project Mgmt Team	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
10	Removals	$ 344	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
11	Other	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
12	Risks	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
13	Contingency	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Outside vendor or contractor													
1	ROW / Easements / Land purchases	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
2	Environmental Approvals / Permits	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
3	Outreach	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
4	Bldg Approvals / Permits	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
5	Engineering / Design	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
6	Materials	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
7	Construction	$ 187,460	$ 63,524		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
8	Testing / Commissioning	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
9	PMT Project Mgmt Team	$ 30,784	$ 3,400		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
10	Removals	$ 11,440	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
11	Other	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
12	Risks	$ -	$ 10,000		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
13	Contingency	$ -	$ 10,000		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
		$ 234,866	$ 190,834		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 565,240
	Costs													
	Labor (Pre/PC/IS/Svc/Outreach/Eng)	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Labor (Reg/Const/Test)	$ 8,737	$ 8,410		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Materials	$ 1,356	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Outside Services	$ 227,660	$ 64,724		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Other	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Risks	$ -	$ 10,000		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Contingency	$ -	$ 10,000		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
	Total Direct Costs	$ 234,454	$ 193,634		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 565,240
	Customer Contribution				$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	Indirect Costs													
	Non Production (2027)	$ 664	17.0%	$ 532	17.0%	$ -	17.0%	$ -	17.0%	$ -	17.0%	$ -	17.0%	$ 1,926
	Payroll Benefits (2028)	$ -	44.0%	$ 3,748	44.0%	$ -	44.0%	$ -	44.0%	$ -	44.0%	$ -	44.0%	$ 3,748
	General Service (2029)	$ 4,485	80.0%		80.0%	$ -	80.0%	$ -	80.0%	$ -	80.0%	$ -	80.0%	$ 4,485
	MEW (2030)	$ 11,417	6.0%	$ 8,782	6.0%	$ -	6.0%	$ -	6.0%	$ -	6.0%	$ -	6.0%	$ 17,647
	P&M (2016,2025, 2026)	$ 8,000	34.0%	$ 34,079	34.0%	$ -	34.0%	$ -	34.0%	$ -	34.0%	$ -	34.0%	$ 54,510
	AMD (2026)	$ 3,864	1.5%	$ 1,641	1.5%	$ -	1.5%	$ -	1.5%	$ -	1.5%	$ -	1.5%	$ 4,139
	Lobby Rent					$ -		$ -		$ -		$ -		
	Union Init rate (2027)	$ 124	6.0%	$ 99	6.0%	$ -	6.0%	$ -	6.0%	$ -	6.0%	$ -	6.0%	$ 130
	Vehicles (2026)	$ 500	34.0%	$ 1,518	34.0%	$ -	34.0%	$ -	34.0%	$ -	34.0%	$ -	34.0%	$ 1,650
	Total Indirect Costs	30,799		42,396										73,195
	Total Costs with SF&D	265,253		236,030										501,283
	AFUDC rate		8.50%		8.50%	8.50%	8.50%	8.50%	8.50%	8.50%	8.50%	8.50%	8.50%	
	AFUDC	$ 16,054		24,456										42,509
	Total	281,308		260,487										543,792

Inq. 2244 CT SS FENCE REPLACEMENT PROJECT

SCOPE OF WORK

General

[redacted]

All work is to be performed in accordance with the terms and conditions of the Eversource Energy Service Company (hereinafter referred to as "Owner") and Contractor's 2021 T&D Substation Electrical Construction MSA agreement, as amended.

Work under this Contract document shall be performed in accordance with the accompanying Technical Specifications, Scope of Work, project specifications, and drawings which show the nature and extent of the work. Owner reserves the right to make changes in design, route, and location of facilities to be installed.

1. Scope of Work

1.1 [redacted]

1.2 [redacted]

[redacted]



1.3 Prior to performing any excavation work, the Contractor shall contact Call-Before-You-Dig and assure all appropriate clearances. If Contractor uses a power auger, CBYD must be contacted prior to use to mark out existing, energized conduit/power cables.

[redacted]

2.0 **Drawings**

The following substation drawings are provided for reference purposes only. The maps/prints contain pdfs of each of the substation's grounding and conduit plans. [redacted]

[redacted]. Contractor will need to follow the specifications and standards included in this request for proposal under Section 3. of this Scope of Work.



3.0 **Contract Documents and Specifications**

The following Contract Documents associated with the scope of work include, but are not limited to the following documents:

1. Attachment 1 - SUB 015 12/15/2006 [redacted]
2. Attachment 2 - SUB 115 08/23/2018 [redacted] (for informational purposes)
3. Attachment 3 - SUB 014.2 12/05/2018 Substation Ground Grid Physical Electrical Design Criteria
4. Attachment 4 – Change Order Request & Authorization Form
5. Attachment 5 – SMS-POL-005 Rev 1 05-01-2021 Contractor Safety
6. Attachment 6 – Substation Name and Address
7. Attachment 7 – Excavation and Fencing Eversource Approved Contractors
8. Attachment 8 – Contractor Daily Work Report
9. Attachment 9 – Weekly Project Status Report
10. Attachment 10 – AIA G702 and G703 Forms
11. Attachment 11 – SS Gate Quantity and Size Summary
12. Attachment 12 – Drawings

The above provides a summary of the project work scope; however, the Contractor is responsible for reviewing the drawings and project specification to clearly determine the full project work scope.

4.0 **Materials**

[redacted]

5.0 Schedule:

[redacted]

6.0 Project Owner

The project owner is the Eversource Energy Service Company. The owner's representative is:

[redacted]
Senior Supervisor Substation
Cell: [redacted]

7.0 Safety

The Contractor shall furnish their safety plans specific to this project and shall always comply with the program. Strict Compliance with OSHA 29 Part 1926 is required. The contract construction site will be designated a hard hat area.

The Contractor will comply with all OSHA regulations. Contractor selection of any protective system that must be sloped, shored, or sheeted shall be included in the Contractor's safety program. Material Safety Data Sheets (MSDS) for any product intended for use on this project shall be available.

Contractor will comply with Owner's SMS-POL-005 Rev 1 05-02-2021 Contractor Safety document (Attachment 5).

8.0 Environmental

The Contractor shall furnish their environmental plans specific to this project and shall always comply with the program. Strict Compliance with CT DEP provisions to include General Permit for Contaminated Soil and /or Sediment Management (Staging and Transfer)

9.0 **Reports**

The Contractor may be required to fill out a weekly job report which includes, but is not restricted to, a summary of personnel and work duties on the job, basic work accomplished, claims for extras and any particular comments which may have an effect upon job progress.

The Contractor shall complete any special reports supplied by the Owner, such as accident report, if the occasion arises.

10.0 **Storage Area at Site**

The Contractor may store his material and equipment at the site, providing it will not interfere with other trades working in the vicinity, block/impede normal operations of substation operations personnel and or equipment.

11. **Pricing**

11.1 All work will be performed on a time and material not to exceed basis using Contractor's rates on file with Owner under the 2021 T&D Substation Electrical Construction MSA agreement, as amended, unless other pricing arrangements are agreed upon by both the Contractor and the Owner.

11.2 If there are out of scope items during the course of construction, they must be approved by Owner prior to the start of Work and documented on the Change Order Request and Authorization Form (Attachment 4). All costs incurred beyond a substation's not to exceed dollar amount must have the written pre-approval by the Owner Representative in order to be considered for reimbursement.

11.3 All work will be bid in accordance with the Proposal Form attached.

11.4 Owner reserves the right to add and delete work scope, as required.

11.5 Contractor will identify on the Proposal Form the names of fencing and excavation contractors that will perform Work as a subcontractor to Contractor.

12.0 Invoicing

12.1 No mobilization/demobilization cost(s) are allowed under the RFP. Contractor Resources will job site report to each substation location.

12.2 The Contractor shall submit a copy of the Owner's form entitled "Contractor Daily Work Report" (Attachment I) or Owner-approved equivalent daily time sheets for all work performed on a Time & Material (T&M) basis showing labor, equipment, and material, covering all expenses incurred in connection with the performance of work. This invoice shall be accompanied by supporting documents, and any other information necessary to allow the Owner's Representative to verify the accuracy of the statement. After verification, the approved amount will be paid to the Contractor.

12.3 Reimbursement for subcontractor services, as well as material supplied by Contractor, shall be at the rate charged by the subcontractor plus Contractor's subcontractor markup rate on file Signed time sheets, subcontractor invoices, delivery receipts or other documentation shall be submitted with subcontractor's invoice.

12.4 Contractor shall invoice on a bi-weekly basis. Contractor shall invoice each substation separately, and not comingle invoices. The Contractor shall invoice out-of-scope work separately from in-scope amounts. Please submit one invoice each substation at the end of the Work.

13.0 **Contrator Safety & Hazard Plan**

The Contractor Safety & Hazard Assessment Plan will complement existing Contractor safety and health programs by providing a Site specific and documented job planning safety and health review of the applicable Work, and must include, at a minimum, the following:

(a) *Documentation of the Job Sequence*: Break the Project into job segments and list the major steps and sequence of events for the Project. This should be scaled to the complexity of the job.

(b) *Documentation of Major Hazards*: List the major high risk hazards, such as electrical (contact, flash), gravity (fall, falling objects), kinetic (vehicle and equipment operation) and mechanical (rigging, tools and equipment) associated with the project.

(c) *Documentation of Barriers*: List the barriers and controls that will be utilized to manage the major hazards identified. Examples of Control and Safety Barriers:

Eliminate the hazard
Install physical barriers

Install warning devices
Use written procedures
Provide supervision
Minimize energy to safe levels
Wear protective equipment
Minimize error potential
Provide training
Identify hazards only

(d) *Communication and Monitoring of the Job Plan*: Provide the elements of daily job plan/tailboard conference. Explain how safety performance will be monitored.

(e) *Environmental Concerns*: Identify any environmental concerns that may be encountered. Explain how environmental concerns are communicated to Contractor employees and SubContractors.