Operations Project Authorization Form

Project Title: CDOT 96-204 – Intersection Improvements on [redacted]	**Project Number:** CD01503
Date Prepared: 02/27/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** Line Relocations/Act of Public Authority
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** No
Estimated in service date: 12/31/2022	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: $1,191,145 (50% Reimbursement $595.5k)	**Authorization Type:** Full Funding

Executive Summary

This project received preliminary funding on December 10, 2020, for $785,912 (capital) with 50% Reimbursement of $426,927(including O&M). Taking into account future invoices based on increased NTX bids, and the work completed in the field so far, final funding is now being requested at $1,191,145. This represents an increase of $405,233 or 152% on the initial funding request. The main contributors to this variance are as follows:

- **Central CT Cable** -
  Additional splicing, broken and impassible ducts, excessive water in manholes and pumping.

- **Stone Construction** -
  Civil work was required to go over 11 feet deep around many unmarked utilities. Additional manhole was discovered that was buried under asphalt. In order to install duck bank rerouting the lines and working at a much deeper depth than normal. Additional manpower and material.

- **OH work**
  Field Training apprentices were on site two months which is an incremental internal labor cost of the project.

- **Clean harbor**
  Required to clean out manholes #13 & #14

The project was previously presented for initial approval as follows:

The State of Connecticut has contacted Eversource concerning CDOT Project 96-204. This project affects Eversource facilities on [redacted] The CDOT scope for this project is to address congestion and improve traffic operations at key junction areas between the major commuter [redacted]

and [redacted] This will require Eversource to relocate OH and UG facilities. Since [redacted], the work is 50% reimbursable. Attached below is the guideline for reimbursements for Eversource facility relocations as determined by the legal department. This project is considered to be under trigger project #1 in the attached table.



Utility relocation cost memo.pdf

Project Costs Summary

Note: Dollar values are in thousands

Capital Costs	Year 2022	Estimated Future Spend	Total
Internal Labor and Construction Equipment	$120.1	$0.0	$120.1
Outside Services	$190.0	$101.3	$291.3
Materials	$155.9	$0.0	$155.9
Removals	$72.8	$25.6	$98.4
Risk and Contingency	$0.0	$16.3	$16.3
Other	$9.5	$0.0	$9.5
Subtotal – Direct Costs	**$548.3**	**$143.1**	**$691.5**
Indirect Capital Costs			
Indirect/Overheads (including benefits)	$392.0	$90.1	$482.0
Capitalized interest or AFUDC, if any	$17.6	$0.0	$17.6
Subtotal – Indirect Costs	$409.6	$90.1	$499.7
Total Gross Capital Costs	**$957.9**	**$233.2**	**$1,191.1**
Less Total Customer Contribution	**$-478.9**	**$-116.6**	**$-595.5**
Total Net Capital Project Costs (Net of Reimbursement)	**$479**	**$116.6**	**$595.6**

Technical Justification:

Project Need Statement:

The State of Connecticut has contacted Eversource concerning CDOT Project 96-204. This project affects Eversource facilities on [redacted] The CDOT scope of the project is to address congestion and improve traffic operations at a key junction area between the major commuter [redacted] and [redacted] This will require Eversource to relocate OH and UG facilities.

Project Objectives

The objective of this project is to relocate our OH and UG facilities on [redacted] as requested by the State DOT.

Project Scope

[redacted]

Major Material:

1. 13,500’ of 556 AAC 175 MIL Covered Wire
2. 4,710’ of 1/0 AL TPX
3. 1000’ of 15KV 1000 CU EPR
4. 24 Eversource poles
5. 500’ of 500 CU EPR 4CT Secondary Cable w/ 4/0 neutral
6. 450’ of 5” conduit

Background / Justification
[redacted] is requesting Eversource to relocate facilities in conflict with [redacted] Project [redacted]

Business Process and / or Technical Improvements:
All permanent construction will be in accordance with the latest Eversource standards.

Alternatives Considered with Cost Estimates

No Alternatives

Project Schedule

Milestone/Phase Name	Estimated Completion Date
Initial Funding Authorization	December 2020
Construction Begin	April 2022
Construction End	December 2022

Regulatory Approvals

None

Risks and Risk Mitigation Plans

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2022	Medium	Included contingency costs in the funding request. Perform detailed Field Analysis and walk down in project development to avoid potential issues.

Customer Permission / Siting Council / Municipal approvals	2022	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach
Internal construction resources not available to perform the work.	2022	High	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Internal engineering resources not available to perform the work.	2022	Medium	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Storm delays	2022	Low	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2022	Low	Schedule work to minimize system abnormal time. Most of this work will require system to be abnormal for any extended period of time.

References
None

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

Project Maps:

CDOT 96-204 Map.pdf
CD01503 - CDOT 96-204 OH Map.pdf
CD01503 - CDOT 96-204 Civil Map.pdf
UG WR CDOT 96-204 WR 3360701.
[redacted] Primary Circuit Map Existing

Oneline:

CD01503 - CDOT Project 96-204 Oneli

Need Statement:

CD01503_project_needs_statement.pdf

Initial Funding PAF:

[redacted]3%20-%20C
[redacted]%20Project%20