EVERSOURCE

Project Approval Form

Project Title: New Service – [redacted]	Project Number: CD02016
Date Prepared: 03/11/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** SPECIFIC PROJECTS-NEW SRVCE
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** Yes
Project Manager: [redacted]	**Emergency Related Request?** No
Project Sponsor: [redacted]	**Facility Type** (check all that apply)**:** ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Required in service date: 03/31/2024	
Total Capital Request: $1,082.1K (CIAC: $388.0K)	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of **$1,082.1K** which is 118.7% of the partial funding capital estimate of $912.0K. There is no scope change on the project. The variance between the full funding and partial funding estimate is due to the underestimated labor and material charges. The legacy estimating units used to produce the partial funding estimate are about 30% lower than the estimates used today, which were updated to reflect increased labor & material costs.

The total capital cost of this job is partially offset by a customer contribution of **$388K.**

The Original Project was presented as follows:

- *A new customer, will be constructing a new 19-story residential/commercial building at [redacted] The building will consist of 408 residential apartment units from floors 1 through 17. Spaces for parking garage, amenities, retail units, offices, storage etc. will be located throughout the footprint of the building. The total area of the building is 692,901 sf.*
- [redacted]

- [redacted]

1.	*Transformers*	*$14,632.00*
2.	*Traffic control*	*$5,000.00*
3.	*Switches*	*$355,983.71*
4.	*Tax Liability*	*$30,049.26*
		$405,664.97

- *Location Information:*
- *Division: Western*
- *District: Stamford*
- *City: Stamford*

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2024	Year 2	Year 3+	Total
Internal Labor and Construction Equipment	134.4	0.0	0.0	134.4
Outside Services	3.9	0.0	0.0	3.9
Materials	436.2	0.0	0.0	436.2
Removals	28.5	0.0	0.0	28.5
Risk and Contingency	75.5	0.0	0.0	75.5
Other	0.0	0.0	0.0	0.0
Subtotal	**678.6**	**0.0**	**0.0**	**678.6**

Indirect Capital Costs	2024	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	403.5	0.0	0.0	403.5
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal	**403.5**	**0.0**	**0.0**	**403.5**
Total Capital Costs (Gross)	**1,082.1**	**0.0**	**0.0**	**1,082.1**

Less Total Customer Contribution	**(388.0)**	**0.0**	**0.0**	**(388.0)**
Project Costs (Net of Reimbursement)	**694.1**	**0.0**	**0.0**	**694.1**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

A new customer is requesting service to a new 19-story residential/commercial building at [redacted] in Stamford. There will be 1 building that will have a total of 408 apartment units with other space such for parking garage, amenities, retail units, office space, storage space, etc.

[redacted]

b. Project Need

[redacted]

c. Project Scope

[redacted]

To feed the new building the project proposes the following under preferred option 1.

[redacted]

[redacted]

Major Material:

- 2500' 1000 Cu
- 1200' 500 Cu
- 1200' 4/0 Cu
- 1 PME type 9/9 switchgear.
- 5 Transformers – 2 x 2000 (277/480) & 3 x 1000 (120/208).

4. Alternatives Considered

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

5. Project Schedule

Milestone/Phase Name	Estimated Date
Partial Approval	June 2023
100% Detailed Engineering Completion	May 2023
Fully Funded	Aug 2023
Construction Start	Jan 2024
In Service Date	March 2024

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A

8. Risk and Contingencies

Contingencies:

Risk Mitigation:

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2023	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	2023	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction 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.
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	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2024	Medium	If storm activity delays work, we may be forced to use external resources.

System abnormal configuration	2024	Low	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.

9. References

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

Attachment	Included in Submittal?
A. Cost Estimate	*YES*
B. Geographic Map	*YES*
C. System and Station One-Lines	*YES*
D. Other	*YES*
E. Electrical Load Letter	*YES*
F. PAF File	*YES*

Attachment A: Cost Summary:

Segment 1: New Service – [redacted]

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$429,294
Contingency Amount:	$103,031
Estimate:	$532,325
Reimbursement:	$0
Net Amount:	$532,325

Description:

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING Network	16-ALL15	$28,097.60
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18	$15,000.00
UG CABLE UG - Transition Splice	16-UG120	$15,820.80
SWITCHGEAR DB/UG-Switchgear up to 25kV-Auto Type 9/12 (pair)	16-UG126	$197,760.00
XF DB/UG - Padmount XF - 3ph	16-UG131	$31,496.00
UG CABLE DB/UG - 4/0 - 3-1/C (3ph) Cu [redacted] SWG Output to XFMR	16-UG113B	$28,800.00
UG CABLE DB/UG - 4/0 - 3-1/C (3ph) Cu [redacted] - SWG Output to XFMR	16-UG113B	$28,800.00
UG CABLE DB/UG - 350/500 - 3-1/C (3ph) Cu for [redacted] from MH 696 to SWG	16-UG114	$41,760.00
UG CABLE DB/UG - 350/500 - 3-1/C (3ph) Cu for [redacted] from MH 696 to SWG	16-UG114	$41,760.00

Segment 2: [redacted]

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$326,008
Contingency Amount:	$78,242
Estimate:	$404,250
Reimbursement:	$0
Net Amount:	**$404,250**
Description:	

Item Description	CU	[redacted]	Amount
SWITCHING OH/DB/UG - SWITCHING Network	16-ALL15		$28,097.60
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18		$30,000.00
UG CABLE UG - Transition Splice	16-UG120		$7,910.40
UG CABLE DB/UG - 750/1000 - 3-1/C (3ph) Cu From MH 1063 - 1092 - 1093 - 1094 - 697 - 696	16-UG114B		$240,000.00
OTHER OTHER MH Cleaning and inspection	16-ALL14		$20,000.00

Segment 3: [redacted]

Estimate

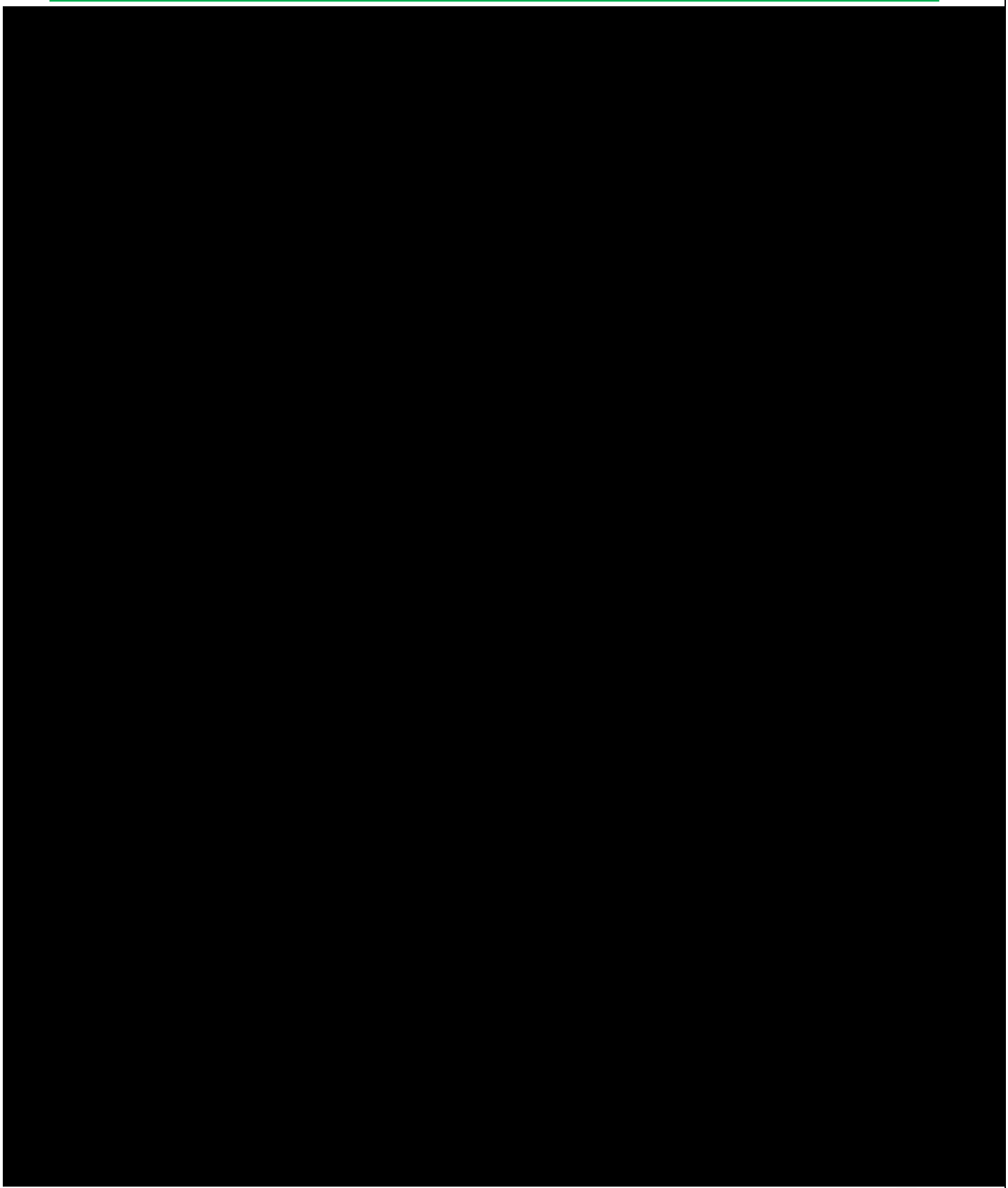
	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$19,048
Contingency Amount:	$4,572
Estimate:	$23,620
Reimbursement:	$0
Net Amount:	**$23,620**
Description:	

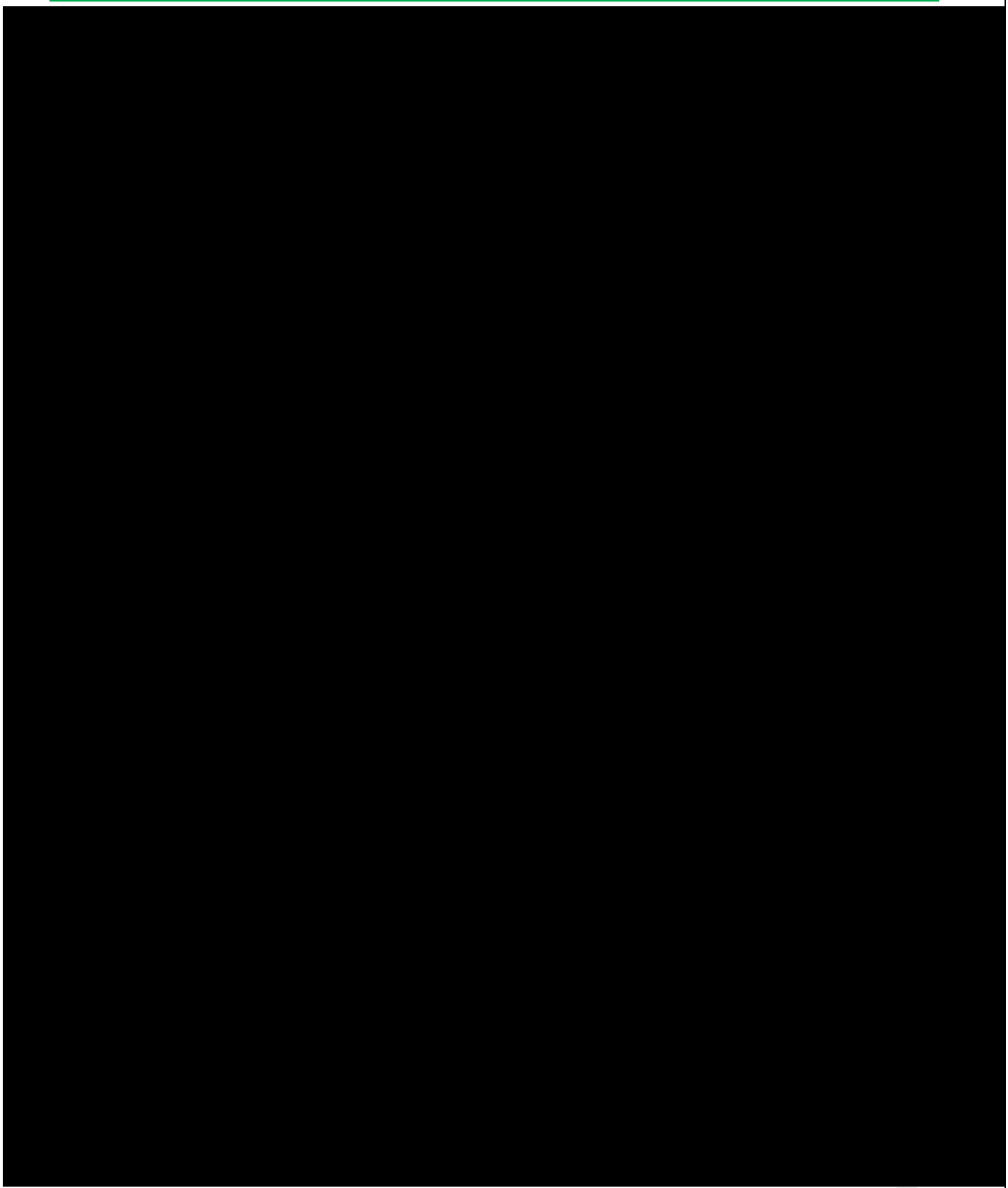
Item Description	CU	[redacted]	Amount
TRAFFIC OH/DB/UG - Traffic Control - Police Officer	16-ALL18		$5,000.00
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Complex [redacted] ELM ST Load transfer from [redacted]	16-ALL16		$14,048.00

[redacted]

[redacted]

[redacted]





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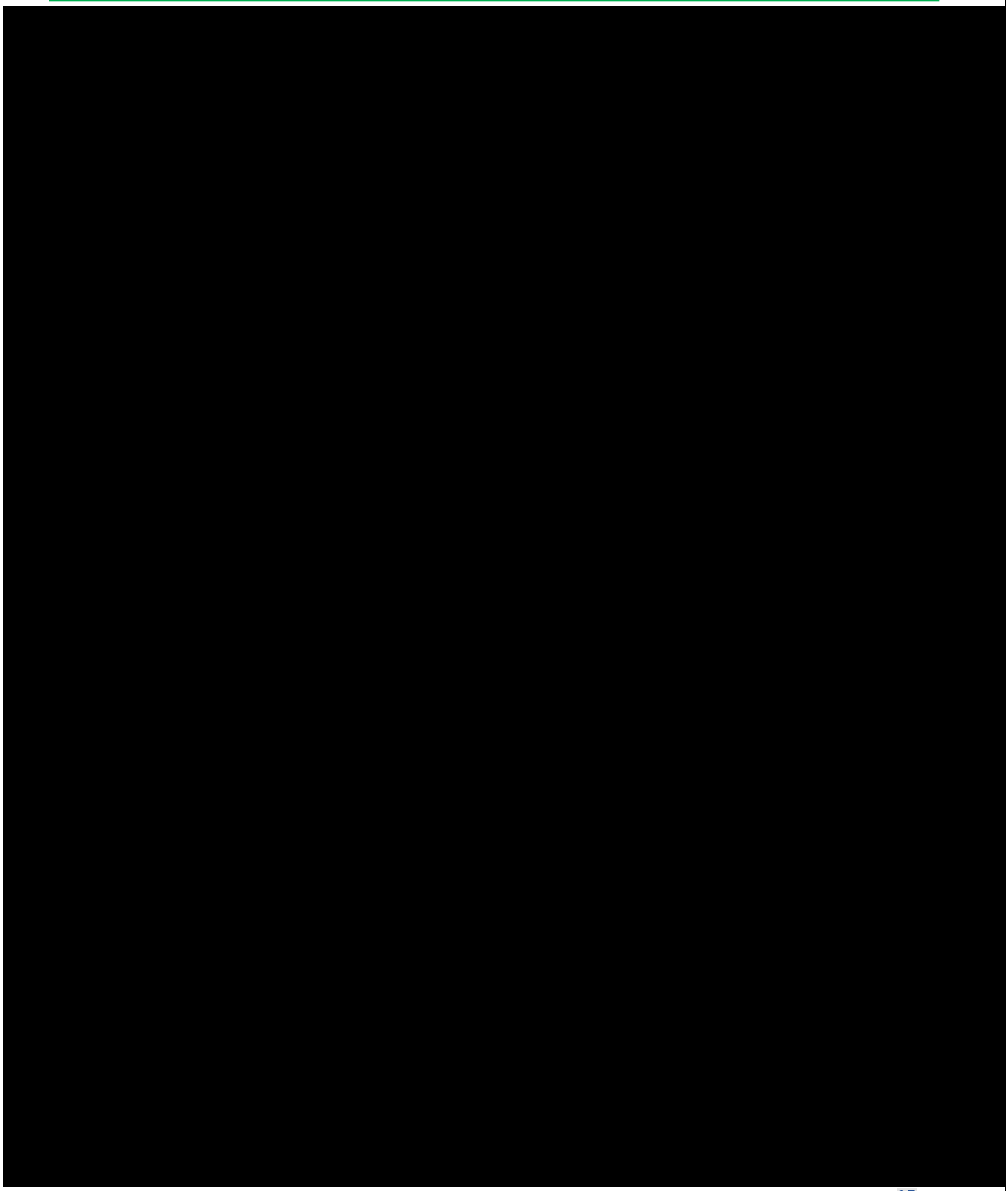

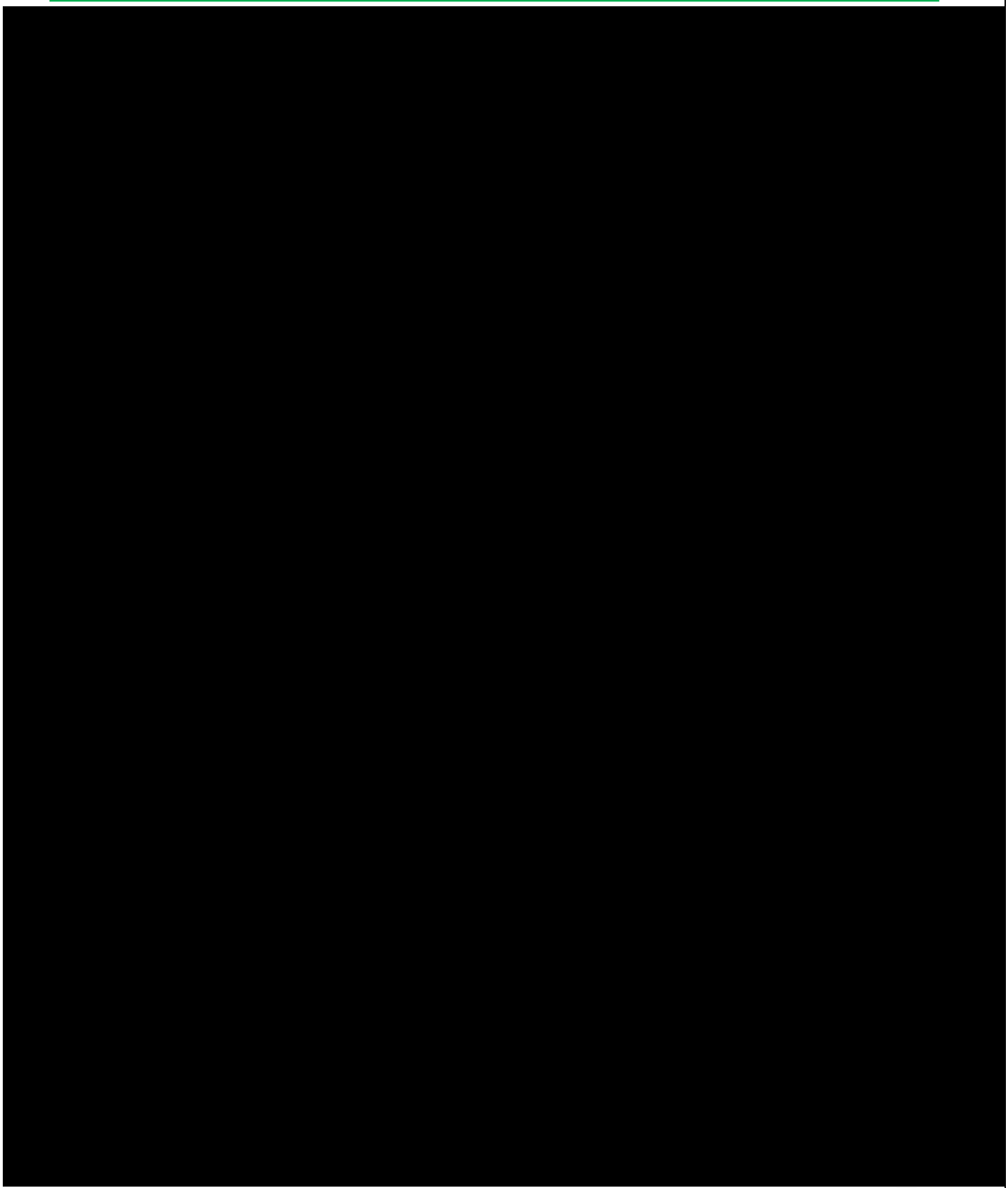

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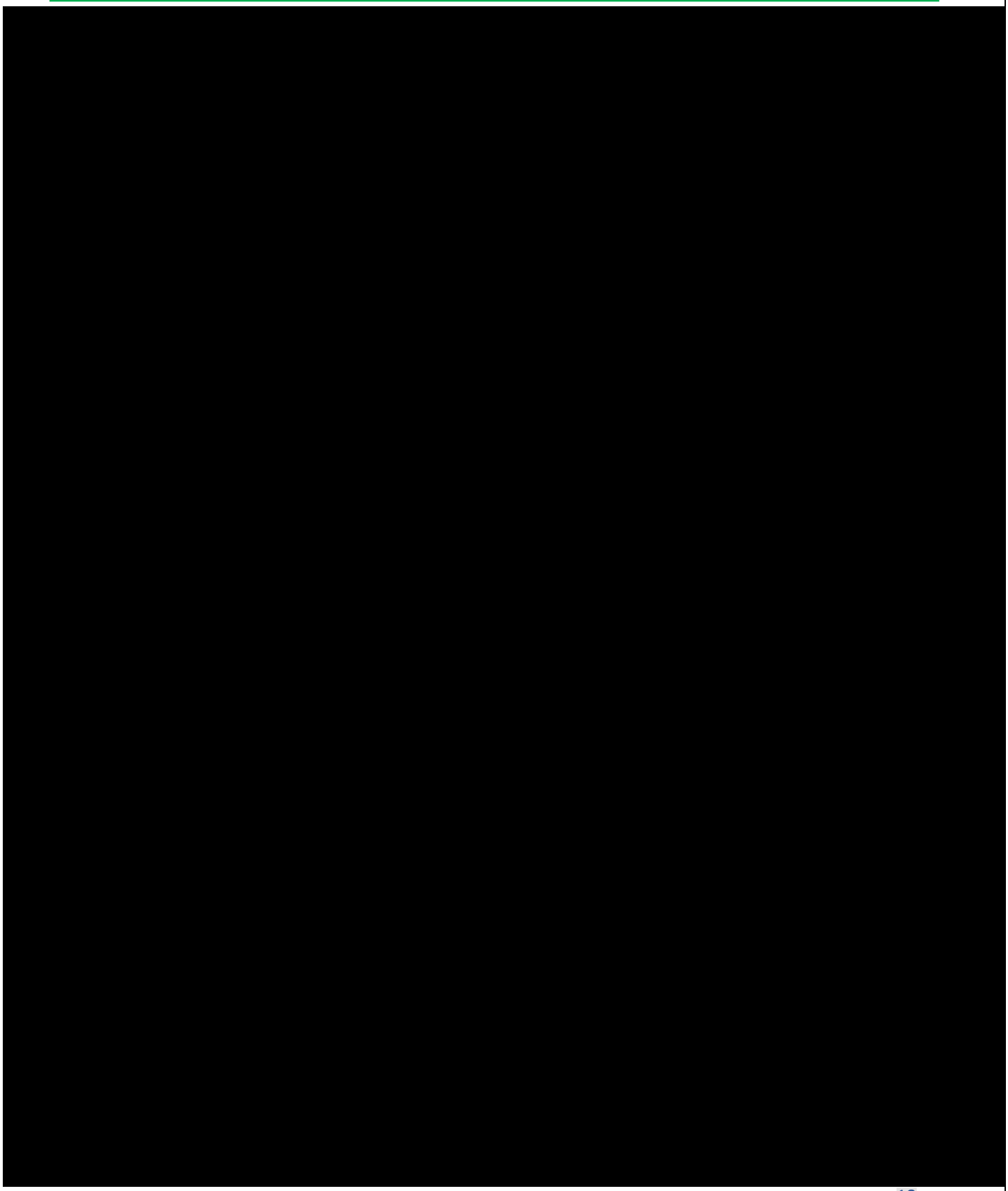

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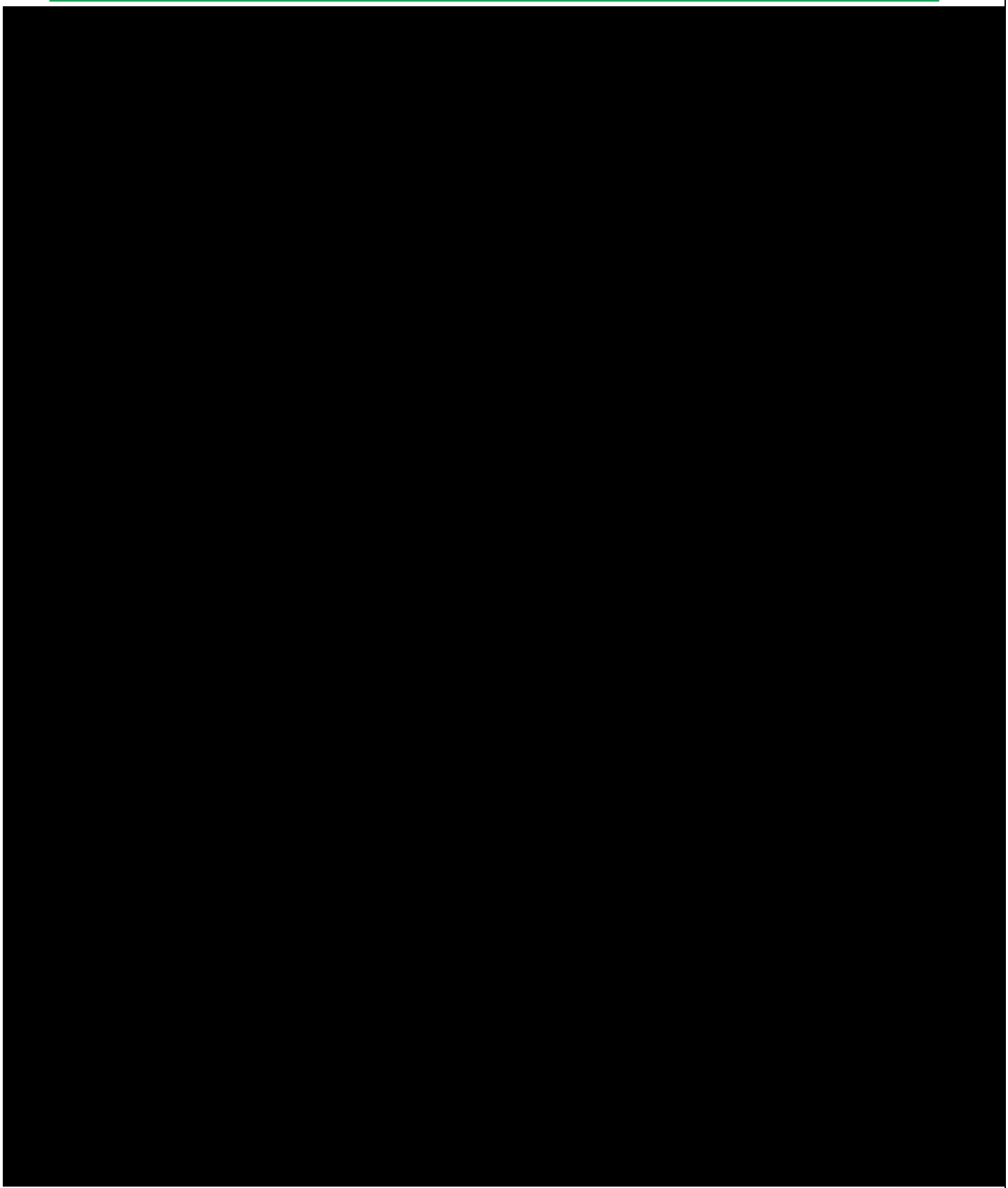

EVERSOURCE

Project Approval Form

Attachment F: PAF File

Project Title: **New Service –** [redacted]	**Project Number CD02016**
Date Prepared: 06/21/2023	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** SPECIFIC PROJECTS-NEW SRVCE
Project Initiator: [redacted]	**Project Type:** Specific
Initiating Organization: Distribution	**Capital Investment part of original Op Plan:** Yes
Project Manager: [redacted]	**Emergency Related Request?** No
Project Sponsor: [redacted]	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☒ Distribution ☐ N/A (General Plant)
Required in service date: 03/31/2024	
Total Capital Request: $912.0K (CIAC: 405.7K)	**Authorization Type: Partial Funding**

1. Executive Summary

A new customer, will be constructing a new 19-story residential/commercial building at [redacted] The building will consist of 408 residential apartment units from floors 1 through 17. Spaces for parking garage, amenities, retail units, offices, storage etc. will be located throughout the footprint of the building. The total area of the building is 692,901 sf.

[redacted]

The customer contribution are as follows:

1.	Transformers	$14,632.00
2.	Traffic control	$5,000.00
3.	Switches	$355,983.71
4.	Tax Liability	$30,049.26
		$405,664.97

Location Information:
Division: Western
District: Stamford
City: Stamford

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2024	2025	2026+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	59.5	0.0	0.0	59.5
Outside Services	170.3	0.0	0.0	170.3
Materials	190.1	0.0	0.0	190.1
Removals	131.2	0.0	0.0	131.2
Risk and Contingency	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**551.0**	**0.0**	**0.0**	**551.0**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	338.6	0.0	0.0	338.6
Capitalized interest or AFUDC, if any	22.5	0.0	0.0	22.5
Subtotal – Indirect Costs	**361.0**	**0.0**	**0.0**	**361.0**
Total Gross Capital Costs	**912.0**	**0.0**	**0.0**	**912.0**
Customer Contribution	**-405.7**	**0.0**	**0.0**	**-405.7**
Total Net Capital Project Costs	**506.4**	**0.0**	**0.0**	**506.4**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

A new customer is requesting service to a new 19-story residential/commercial building at 18 Dock Street, in Stamford. There will be 1 building that will have a total of 408 apartment units with other space such for parking garage, amenities, retail units, office space, storage space, etc.

[redacted]

b. Project Need

[redacted]

c. Project Scope

[redacted]

To feed the new building the project proposes the following under preferred option 1.

[redacted]

[redacted]

Major Material:

- 2500' 1000 Cu
- 1200' 500 Cu
- 1200' 4/0 Cu
- 1 PME type 9/9 switchgear.
- 5 Transformers – 2 x 2000 (277/480) & 3 x 1000 (120/208).

4. Alternatives Considered

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

5. Project Schedule

Milestone/Phase Name	Estimated Date
100% Engineering Completion	May 2023
Construction Start	Aug 2023
Testing/Commissioning	Jan 2024
In Service Date	March 2024

6. Regulatory Decisions

7. Codes and Standards

8. Risk and Contingencies

Risk Event	Risk Horizon	Likelihood of Occurrence	Risk Mitigation
Actual cost higher than estimated due to scope changes.	2023	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	2023	Low	Design to minimize customer impact. Project Preplanning and customer/community outreach.
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Materials Shortage or long lead times	2023	Low	Pre-order long lead time material; minimize the use of non-standard and non-stocked material.
Storm delays	2024	Medium	If storm activity delays work, we may be forced to use external resources.
System abnormal configuration	2024	Low	Schedule work to minimize system abnormal time. Install temporary bypasses/equipment if system will be abnormal for extended periods.

9. References

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

Attachment	Included in Submittal?
A. Cost Summary	*YES*
B. Geographic Map	*YES*
C. Oneline	*YES*
D. Load Sheet	*YES*
E. Electrical Load Letter	*YES*