EVERSOURCE

Supplement Authorization Form

Project Title: Middletown Industrial Park Rd_Auto SWGR	**Project Number: CD02058**
Date Prepared: 05/19/2025	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** UG Network Automation
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: $573K	**Approved In-Service Date:** 12/31/2024
Supplement Request: $242.5K	**Estimated In-Service Date: 6/1/2025**
Total Capital Request: $816.3K	**Authorization Type:** Supplement Request
	Reason: Cost Overage

1. Project Background

Supplemental funding is being requested for a total capital cost of $816.3K which is 42.2% higher than the original full funding request approved in the amount of $573.8K on 10/24/2024. The main driver for the increase includes a change in scope that resulted in additional civil work and consisted in the relocation of one of the PME's units being moved from one side of the street to the other. The two PME units were originally planned to be installed side by side, but this was not possible due to an easement boundary constraint which resulted in adding a manhole to the other side of the road. Also, the relocation of the switchgear caused an increase in labor time for underground, district electricians and test resources.

The Original Project was presented as follows:

- *Project CD02058* [redacted]

2. Supplement Justification Overview

The total project cost variance for CD02058 is $242.5k, this amount reflects an increase in both: (i) Direct Cost (labor, outside services, material, removals, contingency) from $339K to $452.5k, or $112.6k variance, and (ii) Indirect Cost (indirect/overhead, benefits, capitalized interest) from $233.9K to $363.3k, or $129.9k variance.

All work orders for this project will be closed once these two PME units are fully commissioned, 42 man-hours of additional test time and electrician support will be charged against the project. The additional charges will not exceed the allowable APS1 threshold (+15%) set for this project at $938K.

3. Supplement Justification Detail

The following information provides additional information for the cost variances:

Outside Services variances: $76.2k = [Authorized: $29.1K + Supplemental $47.1k]

- Additional manhole purchased from Charter Oak charged as outside services not material. Manhole was not available at Eversource.
- Additional excavation to relocate the manhole to the other side of the street.

Material Variance: $268k = [Authorized: $188.6K + Supplemental $79.4k]

- The supplemental request shows an increase of 26% in material primarily due to Maximo underestimating material pricing when compared to actuals.
- Overall material costs came in higher than anticipated relative to the full funding estimate.

Internal Labor Variance: $73.8k = [Authorized: $36.6K + Supplemental $37.2k]

- Additional travel time from New London to Middletown CT was not included in the original estimate.
- Labor charges corrected and reversed ($-7.2) caused by incorrect charging FWO.
- Electrician time to assist Test Department during set up, switching was not included in the full funding request.

Financial Evaluation ($000's)

Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Internal Labor and Construction Equipment	64.4	36.6	37.2	73.8
Outside Services	66.5	29.1	47.1	76.2
Materials	233.7	188.6	79.4	268.0
Removals	81.1	61.9	-27.5	34.4
Risk and Contingency	0.0	23.7	-23.7	0.0
Other	0.0	0.0	0.1	0.1
Subtotal	**445.6**	**339.9**	**112.6**	**452.5**

Indirect Capital Costs	To Date Spend	Prior Authorized	Supplemental Request	Total Request
Indirects/Overheads (including benefits)	352.2	233.9	118.7	352.6
Capitalized interest or AFUDC, if any	11.2	0.0	11.2	11.2
Subtotal	**363.4**	**233.9**	**129.9**	**363.8**
Total Capital Costs (Gross)	**809.0**	**573.8**	**242.5**	**816.3**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**809.0**	**573.8**	**242.5**	**816.3**

4. 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	2024 Actual	2025 Actual	2025 Estimate	TOTAL
Internal Labor & Equipment	3.2	83.9	-7.2	79.9
Outside Services	43.2	25.3	14.0	82.5
Materials	319.0	-29.0	0.0	290.0
Removals	0.0	0.0	0.0	0.0
Risk and Contingency	0.0	0.0	0.0	0.0
Other	0.0	0.1	0.0	0.1

SUBTOTAL Direct Cost	**365.4**	**80.3**	**6.8**	**452.5**
Indirects / Overheads	82.7	269.5	0.4	352.6
AFUDC	2.8	8.5	0.0	11.2
SUBTOTAL Indirect Cost	**85.5**	**277.9**	**0.4**	**363.8**
TOTAL Capital Request	**450.9**	**358.2**	**7.2**	**816.3**
Less Total Customer Contribution	0.0	0.0	0.0	0.0
TOTAL Project Cost	**450.9**	**358.2**	**7.2**	**816.3**

5. Lessons Learned

N/A

EVERSOURCE

Supplement Authorization Form

Project Title: Middletown_Industrial Park Rd_Auto SWGR	**Project Number:** CD02058
Date Prepared: 09/25/2024	**Company:** Eversource CT
Organization: Electric System Operations	**Project Category:** UG CABLE & EQUIPMNT REPLACEMNT
Project Initiator: [redacted]	**Project Type:** Program Release
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: $573.8K	**Authorization Type:** Full Funding

6. Executive Summary

Full funding is being requested for this project at a cost of **$573.8K** which is 93% of the partial funding capital estimate of $619K. This project was approved for partial funding on 12/15/2022. There is no scope change on the project. This project falls within the 15% threshold relative to the partial funding estimate and is therefore being requested with no additional changes.

The Original Project was presented as follows:

- [redacted]
- [redacted]

7. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2024	Total
Internal Labor and Construction Equipment	36.6	36.6
Outside Services	29.1	29.1
Materials	188.6	188.6
Removals	61.9	61.9
Risk and Contingency	23.7	23.7
Other	0.0	0.0
Subtotal	**339.9**	**339.9**

Indirect Capital Costs	2024	Total
Indirects/Overheads (including benefits)	233.9	233.9
Capitalized interest or AFUDC, if any	0.0	0.0
Subtotal	**233.9**	**233.9**
Total Capital Costs (Gross)	**573.8**	**573.8**
Less Total Customer Contribution	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**573.8**	**573.8**

8. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted]

[redacted]

[redacted].

b. Project Need

The project automates sectionalizing and re-energizing underground loops for commercial customers on Industrial Park Road, Middletown. It also provides the capability to remotely monitor and manage the underground system in real-time.

c. Project Scope

[redacted]

Major Material:
Type PME-9 Pair Automatic Switchgear
575 ft. 500 Al-15kV-3/C-EPR UG Cable
(2) Manhole Top for PME-9 Support
(1) Manhole Bottom for PME-9 Support
75ft Conduit

9. Alternatives Considered

Option 2 – PME-5 Pair w/ Smith St. Load Swap

[redacted]

Option 3 – PME-9 Pair w/ New UG Feeder

[redacted] This option was not selected since the total cost of the project is $4.84M.

Option 1 was selected due to both lower cost relative to Option 3 and utilization of PME-9s instead of PME-5s in Option 2.

Project Option Comparison

	Option
[redacted]	

[redacted]	[redacted]		[redacted]
Cost	$573,7682	$541,080	$4,835,421
Cost / CM Saved	$3.21	$3.89	$34.80
Cost / CI Saved	$111,710	$135,270	$1,208,855
Preferred option	X		

10. 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	5/2023
In Service Date	12/2024

11. Regulatory Decisions

N/A

12. Codes and Standards

N/A

13. Risk and Contingencies

Risk Mitigation:

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.
Internal construction resources not available to perform the work.	2024	Low	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	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2024	High	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	2024	Medium	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.

14. References

References

1. DSEM 05.831 – Underground System Nomenclature
2. DSEM 07.223 – UG/DB Design Selections
3. DSEM 11.551 – Automatic Switchgear Selection Guide
4. DSEM 11.511 – Standard Switchgear Units and Combinations
5. DSEM 11.562 – Automatic Switchgear Selection Guide Diagrams
6. CD02030 - [redacted] Reconductor • Status: design engineering completed. Awaiting detail engineering. ISD: 12/31/2024 • Relevance: reconductor [redacted] getaway cable

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

Attachment	Included in Submittal?
A. Partial Funding PAF Form	*YES*
B. Project Needs Statement	*YES*
C. Geographic Map	*YES*
D. System and Station One-Lines	*YES*

A. Partial Funding PAF Form

Operations Project Authorization Form

Project Title: Middletown_Industrial Park Rd_Auto SWGR	**Project Number:** CD02058
Date Prepared: 11/14/2022	**Company:** Eversource CT
Organization: Electric Field Operations	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** UG Network Automation
Project Manager: [redacted]	**Project Type:** Program
Project Sponsor: [redacted]	**Capital Investment part of original Operating Plan:** Yes
Estimated in service date: 12/31/2024	**Emergency Related Request?** No
Eng./Constr. Resources Budgeted? Yes	**Facility Type** (check all that apply): ☐ PTF ☐ non-PTF ☒ Distribution
Total Gross Capital Request: $619K	**Authorization Type:** Initial Funding

Executive Summary

[redacted]

Project Costs Summary

Note: Dollar values are in thousands

Capital Costs	2024	Year 2	Year 3+	Total
Internal Labor and Construction Equipment	$65	$0	$0	$65
Outside Services	$124	$0	$0	$124
Materials	$207	$0	$0	$207
Removals	$21	$0	$0	$21
Risk and Contingency	$2	$0	$0	$2
Other	$0	$0	$0	$0
Subtotal	$419	**$0**	**$0**	$419
Indirect Capital Costs				
Indirects/Overheads (including benefits)	$192	$0	$0	$192
Capitalized interest or AFUDC, if any	$7	$0	$0	$7
Subtotal	$199	**$0**	**$0**	$199
Total Capital Costs (Gross)	**$619**	**$0**	**$0**	**$619**
Less Total Customer Contribution	$0	$0	$0	$0
Project Costs (Net)	**$619**	**$0**	**$0**	**$619**

Technical Justification:

Project Need, Objective and Justification:

[redacted]

Project Scope:

[redacted]

[redacted]

Major Material:

Type PME-9 Pair Automatic Switchgear

575 ft. 500 Al-15kV-3/C-EPR UG Cable

(2) Manhole Top for PME-9 Support

(1) Manhole Bottom for PME-9 Support

75ft Conduit

Background:

[redacted]

Alternatives Considered:

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

Alternatives were considered (please describe below)

Option 2 – PME-5 Pair w/ Smith St. Load Swap

[redacted]

Option 3 – PME-9 Pair w/ New UG Feeder

[redacted]

[redacted] This option was not selected since the total cost of the project is $4.84M.

Project Option Comparison

	Options		
[redacted]			
Cost	$618,595.86	$541,080.91	$4,835,421.14
Cost / CM Saved	$4.45	$3.89	$34.80
Cost / CI Saved	$154,648.97	$135,270.23	$1,208,855.29
Preferred option	X		

Regulatory Approvals:

Are Regulatory body approvals needed for the project?

No

If yes, provide detailed regulatory approvals

Project Schedule

Milestone/Phase Name	Estimated Date
Design Engineering	12/2022
Detail Engineering	5/2023
Order Material	8/2023
Construction Start	6/2024
Testing/Commissioning	6/2024
In Service Date	6/2024

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.
Internal construction resources not available to perform the work.	2024	Low	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	Low	Plan internal resources to perform the work. Use competitive bidding to ensure lowest outside labor cost.
Materials Shortage or long lead times	2024	High	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	2024	Medium	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.

References

DSEM 05.831 – Underground System Nomenclature

DSEM 07.223 – UG/DB Design Selections

DSEM 11.551 – Automatic Switchgear Selection Guide

DSEM 11.511 – Standard Switchgear Units and Combinations

DSEM 11.562 – Automatic Switchgear Selection Guide Diagrams

CD02030 – 6A7 Reconductor

- Status: design engineering completed. Awaiting detail engineering. ISD: 12/31/2024
- Relevance: reconductor [redacted] getaway cable

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

Need Statement	Load Sheet	One-Line	Detail Map
CD02058 Project Needs Statement.pd	CD02058 Load Summary Sheet.xlsx	CD02058 Oneline.pdf	CD02058 Maps & Dwgs.pdf

b. Project Needs Statement

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02058
Middletown_Industrial Park Rd_Auto SWGR

Work Classification

Category: Line
Type: REL1
Type Desc: SWITCHGEAR
Work Type:

Ownership / Management

AWC: East Hampton
Statewide: No
Owner: [redacted]
Manager:

Project Information

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

Budget Summary - Preferred Option

Middletown_Industrial Park Rd_UG PME-9 Pair

2024

ID	Title	Status	Rev #	Contingency	Expenditure Amount	Net Estimate
4	Smith St & Judd [redacted] Load Transfer	Draft	0	28%	$11,545	$11,545
1	Middletown_Industrial Park Rd_PME-9_Pair	Draft	0	28%	$682,591	$682,591
				2024 Total:	$694,135	$694,135
				Total Project:	$694,135	$694,135

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02058

Middletown_Industrial Park Rd_Auto SWGR

Project Option Summary

ID	Description	Segments	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)	Prfrd
O1	Middletown_Industrial Park Rd_UG PME-9 Pair	1,4	$694,135	$0	100%	$26,166.23	$26,166.23	☑
O2	Middletown_Industrial Park Rd_UG PME-5 Pair	2,4	$589,431	$0	100%	$4,187.50	$4,187.50	☐
O4	Middletown_Industrial Park Rd_UG PME-9/12 Pair with New Feeder	1,5	$5,287,771	$0	100%	$199,328.65	$199,328.65	☐

Segments

ID	Title	Preliminary Estimate	Construction Estimate	Variance	IEEE $/CMS	All (w/Storm)
1	Middletown_Industrial Park Rd_PME-9_Pair	$682,591			$23,627.23	$23,627.23
2	Middletown_Industrial Park Rd_PME-5_Pair	$577,887			$3,764.98	$3,764.98
3	Delete	$0			$0.00	$0.00
4	Smith St & Judd [redacted] Transfer	$11,545			$0.00	$0.00
5	New UG Feeder	$4,605,160			$0.00	$0.00

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02058

Middletown_Industrial Park Rd_Auto SWGR

Background / Scope

Issue:

Replace manual switchgear with automated switchgear, PME-5 type

Project Description:

[redacted]

Other Considerations:

Revision / ACT Comments:

If we don't do this project, what will happen?

[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 [redacted] Approx. Pole Count (NU):

Crit. Cust. Impacted 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 #:

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02058

Middletown_Industrial Park Rd_Auto SWGR

Design Alternative CD02058-01

General Information

Segment: 1 - Middletown_Industrial Park Rd_PME-9_Pair Status: Draft

Segment Type: UG - OBSOLESCENCE Town: MIDDLETOWN Budget Year: 2024

Work Type: BB-Sctnlzng-Switches 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 #: CD02058

Middletown_Industrial Park Rd_Auto SWGR

Design Alternative CD02058-01

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	28.00%
SubTotal:	$533,274
Contingency Amount:	$149,317
Estimate:	$682,591
Reimbursement:	$0
Net Amount:	**$682,591**

Description:

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average 1 switching qty per gear	16-ALL17	$7,019.20
SWITCHGEAR DB/UG-Switchgear up to 25kV-Auto Type 9/12 (pair) 2 PME-9's (Standalone); (1) for MH#2709, (1) for new 6A8 MH	16-UG126	$197,760.00
OTHER OTHER Contractor Labor Cost - 20%	16-ALL14	$82,100.00
TRAFFIC OH/DB/UG - Traffic Control - Flagger Flagger Labor Cost - 10%	16-ALL19	$41,050.00
CONDUIT DB - Conduit Installation installation of 3 ducts between new [redacted] MH and MH2709, ~25ft per	16-UG152	$3,360.00
ENCLOSURE UG - MANHOLE - Precast NEW MH for [redacted] Switchgear	16-UG139	$62,986.40
ENCLOSURE UG - MANHOLE - Rebuild, enlarge or re-roof Replace 1 Top Half of [redacted] MH, SPC-069-070, SC#566642, to accor	16-UG141	$98,978.40
UG CABLE DB/UG - 350/500 - 3-1/C (3ph) Cu See drawing for segment lengths	16-UG114	$40,020.00

[redacted]

Connecticut Light & Power
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Specific Project Proposal - Project #: CD02058

Middletown_Industrial Park Rd_Auto SWGR

Design Alternative CD02058-01

Associated / Impacted Devices

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

Reliability Projection

Title:

Outage Start Date: 1/1/2007 Outage End Date: 7/12/2022 Years History: 15.54

[redacted]

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02058

Middletown_Industrial Park Rd_Auto SWGR

Design Alternative CD02058-02

General Information

Segment: 2 - Middletown_Industrial Park Rd_PME-5_Pair Status: Draft

Segment Type: UG - OBSOLESCENCE Town: MIDDLETOWN Budget Year: 2024

Work Type: BB-Sctnlzng-Reclosers 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 #: CD02058

Middletown_Industrial Park Rd_Auto SWGR

Design Alternative CD02058-02

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$451,474
Contingency Amount:	$126,413
Estimate:	$577,887
Reimbursement:	$0
Net Amount:	**$577,887**

Description:

Item Description	CU	Amount
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average 1 switching qty per gear	16-ALL17	$7,019.20
OTHER OTHER Contractor Labor Cost: 20%	16-ALL14	$69,500.00
TRAFFIC OH/DB/UG - Traffic Control - Flagger Flagger Labor Cost - 10%	16-ALL19	$34,750.00
CONDUIT DB - Conduit Installation installation of 3 ducts between new [redacted] MH and MH2709, ~25ft per	16-UG152	$3,360.00
ENCLOSURE UG - MANHOLE - Precast New MH for 6A8 Switchgear	16-UG139	$62,986.40
ENCLOSURE UG - MANHOLE - Rebuild, enlarge or re-roof Replace 1 Top Half of [redacted]MH, SPC-069-070, SC#566642, to acco	16-UG141	$98,978.40
SWITCHGEAR DB/UG - Switchgear up to 25kV - Auto Type 5 (pair) Replaces PMH-5's on MH#2709 & MH#2710	16-UG125	$140,080.00
UG CABLE DB/UG - 350/500 - 3-1/C (3ph) Cu See drawing for segment lengths	16-UG114	$34,800.00

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02058

Middletown_Industrial Park Rd_Auto SWGR

Design Alternative CD02058-02

Associated / Impacted Devices

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

Reliability

Title:

Outage Start Date: 1/1/2017 Outage End Date: 11/8/2022 Years History: 5.85

[redacted]

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02058
Middletown_Industrial Park Rd_Auto SWGR

Design Alternative CD02058-03

General Information

Segment: 3 - Delete
Status: Draft
Segment Type: UG - OBSOLESCENCE
Town: MIDDLETOWN
Budget Year: 2024
Work Type: BB-Sctnlzng-Switches
Trimming Required: ☐
In Service Date: 12/31/2024
Description:

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02058

Middletown_Industrial Park Rd_Auto SWGR

Design Alternative CD02058-03

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$0
Contingency Amount:	$0
Estimate:	$0
Reimbursement:	$0
Net Amount:	**$0**

Description:

Item Description	CU	$ / Per	Qty	Amount

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes

Reliability Projection

Title:

Outage Start Date: 1/1/2017 Outage End Date: 11/8/2022 Years History: 5.85

[redacted]

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02058

Middletown_Industrial Park Rd_Auto SWGR

Design Alternative CD02058-04

General Information

Segment: 4 - Smith St & Judd [redacted] Transfer Status: Draft

Segment Type: LOAD BALANCING Town: MIDDLETOWN Budget Year: 2024

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

Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

Connecticut Light & Power
A Northeast Utilities Company

Specific Project Proposal - Project #: CD02058

Middletown_Industrial Park Rd_Auto SWGR

Design Alternative CD02058-04

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	28.00%
SubTotal:	$9,019
Contingency Amount:	$2,525
Estimate:	$11,545
Reimbursement:	$0
Net Amount:	**$11,545**

Description:

Item Description	CU	Amount
TRAFFIC OH/DB/UG - Traffic Control - Flagger $1000/day estimate	16-ALL19	$1,000.00
OTHER OTHER 1 crew/day	16-ALL14	$1,000.00
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average Closing [redacted] Disconnects and opening [redacted] on Smith St. Then swapping circuits for North&Juddd Mfg	16-ALL17	$7,019.20

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes

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Specific Project Proposal - Project #: CD02058
Middletown_Industrial Park Rd_Auto SWGR

Design Alternative CD02058-05

General Information

Segment: 5 - New UG Feeder
Status: Draft
Segment Type: LOAD/CAPACITY
Town: BERLIN
Budget Year: 2024
Work Type: BB-Conversion/Rebuild
Trimming Required: ☐
In Service Date: 12/31/2024
Description: [redacted]

Itemized Work List

ID	Major Grid	Minor Grid	Description of Work to be Performed

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Middletown_Industrial Park Rd_Auto SWGR

Design Alternative CD02058-05

Estimate

Preliminary Estimate Summary

Revision Number:	0
Contingency:	28.00%
SubTotal:	$3,597,797
Contingency Amount:	$1,007,383
Estimate:	$4,605,180
Reimbursement:	$0
Net Amount:	**$4,605,180**

Description:

Item Description	CU	Amount
UG CABLE	16-UG114	$396,720.00
DB/UG - 350/500 - 3-1/C (3ph) Cu 0.75mi from [redacted] Switch outisde Aetna to Duct Bank at Intersection [redacted] Ind Prk Rd (5,300ft + 25ft/MH, 11MHs Middle St + 5 INd Prk)		
SWITCHING	16-ALL17	$3,509.60
OH/DB/UG - SWITCHING NonNetwork - Average 1 feeder switch		
ENCLOSURE	16-UG139	$566,877.60
UG - MANHOLE - Precast 4,000ft of UG needed, 1MH/400ft - 3,960ft/400 = 9.9 + 1 extra at end. [redacted] will be stubbed into - 11 - 2 = 9 MHs needed		
OTHER	16-ALL14	$671,500.00
OTHER Contractor Cost 30%		
OTHER	16-ALL14	$352,240.00
OTHER Cost to reconductor 6A10 Getaway cable - used [redacted] estimate (same [redacted] CTOR COST		
CONDUIT	16-UG137	$1,251,200.00
UG-Ductline-up to 12 duct - Traveled Way / Paved New duct bank on middle st from Aetna to Smith St (0.75mi)		
OTHER	16-ALL14	$20,000.00
OTHER Rework MH2706 - bore hole on North Wall for 6A10 entrance		
OTHER	16-ALL14	$335,750.00
OTHER Traffic Control 15%		

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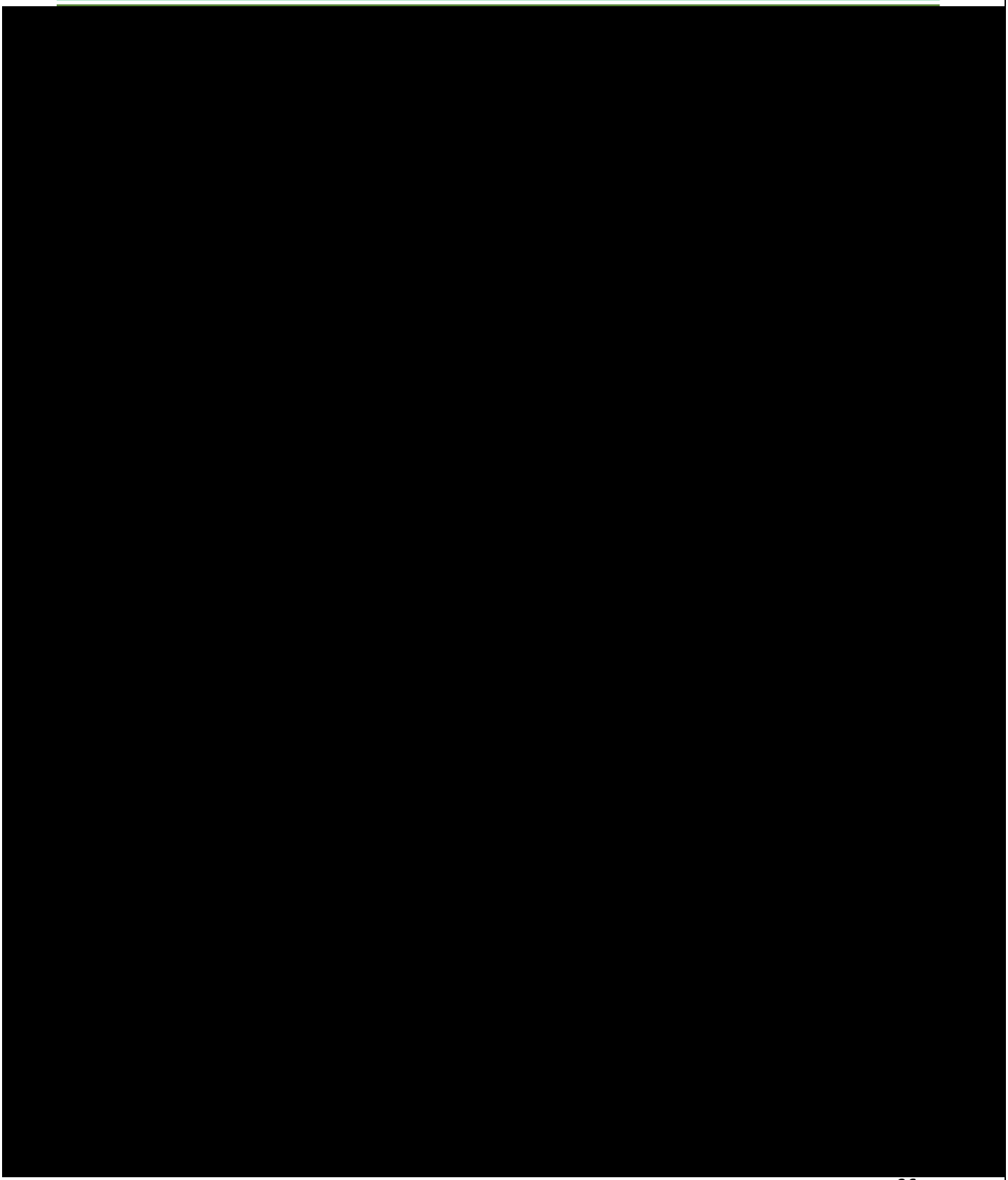
Design Alternative CD02058-05

Associated / Impacted Devices

Status	Type / SysID	Street / Cross St	Structure / Town	Circuit	Map	Cust	Notes

[redacted]



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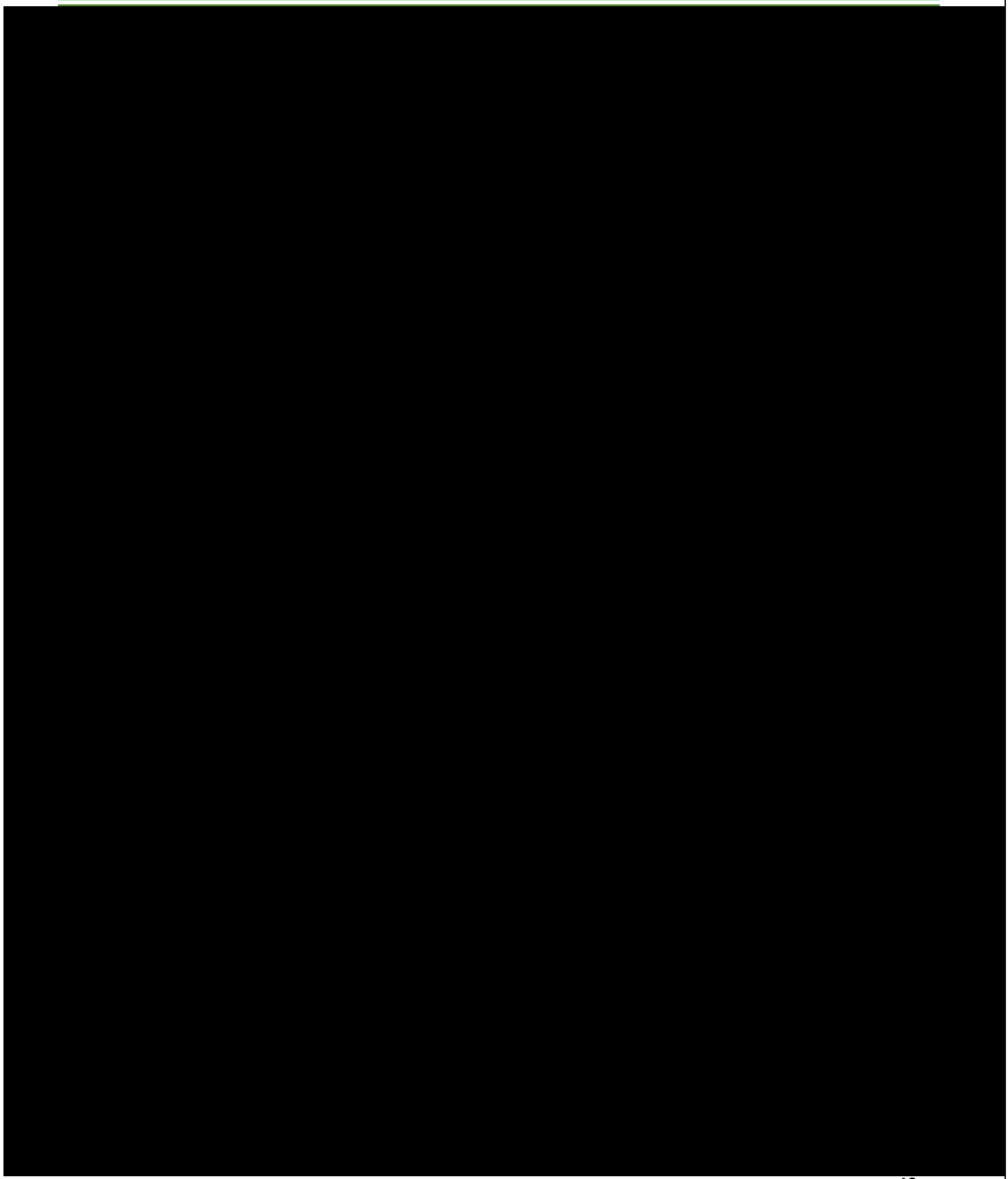

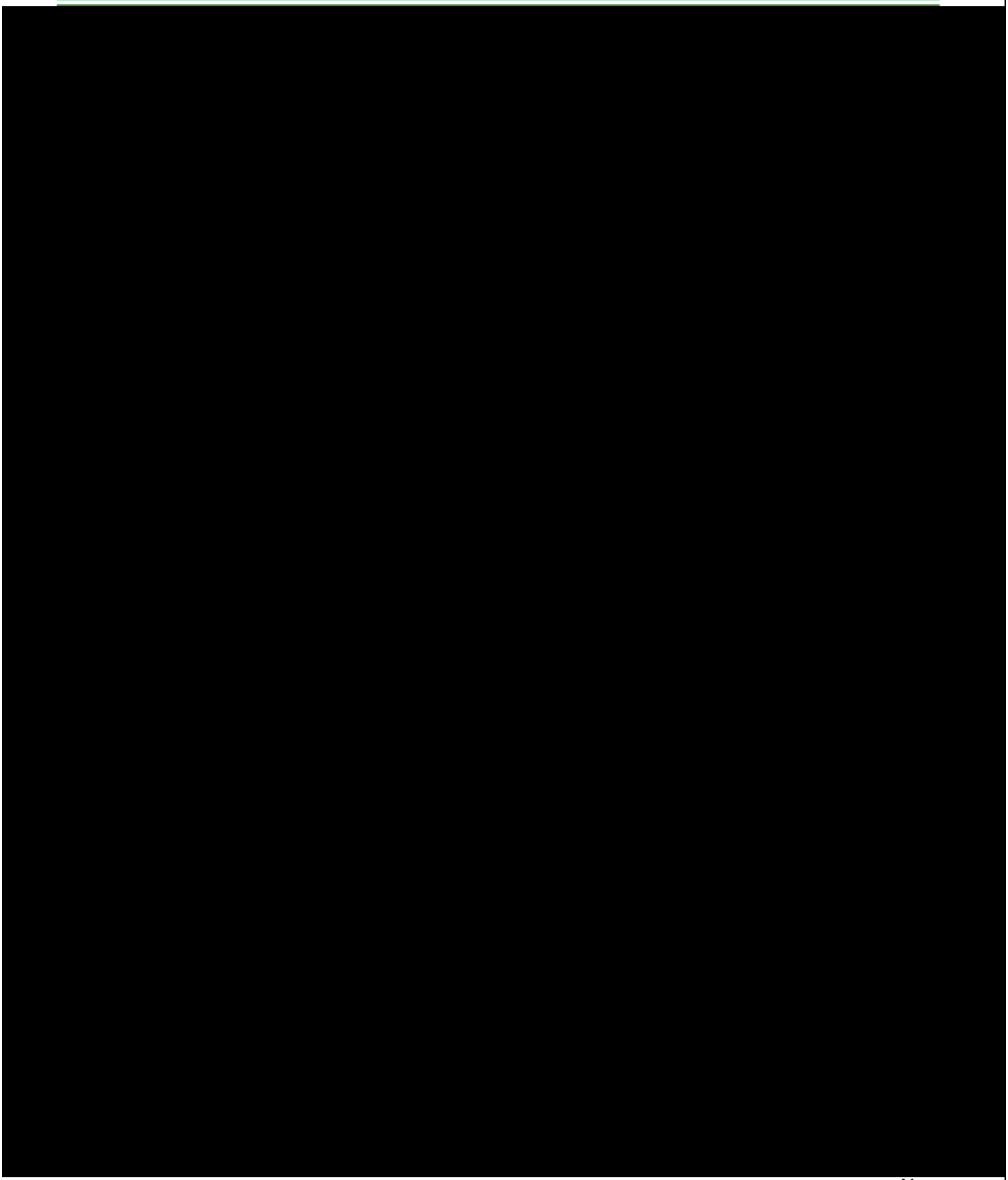

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