EVERSOURCE

Project Approval Form

Project Title: [redacted]Overloaded Step	**Project Number: CD02409**
Date Prepared: 10/30/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Project Category:** OVERLOADS-SPECIFIC PROJECTS
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: 12/31/2025	
Total Capital Request: $94K	**Authorization Type:** Full Funding

1. Executive Summary

Full funding is being requested for this project at a cost of $94K which is 38% of the partial funding capital estimate of $246K. CD02409 was partially approved on 4/25/2024. There is no scope change on the project. The variance between the full funding and partial funding estimate is primarily due to the following:

- Outside services are not anticipated to be utilized to complete most of the work, which led to a reduction of approximately $75K relative to the partial funding request.
- Extra items were included in the preliminary funding estimate that were not needed in the Full Funding Estimate or written in WOs:
  - Double counted poles (junction poles): $30,395
  - Contractor adder: $47,109
  - Traffic control: $8,000
  - Switching costs: $9,124
- Overall, this project cost less in every category of spending and the indirect costs were also impacted by these changes.

The original project was presented as follows:

- [redacted]
- ***Division:*** *Western*
- ***District:*** *Newtown AWC*

- ***Town(s):*** *Seymour, Beacon Falls*

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	2025	Year 2	Year 3+	Total
Internal Labor and Construction Equipment	37.9	0.0	0.0	37.9
Outside Services	9.0	0.0	0.0	9.0
Materials	8.4	0.0	0.0	8.4
Removals	3.9	0.0	0.0	3.9
Risk and Contingency	6.6	0.0	0.0	6.6
Other	0.0	0.0	0.0	0.0
Subtotal	**65.7**	**0.0**	**0.0**	**65.7**

Indirect Capital Costs	2025	Year 2	Year 3+	Total
Indirects/Overheads (including benefits)	28.3	0.0	0.0	28.3
Capitalized interest or AFUDC, if any	0.0	0.0	0.0	0.0
Subtotal	**28.3**	**0.0**	**0.0**	**28.3**
Total Capital Costs (Gross)	**94.0**	**0.0**	**0.0**	**94.0**
Less Total Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Project Costs (Net of Reimbursement)	**94.0**	**0.0**	**0.0**	**94.0**

Explain unique payment provisions, if applicable:

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted]

b. Project Need

[redacted]

During the SDC committee meeting on 4/18/2024, it was determined that Option 3 would be the selected option moving forward.

c. Project Scope

[redacted]

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

Major Materials:

- 3-500 kVA Step-Down Xfmrs

4. Alternatives Considered

Option 1: [redacted]

Option 2: [redacted]

[redacted]

[redacted]

Option 4: [redacted]

[redacted]

[redacted]

[redacted]

Option 3 is preferred due to resolving the overload and improving reliability in the area at a cost that is greatly reduced versus the other options outlined above.

	Option			
[redacted]				
Authorization Type	Partial	Partial	Full	Partial
Capital Cost	$1,695,866	$2,954,069	$94,009	$2,667,840
Expense Cost	$52,893	$92,136	$3,760	$83,209
Total Cost	$1,748,759	$3,046,205	$97,769	$2,751,049
MVA Added	0.125 MVA	2.390 MVA	0 MVA	0 MVA
$ / MVA Added	13,990,072 ($/MVA)	1,274,563 ($/MVA)	N/A	N/A
SDC Approved Option			**X**	

5. Project Schedule

Add any additional milestones that are pertinent to the project

Milestone/Phase Name	Estimated Date
Partial Approval	April 25, 2024
100% Detailed Engineering Completion	July 1, 2024
Construction Start	March 1, 2025
Project Completion	December 31, 2025

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A

8. Risk and Contingencies

Contingencies: 24% contingency was added for 2025 work. This contingency accounts for any risks that are unknown and do not have mitigation plans.

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	Medium	Design to minimize customer impact. Project Preplanning and customer/community outreach.

Internal construction resources not available to perform the work.	2025	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.	2025	Low	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.
Wetlands / Environmentally sensitive area	2025	Low	Use of mats and specialty equipment, only work during certain times of the year.

9. References

References
DSEM 05.201 – Circuit Load Projections
DSEM 06.301 – Pole Replacement

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

Attachment	Included in Submittal?
A1. Partial Funding PAF Form	*YES*
A. Cost Estimates	*YES*
B. Geographic Maps	*YES*

C. One-Lines	*YES*
D. Load Sheets	*YES*
E. Initial Funding PAF	*YES*

EVERSOURCE

Project Approval Form

Attachment A1 – Partial Funding PAF Form

Project Title: [redacted] **Spruce St Overloaded Step**	**Project Number: CD02409**
Date Prepared: 04/25/2024	**Company: Eversource CT**
Organization: Distribution Engineering	**Project Category: OVERLOADS-SPECIFIC PROJECTS**
Project Initiator: [redacted]	**Project Type: Specific**
Initiating Organization: Distribution	**Capital Investment part of original Op 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)
Required in service date: 12/31/2025	
Total Capital Request: $246K	**Authorization Type:** Partial Funding

1. Executive Summary

[redacted]

Division: Western

District: Newtown AWC

Town(s): Seymour, Beacon Falls

2. Project Cost Summary

Note: Dollar values are in thousands.

Capital Costs	Year 2025	Year 2026	Year 2027+	Total
Direct Capital Costs				
Internal Labor and Construction Equipment	10.3	0.0	0.0	10.3
Outside Services	83.6	0.0	0.0	83.6
Materials	41.9	0.0	0.0	41.9
Removals	18.6	0.0	0.0	18.6
Other	1.6	0.0	0.0	1.6
Risk and Contingency	0.0	0.0	0.0	0.0
Subtotal – Direct Costs	**155.9**	**0.0**	**0.0**	**155.9**
Indirect Capital Costs				
Indirect/Overheads (including benefits)	84.0	0.0	0.0	84.0
Capitalized interest or AFUDC, if any	5.6	0.0	0.0	5.6
Subtotal – Indirect Costs	**89.6**	**0.0**	**0.0**	**89.6**
Total Gross Capital Costs	**245.5**	**0.0**	**0.0**	**245.5**
Customer Contribution	**0.0**	**0.0**	**0.0**	**0.0**
Total Net Capital Project Costs	**245.5**	**0.0**	**0.0**	**245.5**

3. Technical Justification

Background, Project Need/Justification, and Project Scope

a. Background

[redacted]

[redacted]

b. Project Need

[redacted]

During the SDC committee meeting on 4/18/2024, it was determined that Option 3 would be the selected option moving forward.

c. Project Scope

This project proposes four options, Option 3 being the SDC approved option. This option looks to [redacted] The scope of Option 3 is as follows:

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

Major Materials:

- 3-500 kVA Step-Down Xfmrs

4. Alternatives Considered

Option 1: [redacted]

Option 2: [redacted]

[redacted]

Option 4: [redacted]

[redacted]

	Option
[redacted]	

[redacted]

Authorization Type	Partial	Partial	Partial	Partial
Capital Cost	$1,695,866	$2,954,069	$245,473	$2,667,840
Expense Cost	$52,893	$92,136	$7,656	$83,209
Total Cost	$1,748,759	$3,046,205	$253,129	$2,751,049
MVA Added	0.125 MVA	2.390 MVA	0 MVA	0 MVA
$ / MVA Added	13,990,072 ($/MVA)	1,274,563 ($/MVA)	N/A	N/A
SDC Approved Option			**X**	

5. Project Schedule

Milestone/Phase Name	**Estimated Date**
Partial Approval	April 25, 2024
100% Detailed Engineering Completion	July 1, 2024
Fully Funded	December 1, 2024
Construction Start	March 1, 2025
Project Completion	December 31, 2025

6. Regulatory Decisions

N/A

7. Codes and Standards

N/A

8. Risk and Contingencies

Contingencies: 24% contingency was added for 2025 work. This contingency accounts for any risks that are unknown and do not have mitigation plans.

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	Medium	Design to minimize customer impact. Project Preplanning and customer/community outreach.
Internal construction resources not available to perform the work.	2025	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.	2025	Low	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.
Wetlands / Environmentally sensitive area	2025	Low	Use of mats and specialty equipment, only work during certain times of the year.

9. References

References
1. DSEM 05.201 – Circuit Load Projections
2. DSEM 06.301 – Pole Replacement

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

Attachment	Included in Submittal?
A. Cost Estimates	*YES*
B. Geographic Maps	*YES*
C. One-lines	*YES*
D. Load Sheets	*YES*
E. Initial Funding PAF	*YES*

Attachment - A: Cost Estimates

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$204,137
Contingency Amount:	$48,993
Estimate:	$253,129
Reimbursement:	$0
Net Amount:	**$253,129**
Description:	

Item Description	CU	$ / Per	Qty	Amount
EQUIPMENT OH - Conversion - CUTOVER 1 1ph OH xfmr, 1 3ph OH xfmr	23-OH58	[redacted]		$1,391.52
POLE OH - JUNCTION POLE - 3ph (Eversource custodian) 2 junction poles (NON-EVERSOURCE CUSTODIAN)	23-OH14A			$30,395.04
TRAFFIC OH/DB/UG - Traffic Control - Police Officer 2 officers for 4 days	23-ALL18			$8,000.00
OTHER OTHER 2 tap changes, P.26780 & P.2541	23-ALL14			$2,000.00
OTHER OTHER 30% contractor adder ($157,029*0.3)	23-ALL14			$47,109.00
XF OH - Stepdowns, 3-1ph - on one POLE 3-500 kVA Step-Down Xfmrs	23-OH50			$39,000.00
EQUIPMENT OH - Conversion Prep Work - 3ph 6 3ph locations	23-OH57			$16,068.00
OH WIRE OH - Line Extension - 3ph (556 kcmil) Extend 300' of 3ph w/ 477 AL TW	23-OH34			$46,800.00
OH WIRE OH - Remove circuit wire (3 phase) Remove 300' of 336 AAC	23-OH37A			$1,248.00
OTHER OTHER Remove 3-333 kVA step-down xfmrs	23-ALL14			$3,000.00
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average Switching	23-ALL17			$9,124.96

Figure 1: Option 3 (SDC Approved)

Estimate

Preliminary
Estimate Summary

Revision Number:	0
Contingency:	24.00%
SubTotal:	$1,410,289
Contingency Amount:	$338,469
Estimate:	$1,748,759
Reimbursement:	$0
Net Amount:	**$1,748,759**
Description:	

Item Description	CU	$ / Per	Qty	Amount
SECTIONALIZE OH - Cutouts or Arresters - 1ph 1 Cutout for a side tap	23-OH19	[redacted]		$1,782.56
SECTIONALIZE OH - Cutouts or Arresters - 3ph 2 Cutouts for step-down xfmrs, 1 Cutout for a side tap	23-OH20			$9,029.28
TRAFFIC OH/DB/UG - Traffic Control - Police Officer 2 officers for 10 days	23-ALL18			$20,000.00
EQUIPMENT OH - Conversion - CUTOVER 23 OH 1 ph xfmrs	23-OH58			$16,002.48
EQUIPMENT OH - Conversion Prep Work - 1ph 24 1ph locations	23-OH56			$38,563.20
XF OH - OH XF or Regulator 3 step-down xfmrs, 24 OH 1ph xfmrs, 1 OH 3ph xfmr, 2 voltage regula	23-OH51			$0.00
OTHER OTHER 30% contractor adder ($1,084,839*0.3)	23-ALL14			$325,452.00
XF OH - Stepdown - 1ph - on POLE 3-500 kVA Step-Down Xfmrs	23-OH49			$26,520.00
EQUIPMENT OH - Conversion Prep Work - 3ph 40 3ph locations	23-OH57			$107,120.00

Figure 2A: Option 1

POLE OH - POLE - 1ph (Telephone custodian) additional 50% pole replacement	23-OH11	[redacted]	$26,826.80
POLE OH - POLE - 3ph (Telephone custodian) additional 50% pole replacement	23-OH12		$87,932.00
POLE OH - JUNCTION POLE - 3ph (Eversource custodian) additional 50% pole replacement (NON-EVERSOURCE CUSTODIAN	23-OH14A		$45,592.56
SECTIONALIZE 3PH Tripsaver Install 140K TripSavers	23-OH41B		$23,000.00
EQUIPMENT OH - Regulator - 1ph - on POLE Install 2 Voltage Regulators	23-OH47		$42,848.00
SECTIONALIZE 1PH Tripsaver Install 40K TripSaver	23-OH41A		$8,000.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) Reconductor 2,300' of 1ph	23-OH25		$71,760.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil Reconductor 6,900' of 3ph w/ 477 AL TW	23-OH27		$413,608.00
OH WIRE OH - Remove circuit wire (1 phase) Remove 2,300' of 2ph	23-OH37		$14,352.00
OTHER OTHER Remove 2-114 kVA Voltage regulators	23-ALL14		$3,000.00
OH WIRE OH - Remove circuit wire (3 phase) Remove 6,900' of 3ph	23-OH37A		$17,056.00
OTHER OTHER Remove old cluster-mounted step-down xfmrs	23-ALL14		$3,000.00
XF OH - OH XF's - bank of 3-1ph Replace 1 OH 3ph xfmr (4.8 kV)	23-OH46		$6,524.96
XF OH - OH XF - 1ph Replace 23 OH 1ph xfmrs (13.8 kV), Install 1 OH 1ph xfmr (4.8 kV)	23-OH45		$65,819.52
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average Switching	23-ALL17		$36,499.84

Figure 2B: Option 1

Project Approval Form

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$2,456,617
Contingency Amount:	$589,588
Estimate:	$3,046,205
Reimbursement:	$0
Net Amount:	**$3,046,205**
Description:	

Item Description	CU	$ / Per	Qty	Amount
XF DB/UG - Padmount XF - 3ph 1 Pad-mount 3ph xfmr	23-UG131	[redacted]		$8,188.96
TRAFFIC OH/DB/UG - Traffic Control - Police Officer 2 officers for 20 days	23-ALL18			$40,000.00
OTHER OTHER 30% contractor adder ($1,889,706*0.3)	23-ALL14			$566,912.00
EQUIPMENT OH - Conversion Prep Work - 1ph 45 1ph locations	23-OH56			$72,306.00
XF OH - OH XF or Regulator 45 OH 1ph xfmrs, 6 OH 3ph xfmrs	23-OH51			$0.00
EQUIPMENT OH - Conversion - CUTOVER 45 OH 1ph xfmrs, 6 OH 3ph xfmrs. 3 Pad-mount xfmrs	23-OH58			$37,571.04
EQUIPMENT OH - Conversion Prep Work - 3ph 75 3ph locations	23-OH57			$200,850.00
POLE OH - POLE - 1ph (Telephone custodian) additional 50% pole replacement	23-OH11			$34,143.20
POLE OH - POLE - 3ph (Telephone custodian) additional 50% pole replacement	23-OH12			$134,212.00

Figure 3A: Option 2

POLE OH - POLE - 1ph (Eversource custodian) additional 50% pole replacement	23-OH13	[redacted]	$22,495.20
POLE OH - POLE - 3ph (Eversource custodian) additional 50% pole replacement	23-OH14		$18,236.40
POLE OH - JUNCTION POLE - 3ph (Eversource custodian) additional 50% pole replacement	23-OH14A		$30,395.04
POLE OH - JUNCTION POLE - 3ph (Eversource custodian) additional 50% pole replacement (NON-EVERSOURCE CUSTODIA	23-OH14A		$91,185.12
SECTIONALIZE OH - Cutouts or Arresters - 1ph Cutout for side tap	23-OH19		$1,782.56
OH WIRE OH - Neutral Install 1,100' neutral	23-OH31		$9,152.00
SECTIONALIZE 3PH Tripsaver Install 140K TripSavers, 100K TripSavers, and 40K TripSavers	23-OH41B		$69,000.00
SECTIONALIZE 1PH Tripsaver Install 40K TripSaver	23-OH41A		$8,000.00
OTHER OTHER Pad-mount transformer only - cost charged to DT annual project	23-ALL14		$1.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) Reconductor 4,600' of 1ph	23-OH25		$143,520.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil Reconductor 6,900' of 3ph w/ 477 AL TW	23-OH27		$696,072.00
OTHER OTHER Remove 2-114 kVA Voltage regulators	23-ALL14		$3,000.00
OH WIRE OH - Remove circuit wire (1 phase) Remove 4,600' of 2ph	23-OH37		$28,704.00

Figure 3B: Option 2

OH WIRE OH - Remove circuit wire (3 phase) Remove 6,900' of 3ph	23-OH37A	4.16 / FT
OTHER OTHER Remove old cluster-mounted step-down xfmrs, remove another single step-down	23-ALL14	1.00 / $
XF OH - OH XF - 1ph Replace 45 OH 1ph xfmrs	23-OH45	2742.48 / LOC
XF OH - OH XF's - bank of 3-1ph Replace 6 OH 3ph xfmrs	23-OH46	6524.96 / LOC
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average Switching	23-ALL17	4562.48 / EA

[redacted]

Figure 3C: Option 2

Project Approval Form

Estimate

	Preliminary Estimate Summary
Revision Number:	0
Contingency:	24.00%
SubTotal:	$2,218,588
Contingency Amount:	$532,461
Estimate:	$2,751,049
Reimbursement:	$0
Net Amount:	**$2,751,049**
Description:	

Item Description	CU	$ / Per	Qty	Amount
SECTIONALIZE OH - Cutouts or Arresters - 1ph 1 Cutout fro step-down	23-OH19	[redacted]		$3,565.12
XF OH - Stepdown - 1ph - on POLE 1-167 kVA Step-Down Xfmr	23-OH49			$8,840.00
SECTIONALIZE OH - Cutouts or Arresters - 3ph 2 N.O cutouts/solids by Route 8, 2 cutouts/fuses for step-down	23-OH20			$12,039.04
TRAFFIC OH/DB/UG - Traffic Control - Police Officer 2 officers for 20 days	23-ALL18			$40,000.00
EQUIPMENT OH - Conversion Prep Work - 3ph 21 3ph locations	23-OH57			$56,238.00
XF OH - OH XF or Regulator 23 OH 1ph xfmrs, 2 OH 3ph xfmrs	23-OH51			$0.00
EQUIPMENT OH - Conversion - CUTOVER 23 OH 1ph xfmrs, 2 OH 3ph xfmrs, 1 Pad-mounted xfmr	23-OH58			$18,089.76
SECTIONALIZE 3PH Tripsaver 3 TripSavers for 3ph locations	23-OH41B			$69,000.00
OTHER OTHER 30% contractor adder ($1,706,607*0.3)	23-ALL14			$511,982.00
XF OH - Stepdown - 1ph - on POLE 3-500 kVA Step-Down Xfmrs	23-OH49			$26,520.00
EQUIPMENT OH - Conversion Prep Work - 1ph 7 1ph locations	23-OH56			$11,247.60
POLE OH - POLE - 3ph (Telephone custodian) additional 50% pole replacement	23-OH12			$9,256.00

Figure 4A: Option 4

POLE OH - POLE - 1ph (Eversource custodian) additional 50% pole replacement	23-OH13	[redacted]	$14,996.80
POLE OH - POLE - 3ph (Eversource custodian) additional 50% pole replacement	23-OH14		$54,709.20
POLE OH - JUNCTION POLE - 3ph (Eversource custodian) additional 50% pole replacement	23-OH14A		$15,197.52
POLE OH - JUNCTION POLE - 3ph (Eversource custodian) additional 50% pole replacement (NON-EVERSOURCE CUSTODIAN	23-OH14A		$15,197.52
SECTIONALIZE OH-Vertical Disconnect Switches-600/900 amp 3-1ph Disconnect switches for north end of a/c transition	23-OH43		$13,368.16
OH WIRE OH - Line Extension w/Aerial Cable - (any gauge) Extend 2,700' of 3ph w/ 750 AL a/c	23-OH35		$505,440.00
OH WIRE OH - Line Extension - 3ph (556 kcmil) Extend 3,000' of 3ph w/ 477 AL TW	23-OH34		$468,000.00
OH WIRE OH - Neutral Extend 3,100' of neutral wire	23-OH31		$25,792.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-1ph (any gauge) Reconductor 1,200' of 1ph w/ 1/0 ACSR TW	23-OH25		$37,440.00
OH WIRE OH-Reconductor w/175 Mil Tree Wire-3ph- 556 kcmil Reconductor 2,150' of 3ph w/ 477 AL TW	23-OH27		$216,892.00
OTHER OTHER Remove 2 step-down xfmrs	23-ALL14		$3,000.00
OH WIRE OH - Remove circuit wire (3 phase) Remove 2,150' of 3ph	23-OH37A		$8,944.00
OH WIRE OH - Remove circuit wire (1 phase) Remove 4,200' of 2ph	23-OH37		$26,208.00
OTHER OTHER Shift taps from AB to BC	23-ALL14		$1,000.00
SWITCHING OH/DB/UG - SWITCHING NonNetwork - Average Switching	23-ALL17		$45,624.80

Figure 4B: Option 4

Attachment - B: Geographic Maps

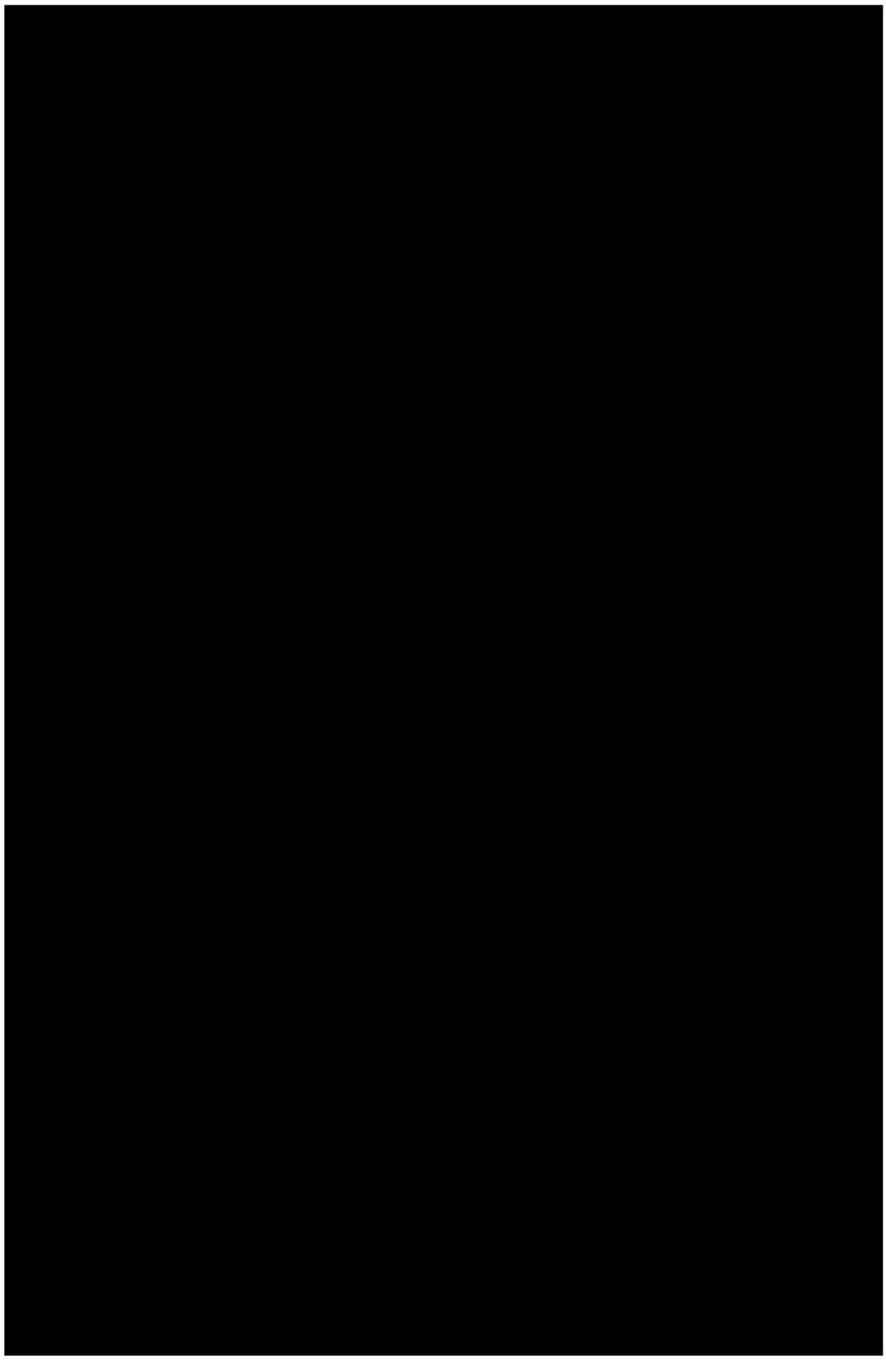


Figure 5: Circuit Map – Before

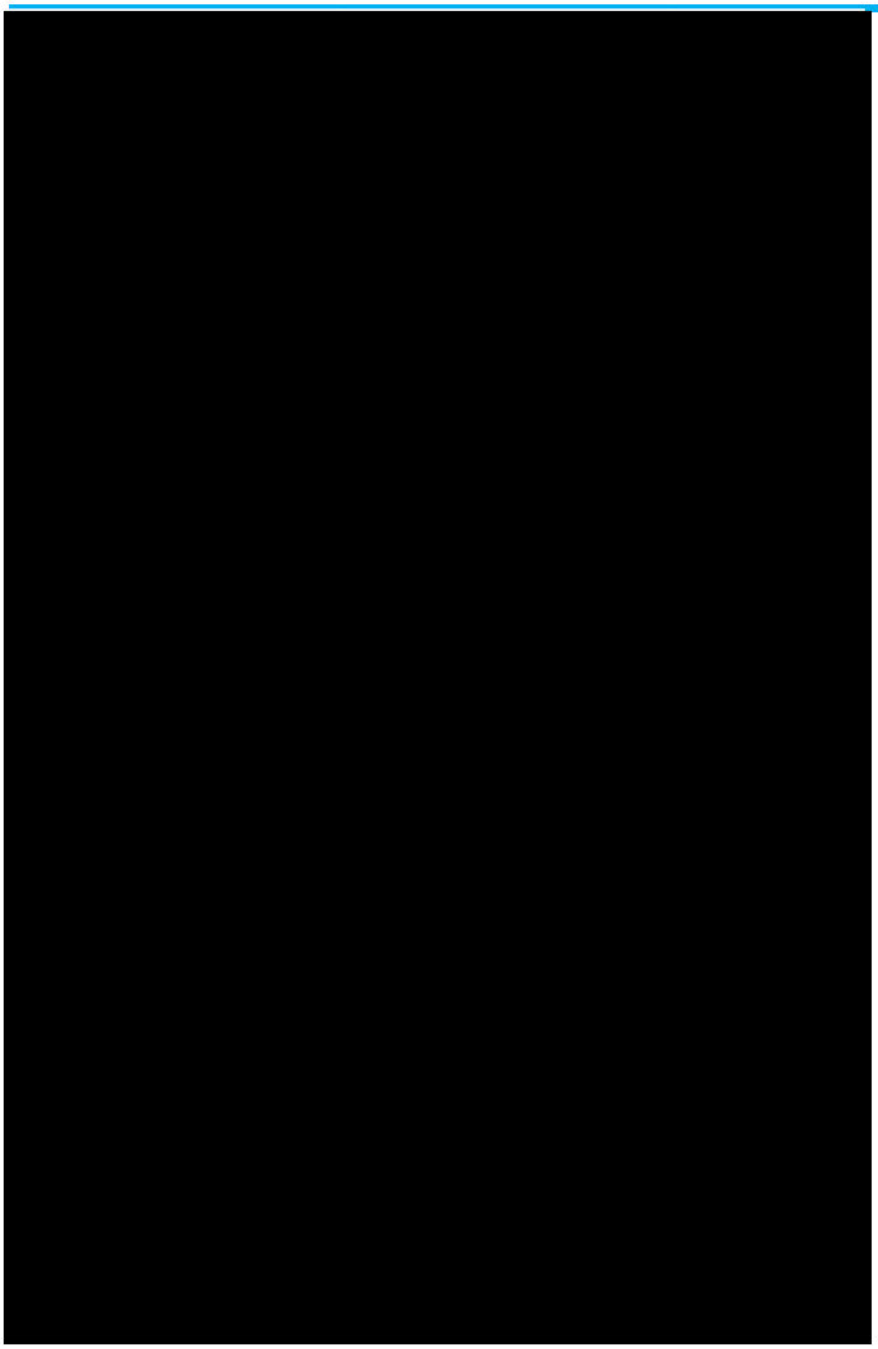


Figure 6: Circuit Map – Option 3 (SDC Approved)

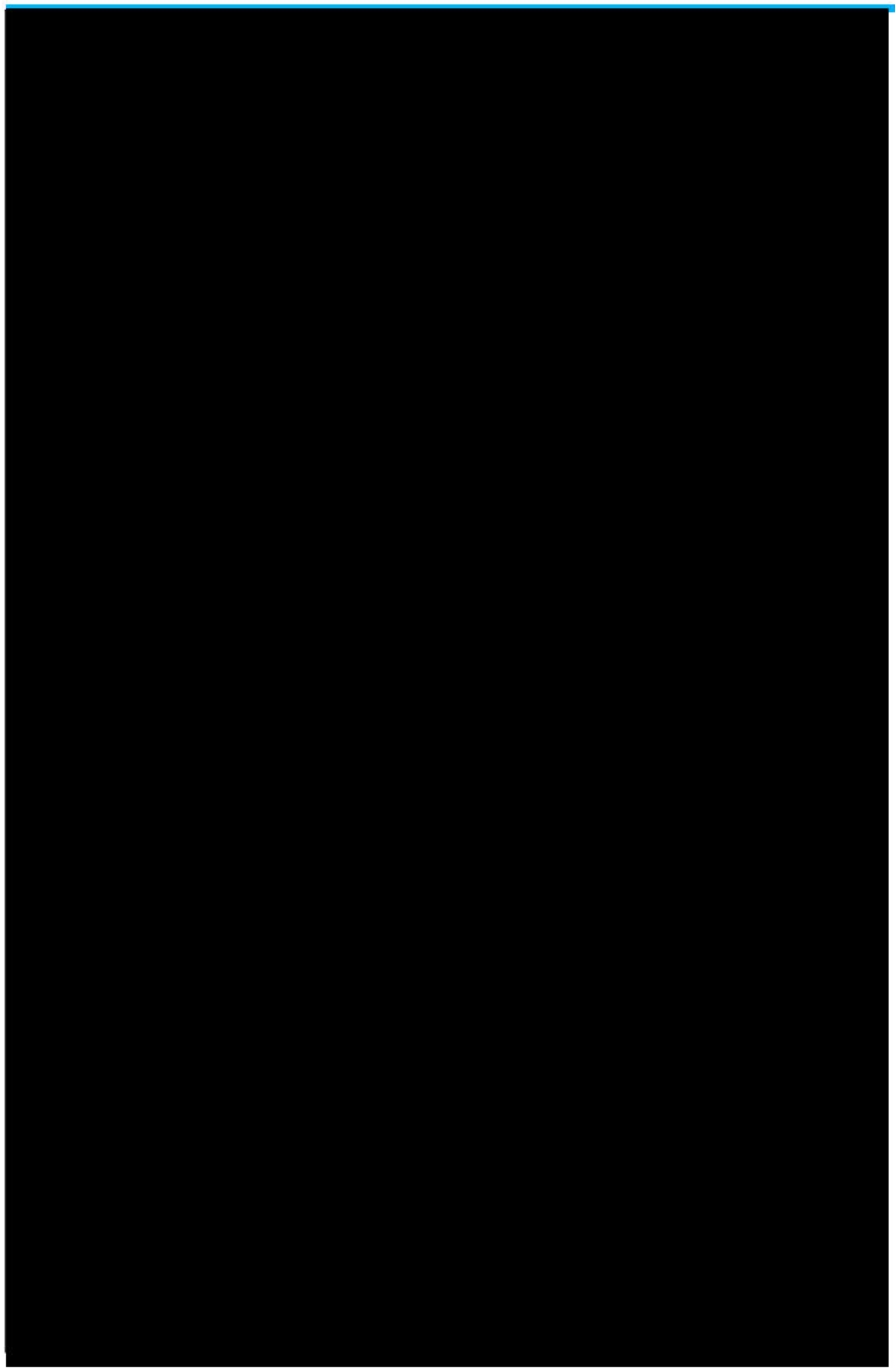


Figure 7A: Circuit Map – Option 1 Overall

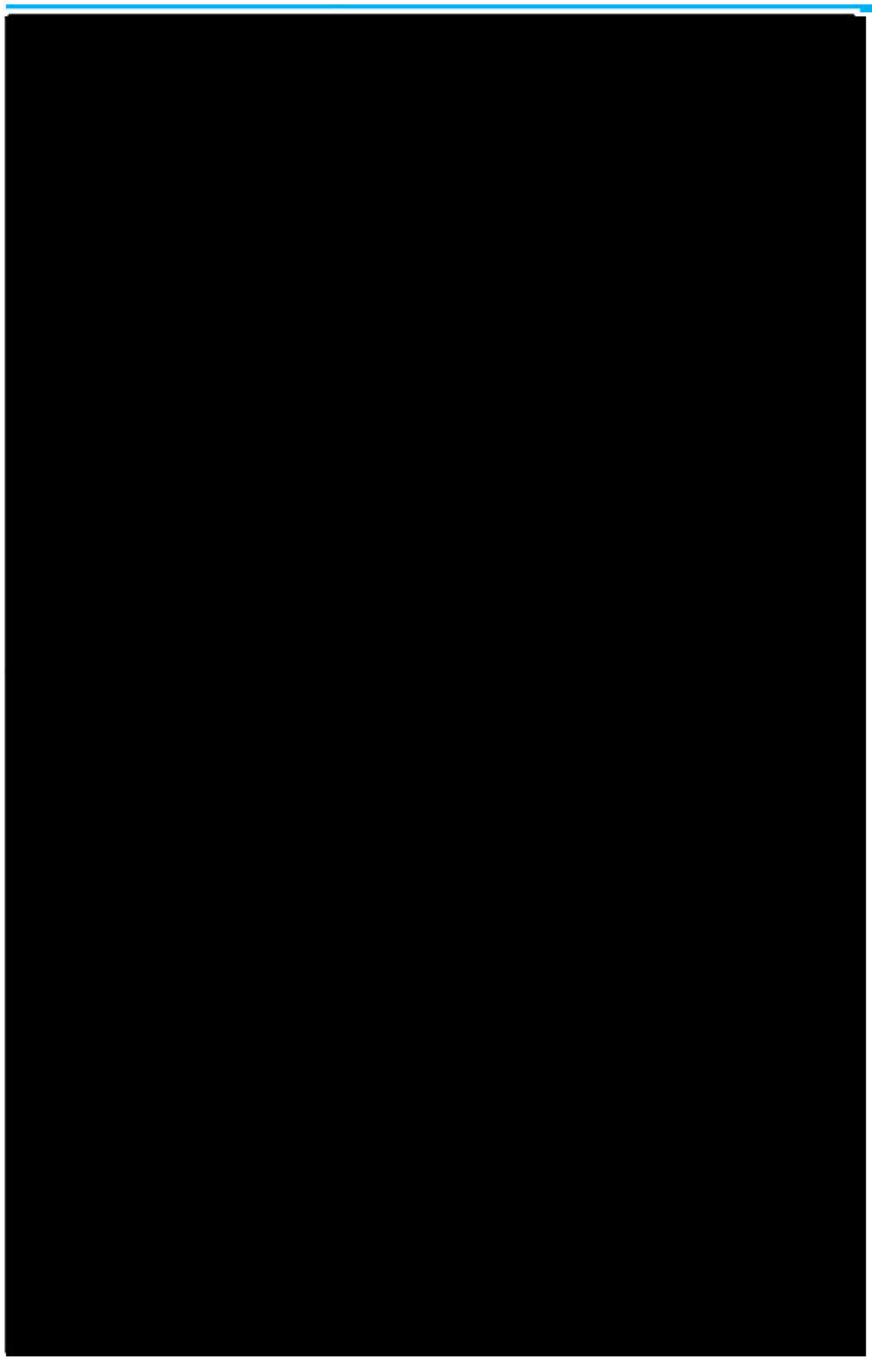


Figure 7B: Circuit Map – Option 1, Section 1

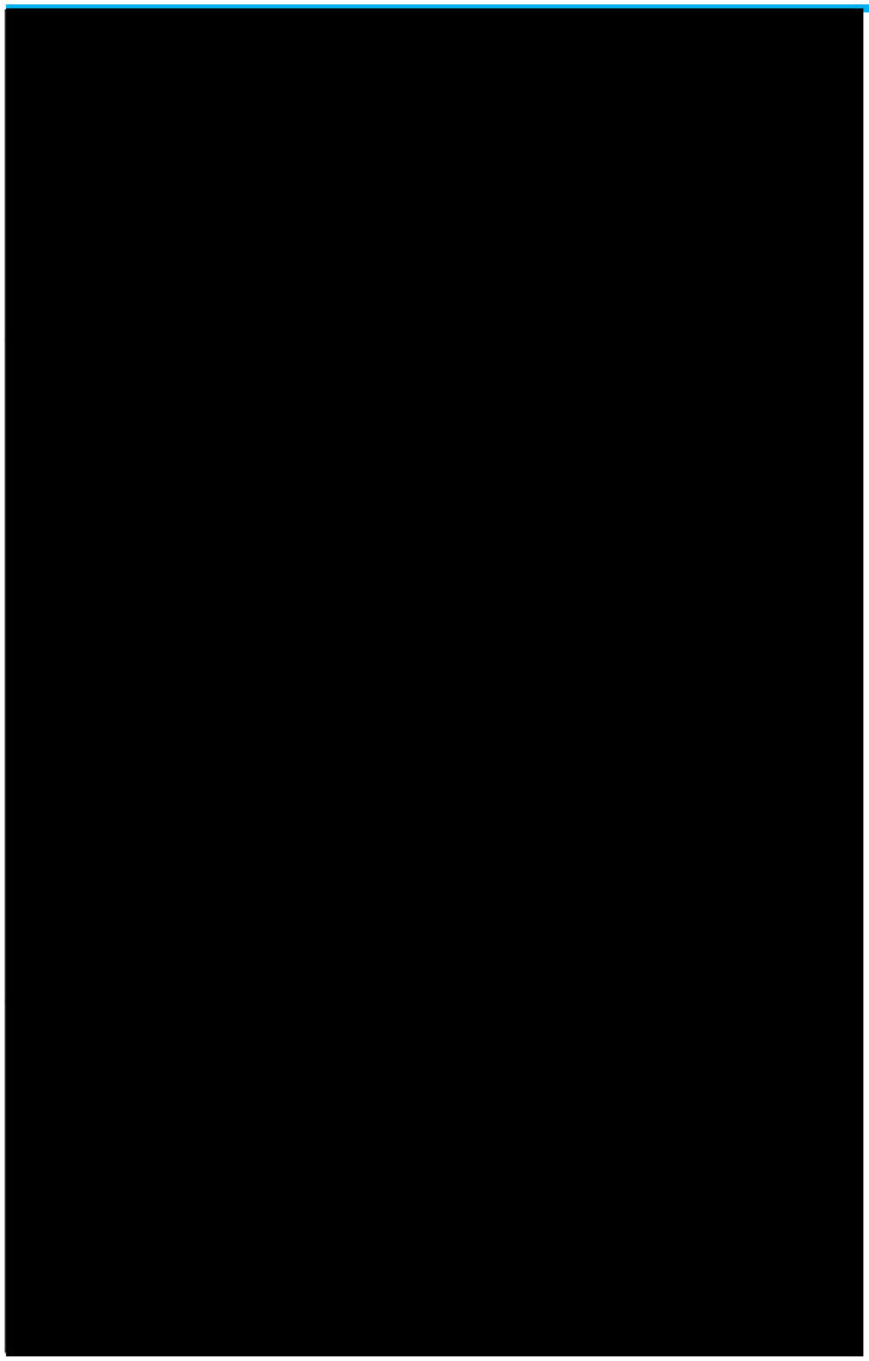


Figure 7C: Circuit Map – Option 1, Section 2

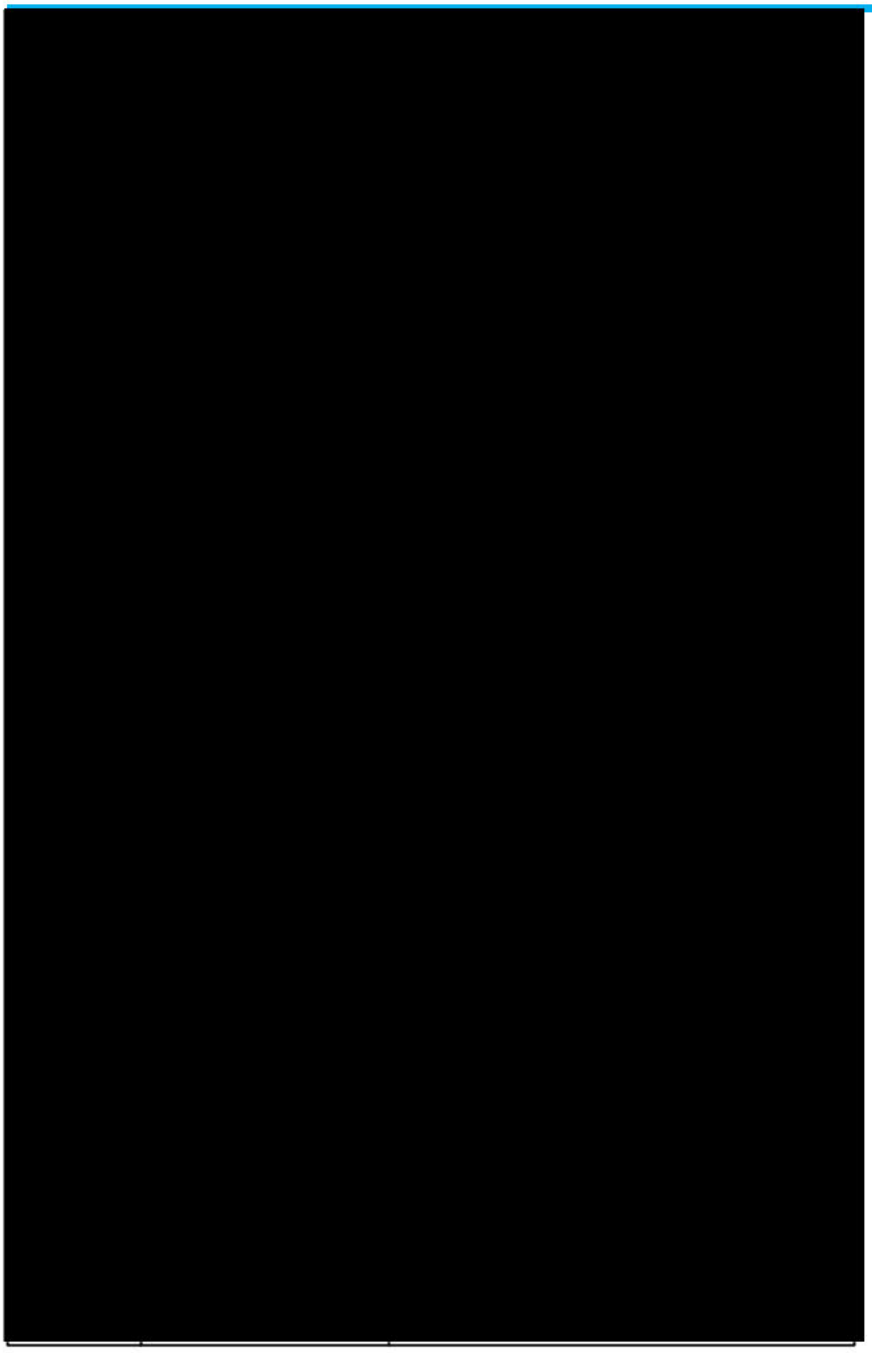


Figure 8A: Circuit Map – Option 2 Overall

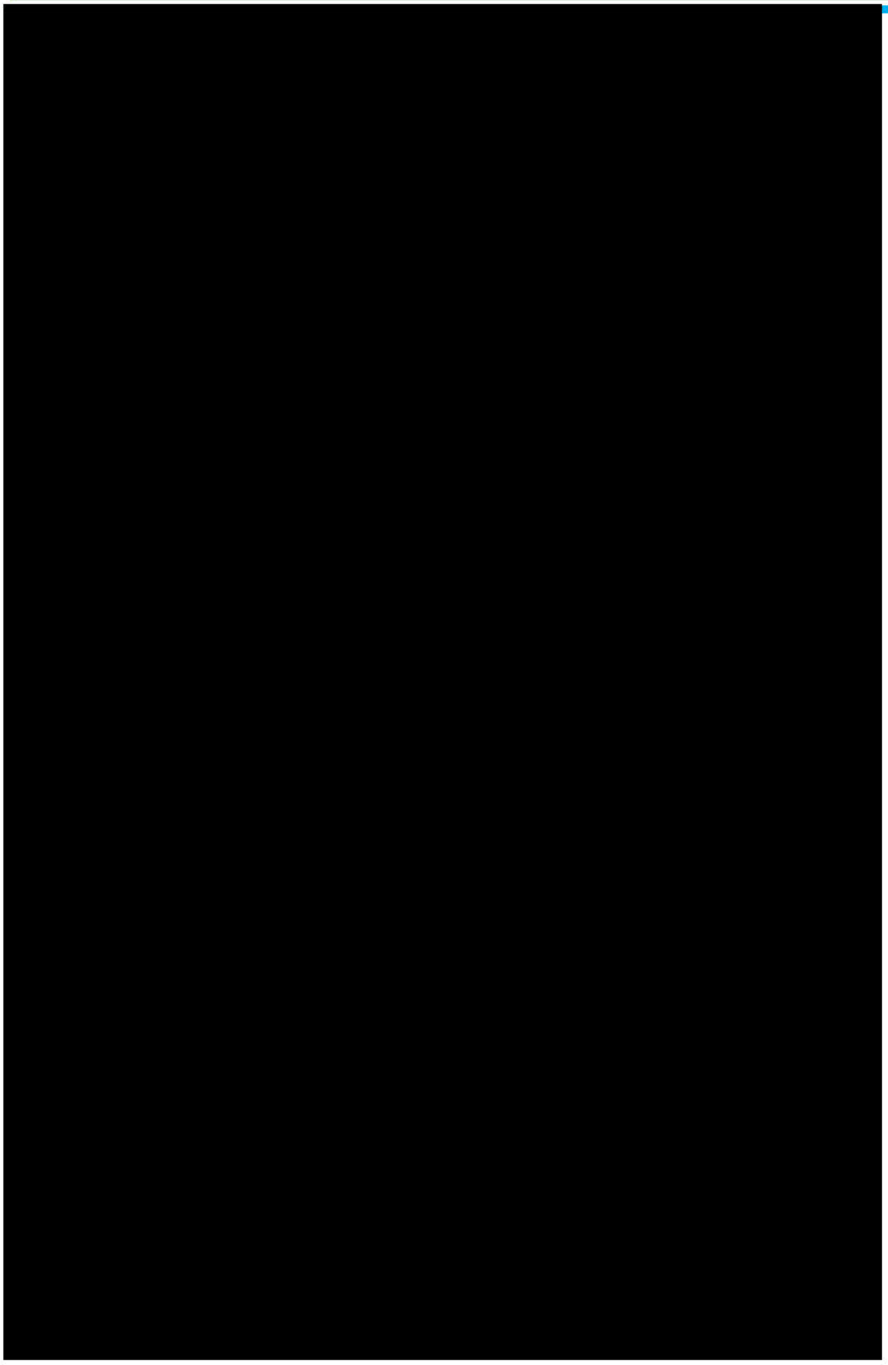


Figure 8B: Circuit Map – Option 2, Section 1

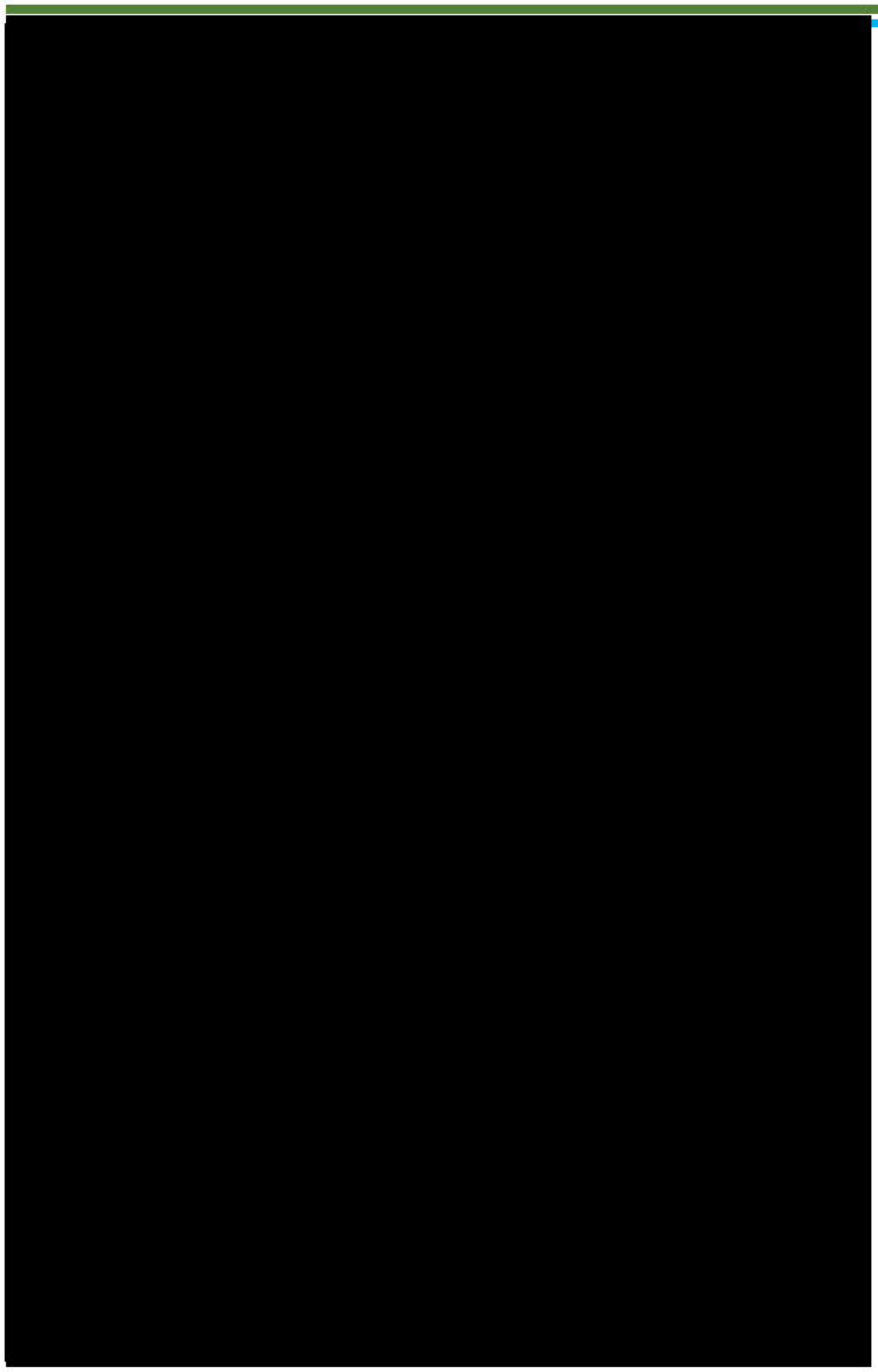


Figure 8C: Circuit Map – Option 2, Section 2

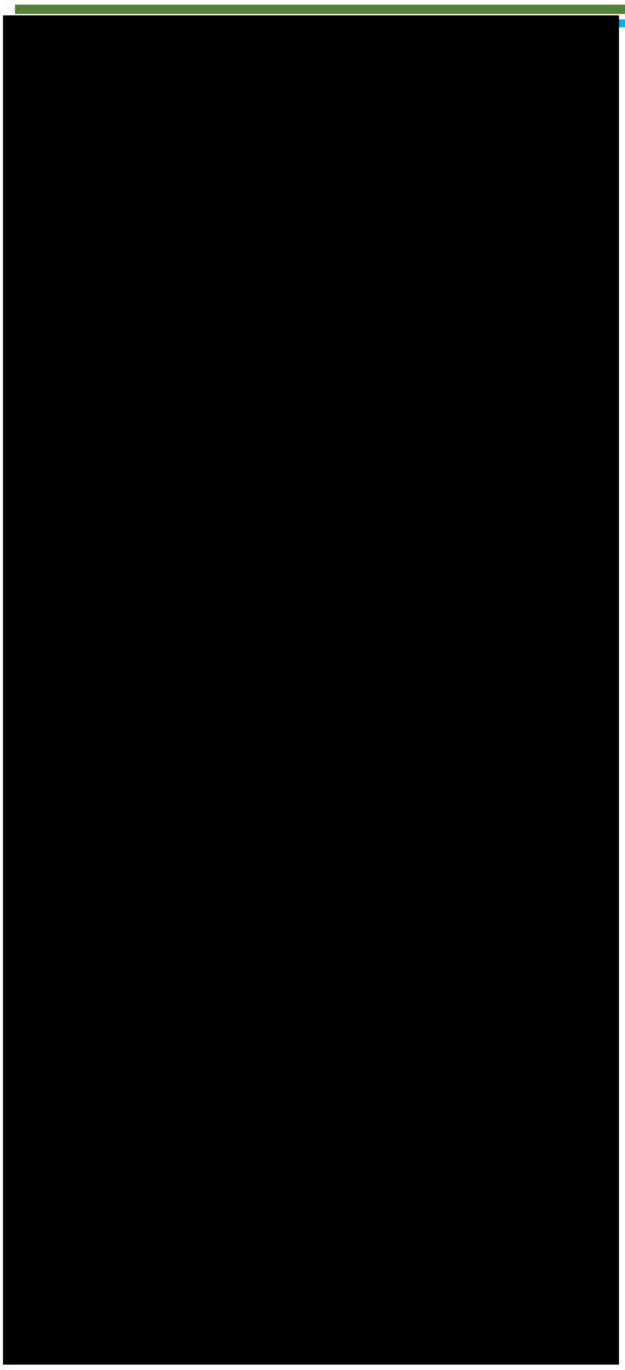


Figure 9A: Circuit Map – Option 4 Before

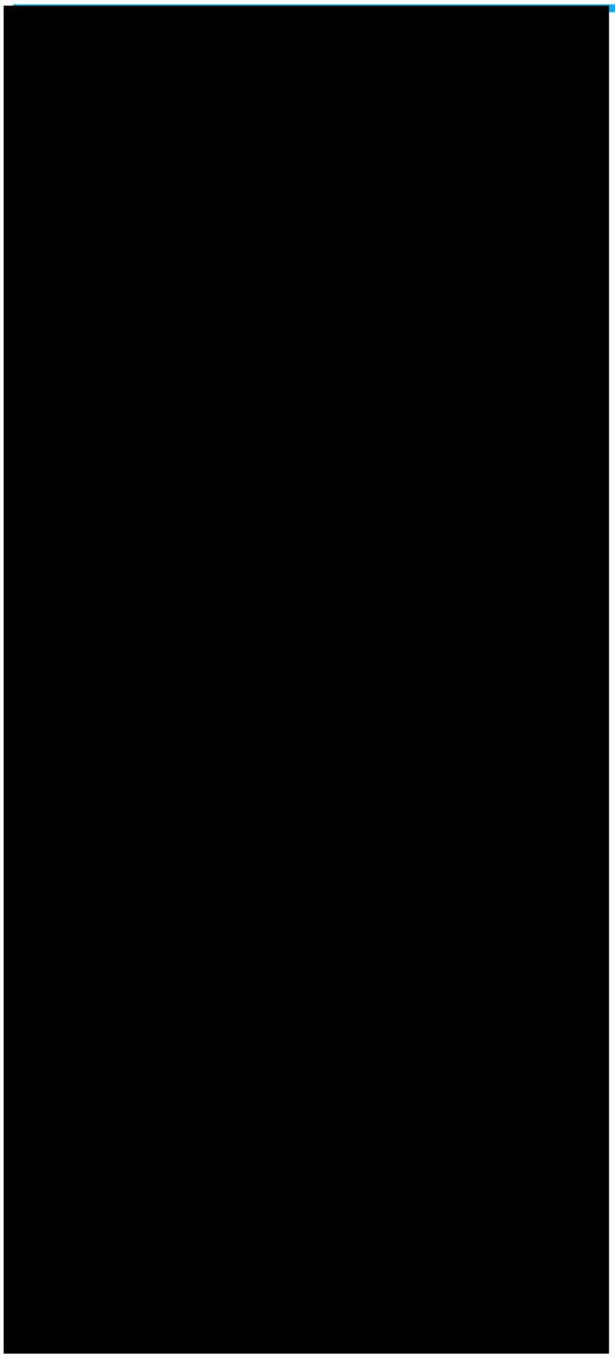


Figure 9B: Circuit Map – Option 4 After

Attachment - C: One-lines



Figure 10: One-line Before



Figure 11: One-line After (Option 3*, SDC Approved)



Figure 12: One-line After (Option 1)

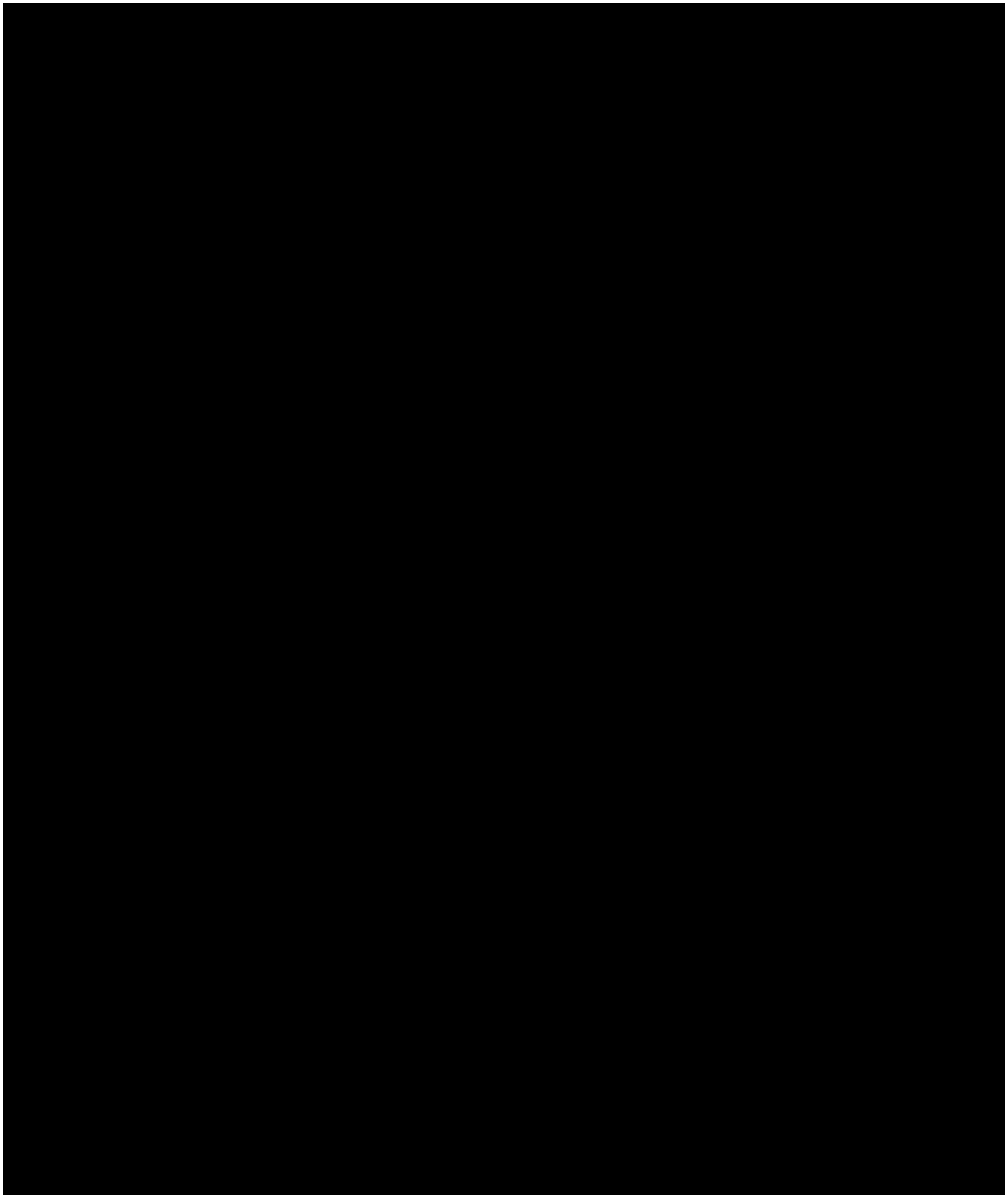


Figure 13: One-line After (Option 2)



Figure 14: One-line After (Option 4)

Attachment - D: Load Sheets



[redacted]

[redacted]



Attachment - E: Initial Funding PAF

EVERSOURCE

Project Approval Form

Project Title: [redacted] Spruce St Overloaded Step	**Project Number: CD02409**
Date Prepared: 02/09/2024	**Company:** Eversource CT
Organization: Distribution Engineering	**Class(es) of Plant:** D Line
Project Initiator: [redacted]	**Project Category:** OVERLOADS-SPECIFIC PROJECTS
Project Manager: [redacted]	**Project Type:** Specific
Project Sponsor: [redacted]	**Capital Investment part of 5-year plan?** No
	Emergency Related Request? No
Total Request: $30,000	**Authorization Type:** Initial Funding

1. Project Need Statement

[redacted]

Title: [redacted]
Division: Western
District: Newtown AWC
Town(s): Seymour

2. Project Objectives

The objective for this project is to resolve the overloaded step-downs at this location. This initial funding request is to develop multiple solutions for said overload. The initial requested amount is $30,000.

Project Initiator: _[redacted]_____

Engineering Approval: _____

1

Refer to Distribution Capital Project Approval Process
JA-AM-2001-B, Rev.1