


























































































## Appendix – Technical Specifications

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- I. Sample Project Schedule
- II. Bill of Non-Stock Materials
- III. Project Summary (Appendix)
- IV. Single Line Sequence
- V. Bid Drawings

## Attachment C - Construction Schedule

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	<div><div>5</div><div>Aug</div><div>Sep</div><div>Qtr 4, 2026</div><div>Oct</div><div>Nov</div><div>Dec</div><div>Qtr 1, 2027</div><div>Jan</div><div>Feb</div><div>Mar</div><div>Qtr 2, 2027</div><div>Apr</div><div>May</div></div>													
1			<b>JEA - College St. Switchgear Replacement (No Weekends)</b>	<b>154 days</b>	<b>Tue 9/1/26</b>	<b>Fri 4/2/27</b>															
2			Contractor Mobilization	5 days	Tue 9/1/26	Mon 9/7/26															
3			<b>SEQUENCE 1A (NO OUTAGE)</b>	<b>34 days</b>	<b>Tue 9/8/26</b>	<b>Fri 10/23/26</b>															
4			1.1 Portion of 1940 building concrete slab removed	3 days	Tue 9/8/26	Thu 9/10/26	2														
5			1.2 Cable trench constructed in 1940 building	3 days	Fri 9/11/26	Tue 9/15/26	4														
6			1.3 1940 building floor re-surfaced	2 days	Fri 9/11/26	Mon 9/14/26	4														
7			1.4 Cable Vault cleared out, cable supports and sump pump installed.	2 days	Fri 9/11/26	Mon 9/14/26	4														
8			1.5 Knockouts installed from 1940 building cable vault to 1964 basement. Sump pump AC supply cable pulled.	1 day	Tue 9/15/26	Tue 9/15/26	7														
9			1.6 Knockouts for bus duct 1 and 2 installed in wall between 1940 and 1964 buildings	1 day	Tue 9/15/26	Tue 9/15/26	7														
10			1.7 Ground leads installed in 1940 building	1 day	Wed 9/16/26	Wed 9/16/26	9														
11			1.8 Bus Duct 1 and associated supports installed	5 days	Thu 9/17/26	Wed 9/23/26	10														
12			1.9 Bus Duct 2 and associated supports installed	3 days	Thu 9/17/26	Mon 9/21/26	10														
13			1.10 East Switchgear(New) installed in 1940 building	7 days	Tue 9/22/26	Wed 9/30/26	12														
14			1.11 Cable tray installed in 1940 building	1 day	Thu 10/1/26	Thu 10/1/26	12,13														
15			1.12 East Switchgear(New) low voltage cables pulled	3 days	Thu 10/1/26	Mon 10/5/26	13,8														
16			1.13 Wiring East Switchgear(New)	7 days	Tue 10/6/26	Wed 10/14/26	15														
17			1.14 East Switchgear(New) testing and commissioning	7 days	Thu 10/15/26	Fri 10/23/26	16														
18			<b>SEQUENCE 1B (OUTAGE 1)</b>	<b>7 days</b>	<b>Mon 10/26/26</b>	<b>Tue 11/3/26</b>															
19			1.15 Outage switching	1 day	Mon 10/26/26	Mon 10/26/26	17														
20			1.16 Bus Duct 2 high voltage testing	1 day	Tue 10/27/26	Tue 10/27/26	19														
21			1.17 Bus Duct 2 Ductor testing	1 day	Wed 10/28/26	Wed 10/28/26	20														
22			1.18 Bus duct 1 connection to T1 bus installed	2 days	Thu 10/29/26	Fri 10/30/26	21														
23			1.19 Breaker ET1(Unit 23) connection to T1 bus removed	2 days	Mon 11/2/26	Tue 11/3/26	22														
24			<b>SEQUENCE 2 (Outage 2)</b>	<b>11 days</b>	<b>Wed 11/4/26</b>	<b>Wed 11/18/26</b>															
25			2.1 Panel #1 relocation to 1940 building, pulling new cables	3 days	Wed 11/4/26	Fri 11/6/26	23														
26			2.2 Wiring Panel #1	3 days	Mon 11/9/26	Wed 11/11/26	25														
27			2.3 Panel #1 Testing and Commissioning	5 days	Thu 11/12/26	Wed 11/18/26	26														
28			2.1 Feeders T1, 112, 149, 173 and 174 individually moved from East Switchgear(old) to East Switchgear(new), new cables pulled	5 days	Wed 11/4/26	Tue 11/10/26	23														
29			2.2 Feeders 114 and 178 individually moved from west switchgear(old) to East Switchgear(new), new cables pulled	2 days	Wed 11/11/26	Thu 11/12/26	28														
30			2.2 Feeder 135 installed at East Switchgear(new)	1 day	Fri 11/13/26	Fri 11/13/26	29														
31			<b>SEQUENCE 3A (Outage 3)</b>	<b>6 days</b>	<b>Fri 11/13/26</b>	<b>Fri 11/20/26</b>															
32			3.1 Outage Switching	1 day	Fri 11/13/26	Fri 11/13/26	29														
33			3.2 Bus Duct 2 connection made to T2 Bus and associated duct support installed	1 day	Mon 11/16/26	Mon 11/16/26	32														
34			3.3 Bus Duct 2 high voltage testing	1 day	Tue 11/17/26	Tue 11/17/26	33														

Project: Project1 Date: Thu 1/18/24	Task		Project Summary		Manual Task		Start-only		Deadline	
	Split		Inactive Task		Duration-only		Finish-only		Progress	
	Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
	Summary		Inactive Summary		Manual Summary		External Milestone			

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ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	5	Aug	Sep	Qtr 4, 2026	Oct	Nov	Dec	Qtr 1, 2027	Jan	Feb	Mar	Qtr 2, 2027	Apr	May
35			3.4 Bus Duct 2 Ductor testing	1 day	Wed 11/18/26	Wed 11/18/26	34														
36			3.5 East Switchgear (Old) ET2 cubicle connection to T2 bus removed	1 day	Thu 11/19/26	Thu 11/19/26	35,21														
37			3.6 Switching to end Outage 3	1 day	Fri 11/20/26	Fri 11/20/26	36														
38			SEQUENCE 3B (No Outage)	24 days	Fri 11/20/26	Wed 12/23/26															
39			3.7 East Switchgear(Old) removed	3 days	Mon 11/23/26	Wed 11/25/26	37														
40			3.8 West Switchgear(New) Installed (Excluding bus duct connections to T1 and T2 buses)	7 days	Fri 11/20/26	Mon 11/30/26	36														
41			3.9 West Switchgear(New) low voltage cables pulled	3 days	Tue 12/1/26	Thu 12/3/26	40														
42			3.10 Wiring West Switchgear(New)	7 days	Fri 12/4/26	Mon 12/14/26	41														
43			3.11 West Switchgear(New) testing and commissioning	7 days	Tue 12/15/26	Wed 12/23/26	42														
44			SEQUENCE 3C (Outage 4)	4 days	Thu 12/24/26	Tue 12/29/26															
45			3.12 Outage Switching	1 day	Thu 12/24/26	Thu 12/24/26	43														
46			3.13 Connection made from West Switchgear(New) cubicle 4 to T2 bus	1 day	Fri 12/25/26	Fri 12/25/26	45														
47			3.14 Bus duct high voltage testing	1 day	Mon 12/28/26	Mon 12/28/26	46														
48			3.15 Bus duct Ductor Testing	1 day	Tue 12/29/26	Tue 12/29/26	47														
49			SEQUENCE 4 (Outage 5)	4 days	Wed 12/30/26	Mon 1/4/27															
50			4.1 Outage Switching	1 day	Wed 12/30/26	Wed 12/30/26	48														
51			4.2 WT1(new) Cubicle Connection Made to T1 Bus Duct	1 day	Thu 12/31/26	Thu 12/31/26	50														
52			4.3 Bus duct high voltage testing	1 day	Fri 1/1/27	Fri 1/1/27	51														
53			4.4 Bus duct Ductor Testing	1 day	Mon 1/4/27	Mon 1/4/27	52														
54			SEQUENCE 5 (Outage 6)	13 days	Fri 1/1/27	Tue 1/19/27															
55			5.1 Panel #2 relocation to 1940 building, pulling new cables	3 days	Tue 1/5/27	Thu 1/7/27	53														
56			5.2 Wiring Panel #2	3 days	Fri 1/8/27	Tue 1/12/27	55														
57			5.3 Panel #2 Testing and Commissioning	5 days	Wed 1/13/27	Tue 1/19/27	56														
58			5.4 Feeders T2, 113, 136, 174 and 177 individually moved from West Switchgear(Old) to West Switchgear(New), new cables pulled	5 days	Fri 1/1/27	Thu 1/7/27	51														
59			5.5 Feeder 174 moved from East Switchgear(New) to West Switchgear(New)	1 day	Fri 1/8/27	Fri 1/8/27	58														
60			SEQUENCE 6 (Outage 7)	10 days	Mon 1/11/27	Fri 1/22/27															
61			6.1 Outage Switching	1 day	Mon 1/11/27	Mon 1/11/27	59														
62			6.1 West SWGR(OLD) Cubicles Removed (Excluding WT2 Cubicle)	7 days	Tue 1/12/27	Wed 1/20/27	61														
63			6.2 T1 bus duct segment to West SWGR(OLD) removed	2 days	Thu 1/21/27	Fri 1/22/27	62														
64			SEQUENCE 7 (Outage 8)	5 days	Mon 1/25/27	Fri 1/29/27															
65			7.1 Outage Switching	1 day	Mon 1/25/27	Mon 1/25/27	63														
66			7.2 T2 Bus Duct Segment to WT2(old) Removed	2 days	Tue 1/26/27	Wed 1/27/27	65														
67			7.3 WT2(old) Cubicle Removed	2 days	Thu 1/28/27	Fri 1/29/27	66														
68			SEQUENCE 8 (No Outage)	31 days	Mon 2/1/27	Mon 3/15/27															
69			8.1 Northwest Switchgear Installed in 1964 Building	14 days	Mon 2/1/27	Thu 2/18/27	67														
70			8.2 Northwest Switchgear low voltage cables pulled.	3 days	Fri 2/19/27	Tue 2/23/27	69														

Project: Project1

Date: Thu 1/18/24

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone
























































































Deadline

Progress



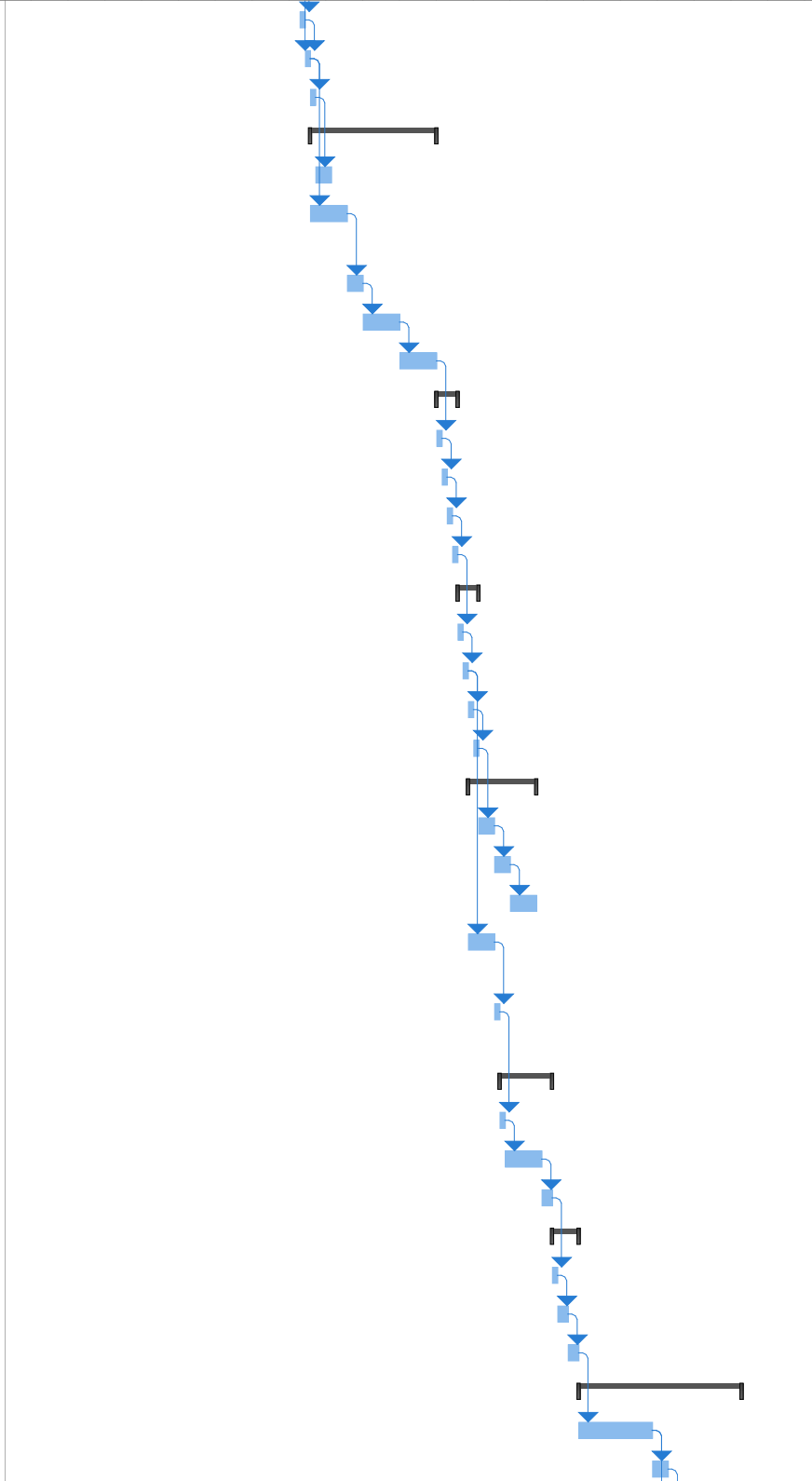



































Manual Progress

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ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	<div><div>1623306132027411182518222961320273101724317</div><div>Sep '26Oct '26Nov '26Dec '26Jan '27Feb '27</div></div>																							
1			JEA - College St. Switchgear Replacement (With Weekends)	154 days	Tue 9/1/26	Mon 2/1/27																									
2			Contractor Mobilization	5 days	Tue 9/1/26	Sat 9/5/26																									
3			SEQUENCE 1A (NO OUTAGE)	34 days	Sun 9/6/26	Fri 10/9/26																									
4			1.1 Portion of 1940 building concrete slab removed	3 days	Sun 9/6/26	Tue 9/8/26	2																								
5			1.2 Cable trench constructed in 1940 building	3 days	Wed 9/9/26	Fri 9/11/26	4																								
6			1.3 1940 building floor re-surfaced	2 days	Wed 9/9/26	Thu 9/10/26	4																								
7			1.4 Cable Vault cleared out, cable supports and sump pump installed.	2 days	Wed 9/9/26	Thu 9/10/26	4																								
8			1.5 Knockouts installed from 1940 building cable vault to 1964 basement. Sump pump AC supply cable pulled.	1 day	Fri 9/11/26	Fri 9/11/26	7																								
9			1.6 Knockouts for bus duct 1 and 2 installed in wall between 1940 and 1964 buildings	1 day	Fri 9/11/26	Fri 9/11/26	7																								
10			1.7 Ground leads installed in 1940 building	1 day	Sat 9/12/26	Sat 9/12/26	9																								
11			1.8 Bus Duct 1 and associated supports installed	5 days	Sun 9/13/26	Thu 9/17/26	10																								
12			1.9 Bus Duct 2 and associated supports installed	3 days	Sun 9/13/26	Tue 9/15/26	10																								
13			1.10 East Switchgear(New) installed in 1940 building	7 days	Wed 9/16/26	Tue 9/22/26	12																								
14			1.11 Cable tray installed in 1940 building	1 day	Wed 9/23/26	Wed 9/23/26	12,13																								
15			1.12 East Switchgear(New) low voltage cables pulled	3 days	Wed 9/23/26	Fri 9/25/26	13,8																								
16			1.13 Wiring East Switchgear(New)	7 days	Sat 9/26/26	Fri 10/2/26	15																								
17			1.14 East Switchgear(New) testing and commissioning	7 days	Sat 10/3/26	Fri 10/9/26	16																								
18			SEQUENCE 1B (OUTAGE 1)	7 days	Sat 10/10/26	Fri 10/16/26																									
19			1.15 Outage switching	1 day	Sat 10/10/26	Sat 10/10/26	17																								
20			1.16 Bus Duct 2 high voltage testing	1 day	Sun 10/11/26	Sun 10/11/26	19																								
21			1.17 Bus Duct 2 Ductor testing	1 day	Mon 10/12/26	Mon 10/12/26	20																								
22			1.18 Bus duct 1 connection to T1 bus installed	2 days	Tue 10/13/26	Wed 10/14/26	21																								
23			1.19 Breaker ET1(Unit 23) connection to T1 bus removed	2 days	Thu 10/15/26	Fri 10/16/26	22																								
24			SEQUENCE 2 (Outage 2)	11 days	Sat 10/17/26	Tue 10/27/26																									
25			2.1 Panel #1 relocation to 1940 building, pulling new cables	3 days	Sat 10/17/26	Mon 10/19/26	23																								
26			2.2 Wiring Panel #1	3 days	Tue 10/20/26	Thu 10/22/26	25																								
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28			2.1 Feeders T1, 112, 149, 173 and 174 individually moved from East Switchgear(old) to East Switchgear(new), new cables pulled	5 days	Sat 10/17/26	Wed 10/21/26	23																								
29			2.2 Feeders 114 and 178 individually moved from west switchgear(old) to East Switchgear(new), new cables pulled	2 days	Thu 10/22/26	Fri 10/23/26	28																								
30			2.2 Feeder 135 installed at East Switchgear(new)	1 day	Sat 10/24/26	Sat 10/24/26	29																								
31			SEQUENCE 3A (Outage 3)	6 days	Sat 10/24/26	Thu 10/29/26																									
32			3.1 Outage Switching	1 day	Sat 10/24/26	Sat 10/24/26	29																								
33			3.2 Bus Duct 2 connection made to T2 Bus and associated duct support installed	1 day	Sun 10/25/26	Sun 10/25/26	32																								
34			3.3 Bus Duct 2 high voltage testing	1 day	Mon 10/26/26	Mon 10/26/26	33																								
Project: Project1 Date: Thu 1/18/24			Task		Project Summary		Manual Task		Start-only		Deadline																				
			Split		Inactive Task		Duration-only		Finish-only		Progress																				
			Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress																				
			Summary		Inactive Summary		Manual Summary		External Milestone																						
Page 1																															



ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors																												
								16	23	Sep '26			Oct '26			Nov '26			Dec '26			Jan '27			Feb '27										
35			3.4 Bus Duct 2 Ductor testing	1 day	Tue 10/27/26	Tue 10/27/26	34																												
36			3.5 East Switchgear (Old) ET2 cubicle connection to T2 bus removed	1 day	Wed 10/28/26	Wed 10/28/26	35,21																												
37			3.6 Switching to end Outage 3	1 day	Thu 10/29/26	Thu 10/29/26	36																												
38			SEQUENCE 3B (No Outage)	24 days	Thu 10/29/26	Sat 11/21/26																													
39			3.7 East Switchgear(Old) removed	3 days	Fri 10/30/26	Sun 11/1/26	37																												
40			3.8 West Switchgear(New) Installed (Excluding bus duct connections to T1 and T2 buses)	7 days	Thu 10/29/26	Wed 11/4/26	36																												
41			3.9 West Switchgear(New) low voltage cables pulled	3 days	Thu 11/5/26	Sat 11/7/26	40																												
42			3.10 Wiring West Switchgear(New)	7 days	Sun 11/8/26	Sat 11/14/26	41																												
43			3.11 West Switchgear(New) testing and commissioning	7 days	Sun 11/15/26	Sat 11/21/26	42																												
44			SEQUENCE 3C (Outage 4)	4 days	Sun 11/22/26	Wed 11/25/26																													
45			3.12 Outage Switching	1 day	Sun 11/22/26	Sun 11/22/26	43																												
46			3.13 Connection made from West Switchgear(New) cubicle 4 to T2 bus	1 day	Mon 11/23/26	Mon 11/23/26	45																												
47			3.14 Bus duct high voltage testing	1 day	Tue 11/24/26	Tue 11/24/26	46																												
48			3.15 Bus duct Ductor Testing	1 day	Wed 11/25/26	Wed 11/25/26	47																												
49			SEQUENCE 4 (Outage 5)	4 days	Thu 11/26/26	Sun 11/29/26																													
50			4.1 Outage Switching	1 day	Thu 11/26/26	Thu 11/26/26	48																												
51			4.2 WT1(new) Cubicle Connection Made to T1 Bus Duct	1 day	Fri 11/27/26	Fri 11/27/26	50																												
52			4.3 Bus duct high voltage testing	1 day	Sat 11/28/26	Sat 11/28/26	51																												
53			4.4 Bus duct Ductor Testing	1 day	Sun 11/29/26	Sun 11/29/26	52																												
54			SEQUENCE 5 (Outage 6)	13 days	Sat 11/28/26	Thu 12/10/26																													
55			5.1 Panel #2 relocation to 1940 building, pulling new cables	3 days	Mon 11/30/26	Wed 12/2/26	53																												
56			5.2 Wiring Panel #2	3 days	Thu 12/3/26	Sat 12/5/26	55																												
57			5.3 Panel #2 Testing and Commissioning	5 days	Sun 12/6/26	Thu 12/10/26	56																												
58			5.4 Feeders T2, 113, 136, 174 and 177 individually moved from West Switchgear(Old) to West Switchgear(New), new cables pulled	5 days	Sat 11/28/26	Wed 12/2/26	51																												
59			5.5 Feeder 174 moved from East Switchgear(New) to West Switchgear(New)	1 day	Thu 12/3/26	Thu 12/3/26	58																												
60			SEQUENCE 6 (Outage 7)	10 days	Fri 12/4/26	Sun 12/13/26																													
61			6.1 Outage Switching	1 day	Fri 12/4/26	Fri 12/4/26	59																												
62			6.1 West SWGR(OLD) Cubicles Removed (Excluding WT2 Cubicle)	7 days	Sat 12/5/26	Fri 12/11/26	61																												
63			6.2 T1 bus duct segment to West SWGR(OLD) removed	2 days	Sat 12/12/26	Sun 12/13/26	62																												
64			SEQUENCE 7 (Outage 8)	5 days	Mon 12/14/26	Fri 12/18/26																													
65			7.1 Outage Switching	1 day	Mon 12/14/26	Mon 12/14/26	63																												
66			7.2 T2 Bus Duct Segment to WT2(old) Removed	2 days	Tue 12/15/26	Wed 12/16/26	65																												
67			7.3 WT2(old) Cubicle Removed	2 days	Thu 12/17/26	Fri 12/18/26	66																												
68			SEQUENCE 8 (No Outage)	31 days	Sat 12/19/26	Mon 1/18/27																													
69			8.1 Northwest Switchgear Installed in 1964 Building	14 days	Sat 12/19/26	Fri 1/1/27	67																												
70			8.2 Northwest Switchgear low voltage cables pulled.	3 days	Sat 1/2/27	Mon 1/4/27	69																												

Project: Project1

Date: Thu 1/18/24

Task

Split

Milestone

Summary

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Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks



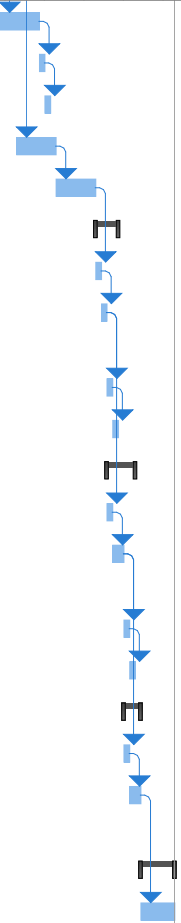











External Milestone

Deadline

Progress

Manual Progress

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ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Sep '26				Oct '26				Nov '26				Dec '26				Jan '27				Feb '27	
								16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10
71			8.3 T3 Bus duct to Future TX #3 Installed	7 days	Sat 1/2/27	Fri 1/8/27	69																						
72			8.4 Bus Duct 3 high voltage testing	1 day	Sat 1/9/27	Sat 1/9/27	71																						
73			8.5 Bus Duct 3 Ductor testing	1 day	Sun 1/10/27	Sun 1/10/27	72																						
74			8.6 Wiring Northwest Switchgear	7 days	Tue 1/5/27	Mon 1/11/27	70																						
75			8.7 Northwest Switchgear testing and commissioning	7 days	Tue 1/12/27	Mon 1/18/27	74																						
76			SEQUENCE 9 (Outage 9)	4 days	Tue 1/19/27	Fri 1/22/27																							
77			9.1 Outage switching	1 day	Tue 1/19/27	Tue 1/19/27	75																						
78			9.2 Bus Duct Segment from Northwest Switchgear Unit 11 Cubicle to T1 Bus Installed	1 day	Wed 1/20/27	Wed 1/20/27	77																						
79			9.3 Bus Duct 3 high voltage testing	1 day	Thu 1/21/27	Thu 1/21/27	78																						
80			9.4 Bus Duct 3 Ductor testing	1 day	Fri 1/22/27	Fri 1/22/27	79																						
81			SEQUENCE 10 (Outage 10)	5 days	Thu 1/21/27	Mon 1/25/27																							
82			10.1 Outage Switching	1 day	Thu 1/21/27	Thu 1/21/27	78																						
83			10.2 Bus Duct Segment from Northwest Switchgear Unit 1 Cubicle to T2 Bus Installed	2 days	Fri 1/22/27	Sat 1/23/27	82																						
84			10.3 Bus Duct 3 high voltage testing	1 day	Sun 1/24/27	Sun 1/24/27	83																						
85			10.4 Bus Duct 3 Ductor testing	1 day	Mon 1/25/27	Mon 1/25/27	84																						
86			SEQUENCE 11 (Outage 11)	3 days	Sun 1/24/27	Tue 1/26/27																							
87			11.1 Feeder 178 Moved From East Switchgear to Northwest Switchgear	1 day	Sun 1/24/27	Sun 1/24/27	83																						
88			11.2 Feeders 136 and 13T2 Moved From West Switchgear to Northwest Switchgear	2 days	Mon 1/25/27	Tue 1/26/27	87																						
89			SEQUENCE 12	6 days	Wed 1/27/27	Mon 2/1/27																							
90			12.1 Cables jumpered from West and Northwest Switchgear to Form Future Network Feeders (Double Breaker - Double Bus Configuration). Six Feeders Total.	6 days	Wed 1/27/27	Mon 2/1/27	88																						

Project: Project1  
Date: Thu 1/18/24

Task

Split

Milestone

Summary

◆

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

◆

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress

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**PROJECT DESIGN SEGMENT 20410**  
**College St 69/13KV SUBSTATION**  
**BILL OF NON-STOCK ELECTRICAL MATERIALS**

**GENERAL NOTES:**

1. THE PURPOSE OF THE NON-STOCK MATERIAL LIST IS TO IDENTIFY LONG LEAD TIME OR OTHERWISE UNIQUE OR IMPORTANT MATERIAL THAT IS TYPICALLY A NON-STOCK ITEM FOR JEA, OR IS NOT USUALLY STOCKED IN SUFFICIENT QUANTITY. THE MATERIAL MAY BE PROVIDED BY JEA TO THE CONTRACTOR, OR MAY BE REQUIRED TO BE PROCURED BY THE CONTRACTOR. ALL MATERIAL SHALL BE PROVIDED BY THE CONTRACTOR UNLESS NOTED AS BEING PROCURED BY "OWNER".
2. THE CONTRACTOR SHALL DETERMINE THE SCOPE OF SUPPLY BASED ON ENGINEERING DRAWINGS AND THE CONTRACT DOCUMENTS. THE MATERIAL REPRESENTED IN THE DOCUMENTS IS PROVIDED AS AN ENGINEERING ESTIMATE TO ASSIST WITH BIDDING AND PRELIMINARY PROJECT PLANNING. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL QUANTITIES.
3. ALL MATERIALS PROCURED OR RECEIVED BY THE CONTRACTOR SHALL REMAIN IN THE CARE, CUSTODY, AND CONTROL OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE. CONTRACTOR WILL BE RESPONSIBLE FOR ANY LOSS OR DAMAGE TO SAID MATERIAL.
4. ALL OTHER MATERIAL REQUIRED FOR A COMPLETE INSTALLATION THAT MAY BE REASONABLY INFERRED FROM THESE DRAWINGS AND SPECIFICATIONS, BUT NOT SPECIFICALLY LISTED, SHALL BE SUPPLIED BY THE CONTRACTOR IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS, BEST INDUSTRY PRACTICES, AND PREVAILING CUSTOM. LITERAL ADHERENCE SHALL NOT RELIEVE THE CONTRACTOR OF THE ULTIMATE RESPONSIBILITY FOR ACCOMPLISHING THE INTENT OF THE PROJECT. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO GROUNDING CONDUCTOR AND CONNECTORS, CLAMPS, FASTENERS, MISCELLANEOUS ELECTRICAL EQUIPMENT, WIREWAY, ELECTRICAL BOXES, RECEPTACLES, SWITCHES, TERMINAL BLOCKS, CONNECTORS, POWER CABLE, FITTINGS, ALL LABELING MATERIALS, ETC.

**FILE:** CO26 - BILL OF NON-STOCK MATERIALS

**DATE:** 8/16/2024

**PAGE:** 1 OF 2

**BILL OF NON-STOCK ELECTRICAL MATERIAL  
RIBAUT 69/13KV SUBSTATION**

ITEM #	QTY	DESCRIPTION	MANUFACTURER	PART #	COMMENTS	PROCUREMENT BY
1.	LOT	SWITCHGEAR LINEUP (3)	-----	-----	-----	MANUFACTURER
2.	LOT	NON-SEGREGATED BUS DUCT	-----	-----		MANUFACTURER

## Appendix - College Street Substation Switchgear

Project Description: Replacement of two existing switchgears, and addition of one new switchgear in two existing buildings. The switchgear manufacturer will also supply and install all new non-segregated, 3000 Amp rated Bus Duct. Manufacturer will also replace existing non-segregated 2000A bus duct with 3000A rated duct.

Voltage: 13.2kV

Switchgear Type: Arc quenching, Indoor switchgear

New Switchgear line-up in both 1940 and 1964 buildings: 3 new switchgear line-ups in total.

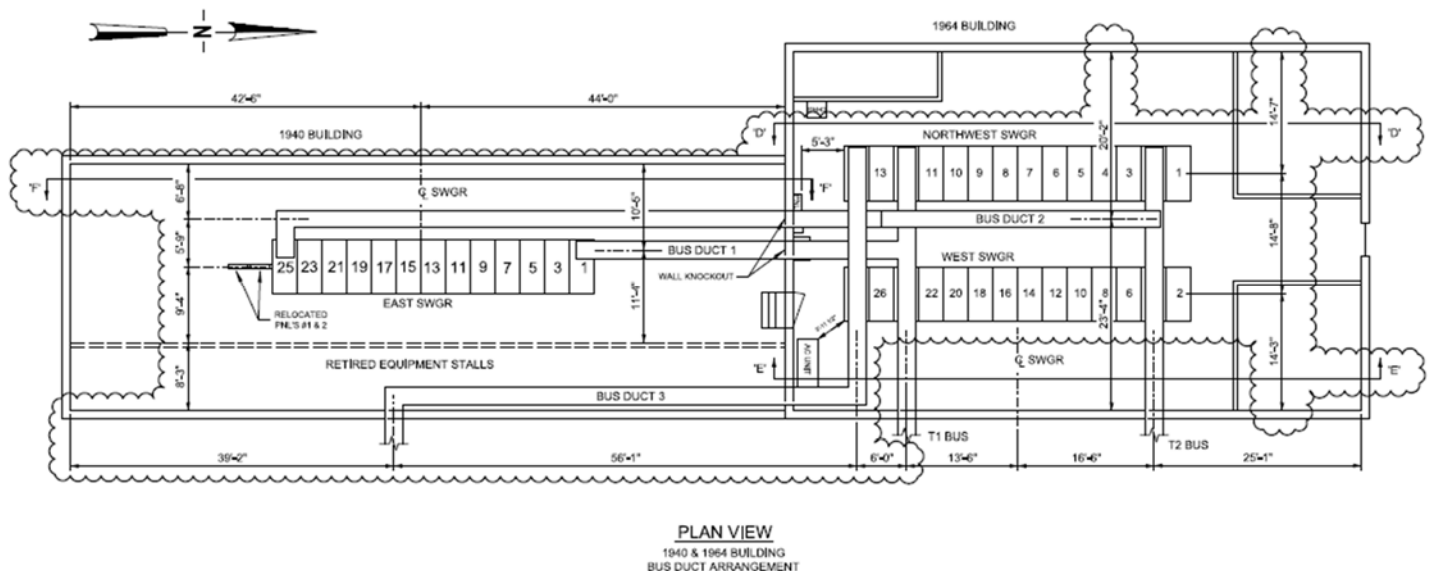
Cubicle dimensions: 36" width, max length of 6'8"

Switchgear cubicles (see design package attachments for plan layouts):

- 1964 building
  - New West switchgear - 14 cubicles, 13 breakers
  - Northeast switchgear - 14 cubicles, 13 breakers
- 1940 building
  - New East switchgear - 13 cubicles, 11 breakers
- Please refer to the one-line sequencing drawings for order in which the switchgears will be installed.
- No room onsite to store delivered switchgear cubicles. The manufacturer must be capable delivering each switchgear in a staggered timeframe which will be determined by the construction schedule.

The current staged delivery schedule is below, and is subject to change.

- Switchgear delivery 1 (New East): 9/22/2026
- Switchgear delivery 2 (New West): 11/20/2026
- Switchgear delivery 3 (New Northwest): 1/29/2027
- Switchgear and bus duct layout is subject to change. Refer to most recent project drawings for specific details.



## Appendix - College Street Substation Switchgear

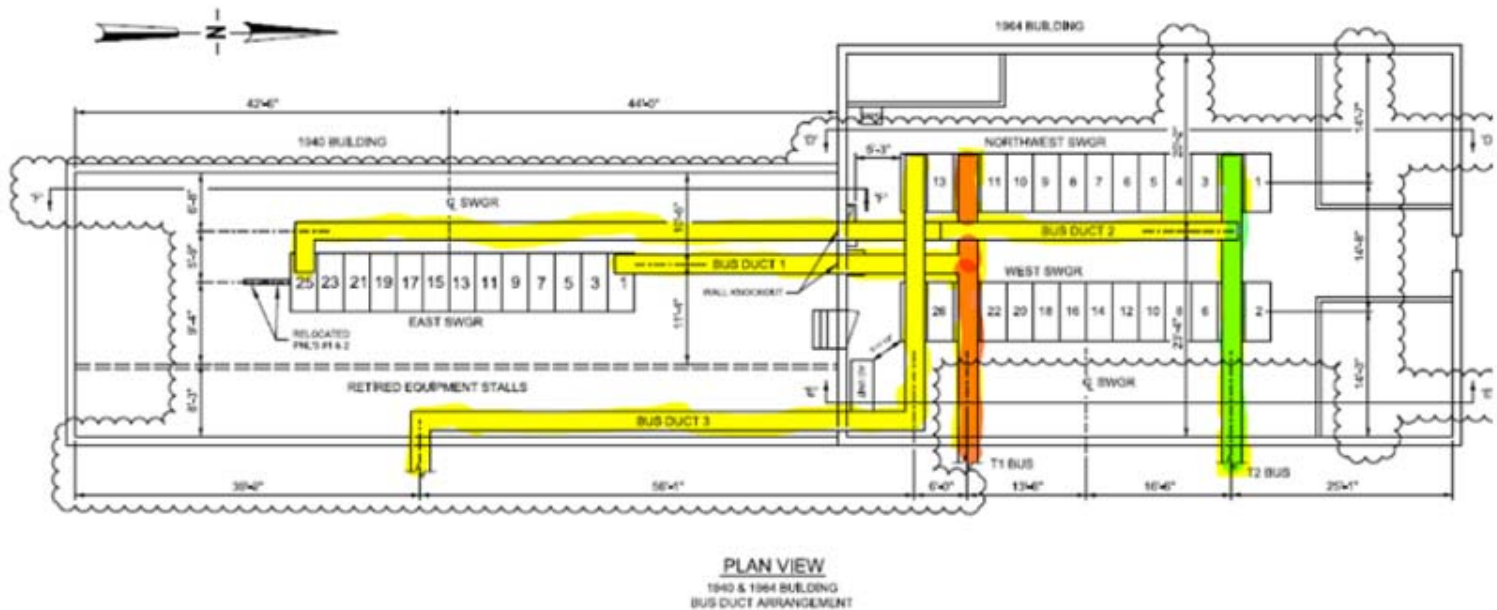
The following is when each section of bus duct is expected to be delivered to be installed per the construction schedule.

### New bus duct installation

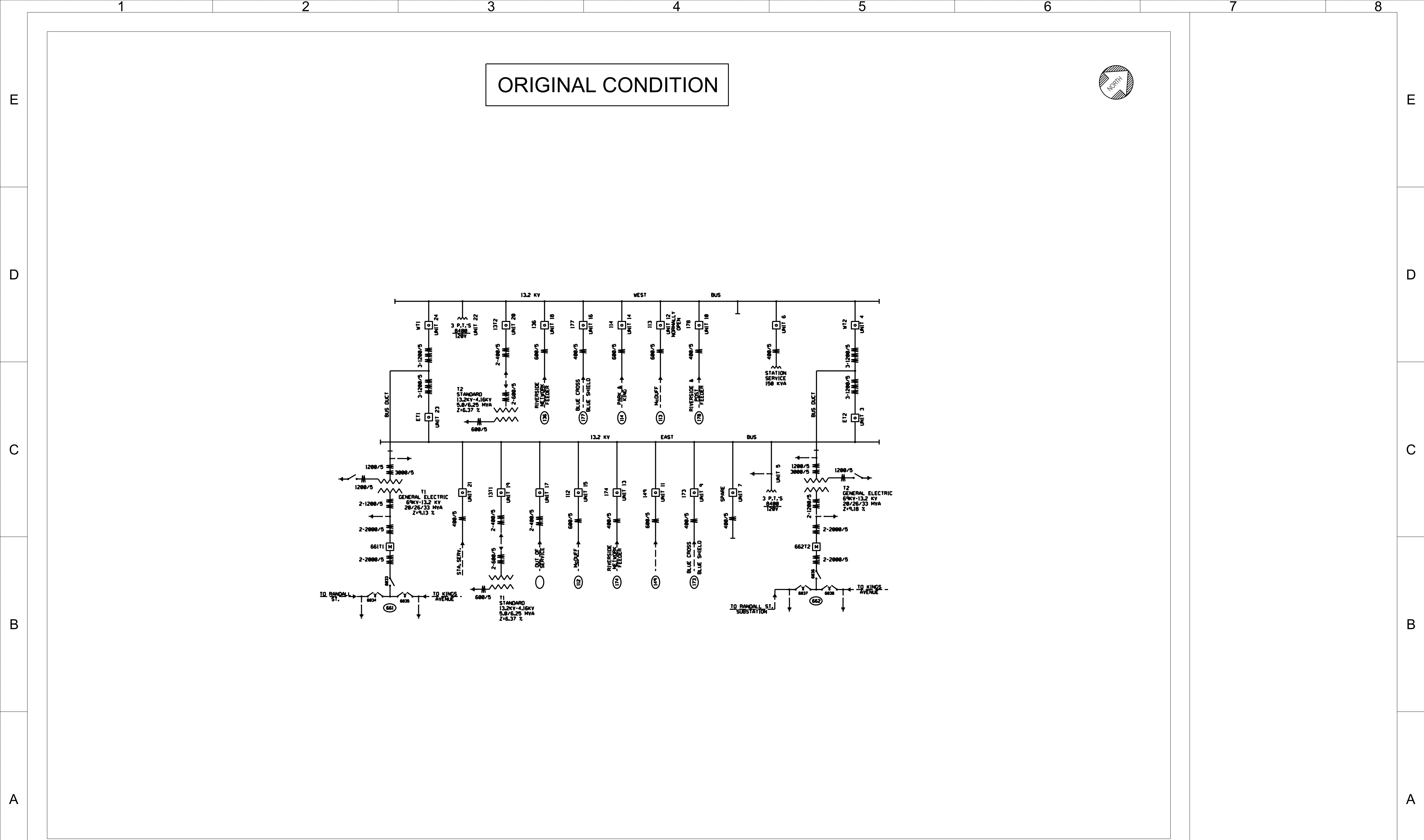
- T1 bus duct: 60' – 9/2026 (installed in sequence 1A)
- T2 bus duct: 130' – 9/2026 (installed in sequence 1A)
- T3 bus duct: 140' - 9/2026 (installed in sequence 1A) +

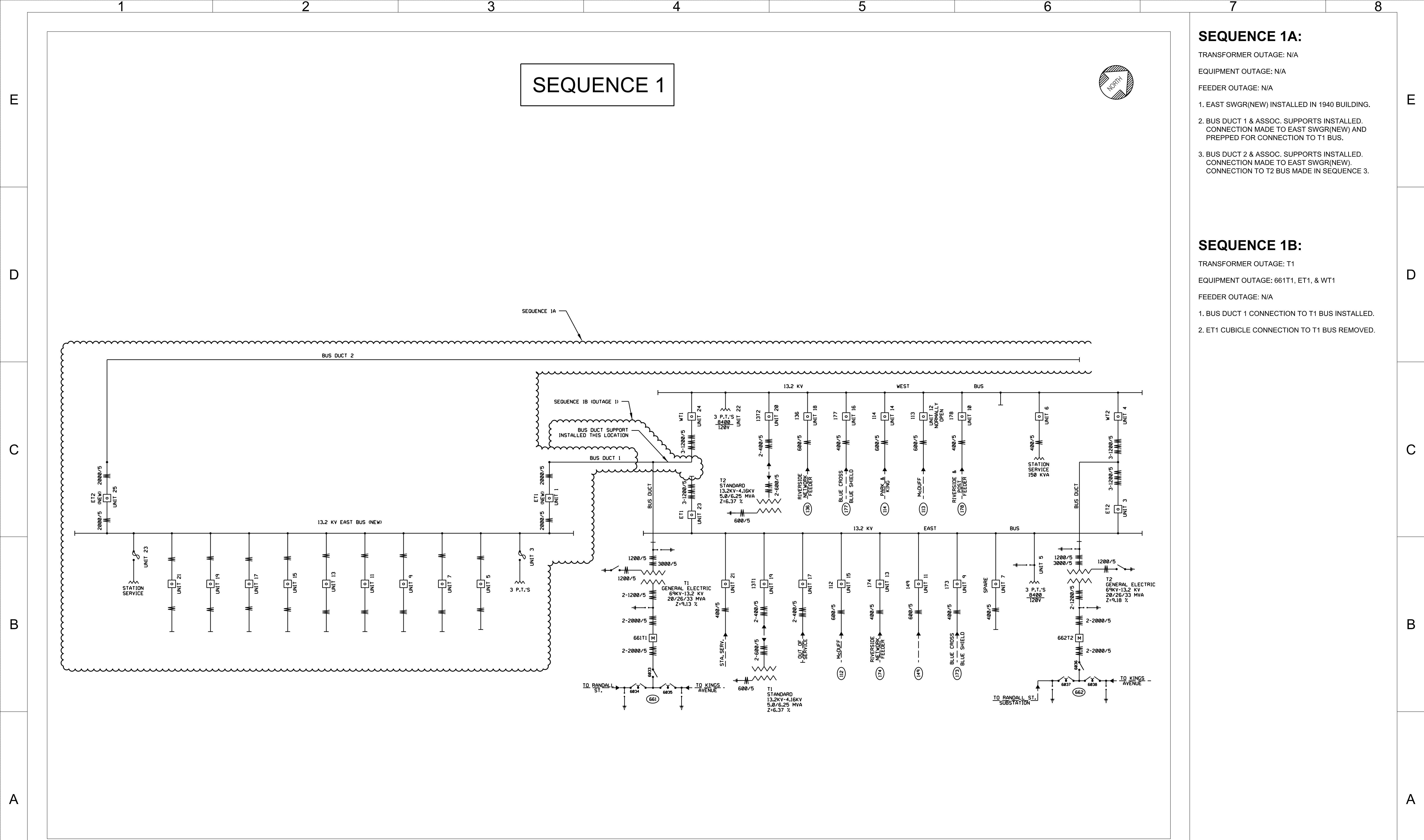
### Existing bus duct replacement

- T1 bus duct: 80' – 10/2026 (installed in sequence 1B)
- T2 bus duct: 65' – 11/2026 (installed in sequence 3A)



## Attachment B - Single Line Drawing





SEQUENCE 1A:

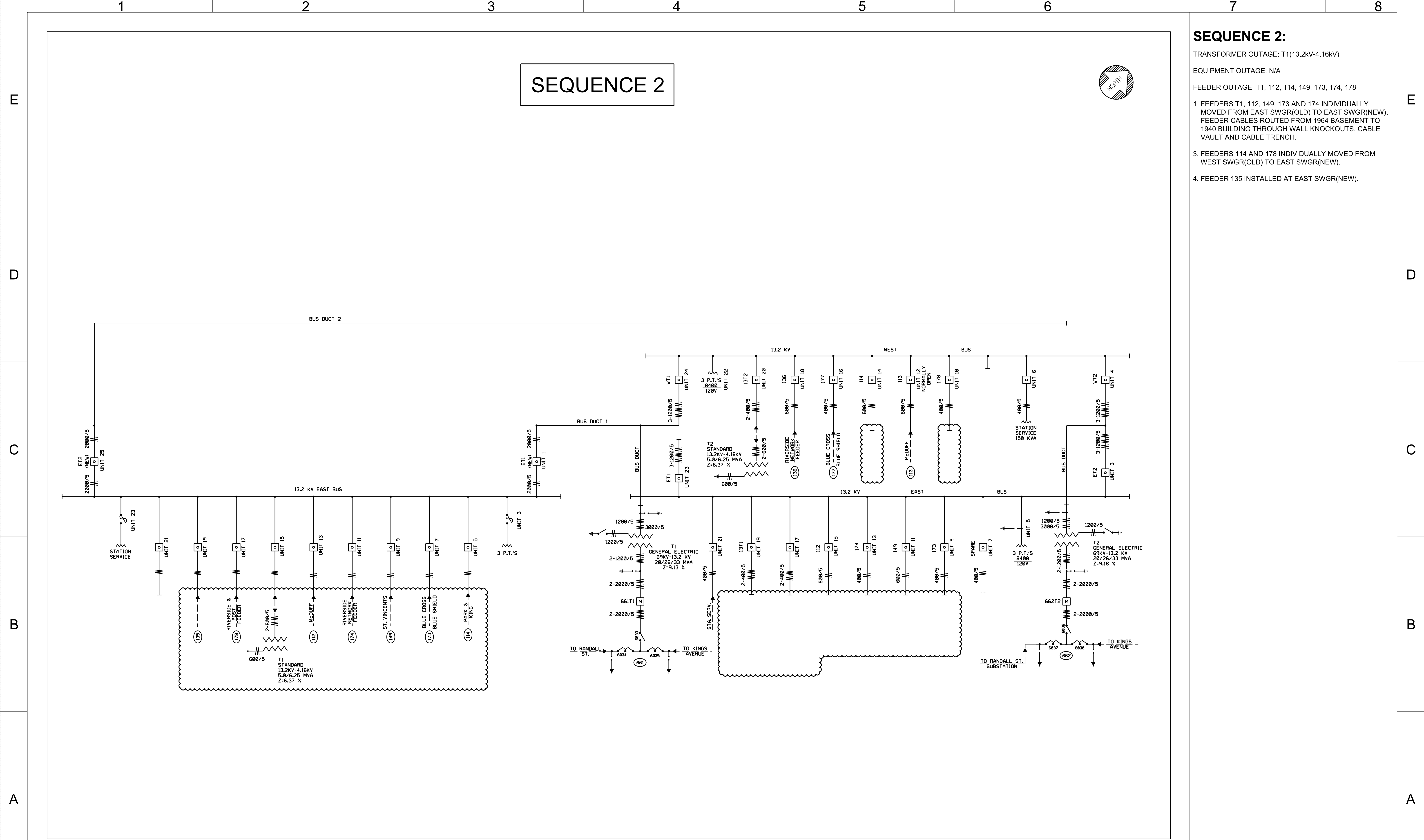
- TRANSFORMER OUTAGE: N/A
- EQUIPMENT OUTAGE: N/A
- FEEDER OUTAGE: N/A
- EAST SWGR(NEW) INSTALLED IN 1940 BUILDING.
  - BUS DUCT 1 & ASSOC. SUPPORTS INSTALLED. CONNECTION MADE TO EAST SWGR(NEW) AND PREPPED FOR CONNECTION TO T1 BUS.
  - BUS DUCT 2 & ASSOC. SUPPORTS INSTALLED. CONNECTION MADE TO EAST SWGR(NEW). CONNECTION TO T2 BUS MADE IN SEQUENCE 3.

SEQUENCE 1B:

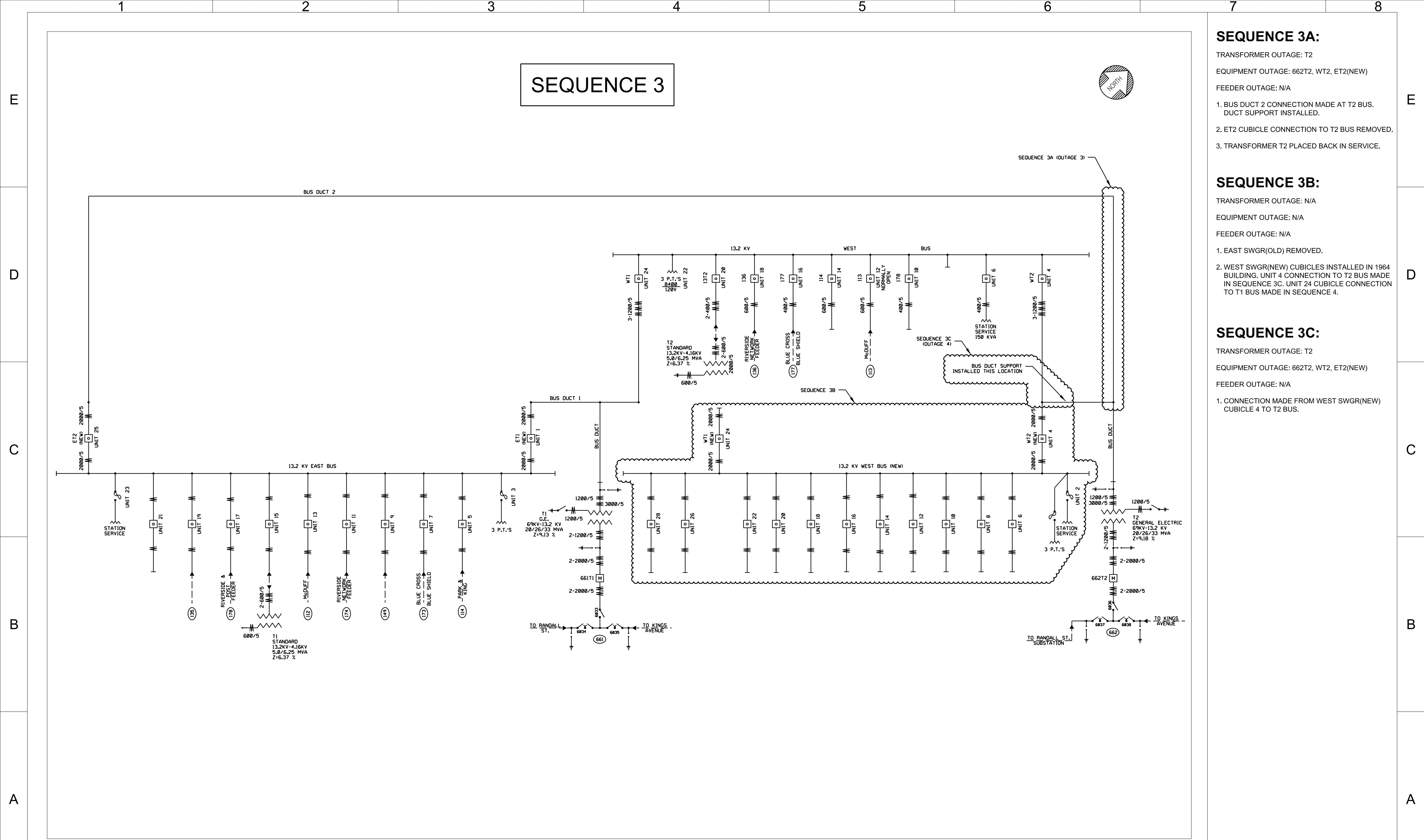
- TRANSFORMER OUTAGE: T1
- EQUIPMENT OUTAGE: 661T1, ET1, & WT1
- FEEDER OUTAGE: N/A
- BUS DUCT 1 CONNECTION TO T1 BUS INSTALLED.
  - ET1 CUBICLE CONNECTION TO T1 BUS REMOVED.

<div><div><div>JEACOLLEGE STREET SWITCHGEAR REPLACEMENT</div><div>21 W CHURCH ST. JACKSONVILLE, FLORIDA 32202</div></div></div>	CONSULTANT INFORMATION		PROFESSIONAL ENGINEER'S SEAL									COLLEGE STREET SWITCHGEAR REPLACEMENT				FILE NAME: CO2025SL2
	PRELIMINARY - NOT TO BE USED FOR CONSTRUCTION LEIDOS 5.19.23		ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF									SINGLE LINE				
			PE: _____		COLLEGE STREET SUBSTATION				PROJECT ID: CO2025							
			LIC. NO.: _____													
			STATE: _____		TRANSMISSION & SUBSTATION PROJECTS - 20410						SHEET NAME: SL2					
			DATE: _____													
			</													





- SEQUENCE 2:**
- TRANSFORMER OUTAGE: T1(13.2kV-4.16kV)
- EQUIPMENT OUTAGE: N/A
- FEEDER OUTAGE: T1, 112, 114, 149, 173, 174, 178
1. FEEDERS T1, 112, 149, 173 AND 174 INDIVIDUALLY MOVED FROM EAST SWGR(OLD) TO EAST SWGR(NEW). FEEDER CABLES ROUTED FROM 1964 BASEMENT TO 1940 BUILDING THROUGH WALL KNOCKOUTS, CABLE VAULT AND CABLE TRENCH.
  3. FEEDERS 114 AND 178 INDIVIDUALLY MOVED FROM WEST SWGR(OLD) TO EAST SWGR(NEW).
  4. FEEDER 135 INSTALLED AT EAST SWGR(NEW).



SEQUENCE 3A:

- TRANSFORMER OUTAGE: T2
- EQUIPMENT OUTAGE: 662T2, WT2, ET2(NEW)
- FEEDER OUTAGE: N/A
- BUS DUCT 2 CONNECTION MADE AT T2 BUS.  
DUCT SUPPORT INSTALLED.
  - ET2 CUBICLE CONNECTION TO T2 BUS REMOVED.
  - TRANSFORMER T2 PLACED BACK IN SERVICE.

SEQUENCE 3B:

- TRANSFORMER OUTAGE: N/A
- EQUIPMENT OUTAGE: N/A
- FEEDER OUTAGE: N/A
- EAST SWGR(OLD) REMOVED.
  - WEST SWGR(NEW) CUBICLES INSTALLED IN 1964 BUILDING. UNIT 4 CONNECTION TO T2 BUS MADE IN SEQUENCE 3C. UNIT 24 CUBICLE CONNECTION TO T1 BUS MADE IN SEQUENCE 4.

SEQUENCE 3C:

- TRANSFORMER OUTAGE: T2
- EQUIPMENT OUTAGE: 662T2, WT2, ET2(NEW)
- FEEDER OUTAGE: N/A
- CONNECTION MADE FROM WEST SWGR(NEW) CUBICLE 4 TO T2 BUS.

<div><div><div>JEA</div><div>21 W CHURCH ST. JACKSONVILLE, FLORIDA 32202</div></div></div>	CONSULTANT INFORMATION		PROFESSIONAL ENGINEER'S SEAL	<div><div>REV</div><div>DATE</div><div>PROJ #</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div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## SEQUENCE 4



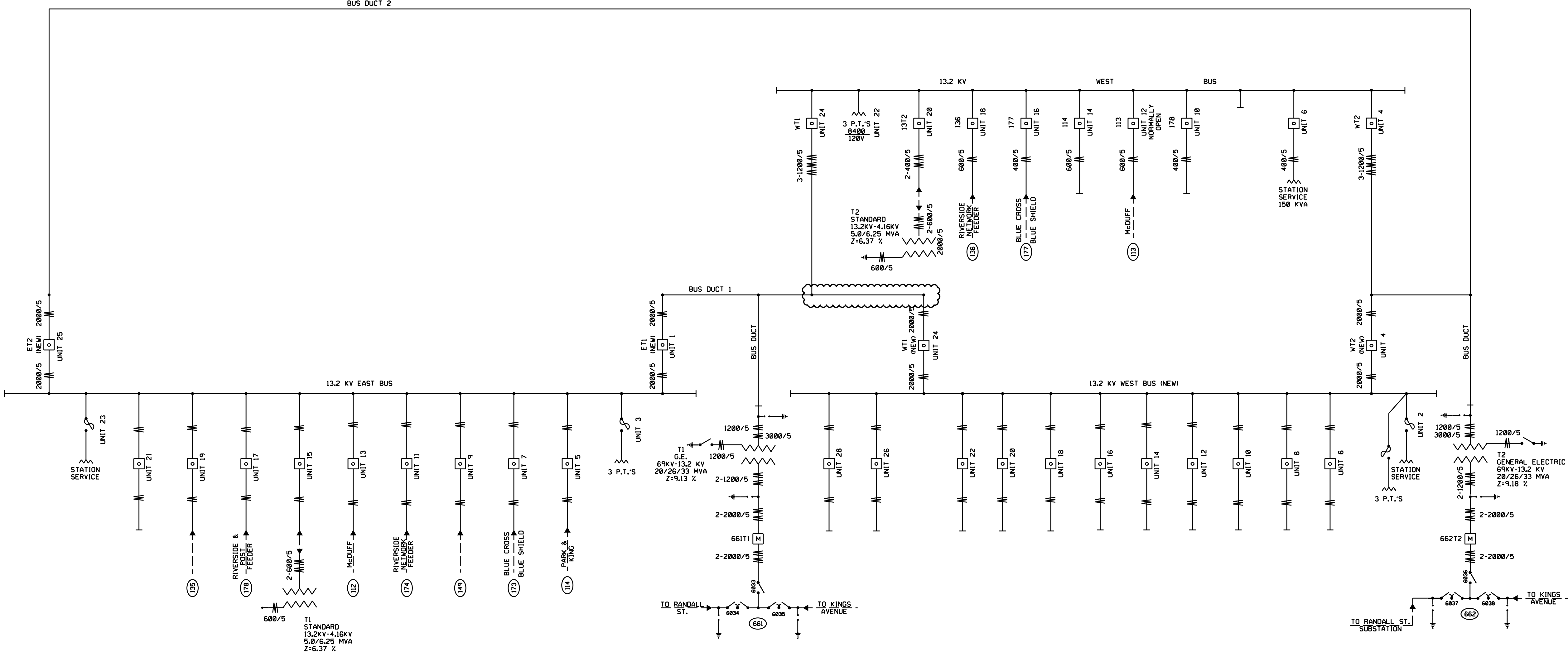
## SEQUENCE 4:

## TRANSFORMER OUTAGE: T1

EQUIPMENT OUTAGE: 661T1, WT1, WT2(NEW), ET1(NEW).

FEEDER OUTAGE: N/A

1. WT1(NEW) CUBICLE CONNECTION MADE TO T1 BUS DUCT.



21 W CHURCH ST.  
JACKSONVILLE, FLORIDA 32202

## CONSULTANT INFORMATION

PRELIMINARY - NOT TO BE USED  
FOR CONSTRUCTION  
LEIDOS 5.19.23

PROFESSIONAL  
ENGINEER'S SEAL

ORIGINALLY PREPARED UNDER  
THE RESPONSIBLE SUPERVISION OF

PE: \_\_\_\_\_

C, NO<sub>2</sub>: \_\_\_\_\_

STATE: \_\_\_\_\_

REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING	
						DATE	5/19/23
						BY	GAJ
						REVIEW	RC
						DRAFTING	
						DATE	5/19/23
						BY	GAJ
						REVIEW	RC

COLLEGE STREET SWITCHGEAR REPLACEMENT

## SINGLE LINE

COLLEGE STREET SUBSTATION

TRANSMISSION &amp; SUBSTATION PROJECTS - 20410

FILE NAME:

CO2025SL5

PROJECT ID:

CO2025

**SHEET NAME:**

SL5

SEQUENCE 5



SEQUENCE 5:

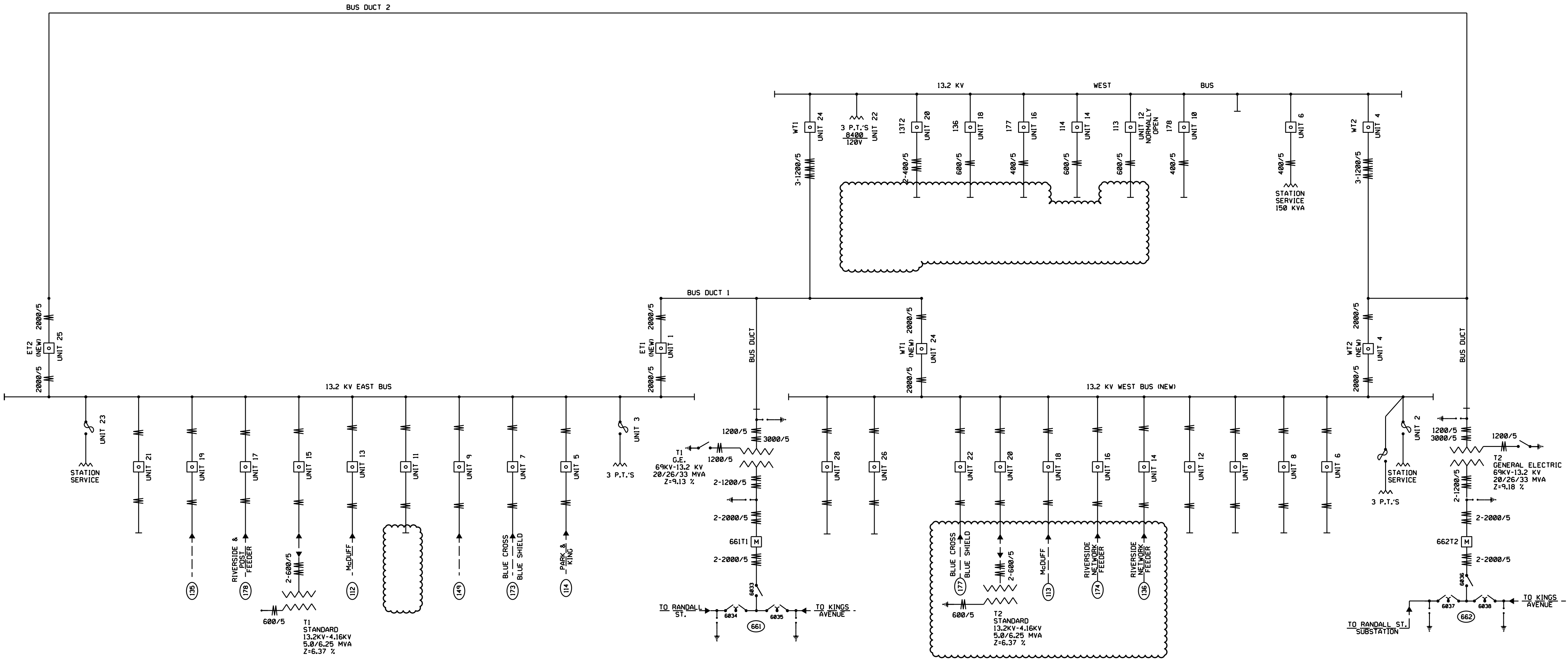
TRANSFORMER OUTAGE: T2(13.2kV-4.16kV)

EQUIPMENT OUTAGE: N/A

FEEDER OUTAGE: T2, 113, 136, 174, 177.

1. FEEDERS T2, 113, 136 AND 177 INDIVIDUALLY MOVED FROM WEST SWGR(OLD) TO WEST SWGR(NEW). CABLES ROUTE THROUGH 1964 BASEMENT.

2. FEEDER 174 MOVED FROM EAST SWGR(NEW) TO WEST SWGR(NEW). CABLE ROUTED FROM 1940 BUILDING CABLE TRENCH AND VAULT TO 1964 BASEMENT.



21 W CHURCH ST.  
JACKSONVILLE, FLORIDA 32202

CONSULTANT INFORMATION

PRELIMINARY - NOT TO BE USED  
FOR CONSTRUCTION  
LEIDOS 5.19.23

PROFESSIONAL  
ENGINEER'S SEAL

ORIGINALLY PREPARED UNDER  
THE RESPONSIBLE SUPERVISION OF

PE: \_\_\_\_\_

LIC. NO.: \_\_\_\_\_

STATE: \_\_\_\_\_

DATE: \_\_\_\_\_

REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING
						DATE 5/19/23
						BY GAJ
						REVIEW RC
						DRAFTING
						DATE 5/19/23
						BY GAJ
						REVIEW RC

COLLEGE STREET SWITCHGEAR REPLACEMENT

SINGLE LINE

COLLEGE STREET SUBSTATION

TRANSMISSION & SUBSTATION PROJECTS - 20410

FILE NAME:

CO2025SL6

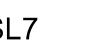
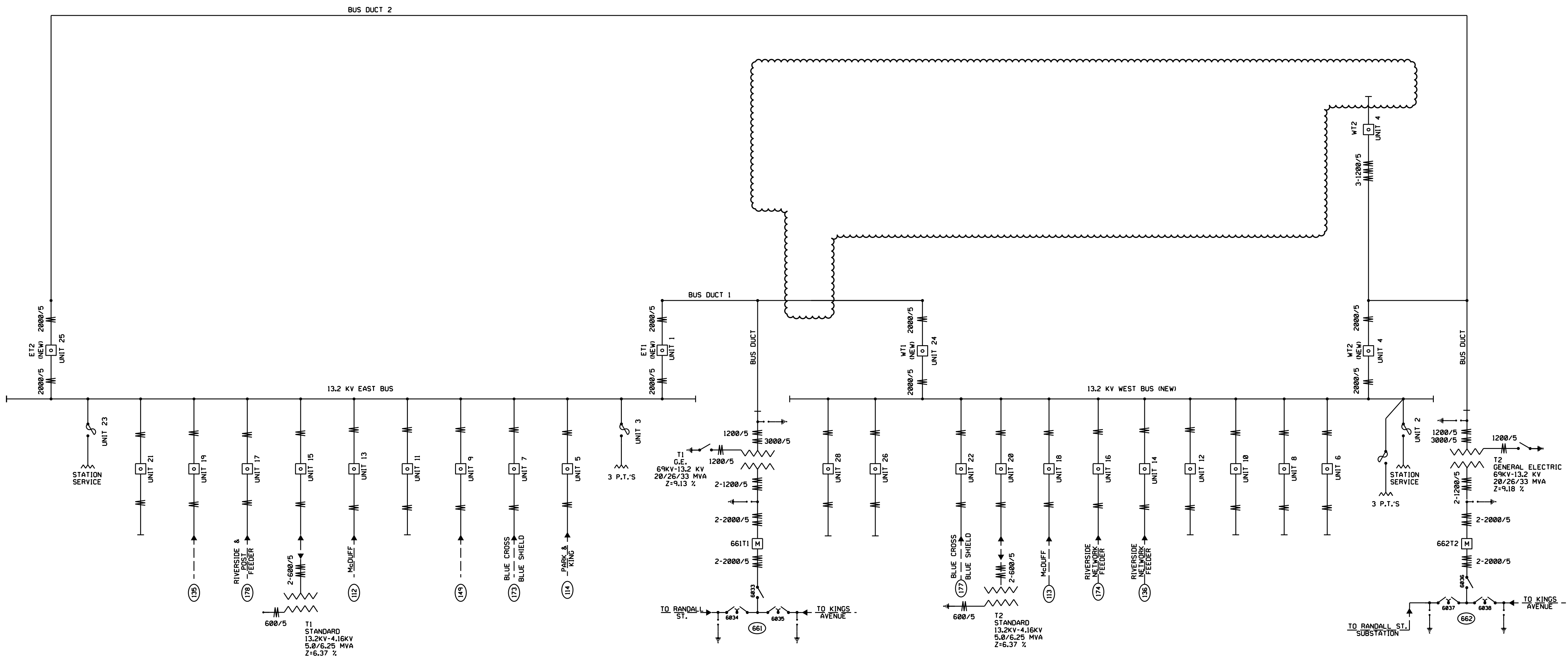
PROJECT ID:

CO2025

SHEET NAME:

SL6

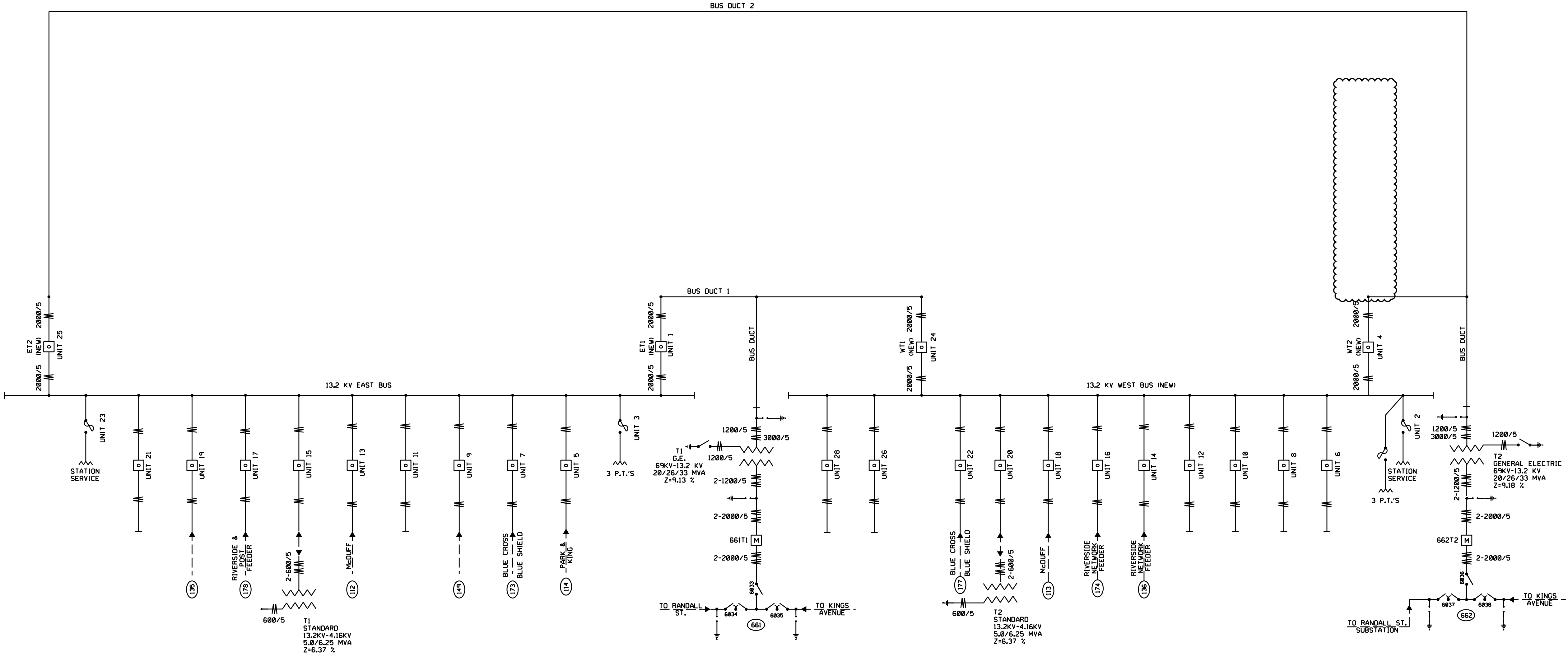
1. WEST SWGR(OLD) CUBICLES REMOVED EXCLUDING WT2(UNIT 4) CUBICLE.
2. T1 BUS DUCT SEGMENT TO WEST SWGR(OLD) REMOVED.



SEQUENCE 7

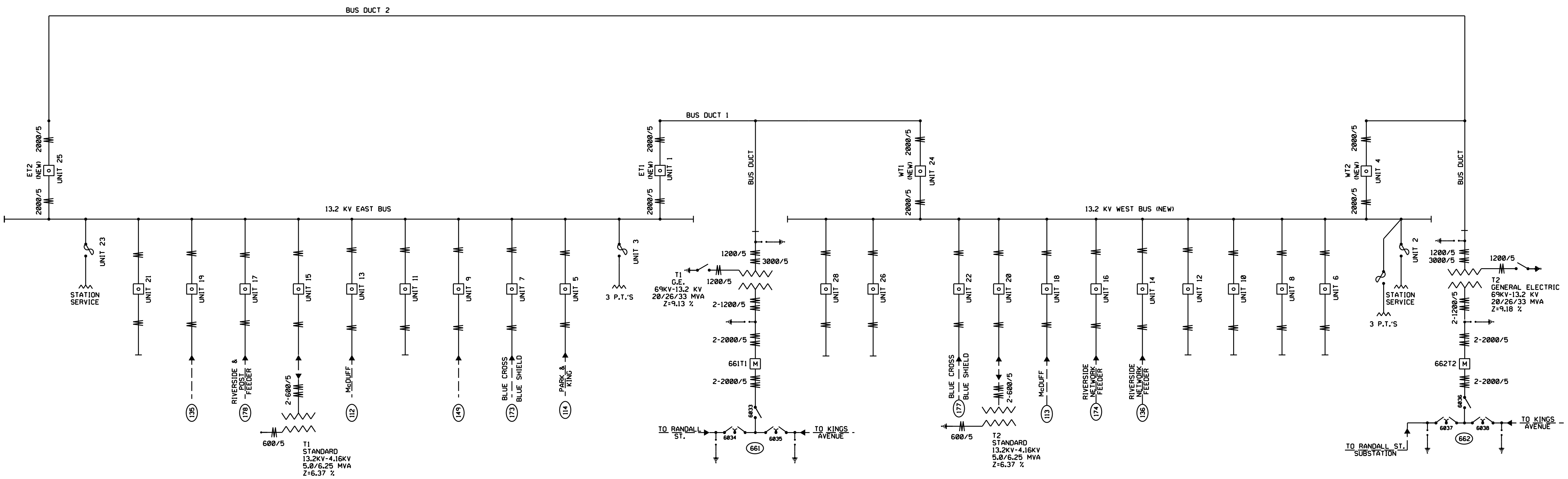
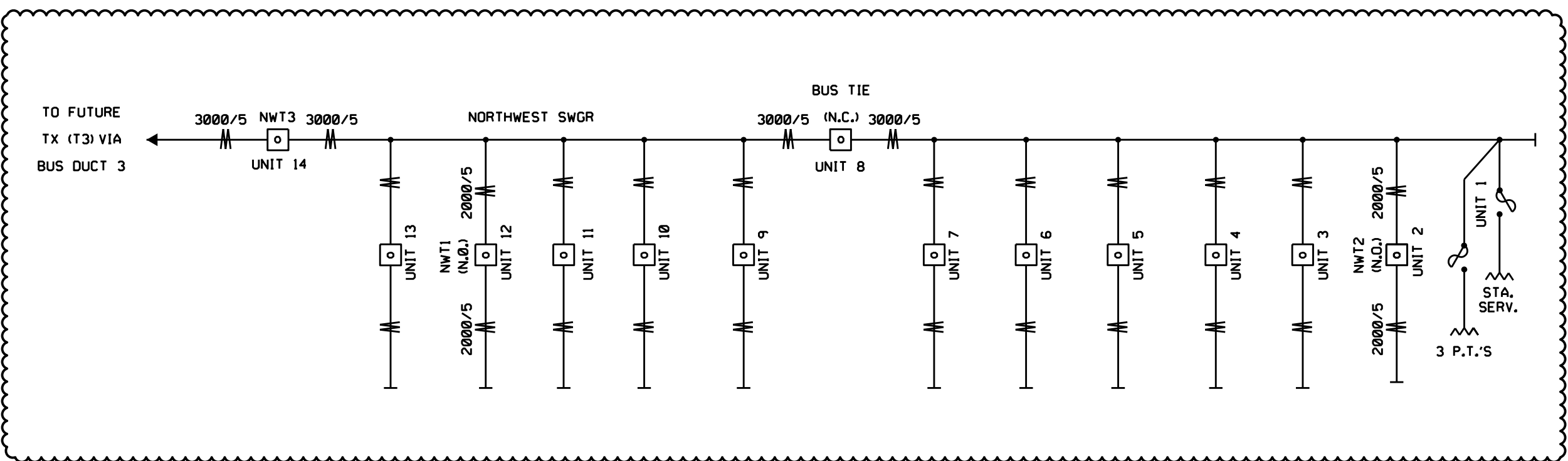


- SEQUENCE 7:**
- TRANSFORMER OUTAGE: T2
- EQUIPMENT OUTAGE: 662T2, ET2(NEW), WT2(NEW)
- FEEDER OUTAGE: N/A
- T2 BUS DUCT SEGMENT TO WT2(OLD) REMOVED.
  - WT2(OLD) CUBICLE REMOVED.



12345678

## SEQUENCE 8



## SEQUENCE 8:

TRANSFORMER OUTAGE: N/A

EQUIPMENT OUTAGE: N/A

FEEDER OUTAGE: N/A

1. NORTHWEST SWGR INSTALLED IN 1964 BUILDING.
2. NORTHWEST SWGR LOW VOLTAGE CABLES PULLED.
3. T3 BUS DUCT TO FUTURE TX #3 INSTALLED.



21 W CHURCH ST.  
JACKSONVILLE, FLORIDA 32202

## CONSULTANT INFORMATION

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ENGINEER'S SEAL

ORIGINALLY PREPARED UNDER  
THE RESPONSIBLE SUPERVISION OF

PE: \_\_\_\_\_

LIC. NO.: \_\_\_\_\_

STATE: \_\_\_\_\_

REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING	
						DATE	5/19/23
						BY	GAJ
						REVIEW	RC
						DRAFTING	
						DATE	5/19/23
						BY	GAJ
						REVIEW	RC

COLLEGE STREET SWITCHGEAR REPLACEMENT

SINGLE LINE

COLLEGE STREET SUBSTATION

TRANSMISSION &amp; SUBSTATION PROJECTS - 20410

FILE NAME:

CO2025SL9

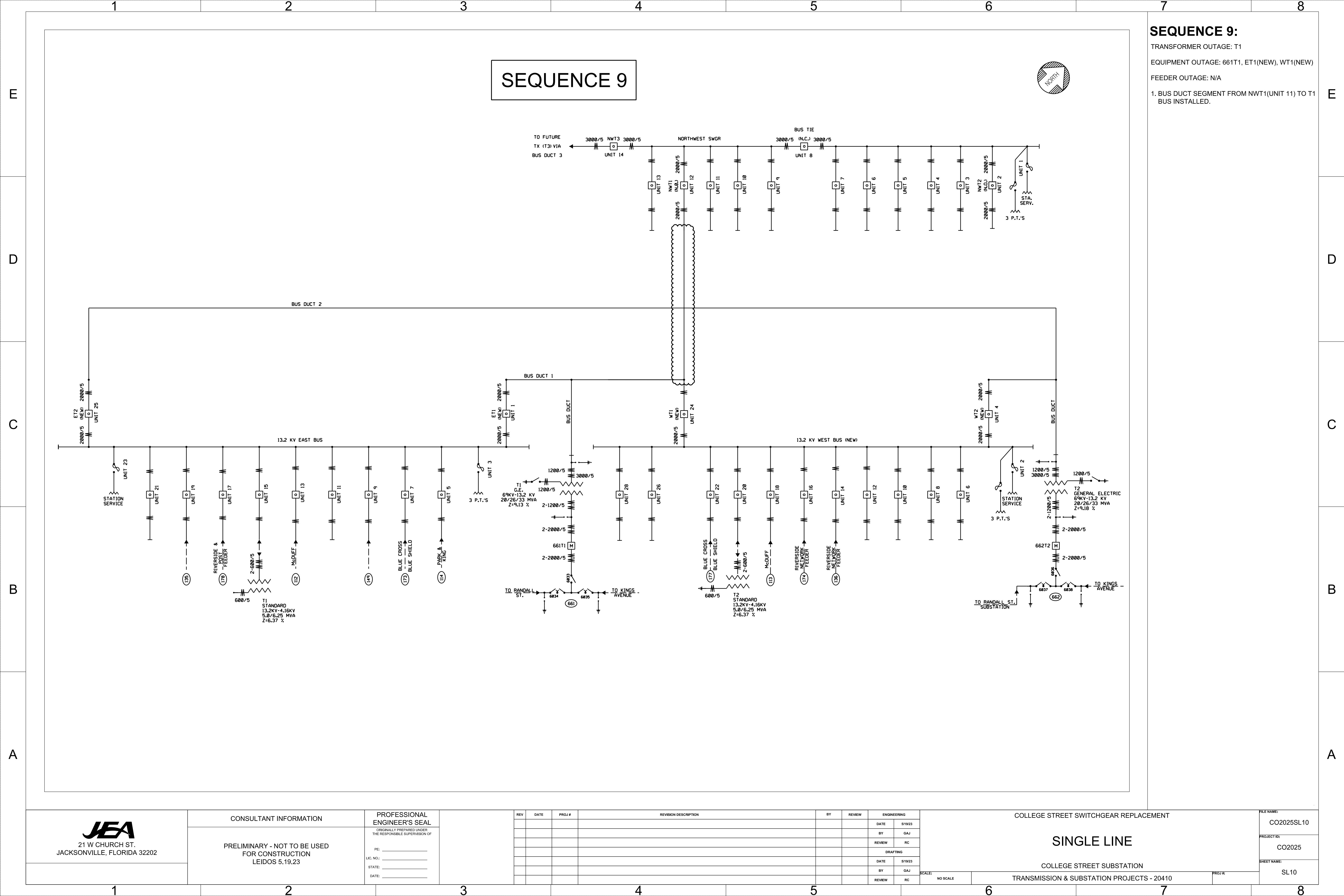
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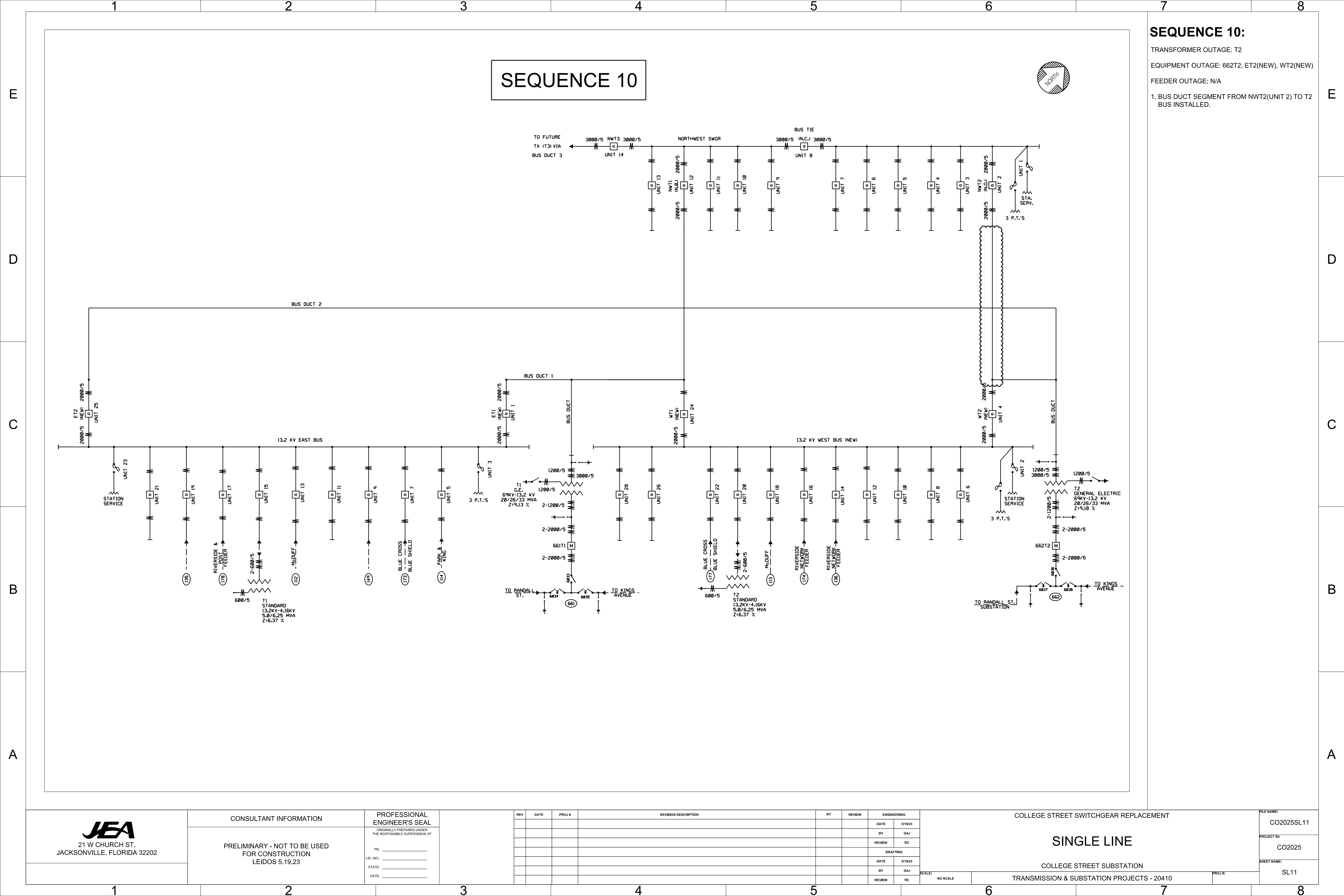
CO2025

SHEET NAME:

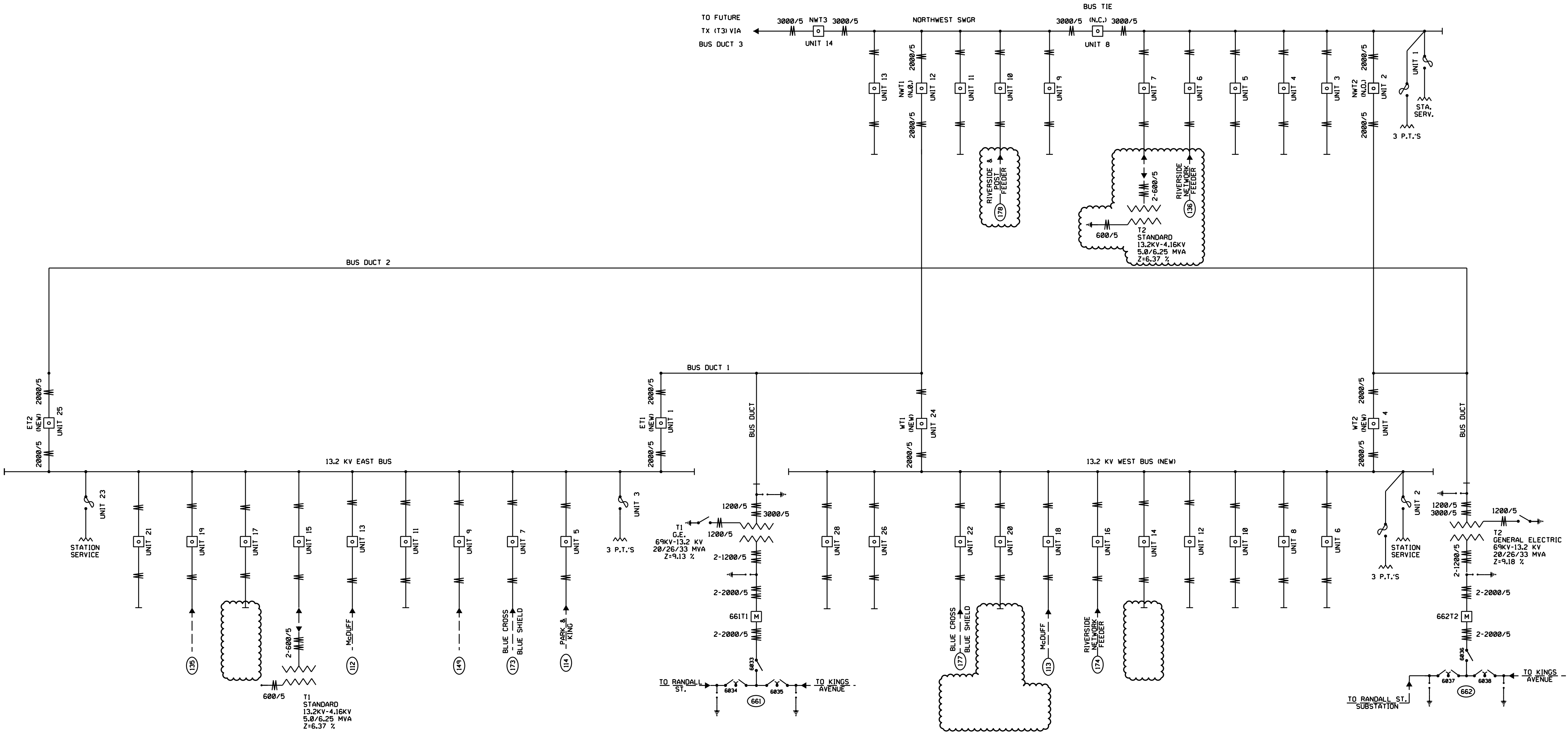
SL9







SEQUENCE 11



SEQUENCE 11:

TRANSFORMER OUTAGE: N/A

EQUIPMENT OUTAGE: N/A

FEEDER OUTAGE: 136, 178, 13T2

1. FEEDER 178 MOVED FROM EAST SWGR TO NORTHWEST SWGR.
2. FEEDERS 136 AND 13T2 MOVED FROM WEST SWGR TO NORTHWEST SWGR.



21 W CHURCH ST.  
JACKSONVILLE, FLORIDA 32202

CONSULTANT INFORMATION

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LEIDOS 5.19.23

PROFESSIONAL  
ENGINEER'S SEAL

ORIGINALLY PREPARED UNDER  
THE RESPONSIBLE SUPERVISION OF:

PE: \_\_\_\_\_

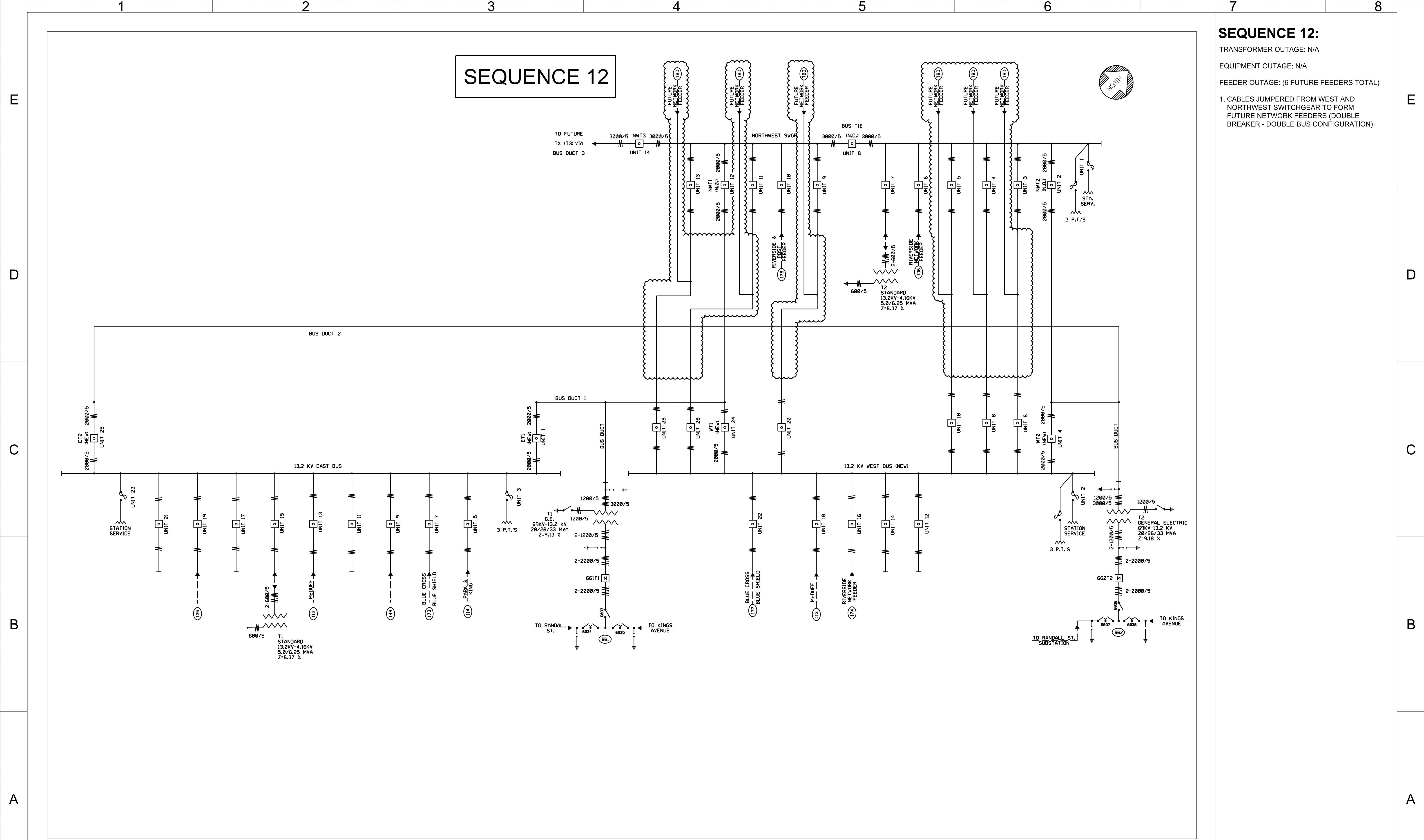
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STATE: \_\_\_\_\_

DATE: \_\_\_\_\_

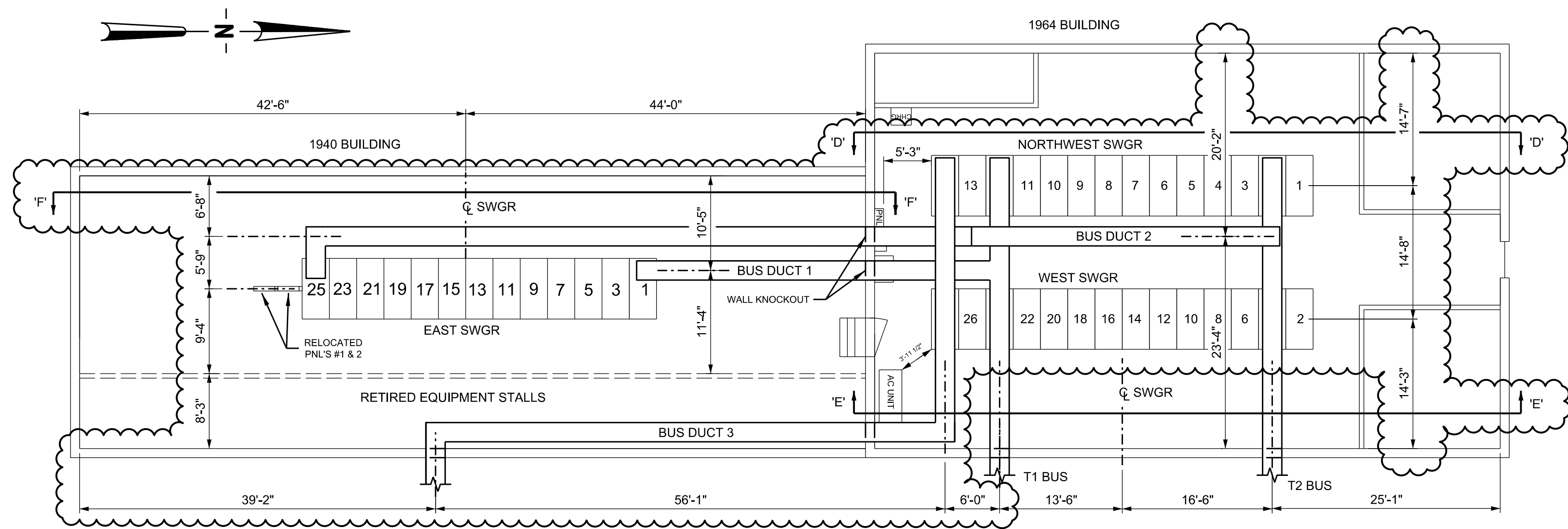
REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING
						DATE 5/19/23
						BY GAJ
						REVIEW RC
						DRAFTING
						DATE 5/19/23
						BY GAJ
						REVIEW RC

COLLEGE STREET SWITCHGEAR REPLACEMENT		FILE NAME:	CO2025SL12
SINGLE LINE		PROJECT ID:	CO2025
COLLEGE STREET SUBSTATION		SHEET NAME:	SL12
TRANSMISSION & SUBSTATION PROJECTS - 20410	PROJ #:		

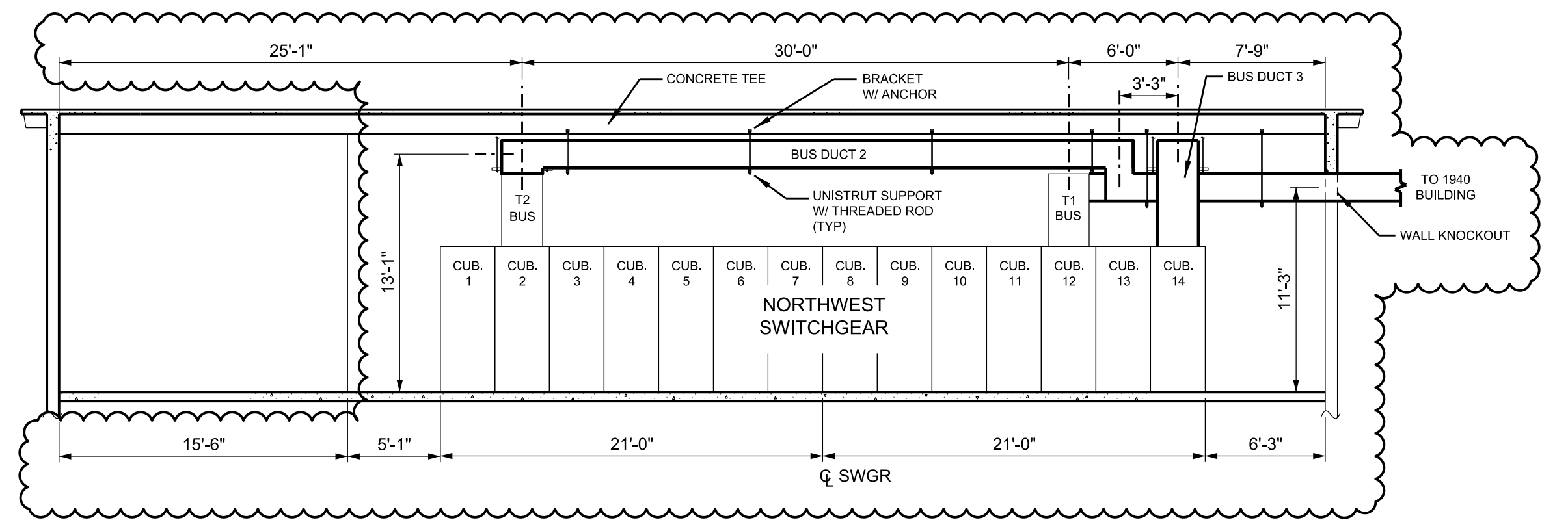


<div><div><div>JEA</div><div>21 W CHURCH ST. JACKSONVILLE, FLORIDA 32202</div></div></div>	CONSULTANT INFORMATION	PROFESSIONAL ENGINEER'S SEAL	REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING		COLLEGE STREET SWITCHGEAR REPLACEMENT				FILE NAME: CO2025SL13
	PRELIMINARY - NOT TO BE USED FOR CONSTRUCTION LEIDOS 5.19.23	PE: _____  LIC. NO.: _____ STATE: _____ DATE: _____							DATE	5/19/23	SINGLE LINE				PROJECT ID: CO2025
									BY	GAJ					
								REVIEW	RC	REVIEW					
									DRAFTING		COLLEGE STREET SUBSTATION				SHEET NAME: SL13
									DATE	5/19/23	SCALE: NO SCALE		TRANSMISSION & SUBSTATION PROJECTS - 20410	PROJ #:	
									BY	GAJ					
									REVIEW	RC					

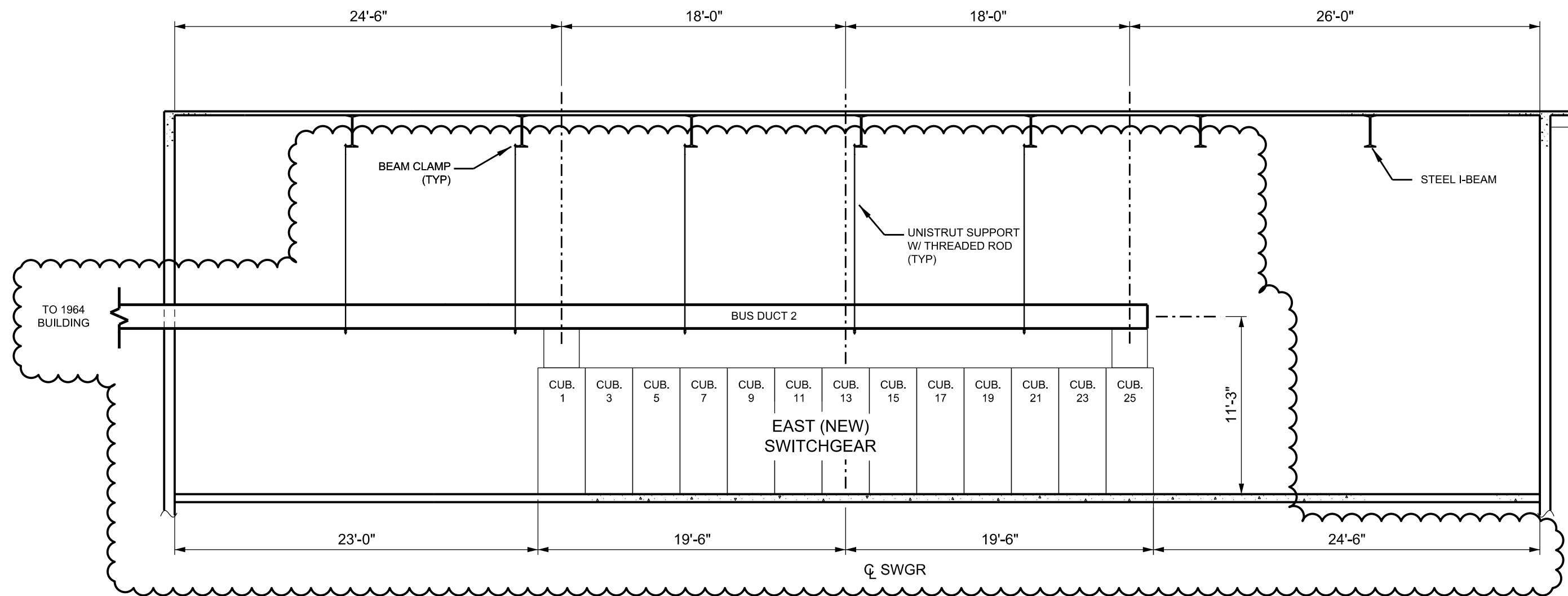
## Attachment A - 10% Drawing Package



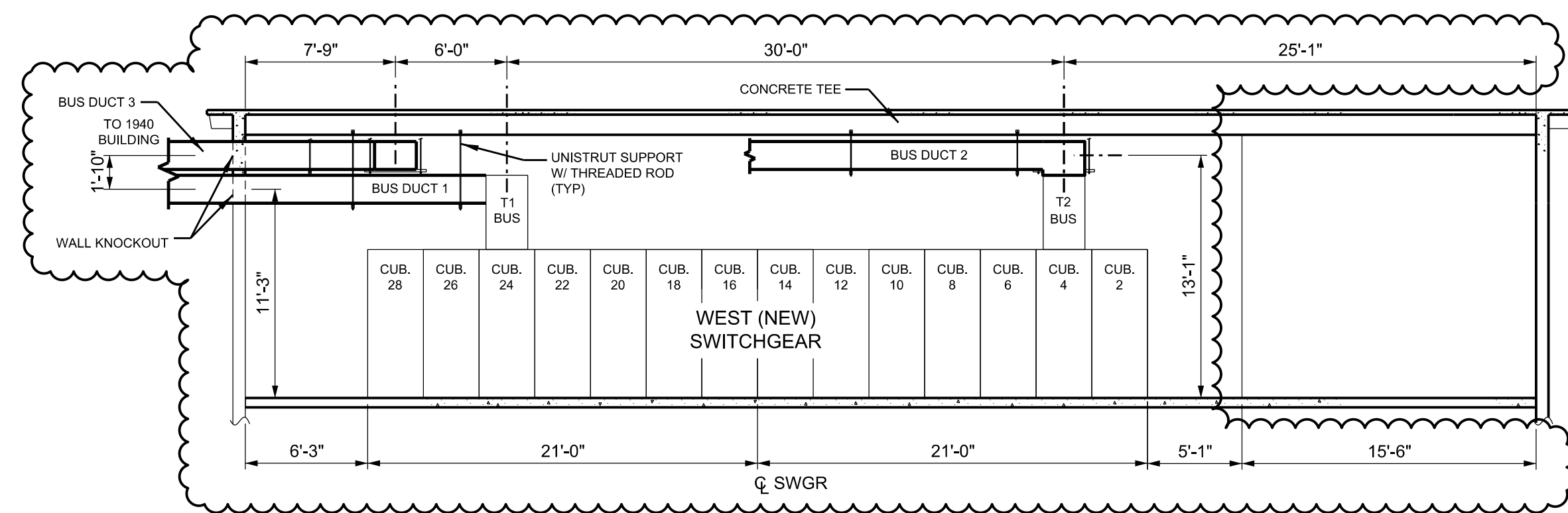
PLAN VIEW  
1940 & 1964 BUILDING  
BUS DUCT ARRANGEMENT



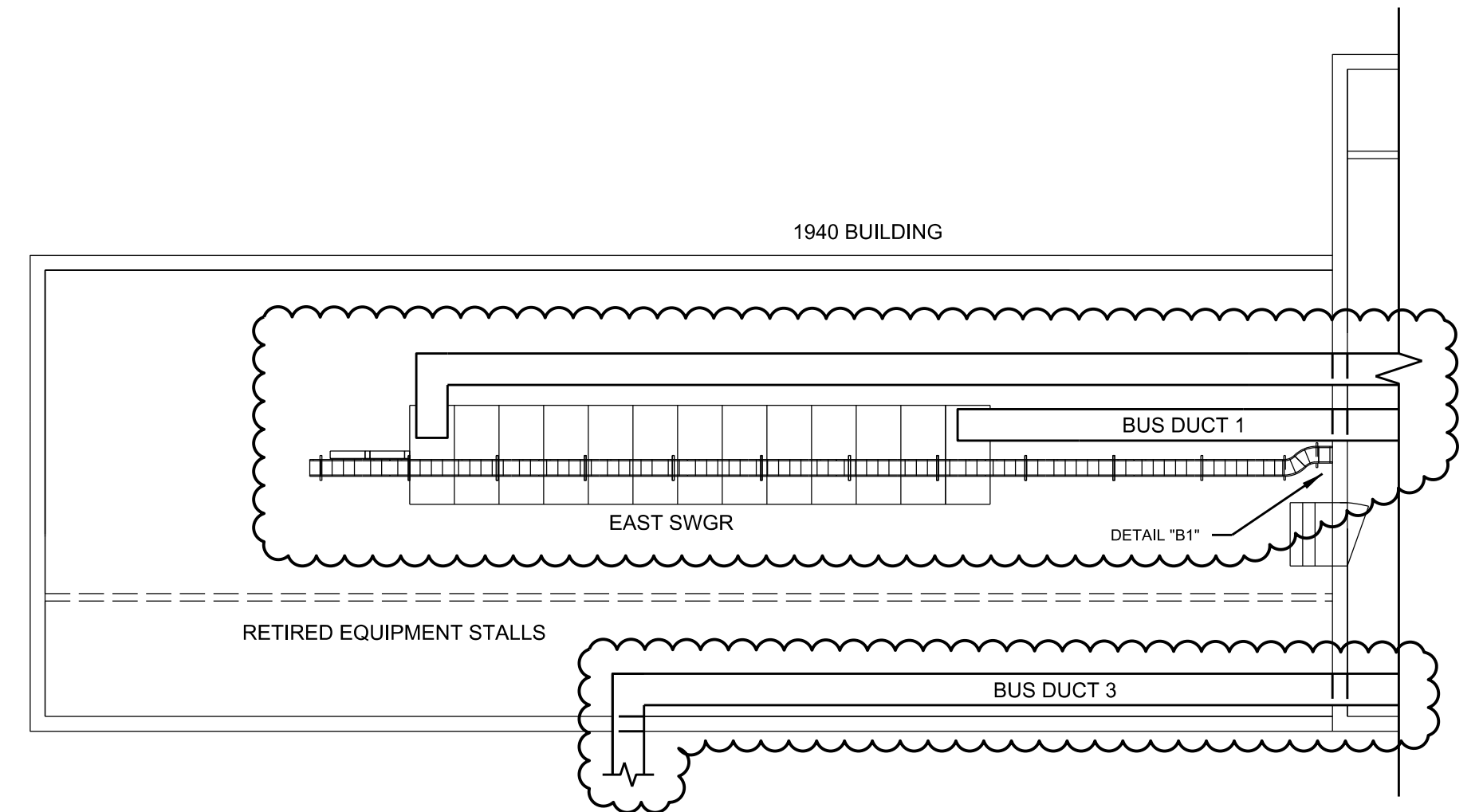
SECTION "D-D"  
1964 BUILDING BUS  
DUCT ARRANGEMENT



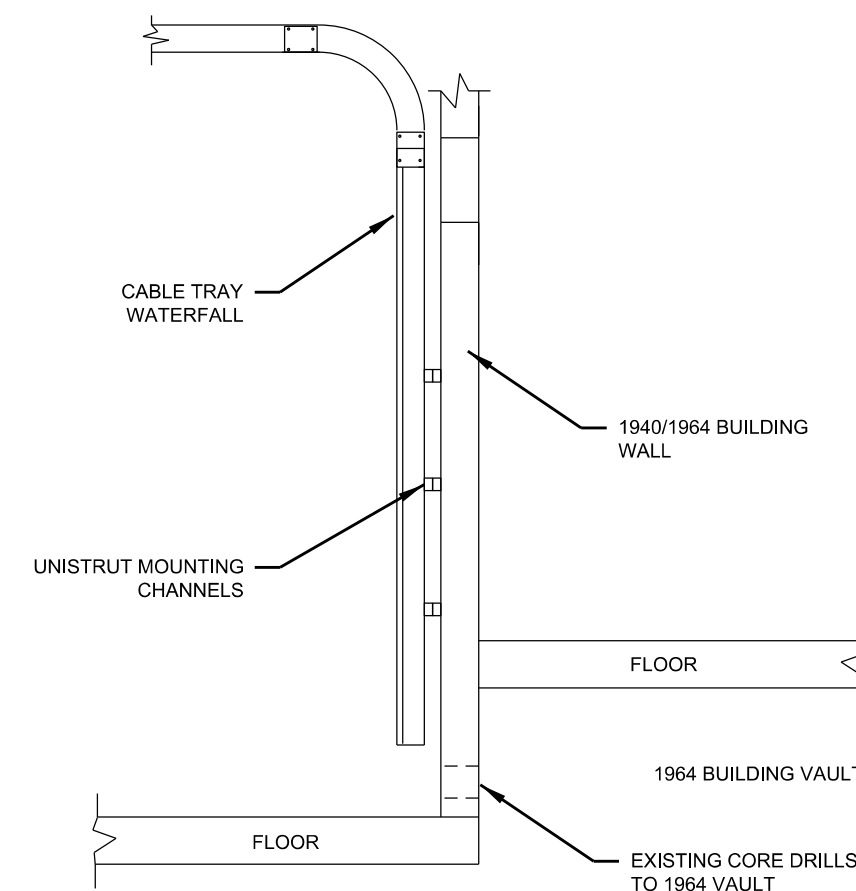
SECTION "F-F"  
1940 BUILDING BUS  
DUCT ARRANGEMENT



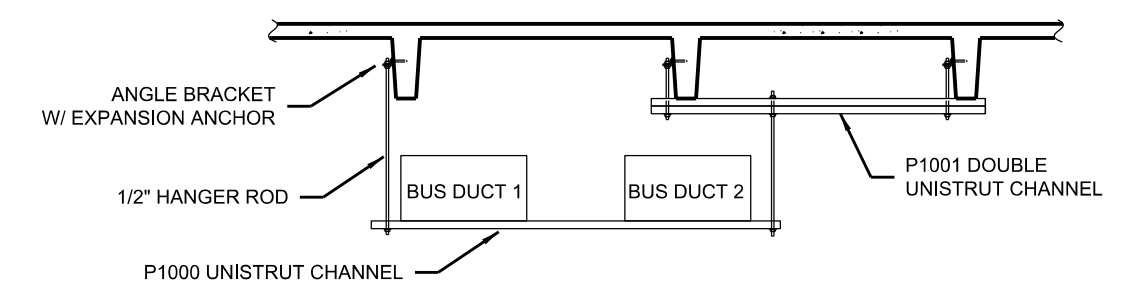
SECTION "E-E"  
1964 BUILDING BUS  
DUCT ARRANGEMENT



CABLE TRAY PLAN



DETAIL "B1"  
CABLE TRAY DETAIL  
(N.T.S.)

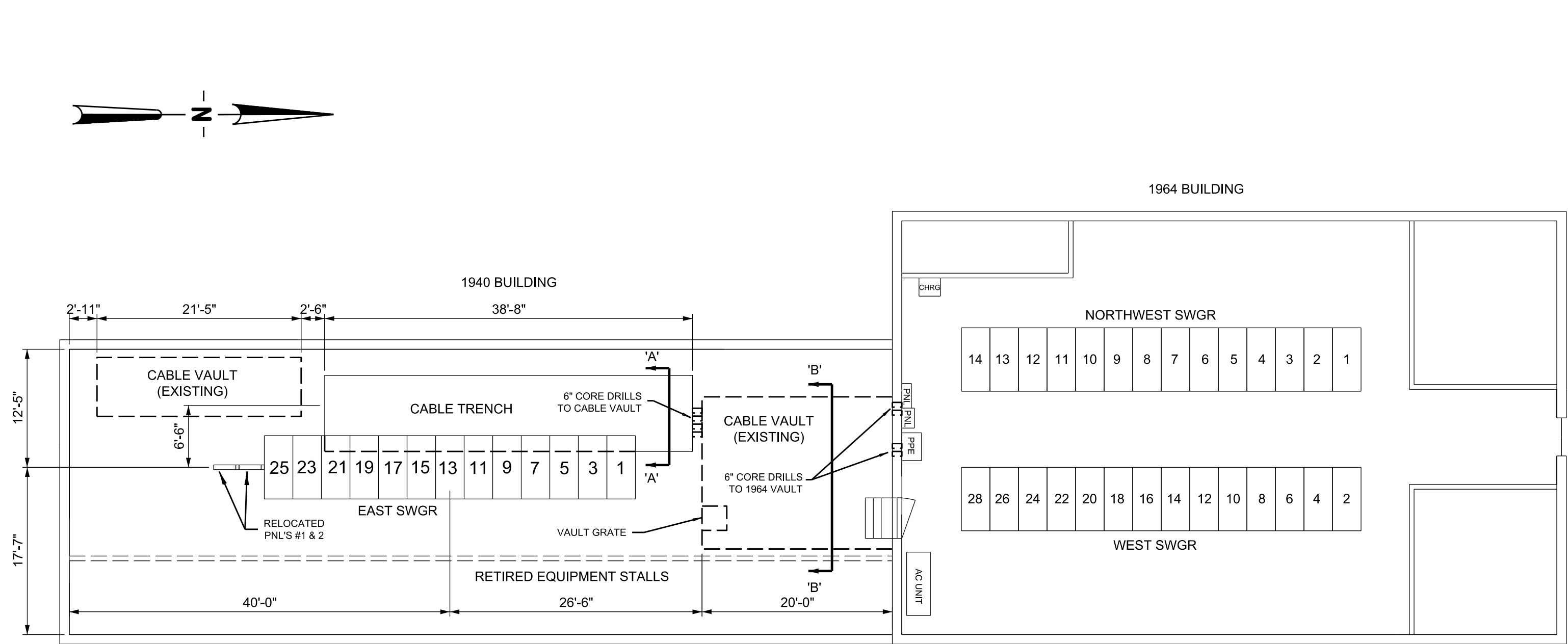


DETAIL "A1"  
TYPICAL BUS DUCT SUPPORT  
(N.T.S.)

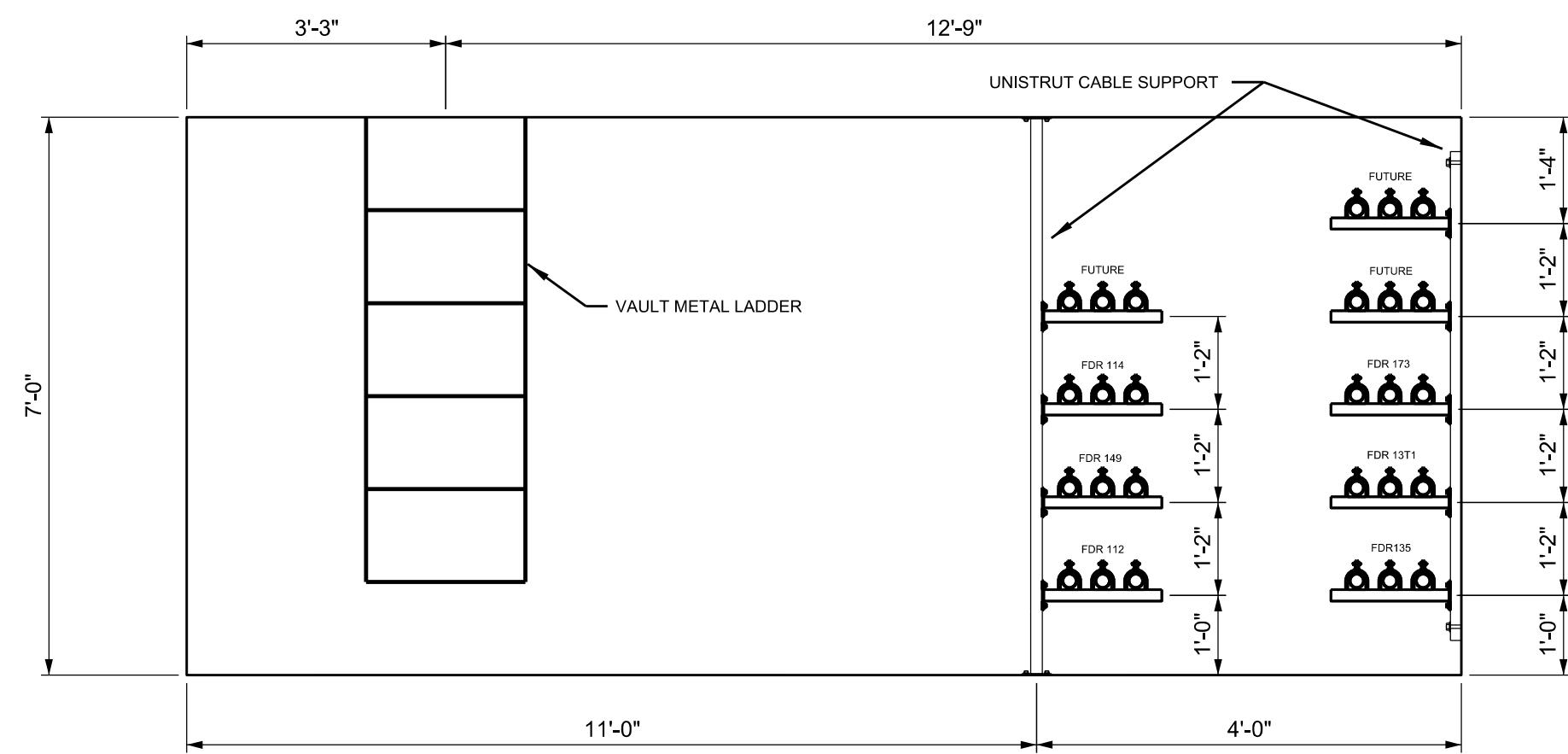


NO.	REVISIONS TO DRAWING	BY	DATE	APPROVED	ENGINEERING	BY	DATE
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					CHECKED	LDOS	10.12.23
					APPROVED	LDOS	11.10.23
					DRAFTING	BY	DATE
					PRELIMINARY	LDOS	10.12.23
					FINAL DESIGN	LDOS	11.10.23
					AS BUILT		

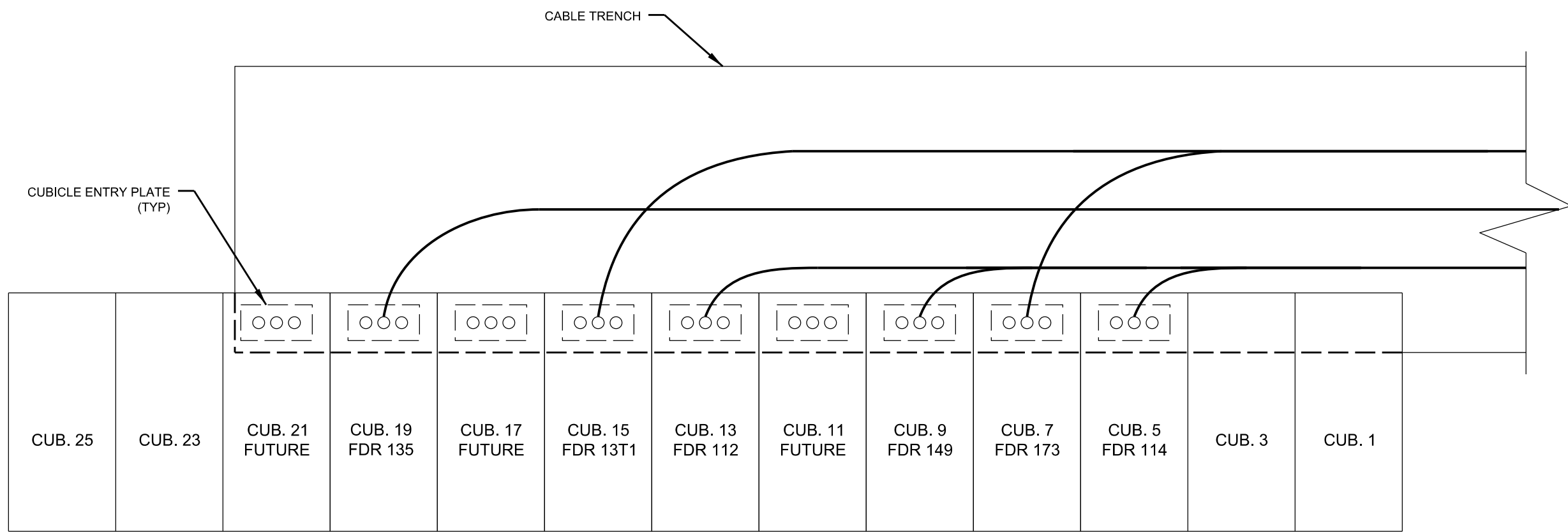
SWITCHGEAR REPLACEMENT				DESIGN FILENAME:	CO2025MD1.DGN
BUS DUCT LAYOUT				DRAWING NO.:	CO2025MD1
COLLEGE STREET SUBSTATION				SHEET NO.:	1 OF 1
PROJECT DESIGN SEGMENT 20410				IFB NO.:	n/a
SCALE: AS SHOWN				JEA BUILDING COMMUNITY	



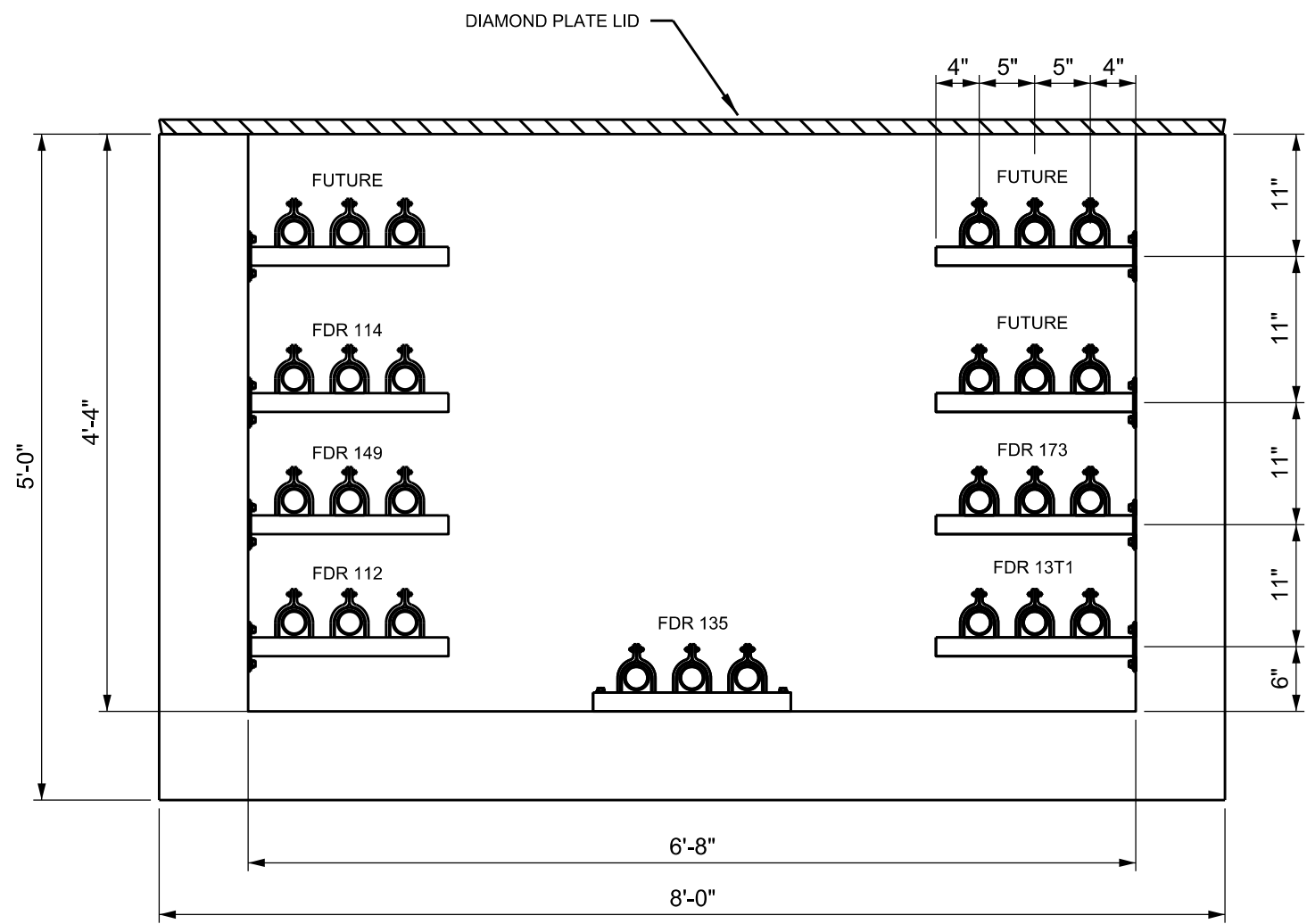
PLAN VIEW



SECTION 'B-B'  
CABLE VAULT DETAILS  
(N.T.S.)



DETAIL 'A'  
FEEDER CABLE ARRANGEMENT  
IN CABLE TRENCH  
(N.T.S.)



SECTION 'A-A'  
CABLE TRENCH DETAILS  
(N.T.S.)



NO.	REVISIONS TO DRAWING	BY	DATE	APPROVED	ENGINEERING	BY	DATE
					DESIGNED	LDOS	10.5.23
					CHECKED	LDOS	10.5.23
					APPROVED	LDOS	11.10.23
					DRAFTING	BY	DATE
					PRELIMINARY	LDOS	10.5.23
					FINAL DESIGN	LDOS	11.10.23
					AS BUILT		

SWITCHGEAR REPLACEMENT

## CABLE VAULT & TRENCH DETAILS

COLLEGE ST. SUBSTATION



SCALE:

AS SHOWN

PROJECT DESIGN SEGMENT 20410

IFB NO:

n/a

DESIGN FILENAME:

CS2025MD2.DGN

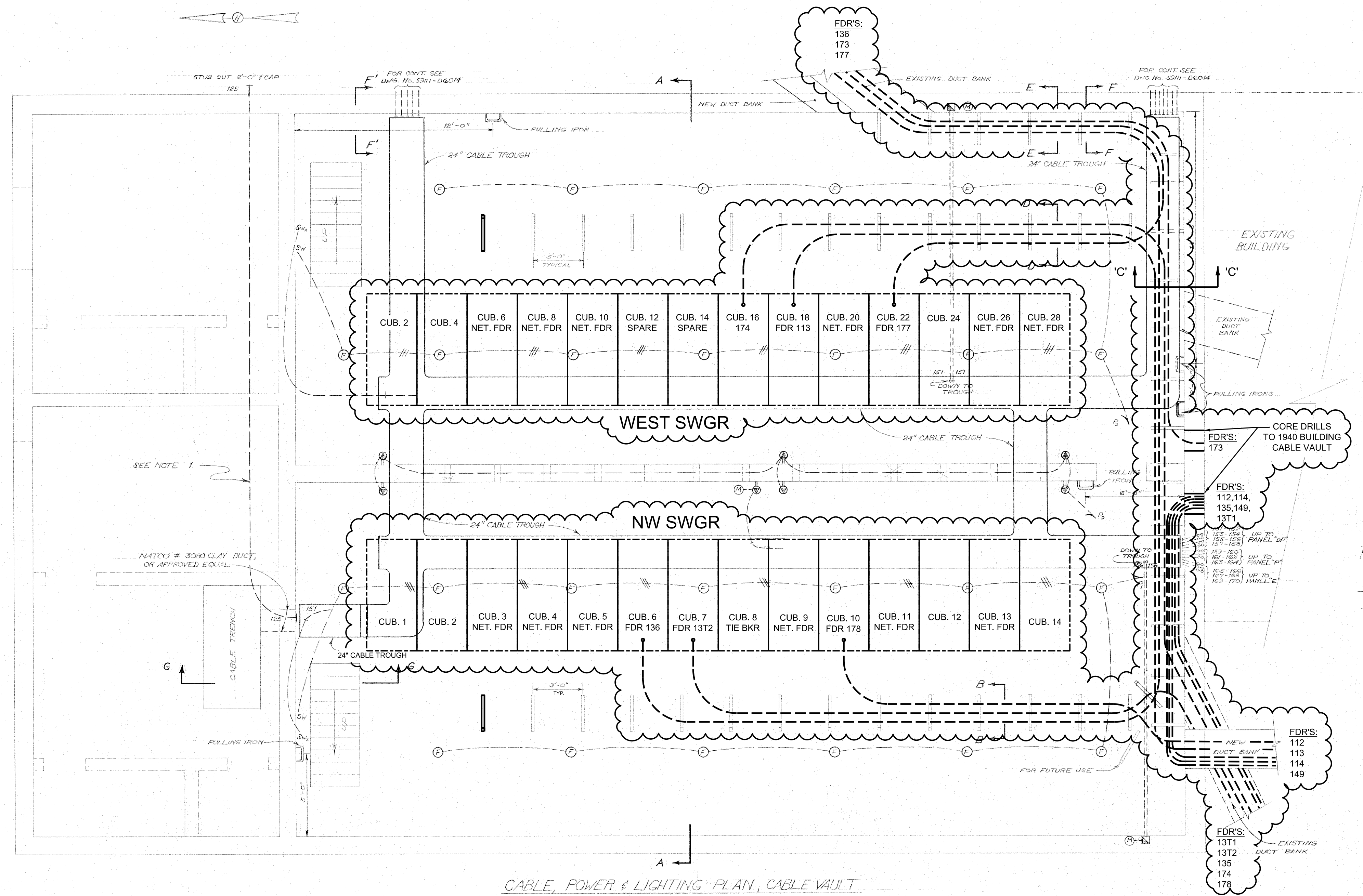
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CS2025MD2

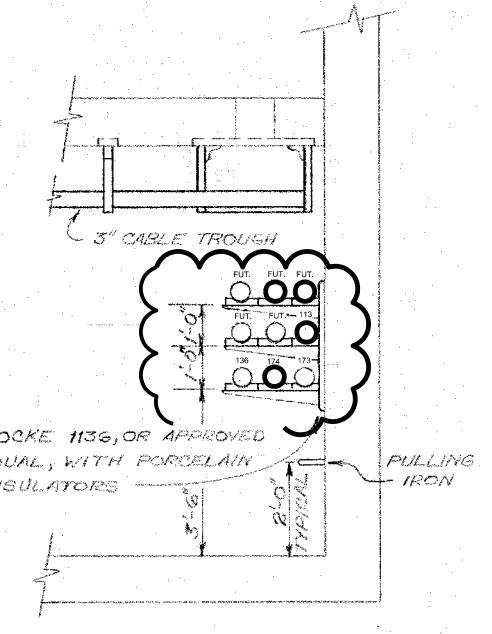
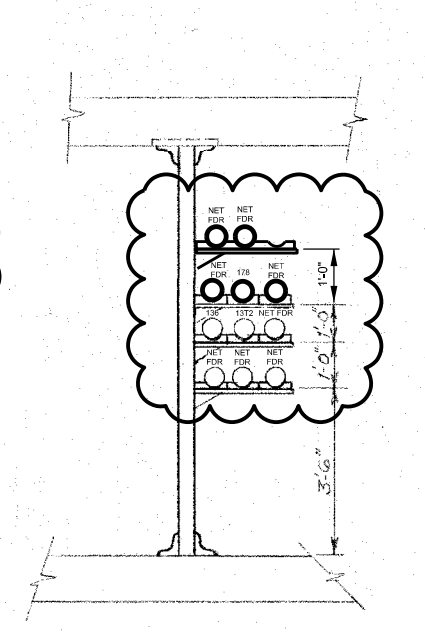
SHEET NO:

1 OF 1



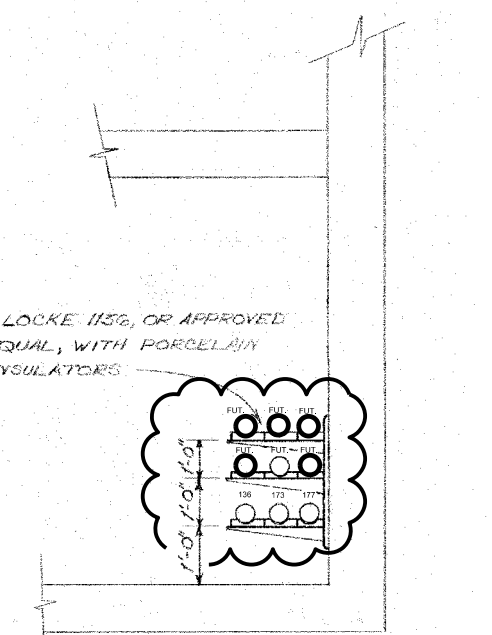
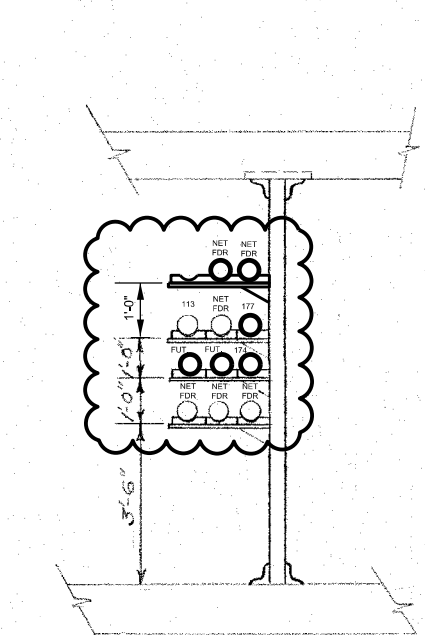


- LEGEND**
- INDICATES HOME RUN
  - INDICATES R.L.C. CABLE, FIREPROOFED AFTER INSTALLATION
  - INDICATES 2 #18 R.W. IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED (SEE CONDUIT AND CABLE SCHEDULE). CONDUIT CONCEALED IN SLAB, WALLS, ETC.
  - CROSS MATCHES ON CONDUIT INDICATE NUMBER OF CONDUCTORS IN CONDUIT.
  - INDICATES SQUARE D, CLASS 800P, OR APPROVED EQUAL, MAGNETIC CONTACTOR, 220 VOLT, 1-8, FLUSH MOUNTED.
  - ⊙ INDICATES MOTOR FOR EXHAUST FAN, SUMP, ETC.
  - ⊙ INDICATES "BENJAMIN", T162-A, OR APPROVED EQUAL, 150 WATT FIXTURE WITH #147 REFLECTOR, MOUNTING HEIGHT, 7'-0".
  - ⊙ RECEPTACLE, DUPLEX, "HUBBELL" #5210, OR APPROVED EQUAL, FLUSH MOUNTED.
  - Sw SWITCH, WEATHERPROOF, FLUSH MOUNTED, SINGLE POLE, 20 AMP, FOR LIGHTING.
  - Swx SWITCH, WEATHERPROOF, FLUSH MOUNTED, SINGLE POLE, 20 AMP, FOR EXHAUST FANS.
  - SWITCHGEAR CUBICLES
  - NEW FEEDER CABLES



SECTION "B-B"  
SCALE: 3/8" = 1'-0"

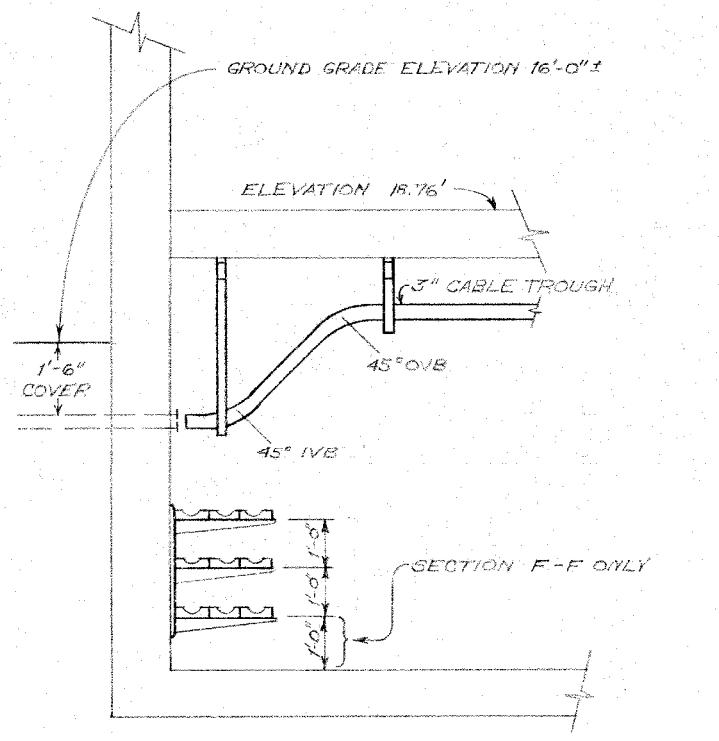
SECTION "C-C"  
SCALE: 3/8" = 1'-0"



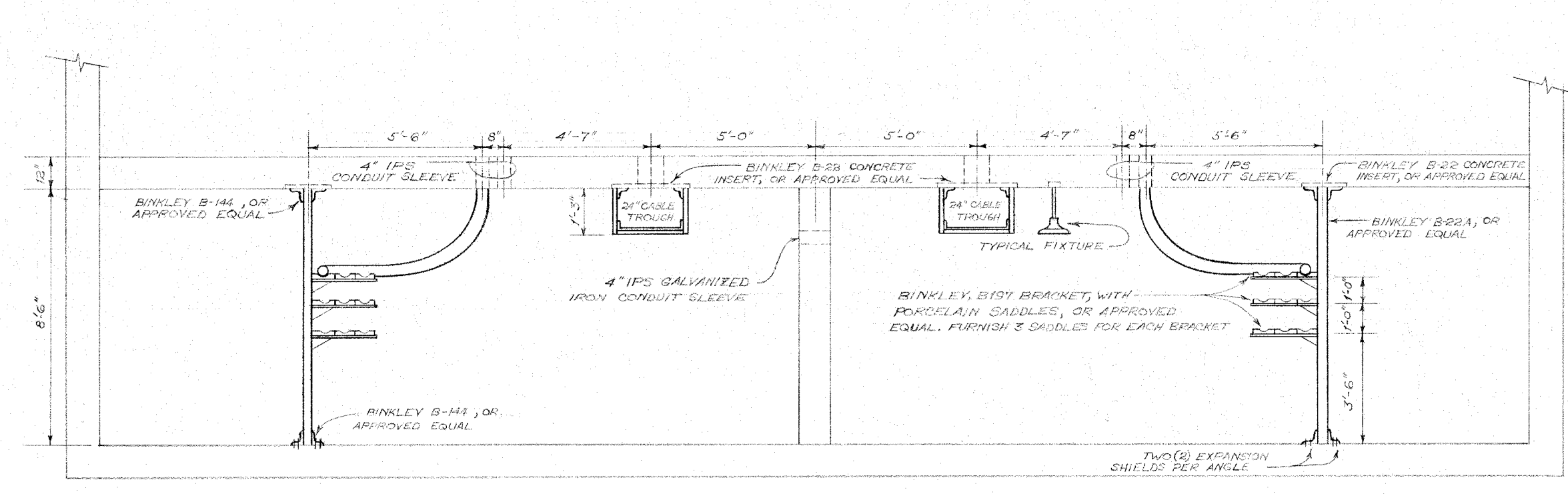
SECTION "D-D"  
SCALE: 3/8" = 1'-0"

SECTION "E-E"  
SCALE: 3/8" = 1'-0"

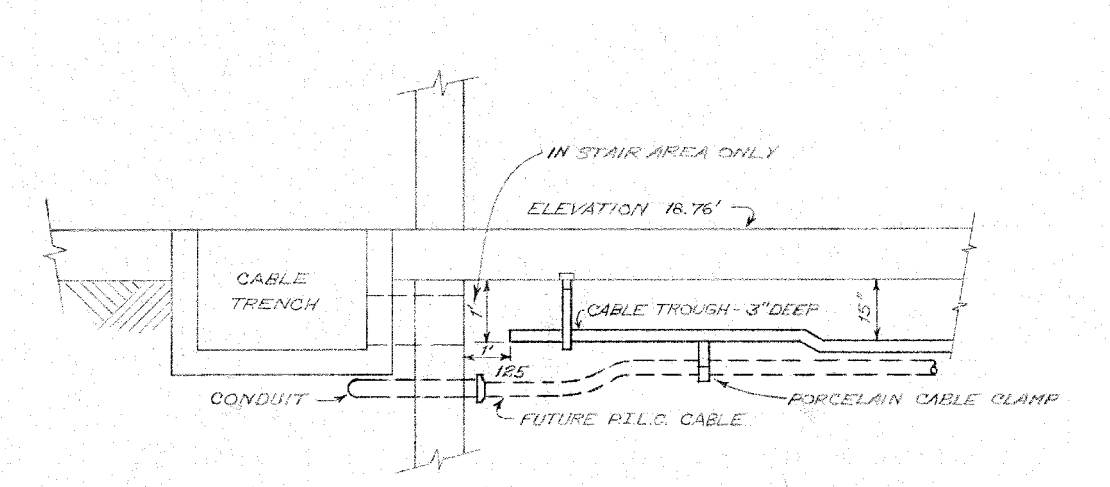
CABLE, POWER & LIGHTING PLAN, CABLE VAULT  
SCALE: 3/8" = 1'-0"



SECTION "F-F"  
SECTION E-E SIMILAR EXCEPT AS NOTED  
SCALE: 3/8" = 1'-0"



SECTION "A-A"  
SCALE: 3/8" = 1'-0"



SECTION "G-G"  
SCALE: 3/8" = 1'-0"



NO.	REVISIONS TO DRAWING	BY	DATE	APPROVED	ENGINEERING	BY	DATE
					DESIGNED	LDOS	10.5.23
					CHECKED		
					APPROVED		
					DRAFTING	BY	DATE
					PRELIMINARY	LDOS	10.5.23
					FINAL DESIGN		
					AS BUILT		

SWITCHGEAR REPLACEMENT  
**VAULT CABLE PLAN**  
COLLEGE ST. SUBSTATION

SCALE: AS SHOWN  
**PROJECT DESIGN SEGMENT 20410**



DESIGN FILENAME:	CS2025MD3.DGN
DRAWING NO.:	CS2025MD3
SHEET NO.:	1 OF 1