

## Appendix – Technical Specifications

### Table of Contents

- I. Project Summary (Appendix)
- II. Project Schedule

# Georgia Street Substation Switchgear

## Georgia St. Switchgear Scope of Work

This project will result in the construction of fifteen (15) new metal enclosed feeder breakers with a net increase of new load serving 13kV breakers. The new breaker lineup will be initially fed from the T1 & T2 transformers with the ability to add a T3 in the future. There will be three new switchgear buildings; each switchgear will consist of bus tie breakers, five (5) feeder breakers and one (1) source breaker (the west switchgear will not have a separate source breaker). This design will allow all of the circuits to be fed by the T1 or T2; or half fed by the T1 and half fed by the T2. Each new switchgear bus and all non-feeder breakers shall be rated for 3,000 amps minimum. Bus tie conductors will be rated for 2,450 amps minimum. Feeder breakers must be rated for 1200 amps minimum. New feeders will be numbered 80 through 94. Existing T2 feeders shall be relabeled 95-99. Breaker 13T2T1 shall be relabeled 13T2T3.

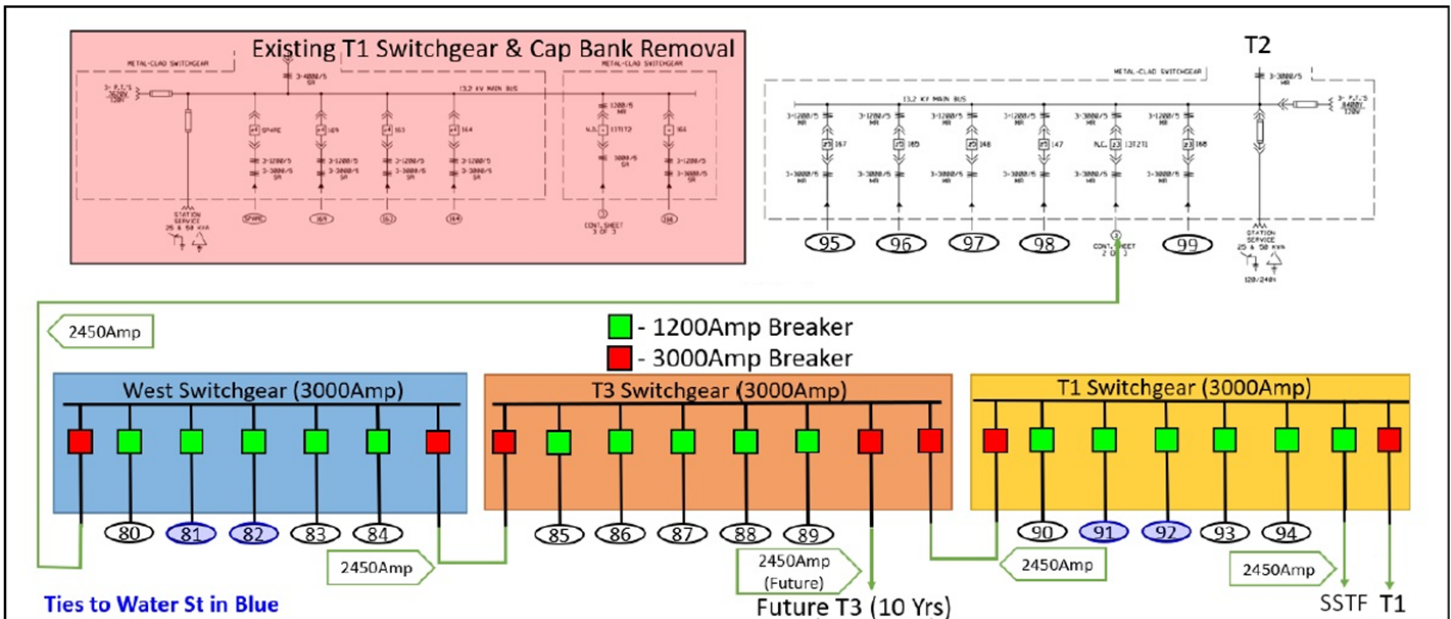
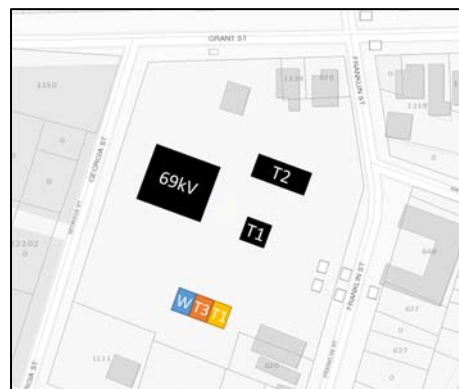


Figure 1: Georgia St Conceptual Single Line

## New West, T3, & T1 Switchgear

Install new West, T3, & T1 switchgear buildings consisting of three (3) segments separated by two bus ties (two (2) breakers per bus tie). Each segment will consist of the bus tie breaker(s), five (5) feeder breakers and one (1) source breaker (the west switchgear will not have a separate source breaker). Each of the three new switchgear segments will be housed in separate buildings. Please note the feeder breakers will be rated at 1200 amps minimum. The T1 switchgear will contain an additional breaker for the station service.



## Georgia Street Substation Switchgear

### New T2 to West Bus Tie

Construct a new tie conduit system between the T2 tie breaker and the new west bus switchgear (the current route is subject to change). The use of four (4) parallel conductors for the T2 tie is assumed. Six-inch (6") diameter conduits shall be used between tie breaker termination locations. Pull four (4) parallel runs of 750CU (or higher ampacity substitute) between breakers.

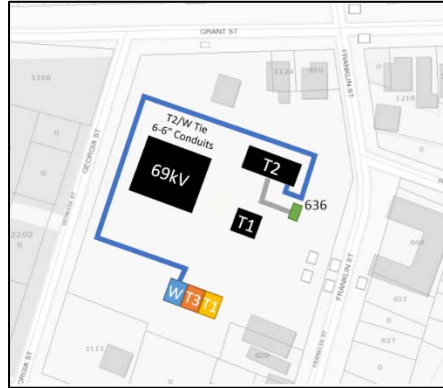


Figure 3: T2/W Tie Conduit Route

### New T1 Bus Tie

Construct a new tie conduit system between the T1 and the new T1 switchgear (the conduit route is subject to change). The use of four (4) parallel conductors for the T1 bus is assumed. Six-inch (6") diameter conduits shall be used between tie breaker termination locations. Pull four (4) parallel runs of 750CU (or higher ampacity substitute) between breakers.

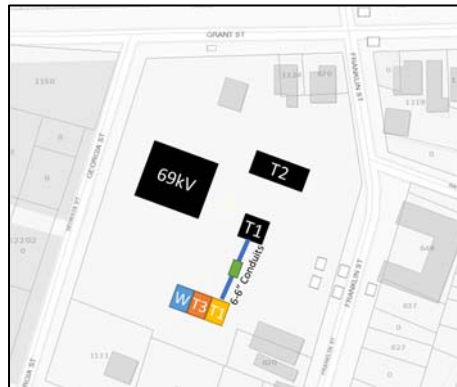


Figure 4: T1 Conduit Route

## Georgia Street Substation Switchgear

### Georgia St T3

Construct a new conduit system from new Georgia St T3 Breaker northward to a new manhole. The conduit system shall consist of six (6) six-inch (6") conduits. The manhole location must provide adequate space for a future T3 Transformer addition.

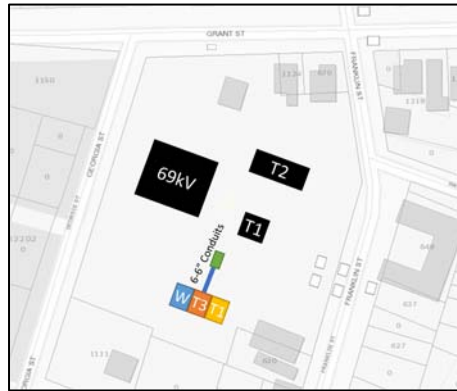


Figure 5: Georgia St New Switchgear to Future T3 Conduit Route

- The conduit system from the switchgear to the new manholes shall consist of two (2) six-inch (6") conduits per circuit (1 primary and 1 spare).
- Six (6) conduits for Circuits 80, 81, & 82 shall terminate at new Manhole "A".
- Six (6) conduits for Circuits 83, 84, & 85 shall terminate at new Manhole "B".
- Six (6) conduits for Circuits 86, 91, & 92 shall terminate at new Manhole "C".
- Six (6) conduits for Circuits 87, 88, & 89 shall terminate at new Manhole "D".
- Six (6) conduits for Circuits 90, 93, & 94 shall terminate at new Manhole "E".

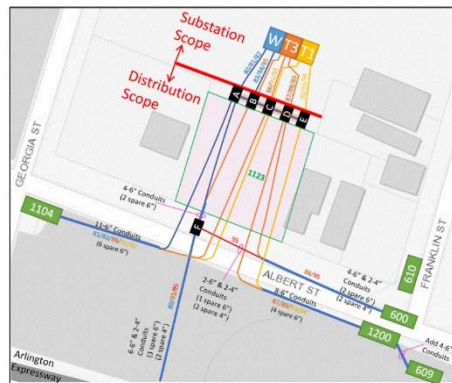


Figure 6: Georgia St New Switchgear to Albert St Conduit Getaway System

Please note that the manhole locations and interconnection details are only approximations and will be finalized by Substation Engineering. All switchgear should have adequate openings to accommodate up to 6 – 6" conduits.

## JEA Transmission &amp; Substation Projects 20410

## Georgia St 13kV Improvement

ID	Task Name	Duration	Start	Finish	Predecessors	Constraint Type	2009
1	<b>PROCUREMENT</b>	<b>420 days</b>	<b>Wed 4/3/24</b>	<b>Tue 11/11/25</b>		<b>s Possible</b>	
2	Switchgear PO	20 days	Fri 9/20/24	Thu 10/17/24	8SS+10%	s Possible	
3	PM & Engineering Design PO	20 days	Wed 4/3/24	Tue 4/30/24	6SS-20 days	arlier Than	
4	Construction Bid Process/Award/Execute	3 mons	Wed 8/20/25	Tue 11/11/25		11 arlier Than	
5	<b>DESIGN</b>	<b>351 days?</b>	Tue 10/1/24	Tue 2/3/26		<b>s Possible</b>	
6	Survey (Bound/Tree/Wet/Topo/Impr)	30 days	Wed 5/1/24	Tue 6/11/24		arlier Than	
7	General Arrangement Design	90 days	Wed 5/1/24	Tue 9/3/24	6SS	arlier Than	
8	Site Design	120 days	Wed 9/4/24	Tue 2/18/25		7 arlier Than	
9	Foundation Design	60 days	Wed 1/22/25	Tue 4/15/25	8FS-1 mon	arlier Than	
10	Electrical Design	120 days	Wed 1/8/25	Tue 6/24/25	8FS-30 days	s Possible	
11	Permitting (Wet., ERP, FDEP, COJ, etc.)	2 mons	Wed 6/25/25	Tue 8/19/25		10 arlier Than	
12	Substation Packager	15 mons	Fri 10/18/24	Thu 12/11/25		2.s Possible	
13	<b>CONSTRUCTION</b>	<b>277 days</b>	<b>Wed 11/12/25</b>	<b>Wed 12/2/26</b>		<b>s Possible</b>	
14	Pre Construction Meeting	1 day	Wed 11/12/25	Wed 11/12/25		4.s Possible	
15	Contractor Mobilization	5 days	Thu 11/13/25	Wed 11/19/25		14.s Possible	
16	Site Survey And Baselines/Install Monuments	10 days	Thu 11/20/25	Wed 12/3/25		15 arlier Than	
17	Remove Existing T1 switchgear, Cap Bank, Manhole 642	30 days	Thu 12/4/25	Wed 1/14/26		16 As Soon As Possible	
18	Install Ground Grid and Conduits	30 days	Thu 1/15/26	Wed 2/25/26		17.s Possible	
19	Anchor Bolts Delivered to Site	1 day	Thu 1/15/26	Thu 1/15/26		17.s Possible	

## JEA Transmission &amp; Substation Projects 20410

## Georgia St 13kV Improvement

ID	Task Name	Duration	Start	Finish	Predecessors	Constraint Type	2009
20	Excavate/Form/Tie Three Switchgear Foundations	90 days	Thu 2/26/26	Tue 6/30/26	18	earlier Than	
21	Concrete Pour	20 days	Wed 7/1/26	Tue 7/28/26	20	earlier Than	
22	Strip Forms/Foundation Finish Work	20 days	Wed 7/29/26	Tue 8/25/26	21	s Possible	
23	7#5 Copperweld To Structures	10 days	Wed 8/26/26	Tue 9/8/26	22	earlier Than	
24	Backfill/Compact Grounding to Conduit Grade	10 days	Wed 9/9/26	Tue 9/22/26	23	earlier Than	
25	Install Manholes	30 days	Wed 9/23/26	Tue 11/3/26	24	s Possible	
26	Switchgears Delivered to Site	20 days	Thu 10/1/26	Wed 10/28/26	25SS+6 days	earlier Than	
27	Pull/Terminate Cables	25 days	Thu 10/29/26	Wed 12/2/26	26	earlier Than	
28							
29	<b>SUBSTANTIAL COMPLETION</b>	<b>1 day</b>	<b>Thu 12/3/26</b>	<b>Thu 12/3/26</b>	<b>27</b>	<b>s Possible</b>	
30	<b>Substation Commissioning</b>	3 mons	Fri 12/4/26	Thu 2/25/27	29	s Possible	
31	<b>ENERGIZE STATION</b>	<b>0 days</b>	<b>Thu 2/25/27</b>	<b>Thu 2/25/27</b>	<b>30</b>	<b>earlier Than</b>	
32	<b>ISD</b>	1 day?	Wed 3/31/27	Wed 3/31/27		earlier Than	
33	Substation Walk Through	5 days	Fri 12/4/26	Thu 12/10/26	29	s Possible	
34	Punch List Items	30 days	Fri 12/11/26	Thu 1/21/27	33	s Possible	
35	<b>COMPLETE CONSTRUCTION</b>	<b>0 days</b>	<b>Thu 2/25/27</b>	<b>Thu 2/25/27</b>	<b>31</b>	<b>s Possible</b>	
36	Project Closeout	60 days	Fri 2/26/27	Thu 5/20/27	31	s Possible	