

STRINGING TABLES

NOTES :
1. STRING CONDUCTOR AS PER AMBIENT TEMPERATURE IN TABLES.
2. DO NOT ALLOW FOR CREEP.

Section Name: RP-19013-RP-19007								
RP-19013 - RP-19007	VOLTS: OHEW		CONDUCTOR: MERCURY					
EQUIV. SPAN(m): 53.18	SPAN (m): 53.19							
AMBIENT TEMPERATURE (Deg C)	5	10	15	20	25	30	35	40
SAG (m)	0.59	0.66	0.72	0.78	0.84	0.9	0.96	1.01
TIME FOR 3 RETURN WAVES (Secs)	4.28	4.52	4.73	4.93	5.12	5.29	5.45	5.59
TENSION (kN)	1.69	1.52	1.38	1.27	1.18	1.11	1.04	0.99

Section Name: RP-19007-RP-09864								
RP-19007 - RP-09869	VOLTS: OHEW		CONDUCTOR: MERCURY					
EQUIV. SPAN(m): 43.36	SPAN (m): 46.06							
AMBIENT TEMPERATURE (Deg C)	5	10	15	20	25	30	35	40
SAG (m)	0.42	0.49	0.56	0.62	0.69	0.75	0.8	0.86
TIME FOR 3 RETURN WAVES (Secs)	3.55	3.84	4.1	4.34	4.56	4.75	4.93	5.09
TENSION (kN)	1.84	1.58	1.38	1.23	1.12	1.03	0.96	0.89

Section Name: RP-09867 - RP-09864								
RP-09867 - RP-09864	VOLTS: OHEW		CONDUCTOR: MERCURY					
EQUIV. SPAN(m): 43.36	SPAN (m): 43.99							
AMBIENT TEMPERATURE (Deg C)	5	10	15	20	25	30	35	40
SAG (m)	0.38	0.44	0.51	0.57	0.62	0.68	0.73	0.78
TIME FOR 3 RETURN WAVES (Secs)	3.39	3.66	3.92	4.15	4.35	4.54	4.71	4.86
TENSION (kN)	1.84	1.58	1.38	1.23	1.12	1.03	0.96	0.89

Section Name: RP-19013-RP-19007								
RP-19013 - RP-19007	VOLTS: 132kV		CONDUCTOR: URANUS					
EQUIV. SPAN(m): 53.09	SPAN (m): 53.09							
AMBIENT TEMPERATURE (Deg C)	5	10	15	20	25	30	35	40
SAG (m)	0.91	0.96	1	1.05	1.09	1.13	1.17	1.2
TIME FOR 3 RETURN WAVES (Secs)	5.54	5.68	5.81	5.93	6.05	6.16	6.26	6.36
TENSION (kN)	4.62	4.40	4.21	4.04	3.88	3.75	3.62	3.51

Section Name: RP-19007-RP-09864								
RP-19007 - RP-09869	VOLTS: 132kV		CONDUCTOR: URANUS					
EQUIV. SPAN(m): 43.33	SPAN (m): 46.09							
AMBIENT TEMPERATURE (Deg C)	5	10	15	20	25	30	35	40
SAG (m)	0.73	0.78	0.83	0.88	0.92	0.97	1.01	1.05
TIME FOR 3 RETURN WAVES (Secs)	4.8	4.97	5.12	5.27	5.41	5.54	5.66	5.77
TENSION (kN)	4.65	4.34	4.08	3.85	3.66	3.49	3.34	3.21

RP-09867 - RP-09864								
RP-09867 - RP-09864	VOLTS: 132kV		CONDUCTOR: URANUS					
EQUIV. SPAN(m): 43.33	SPAN (m): 43.98							
AMBIENT TEMPERATURE (Deg C)	5	10	15	20	25	30	35	40
SAG (m)	0.66	0.71	0.75	0.79	0.84	0.88	0.92	0.95
TIME FOR 3 RETURN WAVES (Secs)	4.58	4.74	4.89	5.03	5.16	5.28	5.4	5.51
TENSION (kN)	4.65	4.34	4.08	3.85	3.66	3.49	3.34	3.21

Section Name: RP-19004-RP-19007								
RP-19004 - RP-19007	VOLTS: 11kV		CONDUCTOR: 19/12 (.101) CU (EXISTING)					
EQUIV. SPAN(m): 53.06	SPAN (m): 53.16							
AMBIENT TEMPERATURE (Deg C)	5	10	15	20	25	30	35	40
SAG (m)	1.89	1.92	1.94	1.96	1.98	2	2.02	2.04
TIME FOR 3 RETURN WAVES (Secs)	7.57	7.61	7.66	7.7	7.74	7.78	7.82	7.86
TENSION (kN)	1.57	1.55	1.53	1.51	1.50	1.48	1.47	1.45

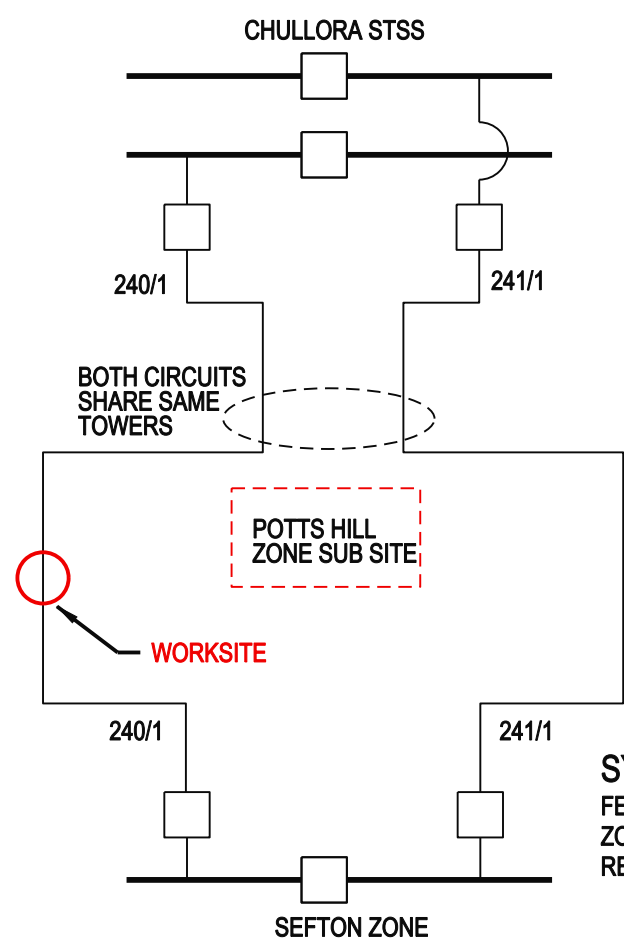
Section Name: RP-19007-RP-09869								
RP-19007 - RP-09869	VOLTS: 11kV		CONDUCTOR: MERCURY					
EQUIV. SPAN(m): 45.95	SPAN (m): 46.05							
AMBIENT TEMPERATURE (Deg C)	5	10	15	20	25	30	35	40
SAG (m)	1.07	1.11	1.15	1.18	1.22	1.25	1.28	1.32
TIME FOR 3 RETURN WAVES (Secs)	5.71	5.81	5.91	6	6.09	6.17	6.25	6.33
TENSION (kN)	0.71	0.69	0.67	0.65	0.63	0.61	0.59	0.58

Section Name: RP-19006-RP-19007								
RP-19006 - RP-19007	VOLTS: Low Voltage		CONDUCTOR: ABC 4'95 LV					
EQUIV. SPAN(m): 43.83	SPAN (m): 43.86							
AMBIENT TEMPERATURE (Deg C)	5	10	15	20	25	30	35	40
SAG (m)	0.9	0.94	0.98	1.01	1.05	1.08	1.12	1.15
TIME FOR 3 RETURN WAVES (Secs)	5.21	5.32	5.43	5.53	5.63	5.72	5.81	5.9
TENSION (kN)	3.27	3.13	3.01	2.90	2.80	2.71	2.62	2.55

Section Name: RP-19007-RP-09863								
RP-19007 - RP-09869	VOLTS: Low Voltage		CONDUCTOR: ABC 4'95 LV					
EQUIV. SPAN(m): 40.96	SPAN (m): 45.98							
AMBIENT TEMPERATURE (Deg C)	5	10	15	20	25	30	35	40
SAG (m)	1.54	1.57	1.61	1.64	1.68	1.71	1.74	1.77
TIME FOR 3 RETURN WAVES (Secs)	6.76	6.83	6.91	6.98	7.05	7.12	7.19	7.25
TENSION (kN)	2.13	2.09	2.04	2.00	1.96	1.92	1.88	1.85

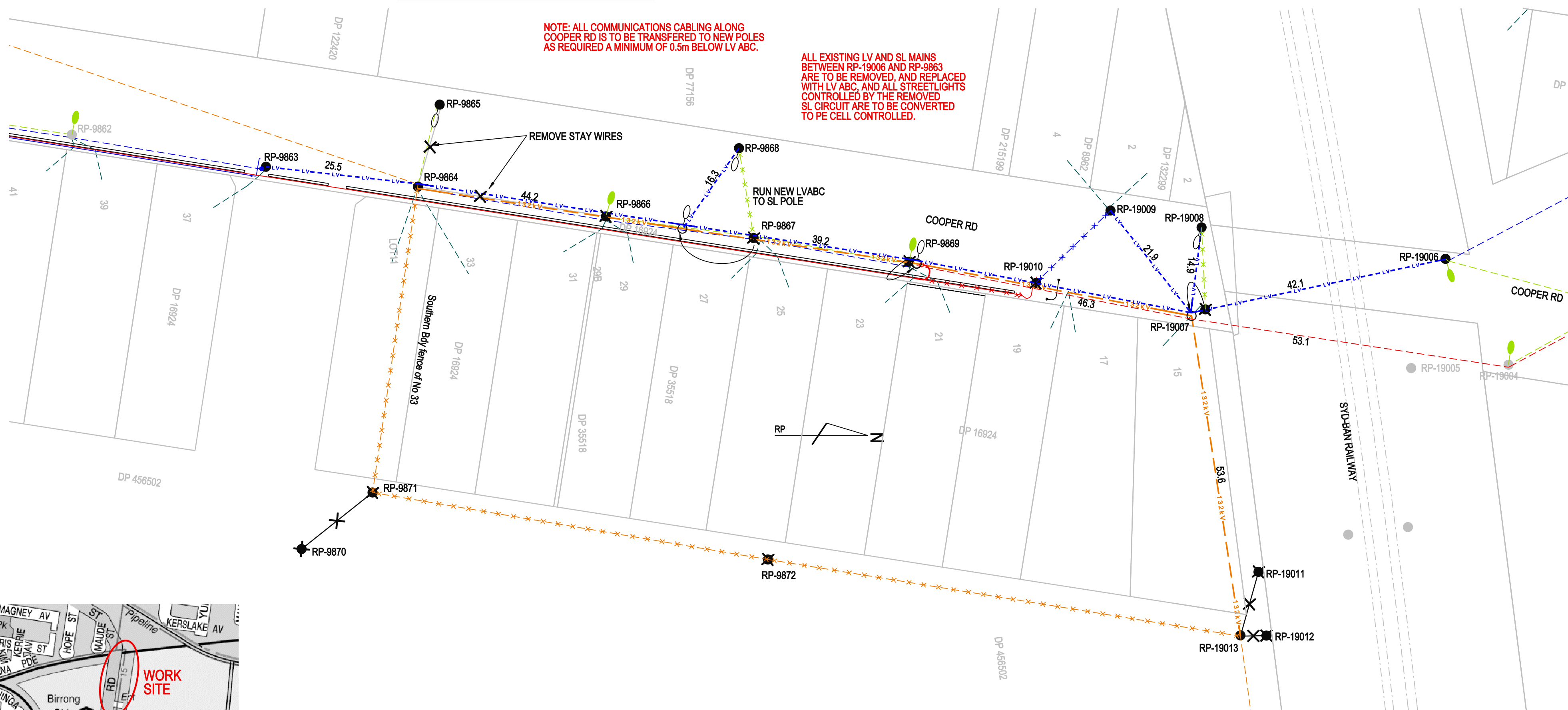
RP-09869 - RP-09867								
RP-09869 - RP-09867	VOLTS: Low Voltage		CONDUCTOR: ABC 4'95 LV					
EQUIV. SPAN(m): 40.96	SPAN (m): 39.2							
AMBIENT TEMPERATURE (Deg C)	5	10	15	20	25	30	35	40
SAG (m)	1.13	1.16	1.18	1.21	1.23	1.26	1.28	1.31
TIME FOR 3 RETURN WAVES (Secs)	5.76	5.83	5.89	5.95	6.02	6.07	6.13	6.19
TENSION (kN)	2.13	2.09	2.04	2.00	1.96	1.92	1.88	1.85

RP-09864 - RP-09863								
RP-09864 - RP-09863	VOLTS: Low Voltage		CONDUCTOR: ABC 4'95 LV					
EQUIV. SPAN(m): 40.96	SPAN (m): 25.4							
AMBIENT TEMPERATURE (Deg C)	5	10	15	20	25	30	35	40
SAG (m)	0.46	0.47	0.48	0.49	0.5	0.51	0.52	0.53
TIME FOR 3 RETURN WAVES (Secs)	3.73	3.78	3.82	3.86	3.9	3.94	3.97	4.01
TENSION (kN)	2.13	2.09	2.04	2.00	1.96	1.92	1.88	1.85



SYSTEM DIAGRAM
FEEDER: 240/1
ZONE: ST16
REF: A5

LEGEND		
PROPOSED	EXISTING	DESCRIPTION
	-	CABLE JOINT
	↑	OH TERMINATION
○	●	POLE
	✕	POLE REMOVE
	—	STREETLIGHT
○	●	UGOH
---	---	132KV OH
	---	Duct
	---	HV OH
	---	HV UG
---	---	LV OH
---	---	LV UG
---	---	SL OH
---	---	SV OH
	•	SEALED_END



LOCALITY SKETCH
NOT TO SCALE
POSTCODE: 2143



** CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING **

CAD DRAWING
DO NOT MANUALLY AMEND
AMENDMENTS

ASSOCIATED DRAWINGS



DESIGNED	ADAM BRADFORD
DRAWN	PATRICIA RIOS
CHECKED	
AUTHORISED	
DATE	
SCALE	1:500
MAP REF.	251/N4
LGA	AUBURN
PROJECT No.	SJ-5197
PROJTRAK No.	PNT010396

DRAFT C - 11/02/2011

BIRONG - COOPER ROAD
132kV FEEDER 240
OVERHEAD MAINS RELOCATION
ROUTE PLAN & CONSTRUCTION SCHEDULE

SIZE	DRAWING No	221465	SHEETS	01 of 01	AMD	0
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