

NP2  
10.7m (35ft) CL. 3 P.T. WOOD

SECONDARY FRAMING:  
25-203  
25-153x2 (FIGURE 1)

NEUTRAL GUYING:  
9-106

1-9mm SPAN GUY ATTACHED 250mm BELOW  
PROPOSED SECONDARY DEAD END

Lead Hand Signature & Date

(Certify Installation Was Built Per The Above)

NP1  
10.7m (35ft) CL. 3 P.T. WOOD

SECONDARY FRAMING:  
25-203  
25-153x2 FIG. 1

NEUTRAL GUYING:  
9-103  
9-106  
9-108

1-9mm SPAN GUY ATTACHED 250mm BELOW  
PROPOSED SECONDARY DEAD END

1-9mm GUY ATTACHED 250mm BELOW  
PROPOSED SPAN GUY

ANCHOR LEAD - 3m NORTH  
INSTALLED LEAD LENGTH : \_\_\_\_\_ m

Lead Hand Signature & Date

(Certify Installation Was Built Per The Above)

EX. HP4051  
10.7m (35ft) CL. 3 P.T. WOOD

SECONDARY FRAMING:  
EX. 25-203  
EX. 25-153 x2  
25-203

NEUTRAL GUYING:  
EX. 9-103  
EX. 9-108

Lead Hand Signature & Date

(Certify Installation Was Built Per The Above)

INSTALL 4 / 0 AL TRIPLEX SECONDARY  
FROM HP4051 TO NP1  
AT FULL TENSION  
SEE TABLE 1

Lead Hand Signature & Date

(Certify Installation Was Built Per The Above)

INSTALL 4 / 0 AL TRIPLEX SECONDARY  
FROM HP5803 TO NP2  
AT FULL TENSION  
SEE TABLE 1

Lead Hand Signature & Date

(Certify Installation Was Built Per The Above)

INSTALL 1 / 0 AL TRIPLEX SECONDARY FROM  
NP1 TO MAST ON NORTH SIDE OF 165 MT  
PLEASANT ST  
AT SERVICE TENSION  
SEE TABLE 2

Lead Hand Signature & Date

(Certify Installation Was Built Per The Above)

INSTALL 1 / 0 AL TRIPLEX SECONDARY FROM  
NP1 TO MAST ON SOUTH SIDE OF 165 MT  
PLEASANT ST  
AT SERVICE TENSION  
SEE TABLE 2

Lead Hand Signature & Date

(Certify Installation Was Built Per The Above)

INSTALL 1 / 0 AL TRIPLEX SECONDARY FROM  
NP2 TO MAST ON 167 MT PLEASANT ST  
AT SERVICE TENSION  
SEE TABLE 2

Lead Hand Signature & Date

(Certify Installation Was Built Per The Above)

INSTALL 1 / 0 AL TRIPLEX SECONDARY FROM  
NP2 TO MAST ON 169 MT PLEASANT ST  
AT SERVICE TENSION  
SEE TABLE 2

Lead Hand Signature & Date

(Certify Installation Was Built Per The Above)

RM. 4 / 0 AL TRIPLEX SECONDARY CONDUCTOR  
BETWEEN HP5251 AND 169 MT PLEASANT ST  
AS SHOWN

Lead Hand Signature & Date

(Certify Installation Was Built Per The Above)

RM. HP5251  
10.7m (35ft) CL. 3 P.T. WOOD

Lead Hand Signature & Date

(Certify Installation Was Built Per The Above)

RM. 4 / 0 AL TRIPLEX SECONDARY CONDUCTOR  
BETWEEN HP5251 & HP5803 AS SHOWN

Lead Hand Signature & Date

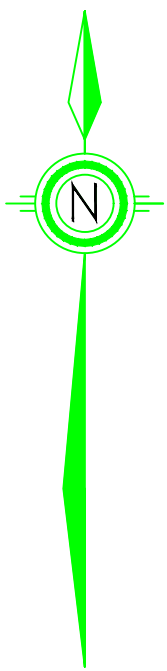
(Certify Installation Was Built Per The Above)

EX. HP5803  
10.7m (35ft) CL. 4 P.T. WOOD

SECONDARY FRAMING:  
EX. 25-102  
EX. 25-153  
EX. 25-203 (REMOVE)  
25-203

Lead Hand Signature & Date

(Certify Installation Was Built Per The Above)



LEGEND	
LINE TYPES	
OVERHEAD 30 27.6kV DISTRIBUTION LINE	---
OVERHEAD 10 16kV DISTRIBUTION LINE - RED PHASE	---
OVERHEAD 10 16kV DISTRIBUTION LINE - WHITE PHASE	---
OVERHEAD 10 16kV DISTRIBUTION LINE - BLUE PHASE	---
UNDERGROUND 30 27.6kV DISTRIBUTION LINE	---
UNDERGROUND 10 16kV DISTRIBUTION LINE - RED PHASE	---
UNDERGROUND 10 16kV DISTRIBUTION LINE - WHITE PHASE	---
UNDERGROUND 10 16kV DISTRIBUTION LINE - BLUE PHASE	---
UNDERGROUND 120/240V SECONDARY (30 AL TRIPLEX)	---
OVERHEAD 120/240V SECONDARY	---
UNDERGROUND 208/120V SECONDARY	---
OVERHEAD 208/120V SECONDARY	---
OVERHEAD 600/347V SECONDARY	---
UNDERGROUND 600/347V SECONDARY	---
OVERHEAD ST.LIGHT SECONDARY CONDUCTOR	---
UNDERGROUND ST.LIGHT SECONDARY CONDUCTOR	---
4-100mm SPARE DUCTS	---
6-100mm SPARE DUCTS	---
CONCRETE ENCASED	---
PROPERTY LINE	---

SYMBOLS	
PROPOSED POLEMOUNT TRANSFORMER	▲
EXISTING POLEMOUNT TRANSFORMER	▲
PROPOSED POLEMOUNT POLYPHASE TRANSFORMER	▲
EXISTING POLEMOUNT POLYPHASE TRANSFORMER	▲
PADMOUNT TRANSFORMER	▲
EXISTING PADMOUNT TRANSFORMER	▲
PROPOSED GUY AND ANCHOR	→
EXISTING GUY AND ANCHOR	→
PROPOSED HYDRO POLE	●
EXISTING HYDRO POLE	●
LUMINAIRE	○
60 AMP STREET LIGHT DISCONNECT BOX	⊞
FUSED CUTOFF (100k unless otherwise specified)	⊞
FAULT TAKER 10a unless otherwise specified	⊞
GANG OPERATED SWITCH	⊞
SOLID INLINE SWITCH	⊞
SWITCH/ SWITCHING UNIT (refer to note)	⊞
FAULT INDICATOR	⊞

FOR  
CONSTRUCTION

THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION THAT CANNOT BE USED, REPRODUCED OR DISCLOSED, IN WHOLE OR IN PART, WITHOUT THE PRIOR WRITTEN AUTHORIZATION FROM GRANDBRIDGE ENERGY INC. GRANDBRIDGE ENERGY INC. MAKES NO GUARANTEES, REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE USE, ACCURACY, CURRENCY, SUITABILITY OR RELIABILITY OF THE DATA PROVIDED HEREIN, REGARDLESS OF ITS FORMAT OR THE MEDIUM OF ITS TRANSMISSION. YOU ACCEPT THE DATA AS IS, AND ASSUMES ALL RISKS ASSOCIATED WITH ITS USE. BY ACCEPTANCE OF THIS DATA, YOU AGREE NOT TO USE THIS DATA FOR YOUR OR ANY OTHER PARTIES BENEFIT, OR IN TRANSFER THIS DATA OR PROVIDE ACCESS OR ANY PART OF IT TO ANOTHER PARTY UNLESS YOU INCLUDE A COPY OF THIS AGREEMENT WITH THE DATA. NEITHER GRANDBRIDGE ENERGY INC. NOR ITS SUPPLIERS ASSUME ANY RESPONSIBILITY FOR ACTUAL OR CONSEQUENTIAL DAMAGE INCURRED AS A RESULT OF AN USER'S RELIANCE ON THIS DATA. IF YOU DO NOT ACCEPT THE FOREGOING TERMS AND CONDITIONS, YOU MUST IMMEDIATELY SO ADVISE US AND RETURN THIS DOCUMENT AND ALL DATA HEREIN, AS WELL AS ANY COPIES YOU MAY HAVE MADE OF THE FOREGOING.

ALL WORK MUST BE DONE IN ACCORDANCE WITH ELECTRICAL SAFETY AUTHORITY ONTARIO REGULATION 2204 - ELECTRICAL DISTRIBUTION SAFETY. GRANDBRIDGE ENERGY OVERHEAD FRAMING STANDARDS (LATEST EDITION), GRANDBRIDGE ENERGY GENERAL UNDERGROUND MANUAL (LATEST EDITION) AND CONSTRUCTION DRAWINGS.

Certificate of Approval (design)  
The installation covered this document meets the safety requirements of Section 4 of Ont. Reg. 2204.

Name \_\_\_\_\_ Date \_\_\_\_\_  
Signature \_\_\_\_\_ Position \_\_\_\_\_

Record of Inspection  
This certifies that the construction as recorded on this drawing or form has been inspected in accordance with Ont. Reg. 2204.

Name \_\_\_\_\_ Date \_\_\_\_\_  
Signature \_\_\_\_\_ Position \_\_\_\_\_

This is to certify that the construction as recorded in this drawing is consistent with the approved plan, Standard Designs, or work instruction and that approved equipment has been used:

Name \_\_\_\_\_ Date \_\_\_\_\_  
Signature \_\_\_\_\_ Position \_\_\_\_\_

Q.		ISSUED FOR CONSTRUCTION	
B.		EIT REVIEW	
A.	2024/01/23	ENG. CIRCULATIONS	GC
REV.	DATE		BY

TITLE:  
165 Mount Pleasant St  
Pole Relocation and 165 Mount Pleasant Energization

SCALE: 1:200  
JOB NUMBER: C24-B-017  
DESIGNER: GC  
DATE: 2024/03/06  
DRAWING:

TABLE 2 (1/0 ALUMINUM TRIPLEX)											
Initial (Stringing) Condition								RTS = 3883kg			
Span (m)								Tension			
Sag (cm)								kg	lbs	kN	%RTS
Ambient temperature (°C)	22	26	30	34	38						
30	66	92	122	157	196			53	117	0.52	2.6
20	64	89	119	153	191			55	121	0.54	2.7
10	62	87	116	149	186			56	123	0.55	2.8
0	60	84	112	144	180			58	128	0.57	2.9
-10	59	82	109	140	175			60	132	0.59	3
-20	56	79	105	135	168			62	137	0.61	3.1
-30	55	77	102	131	164			64	141	0.63	3.2

Final Condition											
Span (m)								Tension			
Sag (cm)								kg	lbs	kN	%RTS
Temp (°C)	Wind (N/m²)	Ice (mm)	22	26	30	34	38				
-20	400	12.5	63	88	117	150	188	270	595	2.65	13.3
0	0	0	62	87	116	149	186	56	123	0.55	2.8
50	0	0	70	98	131	168	210	50	110	0.49	2.5
100	0	0	78	109	145	186	233	45	99	0.44	2.2

TABLE 1 (4/0 ALUMINUM TRIPLEX BUS)											
Initial (Stringing) Condition								RTS = 3883kg			
Span (m)								Tension			
Sag (cm)								kg	lbs	kN	%RTS
Ambient temperature (°C)	20	25	30	35	40	45					
30	29	45	65	89	116	146		200	441	1.96	5.2
20	27	42	60	82	107	136		216	476	2.12	5.6
10	25	38	55	75	98	125		235	519	2.31	6.1
0	22	35	50	68	89	113		260	573	2.55	6.7
-10	20	31	44	61	79	100		293	645	2.87	7.5
-20	17	27	39	52	69	87		337	744	3.31	8.7
-30	14	23	33	44	58	73		400	881	3.92	10.3

Final Condition											
Span (m)								Tension			
Sag (cm)								kg	lbs	kN	%RTS
Temp (°C)	Wind (N/m²)	Ice (mm)	20	25	30	35	40	45			
-20	400	12.5	24	37	54	73	96	121	751	1655	7.36
0	0	0	22	35	50	68	89	113	260	573	2.55
50	0	0	33	51	74	100	131	166	177	389	1.73
100	0	0	41	64	92	126	164	208	141	311	1.38