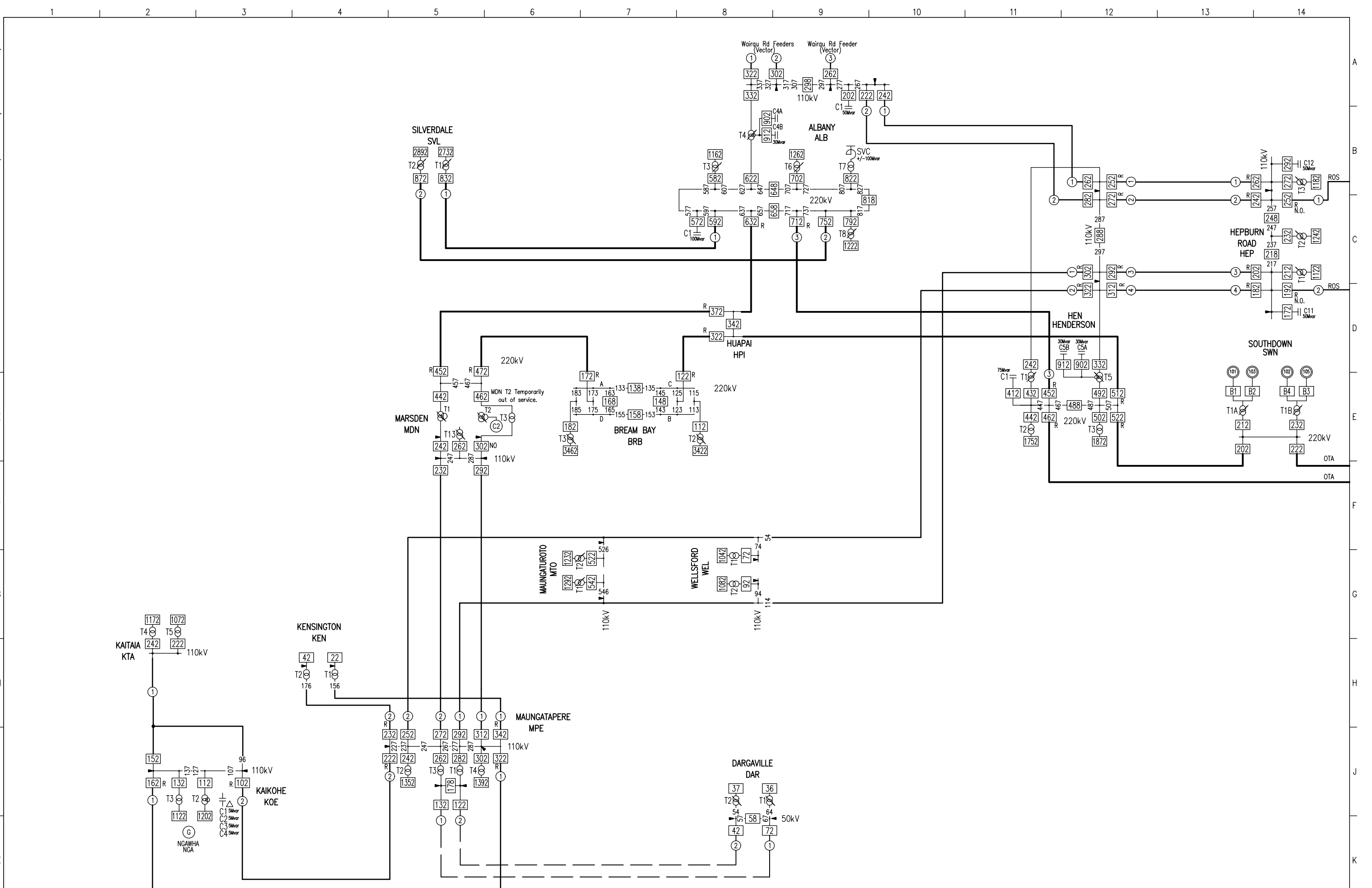


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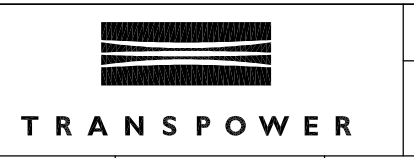
30435/NIPS-1

	Buswork		T1 Transformer Banks	

Key For Colour Version Only

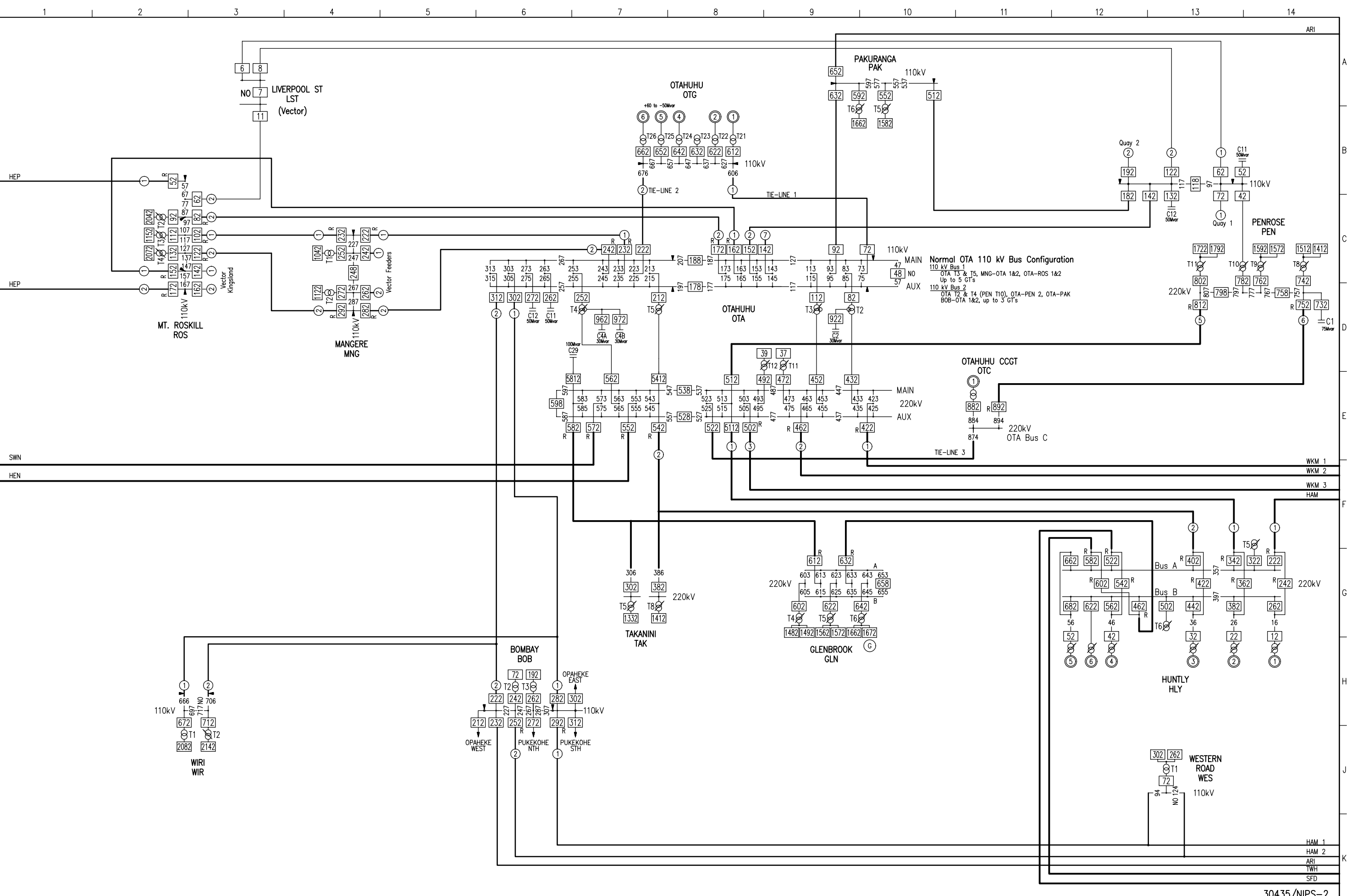
	Equipment under Transpower operational control
	Equipment not under Transpower operational control

DRAWN	D. Chapman	8/93
CHECKED	M. Frater	8/93
REC. ISSUE	S. Mutton	8/93
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TRANSPower TRANSMISSION	NIPS-1
NORTH ISLAND POWER SYSTEM DIAGRAM (SHEET 1 OF 5)	
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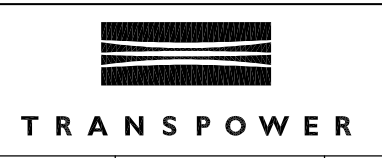
Normal OTA 110 kV Bus Configuration
 110 kV Bus 1
 OTA T3 & T5, MNG-OTA 1&2, OTA-ROS 1&2
 Up to 5 GT's
 110 kV Bus 2
 OTA T2 & T4 (PEN T10), OTA-PEN 2, OTA-PAK
 BOB-OTA 1&2, up to 3 GT's

Key For Colour Version Only

- | | | | | | | |
|-------------------|-----------------------|---------------------------------|----------------------------------|---------------------------|-----------------------|-------------------------------|
| — HVDC | — Buswork | 102 Circuit Breaker | T1 Transformer Banks | Auto-Trans. with Tertiary | V Voltage Transformer | -L+ Auto Earth Switch Reactor |
| — 220 kV AC | -163 Disconnector | 518 CB Auto Reclose | Transformer Three Winding | Voltage Regulator | C Capacitor V.T. | Capacitor |
| — 110 kV AC | -163 NO Normally Open | 518 CB Normally Open | On Load Tap Change | (C) Condenser | — Syncro. V.T. | — Syncro. Cap. V.T. |
| — 50/66 kV AC | (1) Generation | * Limited C.B.s (No Protection) | Transformer Three Winding (OLTC) | ● Synchronising Point | — | — |
| ① Circuit Numbers | (G) Local Generation | | | | | |

42	Equipment under Transpower operational control
42	Equipment not under Transpower operational control

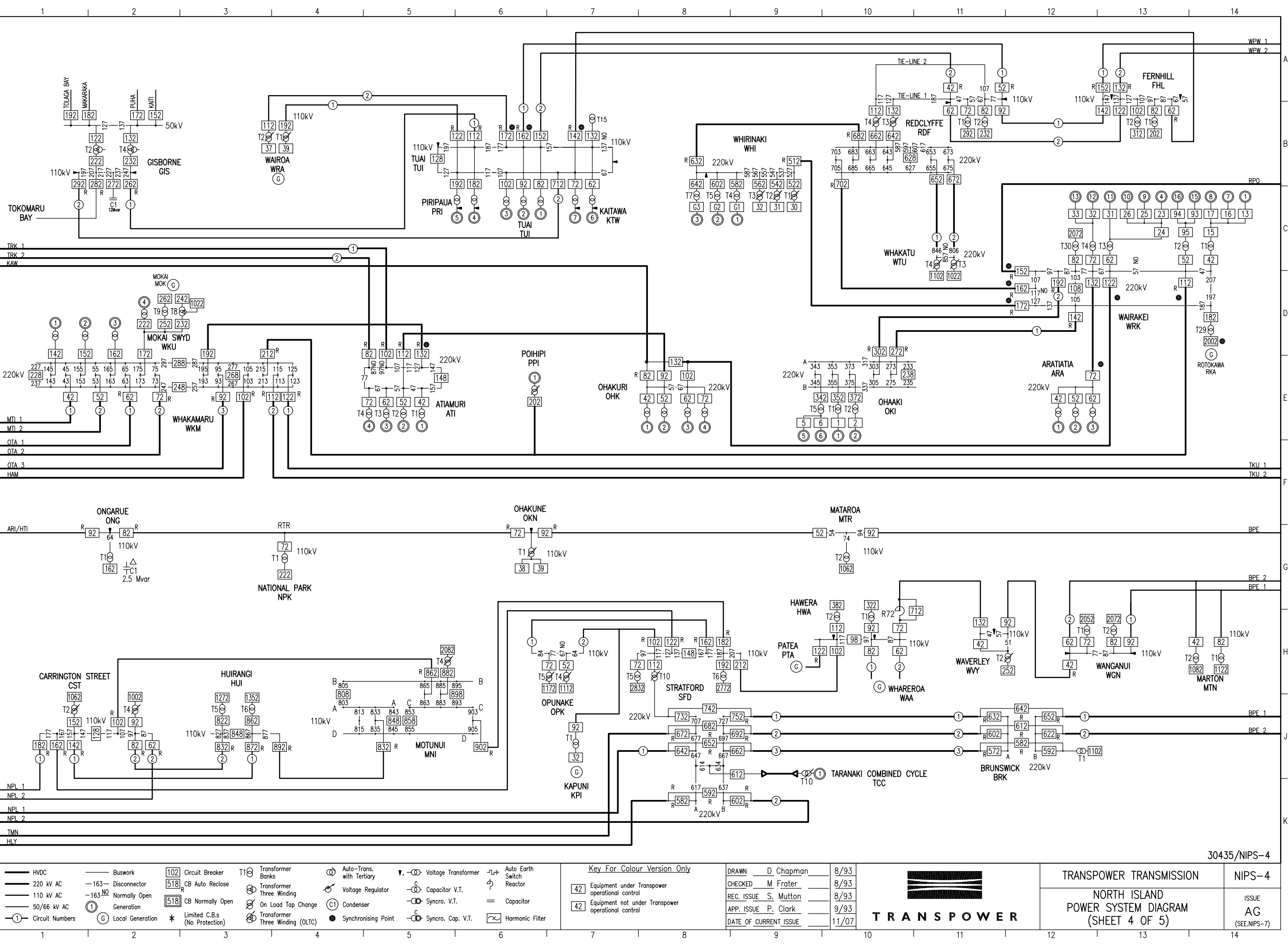
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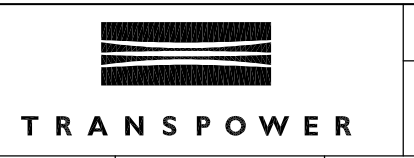
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HVDC	Buswork	Circuit Breaker	Transformer Banks	Auto-Trans. with Tertiary	Voltage Transformer	Auto Earth Switch
220 kV AC	-163- Disconnector	CB Auto Reclose	Transformer Three Winding	Voltage Regulator	Capacitor V.T.	Reactor
110 kV AC	-163- Normally Open	CB Normally Open	On Load Tap Change	Condenser	Syncro. V.T.	Capacitor
50/66 kV AC	Generation	Limited C.B.s (No Protection)	Transformer Three Winding (OLTC)	Synchronising Point	Syncro. Cap. V.T.	Harmonic Filter

Key For Colour Version Only

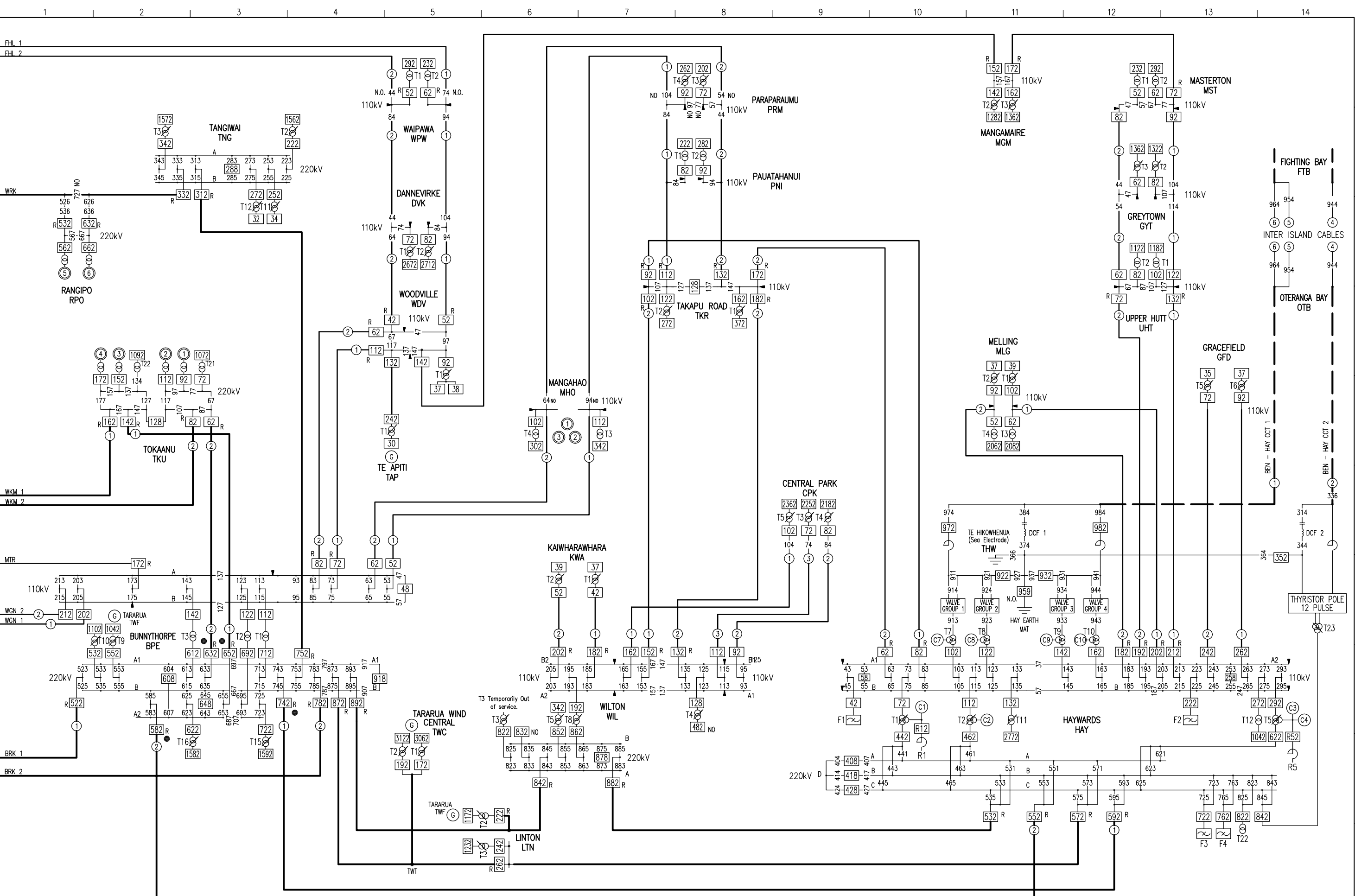
Equipment under Transpower operational control
Equipment not under Transpower operational control

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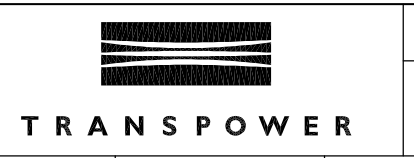


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	Equipment under Transpower operational control
	Equipment not under Transpower operational control

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