

1. GENERAL

ALL ELECTRICAL WORKS WITHIN PWC TUNNELS SHALL BE COMPLETED BY PWC PERSONNEL OR UNDER THE SUPERVISION OF PWC PERSONNEL AT COST TO DEVELOPER.

PWC WILL PROVIDE THE NOMINAL CABLE ROUTE DURING DESIGN PHASE. ALL FINAL DETAILED DESIGN DRAWINGS SHOWING THE EXACT ROUTE OF THE CABLE WITHIN THE TUNNEL SHALL BE SUBMITTED TO PWC FOR APPROVAL. NO CONSTRUCTION OR INSTALLATION WORK IS TO OCCUR WITHOUT WRITTEN APPROVAL. TO IMPROVE ACCESS AND SAFETY, PWC RESERVES THE RIGHT TO ALTER THE ROUTE OF ANY CABLE AT ANY STAGE OF THE WORKS.

ANY DRILLING OR CABLE ENTRY INTO THE TUNNELS MUST ONLY OCCUR IN THE PRESENCE OF PWC PERSONNEL WITH APPROPRIATE SENTRIES POSTED.

IF NON-PWC PERSONNEL ARE REQUIRED TO WORK IN THE TUNNEL, THE FOLLOWING IS REQUIRED:

- AAR20 FOR ALL WORKERS ENTERING OR STANDING BY FOR TUNNEL WORKS, SITEPASS VALIDATION
- APPROPRIATE ELECTRICAL LICENCE VALIDATION (AS APPROPRIATE)
- COMPLIANCE WITH POWER SERVICES WPS 003 - WORKING IN CABLE TUNNELS AND CABLE BASEMENTS.
- COMPLIANCE WITH PWC SWMS 020 - HYDRATION AND HEAT STRESS MANAGEMENT
- HIGH VIS ARC RATED PROTECTIVE CLOTHING (REFERRED TO AS PPE1)
- CABLE TUNNEL RESCUE PLAN AND BRIEFING
- SAFETY MANAGEMENT PLAN ENCOMPASSING BUT NOT LIMITED TO THE ABOVE AND ALL OTHER RELEVANT HSE REQUIREMENTS
- ALL PLANS AND SAFETY DOCUMENTATION IS TO BE APPROVED BY PWC PRIOR TO COMMENCEMENT OF WORK IN TUNNELS.

FUTURE ACCESS TO CONDUITS/CABLES SHALL BE CONSIDERED AND PLANNED AS APPROPRIATE

2. CONSTRUCTION

MINIMUM 600mm ACCESS CLEARANCE SHOULD BE MAINTAINED IN CENTRELINE FOR MAINTENANCE AND ACCESSIBILITY. IF THIS IS NOT ACHIEVEABLE, A RISK ASSESSMENT AND ADDITIONAL DESIGN CONSIDERATIONS SHALL BE COMPLETED AND SUBMITTED TO PWC FOR APPROVAL.

IF UNISTRUT IS USED, ALL BURRS AND SHARP EDGES SHALL BE REMOVED AND ALL PROTRUDING ENDS MUST BE CAPPED WITH YELLOW SAFETY CAPS.

CORROSION PROTECTION FOR SUPPORTING STRUCTURES SHALL BE CONSIDERED AND APPLIED AS APPROPRIATE

3. FLOOR AND WALLS

THE GROUND LEVEL OF THE TUNNEL SHALL BE KEPT CLEAR OF ANY INSTALLATION. THE WALLS OF THE CABLE TUNNEL SHALL BE CLEAR TO MINIMUM HEIGHT OF 250mm ABOVE FINISHED FLOOR LEVEL.

4. CABLES

ALL POWER CABLES IN TUNNELS SHALL COMPLY WITH THE REQUIREMENTS OF AS/NZS 1660.5.2.

ALL NEW CABLES INSTALLED WITHIN TUNNELS SHOULD BE SPECIFIED TO BE OF LOW SMOKE ZERO HALOGEN (LSZH) TYPE OUTER JACKET TO MINIMISE SMOKE TOXICITY IN THE EVENT OF FIRE. IF THIS REQUIREMENT CAN NOT BE MET, PWC MAY APPROVE ALTERNATIVE SOLUTIONS ON A CASE BY CASE BASIS.



HIGH VOLTAGE CABLES SHALL BE SEPARATED AS MUCH AS POSSIBLE FROM LV CABLES.

5. JOINTS

CABLE JOINTS WITHIN TUNNELS SHALL BE MINIMISED.

IF ESSENTIAL, JOINTS SHALL BE ENCAPSULATED AND/OR FIRE PROTECTIVE COATING MUST BE APPLIED IN CONSULTATION WITH POWER AND WATER TO MINIMISE THE RISK OF JOINT FAILURE DAMAGING ADJACENT CABLES AND/OR INITIATING FIRE IN THE TUNNEL.

WHEN WORKING ADJACENT TO EXISTING HV CABLE JOINTS, HV CABLE JOINTS SHALL BE COVERED WITH POWER AND WATER APPROVED BLAST BLANKETS.

								DES B.CHEUNG DRN A.NATHAN CKD B.VANDERSTELT APPD B.CHEUNG SCALE N.T.S. ISSUED FEB'22 ALL DIM. IN mm		POWER STANDARD DRAWING CABLE TUNNEL CONSTRUCTION NOTES				
0	ISSUED FOR CONSTRUCTION					A.N.	MAR'22	B.C	B.V	A3	DRAWING NUMBER	S02-04-03-02		
NO	DESCRIPTION					DRN	DATE	CKD	APPD			CAD PRODUCT - DO NOT AMEND MANUALLY		
AMENDMENTS														