

0		при	SED:22	BV	p.c		DES	HT		
7	AMENDED GENERAL NOTES 6 & 10. INCLUDED CIVIL NOTE 10, CORRECTED DIMENSIONS	R.A.	OCT'21	B.V.	A.N.		DRN	SHW		٢I
6	GENERAL NOTES UPDATED. SHEET 2, 3 & 4 AMENDED		JUL'21	B.V.	B.C.		CKD	MP	1	UN.
1	PRECAST SLAB DRAWING	N.A.		-	D.C.					AR
4	AMENDED DRAWING FRAME & FONTS	CWM	FEB 2020	BV	BV BV	Doworlabtor				DF
2	TITLE BLOCK & DRAWING NUMBER FORMATTED	ĸŤ	FEB 19	CC		FUVVEI VVALEI	SCALE			
1	INCLUDE BROWNFIELDS WALL INSTALLATION NOTES ISSUED FOR CONSTRUCTION	PH SHW	APR 18	BC MP	BV MP		ISSUED	Sept 2017		D
NO	DESCRIPTION	DRN	DATE	CKD	APPD	NORTHERN TERRITORY	ALL DIM. IN	mm		N
	AMENDMENTS						DRAFTING S	STANDARD TO	A.S.1100	

PWC FOR APPROVAL

- 4. FOR ALL OTHER HEAVIER SUBSTATIONS OR THOSE WITH DIFFERENT CENTRE OF GRAVITY REQUIRES THE FOUNDATION DESIGN TO BE REVIEWED AND SUBMITTED TO PWC FOR APPROVAL.
- HEAVY DUTY ORANGE 100mm DIAMETER CONDUITS WITH 1200mm RADIUS BENDS SHALL BE USED FOR HV AND LV CABLE ENTRY
- 7. IT IS PREFERRED THAT 400mm² CABLES SHALL BE TERMINATED IN SWITCH BAYS 1 AND/OR 2.
- 8. ALL CONDUITS (EXCEPT FOR DRAIN) SHALL BE CUT LEVEL 30mm ABOVE THE FINISHED GROUT LEVEL.
- 9. SWITCH BAY 3 IS RESERVED FOR THE FUSED TRANSFORMER TEE-OFF.
- 10. ALL CONDUIT ENDS SHALL BE SEALED WITH PWC APPROVED SEALANT. REFER TO PWC STANDARD DRAWING S02-01-09-06.
- 11. REFER TO DRAWING S02-01-07-18 FOR CENTRE OF GRAVITY DETAILS.
- 12. SUBSTATION DETAILS ARE NOT TO BE COPIED NOR THE INFORMATION HEREON DIVULGED TO ANY THIRD PARTY OR USED FOR THE MAKING OF APPARATUS WITHOUT THE WRITTEN PERMISSION OF WILSON TRANSFORMER CO. PTY. LTD.
- 13. THE PRECAST SLAB AS PER S02-01-05-12 SHALL BE USED WHEN AVAILABLE. THE MARK 2 SLAB AS PER S02-02-06-31 2 CAN ALTERNATIVELY BE USED. REFER TO \$02-02-06-42 FOR ALTERNATE CONDUIT LOCATIONS.
- 14. INSTALL SUITABLE OUTDOOR NEUTRAL CURING SILICON BEAD AT EDGE OF CONCRETE SLAB CABLE VOID NO GREATER THAN

CIVIL NOTES:-

GENERAL NOTES:-

- THE CONTRACTOR IS RESPONSIBLE FOR ASSESSING SOIL CONDITIONS PRIOR TO COMMENCING WORK. HAZARD IDENTIFICATION AND RISK ASSESSMENT ARE REQUIRED PRIOR TO THE COMMENCEMENT OF WORKS.
- THIS CIVIL DESIGN IS APPROVED FOR THE FOLLOWING SOIL CONDITIONS. OTHER SOIL CONDITIONS REQUIRE ENGINEERING DESIGN
 - GRAVEL WITH GOOD SURFACE WATER DRAINAGE AND FOOTING NORMALLY ABOVE WATER TABLE.
 - WITH REASONABLE SURFACE DRAINAGE.
 - 2c SOIL GROUP 3: (POOR BEARING 100kPa) SOFT CLAY. POOR COMPACTED SAND AND SOILS THAT TEND TO ABSORB LARGE AMOUNTS OF WATER, PROVIDED THESE DO NOT DEVELOP INTO SLUSH.
- 3. CEMENT STABILISED SAND SHALL BE 5% CEMENT WITH COHESION = 1000kPa AND A FRICTION ANGLE = 30 DEGREES. THE CONTRACTOR SHALL PERFORM TESTS ON SITE TO PROVE THE REQUIRED STRENGTH IS ACHIEVED.
- 4. MAXIMUM ALLOWABLE SURCHARGE IS 15kPa. THE CONTRACTOR IS RESPONSIBLE FOR ACCESSING SOIL CONDITIONS PRIOR TO COMMENCING WORK. KEEP ALL EXCAVATION AND LIFTING PLANT A MINIMUM OF 2000mm FROM THE EXCAVATION EDGE.
- 5. THE PRECAST SLAB SHALL BE FOUNDED ON COMPETENT NATURAL GROUND COMPACTED TO 95% MMDD. IF TOP SOIL 95% MMDD OF 20% AT 2.5mm AND A PLASTICITY INDEX BETWEEN 2% AND 15%, COMPACTED TO 95% MMDD
- 6. FOR SUBSTATIONS REQUIRING A REVERSED LV CONDUIT FOR CUSTOMER CABLE ENTRY CONDUIT, A 450mm WIDE TRENCH SHALL BE EXCAVATED AND BACKFILLED WITH 5% CEMENT STABILISED SAND. EXCAVATION POSITION TO SUIT CABLE POSITION REQUIREMENTS.
- 7. IF SUBSTATION IS ADJACENT TO PAVING THEN ENSURE PAVING IS FLUSH WITH EDGE OF EARTH APRON.
- 8. ENSURE 30 THICK GROUT (NOMINAL) IS SLOPED TOWARD DRAIN TO ENSURE ADEQUATE DRAINAGE.
- 9. RETAINING WALL OR PIERS AS PER MK2 CIVIL INSTALLATION (S02-02-06-31) MAY BE USED ONLY IF EXCAVATION SPACE RESTRICTIONS EXIST FOR BROWNFIELDS INSTALLATION. USE MK2 INSTALLATION METHODS AS REQUIRED FOR THIS SENARIO.
- 10. ALL LIFTING ANCHORS TO BE GROUTED OR CONCRETE FILLED TO BE FLUSH WITH CONCRETE SLAB FACE.

1. INSTALLATION DETAILS ARE PROVIDED FOR THE GENERAL 4000x3500 EASEMENT 2. CIVIL FOUNDATION IS DESIGNED FOR PWC STANDARD SPECIFICATION SOIL TYPE 1, 2 & 3 AND LIMITED TO THE PWC APPROVED 500kVA, 750kVA OR 1000kVA MK3 PACKAGE SUBSTATION (5100 KG MAX.) FITTED WITH EITHER A 3 WAY OR 4 WAY RMU. 3. FOR OTHER SOIL TYPES THE PWC STANDARD CIVIL DESIGN MUST BE REVIEWED AND THE AMENDED DESIGN SUBMITTED TO 5. MK3 PACKAGE SUBSTATION FOUNDATION AND EARTHING, REFER TO S02-02-06-31 SHEET 2 AND S02-02-05-10 FOR DETAILS. EACH HV CABLE SHALL OCCUPY ONE SINGLE 100mm CONDUIT. 4 x 240mm² LV CABLES SHALL BE INSTALLED IN EACH 100mm CONDUIT ON THE LV SIDE. 20mm WIDTH TO LIMIT WATER INGRESS INTO CABLE VOID. THIS SHALL BE DONE PRIOR TO THE PLACEMENT OF THE SUBSTATION 2a - SOIL GROUP 1: (GOOD BEARING CAPACITY 300kPa) WELL COMPACTED ROCK SOIL. HARD CLAY AND WELL BONDED SAND AND 2b - SOIL GROUP 2: (MEDIUM BEARING 200kPa) COMPACT MEDIUM CLAY. WELL BONDED SANDY LOAM. BONDED SAND AND GRAVEL IS PRESENT, REMOVE AND REPLACE WITH FILL MATERIAL THAT IS FREE OF ORGANIC MATTER, HAS A MINIMUM SOAKED CBR AT POWER STANDARD DRAWING VIL, MK3 PACKAGE SUBSTATION GENERAL

RRANGEMENT CABLE ENTRY AND FOUNDATION TAILS FLEVATION - SHEET 1 OF 4

3	DRAWING NUMBER	S02-02-06-37 <u>1</u>
00	CAD PRODU	ICT - DO NOT AMEND MANUALLY





OUT OND	. SLOPED ——— UIT		– CONDUITS. CUT OFF 30 ABOVE FINISHED GROUT LEVEL – DN20 DRAINAGE CONDUIT FLUS WITH TOP OF GROUT	Н
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	100	580	= 1 00	
	<u>CONDUIT ENTR'</u> Scale 1:25	<u>Y DETAILS</u>		
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V I BL T(IL, MK3 P E ENTRY DUT DRAWI	ACKAGE SI AND FOUNI NG - SHEI	JBSTATION DATION DETAILS ET 2 OF 4	
	DRAWING NUMBER	S02-	-02-06-37_2	8
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CAD PROL	DRAWING NUMBER	CIVIL, MK3 PACK CABLE ENTRY AI CONSTRUCTION S	POWER	STEP 5 - BACKFILL THE PIT AND INSTALL EARTH APRON. MAKE EXISTING PAVING FLUSH WITH EARTH APRON AS REQUIRED
JUCI – UO NOT AMENU MANUALLY	S02-02-06-37 <u>3</u>	AGE SUBSTATION ND FOUNDATION DETAILS SEQUENCE - SHEET 3 OF 4	STANDARD DRAWING	CONSTRUCTION SEQUENCE SCALE 1:50 CONSTRUCTION SEQUENCE NOTES:- 1. ESTABLISH COMPETENT NATURAL GROUND OR SELECT FILL BASE FOR THE SLAB AND COMPACT TO 95% MMDD. 2. MARK OUT THE SITE AND POSITION THE STANDARD JIG. REFER DRAWING S02-02-06-38. 3. EXCAVATE THE PIT. 4. INSTALL THE CONDUITS. 5. PLACE THE 5% CEMENT STABILISED SAND AND ALLOW FOR IT TO REACH THE REQUIRED STRENGTH. 6. REMOVE THE JIG AND INSTALL THE PRECAST SLAB. 7. GROUT THE CONDUIT ENTRY OPENING AND CUT OFF THE CONDUITS 30mm ABOVE THE GROUT. ALL LIFTING ANCHORS TO BE GROUTED OR CONCRETE -FILLED TO BE FLUSH WITH CONCRETE SLAB FACE.
AM				8. INSTALLTHE MK3 SUBSTATION. 9. BACKFILL THE PIT.
				10. INSTALL THE EARTH APRON.



GROUT THE CONDUIT ENTRY OPENING AND CUT OFF THE CONDUITS 30mm ABOVE THE GROUT. ALL LIFTING ANCHORS TO BE GROUTED OR

	POWE	R STANDARD DRAWING	
	CIVIL, MK3 PACH CABLE ENTRY A	AGE SUBSTATION	
	CONSTRUCTION	SEQUENCE - REVERSED IGEMENT SHEET 4 OF 4	
3	DRAWING NUMBER	S02-02-06-37 <u>4</u>	8
00	CAD PRODUCT - DO NOT AMEND MANUALLY		