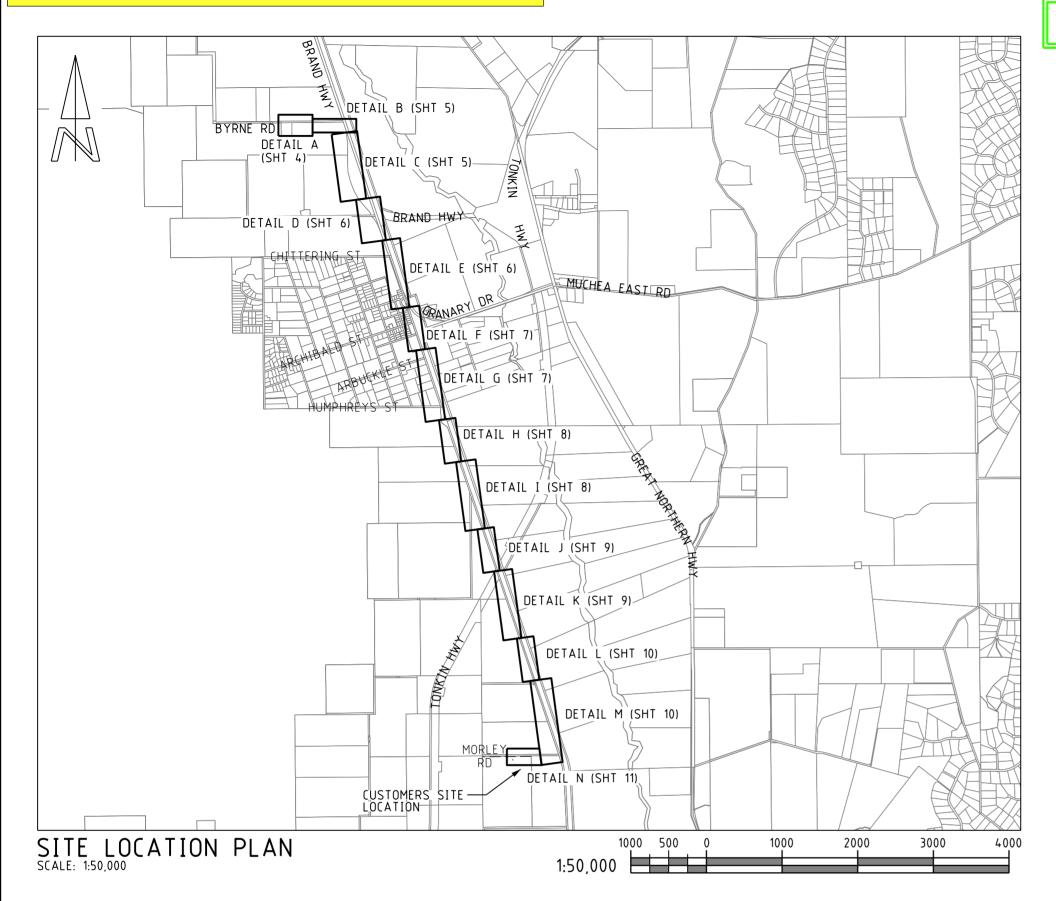
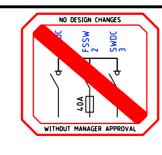
#### SAFETY - MAKE IT YOUR PRIMARY VALUE



	DRAWING INDEX					
SHEET	SHEET NO. DESCRIPTION					
1		COVER SHEET & SITE LOCATION PLAN				
2		SUBSTATION DETAILS				
3		MUCHEA ZONE SUBSTATION CABLE INSTALLATION DETAILS				
4		CABLE INSTALLATION PLAN 1				
5		CABLE INSTALLATION PLAN 2				
6		CABLE INSTALLATION PLAN 3				
7		CABLE INSTALLATION PLAN 4				
8		CABLE INSTALLATION PLAN 5				
9		CABLE INSTALLATION PLAN 6				
10		CABLE INSTALLATION PLAN 7				
11		CABLE INSTALLATION PLAN 8				
12		ENVIRONMENTAL DRAWING - IDENTIFIED RISKS				
13		ENVIRONMENTAL DRAWING - MITIGATION REQUIREMENTS				
14		VEGETATION CLEARING REQUIREMENTS				

#### ISSUED FOR CONSTRUCTION



# CRITICAL RISK MANAGEMEN

[0]

#### WESTERN POWER SCOPE OF WORK

- INSTALL WESTERN POWER'S OUTDOOR HV 3+0 SWITCHGEAR, INCLUDING METERING UNIT, TO DSPM-3-23 AS NOTED ON THE DRAWING. INSTALL OIL CONTAINMENT PANEL AND POST WITH RAILWAY BALLAST/FLAME TRAP IN ACCORDANCE WITH WASIR CLAUSE 14.6.5, DRAWING DSPM-4-06. CU: HU5\_A400x1, HU84\_22x1, HU76x1, HU65\_400x2, HM1x1
- INSTALL 400HV CABLE FROM NEW WESTERN POWER SWITCH GEAR TO HV METERING UNIT
- INSTALL 400HV CABLE FROM METERING UNIT TO CUSTOMER SWITCH CU: CN53x15m, CN73\_240x2
- TERMINATE 400HY CABLE AT HV METERING AND NEW WESTERN POWER SWITCH GEAR.
- INSTALL 400HV CABLE FROM MUCHEA ZONE SUBSTATION TO NEW RMU AT CUSTOMERS SITE ON MORLEY RD. CU: CN53x10,500m, CN54x34, CN73x84
- INSTALL END OF DRUM 400HV CABLE STRAIGHT JOINTS.
- TERMINATE 400HV CABLE AT MUCHEA ZONE SUBSTATION INDOOR SWITCHGEAR MUC 540. REFER TO SHEET 3 FOR DETAILS.
- INSTALL 400HV CABLE FROM NEW RMU ON CUSTOMERS SITE TO POLE S331260. CU: CN53x700m, CN54x10, CN73x6
- INSTALL END OF DRUM 400HV CABLE STRAIGHT JOINTS. LOCATIONS SHOWN ARE INDICITIVE ONLY. EXACT LOCATION TO BE DETERMINED
- TERMINATE 400HV CABLE TO POLE S331260. DCSH: H08-3
- ENVIRONMENTAL FILTER CHECKED

THE FOLLOWING ENVIRONMENTAL ISSUES HAVE BEEN IDENTIFIED FOR THIS PROJECT. ALL RELEVANT PERMITS & PROCEDURES MUST BE OBTAINED & ADHERED TO:

- 1. DECLARED RARE FLORA
- 3. THREATENED ECOLOGICAL COMMUNITIES
- 4. ABORIGINAL HERITAGE AREAS
- 5. MUNICIPAL INVENTORY 6. ACID SULFATE SOILS
- 7. CONTAMINATED SITES WP REGISTER
- 8. CONSERVATION WETLAND 9. POTENTIALLY WET AREAS
- 10. NATIVE VEGETATION REMAINING
- 11. NATIVE VEGETATION REGS ESAS CLEARING 12. DBCA LEGISLATED LANDS & WATERS
- 13. CONSERVATION ESTATE
- 14. SYSTEM RESERVE
- 15. ESA BOUNDARY 16. DECLARED RARE AND PRIORITY FLORA - WA HERBARIUM

PLEASE REFER TO THE ENVIRONMENTAL DRAWING FOR MORE INFORMATION.

#### CUSTOMER SCOPE OF WORK

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE WESTERN AUSTRALIAN SERVICE AND INSTALLATION REQUIREMENTS.
- SUBSTATION TO BE DESIGNED TO MINIMUM DIMENSIONS SHOWN ON THE DRAWING AND IN-CONJUNCTION WITH WESTERN POWER'S DRAWING DSPM-03-23.
- CUSTOMER TO SUPPLY AND INSTALL DUCTING AS NOTED ON THE DESIGN DRAWING.
- SUBSTATION SITE WILL BE PREPARED AS PER THE WESTERN AUSTRALIAN SERVICE AND INSTALLATION REQUIREMENTS CLAUSE 14.4.6. THIS INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

1. PEGGING. COMPACTION AND LEVELLING. A COMPACTION CERTIFICATE IS REQUIRED.

2. LOCATED 500mm ABOVE 100 YEAR FLOOD LEVEL AND NOT IN A PRECARIOUS POSITION.

3. CLEAR OF ALL SERVICES INCLUDING ENCROACHMENT.

4. CLEAN SAND FILL TO A DEPTH OF 1.5m. EXCAVATIONS GREATER THAN 1.5m TO BE IN ACCORDANCE WITH THE EXCAVATION CODE OF PRACTICE.

- CUSTOMER TO ENSURE EXISTING METALLIC FENCES WITHIN 1.25 METRES OF SUBSTATION SITE IS RELOCATED PRIOR TO THE COMMENCEMENT OF THE WORK.
- IF THE CUSTOMER PROPOSES TO INSTALL SCREENING, APPROVAL SHALL BE OBTAINED FROM WESTERN POWER PRIOR TO ITS INSTALLATION. THE SCREENING SHALL BE INSTALLED ONLY AFTER WESTERN POWER HAS COMPLETED ALL OF THE WORK ON THE SUBSTATION SITE. REFER TO THE WESTERN AUSTRALIAN SERVICE AND INSTALLATION REQUIREMENTS CLAUSES 14.4.10.3.2, 14.4.11 AND 14.5.4 FOR DETAILS.
- NO BUILDINGS ALLOWED WITHIN 4m OF THE SUBSTATION UNLESS 2 HOUR FIRE RATED. SEE WESTERN POWER DRAWING DSM-5-01 FOR DETAILS.
- CUSTOMER MUST COMPLY WITH POWER QUALITY LIMITS AS PER AS/NZS TS IEC 61000.3.5 AND WESTERN POWER TECHNICAL REQUIREMENTS.
- WESTERN POWER MUST RECEIVE A HV SUBMISSION FROM THE CUSTOMER AND APPROVE THE NETWORK CONNECTION PRIOR TO INSTALLATION OF THE CUSTOMER'S EQUIPMENT, AS PER WAER CLAUSE 7 AND THE WESTERN AUSTRALIAN SERVICE AND INSTALLATION
- THE CUSTOMER'S EQUIPMENT MUST BE RATED FOR 22,000 VOLTS, WHICH IS THE HV DISTRIBUTION VOLTAGE IN THIS AREA. THE CUSTOMER'S INSTALLATION MUST BE DESIGNED TO WITHSTAND WITHOUT DAMAGE THE MAXIMUM CURRENTS WHICH MAY FLOW THROUGH IT UNDER FAULT CONDITIONS AS PER THE WESTERN AUSTRALIAN SERVICE AND INSTALLATION REQUIREMENTS CLAUSE
- THE CUSTOMER MUST MEET THE REQUIREMENTS OF THE WESTERN AUSTRALIAN SERVICE AND INSTALLATION REQUIREMENTS CLAUSE 11.6.4.6 ADDITIONAL REQUIREMENTS FOR HIGH VOLTAGE
- CUSTOMER ELECTRICAL CONTRACTOR IS TO SUPPLY SUITABLE TERMINATION MATERIALS\_AND MAKE CONNECTION TO THE
- THIS DESIGN IS INTENDED TO BE CONSTRUCTED DE-ENERGISED. YOUR ELECTRICITY SUPPLY MAY NOT BE AVAILABLE DURING
- CUSTOMER ELECTRICAL CONTRACTOR TO ENSURE CUSTOMER'S SPD GRADES WITH WESTERN POWER'S UPSTREAM PROTECTION AS NOTED ON THE SIMPLIFIED LINE DIAGRAM.
- CUSTOMER MAIN SWITCH TO HAVE INTEGRAL EARTH SWITCH THAT IS USED UNDER A CUSTOMER AND WESTERN POWER OPERATING
- CUSTOMER TO ARRANGE FOR AN 'EASEMENT IN GROSS' UNDER THE ENERGY OPERATORS POWERS ACT 1979. CUSTOMER TO SUBMIT THE DEPOSITED PLAN TO WESTERN POWER PRIOR TO THE COMMENCEMENT OF WORKS.

CUSTOMER TO CONTACT WESTERN POWER PROPERTY SPECIALIST AT conveyancing@westernpower.com.au TO ARRANGE THE PREPARATION AND REGISTRATION.

EASEMENT TO BE REGISTERED PRIOR TO ENERGISATION.

- CUSTOMER TO BE AWARE THAT HV OUTDOOR GROUND MOUNTED SWITCHGEAR IS LIMITED TO A MAXIMUM INSTALLED CAPACITY OF 4MVA AS PER WESTERN AUSTRALIAN SERVICE AND INSTALLATION REQUIREMENTS CLAUSE 14.3.4.2.
- CUSTOMER TO UNDERTAKE EARTH POTENTAIL RISE (EPR) STUDY IN ACCORDANCE WITH WESTERN POWER'S TECHNICAL REQUIREMENTS AND AS4853.
- CUSTOMER TO CONTACT WESTERN POWER PROPERTY SPECIALIST AT conveyancing@westernpower.com.au TO ARRANGE THE PREPARATION AND REGISTRATION OF THE REQUIRED 129BA RESTRICTIVE

RESTRICTIVE COVENANT TO BE REGISTERED PRIOR TO

#### CONSULTANT CONTACT DETAILS COMPANY NAME: ELECTRICAL DESIGN & CONSTRUCTION CONTACT: AARON BOYALL

CUSTOMER CONTACT DETAILS

COMPANY NAME: THOMPSON & REDWOOD (2001) PTY LTD CONTACT:

@ A2

**DESIGNER:** VINKO MAJIO DESIGN TEAM: CCS DESIGN TEAM B

13 10 87

Long. - 115°59′23′′ E

GEO REF: Lat. - 31°37′59′′′

SCALE: 1:2000

EMAIL:

DATE: 07/24

TEL:

westernpower DRAWING NUMBER

MP207462

SHEET 01 OF 14

ORIGINAL SIZE - A2

#### TO BE CONSTRUCTED DE-ENERGISED UNLESS RISK ASSESSED

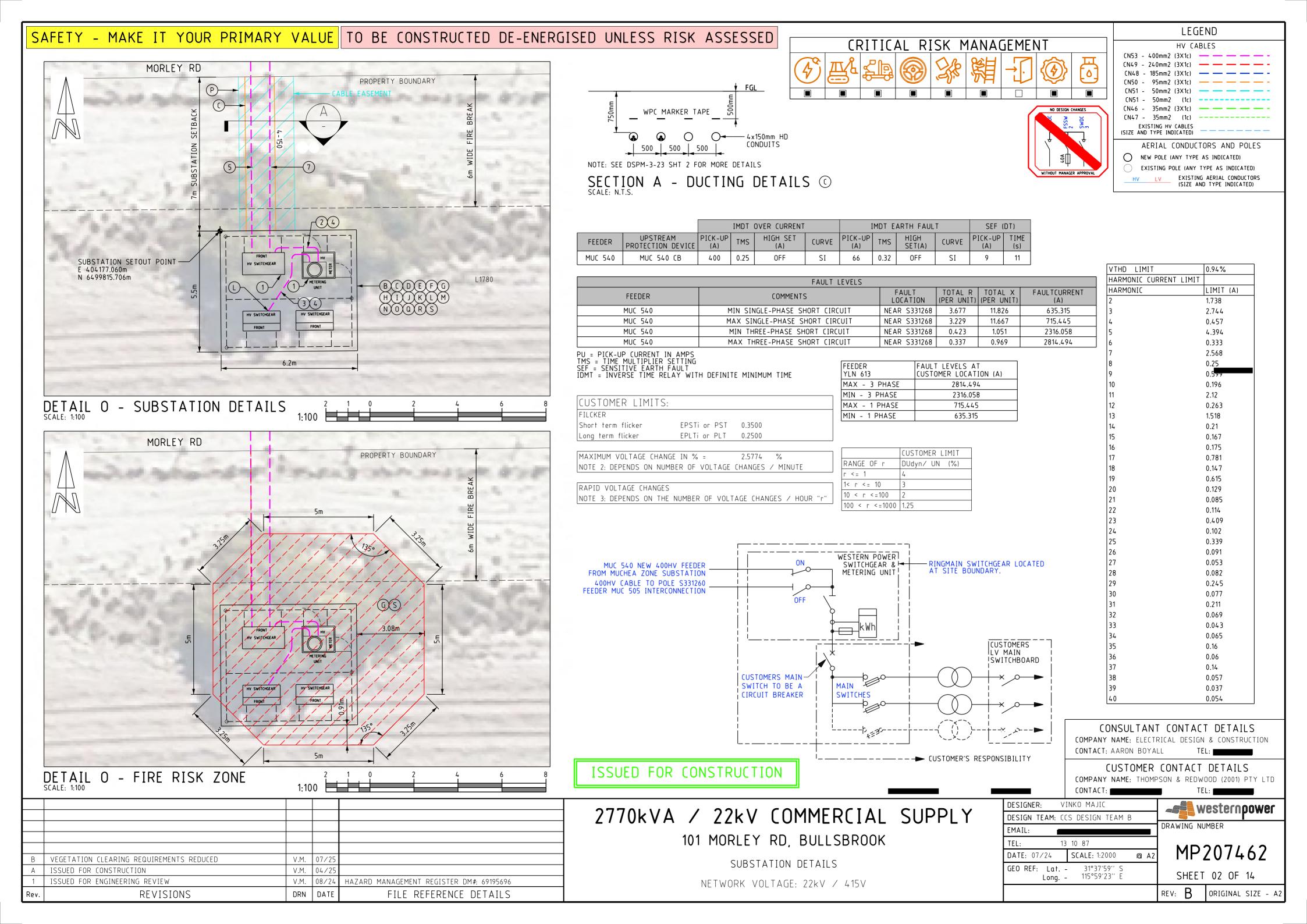
В	VEGETATION CLEARING REQUIREMENTS REDUCED	V.M.	07/25			
Α	ISSUED FOR CONSTRUCTION	V.M.	04/25			
1	ISSUED FOR ENGINEERING REVIEW	V.M.	08/24	HAZARD MANAGEMENT REGISTER DM#: 69195696		
Rev.	REVISIONS	DRN	DATE	FILE REFERENCE DETAILS		

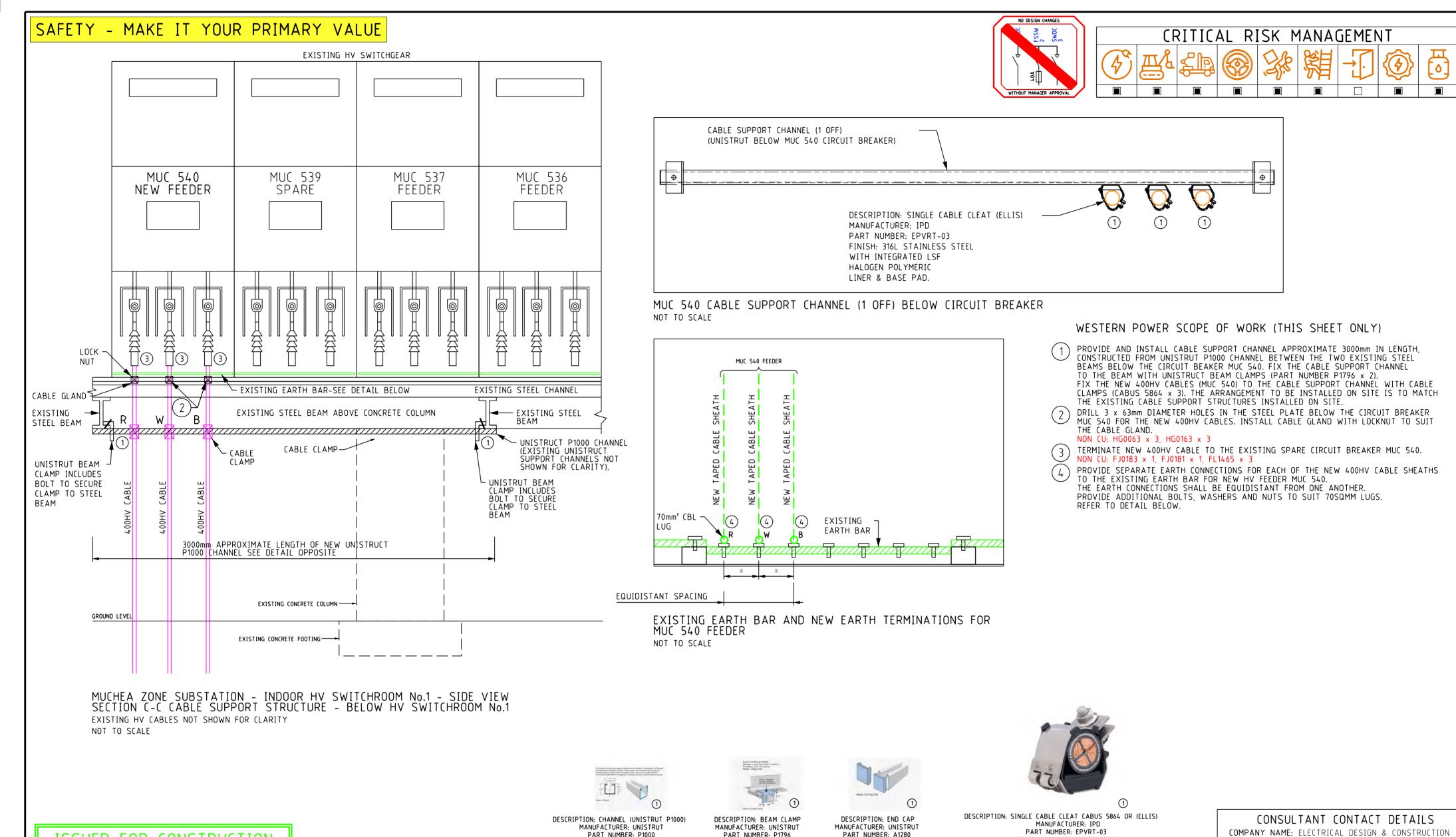
### 2770kVA / 22kV COMMERCIAL SUPPLY

101 MORLEY RD, BULLSBROOK

COVER SHEET & SITE LOCATION PLAN

NETWORK VOLTAGE: 22kV / 415V





PART NUMBER: P1796

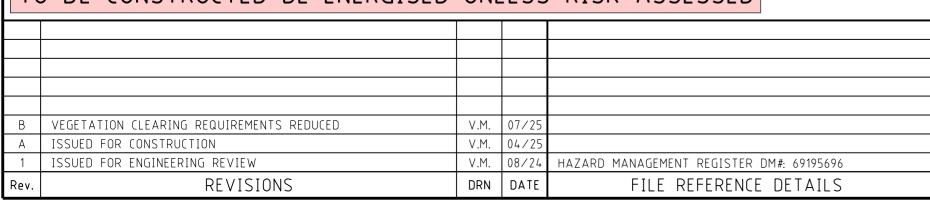
FINISH: STAINLESS STEEL

PART NUMBER: P1000

FINISH: 316 STAILESS STEEL

#### ISSUED FOR CONSTRUCTION

#### TO BE CONSTRUCTED DE-ENERGISED UNLESS RISK ASSESSED



## 2770kVA / 22kV COMMERCIAL SUPPLY

FINISH: 316L STAINLESS STEEL

WITH INTEGRATED LSF HALOGEN POLYMERIC LINER & BASE PAD.

NETWORK VOLTAGE: 22kV / 415V

101 MORLEY RD, BULLSBROOK

DESIGNER: VINKO MAJIC DESIGN TEAM: CCS DESIGN TEAM B EMAIL: TEL: 13 10 87 DATE: 07/24 SCALE: 1:2000 @ A2 GEO REF: Lat. - 31°37′59′′ S Long. - 115°59′23′′ E

CONTACT:

CONTACT: AARON BOYALL

westernpower DRAWING NUMBER

CUSTOMER CONTACT DETAILS

COMPANY NAME: THOMPSON & REDWOOD (2001) PTY LTD

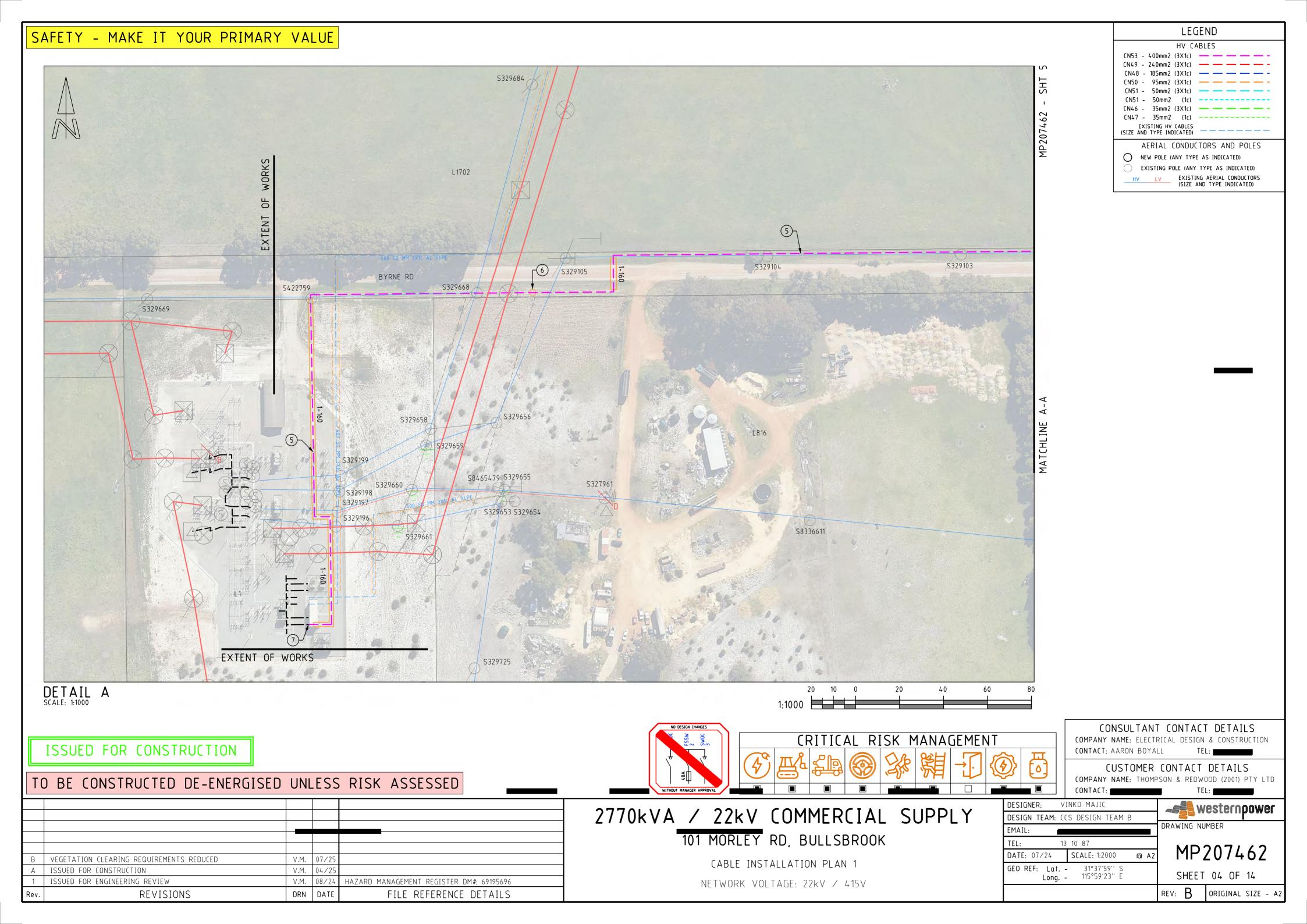
MP207462

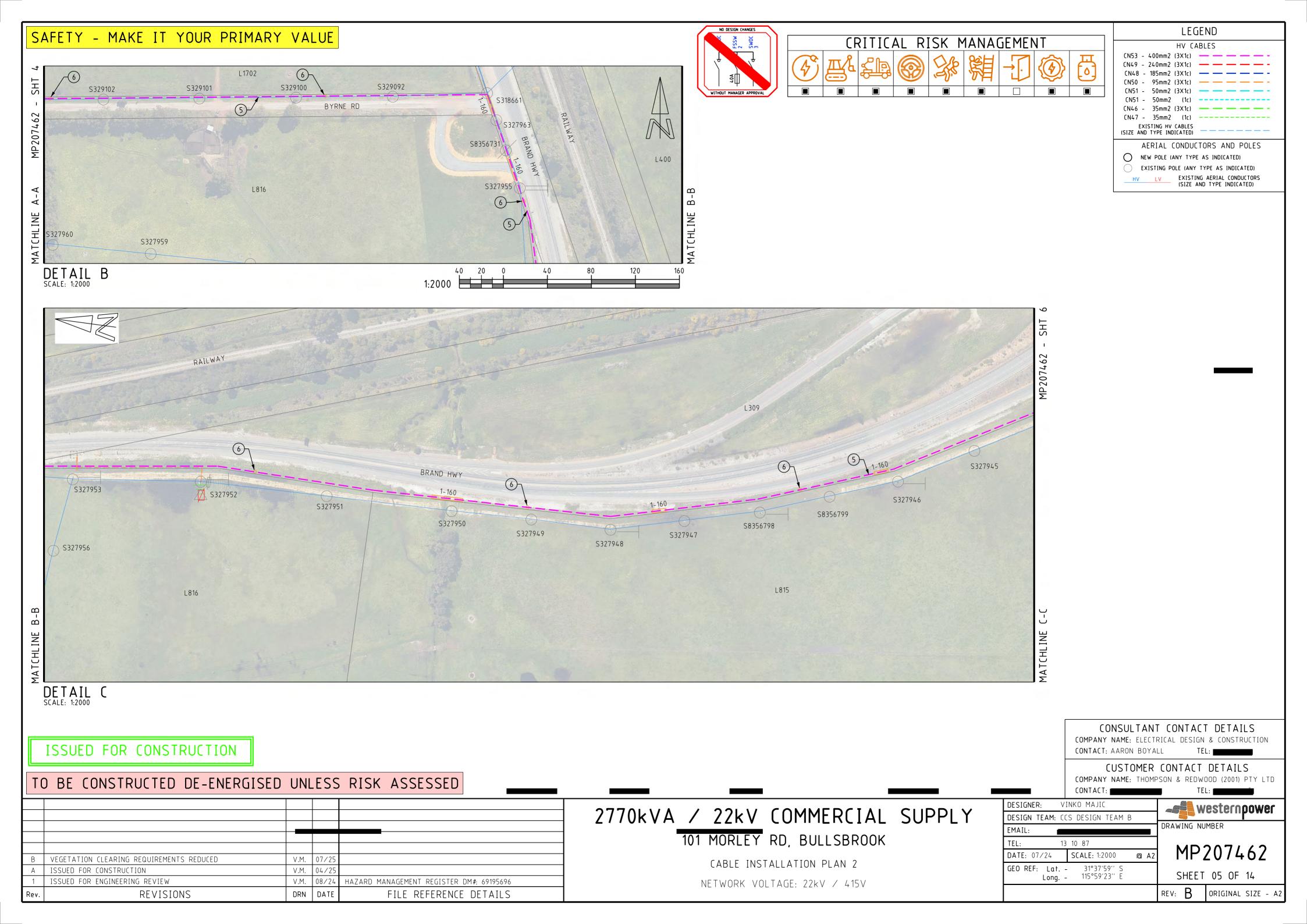
SHEET 03 OF 14

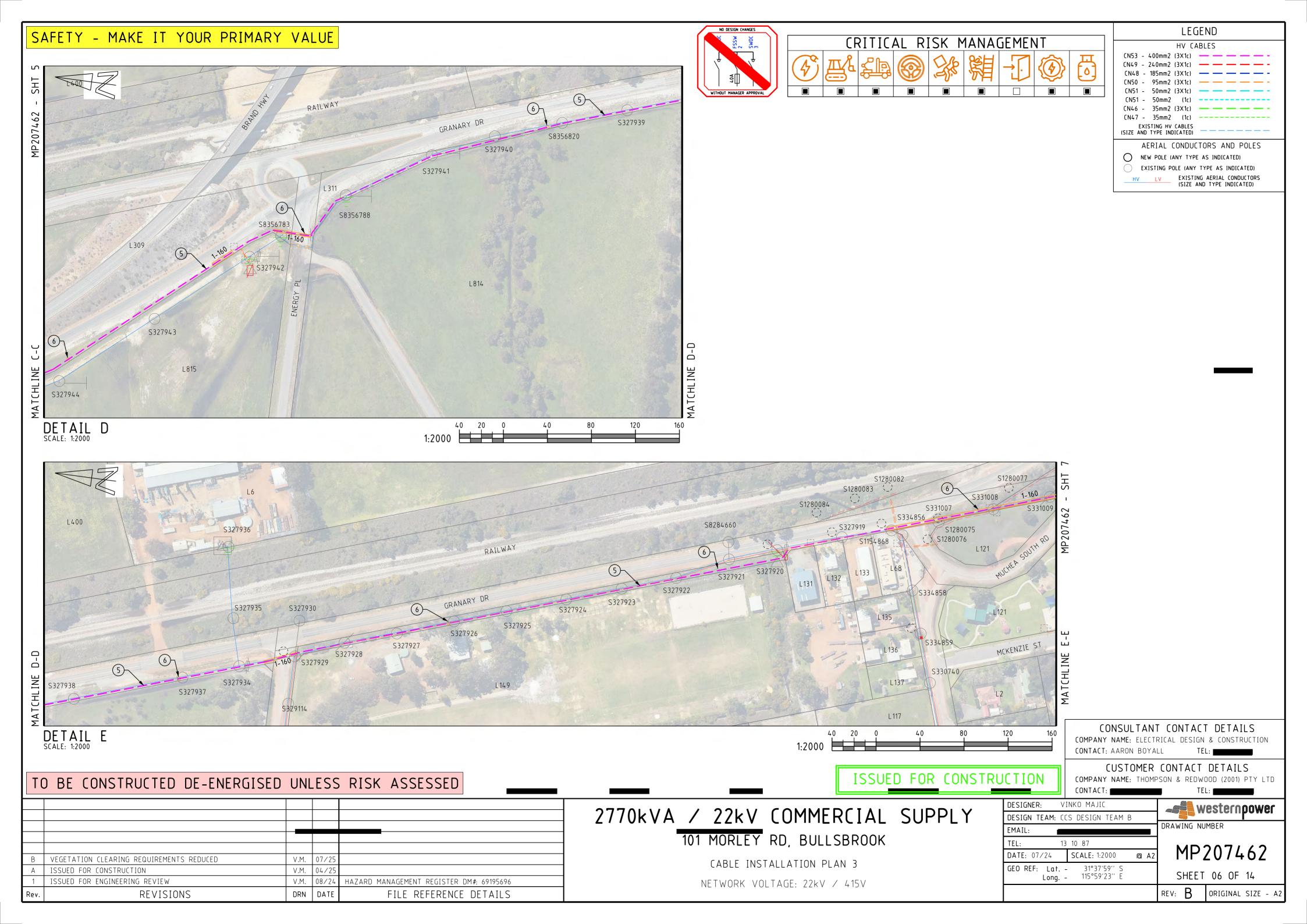
REV: B ORIGINAL SIZE - A2

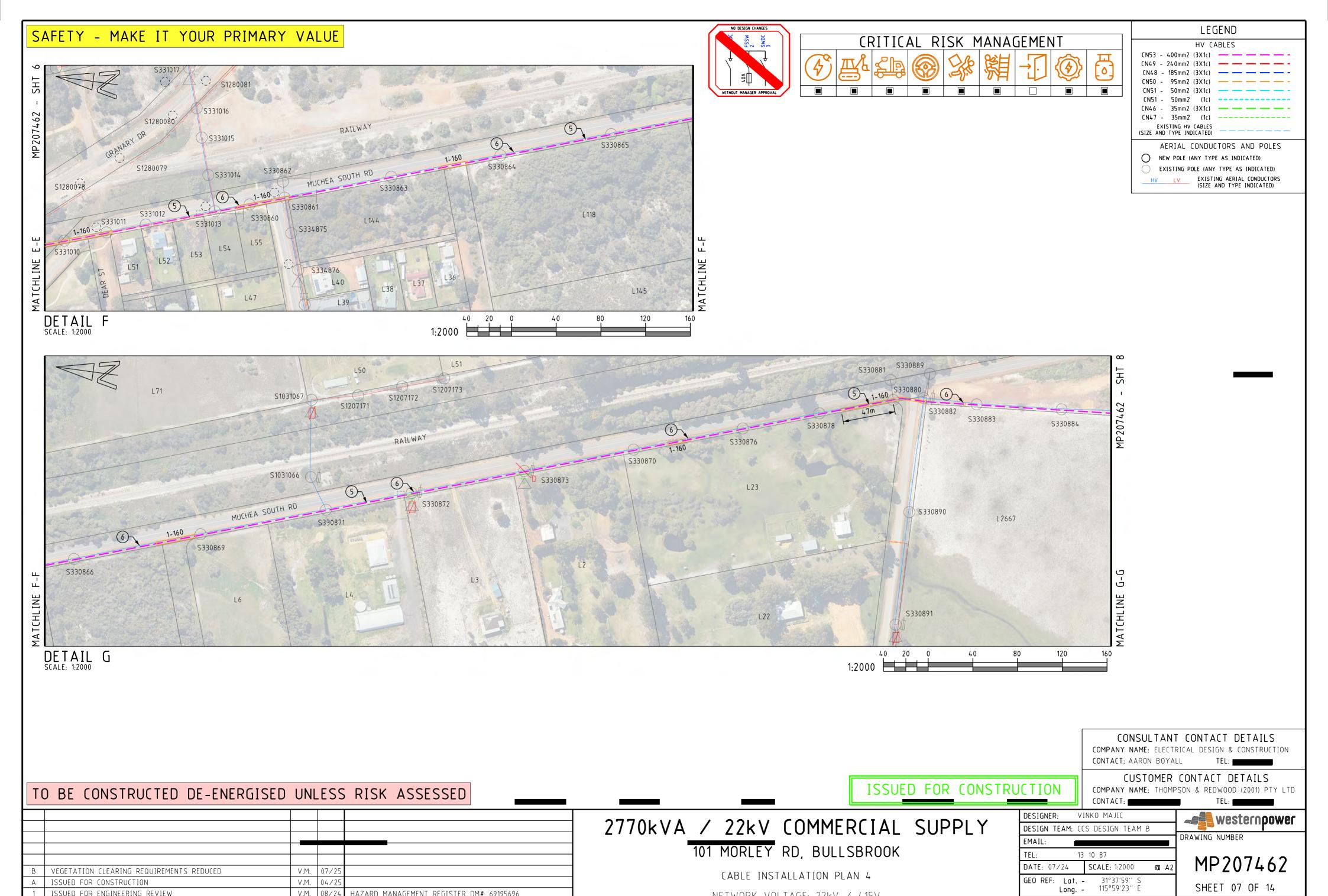
PART NUMBER: A1280

MUCHEA ZONE SUBSTATION CABLE INSTALLATION DETAILS









NETWORK VOLTAGE: 22kV / 415V

REV: B ORIGINAL SIZE - A2

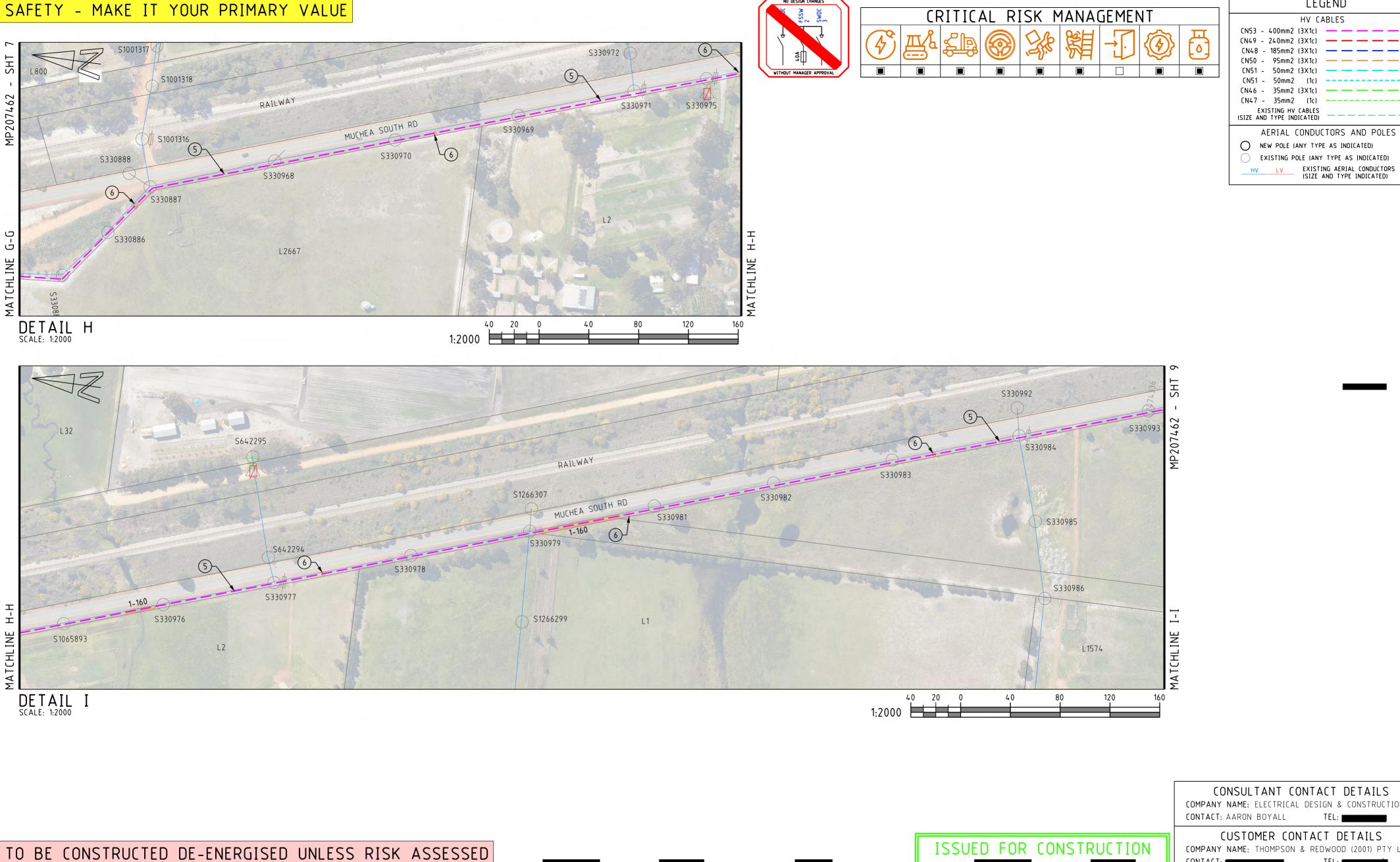
V.M. 08/24 HAZARD MANAGEMENT REGISTER DM#: 69195696

DRN DATE

FILE REFERENCE DETAILS

ISSUED FOR ENGINEERING REVIEW

REVISIONS



ISSUED FOR CONSTRUCTION

COMPANY NAME: ELECTRICAL DESIGN & CONSTRUCTION CONTACT: AARON BOYALL

CUSTOMER CONTACT DETAILS

COMPANY NAME: THOMPSON & REDWOOD (2001) PTY LTD

VEGETATION CLEARING REQUIREMENTS REDUCED V.M. 07/25 ISSUED FOR CONSTRUCTION V.M. 04/25 ISSUED FOR ENGINEERING REVIEW V.M. 08/24 HAZARD MANAGEMENT REGISTER DM#: 69195696 FILE REFERENCE DETAILS REVISIONS

#### 2770kVA / 22kV COMMERCIAL SUPPLY 101 MORLEY RD, BULLSBROOK

CABLE INSTALLATION PLAN 5

NETWORK VOLTAGE: 22kV / 415V

DESIGNER: VI	INKO MAJIC	
DESIGN TEAM: CO	S DESIGN TEAM B	
EMAIL:		DR/
TEL: 13	10 87	
DATE: 07/24	SCALE: 1:2000 @ A2	
GEO REF: Lat Long		
		RF\

	westernpower
DRAWING	NUMBER
NA E	12071/2

LEGEND

EXISTING AERIAL CONDUCTORS (SIZE AND TYPE INDICATED)

HV CABLES

MP207462 SHEET 08 OF 14

REV: B ORIGINAL SIZE - A2



ISSUED FOR CONSTRUCTION

COMPANY NAME: ELECTRICAL DESIGN & CONSTRUCTION

CUSTOMER CONTACT DETAILS COMPANY NAME: THOMPSON & REDWOOD (2001) PTY LTD

**westernpower** 

VEGETATION CLEARING REQUIREMENTS REDUCED V.M. 07/25 ISSUED FOR CONSTRUCTION V.M. 04/25 ISSUED FOR ENGINEERING REVIEW V.M. 08/24 HAZARD MANAGEMENT REGISTER DM#: 69195696 FILE REFERENCE DETAILS REVISIONS DRN DATE

TO BE CONSTRUCTED DE-ENERGISED UNLESS RISK ASSESSED

#### 2770kVA / 22kV COMMERCIAL SUPPLY 101 MORLEY RD, BULLSBROOK

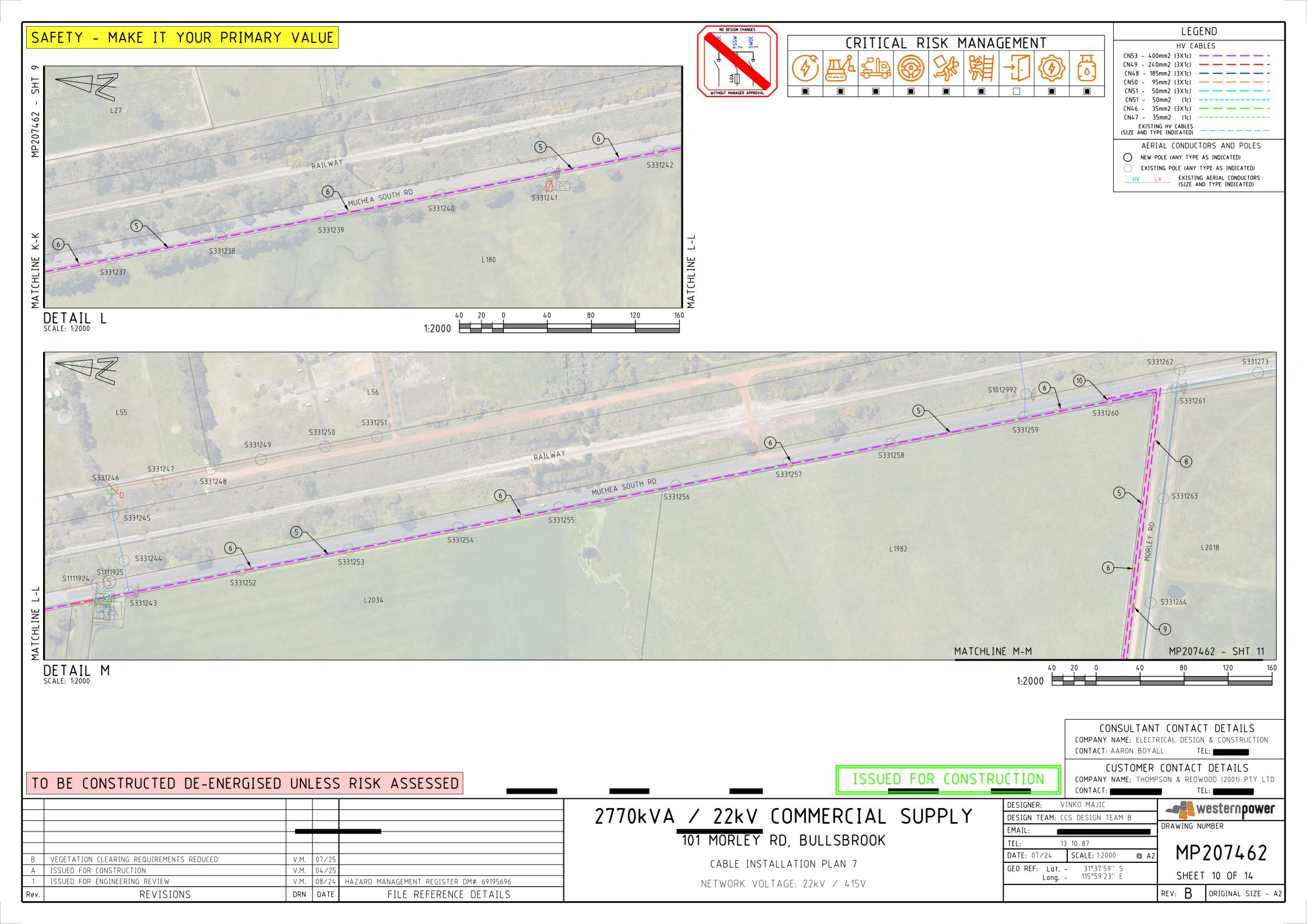
CABLE INSTALLATION PLAN 6 NETWORK VOLTAGE: 22kV / 415V

DESIGNER: V	INKO MAJIC			
DESIGN TEAM: (	S DESIGN TEAM B			
EMAIL:				DRA
TEL: 13	10 87			
DATE: 07/24	SCALE: 1:2000	a	Α2	
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SHEET 09 OF 14

REV: B ORIGINAL SIZE - A2

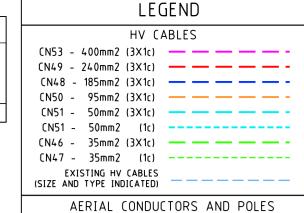


#### SAFETY - MAKE IT YOUR PRIMARY VALUE L1982 5 MORLEY RD S331266 S331265 S331268 S331269 REFER SHEET 2 WORKS FOR DETAILS L2018 #101 MORLEY ROAD 2770kVA / 3853.64A L2018 HV SUPPLY L1780



# CRITICAL RISK MANAGEMENT

ISSUED FOR CONSTRUCTION



NEW POLE (ANY TYPE AS INDICATED)

EXISTING POLE (ANY TYPE AS INDICATED) EXISTING AERIAL CONDUCTORS (SIZE AND TYPE INDICATED)

CONSULTANT CONTACT DETAILS COMPANY NAME: ELECTRICAL DESIGN & CONSTRUCTION CONTACT: AARON BOYALL

CUSTOMER CONTACT DETAILS

COMPANY NAME: THOMPSON & REDWOOD (2001) PTY LTD

DESIGNER: VINKO MAJIC westernpower DESIGN TEAM: CCS DESIGN TEAM B DRAWING NUMBER EMAIL: 13 10 87 DATE: 07/24 SCALE: 1:2000

GEO REF: Lat. - 31°37′59″ S Long. - 115°59′23″ E

MP207462

SHEET 11 OF 14

REV: B ORIGINAL SIZE - A2

2770kVA / 22kV COMMERCIAL SUPPLY

CABLE INSTALLATION PLAN 8

NETWORK VOLTAGE: 22kV / 415V

# DETAIL N 1:2000

TO BE CONSTRUCTED DE-ENERGISED UNLESS RISK ASSESSED

V.M. 07/25

V.M. 04/25

DRN DATE

V.M. 08/24 HAZARD MANAGEMENT REGISTER DM#: 69195696

FILE REFERENCE DETAILS

VEGETATION CLEARING REQUIREMENTS REDUCED

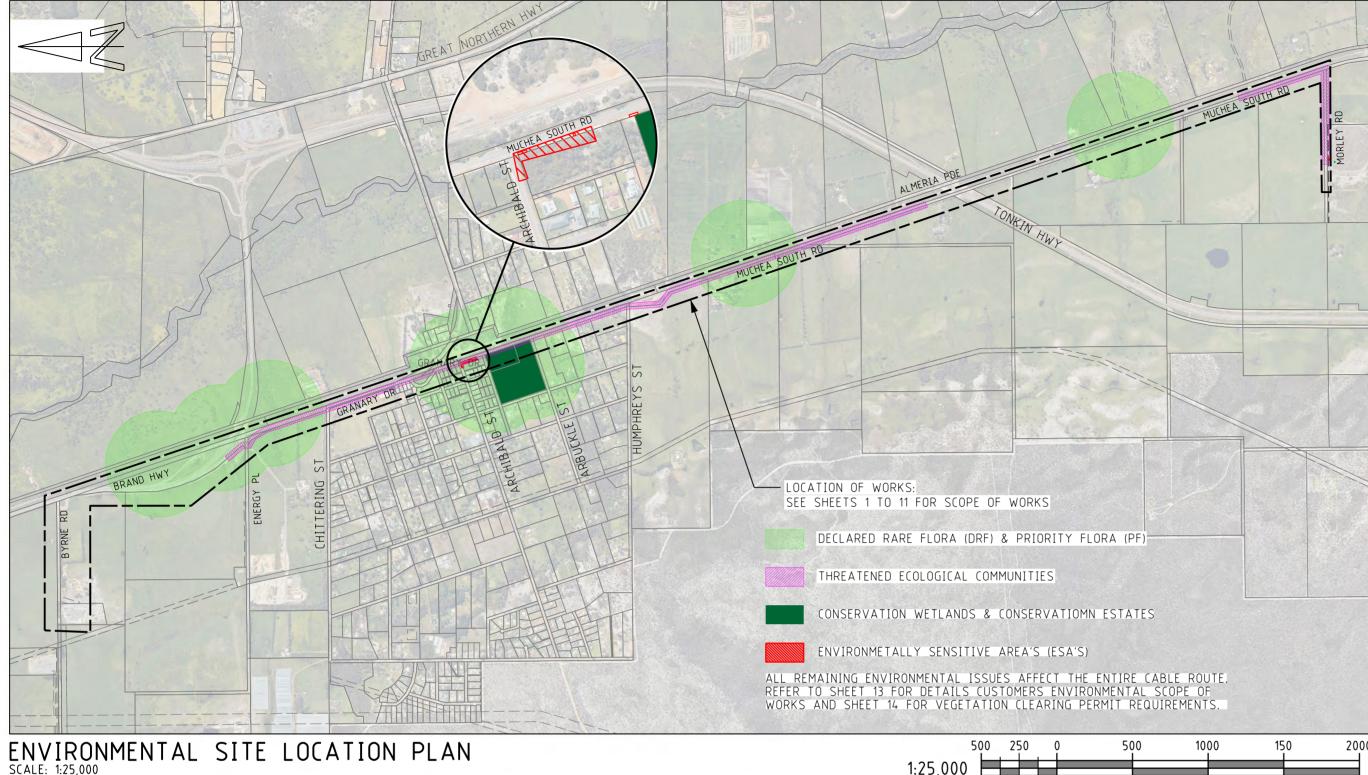
REVISIONS

ISSUED FOR CONSTRUCTION

ISSUED FOR ENGINEERING REVIEW

101 MORLEY RD, BULLSBROOK

#### SAFETY - MAKE IT YOUR PRIMARY VALUE



#### ENVIRONMETALLY SENSITIVE AREA'S (ESA'S)

ESAS ARE AREAS IN WHICH SPECIFIC MANAGEMENT PROCEDURES HAVE BEEN DEVELOPED TO PROTECT ESPECIALLY VALUABLE ENVIRONMENTAL ASSETS.

WESTERN POWER IS LEGALLY OBLIGED TO PROTECT THESE AREAS.

ANY ACCESS OR WORK IN AN ESA REQUIRES SITE-SPECIFIC PROCEDURES TO BE OBTAINED AND FOLLOWED.

AS THEY COVER AREAS AROUND EXISTING POWER LINES THE ACTUAL PLACES TO BE PROTECTED MAY GO WELL BEYOND THE ARTIFICIAL ESA BOUNDARY.

IF ACCESSING NEAR OR WITHIN THE ESA PLEASE ENSURE THAT THE RELEVANT PROCEDURE IS FOLLOWED.

IF YOU NEED A COPY PLEASE CONTACT

environment@westernpower.com.au

THIS MAY REQUIRE CONTACTING RELEVANT STAKEHOLDERS OR LANDHOLDERS WITHIN THE REQUIRED TIMEFRAME.

#### CONSERVATION WETLANDS AND NOT ASSESSED WETLANDS

COMPLY WITH ANY NATIVE VEGETATION CLEARING PERMIT IF SUPPLIED. NO DEWATERING IS PERMITTED IN THESE AREAS. IF NATIVE VEGETATION IS TO BE IMPACTED OR DEWATERING IS REQUIRED CONTACT

environment@westernpower.com.au

FOR ADVICE.

#### CONSERVATION ESTATE AND DEC TENURE

NO IMPACTS WITHIN THESE AREAS ARE ALLOWED. IF UNAVOIDABLE PLEASE CONTACT THE LOCAL DPaW OFFICE OR

environment@westernpower.com.au

FOR ADVICE AS IT CAN TAKE OVER 2 YEARS TO GET AUTHORITY TO DAMAGE THESE AREAS.

ACCESS TO CONSERVATION ESTATE REQUIRES A NOTIFICATION BE SENT TO DEPARTMENT OF PARKS AND

COMPLETE A NOTIFICATION FORM EDM#40281731 AND SEND TO THE RELEVANT DISTRICT OFFICE. ACCESS UNDER DRY SOIL CONDITIONS AND CLEAN VEHICLES/MACHINERY ONLY.

SYSTEM 6 RESERVE AND SYSTEM ALL RESERVES 1-5 AND 7-12

#### INTERPRETATION:

THESE ARE CONSERVATION CATEGORIES OF NATIVE VEGETATION AND ASSOCIATIONS. COMPLY WITH THE CLEARING PERMIT IF ONE IS SUPPLIED.

IF ANY DAMAGE TO NATIVE VEGETATION IS REQUIRED IN THESE AREAS THAT IS NOT COVERED BY A CLEARING PERMIT PLEASE CONTACT

environment@westernpower.com.au

FOR ADVICE.

NO NATIVE VEGETATION MAY BE DISTURBED WITHOUT A PERMIT OR OUTSIDE OF THE PERMIT AREA. IF IN DOUBT, PLEASE CONTACT THE RELEVANT MANAGER WHO WILL CONTACT WESTERN POWER ENVIRONMENTAL TEAM.

PLEASE NOTE: HEAVY PENALTIES MAY APPLY TO INDIVIDUALS AND BUSINES<mark>SES FOR D</mark>AMAGE TO NATIVE VEG**ETATION** WITHOUT A PERMIT

#### ENVIRONMENT ISSUES AND REQUIREMENTS

THIS PAGE INDICATES ENVIRONMENT ISSUES AND REQUIREMENTS ASSOCIATED WITH THE SCOPE OF THE WORK AND ANY ISSUES IN THE VICINITY SO THE CONSTRUCTION MANAGER CAN AVOID DAMAGE TO THE ENVIRONMENT. PARTICULARLY THE TYPE THAT MAY CAUSE PROSECUTION. PROJECT-SPECIFIC INFORMATION IS REFERENCED ON THIS PAGE AND MUST BE FOLLOWED.

DECLARED RARE FLORA (DRF), PRIORITY FLORA (PF) AND THREATENED ECOLOGICAL COMMUNITIES (TEC'S).

NATIVE VEGETATION (FROM HERBS TO SHRUBS TO TREES) IN THE SURROUNDING AREA HAS RARE PLANTS OR COMMUNITIES IN IT. PLEASE DO NOT ACCESS AREAS OF NATIVE VEGETATION (NOT COVERED BY ANY PERMITS FOR THIS WORK). DO NOT LAY DOWN MATERIALS OR DRIVE ON ANY NATIVE VEGETATION. SHOULD YOU REQUIRE THIS TO OCCUR, PLEASE CONTACT

#### environment@westernpower.com.au

TO GAIN A PERMIT OR HAVE AN EXISTING ONE EXTENDED OR ALTERED.
TO AVOID INADVERTENT DAMAGE TO NATIVE VEGETATION CONSIDER FLAGGING OFF NO-GO AREAS.

#### ABORIGINAL HERITAGE

NOTE THAT THE BOUNDARIES OF SITES HAVE A DELIBERATE BROADENING TO DISGUISE THE EXACT LOCATION. IF THE SCOPE HAS CHANGED AND YOU NEED TO WORK WITHIN AN ABORIGINAL HERITAGE SITE AND DISTURB NATURAL EARTH, PLEASE CONTACT

environment@westernpower.com.au

FOR INVESTIGATION.

#### HERITAGE (EUROPEAN)

EUROPEAN HERITAGE IS PLACED ON SPECIFIC LOCATIONS AND/OR BUILDINGS. IF THE SCOPE OF WORK ALTERS SIGNIFICANTLY, CONTACT THE DESIGNER OR

environment@westernpower.com.au

FOR FURTHER ADVICE.

#### ACID SULPHATE SOILS (ASS)

EXPOSURE TO AIR CAUSES ASS TO CREATE SULPHURIC ACID. IN AREAS WHERE THIS IS A RISK YOU NEED TO:

BACKFILL EXCAVATIONS WITHIN 18 HOURS OF OPENING.

IF DEWATERING OR EXCAVATING 100M3 OR MORE IN TOTAL FOR THE PROJECT AN ACID SULPHATE SOIL MANAGEMENT PLAN MAY BE DEVELOPED

REFER TO

environment@westernpower.com.au

#### CONTAMINATED SITES

THE LAND OR GROUNDWATER IN THESE AREAS HAS LEVELS OF POLLUTION THAT MAY AFFECT WORKER'S HEALTH AND SAFETY IF EXPOSURE OCCURS. DO NOT DISTURB THE SOIL OR DEWATER IN THESE AREAS. IF REQUIRED, CONTACT

environment@westernpower.com.au

FOR ADVICE.

#### POTENTIALLY WET AREAS

THESE AREAS MAY BE INUNDATED AT VARIOUS TIMES OF THE YEAR. PLAN WORK CAREFULLY TO AVOID ANY POTENTIAL ACCESS ISSUES.

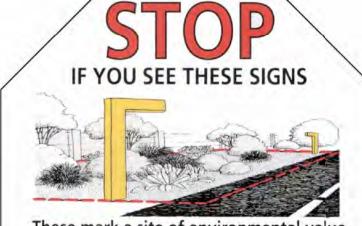
#### ISSUED FOR CONSTRUCTION

#### CONSULTANT CONTACT DETAILS

COMPANY NAME: ELECTRICAL DESIGN & CONSTRUCTION CONTACT: AARON BOYALL

#### CUSTOMER CONTACT DETAILS

COMPANY NAME: THOMPSON & REDWOOD (2001) PTY LTD



These mark a site of environmental value DO NOT disturb the flora between pairs of these markers

If in doubt - contact your supervisor or the local CALM office DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT

#### 2770kVA / 22kV COMMERCIAL SUPPLY 101 MORLEY RD, BULLSBROOK

CABLE INSTALLATION PLAN 8

ENVIRONMENTAL DRAWING - IDENTIFIED RISKS

VINKO MAJIC **DESIGNER:** DESIGN TEAM: CCS DESIGN TEAM B EMAIL: TEL: 13 10 87 SCALE: 1:2000 DATE: 07/24 a A2 GEO REF: Lat. - 31°37′59′′ Long. - 115°59′23′′ E

westernpower

DRAWING NUMBER

MP207462

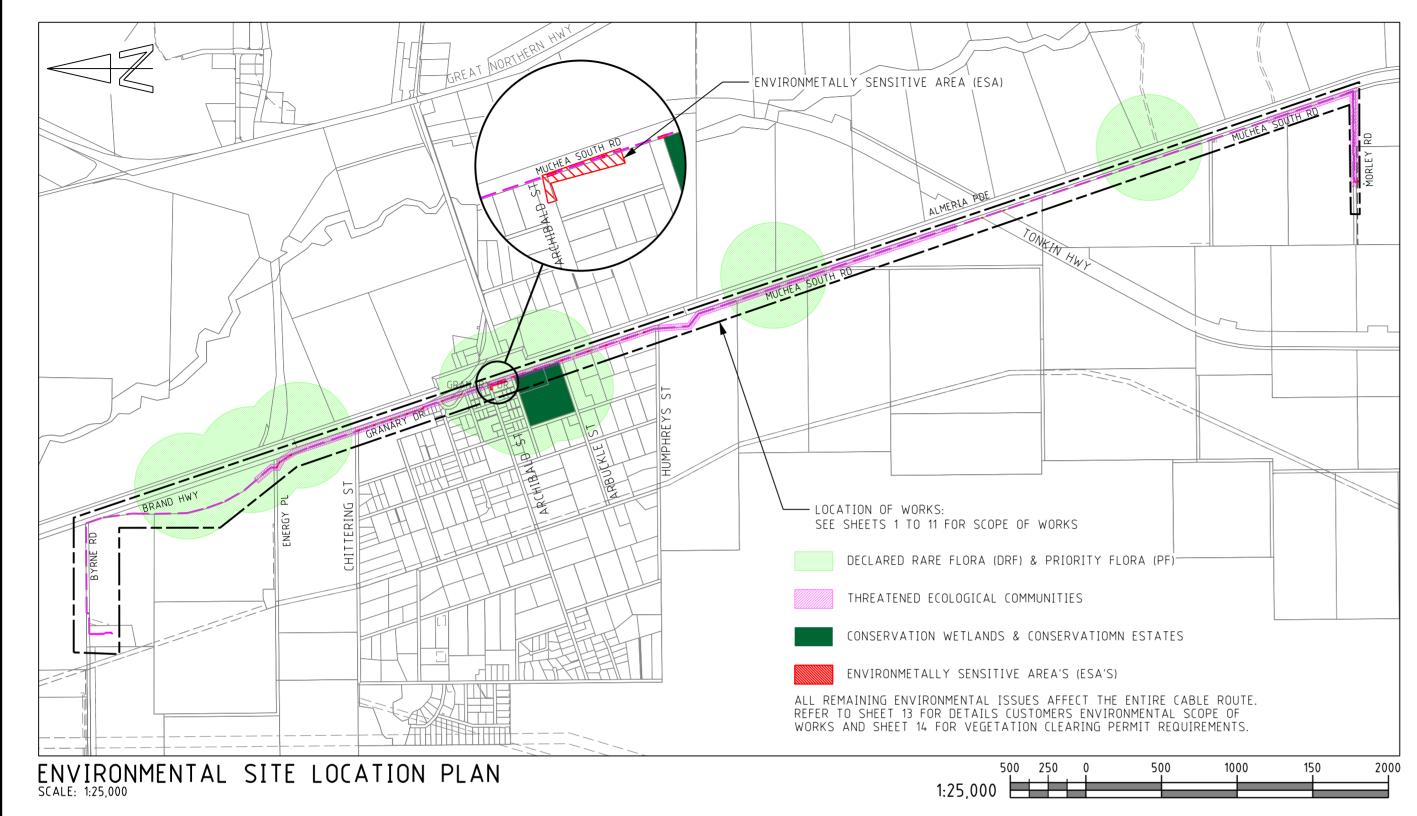
SHEET 12 OF 14

ORIGINAL SIZE - A2

### TO BE CONSTRUCTED DE-ENERGISED UNLESS RISK ASSESSED

В	VEGETATION CLEARING REQUIREMENTS REDUCED	V.M.	07/25	
А	ISSUED FOR CONSTRUCTION	V.M.	04/25	
1	ISSUED FOR ENGINEERING REVIEW	V.M.	08/24	HAZARD MANAGEMENT REGISTER DM#: 69195696
Rev.	REVISIONS	DRN	DATE	FILE REFERENCE DETAILS

#### SAFETY - MAKE IT YOUR PRIMARY VALUE



#### CUSTOMER SCOPE OF WORK (ENVIRONMENTAL)

#### 1. NATIVE VEGETATION:

THE CUSTOMER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CLEARING PERMITS. PRIOR TO WESTERN POWER COMMENCING WORKS. THE CUSTOMER IS REQUIRED TO PROVIDE A COPY OF EITHER:

- A CLEARING PERMIT ISSUED IN THE CUSTOMERS NAME; OR

A REFERRAL DETERMINATION NOTICE ISSUED BY DWER CONFIRMING A CLEARING PERMIT IS

NOT REQUIRED BY THE CUSTOMER; OR WRITTEN DETAILS OF A RELEVANT CLEARING PERMIT EXEMPTION AND SUPPORTING DOCUMENTS (REGULATOR CORRESPONDENCE/LANDOWNER EXEMPTION CLEARING LETTER)

#### 2. DECLARED RARE FLORA (DRF) AND PRIORITY FLORA (PF):

THE CUSTOMER SHALL UNDERTAKE ANY NECESSARY FLORA SURVEYS AND IF REQUIRED OBTAIN RELEVANT APPROVALS TO CLEAR THREATENED OR PRIORITY FLORA. ALL SURVEYS AND APPROVALS SHALL BE PROVIDED TO WESTERN POWER FOR RECORDKEEPING AND REVIEW.

#### 3. THREATENED ECOLOGICAL COMMUNITIES (TEC'S)

THE CUSTOMER SHALL UNDERTAKE ANY NECESSARY FLORA SURVEYS AND IF REQUIRED OBTAIN RELEVANT APPROVALS TO CLEAR THREATENED OR PRIORITY FLORA. ALL SURVEYS AND APPROVALS SHALL BE PROVIDED TO WESTERN POWER FOR RECORDKEEPING AND REVIEW.

#### 4. ENVIRONMETALLY SENSITIVE AREA'S (ESA'S)

REGULATION 5 EXEMPTIONS CANNOT BE USED IN AN ESA. IF CLEARING IS REQUIRED, A NATIVE VEGETATION CLEARING PERMIT OR REFERRAL DETERMINATION NOTICE ISSUED BY DWER CONFIRMING A CLEARING PERMIT IS NOT NECESSARY WILL BE REQUIRED.

#### 5. CONSERVATION ESTATE

THE PROJECT AREA INTERSECTS LAND MANAGED BY THE DEPARTMENT OF BIODIVERSITY AND CONSERVATION ATTRACTIONS (DBCA) AS A CONSERVATION ESTATE WITH A 3m BUFFER. IF THE CONSERVATION AREA IS UNAVOIDABLE AND ACCESS TO THE CONSERVATION ESTATE IS REQUIRED, THE CUSTOMER IS RESPONSIBLE FOR ENGAGING WITH DBCA AND OBTAINING ALL REQUIRED APPROVALS FOR THE WESTERN POWER SCOPE OF WORKS. WESTERN POWER IS RESPONSIBLE FOR PROVIDING A DETAILED SCOPE OF WORK TO THE CUSTOMER INCLUDING DESIGN DRAWINGS AND LIKELY CONSTRUCTION METHOD. THE CUSTOMER IS RESPONSIBLE FOR PROVIDING COPIES OF ANY APPROVALS TO WESTERN POWER PRIOR TO THE COMMENCEMENT OF WORKS.

#### 6. CONSERVATION WETLANDS

RESTRICTIONS APPLY TO CLEARING FOR NEW INFRASTRUCTURE AND THE PLACEMENT OF OIL-FILLED ASSETS. IF VEGETATION CLEARING IS REQUIRED WITHIN 50m OF A CONSERVATION WETLAND, A DWER ISSUED VEGETATION CLEAR PERMIT WILL BE REQUIRED (I.E. REG 5 CUSTOMER EXEMPTIONS NOT ALLOWED).

#### 7. ABORIGINAL HERITAGE

THE WORKS ARE LOCATED WITHIN A REGISTERED ABORIGINAL HERITAGE PLACE. (ACH DIRECTORY PLACE 20008 GINGIN BROOK WAGGYL SITE AND 3525 UPPER SWAN) IT IS THE CUSTOMER'S RESPONSIBILITY TO COMPLETE THEIR OWN DUE DILIGENCE ASSESSMENT AND PROVIDE WESTERN POWER WITH THE EVIDENCE OF SURVEYS/CONSULTATIONS AND APPROVALS (WHERE APPLICABLE) PRIOR TO THE COMMENCEMENT OF

#### 8. HERITAGE (EUROPEAN)

REFERRAL TO THE LOCAL COUNCIL PLANNING OFFICER (OR HERITAGE OFFICER IN LARGER LGAS) WILL ASSIST IN DETERMINING WHETHER THERE ARE ANY LOCAL HERITAGE MATTERS WHICH REQUIRE CONSIDERATION PRIOR TO COMMENCEMENT OF WORKS. THE CUSTOMER IS RESPONSIBLE FOR UNDERTAKING CONSULTATION WITH THE LGA AND/OR OBTAINING ANY APPROVALS. THE CUSTOMER MUST PROVIDE A COPY OF ANY ASSOCIATED APPROVAL TO WESTERN POWER PRIOR TO THE COMMENCEMENT OF WORK.

#### WESTERN POWER SCOPE OF WORK (ENVIRONMENTAL)

#### 1. ACID SULFATE SOILS - DRAINAGE

THE SITE HAS A HIGH TO MODERATE AND MODERATE TO LOW ACID SULFATE SOIL RISK. THE GROUNDWATER AT THIS SITE IS SHALLOW AND DEWATERING IS UNKNOWN. NO DEWATERING IS PERMITTED WITHOUT AN ACID SULFATE SOILS & DEWATERING MANAGEMENT PLAN BEING IN PLACE AND COMPLIANCE WITH THE EXCAVATION AND TRENCHING PROCEDURE (EDM 43740956). ALL EXCAVATIONS TO BE BACKFILLED WITHIN 18 HOURS.

#### 2. CONSERVATION WETLANDS

RESTRICTIONS APPLY TO CLEARING FOR NEW INFRASTRUCTURE AND THE PLACEMENT OF OIL-FILLED

#### ISSUED FOR CONSTRUCTION

CONSULTANT CONTACT DETAILS COMPANY NAME: ELECTRICAL DESIGN & CONSTRUCTION NO NATIVE VEGETATION MAY BE DISTURBED WITHOUT A PERMIT OR OUTSIDE OF THE PERMIT AREA. IF IN DOUBT, PLEASE CONTACT THE RELEVANT MANAGER WHO WILL CONTACT WESTERN POWER CONTACT: AARON BOYALL

CUSTOMER CONTACT DETAILS

COMPANY NAME: THOMPSON & REDWOOD (2001) PTY LTD

# IF YOU SEE THESE SIGNS

These mark a site of environmental value DO NOT disturb the flora between pairs of these markers

If in doubt - contact your supervisor or the local CALM office DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT

#### TO BE CONSTRUCTED DE-ENERGISED UNLESS RISK ASSESSED

. •						
В	VEGETATION CLEARING REQUIREMENTS REDUCED	V.M.	07/25			
А	ISSUED FOR CONSTRUCTION	V.M.	04/25			
1	ISSUED FOR ENGINEERING REVIEW	V.M.	08/24	HAZARD MANAGEMENT REGISTER DM#: 69195696		
Rev.	REVISIONS	DRN	DATE	FILE REFERENCE DETAILS		

## 2770kVA / 22kV COMMERCIAL SUPPLY

101 MORLEY RD, BULLSBROOK

ENVIRONMENTAL TEAM.

PLEASE NOTE: HEAVY PENALTIES MAY APPLY TO INDIVIDUALS AND

BUSINESSES FOR DAMAGE TO NATIVE VEGETATION WITHOUT A PERMIT

CABLE INSTALLATION PLAN 8

ENVIRONMENTAL DRAWING - MITIGATION REQUIREMENTS

DESIGNER: VINKO MAJIC westernpower DESIGN TEAM: CCS DESIGN TEAM B EMAIL: TEL: 13 10 87 DATE: 07/24 SCALE: 1:2000 @ A2 GEO REF: Lat. - 31°37′59′′ S Long. - 115°59'23" [

DRAWING NUMBER

MP207462

SHEET 13 OF 14

REV: B ORIGINAL SIZE - A2

