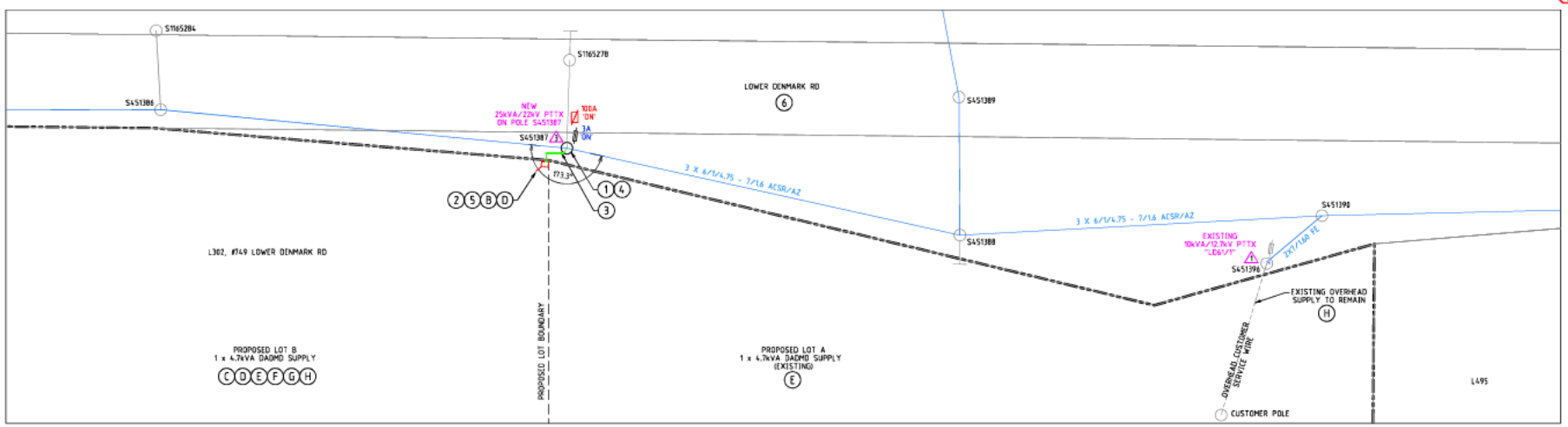
TO BE CONSTRUCTED DE-ENERGISED UNLESS RISK ASSESSED



CONSTRUCTION DETAIL

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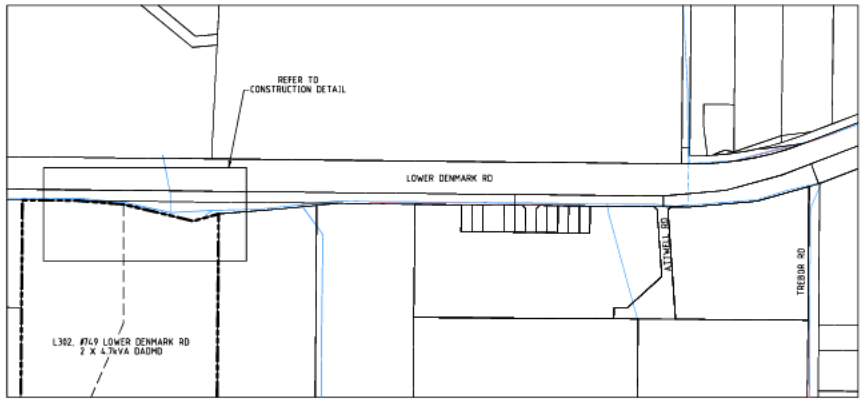

SITE LOCATION PLAN

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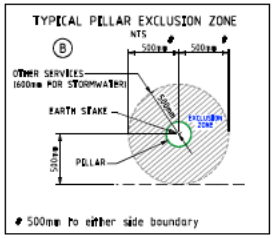
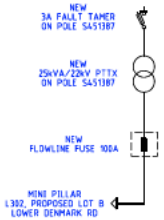




SIMPLIFIED SINGLE LINE DIAGRAM ON PROPOSED LOT B

WESTERN POWER SCOPE OF WORK

EXCAVATION WARNING:
EXCAVATION CONTRACTOR TO FOLLOW THE CODE OF PRACTICE AND PROVIDE COMPETENT PERSON APPROVAL FOR WORK METHODOLOGY AND SOIL RETENTION STRATEGY.

1. AT POLE S451387
REPLACE POLE WITH NEW 12.5m/18kN AT THE SAME LOCATION.
INSTALL 3PH HV ANTI-SWAN INTERMEDIATE, WITH CROSSARM BRACING STRAP.
RE-ATTACH AERIAL STAY TO POLE ST165278.
INSTALL 3PH DOF CROSSARM WITH 3A FAULT TAMER DOF.
INSTALL RE INTERMEDIATE.
INSTALL NEW 25kVA/22kV PTTX. TAP PTTX HV BUSHINGS ONTO HV CONDUCTOR VIA FAULT TAMER DOF.
CONFIGURE PTTX LV BUSHINGS TO 240V ARRANGEMENT AS PER DCSH 49.
CU: P09_R x 1, TXL_25/22 x 1, HV43_3WS x 1, CN18_7/4.75AA x 3, CN18_7/16S x 1, CN74_6/4.75 x 6, HV52_3FT x 3, RE1 x 1, ST2_19/200W x 1, CN9_7/4.75AA x 4, HV20_3H x 1
NON-CU: CB0435 x 1
DCSH: H10=1, RB/3, R13=3, R14=3

2. INSTALL NEW MINI PILLAR AT PROPOSED LOT B ON L302, #749 LOWER DENMARK RD AS PER CABLE ROUTE DETAIL AND TYPICAL PILLAR EXCLUSION ZONE.
CU: LU10 x 1
DCSH: U08=04

3. INSTALL NEW 25LV CABLE FROM MINI PILLAR ON L302, PROPOSED LOT B ONTO POLE S451387 AS PER CABLE ROUTE DETAIL.
CU: CN42 x 20m, CNT3_V25 x 3, CN54 x 2

4. TERMINATE NEW 25LV CABLE ONTO POLE S451387 AND TAP ONTO NEW PTTX LV BUSHINGS VIA 100A FLOWLINE FUSE.
CU: LU5L_25AL0 x 1, LU5L_25ALU x 1
DCSH: U16=3

5. TERMINATE 25LV CABLE ONTO MINI PILLAR ON PROPOSED LOT B, L302, #749 LOWER DENMARK RD AS PER CABLE ROUTE DETAIL.

6. ENVIRONMENTAL FILTER CHECKED

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

1. ACID SULFATE SOILS - DRAINAGE
THE WORKS INTERSECT THE ACID SULFATE SOILS HIGH RISK 500M BUFFER, AND POLE S451387 IS LOCATED 20 M EAST FROM THE MAPPED ACID SULFATE SOIL RISK AREA (HIGH TO MODERATE RISK). THE GROUNDWATER AT THIS SITE IS UNKNOWN. THE PROJECT DOES NOT INCLUDE THE EXCAVATION OF OVER 100M3 OF SOIL, AND DEWATERING IS UNLIKELY TO BE REQUIRED.
ALL EXCAVATIONS NEED TO BE BACKFILLED WITHIN 18 HOURS.
NO DEWATERING IS PERMITTED WITHOUT AN ACID SULFATE SOILS & DEWATERING MANAGEMENT PLAN BEING IN PLACE AND COMPLIANCE WITH THE EXCAVATION AND TRENCHING PROCEDURE (EDM 43704956).

2. ABORIGINAL HERITAGE
THE IDENTIFIED PROJECT AREA DOES NOT INTERSECT ANY KNOWN ABORIGINAL HERITAGE SITES, AND THE WORKS ARE OCCURRING IN A CLEARED ROAD RESERVE. ON THIS BASIS, WESTERN POWER'S SCOPE OF WORK IS CONSIDERED UNLIKELY TO IMPACT ABORIGINAL HERITAGE VALUES.

REFER TO ENVIRONMENTAL ADVICE (EDM 46824951) FOR FURTHER INFORMATION

CUSTOMER SCOPE OF WORK

A. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE WESTERN AUSTRALIAN SERVICE AND INSTALLATION REQUIREMENTS.

B. PILLAR EXCLUSION ZONE TO BE PREPARED AS PER THE WESTERN AUSTRALIAN SERVICE AND INSTALLATION REQUIREMENTS CLAUSE 12.5.3. THIS INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

1. PEGGING THE PILLAR LOCATION AND ADJACENT BOUNDARY LOCATION PRIOR TO CONSTRUCTION.

2. ONLY EASILY REMOVABLE SURFACE TREATMENT IS TO BE INSTALLED IN THIS AREA, SUCH AS BRICK PAVING.

3. CLEAR OF ALL SERVICES.

4. LOCATED 300mm ABOVE 100 YEAR FLOOD LEVEL AND NOT IN A PRECARIOUS POSITION.

C. CUSTOMER TO INSTALL A NEW SMSB WITHIN 30m OF THE POINT OF SUPPLY.

D. CUSTOMER IS RESPONSIBLE TO ARRANGE FOR AN APPROPRIATELY ACCREDITED ELECTRICAL CONTRACTOR TO TERMINATE CONSUMER MAINS TO THE NEW MINI PILLAR BACK BLOCKS. MAX SIZE CONSUMER MAINS THAT CAN BE TERMINATED IS 35mm2/PHASE.

E. CUSTOMER MUST COMPLY WITH POWER QUALITY LIMITS AS PER AS/NZS TS IEC 61000.3.5 AND WESTERN POWER TECHNICAL REQUIREMENTS.

F. CUSTOMER IS RESPONSIBLE TO ARRANGE FOR WESTERN POWER ELECTRICAL CONTRACTOR SERVICE REQUEST OR AN APPROPRIATELY ACCREDITED ELECTRICAL CONTRACTOR, TO INSTALL DIRECT METERING IN THE SWITCHBOARD PRIOR TO SUPPLY BEING ENERGISED.

G. ABORIGINAL HERITAGE: THE CUSTOMER IS RESPONSIBLE FOR COMPLETING THEIR OWN DUE DILIGENCE ASSESSMENT OF POTENTIAL ABORIGINAL HERITAGE IMPACTS, AND ADVISING WESTERN POWER OF ANY COMPLIANCE REQUIREMENTS THAT APPLY.

H. THE CUSTOMER IS RESPONSIBLE FOR ENSURING THAT THE ELECTRICITY PROVISION FOR THE LOTS CREATED MEETS THE REQUIREMENTS STIPULATED IN THE WAPC 163145 CONDITION APPROVAL.

CUSTOMER SHALL PROVIDE ELECTRICAL SAFETY CERTIFICATE FOR THE EXISTING OVERHEAD POWER CONNECTION TO THE DETAILS AS REQUESTED BY THE DEPARTMENT OF PLANNING, LANDS AND HERITAGE.

LEGEND

SCHEME BDY
RETAINING WALL
RESTRICTED ZONE
EASEMENT

HV CABLES
CN53 - 400mm2 (3X1c)
CN49 - 240mm2 (3X1c)
CN48 - 185mm2 (3X1c)
CN50 - 95mm2 (3X1c)
CN51 - 50mm2 (3X1c)
CN51 - 50mm2 (1c)
CN46 - 35mm2 (3X1c)
CN47 - 25mm2 (1c)
EXISTING HV CABLES (SIZE AND TYPE INDICATED)

LV-SL CABLES
CN45 - 240mm2 (1c3c)
CN44 - 185mm2 (1c3c)
CN43 - 120mm2 (1c3c)
CN42 - 25mm2 (1c3c)
CN41 - 16mm2 SL (1c)
40 C PILOT
EXISTING LV CABLES (SIZE AND TYPE INDICATED)

STREET LIGHTS
EXISTING
LEGEND DEFINES TYPE & WATTAGE - NOT COLOUR

PILLARS / PITS / ETC
MINI (WORKING END)
UNIVERSAL
MINI
LINK
CABLE MARKER B/G
SPMS PIT
UTILITIES PIT
RSDP PIT
100/200AMP CUTOUT
CONDUIT / POLY PIPE
Serviced Unclaimed De-energised Lot

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

TRANSFORMER EXISTING SWITCHGEAR

OH EQUIPMENT
INTERMEDIATE
DOF
INLINE STRAIN
PTT
AERIAL STAY
RECLOSER
LOAD BREAK SWITCH
CAPACITOR
LBPTS
PTS
HV ISOLATOR
LV DISCONNECTOR
ISOL TX
OUTRIGGER STAY
GROUND STAY
SECTIONALISER
FLOWLINE FUSE
STREETLIGHT BOX

W.A.P.C. REFERENCE No. 163145

NO NATIVE VEGETATION MAY BE DISTURBED WITHOUT A PERMIT. IF IN DOUBT PLEASE CONTACT THE RELEVANT MANAGER WHO WILL CONTACT WESTERN POWER ENVIRONMENTAL OPERATION TO ARRANGE A PERMIT.
PLEASE NOTE: HEAVY PENALTIES MAY APPLY TO INDIVIDUALS AND BUSINESSES FOR DAMAGE TO NATIVE VEGETATION WITHOUT A PERMIT.

ISSUED FOR CONSTRUCTION

Rev.	REVISIONS	DRN	DATE
A	ISSUED FOR CONSTRUCTION	A.G.	05/24

HAZARD MANAGEMENT REGISTER EDM: 46823814

REFERENCE FILE DETAILS

GREEN TITLE SUBDIVISION

2 x 4.7kVA DADMD - NETWORK VOLTAGE: 22kV/240V

L302, #749 LOWER DENMARK RD, CUTHBERT

DESIGN DRAWING

DESIGNER: CUSTOMER CONNECTION DESIGN	
DESIGN TEAM: CCS SBM QAT - GHD	
EMAIL: ccs.sbmqat@westernpower.com.au	
TEL: 13 10 87	
DATE: 05/24	SCALE: AS NOTED @ A1
GEO REF: Lat. = 35°0'59.92" S Long. = 117°46'44.41" E	

westernpower

DRAWING NUMBER

SP051089

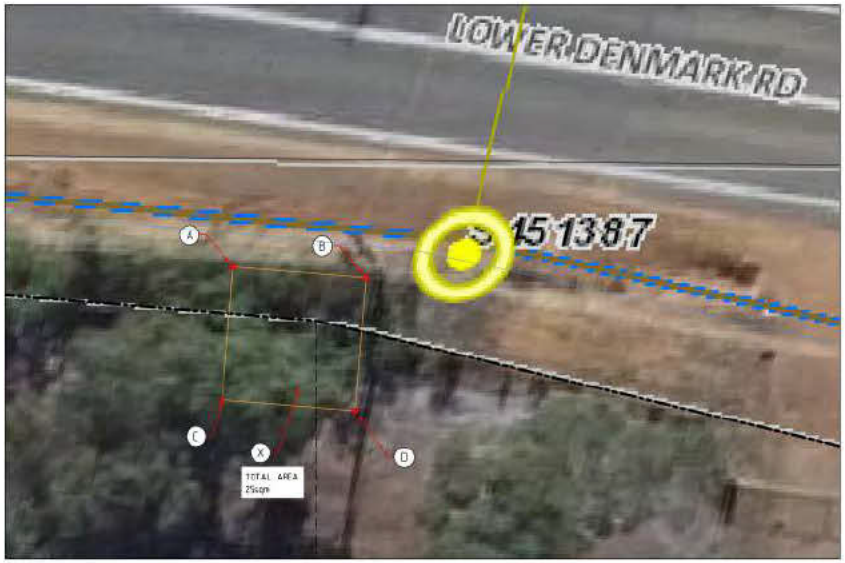
SHEET 01 OF 02

REV: A ORIGINAL SIZE - A1

TO BE CONSTRUCTED DE-ENERGISED UNLESS RISK ASSESSED

SITE LOCATION
SCALE: 1:2500

1:2500



DETAIL A
SCALE: 1:100

1:100

VEGETATION INSTRUCTION

WITH REGARD TO YOUR REQUESTED WORKS, IT HAS BEEN IDENTIFIED BY WESTERN POWER THAT CLEARING OR POTENTIAL CLEARING IS REQUIRED TO FACILITATE THE CONNECTION. BEING A CUSTOMER-FUNDED PROJECT, THE CUSTOMER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CLEARING APPROVALS PRIOR TO THE COMMENCEMENT OF WORKS. YOU CAN ENGAGE AN ENVIRONMENTAL CONSULTANCY TO ASSIST WITH THIS.

THE DEPARTMENT OF WATER AND ENVIRONMENTAL REGULATION (DWER) ADMINISTERS THE CLEARING PROVISIONS OF THE ENVIRONMENTAL PROTECTION ACT 1986 (EP ACT). UNDER THE EP ACT, A CLEARING PERMIT IS REQUIRED TO AUTHORISE CLEARING OF NATIVE VEGETATION UNLESS A VALID EXEMPTION APPLIES OR DWER IDENTIFIES THAT A CLEARING PERMIT IS NOT REQUIRED VIA THE FORMAL CLEARING REFERRAL PROCESS. WHILE CLEARING PERMIT APPLICATIONS ATTRACT FEES, YOU DO NOT HAVE TO PAY A FEE TO SUBMIT A REFERRAL. WHEN APPLYING TO DWER ENSURE THAT THE FOLLOWING WORDING IS INCLUDED IN THE RELEVANT FORMS:

"ALL OTHER CONSTRAINTS HAVE BEEN CONSIDERED AND CLEARING WAS DEEMED THE MOST SIGNIFICANT IMPACT. METHODS TO AVOID AND MINIMISE CLEARING CONSIDERED DURING THE DESIGN PHASE INCLUDED:

1. PLACEMENT OF LAYDOWN AREAS, TURNAROUNDS ETC. IN PREVIOUSLY CLEARED LAND
2. UTILISATION OF EXISTING ACCESS TRACKS WHERE POSSIBLE
3. RESTRICTION OF WORKS TO EXISTING MAINTENANCE ZONE WHERE POSSIBLE
4. UTILISATION OF PRUNING INSTEAD OF CLEARING WHERE POSSIBLE
5. UTILISATION OF FARMER?S PADDOCKS AND PREVIOUSLY CLEARED AREAS WHERE POSSIBLE
6. UNDERGROUNDING OF CABLES AND DRILLING INSTEAD OF TRENCHING
7. SELECTION OF JOINT AND ENTRY/EXIT HOLE LOCATIONS TO AVOID CLEARING OF (HIGH VALUE) VEGETATION
8. HELICOPTER INSTALLATION INSTEAD OF GROUND WORK
9. EARLY AND CONTINUAL ENGAGEMENT WITH WESTERN POWER ENVIRONMENT TEAM TO HIGHLIGHT PROPOSED RISKS AND AVOID WHERE POSSIBLE
10. USING LARGER LINE SPANS THAT CAN SPAN OVER VEGETATION
11. USING STRUCTURES WITH SMALLER FOOTPRINTS
12. IMPLEMENTING LOWER IMPACT CLEARING METHODOLOGIES, FOR EXAMPLE HAND CLEARING INSTEAD OF MECHANICAL CLEARING"

REFER TO https://www.wa.gov.au/service/environment/environment-information-services/clearing-permits FOR FURTHER INFORMATION ON CLEARING APPROVAL REQUIREMENTS. ADVICE ON RELEVANT EXEMPTIONS CAN BE OBTAINED VIA "DWER'S GUIDE 1 - EXEMPTIONS AND REGULATIONS FOR CLEARING NATIVE VEGETATION" AND CLARIFICATION CAN BE SOUGHT VIA EMAILING DWER DIRECTLY VIA info@dwer.wa.gov.au.

DETAIL A OF 25m2 IS THE AREA IN WHICH A CLEARING PERMIT IS REQUIRED, WHICH WILL ALLOW FOR THE WORKS TO PROCEED. THE AREA THAT IS DEFINED IS THE OPERATIONAL POTENTIAL IMPACT OF PERFORMING THE CONSTRUCTION WORKS. THIS PERMIT ALLOWS FOR INADVERTENT DESTRUCTION OF VEGETATION AND IS NOT REQUIRED BY THE LANDOWNER TO CLEAR PRIOR TO WORKS PROCEEDING.

PLEASE NOTE THAT DWER MAY IDENTIFY THAT THE CLEARING HAS SIGNIFICANT IMPACTS AND THERE MAY BE ADDITIONAL REQUIREMENTS BEFORE OR AFTER DWER ISSUE A CLEARING PERMIT THAT MAY IMPACT THE DELIVERY DATE. THESE MAY INCLUDE FLORA OR FAUNA SURVEY REQUIREMENTS AND HYGIENE MANAGEMENT PLANS.
PLEASE ENSURE YOU PROVIDE THE WESTERN POWER SCOPING SPECIALIST/CONSTRUCTION MANAGER WITH A COPY OF ONE OF THE FOLLOWING AS SOON AS PRACTICABLE FOR REVIEW AND SUITABILITY CONFIRMATION:
- A CLEARING PERMIT, OR
- A REFERRAL DETERMINATION NOTICE ISSUED BY DWER CONFIRMING A CLEARING PERMIT IS NOT REQUIRED; OR
- WRITTEN DETAILS OF A RELEVANT CLEARING PERMIT EXEMPTION AND SUPPORTING DOCUMENTS (INCLUDING ANY REGULATOR CORRESPONDENCE).

FURTHER RELEVANT AND SUPPORTING INFORMATION IS AVAILABLE VIA DWER'S WEBSITE. IF YOU HAVE ANY QUESTIONS ABOUT WESTERN POWER'S REQUIREMENTS, PLEASE CONTACT YOUR ALLOCATED DESIGNER.

CLEARING AREA-SURVEY PEG SCHEDULE			
POINT ID	CLEARING AREA	SURVEY PEG LOCATION	
		SOUTH	EAST
A	AREA 1	-35.01665	117.77893
B	AREA 1	-35.01665	117.77898
C	AREA 1	-35.01669	117.77892
D	AREA 1	-35.0167	117.77898

LEGEND
SCHEME BDY
RETAINING WALL
RESTRICTED ZONE
EASEMENT
HV CABLES
EXISTING HV CABLES SIZE AND TYPE INDICATED
LV-SL CABLES
EXISTING LV CABLES SIZE AND TYPE INDICATED
STREET LIGHTS
EXISTING
LEGEND DEFINES TYPE & WATTAGE - NOT COLOUR
PILLARS / PITS / ETC
CABLE MARKER M/S
CONDUIT / PVC PIPE
Services Shown Are De-energised
AERIAL CONDUCTORS AND POLES
EXISTING POLE (ANY TYPE AS INDICATED)
EXISTING AERIAL CONDUCTORS (SIZE AND TYPE INDICATED)
TRANSFORMER
EXISTING
SWITCHGEAR
EQUIPMENT
INTERMEDIATE
DOF
INLINE STRAIN
PTT
AERIAL STAY
RECLOSER
LOAD BREAK SWITCH
CAPACITOR
LBPTS
PTS
HV ISOLATOR
LV DISCONNECTOR
ISOL TX
OUTRIGGER STAY
GROUND STAY
SECTIONALISER
FLOWLINE FUSE
STREETLIGHT BOX

W.A.P.C. REFERENCE No. 163145

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Rev.	REVISIONS	DRN	DATE	REFERENCE FILE DETAILS
A	ISSUED FOR CONSTRUCTION	AG.	05/24	HAZARD MANAGEMENT REGISTER EDM: #68218114

GREEN TITLE SUBDIVISION

2 x 4.7kVA DADMD - NETWORK VOLTAGE: 22kV/240V

L302, #749 LOWER DENMARK RD, CUTHBERT

VEGETATION CLEARING DRAWIN

DESIGNER: CUSTOMER CONNECTION DESIGN
DESIGN TEAM: CCS SBM DAT - GHD
EMAIL: ccs.sbm.qld@westernpower.com.au
TEL: 13 10 87
DATE: 05/24 | SCALE: AS NOTED @ A1
GED REF: Lat. - 35°01'59.92" S, Long. - 117°46'44.41" E

westernpower

DRAWING NUMBER
SP051089
SHEET 02 OF 02
REV: A | ORIGINAL SIZE - A1