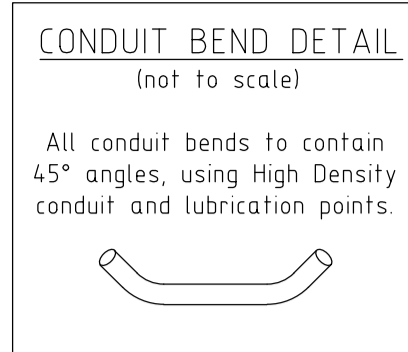
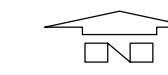


THIS DRAWING TO BE READ IN CONJUNCTION WITH THE FOLLOWING SA POWER NETWORKS TECHNICAL STANDARDS

- TS-085 Trenching and Conduit Standard for Underground Distribution Cable Networks
- TS-087 Construction Standard for Underground Cable Networks
- TS-099 Distribution and Sub-Transmission CAD Drafting Standards
- TS-100 Electrical Design Standard for Underground Distribution Cable Networks
- TS-101 Public Lighting - Design and Installation
- TS-102 Easement Standard for Distribution Networks
- TS-105 Testing for Underground & Overhead Distribution Powerlines up to and including 33kV Networks
- TS-107 Overhead Line Design Standard for Transmission & Distribution Systems
- TS-108 Technical Standard for Distribution Equipment and Transformer Rooms
- TS-109 Earthing of the Distribution Network
- NCC-400 Information for an Applicant Undertaking a Contestable Extension
- NCC-404 Working in the Vicinity of SA Power Networks Infrastructure - Network Access Permit Process
- NCC-802 11kV & 7.6kV to Low Voltage Mk7 Padmount Transformers Information & Requirements for Customers/Contractors
- Visit SA Power Networks web site for the current version of the Technical Standards



Hundred of Maccesfield in the area named MOUNT BARKER
City of Mount Barker



LEGEND

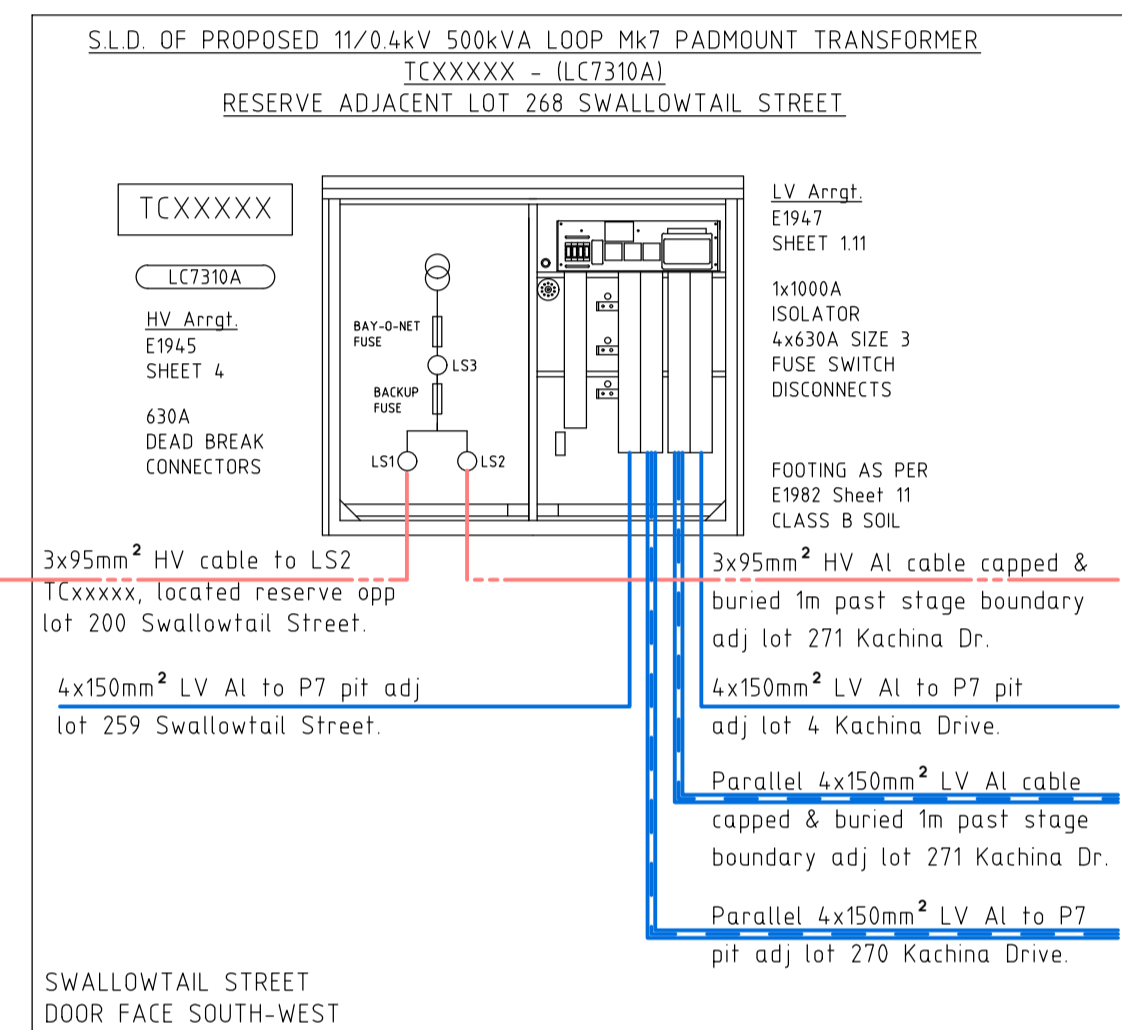
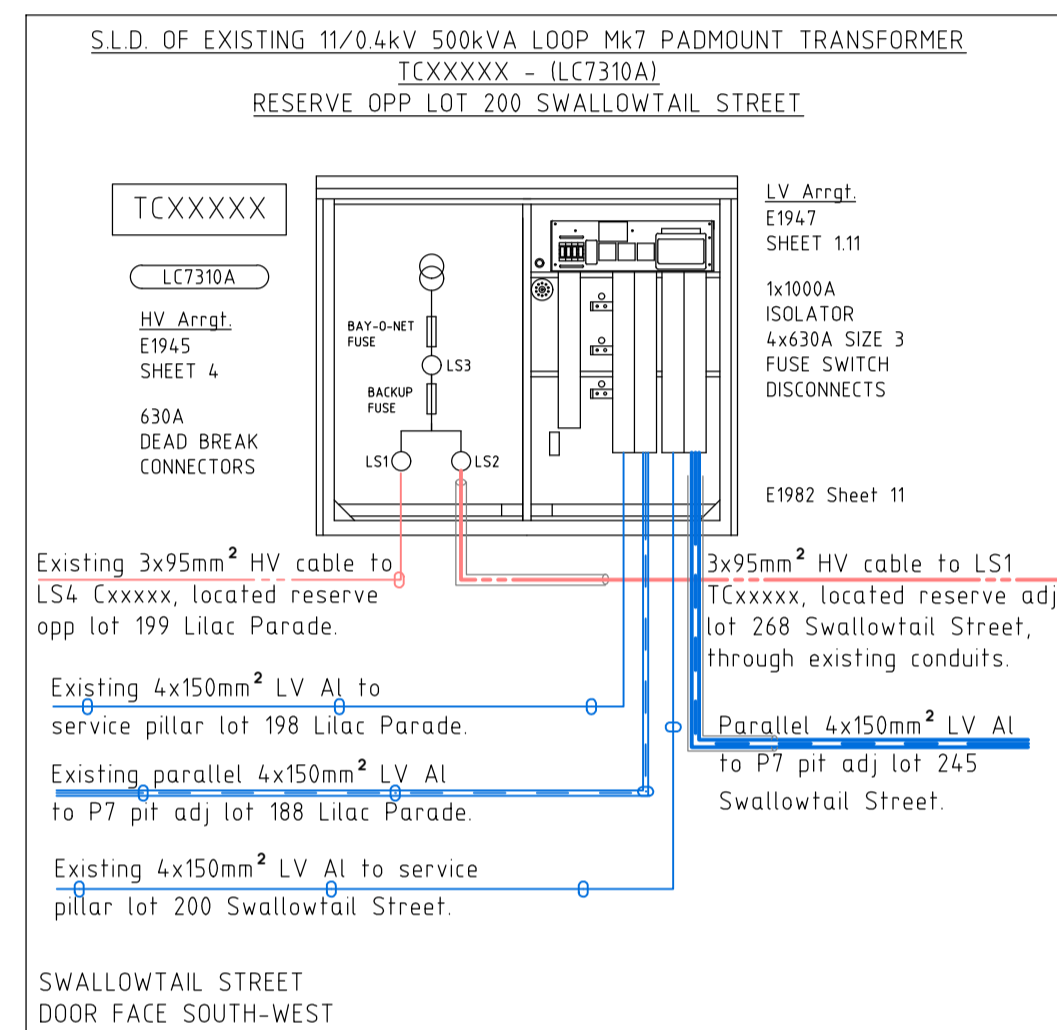
- PROPOSED 3x630mm² 11kV XLPE CABLE (CK6039)
- PROPOSED 3x95mm² 11kV XLPE CABLE (CK6061)
- EXISTING 3x630mm² 11kV XLPE CABLE
- EXISTING 3x95mm² 11kV XLPE CABLE
- PROPOSED PARALLEL 150mm² LV UBC XLPE CABLE (CK5310)
- PROPOSED 150mm² LV UBC XLPE CABLE (CK5310)
- EXISTING PARALLEL 150mm² LV UBC XLPE CABLE
- EXISTING 150mm² LV UBC XLPE CABLE
- PROPOSED PUBLIC LIGHTING CABLE 6mm² TWIN & 6mm² EARTH IN 40mm CONDUIT
- PROPOSED 40mm HD ORANGE ELECTRICAL CONDUIT & DRAW ROPE FOR CONSUMERS MAIN TOAS/NZS 3000 DEPTH 800mm REFER TYPICAL CST CROSS SECTION & STANDARD SA POWER NETWORKS SERVICE PIT LOCATION ARRANGEMENT.
- PROPOSED LV UNDERGROUND OPEN POINT
- PROPOSED SPARE CONDUITS
- EXISTING SPARE CONDUITS
- LV/HV CABLES CAPPED IN CABLE PIT E1926/E1979
- TRAFFICABLE P7 UNFUSED LV JUNCTION PIT WITH GELPORTS, P7 PIT TO BE REINFORCED WITH 200mm CONCRETE SURROUND, N12 BAR TOP AND BOTTOM 480mm DEEP AND STEEL LID AS PER E1921 SHT 7.3
- EXISTING P7 UNFUSED LV JUNCTION PIT
- PROPOSED FUSED RADIAL PILLAR
- PROPOSED FUSED LOOP PILLAR
- PROPOSED FUSED-T/OFF PILLAR
- PROPOSED PADMOUNT TRANSFORMER
- EXISTING PADMOUNT TRANSFORMER
- 17W AEROSCREEN LED, 4000K, BLACK FINISH (EM4100) MOUNTED ON BLACK 6.5m MODERN COLUMN WITH 15m DECORATIVE MODERN OUTREACH (WA4007)
- 105W LED, 4000K, BLACK FINISH (EM4110) MOUNTED ON BLACK 9.0m IMPACT ABSORBING COLUMN (WA4131) WITH SINGLE 3.0m MODERN OUTREACH (WA4531)
- 105W LED, 4000K, BLACK FINISH (EM4110) MOUNTED ON BLACK 9.0m IMPACT ABSORBING COLUMN (WA4131) WITH DOUBLE 3.0m MODERN OUTREACH (WA4531)
- EXISTING LED LUMINAIRE

WGA
WALLBRIDGE GILBERT AZTEC

AS1158.1:2005 & AS1158.3:2005
LIGHTING DESIGN ROAD CATEGORY

- HEYSEN BLVD VS
- ALL OTHER ROADS P4

DATE: 18/09/2018
NAME: L Lukonov [Tech:IES]

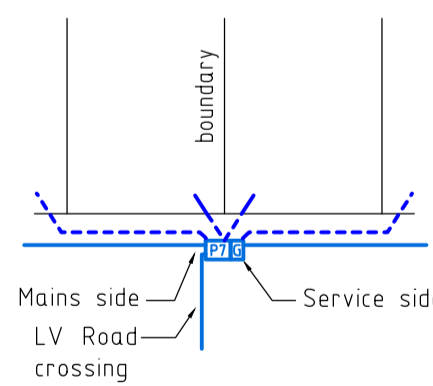


- NOTES:
- Developer responsible for trenching in accordance with SA Power Networks trenching & conduit standard TS-085. Construction to be in accordance with SA Power Networks technical standards and SA Power Networks 'E' drawings.
 - Cables to be laid in 1x100mm dia LD (low duty) orange pipe at all road crossings unless otherwise stated. Road crossing conduits for radial (type) service pits are to extend to the boundary line of the property and be fully continuous. Other road crossings to extend 900mm beyond kerb.
 - The conduit for a radial low voltage road crossing installation needs to be continuous (fully conducted) as per E1904 Sheet 4, with conduit between pillars installed in such a way that it will facilitate quick cable replacement if this is achieved a spare conduit is not required.
 - For NBN Developments, install the CST Road Crossing 90° to the allotment boundary.
 - Cables to have 1000mm minimum cover.
 - Cables through easements to be installed in conduit with spare and marker tape as per TS-085 clause 10.12. Cable markers are to be installed in cable easement as per E1979.
 - Electrical contractor to provide 45° sweep bends. Provide lube injection points prior to each bend for long cable pulling distances. Refer SA Power Networks E1906 drawings for detailed requirements.
 - Any existing underground services shown on these drawings are indicative only, no claim is made that the existing services shown are accurate or complete. Other services may be present which shall be the contractor's responsibility to locate and depth prior to any construction works. Any cable system and equipment must be treated as energised unless otherwise confirmed by SA Power Networks.
 - Phasing of consumer connections as shown.
 - Public lighting to be all-night burning.
 - Number of allotments = 36 lots (3088kVA + 686kVA + lot 500 un serviced) = 276kVA.
 - Number of public lights = 14x17W led + 6x80W (TFI Tariff).
 - Developer - Lanser Communities.
 - Consulting Engineer - Wallbridge Gilbert Aztec.
 - Surveyor - Alexander & Symonds Pty Ltd.
 - Due to the schematic nature of the drawing, the position of equipment shown is indicative only. Actual locations should be verified on site.
 - Retaining walls are required around transformer and switching cubicle easements where the final level changes by more than 300mm in the 2.0m adjacent the easement. The walls are to be built prior to installation of the transformer or switching cubicle and are to be located on the easement.
 - All walls, fences, ceilings and floors within 12m of the padmount transformer station shall have a 3 hour fire rating as determined by the Building Code of Australia.
 - SA Power Networks is responsible for the connecting and energising of the stage.
 - Contractor to provide as constructed drawings to SA Power Networks for approval prior to practical completion. Changes can be made by design consultant for hourly rate charge or AutoCAD format drawings can be purchased from consultant for revision by contractor.
 - Construction by -
"As Constructed" details provided by -
WGA is not responsible for the accuracy of the 'As Constructed' details provided.

UNFUSED P7 PIT WITH GEL PORTS ARRANGEMENT

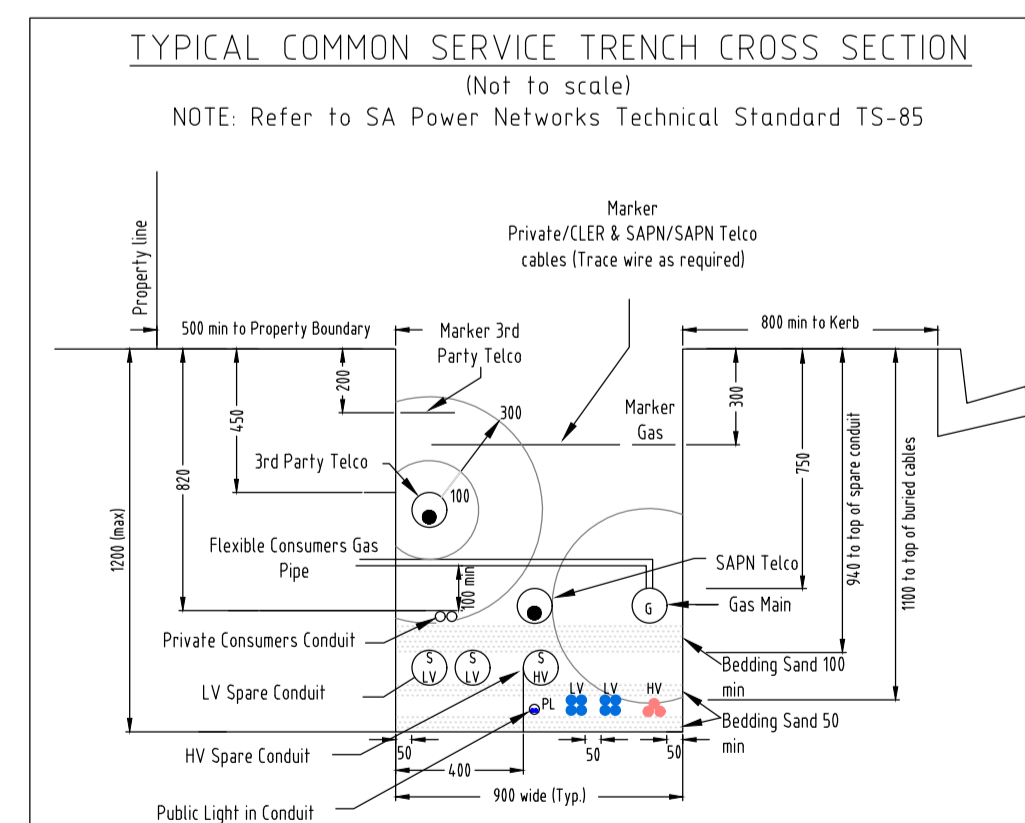
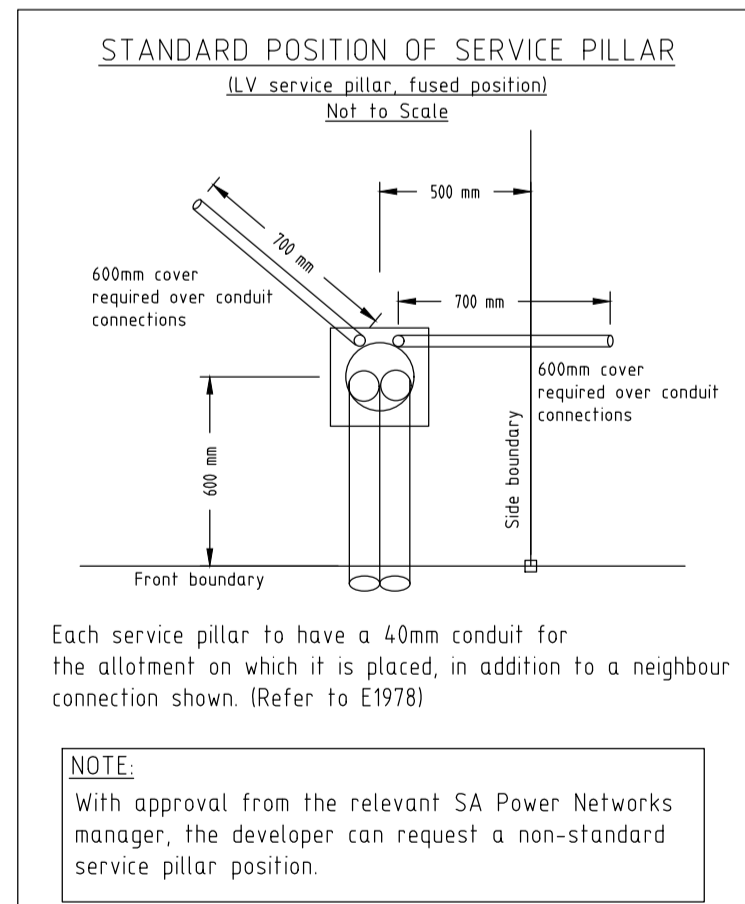
Service fuses required in customer's meter box when supplied from unfused P7 junction pit. Install 40mm HD orange electrical conduit from P7 pit to property boundary as per AS/NZS3000.

- For service connections details refer E1921 Sheet 4 and TS-085 for cable entry and exiting positioning.
- For unmetered supply/public lighting supply refer E1921 Sheet 4.3
- For P7 Gelports pit arrgt. refer DST 1745 Sheet, arrgt. 1, 2 & 3
- For LV main cable junction connection details refer E1921 Sheet 3.3
- For installation and connection refer E-drawings, JSWP 140 and Field Instruction FI-A1.



The pit may be offset to avoid a driveway by aligning the short side of the pit with the shared side boundary of the property. The mains and service side can be on either the left or right to suit the site installation.

NOTE: Ends of consumers mains to be extended above ground level and marked with a 'star dropper' and orange marker tape.

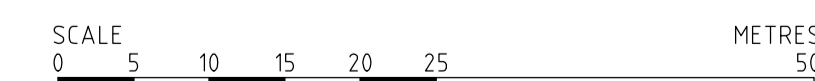


PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION
29 November 2018

EDGE OF COMMON SERVICE TRENCH (from boundary line)	0.7m
PUBLIC LIGHTING ALIGNMENT (from back of kerb)	1.0m
DESIGN INFORMATION	
Termite resistant cable:	Yes
Earthing:	C M E N
The Design ADM / lot:	8 kVA

NOTE:
Any changes to be made on site to the location of the common service trench, and/or electrical & street lighting equipment must first be verified by the electrical designer and the project manager/engineering consultant. Any changes to work within proposed SA Power Networks easements must also be verified by the project surveyor.

DRAWING No. LD-500018690-02-CN.dwg



THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 500018690 SHEET 2

WGA
WALLBRIDGE GILBERT AZTEC

60 Wyatt Street, Adelaide
South Australia 5000
Telephone 08 8223 7433
Email adelaide@wga.com.au

ZONE MGA-54-GDA94
MAP REF: 6627-07-q
GRID REF: 303672.70 E
6114.994.00 N

HBFRA HIGH BUSHFIRE RISK AREA

FEEDER NO: MTB-14
FEEDER NAME: FLAXLEY 11kV
SUBSTATION NO: SSD-777
SUBSTATION NAME: Mt Barker Distribution
ASSET OWNER: SA POWER NETWORKS
PROJECT DEFINITION: NOTIFICATION TYPE: PROJECT TYPE: XX-000000 CN RD

30344.630 E
6114.670.30 N

PRELIMINARY

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE	REV	DETAILS OF REVISION	RVD	CKD	APD	DATE	REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
B	PRELIMINARY ISSUE - LOT LAYOUT UPDATED				29.11.18												
A	PRELIMINARY ISSUE				21.09.18												

DRAWN	L. KLEING	19-09-18	Head Office: 1 Anzac Highway Keswick South Australia 5035
DESIGNED	L. LUKONOV	18-09-18	Postal address: GPO Box 77 Adelaide South Australia 5001
CHECKED	A. IAROSSI	21-09-18	
PROJECT MANAGER	R. GEUE MT BARKER (08) 8391 7721		Corporate switchboard 08 8404 5667 19:00am - 5:00pm Monday to Friday)



CLOVER PARK - STAGE 2 - MT BARKER
PROPOSED UNDERGROUND RESIDENTIAL DEVELOPMENT
DEV. No. 580/D030/15

SCALE	1:500	A1	500018690	SHEET 1 OF 2	REV B
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