



<u>9.80V</u>

TYPICAL COMMON SERVICE TRENCH CROSS SECTION

NOTE: Refer to SA Power Networks Technical Standard TS-85

500 min to Property Boundary — Marker 3rd

3rd Party Telco

STANDARD POSITION OF SERVICE PILLAR

(LV service pillar, fused position)

<u>Not to Scale</u>

Private Consumers Conduit

LV Spare Conduit

600mm cover required over conduit

Front boundary

service pillar position.

connection shown. (Refer to E1978)

Each service pillar to have a 40mm conduit for

the allotment on which it is placed, in addition to a neighbour

With approval from the relevant SA Power Networks

manager, the developer can request a non-standard

DETAILS OF REVISION

Private/CLER & SAPN/SAPN Telco

cables (Trace wire as required)

\_\_\_\_\_ 800 min to Kerb \_\_\_\_\_

FUSED/UNFUSED P7/P8 PIT WITH GEL PORTS

ARRANGEMENT

unfused junction pit. Install 50mm HD orange electrical conduit from pit

• For service connections details refer E1921 Sheet 2.3 and TS-085

• For unmetered supply/public lighting supply refer E1921 Sheet 4.10.

• For P7 Gelports pit arrgt. refer DST 1745 Sheet, arrgt. 1, 2 & 3

• For LV main cable junction connection details refer E1921 Sheet 3.

• For installation and connection refer E-drawings, JSWP 140 and

The pit may be offset to avoid a driveway by aligning the short

The mains and service side can be on either the left or right to

NOTE: Ends of consumers mains to be 600mm into lot boundary, extended above ground level and marked with a 'star dropper'

and orange marker tape. Final consumer main locations to be

coordinated on site with existing and proposed services.

side of the pit with the shared side boundary of the property.

Service side

DETAILS OF REVISION

Service fuses required in customer's meter box when supplied from

to property boundary as per AS/NZS3000.

for cable entry and exiting positioning.

Mains side —

crossing

suit the site installation.

RVD CKD INSP APD DATE REV

LV Road——

Field Instruction FI-A1.

accordance with TS-085

required over conduit

CONDUIT THROUGH 100¢

ROAD CROSSING CONDUIT.

FUTURE TRANSFORMER

AND SWITCHING CUBICLE.

FOR LOCATIONS, REFER TO EASEMENT DETAILS.

DETAILS OF REVISION

LOCATE CAISSONS AS CLOSE AS

PRACTICAL TO THE PROPERTY

BOUNDARY. ORIENTATE FUSE PANEL FACING LANE TO ENSURE FUTURE ACCESS. PROPOSED SA POWER NETWORKS FUTURE TRANSFORMER & SWITCHING CUBICLE LOCATION AND EASEMENT DETAILS (Not to scale) EASEMENT WALL FOR FUTURE TRANSFORMER & SWITCHING CUBICAL.

WALLBRIDGE GILBERT AZTEC

AS1158.3.1:2020 LIGHTING DESIGN

• ALL ROADS DATE: 25/11/2023

NAME: L. Lukanov (TechlES)

NOTES:

E

PROPOSED 3x95mm<sup>2</sup> 11kV XLPE CABLE (CK6006)

PROPOSED 150mm<sup>2</sup> LV UBC XLPE CABLE (CK5310)

PROPOSED PUBLIC LIGHTING CABLE 6mm<sup>2</sup> TWIN & 6mm<sup>2</sup> EARTH IN

CONSUMERS MAIN TO AS/NZS 3000. DEPTH 800mm. REFER TYPICAL CST CROSS SECTION & STANDARD SA POWER NETWORKS SERVICE PIT

USE 50mm HD ORANGE ELECTRICAL CONDUIT FOR CM FROM P8/P7 PITS

EXISTING 95mm<sup>2</sup> 11kV CABLE

EXISTING 150mm<sup>2</sup> LV CABLE

LOCATION ARRANGEMENT.

EXISTING CONSUMERS MAIN

PROPOSED SPARE CONDUITS

EXISTING SPARE CONDUITS

BOUNDARY OF DESIGN AREA

PROPOSED LV UNDERGROUND OPEN POINT

40mm CONDUIT

\_\_\_\_\_

EXISTING PARALLEL 150mm<sup>2</sup> LV CABLE

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.

TRAFFICABLE P7 FUSED LV JUNCTION. P7 PIT TO BE REINFORCED WITH

200mm CONCRETE SURROUND. N12 BAR TOP AND BOTTOM 480mm DEEP

TRAFFICABLE P7 LV JUNCTION. P7 PIT TO BE REINFORCED WITH 200mm

CONCRETE SURROUND, N12 BAR TOP AND BOTTOM 480mm DEEP AS PER

17W STREETLED AEROSCREEN LED, 4000K, BLACK FINISH

1.5m DECORATIVE MODERN OUTREACH (WA4017).

(EM4022) MOUNTED ON BLACK 6.5m MODERN COLUMN WITH

EXISTING JUNCTION PIT.

PROPOSED FUSED RADIAL PILLAR.

PROPOSED FUSED LOOP PILLAR.

PROPOSED FUSED-T/OFF PILLAR.

Existing service Pillar.

PROPOSED HV CABLE JOINT

EXISTING LED LUMINAIRE

PROPOSED PADMOUNT TRANSFORMER.

EXISTING PADMOUNT TRANSFORMER.

- Cables to be laid in 1x100mm dia. LD (low duty) orange conduit at all road crossings unless otherwise stated. Road crossing conduits for radial (type1) service pits are to extend to the boundary line of the property and be fully continuous. Other road crossings to extend 900mm beyond kerb.
- 3. The conduit for a radial low voltage road crossing installation needs to be continuous (fully conduited) as per E1904 Sheet 4, with conduit between pillars installed in such away that it will facilitate quick cable replacement. If this is achieved a spare conduit is not required.
- 4. Spare conduits for LV cables are to be inserted to approximately 25mm and capped within P7 pits. HV spares are to be diverted around pits, as per TS-085.
- 6. Cables to have 1000mm minimum cover.
- 7. Cables through easements to be installed in conduit with spare and marker tape as per TS-085. Cable markers are to be installed in cable easement as per TS-085 Appendix A.

5. For NBN Developments, install the CST Road Crossing 90° to the allotment boundary.

- 8. 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.
- 9. Phasing of consumer connections as shown.
- 10. Public lighting to be all-night burning.
- 11. Number of allotments 43 lots = 258kVA total (refer table).
- 12. Number of public lights 9 x 17W LED (TFI Tariff).
- 13. Developer Lanser Communities.
- 14. Consulting Engineer Kellogg Brown & Root Pty Ltd.
- 15. Surveyor Alexander Symonds Pty Ltd.
- 16. Due to the schematic nature of the drawing, the position of equipment shown is

indicative only. Actual locations should be verified on site.

- 17. 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. Refer to TS-085, TS-100
- 18. All walls, fences, ceilings and floors within 1.2m of the padmount transformer station shall have a 3 hour fire rating as determined by the Building Code of Australia.
- 19. SA Power Networks is responsible for the connection and energisation of the stage.
- 20. Contractor to ensure Hydro Vacuum Excavation maximum working pressure is limited to 2000psi as per TS-085. Any proposed excavation methods adjacent SA Power Networks infrastructure should be in accordance with NICC-404. Network Access Permits (NAP) required for works on and/or around SA Power Networks exclusion and/or restricted zones as per NICC-404 section 9.1 - figures 1,2 and 3.
- 21. 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.
- 22. Construction by -'As Constructed' details provided by -WGA is not responsible for the accuracy of the 'As Constructed' details provided.

THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 5000XXXXX SHEET 01

(from boundary line) PUBLIC LIGHTING ALIGNMENT (from back of kerb)

DESIGN INFORMATION Termite resistant cable: YES

RVD CKD NSP APD DATE

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

ABN: 13 332 330 749

WALLBRIDGE GILBERT Aztec 60 Wyatt Street, Adelaide within proposed SA Power Networks easements must South Australia 5000 Telephone 08 8223 7433

ROAD CATEGORY

Email adelaide@wga.com.au WGA Project No. WGA189172

SURVEY DATE:	GI
CO-ORDINATE DATUM ZONE: MGA-54-GDA94	
GROUND SCALE:	
HORIZ:	
VERT:	28
	6′

S <b>NAME</b> : Symonds	MAP REF 6628-19-	•		NBFRA	NON	BUSHFIRE	RISI	K AREA
	GRID REF			FEEDER NO:EL				
E DATUM				FEEDER NAME:CURTIS RD 11kV				
GDA94		6162966	Ν	SUBSTATION				
				SUB NAME: AN	NGLE	VALE		
•	i	i		ASSET OWNER	R: SA	POWER N	ETW	/ORKS
			PROJECT DEFINITION:	NO	TIFICATION TYPE	F	PROJECT TYPE	
		. — —		XX-000000	C1	N	F	RD
	284673 6162658	_		PR	EL	.IMINA	R`	Y

1	SCALE 0 10 20 30 40 50	METRES 100				Termite resistant cable: YES Earthing: CMEN The Design ADMD / lot: 6kVA	also be verified by the project surveyor.
						DRAWN L LUKANOV	11-02-22 Head Office: 1 Anzac Highway Keswick South Australia 5035
						CHECKED E ESTATION	xx-12-22 Postal address: GPO Box 77 Adelaide South Australia 5001
						INSPECTED	
А	PRELIMINARY ISSUE - FOR COORDINATION ONLY	WGA LL	15.12.23				Corporate switchboard 08 8404 5667 (9.00am - 5.00pm Monday to Friday)
	_			1		— APPROVENI	Monday to Friday)

RVD CKD INSP APD DATE REV

MIRAVALE - STAGE 10A UNDERGROUND RESIDENTIAL DEVELOPMENT DEV. No. 292/D068/17

SHEET 2 OF 2 REV 1:500

5000XXXXX