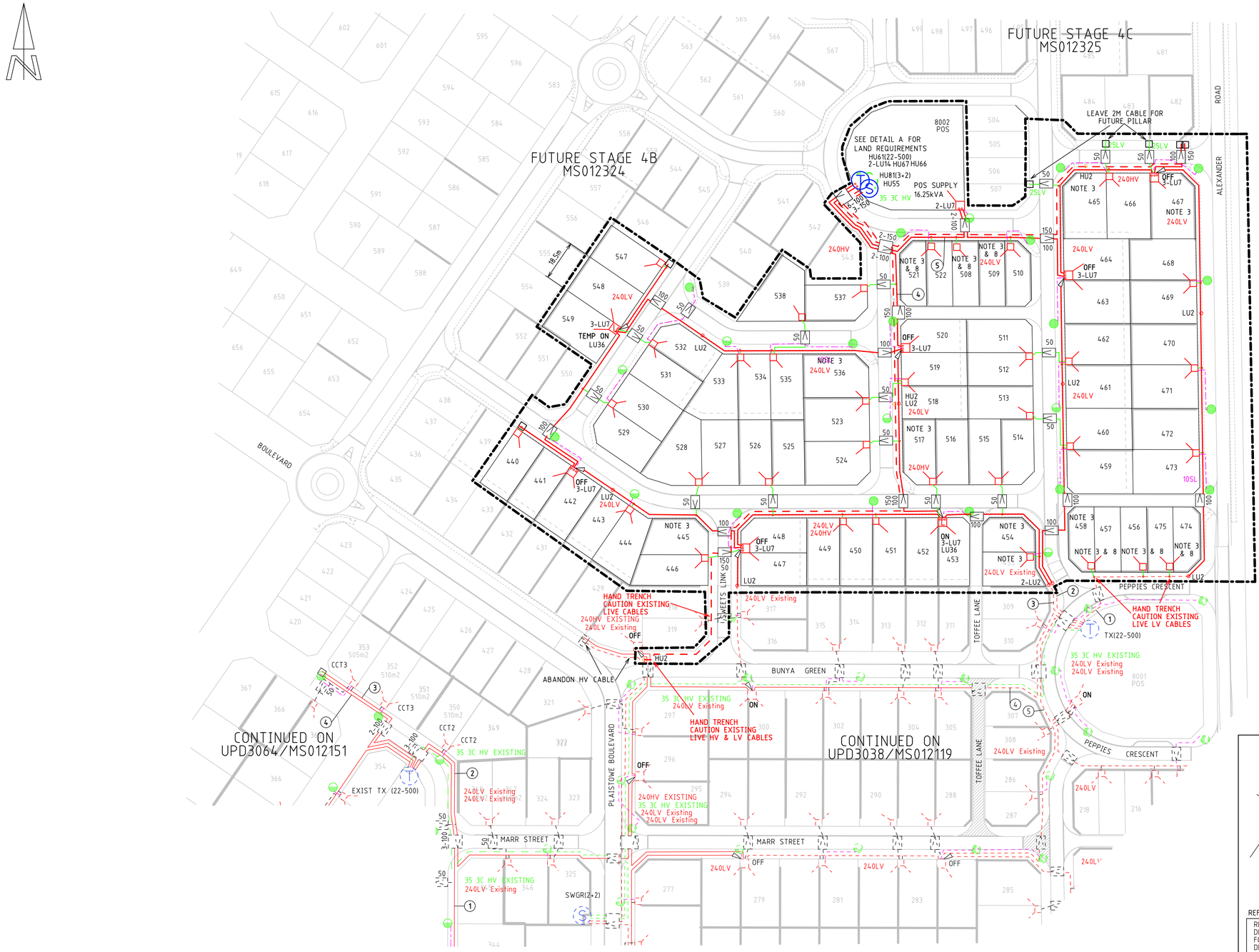


WPC STREETLIGHTS TO BE LOCATED IN LINE WITH LOT BOUNDARY ON 2.7m ALIGNMENT OR 1.5m FROM KERB

ROAD RESERVE | LOT | LOT

TYPICAL LIGHT POLE ARRANGEMENT

DECORATIVE STREET LIGHTS

6.5m Meadow Sp(19) Bourke(19) 125W MV

6.5m Meadow Sp(19) Bourke(19) 80W MV

COLOUR: HAWTHORN GREEN

STREET LIGHTING IN ACCORDANCE WITH SERPENTINE JARRAHDALE COUNCIL POLICY AP9

CABLE		CONDUIT SIZE
240mm2	HV	150mm
185mm2	HV	150mm
95mm2	HV	150mm
50mm2	HV	150mm
35mm2	HV	100mm
240mm2	LV	100mm
185mm2	LV	100mm
120mm2	LV	100mm
25mm2	LV	50mm
16mm2	SL	50mm
10mm2	SL	50mm

STREET LIGHTS — EXISTING

50w MV · 70w HPS · 70/75w MH

80w MV · 150w HPS · 150w MH

125w MV · 250w HPS · 250w MH

PILLARS

UNIVERSAL · UMS PIT

MINI · 100AMP CUTOUT

MINI -WORKING END · 200AMP CUTOUT

LINK

TRANSFORMERS (T) · SWITCHGEAR (S)

SCHEME BOUNDARY

RETAINING WALLS

DUCTS — ARROW DENOTES ALIGNMENT TO PEG

EXISTING DUCTS

DUCTS TO BE LAID TO WPC SPECIFICATION ES 3/16/84

NOTES

1. CABLE PROTECTOR SLABBING IS REQUIRED WHERE THE CABLES LEAVE THE STANDARD WPC ALIGNMENT
a.) TERMINATE AT STREETLIGHT POLE
b.) ENTER ROAD CROSSING CONDUIT
c.) TERMINATE AT CABLE POLE

2. STREET LIGHTS TO BE INSTALLED CLEAR OF FOOTPATHS AND PRAM RAMPS EITHER ON THE 2.7m ALIGNMENT OR 1.5m BEHIND BACK OF KERB. FINAL POSITIONS TO BE DETERMINED ON SITE SUBJECT TO WPC APPROVAL

3. CABLES TO BE INSTALLED IN CORFLO CONDUIT ALONG RETAINING WALLS OR FENCES TO AVOID DAMAGE TO CABLES. ONE CABLE PER CONDUIT SIZED TO SUIT. SEE LEGEND ABOVE FOR CONDUIT SIZE SERVICE CABLES TO BE JOINTED BEFORE RETAINING WALLS COMPLETED. CIVIL CONTRACTOR TO ARRANGE WITH WPC FOR OPTION A OR CABLE CONTRACTOR FOR OPTION B.

4. WPC SITE TO BE INCORPORATED EITHER AS AN EXTENSION OF THE ROAD RESERVE OR PUBLIC OPEN SPACE. NO PIPES, DRAINS OR OTHER SERVICES ARE PERMITTED BENEATH SUBSTATION SITE. IF ANY SUBSTATION LIES WITHIN THE 100 YEAR FLOOD ZONE THE SUBSTATION MUST BE 1M ABOVE THE FLOOD ZONE LEVEL. NO METAL FENCES TO BE INSTALLED ADJACENT TO SUBSTATION SITES

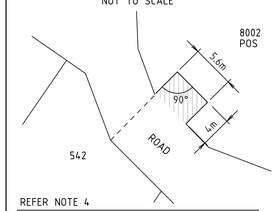
5. IF ACID SOILS ARE PRESENT, CLEAN NEUTRAL BACKFILL IS TO BE USED AROUND THE CABLES.

6. ALL WPC PILLAR LOCATIONS TO COMPLY WITH W.A.E.R. STANDARDS.

7. INSTALL 50mm CONDUIT THROUGH RETAINING WALLS FOR CONSUMER MAINS ON ADJACENT LOTS WHERE REQUIRED

8. WHERE INDICATED INSTALL PILLARS OFF STANDARD ALIGNMENT TO SUIT RETAINING WALLS SUBJECT TO WPC APPROVAL

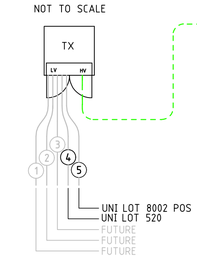
DETAIL A
LAND REQUIREMENTS
NOT TO SCALE



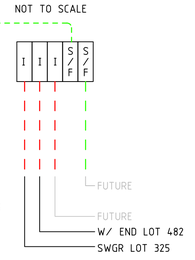
REFER NOTE 4

REFER TO WESTERN POWER STANDARD DRAWINGS DSM-3-02, DSM-4-02, DSM-4-04 FOR LAND REQUIREMENTS & INSTALLATION DETAILS INCLUDING CULVERT - CONTRACTOR TO INSTALL.

MPS TRANSFORMER
CABLE LAYOUT
NOT TO SCALE



HV SWITCHGEAR
CABLE LAYOUT
NOT TO SCALE



TRANSFORMER NAME AND LOCATION	CIRCUIT NO.	FUSE AMPS	CABLE mm²	CIRCUIT NAME	VOLT DROP	AMPS	TOTAL AMPS @ 3.5kVA/LOT
TX LOT 8001 500kVA/22kV (656A)	1	315	240	UNI LOT 467 (OFF)	2.02	73	558A
	2	315	240	UNI 464 (OFF)	2.72	58	
	3	315	240	UNI 453 - 448 - 442 (OFF)	5.85	146	
	4	315	240	UNI 300 - UNI 320	4.59	117	
	5	315	240	POS - 297 (OFF)	8.53	165	

TRANSFORMER NAME AND LOCATION	CIRCUIT NO.	FUSE AMPS	CABLE mm²	CIRCUIT NAME	VOLT DROP	AMPS	TOTAL AMPS @ 3.5kVA/LOT
TX LOT 8002 500kVA/22kV (656A)	1	315	240	FUTURE			222A
	2	315	240	FUTURE			
	3	315	240	FUTURE			
	4	315	240	UNI 520 - 442 - 440 W/E	5.00	102	
	5	315	240	POS - 482 W/E	4.87	120	

WARNING

BEWARE OF UNDERGROUND SERVICES

The location of underground cables are approximate only and their exact position should be checked on site. No guarantee is given that all existing cables and services are shown. Locate all underground cables and services before commencement of work. Refer to Worksafe Regulation 3.21.

DIAL 1100 BEFORE YOU DIG

WARNING

IF WORKING IN THE VICINITY OF EXISTING OVERHEAD DISTRIBUTION OR TRANSMISSION LINES CONTRACTOR TO COMPLY WITH "WORKSAFE" CLEARANCES DURING CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	CHKD	SENT WPC	APPR. WPC
3	ISSUED FOR CONFORMANCE REVIEW	26-4-06		RP	26-4-06	
2	DRAFT ISSUED TO CLIENT FOR COMMENT AFTER DIP CHANGED	18-4-06		RP		
1	DRAFT ISSUED FOR COMMENT	16-3-06	RM	RP		

DFIS REFERENCE 31° 40'50"S, 115° 43'36"E

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20m 0 20 40 60 80 100m

ALL DISTANCES ARE IN METRES

Underground Power Development
A.B.N. 53 094 593 087
SUITE 4
47 HAVELOCK STREET
WEST PERTH WA 6005
PHONE 9485-2280
FAX 9485-2290
EMAIL team@upd.com.au

BYFORD CENTRAL STAGE 4A
BYFORD
70 RESIDENTIAL LOTS & POS SUPPLY
UNDERGROUND POWER DISTRIBUTION

DESIGNER	DRAWN	SCALE	Western Power Reference No	Drawing No	Revision
R PEARCY	RM	1:1000	MS012323	UPD3173	3
	ENGINEER KS		WAPC No 129226/126085		

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