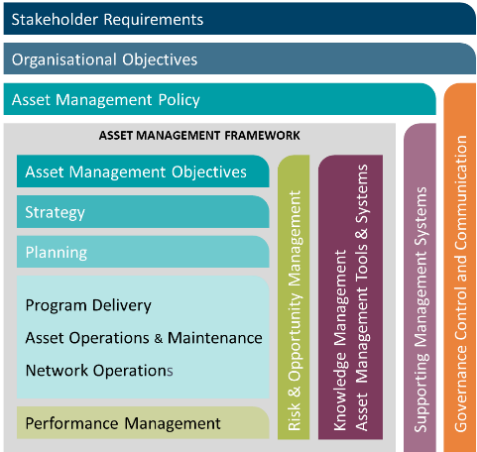


Western Power’s Asset Management System

Distribution Design Catalogue Unmetered Supply Section 16 (UM)



Original Issue: June 2004
Content Owner/Custodian: Distribution Design and Standards
This Revision: August 2026
Date for Next Review: April 2028

© Western Power
ABN 18540492861



Document control

Endorsement approvals

	Name	Title	Signature and Date
Compiled by	Nory Cerrado	Distribution Draftsperson	Signature on file
Checked by	Chris Omodei	Principal Engineer	Signature on file
Endorsed by	Ken Tiong	Team Leader	Signature on file
Approved by	Pep Ngwenya	Distribution Design & Standards Manager	Signature on file

Record of revisions

Revision No.	Date	Version	Compiled by	Description
1	04/04/2025	EDM 12	Nory Cerrado	First Revision with new Format and 3 yearly review
2	14/07/2025	Volt 6	Nory Cerrado	Refer to Amendment List
3	31/08/2026	Volt 9	Nory Cerrado	Refer to Amendment List

This document gives direction to and influences the following documents.

Doc	Title of document
ALL CHAPTERS	DDC - DISTRIBUTION DESIGN CATALOGUE
ALL CHAPTERS	DCSH - DISTRIBUTION CONSTRUCTION STANDARD HANDBOOK
ALL CHAPTERS	DSPM - DISTRIBUTION SUBSTATION PLANT MANUAL

Stakeholders (people that were consulted when document was updated)

Business Unit / Function

Asset Management - Asset Performance

Asset Management – Safety Environment Quality and Training

Asset Management - Grid Transformation

Asset Operations – Network Operations

Asset Operations – Operational Services

Asset Operations – Customer Connection Services

Business and Customer Service – Customer Service

Notification list (people to be notified when document is updated)

Business Unit / Function

Asset Management - Asset Performance

Asset Management – Safety Environment Quality and Training

Asset Management - Grid Transformation

Asset Operations – Network Operations

Asset Operations – Operational Services

Asset Operations – Customer Connection Services

Business and Customer Service – Customer Service

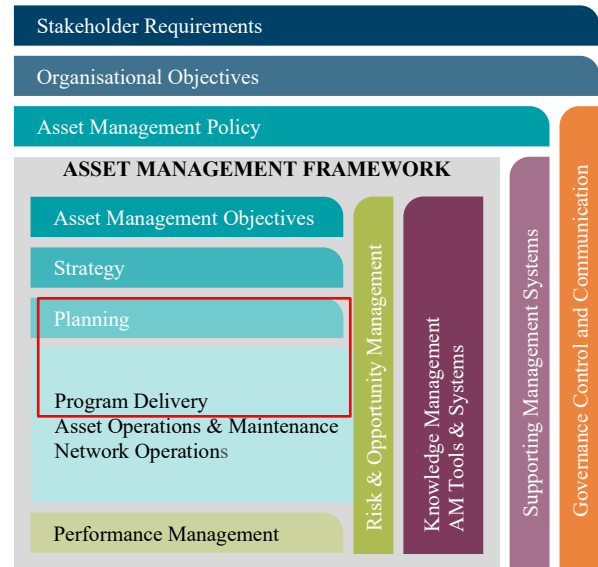
This document must not be made available to personnel outside Western Power without the prior written approval of Western Power.

Document classification and hierarchy

A key requirement of the Western Power Asset Management Policy (AMP) is to develop and maintain an Asset Management System (AMS). This Distribution Substation Plant Manual is defined as a technical document within the AMS document classification and structure and sits within the planning and Program Delivery components of the AMS.

The AMS and the interrelationships between the collection of documents, tools and systems that are used for asset management are described in the AMS document Volt ID

ID-005-dc7f342fed83eb7f008777ff0463b876.

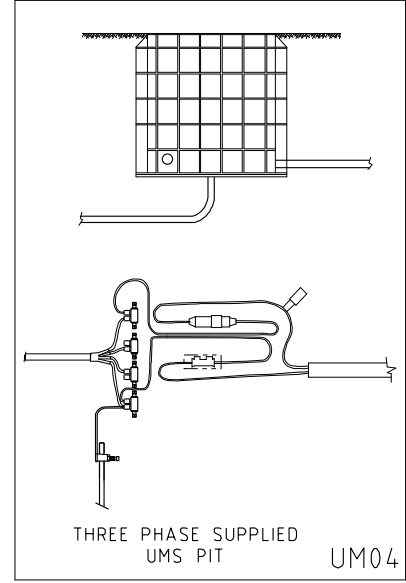
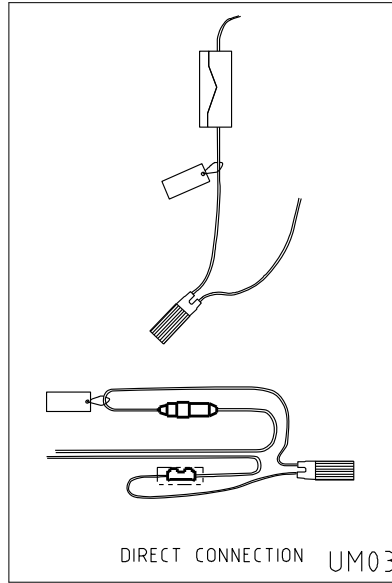
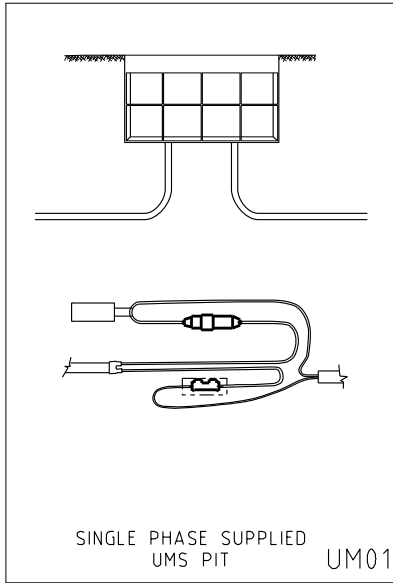


Revision List

For drawing revisions please refer to the DDC Amendment list Volt ID
ID-005-8398a186f48cf17cb12618586aa61cb0

© Copyright of Western Power

Any use of this material except in accordance with a written agreement with Western Power is prohibited.



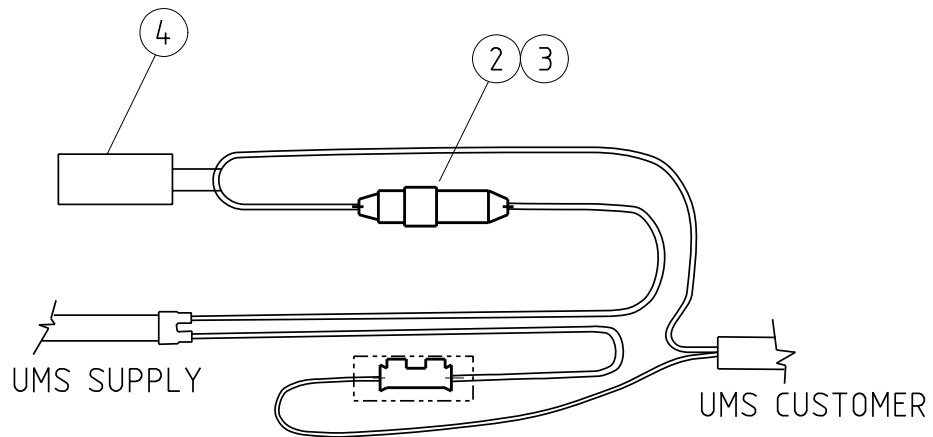
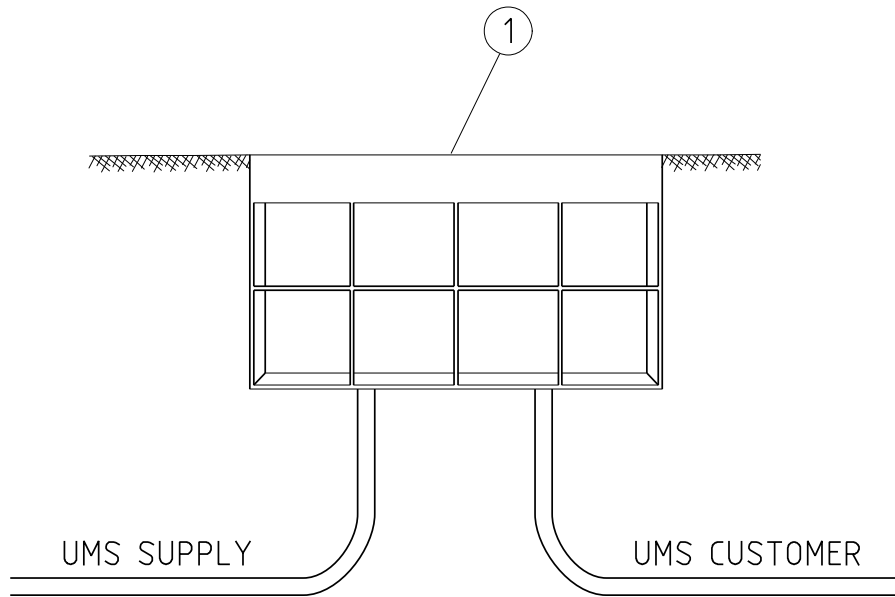
				COMPATIBLE UNIT			DISTRIBUTION DESIGN CATALOGUE		westernpower	
				TITLE			DRAWN: JRR		DATE: 22-04-2014	
							ORIGINATED:		SCALE: NTS	
							CHECKED: REE		APPROVED:	
							GRANT STACY		REV. F	
									SHT.	

UM COMPATIBLE UNITS

UM INDEX

Unmetered Supply CU List

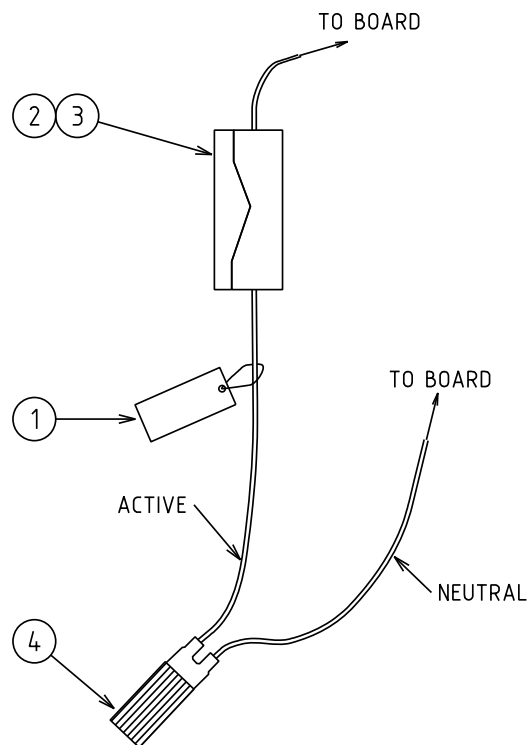
CU	CU DESCRIPTION
UM1	Single phase supplied ums pit
UM3_NR	Direct connection - fit fuse only
UM3_R	Direct connection - install red spot and fit fuse
UM3_FS	Direct connection to below ground service pit - install flood seal below great to service pit
UM_4	T-Off with 25 mm ² from LV feeder cable



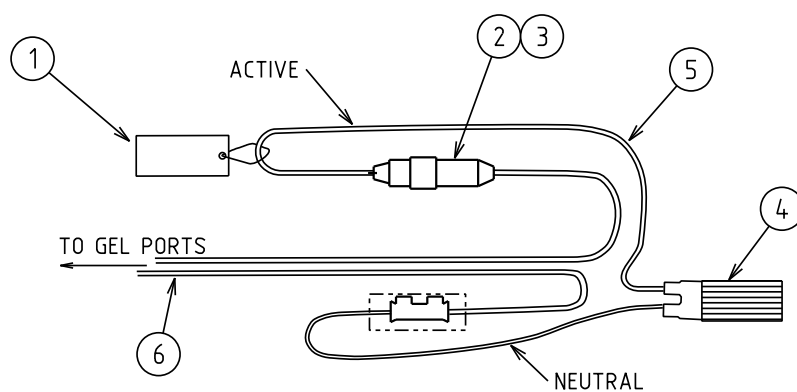
				COMPATIBLE UNIT				DISTRIBUTION DESIGN CATALOGUE		westernpower	
				TITLE				DRAWN: JRR		DATE: 22-04-2014	
				SINGLE PHASE SUPPLIED UMS PIT				ORIGINATED:		SCALE: NTS	
								CHECKED: REE		REV. C	
								APPROVED: GRANT STACY		SHT.	
										UM01	

CU	CU Description
-----------	-----------------------

UM1 Single phase supplied ums pit					
ITEM NUMBER	STOCK CODE	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	FB0055	Single phase pit	1	ea	
2	FE0110	fuse holder kit	1	ea	
3	GF2102	fuse, 20 Amp	1	ea	
4	CZ0307	instruction tag	1	ea	



PILLAR CONNECTION



BELOW GROUND SERVICE PIT CONNECTION

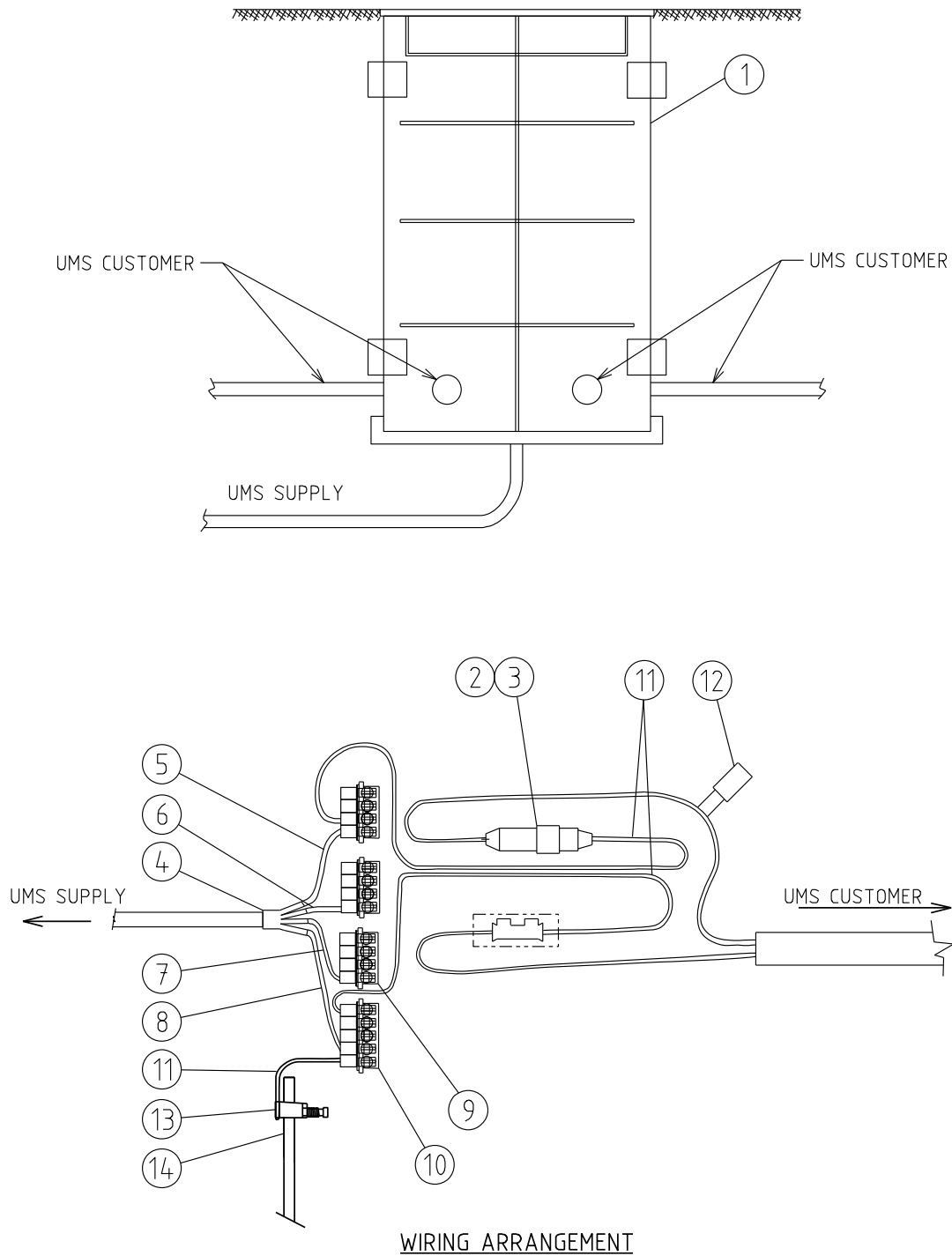
				COMPATIBLE UNIT		DISTRIBUTION DESIGN CATALOGUE		westernpower	
				TITLE		DRAWN: JRR	DATE: 22-04-2014	DRG. No.	
				DIRECT CONNECTION		ORIGINATED:	SCALE: NTS	UM03	
						CHECKED: REE		REV.	SHT.
						APPROVED: GRANT STACY		C	1/1
REV.	DATE	DESCRIPTION	ORGO.	CHKD.	APRD.				
C	10 08 26	ITEM 5 INSULATION SLEEVE ADDED	NG	VAS	CO				
B	21 08 19	ITEM 4 AND FLOOD SEAL DETAILS ADDED	CO	NN	GS				
A	08 08 01	ORIGINAL ISSUE							

CU	CU Description
-----------	-----------------------

UM3_NR Direct Connection to pillar - fit fuse only (no red spot required)					
ITEM NUMBER	STOCK CODE	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CZ0307	instruction tag	1	ea	
2	GF0917	red spot fuse, 20 Amp	1	ea	
4	FE0112	Termination kit	1	ea	If WP Cable

UM3_R Direct Connection to pillar - install red spot and fit fuse					
ITEM NUMBER	STOCK CODE	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CZ0307	instruction tag	1	ea	
2	GF0917	red spot fuse, 20 Amp	1	ea	
3	GF0121	red spot fuse holder	1	ea	
4	FE0112	Termination kit	1	ea	If WP Cable

UM3_FS Direct Connection to below ground service pit - install flood seal and fit fuse					
ITEM NUMBER	STOCK CODE	DESCRIPTION	QTY RQD	UNIT OF MEASURE	REMARKS
1	CZ0307	instruction tag	1	ea	
2	FE0110	Fuse holder kit	1	ea	
3	GF2102	Fuse 20 amp	1	ea	
4	FE0112	Termination kit	1	ea	If WP Cable
5	FE0102	Insulation Sleeve - Red	1	ea	If WP Cable
6	EE1432	16mm ² cable	2	m	



F	09 06 25	PIT AND CONNECTORS CHANGED	NG	SH	CO	THREE PHASE SUPPLIED UMS PIT	COMPATIBLE UNIT		DISTRIBUTION DESIGN CATALOGUE		 westernpower	
E	23 05 22	4 PORT CONNECTOR CHANGED	CO	SH	GS		DRAWN: JRR	DATE: 22-04-2014	DRG. No.	UM04		
D	18 02 21	DETAILS REVISED	CO	REE	GS		ORIGINATED:	SCALE: NTS				
C	30 06 16	TITLE CHANGED	REE	JC	GS		CHECKED: REE					
B	05 02 16	DRG. FORMAT CHANGED AND ITEM 13 ADDED	JC	ME	GS		APPROVED:	GRANT STACY	REV F	SHT 1/1		
A	16 09 09	ORIGINAL ISSUE										
REV.	DATE	DESCRIPTION	ORGO.	CHKD.	APRD.							

CU	CU Description
-----------	-----------------------

UM_4 T-Off with 25mm² from LV Feeder Cable **					
ITEM NUMBER	STOCK CODE	DESCRIPTION	QTY Rqd	UNIT OF MEASURE	REMARKS
1	FB0052	Three phase pit	1	ea	
2	FE0110	fuse holder kit	1	ea	
3	GF2102	fuse, 20 Amp	1	ea	
4	FE0109	4-finger glove and black heatshrink sleeving	1	ea	
5	FE0102	red heatshrink sleeving	1	ea	
6	FE0103	white heatshrink sleeving	1	ea	
7	FE0104	blue heatshrink sleeving	1	ea	
8	FE0071	black heatshrink sleeving	1	ea	
9	CC0846	4-port gel port	3	ea	
10	CC0851	5-port gel port	1	ea	
11	EE1432	16mm conductor	3	m	
12	CZ0307	instruction tag	1	ea	
13	CE0055	earth clamp	1	ea	
14	CE0135	earth rod	1	ea	

** Use UM3_FS if more than one required.