

NetWork Records NetMAP Symbols Booklet East of England

This symbol booklet is intended as a general guide only - some local variations of these symbols may be found.

Version 1.2

Released October 2010

Always check with your local Network Records office or the UK Power Networks server to ensure that you are using the most up to date copy of this booklet - Tel: 08000 565866.

Index:-

Page no:		Contents:
1 2		Guidance notes. The area covered by this guide.
3	1:500 view	
4 7 8 9 10 11 13 14		Scenery. Scenery (UK Power Networks use only). Primary distribution cables (EHV). Secondary distribution cables (HV/LV). Service cables/terminations. Cable ducts. EHV/HV/LV sites. Mains joints. Service joints. Cross sections.
17		Common abbreviations/terminology (all views).
19	1:2500 (LV) & only).	1:10000 (HV) network views (UK Power Networks use
20 22		1:2500 scale LV network. 1:10000 scale HV network.
23	LV network dia	agram view (UK Power Networks use only). Overhead lines.
24 25 26		Underground cables. Joints. Substations/pole transformers.

Guidance notes.

Important notice:

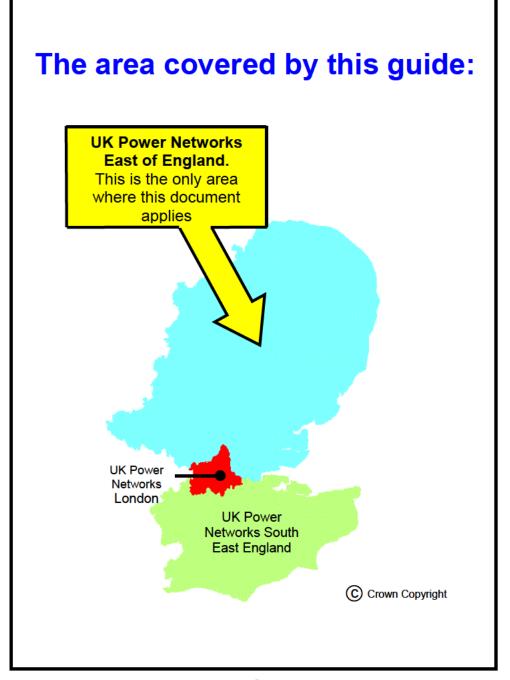
If you do not understand the NetMAP record that you are using, please contact the UK Power Networks Network Records team for guidance

Tel: 08000 565866.

- The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed.
- It must be assumed that there is at least one service to each property, lamp column, street sign etc.
- All cables must be treated as live, unless proven otherwise by an authorised UK Power Networks representative.
- Third party cables are not usually shown. In cases of doubt, please telephone 08000 565866.
- When two or more maps are supplied for the same area, the maps must be read in conjunction with each other and with this symbol document.
- All LV cables are assumed to be 4 core, and all HV cables assumed to be 3 core unless otherwise stated.



Plan Provision Team Fore Hamlet Ipswich Suffolk IP3 8AA Tel: 08000 565866



1:500 view - underground network

Scanoni

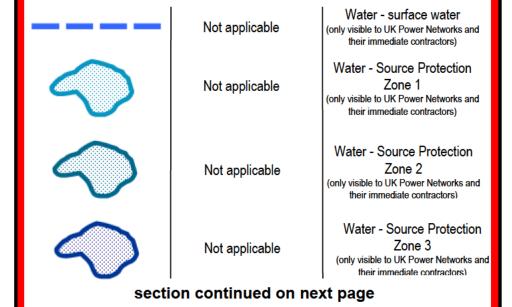
Scenery			
NetMAP system	Scanned image	Description	
		100 metre Ordnance Survey grid line (on 0/5 based maps only.) Property fence line Building line Kerb line	
		Electrical Boundary	

3

Scenery - for UK Power Networks use only - boxed in red

NetMAP system	Scanned image	Description
Inset Network – Contact xxxx IDNO for further information	Not applicable	Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Proposed Cross Rail route (only visible to UK Power Networks and their immediate contractors)
	Not applicable	High pressure pipelines in the general vicinity (only visible to UK Power Networks and their immediate contractors)

Note: Pipelines are only viewable on NetMAP by UK Power Networks staff and their immediate contractors. Do not carry out any excavation without consent from the relevant agency - legally protected high pressure petroleum products pipeline route in the general vicinity - consult www.linewatch.co.uk for contacts and guidance. Pipeline contact numbers can also be found on the intranet – out of hours, contact our Control Centre.

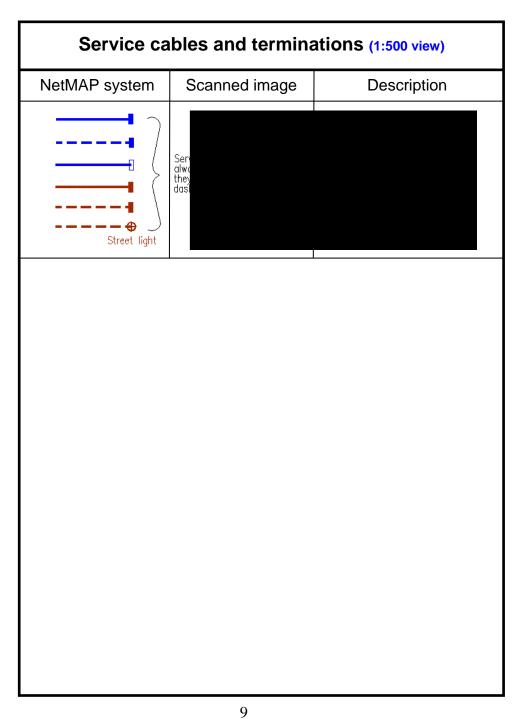


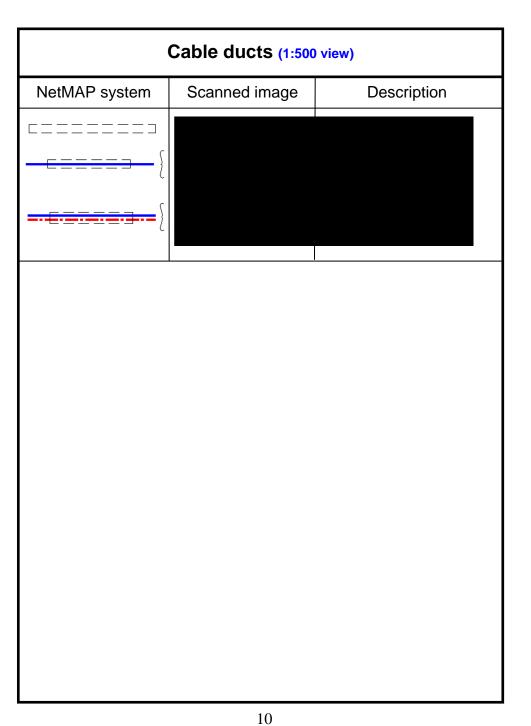
Scenery for UK Power Networks use only - boxed in red			
NetMAP system	Scanned image	Description	
	Not applicable	Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)	
	Not applicable	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)	
	Not applicable	Historical - Areas of Archaeological Potential (AAP) (only visible to E UK Power Networks and their Immediate contractors)	
	Not applicable	Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors)	
	Not applicable	Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors)	
	Not applicable	Nature - Special Protected Area (SPA) (only visible to UK Power Networks and their immediate contractors)	
	AM	Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors)	
section continued on next page			

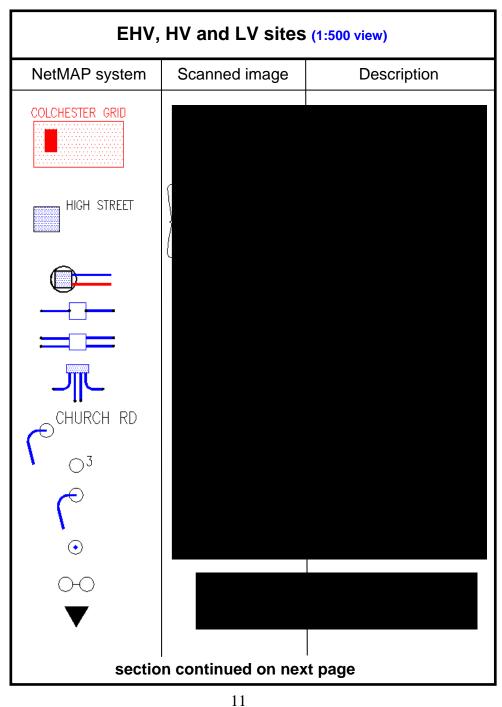
Scenery for UK Power Networks use only - boxed in red			
NetMAP system	Scanned image	Description	
	Not applicable	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)	
	Not applicable	Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors)	
	Not applicable	Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors)	
	Not applicable	Nature - National Park (only visible to UK Power Networks and their immediate contractors)	
	Not applicable	Fluid filled cables - very high sensitivity (only visible to UK Power Networks and their immediate contractors)	
	Not applicable	Fluid filled cables - high sensitivity (only visible to UK Power Networks and their immediate contractors)	
	Not applicable	Fluid filled cables - medium sensitivity (only visible to UK Power Networks and their immediate contractors)	
	Not applicable	Fluid filled cables - low sensitivity (only visible to UK Power Networks and their immediate contractors)	

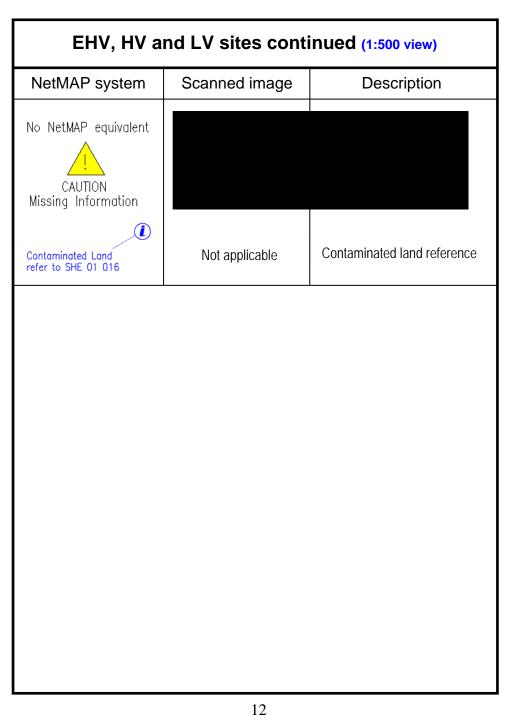
Primary distribution cables (1:500 view)				
NetMAP system	Scanned image	Description		

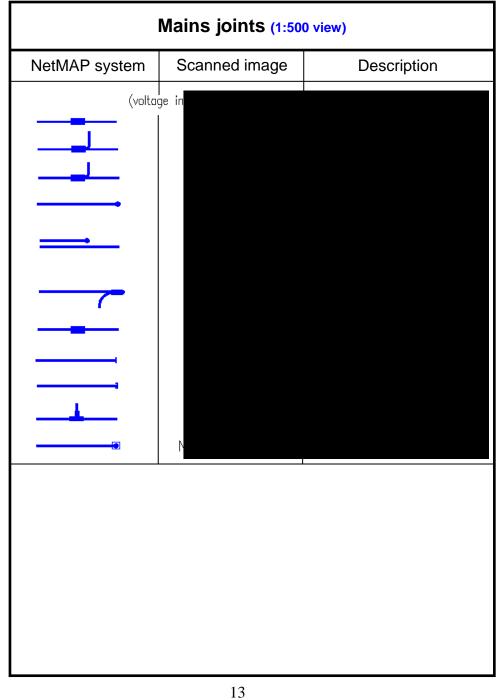
Secondary distribution cables (1:500 view) NetMAP system				
	SOURCES SANS MANAGEMENT SANS MANAGEMENT	Over 230/400V and up to		
		11kV (HV) cable route 230/400V (LV) cable route		
		Pilot cable route		
Abandoned cables a	(Only shown this way if Independent from HV cable route) re shown and labelled as	 		

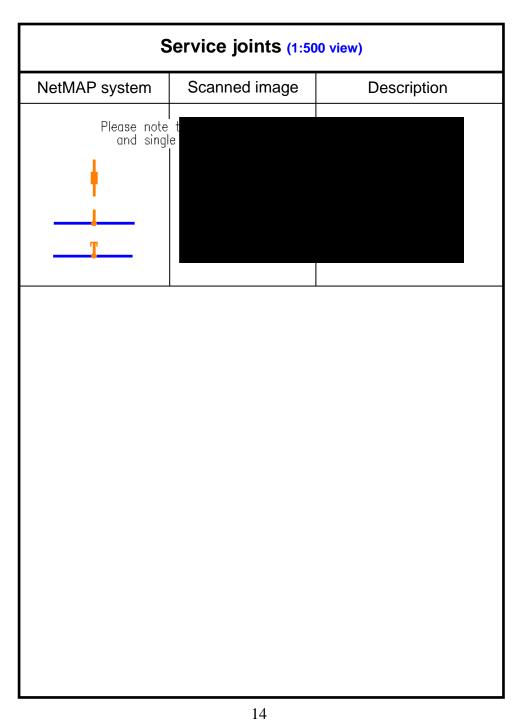


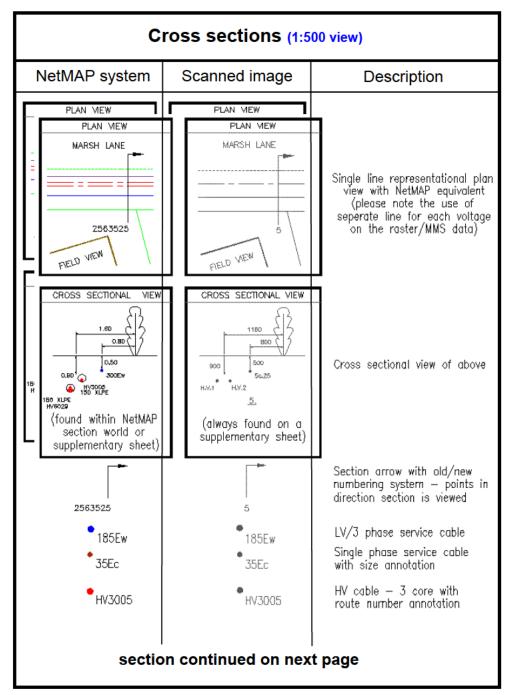












Cross sections continued (1:500 view)			
NetMAP system	Scanned image	Description	
& HV3005	A HV3005	HV cable — modern EPR, Plam and Triplex with route number annotation	
•	•	Pîlot cable	
• HV1023	HV3005	33kV cable	
HV3005	HV3005	132kV cable	
0	0	Single duct	
888	. 888	6 way duct formation — irrespective of duct type and material, all are displayed similarly	
_		Protective slab Tiles	
_		Concrete slabs	
_		33kV fibre warning board	
_	— — т/т	Steel plate Plastic tile tape	
Timber □	IZZZ	Timber	

Common abbreviations and	terminology (all views)
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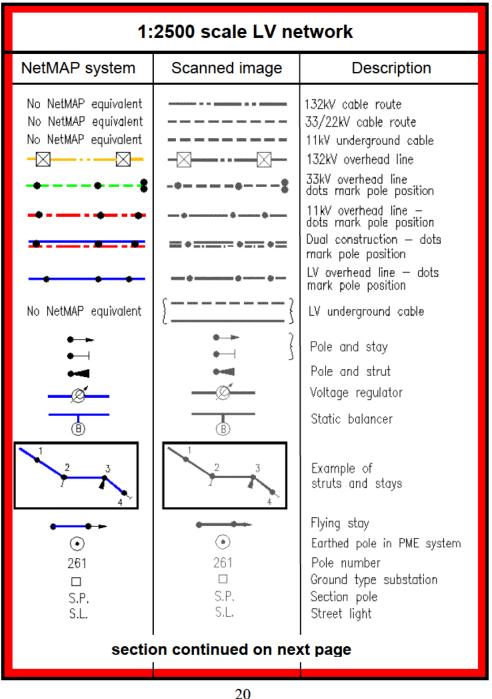
Abbrev.	Description	Abbrev.	Description	
Abbrev. 1c 1ph 2c 3c 3ph ABC ABI ABSD ACCS AI AR ASL ax CB c/c ccc CCT CNE Cross phased CS CSE Cu	Single core Single phase Two core Three core Three phase Aerial bunched (bundled)	Cut out or C/O ox DE DSTA Ea EFI EHV ELCB ELT EPR Ew E/W Fdr or F/G F/P GRP GVR HV HYBRID Insulation Insulator ITC	Meter/main fuse position Triplex (copper) Direct earth Double steel tape armoured Alpex cable Earth fault passage indicator Extra high voltage (11,001 Volts and over) Earth leakage circuit breaker Earth leakage trip Ethylene propylene rubber Waveform cable Earthenware duct or earth wire LV or HV cable fed by or feeding a substation Fuse gear Feeder pillar Fibreglass substation Gas vacuum recloser or pole mounted circuit breaker High voltage (1,001— 11,000 Volts incl) Modern plastic cable with mixed conductor material	
	,•	l .	using Cable Avoidance Tool (CAT) or similar	
	section continued on next page			

Common abbreviations and terminology continued (all views)

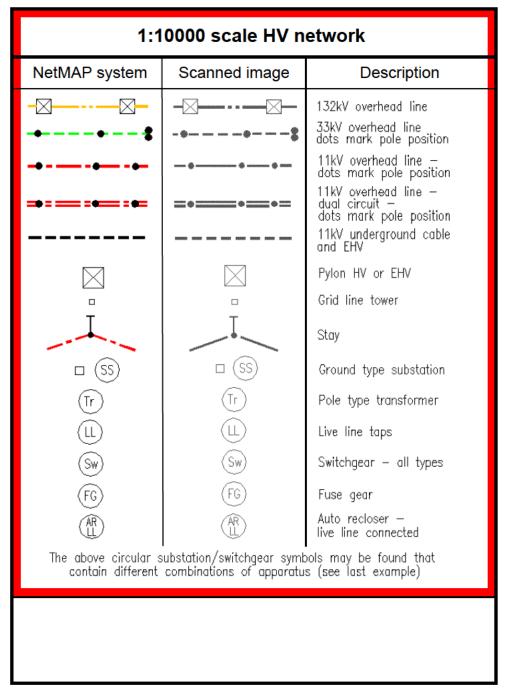
Abbrev.	Description	Abbrev.	Description
Jumper kV kW kVA Link box or LB LSF LV	Connecting lead between open points, section points and overhead plant Kilovolt (or 1,000 Volts) — unit of electrical pressure Kilowatt (1,000 Watts) — unit of electrical power Kilovolt Amps or power Means of connecting LV feeders together using links or fuses Low smoke & fume Low voltage (up to 1,000 Volts incl) Low voltage fuse distribution board Return path of live cable Overhead line Oil filled pole mounted sectionaliser Oil filled pole mounted recloser Pole mounted LV fuse unit Pot end or potential end — joint on cable end Usually the core colour of	Abbrev. PICAS PILC PILSTA PME PMT PMR PYC RMU RN S/L S/S STA T1 T/F Or TX	Paper insulated corrugated aluminium sheath armoured Paper insulated lead covered Paper insulated lead covered steel tape armoured cable Plain lead or public lighting Protected multiple earth or CNE Pole mounted transformer Pole mounted recloser (generic term for OYT/GVR) Pole transformer Polyvinyl chloride Ring main unit Reduced neutral Split concentric or single core Street light Substation Steel tape armoured Substation TX setup where
	a cable (caution — may be cross phased) — Red, Yellow, Blue on old cables, or L1, L2, L3 on new cables, for example	Volts Watts XLPE	Unit of electrical pressure Unit of electrical power Cross linked polyethylene

1:2500 & 1:10000 view - overhead networks - for UK Power Networks use only - boxed in red

General			
NetMAP system	Scanned image	Description	
* •	•	H pole Pale	



1:2500 scale LV network continued			
NetMAP system	Scanned image	Description	
O.R. Stay Ext. Brkt P. Box N.E. O.R. Brkt	O.R. Stay Ext. Brkt P. Box N.E. O.R. Brkt	Outrigger stay Extension bracket Pole box Neutral and earth Outrigger bracket	

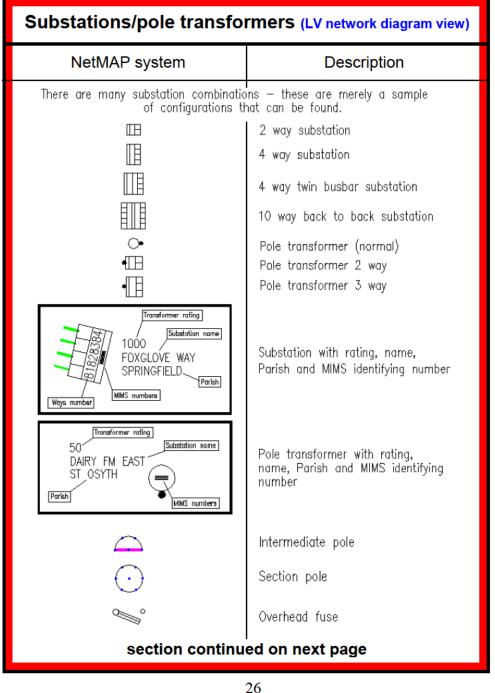


LV network diagram view-for UK Power Networks use only-boxed in red

Overhead lines			
NetMAP system	Description		
	Unknown		
	Al		
	Cu		
	ABC		
	Pole link		

Underground cables (LV network diagram view)		
NetMAP system	Description	
	Unknown	
	Al	
	Cu	
	CC	
	TCC	
	Ea	
	Ec	
	Ecx	
	Ew	
	LSF	
	Other	

Joints (LV network diagram view)		
NetMAP system	Description	
	Pot end or Sicame Box Straight joint Crutch joint 3 phase termination	



Substations/pole transformers cont'd (LV network diagram view)

NetMAP system Description Overview — the purple lines through the section poles are pole links — these indicate how the network is linked together 2 way link box 田 3 way link box \blacksquare 4 way link box 毌 4 way double busbar link box 4 way BICC link box ⊞ 5 way link box 6 way link box 6 way double busbar link box TM1215 A two way link box with identification number, connected to a cable with an open point Feeder pillars - these range from 2 ways through to 9 ways a 9 way and a 2 way are shown as examples