LEGAL PLANS

NGED's guide to the production of legal plans





Use a scale and paper size that best suits the situation

Show the rights being secured relative to existing and any new environment to make it easy to locate the site. [Land Registry like plans to detail at least one road name].

Custom and practice is to use the following scales:

1:500, 1:1250 1:2500

Enlargement/blow-up inserts at any given scale can be used to clarify detail where necessary.

As far as possible produce plans at A4 and A3 as plans bigger than this are problematic to handle, store and manage.



Legal Plans

NORTH POINT

Custom and practice is to orientate plans so that North is to the top of the page and South is to the bottom.

TITLE

This is at your discretion but convention is to use the site address.

DRAWING NUMBER

Provide a unique reference.

REVISION NUMBER

Each time a plan is altered the new version should be allocated a revision number or letter. This is to help all concerned make sure they are using the same version.

SIGNATURE :					
DATE :					
nationalgrid Electricity Distribution	TITLE: • •				
DRAWING NUMBE	R .				
REVISION					
GRID REFERENCE					
DATE •	SCALE 1:500 @ A3				
SUBSTATION SITE/THE PROPERTY (SIDE A-B=FRONT U	,				
	ACCESSWAY				
UNDERGROUND ELECTRIC LINES & ACCESSWAY					
PROPERT	Y TO BE SOLD BY NGED				
LICENCED LAND					
UNDERGROUND ELECTRIC LINES					
OVERHEAD ELECTRIC					
OVERHEAD & UNDERGR					
OVERHEAD & UNDERGROUND ELECTRI					
PROPERTY BOUNDAR					
TOWER/PYLON POSITION	POLE POSITION				
STAY POSITION					
UNDERGROUND CABLE POSITIO	ми				
OVERHEAD LINE POSITION or					
Based upon the Ordnance Surveys map with th of His Majesty's Stationery Office. Crown Copy Electricity Distribution, Avonbank, Feeder Licence No. 1000224	right Reserved. National Grid Road, Bristol. BS2 0TB.				
PLEASE NOTE THAT THIS IS A LEGAL PLAN RELATING TO SPECT OF MORE THAN ONE ASSET/CABLE), SYMBOLS (I.E. TOWERPOLE THIS PLAN IS NOT TO BE USED FOR IDENTIFYING WHERE OUR ASS ANY PLANNED WORKS OR EXCAVATIONS, IF YOU REQUIRE A PLA ASSETS IN PREPERATION FOR SITE WORKS OR EXCAVATIONS, DETAILS. ASSETS SHOWN DEAD OR DISCONNECTED MAY HAVE BEE) ARE INDICATIVE AND ARE NOT DRAWN TO SCALE. ETS HAVE BEEN INSTALLED OR IN CONNECTION WITH N OF NATIONAL GRID ELECTRICITY DISTRIBUTION'S PLEASE REFER TO OUR COMPANY WEBSITE FOR				
	Keyblock Revision 12/09/2022				

New Plan Key

Provides

Simplified text to correlate with the wording used in legal documents.

One colour for each of the land categories used [no cross hatching].

Reference to EMU colours to be used.

Color: 3								
3								

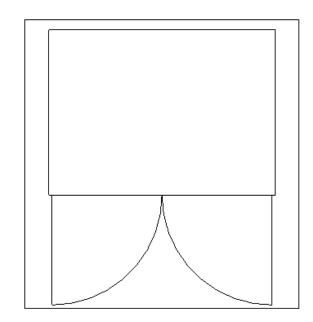
SUBSTATION SITE/THE PROPERTY (SIDE A-B=FRONT UNLESS STATED OTHERW[SE)	5
ACCESSWAY	11
UNDERGROUND ELECTRIC LINES & ACCESSWAY	98
PROPERTY TO BE SOLD BY WPD	17
LICENCED LAND	3
UNDERGROUND ELECTRIC LINES	118
OVERHEAD ELECTRIC LINES	20
OVERHEAD ELECTRIC LINES & ACCESSWAY	13
OVERHEAD & UNDERGROUND ELECTRIC LINES	30
OVERHEAD & UNDERGROUND ELECTRIC LINES & ACCESSWAY	7

Use Symbols to clarify

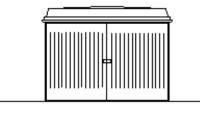
The key advises that they are indicative and not drawn to scale.

THAT THIS IS A LEGAL PLAN RELATING TO SPECIFIC ASSETS (A LINE MAY INDICATE THE POSITION PLEASE SYMBOLS (I.E. TOWFR/POL F) ARE INDICATI ۲F. AND ARF IDENTIFYING WHERE EXCAVATIONS. IF YOU REQUIRE A OR PLAN OF ARATION FOR SITE WORKS OR EXCAVATIONS, PLEASE REFER TO OUR COMPANY WEBSITE FOR DETAILS. LIVE. DEAD OR DISCONNECTED MAY HAVE BEEN RECONNECTED AND SHOULD BF

Des Drawin	ng Tools	;					×	
- Undergr	round Ca	bles —						
US	SV	LV	11kV	33kV	66kV	132kV	Spare Duct	
Overhe	Overhead Lines							
US	SV	LV	11kV	33kV	66kV	132kV	Surf Pilot	
LV	Earth Wires Extend/Insert Vertex LV 11kV 33kV 66kV 132kV							
Equipme			•	LV	•	Inser	t Scale Match	
Substa	Substation Ground Mounted Place							
Highligh	Textbox Text & Rotate Clipboard Paste Reset Scale/Angle Highlight Des Preset Highlights							



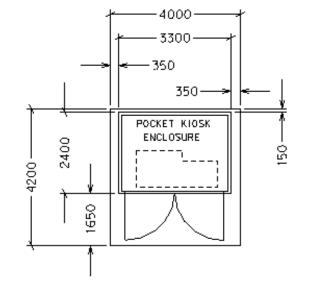
Confirm the size of the site.



FRONT ELEVATION

A POCKET KJOSK TYPE SUBSTATION TO BE INSTALLED OF APPROX. DIMENSIONS 3112 × 2264 × 2250 HJGH ON A CONCRETE BASE 3300 × 2400 WITHIN A 4200 × 4000 PAVED SITE AREA FOR OPERATIONAL & MAINTENANCE PURPOSES.

PLANNING :- PERMITTED DEVELOPMENT

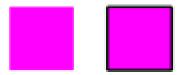




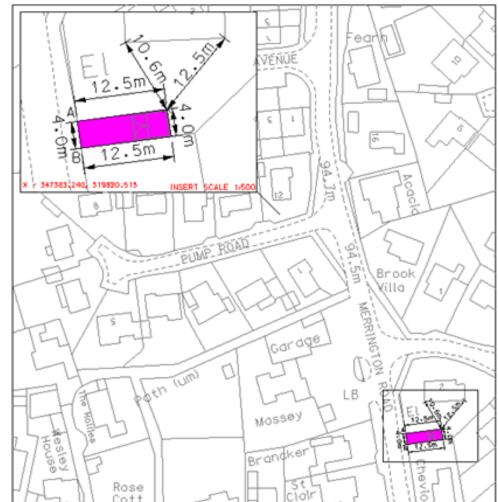


Property is to be shown

Coloured pink [EMU colour palette no 5] and may be edged black.

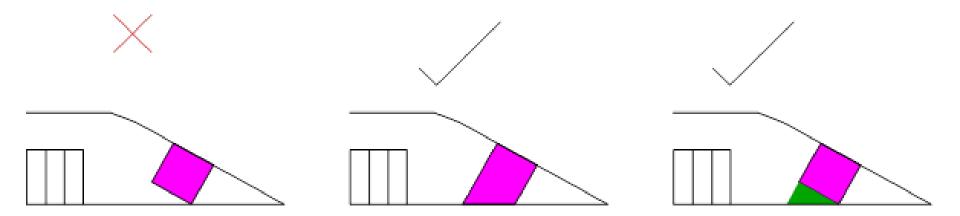


True to scale[use insertsif necessary]



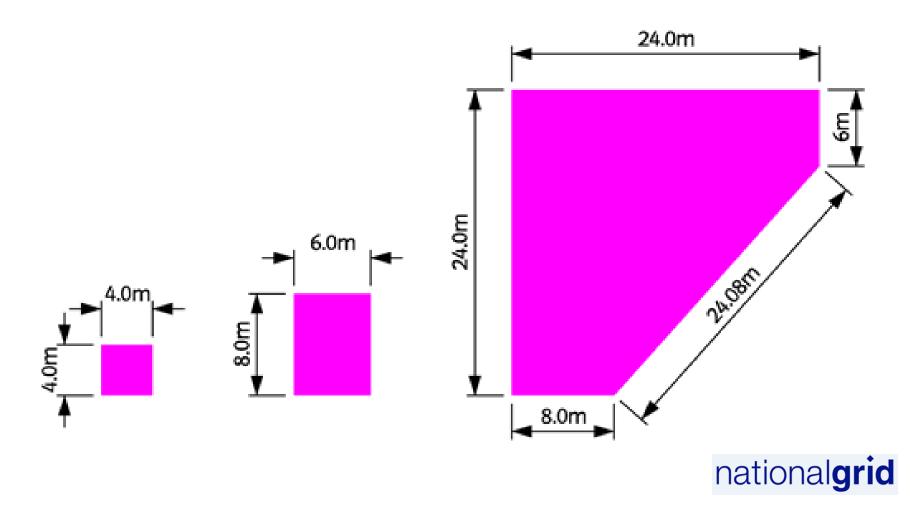
Positioned square to the back edge of the adopted highway.

If this is not possible, either extend the area of the site to be acquired or cover the area between the site and the highway with an access or combined cable and access easement.





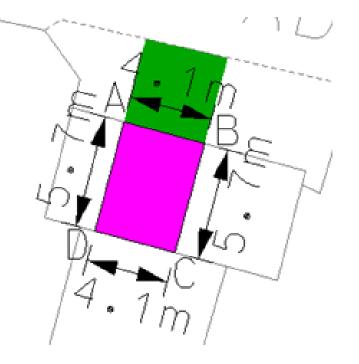
Dimensions should be detailed next to the relevant site boundary.



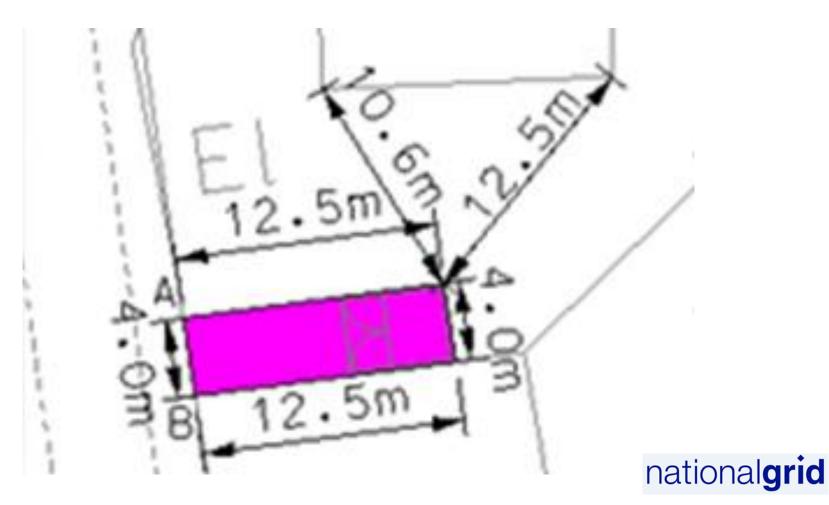
Annotate corners with letters, with side A-B to be the front of the property with the main site access.

If the plan is cluttered it is acceptable to just use letter A and B to confirm which side is the front.

SUBSTATION SITE/THE PROPERTY (SIDE A-B=FRONT UNLESS STATED OTHERWISE)



If appropriate show offset distances.



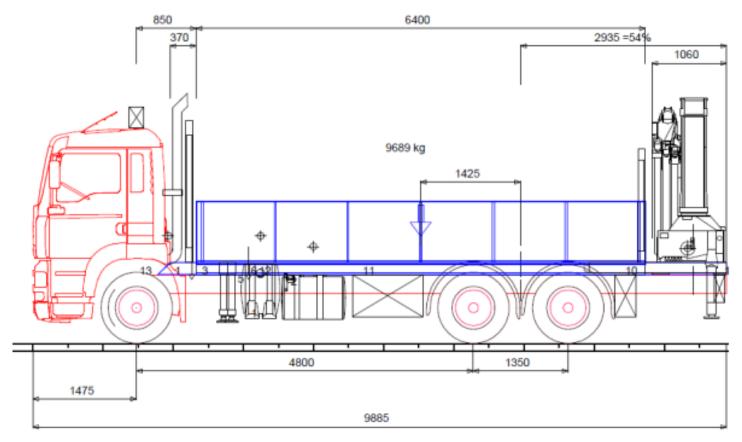
Confirm the access requirements

Accesses should:-

- Be physically possible, that is of sufficient width and height to accommodate a vehicle and its load.
- Extend uninterrupted from the property to the currently adopted highway.
- Cover both sides of the road to allow access to the site and back to the highway.
- ✤ Allow room for a vehicle to be parked next to the site.
- ✤ If necessary allow a vehicle to be turned around.
- Take into consideration one way systems.
- ✤ Allow an area for unloading.



We use Lorries of up to 26 tonnes to transport secondary network plant to site [dimensions in mm]



In simple terms they are 9.9m long.

In terms of width they are approximately:-

- 3m wide mirror to mirror
- 2.5m wide side to side [load bed]
- ✤ 6m wide when the stabiliser legs are fully extended

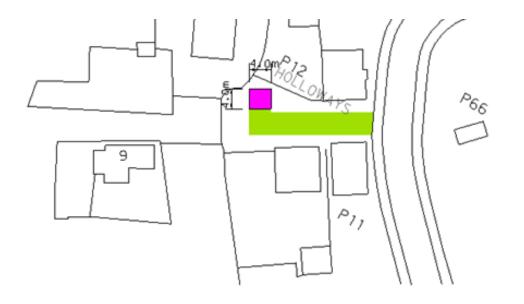
In terms of height they are:-

- ✤ 3.81m tall
- 1.37m from ground level to the top of the load bed [consider the size of what might be delivered to site]



The standard for access to distribution sub stations is specified within Standard technique NCIV/2 and states that access should:-

- ✤ be a minimum of 3m wide
- ✤ have a minimum unloading area by the substation of 3m x 3m
- Access only easements/access-ways are to be shown using light green [EMU colour palette number 11]



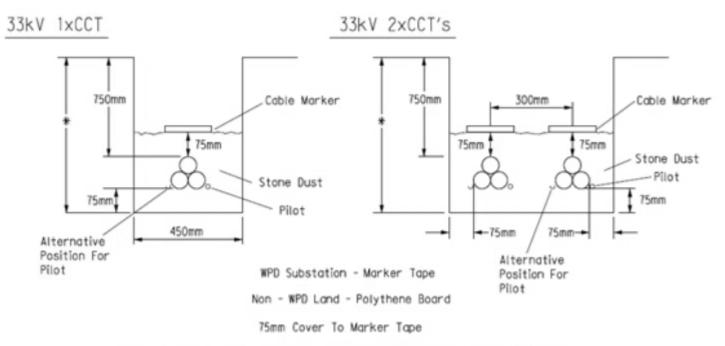
Accesses to primary sites may need to accommodate very large vehicles and weight is likely to be a consideration. Details of our requirements can be found in the Engineering Design Manual but the basics are

- ✤ 4.5m wide
- Minimum internal radius of 6.0m and minimum external radius of 13.5m on corners



Confirm the size of the easement.

Have due regard to Standard Technique CA6A/4 relating to the installation of underground cables and the width of the cable trench.



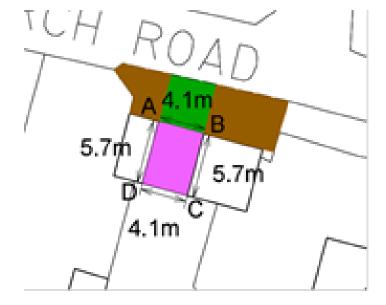
75mm 3mm To Dust,Limestone Or Granite Fine Stone Dust Bedding & Blinding

Our cable rights are currently made up of two component parts:-

- A right to lay cables in the area/along the route of the line shown coloured brown [EMU colour palette number 118].
- A zone of protection to include the are shown coloured brown and "x" metres either side of it.
 - LV to 33kV, 2.0m either side of the area coloured brown.
 - 66kV to 132kV, 3.0m either side of the area shown coloured brown.



1.0m WIDE POSITION INDICATIVE

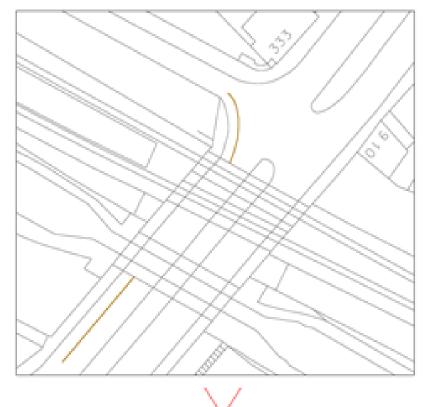


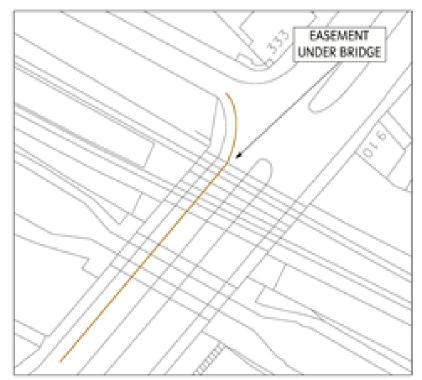
Cable easements can be drawn true to scale [ie when multiple cables are associated with a substation] or using an indicative line, [ie long linear runs of network].

When appropriate it is best to annotate both with dimension detail especially if they are not defined by physical features.

Try not to mix true to scale detail with indicative detail as it can get a little confusing.

When cable easements run over and / or cross under a bridge or an archway the easements should be drawn as if the arch or bridge were not in situ but in such a way that it is still visible and annotated to state whether the easement runs over or under the bridge/archway to clarify the situation.







Overlapping Cable And Access Easements

If a Cable Easement is to cross an Access Easement combine them as a dark green [EMU colour palette number 98] Cable and Access Easement.

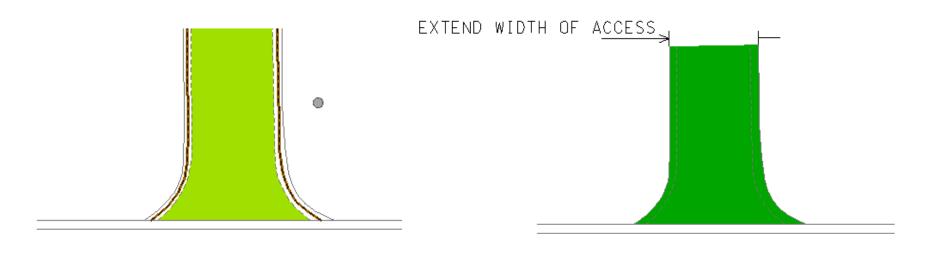
A combined cable and access easement provides greater flexibility.





Combined Cable And Access Easements

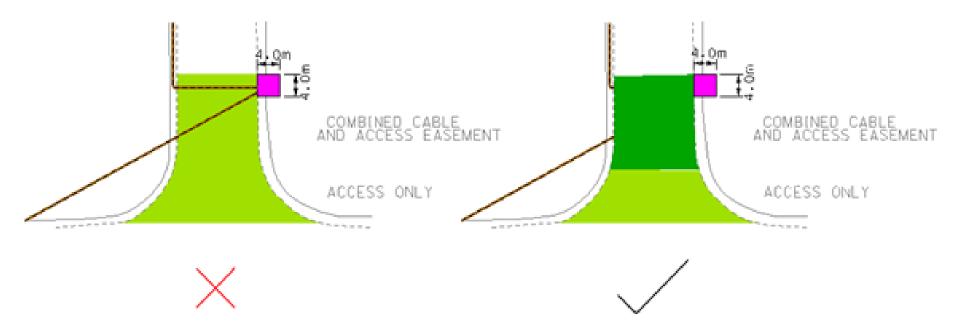
Similarly if we require an access easement along a road and a cable only easement within a footway that runs parallel to the road covering both with a cable and access easement is simpler and provides a greater flexibility.





Combined Cable And Access Easements

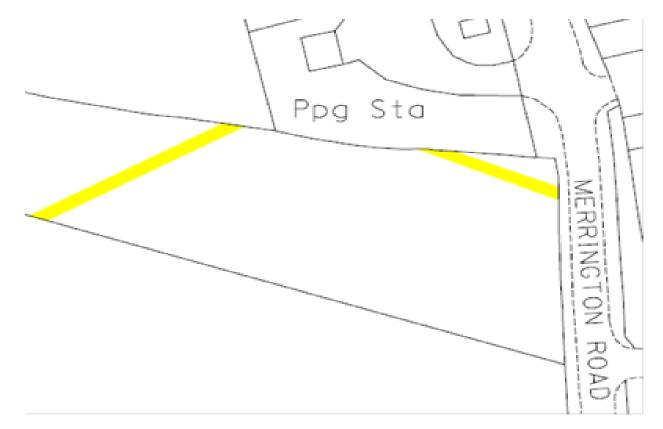
It is accepted that it may be necessary to cover only that part of the access, which is crossed by cables, with a combined cable and access easement.





Overhead Line Easements

Our deeds give us the right to place and maintain overhead lines in the position shown by an indicative yellow line [EMU colour palette number 20]. It is not necessary to detail pole, stay and or tower positions.



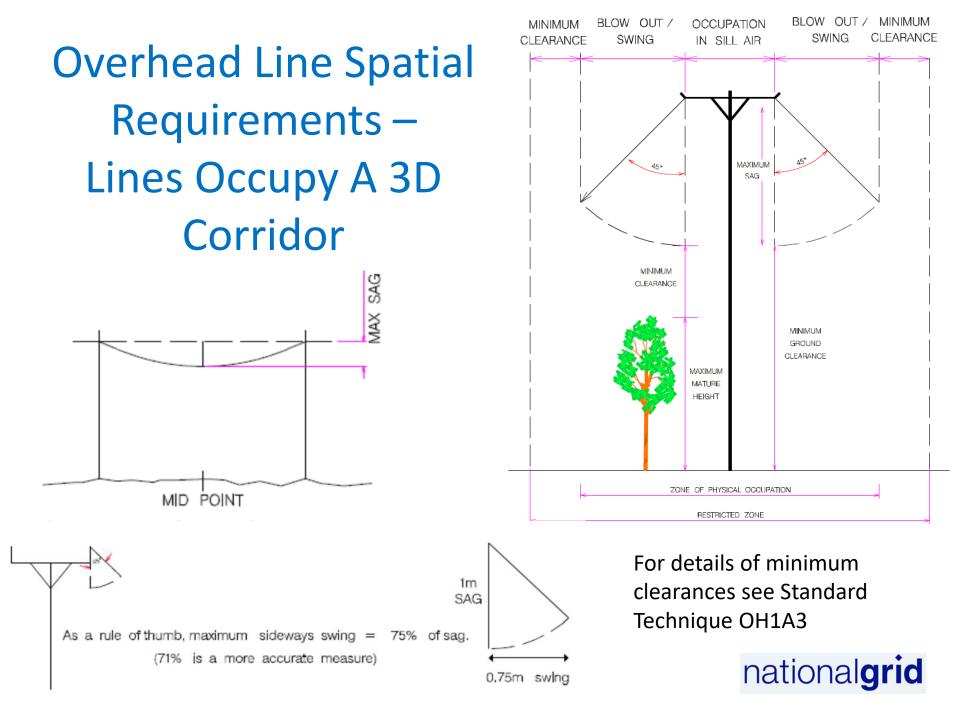


Overhead Line Easements

Easements are indicative and out of necessity based on a still air position as overhead electric lines sag / stretch and contract and swing / blow out [move up and down and side to side], with the amount of movement affected by:-

- Construction tensions
- The type and size of conductor
- Where the line is relative to the adjacent supports
- Ambient and operating temperatures
- Ice loading
- Wind strength and direction





Property Boundaries

Boundaries should:-

- Only be detailed if absolutely necessary
- Be shown as a red solid line
- Not contradict any boundary detail held by Land Registry

