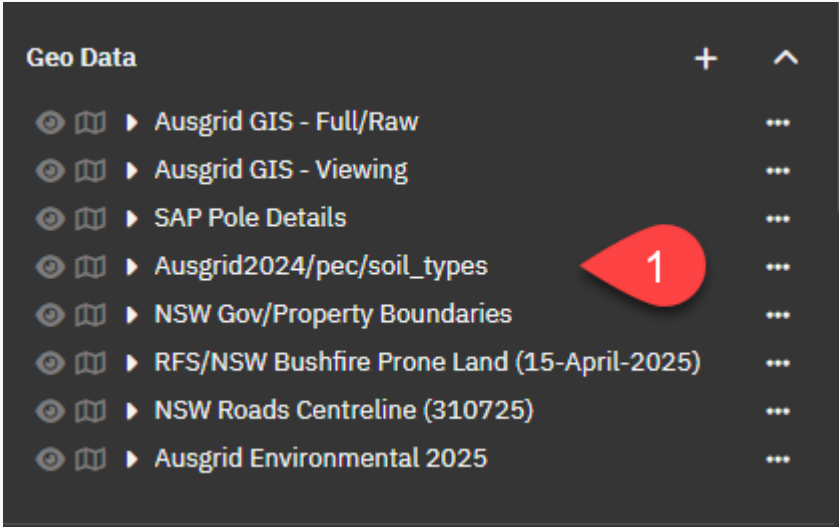
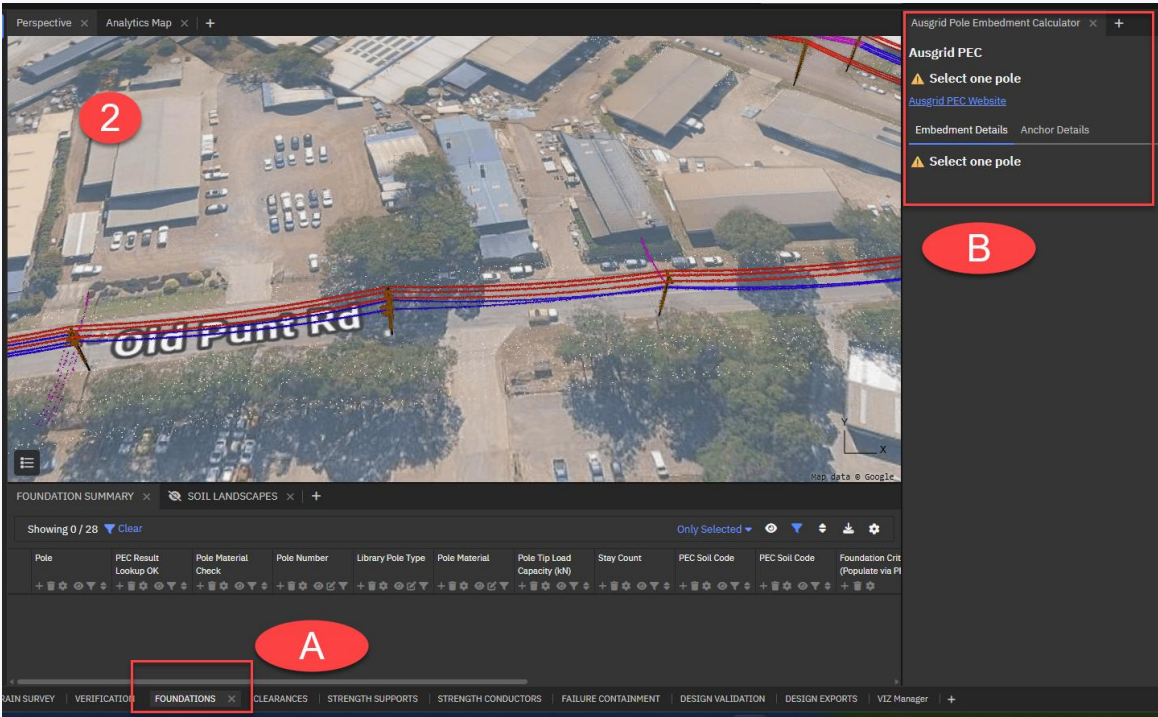


A simplified version of Ausgrid’s WebPEC has been built into the Ausgrid design template within Neara. In many scenarios this tool will be adequate for most designs, however when the additional functionality is required, storage of designs, and the creation of reports, it is expected that the designer will still utilise the standalone version of WebPEC to complete the requirements of the foundation design. This includes, when a ground slope is encountered, water tables are identified or customised soil properties are required to be defined by the designer.

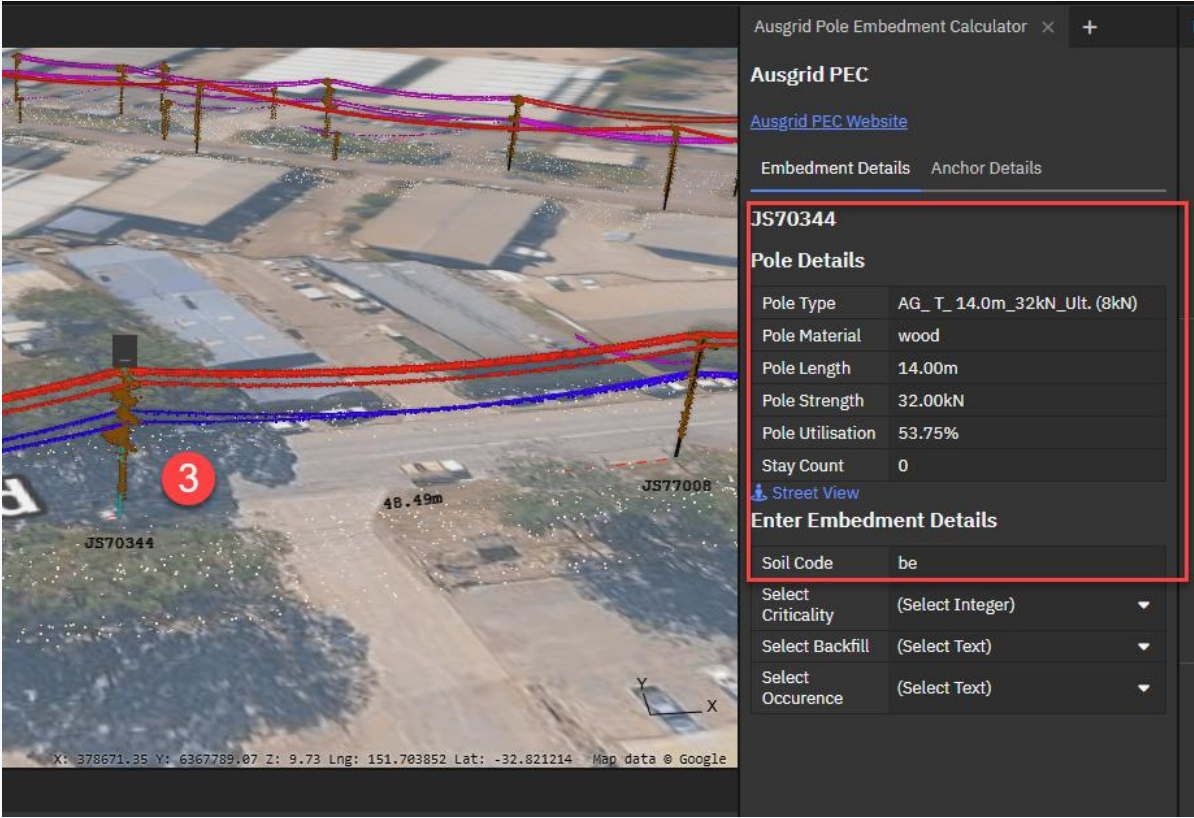
1. The Neara PEC tool
- utilises the geo data layer
- “Ausgrid2024/pec/soil_types”.
- This layer is loaded
- into the default design
- template. Ensure this layer
- is loaded when utilising
- this tool.



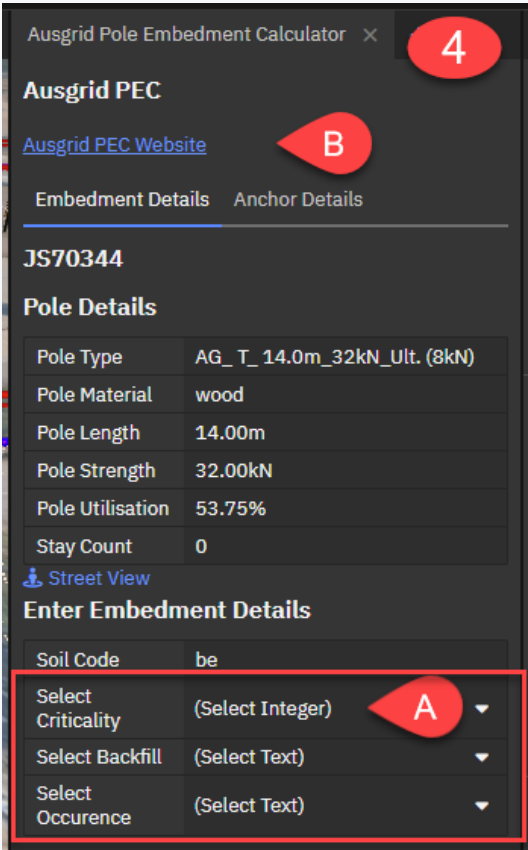
2. The Neara PEC tool is located within the FOUNDATIONS workspace tab (A).
- When you click on this workspace,
- an additional screen will appear
- alongside the perspective view
- labelled 'Ausgrid Pole Embedment Calculator' (B).



3. Select a pole (only one pole at a time can be worked on). The “Ausgrid Pole Embedment Calculator will populate the pole details and soil code automatically.



4. Select the criticality, backfill and occurrence, as you would in the WebPEC calculator (A). For further guidance into these fields, refer to the WebPEC User manual (B).



5. After the embedment details are populated, the required embedment for that pole type, in that soil code will return a value. Neara will use the Ultimate value. To accept the return embedment values, click on the “Record Embedment Details”.

Note: If a pole due to its size is not suitable for that soil type, the embedment values will be set to 0.00m. In this instance, user can change pole type or use the standalone version of WebPEC to resolve.

Required Embedments	
Ultimate	0.00m
Serviceability	0.00m
Sustained	0.00m
Max	0.00m

If a pole type is not an Ausgrid standard pole, no embedment calculation is returned. User will need to update pole to a standard pole size.

Enter Embedment Details

Soil Code	mf
Select Criticality	1
Select Backfill	Cement Stabilised
Select Occurence	Generally

Ausgrid Pole Embedment Calculator

Ausgrid PEC

[Ausgrid PEC Website](#)

Embedment DetailsAnchor Details

JS70344

Pole Details

Pole Type	AG_T_14.0m_32kN_Ult. (8kN)
Pole Material	wood
Pole Length	14.00m
Pole Strength	32.00kN
Pole Utilisation	53.75%
Stay Count	0

Street View

Enter Embedment Details

Soil Code	be
Select Criticality	1
Select Backfill	Site Spoil
Select Occurence	Drainage

Required Embedments

Ultimate	3.00m
Serviceability	2.69m
Sustained	2.25m
Max	3.00m

Record Embedment Details

Record Embedment Details

5

6. A summary of the embedment details will appear (A). A delta distance is calculated between the sink depth of the pole in the model and the required embedment (B). When a delta exists, an “Update Sink Depth” button will appear to allow you to update the sinking depth of the pole in the model to the calculated required embedment. Users should be aware that the heights of conductors etc. will be impacted when updating the sink depth.

Required Embedments

Ultimate	3.56m
Serviceability	2.88m
Sustained	2.38m
Max	3.56m

Record Embedment Details

Record Embedment Details

Reset Embedment Details

Required Embedment	3.56m
Criticality	1
Backfill	Cement Stabilised
Occurence	Generally

Modeled Sink Depth

Required Embedment	3.56m
Required Sink Depth (formula)	2.00m
Required Sink Depth	3.56m
Modeled Sink Depth	2.00m
Delta	1.56m

⚠ Update Sink Depth

