



Excellence in foundations

Foundation
Technologies
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Modern Foundations for Construction



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Footings - Then

There are a range of footings.

These have been in the form of

- Blocks
- Stumps
- Strip Footing
- Slabs
 - Conventional Raft
 - Waffle Slab

Name of this Foundation



Footings - Then

Accuracy has always been a major issue

Spacing of footings

Ensuring footings exist

Collapsing soils

Water ingress into excavations

Movement over the life of the structure

Ability to adjust over the life of the structure



@thehandylegend
The Handyman

If there was a page dedicated to
handyman videos



Important considerations

Climatic zone

- Reduce seasonal movement

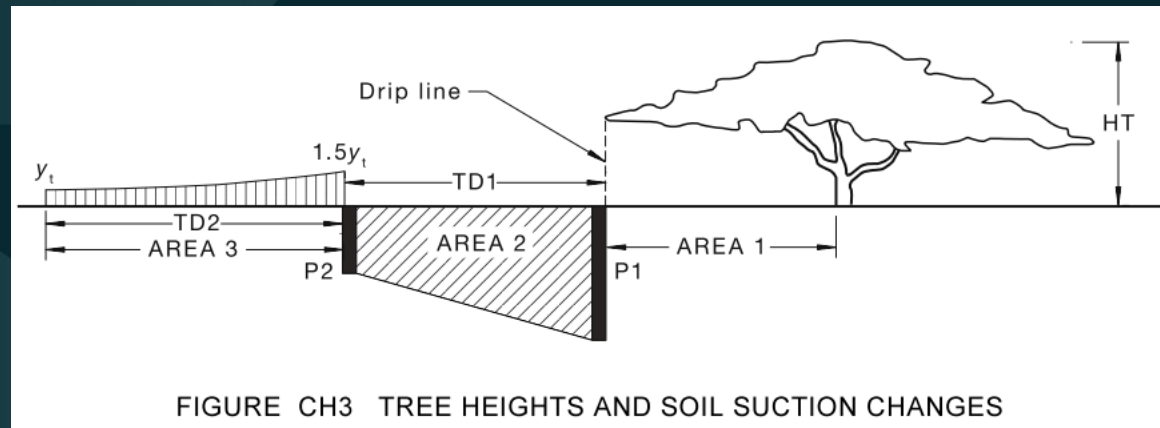
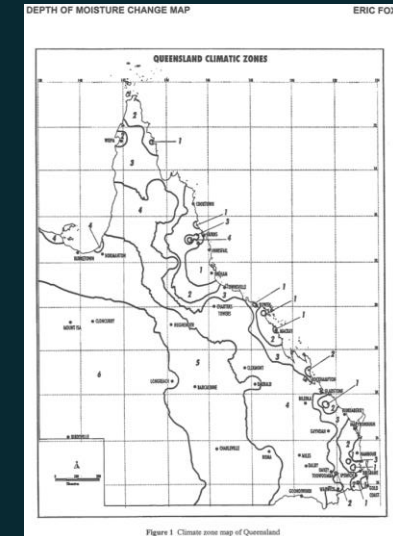
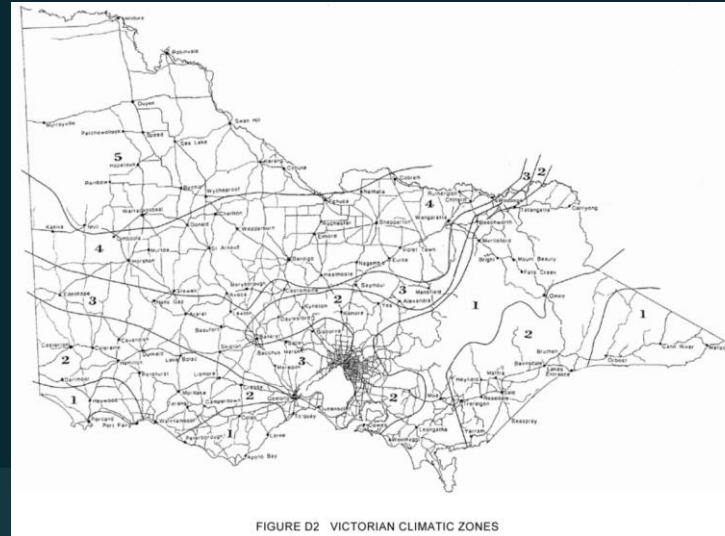
Nature of founding soils

- Depth of fill material
- Bearing stratum

Potential for undermining

Accounting for drying effects of trees

Accuracy in construction



Helical Screw Piles

Light weight footing

Installed by screwing into the ground

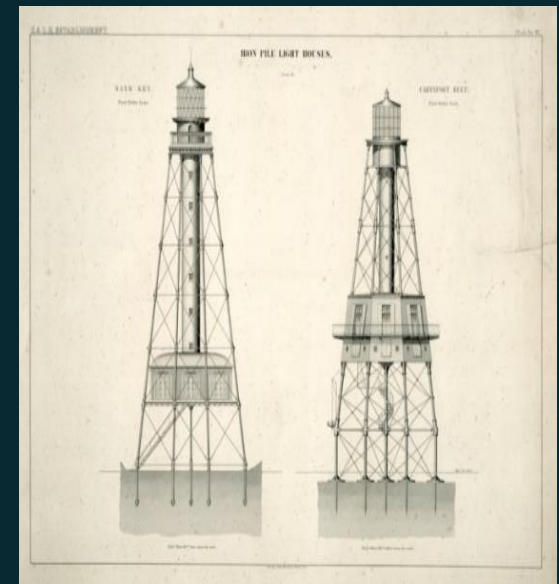
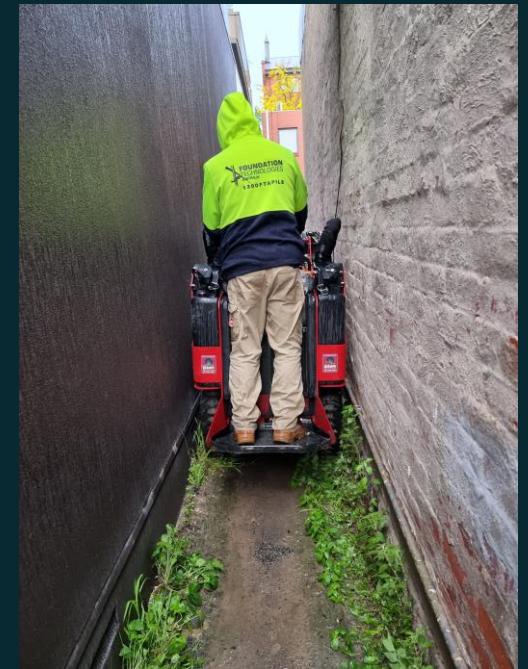
No pre boring

No soil to be disposed of

Nearly no wasted pile

Can be installed in near inaccessible sites

Can be used for small structures up to 3 to 4 storey



Helical Screw Piles VS Others

The definition of a Helical screw pile having only one leading edge and a consistent pitch

Has been proven to offer less soil disturbance than what is in the industry called a “DUCK BILL” pile.

Other designs that have multiple leading edges will disturb the soil more

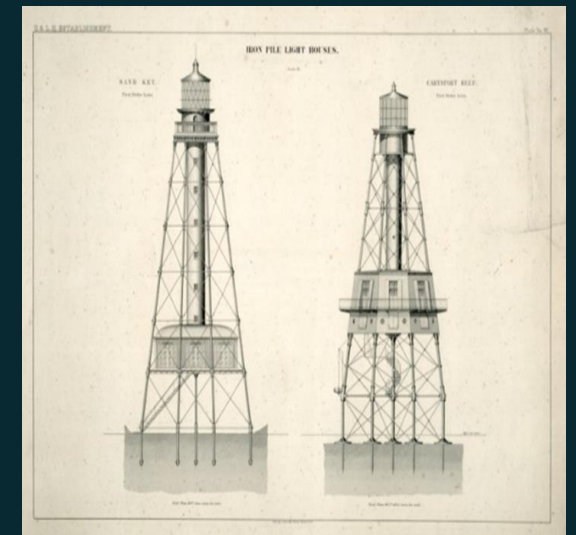
Auguring or greater disturbance of founding material allows the ingress of water

A true helical shape has greater strength than other shaped bearing plates



Benefits of Helical Screw Piles

- Long track record (have been used since 1833)
- Ease of establishment
- Compliance
- Accuracy
- Reduction in soil disturbance
- Speed of construction
- Reduction in reactive movement
- Controllable costs
- Suitable for design for manufacture and disassembly
- Benefits within the circular economy



OTHER DESIGNS

- Modular
- Underpinning
- Shoring
- Sleeper Retaining Wall
- Other

MODULAR



UNDERPINNING



SHORING



SLEEPER RETAINING WALL



OTHER



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