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**FLI** structures

Gantries &  
Staging Platforms



## Gantries: Simple, Fast, Safe.

Reduce installation cost  
Lower installation risk

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# Signal Gantries

## Faster and Safer Installation



Portal Gantries  
Cantilever Gantries  
Straight Posts

Cantilever columns are installed at a raking angle so when fully assembled and loaded, the boom is level. Our gantry columns have pre-calculated guide bars so installation needs nothing but a spirit level.

Our dropper cages never stick or have to be forced into position. Neither do they require an elevated platform to bolt them on. They have swing catches so can be simply lifted into place. That position can be adjusted in all directions and the cages then bolted home by installers on the boom walkway.

FLI gantries use Tension Control Bolts. These reduce the time spent on inspection and maintenance.

The sub-assemblies have lifting lugs, positioned so that they lift at the correct angles for installation.

Extensive pre-assembly reduces the number of sub-assemblies and components on site.

The OLE mesh is fixed to the sub-assembly before painting. This eliminates the need for copper tape electrical connectors on the finished structure.

Cable trays are internal so that more cable installation and checking can happen, again without the need for a mobile elevated work platform.

# Signal Gantries Modular Systems



FLI signal structures are modular systems which deliver short design lead times and competitive prices.

Form 003 approved and in use on Network Rail Infrastructure.

Leg height and boom length options.

Ladder and dropper cage options.

FLI design gantries and foundations as a system, reducing risk from supply chain and programme.



### Laydown Platforms for Lightweight Signal Posts.

Platforms for laying down hinged signal posts on sloping sites.  
Any length of platform for any height of signal.  
Foundation of just two screw piles.  
Complete install in a single shift.  
Form 003 approved.

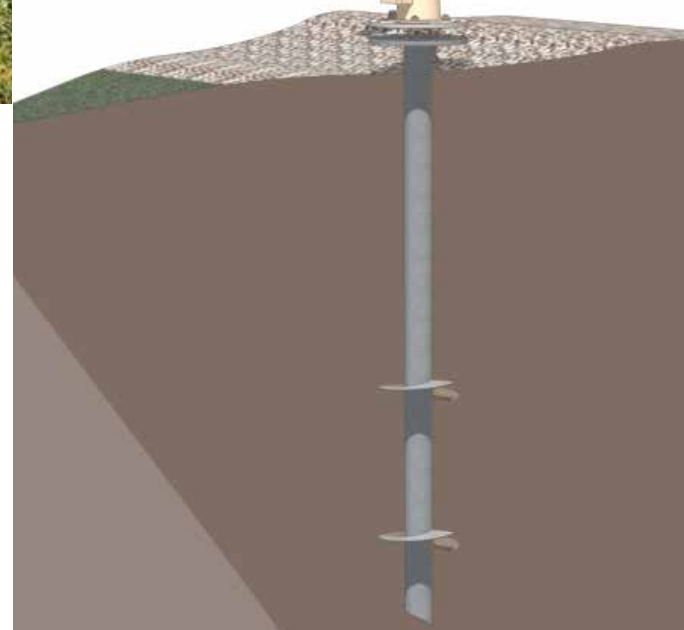
# Lightweight Signal Post Foundations



Lightweight Signal Post  
Rapid Deployment  
Foundations.

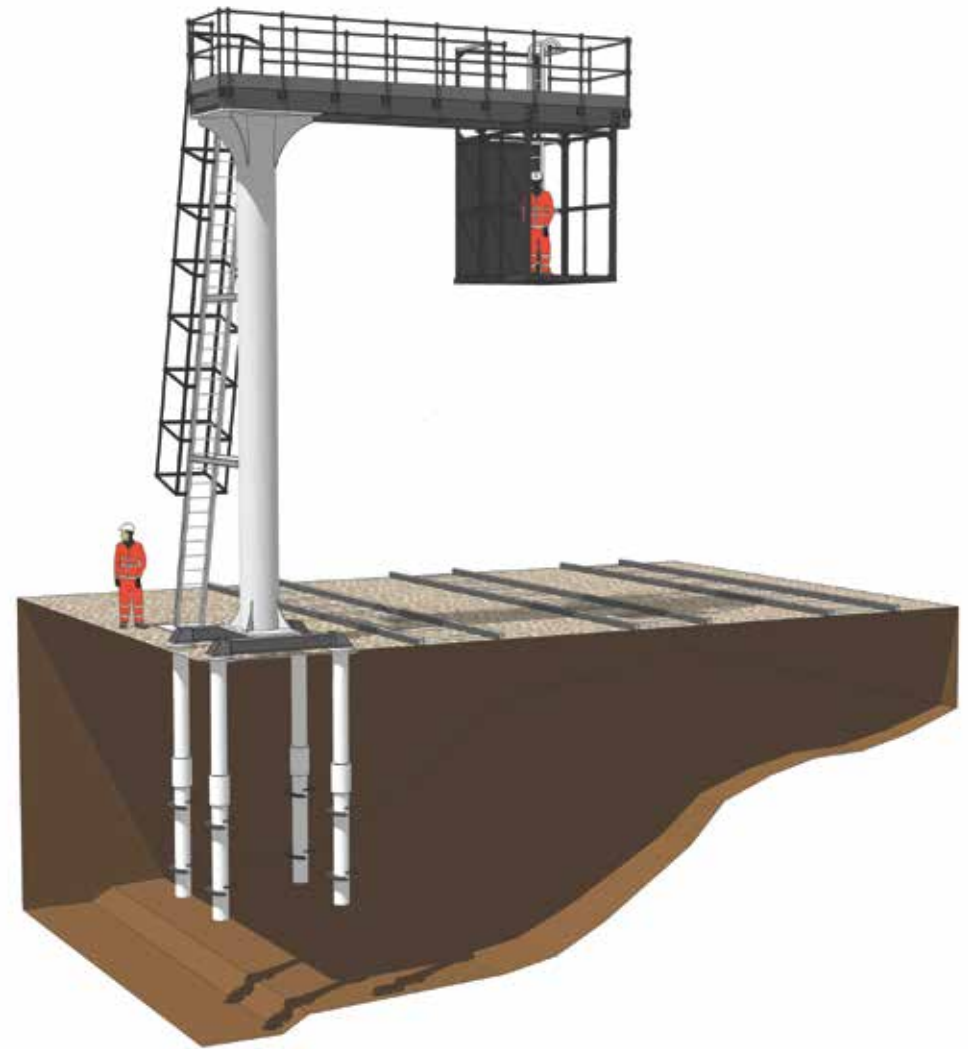
Mounted on a single screw pile.  
Suitable for level & sloping sites.  
Install several in a single shift.  
Form 003 approved.

Screw piles remove the need for  
concrete foundations, are installed  
in minutes and can be removed or  
relocated just as quickly.



# Advantages Of Screw Pile Foundations.

Fast installation, typically a single shift.  
No concrete so no curing time, small footprint, helpful on restricted sites.  
Cost effective solution in soft ground, on site flexibility, bridging services.  
Installation possible in low temperatures.  
Fewer possessions required for faster installations, less time on site enhances safety.  
Lower carbon footprint than concrete, 100% recyclable.



## Benefits of a gantry and foundation designed as a system:

- Deflection efficiency shared between the gantry and the foundations.
- Fewer interfaces so installation is easier to sign off.
- Smaller foundations, reducing cost.
- Reduces programme time.
- Enhanced overall safety with reduced risk of harm to installation crews.

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# LOC Platforms

Faster & safer installation.



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Network Rail approved designs: Form 2 & 3 (A & B)

Cantilever designs for multi-LOC platforms only require four piles.

Choice of H-Pile, Screw-Pile or Single Pile mounting.

GRP hybrid option.

'Mini' LOC offers savings over standard design.

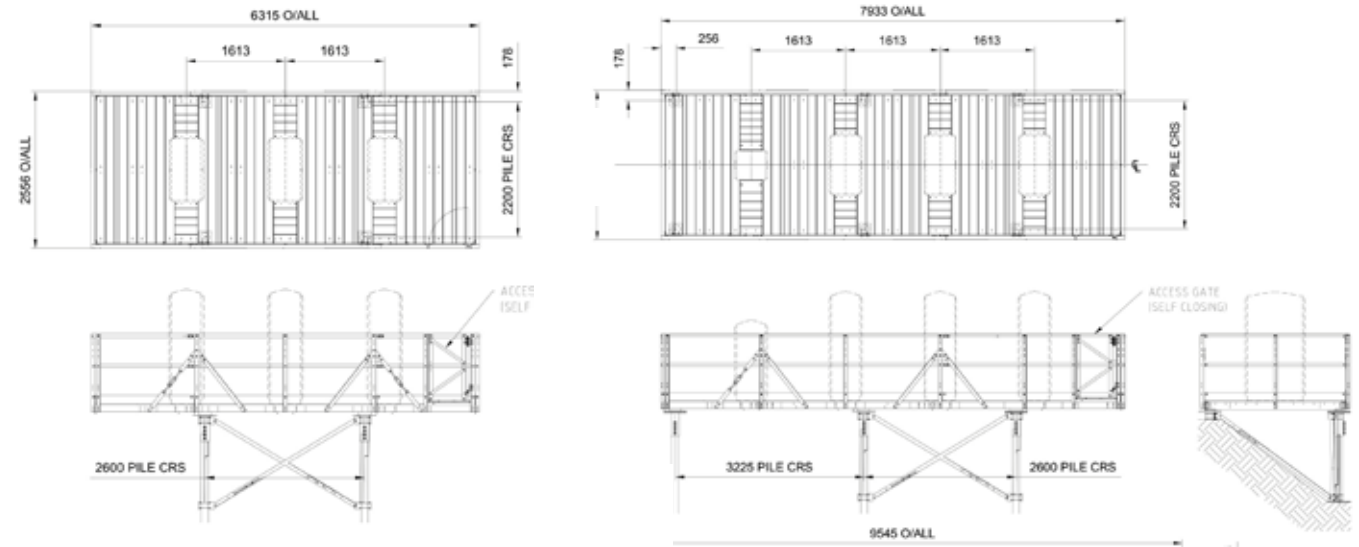
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## Fewer Piles

FLI's multi LOC platforms cantilever off a 4 pile platform.



FLI's Double and Triple Cabinet LOC Platforms can be cantilevered off the sides of our standard single cabinet platform without any need for additional piles. 6 piles fewer than a standard design, saving an RRV shift.

Our standard Quad LOC Platform uses 6 piles rather than the standard 10.



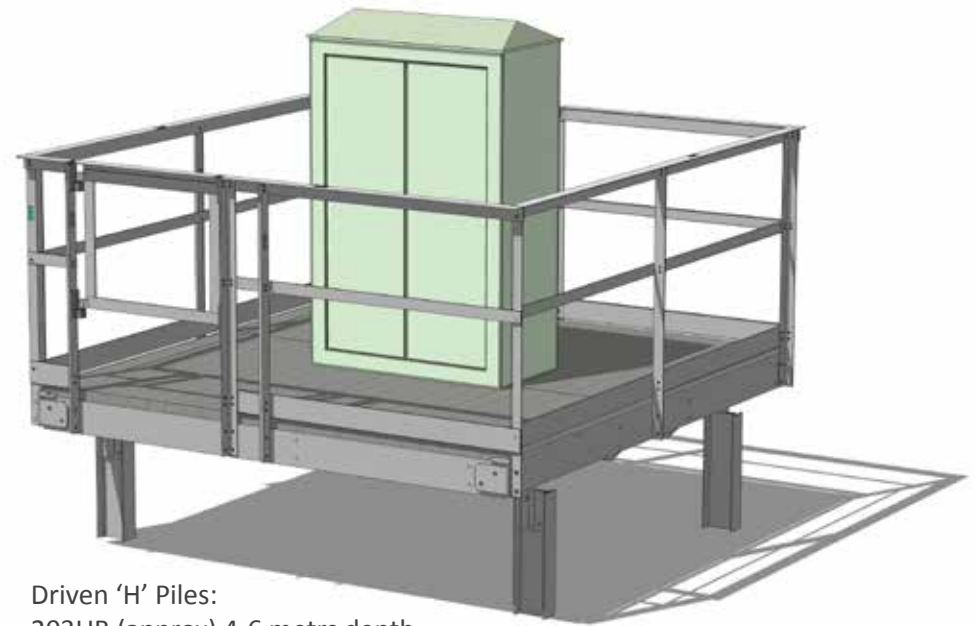
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## Foundation Options

Lowest cost solutions for any  
ground conditions.



Driven 'H' Piles:  
203UB (approx) 4-6 metres depth.  
Low cost and fast installation.

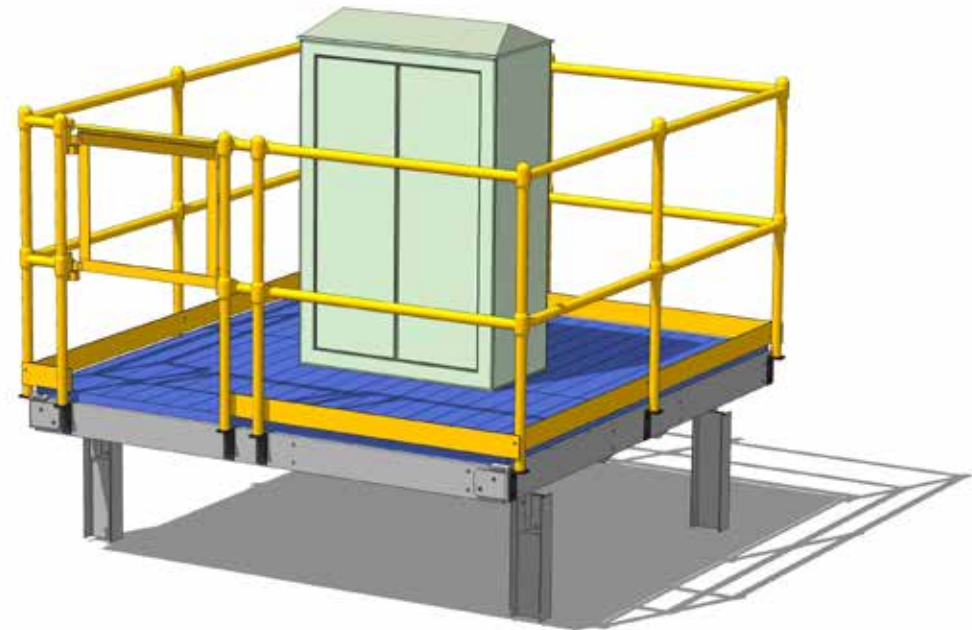
Screw Piles:  
Single Pile, 355mm diameter.  
Avoiding or bridging services.  
Multiple Piles, 114mm diameter.  
Fast installation on steep slopes or soft ground.

Concrete:  
Interfaces for traditional concrete foundation.



# FLI's GRP LOC's

Low cost non-conductive platforms.



Limiting the application of GRP to the areas of possible contact on the finished platform keeps the rise in price associated with non-conductive structures to a minimum.

GRP Handrails

GRP Gate

GRP Flooring

Steel Frame & Piles

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# Staging Platforms

Off the shelf designs for  
all applications.



REB Staging

Signal staging

LOC Platforms

PSP Staging

Lay-down Platforms

Refuges

# Standard & Mini

Reducing cost with smaller platforms.



FLI's Mini LOC Platform offers a 20% cost saving over standard designs with the floor area at the back of the cabinet reduced from 700mm to 150mm.

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