

DESIGN · SOIL IMPROVEMENT

Foundation Engineering







Pile, raft, and shallow foundation design; ground improvement strategies; retaining structures; and specialist geotechnical engineering for demanding Kuwaiti ground conditions — every design backed by our in-house laboratory data and signed off by senior chartered engineers.



Since 2004 · Eurocode 7 & BS 8004 · ACI 318 · PLAXIS 2D/3D · Chartered engineers

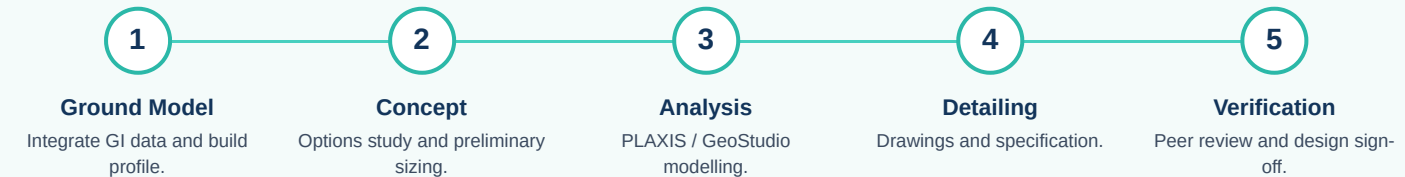
Foundations that engineers can sign with confidence.

Vision International provides specialist **geotechnical design** to developers, EPC contractors, and consulting engineers — delivering pile, raft, and shallow foundation solutions, soil-improvement strategies, retaining structures, and complex soil-structure interaction analysis. Every design is calibrated to Kuwaiti ground conditions using our **in-house ISO 17025 laboratory data**, analysed in licensed PLAXIS 2D/3D and GeoStudio, and reviewed by senior chartered geotechnical engineers before release.

 <p>Pile Foundations</p> <p>Bored, driven, CFA, and micropile design with axial, lateral, and settlement analysis per Eurocode 7.</p>	 <p>Raft & Shallow</p> <p>Raft, strip, pad, and combined piled-raft foundations with bearing capacity and settlement checks.</p>	 <p>Ground Improvement</p> <p>Dynamic compaction, vibro stone columns, jet grouting, permeation grouting, and deep soil mixing.</p>
 <p>Retaining Structures</p> <p>Sheet-pile, diaphragm wall, secant pile, soldier pile, and anchored-wall design for deep excavations.</p>	 <p>Slope Stability</p> <p>Limit equilibrium (Bishop, Janbu, Morgenstern) and finite-element analysis for embankments and cuts.</p>	 <p>Seismic & Dynamic</p> <p>Site response analysis, liquefaction screening, and foundation-dynamics analysis per Eurocode 8.</p>

HOW WE WORK

From Ground Model to Signed Design



Difficult ground conditions on your project?

Senior chartered engineer review within 5 working days · Design-build or design-only scopes.

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Full Foundation Design & Soil Improvement Offering

Eurocode 7 · BS 8004

ACI 318

PLAXIS & GeoStudio

Chartered Engineer Sign-off

FOUNDATION DESIGN

- Pile foundations (bored, driven, CFA, micropile)
- Raft and combined piled-raft design
- Strip, pad, and shallow spread footings
- Pile load test supervision and interpretation
- Laterally loaded pile analysis (L-pile)
- Scour and erosion protection design
- Design per Eurocode 7, BS 8004, ACI 318

GROUND IMPROVEMENT

- Dynamic compaction design
- Stone columns and vibro-replacement
- Jet grouting and permeation grouting
- Preloading and vertical drains (PVD)
- Deep soil mixing (DSM)
- Compaction grouting and micropile networks
- Instrumented verification of improvement

RETAINING SYSTEMS

- Sheet pile and soldier pile walls
- Diaphragm walls and secant piles
- Anchored and strutted excavations
- MSE walls and reinforced slopes
- Soldier pile and lagging systems
- Dewatering design and monitoring
- Construction sequence modelling

SPECIALIST ANALYSIS

- Slope stability (Bishop, Janbu, Morgenstern)
- Finite element analysis (PLAXIS 2D/3D)
- Liquefaction and seismic site response
- Soil-structure interaction (SSI)
- Settlement prediction and monitoring
- Numerical modelling peer review
- Expert witness and dispute support

The Vision Difference — Why Clients Choose Us



Integrated Delivery

Field crews, senior engineers, and accredited ISO 17025 laboratory under one roof — no hand-off delays, no subcontractor gaps.



Engineer-Led Reports

Every deliverable is signed by a senior chartered engineer — findings interpreted for design, not delivered as raw data.



Schedule-Driven

Owned equipment, owned laboratory, owned teams. We hit tight oil & gas, MPW, KOC, and EPC schedules — every time.

Sectors We Serve

Oil & Gas

Infrastructure

Marine & Ports

Buildings & Towers

Industrial

Government

2004

ESTABLISHED

2000+

PROJECTS DELIVERED

4

ISO CERTIFICATIONS

Kuwait

& GCC COVERAGE



Vision International General Trading & Contracting Co. W.L.L.

Established 2004 · Kuwait-based · GCC delivery

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