



BUILDING LASTING PARTNERSHIPS ACROSS RAIL, CONSTRUCTION AND SOCIAL VALUE

Welcome to Infrastructure Consultancy Group, your trusted one-stop-shop solution for infrastructure projects throughout the UK rail and construction industry.

RESURFACING AND TARMACKING CAPABILITIES

1. Surface Preparation

- Site clearance and debris removal
- Milling and planing of existing surfaces
- Grading and leveling for proper drainage
- Application of tack coat for adhesion

3. Tarmacking Services

- Full-depth asphalt installation
- Driveways, car parks, and access roads
- Heavy-duty industrial and commercial surfaces
- Decorative and colored tarmac options

5. Equipment & Technology

- Modern paving machinery for precision
- Laser-guided leveling systems
- Compaction equipment for durability
- Quality control and testing for compliance

2. Asphalt Resurfacing

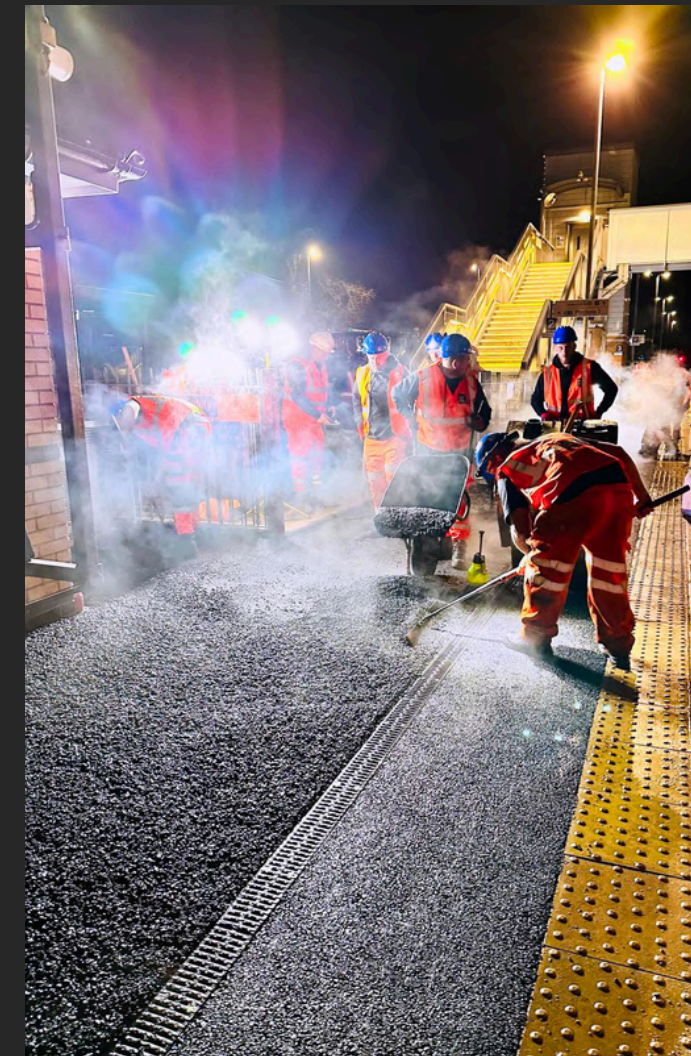
- Overlay of existing pavement with new asphalt
- Patching and repair of damaged areas
- Crack sealing and joint treatment
- Use of hot and cold asphalt mixes as required

4. Specialized Solutions

- Anti-skid and high-friction surfacing
- Thermoplastic road markings
- Surface dressing for extended lifespan
- Sustainable and recycled asphalt solutions

6. Additional Services

- Drainage installation and adjustments
- Kerbing and edging works
- Line marking and signage integration
- Maintenance programs and aftercare



RAIL AND CIVILS BRICKWORK & STRUCTURAL REPAIRS CAPABILITIES

1. Brickwork Services

- Construction and repair of retaining walls
- Brick arch restoration and strengthening
- Tunnel lining repairs and brick replacement
- Heritage brickwork preservation for rail structures

2. Structural Repairs

- Bridge and viaduct masonry repairs
- Concrete structure patching and reinstatement
- Crack stitching and structural reinforcement
- Load-bearing wall stabilization and underpinning

3. Civil Engineering Works

- Platform edge and coping stone replacement
- Drainage and ducting integration within brick structures
- Embankment and parapet wall repairs
- Culvert and underpass brickwork maintenance

4. Specialist Techniques

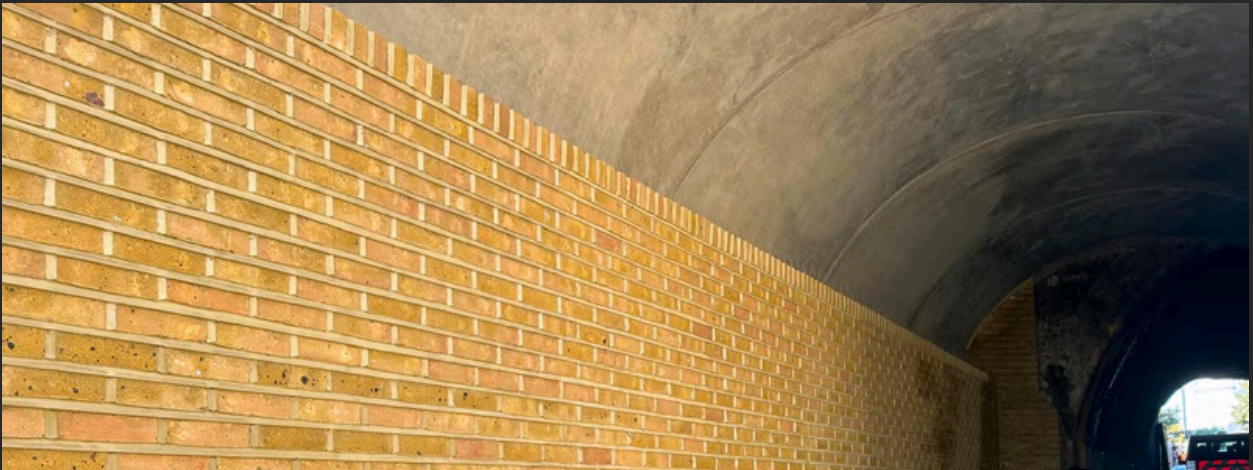
- Use of traditional lime mortar for heritage compliance
- Epoxy resin injection for structural integrity
- Waterproofing and protective coatings
- Fire and impact damage restoration

5. Compliance & Safety

- Adherence to Network Rail & TfL standards and specifications
- Work within live rail environments with full safety protocols
- Structural inspections and condition surveys
- Quality assurance and certification for all repairs

6. Additional Services

- Temporary works design and installation
- Scaffolding and access solutions for complex repairs
- Integration with signalling and track infrastructure
- Emergency response and rapid repair capability



HEAVY CIVILS – CONCRETE BASES, HEAVY MACHINERY & GROUNDWORKS CAPABILITIES

1) Pre-Construction & Planning

- Site surveys, utilities mapping, and ground investigation (GI)
- Method statements, risk assessments, and temporary works design
- Construction sequencing and logistics planning for constrained sites
- Stakeholder coordination with clients, HA, NR, local authorities, and third parties

2) Groundworks & Earthworks

- Bulk excavation, cut-and-fill, grading, and compaction
- Trench excavation with temporary support/shoring
- Sub-base formation (Type 1/6F5), blinding layers, and geotextiles
- Soil stabilisation, lime/cement improvement, and ground remediation
- Embankment construction, shoulders, and formation level controls

3) Foundations & Concrete Bases

- Pad, strip, raft, and piled foundation coordination
- Reinforced concrete bases for plant, equipment, steel frames, and infrastructure
- Precision tolerance base construction (millimetre-level) for heavy machinery alignment
- Concrete mix design, pour planning, pump placement, and joint detailing
- Power-floating, broom finish, and anti-slip/chemical-resistant coatings
- Curing regimes, early-age protection, and thermal control for mass pours
- Anchor bolt setting, cast-in plates, and holding-down systems

4) Formwork, Reinforcement & Concrete Placement

- Traditional and modular formwork systems, shutters, and falsework
- Rebar scheduling, bending, fixing, and cover compliance
- Screed rails, laser-guided levelling, and vibrating screeds
- Cold joints, expansion/joint systems, dowel installation
- Precast installation and in-situ stitching



HEAVY CIVILS – CONCRETE BASES, HEAVY MACHINERY & GROUNDWORKS CAPABILITIES

5) Heavy Machinery & Lifting Operations

- Operated plant: excavators (5–50t), dozers, graders, rollers, dumpers
- Cranes, telehandlers, MEWPs, HIABs, and specialized lifting gear
- GPS/laser-guided plant for precision earthworks
- Lift plans, appointed persons, slinger/signaller teams
- Plant maintenance, inspection regimes, and on-site fuel management

6) Drainage, Utilities & Enabling Works

- Foul and surface water systems, manholes, catchpits, attenuation
- Ducting for power, comms, signalling, and water
- Pumping stations, interceptors, and separators
- Utility diversions, protection, and trial pits
- Sustainable drainage (SuDS): swales, permeable layers, soakaways

7) Temporary Works & Access

- Sheet piling, trench boxes, shoring and strutting
- Temporary roads, hard standings, and crane pads
- Cofferdams and working platforms (validated bearing capacity)
- Traffic management, plant access routes, and pedestrian segregation

8) Compliance, Assurance & Testing

- Concrete cube testing, slump, air, and temperature control
- Plate load tests, CBR, density tests, and compaction certificates
- As-built surveys, level checks, and dimensional verification
- QA/QC documentation, ITPs, NCR management, and handover packs

9) Reinstatement & Finishing

- Backfill, compaction, and formation reinstatement
- Kerbs, edgings, and hard landscaping
- Surfacing: tarmac/asphalt, concrete slabs, and surface dressing
- Line marking, barriers, bollards, and site demobilisation



SETTING OUT & ENGINEERING CAPABILITIES



1) Survey Control & Primary Setting Out

- Establishment of site datums, control networks, and benchmarks
- Transfer of levels using total stations, GNSS/RTK, and digital levels
- Coordinate systems: local grid, OSGB36, and project-specific transformations
- Control verification, resection, and traverse closures with documented tolerances

2) Instrumentation & Digital Tools

- Robotic/GNSS total stations, scanners (where applicable), digital inclinometers
- Laser-guided plant integration for precision earthworks and concrete finishing
- Data capture and management using Trimble/Leica workflows, CAD/BIM integration

3) Setting Out for Civils & Structures

- Foundations: pad/strip/raft/piled caps-gridlines, hold-down bolts, cover, and tolerances
- Reinforced concrete bases: screed rails, level control, joint layout, and dowel setting
- Structural steel: column positions, plinths, and bolt templates to mm-level accuracy
- Precast installation: bearing seats, shim packs, grout pads, and alignment verification
- Rail-specific assets: platforms, copings, cess, OLE bases, signal bases, and drainage

4) High-Accuracy Works

- Millimetre-level precision setting out for heavy machinery bases and equipment alignment
- Plinth and rail interface controls (gauge, cant, height, toe) where applicable
- Temperature/deflection considerations for long pours and mass concrete

5) Utilities & Drainage

- Trial holes, utility mapping, and clash avoidance
- Setting out manholes, chambers, falls, and invert levels to design hydraulic grade line
- Verification of duct routes, draw pits, and multi-duct corridors with as-built records

6) Monitoring & Control

- Settlement and movement monitoring (prisms, levelling runs, crack gauges)
- Vibration/noise/dust monitoring for compliance and mitigation
- Structure health checks: periodic surveys, trigger levels, and response plans



SETTING OUT & ENGINEERING CAPABILITIES

7) Quality Assurance (QA/QC) & Documentation

- ITPs for all setting out activities with hold/witness points
- Concrete QA: cube tests, slump/air/temp logs, pour records, and curing regimes
- Dimensional checks, tolerance sign-off, and non-conformance management
- As-built surveys, redlines, and delivery of CAD/BIM-compliant models and drawings

8) Temporary Works & Access

- Survey input to temporary works design: shoring, crane pads, working platforms
- Validation of platform bearing capacity, levels, and geometry before plant operations
- Interface control between temporary and permanent works

9) Design Coordination & Interfaces

- Technical queries (RFIs), design change control, and revision tracking
- Clash detection through BIM models and federated coordination
- Interface management with M&E, structural steel, track/signalling, and architectural packages

10) Safety, Compliance & Rail Delivery

- RAMS, permits to dig, exclusion zones, and survey-safe systems of work
- Rail possessions, isolations, and safe systems near live tracks and OLE
- Compliance with client specs, BS/EN standards, and industry guidance

11) Tolerances & Standards (Project-Specific)

- Application of project/design tolerances for foundations, slabs, steelwork, drainage
- Documented acceptance criteria; escalation process for out-of-tolerance works
- Calibration schedules for instruments; traceable certificates

12) Deliverables

- Setting out drawings, control reports, level books, and survey logs
- As-built models (DWG/DXF/IFC), point-clouds where used, and data dictionaries
- Handover dossiers: QA packs, test certificates, photos, and O&M inputs



PERMANENT WAY (P-WAY) CAPABILITIES



1) Track Construction & Renewal

- Full track installation: sleepers, rails, fastenings, and ballast
- Track renewals: plain line and switches & crossings (S&C)
- Slab track installation and maintenance
- Rail welding (aluminothermic and flash butt) and stress management
- Ballast cleaning, replacement, and tamping for geometry compliance

2) Track Maintenance & Inspection

- Routine maintenance: rail grinding, lubrication, and defect removal
- Ultrasonic rail testing and geometry checks
- Track alignment, cant, and gauge correction
- Vegetation clearance and drainage maintenance for track stability
- Emergency response for derailments and track damage

3) Specialist Works

- Switches & crossings installation, refurbishment, and adjustment
- Level crossing installation and maintenance
- Track drainage systems and under-track crossings (UTX)
- Rail stressing and neutral temperature management
- Track welding and grinding for ride quality and compliance

4) Safety & Compliance

- Full compliance with Network Rail standards, NR/L2/TRK specifications
- PTS-certified workforce with relevant competencies (Track Induction, ICI, etc.)
- Safe systems for possessions, isolations, and blockades
- Adherence to CDM, RISQS, and industry best practice

5) Engineering & Setting Out

- Track geometry design and verification
- Setting out for plain line and S&C using total stations and GNSS
- As-built surveys and handover documentation
- Integration with signalling, OLE, and civils interfaces

6) Additional Services

Track drainage and formation improvement
Ballast management and recycling solutions
Temporary track installations for work sites
Decommissioning and recovery of redundant track assets

7) Project Delivery

Possession planning and delivery under tight timeframes
24/7 emergency call-out capability
Experienced teams for night works and high-output operations
Full project lifecycle support: design, install, maintain, renew



STAFFING AND QUALITY CAPABILITIES



1) Workforce Solutions

- Temporary, Contract, Permanent, and Temp-to-Perm placements
- Project-based resourcing, rapid mobilisation, and surge capacity
- 24/7/365 support for night works, possessions, and emergency call-outs

2) Role Coverage – Blue Collar

- Civils & Groundworks: operatives, gangers, supervisors, pipelayers, kerbers, concrete finishers
- Rail: PTS labour, trackmen, platform teams, drainage crews, OLE civils 'blue hat' roles
- Surfacing & Tarmac: pavers, roller drivers, planers, rakers, line markers
- Structures & Brickwork: masons, bricklayers, stitchers, fixers, shuttering carpenters, steel fixers
- Utilities: ducting crews, cable pullers, confined space operatives, NRSWA teams
- Finishing & Reinstatement: kerbs/edgings, landscaping, fencing, barriers, road marking

3) Role Coverage – White Collar

- Site & Project: Project Managers, Site Managers, Programme Managers, Construction Managers
- Engineering: Setting-Out Engineers, Site Engineers, Senior Engineers, Temporary Works Engineers
- Commercial: Quantity Surveyors, Estimators, Planners, Cost Managers
- Technical: Design Engineers, CAD/BIM Technicians, Document Controllers
- HSEQ & Compliance: HSE Advisors/Managers, Quality Managers, Auditors
- Rail & Infrastructure: CRE/CEM, Possessions Planners, Interface Managers
- Back Office: HR/Payroll, Procurement, Logistics, Admin/PA

4) Compliance & Accreditation

- Right to Work checks, identity verification, reference and employment history
- CSCS/CPCS/NPORS/NRSWA, PTS and rail competencies (Sentinel), SMSTS/SSSTS
- Medicals, drug & alcohol testing, and fitness-for-work



STAFFING AND QUALITY CAPABILITIES

5) Onboarding & Mobilisation

- Role-specific induction packs and site briefings (RAMS alignment)
- Pre-start coordination: PPE, permits, access cards, and site requirements
- Travel & lodging arrangements for remote sites and night possessions

6) Diversity, Inclusion & Local Benefits

- Inclusive sourcing practices and equal opportunities
- Local hiring to support community employment and social value commitments
- Apprenticeships, traineeships, and upskilling pathways with training partners

7) Project Management & Delivery

- Programme management (short-term lookahead and baseline control)
- Cost control, change management, and commercial reporting
- Interface risk management and stakeholder communications
- Night works, possessions, and constrained/urban site delivery experience

8) Safety, Environment & Sustainability

- CDM-compliant site setups, RAMS, and permit-to-work systems
- Emergency response plans, exclusion zones, and banksmen
- Noise, dust, vibration controls; spill prevention and waste management
- Use of recycled aggregates and low-carbon concrete options
- Biodiversity protection, watercourse controls, and environmental monitoring



Regional Offices, National Reach



As the works that we serve continue to grow so does our presence.

Based in South We have offices in Portsmouth, Bristol and Ashford providing convenient locations for meetings.

Additionally, for our London-based clients, we frequently host meetings at an exclusive location within London City central, offering a professional and comfortable setting to discuss your needs.

OUR ACREDITATIONS



OUR PARTNERS





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