

TSL Group
Construction & Railway Civils

Delivering Integrated Infrastructure Services Across Rail & Road Sectors

TRACKSIDE SOLUTIONS ARE DECARBONISING THE ASPHALT REPAIR INDUSTRY.

INTRO

Sustainable Surfacing Solutions for Road and Rail.

Trackside Solutions is a multi-disciplinary infrastructure delivery partner specialising in thermal road repairs, rail civil works and specialist fabrication.

We operate nationwide, deploying experienced teams with industry-proven systems and competencies to deliver safe, compliant, and high-quality outcomes on both planned programmes and reactive environments.

Our capability integrates technical depth with operational reliability, positioning us as a trusted partner for principal contractors, asset owners, and infrastructure clients.



SECTOR SERVICE 1

Thermal Road Repairs

Trackside Solutions incorporates advanced thermal road repair capability, using state-of-the-art infrared systems to deliver permanent, seamless asphalt reinstatement.

The development of the patented 'pulse heat' system can affect layers up to 100mm thick, and uses a unique blend of solar and biofuels to power it. Our unique thermal process reheats existing surfaces, allowing reintegration of material in situ, avoiding cutting or excavation, reducing waste streams and lowering carbon emissions compared with traditional methods. This approach delivers durable repairs with minimal disruption to traffic and site operations.

We support councils, contractors, facilities operators and infrastructure owners with emergency and scheduled pothole and asphalt defect rectification, training and equipment support.

A Worldwide Surface Problem

Asphalt deterioration surface problems include potholes, joint failures, and utility trench reinstatements remains a persistent challenge worldwide. These defects compromise safety, increase lifecycle costs, and place growing pressure on asset owners to intervene quickly and effectively.

Against a backdrop of tightening environmental expectations, organisations are seeking repair methods that are sustainable, cost-efficient, and genuinely permanent. The requirement is clear: a low-carbon, high-productivity solution that delivers a right-first-time outcome while minimising disruption to road users and surrounding communities.

Thermal Road Repairs' patented technology has been developed to meet these

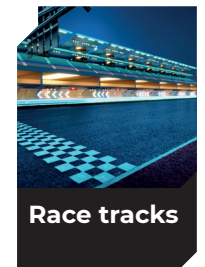
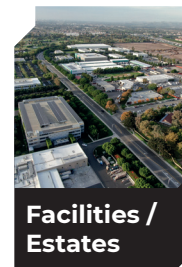
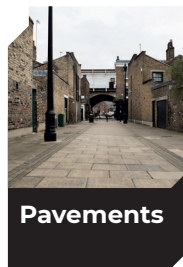
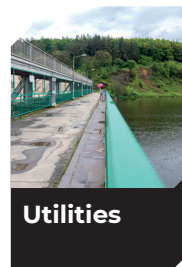
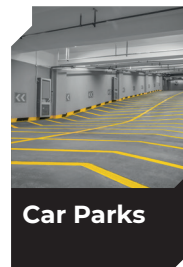
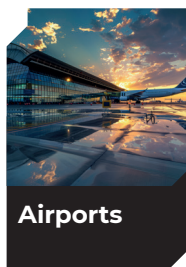
demands. Through sustained investment in research and development, our systems remain at the forefront of asphalt repair innovation, providing a versatile range of solutions capable of addressing virtually any asphalt defect scenario.

Our process delivers a high-output, low-emission, zero-waste repair that restores the integrity of the existing surface, extending asset life without the environmental and operational costs associated with traditional methods.

Thermal Road Repairs' equipment is now supporting efficient, user-friendly asphalt and pothole repair programmes across the UK, serving clients in both public and private sectors.

Sectors

The Thermal Road Repairs solution is suitable for all asphalt-surfaced environments, including airports, ports, car parks, utilities infrastructure, roads and highways, pavements and walkways, rail networks, facilities and estates, and specialist applications such as race tracks.



Benefits of Thermal Road Repairs:

Choosing thermal road repairs over traditional repair methods brings a host of valuable benefits, making it a preferred solution for public sector bodies, commercial operators, facility managers, and infrastructure providers alike. The process delivers efficiency, sustainability, and durability, tailored to meet the demands of a wide range of industries and environments.



Patented 'Pulse Heat' Repair System



3 Personnel Operation



High-Volume Output



Fleet of various size heaters



One Self-contained Vehicle



NHSS Approved



Permanent seamless solution - No joints for water ingress and failure.



Work on all Asphalt types.



Low HAVS Risk



Fast & Efficient Process



Minimal disruption



TRACKSIDE SOLUTIONS ARE DECARBONISING THE ASPHALT REPAIR INDUSTRY.



Thermal Road Repairs Vs Traditional Methods

Zero Waste

This approach aims for zero waste. The materials used are often 100% recycled. This avoids the need to dispose of waste products, unlike traditional repairs.

Low Noise Pollution

Thermal repairs are much quieter. Noise levels are up to 75 dB, compared to a very loud 125 dB with traditional methods. This reduces disturbance during road work.

Lower Carbon Emissions

Thermal road repair methods produce significantly less carbon dioxide. The image shows only 0.5 kg/m² of emissions compared to 3.49 kg/m² for traditional methods. This makes it a much more environmentally friendly option.

Low Risk of HAVs

There's a low risk of Hand-Arm Vibration Syndrome for workers. The Exposure Limit Value is much lower with thermal repairs. This prioritises the health and safety of the workforce.

Efficient Process

Thermal repairs offer an efficient process. The image indicates a comparable time of around 30 minutes for completion. This helps minimise traffic disruption.

Thermal Road Repairs



Zero Waste

100% recycled



LOW Noise Pollution

No cutting or jackhammering



Single vehicle

One self-contained vehicle



LOW Risk HAVS

No jackhammer
ELV Actual = 173 points



Efficient process

Up to 10 mins

Vs



Waste produced

0% recycling. Waste product produced and disposed of

Vs



HIGH Noise Pollution

Damaging noise from cutting and jackhammering

Vs



Multiple vehicles

Multiple vehicles to and from site

Vs



HIGH Risk HAVS

Jackhammering, high danger
ELV Actual = 5,543 points

Vs



Inefficient process

Up to 30 mins



Protecting the Environment

Thermal Road Repairs patented equipment uses industry-leading, environmentally friendly design and sustainable techniques to achieve low carbon emissions without the need for offsetting, offering minimal environment impact.



Patented 'Pulse Heat' Repair System



3 Personnel Operation



High-Volume Output



Fleet of various size heaters



One Self-contained Vehicle



NHSS Approved



Traditional Road Repairs

3.49

Kg/m²
CO₂ emissions

100%

imported
material

0%

recycled
material

Thermal Road Repairs

85%

savings on
CO₂ emissions
(0.5 Kg/m²)

90%

savings on
imported
material

100%

savings on
recycled
material



SECTOR SERVICE 2

Rail Infrastructure Services

Delivered to Industry Standards.
Trusted Across the Network.

Trackside Solutions provides a fully integrated range of rail infrastructure and civil engineering services, delivered in line with Network Rail requirements and current industry standards. Operating nationwide, we undertake projects ranging from small reactive works (£100+) to major civil packages exceeding £1m, using our own directly employed workforce and experienced supervisory teams.

Our approach combines technical capability, safety compliance and operational understanding to support Network Rail.



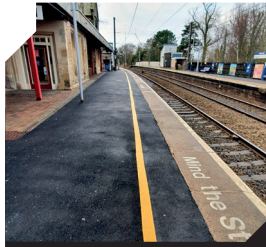
Comprehensive Rail Civil Engineering

We deliver end-to-end civil and trackside solutions designed to enhance safety, operational resilience and long-term asset performance.



Level Crossings & Access Works

- Installation of level crossing stiles, gates, steps and authorised access points
- Level crossing surfacing and reinstatement to specification
- Surface upgrades to improve durability and compliance
- Level Crossing Attendant (LXA) support services



Station & Platform Works

- Station refurbishments
- Platform extensions and structural improvements
- Platform surfacing and access enhancements
- Reinforced concrete (RC) bases and walkway installations



Cable Installation & Containment

- Engineered cable pulling and laying
- Trough laying and route installation
- UTX (Under Track Crossing) installation
- Ducting systems and integrated drainage interfaces
- Cable containment solutions for traction power, signalling and telecoms



Drainage & Groundworks

- Track drainage installation
- Catchpit clearance
- Culvert repairs
- Integrated troughing and drainage civil works
- Concrete-encased pipework installations



Structures & Foundations

- Masonry and brickwork repairs
- Equipment bases and reinforced foundations
- Gantries and structural support systems
- Straight posts and associated civils
- Bridge replacement packages
- Track monitoring infrastructure



Lineside & Environmental Services

- Vegetation management and de-vegetation works
- Lineside tree and scrub clearance
- Secure fencing installation
- Gates, stiles, steps and authorised walking route



Safety-Critical Labour, & Resource Solutions

Trackside Solutions is a trusted supplier of safety-critical staff, contingent labour and skilled tradespeople across Rail Network infrastructure.

All personnel are fully trained, certified and competent in their designated roles, holding relevant qualifications including PTS, CSCS, CPCS and NVQs.

Our operational management team works closely with clients to ensure resource planning aligns with programme demands and safety expectations.

Safety-Critical Roles Supplied

- PTS Operatives
- Lookouts
- Site Wardens
- IWA
- COSS (with OLP/CRP)
- Engineering Supervisors
- Protection Controllers (PC)
- LXA
- Points Operators
- Strapman & Assistant Strapman
- Crane Controllers (all groups and attachments)
- Machine Controllers (all groups and attachments)
- Level A/B personnel

Delivery Model

- Directly employed workforce
- Competent supervision and site management
- Fully compliant safety systems
- Nationwide coverage
- Flexible delivery – reactive, planned or framework support

From cable containment and drainage to station enhancements and structural foundations, Trackside Solutions delivers dependable, compliant and cost-effective rail infrastructure services that keep the network moving safely and efficiently.



Fabrication

A Complete Engineering Solution

Explore our services to see how we can meet your engineering challenge!

Design

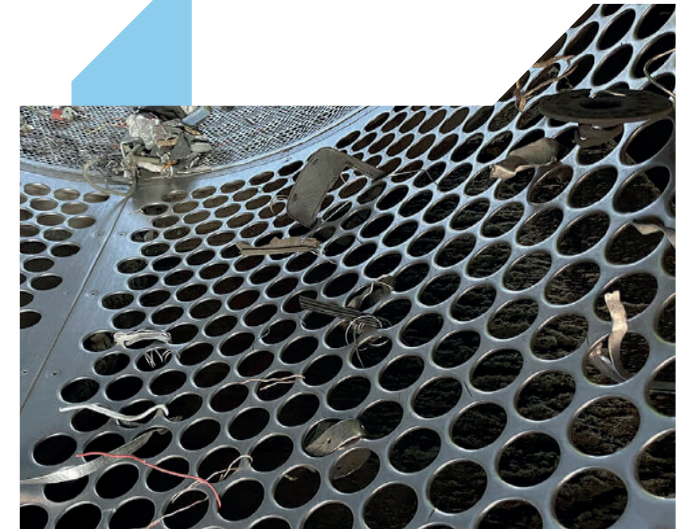
Our design team are skilled design engineers who work with CAD and 3D modelling software packages, enabling our clients to visualise and analyse how a design will work prior to fabrication and installation.

Fabrication

Our fully equipped workshop can provide MIG, TIG, Gas and Spot Welding, Press Brake Bending and Forming, Guillotine, Laser Cutting, Finishing and Hand Finish Fettleing for fabrication work up to 15m high and 25 tonnes.

Installation

We have a skilled team of engineers who can install something as simple as rollers to mini plants and trommels.



Our Five Core Principles For Success

1 Cost Efficiency

We continually review our products and processes to ensure our services are cost efficient. Sometimes this may mean redesigning a piece of equipment or using different materials and products which are usually used as standard.



2 Lead By An Expert Team

We are a qualified and experienced team of people within our respective fields of expertise. Together we will lead Trackside Solutions through our mission objectives and towards our vision of being a 'national leading fabrication company.



3 Stringent Health & Safety Protocols

Trackside Solutions is committed to minimising the risk of injury, ill health, and damage to property or the environment for employees and all those affected by our work.

Recognising that the engineering sector is high risk, we apply the highest health and safety standards across our organisation and supply chain. These standards are embedded into daily operations and have resulted in an exemplary health and safety record.

Ongoing training and development ensure all employees are competent and properly instructed to carry out their work safely. In accordance with the Construction (Design and Management) Regulations 2015, Three System Solutions has the knowledge and experience to act as Principal Contractor, managing and coordinating health and safety through a clearly defined Construction Phase Health and Safety Plan.



Our Five Core Principles For Success

4 Rigorous Quality Assurance Checks

Quality assurance is a way of preventing mistakes and defects in manufacturing products and avoiding problems when delivering services to our clients. Like most organisations we want to provide our clients with the best customer service.

We can only do this with robust quality systems, procedures and policies that are continually monitored and developed by our employees and clients. We have endeavoured to make quality assurance systemic throughout our organisation and therefore in everything we do.



5 Committed to Reducing Environmental Impact

At Trackside Solutions we have a real commitment to protecting our environment. Scientists have made us very aware that our planet cannot continue to sustain humanity if we do not take responsibility for our actions.

We know that our type of business produces a significant carbon footprint, and it is this increase in Greenhouse Gas (CO²e) emissions into the atmosphere that is the biggest cause of global warming to our planet.

To protect our environment, we will continue to monitor and review our business activities and make the necessary changes.



Trackside Solutions Site Setup

Trackside Solutions delivers comprehensive site setup services across the construction, industrial, utility and infrastructure sectors. We understand the operational and programme pressures these environments demand, which is why we take care of the setup, so you can focus on delivery with confidence.

We develop detailed site layout plans using the latest CAD software to ensure efficient, compliant and practical setups tailored to your project requirements. Using our own fleet of cabins, welfare units, welfare vehicles and fencing systems, our qualified and experienced Site Setup Engineers provide a complete end-to-end service — from installation and ongoing maintenance through to final removal.

Operating across the UK, we support a wide range of project types and have built a strong reputation for delivering reliable, efficient and cost-effective site setup solutions.

These services include:

- Temporary electrics & plumbing
- Temporary Fire Alarms
- Water Hygiene – chlorination & certification
- Temporary site & emergency lighting
- Sitewide electrical & transformer distribution
- Generator hire
- Water Bowser Supply and Installation
- Testing and PAT testing
- Defibrillators
- Access Control & CCTV
- Security Guards, Cleaners & General Labour



Why Choose Trackside Solutions

Trackside Solutions combines sector-specific technical services with advanced repair technologies and multi-skilled project teams. Whether supporting rail corridor maintenance, vehicle access point rehabilitation, or thermal road repair programmes, our solutions are designed to be resilient, cost-effective and aligned with client outcomes.

Capability & Compliance

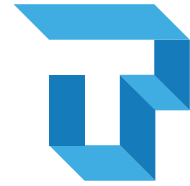
Our teams are equipped and resourced to deliver both planned infrastructure programmes and reactive response work. Safety and compliance underpin every deployment, ensuring all works are executed within the appropriate standards and site competency frameworks. Trackside Solutions delivers scalable project delivery from small-scope assignments to complex, integrated site works across the rail and road infrastructure sectors.

For enquiries and project dialogue, please contact the Trackside Solutions team.





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TSL Group
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Trackside Solutions are decarbonising the asphalt repair industry.

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Our Accreditations

