



A Selection of Works on

► Fabrication

February 2021

Design and Build Specialists for UK Infrastructure

*'Leaders in
the provision
of Design and
Build solutions
for over 25
years'.*

Cairn Cross deliver a complete built environment service to our customers whilst maintaining traditional values and skills. We push the boundaries in providing solutions using modern techniques and technologies, all encompassed by our work ethic and sense of pride in delivering a safe, innovative, quality and valuable service.



Over the last 25 years, Cairn Cross has designed and installed a wide array of structural buildings for various sectors and purposes. Work and capabilities include the design, foundations, steel frame erection and fabrication, cladding, and complete fitting out works, including flooring, drainage, electrical and lighting solutions.

Delivering pioneering innovational products and solutions from our in-house specialist design and engineering team to the industry and market, we provide an efficient, safe turn-around and quality finish. We pride ourselves on the works that we carry out.

This brochure highlights recognisable projects previously commissioned to complete.



 **Client:** Network Rail
 **Location:** Perth, Scotland



Turnkey design and building contract to provide a new enclosed carriage wash facility.

- ▶ Pollution containment required for the wash water runoff. The new Unipart Rail & Cairn Cross Solutions TrackPan with safe walking access utilised.
- ▶ New building to house new carriage wash
- ▶ New carriage wash plant room
- ▶ Installation of troughing and walking routes
- ▶ Installation of TrackPans
- ▶ New drainage connections
- ▶ Innovation: Use of the new Cairn Cross TrackPan system.





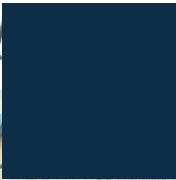
 **Client:** South West Trains
 **Location:** Wimbledon, London



Design and build the wheel lathe shed extension and interlocking gates

- ▶ New steel columns
- ▶ New raft members
- ▶ Interconnecting steel tie beams
- ▶ Extension to the existing shed to accommodate the wheel lathe
- ▶ Installation of a new interlocking gate, controlling access to the wheel lathe





 **Client:** Alstom

 **Location:** Longsight, Manchester



Fabrication of access platforms and interlocking installation

- ▶ Design, manufacture and install three steel access platforms on Road 11 at Manchester Train Care Centre
- ▶ Interlocking safety system
- ▶ Manual safety system
- ▶ Manual winch
- ▶ Extended walkway





 **Client:** Alstom
 **Location:** Longsight, Manchester





Design and build a TMD canopy as part of the H3 works. The client required additional storage facilities to facilitate the overhaul of the bogie units throughout the train fleet.

- ▶ External canopy spanning six roads
- ▶ Installation of cladding
- ▶ Installation of a lighting scheme
- ▶ New concrete hard standing area and access road
- ▶ Bespoke in house designed and fabricated structure





 **Client:** Network Rail
 **Location:** Wistaston Road, Crewe





Design and build a new RRV maintenance facility
 The scheme outline was to provide a new shed facility to accommodate Road Rail Vehicles (RRV) on the depot so that rail maintenance can be carried out indoors.

- ▶ Excavating and preparing the existing ground for a new foundation
- ▶ Construction of the newly reinforced foundation
- ▶ Steel frame erection and installation of cladding sheets
- ▶ New Armco crash barriers
- ▶ New pedestrian fire doors and ramps with a new fire alarm system
- ▶ New drainage
- ▶ New gas heating system
- ▶ Leading electrical and LED lighting installation
- ▶ Installation of the LEV system







 **Client:** Alstom, Traincare UK
 **Location:** Longsight, Manchester



Maintenance shed and pit extension for 11 car integration. Due to changing the West Coast Mainline fleet of trains from 9 car sets to 11 car sets to increase passenger capacity, the operator required alteration and extensions to allow the depot to accommodate the extended trains.

- ▶ Provide integrated solutions for new 11 car Pendolino train sets in multiple areas
- ▶ Road 8 and 9 - Design, procure and erect building extension
- ▶ Road 6 and 7 - Design and construct pit extension
- ▶ Road 24 - Electrification and driver inspection routes





 **Client:** Alstom
 **Location:** Oxley, Wolverhampton



Design and build contract for an extension to the existing catering platform.

- ▶ Extend and raise the catering platform to accommodate the new 11 car Pendolino trains
- ▶ Inhouse design and fabrication, and installation of a steel subframe
- ▶ Case in situ concrete platform
- ▶ Installation of Armco barrier and handrail





 **Client:** Alstom

 **Location:** Longsight, Manchester



Design and build a bogie maintenance facility as part of the H3 works. The facility is capable of holding two bogies simultaneously for steam cleaning.

- ▶ Steel frame wash enclosure
- ▶ Structural modification to the pit
- ▶ GRP lining
- ▶ Installation of air and water extraction systems
- ▶ Installation of cladding and doors
- ▶ Bespoke inside out building design for improved maintenance





 **Client:** Network Rail
 **Location:** Perth, Scotland



Network Rail required a refurbishment of the deteriorating depot shed, including the trusses and steel work's repairs, becoming a Health and Safety risk to rail staff. We gave great care and attention to refurbish this Grade B listed building.

- ▶ Grit blast and painting of existing wrought iron lattice beams
- ▶ Structural repairs to lattice sections
- ▶ Fabrications of new trusses





 **Client:** GWR
 **Location:** Reading





The works at Reading Depot were to install a CET plantroom superstructure. Delivery included superstructure erection, fitting out the CET plant room of Controlled Emission Toilet Systems, and installation of Apron pipework. Installation of the CET pipework within the apron troughs

- ▶ Installation of electrical cabling within the apron troughs to each CET module
- ▶ Installation of earthing cabling to the Lucy cabinets
- ▶ CET plant room internal electrical installation
- ▶ CET plant room mechanical equipment installation





 **Client:** Alstom Traincare UK
 **Location:** Edge Hill, Lancashire



This project was procured as a design and build contract with Cairn Cross Civil Engineering as the Principal Contractor.

- ▶ Installation of two CET Modules
- ▶ Four new Wholesome water cabinets with associated pipework
- ▶ New pump house enclosure
- ▶ New troughing was laid to the shed road
- ▶ Discharge drainage was installed from the new plant room to the foul drainage
- ▶ 30 metre concrete apron extension
- ▶ 140m GRP walkway and crossings installation
- ▶ Upgraded cleaners cabin with installation, electrics, heating and external refurbishment.
- ▶ Access steps construction
- ▶ GRP AdBlue building installed
- ▶ Installation of two new AdBlue dispensers
- ▶ Installation of 10,000-litre tank fully bunded

- ▶ New fuel pump station installed





 **Client:** Wilcomatic
 **Location:** Glasgow



Wilcomatic required the existing carriage wash at SPT depot Govan to be replaced through a Design and Build project.

- ▶ Excavations works
- ▶ Modification of existing wash base
- ▶ Install a steel framed building with single cladding skin
- ▶ New concrete base for over ground separator/ reclaim equipment
- ▶ Existing drainage to be modified to allow pumping to a new reclaim system
- ▶ AVIS installation at the east end of the structure





Cairn Cross are specialist, collaborative and progressive multi-disciplined engineers. We design and deliver significant infrastructure projects that shape the built environment.

CAIRNCROSS

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