



OVERVIEW

The Practical Trackwork Challenge

THE PERMANENT WAY INSTITUTION



PTC – Practical Trackwork Challenge



The PTC is essentially a training course that allows people who work in the industry , but who have little or no site knowledge, to experience working in a live railway environment in a safe and controlled manner .



We get a training course but .





Heritage Railways





Heritage Railways

- They can provide access to an environment that is not freely available anymore . – Do not underestimate the advantages of this. Think of the opportunities . –
- Adopt one ?
- Permanent Way can be “ancient” and often in a truly dreadful state .



Some great work





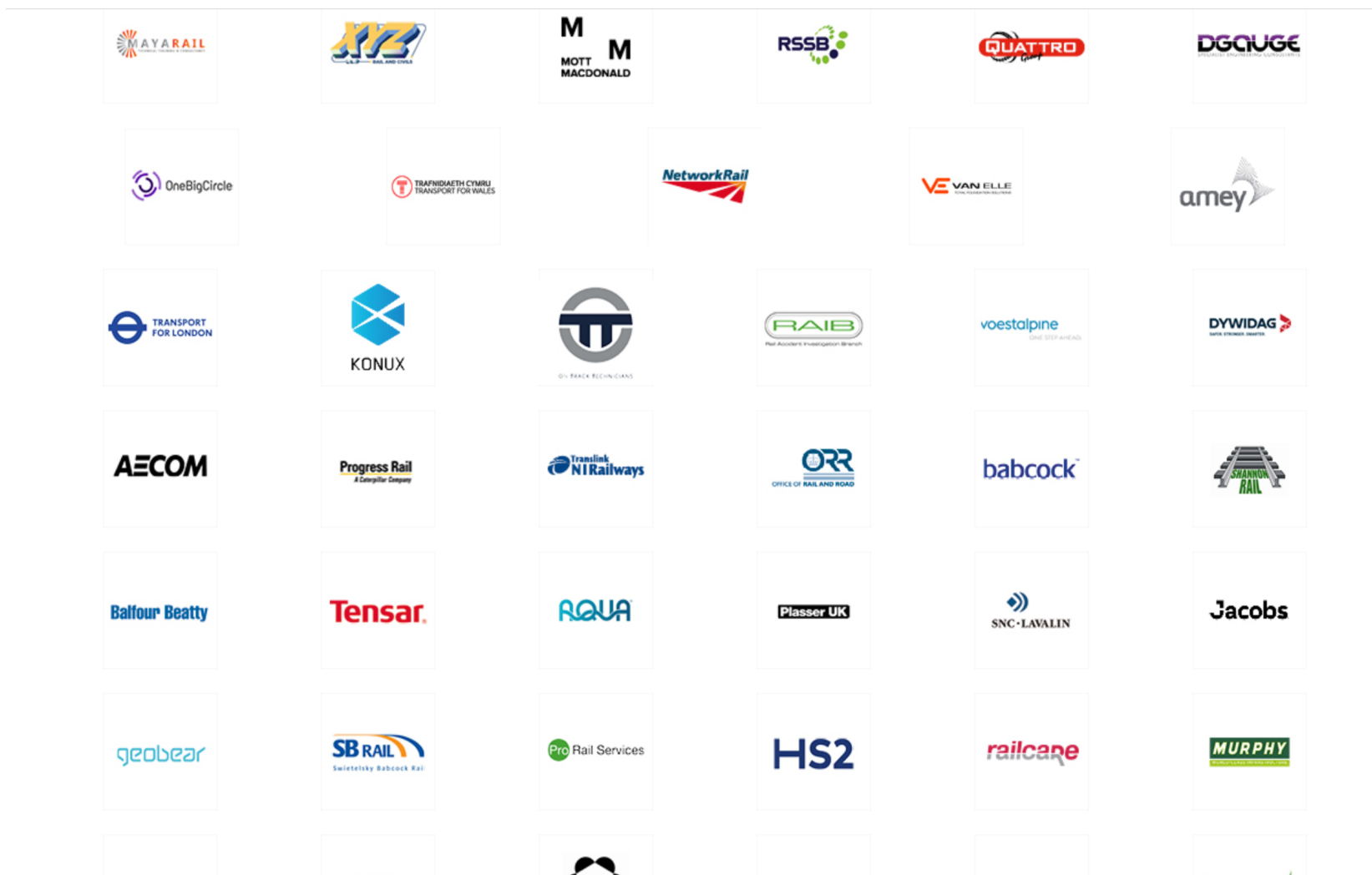
Who attends

We recommend people who don't normally go on site , such as back room staff like planners or those in Consultancies who rarely get out on site .

- ORR inspectors
- Admin/Logistics
- Women !!!???!!!
- Designers
- Planners
- Team Organisers
- Graduates/Trainees
- Anybody and Everybody



All of our corporate members get to send 2 members of staff





But 2022 wouldn't happen without;



Balfour Beatty



Pro Rail Services

M
M
MOTT
MACDONALD

Plus Robel and Sunbelt Renewals





2022 PWI Practical Trackwork Challenge

- Location – Kingsley & Froghall Stn to Site



2022 PWI Practical Trackwork Challenge

- **Location – Site limits**



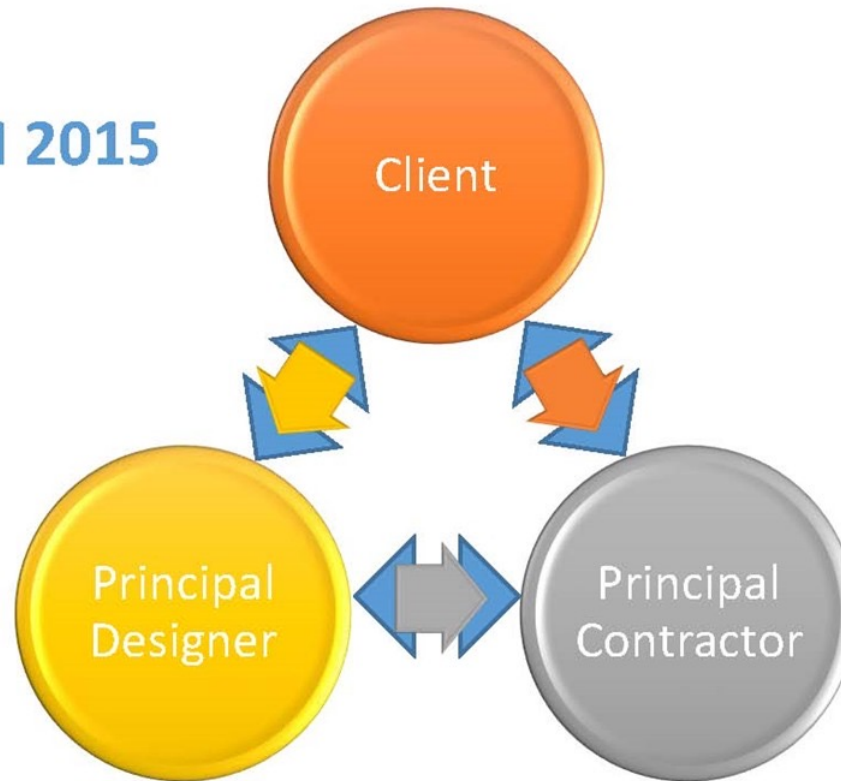


Logistics





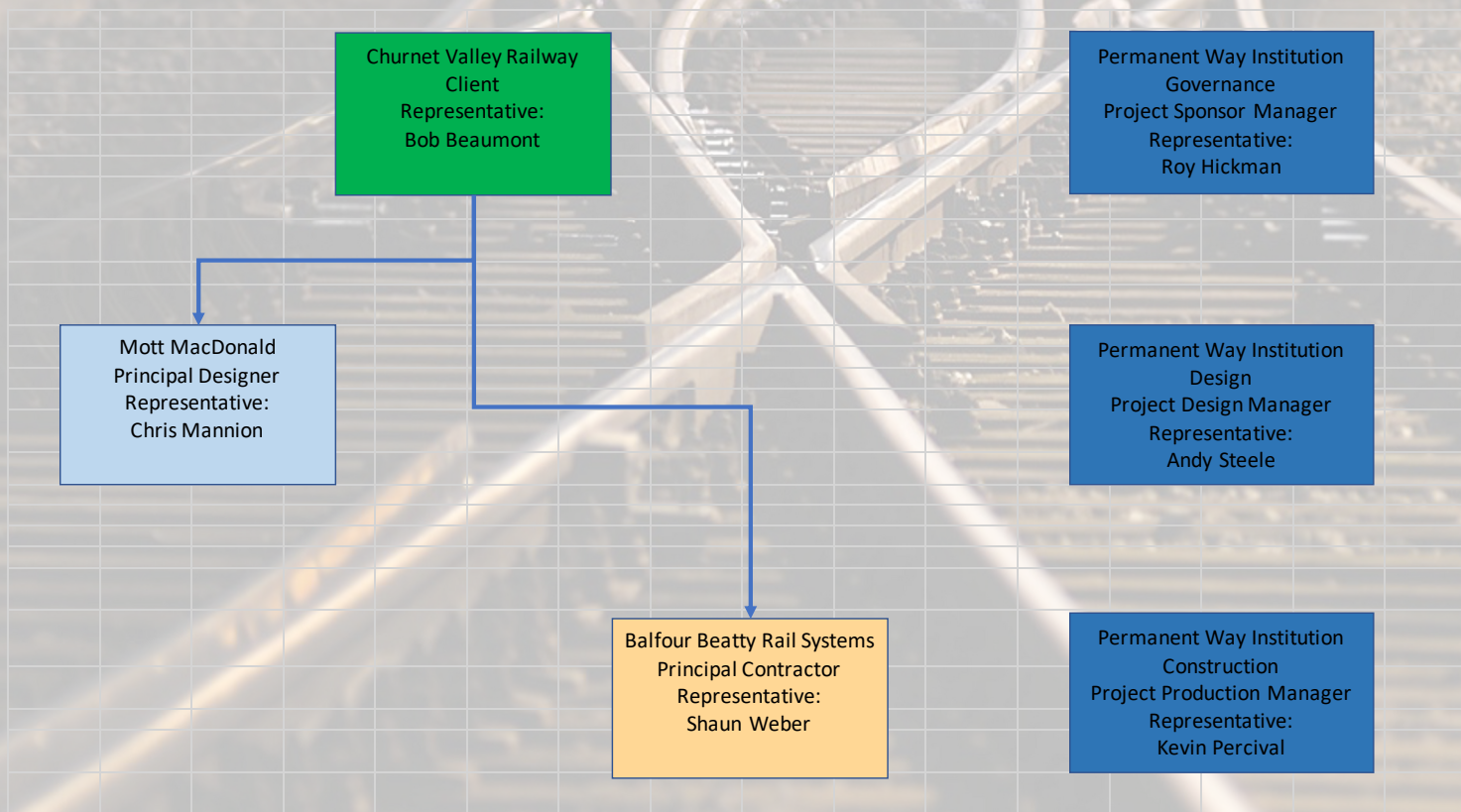
CDM 2015





2022 PWI Practical Trackwork Challenge

- **CDM & Project Interfaces**





2022 PWI Practical Trackwork Challenge

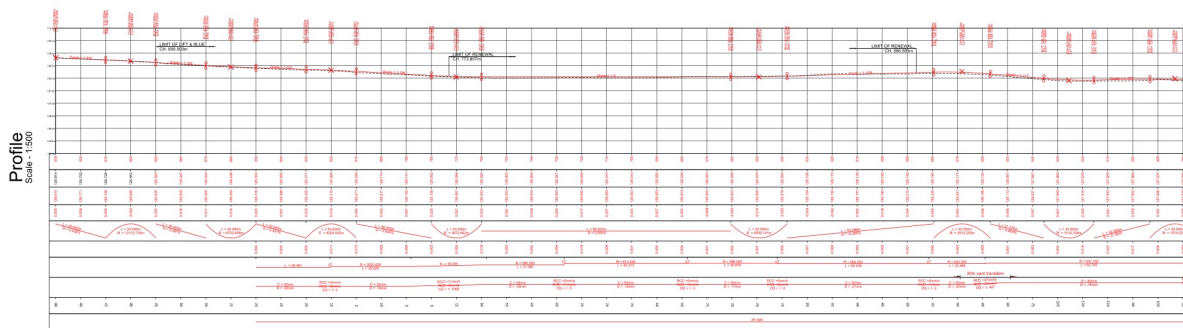
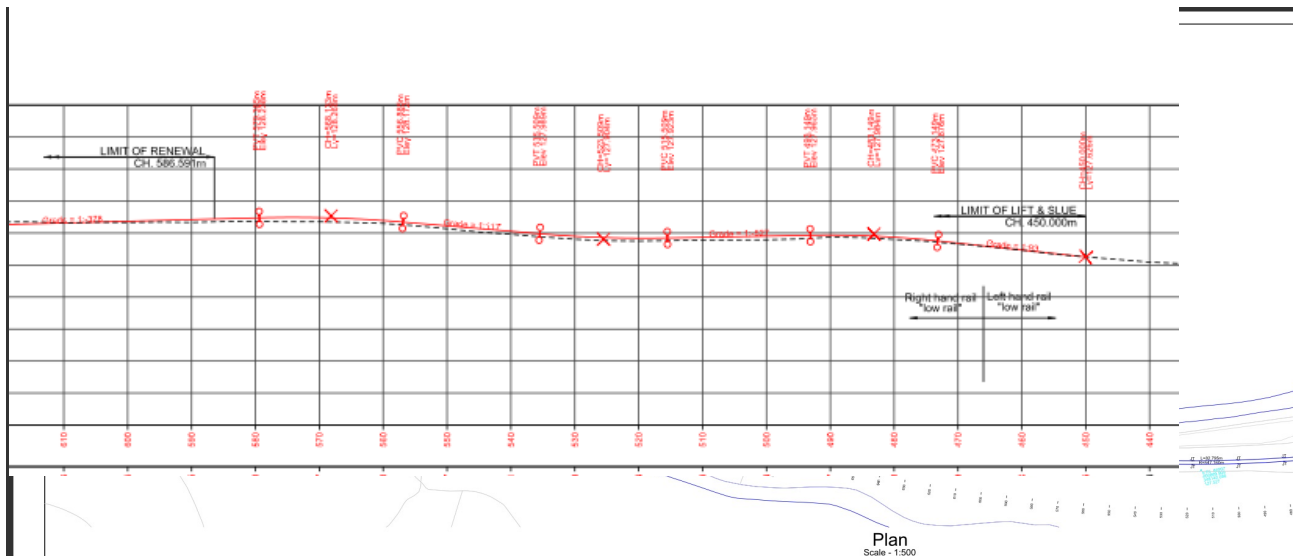
- **Scope & Specification**

- **Circa 183 metres track renewal, (rail, sleeper & ballast)**
- **20 N° 18.288 metres (60') Cen56E1 rails (BS113a FB)**
- **280 N° Sleepers (Cen56E1 suitable)**
- **Sufficient sleeper smalls (Pads, nylons & insulators) for above**
- **175 mm ballast depth with ramps to under-sleeper depth**
- **18.288 m (60') ballast ramps at each end of renewal**
- **Track-bed width 2.5 metres**



2022 PWI Practical Trackwork Challenge

- **Project preparation activities**
- **CVR**
 - **Adjacent track formation: Doze to level circa 270 m**
 - **Procure & delivery to site 280 N° Concrete Flatbottom sleepers**
 - **Procure & delivery to site circa 130 m³ of track ballast**
- **PWI**
 - **Project management plan**
- **Design**
 - **Survey**
 - **Setting out**
 - **Pre-construction information & plan**
 - **Secure resources**
- **Construction**
 - **Construction Phase information & plan**
 - **Secure Plant resources**
 - **Secure site management resources**



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Rev	Date	Description of Revisions	Drawn	Chkd	Appr
C01	22/03/22	For Construction	SB	NI	CM
A04	17/03/22	PWI Discussion	SB	NI	CM
A03	15/03/22	PWI Discussion	SB	NI	CM
A02	29/01/22	PWI Discussion - Updated Survey	SB	NI	CM
A01	30/11/21	PWI Discussion	SB	NI	CM

Status
For Construction

Client

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Project
PWI Trackwork Challenge

Drawing Title
Chumet Valley Plain Line Design
Plan and Profile

Designed	S. Bah	Signed		Date	14/02/22
Drawn	S. Bah	Signed		Date	22/03/22
Checked	N. Isamah	Signed		Date	XX
Approved	C. Mannion	Signed		Date	XX

Scale(s)	1:500	ELR & Mileage	CVR 13m 40ch
Alternative Reference		Sheet	01 of 01
Drawing Number	MM-PWI-PTC-001	Revision	C01

Sheet Size A0+1 841 x 1199



Site skills



- Industry trainers imparting their knowledge



Site Skills





Site Skills – Surveying





Boxing in – Behind the tamper





Top Ballast

- Some Challenges





Certificates and Thanks

We want you to get involved !





Demonstrations





Future Programme

Date	Heritage Railway	Work Description
Nov-22	Kent and East Sussex Railway	Plain line and drainage renewals utilising Rail Vac
Mar-23	Midland Railway Trust - Amberley	
Oct-23	West Somerset Railway	8-10 lengths plain line renewal through Crowhurst Station with drainage
Mar-24	Strathspey Railway - Aviemore	Turnout installation at Broomhill Station
Oct-24	Ecclesbourne Valley Railway - Derbyshire	TBC

