

Designer's Assumed Construction Sequence

Stage 1: Construction of elements that can be built whilst the existing railway line remains operational.

1. Reduce height of counterforts to make way for proposed portal frame pier 1
2. Remove cut water vehicle impact protection from existing pier 1. Structural foundation retained.
3. Construction of pier 1
4. Construction of South pad foundations to proposed combined walkway and utility trough over span 3.

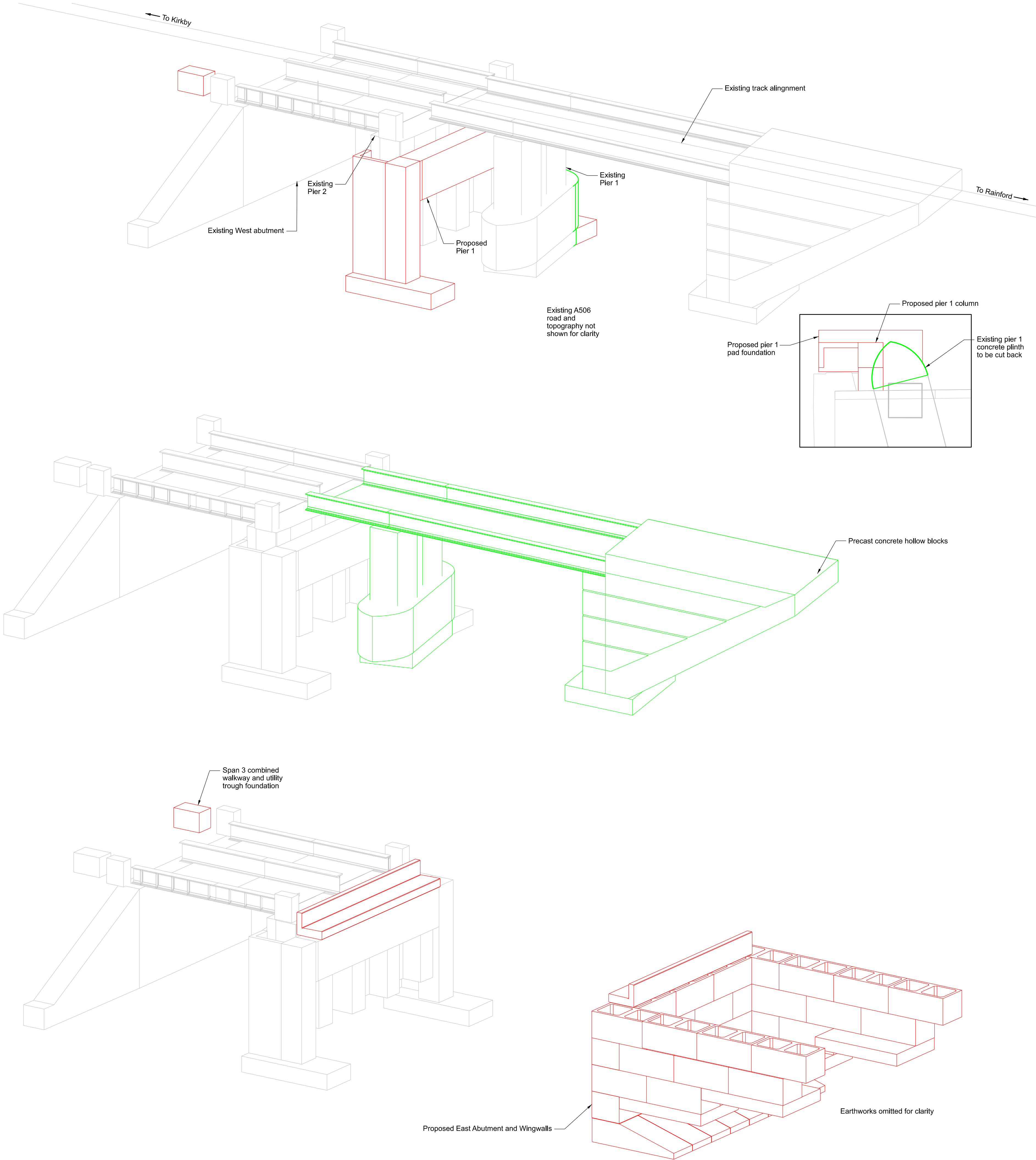
Note: Temporary works (e.g. shoring) are likely to be required for the excavation of the new foundations due to the proximity of the existing A506 and County Road.

Stage 2: Railway closure required to proceed with stage 2 works.

1. Temporary diversion of existing utilities over bridge.
2. Removal of existing track and ballast.
3. Removal of existing spans 1 and 2 decks
4. Excavation of existing East abutment approach embankment to allow for demolition of existing east abutment and construction of new abutment and wingwalls
5. Demolition of existing pier 1 and existing East abutment and wingwalls.

Stage 3:

1. Installation of the precast end cill beams over the proposed East abutment and Pier 1.
2. Installation of bridge bearings
3. Re-waterproofing of span 3. Carry out any required repairs or strengthening works.
4. Construction of back of wall drainage and backfill to east abutment. Installation of ballast retention boards over span 3.
5. Construction of the East abutment wall and wingwalls: Installation of the precast foundation pads and hollow blocks. Fixing of reinforcing steel within hollow blocks. Concreting of insitu walls formed within precast hollow blocks.
6. Construction of north pad foundation to proposed combined walkway and utility trough over span 3.



Legend/Notes

P01.1	26/10/21	First Revision	---	---	---
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status					Suitability

Work in ProgressS0



Authorised	---	Signed	---	Date	
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Contractor(s)

Ove Arup & Partners

Location/Level		No Specific Location	
Type	CAD Drawing	Sub-type	
Role	General (non-disciplinary)	Discipline	Multi-Functional
Volume/System	No Specific Volume or System		
Phasing	Proposed	Grip Stage	4

Headbolt Lane

Contract No.
170248

Contract Title
Headbolt Lane

Drawing Title
Planning Application Drawing
Underbridge 55
Construction Sequence Sheet 1

Designed		Signed	---	Date	
Drawn	---	Signed	---	Date	
Checked	---	Signed	---	Date	
Approved	---	Signed	---	Date	

Scale(s)	ELR & Mileage
As Shown	WKL2 28.1590 to 28.1590

Alternative Reference	Sheet
	of

Drawing Number	Revision
170248-15854-ZZ-ZZZ-DRG-Z-MF-243022	P01.1