

Union Canal

Pirleyhill Aqueduct Erosion

Erosion Protection and Repairs to Aqueduct Wing Walls

- 1 Establish compound and material storage areas.
- 2 Preliminary survey of downstream erosion to burn bed and wingwall erosion
- 3 Provide adequate towpath physical barriers and signage. Towpath users to be escorted through works by onsite staff, when safe to do so.
- 4 Identify / locate all services under ground and overhead ; in particular Sky Network Service; excavate and make good trial hand digs to determine locations
- 5 Establish access to north wing walls via existing canal towpath and path spur to west side of aqueduct, then an approach from the north adjacent to the existing watercourse ; including temporary removal and reinstatement of post and wire fencing, site clearance of vegetation and shrubs and trees and temporary hardcore access
- 6 Establish water control at north headwall structure and maintain for duration of works
- 7 Carefully remove failed concrete foundation from west section of headwall structure; provide temporary support if required, prepare area for new insitu concrete foundation repair
- 8 Concrete foundation repair/ replacement, including formwork, nominal reinforcing cage, dowelled connection to existing foundation, self compacting concrete as underpinned repair solution
- 9 Prepare burn bed for erosion protection measures, area approximately 6m wide x 8m long ; prepare formation, regulate bed with rip rap then ST2 blinding concrete as required
- 10 Supply and place galvanised reno gabion mattress, size approximately 6m wide x 8m long, depth 300mm , mattress filled with Class 6G gabion stone
- 11 Reinstates temporary access adjacent to burn and clear working area
- 12 Reinstates temporary compound and material storage areas and clear site