



Wall	Desc	Type	Total Length	Top of Wall Level (AOD)	Base Level (AOD)	Pedestrian Guardrail?	Other
A	North Bridge - West Abutment	Precast Segmental Box	16m	13.14	7.45		
B	North Bridge - East Abutment	Precast Segmental Box	16m	13.14	7.45		
C	North Bridge - Towpath Ret Wall	Pre-cast L Type	16m	10.44	7.95		Anchored to box culvert
D	South Bridge - West Abutment	Precast Segmental Box	16m	13.14	7.45		
E	South Bridge - East Abutment	Precast Segmental Box	16m	13.14	7.45		
F	South Bridge - Towpath Ret Wall	Pre-cast L Type	16m	10.44	7.95		Anchored to box culvert
G	North Bridge - NW Wing Wall	Contiguous Bored Pile 750 $\varnothing$	6m	13.44-10.94	-3.05		
H	North Bridge - SW Wing Wall	Contiguous Bored Pile 750 $\varnothing$	15m	13.44-10.94	-3.05	3 Rail Timber	BT service bridge trough to bear on
I	North Bridge - NE Wing Wall	Contiguous Bored Pile 750 $\varnothing$	12m	13.44-11.8	-3.05	3 Rail Timber	
J	North Bridge - SE Wing Wall	Contiguous Bored Pile 750 $\varnothing$	8m	13.44-10.94	-3.05	3 Rail Timber	BT service bridge trough to bear on
K	South Bridge - NW Wing Wall	Contiguous Bored Pile 750 $\varnothing$	6m	13.44-10.94	-3.05		
L	South Bridge - SW Wing Wall	Mass Concrete Modular Block	5m	13.44-10.94	7.45		
M	South Bridge - NE Wing Wall	Contiguous Bored Pile 750 $\varnothing$	11m	13.44-10.94	-3.05	3 Rail Timber	
N	South Bridge - SE Wing Wall	Mass Concrete Modular Block	5m	13.44-10.94	7.45	3 Rail Timber	
O	Canal Channel - Towpath Ret Wall	Pre-cast L Type	15m	10.44	7.24		Special angled unit at north interface
P	Canal Channel - Towpath Ret Wall	Mass Concrete Modular Block	64m	10.44	7.24		
Q	Canal Channel - Towpath Ret Wall	Pre-cast L Type	9m	10.44	7.24		Corner Unit Required
R	Canal Channel - East Embankment Wall	Mass Concrete Modular Block	70m	10.44	7.24		
S	Canal Channel - North Towpath Ret Wall	Pre-cast L Type	12m	10.44	7.24		
T	Canal Channel - South Towpath Ret Wall	Pre-cast L Type	5m	10.44	7.24		

**RESIDUAL DESIGN HAZARDS**

- Live traffic - Struck by moving vehicle
- Watercourse/ground water - Risk of drowning or unstable ground
- Unknown ground conditions or contaminants

- NOTES**
- Ground water expected at approx 10.0m AOD.
  - Recycled plastic fenders to be installed to protect boats from angled changes in retaining wall alignment. Detail to be confirmed.
  - 2 No Safety Ladders to be installed at the towpath retaining wall within the canal channel through the roundabout. Detail to be confirmed.
  - Area reserved for potential future pipeline/services, not to be obstructed by structures (minimum 1.7m width x 1.7m depth). Area may be filled with easily removal granular material or existing fill left in situ. Towpath fill to be compacted Type 1 granular fill with 50mm surface course consisting of compacted 12mm to dust.
  - Foundation Construction Type to be confirmed.
  - Carriageway reconstruction areas loosely based on a 1% approach and 2% fall away from the bridge deck. Detailed review and modelling in accordance with TD9 and TD16 to be undertaken during detailed design phase.
  - Boat dimensions = 22x5m
  - Allowance for bat boxes required
  - Preliminary pile arrangement is subject to detailed analysis and design
  - Structural Capacity requirements of new structures to be in accordance with BS EN 1991-2:2003 + UK NA. Load Model 3 vehicles to include SV80, SV100 and SV196
  - BT Service bridge to be supported on Contiguous Bored Piled Wall capping beam modified to suit required bearing levels.
  - Concrete blinding (where required) to consist of 100mm depth ST1 concrete with A.252 reinforcement mesh cut with 400mm laps at 40mm cover to base material.

0	FIRST ISSUE	MD	CM	CM	06/2019
Rev	Revision details	Drwn	Chkd	Appd	Date
Designed:	MD	Date:	05/2019		
Drawn:	MD	Date:	05/2019		
Checked:	CM	Date:	06/2019		
Approved:	CM	Date:	06/2019		

**ATKINS**  
Member of the SNC-Lavalin Group

Client  
**Gloucestershire**  
COUNTY COUNCIL

Project Name  
**A38/A419 Whitminster Roundabout Canal Restoration**

Drawing Title  
**Preliminary General Arrangement**

Original Drawing Size : A1 Scale : As Shown  
Dimensions : -

Drawing Status  
**FOR CONSULTATION** Suitability  
S0

Drawing No  
**D.518888.001** Rev  
0

