

(A) GENERAL This General Notes drawing is to be read in conjunction with the Specification for Highway Works and project appendices. Refer to the Specification, document no: NWF-ARP-ZZ-ZZ-SP-Z-0001. In case of discrepancies between this General Notes drawing and specific notes on individual drawings, the specific notes Refer to Designers Risk Assessment (document no NWF-ARP-ZZ-ZZ-RR-HS-0001) for relevant health and safety hazards. Standard abbreviations shown on the drawings are: Dia EGL FAL FGL FTL ID MJ NTS OD RC SOP TBC Typ UNO (B) LEVELS AND DIMENSIONS Global Co-ordinates are indicated by Eastings and Northings to OSGB36 grid. All levels are in metres relative to ODN (Ordnance Datum Newlyn) unless noted otherwise. All dimensions are in millimetres unless noted otherwise. All angles are in degrees unless noted otherwise. Do not scale from drawings. Work to figured dimensions only. All dimensions and levels are to be checked by contractor prior to construction. Any discrepancies in dimensions are to be referred to Designer before fabrication or progressing with further work. (C) SITE PREPARATION AND TEMPORARY WORKS The contractor shall satisfy themselves and be totally responsible for determining the exact location of services where they are within close proximity to the works. If the Contractor requires any additional trial pits or information, then these shall be agreed with the Principal Contractor and dug or obtained by the Contractor before commencement of the works. Where the Contractor proposes to cast any part of the temporary works into the permanent works, they shall first obtain the approval of the Principal Contractor. The Contractor shall probe the ground and break out and remove any hard obstructions to an appropriate depth at each pile location. The depth of probing shall be at least to the bottom of made ground. The construction sequence assumed in the design is shown on drawings NWF-ARP-ZZ-ZZ-DR-S-0001 to -0003. Where the Contractor proposes to make any change to the construction sequence, they shall first obtain the approval of the Designer. (D) CONCRETE Refer to Specification for Highway Works Series 1700 and project appendices, document no. NWF-ARP-ZZ-ZZ-SP-Z-0001. All concrete finishes shall be in accordance with Specification for Highway Works Series 1700 and the project appendices, document no. NWF-ARP-ZZ-ZZ-SP-Z-0001. Required finishes are shown on drawings, including details of architectural pattern finishes where required. All dimensions shown are structural dimensions of elements, excluding the architectural finish, unless noted otherwise. Nominal cover shall be maintained at grooves and architectural finishes. Where a formed finish is partly buried, the finish required on the exposed area shall continue to not less than 300mm below finished ground level. All construction joints shall be as shown on the drawings unless otherwise agreed with the Designer. The surfaces of all construction joints shall be treated to achieve a surface roughened to at least 3mm depth at 40mm spacing or equivalent and cleaned of any dust / laitance before undertaking the next pour. All concrete soffits that are cast against ground shall be protected with minimum of 75mm blinding unless specified otherwise External arrises shall be chamfered 25/25 unless noted otherwise. 10. Mass concrete shall be minimum C25/30 unless noted otherwise. 11. Refer to the Specification (document no. NWF-ARP-ZZ-ZZ-SP-Z-0001) for concrete grades and exposure classes for each element. Nominal covers are noted on reinforcement intent drawings.

Centreline

Diameter

Construction Joint

Full Tension Lap

Inner Diameter

**Movement Joint** 

Not To Scale

Outer Diameter

Setting Out Point

To be confirmed

Typical

Reinforced Concrete

Unless Noted Otherwise

Existing Ground Level

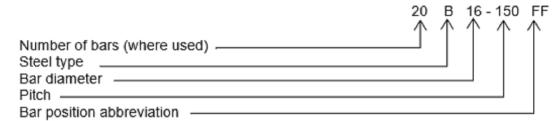
Full Anchorage Length

Finished Ground Level

### (E) REINFORCEMENT

- Refer to Specification for Highways Series 1700 and project appendices, document no. NWF-ARP-ZZ-ZZ-SP-Z-0001.
- Unless noted otherwise, normal reinforcement (B) shall be grade B500B complying with EN 10080 and BS 4449. All laps and anchorage lengths are to be in accordance with BS EN 1992-1-1:2014 and the UK National Annex.

Notation of bar reinforcement:

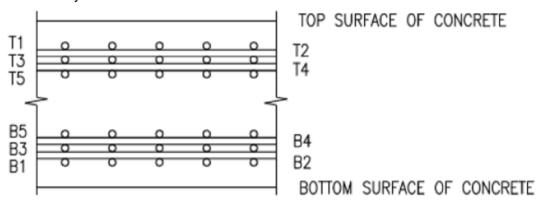


## Abbreviations used:

Т	Top (T1 closest to concrete surface)	
В	Bottom (B1 closest to concrete surface)	
AB	Alternate bars	
ABR	Alternate bars reversed	
ABS	Alternate bars staggered	
NF	Near face (NF1 closest to concrete surface)	
FF	Far face	
EF	Each face	
SF	Side face	
AP	Alternately placed	
NF and FF relate to reinforcement wall elevation drawings with NF being on the side of the wall facing the viewer and		

#### 6. Key to reinforcement layers:

FF the side farthest from the viewer.



7. Reinforcement detailed represents the minimum design requirement. Additional bars to aid fixing or stability of the cage shall be detailed by the contractor.

## (F) WATERPROOFING

- Refer to Specification for Highway Works Series 2000 and project appendices, document no. NWF-ARP-ZZ-ZZ-SP-Z-0001.
- Bridge deck waterproofing in accordance with CD358 to be applied in the locations shown on the drawings.
- Two coats of bituminous paint or approved equivalent in accordance with Specification for Highway Works Clause 2004 shall
- be applied to all buried surfaces. The bituminous paint shall stop 100m below final ground level. Immediately before the application of the primer or the layer of the waterproofing system or protective layer, the concrete surface or primed surface shall be clean, dry and free from ice, frost, loose aggregate, dust and other debris also where the

## (G) PILING

All Piles have been designed in accordance with Eurocode requirements (BS EN 1997 and BS EN 1992).

adhesion to the concrete would be impaired, free from curing liquids, compounds and membranes.

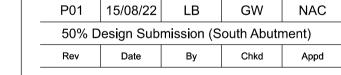
- Piling to be carried out in accordance with BS EN 1536, ICE Specification for Piling Works and Embedded Retaining Walls
- (SPERW) 3rd edition and the project appendices (document no. NWF-ARP-ZZ-ZZ-SP-Z-0001). Maximum installation tolerances for Piles are summarised in the table below:

	Plan	+/- 75mm
	Verticality	1:100
·		

- Monitoring of vibrations and ground movement to be undertaken in accordance with ICE SPERW and the project appendices (document no. NWF-ARP-ZZ-ZZ-SP-Z-0001).
- For pile integrity and load test requirements refer to the ICE SPERW and the project appendices (document no. NWF-ARP-ZZ-ZZ-SP-Z-0001).
- Temporary casing shall be withdrawn slowly and carefully whilst maintaining a positive head of concrete pressure, to reduce the risk of damage, inclusions, slumping or necking of piles.
- 7. Piles to be carefully hand trimmed. Any cracked or defective concrete shall be removed and the pile repaired in a manner to provide a full and sound section at cut off level. While cutting off and trimming pile to the specific level, the Contractor shall take care to avoid shattering or damaging the rest of the structural elements.
- Pile design subject to confirmation following site specific ground investigation. Top of rock level, and final pile toe level, to be agreed at each pile location
- 10. Where required, support fluids shall comply with the requirements of the ICE SPERW and the project appendices (document no. NWF-ARP-ZZ-ZZ-SP-Z-0001).

## (H) STEEL

To be added in a subsequent revision.



# **ARUP**

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New High-Level Wear Footbridge

Arup Job No

**General Notes** 

S-Structural

S3 Issued for internal review and commen

285151-00

NWF-ARP-ZZ-ZZ-DR-S-0004

Do not scale

P01