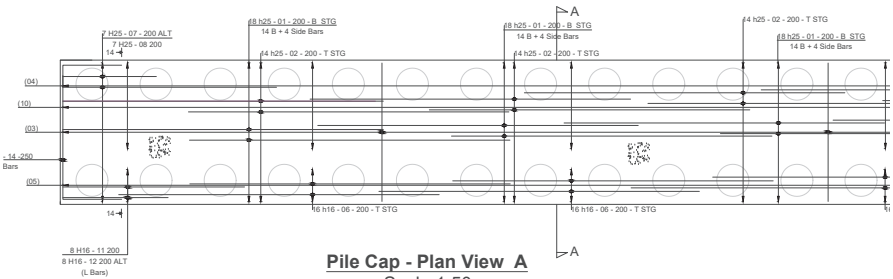
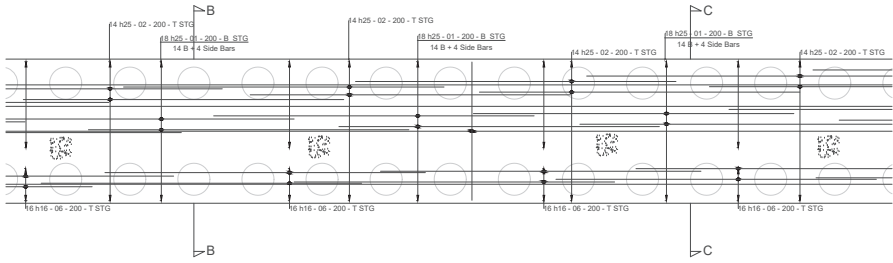


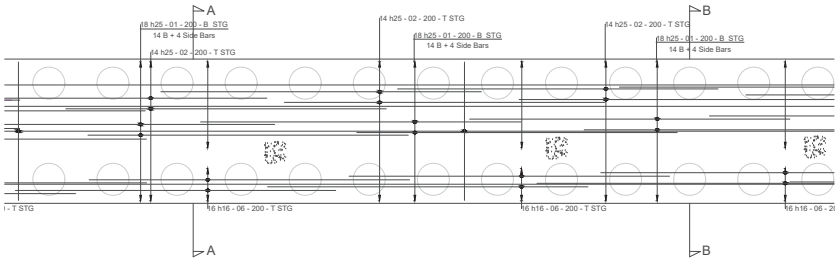
Pile Cap - Plan View
Scale 1:100



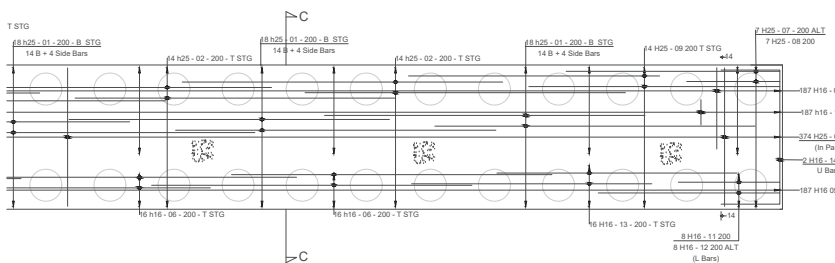
Pile Cap - Plan View A
Scale 1:50



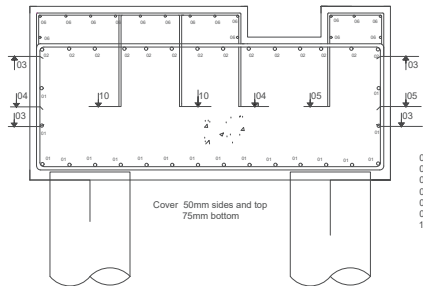
Pile Cap - Plan View B - C
Scale 1:50



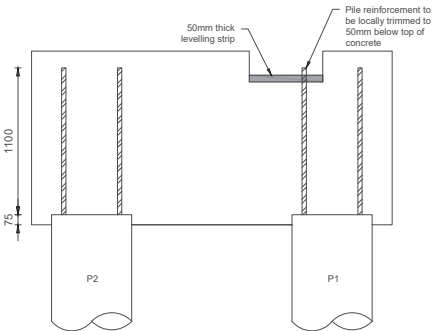
Pile Cap - Plan View A - B
Scale 1:50



Pile Cap - Plan View C
Scale 1:50



Pile Cap - Reinforcement
Scale 1:20



Typical Pile Reinforcement Section
Scale 1:20

Reinforcement schedule														Page 1 of 1	
Member	Bar Mark	Type and size	No. of bars	No. of bars in each	Total no.	Total length of each bar (m)	Shape code	A ¹ (mm ²)	A ² (mm ²)	C ¹ (mm)	C ² (mm)	D ¹ (mm)	D ² (mm)	Bar Ref	
Pile Cap	01	H25	2	126	252	6000	00	6000							
	02	H25	2	98	196	6000	00	6000							
	03	H25	2	376	748	4175	21	850	2660	880					
	04	H16	2	187	374	2875	21	700	1520	700					
	05	H16	2	187	374	1750	21	700	410	750					
	06	H16	2	86	172	6000	00	6000							
	07	H25	2	14	28	4200	21	1700	685	1750					
	08	H25	2	14	28	8750	21	4000	885	4000					
	09	H25	2	14	28	4750	00	4750							
	10	H16	2	187	374	1925	21	700	470	700					
	11	H16	2	16	32	2975	11	700	1900						
	12	H16	2	16	32	4075	11	700	2400						
	13	H16	2	16	32	4500	00	4500							
	14	H16	2	4	8	4600	21	1100	2610	1100					
This schedule conforms to BS 8000:2005.															
* Specified in multiples of 5 mm.															
Status: IP Preliminary T: Issued C: Construction															

Pile Cap Bar Bending Schedule © Byland Engineering Limited 2021

CDM 2015 :

The following presents a designers record of the significant hazards which are considered for the scope of this design. Routine hazards which should be managed by the main contractor are not listed.

Scope of design
The design of the reinforced pile cap of the beto bridge

Significant hazard assessment

No.	Description
1	Design strength capping beam must be in place before bulk excavation commences
2	
3	
4	

Suggested construction sequence

- Form piling platform
- Install piles
- Trim piles
- Form capping beam

NOTES :

General

All dimensions mm UNO

All elevations mOD UNO

Do not scale, use figured dimensions only

Piling

Piles to be installed in accordance with ICE Specification for piling and embedded retaining walls 3rd edition (2017) and the requirements of this drawing.

Concrete

Concrete and workmanship (including protection and curing after placement) to be in accordance with EN 206, BS8110 and BS8500.

Concrete for pile cap is C32/40.

Concrete for piles to be a designed mix supplied in accordance with EN 206-1:2000. Mix designs to be submitted for acceptance prior to commencement of work. Concrete is of normal weight with nominal maximum aggregate size 20mm, chloride content class C 0.20.

In accordance with BRE SD1 (2005) design concrete class is DC-1.

Reinforcing Steel

Ribbed reinforcing bars shall be grade B500B hot rolled and cold worked steel bars conforming to BS10080 and BS4449 and/or shall be cut and bent in accordance with BS8666. The bars shall be obtained from a firm holding a valid CARES (or fully equivalent scheme) certificate of approval. Bars shall be fixed in accordance with BS8110 Part 7. No bar shall contain a flash weld.

Minimum tension lap lengths to steel reinforcement :

Bars

25mm - 1275 mm Sides and Bottom

16mm - 1100mm Top

Pile General Arrangement

Refer to drawing 2231-001 for piling general arrangement and schedule.

REV	AMENDMENTS	DRAWN	CHECK	DATE



Van Elle

North Littlehampton

Reinforced Concrete Pile Cap Details

FOR COMMENT

REVISION	DATE	SCALE	DRAWING NUMBER
ISSUED	01/03/2021	AS SHOWN	2231-002
REVISION	01/03/2021	AS SHOWN	2231-002