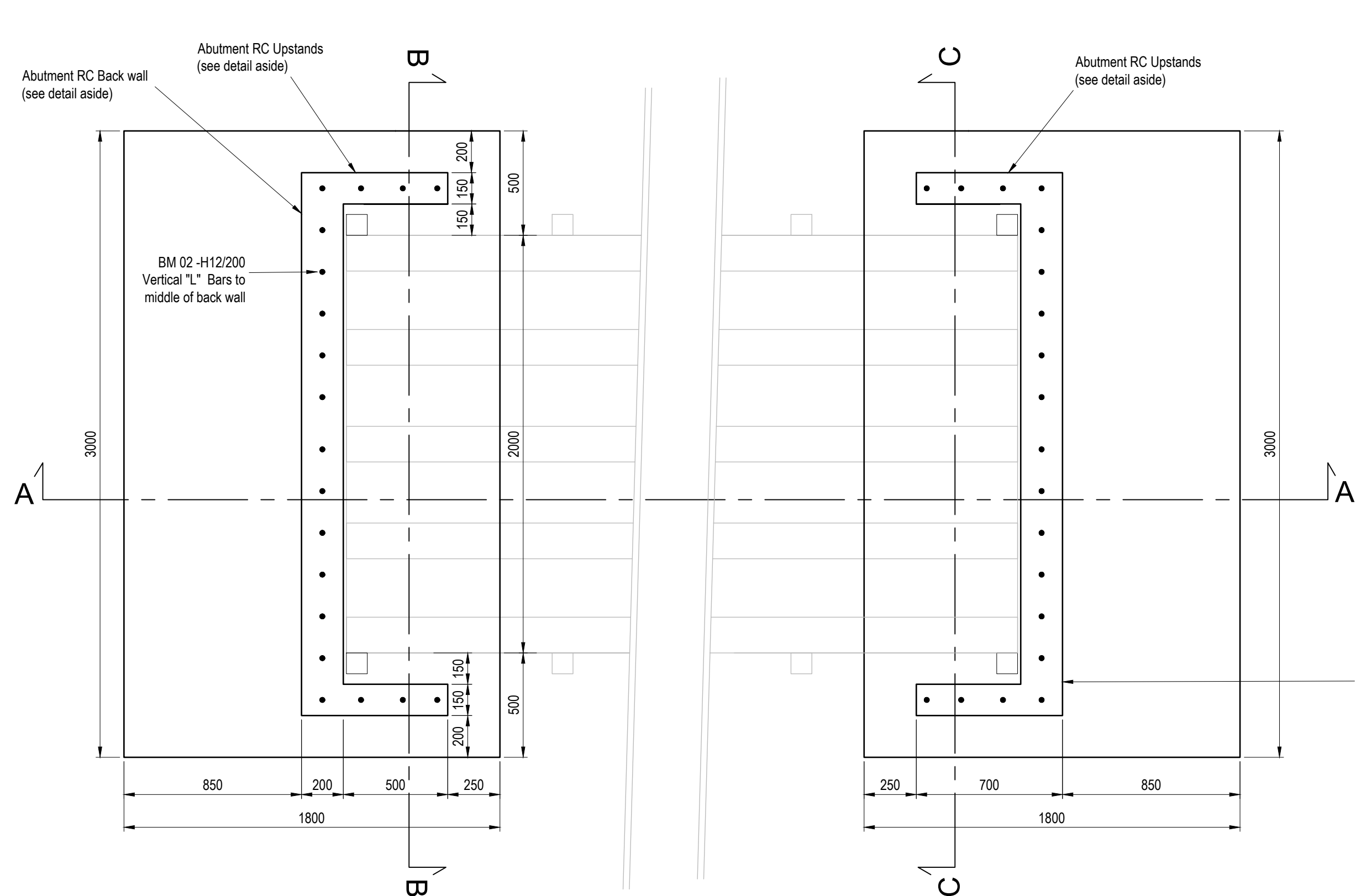




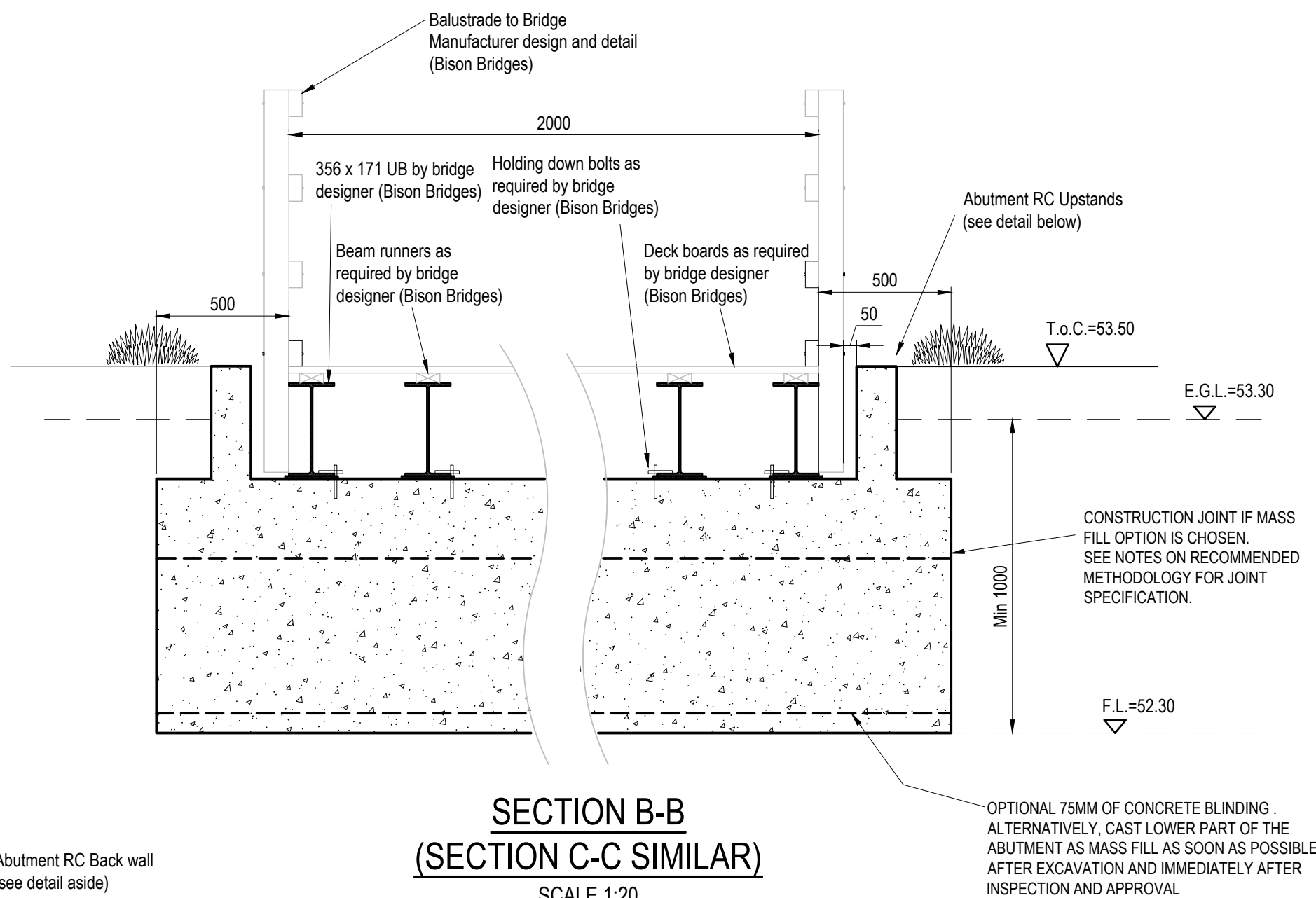
BRIDGE ABUTMENTS PLAN

SCALE 1:20

REBAR SCHEDULE FOR BRIDGE ABUDMENTS - PER ABUTMENT												
Bar Mark	Type & Size	No. of Mbrs	No. in Each	Total No.	Length of Each Bar †	Shape Code	A * mm	B * mm	C * mm	D * mm	E/R * mm	Rev
01	H10	1	3	3	3575	21	575	2450	575	-	-	-
02	H12	1	19	19	1000	11	600	(400)	-	-	-	-
This schedule complies with BS 8666:2005. Reinforcement in accordance with BS4449 scheduled as class H shall be ductility class A,B or C for bars up to and including 12mm diameter and ductility class B or C for larger bars												
* Specified in Multiples of 5mm.						† Specified in Multiples of 25mm.						

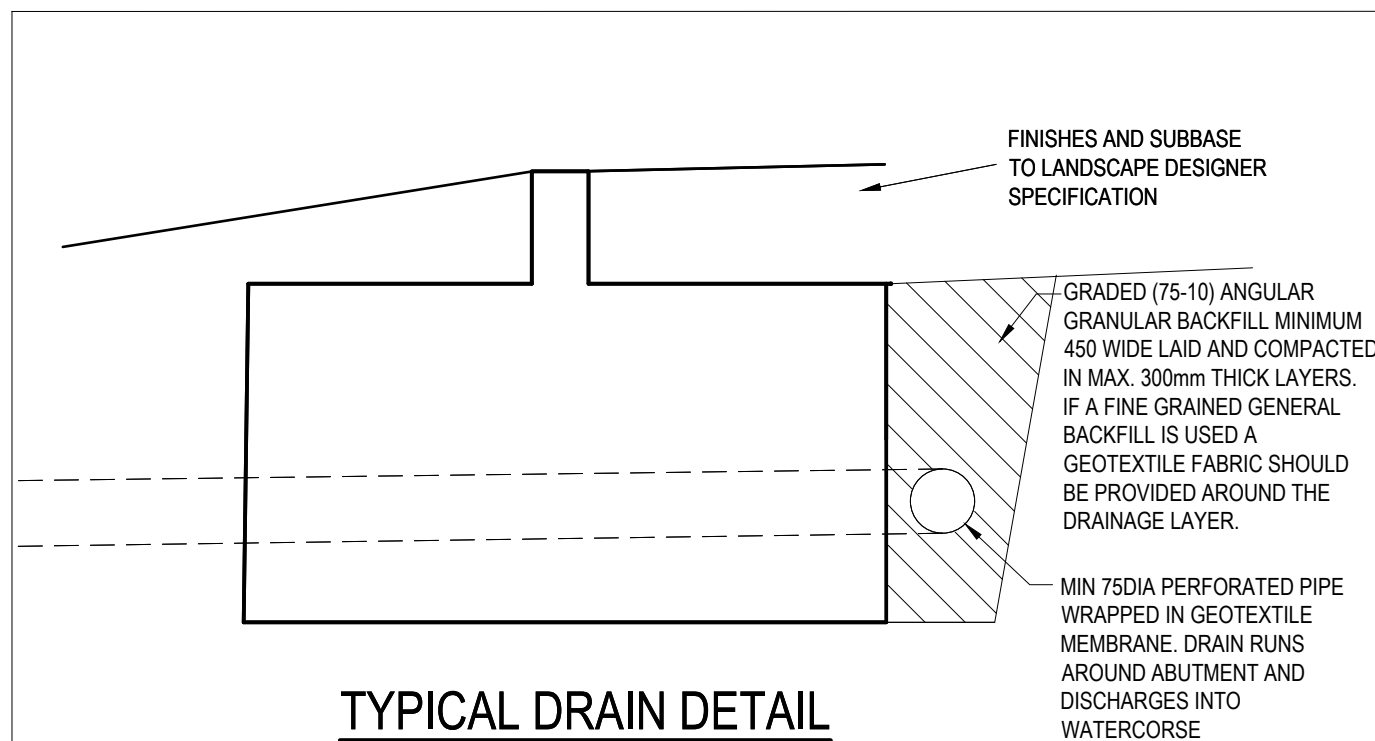
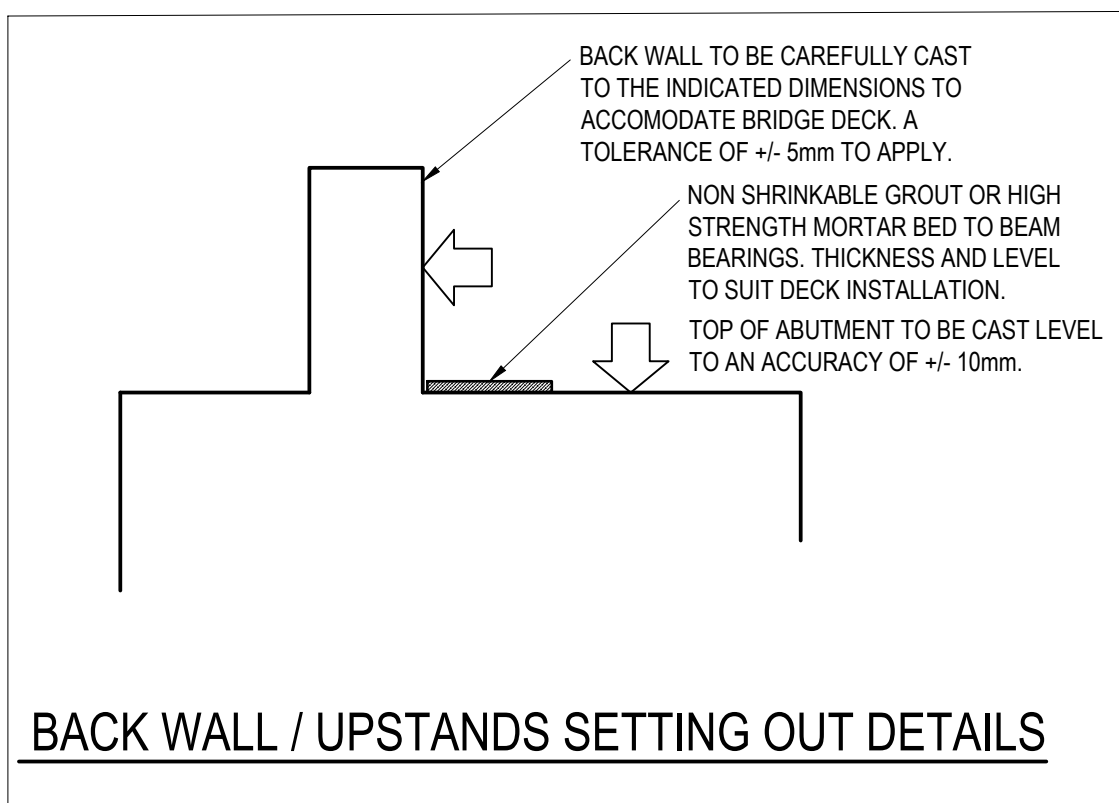
ALL LEVELS AND DIMENSIONS TO BE CHECKED AND CONFIRMED ON SITE BY CONTRACTOR PRIOR TO ANY CONSTRUCTION.

Bridge deck and balustrade details are indicative only. Refer to bridge designer / manufacturers details (Bison Bridges)

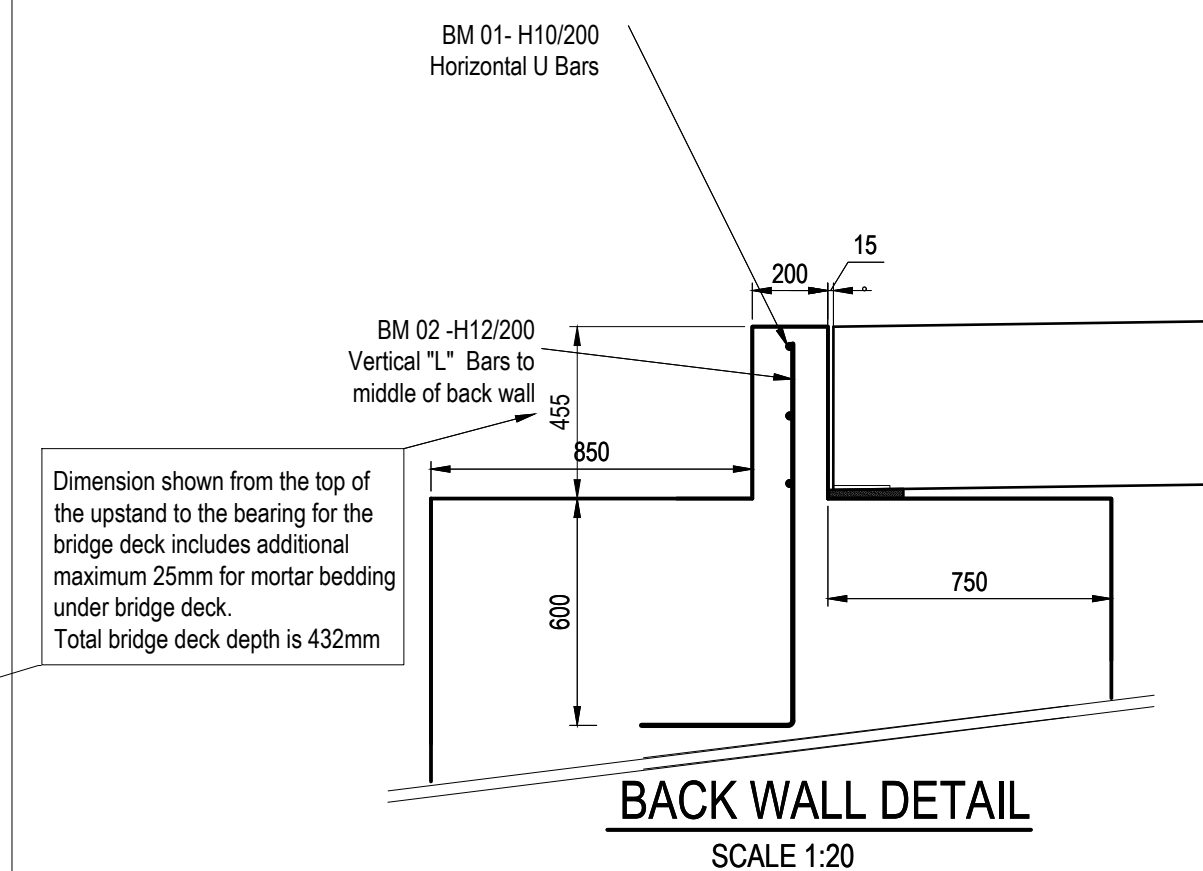


SECTION B-B
(SECTION C-C SIMILAR)

SCALE 1:20

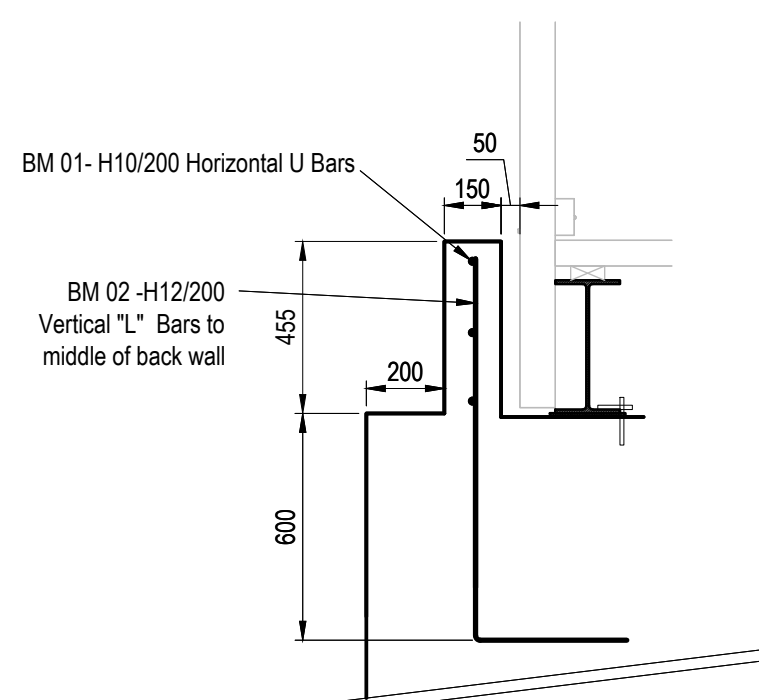


TYPICAL DRAIN DETAIL



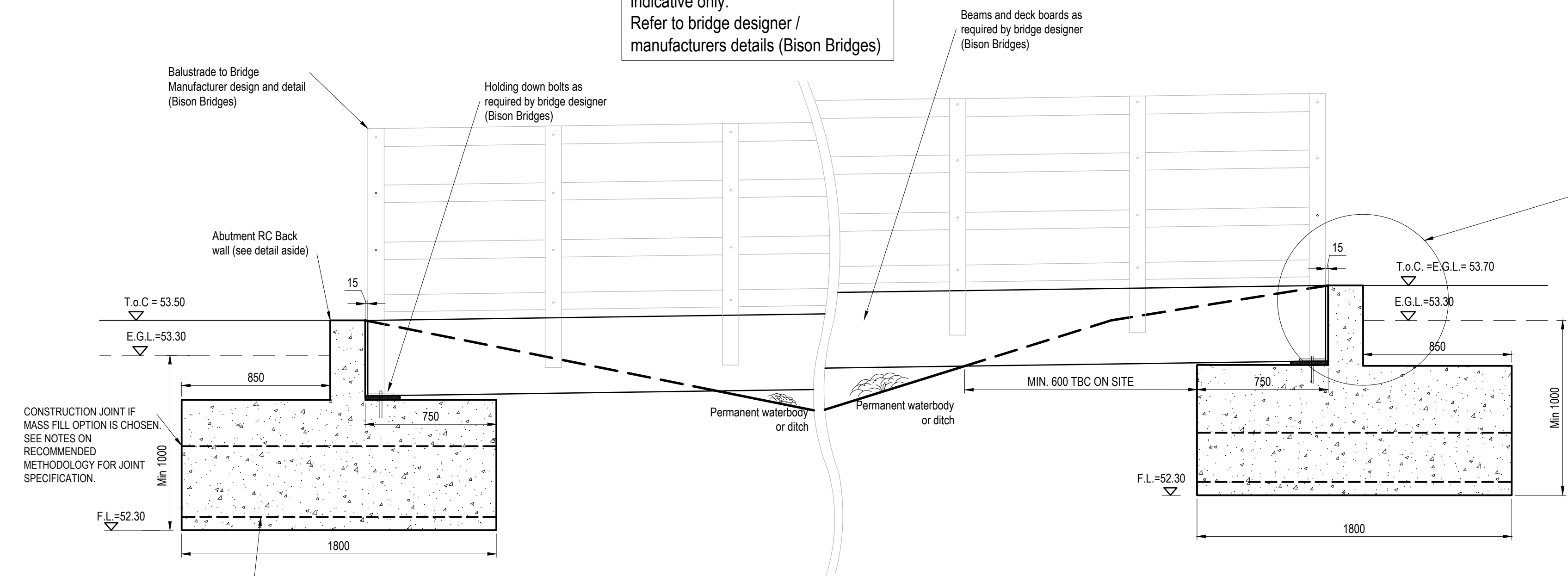
BACK WALL DETAIL

SCALE 1:20



SIDE UPSTAND DETAIL

SCALE 1:20



SECTION A-A

SCALE 1:20

RECOMMENDED METHODOLOGY

- IT IS ASSUMED THAT THE CONSTRUCTION OF THE BRIDGE ABUTMENTS WILL TAKE PLACE PRIOR TO FILLING AND FORMING THE FINAL PROFILE OF THE WATERCOURSES.
- ALL THE AREA TO BE STRIPPED OF TOPSOIL.
- EXCAVATION OF THE ABUTMENTS IS TO BE UNDERTAKEN TO THE MINIMUM INDICATED LEVELS ENSURING AT LEAST 1m DEPTH BELOW ORIGINAL/EXISTING GROUND LEVEL.
- FORMATION TO BE INSPECTED PRIOR TO PLACING CONCRETE. ANY DISTURBED GROUND OR SOFT SOILS TO BE EXCAVATED AND REPLACED WITH MASS CONCRETE.
- 75mm OF CONCRETE BLINDING TO BE PLACED OR ALTERNATIVELY, A GREATER DEPTH OF MASS CONCRETE CAN BE PLACED TO FORM THE LOWER PART OF THE ABUTMENT.
- IF A CONSTRUCTION JOINT IS FORMED, SCABBLE THE CONCRETE SURFACE BEFORE CAST OF FURTHER CONCRETE TO HIGHER PART OF THE ABUTMENT.
- ALL PERMANENTLY EXPOSED CONCRETE TO SURFACES TO BE FORMED USING SUITABLE FORMWORK TO PRODUCE A SMOOTH REGULAR SURFACE TO F2 OF THE SPECIFICATION FOR HIGHWAY WORKS (SECTION 1708).
- IT IS IMPORTANT THAT THE TOP OF THE ABUTMENT IS CAST TO THE REQUIRED ALIGNMENT AND LEVELS INDICATED ENSURING A SUITABLE TOLERANCE FOR INSTALLATION OF THE BRIDGE DECK.
- THE BACK WALLS AND UPSTANDS TO BE CAST WITH THE ABUTMENT WITH REINFORCING BARS AS INDICATED. ALTERNATIVELY, THEY CAN BE CAST AFTER THE ABUTMENT USING DRILLED DOWELS INTO THE TOP OF THE ABUTMENT ALL CONCRETE TO BE MECHANICALLY COMPACTED AND PROTECTED AS NECESSARY DURING CURING AGAINST FROST AND EXCESSIVE DRYING BY USE OF SUITABLE COVERS OR CURING COMPOUND.

BACKFILLING

- ALL BACKFILL TO THE REAR OF THE ABUTMENT SHALL BE WELL COMPACTED GRADED GRANULAR FILL (E.G. 6F2)
- BACKFILL TO BE LAID AND COMPACTED IN LAYERS OF MAX 300mm WITH A 2 TONS MAX ROLLER SIZE AS BOMAG 100 OR SIMILAR APPROVED.

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Notes

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- If received electronically it is the recipients responsibility to print to correct scale. Only written dimensions should be used.
- This drawing should be read in conjunction with all other relevant drawings and specifications.

Notes:

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DETAILS AND ALL RELEVANT SPECIFICATIONS.
- REFER TO JPP DISTRICT CENTRE PUBLIC OPEN SPACES ARBORFIELD, BERKSHIRE DRAWINGS SERIES WITH PROJECT REF NO 29556 AND DRG NO 101(1) FOR BRIDGE LOCATION DETAILS.

ABUTMENTS WALL NOTES

GROUND

- THE ABUTMENTS DESIGN REFERS TO THE GROUND INVESTIGATION REPORT CARRIED OUT BY WILSON BAILEY IN 2023 (REF. NUMBER J2252) WHICH STATES A GROUND BEARING CAPACITY OF 100kPa CAN BE ASSUMED AT A DEPTH OF 1m FROM EGL.

LIMITATIONS OF USE:

- THE ABUTMENTS DETAILS ON THIS DRAWING MAY ONLY BE USED TO PEDESTRIAN AND CYCLE ONLY BRIDGES WITH A MAXIMUM IMPOSED LOAD OF 5.0 kN/m².
- 10 kN/m² SURCHARGE AT THE BACK OF THE ABUTMENT HAS BEEN CONSIDERED TO ALLOW FOR SOIL COMPACTION
- BRIDGE USAGE CLASS FOR DYNAMIC ACTION ON PEDESTRIAN BRIDGES: B - SUBURBAN LOCATION LIKELY TO EXPERIENCE SLIGHT VARIATIONS IN PEDESTRIAN LOADING INTENSITY ON A OCCASIONAL BASIS.

UNREINFORCED CONCRETE

- UNREINFORCED CONCRETE TO BE DESIGNED FOR CLASS DS-1 AND ACEC CLASS AC-1, DESIGN CHEMICAL CLASS DC-1 TO B.R.E SPECIAL DIGEST 1. ALL CONCRETE IS TO COMPLY WITH THE REQUIREMENTS OF BS 8500.

REINFORCED CONCRETE

- ALL REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH BS 8110 AND BS5328.
- REINFORCED CONCRETE TO BASE TO BE C28/35 TO SUIT SULPHATE CLASS DS-1 AND ACEC CLASS AC-1 DESIGN CHEMICAL CLASS DC-1 TO B.R.E SPECIAL DIGEST 1.
- MESH REINFORCEMENT TO BE GRADE 485 TO BS 4483 LOOSE BARS TO BE GRADE 500 TO BS 4449.
- LAP LENGTHS TO BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
 - H10 Bars = 400mm (minimum)
 - H12 Bars = 480mm (minimum)
- ALL LAP LENGTHS TO BE BASED ON THE SIZE OF THE SMALLER BAR.
- MINIMUM COVER TO REINFORCEMENT TO BE 75mm WHERE CONCRETE IS CAST DIRECTLY AGAINST THE EARTH. ELSEWHERE MINIMUM COVER TO REINFORCEMENT TO BE 50mm.

DEPTH OF FOUNDATIONS

- MINIMUM 1000mm BELOW EXISTING GROUND LEVEL (E.G.L.) AND FINAL PROPOSED GROUND LEVEL (P.G.L.) THE MINIMUM DEPTH WHICH MAY HAVE TO BE INCREASED TO TAKE ACCOUNT OF LOCAL GROUND CONDITIONS.

A	First Issue	ME	PA	04.03.26
Rev	Description	By	Apr	Date



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Project District Centre,
Footbridges/Boardwalk Details

Title Pedestrian Bridge and
Abutment Details

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Task Team Manager PA	Information Author ME	Task Information Manager ME

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