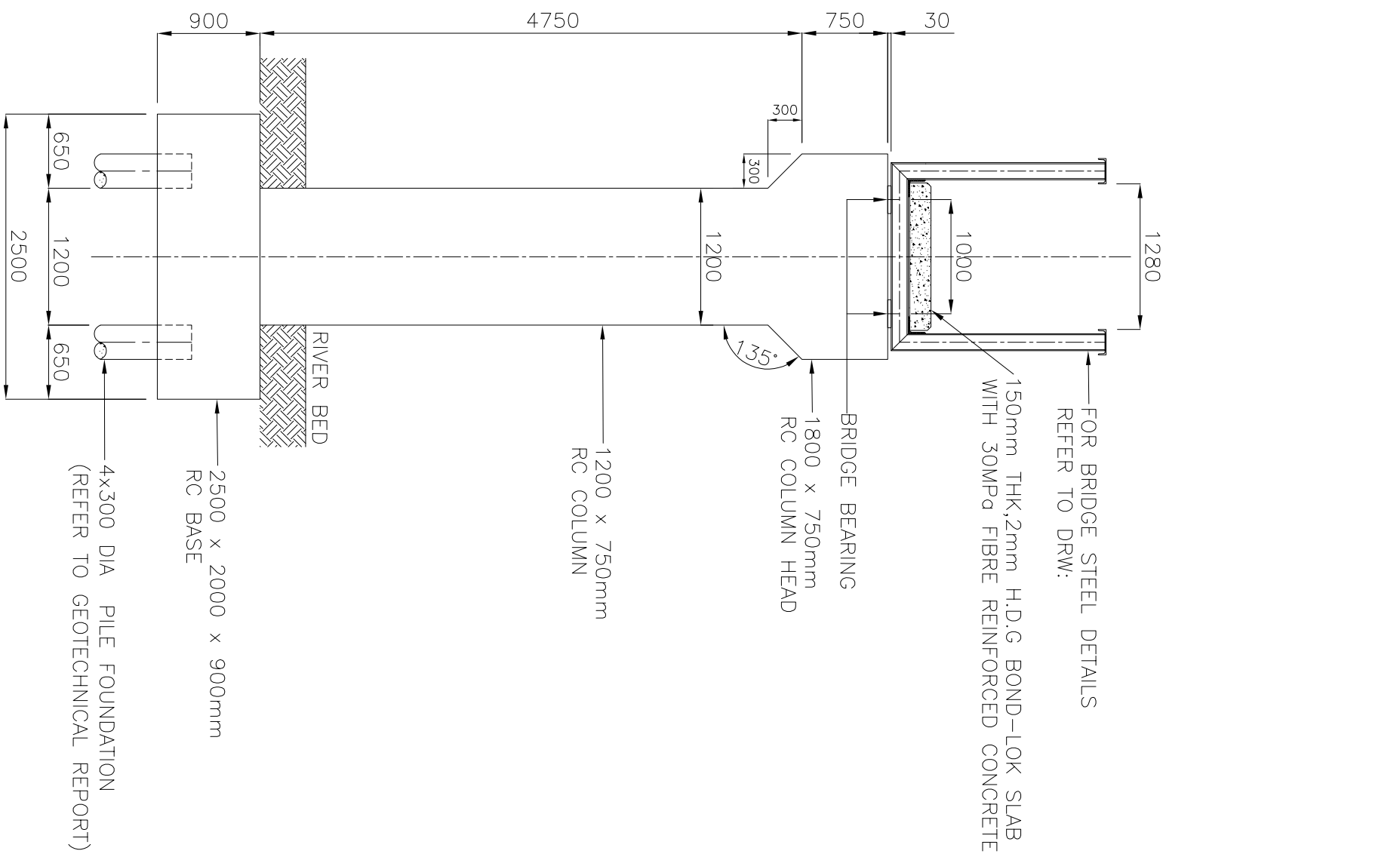
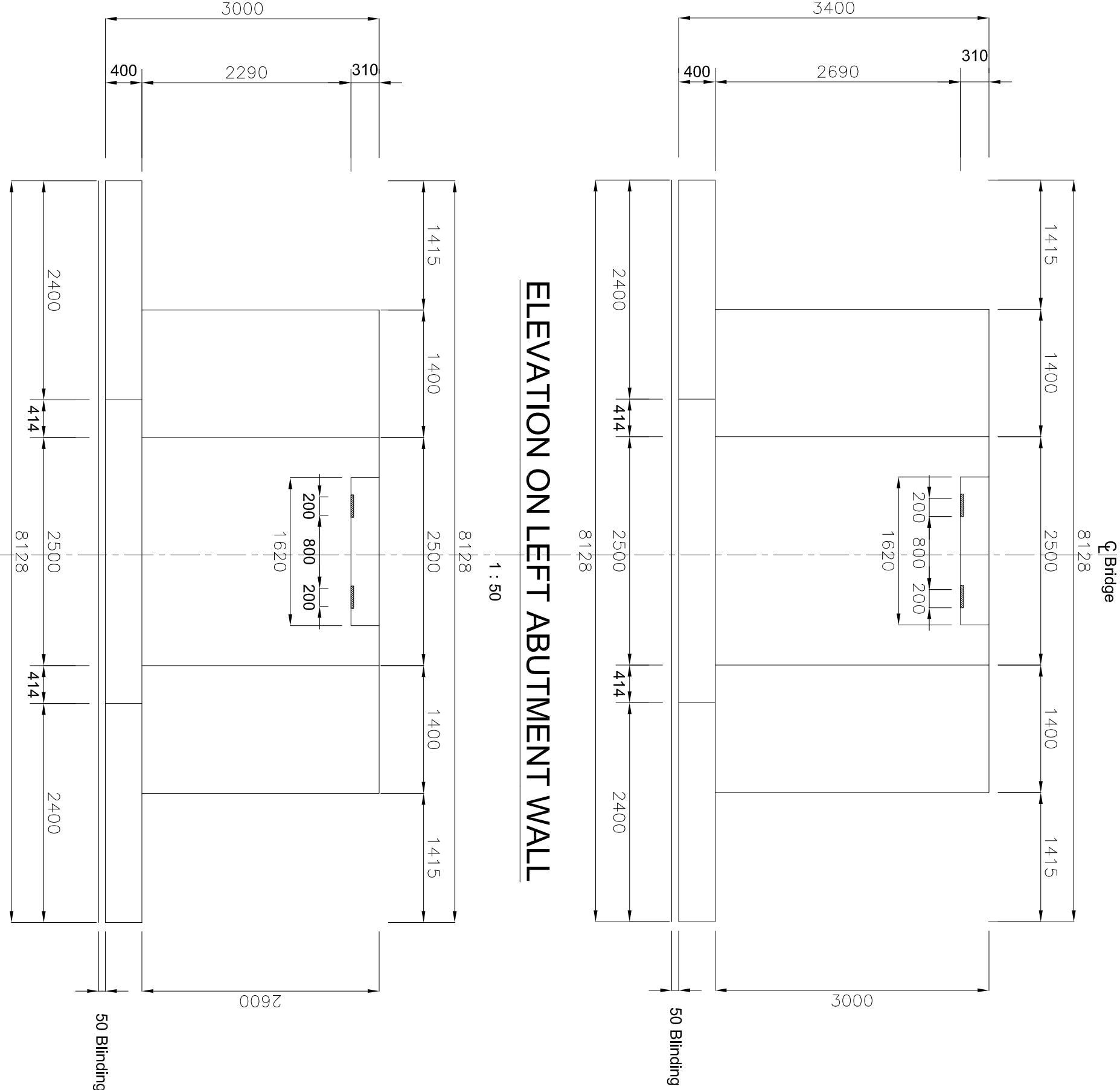


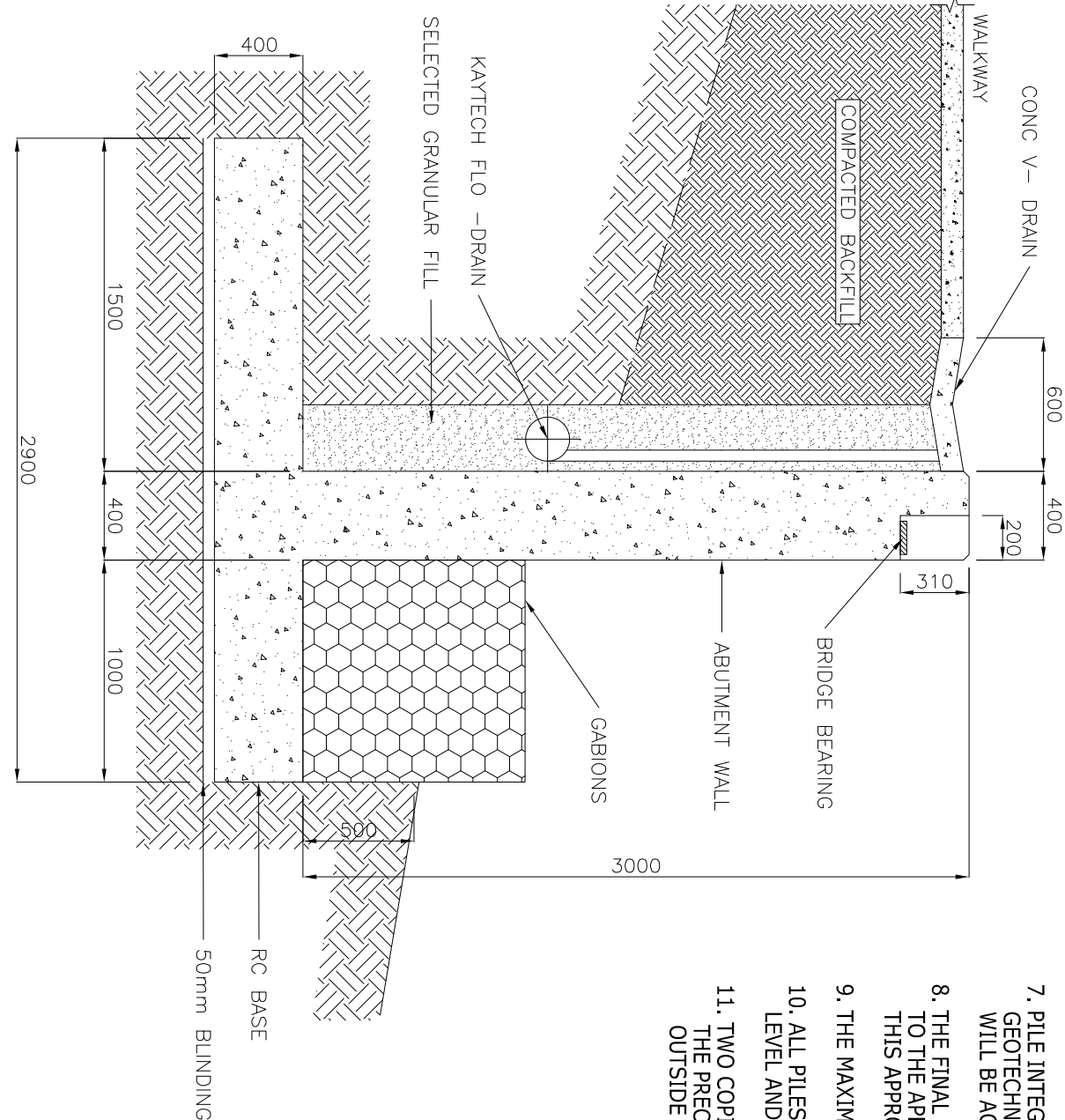
SECTION B-B
SCALE 1:100



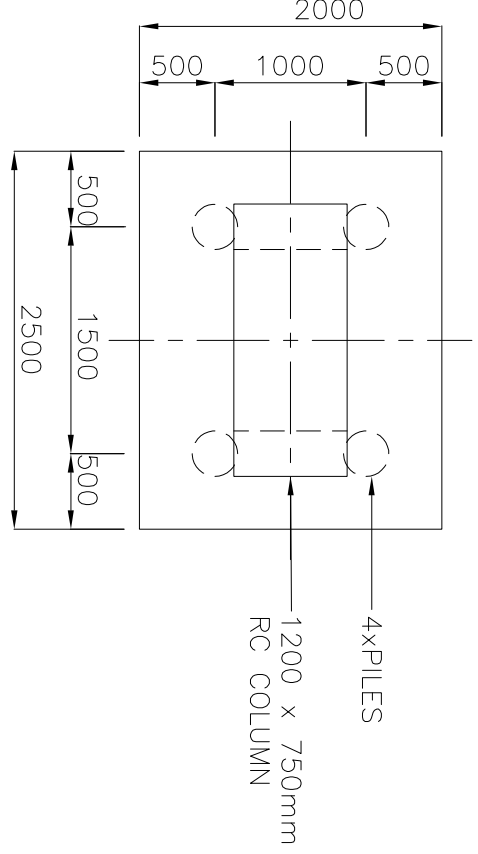
ELEVATION ON LEFT ABUTMENT WALL
SCALE 1:50



ELEVATION ON RIGHT ABUTMENT WALL
SCALE 1:50

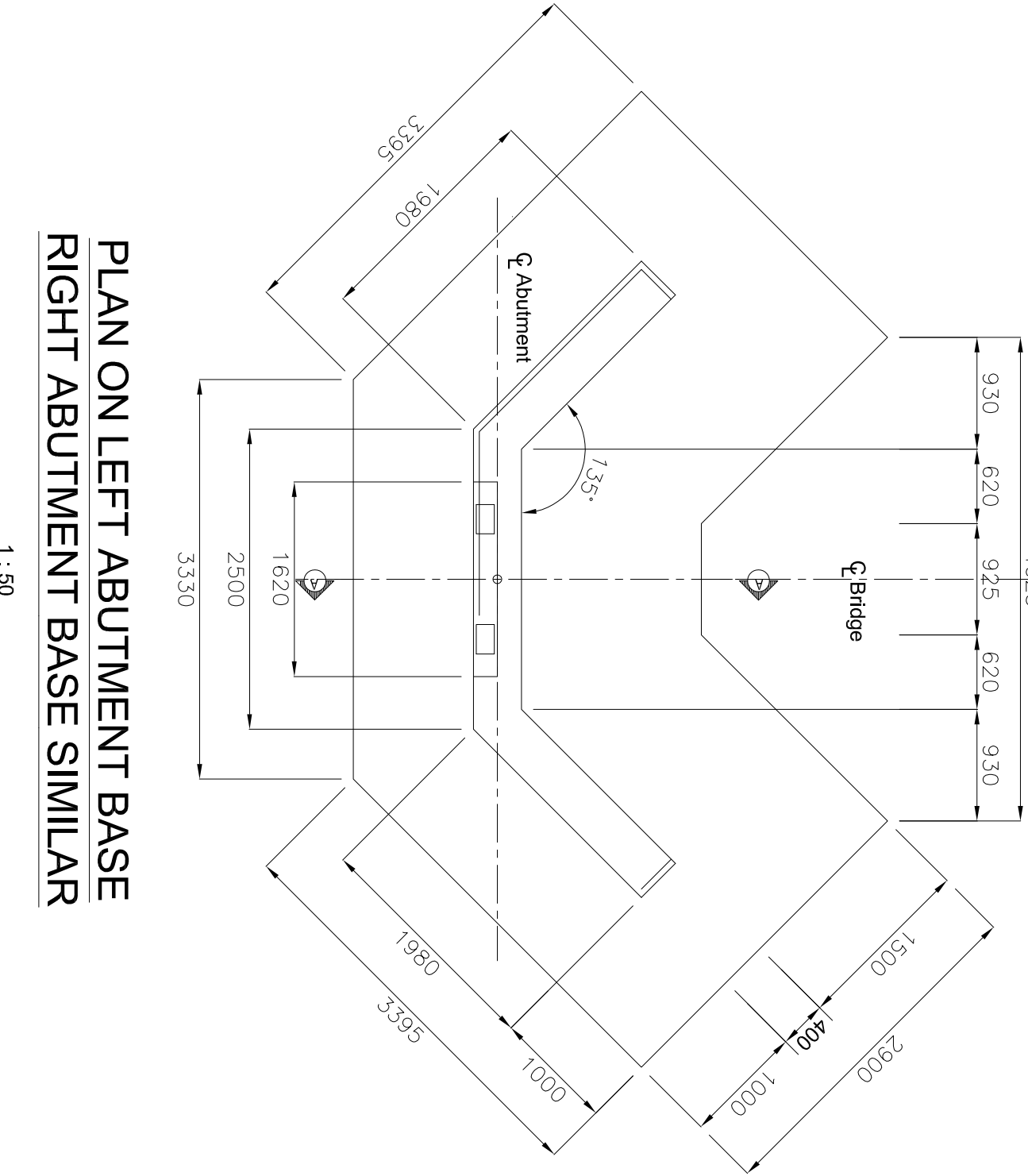


ABUTMENT WALL DETAIL
SCALE 1:25

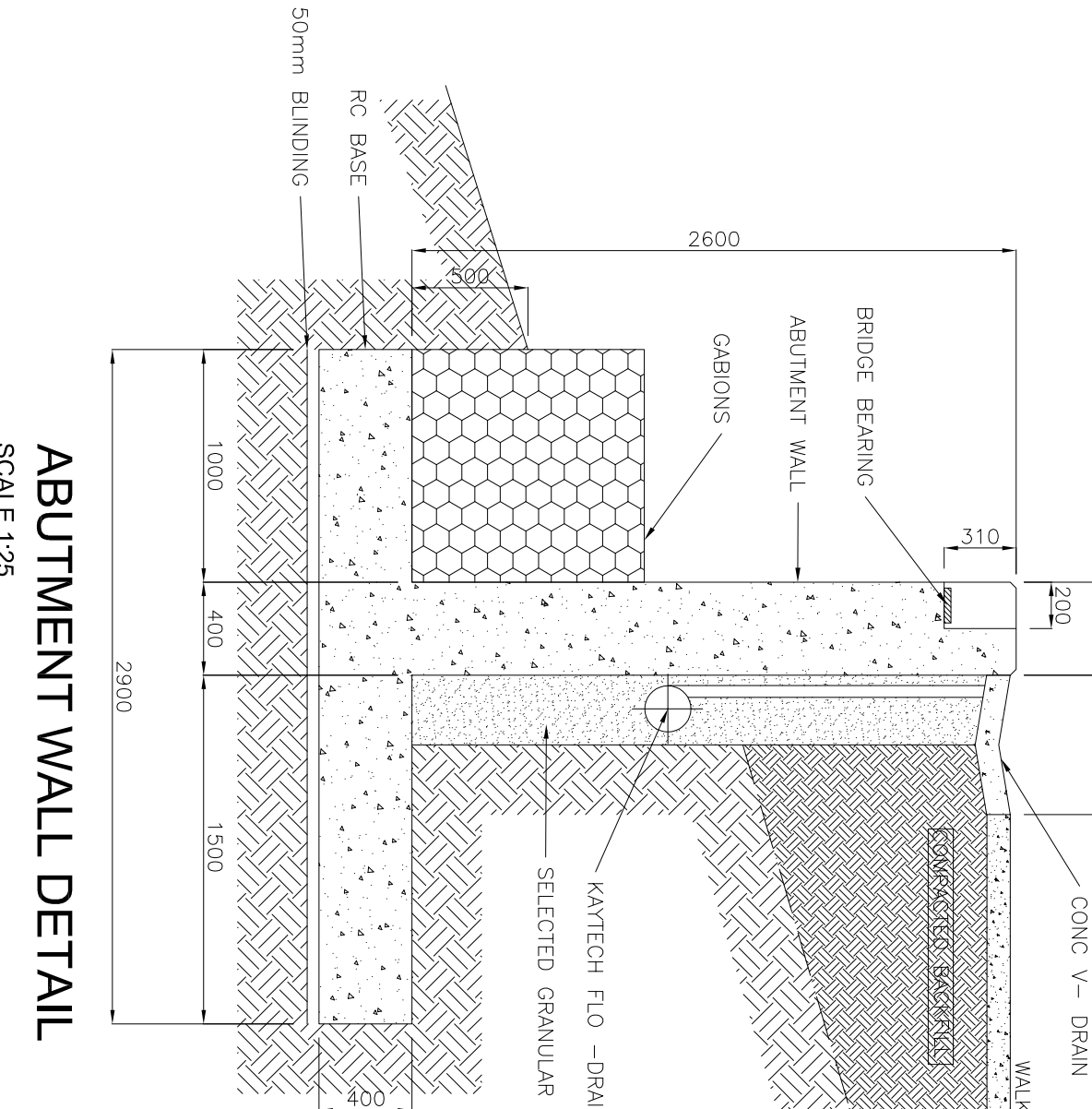


PLAN VIEW
COLUMN DETAIL
SCALE 1:30

PILE LOADS (PER PILE)	
FORCE DIRECTION	MAX FORCE (kN)
VERTICAL (DOWNWARDS)	375
VERTICAL (UPWARDS)	150
HORIZONTAL	100



PLAN ON LEFT ABUTMENT BASE
RIGHT ABUTMENT BASE SIMILAR
SCALE 1:50



ABUTMENT WALL DETAIL
SCALE 1:25

PILE NOTES:-

1. PILING TO BE CARRIED OUT IN ACCORDANCE WITH SABS 1200F.
2. THE RESPONSIBILITY FOR THE DESIGN AND PERFORMANCE OF ALL PILES SHALL LIE WITH THE PILING CONTRACTOR AND THE PILING CONTRACTOR SHALL SUPPLY A PILING GUARANTEE OR A PILING LIABILITY INSURANCE POLICY IN THIS REGARD. THE PILING GUARANTEE OR A PILING LIABILITY INSURANCE POLICY IS TO BE IN PLACE FOR A MINIMUM PERIOD OF 3 YEARS AFTER THE FINAL PILE HAS BEEN INSTALLED.
3. THE PILING LIABILITY INSURANCE POLICY SHOULD HAVE INSURANCE COVER FOR THE FOLLOWING SECTIONS :-
 - a) PUBLIC LIABILITY COVER
 - b) PRODUCT AND DEFECTIVE WORKMANSHIP LIABILITY COVER
 - c) FOUNDATION FAILURE/INDEMNITY COVER
 - d) PRODUCTS AND DEFECTIVE WORKMANSHIP LIABILITY COVER
4. CONCRETE STRENGTH FOR ALL PILES AT 28 DAYS IS 30 MPa. CONCRETE CUBE TESTS TO BE CARRIED OUT ON PILE GROUT FOR EVERY 20 PILES INSTALLED. 6 CUBES TO BE TAKEN AFTER EVERY 20 PILES INSTALLED (3 CUBES TO BE TESTED AT 7 DAYS AND 3 CUBES TO BE TESTED AT 28 DAYS). RESULTS OF THE CUBE TESTS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
5. THE PILING LAYOUT SHALL CONSIST OF 250MM DIAMETER CFA PILES AS SHOWN ON DRAWING NUMBERS 16-005-200 AND 16-005-201. THE SAFE WORKING LOADS PER 250 DIAMETER CFA PILE SHALL BE 250KN.
6. PILE CUT-OFF TO BE 50mm ABOVE SOFFIT OF PILECAP WITH 500mm REBAR PROTECTION.
7. PILE INTEGRITY TESTING IS TO BE CARRIED OUT ON ALL PILES BY INDEPENDENT GEOTECHNICAL ENGINEER. NO IN-HOUSE INTEGRITY TESTING BY PILING CONTRACTOR WILL BE ACCEPTED.
8. THE FINAL PILING DESIGN IS TO BE SUBMITTED BY THE PILING CONTRACTOR TO THE APPOINTED GEOTECHNICAL ENGINEER FOR APPROVAL. THE COST FOR THIS APPROVAL PROCESS IS TO BE PROVIDED FOR BY THE PILING CONTRACTOR.
9. THE MAXIMUM PERMISSIBLE DEVIATION OF THE PILE POSITIONS SHALL BE 50mm.
10. ALL PILES ARE TO BE NEATLY TRIMMED TO PILE CUT-OFF LEVEL. TOP OF PILES TO BE LEVEL AND SMOOTH.
11. TWO COPIES OF LOCATION DRAWING SIGNED BY THE PILING CONTRACTOR SHOWING THE EXACT POSITION OF EVERY PILE SHALL BE SUBMITTED TO THE ENGINEER. ANY PILE OUTSIDE THE TOLERANCE LIMITS SPECIFIED SHALL BE CLEARLY HIGHLIGHTED.

GENERAL NOTE:

1. ALL DIMENSIONS, INCLUDING SETTING OUT, TO BE VERIFIED ON SITE BY CONTRACTOR AND ALL DISCREPANCIES TO BE
2. ALL CONSTRUCTION/MANUFACTURING TO BE IN ACCORDANCE WITH SABS 1200, SABS 0400 AND LOCAL AUTHORITY BUILDING REGULATIONS.
3. ALL DIMENSIONS IN mm, UNLESS OTHERWISE NOTED. THE GENERAL NOTES MUST BE READ IN CONJUNCTION WITH THE CONTRACT DOCUMENTS AND OTHER RELEVANT NOTES ON DRAWINGS.

CONCRETE WORK:

1. ALL CONSTRUCTION MUST COMPLY WITH SABS 1200 SERIES SPECIFICATION.
2. ALL MASS CONCRETE TO ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 20MPa AT 28 DAYS.
3. ALL STRUCTURAL CONCRETE TO ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 30MPa AT 28 DAYS.
4. ALL CONCRETE TO BE COMPACTED AFTER PLACING.
5. ALL CONCRETE MUST BE ALLOWED TO CURE FOR AT LEAST 7 DAYS UNDER DAMP CONDITIONS OR WITH APPROVED CURING COMPOUND.
6. MINIMUM TIME FOR THE REMOVAL OF FORMWORK AS PER SABS 0100-2 TABLE 2.
7. TEMPORARY PROPS FOR THE REMOVAL OF FORMWORK AS PER SABS 0100-2 TABLE 2.
8. NO CONCRETE MAY BE POURED PRIOR TO THE APPROVAL OF ALL REINFORCEMENT BY THE ENGINEER.
9. ALL DIMENSIONS TO COMPLY WITH SABS 1083:194 FOR 19mm (NOMINAL).
10. ALL ADJUTURES TO BE APPROVED BY ENGINEER.
11. CONCRETE SURFACE FINISHES TO BE IN ACCORDANCE WITH SABS 1200GG FORMED SURFACES AND AS PER ARCHITECT'S SPEC.
12. STEPPED FOUNDATIONS TO OVERLAP AS INDICATED IN SABS 0400.

PROJECT DIKWE PEDESTRIAN BRIDGE		RAY NKONYENI Municipality P.O. BOX 5 FRIEDMAN, 3980 TEL: (053) 789 7151 FAX: (053) 789 4270 EMAIL: admin@spkengineers.co.za	
DESIGNED BY F.P. APPROVED BY R.S.M.		DATE 25-10-2018 PAPER SIZE A1 REV. 00	
DISCIPLINE CIVIL PROJECT No. SPK107 CE-DRM-107-002		SCALE AS SHOWN PROJECT STATUS 00	
INFORMATION TENDER X CONSTRUCTION X AS BUILT X		THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE SPECIFICATION DOCUMENT	