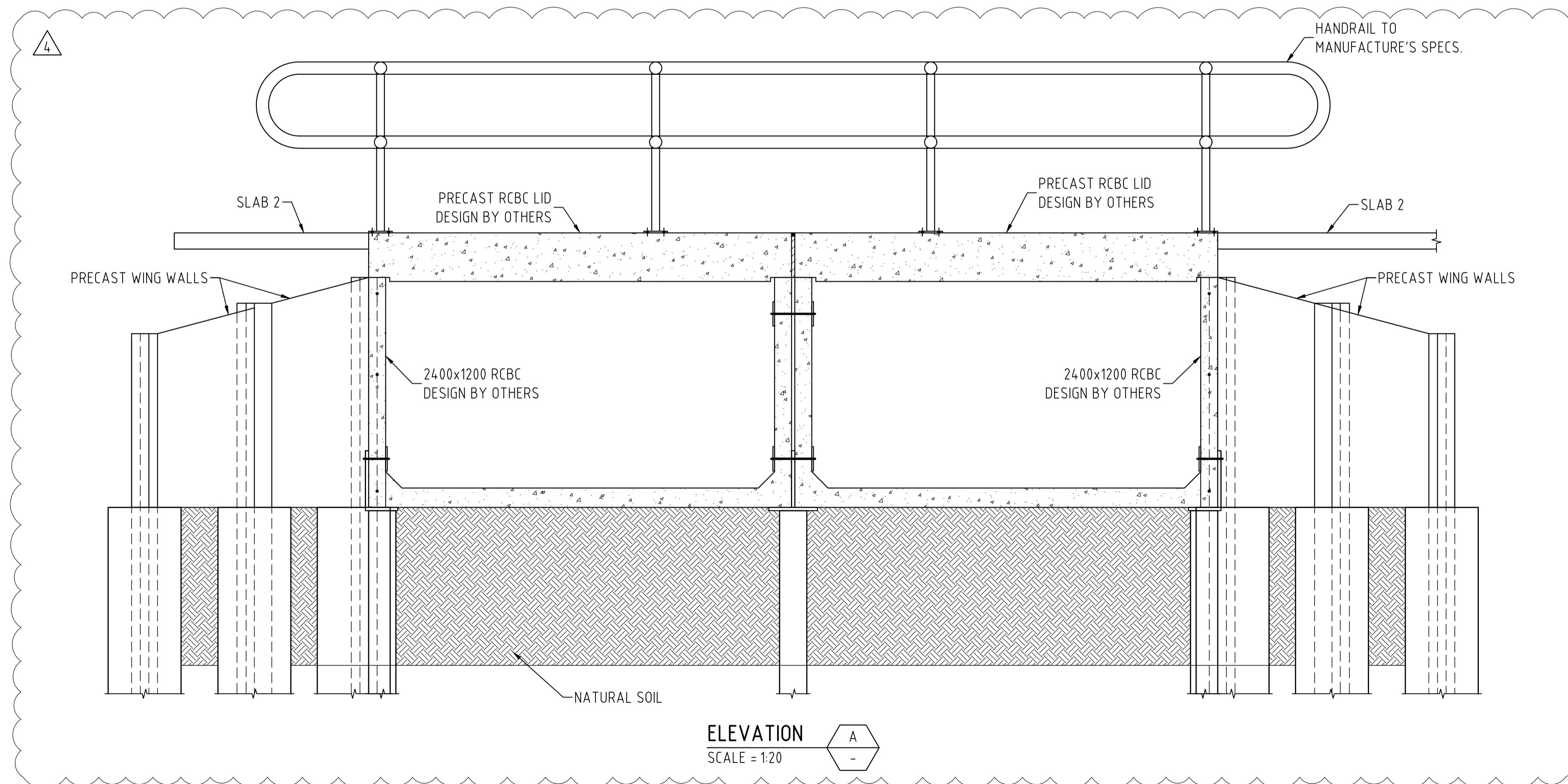


NOTE: CONFIRM DIMENSIONS WITH RCBC SIZES

○ DENOTES SCREW PILE



**GEOTECHNICAL NOTES**

1. THESE SLABS AND FOOTINGS HAVE BEEN DESIGNED FOR A CLASS "P" SITE AS DEFINED BY AS2870-2011, BASED UPON GEOTECHNICAL REPORT BY ENVIROWEST CONSULTING PTY LTD, REFERENCE R10025g DATED 4/9/2018 DUE TO THE PRESENCE OF UNCONTROLLED FILL UP TO 2.2m IN DEPTH.

**SLAB NOTES**

- A) SLAB 1
1. CONCRETE EXPOSURE CLASSIFICATION = A2 TO AS3600-2018
  2. 100mm THICK (T) SLAB PANEL REINFORCED WITH ONE LAYER SL82 MESH TOP WITH 30mm COVER
  3. CONCRETE IS TO BE GRADE N32 (32 MPa STRENGTH AT 28 DAYS)
  4. BASE PREPARATION: MIN. 200mm HARD-CORE BASE (DGB20 OR SIMILAR APPROVED) COMPACTED IN 150mm LAYERS TO 98% STANDARD. COMPACTION.

**SLAB LOADING NOTES**

1. DEAD LOADS:
  - A) SELF WEIGHT OF CONCRETE
2. LIVE LOADS:
  - A) FOOTPATH = 5.0 kPa TO AS1170.1 - 2002
  - B) VELOCITY = 2m/s
  - C) 5.0kPa CLASS B RETAINING WALL TO AS4678 - 2002
3. SCREW PILE ULTIMATE LOAD = 97kN
4. EARTH LOADS:
  - A) BACKFILL SOIL PROPERTIES:
    - i)  $K_a = 0.35$
    - ii) DENSITY = 18kN/M<sup>3</sup>

**STRUCTURAL STEELWORK DURABILITY NOTES**

1. ATMOSPHERIC CORROSIVITY CATEGORY C3 TO AS4312-2019:
  - A) ALL STEELWORK: HDG320 TO AS4680-2006.

**BORED PIER NOTES**

1. CONCRETE EXPOSURE CLASSIFICATION = A2 TO AS3600-2018
2. CONCRETE IS TO BE GRADE N25 (25 MPa STRENGTH AT 28 DAYS AGE)
3. PIER DEPTH & WIDTH AS PER RELATIVE DETAILS
4. PIER REINFORCEMENT AS SPECIFIED IN RELEVANT DETAILS WITH 50mm COVER
5. SERVICES TO BE PLACED IN A 300mm WIDE x 450mm DEEP TRENCH A MINIMUM OF 600mm FROM EDGE OF BUILDING TO AVOID UNDERMINING OF FOOTINGS.

**PRECAST CONCRETE WING WALL NOTES**

1. CONCRETE EXPOSURE CLASSIFICATION = B1 TO AS3600-2018
2. CONCRETE IS TO BE GRADE N32 (32 MPa STRENGTH AT 28 DAYS AGE)
3. WALL HEIGHT & WIDTH AS PER RELATIVE DETAILS
4. WALL REINFORCEMENT AS SPECIFIED IN RELEVANT DETAILS WITH 40mm COVER
5. CONCRETE EDGES SHALL BE CHAMFERED 15mm x 15mm TYPICAL

**LEGEND**

- Cjx — DENOTES CONSTRUCTION JOINT
- ss — ss — DENOTES SUBSOIL DRAINAGE LINE
- SP1 DENOTES SCREW PILE
- BP1 DENOTES BORED PIER

**CONCRETE NOTES**

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600-2018, FORMWORK TO AS3610.1-2018
2. CONCRETE SHALL NOT BE POURED WHEN THE AIR TEMPERATURE IS GREATER THAN 38 DEGREES, NOR LESS THAN 5 DEGREES CELSIUS WITHOUT APPROVAL FROM THE ENGINEER.
3. NO ON SITE WATER IS TO BE ADDED TO THE CONCRETE WITHOUT PERMISSION FROM THE ENGINEER.
4. THE USE OF CALCIUM CHLORIDE SHALL NOT BE PERMITTED.
5. ALL CONCRETE IS TO BE COMPACTED USING A HIGH FREQUENCY VIBRATOR.
6. CONCRETE IS TO BE CURED A MIN OF 7 DAYS
7. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
8. SPECIFIED COVER IS THE CLEAR DISTANCE BETWEEN ANY REINFORCING (INCLUDING FITMENTS) AND THE FACE OF THE STRUCTURAL ELEMENT.
9. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DESIGN DRAWINGS SHALL BE MADE IN ANY CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
10. CONSTRUCTION JOINTS SHALL ONLY BE PROVIDED IN LOCATIONS SPECIFICALLY SHOWN IN THE STRUCTURAL DESIGN DRAWINGS.
11. FREE DROPPING OF CONCRETE FROM A HEIGHT GREATER THAN 1000mm IS NOT PERMITTED.
12. CONCRETE SHALL BE SEPARATED FROM SUPPORTING MASONRY BY TWO LAYERS OF DAMP-PROOF COMPRESSIBLE JOINT FILLER. VERTICAL FACES OF CONCRETE SHALL BE KEPT FREE OF ADJOINING SURFACES BY 10mm THICKNESS OF COMPRESSIBLE JOINT FILLER UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL NON-LOADBEARING WALLS SHALL BE KEPT CLEAR OF THE UNDERSIDE OF SLABS AND BEAMS BY 20mm UNLESS NOTED OTHERWISE ON THE DRAWINGS.
13. BRICKWORK MUST NOT BE BUILT ON CONCRETE SLABS OR BEAMS UNTIL FORMWORK SUPPORTING SAME, HAS BEEN REMOVED.
14. THE FOLLOWING REQUIREMENTS SHALL BE INCORPORATED INTO THE FORMWORK DESIGN AND/OR ALLOWED FOR BY THE FORMWORK SUB-CONTRACTOR AS APPROPRIATE-
  - A) MINIMUM FORMWORK STRIPPING TIMES ARE TO BE AS FOLLOWS-
    - (i) VERTICAL SURFACES MAY BE STRIPPED OF FORMWORK WHEN THE MINIMUM MEAN COMPRESSIVE STRENGTH OF THE CONCRETE HAS REACHED 5.0 MPa OR A MINIMUM OF 2 DAYS AFTER CONCRETE POUR PROVIDED THE AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.
    - (ii) SOFFITS OF BEAMS AND SLABS MAY BE STRIPPED OF FORMWORK WHEN THE MINIMUM MEAN COMPRESSIVE STRENGTH OF THE CONCRETE HAS REACHED 22 MPa OR A MINIMUM OF 6 DAYS AFTER CONCRETE POUR PROVIDED THE AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.
    - (iii) REMOVAL OF FORMWORK SUPPORT (PROPS) TO BEAM AND SLAB SOFFITS MAY BE UNDERTAKEN WHEN THE MINIMUM MEAN COMPRESSIVE STRENGTH OF THE CONCRETE HAS REACHED 28 MPa OR A MINIMUM OF 18 DAYS AFTER CONCRETE POUR PROVIDED THE AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS BETWEEN 12 AND 20 DEGREES CELSIUS.
  - B) ALL CONCRETE COMPRESSIVE STRENGTH (32-402 MPa) SHALL BE DETERMINED FROM SAMPLE CYLINDER TESTING BY A NATA REGISTERED LABORATORY.

**ISSUED FOR CONSTRUCTION**



**BARNSON PTY LTD**  
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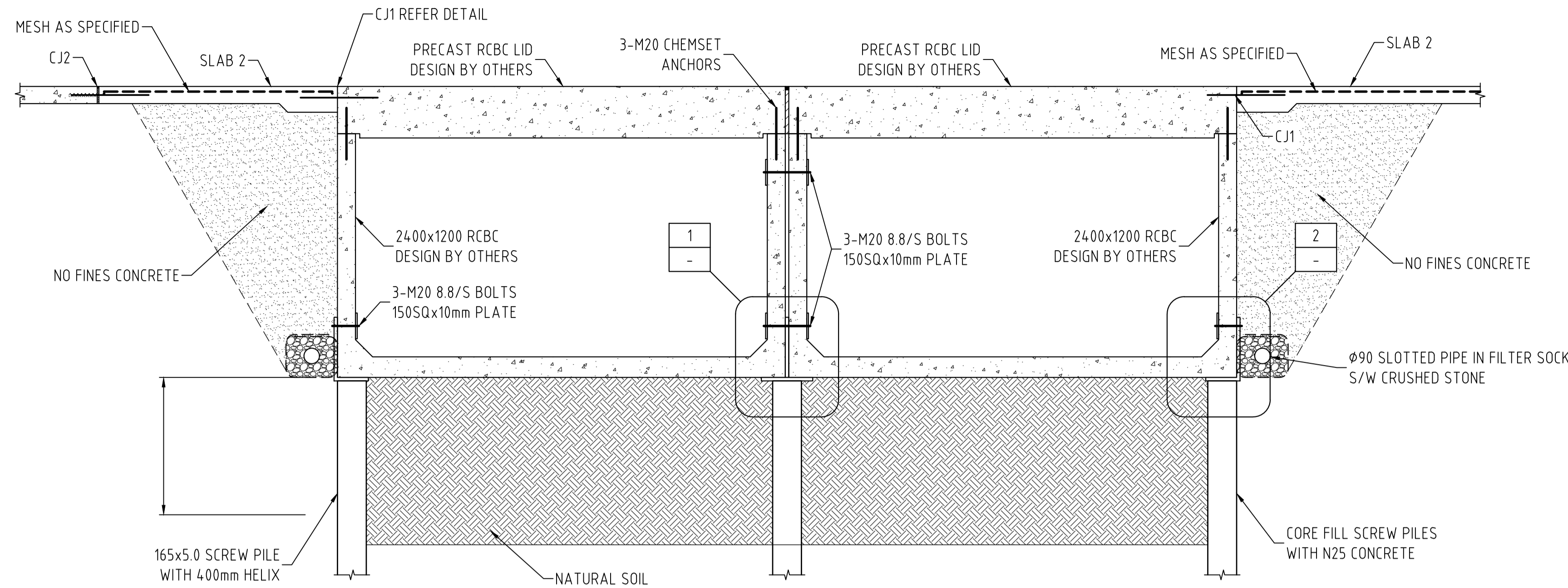
bathurst | coffs harbour | dubbo | mudgee | orange | sydney | tamworth

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH GENERAL BUILDING DRAWINGS, SPECIFICATIONS & OTHER CONSULTANTS DRAWINGS APPLICABLE TO THIS PROJECT. ALL DIMENSIONS IN MILLIMETRES. DO NOT SCALE. DIMENSIONS TO BE CHECKED ON SITE BEFORE COMMENCEMENT OF WORK. REPORT DISCREPANCIES TO BARNSON PTY LTD. NO PART OF THIS DRAWING MAY BE REPRODUCED IN ANY WAY WITHOUT THE WRITTEN PERMISSION OF BARNSON PTY LTD.

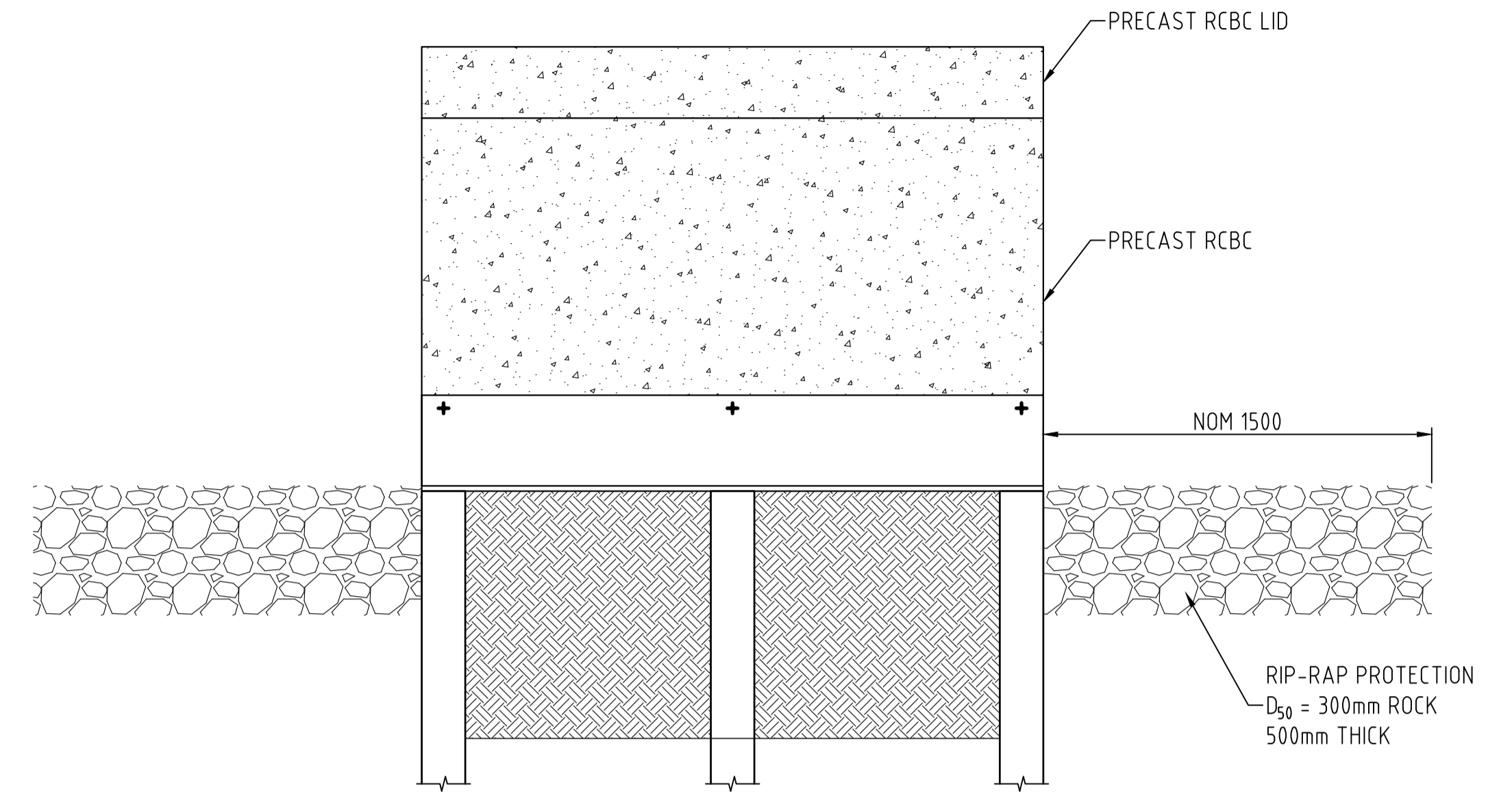
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 Project: CULVERT REPLACEMENT  
 BURTON STREET LITHGOW  
 Drawing Title: SLAB PLAN, NOTES AND ELEVATION

Rev	Date	Amendment
A	07-04-2022	ISSUED FOR CLIENT REVIEW
B	08-06-2022	FOOTPATH SLAB ADDED
0	27-06-2022	ISSUED FOR CONSTRUCTION
1	21-02-2024	UPDATES BASED ON CLIENT FEEDBACK
2	11-04-2024	UPDATES BASED ON CLIENT FEEDBACK
3	09-05-2024	UPDATED PER CLIENT COMMENTS
4	17-05-2024	REISSUED FOR CONSTRUCTION

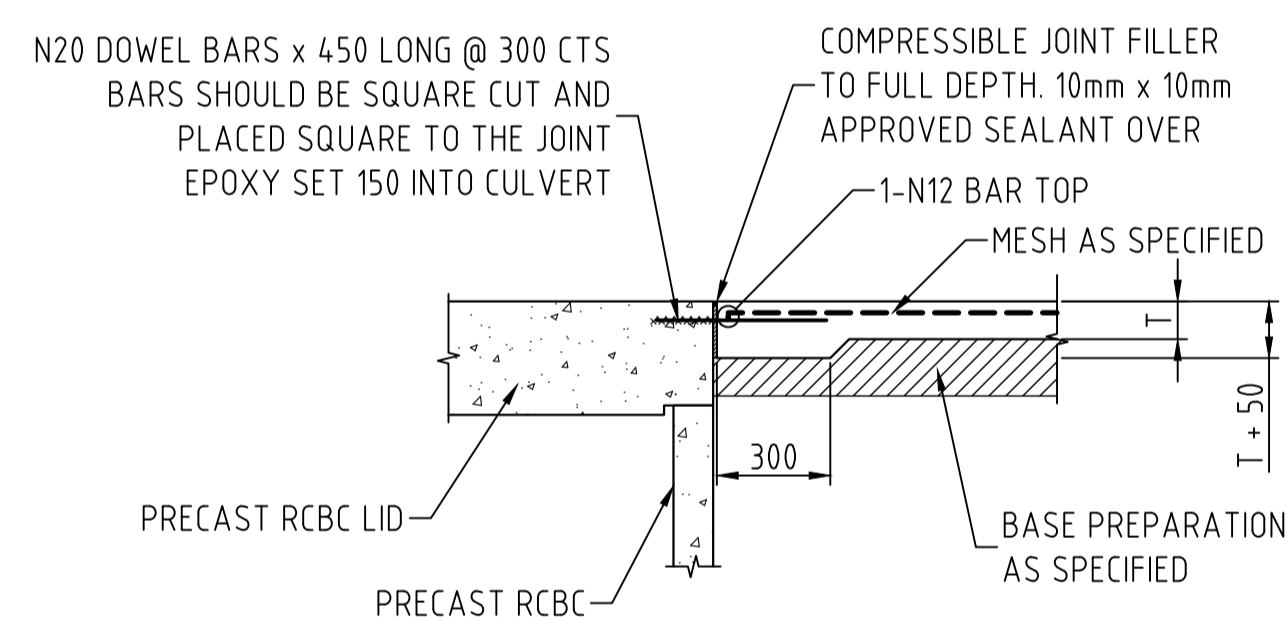
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 Revision 4



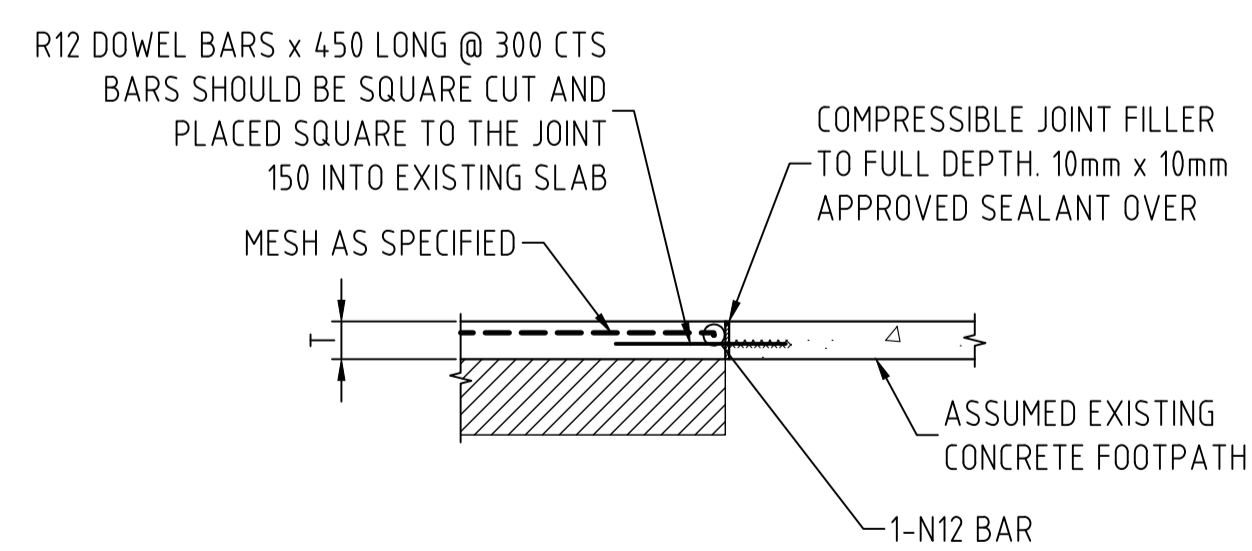
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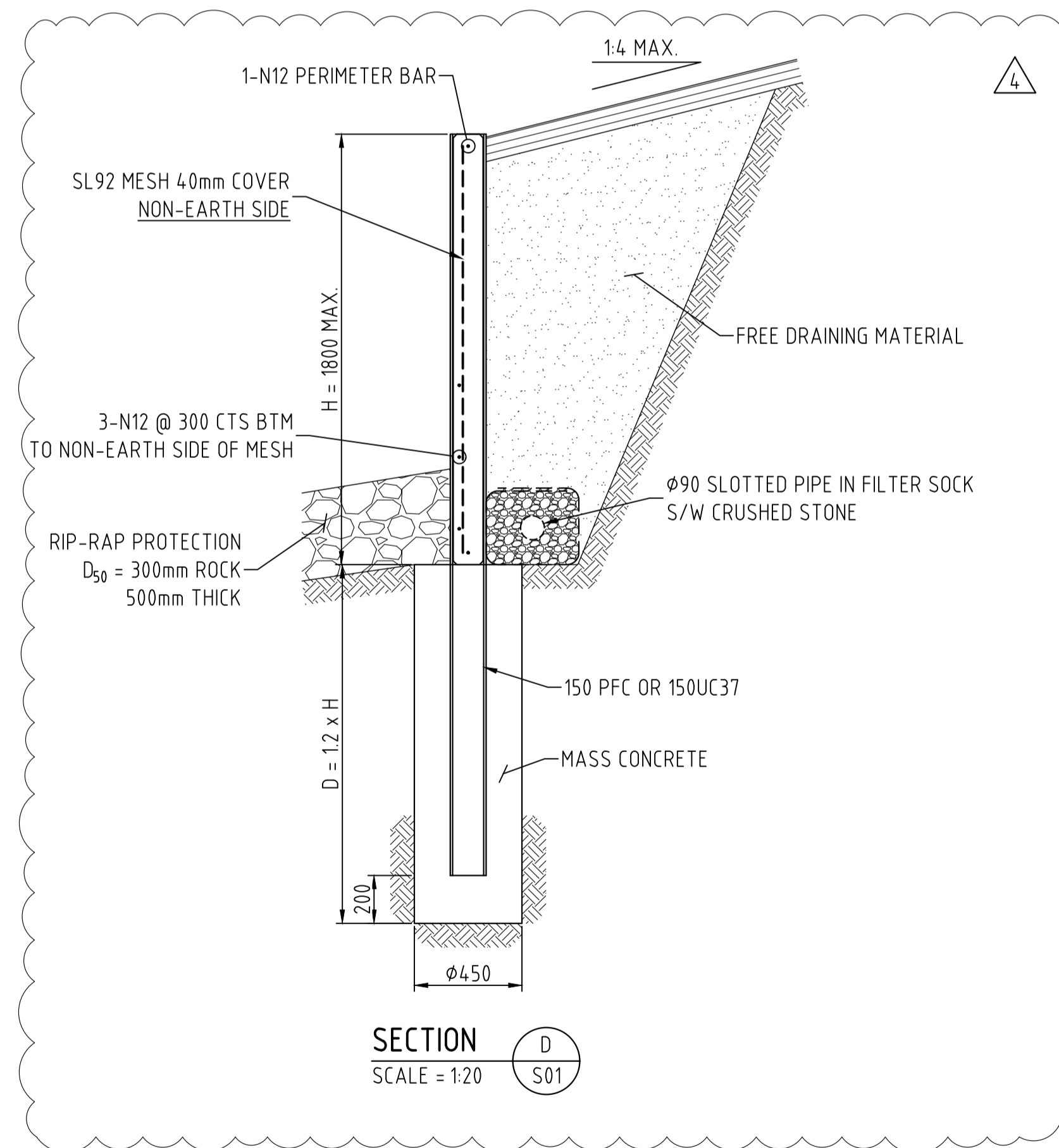
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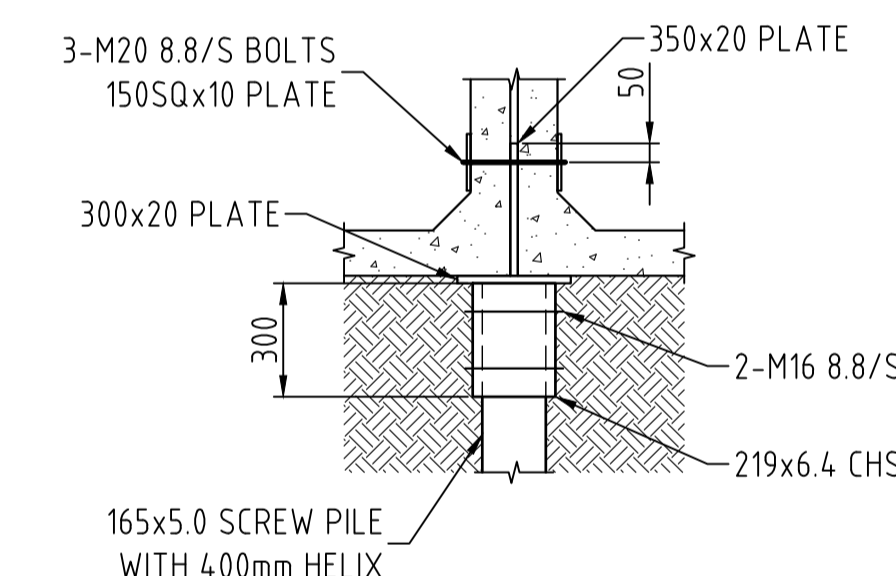
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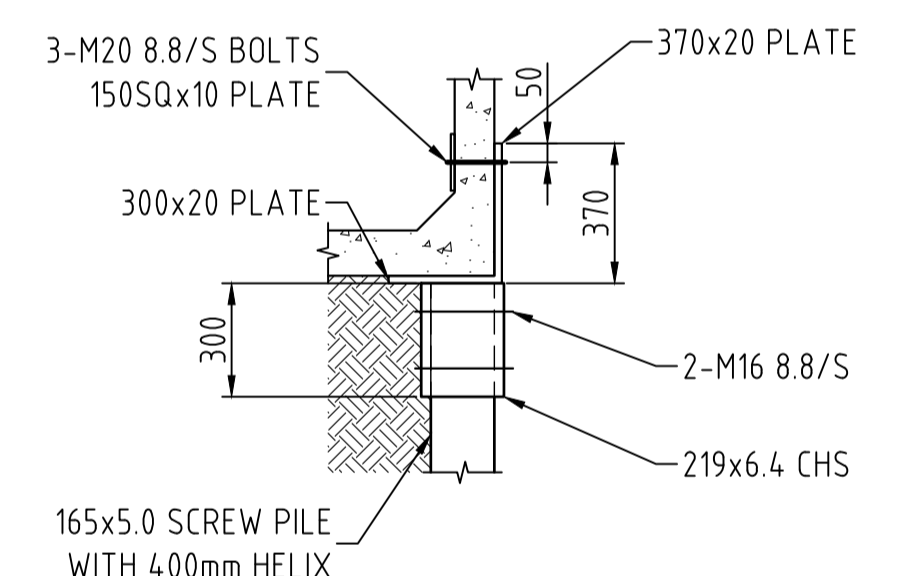
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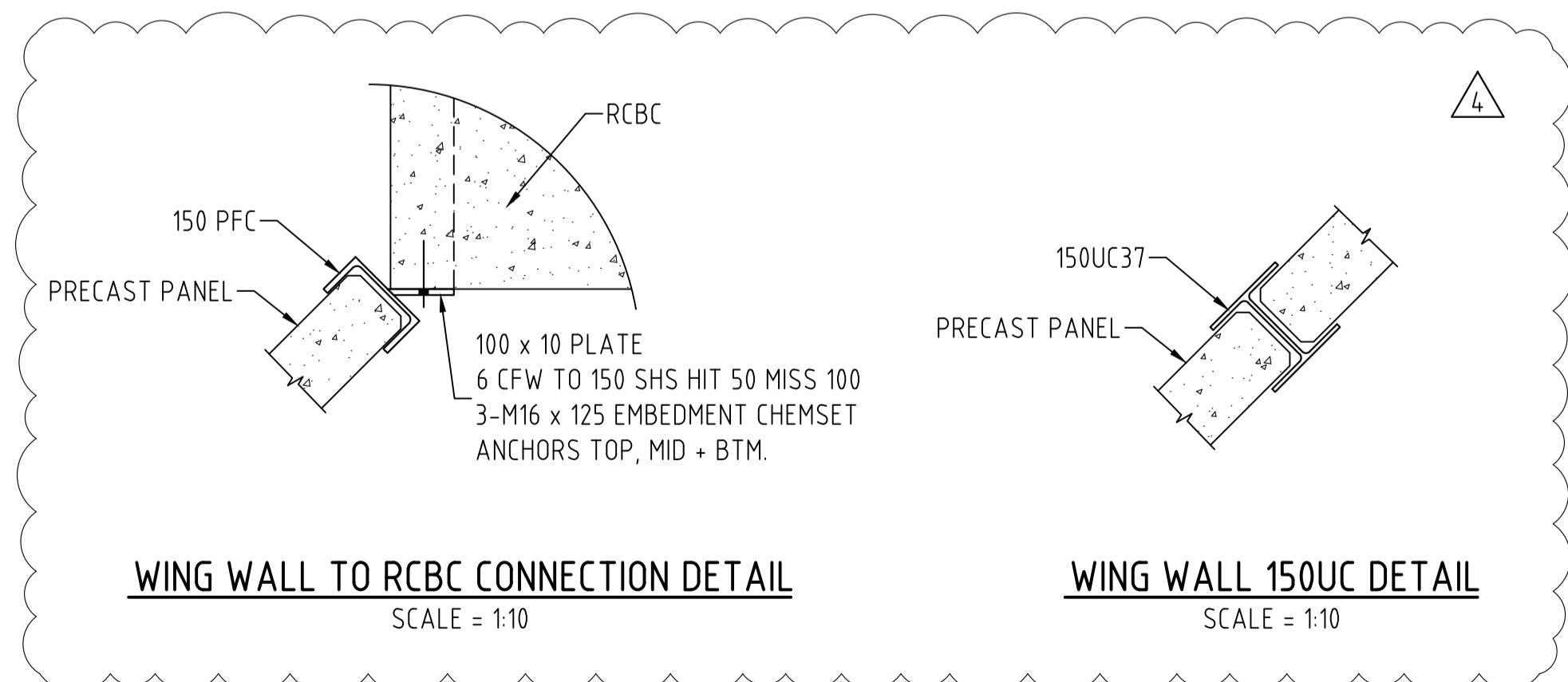
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S01



DETAIL 1  
SCALE = 1:20



DETAIL 2  
SCALE = 1:20



WING WALL TO RCBC CONNECTION DETAIL  
SCALE = 1:10

WING WALL 150UC DETAIL  
SCALE = 1:10

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