

GEOTECHNICAL NOTES

1. THESE FOOTINGS HAVE BEEN DESIGNED FOR A CLASS "M" OR "H1" SITE AND BELOW SOIL PARAMETERS.

2.FACTORED ULTIMATE BEARING CAPACITIES Qu: TO BE CONFIRMED ON SITE:

A) PIER BASE = 150 kPa

3.UNDRAINED SOIL COHESION - STIFF CLAY = 50 kPa 4. SITE SPECIFIC GEOTECHNICAL REPORT MUST BE UNDERTAKEN FOR THE SITE AND THE RETAINING WALL DESIGN CHECKED AND VERIFIED BY THE STRUCTURAL ENGINEER BEFORE COMMENCEMENT OF WORKS.

SUPER STRUCTURE LOADING NOTES

1. ALL LOADS ARE ACCORDING TO AS1170

2. DEAD LOADS: A) SELF WEIGHT OF STEELWORK STRUCTURE

3. LIVE LOADS:

A) 2.5 kPa CLASS A RETAINING WALL TO AS4678-2002 4. EARTH LOADS:

A) BACKFILL PROPERTIES i) Ka = 0.35 ii) $Y = 18kN/m^3$

BORED PIER NOTES

1. CONCRETE EXPOSURE CLASSIFICATION = A1 TO AS2870-2011 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.

STRUCTURAL STEELWORK NOTES

- 1. ALL STEELWORK TO BE GRADE 300 TO AS4100-2020 2. ATMOSPHERIC CORRISIVITY CATEGORY C2 TO AS4312-2008: ALL STEELWORK: HDG320 TO AS4680-2006.
- 3. ALL STRUCTURAL STEELWORK SHALL BE FABRICATED IN ACCORDANCE WITH AS/NZS 5131.
- 4. STRUCTURAL STEELWORK ERECTION SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

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, PROVIDED
- BETWEEN 12 AND 20 DEGREES CELSIUS. 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 AVERAGE AMBIENT TEMPERATURE OVER THAT PERIOD IS

- THE CONCRETE HAS REACHED 5 MPa OR A MINIMUM OF 2 DAYS AFTER CONCRETE POUR. (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. (ii) REMOVAL OF FORMWORK SUPPORT (PROPS) TO BEAM AND SLAB SOFFITS MAY BE UNDERTAKEN WHEN THE MINIMUM MEAN COMPRESSIVE STRENGTH OF THE
- 18 DAYS AFTER CONCRETE POUR. 15. ALL CONCRETE COMPRESSIVE STRENGTH (20–32 MPa) SHALL BE DETERMINED FROM SAMPLE CYLINDER TESTING BY A NATA REGISTERED LABORATORY.

CONCRETE HAS REACHED 28 MPa OR A MINIMUM OF

ISSUED FOR CONSTRUCTION

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Date Description A 26-05-2025 PRELIMINARY DRAWING 0 27-05-2025 ISSUED FOR CONSTRUCTION

RETAINING WALL DESIGN Site Address

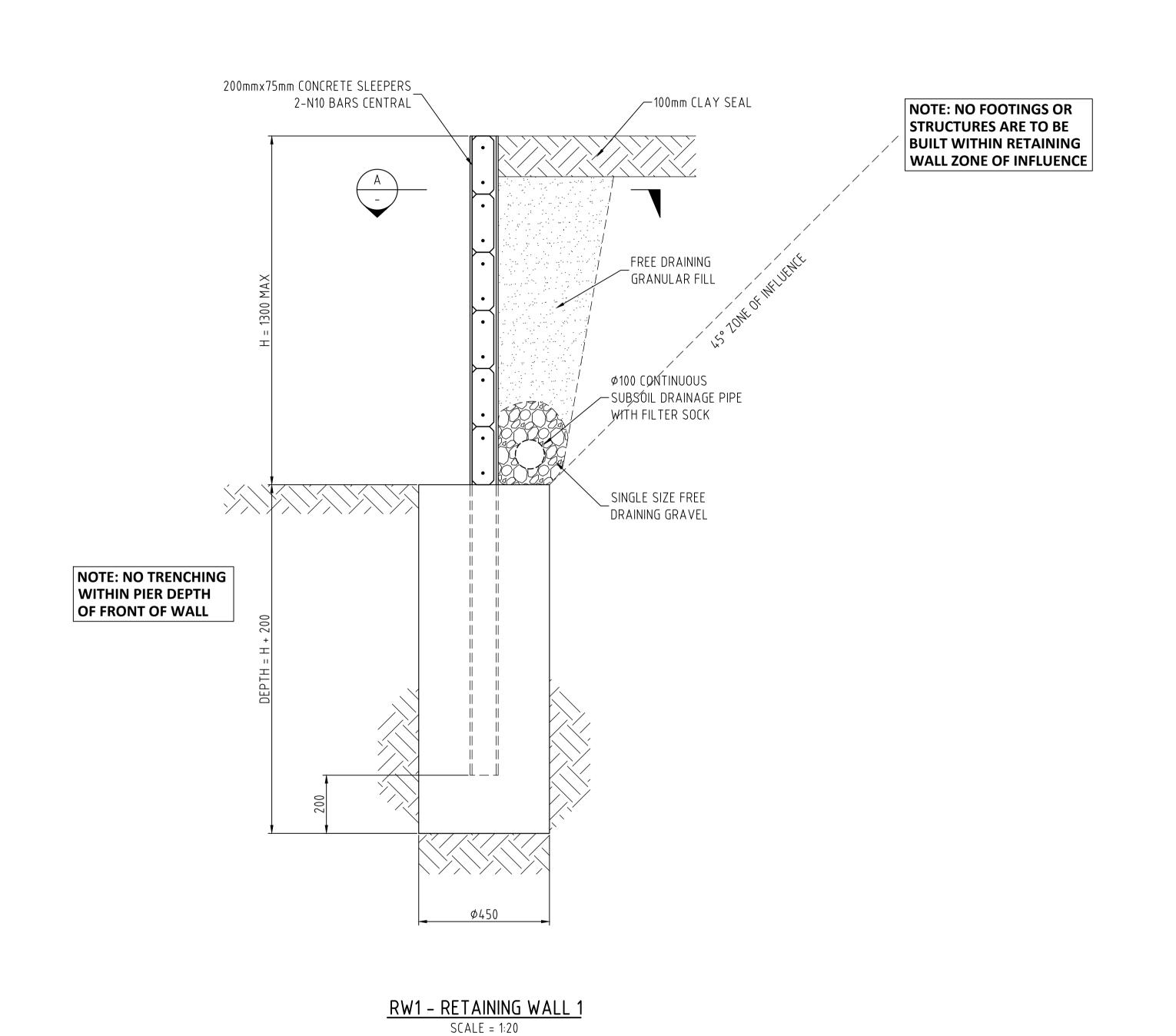
LOT 515 SUTTOR AVENUE MUDGEE NSW 2850 JAAC BUILD PTY LTD

RETAINING WALL PLAN & NOTES

Design Original Drawn Check Revision

Α1

48227

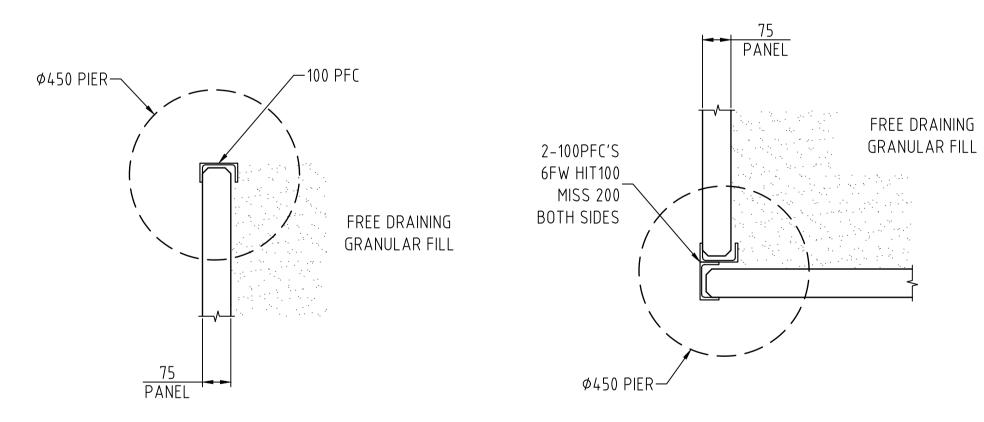


FREE DRAINING
GRANULAR MATERIAL

200mmx75mm CONCRETE SLEEPERS
2-N10 BARS CENTRAL

100UC14.8 HOT DIPPED GALVANISED
HDG320 TO AS4680

SECTION
SCALE = 110
-



CORNER DETAILS

SCALE = N.T.S

ISSUED FOR CONSTRUCTION



Rev Date Description

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RETAINING WALL DESIGN

Site Address
LOT 515 SUTTOR AVENUE
MUDGEE NSW 2850
Client
JAAC BUILD PTY LTD

Drawing Title
RETAINING WALL DETAILS

Design MK
Drawn MK

Check **JS**

Original

Revision

A1 O

48227 **SO2**