

EARTH ANCHORS DESIGN FOR RETAINING WALL

13 POWELL PLACE, PAKENHAM, VIC 3810

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REV	STATUS	DESIGNED	CHECKED	DATE	 Barrason's Group E: info@barrasons.com.au T: (03) 5940 4999 W: www.barrasons.com.au	TITLE: TITLE SHEET	PROJECT ADDRESS: 13 POWELL PLACE, PAKENHAM, VIC 3810	JOB No: 25030303	DESIGNED: J.J.	DWG No:	S000	FOR CONSTRUCTION
A	FOR CONSTRUCTION	J.J.	A.B.	07/07/2025				CLIENT: MEENO	CHECKED: A.B.			
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GENERAL:

- G1. ALL WORK AND MATERIALS TO CONFORM TO THE DRAWINGS, THE SPECIFICATION, AND CURRENT BUILDING CODE OF AUSTRALIA AND AUSTRALIAN STANDARDS.
- G2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS, THE SPECIFICATION AND ALL OTHER WRITTEN INSTRUCTIONS ISSUED DURING THE CONSTRUCTION.
- G3. THE BUILDER SHALL CONFIRM ALL RELEVANT DIMENSIONS BEFORE COMMENCING CONSTRUCTION AND/OR FABRICATION. DO NOT SCALE STRUCTURAL DRAWINGS.
- G4. ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT/ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORKS.
- G5. ALL DIMENSIONS ARE IN MILLIMETRES U.N.O. ALL LEVELS ARE EXPRESSED IN METRES.
- G6. SUBSTITUTIONS SHALL BE MADE WITH THE ENGINEER'S WRITTEN APPROVAL, BUT NOT AN AUTHORISATION FOR AN EXTRA. ANY CLAIM FOR AN EXTRA MUST BE APPROVED BY THE ENGINEER, ARCHITECT AND/OR OWNER BEFORE COMMENCEMENT OF THE WORK.
- G7. THE BUILDER SHALL MAINTAIN THE WORKS IN A SAFE, STABLE CONDITION AND ENSURE THAT NO PART IS OVER-STRESSED DURING CONSTRUCTION.
- G8. ALL PROPS AND FORMWORK TO A BEAM OR SLAB SHALL BE REMOVED BEFORE CONSTRUCTING MASONRY WORKS.
- G9. ALL NON-LOADBEARING WALLS SHALL BE CONSTRUCTED 20mm CLEAR OF SLAB AND BEAM SOFFITS U.N.O.
- G10.NO HOLES, RECESSES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE WITHOUT THE ENGINEERS WRITTEN APPROVAL
- G11.THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE THE WORKS CARRIED OUT ON SITE UNLESS INSPECTED AND APPROVED IN WRITING BY THE ENGINEER.
- G12.THE STRUCTURAL WORKS HAVE BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS:

AS PER AS1170	
LOCATION	LIVE LOAD (kPa)
ROOF	0.25
FLOOR/DECK	1.5/2.0

WIND CLASSIFICATION N2
WIND DESIGN LOAD PRESSURE 0.92 kPa

- G13.WHERE ADDITIONAL CONSTRUCTION LOADS EXCEED THE AN ALLOWABLE LIVE LOAD, THE BUILDER TO NOTIFIED THIS OFFICE BEFORE COMENCING WORKS.
- G14.BEFORE STARTING WORKS ON SITE, IT IS THE BUILDER'S RESPONSIBILITY TO ENSURE THE EXISTING UNDERGROUND SERVICES WILL NOT AFFECT THE WORKS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR ANY SITE DESCREPANCIES TO THE DRAWINGS. EXISTING LEVELS ARE TO BE VERIFIED ON SITE.
- G15.ALL PROPRIETARY PRODUCTS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- G16.ALL REQUIRED TESTS AND/OR SITE INSPECTION ARE TO THE CONTRACTORS EXPENSE.

FOOTINGS AND SLAB ON GROUND

- F1. ALL WORK AND MATERIALS TO COMPLY WITH AS2870.
- F2. ALL FOOTINGS SHALL BE FOUNDED ON ORIGINAL UNDISTURBED GROUND.
PRIOR TO COMMENCING WORK, THE BUILDER IS TO FAMILARISE THE CONTENT OF THE SOIL REPORT PREPARED BY: SOIL TEST EXPRESS
REPORT No.: 20252 DATED: 18/06/2025
FOOTING DEPTHS SPECIFIED ON THE DRAWINGS ARE MINIMUM DIMENSIONS ONLY. IF NOT SHOWN, REFER TO THE SOIL REPORT FOR THE REQUIRED FOUNDING DEPTH.
- F3. THE SITE HAS BEEN CLASSIFIED AS CLASS 'M' IN ACCORDANCE WITH AS 2870.
- F4. STRIP / PAD FOOTINGS ARE TO BE FOUNDED ON ORIGINAL UNDISTURBED GROUND WITH AN ALLOWABLE BEARING CAPACITY OF 120kPa.
- F5. EDGE BEAMS AND LOAD BEARING RIBS SHALL BE FOUNDED ON UNDISTURBED GROUND WITH AN ALLOWABLE BEARING CAPACITY OF 120kPa. THE INTERNAL SLAB & NON-LOAD BEARING RIBS SHALL BE FOUNDED WITH MINIMUM BEARING CAPACITY OF 120 kPa.

- F6. ALL ORGANIC MATERIAL SHALL BE REMOVED FROM THE AREA BENEATH THE SLABS ON GROUND. THE GROUND SHALL BE PROOF ROLLED WITH A 3 TONNE ROLLER PRIOR TO PLACING COMPACTED FILL.
ANY SOFT SPOTS SHALL BE DUG OUT AND REPLACED WITH COMPACTED CRUSHED ROCK OR 15MPa BLINDING CONCRETE. IN ACCORDANCE WITH AS2870 AND AS3798.
- F7. UNLESS OTHERWISE SPECIFIED IN THE SOIL REPORT, FILLING USED IN THE CONSTRUCTION OF THE SLAB EXCEPT WHERE THE SLAB IS SUSPENDED SHALL CONSIST OF CONTROLLED FILL OR ROLLED FILL AS FOLLOWS:
a. CONTROLLED FILL IS MATERIAL THAT HAS BEEN PLACED AND COMPACTED IN LAYERS BY COMPACTION EQUIPMENT WITHIN DEFINED DENSITY REQUIREMENT. EXCEPT AS PROVIDED BELOW, CONTROLLED FILL SHALL BE PLACED IN ACCORDANCE WITH AS 3798.
SAND FILL UP TO 0.8m DEEP, WELL COMPACTED IN NOT MORE THAN 0.3m THICK LAYERS BY A VIBRATING PLATE OR VIBRATING ROLLER, SHALL BE DEEMED TO COMPLY WITH THIS REQUIREMENT. A SATISFACTORY TEST FOR SAND FILL NOT CONTAINING GRAVEL SIZED MATERIAL IS THE ACHIEVEMENT OF A BLOW COUNT OF 7 OR MORE PER 0.3m USING THE PENETROMETER TEST DESCRIBED IN AS 1289.6.3.3.
NON-SAND FILL UP TO 0.4m DEEP, WELL COMPACTED IN NOT MORE THAN 0.15m LAYERS BY A MECHANICAL ROLLER SHALL BE DEEMED TO COMPLY WITH THIS REQUIREMENT. CLAY FILL SHALL BE MOIST DURING COMPACTION.
b. ROLLED FILL CONSISTS OF MATERIAL COMPACTED IN LAYERS BY REPEATED ROLLING WITH AN EXCAVATOR. ROLLED FILL SHALL NOT EXCEED 0.6m COMPACTED IN LAYERS NOT MORE THAN 0.3m THICK FOR SAND OR 0.3m COMPACTED IN LAYERS NOT MORE THAN 0.15m THICK FOR OTHER MATERIAL
c. THE EXTENT OF CONTROLLED FILL AND ROLLED FILL REQUIRED SHALL BE DETERMINED ON SITE IN ACCORDANCE WITH SECTION 6 OF AS2870 AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR & BUILDER.
- F8. WHERE DEPTH OF CONTROLLED FILL IS THICKER THAN THAT SPECIFIED ABOVE, FILL MATERIAL SHALL BE SPREAD AND COMPACTED IN UNIFORM LAYERS NOT EXCEEDING 0.15m THICK. TOP SURFACE LAYER SHALL BE COMPACTED TO MINIMUM 98% STANDARD DRY DENSITY DETERMINED BY METHODS IN ACCORDANCE WITH AS1289. LOWER LAYERS SHALL BE COMPACTED TO 95% STANDARD DRY DENSITY. THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE ADJUSTED TO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT DURING COMPACTION TO ENSURE THAT THE SPECIFIED COMPACTION IS OBTAINED. COMPACTION TESTS SHALL BE CARRIED OUT AT A RATE OF ONE TEST PER LAYER PER 100 SQUARE METRES OF FILL. TESTS ARE TO BE CARRIED OUT BY INDEPENDENT NATA REGISTERED LABORATORIES. SUBMIT REPORT TO THIS OFFICE FOR APPROVAL.
- F9. FOUNDATIONS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER OR BUILDING INSPECTOR BEFORE LAYING MEMBRANES AND POURING CONCRETE. IF AN UNUSUAL GROUND CONDITION IS ENCOUNTERED DURING THE SITE EXCAVATION, REPORT TO THIS OFFICE FOR RESOLUTION.
- F10. NO EXCAVATION IS TO BE TAKEN BELOW THE BASE OF ADJACENT / EXISTING FOOTINGS. IF IT IS UNAVOIDABLE, FOR THE CASE OF NEW FOOTINGS, BLINDING CONCRETE GRADE 15MPa SHALL BE PROVIDED BENEATH THE NEW FOOTING AND FOUNDING BELOW ANGLE OF REPOSE. FOR THE CASE OF EXISTING FOOTINGS, UNDERPINNING IS REQUIRED. REFER TO THIS OFFICE FOR DETAILS.
- F11. ALL FOUNDATIONS ARE TO BE FREE OF WATER AND LOOSE MATERIAL
- F12. OVER EXCAVATION IS TO BE FILLED TO THE UNDERSIDE OF FOOTINGS WITH 15MPa BLINDING CONCRETE
- F13. TERMITE PROTECTION SHALL BE PROVIDED AS REQUIRED BY AUSTRALIAN STANDARD AND THE LOCAL STATUTORY AUTHORITY.
- F14. A 0.2mm POLYTHENE MEMBRANE SHALL BE CONTINUOUS UNDER SLAB AND RIBS LAPPED 200mm MINIMUM WHERE REQUIRED AND TAPED AT ALL SERVICE PENETRATIONS, LAPS AND PUNCTURES. THE MEMBRANE IS TO EXTEND UNDER AND TO THE SIDES OF SLABS, BEAMS AND THICKENINGS.
- F15. EXCAVATIONS NEAR THE BUILDING EDGE SHALL BE BACKFILLED IN SUCH A MANNER TO PREVENT READY ACCESS OF WATER TO THE FOUNDATIONS

- F16. SYMBOLS ON THE DRAWING FOR REINFORCEMENT ARE AS FOLLOWS :
- Y GRADE 400MPa DEFORMED REINFORCING BARS TO AS 1302.
- N GRADE 500MPa DEFORMED REINFORCING BARS, DUCTILITY CLASS N TO AS 4671
- R GRADE 250MPa PLAIN REINFORCING BARS TO AS 1302
- TM HARD-DRAWN STEEL TRENCH MESH, GRADE 500 DUCTILITY CLASS L TO AS 4671
- RL RECTANGULAR RIB MESH GRADE 500 DUCTILITY CLASS L TO AS 4671
- SL SQUARE RIB MESH GRADE 500 DUCTILITY CLASS L TO AS 4671
- F17. FABRIC SHALL BE PLACED NEAR THE TOP OF THE SLAB AND SHALL HAVE A NOMINAL COVER OF 25mm U.N.O.
- F18. REINFORCEMENT FABRIC SHALL BE LAPPED SO THAT EACH PAIR OF TRANSVERSE WIRES AT THE EDGE OF ONE SHEET OVERLAPS EACH CORRESPONDING PAIR OF TRANSVERSE WIRES OF THE SHEET BEING LAPPED. REINFORCEMENT SHALL BE SUPPORTED IN POSITION PRIOR TO CONCRETING COMMENCING ON DENSE PRECAST CONCRETE SPACER BLOCKS OR BAR CHAIRS ON GALVANIZED STEEL DISHES (EITHER OF WHICH MUST NOT DAMAGE THE MEMBRANE) AT 900mm MAXIMUM CENTRES EACH WAY TRAMPING IN FABRIC IS NOT PERMITTED
- F19 BEAM AND STRIP FOOTING REINFORCEMENT SHALL HAVE A NOMINAL COVER OF 50mm.
- F20. TRENCH MESH SHALL BE LAID CONTINUOUSLY AND SHALL BE SPLICED WHERE NECESSARY WITH A MINIMUM LAP OF 500mm
- F21. TRENCH MESH SHALL BE OVERLAPPED BY THE WIDTH OF FABRIC AT CORNERS AND INTERSECTIONS. THE ENDS OF TRENCH MESH SHALL TERMINATE WITH A CROSSBAR.
- F22. PROVIDE 2N12 x 1200 BARS OR EQUIVALENT TRENCH MESH x 2000 LONG DIAGONALLY ACROSS RE-ENTRANT CORNERS OF SLAB AND TIED TO UNDERSIDE OF TOP FABRIC.
- F23. CONCRETE STRENGTH IS TO BE $f_c = 25\text{MPa}$, WITH 65 MAX. SLUMP, COMPACTED USING MECHANICAL VIBRATION. SLAB & RIBS ARE TO BE CAST IN ONE CONTINUOUS POUR AND THE SLAB IS TO BE STEEL-FLOAT FINISHED
- F24. ALL CONCRETE IS TO BE CONTINUOUSLY WET-CURED FOR 7 DAYS.
- F25. THE GROUND SURROUNDING SLABS SHALL HAVE THE SURFACE AT LEAST 150mm LOWER THAN THE SLAB AND BE SLOPED AWAY FROM THE SLAB EDGE SO THAT WATER WILL DISCHARGE TO SUITABLE DRAINAGE POINTS AND NOT FLOOD THE SLAB SURFACE.
- F26. HOT WATER HEATING PIPES MAY BE EMBEDDED IN THE SLAB PROVIDED THAT THE SLAB THICKNESS IS INCREASED BY 25mm AND LAID ON ADDITIONAL SL52 MESH.

CONCRETE:

- C1 ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600.
- C2 UNLESS OTHERWISE SHOWN THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE AS FOLLOWS:
- | ELEMENT | CONC. STRENGTH (f_c) MPa | SLUMP mm |
|-------------------------|------------------------------|----------|
| FOOTINGS | 32 | 75 |
| SLAB-ON-GROUND | 32 | 65 |
| COLUMNS | 40 | 80 |
| WALLS | 40 | 85 |
| SUSPENDED SLABS & BEAMS | 32 | 80 |
| MASS CONCRETE | 15 | - |
- C3 CONCRETE SHALL BE CURED BY AN APPROVED METHOD FOR AT LEAST 7 DAYS AFTER PLACEMENT.
- C4 CONCRETE SHALL BE COMPACTED USING MECHANICAL VIBRATION.
- C5 VIBRATION OF FORMS IS NOT ACCEPTABLE AND CONCRETE SHALL NOT BE SPREAD BY VIBRATING.
- C6 CONCRETE SECTIONS SHOWN ARE MINIMUM SIZES AND DO NOT INCLUDE FINISHES. SIZES SHALL NOT BE REDUCED IN ANY WAY OR HOLES FORMED OR MADE IN

- C7 DEPTH OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS
- C8 SLABS AND BEAMS ARE TO BE POURED CONCURRENTLY U.N.O. AND FINISHED WITH A STEEL FLOAT.
- C9 MINIMUM COVER TO ALL REINFORCEMENT INCLUDING FITMENTS SHALL BE AS FOLLOWS, U.N.O:

ELEMENT	FORMED AND NOT EXPOSED TO WEATHER	FORMED ON GROUND & EXPOSED TO WEATHER	NOT FORMED. CAST AGAINST GROUND
INSITU COLUMN & PEDESTALS	40	50	75
INSITU BEAMS	40	50	65
FOOTINGS	-	50	75
PIERS	-	50	75
SLABS ON GROUND	30	30	65
SUSPENDED SLABS	30	30	65
INSITU WALLS	30	30	65
PRECAST WALLS	30	30	65
UNDERPINNING	-	50	75

- C10 REINFORCEMENT IS SHOWN DIAGRAMMATICALLY AND NOT IN TRUE PROJECTION.
- C11 SYMBOLS ON THE DRAWING FOR REINFORCEMENT ARE AS FOLLOWS:
Y GRADE 400MPa DEFORMED REINFORCING BARS TO AS1302
N GRADE 500MPa DEFORMED REINFORCING BARS, DUCTILITY CLASS N TO AS 4671
R GRADE 250MPa PLAIN REINFORCING BARS TO AS1302
W HARD-DRAWN STEEL REINFORCING WIRE, GRADE 500 DUCTILITY CLASS L TO AS 4671
TM HARD-DRAWN STEEL TRENCH MESH, GRADE 500 DUCTILITY CLASS L TO AS 4671
RL RECTANGULAR RIB MESH GRADE 500 DUCTILITY CLASS L TO AS 4671
SL SQUARE RIB MESH GRADE 500 DUCTILITY CLASS L TO AS 4671
- C12 ALL REINFORCEMENT AND INSERTS SHALL BE SUPPORTED AND HELD IN THE DESIGN LOCATION BY APPROVED BAR CHAIRS, SPACERS OR TIES. BAR CHAIRS SHALL BE PLACED AT MINIMUM 1000 CENTRES IN TWO DIRECTIONS U.N.O.
- C13 WELDING AND THREADING OF REINFORCEMENT IS NOT PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.
- C14 REINFORCEMENT SHALL BE EVENLY DISTRIBUTED OVER THE WIDTHS SHOWN U.N.O.
- C15 PROVIDE 2-N12 x 1200 BARS DIAGONALLY ACROSS RE-ENTRANT CORNERS OF SLABS, TIED UNDER THE TOP FABRIC. U.N.O.
- C16 AT SLAB EDGES INCLUDING CONSTRUCTION AND OTHER JOINTS, AT LEAST ONE REINFORCING BAR OR FABRIC WIRE SHALL BE LOCATED PARALLEL TO AND WITHIN 75mm OF THE SLAB EDGE.
- C17 CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE APPROVED OR PERMITTED BY THE ENGINEER.
- C18 SAWN JOINTS SHALL BE MADE AT A TIME APPROPRIATE TO THE CONCRETE MIX AND CLIMATIC CONDITIONS, GENERALLY BETWEEN 10 AND 20 HOURS OF PLACING THE CONCRETE.
- C19 LAP LENGTHS AND COG LENGTHS ARE AS FOLLOWS:

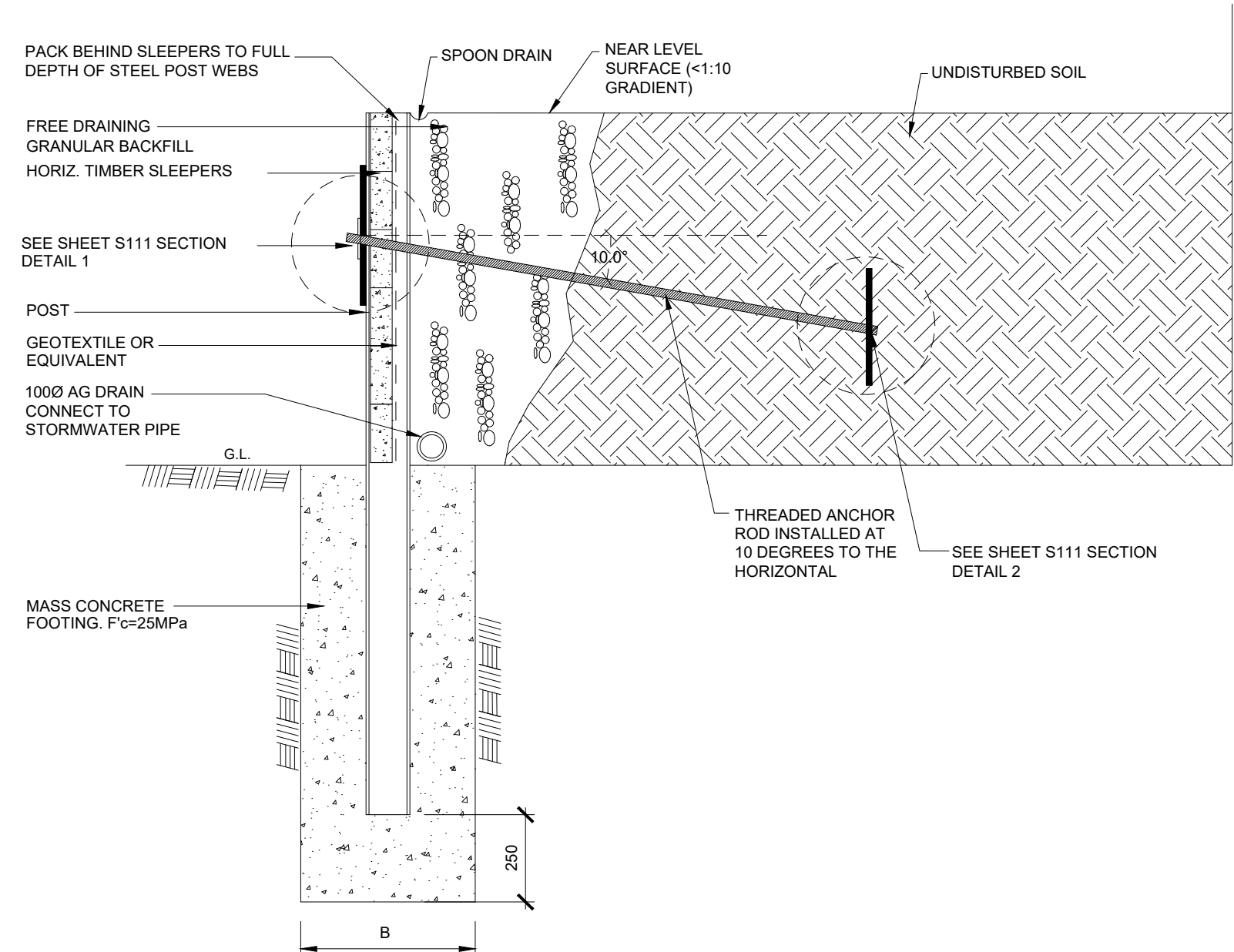
BAR SIZE	LAP LENGTH	LAP LENGTH	COG LENGTH
	ELEMENTS < 300 DEPTH / HEIGHT	ELEMENTS > 300 DEPTH / HEIGHT	
N10	400	500	170
N12	450	600	190
N16	700	900	220
N20	950	1200	260
N24	1200	1600	320
N28	1500	1950	370
N32	1800	2300	420
N36	2100	2700	470

REV	STATUS	DESIGNED	CHECKED	DATE	BG Barrason's Group E: info@barrasons.com.au T: (03) 5940 4999 W: www.barrasons.com.au	TITLE: GENERAL NOTES-1	PROJECT ADDRESS: 13 POWELL PLACE, PAKENHAM, VIC 3810	JOB No: 25030303	DESIGNED: J.J.	DWG No:	S001	FOR CONSTRUCTION
A	FOR CONSTRUCTION	J.J.	A.B.	07/07/2025					CHECKED: A.B.			
									APPROVED: A.B.			
									REVISION:		A	

EARTH ANCHOR SYSTEM INSTALLATION:

1. MARK THE AREA OF THE WALL WHERE A SMALL HOLE 28mm IN DIAMETER WILL BE CORED. THE EARTH ANCHOR SYSTEM SHOULD BE SPACED AT A MAXIMUM DISTANCE OF 1m FROM THE CORNERS AND AT 2m CENTRES BETWEEN EACH PLATE.
2. ON THE RETAINED SIDE, EXCAVATE AT A DISTANCE OF 4m FROM THE EXTERNAL WALL FACE AND DIG HOLES 300mm IN DIAMETER AND 1.27m DEEP AT THE LOCATIONS WHERE THE EARTH ANCHORS ARE TO BE EMBEDDED.
3. STEEL ANCHOR RODS WILL BE DRIVEN THROUGH THE WALL AND SOIL AT A MINIMUM ANGLE OF 10 DEGREES RELATIVE TO THE HORIZONTAL, EXTENDING TO THE EXCAVATED HOLE ON THE RETAINED SIDE.
4. EMBED THE EARTH ANCHOR PLATE AT THE EXCAVATED HOLE LOCATIONS AND PLACE ONTO THE THREADED ROD END. TIGHTEN THE ROD ONTO THE PLATE BY INSTALLING AN ANCHOR NUT. (SHEET S111 SECTION 2)
5. BEFORE ATTACHING THE PLATE TO THE EXPOSED RETAINING WALL FACE, INSTALL A WALL SLEEVE OVER THE ROD AND PLACE WAX TO SEAL OFF THE WALL. (SHEET S111 SECTION 1)
6. MOUNT THE WALL PLATE ON THE ANCHOR ROD END AT THE EXPOSED RETAINING WALL SIDE. SCREW WITH LARGE NUT AND WASHER TO THE THREADED END OF THE ROD TO SECURE AND TIGHTEN TO THE WALL. CUT THE EXCESS ROD LENGTH AND PLACE A ROD CAP AT THE ENDS.
7. PLACE BACKFILL SOIL OVER EXCAVATED HOLES TO INITIAL GROUND LEVEL.

NOTE:
PRIOR TO THE COMMENCEMENT OF WORKS, CONFIRM
EASEMENT LOCATIONS AND ALL NEARBY PROPERTY ASSETS
AT THE SUBJECT PROPERTY.



STABILISATION OF LEANING RETAINING WALL WITH
EARTH ANCHORS

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A	FOR CONSTRUCTION	J.J.	A.B.	07/07/2025



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PROJECT ADDRESS:
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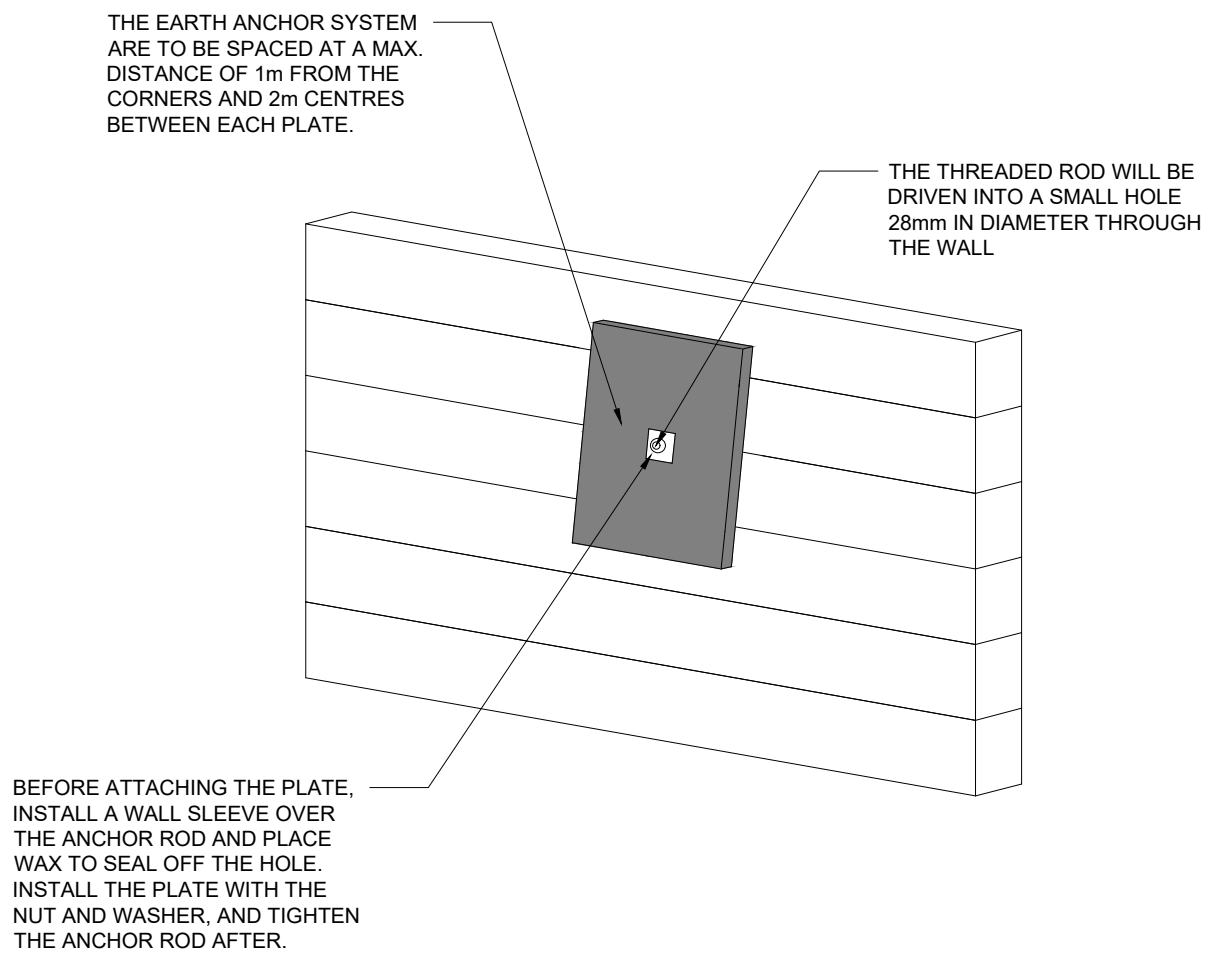
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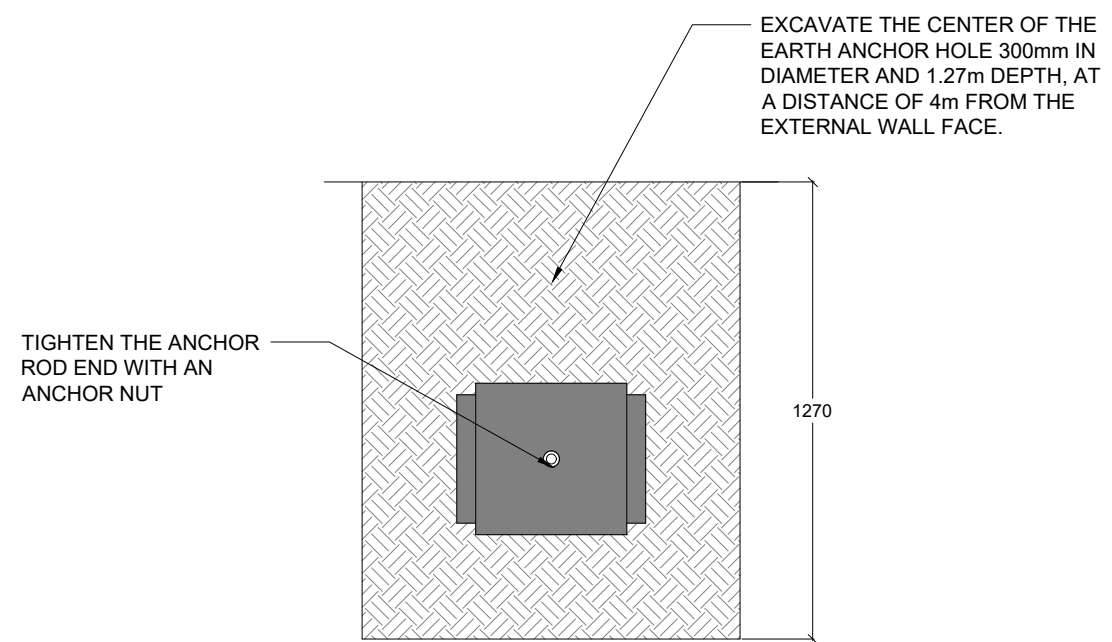
DWG No:
REVISION:

S101
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FOR
CONSTRUCTION



DETAIL 1 - EARTH ANCHOR PLATE TO
THE RETAINING WALL



DETAIL 2 - SECTION OF EMBEDDED
EARTH ANCHOR

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