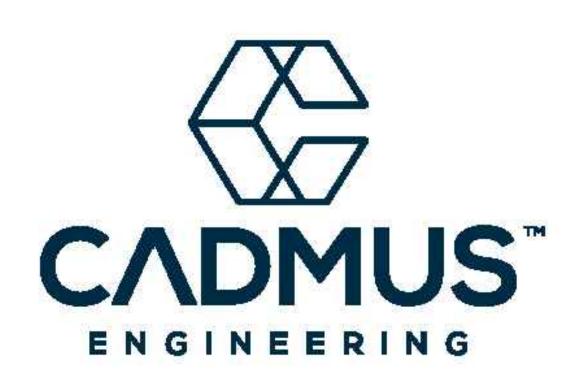
STRUCTURAL DRAWINGS FOR PROPOSED GRANNY FLAT AT No. 15 GONDOLA ROAD NORTH NARRABEEN NSW 2101

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O	STRUCTURAL DRAWING LIST								
	DRAWING No.	ISSUE	DRAWING TITLE	DRAWING No.	ISSUE	DRAWING TITLE	DRAWING No.	ISSUE	DRAWING TITLE
	S1	А	STRUCTURAL NOTES	S5	А	TYPICAL RAINWATER TANK SLAB DETAIL			
	S2	Α	FOOTING & SUB-FLOOR PIERS & SLAB LAYOUT PLAN	S6	А	TYPICAL FOOTING DETAILS - SHEET 1			
	S3	Α	FOOTINGS AND SLAB DETAILS AND SECTIONS - SHT1	S7	А	TYPICAL FOOTING DETAILS - SHEET 2			
	S4	A	FOOTINGS AND SLAB DETAILS AND SECTIONS - SHT2						

GENERAL

G1. ALL THE STRUCTURAL NOTES ARE INTENDED AS A GUIDE. THERE IS ALWAYS A POSSIBILITY OF SITE CONDITIONS REQUIRING VARIATIONS TO THESE PROCEDURES. IN SUCH CASES, THE ENGINEER MUST BE CONSULTED.

G2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT AND CADMUS ENGINEERING AND BE RESOLVED BEFORE WORK PROCEEDS.

G3. ALL WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH THE REQUIREMENTS OF WORK COVER AND THE OH&S ACT.

G4. ALL DIMENSIONS SHOWN AND/OR RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE BUILDER BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED. ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

G5. DURING CONSTRUCTION THE BUILDER SHALL MAINTAIN SAFE AND STABLE THE STRUCTURE AND NEIGHBOURING STRUCTURES. NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.

G6. UNLESS NOTED OTHERWISE, ALL LEVELS ARE EXPRESSED IN METERS AND ALL DIMENSIONS ARE IN MILLIMETERS.

G7. THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE ENGINEER. SUCH SUBSTITUTION SHALL NOT BE AN AUTHORIZATION FOR A VARIATION TO THE CONTRACT. ANY VARIATIONS INVOLVED MUST BE TAKEN UP WITH THE ARCHITECT BEFORE THE WORK COMMENCES.

G8. ALL PROPS AND FORMWORK FOR BEAMS AND SLABS SHALL BE REMOVED BEFORE CONSTRUCTION OF ANY MASONRY WALLS OR PARTITIONS ON THE FLOOR.

G9. ALL NON-LOAD BEARING WALLS SHALL BE KEPT CLEAR OF THE UNDERSIDE OF SLABS AND BEAMS BY 20mm UNLESS OTHERWISE SHOWN.

G10. ABBREVIATIONS USED:

ALTERNATIVE BTM **BOTTOM** CTS **CENTRES** C/S BRICK / BLOCK COURSE DIA DIAMETER **FGL** FINISHED GROUND LINE HOT DIP GALVANISED GAI V MAX MAXIMUM MIN MINIMUM NSOF NOT SHOWN ON PLAN UNLESS NOTED OTHERWISE U.N.O

UNDERSIDE

INSPECTIONS

U/S

II. THE PURPOSE OF THE STRUCTURAL INSPECTIONS IS TO VERIFY THAT THE BUILDER HAS COMPLIED WITH THE STRUCTURAL REQUIREMENTS OF THE CONTRACT DOCUMENTATION, NOT TO BE THE FIRST CHECK OF A SUBCONTRACTOR'S INTERPRETATION OF THESE REQUIREMENTS. SHOULD THE WORK CLEARLY BE UNSATISFACTORY AT THE TIME THE INSPECTION IS ARRANGED, THE VISIT AND SUBSEQUENT 'ABORTIVE' INSPECTION VISITS (INCLUDING ASSOCIATED TRAVEL AND OFFICE TIME) WILL BE CHARGED TO THE BUILDER.

SITE PREPARATION & EXCAVATOR NOTES

D1. STRIP TOPSOIL AND VEGETATION 200MM MINIMUM DEPTH AND STOCKPILE.

D2. THE SITE IS TO BE BENCHED BY CUT AND FILL TO DESIRED LEVELS. ALL EXCAVATION AND BACKFILL SHALL BE CARRIED OUT NEATLY TO THE LINES, LEVELS AND GRADES SPECIFIED BY THE ARCHITECT

D3. FILL IS TO BE PLACED IN 150MM MAXIMUM LAYERS AND THOROUGHLY COMPACTED USING EXCAVATOR. UNLESS THIS FILL IS COMPACTED IN ACCORDANCE WITH CLAUSE 6.4.2 OF AS2870, IT IS NOT ADEQUATE TO PROVIDE LONG TERM STRUCTURAL SUPPORT TO THE SLAB/FOOTING SYSTEM AND THEREFORE, PIERS MUST BE INSTALLED. ALTERNATIVELY, THE FILL CAN BE PLACED, TESTED AND CERTIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER AS "CONTROLLED FILL" AS DEFINED IN AS3798. THIS IS THEN DEEMED TO BE ADEQUATE TO SUPPORT THE SLAB/FOOTING SYSTEM.

D4. THE FILL IS TO EXTEND PAST THE EDGE OF THE HOUSE BY AT LEAST ONE METRE AND SHALL BE BATTERED OFF AT NOT STEEPER THAN TWO HORIZONTALLY TO ONE VERTICALLY OR RETAINED BY A SUITABLE STRUCTURE PROVIDED BY THE OWNER OR BUILDER AS SOON AS POSSIBLE. FALL AWAY FROM EDGE TO NCC/BCA CLAUSE 3.1.2.3.

D5. THE FINISHED LEVELS SHALL ALLOW FOR THE MAIN SLAB LEVEL TO BE AT LEAST 300MM ABOVE THE ADJACENT GROUND. SURFACE DRAINAGE SHALL BE PROVIDED AS REQUIRED TO AVOID THE POSSIBILITY OF WATER PONDING NEAR THE SLAB. A FALL OF 50MM OVER A DISTANCE OF ONE METRE AWAY FROM THE SLAB IS CONSIDERED ADEQUATE. SUBSOIL DRAINS (AGRICULTURAL DRAINS) ARE CONSIDERED DESIRABLE BUT SHOULD NOT BE LOCATED DIRECTLY ADJACENT TO THE FOOTINGS.

D6. IT IS THE RESPONSIBILITY OF THE OWNER TO ENSURE THE SITE IS PROPERLY MAINTAINED. APPENDIX B OF AS2870 PROVIDES INFORMATION AND GUIDANCE ON THE MAINTENANCE OF FOUNDATION SITE CONDITIONS. SUBJECT TO ADOPTION OF THESE RECOMMENDATIONS THE BUILDING MAY EXPERIENCE MINOR DAMAGE BUT OF A SEVERITY NOT EXCEEDING THE LEVELS DEFINED IN APPENDIX C OF AS2870.

D7. TRENCH EXCAVATIONS FOR SERVICES OR AGRICULTURAL DRAINS PARALLEL TO THE EDGE OF THE SLAB SHALL BE IN WITH NOTE 'P5' OF THE BORED PIER NOTES.

D8. FOR ALL FILLED AREAS IN BUILDING PLATFORM, INTERNAL BEAMS ARE TO BE PIERED AT MAX. 2400 CTS. AT RIB INTERSECTIONS. UNLESS NOTED OTHERWISE.

FOOTING AND SLAB NOTES

F1. BORED PIERS / FOOTINGS / BEAMS ...ETC ARE TO BE FOUNDED ONTO NATURAL STIFF CLAY U.N.O. WITH MINIMUM ALLOWABLE END BEARING PRESSURE 250kPa BEFORE ANY CONCRETE IS PLACED, THE SOIL TYPE SHALL BE VERIFIED BY AN EXPERIENCED CONSULTANT.

F2. THE FOOTING SYSTEM SPECIFIED ON THESE DRAWINGS WILL MEET THE PERFORMANCE REQUIREMENTS SET OUT IN CLAUSE 1.3 OF AS2870 (RESIDENTIAL SLABS AND FOOTINGS CODE). THE FOOTING SYSTEM INTENDED TO ACHIEVE ACCEPTABLE PROBABILITIES OF SERVICEABILITY AND SAFETY OF THE BUILDING DURING ITS DESIGN LIFE.

F3. THE FOOTING DETAILS SHOWN ARE FOR THE SITE CLASSIFICATION STIPULATED ABOVE. WHILST EVERY CARE HAS BEEN TAKEN TO VERIFY THAT THE INFORMATION SHOWN IS CORRECT, CADMUS ENGINEERING PTY LTD TAKE NO RESPONSIBILITY FOR VARIATIONS WHICH MAY OCCUR DUE TO VARIATIONS IN SITE CONDITIONS.

F4. DAMP PROOFING MEMBRANES ARE TO FORM CONTINUOUS BARRIER UNDER AND AROUND WHOLE SLAB, SLAB EDGES AND PIPE PENETRATION. THE DAMP PROOFING MEMBRANE MUST BE 0.2MM NOMINAL THICKNESS POLYTHENE FILM AND OF HIGH IMPACT RESISTANCE. DURING CONSTRUCTION, IN ACCORDANCE WITH AS2870 AND THE BCA (NCC), PUNCTURES AND BREAKS MUST BE REPAIRED BY THOROUGH TAPING BEFORE POURING CONCRETE, LAPS SHALL BE 200mm AT JOINTS MINIMUM. ANY PENETRATIONS THROUGH PLUMBING SERVICES MUST BE LAPPED, WRAPPED AROUND PIPES AND TAPED TO PIPE.

F5. SLAB DETAILING AROUND PIPE PENETRATIONS THROUGH THE FOOTINGS/SLAB BEAMS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS AND TO AS2870 AND AS3500.

F6. SUBTERRANEAN TERMITE PROTECTION IS TO BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF AS3660.1.

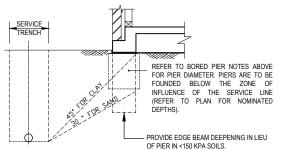
BORED PIER NOTE

P1. IT SHOULD BE NOTED THAT IF ANY OF THE FOOTING BEAMS ENCOUNTER ROCK OR SHALE, THEN ALL FOOTING BEAMS AND LOAD BEARING SPINE BEAMS SHALL BE PIERED TO ROCK OR SHALE.

P2. PIERING TO STRATA OTHER THAN ROCK OR SHALE MAY BE DELETED FROM THE CUT AREA OF THE BUILDING PLATFORM IF AUTHORIZED BY THE ENGINEER.

P3. ALL PIERS ARE TO BE CLEAN AND DE-WATERED PRIOR TO PLACEMENT OF CONCRETE. ENSURE CONSISTENT BEARING MATERIAL THROUGHOUT.

P4. WHERE A SERVICE TRENCH OR AGRICULTURAL DRAIN IS PARALLEL TO THE EDGE OF A SLAB, WHETHER THE SLAB BE IN EXCAVATED OR FILLED AREA, THEN PIERING TO SUPPORT THE SLAB BESIDE THE SERVICE TRENCH IS ONLY REQUIRED IF THE SERVICE LINE IS BELOW A LINE OF INFLUENCE DRAWN AS INDICATED BELOW IN Z.O.I DIAGRAM:



FOR CONSTRUCTION NEXT TO OR OVER EXISTING/PROPOSED SERVICES EASEMENT - FINAL EXTENT AND ZONE OF INFLUENCE TO BE DETERMINED BY ENGINEER PRIOR TO CONSTRUCTION OF FLOOR SLAB. DETAILS TO BE SUPPLIED FOLLOWING RECEIPT OF SEWER PEG OUT DETAILS.

Z.O.I. DIAGRAM

P5. THESE NOTES ARE INTENDED AS A GUIDE. THERE IS ALWAYS A POSSIBILITY OF SITE CONDITIONS REQUIRING VARIATIONS TO THESE PROCEDURES. IN SUCH CASES, THE ENGINEER MUST BE CONSULTED.

PLASTIC SHRINKAGE CRACKING CONTROL AND SLAB MAINTENANCE

M1. CONCRETE PLACING, VIBRATING AND CURING MUST BE CARRIED OUT IN ACCORDANCE WITH AS3600 AND AS2870 WHERE APPLICABLE.

M2. WATER IS NOT TO BE ADDED TO THE CONCRETE ON SITE AS TO INCREASE THE SLUMP ABOVE THAT SPECIFIED.

M3. IT IS RECOMMENDED THAT AN APPROVED CURING COMPOUND BE APPLIED TO THE SLAB IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

M4. CAUTION SHOULD BE EXERCISED WHEN APPLYING BRITTLE FINISHES, SUCH AS CERAMIC TILES TO THE FLOOR SLAB. AN ISOLATING MORTAR BED OR AN APPROVED FLEXIBLE ADHESIVE SYSTEM IS RECOMMENDED.

M5. THE OWNER'S ATTENTION SHALL BE DRAWN TO APPENDIX 'A'

- "PERFORMANCE REQUIREMENTS AND FOUNDATION
MAINTENANCE" OF AS2870 AND CSIRO PUBLICATION
"FOUNDATION MAINTANANCE AND FOOTING PERFORMANCE: A
HOMEOWNER'S GUIDE".

CONCRETE NOTES

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

C2. UNLESS NOTED OTHERWISE:

- MAXIMUM AGGREGATE SIZE SHALL BE 20MM
- SLUMP DURING PLACING SHALL BE 100MM
- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING

C3. CEMENT TYPE TO BE GP/GB AND 250KG MIN. CEMENT CONTENT PER m³.

C4. ALL CONCRETE CONSTRUCTION TO BE COMPACTED WITH A MECHANICAL VIBRATOR.

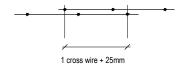
C5. REFER TO SLAB OR FOOTING PLAN SHEET FOR CONCRETE STRENGTHS.

SYMBOL TYPE					
R	STRUCTURAL GRADE ROUND BARS TO AS4671 (250MPA)				
S STRUCTURAL GRADE DEFORMED BARS TO AS4671 (250MPA)					
N	N TEMPCORE DEFORMED BARS TO AS4671 (500MPA)				
RL / SL FABRIC TO AS4671 (500MPA)					
TM TRENCH MESH TO AS4671 (500MPA)					
NOTE: THE NUMBER FOLLOWING THE SYMBOL IS THE BAR DIAMETER IN MILLIMETERS.					

REINFORCEMENT FIXING NOTES

R1. ALL REINFORCING BAR AND FABRIC SHALL BE DESIGNATED AS SHOWN IN THE FOLLOWING TABLE AND SHALL COMPLY WITH THE APPROPRIATE CODES AS NOTED BELOW:

R2. IF SLAB FABRIC IS USED IT IS TO BE LAPPED ONE FULL SQUARE PLUS 25MM AT SPLICES AS SHOWN IN THE DIAGRAM BELOW AND PLACED ON CHAIRS AT ONE METRE CENTRES BOTH WAYS TO GIVE 20MM CLEAR TOP COVER IN SHELTERED LOCATIONS AND 40MM CLEAR TOP COVER TO VERANDAHS.



R3. BAR REINFORCEMENT COVERS ARE TO BE AS FOLLOWS:

· · · · · · · · · · · · · · · · · · ·	AFFLE AND RAFT SLABS NON AGGRESIVE SOILS				
UNPROTECTED GROUND AND EXTERNAL EXPOSURE	40mm				
TO A MEMBRANE	30mm				
INTERNAL SURFACE	20mm				
AGGRESIVITY TO AS 2870 EXPOSURE CLASSIFICATION	SALINE SOIL SULPHATE				
A1	AS ABOVE 40mm				
A2	45mm	50mm			
B1	50mm 60mm				
B2	55mm	65mm			

* REDUCE COVER BY 10mm WHERE CAST AGAINTS A DAMP PROOF MEMBRANE

CONCRETE SURFACE CAST IN FORMS COMPLYING WITH AS3610	PROJECT CONCRETE EXPOSURE CLASSIFICATION TO AS 2870
EXTERNAL EXPOSED TO ATMOSPHERE	B1
INTERNAL SURFACES	A1

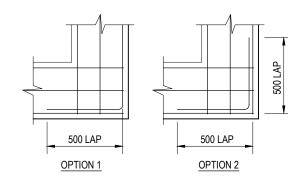
PROJECT EXPOSURE CLASSIFICATIONS.

R4. BAR REINFORCEMENT IS TO BE TIED BENEATH THE FABRIC IF USED OR OTHERWISE PLACED ON CHAIRS AND LAPPED AS FOLLOWS:

BAR SIZE	N12	N16	N20	N24	N28	N32
SPLICE LENGTH	500	700	900	1200	1350	1650

R5. WHERE FABRIC IS CUT TO PERMIT PIPE PENETRATION OF PIPES A 600×600 PIECE OF FABRIC IS TO BE SPLICED OVER THE PENETRATION.

R6. REINFORCING BARS SHALL HAVE A LAP LENGTH AT SPLICES NOT LESS THAN 500MM. AT 'T' AND 'L' INTERSECTIONS, THE BARS SHALL BE CONTINUED ACROSS THE FULL WIDTH OF THE INTERSECTION. AT L-INTERSECTIONS, ONE OUTER BAR SHALL BE BENT AND CONTINUED 500MM (OPTION 1), OR A BENT BAR 500MM LONG ON EACH LEG SHALL BE PROVIDED (OPTION 2). REFER TO THE DIAGRAM BELOW:



А	ISSUED FOR CDC	C.K.	11.09.2018
ISSUE No.	PROJECT STATUS / AMENDMENT DESCRIPTION	BY	DATE



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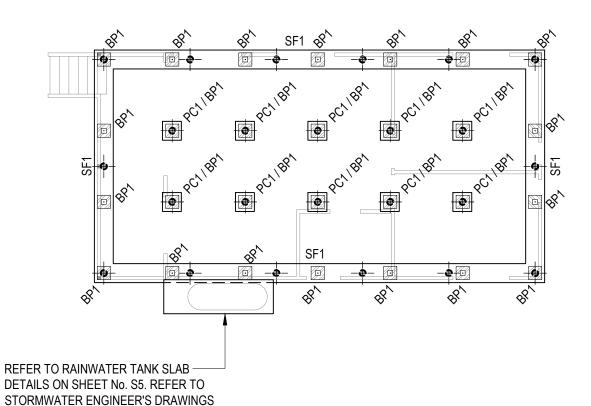
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PROJECT	PROPOSED GRANNY FLAT	DESIGNED BY	C.K.	SCALE @ A3	N.T.S
FOR	MARCELLINO	DRAWN BY	T.C.	PROJECT No.	180208
ADDRESS	No. 15 DONDOLA ROAD, NORTH NARRABEEN NSW 2101	CHECKED BY	C.K.	SHEET No.	S1
APPROVED	CHARBIL KHOUDAIR B.E., Dip.Eng.Prac., MIEAust, RPEng(Struc)., RPEQ	SIGNED	Omli	ISSUE No.	А

SITE CLASSIFICATION NOTE

THE SITE HAS BEEN CLASSIFIED AS "A" BY GEOTECHNICAL CONSULTANTS AUSTRALIA REPORT NUMBER G1888-1 DATED 17th JULY 2018. THESE DOCUMENTS HAVE BEEN PREPARED USING THE ABOVE RECOMMENDATION ON THE BASIS OF A CLASSIFICATION "P" IN ACCORDANCE WITH THE PROVISION OF AS2870-2011: RESIDENTIAL SLABS AND FOOTINGS CODE.



FOOTINGS & SUB-FLOOR PIERS LAYOUT PLAN

FOOTINGS NOTES:

FOR FINISHED RWT SLAB LEVEL.

PROJECT STATUS / AMENDMENT DESCRIPTION

- 1. ALL FOOTINGS ARE TO HAVE CONCRETE STRENGTH 25 MPa AND 100mm MAX. SLUMP.
- 2. ALL FOOTINGS ARE TO BE CONSTRUCTED AS DETAILED ON SUBSEQUENT SHEETS.
- DENOTES: SCREW PILE BY OTHERS S.W.L. = 60 kN MINIMUM

BY



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ISSUE No.



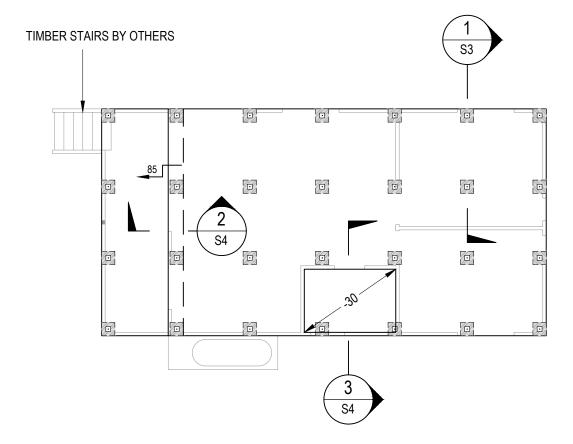
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ARCHITECT / BUILDER GrannyFlat solutions 26 / 7 Sefton Road, THORNLEIGH NSW 2120 Ph: (02) 9481 7443 www.grannyflatsolutions.com.au

PROJECT	PROPOSED GRANNY FLAT	DESIGNED BY	C.K.	SCALE @ A3	1:100
FOR	MARCELLINO	DRAWN BY	T.C.	PROJECT No.	180208
ADDRESS	No. 15 DONDOLA ROAD, NORTH NARRABEEN NSW 2101	CHECKED BY	C.K.	SHEET No.	S2
APPROVED	CHARBIL KHOUDAIR B.E., Dip.Eng.Prac., MIEAust, RPEng(Struc)., RPEQ	SIGNED	Omli	ISSUE No.	Α

NOTES

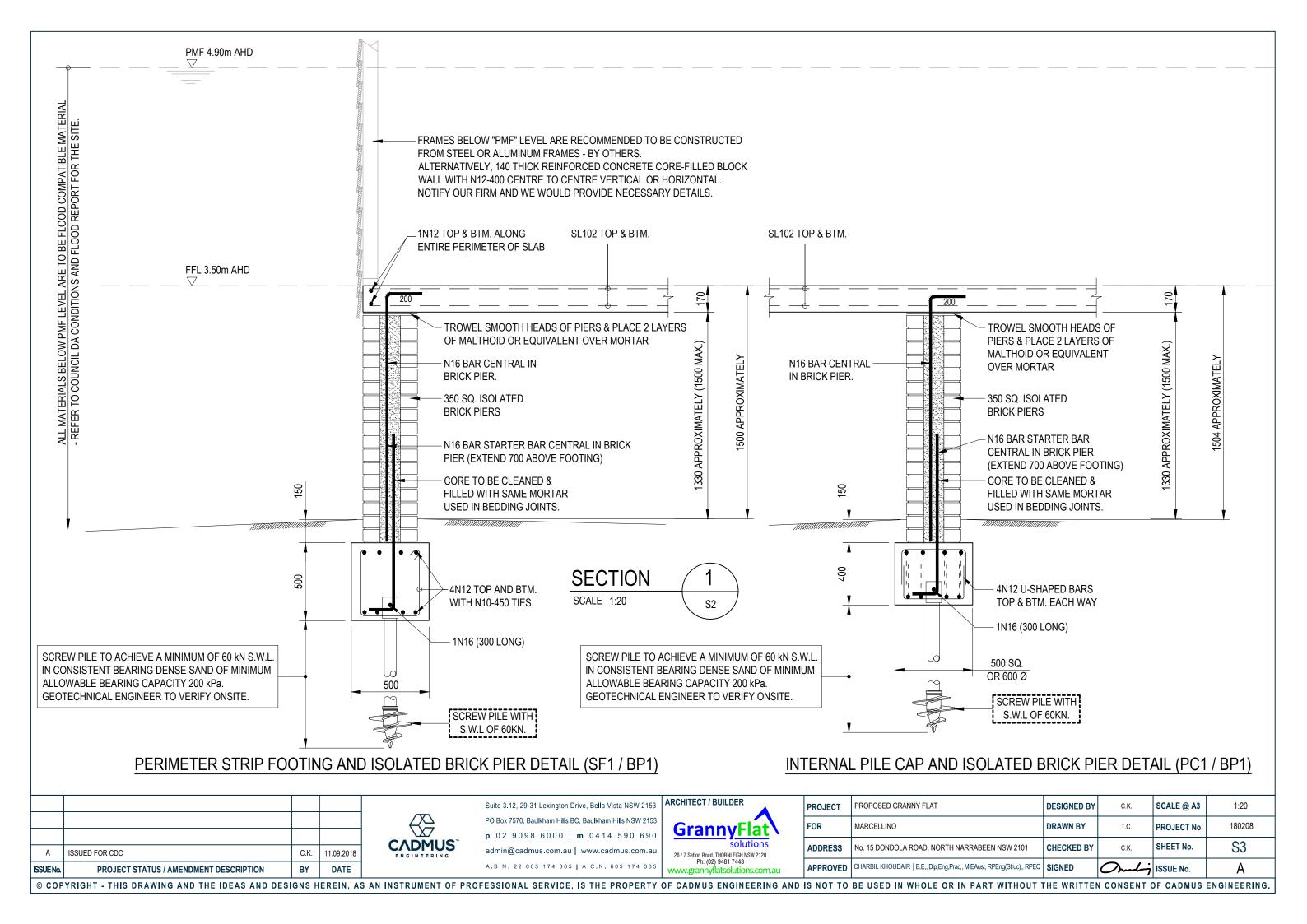
- 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE STRUCTURAL NOTES SHEET AND THE SUBSEQUENT DETAILS SHEETS.
- UNLESS NOTED OTHERWISE, SERVICES IN EASEMENT(S) (SUCH AS SEWER) ADJACENT TO THIS PROPERTY HAVE NOT BEEN ASSESSED. EVALUATION OF THE EFFECTS OF ANY SERVICES WILL BE MADE FOLLOWING RECEIPT OF FURTHER INFORMATION. THIS INFORMATION WILL BE DOCUMENTED AS AN AMENDMENT TO THESE DRAWINGS IF REQUIRED.
- 3. IT IS THE RESPONSIBILITY OF THE BUILDER / SUB-CONTRACTOR TO ENSURE CORRECT FOOTINGS AND PIER SETOUT.

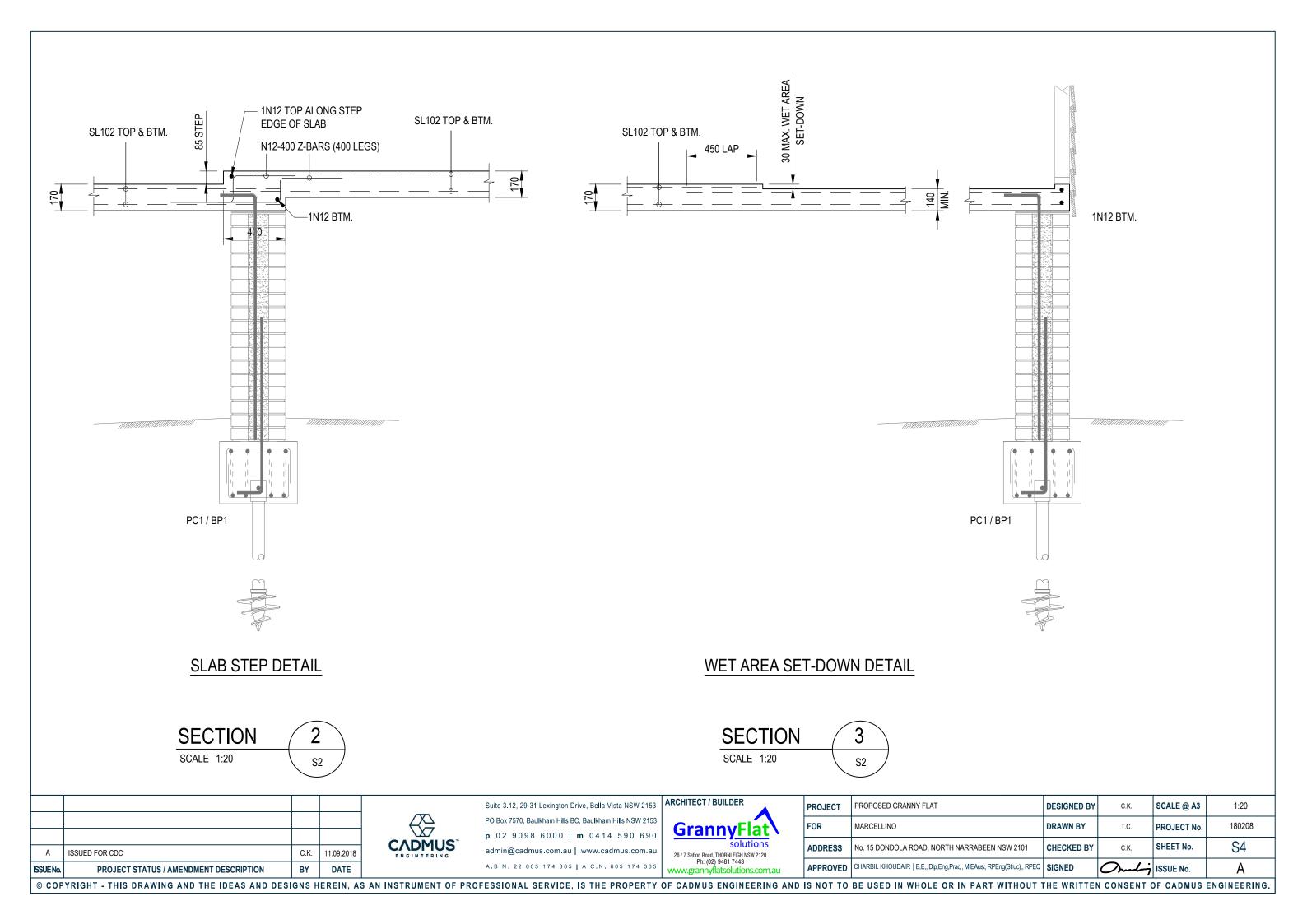


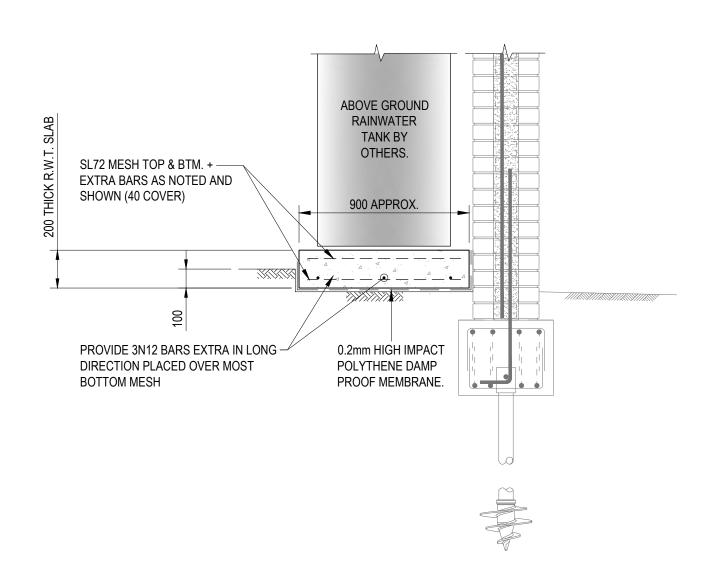
SUSPENDED (FORMED) SLAB LAYOUT PLAN

SUSPENDED SLAB NOTES:

- 1. GROUND FLOOR IS DESIGNED AS CONVENTIONAL SUSPENDED REINFORCED CONCRETE SLAB WITH MINIMUM STRENGTH OF 32 MPa AT 28 DAYS.
- 2. SLAB TO BE A MINIMUM 170 mm THICK UNLESS NOTED OTHERWISE.
- 3. SLAB IS TO BE REINFORCED WITH <u>SL102 MESH TOP AND BOTTOM</u>, PLUS EXTRA AS SHOWN ON DETAILS AND SECTIONS.
- 4. FORMWORK SUPPORTING SLAB DURING CONSTRUCTED AND UNTIL SLAB HAS REACHED ITS FULL STRENGTH IS BY OTHERS.
- 5. FORMWORK TO REMAIN IN PLACE FOR A MINIMUM OF 21 DAYS BEFORE STRIPPING.







ABOVE GROUND RAINWATER TANK SLAB DETAIL

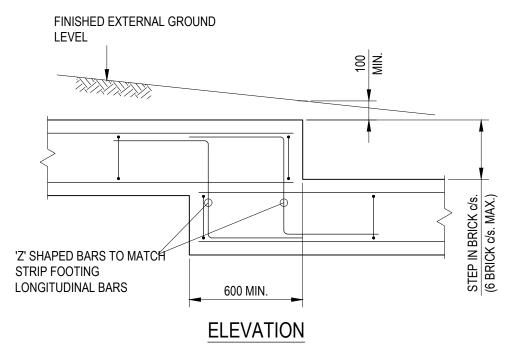
ISSUE No.	PROJECT STATUS / AMENDMENT DESCRIPTION	BY	DATE
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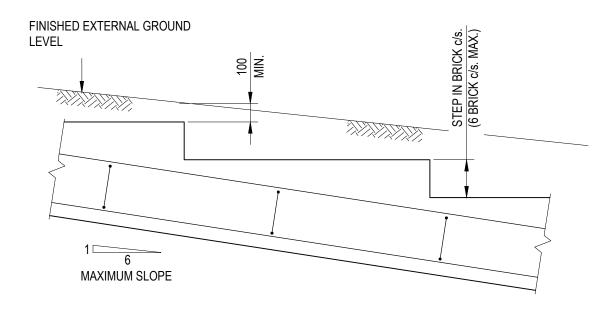
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	Ph: (02) 9481 7443

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ADDRESS	No. 15 DONDOLA ROAD, NORTH NARRABEEN NSW 2101	CHECKED BY	C.K.	SHEET No.	S5
APPROVED	CHARBIL KHOUDAIR B.E., Dip.Eng.Prac., MIEAust, RPEng(Struc)., RPEQ	SIGNED	Omli	ISSUE No.	Α

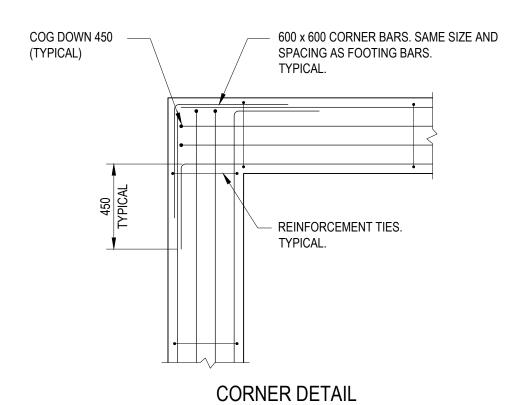


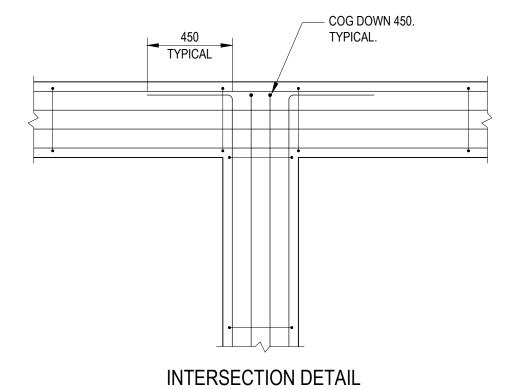
TYPICAL STEPPED STRIP FOOTING BEAM DETAIL



ELEVATION

TYPICAL SLOPED STRIP FOOTING BEAM DETAIL





STRIP FOOTING JUNCTION DETAILS

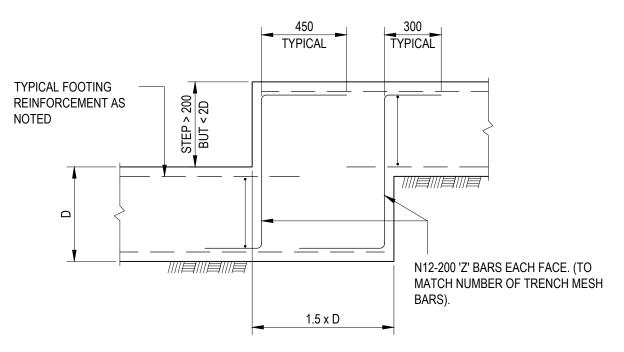
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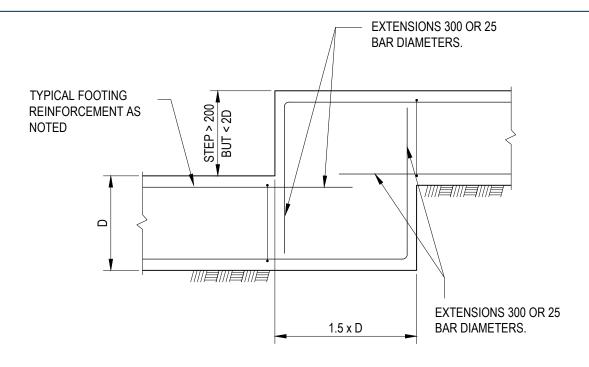


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ADDRESS	No. 15 DONDOLA ROAD, NORTH NARRABEEN NSW 2101	CHECKED BY	C.K.	SHEET No.	S6
APPROVED	CHARBIL KHOUDAIR B.E., Dip.Eng.Prac., MIEAust, RPEng(Struc)., RPEQ	SIGNED	Omli	ISSUE No.	А

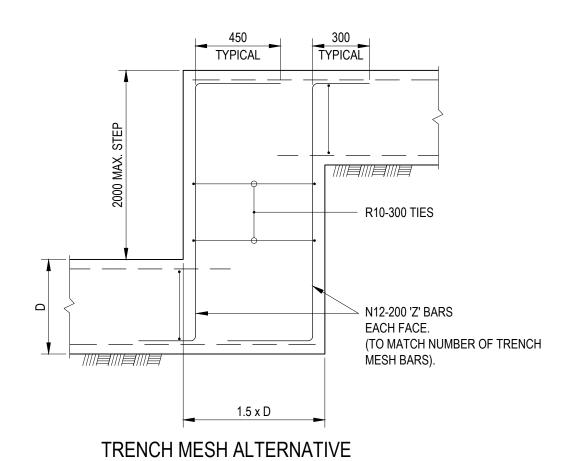


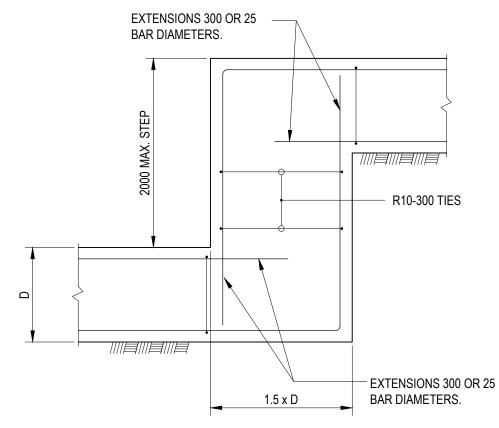


TRENCH MESH ALTERNATIVE

BAR REINFORCEMENT ALTERNATIVE

STRIP FOOTING STEP DETAILS STEP > 200 BUT < 2D





BAR REINFORCEMENT ALTERNATIVE

STRIP FOOTING STEP DETAILS FOR STEP > 2D BUT < 2000

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'	www.grannvflatsolutions.com.au				

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APPROVED	CHARBIL KHOUDAIR B.E., Dip.Eng.Prac., MIEAust, RPEng(Struc)., RPEQ	SIGNED	Omli	ISSUE No.	Α