

PROPOSED RESIDENTIAL DEVELOPMENT 128 GLENROCK PARADE KOOLEWONG NSW STRUCTURAL ENGINEERING PLANS

GENERAL NOTES (GN):

- GN1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH WRITTEN INSTRUCTIONS AS ISSUED DURING THE COURSE OF THE CONTRACT.
- GN2. THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR ENGINEERING PURPOSES ONLY. ALL DIMENSIONS ARE IN MILLIMETERS AND ALL LEVELS ARE IN METERS UNO. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE CONTRACTOR ON SITE. ENGINEERS' DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS. ALL DISCREPANCIES SHALL BE REFERRED TO THE DESIGN ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION.
- GN3. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE BCA, RELEVANT AUSTRALIAN STANDARDS, LOCAL COUNCIL AND OTHER STATUTORY AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION/CONTRACT.
- GN4. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR FOR THE INTEGRITY AND STABILITY OF WORKS AND EXCAVATIONS AT ALL TIMES.
- GN5. THE CONTRACTOR SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS. THE PCA SHALL PROVIDE A LIST OF CRITICAL STAGE INSPECTIONS REQUIRED TO BE UNDERTAKEN BY ENGINEER.
- GN6. THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND LOCAL GOVERNMENT ORDINANCES FOR THE FOLLOWING APPLIED ACTIONS:
- | FLOOR USAGE | IMPOSED ACTIONS (kPa) | PERMANENT ACTIONS (kPa) |
|-------------|-----------------------|-------------------------|
| RESIDENCE | 1.5 | - |
| BALCONIES | 2.0 | - |
| STAIRS | 2.0 | - |
| GARAGE | 5.0 | - |
| DRIVEWAY | 5.0 | - |
- WIND LOADS ARE IN ACCORDANCE WITH AS 4055:
- | | |
|---------------------|-------|
| REGION | A |
| TERRAIN CATEGORY | TC1.5 |
| TOPOGRAPHIC CLASS | T1 |
| SHIELDING | PS |
| WIND CLASSIFICATION | N3 |
- GN7. BULK EARTHWORKS, LEVELING AND PIERING TO BE CONFIRMED BY CONTRACTOR. FINAL EXTENT OF PIERING TO BE CONFIRMED ON SITE BY DESIGN ENGINEER FOR BUILDING AND SERVICE TRENCHING. GEOTECHNICAL ENGINEER TO INSPECT AND CERTIFY GROUNDWORKS WHERE REQUIRED BY PROJECT GEOTECHNICAL REPORT.
- GN8. ALL EXISTING SERVICES AND UTILITIES SHALL BE LOCATED AND RECORDED PRIOR TO COMMENCEMENT OF WORKS. ALL INFORMATION SHOWING SERVICES AND UTILITIES IS FOR PLANNING ONLY.

SAFETY IN DESIGN (SD):

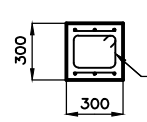
- SD1. DESIGN SAFETY ASSESSMENT HAS BEEN CARRIED OUT WITH REFERENCE TO WHS LEGISLATION. THE DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND COUNCIL ORDINANCES AND THE DESIGN IS SAFE AS REASONABLY PRACTICABLE FOR HAZARD AND RISK IDENTIFICATION BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN.
- SD2. THE DESIGN SAFETY ASSESSMENT IS LIMITED TO THE SCOPE OF WORKS CONSULTANCY COMMISSION.
- SD3. RISK RELATING TO CONSTRUCTION, OPERATION AND MAINTENANCE INCLUDING DEMOLITION SHALL BE CONSIDERED AND UNDERTAKEN BY QUALIFIED LICENCED CONTRACTORS UNDER ENGAGEMENT AND WHS CONSTRUCTION AND TRADE POLICY.
- SD4. TYPICAL RISK SOURCES/HAZARDS IDENTIFIED IN CONSTRUCTION PROCESSES:
- ALL RISKS ASSOCIATED WITH RESIDENTIAL WORKS;
 - MATERIALS SAFETY, MATERIALS SAFETY DATA SHEETS;
 - TRENCHING AND SHORING;
 - SAFETY RAILING ON FALL HEIGHTS EXCEEDING 1m.
- SD5. WHERE STATE OR TERRITORY LEGISLATION REQUIRES, A DESIGN VERIFICATION STATEMENT WILL BE PROVIDED BY THE DESIGN ENGINEER.



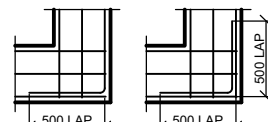
SHEET	DRAWING SCHEDULE
S 01	COVER SHEET AND LOCALITY PLAN
S 02	GARAGE SLAB & DWELLING FOOTING PLAN
S 03	RETAINING WALL DETAILS
S 04	BEAM MARKING PLANS
S 05	BEAM & FRAME DETAILS
S 06	STRUCTURAL NOTES



ALL UTILITIES ARE TO BE ACCURATELY LOCATED BY CONTRACTOR PRIOR TO CONSTRUCTION. ALL CONSTRUCTION WORK TO COMPLY WITH THE NCC.



TIE BEAM DETAIL TB
SCALE NTS



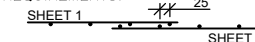
TRENCH MESH
CORNER LAP DETAIL
SCALE NTS

FOOTING NOTES (F):

- F1. ALL FOOTINGS TO BE FOUNDED ON THE SAME BEARING STRATA.
- F2. FOOTINGS DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 600 KPa ON INSITU SANDSTONE. FOOTINGS SHALL BE CENTRAL UNDER LOAD BEARING WALLS UNO.
- F3. FOOTINGS HAVE BEEN DESIGNED FOR "P" CLASS SITE CLASSIFICATION TO AS2870. REFER TO DESIGN ENGINEER WHERE SITE CONDITIONS VARY FROM SITE CLASSIFICATION. RESIDENTIAL SLABS AND FOOTINGS HAVE BEEN DESIGNED FOR SITE CLASSIFICATION "P" FOR "GLAD FRAME CONSTRUCTION" TO AS2870. FOUNDATION MATERIAL SHALL BE UNIFORM AND APPROVED BY THE INSPECTING ENGINEER.
- F4. PIERING TO CONFORM WITH THE FOLLOWING TABLE:
- | BEARING STRATA | DESIGN BEARING CAPACITY | SINGLE STORY | DOUBLE STORY |
|----------------------|-------------------------|-------------------------------------|---|
| SAND | 100kPa | 800x300 BUCKET PIERS @ 1800 MAX CTS | CONTINUOUS EDGE BEAM DEEPENING |
| CONTROLLED CLAY FILL | 150kPa | 700x300 BUCKET PIERS @ 1800 MAX CTS | CONTINUOUS EDGE BEAM DEEPENING OR 600Ø BORED PIERS @ 1200 CTS |
| STIFF NATURAL CLAY | 250kPa | 400Ø BORED PIERS @ 1800 MAX CTS | 400Ø BORED PIERS @ 1500 MAX CTS |
| SHALE ROCK | 450kPa | 300Ø BORED PIERS @ 1800 MAX CTS | 400Ø BORED PIERS @ 1500 MAX CTS |

PIER REINFORCEMENT TO BE DIRECTED BY ENGINEER ON SITE. WHERE ROCK STRATA EXPOSED DURING CONSTRUCTION PIER TO ROCK THROUGHOUT.

F5. FABRIC LAP REQUIREMENTS:



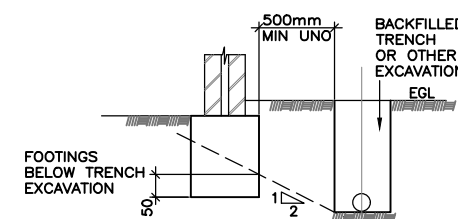
F6. STRUCTURAL DRAWING NOTATION (UNO):

- AJ - ARTICULATION JOINT TO AS 3700/AS 4773.
CJ - FULL HEIGHT CONSTRUCTION JOINT.
PF - PAD FOOTING/PIER FOOTING.
LBW - LOAD BEARING BRICK WALL.
NLBW - NON-LOAD BEARING WALL.
LBBW - LOAD BEARING RC BLOCK WALL.
LBCW - LOAD BEARING RC CONCRETE WALL.

- F7. PILING TO BE AT THE DIRECTION OF THE DESIGN AND INSPECTING ENGINEER. PROVIDE PILES AS DEPICTED ON PLAN.
PERIMETER BEAMS: xxxm MAX. CTS.; xxxkN S.W.L.
INTERNAL BEAMS: xxxm MAX. CTS.; xxxkN S.W.L.
REFER TO PILING NOTES ON DETAILS SHEET FOR SPECIFICATIONS. PROVIDE 150mm PENETRATION OF PILE INTO FOOTINGS UNO. REFER GEOTECHNICAL REPORT FOR SITE AGGRESSIVITY TESTING ACID SULPHATE/SALINITY CONDITION TO BE TESTED & CONFIRMED BY GEOTECHNICAL CONSULTANT PRIOR TO UNDERTAKING PILING.

- F8. PROVIDE TEST HOLES AS SHOWN. TH CAPACITY TO BE CONFIRMED PRIOR TO SLAB CONSTRUCTION. FOUNDATION MATERIAL SHALL BE UNIFORM AND BE APPROVED BY THE ENGINEER FOR THIS PRESSURE BEFORE PLACING MEMBRANE, REINFORCEMENT OR CONCRETE. (REFER PILING NOTES WHERE DESIGN BEARING CAPACITY NOT ACHIEVED)

- F9. SERVICE TRENCHING TO COMPLY WITH THE HOUSING PROVISIONS OF THE B.C.A. AND AS/NZS 3500, AND IN ACCORDANCE WITH LOCAL AUTHORITY SERVICE MAIN ZONE OF INFLUENCE REQUIREMENTS UNO.



- F10. SUBGRADE: UNO THE SLAB SHALL BE APPROVED MATERIAL COMPACTED TO 98% STANDARD M.D.D. BASE COURSE: BASE COURSE SHALL BE FINE CRUSHED ROCK, DGB20 OR OTHER APPROVED BY THE DESIGN ENGINEER SPREAD IN LAYERS NOT EXCEEDING 200mm AND COMPACTED TO 98% STANDARD M.D.D. IN ACCORDANCE WITH AS3798.

- F11. STRIP OFF ALL VEGETATION, RUBBISH & TOPSOIL CONTAINING ORGANIC MATTER FROM THE AREA OF THE WORKS AND REMOVE FROM SITE.

- F12. PRIOR TO ANY FILLING, THE EXPOSED SUBGRADE SHALL BE PROOF ROLLED WITH A MINIMUM OF 10 PASSES OF A 5 TONNE DEAD WEIGHT VIBRATING ROLLER. ANY SOFT OR YIELDING MATERIAL SHALL BE REMOVED AND REPLACED.

- F13. HIGH IMPACT VAPOUR PROOF MEMBRANE SHALL BE POLYTHENE SHEETING OF 0.2mm THICKNESS LAPPED 200mm AND TAPED AT JOINTS AND PIPE PENETRATIONS. 0.5mm MEMBRANE TO BE USED ON SITES SUBJECT TO ACID SULPHATE/SALINITY CONDITIONS IN ACCORDANCE WITH AS 2870 AND AS 3600.

COUNCIL NOTES (CC):

- CC1. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S CIVIL WORKS SPECIFICATION AND TO THE SATISFACTION OF THE COUNCIL INSPECTING ENGINEER.
- CC2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S CURRENT DCP ON EROSION AND SEDIMENTATION CONTROL AND MUST BE IMPLEMENTED PRIOR TO THE COMMENCEMENT OF ANY CIVIL ENGINEERING WORKS.
- CC3. THE DEVELOPER IS RESPONSIBLE FOR ONGOING MAINTENANCE OF EROSION AND SILTATION CONTROL MEASURES.
- CC4. ALL PUBLIC UTILITIES SHALL BE CLEARLY IDENTIFIED IN THE FIELD PRIOR TO ANY CIVIL WORKS. COUNCIL DOES NOT ACCEPT ANY RESPONSIBILITY FOR DAMAGE OR RELOCATION COSTS TO PUBLIC UTILITIES DURING CONSTRUCTION OF THE DEVELOPMENT.
- CC5. COUNCIL SHALL BE NOTIFIED 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORKS.
- CC6. IT IS THE SERVICE PROVIDERS RESPONSIBILITY TO ENSURE THAT ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE WORKPLACE, HEALTH AND SAFETY ACT 2011.
- CC7. PERMISSION TO ENTER, CONSTRUCT WORKS AND DISCHARGE STORMWATER ON ADJOINING PROPERTIES IS TO BE OBTAINED AND SUBMITTED TO COUNCIL PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- CC8. PAVEMENT TO BE DESIGNED AND CERTIFIED BY A PRACTICING CONSULTANT GEOTECHNICAL ENGINEER AND SUBMITTED TO COUNCIL FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- CC9. THESE PLANS SHALL BE READ IN CONJUNCTION WITH THE CONDITIONS STATED IN THE COUNCIL'S ENGINEERING PLAN APPROVAL CORRESPONDENCE AND THE CONDITIONS OF THE DEVELOPMENT CONSENT.
- CC10. IF THE STANDARD OR REQUIREMENTS FOR WORKS SHOWN ON THE DRAWINGS DIFFER FROM THAT REQUIRED BY COUNCIL'S CIVIL WORKS SPECIFICATION THEN THE REQUIRE OF THE CIVIL WORKS SPECIFICATION WILL GENERALLY PREVAIL. CLARIFICATION SHALL BE OBTAINED FROM COUNCIL'S REPRESENTATIVE IF THERE IS CONCERN THAT THE REQUIREMENTS OF COUNCIL'S SPECIFICATION REQUIREMENTS MAY NOT BE APPROPRIATE FOR A SPECIFIC CIRCUMSTANCE.
- CC11. THE DEVELOPER SHALL ADDRESS ALL PRE CONSTRUCTION REQUIREMENTS OF COUNCIL'S CIVIL WORKS SPECIFICATION PRIOR TO COMMENCEMENT OF ANY WORKS.

6.7.22 01 - CC. ISSUE

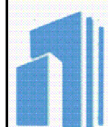
DATE: DRAWING ISSUE:

CLIENT:

WITE

PROJECT:

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