

PLOT DATE: 30/11/2017 8:28:17 AM
 DRAWING LOCATION: S:\PROJECT RECORDS\17.18\A3\17.18 TOONOBA\STRUCTURAL SHEETS\NOTES 01.DWG

GENERAL NOTES

- G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL SUCH OTHER WRITTEN INSTRUCTION OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
- G2. ALL DISCREPANCIES SHALL BE REFERRED TO THE PROJECT SUPERINTENDENT FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- G3. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT SAA CODES AND THE BY-LAWS, ORDINANCES AND REQUIREMENTS OF RELEVANT BUILDING AND STATUTORY AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
- G4. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND FABRICATION.
- G5. ALL DIMENSIONS ARE IN MILLIMETRES AND ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
- G6. NOMINATION OF PROPRIETARY ITEMS DOES NOT INDICATE EXCLUSIVE PREFERENCE, BUT INDICATES THE MINIMUM REQUIRED PROPERTIES OF THE ITEM. SIMILAR ALTERNATIVES HAVING AT LEAST THE MINIMUM REQUIRED PROPERTIES MAY BE OFFERED FOR APPROVAL. INSTALL PROPRIETARY ITEMS STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- G7. TAKE ALL REASONABLE PRECAUTIONS TO ESTABLISH THE LOCATION OF, AND PROTECT, EXISTING SERVICES AT THE SITE. SERVICES SHOWN ON THE DRAWINGS ARE IN APPROXIMATE LOCATIONS ONLY. SERVICES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE.
- G8. THE ENGINEERING DRAWINGS MUST NOT BE SCALED FOR DIMENSIONS.
- G9. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED BY CONSTRUCTION ACTIVITY. TEMPORARY SUPPORT SHALL BE PROVIDED AS REQUIRED TO KEEP ALL CONSTRUCTION WORKS STABLE.

DESIGN CRITERIA

- D1. THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED FOR LOADINGS GENERALLY IN ACCORDANCE WITH AS 1170.1:2002, IN PARTICULAR THE FOLLOWING:

LIVE LOADS

| AREA | LOAD |
|-----------------|---------------------------|
| ROOF | 1.1 kN <u>OR</u> 0.25 kPa |
| FLOOR GENERALLY | 4.5 kN <u>OR</u> 5.0 kPa |

WIND LOADS

| | |
|--------------------------------------|--|
| REGION | C |
| IMPORTANCE LEVEL | 2 |
| REFERENCE PROBABILITY OF EXCEEDANCE | R _{ULTIMATE} = 500 R _{SERVICABILITY} = 25 |
| TERRAIN CATEGORY | 2.5 |
| ULTIMATE DESIGN SITE WIND SPEED | 61 m/s |
| SERVICABILITY DESIGN SITE WIND SPEED | 41 m/s |
| PRESSURE COEFFICIENTS | C _{p,i} = - 0.58 C _{p,w} = - 0.48 |

ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS

These plans are approved subject to the
 current conditions of approval associated with

Development Permit No: D/5-2018

Dated: 15 February 2018

STEELWORK

- S1. STRUCTURAL STEELWORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AS 4100 AND AS/NZS 5131.
- S2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING TABLE U.N.O.

| COMPONENT | AUSTRALIAN STANDARDS | GRADE |
|---|-----------------------|----------------------------|
| HOT ROLLED SECTION | AS/NZS 3679.1; TS 102 | 300 |
| WELDED BEAMS AND COLUMNS | AS/NZS 3679.2; TS 102 | 300 |
| PLATE | AS/NZS 3678; TS 102 | 250 |
| FLAT | AS/NZS 1594; TS 102 | 300 |
| QUENCH AND TEMPERED PLATE | AS 3597 | 690 |
| HOLLOW SECTIONS: CIRCULAR (CHS) SQUARE (SHS) RECTANGULAR (RHS) | AS/NZS 1163; TS102 | C350L0 C350L0 C350L0 |

- S3. ALL STRUCTURAL STEEL SHALL BE SOURCED FROM MILLS WITH A RELEVANT JAS ANZ ACCREDITED THIRD-PARTY CERTIFICATION SCHEME (e.g. ACRS SCHEME). ALTERNATIVE SOURCING OF THIRD-PARTY CERTIFIED STRUCTURAL STEEL SHALL BE SUBMITTED FOR REVIEW AND MUST BE APPROVED PRIOR TO COMMENCEMENT OF PROCUREMENT.
- S4. IN ACCORDANCE WITH AS/NZS 5131, THE CONSTRUCTION CATEGORIES ARE:

| | ELEMENT | IMPORTANCE LEVEL | SERVICE CATEGORY | FABRICATION CATEGORY | CONSTRUCTION CATEGORY |
|---|-------------------------|------------------|------------------|----------------------|-----------------------|
| 1 | ALL STRUCTRAL STEELWORK | IL2 | SC1 | FC1 | CC2 |

- S5. THE PROPRIETOR SHALL BE RESPONSIBLE FOR SHOP DRAWINGS THAT SHALL COMPLY WITH THESE DRAWINGS.
- S6. UNLESS OTHERWISE SHOWN ON THE DRAWINGS:
(I) STANDARD CONNECTION DETAILS SHALL CONFORM TO AUSTRALIAN STEEL INSTITUTE'S STANDARDISED STRUCTURAL CONNECTIONS.
(II) ENSURE MEMBERS ARE CONCENTRIC AT CONNECTIONS.
(III) PROVIDE STEEL MEMBERS MADE FROM WHOLE LENGTHS WHEREVER POSSIBLE. IF NECESSARY, MAKE LENGTHS UP OF SECTIONS JOINED BY COMPLETE PENETRATION FULL STRENGTH BUTT WELDS GROUND FLUSH. WHERE THIS IS PROPOSED, SHOW THE JOINTS ON THE SHOP DRAWINGS.
(IV) PROVIDE BEAM CHAMBER AS NOTED.
(V) SHOP DRAWINGS SHALL BE SUBMITTED TO THE PRINCIPAL FOR APPROVAL PRIOR TO THE COMMENCEMENT OF FABRICATION.
- S7. ALL STRUCTURAL STEELWORK SHALL BE FABRICATED BY COMPETENT PERSONNEL IN ACCORDANCE WITH AS/NZS 5131.
- S8. FABRICATION TOLERANCES SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131. THE TOLERANCE CLASS FOR FUNCTIONAL TOLERANCE SHALL BE CLASS 1 U.N.O.
- S9. ALL CUTTING, HOLING AND SHAPING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131. PENETRATIONS OR CUT-OUTS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL NO BE MADE WITHOUT PRIOR APPROVAL.

STRUCTURAL STEEL PROTECTIVE COATINGS

- SP1. UNLESS NOTED OTHERWISE, FOR THE ELEMENTS ON THIS PROJECT, THE TREATMENT GRADES ACCORDING TO AS/NZS 5131 SHALL BE:

| | ELEMENT | TREATMENT GRADE |
|---|--|-----------------|
| 1 | ALL PAINTED STRUCTRAL STEELWORK U.N.O. | P2 |

- SP2. THE COATING QUALITY LEVEL ASSESSED IN ACCORDANCE WITH AS/NZS 5131 SHALL BE:

| | ELEMENT | COATING QUALITY |
|---|--|-----------------|
| 1 | ALL PAINTED STRUCTRAL STEELWORK U.N.O. | PC2 |

- SP3. STEELWORK TO BE HOT DIPPED GALVANISED IN ACCORDANCE WITH AS 4680, SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

STRUCTURAL STEEL WELDING

- SW1. (A) WELDING SHALL BE PERFORMED BY AN EXPERIENCED OPERATOR IN ACCORDANCE WITH AS 1554 - CATEGORY SP.
(B) MANUAL METAL ARC ELECTRODES SHALL BE E48XX IN ACCORDANCE WITH AS 1553.1. OTHER WELDING METHODS SHALL USE EQUIVALENT NOMINAL TENSILE STRENGTH WELD METALS.
(C) WELDING SYMBOLS ARE IN ACCORDANCE WITH AS 1101 PART 3
(D) BUTT WELDS SHALL BE PRE-QUALIFIED FULL PENETRATION UNLESS NOTED OTHERWISE.

- (E) ALL SHOP FABRICATED JOINTS FOR STRUCTURAL STEEL SHALL BE FULLY WELDED USING 6 mm CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE.
(F) CLEATS TO BE 10 mm PLATE UNLESS NOTED OTHERWISE.
(G) ALL PLATES, GUSSETS, ETC. SHALL HAVE SHARP EDGES AND CORNERS GROUND SMOOTH.
SW2. WELD TESTING SHALL BE IN ACCORDANCE WITH AS 1554.1 SECTION 7 AS FOLLOWS:
(I) VISUAL SCANNING 100%
(II) VISUAL EXAMINATION 50%
(III) DYE PENETRANT OR - BUTT WELDS 100%
MAGNETIC PARTICLE EXAMINATION - FILLET WELDS 10%

STRUCTURAL STEEL BOLTING

- SB1. BOLT DESIGNATION

| DESIGNATION | DESCRIPTION |
|------------------------------|--|
| 4.6/S 4.6N/S 4.6X/S | COMMERCIAL GRADE 4.6 BOLTS TO AS 1111, TIGHTEND TO A SNUG TIGHT CONDITION TO AS/NZS 5131. 4.6N/S BOLTS MAY HAVE THREADS INCLUDED IN THE JOINT SHEAR PLANE. 4.6X/S BOLTS SHALL HAVE THREADS EXCLUDED FROM THE JOINT SHEAR PLANE. |
| 8.8/S 8.8N/S 8.8X/S | HIGH STRENGTH, STRUCTURAL, GRADE 8.8 BOLTS TO AS 1252.1, TIGHTEND TO A SNUG TIGHT CONDITION TO AS/NZS 5131. 8.8N/S BOLTS MAY HAVE THREADS INCLUDED IN THE JOINT SHEAR PLANE. 8.8X/S BOLTS SHALL HAVE THREADS EXCLUDED FROM THE JOINT SHEAR PLANE. |
| 8.8/TB 8.8N/TB 8.8X/TB | HIGH STRENGTH, STRUCTURAL, GRADE 8.8 BOLTS TO AS 1252.1, FULLY TENSIONED TO AS/NZS 5131 AS A BEARING JOINT. 8.8N/TB BOLTS MAY HAVE THREADS INCLUDED IN THE JOINT SHEAR PLANE. 8.8X/TB BOLTS SHALL HAVE THREADS EXCLUDED FROM THE JOINT SHEAR PLANE. |
| 8.8/TF 8.8N/TF 8.8X/TF | HIGH STRENGTH, STRUCTURAL, GRADE 8.8 BOLTS TO AS 1252.1, FULLY TENSIONED TO AS/NZS 5131 AS A FRICTION JOINT. 8.8N/TF BOLTS MAY HAVE THREADS INCLUDED IN THE JOINT SHEAR PLANE. 8.8X/TF BOLTS SHALL HAVE THREADS EXCLUDED FROM THE JOINT SHEAR PLANE. |


- SB2. (A) UNLESS NOTED OTHERWISE PROVIDE M20 HIGH STRENGTH BOLTS, NUTS AND WASHERS, HOT DIPPED GALVANISED TO AS/NZS 1214.
(B) ALL HIGH STRENGTH STRUCTURAL BOLTS SHALL BE VERIFIED TO AS 1252.2. A SUPPLIER DECLARATION OF CONFORMITY IN ACCORDANCE WITH AS 1252.2 SHALL BE PROVIDED.
(C) ALL BOLTS TO BE SNUG TIGHTENED IN ACCORDANCE WITH AS/NZS 5131 UNLESS NOTED OTHERWISE.
(D) ALL BOLTS SHALL BE OF SUCH LENGTH THAT AT LEAST TWO FULL THREAD IS EXPOSED BEYOND THE NUT AFTER THE NUT HAS BEEN TIGHTENED.
(E) USE BOLTS WITH THREADS IN COMPLIANCE WITH AS 1275 AND WASHERS IN COMPLIANCE WITH AS 1237 U.N.O.
(F) MINIMUM ONE WASHER SHALL BE USED UNDER THE NUT IN ALL SITUATIONS. IF TIGHTENING IS CARRIED OUT AT THE HEAD, AN ADDITIONAL WASHER SHALL BE USED UNDER THE HEAD. FOR SLOTTED HOLES USE HARDENED WASHERS UNDER THE NUT AND BOLT HEAD.
(G) ALL EXPOSED NUTS, BOLTS AND WASHERS (INCLUDING H.D. BOLTS) TO BE HOT DIPPED GALVANISED TO AS 1214 UNLESS NOTED OTHERWISE.
(H) HOLDING DOWN BOLTS TO BE SUPPLIED COMPLETE WITH LEVELLING NUTS, NUTS AND EXTRA LARGE FLAT WASHERS.
(I) TIE HOLDING DOWN BOLT GROUPS RIGIDLY TOGETHER PRIOR TO INSTALLATION. PROVIDE A MINIMUM 3 mm THICK MILD STEEL PLATE TEMPLATE. BOLT GROUPS USING GRADE 4.6 BOLTS CAN BE TACK WELDED TOGETHER USING R10 BAR TO FORM A CAGE. DO NOT WELD GRADE 8.8 BOLTS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
(J) ALL M12 BOLTS AND CAST-IN HOLD DOWN BOLTS ARE IN 4.6/S PROCEDURE UNLESS NOTED OTHERWISE.
- SB3. WHERE /TB AND /TF TENSION METHODS HAVE BEEN SPECIFIED, BOLTS SHALL BE INSTALLED USING EITHER THE PART TURN METHOD OR THE DIRECT TENSION INDICATOR METHOD IN ACCORDANCE WITH AS/NZS 5131.
- SB4. WHERE /TF TENSION METHODS HAVE BEEN SPECIFIED, A FRICTION COEFFICIENT OF 0.35 HAS BEEN ADOPTED FOR THE DESIGN. THE CONTACT SURFACES SHALL BE PREPARED IN ACCORDANCE WITH AS/MZS 5131 AND BE FREE FROM PAINT, LACQUER OR OTHER APPLIED FINISHES UNLESS THE APPLIED FINISH HAS BEEN TESTED IN ACCORDANCE WITH AS/NZS 5131 APPENDIX G AND A FRICTION COEFFICIENT OF 0.35 OR HIGHER IS DETERMINED.

STRUCTURAL STEEL ERECTION

- SE1. STRUCTURAL STEELWORK ERECTION SHALL CONFORM TO AS/NZS 5131.
- SE2. ALL MEMBERS HAVING A NATURAL CAMBER WITHIN THE STRAIGHTNESS TOLERANCE SHALL BE ERECTED WITH THE NATURAL CAMBER UP.
- SE3. (A) ERECTION TOLERANCES SHALL COMPLY TO THE REQUIREMENTS OF AS/NZS 5131.
(B) THE TOLERANCE CLASS FOR FUNCTIONAL TOLERANCES SHALL BE CLASS 1 UNLESS NOTED OTHERWISE.
- SE4. SUBMIT THE ERECTION SEQUENCE METHODOLOGY.

ISSUED FOR CONSTRUCTION

| SURVEYOR | | | | | | | | | | | BY | DATE | CLIENT | PREPARED BY | 0431718 | CLIENT | ROCKHAMPTON REGIONAL COUNCIL |
|-------------------|-------------|-------------------------|-----|------|---------------------------|-------------------------|---------|-----|---------|--|----------|------|--------|-------------|---------|----------------|--|
| ADDRESS: | | | | | | | | | | | REVIEWED | | | | | PROJECT | TOONOBA PARK AMENITIES AND SHADE STRUCTURE |
| CO-ORDINATE DATUM | | | | | | | | | | | RPEQ ENG | | | | | TITLE | TOONOBA PARK AMENITIES AND SHADE STRUCTURE |
| HEIGHT DATUM | | | | | | | | | | | | | | | | NOTES | |
| | DRAWING No. | REFERENCE DRAWING TITLE | REV | DATE | SUBMITTED FOR INFORMATION | ISSUED FOR CONSTRUCTION | IBB | SS | | | | | | | | SHEET 1 OF 2 | |
| | | | REV | DATE | REVISION DESCRIPTION | DFT | DFT CHK | DES | DES CHK | | | | | | | DRAWING NUMBER | |
| | | | | | | | | | | | | | | | | A1 | 0431718-S-0001 |
| | | | | | | | | | | | | | | | | | REVISION |
| | | | | | | | | | | | | | | | | | B |



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CLIENT: ROCKHAMPTON REGIONAL COUNCIL

PROJECT: TOONOBA PARK AMENITIES AND SHADE STRUCTURE

TITLE: TOONOBA PARK AMENITIES AND SHADE STRUCTURE

NOTES: SHEET 1 OF 2

DRAWING NUMBER: A1

0431718-S-0001

REVISION: B

PLOT DATE: 30/11/2017 8:01:20 AM DRAWING LOCATION: S:\PROJECT RECORDS\17-8943\17-18 TOONOBA\STRUCTURAL SHEETS\NOTES\02.DWG

TIMBER FRAMING

- T1. UNLESS NOTED OTHERWISE, ALL STRUCTURAL TIMBER FRAMING AND CONNECTIONS SHALL COMPLY WITH:
- AS 1720.1-2010 TIMBER STRUCTURES PART 1: DESIGN METHODS
 - AS 1684.3-2010 RESIDENTIAL TIMBER-FRAMED CONSTRUCTION PART 3: CYCLONIC AREAS
- T2. PROVIDE TIMBER WITH DURABILITY CLASS AND/OR PRESERVATIVE TREATMENT SUITED TO THE INTENDED APPLICATION AS RECOMMENDED BY AS 1684.
- T3. UNLESS NOTED OTHERWISE, STRUCTURAL TIMBER SHALL HAVE THE FOLLOWING PROPERTIES:

| DESCRIPTION | GRADE | STRENGTH GROUP | JOINT GROUP |
|-----------------------|----------------|----------------|-------------|
| HARDWOOD - SEASONED | F17 | SD3 | JD2 |
| HARDWOOD - UNSEASONED | F14 | S3 | J2 |
| SOFTWOOD - SEASONED | MGP10 MGP12 | SD6 | JD4* |

- * HEART-IN MATERIAL IS TO BE EXCLUDED FOR MGP 10 JD4 CLASSIFICATION
- T4. ALL BOLTS/THREADED RODS IN TIMBER FRAMING SHALL HAVE WASHERS UNDER BOLT HEAD AND NUT RESPECTIVELY WHERE THE BOLT HEAD/NUT BEARS ON THE TIMBER. WASHER SIZES SHALL BE:

| BOLT SIZE | WASHER THICKNESS (mm) | WASHER DIAMETER (mm) | WASHER SIDE, IF SQUARE (mm) |
|-----------|-----------------------|----------------------|-----------------------------|
| M10 | 2.5 | 45 | 40 |
| M12 | 3.0 | 55 | 50 |
| M16 | 4.0 | 65 | 57 |
| M20 | 5.0 | 75 | 65 |

- T5. ALL BOLTS, THREADED RODS, NUTS, AND WASHERS SHALL BE EITHER HOT DIPPED GALVANISED OR STAINLESS STEEL.
- T6. IN COASTAL AREAS SUBJECT TO CORROSION FROM SALT LADEN AIR, ALL EXPOSED STRUCTURAL FASTENERS (BOLTS, SCREWS, NAILS AND THE LIKE) SHALL BE SUITABLE STAINLESS STEEL FASTENERS.

FOUNDATION SYSTEMS

- F1. FOUNDATION SYSTEMS HAVE GENERALLY BEEN DESIGNED IN ACCORDANCE WITH AS 2870-2011, ACCEPTED ENGINEERING PRACTICE AND PRINCIPLES.
- F2. IN DESIGNING THE FOUNDATION SYSTEM, WE HAVE RELIED UPON BUTLER PARTNERS' REPORT, THEIR PROJECT No. R17-204A, TITLED "GEOTECHNICAL INVESTIGATION PROPOSED SHADE STRUCTURE AND ABLUTION BLOCK TOONOBA PARK, 287-289 QUAY STREET, ROCKHAMPTON", DATED 20/11/2017, WHICH NOMINATES:
- (I) SITE CLASS 'P' WITH UPTO 1400 DEEP UNCONTROLLED FILL.
- (II) BORED CAST INSITU PILES DESIGNED BASED ON MAXIMUM ALLOWABLE WORKING BEARING PRESSURE.
- AT SHAFT = 15 KPa
 - AT BASE = 150 KPa
- ADDITIONAL INFORMATION WE HAVE RELIED UPON INCLUDES REAL PROPERTY DESCRIPTION, EXISTING LEVELS, STRUCTURES, DRAINAGE AND TREES, AND PROPOSED BUILDING AND EARTH WORKS.
- F3. FOR FOUNDATION SYSTEMS FOUNDED ON REACTIVE CLAY SITES:
- UNLESS ACKNOWLEDGED IN WRITING, NO ALLOWANCE FOR ABNORMAL MOISTURE CONDITIONS (REFER AS 2870-2011 CLAUSE 1.3.3) HAS BEEN MADE. SHOULD SUCH CONDITIONS EXIST, THE ENGINEER IS TO BE NOTIFIED AND THEIR OPINION SOUGHT.
- (I) IT IS THE RESPONSIBILITY OF THE BUILDER TO COMPLY WITH THE REQUIREMENTS OF CLAUSE 5.6 OF AS 2870-2011.
- (II) THE FOUNDATION SYSTEM/S HAS GENERALLY BEEN DESIGNED FOR ARTICULATED CLADDING IN ACCORDANCE WITH AS 2870-2011. ARTICULATION OF OTHER EXTERNAL, AND INTERNAL LININGS SHOULD COMPLIMENT THE ARTICULATION OF EXTERNAL WALLS.
- (III) THE OWNER IS TO MAINTAIN THE LANDSCAPE WITHIN AND SURROUNDING THE FOUNDATION SYSTEM SO AS TO MAINTAIN A RELATIVELY CONSISTENT LONG TERM MOISTURE REGIME WITHIN THE SOIL. GUIDES AS TO HOW TO ACHIEVE THIS MAY BE FOUND IN THE FOLLOWING LITERATURE:
- AS 2870-2011 RESIDENTIAL SLABS AND FOOTINGS, SECTION 5 AND 6;
 - CSIRO BUILDING TECHNOLOGY FILE BTF18-2003 "FOUNDATION AND FOOTING PERFORMANCE: A HOMEOWNERS GUIDE", AVAILABLE FROM www.csiro.com.au.
 - QUEENSLAND BUILDING AND CONSTRUCTION COMMISSION "A SIMPLE HOW TO GUIDE TO PREVENTING STRUCTURAL DAMAGE TO YOUR HOME" AVAILABLE FROM www.qbcc.qld.gov.au.

CONCRETE

IN ACCORDANCE WITH AS 3600

- C1. ALL STRUCTURAL CONCRETE SHALL BE IN ACCORDANCE WITH AS 3600. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600, AS 3610 AND AS 1379.
- C2. COVER TO REINFORCEMENT AND CONCRETE GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE: -

| ELEMENT | EXPOSURE | COVER | | GRADE (MIN.) |
|----------|---------------|------------------------------|--------------------|--------------|
| | | SURFACES CAST AGAINST GROUND | FORMED OR FINISHED | |
| FOOTINGS | NON-AGRESSIVE | 50 | 50 | N25 |
| SLABS | EXTERIOR | 50 | 30 | N32 |

- (I) COVER IS THE CLEAR DISTANCE BETWEEN ANY REINFORCING (INCLUDING FITMENTS) AND THE FACE OF THE STRUCTURAL ELEMENT.
- (II) FOR ALL EXTERNAL SURFACES, PROVIDE FULLY PLASTIC BAR CHAIRS. TIE WIRE SHALL NOT BE NAILED TO THE FORMS.
- (III) PROVIDE AN APPROVED 0.20 mm DAMP PROOF MEMBRANE UNDER ALL CONCRETE SURFACES ON GROUND.
- (IV) THE REINFORCEMENT COVERS SHALL BE MAINTAINED USING APPROVED BAR CHAIRS. IN SLABS THE BAR CHAIRS SHALL BE AT 800 mm x 800 mm MAXIMUM CENTRES.
- C3. ALL CONCRETE SUPPLIED SHALL BE NORMAL CLASS CONCRETE IN ACCORDANCE WITH AS 3600 AND HAVE A SLUMP OF 80 mm AND A MAXIMUM NOMINAL AGGREGATE SIZE OF 20 mm UNLESS NOTED OTHERWISE. THE ENGINEER SHALL APPROVE VARIATIONS FROM THESE.
- C4. USE READY MIX CONCRETE MIXED BY THE BATCH PRODUCTION PROCESS DELIVERED IN AGITATING TRUCKS. OBTAIN APPROVAL BEFORE ADDING WATER AT THE SITE. FOR EACH BATCH OF CONCRETE, SUPPLY A DOCKET LISTING THE INFORMATION REQUIRED BY AS 1379 CLAUSE 1.7.3 AND THE FOLLOWING:
- (I) THE ELEMENT FOR WHICH THE CONCRETE WAS ORDERED;
- (II) THE TOTAL AMOUNT OF WATER ADDED AT THE PLANT AND THE MAXIMUM AMOUNT PERMITTED TO BE ADDED AT SITE; AND
- (III) THE AMOUNT OF WATER, IF ANY, ADDED AT THE SITE.
- C5. THE MANUFACTURER IS TO CARRY OUT PRODUCTION ASSESSMENT OF CONCRETE FOR COMPLIANCE WITH THE REQUIREMENTS OF AS 3600 SECTION 17.1, AND AS 1379. FORWARD PRODUCTION ASSESSMENT REPORTS TO THE SUPERINTENDENT AS PER AS 1379 APPENDIX B6.
- C6. USE CONCRETE PLACING METHODS TO MINIMISE PLASTIC SETTLEMENT AND SHRINKAGE CRACKING. LIMIT VERTICAL FREE FALL OF CONCRETE TO LESS THAN 1500 mm. PROPERLY COMPACT CONCRETE USING MECHANICAL VIBRATION TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION.
- C7. KEEP ON SITE A LOG BOOK RECORDING EACH CONCRETE PLACEMENT INCLUDING DATE, BATCH DOCKET NUMBER, PORTION OF THE WORK, AND VOLUME PLACED.
- C8. PROVIDE PROPOSED LOCATION AND DETAILS OF CONSTRUCTION JOINTS FOR THE SUPERINTENDENT'S APPROVAL PRIOR TO CONSTRUCTION. CONSTRUCTION JOINTS IN SLABS SHALL BE VERTICAL AND IN WALLS SHALL BE HORIZONTAL. ENSURE CONSTRUCTION JOINT SURFACES ARE CLEAN AND FREE OF LAITANCE, LOOSE MATERIAL AND FOREIGN MATTER, AND DELIBERATELY ROUGHENED IN ACCORDANCE WITH TABLE 8.4.4 OF AS 3600. PRIOR TO PLACING ADJACENT FRESH CONCRETE, PRIME EXISTING CONCRETE SURFACE WITH BASF "CONCRESE 2525" OR APPROVED EQUIVALENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- C9. ALL TRAFFICABLE SLABS SHALL BE FINISHED WITH A NON-SLIP SURFACE. ALL OTHER EXPOSED SURFACES SHALL BE FINISHED TO A CLASS 4 SURFACE FINISH IN ACCORDANCE WITH AS 3610.
- C10. ALL FORMED EXPOSED EDGES AND RE-ENTRANT CORNERS SHALL BE CHAMFERED OF FILLETED 20 mm.
- C11. DO NOT MAKE HOLES, CHASES NOR EMBED PIPES, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, WITHOUT THE APPROVAL OF THE SUPERINTENDENT.
- C12. COMMENCE CURING OF CONCRETE IN ACCORDANCE WITH AS 3600 AS SOON AS PRACTICABLE AFTER PLACING OR STRIPPING. ACCEPTABLE METHODS OF CURING INCLUDE: -
- (I) MOIST CURING BY PONDING OR CONTINUOUS SPRINKLING OF WATER;
- (II) AN IMPERMEABLE MEMBRANE;
- (III) AN ABSORPTIVE COVER KEPT CONTINUOUSLY WET;
- (IV) STEAM CURING; AND
- (V) AN APPROVED CURING COMPOUND.
- IF IT IS PROPOSED TO USE A LIQUID MEMBRANE FORMING CURING COMPOUND SUBMIT THE FOLLOWING INFORMATION:
- CERTIFIED TEST RESULTS FOR WATER RETENTION TO AS 3799 APPENDIX B;
 - EVIDENCE THAT AN ACCEPTABLE FINAL CONCRETE SURFACE COLOUR WILL BE OBTAINED;
 - EVIDENCE OF COMPATIBILITY WITH APPLIED FINISHES, IF ANY;
 - METHODS OF OBTAINING THE REQUIRED ADHESION FOR TOPPINGS, RENDER AND THE LIKE, IF ANY.
- C13. PROTECT FRESH CONCRETE FROM PREMATURE DRYING AND FROM EXCESSIVE HOT AND COLD TEMPERATURES. MAINTAIN THE CONCRETE AT A REASONABLY CONSTANT TEMPERATURE WITH MINIMUM MOISTURE LOSS FOR THE CURING PERIOD.

REINFORCEMENT

- R1. SYMBOLS ON DRAWINGS FOR GRADE AND TYPE OF REINFORCEMENT ARE AS FOLLOWS: -
- R - GRADE 250R PLAIN ROUND BAR TO AS 1302, NORMAL DUCTILITY CLASS
- N - GRADE D500N DEFORMED BAR TO AS/NZS 4671, NORMAL DUCTILITY CLASS
- W - GRADE 450W PLAIN OR DEFORMED WIRE TO AS 1303, LOW DUCTILITY CLASS
- L - GRADE D500L PLAIN, DEFORMED OR INDENTED WELDED WIRE MESH TO AS/NZS 4671, LOW DUCTILITY CLASS
- R2. THE FOLLOWING ABBREVIATIONS APPLY TO THE PLACEMENT AND LOCATION OF THE REINFORCEMENT: -
- E.W. - EACH WAY E.F. - EACH FACE N.F. - NEAR FACE
- F.F. - FAR FACE BTM. - BOTTOM TYP. - TYPICAL
- R3. PROVIDE STANDARD HOOKS AND COGS IN ACCORDANCE WITH AS 3600. TERMINATE ENDS OF COLUMN AND BEAM LIGATURES IN A HOOK OF AT LEAST 135°.
- R4. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY IN TRUE PROJECTION. SET REINFORCEMENT OUT AT EQUAL CENTRES WHERE SPACING IS NOT NOMINATED.
- R5. SECURE REINFORCEMENT, INCLUDING FITMENTS AND STARTER BARS, BY APPROVED CHAIRS, SPACERS, TIES AND THE LIKE AS REQUIRED TO PROVIDE ADEQUATE SUPPORT AND TO PREVENT DISPLACEMENT DURING SUBSEQUENT CONCRETE PLACEMENT WITHIN THE TOLERANCES SPECIFIED IN CLAUSE 17.5.3 OF AS 3600.
- R6. SPLICE REINFORCEMENT ONLY AT LOCATIONS SHOWN ON THE DRAWINGS OR AS APPROVED BY THE SUPERINTENDENT. SUBMIT DETAILS FOR APPROVAL OF ANY PROPOSED MECHANICAL SPLICES.
- R7. LAP LENGTHS SHALL COMPLY WITH AS 3600 OR ALTERNATIVELY WITH THE FOLLOWING PROVIDED THERE IS AT LEAST 40 mm COVER TO THE BAR AND THE CLEAR DISTANCE BETWEEN ADJACENT PARALLEL BARS DEVELOPING STRESS IS AT LEAST 80 mm: -

| LOCATION | P\ C\ | BAR SIZE | | | | | | |
|--|-------|----------|-----|------|------|------|------|------|
| | | N12 | N16 | N20 | N24 | N28 | N32 | N36 |
| HORIZONTAL BARS WITH >= 300 mm OF CONCRETE BELOW THE BAR | <= 25 | 475 | 750 | 1100 | 1500 | 1950 | 2450 | 3000 |
| | 32 | 375 | 575 | 850 | 1200 | 1550 | 1950 | 2350 |
| | >=40 | 325 | 500 | 750 | 1050 | 1400 | 1750 | 2100 |
| ALL OTHER BARS | <= 25 | 350 | 575 | 850 | 1200 | 1550 | 1950 | 2400 |
| | 32 | 300 | 450 | 675 | 950 | 1200 | 1550 | 1900 |
| | >= 40 | 300 | 400 | 600 | 850 | 1100 | 1400 | 1700 |

- LAPPED SPLICES FOR WELDED WIRE MESH SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSE 13.2.3 OF AS 3600.
- R8. DO NOT WELD REINFORCEMENT UNLESS SHOWN ON THE DRAWINGS OR OTHERWISE APPROVED BY THE SUPERINTENDENT. WHERE WELDING OF REINFORCEMENT IS ALLOWED, INCLUDING TACK WELDING, IT SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF AS 3600 AND AS 1554 PART 3. DO NOT WELD REINFORCEMENT WITHIN 75 mm OF A PORTION OF THE BAR THAT HAS BEEN BENT.
- R9. DO NOT CUT, BEND NOR HEAT REINFORCEMENT ON SITE WITHOUT THE SUPERINTENDENTS APPROVAL.
- R10. WHERE ROUND BAR DOWELS ARE SPECIFIED, THEY SHALL BE HOT DIP GALVANISED, STRAIGHT, SMOOTH DOWELS FREE FROM BURRS WITH SAWN ENDS, NOT SHEARED. UNLESS NOTED OTHERWISE, INSTALL DOWELS PARALLEL TO THE FINISHED SURFACE AND PERPENDICULAR TO THE PLANE OF THE JOINT. MAINTAIN DOWEL ALIGNMENT BY THE USE OF A SUITABLE SUPPORT ASSEMBLY TO ENSURE SUITABLE HORIZONTAL AND VERTICAL ALIGNMENT TOLERANCE OF 1 IN 100. DO NOT INSERT DOWELS DURING THE PLACEMENT OF CONCRETE.

ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS

These plans are approved subject to the
current conditions of approval associated with

Development Permit No: **D/5-2018**

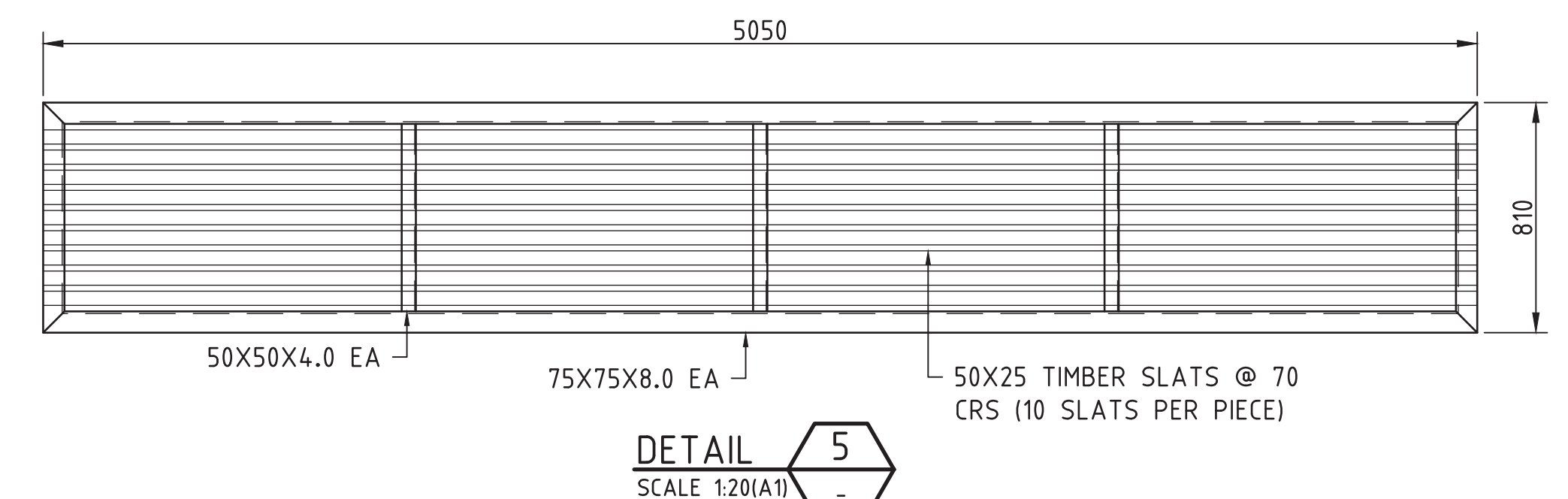
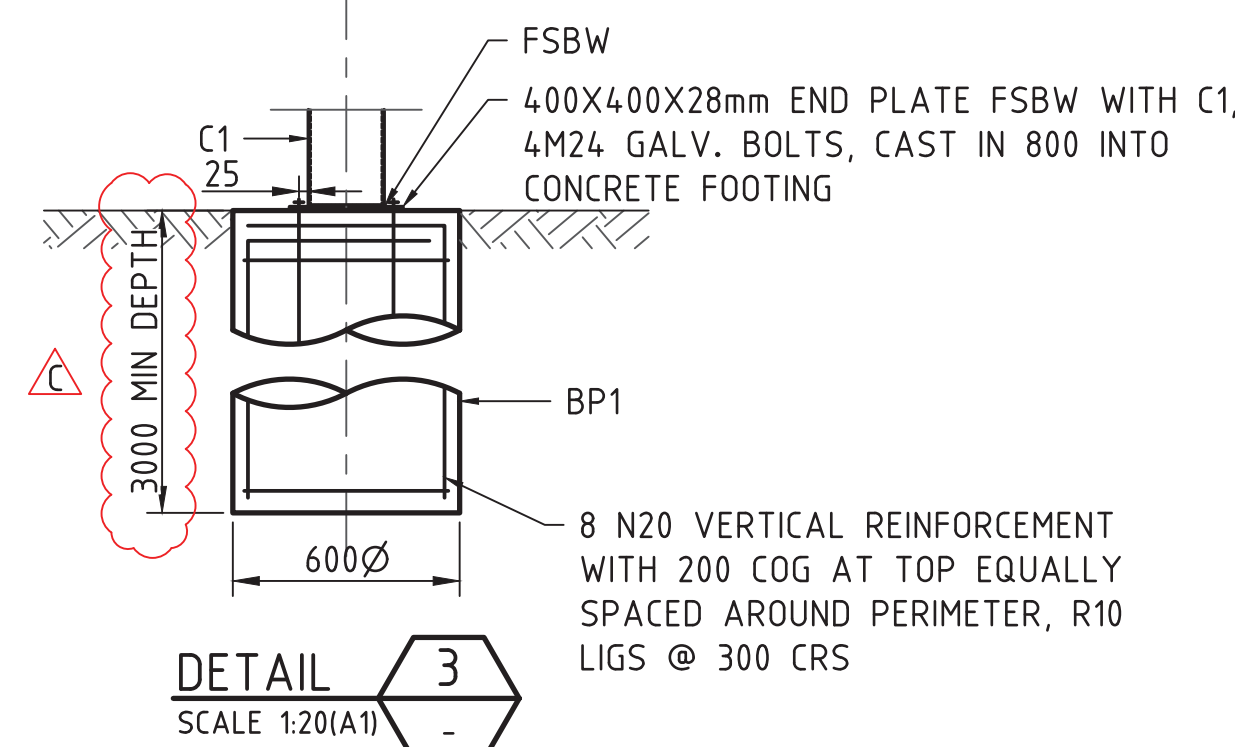
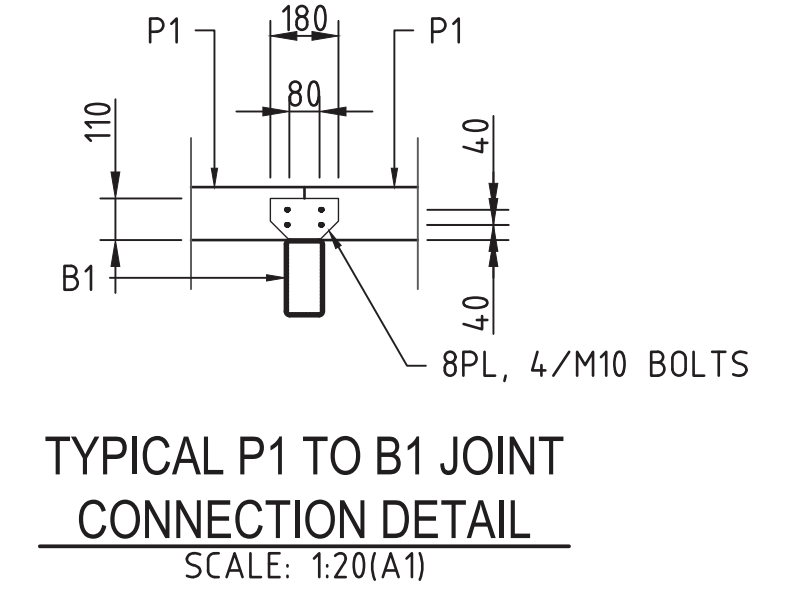
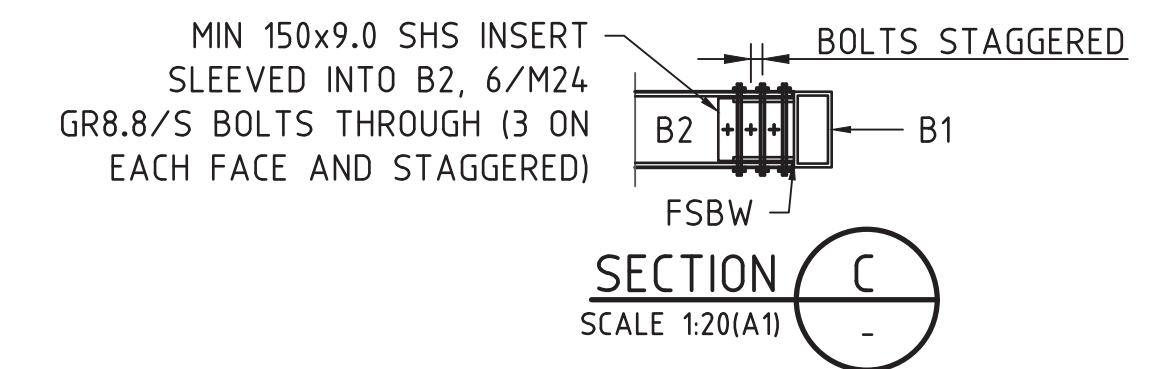
Dated: **15 February 2018**

ISSUED FOR CONSTRUCTION

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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C1 = 200X6.0 SHS
B1 = 200X100X5.0 RHS
B2 = 200X9.0 SHS
P1 = 150X50 HWD TIMBER PURLIN @ MAX 650 CRS
BP1 = BORED PIER FOOTING - REFER TO DETAIL 3

Dated: 15 February 2018



ISSUED FOR CONSTRUCTION

| | |
|--------------|----------------------------------|
| SHEET 1 OF 1 | |
| A1 | DRAWING NUMBER 0431718-S-0003 |
| | REVISION C |

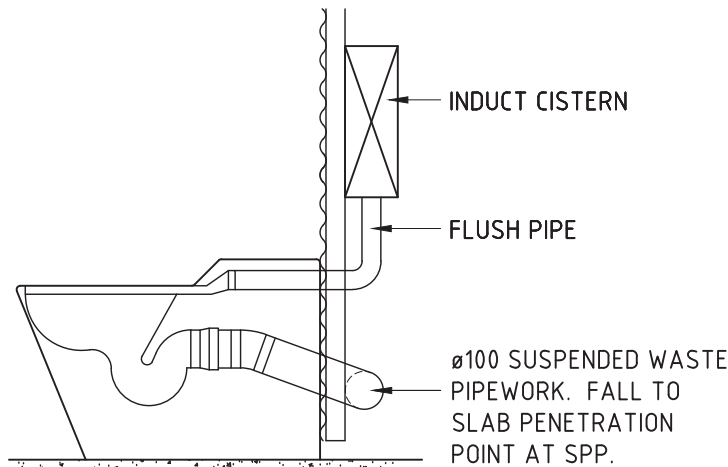
ALL DIMENSIONS IN MILLIMETRES - DO NOT SCALE

PLUMBING & DRAINAGE NOTES

1. THE WHOLE OF THE PLUMBING AND DRAINAGE WORKS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT NATIONAL CONSTRUCTION CODE (PLUMBING CODE OF AUSTRALIA) AND THE CURRENT PLUMBING AND DRAINAGE CODE A.S. 3500. THESE DRAWINGS ARE A GUIDE ONLY TO THE POSITION, LAYOUT AND SIZING OF THE SERVICE PIPES.
2. THE CONTRACTOR SHALL LOCATE ALL SERVICES AND CONFIRM CONNECTIONS CAN BE ACHIEVED PRIOR TO COMMENCEMENT OF WORK.
3. ALL UNDER SLAB & WALL CAVITY WATER SERVICES TO BE CLASS 'B' COPPER, BE PRE-LAGGED AND 55% OVERWRAPPED WITH 'DENSO' TAPE AND TO BE TYPE 'B' IN ACCORDANCE WITH A.S. 1432.
4. ALL EXTERNAL H.C.'s TO BE BRASS AND INSTALLED WITH A VACUUM BREAKER.
5. ANY HOSE COCKS INSTALLED ADJACENT TO URINALS TO BE FITTED WITH A SHROUD & BACKFLOW PREVENTION DEVICE.
6. ALL INTERNAL COLD WATER TO BE COPPER.
7. ALL UNDERSLAB PIPES TO BE ø100mm, GRADED AT 1:40 U.N.O.
8. ALL VENT PIPES SHALL TERMINATE ABOVE THE ROOF LEVEL IN ACCORDANCE WITH BY-LAW 111.
9. ALL INSPECTION OPENINGS AT SURFACE TO BE CAPPED AND COVERED WITH AN APPROVED REMOVABLE COVER.

GENERAL SANITARY NOTES

1. THE ACCURACY AND COMPLETENESS OF EXISTING SERVICE INFORMATION IS NOT GUARANTEED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL SERVICES PRIOR TO CONSTRUCTION AND ADVISE THE SUPERINTENDANT OF ANY DIFFERENCES FROM THE DRAWINGS.
2. WHERE A JUNCTION IS TO BE MADE TO EXISTING CONSTRUCTION, THE CONTRACTOR IS TO CONFIRM THE LOCATION AND LEVEL OF THIS CONSTRUCTION PRIOR TO COMMENCING WORK ON ANY CRITICAL SECTIONS. THE SUPERINTENDENT MAY VARY LEVELS AND GRADIENTS TO ACHIEVE A SATISFACTORY CONNECTION.



PAN CONNECTION DETAIL

SCALE 1:20

DRAINAGE PLAN No.
TITLE

(FREEHOLD / COMMUNITY TITLE)

ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No: D/5-2018

Dated: 15 February 2018

PROJECT DETAILS:
PROPERTY OWNER: ROCKHAMPTON REGIONAL COUNCIL
PROPERTY ADDRESS: 287-289 QUAY ST, ROCKHAMPTON, QLD, 4700
RP DESCRIPTION: L1 on R 26366

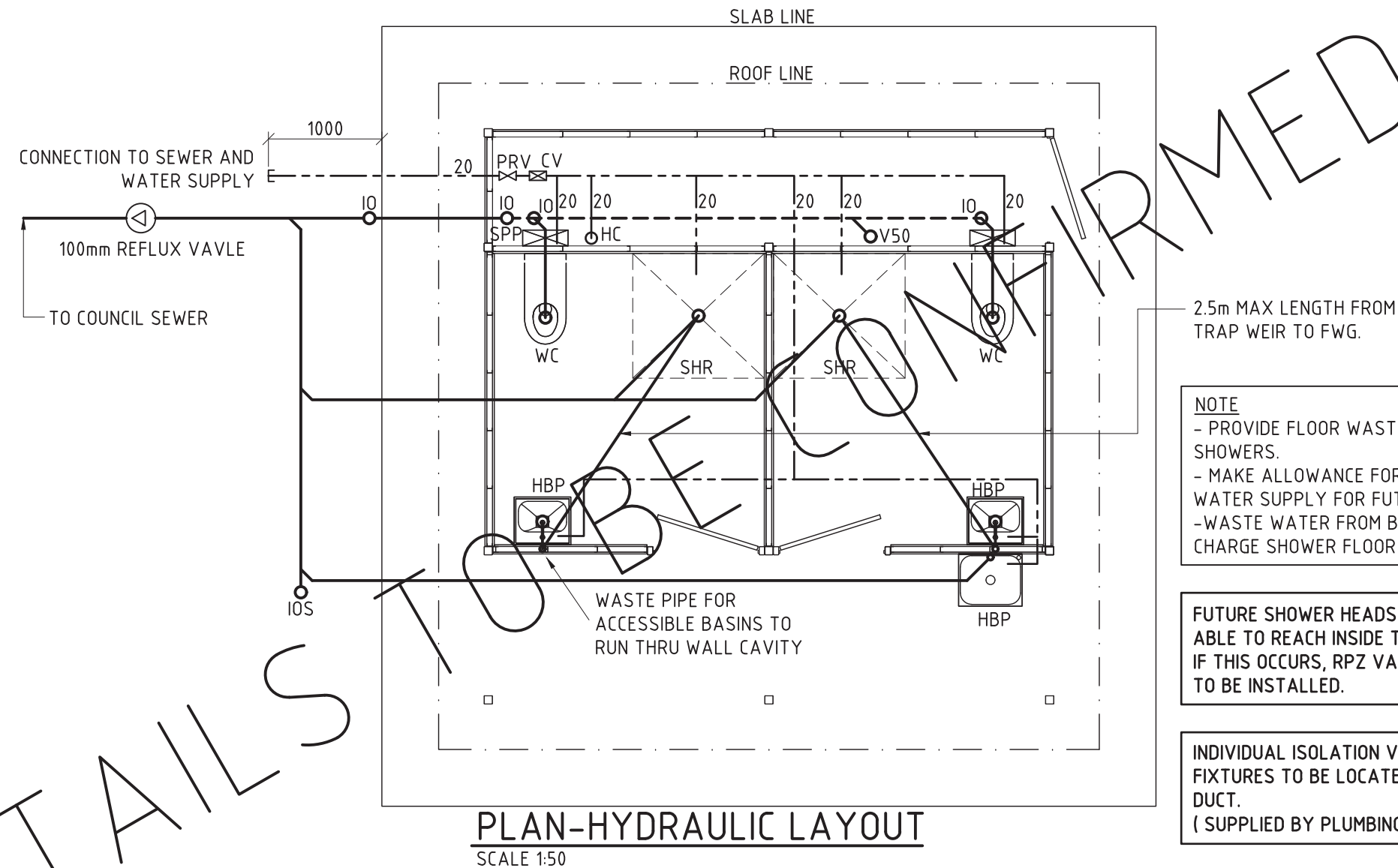
THIS DRAWING HAS BEEN PREPARED IN ACCORDANCE WITH AS/NZS 3500.2.1 & 2.2 2003.
LANDMARK INSTALLATIONS PTY. LTD. ABN 26 129 595 044 (B.S.A LICENSE No 1135451)

| REVISION | | DATE: | DRAWN BY. | <div>© LANDMARK PRODUCTS LIMITED</div> <div>THIS DOCUMENT IS AND SHALL REMAIN THE PROPERTY OF LANDMARK PRODUCTS LIMITED.</div> <div>UNAUTHORISED USE OF THIS DOCUMENT IN ANY FORM IS PROHIBITED.</div> | <div><div><div></div></div><div>Landmark</div><div>Enhancing Open Space Environments</div></div> <div>Landmark Products Limited. A.B.N. 99 112 000 843 55-57 Kabi Circuit, Deception Bay P.O. Box 603, Deception Bay Queensland 4508</div> <div>PH: 1300 768 230 FAX: 1300 768 260 www.landmarkpro.com.au landmark@landmarkpro.com.au</div> | CLIENT NAME | | PROJECT No. | PAGE |
|----------|----------------------------|----------|-----------|--|---|---|--|-------------|--------|
| 6 | - | - | - | | | ROCKHAMPTON REGIONAL COUNCIL | | 34345 | A3 |
| 5 | - | - | - | | | PROJECT | | DATE: | DRAWN |
| 4 | - | - | - | | | TOONOBA PARK, QUAY STREET, ROCKHAMPTON, QLD, 4700 | | 05/12/17 | JEO |
| 3 | - | - | - | | | MOD K9504 "CARETAKER" 2D (SKILLION) RESTROOM | | DRAWING No. | SCALE |
| 2 | - | - | - | | | | | 34345 | AS NTD |
| 1 | PROJECT DETAILS FILLED OUT | 18/12/17 | MAF | CHECKED BY: | DATE: | DRAWING TITLE | | SHEET No. | REV. |
| | | | | | | BA - HYDRAULIC LAYOUT | | 301 | 1 |

LEGEND

| | |
|----------|----------------------------------|
| COS | CLEANOUT TO SURFACE |
| CV | CHECK VALVE |
| HB | HAND BASIN |
| HBP | HAND BASIN WITH "P" TRAP |
| HC | HOSE COCK |
| IO | INSPECTION OPENING |
| IOS | INSPECTION OPENING TO SURFACE |
| ORG | OVERFLOW RELIEF GULLY |
| PRV | 500 KPa PRESSURE REDUCTION VALVE |
| SPP | SLAB PENETRATION POINT |
| V50 | VENT 50 |
| WC | TOILET |
| 100 uPVC | PROPOSED SEWER (IN GROUND) |
| 100 uPVC | PROPOSED SEWER (SUSPENDED) |
| 20 | PROPOSED WATER SUPPLY |

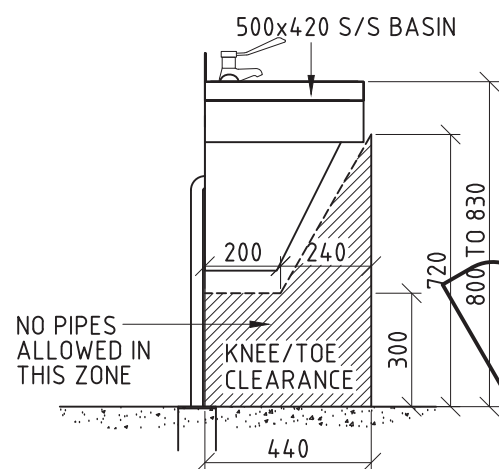
ALL DIMENSIONS IN MILLIMETRES - DO NOT SCALE

DRAINAGE PLAN No.**ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS**These plans are approved subject to the
current conditions of approval associated with**Development Permit No: D/5-2018****Dated: 15 February 2018****NOTE : ALL PLUMBING
INDICATED IS FOR GUIDANCE
PURPOSES ONLY****NOTE: NO JOINS PERMITTED IN
WATER SERVICE UNDER SLAB****NOTE**

- PROVIDE FLOOR WASTE FOR FUTURE SHOWERS.
- MAKE ALLOWANCE FOR HOT & COLD WATER SUPPLY FOR FUTURE SHOWERS.
- WASTE WATER FROM BASINS TO CHARGE SHOWER FLOOR WASTE

FUTURE SHOWER HEADS MUST NOT BE ABLE TO REACH INSIDE THE WC's. IF THIS OCCURS, RPZ VALVES WILL NEED TO BE INSTALLED.

INDIVIDUAL ISOLATION VALVES FOR ALL FIXTURES TO BE LOCATED IN SERVICE DUCT.
(SUPPLIED BY PLUMBING CONTRACTOR)

**PROJECT DETAILS:**

PROPERTY OWNER: ROCKHAMPTON REGIONAL COUNCIL
PROPERTY ADDRESS: 287-289 QUAY ST, ROCKHAMPTON, QLD, 4700
RP DESCRIPTION: L1 on R 26366

THIS DRAWING HAS BEEN PREPARED IN ACCORDANCE WITH AS/NZS 3500.2.1 & 2.2 2003.
LANDMARK INSTALLATIONS PTY. LTD. ABN 26 129 595 044 (B.S.A LICENSE No 1135451)

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| 6 | - | - | | | ROCKHAMPTON REGIONAL COUNCIL | 34345 | A3 |
| 5 | - | - | | | PROJECT | DATE: | DRAWN |
| 4 | - | - | | | TOONOBA PARK, QUAY STREET, ROCKHAMPTON, QLD, 4700 | 05/12/17 | JEO |
| 3 | - | - | | | MOD K9504 "CARETAKER" 2D (SKILLION) RESTROOM | DRAWING No. | SCALE |
| 2 | - | - | CHECKED BY: | DATE: | DRAWING TITLE | 34345 | AS NTD |
| 1 | 18/12/17 | MAF | | | BA - HYDRAULIC LAYOUT | SHEET No. | REV. |
| | | | | | | 302 | 1 |



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TOONOOPA PARK

AMENITIES BLOCK AND SHADE STRUCTURE

ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS

These plans are approved subject to the
current conditions of approval associated with

Development Permit No: D/5-2018

Dated: 15 February 2018



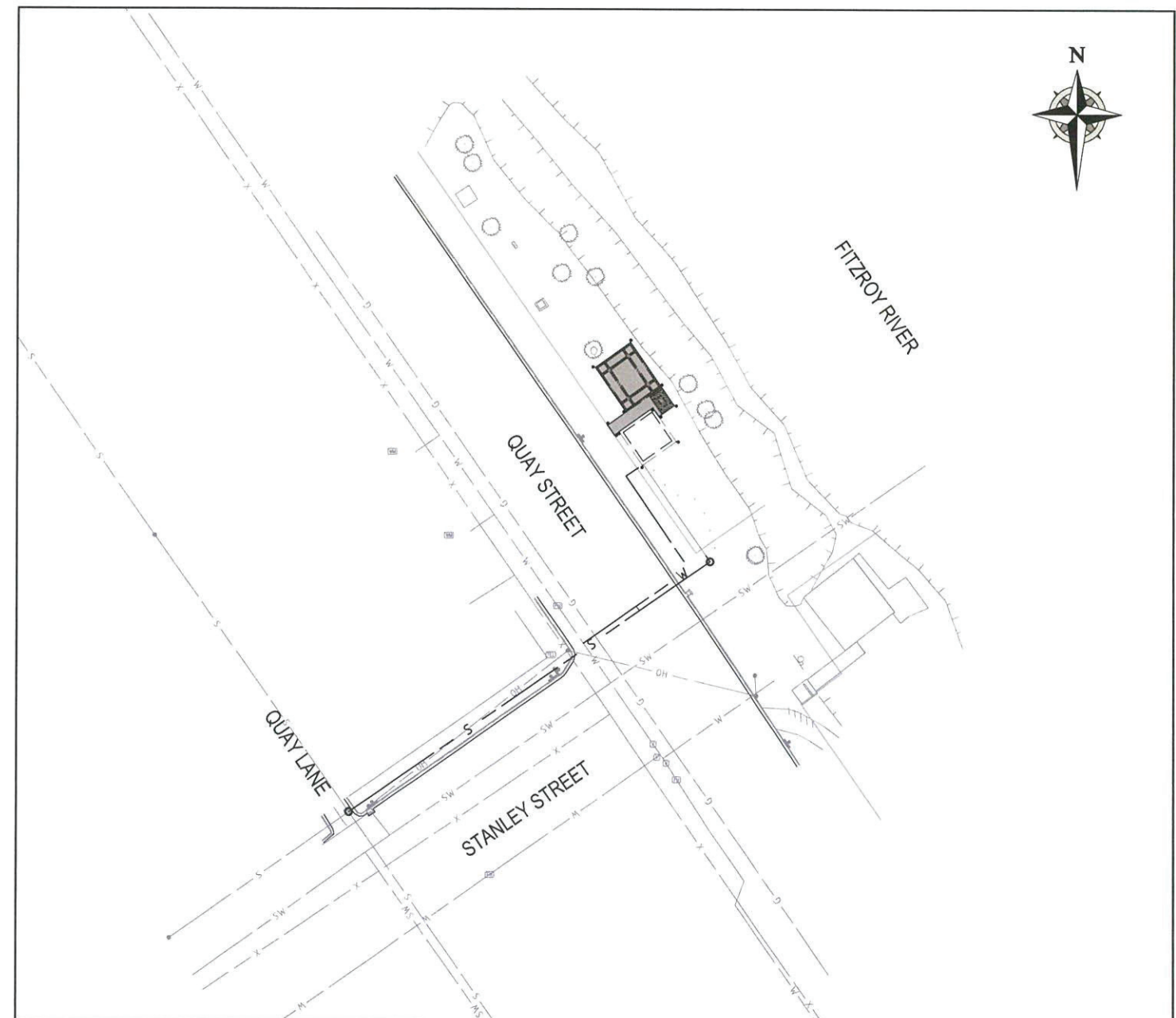
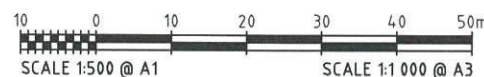
LOCALITY PLAN
NTS

DRAWING SCHEDULE

| DRAWING No. | DESCRIPTION | REVISION |
|--------------|---|----------|
| 0431718-0001 | TITLE SHEET - SHEET 1 OF 1 | A |
| 0431718-0002 | SEWERAGE LAYOUT & LONGITUDINAL SECTION - SHEET 1 OF 1 | A |

GENERAL NOTES

- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE ROCKHAMPTON REGIONAL COUNCIL STANDARD SPECIFICATIONS AND DRAWINGS UNLESS STATED OTHERWISE.
- ALL PLUMBING AND DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH CMDG STANDARDS, THE 'BUILDING ACT' (1975), AND THE 'PLUMBING AND DRAINAGE ACT' (2002).
- ALL WORKS ARE TO BE COMPLETED BY SUITABLY QUALIFIED TRADES PEOPLE.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL REQUIRED TESTING REQUIREMENTS SET OUT ON THESE PLANS.
- ALL MEASUREMENTS ARE PROVIDED IN METERS U.N.O.
- ALTHOUGH THE PRESENT AND/OR PROPOSED POSITIONS OF PUBLIC UTILITIES, FITTINGS, MANHOLES, POLES, ETC MAY BE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WITH THE RELEVANT AUTHORITIES BEFORE COMMENCEMENT OF ANY WORK. ANY COST ASSOCIATED WITH REPAIRING DAMAGE TO EXISTING SERVICES SHALL BE PAID FOR BY THE CONTRACTOR.
- A TELSTRA REPRESENTATIVE MUST BE PRESENT WHEN EXCAVATING NEAR TO TELSTRA CABLES.
- STOCKPILING OF REUSABLE MATERIAL SHALL BE AT A LOCATION APPROVED BY THE SUPERINTENDENT ON SITE, AND SHALL BE WATERED DOWN TO ENSURE THAT DUST IS KEPT TO A MINIMUM.
- TURF IS TO BE APPLIED TO ALL DISTURBED AREAS.
- IN ACCORDANCE WITH THE REQUIREMENTS OF THE WORKPLACE HEALTH AND SAFETY ACT, THE CONTRACTOR SHALL UNDERTAKE A SAFETY IN DESIGN (SID) RISK ASSESSMENT FOR THE DESIGN.



GENERAL LAYOUT PLAN
SCALE: 1:500(A1) 1:1000(A3)

ISSUED FOR CONSTRUCTION

| | | | | | | | | | | | |
|------------------------------|--|-------------------------|--|----------|--|----------------------|------------------------------|---------|----------------|------------------------------|--|
| SURVEYOR | | BY | | DATE | CLIENT | PREPARED BY | | 0431718 | CLIENT | ROCKHAMPTON REGIONAL COUNCIL | |
| ROCKHAMPTON REGIONAL COUNCIL | | REVIEWED | | 29.11.17 | NOTE: THIS DRAWING IS SOLELY THE PROPERTY OF MCMURTRIE CONSULTING ENGINEERS PTY LTD. THE INFORMATION CONTAINED IS NOT TO BE DISCLOSED, REPRODUCED OR COPIED IN WHOLE OR PART WITHOUT WRITTEN APPROVAL FROM MCMURTRIE CONSULTING ENGINEERS PTY LTD. | mcmurtrie | | | PROJECT | TOONOOPA PARK AMENITIES | |
| ADDRESS: | | RPEQ ENG | | 29.11.17 | | CONSULTING ENGINEERS | | | TITLE | TOONOOPA PARK AMENITIES | |
| 232 BOLSOVER STREET | | RPEQ No: | | 15243 | | Address: | | | TITLE SHEET | | |
| ROCKHAMPTON QLD 4700 | | SCALE: NTS | | | Postal: | | 63 Charles Street | Phone: | (07) 4921 1780 | | |
| CO-ORDINATE DATUM | | DES | | DES CHK | E-mail: | | NORTH ROCKHAMPTON QLD 4701 | Mobile: | 0407 631 066 | | |
| MGA94 ZONE 56 | | DFT | | DFT CHK | McMurtrie & Associates Pty Ltd | | PO BOX 2149, WANDAL QLD 4700 | Fax: | (07) 4921 1790 | | |
| HEIGHT DATUM | | REV | | DATE | DRAWING NUMBER | | | | A1 | | |
| AHD | | REFERENCE DRAWING TITLE | | | 0431718-0001 | | | | REVISION | | |
| | | | | | | | | | C | | |

**ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS**

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Development Permit No: D/5-2018

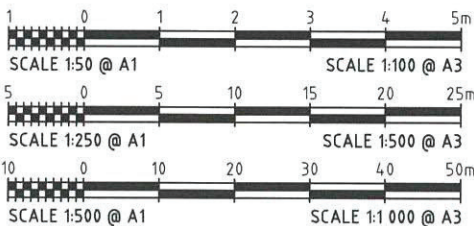
Dated: 15 February 2018

NOTE

THE 1% AEP FR PWSE FLOOD
HEIGHT IN THE APPROXIMATE
LOCATION OF THE PROPOSED
SEWERAGE MANHOLE IS 8.10m AHD.
THE MANHOLE LID IS 7.446m AHD.
THE PROPOSED PENSTOCK VALVE
SHOULD BE MAINTAINED REGULARLY
AND IS TO BE SHUT OFF BY SERVICE
AUTHORITY PRIOR TO FLOOD WATER
REACHING 7.446m AHD

PIPE SIZE (mm) 150mm
PIPE CLASS PVC
PIPE GRADE (%) 1.00%
PIPE SLOPE (1 in X) 100.00

| | |
|--------------------------|-----------------------------|
| DATUM RL | 0.0 |
| DEPTH TO INVERT | 4.697 |
| INVERT LEVEL OF SEWER | 5.719 |
| DESIGN SURFACE LEVEL | 6.887 |
| SETOUT COORDINATES | E246273.649 N7411895.073 |
| CHAINAGE LINE | 73.142 |



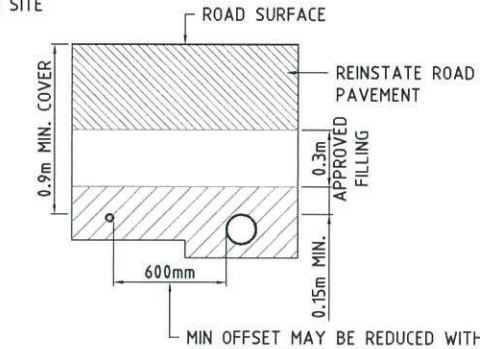
SEWER LONGITUDINAL SECTION
HORIZ 1:50(A1) 1:1000(A3)
VERT 1:50(A1) 1:100(A3)

WATER RETICULATION NOTES

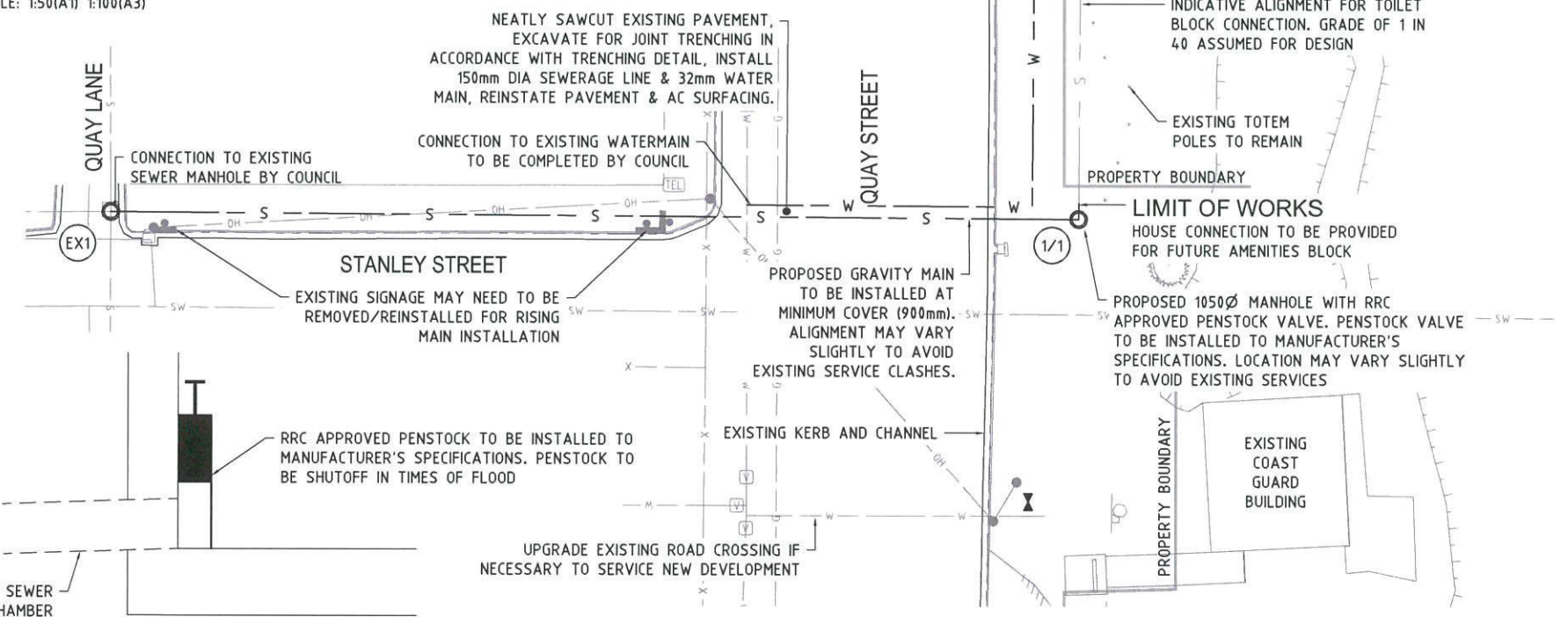
- ALL MAINS ARE TO BE MPVC OR OPVC. ALL MPVC AND OPVC PIPES SHALL BE MATERIAL CLASS 400 AND SHALL HAVE A PRESSURE RATING OF CLASS 16.
- MINIMUM COVER TO UPVC AND DI MAINS IS 600MM, 900MM UNDER ROADS.
- HYDRANTS (80M MAX. CENTRES) AND VALVE INSTALLATION TO BE IN ACCORDANCE WITH CMDG STD. DWG. NO. SD-W-060.
- HYDRANT AND VALVE MARKERS TO COMPLY WITH CAPRICORN MUNICIPAL DESIGN GUIDELINES.
- FITTINGS TO JOIN INTO EXISTING SERVICE TO BE SUPPLIED BY COUNCIL. JOINING TO BE PERFORMED BY COUNCIL.
- RETICULATION MAINS TO BE LAID 2.5M FROM THE PROPERTY BOUNDARY. HOUSE CONNECTION POINTS AT ALTERNATIVE BOUNDARIES TO THE ELECTRICITY SUPPLY UNLESS NOTED OTHERWISE.
- FOR PIPES TO BE LAID ON CURVES, THE PERFERED MAX. PIPE JOINT DEFLECTION PER JOINT SHALL BE 1.0 DEGREE.
- HYDRANTS ARE TO BE INSTALLED AT THE END OF ALL DEAD-END LINES.
- WATER CONDUIT SHALL BE ALIGNED FROM THE COMMON BOUNDARY OF ALLOTMENTS SERVED.
- UPVC MAINS TO BE FLUSHED AND TESTED IN ACCORDANCE WITH THE SPECIFICATION.
- ALL VALVES AND REDUCERS AT WATER MAIN JUNCTIONS SHALL BE FLANGED FLANGE JOINTS UNLESS OTHERWISE NOTED.
- ALL VALVES AND HYDRANTS TO BE COATED WITH THERMOSETTING EPOXY POWDER TO AS 3952 AND AS 2638. ALL BOLTS TO BE STAINLESS STEEL TO AS 2837/316.
- ALL BENDS AND TEES SHALL BE DUCTILE IRON.
- FOR WATER SERVICE CONNECTIONS REFER CMDG STD. DWG. NO. SD-W-091. WATER SERVICES TO BE 25 NB OR 32 DN OD POLY.
- MARKER TAPE AND TRACER WIRE TO BE INSTALLED ABOVE ALL WATER RETICULATION MAINS.
- ELECTRICAL LAYOUT SHOWN ARE INDICATIVE ONLY AND ARE DONE BY OTHERS.

LEGEND

- S — PROPOSED SEWER ALIGNMENT
- W — PROPOSED WATER ALIGNMENT
- X — EXISTING WATER RETICULATION ALIGNMENT
- OH — EXISTING ABANDONED WATER RETICULATION ALIGNMENT
- SW — EXISTING OVERHEAD ELECTRICAL ALIGNMENT
- S — EXISTING STORMWATER ALIGNMENT (SIZE UNKNOWN)
- S — EXISTING SEWERAGE ALIGNMENT
- — EXISTING SEWERAGE MANHOLE
- — EXISTING FIRE HYDRANT
- — EXISTING SLUICE VALVE
- — EXISTING TELECOMMUNICATIONS PIT



TYPICAL JOINT TRENCH SECTION
SCALE: 1:50(A1) 1:100(A3)



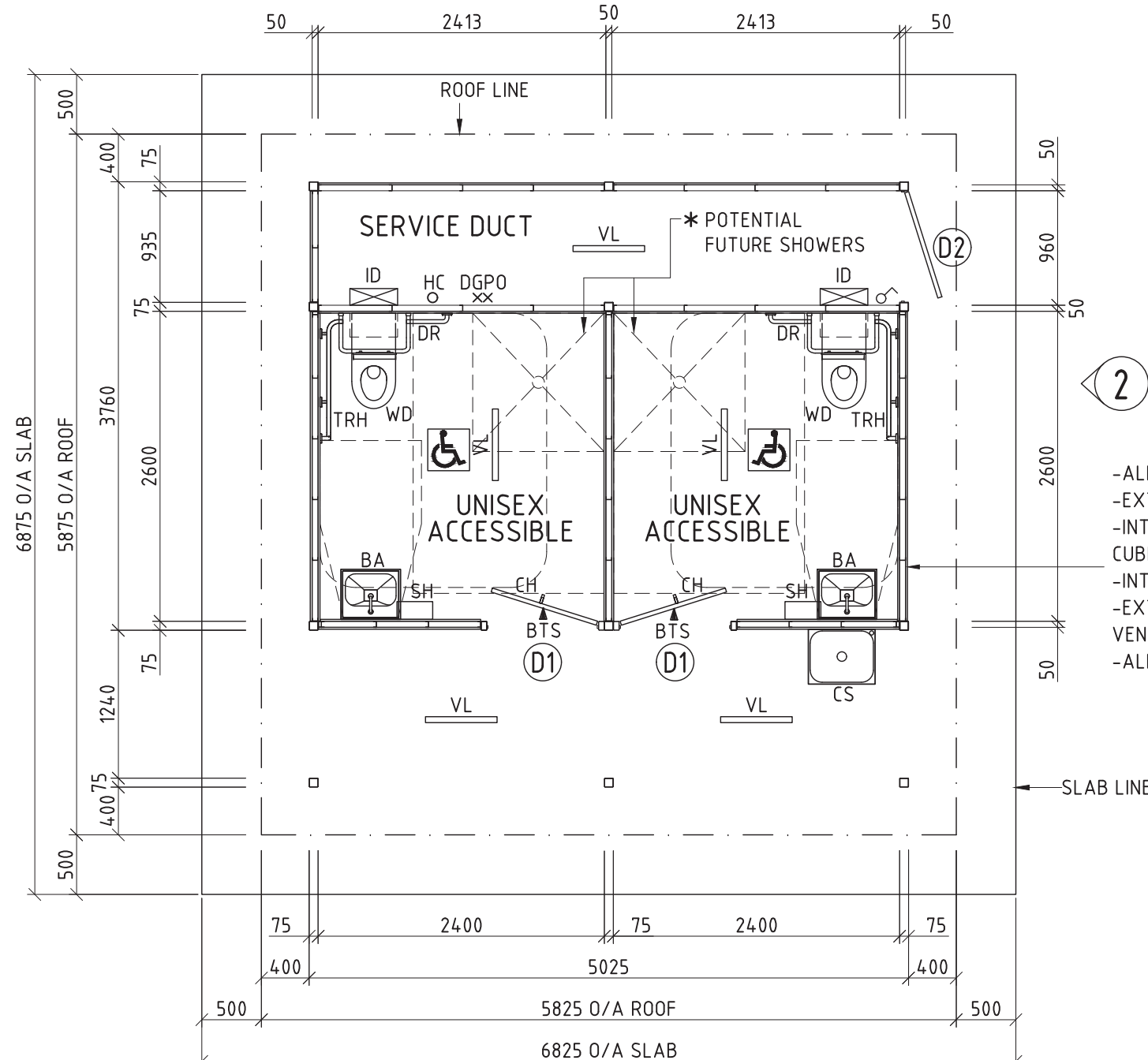
PENSTOCK LOCATION DETAIL
NTS

SEWERAGE LAYOUT PLAN
SCALE: 1:250(A1) 1:500(A3)

ISSUED FOR CONSTRUCTION

| | | | | | | | |
|---|--|-------------------------|--|------------|--|---|--|
| SURVEYOR | | BY | | DATE | | CLIENT | |
| ROCKHAMPTON REGIONAL COUNCIL | | REVIEWED | | 29.11.17 | | 0431718 | |
| ADDRESS: 232 BOLSOVER STREET ROCKHAMPTON QLD 4700 | | RPEQ ENG | | 29.11.17 | | CLIENT ROCKHAMPTON REGIONAL COUNCIL | |
| CO-ORDINATE DATUM MGA94 ZONE 56 | | RPEQ NO: | | SCALE: NTS | | PROJECT TOONOBA PARK AMENITIES | |
| HEIGHT DATUM AHD | | DES | | DES CHK | | TITLE TOONOBA PARK AMENITIES SEWERAGE LAYOUT & LONGITUDINAL SECTION | |
| DRAWING No. | | REFERENCE DRAWING TITLE | | REV | | DRAWING NUMBER | |
| 1 | | 2 | | 3 | | A1 0431718-0002 | |
| 2 | | 3 | | 4 | | REVISION | |
| 3 | | 4 | | 5 | | C | |

ALL DIMENSIONS IN MILLIMETRES - DO NOT SCALE

**ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS**These plans are approved subject to the
current conditions of approval associated with**Development Permit No: D/5-2018****Dated: 15 February 2018****DOOR LEGEND**D1-2045x925 COLORBOND CLAD **SOLIDCORE** DOOR-STEEL FRAME
D2-2045x925 COLORBOND CLAD **SOLIDCORE** DOOR-STEEL FRAME,
cw 3 DEAD LOCKS, TOP, MIDDLE & BOTTOM OF DOOR.**LEGEND (Landmark supply)**WD = STAINLESS STEEL DISABLED COMPLIANT PAN
ID = INDUCT PLASTIC CISTERN
BA = STODDART WB.K02.300 STAINLESS STEEL BASIN, KNEE
OPERATED, SHROUDED PLUMBING, 300mm SPLASHBACK cw TIMED
FLOW COLD WATER SECURITY BUBBLER.
CS = STODDART CS.03.SECURE.450 STAINLESS STEEL CLEANERS
SINK (NO SINK GRATE REQ'D), SHROUDED PLUMBING, 450mm
SPLASHBACK, TIMED FLOW BUTTON TAP.
BTS = BRAILLE TACTILE SIGNAGE
DR = DISABLED COMPLIANT RAILS cw BACKREST
TRH = TOILET ROLL HOLDER
HC = VANDAL PROOF HOSE COCK (NOTE: $\frac{3}{4}$ INCH REQ'D)
VL = THORN GLADIATOR LED VANDAL LIGHTS**LEGEND (Rockhampton RC supply)**SH = STAINLESS STEEL SHELF
CH = COAT HOOK
DGPO = DOUBLE GENERAL POWER OUTLET
NOTE: FLOOR FINISH (BY RRC) IN CUBICLES & SERVICE DUCT TO
BE SEAMLESS EPOXY FINISH.**PLAN**
SCALE 1:50

2

- ALL WALLS TO 2100 HIGH UNLESS NOTED.
- EXTERNAL WALL TO SERVICE DUCT TO 2190 HIGH.
- INTERNAL WALL BETWEEN SERVICE DUCT AND CUBICLES TO 2360 HIGH.
- INTERNAL WALL BETWEEN CUBICLES TO 2360 HIGH.
- EXTERNAL WALL TO CUBICLES TO HAVE ALUMINIUM VENTILATION SCREEN OVER.
- ALL WALLS TO HAVE 50 GAP UNDER.

*POTENTIAL FUTURE SHOWERS TO HAVE ALLOWANCE
MADE FOR PLUMBING SUPPLY (WASTE AND H&C WATER),
WALL NOGGING (FOR FIXTURES & SEAT), SLAB FALLS
ETC.

CLIENTS DESIGN APPROVAL

APPROVED

DATE:

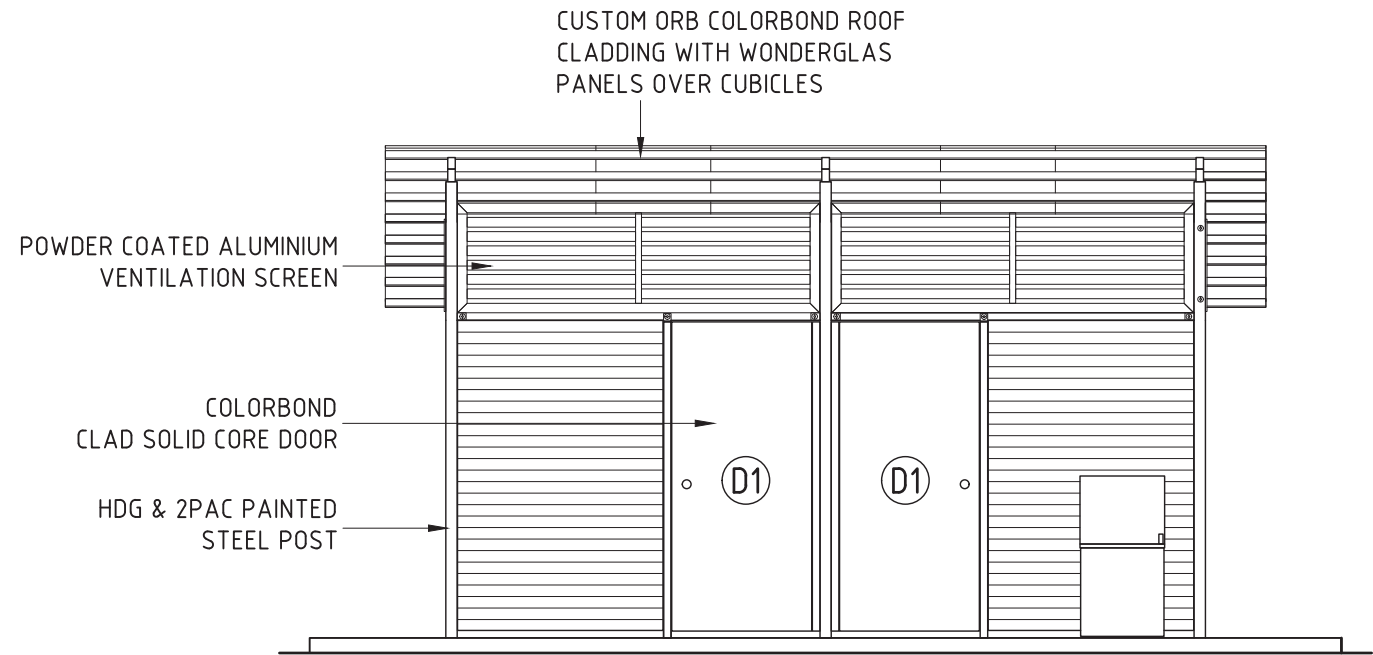
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|----------|-----------------------------------|-----------|--|-------|---|-------------|-------|
| 6 | - | - | | | ROCKHAMPTON REGIONAL COUNCIL | 34345 | A3 |
| 5 | - | - | | | PROJECT | DATE: | DRAWN |
| 4 | - | - | | | TOONOBA PARK, QUAY STREET, ROCKHAMPTON, QLD, 4700 | 05/12/17 | JEO |
| 3 | - | - | | | MOD K9504 "CARETAKER" 2D (SKILLION) RESTROOM | DRAWING No. | SCALE |
| 2 | - | - | | | DRAWING TITLE | 34345 | NOTED |
| 1 | AMENDMENTS AS PER CLIENTS MARK UP | 18/12/17 | CHECKED BY: | DATE: | BA - PLAN | SHEET No. | REV. |
| | | | | | | 101 | 1 |



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ALL DIMENSIONS IN MILLIMETRES - DO NOT SCALE



ELEVATION 1
SCALE 1:50

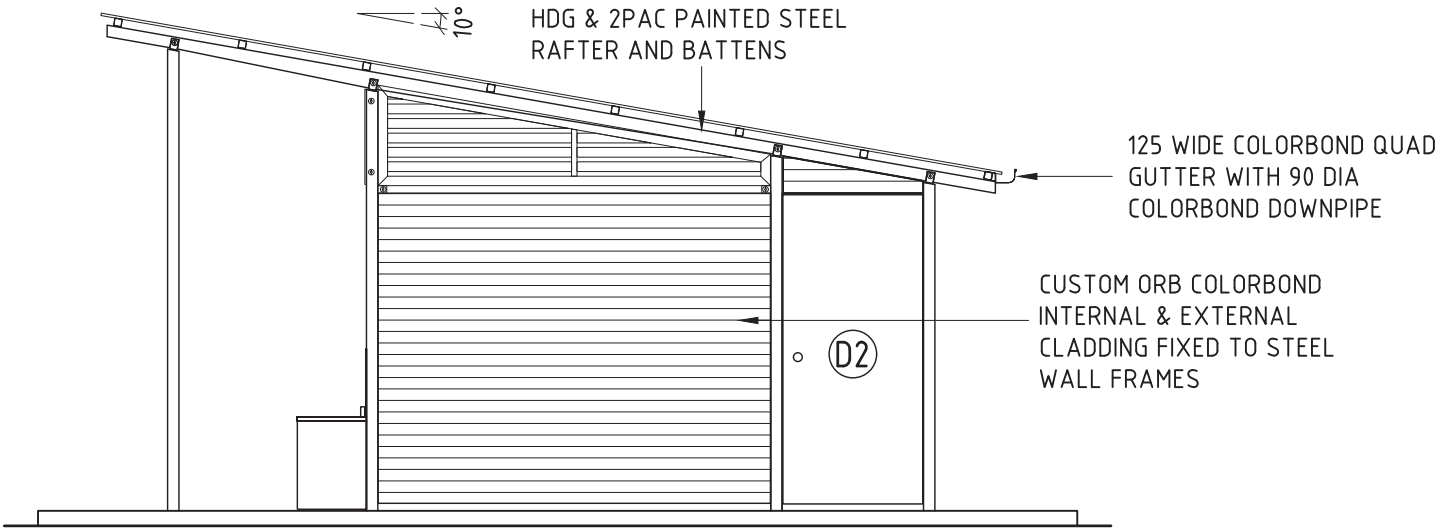
**ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS**

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Dated: 15 February 2018

- GENERAL NOTES:**
1. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVER STRESSED.
 2. PRIOR TO COMMENCEMENT OF WORKS THE BUILDER SHALL SATISFY THEMSELVES OF THE CORRECT LOCATIONS OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS.
 3. LOCATING OF THE STRUCTURE, INCLUDING CO-ORDINATES IF APPLICABLE, IS THE RESPONSIBILITY OF THE CLIENT AND/OR THE CLIENT'S SITE REPRESENTATIVE.
 4. STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE TO THE FOLLOWING AUSTRALIAN STANDARDS:
 - AS1170.1, AS1170.2, AS1720.1, AS3600 AND AS4100, AS1664.
 5. STRUCTURE IS SUITABLE FOR C2 AREAS AND HAS BEEN DESIGNED WITH AN AVERAGE RECURRENCE INTERVAL OF 200 YEARS. STRUCTURE IS ALSO DESIGNED TO TAKE AN AEP 1% (8.096 AHD) WITH A VELOCITY OF 0.503m/s, BASED ON THE SITE LEVEL GROUND AVERAGE OF 7.5 AHD.
 6. SITE COVERAGE IS 34.22m² (ROOF AREA).
 7. THE FOOTING HAS BEEN DESIGNED ASSUMING:
 - SITE CLASS P (DUE TO FILL)
 - ALLOWABLE SOIL BEARING CAPACITY OF 100kPa
 - SOIL ADHESION OF 10kPa(TO BE VERIFIED ON SITE).
 8. FOR SLABS ON GROUND, ALL TOPSOIL AND UPPER STRATA CONTAINING SOFT OR ORGANIC MATTER ARE TO BE REMOVED AND REPLACED WITH SELECT COMPACTED FILL.
 9. ALL FILL TO BE CLEAN, PLACED IN LAYERS NOT EXCEEDING 200mm AND COMPACTED TO 95% STANDARD COMPACTION.
 10. EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CRITERIA AND PROCEDURES SET OUT IN AS3798 *GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS*.



ELEVATION 2
SCALE 1:50

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|----------|--|---|-------|-----------|---|------------------------------|--|-----------------|-------------|-------|
| 6 | - | - | - | - | | ROCKHAMPTON REGIONAL COUNCIL | TOONOOPA PARK, QUAY STREET, ROCKHAMPTON, QLD, 4700 MOD K9504 "CARETAKER" 2D (SKILLION) RESTROOM | BA - ELEVATIONS | 34345 | A3 |
| 5 | - | - | - | - | | | | | DATE: | DRAWN |
| 4 | - | - | - | - | | | | | 05/12/17 | JEO |
| 3 | - | - | - | - | | | | | DRAWING No. | SCALE |
| 2 | - | - | - | - | | | | | 34345 | NOTED |
| 1 | SITE CLASSIFICATION AMENDED DUE TO SOIL REPORT | | | 18/12/17 | MAF | | | | SHEET No. | REV. |
| | | | | | | | | | 102 | 1 |



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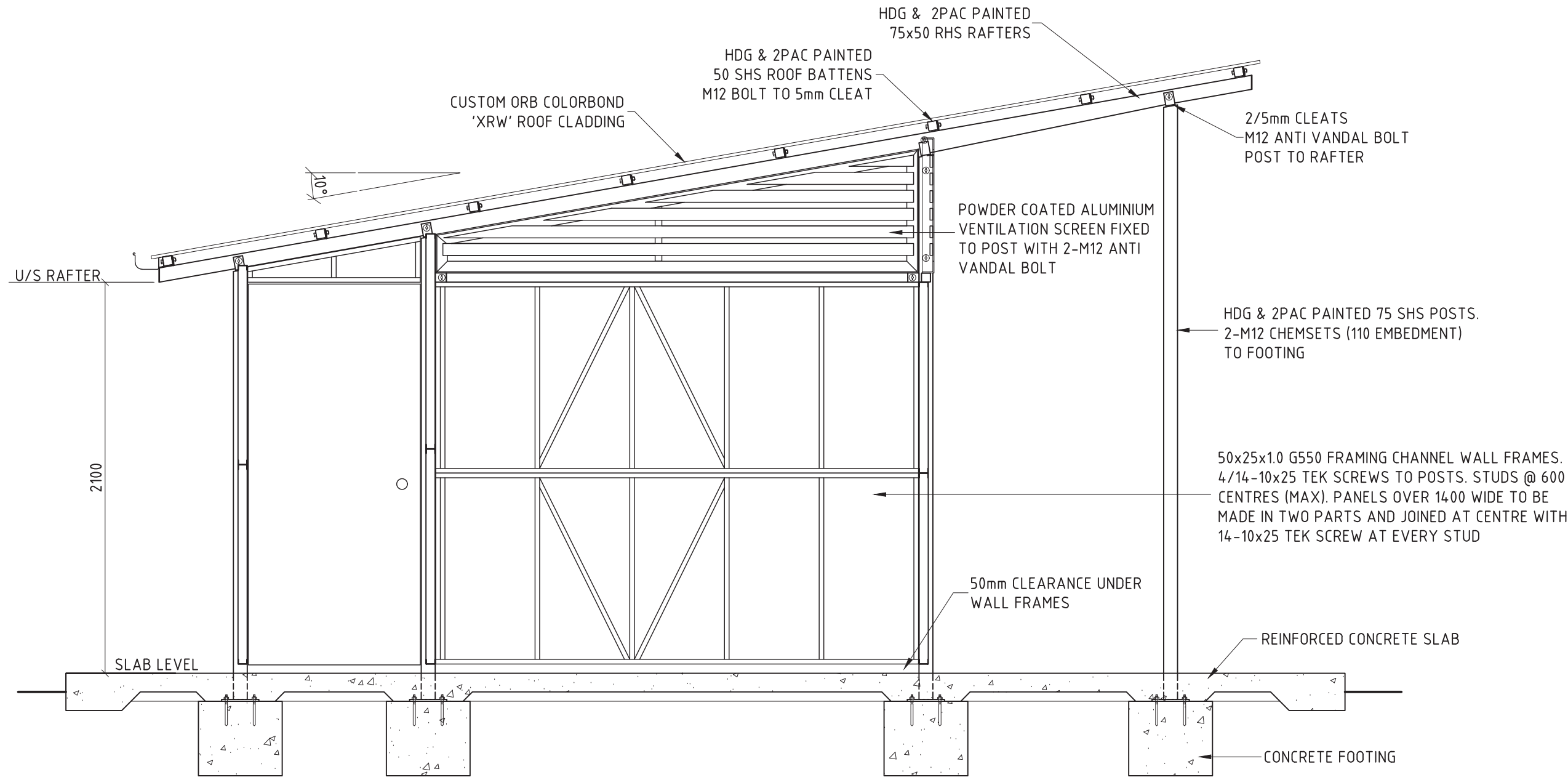
ALL DIMENSIONS IN MILLIMETRES - DO NOT SCALE

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TYPICAL SECTION
SCALE 1:25

CLIENTS DESIGN APPROVAL

APPROVED DATE:

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|----------|--|-------|-----------|---|--|--|--|-------------|-------|
| 6 | | | | | | ROCKHAMPTON REGIONAL COUNCIL | | 34345 | A3 |
| 5 | | | | | | PROJECT | | DATE: | DRAWN |
| 4 | | | | | | TOONOOPA PARK, QUAY STREET, ROCKHAMPTON, QLD, 4700 | | 05/12/17 | JEO |
| 3 | | | | | | MOD K9504 "CARETAKER" 2D (SKILLION) RESTROOM | | DRAWING No. | SCALE |
| 2 | | | | | | DRAWING TITLE | | 34345 | NOTED |
| 1 | | | | CHECKED BY: | DATE: | BA - SECTION | | SHEET No. | REV. |
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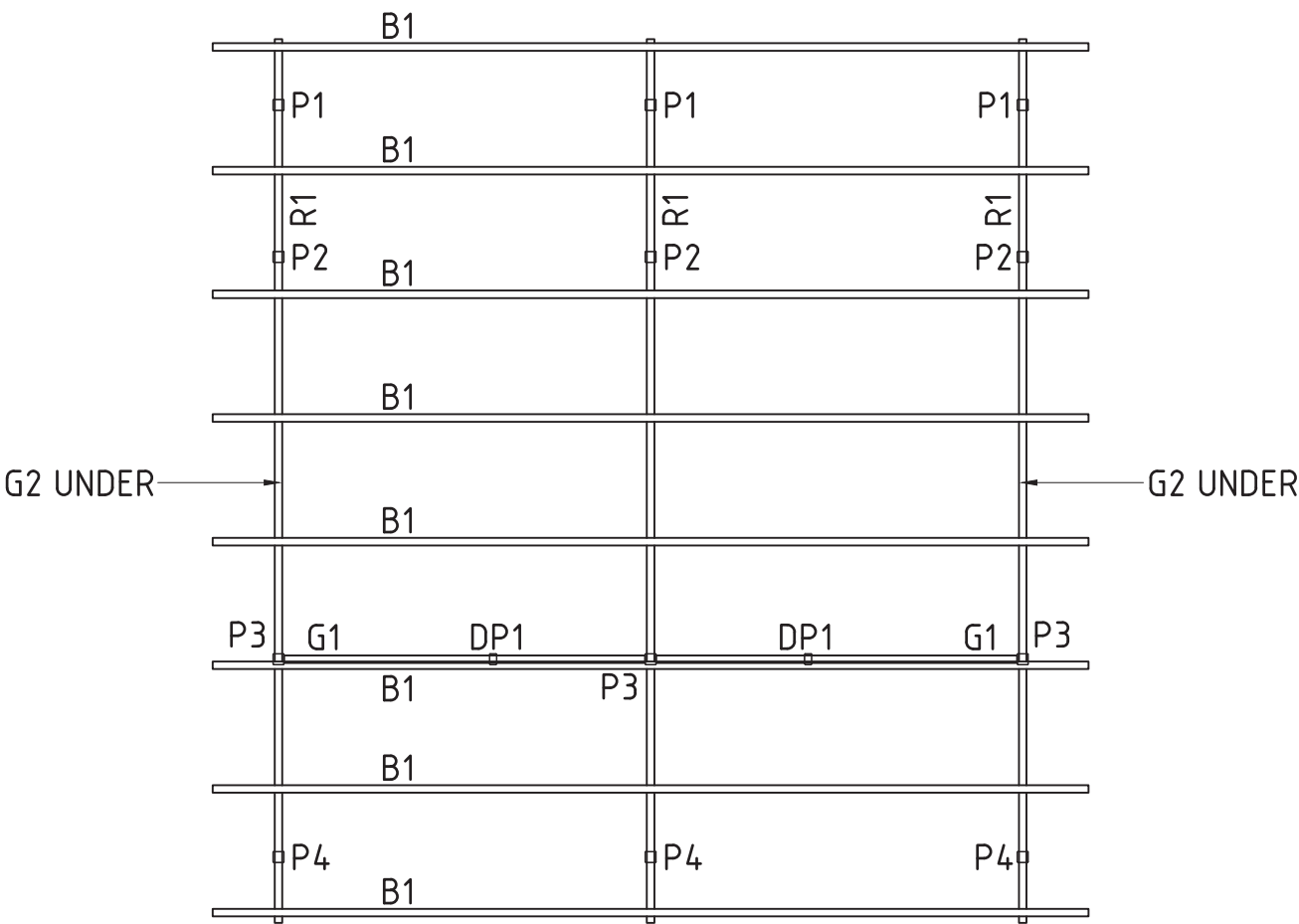
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FRAMING LAYOUT
SCALE 1:50

STRUCTURAL NOTES:

- S1. UNLESS NOTED OTHERWISE, ALL TIMBER IS SPECIFIED AS FOLLOWS:-
ALL PINE TIMBER TO BE **LOSP TREATED MGP12**.
ALL HARDWOOD TIMBER TO BE **ACQ TREATED F17 HARDWOOD**.
ALL MACHINED / CUT SURFACES TO BE SUITABLY RETREATED
WITH A *LANDMARK PRODUCTS* APPROVED COMPOUND.
- S2. UNLESS NOTED OTHERWISE, ALL STEEL TO BE:
- PLATES: GRADE 250, HOT DIP GALVANISED
- SHS/RHS/CHS: GRADE 350, HOT DIP GALVANISED
- HOT ROLLED SECTIONS: GRADE 300, HOT DIP GALVANISED
- FIXINGS: **STAINLESS STEEL** EXCLUDING CL4 CLADDING SCREWS
- S3. UNLESS NOTED OTHERWISE, ALL WELDS TO BE
5mm CONTINUOUS FILLET, CATEGORY GP,
FROM E48xx ELECTRODES OR W50x WIRE.
- S4. ALL STEEL AND TIMBER TO BE FABRICATED AND ERECTED
WITH GOOD BUILDING PRACTICE AND IN ACCORDANCE
WITH **AS4100, AS1554, AS1720 AND AS1684.1**.

FRAMING LEGEND:

- P1-P4:** 75x3 SHS POST, FIXED TO FOOTING WITH 10 THK BASEPLATE
C/W 2-M12 CHEMSET (110 EMBEDMENT)
- DP1:** 75x3 SHS DOOR POST, FIXED TO FOOTING WITH 10 THK BASEPLATE
C/W 2-M12 CHEMSET (110 EMBEDMENT).
- R1:** 75x50x3 RHS RAFTER FIXED TO POST WITH 2-50x5 PLATES
C/W 1-M12 ANTI VANDAL BOLT.
- B1:** 50x3 SHS ROOF BATTEN FIXED TO POST WITH 1-50x5 PLATE
C/W 1-M12 BOLT.
- G1-G2:** 50x2 SHS GIRT FIXED TO POST WITH 2-50x5 PLATE C/W 1-M12
ANTI VANDAL BOLT. FIXED TO DOOR POST WITH 2-50x5 PLATES C/W
1-M12 ANTI VANDAL BOLT.

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| 6 | | | | | | ROCKHAMPTON REGIONAL COUNCIL | | 34345 | A3 |
| 5 | | | | | | PROJECT | | DATE: | DRAWN |
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| 2 | | | | | | DRAWING TITLE | | 34345 | NTS |
| 1 | | | | CHECKED BY: | DATE: | BA - FRAMING PLAN | | SHEET No. | REV. |
| | | | | | | | | 201 | 0 |

CONCRETE NOTES:

1. UNLESS NOTED OTHERWISE, ALL FOOTINGS TO BE FOUNDED 200mm INTO NATURAL GROUND OR CERTIFIED FILL.
2. UNLESS NOTED OTHERWISE, CONCRETE TO BE 32MPa, 40mm COVER.
3. CONCRETE COVER TO BE MAINTAINED BY THE USE OF APPROVED CHAIRS AND/OR CONCRETE BLOCKS SPREAD AT APPROXIMATELY 600mm CROSS CENTRES.
4. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
5. NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
6. ALL CONCRETE SURFACES ARE TO BE CURED BY AN APPROVED METHOD FOR SEVEN DAYS IMMEDIATELY AFTER CONCRETE IS PLACED.
7. ALL CONCRETE TO BE MECHANICALLY VIBRATED DURING PLACEMENT.
8. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT RELATIVE CODES IN PARTICULAR AS3600 CONCRETE STRUCTURES.
9. REINFORCEMENT LAPS TO BE AS FOLLOWS:

- FABRIC: 2 CROSS WIRES + 25mm

- TRENCH MESH: 450mm

- N12 BAR: 500mm

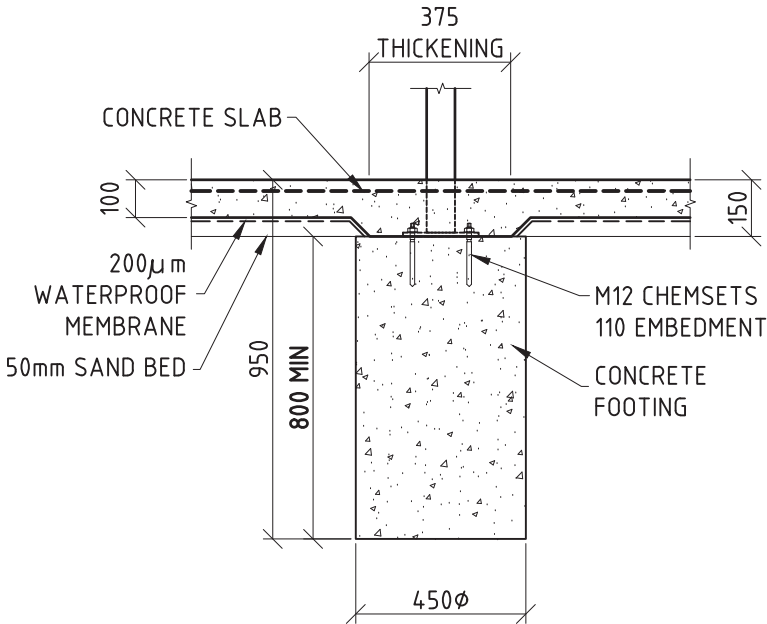
- N16 BAR: 600mm

- N20 BAR: 800mm

- N24 BAR: 1000mm
10. SLAB DIMENSIONS SHOWN ARE TO 500mm PAST ROOF LINE OF BUILDING. CLIENT TO DETERMINE FINAL DIMENSIONS.

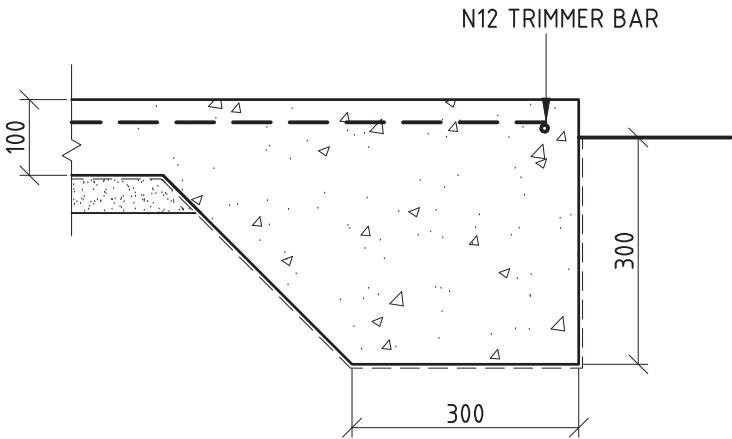
ALL DIMENSIONS IN MILLIMETRES - DO NOT SCALE

SOIL REPORT:
BUTLER PARTNERS
PROJECT No. R17-204A



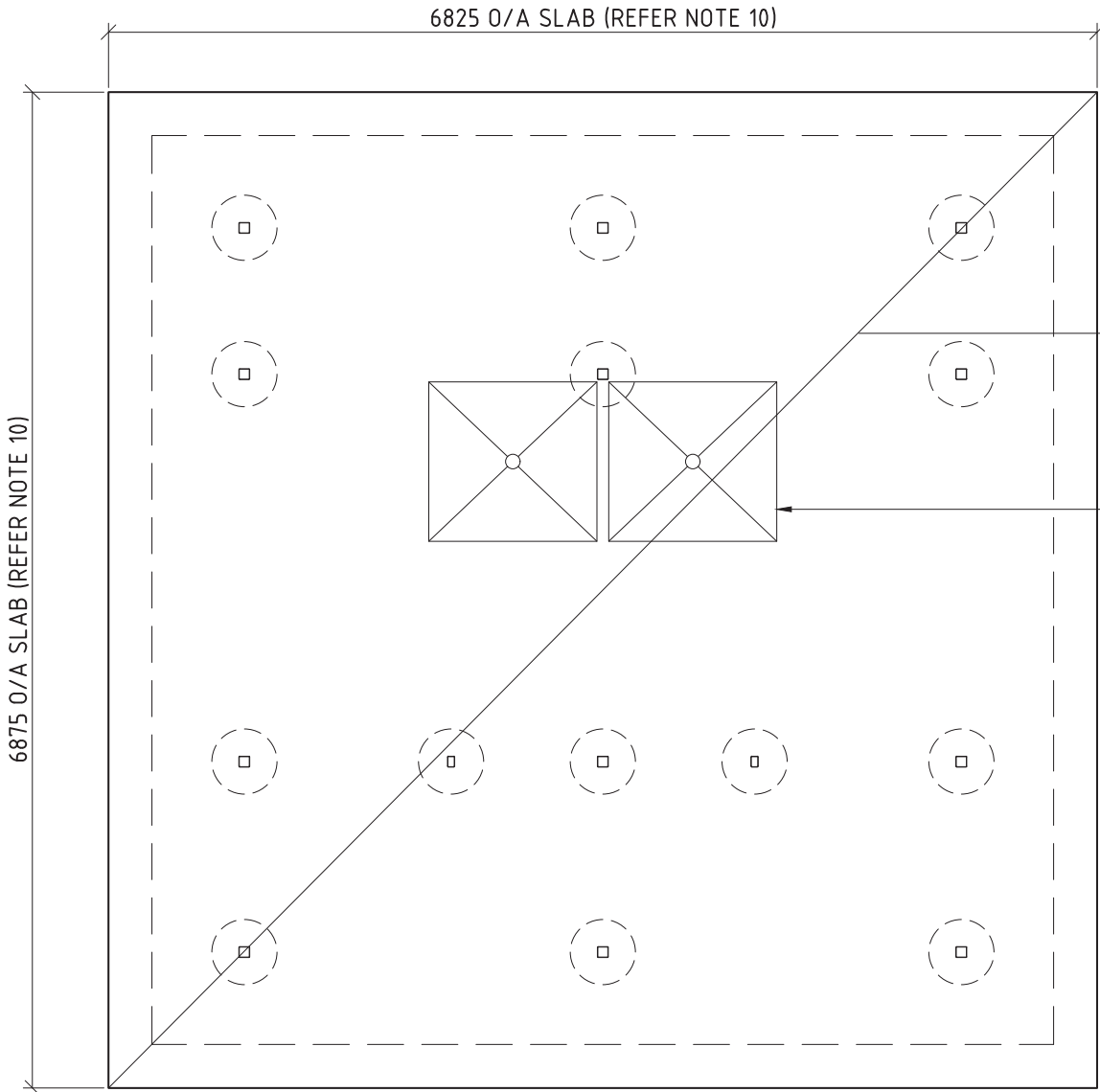
FOOTING DETAIL

SCALE 1:20
FINISHED SLAB LEVEL - ASSUMED 0.00
PL - PAD LEVEL



EDGE BEAM DETAIL

SCALE 1:10



SLAB LAYOUT

SCALE 1:50

100 THK CONCRETE SLAB, REINF, WITH 1-LAYER SL72 FABRIC. LAID ON 50 BEDDING SAND AND 200µm WATERPROOF MEMBRANE. FALL 1:100 (MIN).

SHOWER RECESS WITH FLOOR WASTE

ROCKHAMPTON REGIONAL COUNCIL
APPROVED PLANS

These plans are approved subject to the current conditions of approval associated with

Development Permit No: D/5-2018

Dated: 15 February 2018

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|----------|---|----------|-----------|---|--|--|--|-------------|--------|
| 6 | - | - | - | | | ROCKHAMPTON REGIONAL COUNCIL | | 34345 | A3 |
| 5 | - | - | - | | | PROJECT | | DATE: | DRAWN |
| 4 | - | - | - | | | TOONOOPA PARK, QUAY STREET, ROCKHAMPTON, QLD, 4700 | | 05/12/17 | JEO |
| 3 | - | - | - | | | MOD K9504 "CARETAKER" 2D (SKILLION) RESTROOM | | DRAWING No. | SCALE |
| 2 | - | - | - | CHECKED BY: | DATE: | DRAWING TITLE | | 34345 | AS NTD |
| 1 | SOIL REPORT REFERENCED, FOOTING & EDGE BEAM AMENDED | 18/12/17 | MAF | | | BA - SLAB PLAN | | SHEET No. | REV. |
| | | | | | | | | 202 | 1 |