

## GENERAL NOTES:

- G1 THE BUILDER SHALL BE RESPONSIBLE FOR MAINTAINING STABILITY OF THE STRUCTURE UNTIL COMPLETION OF CONSTRUCTION AND SHALL ENSURE THAT NO PART OF THE STRUCTURE IS OVERSTRESSED.
- G2 THE BUILDER SHALL CHECK ALL DIMENSIONS AND ALL EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION.
- G3 ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE MADE GOOD AT THEIR OWN COST.
- G4 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING AUSTRALIAN STANDARDS, EXCEPT WHERE VARIED BY THE SPECIFICATIONS AND/OR DRAWINGS: –  
 AS 1684.2 (2010) RESIDENTIAL TIMBER FRAMED CONSTRUCTION  
 AS 1720.1 (2010) TIMBER STRUCTURES  
 AS 2870 (2011) RESIDENTIAL SLABS AND FOOTINGS  
 AS 3600 (2009) CONCRETE STRUCTURES  
 AS 3798 (2007) GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS  
 AS 4100 (1998) STEEL STRUCTURES
- G5 DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
- G6 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE U.N.O.
- G7 U.N.O. DENOTES UNLESS NOTED OTHERWISE.
- G8 THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO TENDERING TO FAMILIARISE THEMSELVES WITH ACCESS SITE CONDITIONS
- G9 THE CONTRACTOR MAY OFFER FOR CONSIDERATION ALTERNATIVE PROVEN EQUAL PRODUCTS TO THOSE INDICATED. ALTERNATIVE PRODUCTS ARE NOT TO ADVERSELY AFFECT THE PROJECT AND CANNOT BE SUBSTITUTED WITHOUT PRIOR APPROVAL.
- G10 EXISTING SERVICES TO BE LOCATED BEFORE CONSTRUCTION COMMENCES.
- G11 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SHEET 2 TO 4.
- G12 CONSULT BCC ARCHITECT FOR COLOUR SCHEME OF THE STRUCTURE.
- G13 LIGHTNING PROTECTION AS PER BSD-10133.

## DESIGN CRITERIA:

WIND LOADS : REGION B TERRAIN CATEGORY 1.5

ULTIMATE WIND SPEED = 54.0 m/s

SHELTER IS DESIGNED FOR THE CONDITION "EMPTY UNDER" ACCORDING TO AS 1170.2 (2011)

DESIGN LIFE : 50 YEARS WITH ROUTINE MAINTENANCE.

LIVE LOADS: : FLOOR = 5.0 kPa. ROOF = 0.25 kPa / 1.4 kN.

STRUCTURE IS DESIGNED TO REMAIN OPEN – NO SCREENS(IMPERMEABLE OR PERMEABLE BARRIERS) TO BE INSTALLED.

TERRAIN CATEGORY 1.5 CORRESPONDS TO AN ENVIRONMENT WITH OPEN WATER SURFACES, SUBJECTED TO SHOALING WAVES AT SERVICEABILITY AND ULTIMATE WIND SPEEDS IN ALL WIND REGIONS.

## FOUNDATIONS AND SLAB ON GROUND:

- F1 ALL FOOTINGS ARE TO BE FOUNDED IN THE NATURAL UNDISTURBED SOIL PROFILE WITH A MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 100kPa UNLESS NOTED OTHERWISE. IF SITE CONDITION IS DIFFERENT, CONSULT A STRUCTURAL ENGINEER
- F2 SOIL TEST IS REQUIRED TO CONFIRM BEARING CAPACITY AND SITE CLASSIFICATION TO AS 2870.
- F3 FOUNDATIONS ARE TO BE CHECKED AND CERTIFIED BY A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER, QUEENSLAND (RPEQ).
- F4 COMPACT AND PREPARE THE BASE TO PROVIDE A SOUND PLATFORM AND ANY ORGANIC, SOFT OR LOOSE MATERIALS REMOVED AND REPLACED WITH COMPACTED FILL – BCC SPECIFICATION S300 QUARRY PRODUCTS CLASS I MATERIAL.
- F5 THE BOTTOMS OF ALL FOOTINGS ARE TO BE CLEANED OF ALL LOOSE MATERIAL AND WATER PRIOR TO POURING CONCRETE.
- F6 SLABS ON GRADE SHALL BE UNDERLAIN WITH CONTINUOUS LAYER OF 200 MICRON (0.2mm) THICK POLYETHYLENE DAMPPROOF MEMBRANE AS PER AS 2870, LAPPED AND TAPED TO MANUFACTURER'S SPECIFICATION.

## EARTHWORKS:

- E1 STRIP ALL HUMUS MATERIAL FROM THE AREA OF THE BUILDING IMPRINT AND 1000 BEYOND.
- E2 PROOF ROLL THE AREAS TO BE CONCRETED AND PAVED. REMOVE ANY WEAK MATERIAL.
- E3 USE NON-HUMUS CUT MATERIAL OR IMPORTED APPROVED NON-REACTIVE SOIL AS FILL.
- E4 COMPACTED FILL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 150mm LOOSE DEPTH TO 98% MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289. 5.1.1 (STANDARD COMPACTION). CARRY OUT DENSITY TESTS AT A RATE OF 2 PER LEVEL OF FILL. EVERY TEST MUST PASS.

## TIMBER NOTES:

- T1 ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 1720 AND AS 1684.
- T2 TIMBER GRADES SHALL BE AS SHOWN ON THE DRAWINGS. ALL TIMBER TO BE SEASONED HARD WOOD, NATURAL DURABILITY CLASS 1 (ABOVE GROUND) WITH SAPWOOD REMOVED OR SAPWOOD PRESERVATIVE – TREATED TO H3. IN ACCORDANCE WITH AS1684.2 APPENDIX B.
- T3 ALL FASTENERS SHALL BE HOT DIP GALVANISED. BOLTS TO BE METRIC HEX-HEAD M16 MINIMUM WITH WASHERS U.N.O. CLEAT PLATES TO BE 10mm THICK U.N.O.  
 IN MARINE ENVIRONMENT, ALL FASTENERS, CLEATS, STEEL MEMBERS, NAILS, AND BOLTS SHALL BE STAINLESS STEEL GR. 316 U.N.O. THE MARINE ENVIRONMENT EXTENDS 1km FROM FORESHORE.
- T4 TIMBER JOINT GROUP JD2 OR BETTER.
- T5 ALL TIMBER SHALL BE FULLY DRESSED AND ALL EDGES, ENDS AND CORNERS TO BE 6mm DRESSED.
- T6 PROTECT ENDS OF EXPOSED MEMBERS. USE A HIGH QUALITY EXTERIOR PAINT FINISH.
- T7 ALL TIMBER FRAMING SHALL BE NATURALLY TERMITE RESISTANT, NO TIMBER IS IN CONTACT WITH THE GROUND,
- T8 ALL TIMBER TO BE PAINTED PRIOR TO FIXING INTO FINAL POSITION. REFER TO PROJECT SPECIFICATION.
- T9 WASHER SIZES TO BE:  
 M10 – 45 DIA.  
 M12 – 55 DIA.  
 M16 – 65 DIA.

## CONCRETE NOTES:

- C1 ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 3600.
- C2 ALL CONCRETE SHALL BE PREMIXED BY AN APPROVED SUPPLIER.
- C3 ALL CEMENT SHALL BE TYPE GP OR GB.
- C4 CONCRETE SPECIFICATION: NOMINAL AGGREGATE SIZE TO BE 20mm, SLUMP TO BE NOT GREATER THAN 80mm.
- C5 CONCRETE STRENGTH AND CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE  

U.N.O.	ELEMENT:	F'C (MPa)	REINFORCEMENT COVER
	PIERS	32	75
	SLAB	32	CENTRALLY PLACED.
- C6 ALL LAPS IN REINFORCEMENT SHALL BE AS SHOWN IN THE TABLE BELOW UNLESS NOTED OTHERWISE.  

BAR	LAP LENGTH (mm)
N12	500
N16	650
MESH	350
- C7 REINFORCEMENT SYMBOLS:  
 R STRUCTURAL PLAIN ROUND GRADE 250R TO AS 4671.  
 N DEFORMED BAR GRADE D500N TO AS 4671.  
 SL HARD DRAWN STEEL REINFORCING FABRIC GRADE D500L TO AS 4671.
- C8 SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- C9 NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL BY THE SUPERINTENDENT.
- C10 ALL CONCRETE SHALL BE COMPACTED USING A MECHANICAL VIBRATION PROCESS.
- C11 ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS.
- C12 CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE SUPERINTENDENT.

## INSPECTION AND CERTIFICATION NOTES:

- A1 THE CONTRACTOR'S ENGINEER (RPEQ) SHALL UNDERTAKE INSPECTIONS DURING CONSTRUCTION TO ENSURE ALL CONSTRUCTION WORKS ARE IN ACCORDANCE WITH THE MOST CURRENT ISSUE OF THE STRUCTURAL DRAWINGS AND THE CONTRACT DOCUMENT. THE RPEQ SHALL CERTIFY ALL CONSTRUCTION WORK (FORM 16). ANY ALTERNATIVE TECHNIQUE USED IN CONSTRUCTION SHALL BE FOLLOWED BY A DESIGN CERTIFICATE (FORM 15) BY THE CONTRACTOR'S PROFESSIONAL ENGINEER (RPEQ).

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
C	Drawing Title Amended	FEB '16	JUL '16	JUL '16
B	NOTE G13 ADDED - LIGHTNING PROTECTION	JUNE '15	JUNE '15	JUNE '15
A	ORIGINAL ISSUE	SEPT '14	SEPT '14	SEPT '14

DESIGN	L.M.	DATE	Sept '14
DRAWN	G.B.	DATE	Sept '14
CHECKED	D.B.	DATE	Sept '14
DRAWING FILENAME	BSD-10132 (K) Skillion Roof Shelter - Park - Structural notes (Page 1 of 2) - Sheet 1 of 5.dwg		
ASSOCIATED PLANS	BSD-10132 SHEETS 2 TO 5		



STRUCTURAL DESIGN CERTIFICATION		
DESIGN Original signed by : L. Mendis RPEQ: 8950 – 2014.11.26	DESIGN CHECK Original signed by : D. Bateup RPEQ: 13095 – 2014.11.26	AUTHORISED FOR ISSUE Original signed by : B. Balakumar RPEQ: 3963 – 2014.11.27
BRISBANE CITY COUNCIL STANDARD DRAWING		
SKILLION ROOF SHELTER-PARK STRUCTURAL NOTES (PAGE 1 OF 2) SHEET 1 OF 5		SCALE NOT TO SCALE DWG No. <b>BSD-10132</b> ORIGINAL SIZE A3 REVISION C