

## 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 1170 LOADING CODES  
 AS 1684 RESIDENTIAL TIMBER FRAMED CONSTRUCTION  
 AS 1720 TIMBER STRUCTURES  
 AS 2870 RESIDENTIAL SLABS AND FOOTINGS  
 AS 3600 CONCRETE STRUCTURES  
 AS 3798 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS  
 AS 4100 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 TO BE READ IN CONJUNCTION WITH UMS 547, 756-2, 757, 758-1, 758-2, AND 760.

## DESIGN CRITERIA:

WIND LOADS : REGION B TERRAIN CATEGORY 2.0  
 ULTIMATE WIND SPEED = 52.0 m/s  
 SHELTER IS DESIGNED FOR THE CONDITION "BLOCKED UNDER" ACCORDING TO AS 1170.2 : 2002  
 DESIGN LIFE : 50 YEARS  
 LIVE LOADS: : FLOOR = 5.0 kPa. ROOF = 0.25 kPa / 1.1 kN.  
 STRUCTURE IS DESIGNED TO REMAIN OPEN – NO SCREENS/IMPERMEABLE BARRIERS TO BE INSTALLED.  
 TERRAIN CATEGORY 2.0 CORRESPONDS TO AN ENVIRONMENT WITH WATER SURFACES, OPEN TERRAIN, GRASS LAND WITH WELL SCATTERED OBSTRUCTIONS HAVING HEIGHTS FROM 1.5m TO 10.0m.

## 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 SOIL.
- F5 THE BOTTOMS OF ALL FOOTINGS ARE TO BE CLEANED OF ALL LOOSE MATERIAL AND WATER PRIOR TO POURING CONCRETE.
- F6 STARTER BARS AND HD BOLTS ARE TO BE ACCURATELY POSITIONED AND HELD SECURELY IN PLACE.
- F7 FOR CONTROL JOINT LOCATIONS, REFER TO DRAWINGS.
- F8 SLABS ON GRADE SHALL BE UNDERLAIN WITH CONTINUOUS LAYER OF ICI FORTECON (200 MICRON THICKNESS OR SIMILAR APPROVED DAMPPROOF MEMBRANE 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.
- E5 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.
- E5 WHERE REQUIRED, PAVERS SHALL BE LAID ON A SAND BED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

## 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 OR KILN DRIED GRADE MGP15 MINIMUM U.N.O WITH DURABILITY CLASS 1.
- T3 JOIST HANGERS ARE TO HAVE A MINIMUM OF SIX (6) No. 3.15mm DIA. x 35mm LONG NAILS PER LEG/END.
- T4 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, NAILS AND BOLTS SHALL BE STAINLESS STEEL U.N.O. THE MARINE ENVIRONMENT MAY EXTEND 1km FROM FORESHORE.
- T5 TIMBER JOINT GROUP JD3 OR BETTER.
- T6 ALL TIMBER SHALL BE FULLY DRESSED AND ALL EDGES, ENDS AND CORNERS TO BE 6mm DRESSED.
- T7 PROTECT ENDS OF EXPOSED MEMBERS. USE A HIGH QUALITY EXTERIOR PAINT FINISH.
- T8 ALL TIMBER FRAMING ABOVE GROUND SHALL EITHER BE NATURALLY TERMITE RESISTANT OR TREATED USING LOSP OR ACQ CHEMICALS TO A HAZARD RESISTANCE LEVEL H3 IN ACCORDANCE WITH AS 1684 APPENDIX C. WHERE THE TIMBER IS IN CONTACT WITH THE GROUND, IT SHALL BE TREATED TO A HAZARD RESISTANCE LEVEL H5.
- T9 ALL TIMBER TO BE STAINED OR PAINTED PRIOR TO FIXING INTO FINAL POSITION. REFER TO SPECIFICATION.

## 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    | 25        | 75                  |
|        | SLAB     | 32        | 75                  |
- 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 APPROVE BAR CHAIRS, SPACERS OR SUPPORT BARS.
- C12 CONCRETE SLAB ON GROUND SHALL TYPICALLY BE 125mm THICK WITH SL81 MESH CENTRALLY PLACED. LAPS ARE TO BE AS SHOWN ABOVE.
- C13 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)

STRUCTURAL DESIGN REVIEWED AND CERTIFIED FOR ISSUE  
 NAME: LENITA MENDIS RPEQ: 8950  
 SIGNATURE: ON ORIGINAL DATE: 14/09/2011

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
B	REVISED NEW ISSUE	ZB 06/11	LM 06/11	BB 09/11
A	ORIGINAL ISSUE	Aug '05	Nov '05	Mar '06

DESIGN	L.M.	DATE
DESIGN AUTHORIZED FOR ISSUE P COTTON SIGNATURE ON ORIGINAL DATED 21/03/06		Aug. '11
DRAWN	Z.B.	Aug. '11
CHECKED	V.F.	Aug. '11
DRAWING FILENAME	UMS 760/1, 760/2.dwg	
ASSOCIATED PLANS	UMS 760/2, 756, 758/1, 758/2, 757	

MANAGER CITY ASSETS, R.P.E.Q.: 2546  
 DESIGN APPROVED  
 L PLANT SIGNATURE ON ORIGINAL  
 DATED 12/05  
 PRINCIPAL PROGRAM OFFICER PARKS



## BRISBANE CITY COUNCIL STANDARD DRAWING

PARK SHELTERS  
 STRUCTURAL NOTES  
 SHEET 1 OF 2

SCALE	AS SHOWN
DWG No.	UMS 760/1
ORIGINAL SIZE	A3
REVISION	B