A1

GENERAL

G1 THESE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO MACMAHON BEFORE PROCEEDING WITH THE WORK.

DETAIL NOTES ON THESE DRAWINGS AND THE SPECIFICATION CLAUSES TAKE PRECEDENCE OVER THE GENERAL NOTES.

G2 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT STANDARDS AUSTRALIA CODES AND WITH THE BUILDING CODE OF AUSTRALIA.

G3 ALL DIMENSIONS SHOWN ON THESE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR ON SITE. THESE STRUCTURAL DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

G4 UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.

G5 THE STRUCTURAL COMPONENTS DETAILED ON THESE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT STANDARDS AUSTRALIA CODE AND BUILDING CODE OF AUSTRALIA FOR THE FOLLOWING LOADINGS. REFER TO ARCHITECTURAL DRAWINGS FOR PROPOSED FLOOR USAGE.

ULTIMATE LIMIT STATE		
FLOOR USAGE	LIVE LOAD (kPa)	SUPERIMPOSED DEAD LOAD (kPa)
BOARDWALK AND CONCOURSE	5.0	0.6

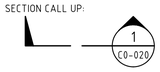
FOR PEDESTRIAN USE ONLY. NO MOORING OR OTHER MARINA RELATED LOADS HAVE BEEN ALLOWED FOR.

G6 THE METHOD OF CONSTRUCTION AND THE MAINTENANCE OF SAFETY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. IF ANY STRUCTURAL ELEMENT PRESENTS DIFFICULTY IN RESPECT OF CONSTRUCTABILITY OR SAFETY, THE MATTER SHALL BE REFERRED TO THE ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

G7 DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERLOADED. TEMPORARY BRACING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR IN ORDER TO KEEP THE BUILDING WORKS AND EXCAVATIONS STABLE AT ALL TIMES.

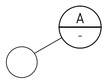
G8 ESTABLISH, ON-SITE, THE EXACT POSITION OF ALL UNDERGROUND SERVICES INDICATED ON THE DRAWING(S) IN THE AREAS OF THE PROPOSED WORKS, AND ADVISE THE ENGINEER IN THE EVENT OF ANY DISCREPANCIES WHICH AFFECT THE PROPOSED WORKS.

G9 SECTION CALL UP:



SECTION NUMBER
DRAWING REFERENCE NUMBER

DETAIL CALL UP



DETAIL LETTER
DRAWING REFERENCE NUMBER

STEEL

S1. COMPLY WITH AS 4100.

S2. ENSURE WELDING IS PERFORMED BY AN EXPERIENCED OPERATOR IN ACCORDANCE WITH AS 1554.

S3. USE HOT DIPPED GALVANISED COMMERCIAL BOLTS (GRADE 4.6/S) TO AS 1111 AND AS 1112, TIGHTENED TO A SNUG TIGHT FIT UNLESS OTHERWISE SHOWN. WHERE BOLTS ARE DESIGNATED GRADE 8.8/S, USE HIGH STRENGTH BOLTS TO AS 1252, TIGHTENED TO A SNUG, TIGHT FIT.

S4. WHERE BOLTS ARE DESIGNATED 8.8/TF OR GRADE 8.8/TB USE HIGH STRENGTH STEEL BOLTS (GRADE 8.8) TO AS 1252, FULLY TENSIONED IN ACCORDANCE WITH AS 1511.

S5. PROVIDE AND LEAVE IN PLACE, UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED, SUCH TEMPORARY BRACING AS IS NECESSARY TO STABILISE THE STRUCTURE DURING CONSTRUCTION.

S6. SCREW FIX EXTERNAL SHEETING IN ACCORDANCE WITH THE RELEVANT DTC STANDARDS.

S7. SEAL THE ENDS OF ALL TUBULAR MEMBERS WITH 8mm THICKNESS PLATES AND CONTINUOUS FILLET WELDS UNLESS OTHERWISE SHOWN.

S8. PROVIDE CAMBER AS NOTED ON THE DRAWINGS.

S9. DO NOT PAINT MEMBERS ENCASED IN CONCRETE, FIRE SPRAYED OR FRICTION GRIP BOLTED CONNECTIONS.

S11. BEFORE FABRICATION IS COMMENCED SUBMIT 3 COPIES OF SHOP DRAWINGS TO THE SUPERINTENDENT FOR REVIEW. REVIEW DOES NOT INCLUDE CHECKING OF DIMENSIONS.

S12. THE FOLLOWING NOTATION IS USED FOR THE VARIOUS BOLT TYPES AND BOLTING CONNECTIONS COMMERCIAL BOLTS SNUG TIGHTENED:
BOLTING PROCEDURE 4.6/S M20
HIGH STRENGTH BOLTS SNUG TIGHTENED:
BOLTING PROCEDURE 8.8/S M20 8.8/S
HIGH STRENGTH BOLTS FULLY TENSIONED:
BOLTING PROCEDURE 8.8/TF M20 8.8/TF
(FRICTION TIGHT JOINTS)
BOLTING PROCEDURE 8.8/TB M20 8.8/TB
(BEARING TYPE JOINTS)

S13. UNLESS NOTED OTHERWISE ALL MATERIAL TO BE:
GRADE 250 - HOT ROLLED PLATES, FLATS AND ANGLES 100 x 100 EA OR 125 x 75 UA AND SMALLER.
GRADE 300 PLUS - UB, UC, PFC AND LARGER ANGLES.
GRADE 300 - WB AND WC.
GRADE 350 - RHS, CHS AND SHS

S14. EXCEPT WHERE OTHERWISE SHOWN, FULLY WELD ALL CONNECTIONS WITH A CONTINUOUS 6mm GENERAL PURPOSE (G.P.) FILLET WELD. STRUCTURAL PURPOSE WELDS ARE DENOTED (S.P.)

S15. ALL EXTERNAL STEELWORK TO BE PAINTED AS FOLLOWS:
PREPERATION:
ABRASIVE GRIT BLAST TO CLASS 2.5 IN ACCORDANCE WITH AS 1627 PART 4.
PRIMER:
(APAS) GPC-C-29/75 OR BETTER INTERNATIONAL PROTECTIVE COATING INTERGAURD-275 75 MICRONS MINIMUM DRY FILM THICKNESS AND STRIP COAT ALL CORNERS, EDGES AND WELDED AREAS.
TOP COAT:
INTERZONE 954HS COLOURED BLCK MINIMUM DRY FILM THICKNESS 400 MICRONS.

ABBREVIATIONS

GENERAL			
&	AND	MAX.	MAXIMUM
ALT.	ALTERNATING BARS	MC	MASS CONCRETE
APPROX.	APPROXIMATE	MS	MILD STEEL
@	AT	MIN.	MINIMUM
AS	AUSTRALIAN STANDARD	NF	NEAR FACE
C/S	BRICKWORK COURSE	NTS	NOT TO SCALE
BOT.	BOTTOM	NO.	NUMBER
CI	CAST IRON	NSOE	NOT SHOWN ON ELEVATION
CRS	CENTRES	NSOP	NOT SHOWN ON PLAN
CL OR Á	CENTRE LINE	OPP.	OPPOSITE
COL	COLUMN	OD	OUTSIDE DIAMETER
CJ	CONSTRUCTION JOINT	OA.	OVERALL
CONT.	CONTINUOUS	PL	PLATE
CFW	CONTINUOUS FILLET WELD	RL	REDUCED LEVEL
DIA. OR ´	DIAMETER	RC	REINFORCED CONCRETE
DN	DIAMETER NOMINAL	REINF.	REINFORCEMENT
DRG	DRAWING	SQ.	SQUARE
EW	EACH WAY	STAG.	STAGGERED BARS
EF	EACH FACE	STD	STANDARD
FF	FAR FACE	SSL	STRUCTURAL SLAB LEVEL
FSBW	FULL STRENGTH BUTT WELD	T	TOP
FW	FILLET WELD	TBC	TO BE CONFIRMED
FFL	FINISH FLOOR LEVEL	TYP.	TYPICAL
FL OR Â	FLAT	U/S	UNDERSIDE
FLG.	FLANGE	UNO	UNLESS NOTED OTHERWISE
GL	GROUND LINE	VERT.	VERTICAL
HORIZ.	HORIZONTAL		
ID	INTERNAL DIAMETER		
LONG.	LONGITUDINAL		
LV	LENGTH VARIES		

AS BUILT

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Rev.	Date	Revision Details	By	Ver.	App.
B	13.01.09	AS BUILT	AH		
A	13.10.06	ISSUED FOR CONSTRUCTION (100% ISSUE)	JEK	RI	RSJ

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Client: MACMAHON

Client: Darwin Cove CONSORTIUM

Project: DARWIN CITY WATERFRONT STAGE 1 COMMUNITY & MARINE INFRASTRUCTURE WORKS
FLUSHING SYSTEM

Drawn	JEK	Signed JEK	Date 13.10.06
Designed	BWOH	Signed BWOH	Date 13.10.06
Verified	RI	Signed RI	Date 13.10.06
Approved	RSJ	Signed RSJ	Date 13.10.06

Drawing Title: STRUCTURAL NOTES

CW-DC Project No. JE02.03

Scale

Drawing No. JE02.03-S0-001 Rev. B

20 10 0 10 20 30 40 50 100mm

Cad File: P:\JE-Files\JE02\DWG\C-Macmahon\CAD\DWGS\JE02.03-S0-001.dwg Plot Date: 20/02/09 09:45 Xrefs: \\XBASE\V-03-A1-TITLE