LEN PRICE & ASSOCIATES PTY. LTD. AB.N. 66 006 282 837	Phone: 0412 406 873 Email: lenprice@iinet.net.au
Consulting Engineers, Building Consultants	172//
	Job No.: 17264
Job: MBURNIE CHROUP Date: AUG 22	Sheet No.:
HODENDUM LOMPS - FOR 3 M wid	
A JOISTS by observation 100x	SOX4 Rollod Chumel
B) BEARERS	
IM	
MOMENT M-WCZ	
WI SWC	
2	
=8.25×3 ²	
8	
2900 km	
= 9.28 haw)	
150×75×5 Channal	
Fb= 9.28×106	
V	_
52.9×103	
10	
= 175 11/4	
VIBRATION 5 125 D= 8	30 /
	-
DETLECTION	
DC++ BCC	
= 6 k/m	
1= 6x 3x32	
15 BK 3K3	
420/	
=3.8 x 10°	
- 10	
150 x75 x 5.0 a	Channel
*	

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Consulting Engineers, Building Consultants		100//
	٧	Job No.: 17264
Job: MIBURNIE CORONA Date:	AUG 22.	Sheet No.:
a SIDE BEAMS		
POINT LOAD STOMBER	4000	
POINT POND STONCISCA	, 2,00	
1 PC - 78 61/m	+3-10	Q hm)
i Zirajine	2-10	0 11.0
2)//		
7.5 m/m x	1.5= 11.25	5 MW
	Torse 12.3	3 W
	7	
	1 0-	
0.25(3.3) 12.3 (6.7) 12.3	3(6,7) 10-3/6	7) 6.25(3.3)
	·19/2m 1	6.2303.3)
	6	1
** DMC SOFTWARE - 'ARIES 2000' STRUCTURAL ENG		
Reg. USER: LEN PRICE & Associates P/L - Shep	X Reg. USER: LEN PR	'ARIES 2000' STRUCTURAL ENG RICE & Associates P/L - Shep
STRENGTH 31/08/22 15:07:21	DEFLECTION 31/08/22 15:0	9:29
SPANS AND EI'S 0.000 6.000 0.000	SPANS AND EI'S	0.000
SPANS AND EI'S 0.000 6.000 0.000 200E-03 200E-03 200E-03 LOADS 1 1 12.3 1.5	200E-03 200E-03 2	0.000 0.00E-03
1 1 12.3 1.5 1 1 12.3 3.0 1 1 12.3 4.5 - 1 1 6.3 0.0 1 1 6.3 6.0	1 1 3.	3 0.0
1 1 12.3 4.5	1 1 3. 1 1 3. 1 1 6.	7 1.5
- 1 1 6.3 0.0 1 1 6.3 6.0 TOTAL SPAN LOADS (kN) for Int. SPANS - 49.4	1 1 6. 1 1 6.	7 3.0 7 4.5
- 49.4 LOADS (KN) for Int. SPANS	TOTAL SPAN LOADS (kN) for Int. SPANS
Unreduced MOMENTS @ Support Centre Lines - 0.0 0.0		
_ Points of Contraflexure in Each Internal Span LH End 0.000	Points of Contrafl	
CRITICAL SECTIONS FROM C/L OF SUPPORTS (M)	RH End 6.000 CRITICAL SECTIONS	FROM C/L OF SUPPORTS (M)
DESIGN +VE & -VE MOMENTS, REACTIONS & SHEARS +VE MOMENTS 37		
DESIGN +VE & -VE MOMENTS, REACTIONS & SHEARS +VE MOMENTS 37 SUPP MOMENTS 0 0 REACTIONS 25 25	SHEAR 0.020 0. DESIGN +VE & -VE M +VE MOMENTS	O20 IOMENTS, REACTIONS & SHEARS
DESIGN +VE & -VE MOMENTS, REACTIONS & SHEARS +VE MOMENTS 37 SUPP MOMENTS 0 0 REACTIONS 25 25 SHEAR LEFT 0 18	SHEAR 0.020 0. DESIGN +VE & -VE M +VE MOMENTS SUPP MOMENTS 0 REACTIONS 13 SHEAR LEFT 0	O20 IOMENTS, REACTIONS & SHEARS 20 0 13 10
SHEAR LEFT 0 18 SHEAR RIGHT -18 0	DESIGN +VE & -VE M +VE MOMENTS SUPP MOMENTS 0 REACTIONS 13 SHEAR LEFT 0	O20 IOMENTS, REACTIONS & SHEARS 20 0 13 10
DESIGN +VE & -VE MOMENTS, REACTIONS & SHEARS +VE MOMENTS 37 SUPP MOMENTS 0 0 REACTIONS 25 25 SHEAR LEFT 0 18 SHEAR RIGHT -18 0 DEFLECTIONS (M) at MID SPANS - ELASTIC 6.57E+02	DESIGN +VE & -VE M +VE MOMENTS SUPP MOMENTS 0 REACTIONS 13 SHEAR LEFT 0	O20 IOMENTS, REACTIONS & SHEARS 20 0 13 10

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Consulting Engineers, Building Consultants	
	Job No.: 17264
Job: M'BURNIE CAPOUP. Date: AUG-22	Sheet No.: 3
MOMPHY 250×90×6 RC	/
D=3740°).
158×103	10
= 234 MPa V	
DEFLECTION	
I 2 3.58 X10	
17	
= 21×10	
/ 250×9	OXL RCV
SCREW PICES	
	2

- ALL DIMENSIONS RELEVANT TO SETTING OUT AND ON-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED. THE ENGINEER'S DRAWINGS SHALL NOT BE SCALED.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
- WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS AND THE LOCAL STATUTORY AUTHORITIES REQUIREMENTS.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCY TO BE REFERRED TO ENGINEER. ALL DIMENSIONS SHOWN ARE TO BE VERIFIED AT SITE. ENGINEERS DRAWING MUST NOT BE SCALED.

CONCRETE:

-	
C1	CONCRETE DESIGN STRENGTH (N'C AT 28 DAYS) TO BE AS FOLLOWS -
	GRADE FOR
	GRADE FOR
	GRADE FOR
C2	MAXIMUM SLUMP OF CONCRETE SHALL BE 65mm

- C3 REINFORCEMENT SYMBOLS:
 - R DENOTES STRUCTURAL GRADE ROUND BARS
 - S DENOTES STRUCTURAL GRADE DEFORMED BARS
 - C DENOTES COLD WORKED BARS
 - Y DENOTES DEFORMED TEMCORE BAR
 - F DENOTES HARD DRAWN STEEL WIRE FABRIC
- C4 REINFORCEMENT SPLICES SHALL BE LAP SPLICES AS REQUIRED BY THE CURRENT CONCRETE CODE UNLESS NOTED IN THE DRAWINGS. FOR FABRIC, THE MINIMUM SPLICE SHALL BE 220mm MINIMUM WITH THE OVERLAP MEASURED BETWEEN THE OUTERMOST WIRES AND NOT LESS THAN THE PITCH OF THE SECONDARY WIRES.
- C5 CLEAR CONCRETE COVER TO REINFORCEMENT, UNLESS OTHERWISE NOTED, TO BE: BELOW GROUND: BEAMS, PEDESTALS AND STRIP FOOTINGS 65 WALLS 30 PAD FOOTINGS 75 ABOVE GROUND: COLUMNS 40 BEAMS 25 INTERNAL SLABS 20 EXTERNAL SLABS 30
- C6 ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION SO AS NOT TO BE DISPLACED DURING CONCRETING ON APPROVED BAR CHAIRS AT 900mm MAXIMUM CENTRE BOTH WAYS.
- C7 PROVIDE 0.2mm POLYTHENE MOISTURE BARRIER THROUGHOUT UNDER ENTIRE SLAB ON GRADE.
- C8 CONCRETE SHALL BE PREVENTED FROM BONDING TO SUPPORTING BRICKWORK BY PROVIDING TWO LAYERS OF A SUITABLE MEMBRANE "MALTHOID" (OR SIMILAR). VERTICAL FACES OF CONCRETE SHALL BE KEPT FREE OF BRICKWORK BY PROVIDING 12mm THICKNESS OF BITUMINOUS IMPREGNATED "CANEITE", HIGH DENSITY CORK JOINT FILL, OR 3mm OF MALTHOID".

 C9 ALL CONCRETE SHALL BE PROPERLY COMPACTED BY MEANS OF APPROVED VIBRATORS.
- C10 CAMBER TO SUSPENDED SLABS AND BEAMS TO BE 5mm FOR EVERY 2500mm OF SPAN UNLESS OTHERWISE NOTED.
- C11 CONSTRUCTION JOINTS, WHERE NOT SHOWN, SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- C12 FORMWORK SHALL NOT BE STRIPPED UNTIL 28 DAYS HAS ELAPSED FROM TIME OF POUR UNLESS APPROVED OTHERWISE BY THE ENGINEER
- C13 BRICKWORK MUST NOT BE BUILT ON CONCRETE SLABS OR BEAMS UNTIL FORMWORK, SUPPORTING SAME, HAS BEEN REMOVED.

STRUCTURAL STEELWORK:

- 51 THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED SUCH TEMPORARY BRACING AS IS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.
- 52 BUTT WELD END PLATES AND STIFFENERS TO SECTION FLANGES AND FILLET WELD TO WEBS. UNLESS OTHERWISE NOTED, ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD, LAID DOWN WITH APPROVED COVERED ELECTRODE.
- 53 BOLTS SHALL BE BLACK BOLTS COMPLYING WITH RELEVANT CODE EXCEPT WHERE THE FOLLOWING DESIGNATIONS ARE MADE. H.S.B. HIGH STRENGTH BEARING BOLTS WITH THREAD EXCLUDED FROM THE SHEAR PLANE AND H.S.F.G. DENOTES HIGH STRENGTH. FRICTION GRIP BOLTS, BOTH COMPLYING WITH RELEVANT CODE.
- S4 CAMBER TO STRUCTURAL STEEL BEAMS, TRUSSES, PORTALS ETC. TO BE 5mm FOR EVERY 2000mm OF SPAN UNLESS OTHERWISE NOTED.
- S5 ALL STRUCTURAL STEELWORK BELOW GROUND TO BE ENCASED BY CONCRETE 75mm MIN ALL ROUND.
- S6 CONCRETE ENCASED STRUCTURAL STEEL TO BE ENCLOSED BY F41 MESH PLACED 25 CLEAR OF STEEL. ENCASING TO PROVIDE 50 MIN. COVER, 75 WHERE EXPOSED TO EARTH. ALL OTHER STEELWORK TO BE GIVEN ONE SHOP COAT OF APPROVED PAINT UNLESS OTHERWISE NOTED.

MASONRY:

- M1 MORTAR IN BRICKWORK SHALL BE 1:1:6 UNLESS OTHERWISE SPECIFIED.
- M2 MINIMUM COMPRESSIVE STRENGTH OF BRICK TO BE 30 MPa UNLESS OTHERWISE APPROVED.
- M3 MINIMUM COMPRESSIVE STRENGTH OF CONCRETE BLOCKS-TO BE 12 MPa UNLESS OTHERWISE APPROVED.
- M4 ALL JOINTS IN BRICK AND/OR BLOCK WALLS TO BE IN ACCORDANCE WITH THE RELEVANT CODE AND GOOD TRADE PRACTICE.
- MS CAVITY WALL TIES TO BE IN ACCORDANCE WITH THE CURRENT U.B.R. REQUIREMENTS.
- M6 ALL STEEL COLUMNS, MULLIONS AND HORIZONTAL SUPPORTS, PROVIDE 3.2 DIA TIES WELDED OR FIXED TO STEEL WORK IN AN APPROVED MANNER AT 600 C/C.

FOUNDATIONS:

F1	FOUNDATION MATERIAL TO BE APPROVED BEFORE POURING CONCRETE FOR SAFE BEARING CAPACITY OF:
	KPa FOR
	KPa FOR
F2	ANY FILL USED SHALL BE A SELECT NON-EXPANSIVE MATERIAL CONTAINING NO PIECES LARGER THAN 75mm. FILL SHALL BE
	PLACED IN 150mm LAYERS AND UNIFORMLY COMPACTED USING PROPER EQUIPMENT AT LEAST 95% RELATIVE DENSITY AS PE
	A A SHID STANDARD TEST

PER