

Construction Certificate Determination

issued under the Environmental
Planning and Assessment Act 1979
Section 109C (1) (b), 81A (2) and 81A (4)**Certificate No. 2005/455**

Council	Pittwater
Determination date of determination	28 January 2005
Subject land Address Lot No, DP No.	2 Bilgola Ave, Bilgola Lot 25 DP 11978
Applicant Name Address Contact No. (phone)	June Whittleton 2 Bilgola Ave, Bilgola NSW 2107
Owner Name Address Contact No. (phone)	June Whittleton 2 Bilgola Ave, Bilgola
Description of Development Type of Work	Deck Addition
Builder or Owner/Builder Name Contractor Licence No/Permit	Bob Dunbar Enterprises 138495C
Value of Work Building	\$5,964.00

Attachments

Nil

**COUNCIL
COPY**

Plans & Specification**approved**List plans no(s) & specifications
Reference

1. **Architectural Plans & Construction Specifications** nos. X04392-1, -2 & -3, prepared by Brown Consulting (NSW) Pty Ltd, dated 10 September 2004 and 17 September 2004
2. **Structural Engineers Plans, Drawing** nos. X04392-4, -5 Rev A, dated 25 October 2004, prepared by Brown Consulting (NSW) Pty Ltd
3. **Sydney Water approval** dated 19 January 2005
4. **Set of endorsed photographs of road reserve/footpath, reference no. 94.1-8, endorsed and dated 21 January 2005**

Certificate

I certify that the work if completed in accordance with these plans and specifications will comply with the requirements of S81A(5) of the Environmental Planning and Assessment Act 1979.

Signed**28 JAN 2005****Date of endorsement
Certificate No.****2005/455**

Certifying AuthorityName of Accredited Certifier
Accreditation No.
Accreditation AuthorityStephen Pinn
93Dept of Infrastructure, Planning & Natural Resources
(NSW Accreditation Scheme)Contact No.
Address

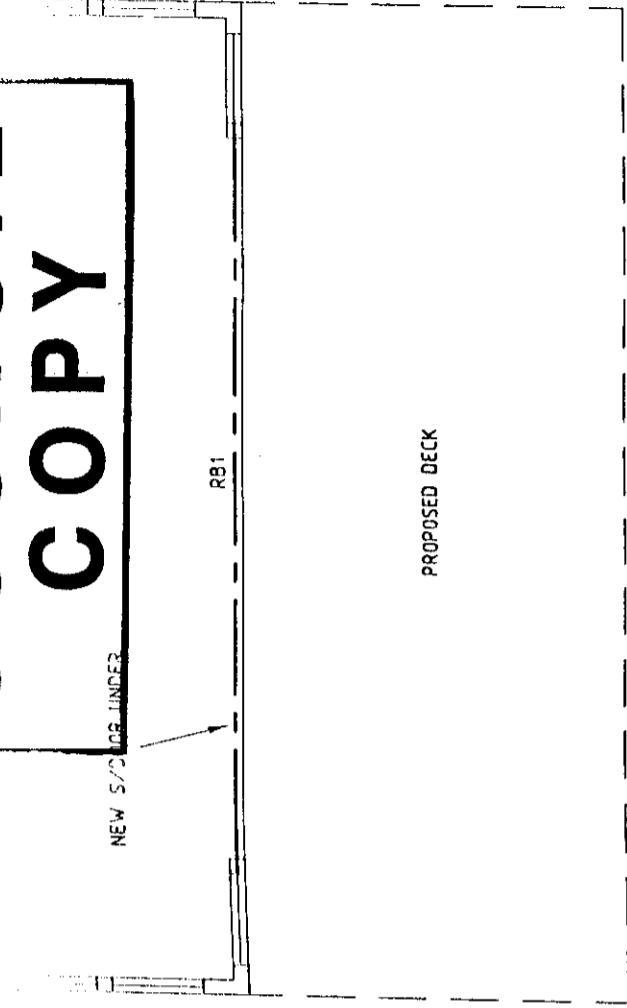
(02) 9999 0003

13/90 Mona Vale Road, Mona Vale NSW 2103

Development ConsentDevelopment Application No.
Date of Determination**NO789/04****20 December 2004**

BCA Classification**1a**

COUNCIL COPY



ROOF FRAMING

SCALE: 1:50
 MEMBER SCHEDULE: COUNCIL
 ROOF BEAM: FLOP MEN 360 x 63 HYPAN
 RB1

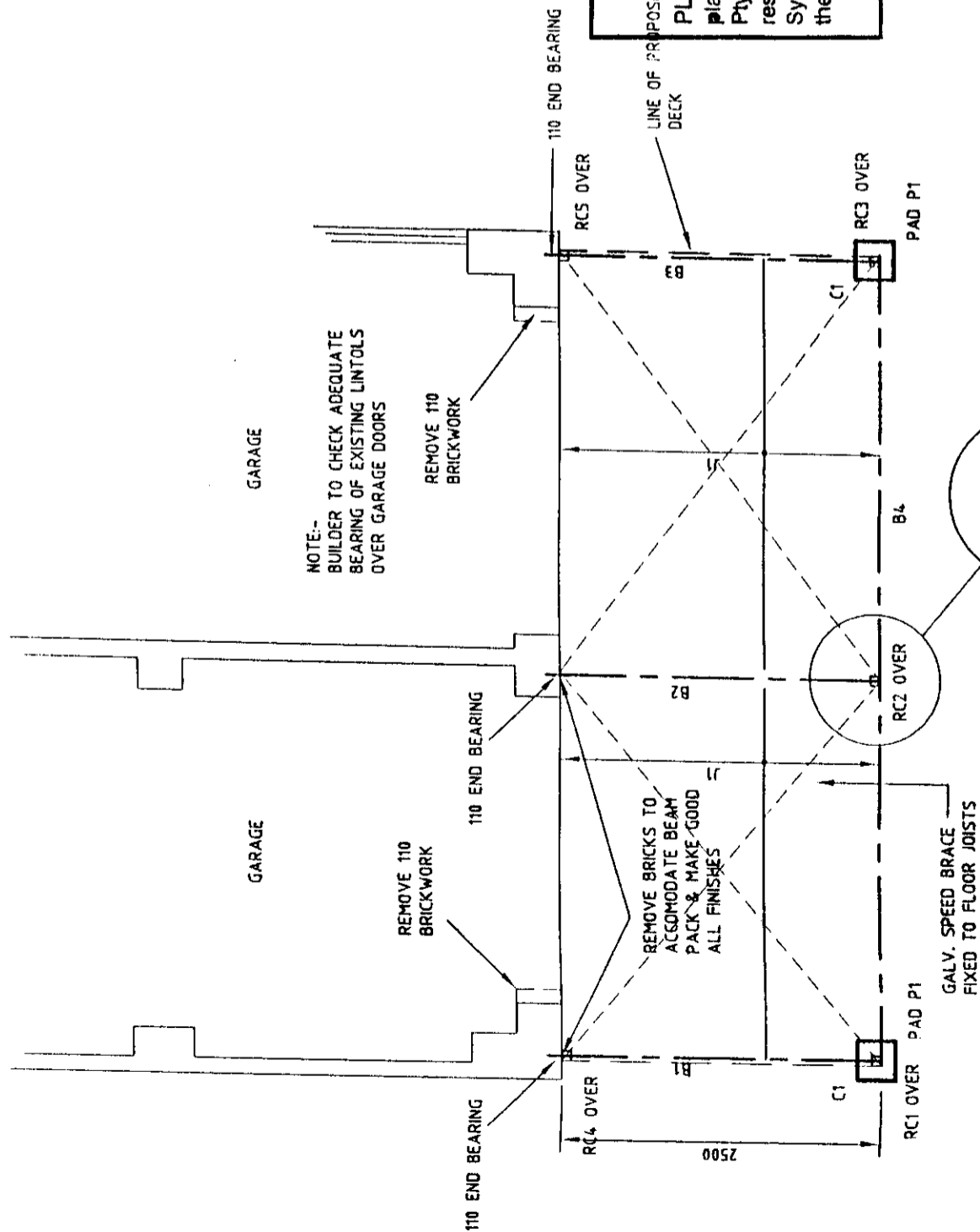
NOTE:- FIX EXISTING RAFTERS TO RB1 WITH 2 TRIP-L-GRIP ANCHORS PER RAFTER

WARNING

PLEASE NOTE: The stamping of this plan by Insight Development Consultants Pty Ltd does not relieve the Applicants responsibility to obtain approval from Sydney Water or other utilities prior to the commencement of any works.

Dial Before You Dig 1100

NOTE: THESE PLANS MUST BE READ IN CONJUNCTION WITH THE CONDITIONS



DECK FLOOR FRAMING

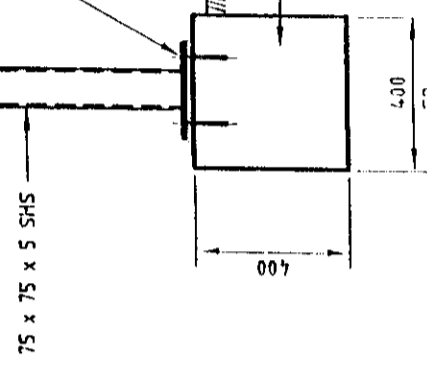
SCALE:- 1:50

MEMBER SCHEDULE:

COLUMN:-	C1	75 x 75 x 5 SHS
RAIL COLUMNS:-	RC1 TO RC5	75 x 75 x 5 SHS
BEAMS:-	B1	150 x 75 PFC
	B2	150 x 75 PFC
	B3	150 x 75 PFC
	B4	250 x 90 PFC

JOISTS:- C/S024 AT 450 CRS.

HD GALV. AFTER FABRICATION SUCH AS INDUSTRIAL GALVANISERS CORP. P/L



PAD P1 DETAIL

SCALE:- 1:20

INSIGHT DEVELOPMENT CONSULTANTS PTY LTD

Structural Details C.C. No. 2005/455
 PLEASE NOTE: The stamping of this plan by Insight Development Consultants Pty Ltd does not relieve the Structural Engineers of their responsibility to ensure the structural adequacy of this project.

ALL STEELWORK TO BE HOT DIPPED GALVANISED TO AS4680 & OVER PAINTED TO SUIT SEVERE MARINE EXPOSURE

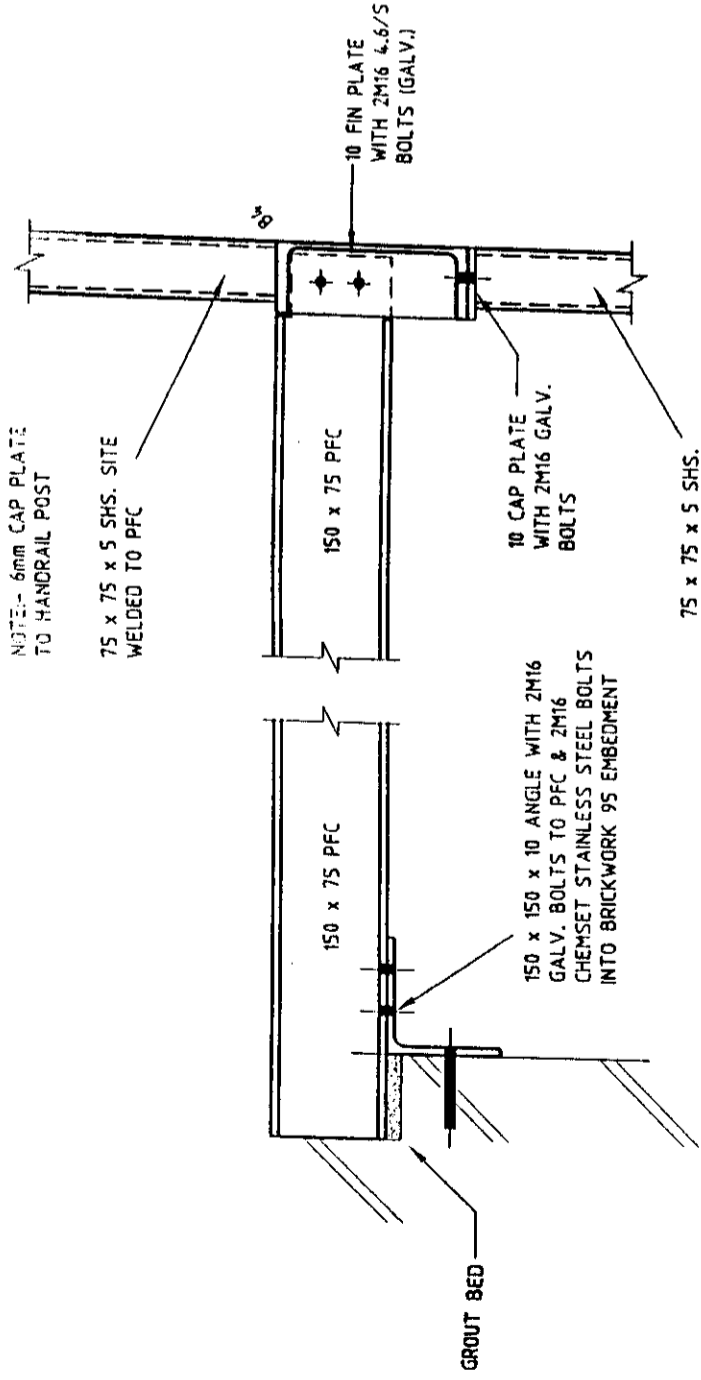
NO.	REV.	DATE	BY	CHKD	DESCRIPTION
1	1	12/01/04	ME	ME	ISSUED FOR PERMIT
2	1	12/01/04	ME	ME	ISSUED FOR PERMIT

Mr & Mrs. E. WHITTLETON

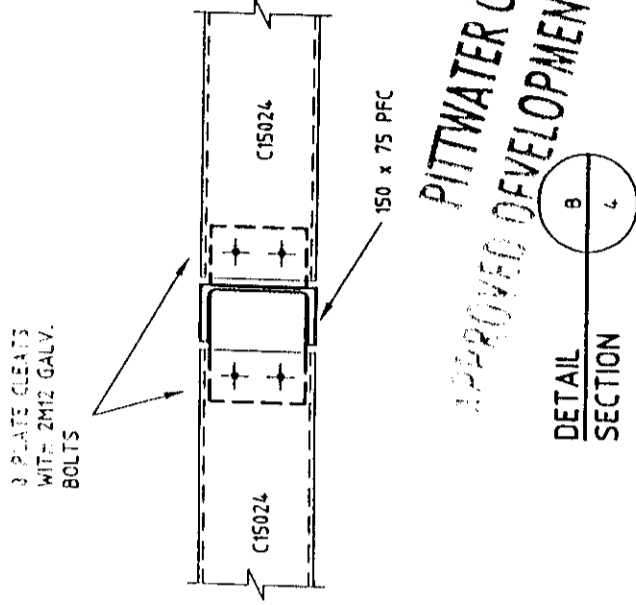
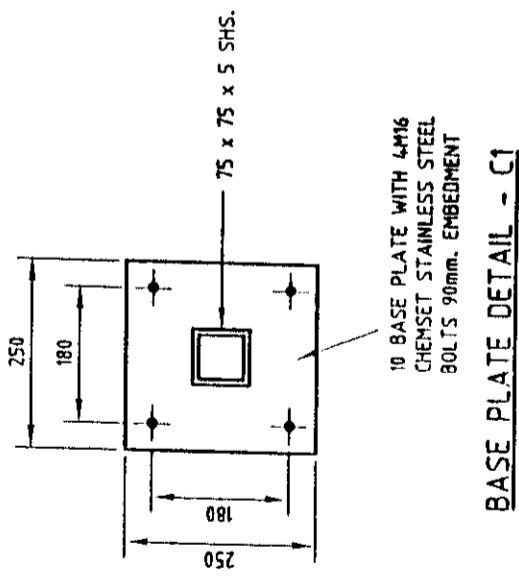
BROWN

PROPOSED DECK AT
 No. 2 BILGOLA AVE
 BILGOLA BEACH

FLOOR & ROOF FRAMING
 STRUCTURAL

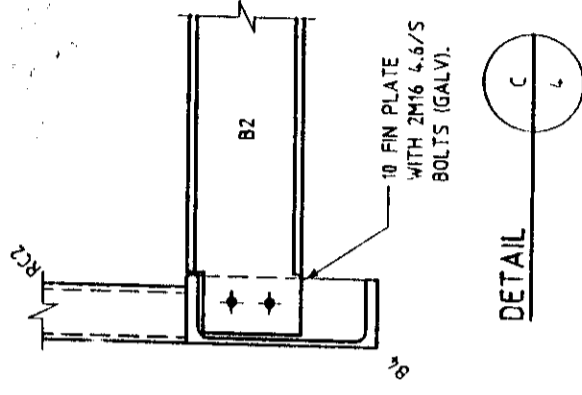


BEAM ELEVATION - B1, B2, B3



PITTWATER CO.
APPROVED DEVELOPMENT CO.

DETAIL SECTION B



DETAIL SECTION C

**ALL STEELWORK TO BE HOT DIPPED
GALVANISED TO AS4680 & OVER PAINTED
TO SUIT SEVERE MARINE EXPOSURE**

**THESE PLANS MUST BE READ
IN CONJUNCTION WITH THE CONDITIONS
OF THE DEVELOPMENT CONSENT**

NO.	REVISED	DATE	BY	CHKD	DESCRIPTION

SCALE: 1:50 PVS 2M 3000

DATE: 11-10-14

APP'D: MRC

Mr & Mrs. E. WHITTLETON

BROWN

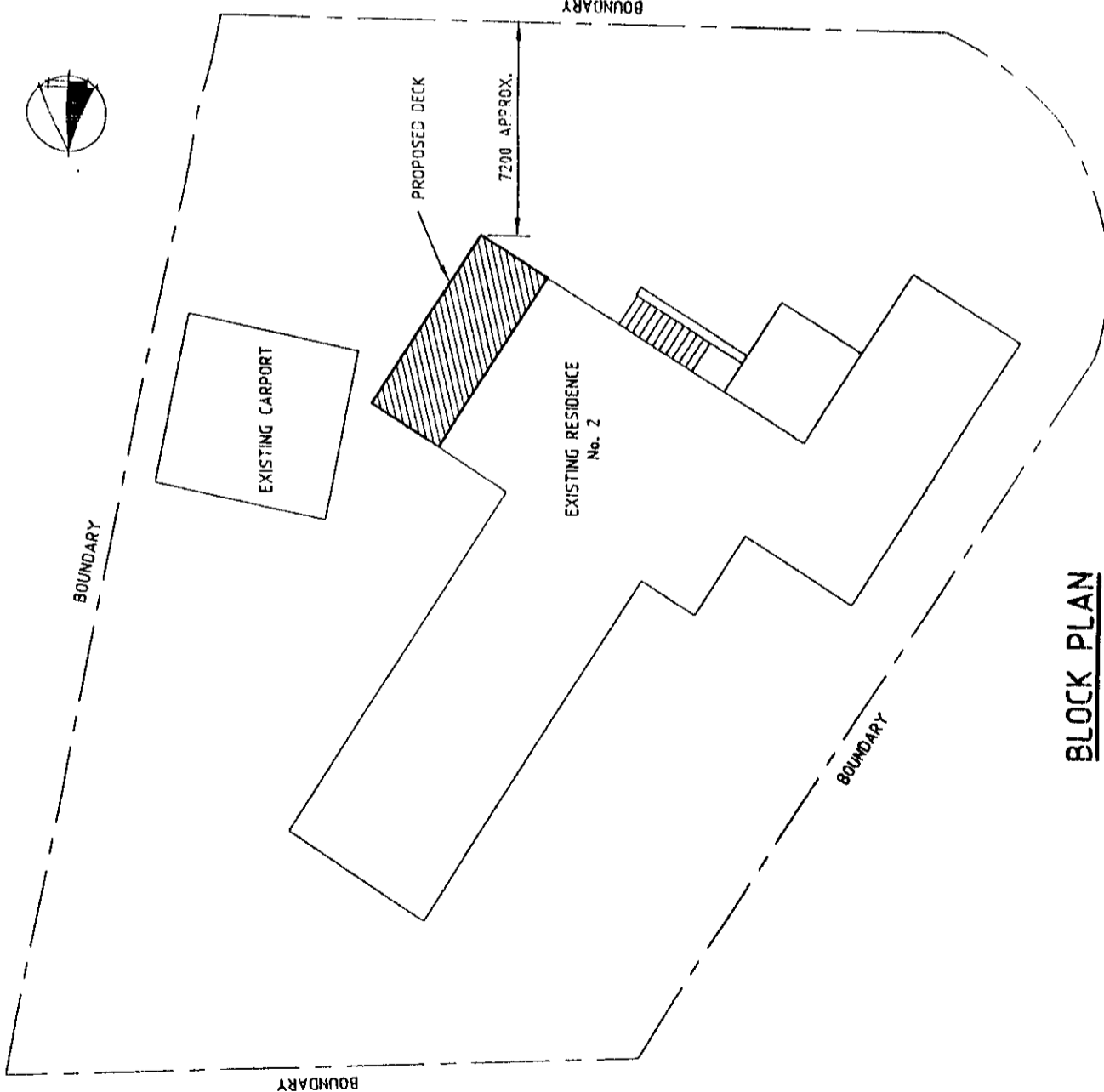
384/44

PROPOSED DECK AT
No. 2 BILGOLA AVE.
BILGOLA BEACH

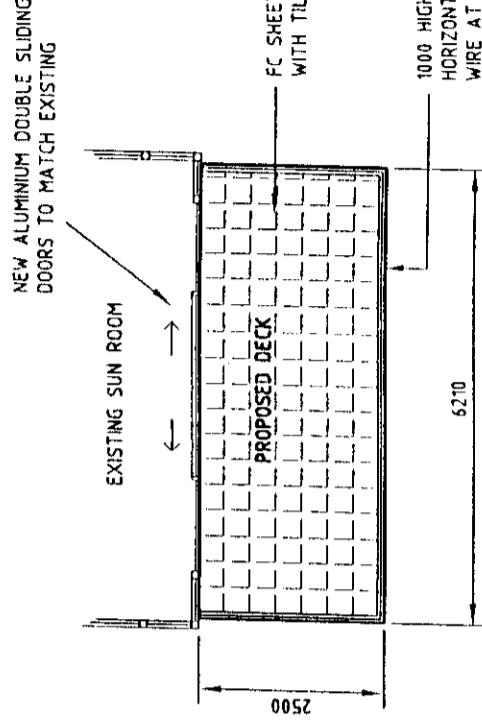
STEELWORK DETAILS

COUNCIL COPY

COPY



BILGOLA AVE.



WARNING

PLEASE NOTE: The stamping of this plan by Insight Development Consultants Pty Ltd does not relieve the Applicants responsibility to obtain approval from Sydney Water or other utilities prior to the commencement of any works.

Dial Before You Dig 1100

NO OTHER PLANS MUST BE READ IN CONNECTION WITH THE CONDITIONS OF CONSENT

insight development consultants pty ltd

CONSENT NO. No 789/04 DATE 20/12/2004

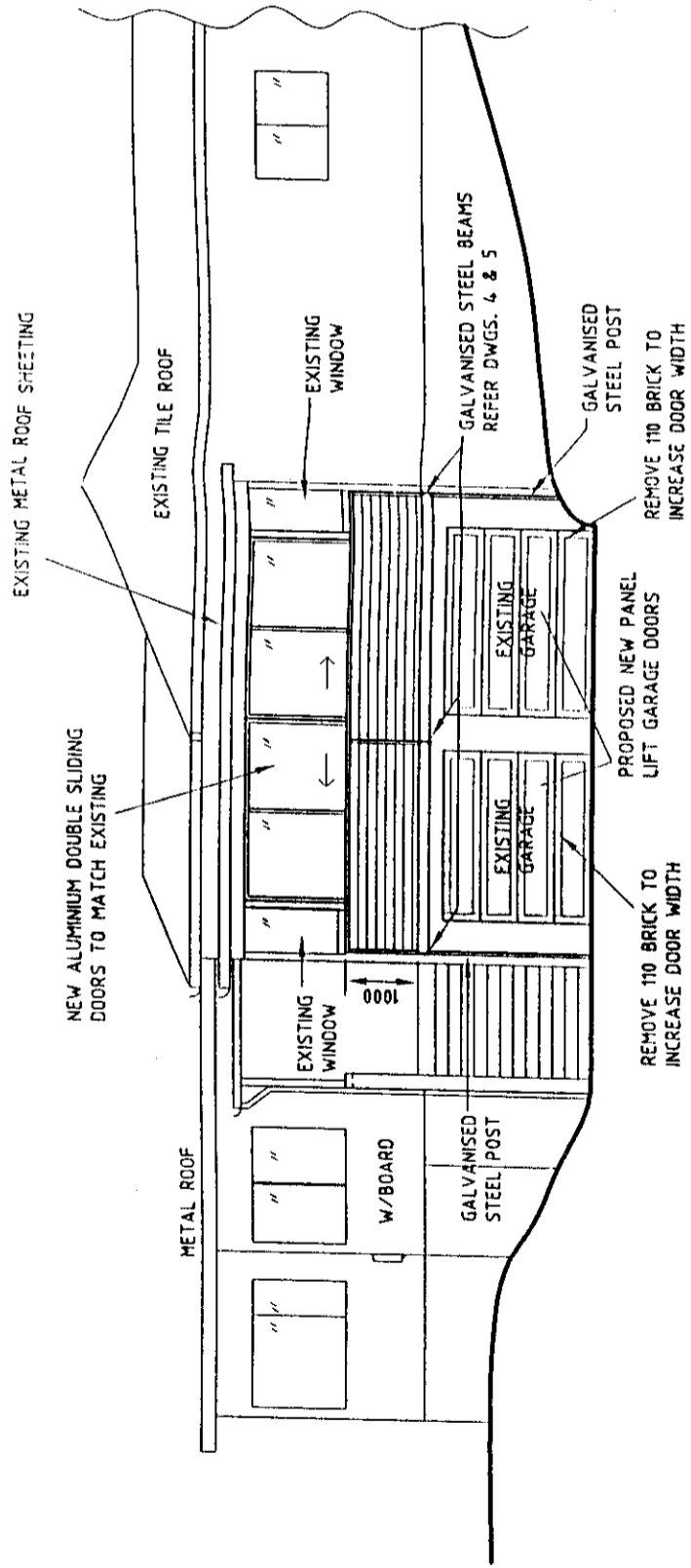
CONSTRUCTION CERT. NO. 2005/455

CONSTRUCTION CERTIFICATE PLANS

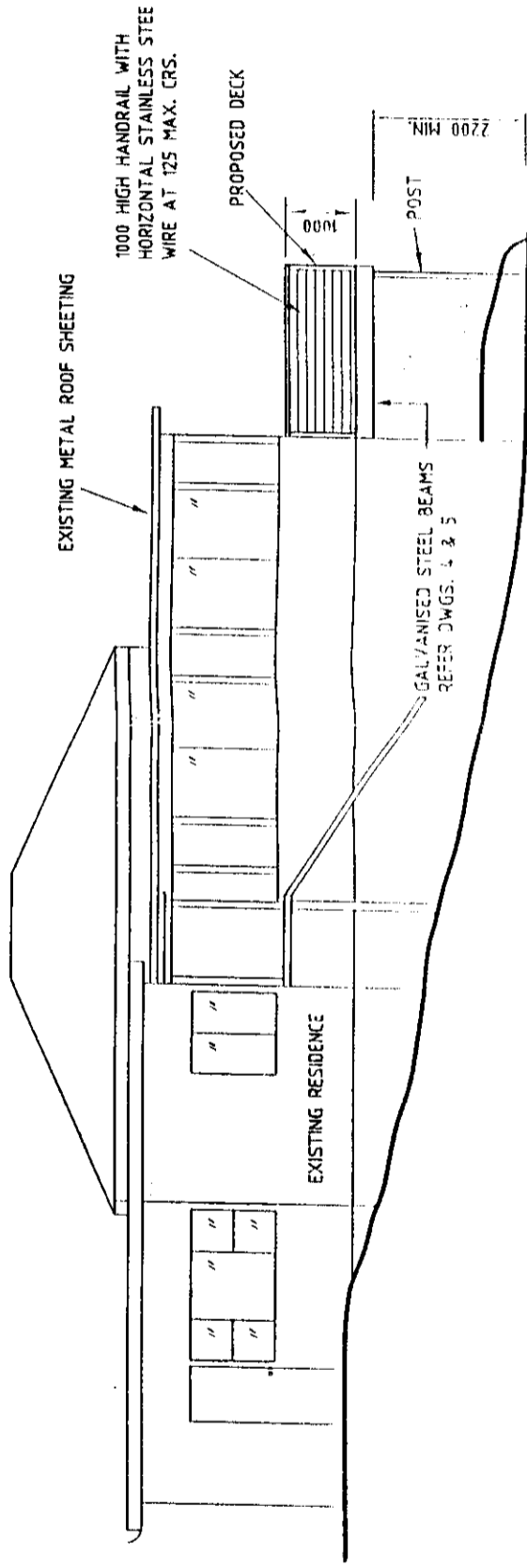
SL 28 JAN 2005

S Pinn Accreditation No. P00 40

DRAWN		DATE	
CHECKED		DATE	
APPROVED		DATE	
PROJECT			
Mr & Mrs E WHITTLETON			
PROPOSED DECK AT			
No. 2 BILGOLA AVE			
BILGOLA BEACH			
SITE PLAN			
REVISION	DATE	BY	NO.
			3



EAST ELEVATION



SOUTH ELEVATION

NOTE: THESE PLANS MUST BE READ
IN CONJUNCTION WITH THE CONDITIONS
OF DEVELOPMENT CONSENT

WATER CO
DEVELOPMENT C

31 RW EPS/1500H HANDRAIL METAL REVISION A 1 RW EPS/1500H HANDRAIL METAL REVISION DATE: 20/11/2011 DATE: 20/11/2011	
APPROVED: [Signature] DATE: 18-11-11	DRAWN: [Signature] DATE: 18-11-11
CLIENT: Mr & Mrs. E. WHITTLETON	
BROWN PROPOSED DECK AT No. 2 BILGOLA AVE BILGOLA BEACH	
ELEVATIONS	
PROJECT NO: XC4092-2	
SHEET NO: 3	

CONSTRUCTION NOTES

- C1 ALL WORKSHOPS AND MATERIALS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION. APPROVAL WILL COVER STRUCTURAL CONTENT ONLY.
C2 CONCRETE QUALITY: ALL REQUIREMENTS OF THE ASCE CONCRETE SPECIFICATION DOCUMENT 31 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.
C3 PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3600
C4 NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
C5 CONCRETE STRENGTH AND COVER - REFER TO RELEVANT DRAWING
C6 CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
C7 DEPTH OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
C8 FOR CHAMFERS, DRIP GROOVES, REGLETS, ETC. REFER TO ARCHITECT'S DETAILS.
C9 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
C10 CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISHES ARE PROPOSED. POLYETHYLENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.
C11 FORMWORK TO REMAIN IN POSITION FOR A MINIMUM OF 14 DAYS U.N.O. WHERE SLABS AND BEAMS ARE TO SUPPORT BRICKWORK OVER. FORMWORK AND PROPS MUST BE REMOVED PRIOR TO COMMENCEMENT OF THIS BRICKWORK.
C12 ALL CONCRETE TO BE MECHANICALLY VIBRATED AND THE VIBRATOR SHALL NOT BE USED TO SPREAD CONCRETE.
C13 CONDUITS, PIPES, ETC. MUST NOT BE PLACED IN CONCRETE COVER AND CAN ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS
C14 REINFORCEMENT SYMBOLS:
- DENOTES MAIN WIRES OF RECTANGULAR FABRIC TO AS 4471
- DENOTES SQUARE FABRIC TO AS 4471
- DENOTES LIMITS OF AREAS COVERED BY BARS
- DENOTES BAR
- DENOTES GRADE DS08L REINFORCING SQUARE FABRIC TO AS 4471
- DENOTES GRADE DS08L REINFORCING RECTANGULAR FABRIC TO AS 4471
- DENOTES GRADE DS08 NOT ROLLED PLAIN BARS TO AS 1302
- DENOTES GRADE DS08B BARS TO AS 4471
C15 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY. IT IS NOT NECESSARILY IN TRUE PROJECTION.
C16 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN AND SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT. FOR FABRIC THE OUTMOST WIRES SHOULD BE OVERLAPPED BY AT LEAST THE SPACING OF THESE OUTERMOST WIRES PLUS 25mm.
C17 WELDING OF REINFORCEMENT WILL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWING.
C18 BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF THE WIRE.
C19 ALL UNSUPPORTED BARS SHALL BE TIED IN A TRANSVERSE DIRECTION WITH #12 AT 400 CTS.
C20 PROVIDE UPWARD CAMBER TO FORMWORK OF CANTILEVERS OF L/20, WHERE L IS THE SHORTEST PROJECTION BEYOND COLUMN OR WALL FACE AND TO FORMWORK OF SLABS WHERE NOTED ON PLAN. MAINTAIN THE SLAB AND BEAM DEPTHS SHOWN.
C21 ALL REINFORCEMENT TO BE ACCURATELY PLACED IN POSITION SHOWN TIED AND ADEQUATELY SUPPORTED TO GIVE SPECIFIED COVER.
C22 NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ALLOWED.
FORMWORK
F1 DESIGN AND CONSTRUCTION AND STRIPPING TIMES TO COMPLY WITH AS 3610 AND AS 3600 UNLESS OTHERWISE APPROVED BY THE ENGINEER.
F2 DURING CONSTRUCTION SUPPORT PROPPING WILL BE REQUIRED WHERE LOADS FROM STACKED MATERIALS, FORMWORK AND OTHER SUPPORTED SLABS EXCEED THE DESIGN LOADS IN A SLAB OR BEAM WHICH EXCEEDS THE DESIGN LOAD FOR STRENGTH OR SERVICEABILITY AT THAT AGE. ONCE THE NOMINATED 28 DAY STRENGTH HAS BEEN ACHIEVED THESE LOADS SHALL NOT EXCEED THE DESIGN SUPERIMPOSED LOADS SET OUT ON THE DRAWINGS.
F3 IT IS ANTICIPATED IN MULTISTORY CONSTRUCTION THAT PROPPING WILL BE USED AT LEAST 3 LEVELS BELOW THE FLOOR BEING CAST. PROP REMOVALS TO BE PROGRAMMED TO AVOID DISTURBANCE TO PREVIOUSLY CAST FLOORS. REINFORCING OR BACKPROPPING IS SUBJECT TO THE APPROVAL OF THE PROJECT DESIGN ENGINEER.
F4 THE FORMWORK SHALL NOT BE DESIGNED TO RELY ON REINFORCEMENT OR SUPPORT FROM THE PERMANENT STRUCTURE WITHOUT PRIOR APPROVAL FROM THE PROJECT DESIGN ENGINEER.
F5 FORMWORK TO BE DESIGNED TO ACCOMMODATE MOVEMENTS DUE TO POST-TENSIONING.
F6 THE DESIGN CERTIFICATION & PERFORMANCE OF THE FORMWORK AND FALSE WORK IS THE RESPONSIBILITY OF THE BUILDER.

FOUNDATIONS

- F1 ALL RESIDENTIAL FOOTINGS TO BE CONSTRUCTED IN ACCORDANCE WITH AS 2870 CURRENT EDITIONS.
F2 ALL FOUNDATION MATERIAL AND SUBGRADE PREPARATION TO BE IN STRICT ACCORDANCE WITH THE GEOTECHNICAL REPORT.
F3 FOOTINGS HAVE BEEN DESIGNED TO BEAR ON BEARING CAPACITY WITH AN ALLOWABLE BEARING INTENSITY OF
F4 THE BUILDER SHALL OBTAIN APPROVAL OF THE FOUNDATION MATERIAL BEFORE PLACING CONCRETE.
F5 FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE.
F6 DO NOT BACKFILL BEHIND:
(A) CANTILEVER RETAINING WALLS BEFORE THEY REACH THEIR REQUIRED DESIGN STRENGTH.
(B) PROPPED RETAINING WALLS UNTIL FLOOR CONSTRUCTION AT TOP AND BOTTOM IS COMPLETED.
ENSURE FREE DRAINING BACKFILL AND DRAINAGE IS IN PLACE.
F7 FOOTINGS TO BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION TO AVOID SOFTENING OR DRYING OUT BY EXPOSURE.

STRUCTURAL STEELWORK

- S1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 & AS 1554 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
S2 UNLESS NOTED OTHERWISE ALL STEEL SHALL BE IN ACCORDANCE WITH AS 3478 & AS 3479 GRADE 550.
S3 TWO COPIES OF WORKSHOP DETAILS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION. APPROVAL WILL COVER STRUCTURAL CONTENT ONLY.
S4 BOLT DESIGNATION
4.6/5 COMMERCIAL BOLTS OF GRADE 4.6 TO AS 1111-SMUG TIGHTENED.
8.8/5 HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 SHUG TIGHTENED.
8.8/7B HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 FULLY TENSIONED TO AS 1511 AS A BEARING JOINT.
8.8/7F HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 FULLY TENSIONED TO AS 1511 AS A FRICTION JOINT WITH FACING SURFACES LEFT UNCOATED.
UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE M20 GRADE 4.6/5.
F8 AND F9 BOLTS TO BE INSTALLED USING APPROVED LOAD INDICATORS.
S5 UNLESS NOTED, ALL WELDS SHALL BE 5mm CONTINUOUS FILLET TYPE GP USING E49XX ELECTRODES - BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS TO AS 1554.
S6 UNLESS NOTED, ALL JOUSET PLATES TO BE 10mm.
S7 CONCRETE ENCASED STEELWORK SHALL BE WRAPPED IN ACCORDANCE WITH AS 4100 AND TO HAVE 50mm MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE.
S8 PROVIDE SEAL PLATES TO ALL BELLOW SECTIONS WITH BREAK-HENY HOLES IF MEMBERS TO BE NOT DIPPED GALVANISED.
S9 THE FABRICATOR SHALL PROVIDE ALL LEGATE AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND WELDER TO STEEL WHETHER OR NOT SET OUT IN THE DRAWINGS.
S10 THE BUILDER SHALL ENSURE THAT ALL STEELWORK IS PROPERLY TEMPORARILY BRACED AS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.
S11 ALL EXTERNAL STEELWORK TO BE HOT-DIPPED GALVANISED TO AS 4680 PLUS TOP COAT IN ACCORDANCE WITH THE REQUIREMENTS OF AS 1311

- C15 CONCRETE QUALITY: ALL REQUIREMENTS OF THE ASCE CONCRETE SPECIFICATION DOCUMENT 31 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.
C16 PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3600
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F6 THE DESIGN CERTIFICATION & PERFORMANCE OF THE FORMWORK AND FALSE WORK IS THE RESPONSIBILITY OF THE BUILDER.

PROPOSED DECK AT No. 2 BILGOLA AVE. BILGOLA BEACH
GENERAL NOTES STRUCTURAL
Mr & Mrs. E. WITTELETON
BROWN
APPROVED PLANS
NOTE: THESE PLANS MUST BE READ IN CONJUNCTION WITH THE CONDITIONS OF DEVELOPMENT CONSENT