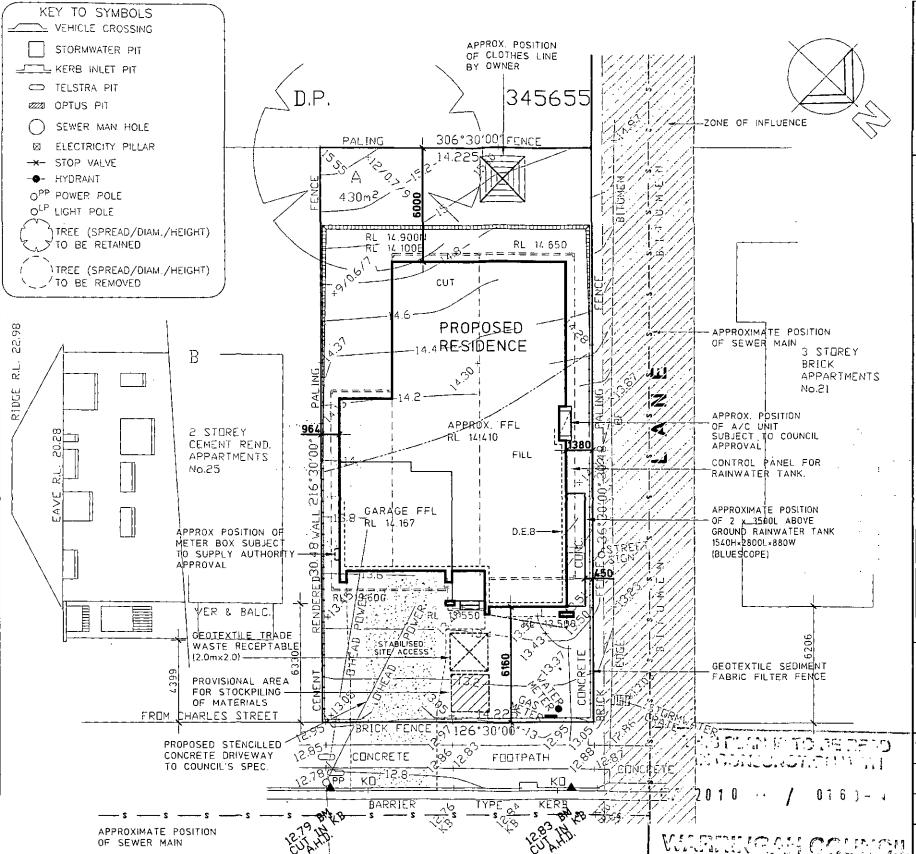


	DRAWING:	D	RAWN:	TENDER:		
1	PRESENTATION	C.R.	09.08.09	2	03.07.09	
2	ZONE OF INFLUENCE	J.U.	04.09 09			
3	COUNCIL SUBMISSION	G.D.	15.09.09	-	-	
4			:			
5						
6			-			
7			1			
8			:	ĺ		
9						
10		1				

ANY TREES APPROVED TO BE REMOVED THAT IS WITHIN THREE METRES OF THE BUILDING FOOTPRINT MUST BE REMOVED COMPLETELY BY OWNER, INCLUDING THE ROOT STRUCTURE. THE GROUND AFFECTED BY THE REMOVAL OF THE TREES MUST BE REINSTATED TO THE ORIGINAL LEVEL USING AN ACCEPTABLE FILLING MATERIAL COMPACTED IN 150mm LAYERS.



MOORE

STREET

Proposed Residence

Mrs M. SAUL For:

Lot No: A No.23 Moore Road,

Suburb: HARBORD Council: WARRINGAH

EXCAVATION & SITE NOTES

EXCAVATE TO FORM DATUM APPROX. 800mm (EXTENT OF EXCAVATION & BATTER TO BE DETERMINED ON SITE. BACKFILL 150mm AGAINST FOOT OF SLAB). SEWER CONNECTION TO AUTHORITIES REQUIREMENTS

WATER SERVICE CONNECTION FROM EXISTING METER/SERVICE TO NEW HOME IN 25mm DIAMETER PIPE.

TEMPORARY PROTECTIVE FENCING TO BLOCK TO MEET SAFETY REQUIREMENTS.

SITE LEVELS SUBJECT TO SECOND SITE INSPECTION. SUBJECT TO RESULTS OF A SURVEY TO CONFIRM HOUSE & BOUNDARY POSITIONS, SITE LEVELS & CUT/FILL PROPOSAL

SUBJECT TO POSITION OF SERVICES

ITEMS BY OWNER

RETAINING WALLS TO BE COMPLETED TO ENG'S DETAILS (IF REQUIRED). DISH DRAINS (IF NEEDED) TO AUTHORITIES' REQUIREMENTS. EXISTING TREES, STUMPS, CONC. PATHS, BUILDINGS, ETC., TO BE DEMOLISHED FROM BUILDING AREA PRIOR TO 2ND SITE INSPECTION.

NOT IN ZONE

MASTERTON'S NEW MANSION PACKAGE

CID: 36870 - Saul.dwg 30-09-2009/14.10 1:100 - GOCED

Design: VILLINA

Facade: NOUVEAU

Edition: PLATINUM

ORÁWN BY:	C.R.	09-08-09	^{J08 N₀} 36870
SHËET TITL		SITE PLAN	SHEET No. 1/6
SCÅLE:		FINAL PLAN ISSUE:	FINAL PLAN
1	CE	NEDAL NOTES	

GENERAL NOTES

Do not scale drawings use figured dimensions only. Check & verify dimension & levels prior to the commencement of any work. All discrepancies to be reported to the drafting office.

COPYRIGHT: Masterton Homes is the legal and beneficial owner of the copyright in this plan and no part of this plan may be reproduced. Unauthorised use, copying, amendment or adaption will be prosecuted.



PH: 1300 4HOMES PH: 1300 446637 Licence, No.: 35558C ABN: 52 002 873 047

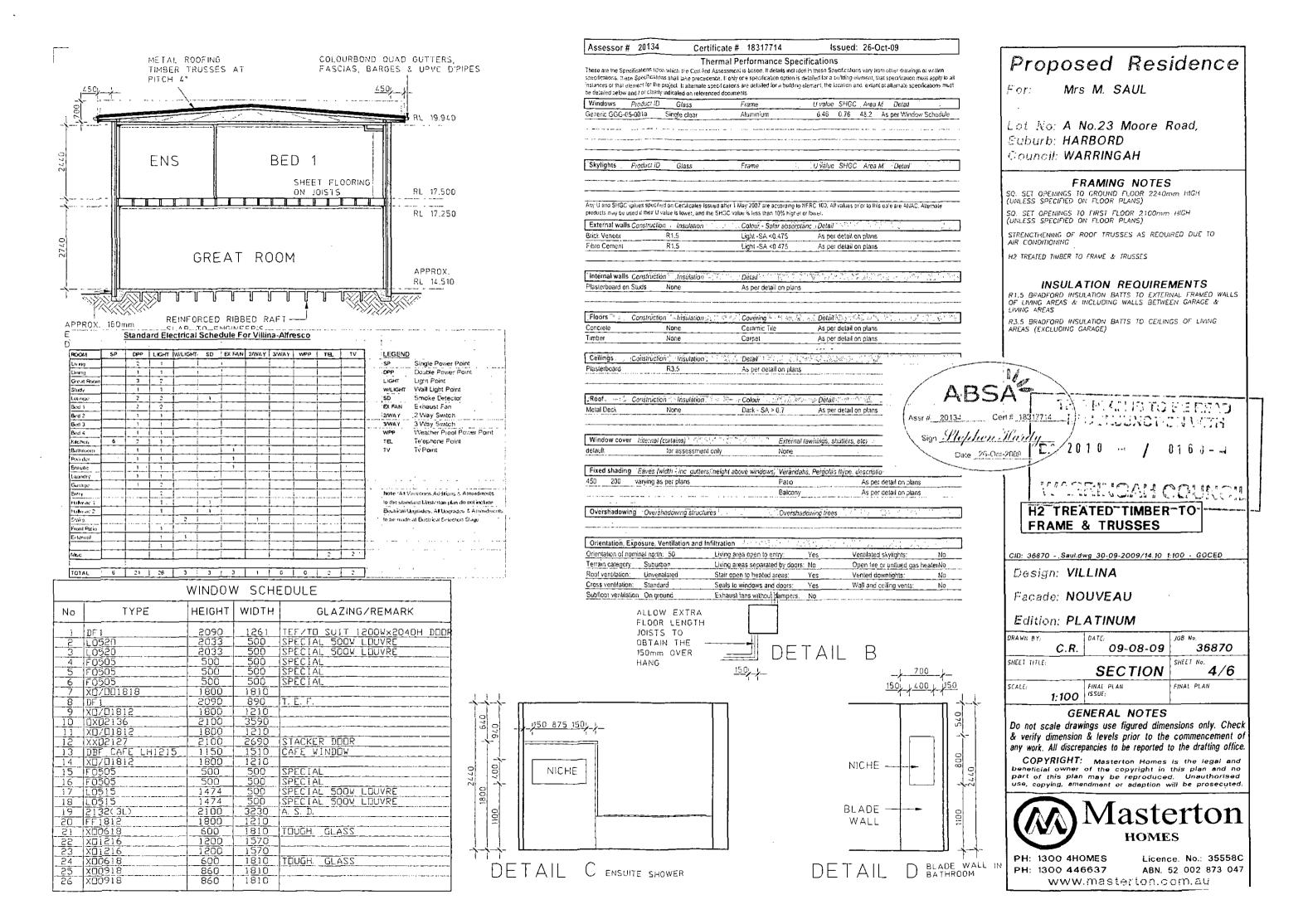
VILLINA - Nouveau 2440 CEILINGS - B.C 1012.00

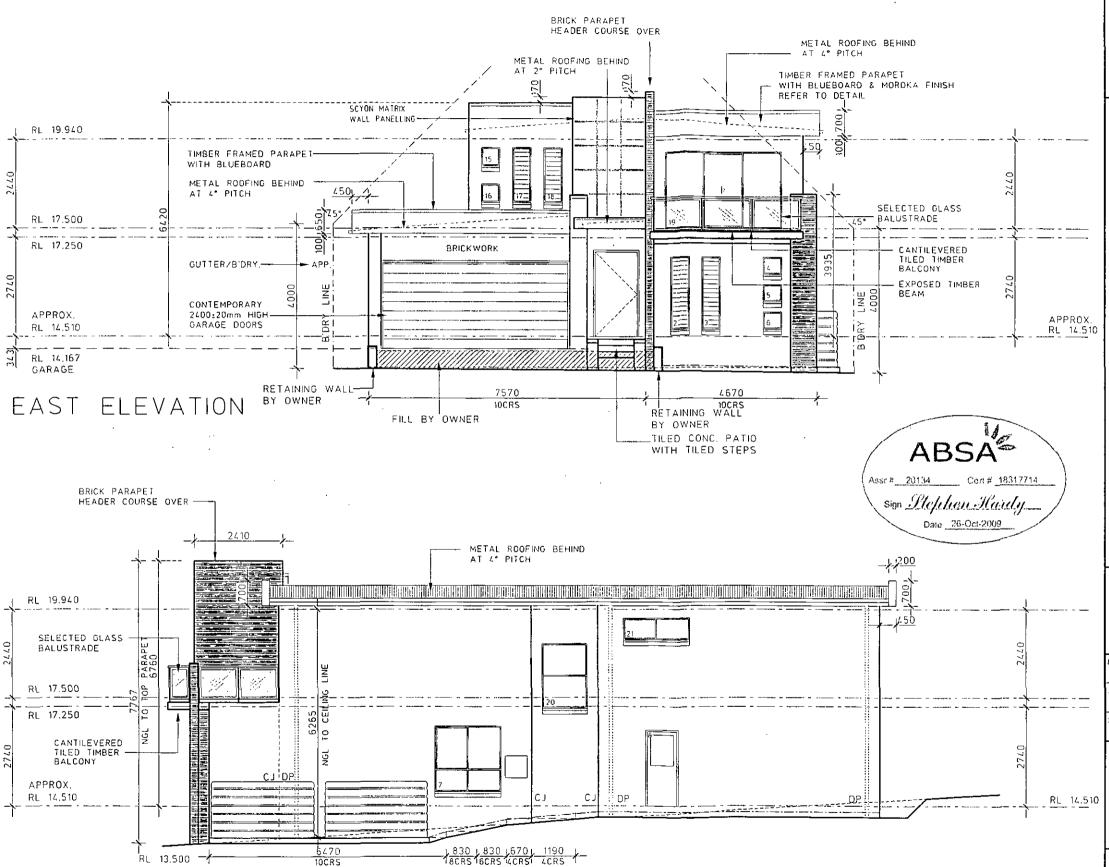
ABSA

Assr# 20134 Cer.# 18317714

sign Stephen Hardy

Date 26-Oct-2009





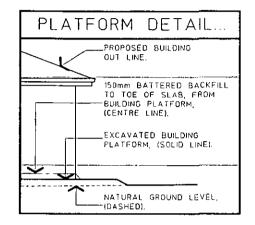
NORTH ELEVATION

Proposed Residence

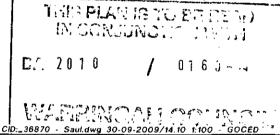
er: Mrs M. SAUL

Lot No: A No.23 Moore Road,

Suburb: HARBORD
Council: WARRINGAH



"FLASHING TO DAMPCOURSE LEVEL TO BE FINISHED FLUSH WITH OUTSIDE FACE OF BRICKWORK"



Design: VILLINA

Facade: NOUVEAU

Edition: PLATINUM

DRAWN BY:	DATE: 09-08-09	36870
SHEET TITLE: EL	EVATIONS	SHEET No. 5/6
SCALE: 1:100	FINAL PLAN ISSUE-	FINAL PLAN

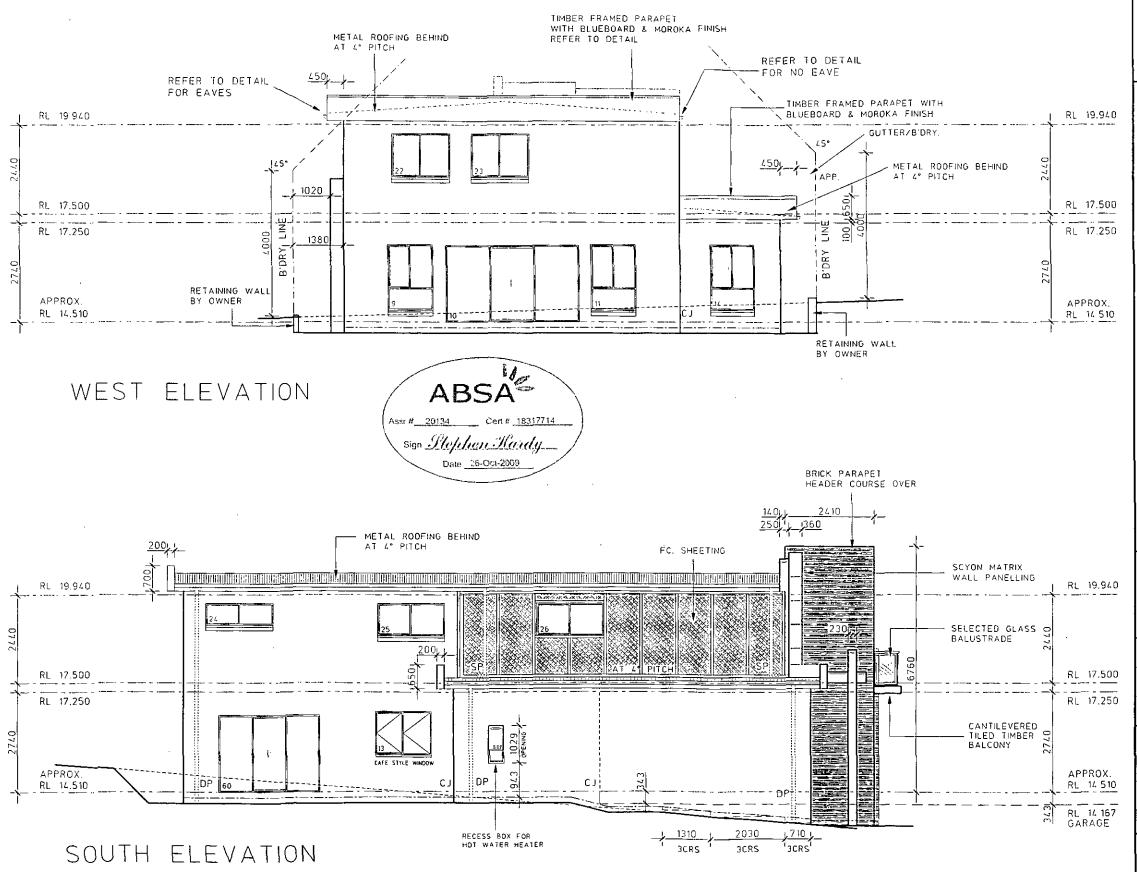
GENERAL NOTES

Do not scale drawings use figured dimensions only. Check & verify dimension & levels prior to the commencement of any work. All discrepancies to be reported to the drafting office.

COPYRIGHT: Masterton Homes is the legal and beneficial owner of the copyright in this plan and no part of this plan may be reproduced. Unauthorised use, copying, amendment or adaption will be prosecuted.



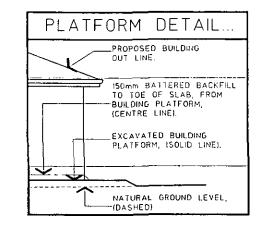
PH: 1300 4HOMES PH: 1300 446637 Licence. No.: 35558C ABN. 52 002 873 047



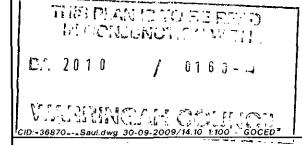
or: Mrs M. SAUL

Lot No: A No.23 Moore Road,

Suburb: HARBORD
Council: WARRINGAH



"FLASHING TO DAMPCOURSE LEVEL TO BE FINISHED FLUSH WITH OUTSIDE FACE OF BRICKWORK"



Design: VILLINA

Facade: **NOUVEAU**

Edition: PLATINUM

DRAWN BY:		DATE:	JOB No.
	C.R.	09-08-09	36870
SHEET TITLE:	EL	EVATIONS	SHEET NO. 6/6
SCALE:	1:100	FINAL PLAN ISSUE:	FINAL PLAN

GENERAL NOTES

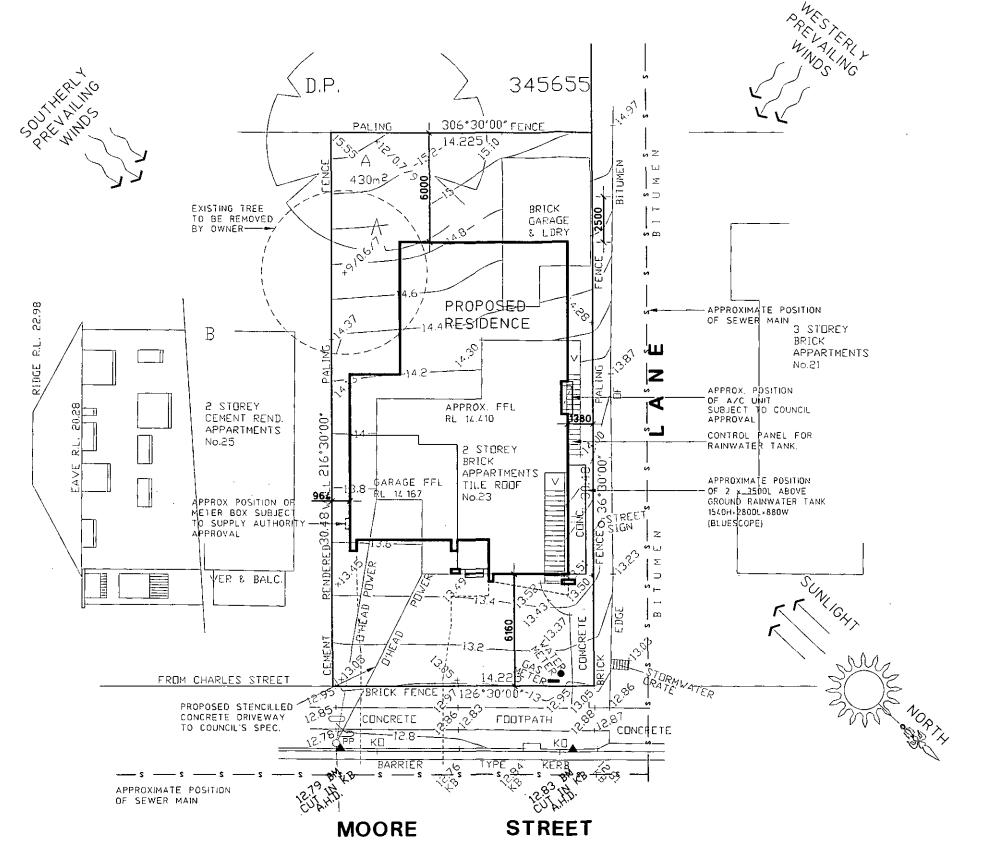
Do not scale drawings use figured dimensions only. Check & verify dimension & levels prior to the commencement of any work. All discrepancies to be reported to the drafting office.

COPYRIGHT: Masterton Homes is the legal and beneficial owner of the copyright in this plan and no part of this plan may be reproduced. Unauthorised use, copying, amendment or adaption will be prosecuted.



PH: 1300 4HOMES PH: 1300 446637

Licence. No.: 35558C ABN. 52 002 873 047

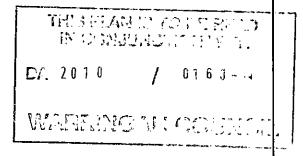


For-

Mrs M. SAUL

Lot No: A No.23 Moore Road,

Suburb: HARBORD Council: WARRINGAH



Design: VILLINA

Facade: NOUVEAU

Edition: PLATINUM

DRAWN BY:	C.R.	22.09.09	36870
SHEET TITLE	SITE	ANALYSIS	SHEET NO 1/1
SCALE:	1:200	FINAL PLAN ISSUE:	FINAL PLAN

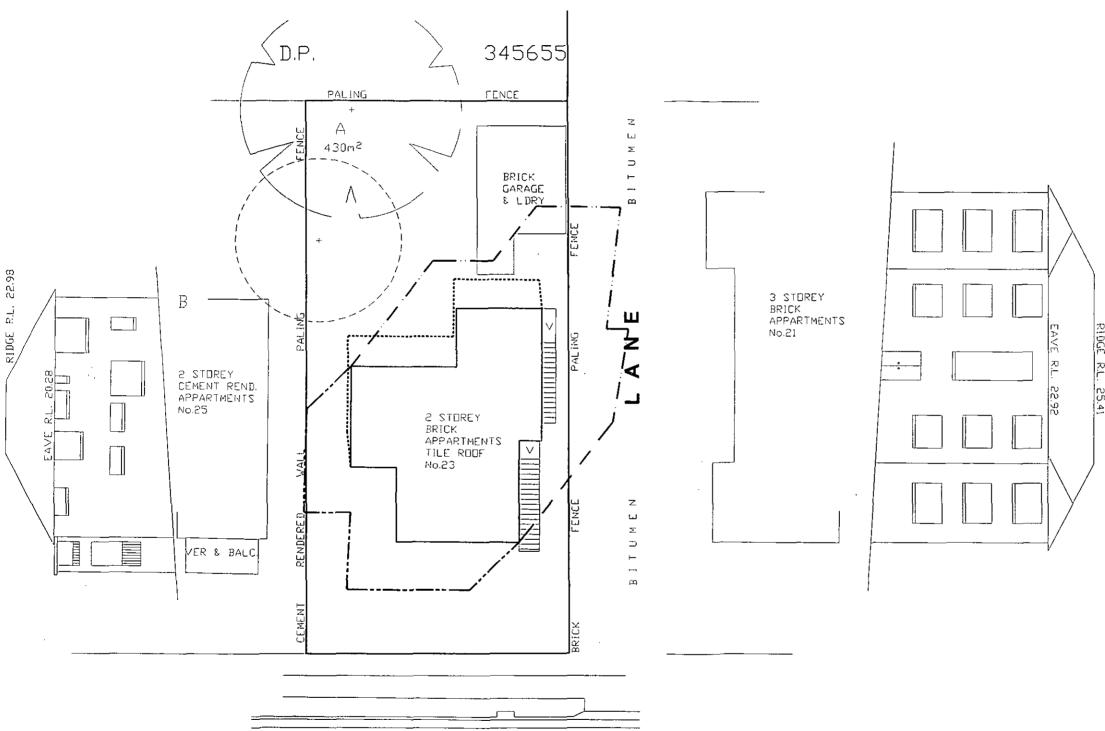
GENERAL NOTES

Do not scale drawings use figured dimensions only. Check & verify dimension & levels prior to the commencement of any work. All discrepancies to be reported to the drafting office.

COPYRIGHT: Masterton Homes is the legal and beneficial owner of the copyright in this plan and no part of this plan may be reproduced. Unauthorised use, copying, amendment or adaption will be prosecuted.



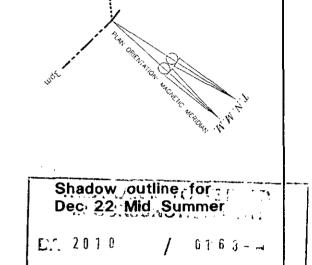
PH: 1300 4HOMES PH: 1300 446637 Licence, No.: 35558C ABN, 52 002 873 047



MOORE

STREET

Proposed Residence For: Mrs M. SAUL Lot No: A No.23 Moore Road, Suburb: HARBORD Council: WARRINGAH



Facade: NOUVEAU
Edition: PLATINUM

Design: VILLINA

C.R. 29.09.09 36870

SHEET TITLE:
EXISTING SHADOWS 1/1

SCALE: 1:200 FINAL PLAN ISSUE. FINAL PLAN

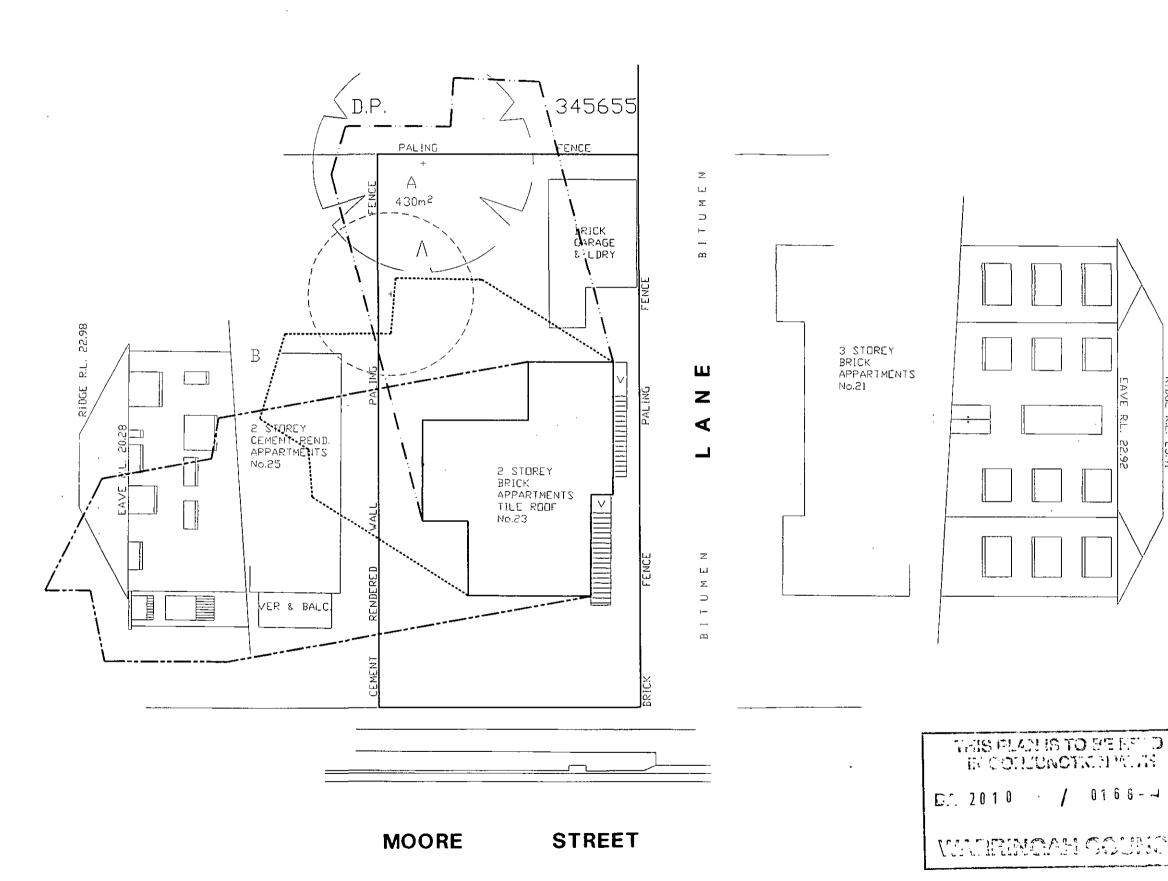
GENERAL NOTES

Do not scale drawings use figured dimensions only. Check & verify dimension & levels prior to the commencement of any work. All discrepancies to be reported to the drafting office.

COPYRIGHT: Masterton Homes is the legal and beneficial owner of the copyright in this plan and no part of this plan may be reproduced. Unauthorised use, copying, amendment or adaption will be prosecuted.



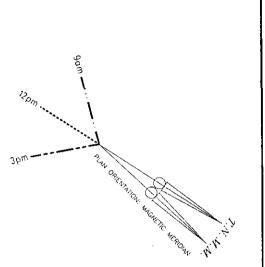
PH: 1300 4HOMES PH: 1300 446637 Licence. No.: 35558C ABN, 52 002 873 047



Mrs M. SAUL

Lot No: A No.23 Moore Road,

Suburb: HARBORD Council: WARRINGAH



Shadow outline for June 22 Mid Winter

Design: VILLINA

Facade: NOUVEAU

Edition: PLATINUM

DRAWN BY: 29.09.09 C.R. 36870 SHEET NO 1/1 SHEET TITLE:
EXISTING SHADOWS

1:200 FINAL PLAN

GENERAL NOTES

Do not scale drawings use figured dimensions only. Check & verify dimension & levels prior to the commencement of any, work. All discrepancies to be reported to the drafting office.

COPYRIGHT: Masterton Homes is the legal and beneficial owner of the copyright in this plan and no part of this plan may be reproduced. Unauthorised use, copying, amendment or adaption will be prosecuted.

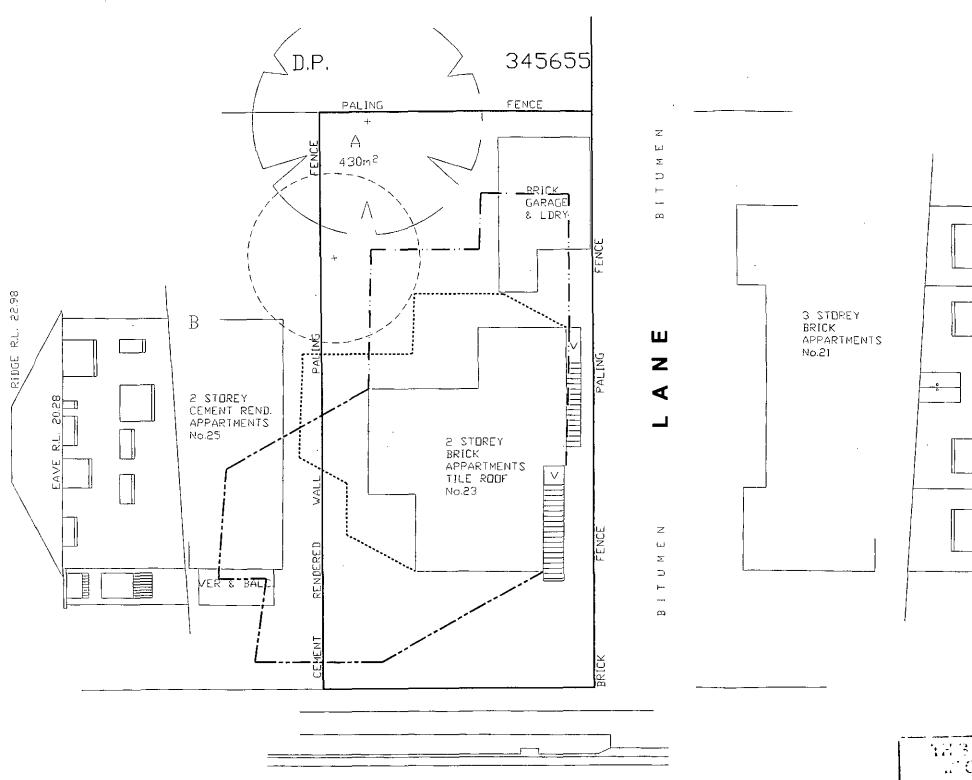


0168-~

HOMES

PH: 1300 4HOMES PH: 1300 446637 Licence. No.: 35558C ABN. 52 002 873 047

FINAL PLAN



STREET

MOORE

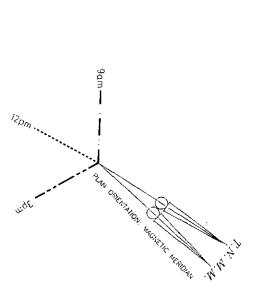
Proposed Residence

For

Mrs M. SAUL

Lot No: A No.23 Moore Road,

Suburb: HARBORD Council: WARRINGAH



Shadow outline for March21/Sep22 Equinox

Design: VILLINA

Facade: NOUVEAU

Edition: PLATINUM

DRAWN 8Y:	C.R.	29.09.09	JOB No. 36870
SHEET TITLE:	XISTI	NG DIAGRAM	SHEET NO. 1/1
SCALE:	1:200	FINAL PLAN ISSUE:	FINAL PLAN

GENERAL NOTES

Do not scale drawings use figured dimensions only. Check & verify dimension & levels prior to the commencement of any work. All discrepancies to be reported to the drafting office.

COPYRIGHT: Masterton Homes is the legal and beneficial owner of the copyright in this plan and no part of this plan may be reproduced. Unauthorised use, copying, amendment or adaption will be prosecuted.



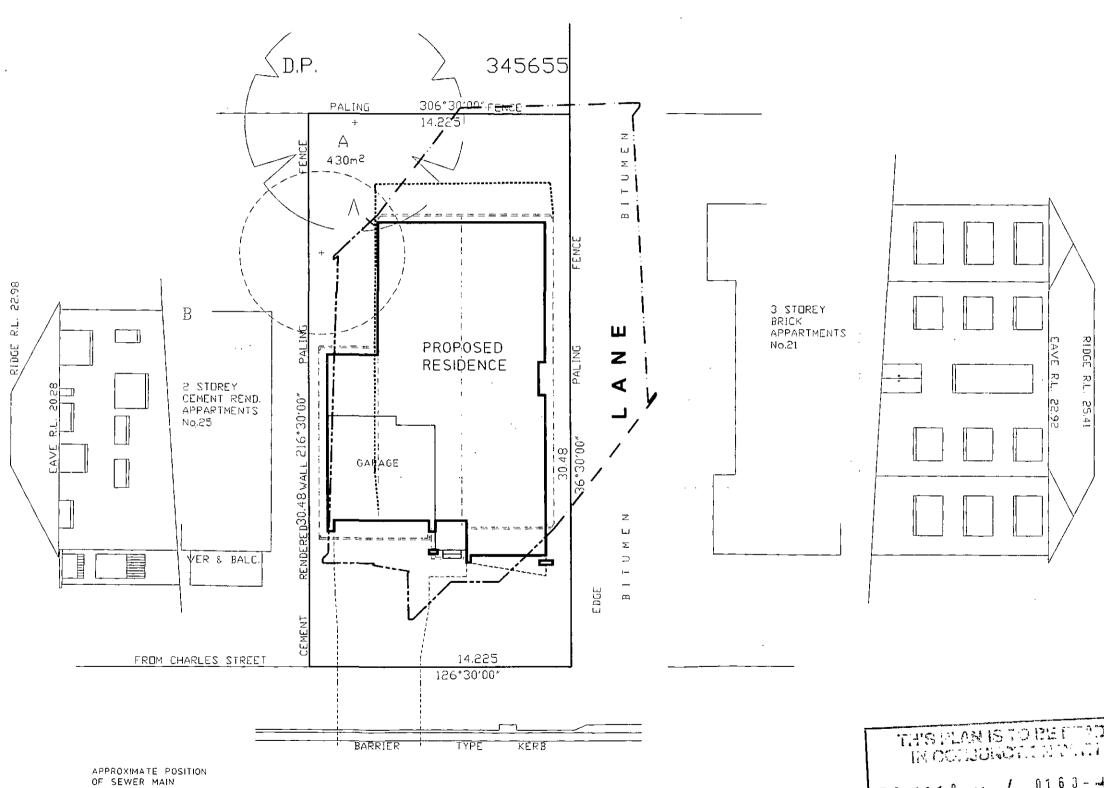
PH: 1300 4HOMES PH: 1300 446637 Licence. No.: 35558C ABN. 52 002 873 047

www.masterton.com.au

THE SELECTION OF THE LETTER OF THE CONCURSE OF THE CONCURS OF THE

EA 2010 4 / 0163-4

burn mental of the control



STREET

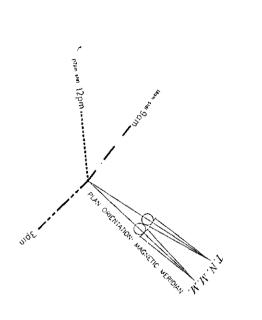
MOORE

Proposed Residence

Mrs M. SAUL

Lot No: A No.23 Moore Road,

Suburb: HARBORD Council: WARRINGAH



Dec 22 Mid Summer

Shadow outline for

Design: VILLINA

Facade: NOUVEAU

Edition: PLATINUM

29.09.09 C.R. 36870 SHEET NO 1/1 PROPOSED SHADOWS 1:200 FINAL PLAN ISSUE: FINAL PLAN

GENERAL NOTES

Do not scale drawings use figured dimensions only. Check & verify dimension & levels prior to the commencement of any_work. All discrepancies to be reported to the drafting office.

COPYRIGHT: Masterton Homes is the legal and beneficial owner of the copyright in this plan and no part of this plan may be reproduced. Unauthorised use, copying, amendment or adaption will be prosecuted.



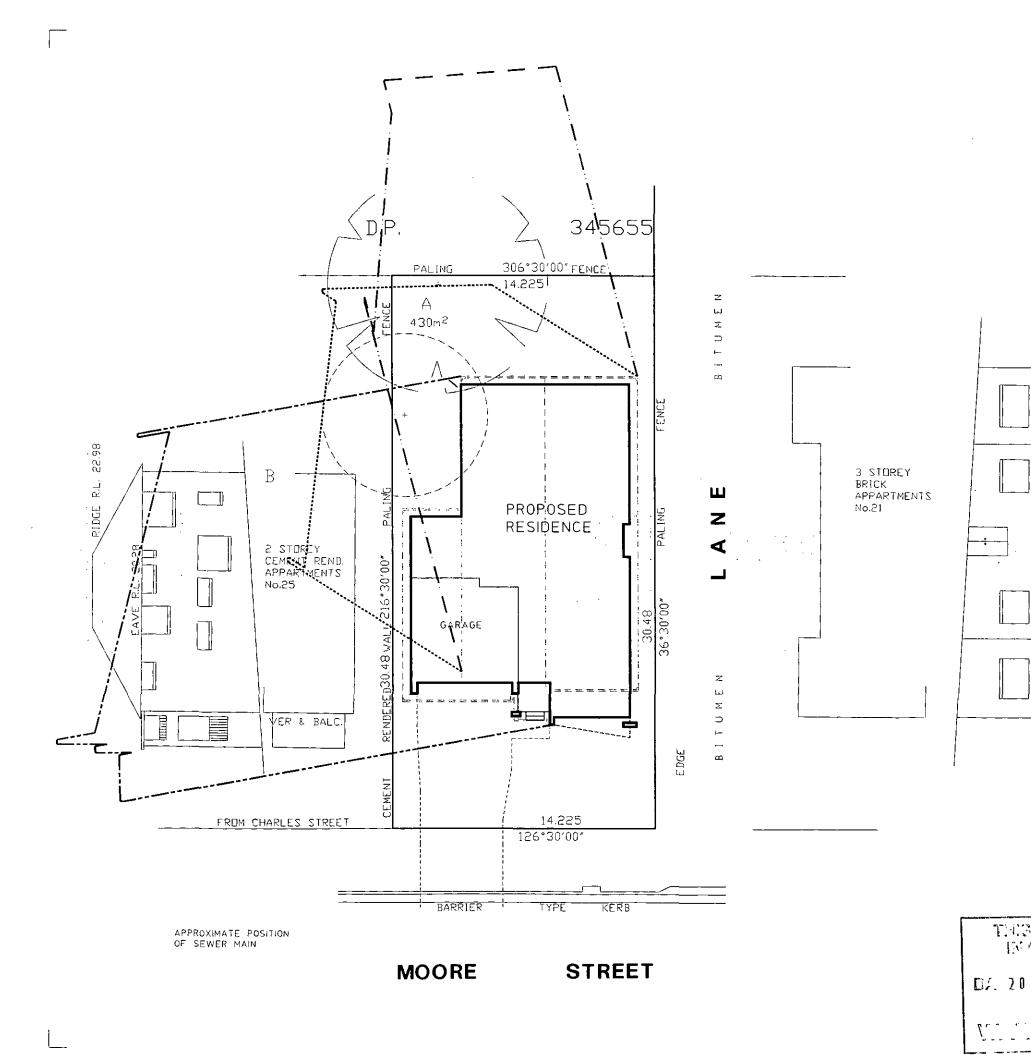
HOMES

Licence, No.: 35558C ABN. 52 002 873 047

PH: 1300 446637

www.masterton.com.au

DA 2010 - / 0163-

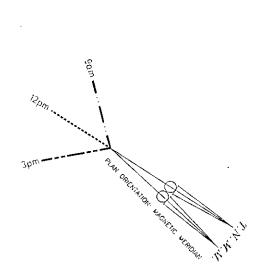


1-1-17

Mrs M. SAUL

Lot No: A No.23 Moore Road,

£uburb: **HARBORD** Council: **WARRINGAH**



Shadow outline for June 22 Mid Winter

Design: VILLINA

Façade: NOUVEAU

Edition: PLATINUM

C.R. DATE: 29.09.09 JOB No. 36870

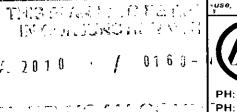
PROPOSED SHADOWS SHEET No. 1/1

1:200 FINAL PLAN FINAL PLAN ISSUE:

GENERAL NOTES

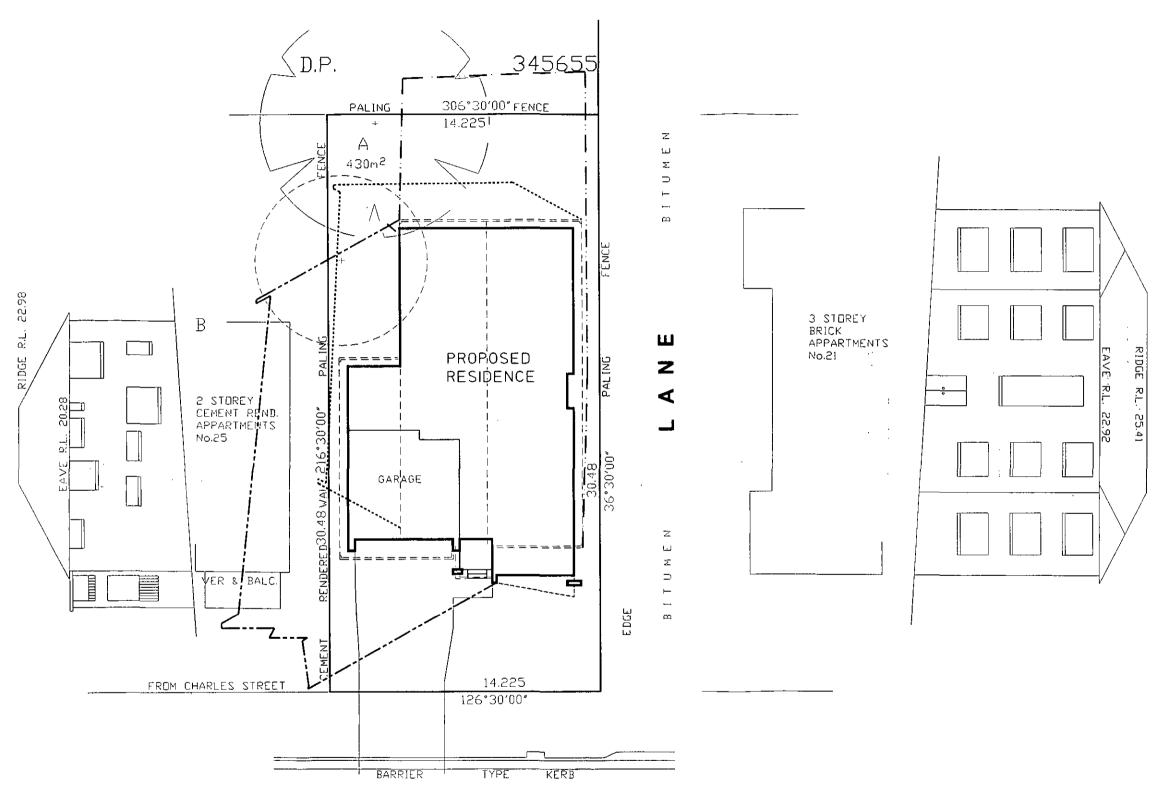
Do not scale drawings use figured dimensions only. Check & verify dimension & levels prior to the commencement of any work. All discrepancies to be reported to the drafting office.

COPYRIGHT: Masterton Homes is the legal and beneficial owner of the copyright in this plan and no part-of this plan may be reproduced. Unauthorised use, copying, amendment or adaption will be prosecuted.



Masterton

PH: 1300 4HOMES PH: 1300 446637 Licence. No.: 35558C ABN, 52 002 873 047



MOORE

STREET

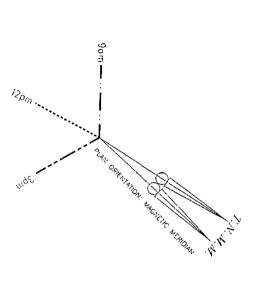
Proposed Residence

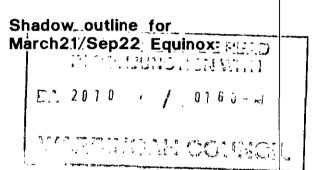
For

Mrs M. SAUL

Lot No: A No.23 Moore Road,

Suburb: HARBORD
Council: WARRINGAH





Design: VILLINA

Facade: NOUVEAU

Edition: PLATINUM

C.R. 29.09.09 36870

SHEET TITLE: PROPOSED DIAGRAM SHEET No. 1/1

SCALE: 1:200 FINAL PLAN FINAL PLAN FINAL PLAN

GENERAL NOTES

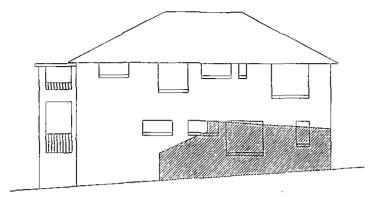
Do not scale drawings use figured dimensions only. Check & verify dimension & levels prior to the commencement of any work. All discrepancies to be reported to the drafting office.

COPYRIGHT: Masterton Homes is the legal and beneficial owner of the copyright in this plan and no part of this plan may be reproduced. Unauthorised use, copying, amendment or adaption will be prosecuted.

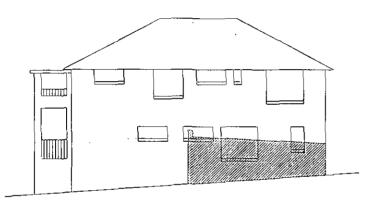


PH: 1300 4HOMES PH: 1300 446637

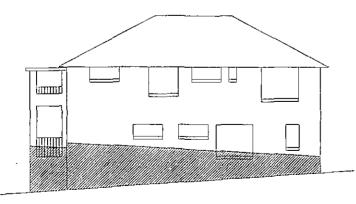
Licence. No.: 35558C ABN. 52 002 873 047



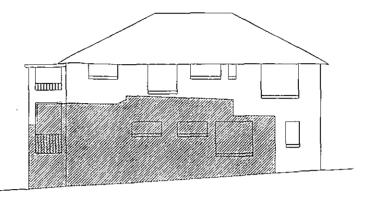
EXISTING SHADOW IN WINTER AT 12PM



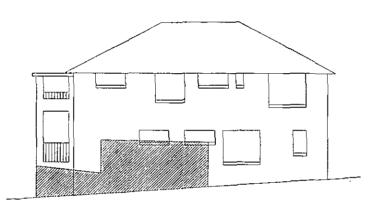
PROPOSED SHADOW IN WINTER AT 12PM



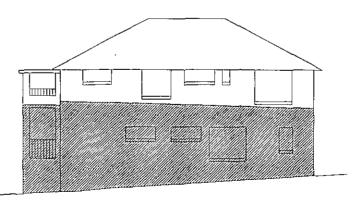
PROPOSED SHADOW IN EQUINOX AT 3PM



EXISTING SHADOW IN WINTER AT 9AM



EXISTING SHADOW IN EQUINOX AT 3PM



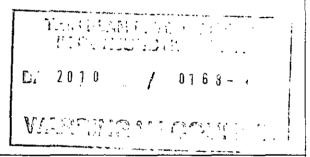
PROPOSED SHADOW IN WINTER AT 3PM

For:

Mrs M. SAUL

Lot No: A No.23 Moore Road,

Suburb: HARBORD Council: WARRINGAH



Design: VILLINA

Facade: NOUVEAU

Edition: PLATINUM

DRAWN BY:	C.R.	29.09.09	JOB No. . 36870
SHEET TITLE:	TIONA	AL SHADOWS	SHEET NO. 1/1
SCALE:	1:200	FINAL PLAN ISSUE:	FINAL PLAN

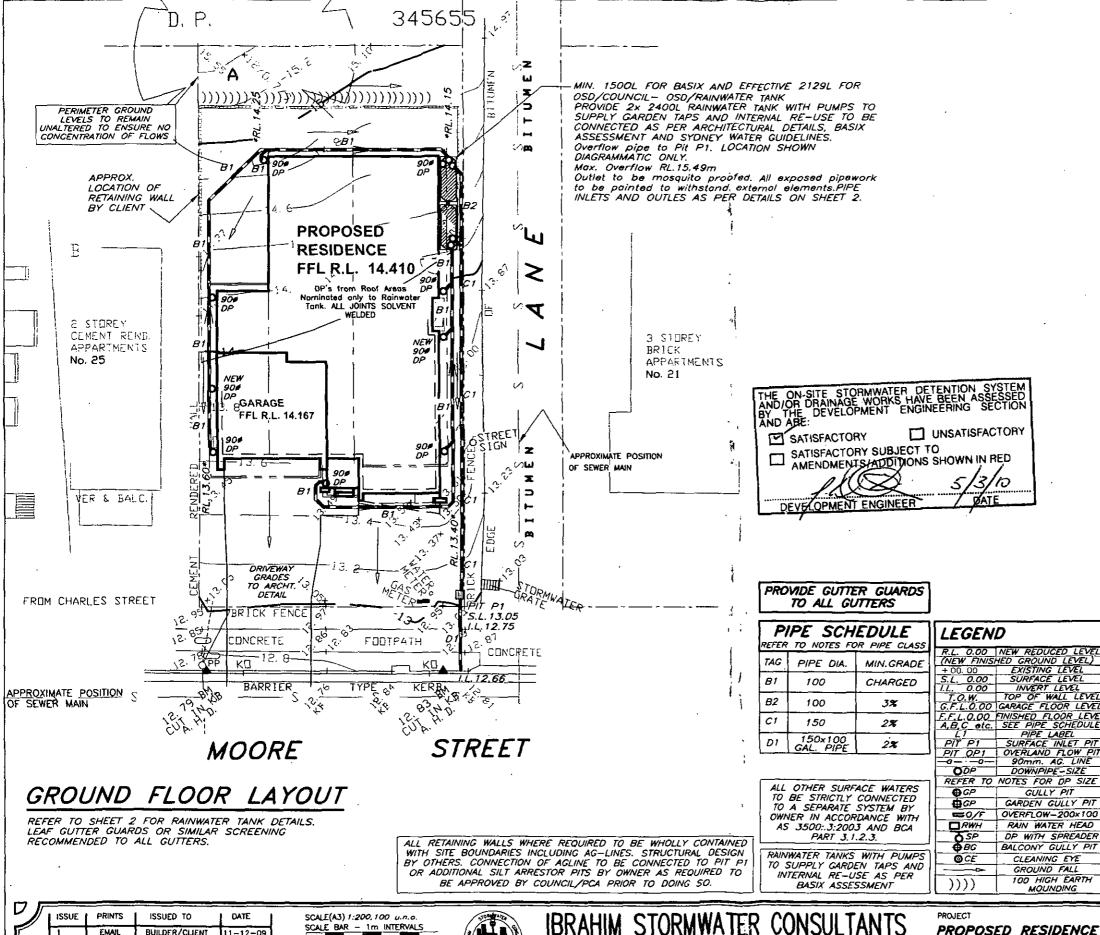
GENERAL NOTES

Do not scale drawings use figured dimensions only. Check & verify dimension & levels prior to the commencement of any work. All discrepancies to be reported to the drafting office.

COPYRIGHT: Masterton Homes is the legal and beneficial owner of the copyright in this plan and no part of this plan may be reproduced. Unauthorised use, copying, amendment or adaption will be prosecuted.



PH: 1300 4HOMES PH: 1300 446637 Licence. No.: 35558C ABN. 52 002 873 047



STORMWATER LAYOUT NOTES

-PITS UP TO 600 DEEP TO BE 450 x 450 U.N.O., PITS UP TO 900 DEEP TO BE 600 x 600 U.N.O., PITS UP TO 1200 DEEP TO BE 900 x 600 U.N.O., PITS EXCEEDING 1200 DEEP TO BE 900 SQ. U.N.O. PITS TO BE PRECAST CONCRETE OR RENDERED BRICK WITH CONCRETE HEAVY DUTY GRATES. U.N.O. LIGHT DUTY PITS AND GRATES MAY BE USED ONLY IN LIGHT/FOOT TRAFFICABLE
AREAS. U.N.O. ALL PITS TO BE BENCHED TO DISCHARGE PIPES
U.N.O. GAL. STEP IRONS TO ALL PITS EXCEEDING 900 DEPTH.
—COVER AND SUMP GRATES SHALL COMPLY WITH AS2733 &

-DOWNPIPES TO BE 90 DIA IF CHARGED AND 100 x 50 BOX IF GRAVITY. U.N.O. DE'S SHALL BE INSTALLED IN ACCORDANCE WITH AS3500.3.2:4.11 & AS4198. MAX. ROOF AREA PER DOWNPIPE IS 30SQM. WITH A QUAD 115 HI—FRONT GUTTER U.N.O.—PIPES TO HAVE 1% MIN.GRADE U.N.O. BY PIT INVERTS. PIPES TO BE V.C. CLASS 'X' OR U.P.V.C. CLASS STORMWATER PIPE TO AS 1254, 1260, 1273, 1477, 2179.2 AND WHERE EXPOSED TO DIRECT SUNLIGHT TO HAVE ADEQUATE PROTECTION TO U.V. RADIATION IN ACCORDANCE WITH AS2012. SEWER GRADE/GAL. PIPES TO USED WHERE COUNCIL POLICY OR CONSENT REQUIRE SUCH.
—GUTTER OUTLETS SHALL BE FITTED VERTICALLY TO THE SOLE OF THE EAVE GUTTERS. RAINHEADS TO HAVE AN OVERFLOW DUCT OR WEIR 50mm BELOW THEIR CREST.

PROVIDE OVERFLOW SPITTERS TO ALL COVERED BALCONIES/ TERRACES. NOT TO BE DIRECTED ON TO ROOF SURFACES
-RISING MAINS (PRESSURE PIPE) TO BE IN ACCORDANCE WITH

AS3500.1:2.
-SUBSOIL DRAINS TO BE IN ACCORDANCE WITH AS2439.1 CLASS
100 TO BE USED ONLY IN SINGLE DWELLINGS.
-ALL PIPE JOINTS TO BE IN ACCORDANCE WITH AS3500.3.2:2.7
-ALL VALVES TO BE IN ACCORDANCE WITH AS3500.3.2
-EXPANSION JOINTS SHALL COMPLY WITH AS3500.3.2:TABLE 4.1
PVC JOINTS AND ACCESSORIES TO COMPLY WITH AS2179.2 &

-ALL TRENCHES TO BE IN ACCORDANCE WITH ASJ500.3.2:7.2.8-14. EMBEDMENT MATERIAL AND TRENCH FILL TO ASJSUU.S.27.2.8—14. EMBEUMENT MATERIAL AND TRENCH FILL TO ALL PIPES & SUBSOIL, DRAINS TO BE IN ACCORDANCE WITH ASJSUO.S.2:7, ALL WORKS TO BE IN ACCORDANCE WITH AS1254, 1741, 2032, 2733, 2865, 3996, 1260, 1477, 2179.1 & 2,2566, 6367, 8301, ARR97 & BCA. —IT IS THE BUILDER'S RESPONSIBILITY TO CONFIRM THAT LEVELS

-IT IS THE BUILDER'S RESPONSIBILITY TO CONFIRM THAI LEVELS AND SURVEYS ARE IN ACCORDANCE WITH LEVELS ON SITE & ARE APPROVED BY COUNCIL & ARCHITECT BEFORE COMMENCING WORK.
-NO SEWER VENTS, GULLY PITS OR SIMILAR TO BE LOCATED.
BELOW THE MAXIMUM WATER SURFACE LEVEL IN DETENTION BASINS. ALL BASIN WALLS TO BE WATERTIGHT & STRUCTURALLY DESIGNED BY A STRUCTURAL ENGINEER.
-ALL FENCES WHICH MAY DIVERT FLOW FROM PROPOSED OURSELOWN TO BE PAISED. 100 FM.

DIRECTION TO BE RAISED 100mm.

-BUILDER TO ENSURE ALL DRAINAGE AREAS INCLUDING EXPOSED BALCONIES TO HAVE OVERFLOW MECHANISM IN PLACE IN THE EVENT OF BLOCKAGE WITH ADEQUATE OVERFLOW SECTION THROUGH PLANTERS, PARAPETS ETC.

-ALL EXTERIOR FINISHED GROUND LEVELS TO BE SLOPING AWAY

FROM PERIMETER WALLS IN ALL CASES.

-ALL HEADROOM CLEARANCES TO BE COORDINATED BETWEEN
BUILDER & ARCHITECT. NOTIFY ENGINEER FOR APPROVAL IF ANY

CHANGES OCCUR.
-ALL GULLY POSITIONS ARE DIAGRAMMATIC ONLY- BUILDER SHOULD CONSULT ARCHITECTURALS FOR DIMENSIONS TO LOCATE STORMWATER ELEMENTS U.N.O.

-FIRE RATING TO ARCHITECT'S SPECIFICATION. -ALL FINISHED FLOOR LEVELS ARE NOMINATED BY ARCHITECT. -ALL SITE SAFETY MEASURES AND WORK METHOD STATEMENTS PREPARED BY BUILDER/SUB-CONTRACTORS ARE TO BE IMPLEMENTED DURING CONSTRUCTION. NO WORK IS TO COMMENCE UNTIL ALL WORKERS CARRY OUT SITE INDUCTION, PREPARED AND UNTIL ALL WURKERS CARRY UUT SITE INDUCTION, PREPARED AND CARRIED OUT BY BUILDER. ANY HAZARD IDENTIFICATION TO BE REPORTED IMMEDIATELY TO SITE SUPERVISOR TO CARRY OUT NECESSARY PROCEDURES TO ELIMINATE HAZARD, PRIOR TO PROCEEDING WITH WORK, STRUCTURAL AND GEOTECHNICAL ADVICE

SHOULD BE SOUGHT IN ALL CASES.

-CONFINED SPACES SIGNAGE TO BE INSTALLED IN ACCESSIBLE UNDERGROUND TANKS TO WORK COVER SPECIFICATIONS. ALL PITS EXCEEDING 600mm DEPTH TO HAVE 'J' BOLTS INSTALLED TO GRATES.

-MAINTENANCE DEVICES REO'D BY AUTHORITIES ARE NOT TO BE ASSUMED SHOWN ON DRAWINGS.
-EARTH MOUNDING SHOWN AS TEMPORARY MEASURE UNTIL

LANDSCAPING COMPLETED TO DIRECT FLOWS AS SHOWN.



THIS PRAMING IS DIAGRAMMATIC DRLY A NOT TO BE SCALED IT IS NOT A PART 4A CERT. REFER TO ARCHECTIS DRAWNISS FOR DIMENSIONS, COPPRICHT IN THIS DRAWNIS IS THE PROPERTY OF BRAWNIS STORMATER CONSULTANTS AND THE ORDWING SHALL NOT BE REPRODUCED OR COHED WHOLE OR IN PART, IN ANY FORWAITHOUT THE PRICE WHITTEN APPROAL OF BRAWNIS STORMANTER CONSULTANTS

REVI	SIONS		

BUILDER/CLIENT 11-12-09 SCALE BAR - 1m INTERVALS

DATE DEC. 2009 DRAWN M./. DESIGNED M.L APPROVED



IBRAHIM STORMWATER CONSULTANTS CONSULTING CIVIL ENGINEERS

P.O. BOX 400 CHERRYBROOK NSW 2126 TELEPHONE: (02) 9980 5515 FAX: (02) 9980 6114

PROPOSED RESIDENCE AT 23 MOORE ROAD HARBORD. FOR MRS SAUL.

GULLY PIT

GARDEN GULLY PIT

RAIN WATER HEAD DP WITH SPREADER

BALCONY GULLY PIT

CLEANING EYE

GROUND FALL 100 HIGH EARTH

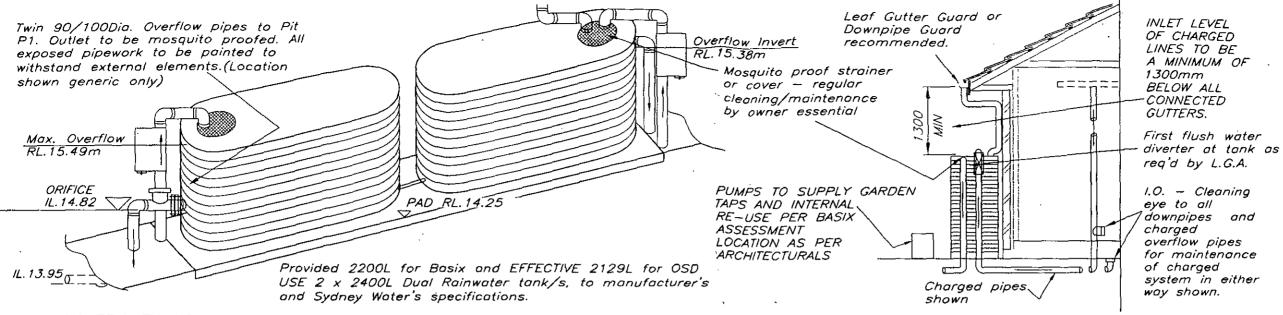
> THIS DRAWING STORMWATER LAYOUT SH.1 BUILDER MASTERTON HOMES

JOB NUMBER

M2196-36870 REVISION

SHEET No

of 2



· >

RAINWATER TANK

TANK DETAILS SHOWN ARE A SUGGESTED CONFIGURATION ONLY. ANY MODIFICATIONS TO TANK VOLUME OR INLET AND OUTLET LEVELS MUST BE APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION. TANK SHAPE, & DEVICES SHOWN ARE DIAGRAMMATIC ONLY. MINIMUM OF 450 CLEARANCE (UNLESS L.G.A. REQUIRES LARGER SETBACK) TO SIDE BOUNDARIES MUST BE MAINTAINED. CLIENT IS RESPONSIBLE TO ENSURE COMPLIANCE WITH THIS IN THE INSTALLED STATE. Charged stormwater lines from Roof Areas ONLY to rainwater tank.

All joints to be solvent welded. All exposed pipework to be painted to withstand external elements.

First flush water diverter at tank to comply with Sydney Water and council DCP's. An approved switch system similar to 'Rainbank' to be used via mains. Pumps to manuf. specs.

Rain Tank to be installed and maintainted to manufacturers specifications and to comply with all Sydney Water Guidelines.

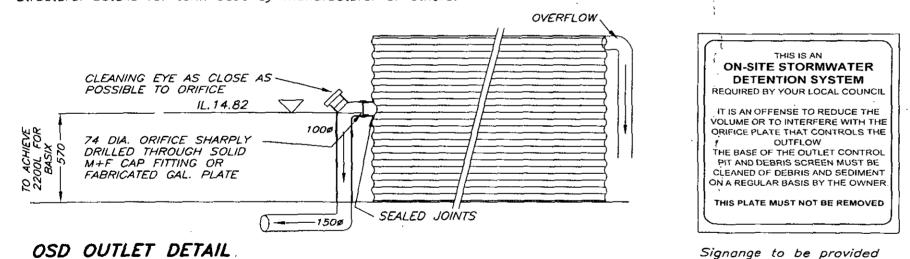
Client to be responsible for maintenance system of charged pipelines. Debris accumulation significantly affects systems performance. Maintenance program essential.

THE ON-SITE STORMWATER DETENTION SYSTEM AND/OR DRAINAGE WORKS HAVE BEEN ASSESSED BY THE DEVELOPMENT ENGINEERING SECTION AND ABE:

SATISFACTORY SUBJECT TO AMENDMENTS JADDITHONS SHOWN IN RED

■ UNSATISFACTORY

Structural details for tank base by manufacturer or others.



CALCULATIONS NOTES

Total Site Area Assessed	430	sqm
Design Method	llsax/Drain	•
Area to be routed through OSD	230	sqm
Pre Impervious Area	192	sqm
Post Impervious Area	275.78	sqm
Percentage of Impervious Area Routed Through OSD	83.4	%
Percentage of Impervious Area Bypassing OSD	16.6	%
Pre Development PSD's		
5yr ARI Discharge	. 14	L/s
100yr ARI Discharge	26	L/s
Post Development Discharge		
5yr ARI Discharge	14	IJs
100yr ARI Discharge	24	L/s
Orifice Diameter	74	mm
Volume of storage required	4.26	cu.m
50% volume of storage rebated for Raintank	2.129	cu.m

THIS DRAMING IS GIAGRAMMATIC ORLY & NOT TO BE SCALED. IT IS NOT A PART ACCERT REFER TO ARCHITECTS DRAWINGS FOR DIMENSIONS COPYRIGHT IN THIS DRAWING SIT OF PROPERTY OF BRAINM STORMS ATER COUSULTANTS AND THE DRAWING SHALL NOT BE REPRODUCED OR COPIED WHOLE OR IN PART, IN ANY FORMAWITHOUT THE PRIOR WRITTEN APPROVAL OF HERAMIS STORMANDER CONSULTANTS.

BUILDER/CLIENT TO ENSURE THAT ALL SAFETY MEASURES ARE TAKE DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, SAFETY FENCING, SIGNAGE, OBTAINING STRUCTURAL AND GEOTECHNICAL ADVICE WHERE EXCAVATIONS ARE NEAR STRUCTURES OR SERVICES, SAFETY MEASURES RECOMMENDED BY PRODUCT SUPPLIERS ETC.

KEN	REVI	SIONS		 		
1		<u> </u>	 	 	 	
5,			 	 	 	_

ISSUE	PRINTS	ISSUED TO	DATE
1	EMAJL	BUILDER/CLIENT	11-12-09
┞──┤		 	
 	***	 	╁╾─┤
h		 	

SCALE (A3) 1:200,100 u.n.o.

SCALE BAR - 1m INTERVALS

DATE DEC: 2009

DRAWN M.I.

DESIGNED M.I.

APPROVED



SATISFACTORY

DEVELOPMENT ENGINEER

IBRAHIM STORMWATER CONSULTANTS CONSULTING CIVIL ENGINEERS

P.O. BOX 400 CHERRYBROOK NSW 2126
TELEPHONE: (02) 9980 5515 FAX: (02) 9980 6114

SYSTEM Lacent tanks Size: 110 mm

PROPOSED RESIDENCE AT 23 MOORE ROAD HARBORD. FOR MRS SAUL. STORMWATER
DETAILS SH. 1
BUILDER

M2196-36870

MÄSTERTON HOMES SHE

10. R 1**f 7**

2 of 2