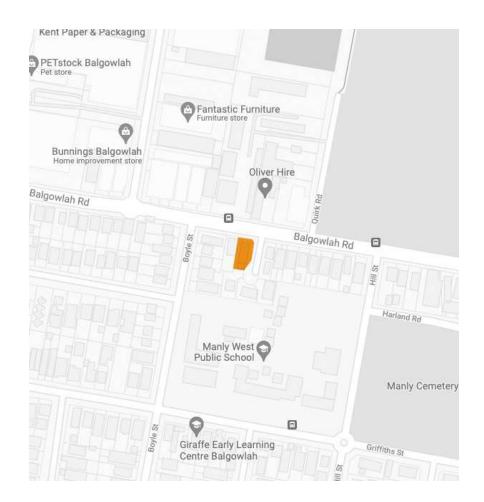
List of Abbreviations

AFFL	Above Finished Floor Level	PB	Plasterboard
AG	Agricultural Pipe	PBL	Pebble Ballast
AP	Access panel	PBM	Plasterboard Moisture Resistant
AW	Awning Window	PBF	Plasterboard or Fibre Cement Fire Rated Lining to BCA
	ů,	PWC	Plywood Panel Wall Cladding
В	Blind	PD	Planter Drain
BFD	Bifolding Glazed Doors	PL	Planter
BW	Brickwork	P	Painted
BWF	Brick work face	PR	Polycarbonate Roof ing
BWS	Brick work soldier course	PV	Paving concrete
		. •	Taking condicto
CL	Centre Line	R	Robe
CB	Concrete block reinforced if retaining wall	RH	Rangehood
CBF	Concrete Block facework	RWH	Rainwater Head
CJ	Control Joint	RWO	Rainwater Outlet
cos	Check On Site	RWT	Rainwater Tank
CPT	Carpet	RS	Rain Screen
CR	Cement Render	RTC	Roof Tile - Concrete
CS	Concrete Slab	RTT	Roof Tile - Terracotta
CT	Ceramic Tiling		
CW	Casement Window	ST	Stone
CWS	Cold Water Service	SD	Smoke Detector
		SDH	Sashless Double Hung Window
DP	Downpipe	SHR	Shower Head 2000 AFFL unless noted otherwis
DPC	Damp Proof Course	SK	Skirting
DPM	Damp Proof Membrane	SHS	Skylight
		SLD	Sliding door
EDB	Electrical Distribution Board	SLS	Sliding Louvre Screen
EGL	Existing Ground Level	SS	Steel Stainless
EJ	Expansion Joint	S	Steel
EX	Existing	SF	Steel frame
EXT	External	SP	Solar panel
		SSW	Sashless Sliding Window
FC	Fibrous Cement	STD	Strip drain
FCP	Fibrous Cement Panel	STP	Stormwater Pipe
FD	Floor Drain, cast into concrete	SW	Sandstone Wall
FFL	Finished Floor Level	SWP	Sewer Pipe
FGL	Finished Ground Level		
FG	Fixed Glazing	TBD	Timber Bi-folding Doors
FW	Floor Waste	TD	Timber Framed Doors
	11001 11 4010	TDB	Timber Decking Boards
G	Glass	TW	Timber Framed Windows
O	Oldos	TW	Timber wall cladding
HC	Hose cock	TPH	Toilet Paper Holder 500 AFFL
TIC	1 lose cock	TR	Towel Rail 850 AFFL unless noted otherwise
J	Joint	110	Tower real 600 74 T E dilless floted otherwise
		UC	Universal Steel Column
LS	Louvre Screen	U/S	Underside
LV	Louvre Vent	UG	Underground
		VB	Vapour Barrier
M	Masonry wall	VP	Vent Pipe
MA	Metal Awning		
MB	Metal Balustrade	WA	Window Awning
MR	Metal Roofing	WC	Water Closet
MS	Mild Steel	WM	Washing Machine
MW	Metal Walling	WPM	Water Proof Membrane
	Ŭ	WRC	Western Red Cedar
OP	Opaque Glazing	WS	Window Sliding
OS	Overf low Spitter	WOV	Wall Oven
OFC	Off Form Concrete	-	



Development Application Issue

for

Alteration & Addition of unit 3 and existing Garage & Strata Lot Subdivision

at

3/153 Balgowlah Rd, Balgowlah NSW

for

Austin Ware & Charlotte Vergnolle

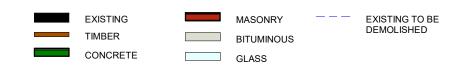
Revision Date.

11.05.2022

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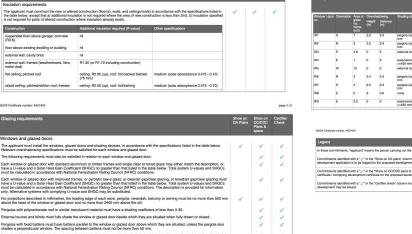
2101

Wall & Floor Legend



Basix commitments





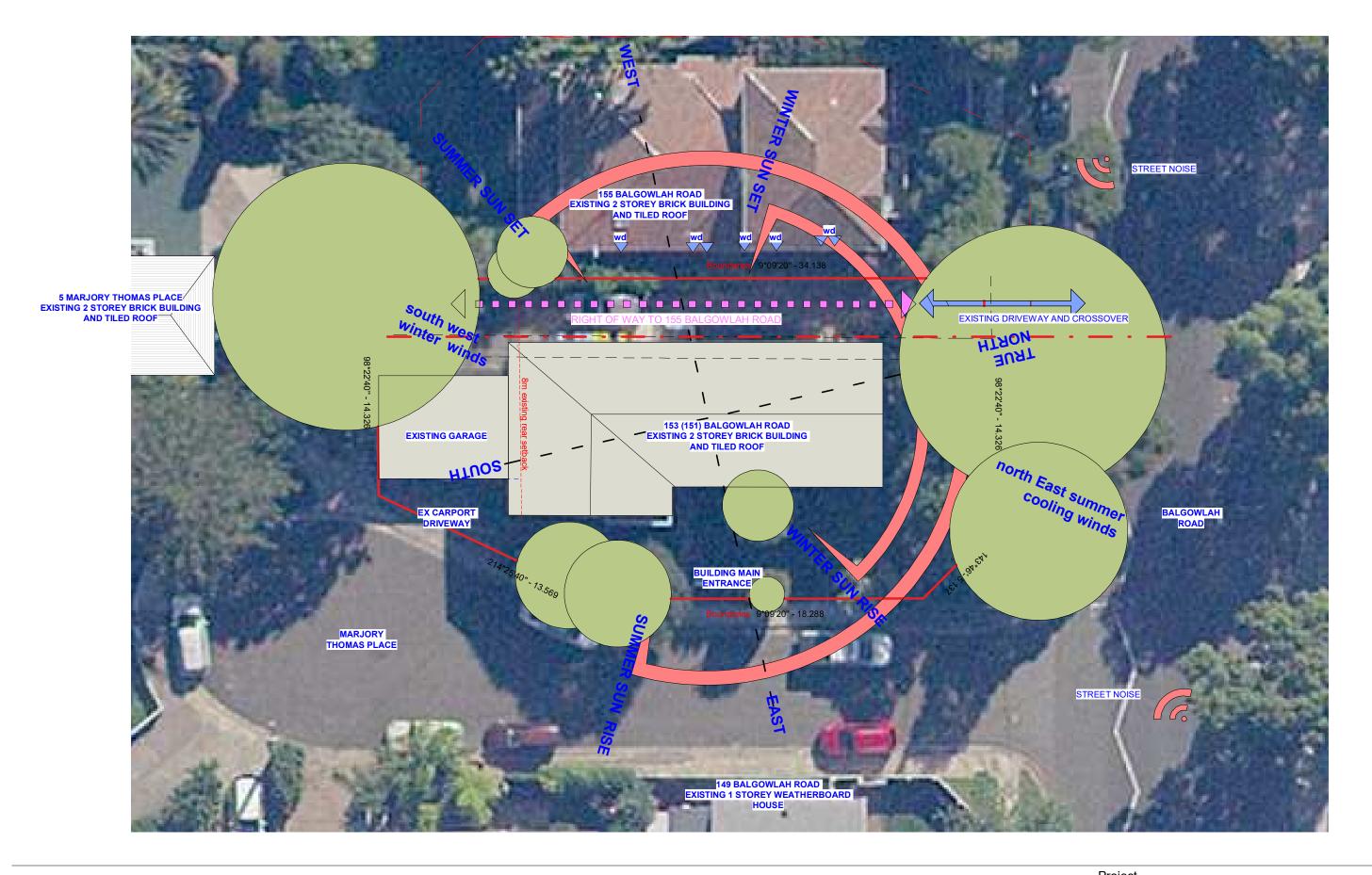
Drawing list

DA	
DA00	Cover Page
DA01	Site Analysis
DA02	Proposed Site Plan
DA03	Ground Floor Proposed plan
DA04	Level 1 proposed plan
DA05	Sections
DA06	Street Elevations & Finishes
DA07	Side Elevations & Finishes
DA08	Shadow Diagram Plan
DA09	Shadow Diagram Elevation
DA10	Landscape Plan
DA11	Area Calculation
DA12	Erosion Control Plan
DA13	Proposed Subdivision Plan
DA14	Notification Plan

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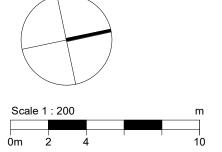
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Drawing Title

Site Analysis

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Scale at A3		F	Revision Date.
1:200			11.05.2022
Project No.	Rev No.		Drawing No.
2101		D	DA01



MARJORY THOMAS PLACE

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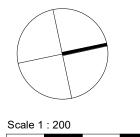
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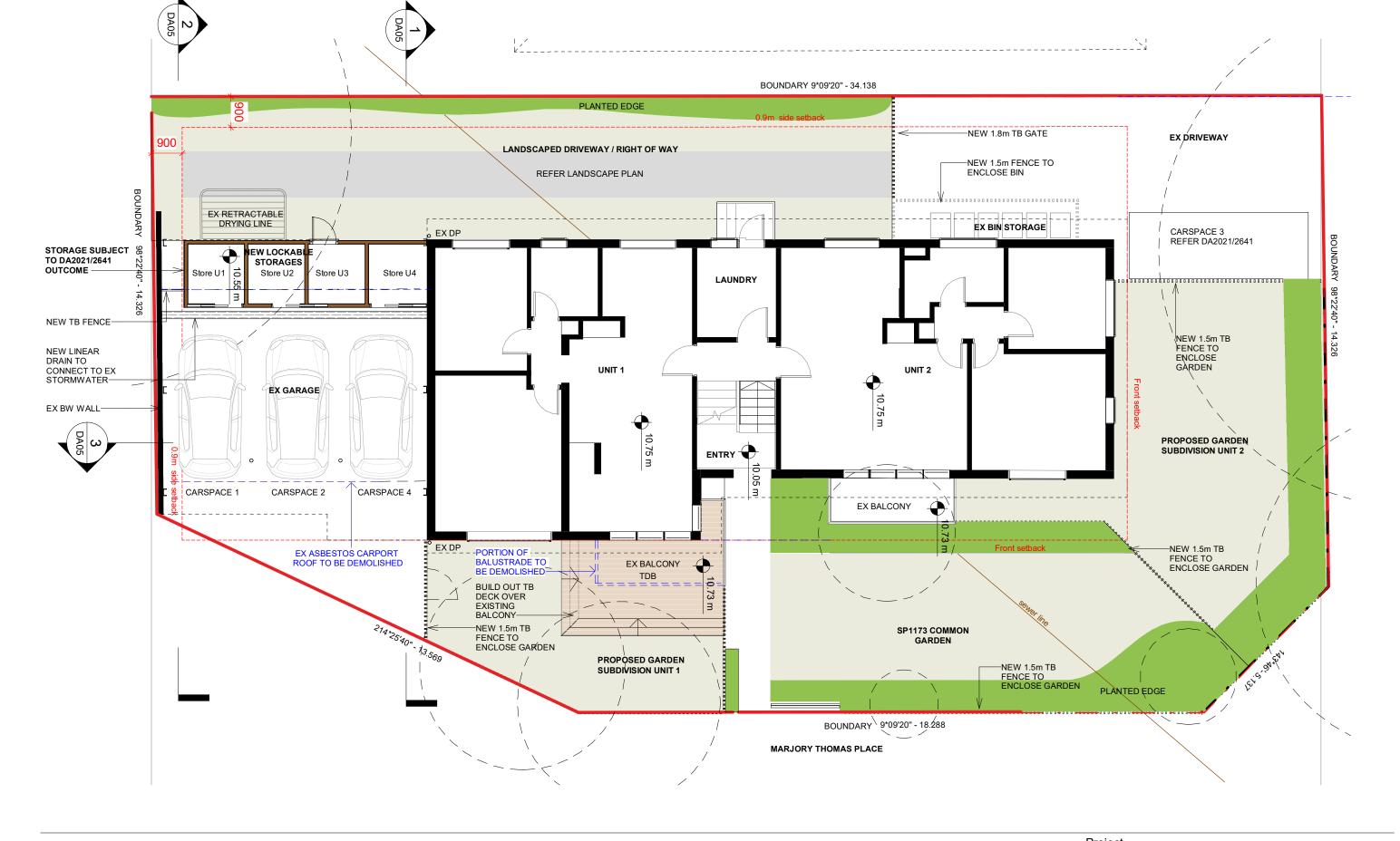
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Proposed Site Plan

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Scale at A3		Re	vision Date.
1:200			11.05.2022
Project No.	Rev No.	Dra	awing No.
2101		D	DA02



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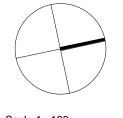
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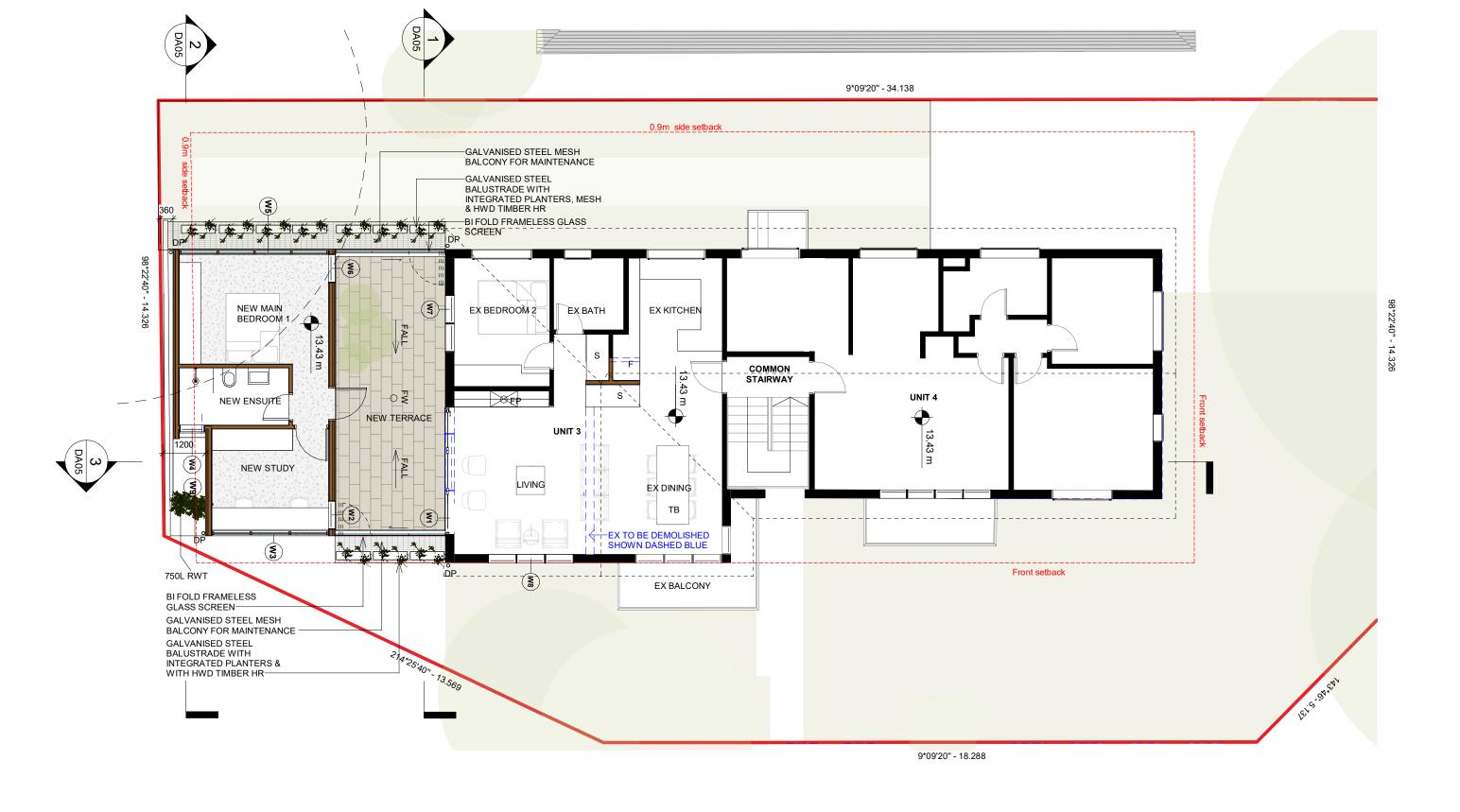


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Drawing Title

Ground Floor Proposed plan

	•		•
Scale at A3			Revision Date.
1:100			11.05.2022
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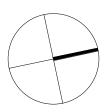
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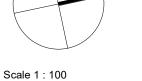
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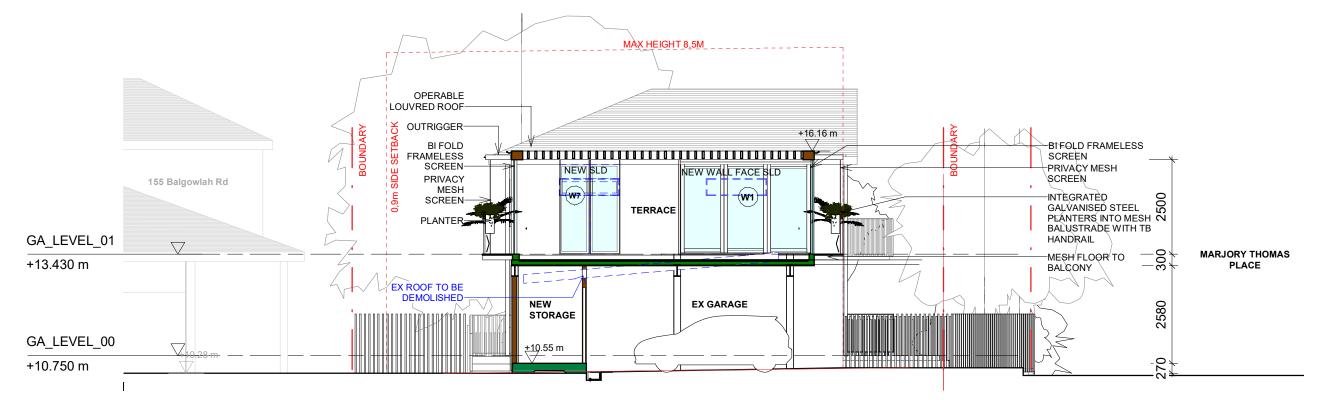


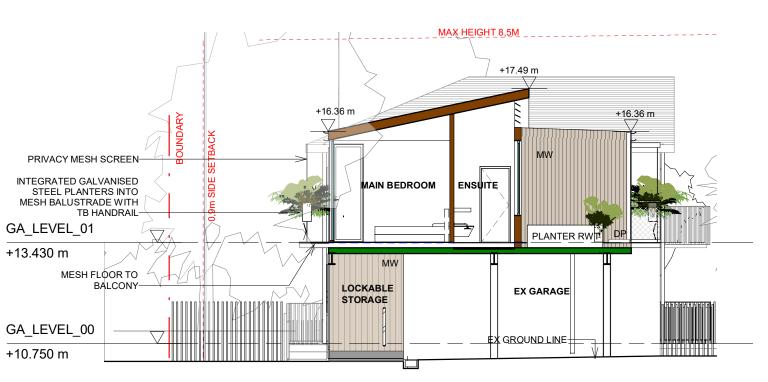
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Level 1 proposed plan

Scale at A3 Revision Date. 1:100 11.05.2022 Project No. Rev No. Drawing No. **DA04** 2101

D





East West Section through terrace

1:100 REF:1/A2000



East West Section through main bed REF:1/DA03

North South Section 1:100 REF:1/A2000

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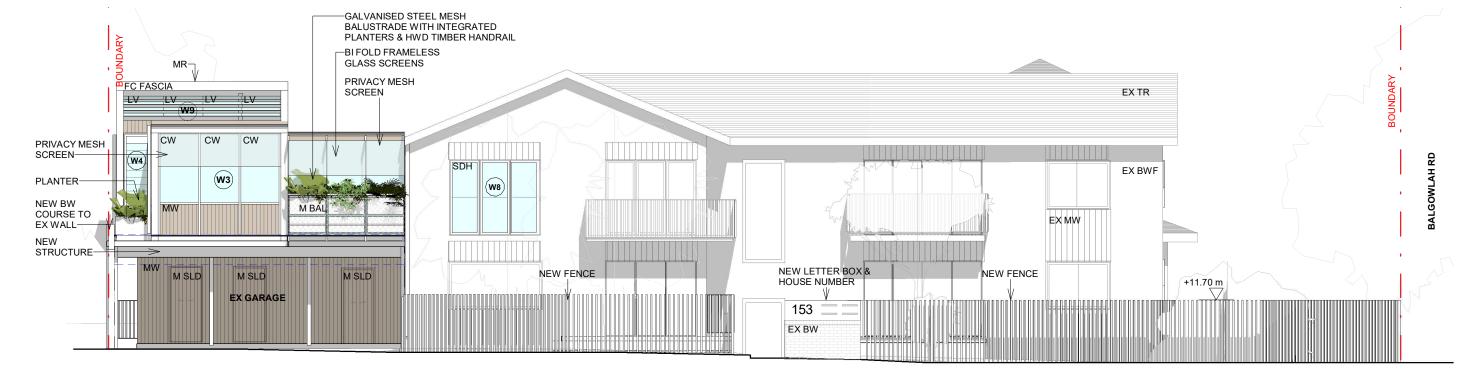
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Sections

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Proposed East Elevation - Marjory Thomas Place



North Elevation- Balgowlah Road

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FINISHES





EX BRICKWORK

METAL WALL AND ROOFING





GALVANISED STEEL

GALVANISED STEEL PLANTER





WHITE ALUMINUM WINDOW FC WHITE FINISH

2101

GALVANISED MESH STEEL

DA06

Drawing Title

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Street Elevations & Finishes Scale at A3 Revision Date. 1:100 11.05.2022 Project No. Rev No. Drawing No.

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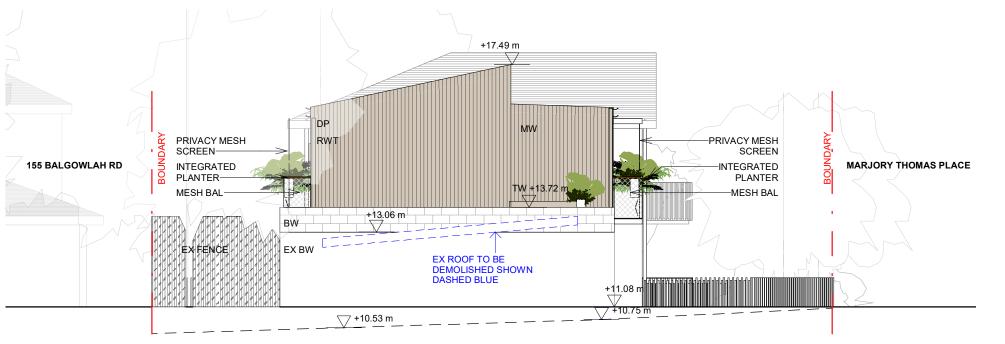
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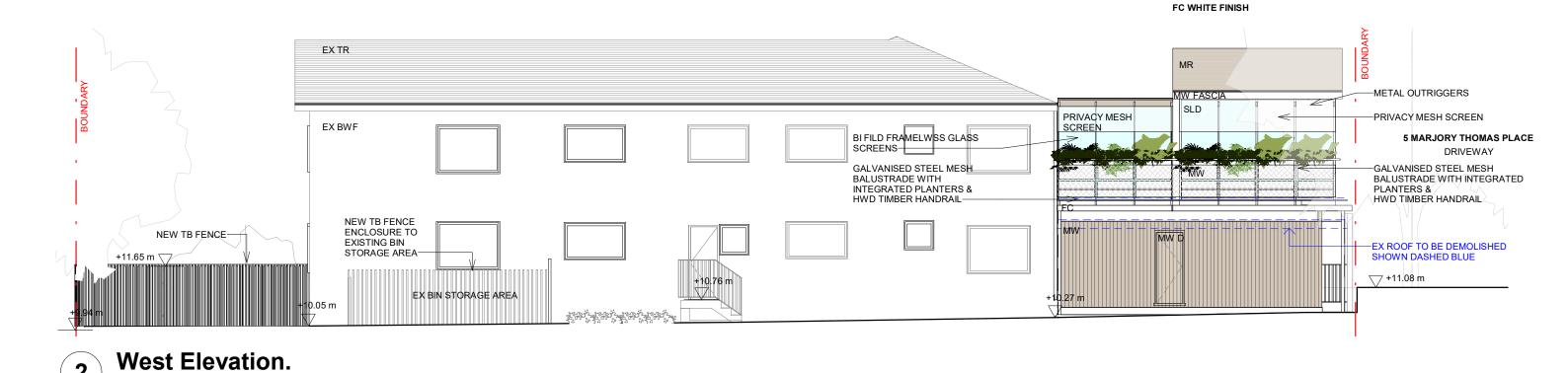
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South Elevation



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1:100

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2101

FINISHES

EX BRICKWORK

STAINLESS STEEL

WHITE ALUMINUM WINDOW

METAL WALL

AND ROOFING

STAINLESS

STEEL PLANTER

WHITE PAINTED TB FENCE

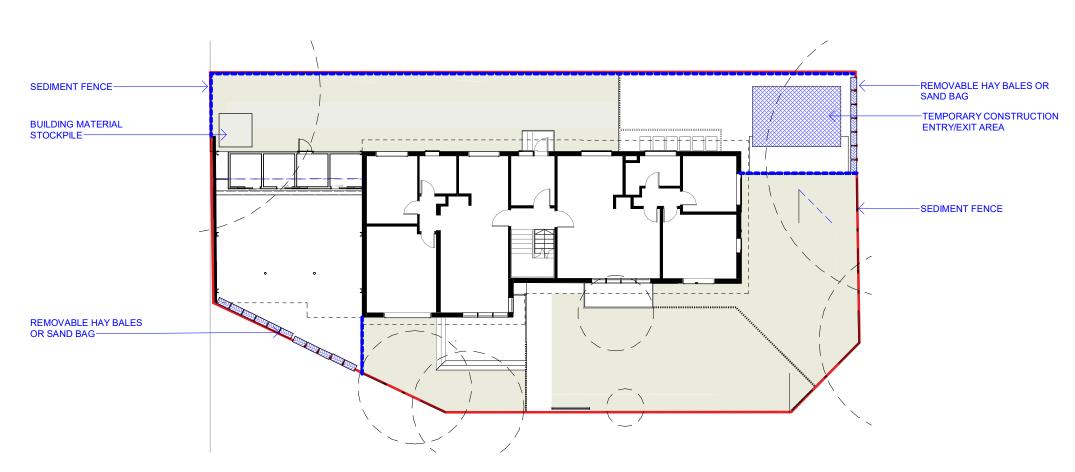
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Side Elevations & Finishes

Scale at A3 Revision Date. 1:100 11.05.2022 Drawing No. Project No. Rev No.

D

DA07



SEDIMENT AND EROSION CONTROL NOTES

SEDIMENT AND EROSION CONTROL SHALL BE EFFECTIVELY MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL THE SITE HAS BEEN STABILISED OR LANDSCAPED TO THE PRINCIPAL'S SATISFACTION.

A SINGLE ALL WEATHER ACCESS WAY WILL BE PROVIDED WHERE FRONECESSARY CONSISTING OF 50-75 AGGREGATE OR SIMILAR MATERIAL AT A MINIMUM THICKNESS OF 150 LAID OVER NEEDLE-PUNCHED GEOTEXTILE FABRIC AND CONSTRUCTED PRIOR TO COMMENCEMENT OF WORKS.

THE CONTRACTOR SHALL ENSURE THAT NO SPOIL OR FILL ENCROACHES UPON ADJACENT AREAS FOR THE DURATION OF WORKS.

THE CONTRACTOR SHALL ENSURE THAT KERB INLETS AND DRAINS RECEIVING STORMWATER SHALL BE PROTECTED AT ALL TIMES DURING DEVELOPMENT, KERB INLET SEDIMENT TRAPS SHALL BE INSTALLED ALONG THE IMMEDIATE VICINITY ALONG THE STREET FRONTAGE.

SEDIMENT FENCING SHALL BE SECURED BY POST (WHERE METAL STAR PICKETS ARE USED PLASTIC SAFETY CAPS SHALL BE USED) AT 2000 INTERVALS WITH GEOTEXTILE FABRIC EMBEDDED 200 IN SOIL.

ALL TOPSOIL STRIPPED FORM THE SITE AND STOCKPILED DOES NOT INTERFERE WITH DRAINAGE LINES AND STORMWATER INLETS AND WILL BE SUITABLY COVERED WITH AN IMPERVIOUS MEMBRANE MATERIAL AND SCREENED BY SEDIMENT FENCING

SOIL CONSERVATION NOTE:

PRIOR TO COMMENCEMENT OF CONSTRUCTION PROVIDE 'SEDIMENT FENCE," 'SEDIMENT TRAP' AND WASHOUT AREA TO ENSURE THE CAPTURE OF WATER BORNE MATERIAL GENERATED FROM THE SITE.

MAINTAIN THE ABOVE DURING THE COURSE OF CONSTRUCTION, AND CLEAR THE 'SEDIMENT TRAP AFTER EACH STORM.

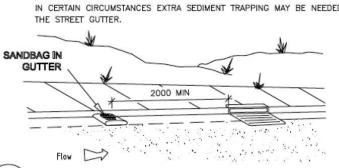
SEDIMENT TRAP

900 x 900 WIDE 500 DEEP PIT, LOCATED AT THE LOWEST POINT TO THE TRAP SEDIMENT.

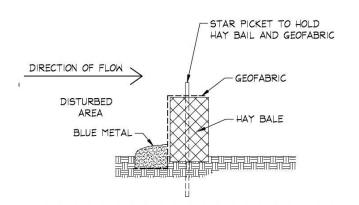
TO BE 900 x 900 ALLOCATED FOR THE WASHING OF TOOL & EQUIPMENT.

SANDBAG KERB INLET SEDIMENT TRAP TYPICAL DETAIL

SANDBAG KERB SEDIMENT TRAP IN CERTAIN CIRCUMSTANCES EXTRA SEDIMENT TRAPPING MAY BE NEEDED IN

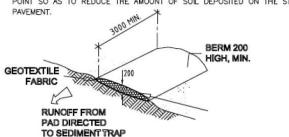


SEDIMENT FENCE **TYPICAL DETAIL**



TEMPORARY CONSTRUCTION ENTRY TYPICAL DETAIL

VEHICLE ACCESS TO SITE VEHICLE ACCESS TO THE BUILDING SITE SHOULD BE RESTRICTED TO A SINGLE POINT SO AS TO REDUCE THE AMOUNT OF SOIL DEPOSITED ON THE STREET



BUILDING MATERIAL STOCKPILES TYPICAL DETAIL

BUILDING MATERIAL STOCKPILES

ALL STOCKPILES OF BUILDING MATERIAL SUCH AS SAND AND SOIL MUST BE PROTECTED TO PREVENT SCOUR AND EROSION.

THE SHOULD NEVER BE PLACED IN THE STREET GUTTER WHERE THEY WILL WASH AWAY WITH THE FIRST RAINSTORM



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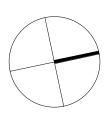
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Erosion Control Plan

Scale at A3 1:200

2101

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Project No. Rev No.

C

Drawing No.

DA12

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General Notes



Lomandra longifolia spiny-head mat-rush



2 Concrete



3 Grass pavers



4 Pebbles



5 Anigozanthos Kangaroo paw



6 Banksia integrifolia



Dwarf thrymptomene Payne's Thryptomene



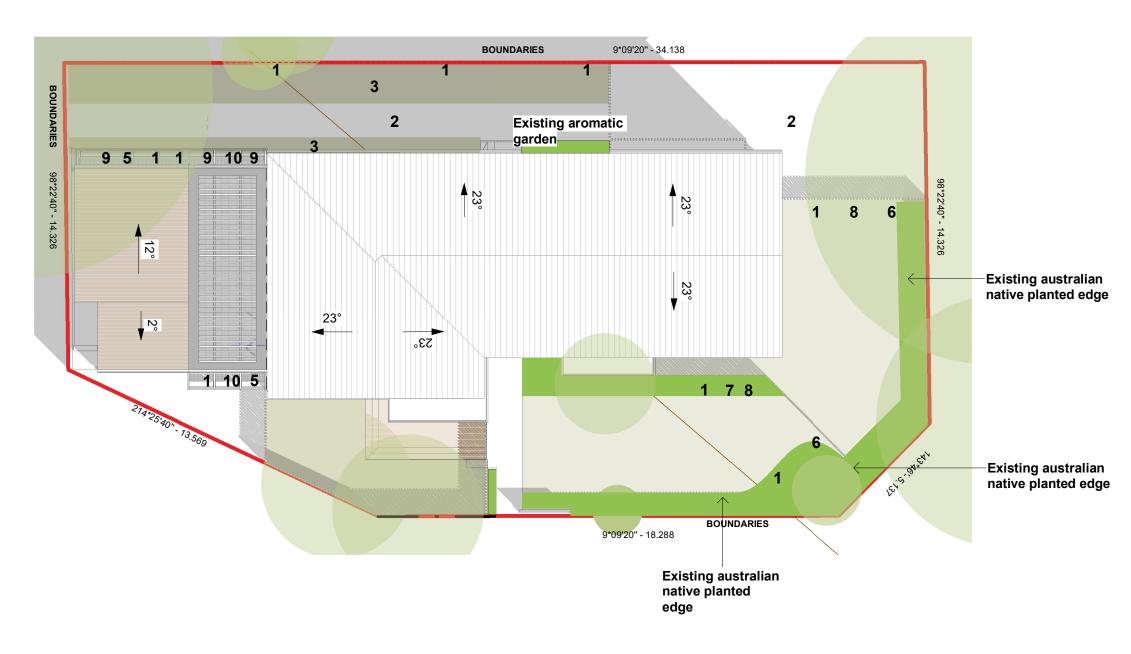
8 Grevillea



9 Crassula Arborescens Silver Dollar Plant



Hardenbergia 10 Happy Wanderer



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Drawing Title Landscape Plan

Scale at A3 1:150

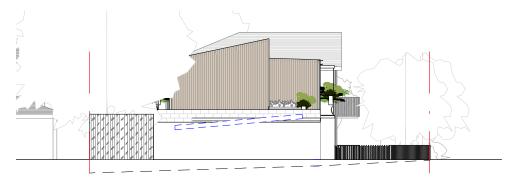
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DA10

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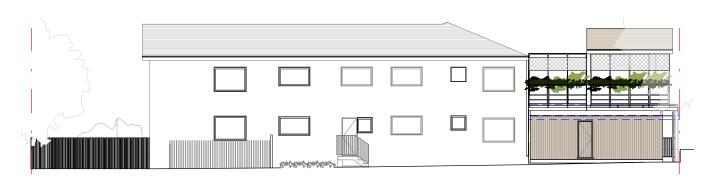
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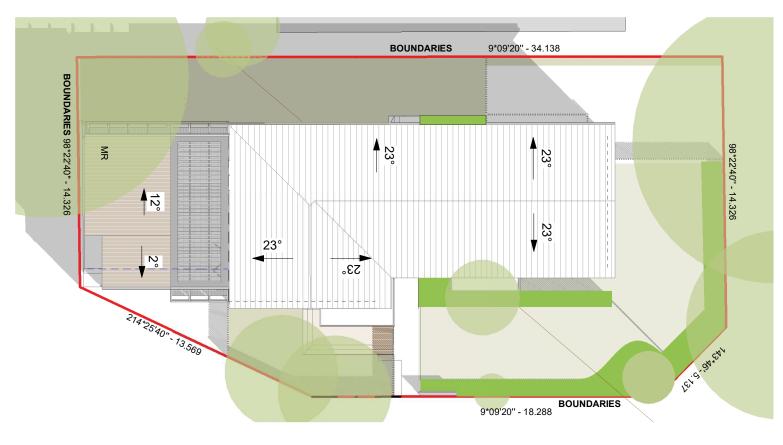
SOUTHERN ELEVATION



NORTH ELEVATION



WESTERN ELEVATION



SITE PLAN



EASTERN ELEVATION

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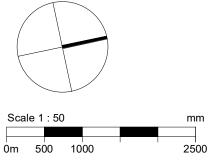
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- site.

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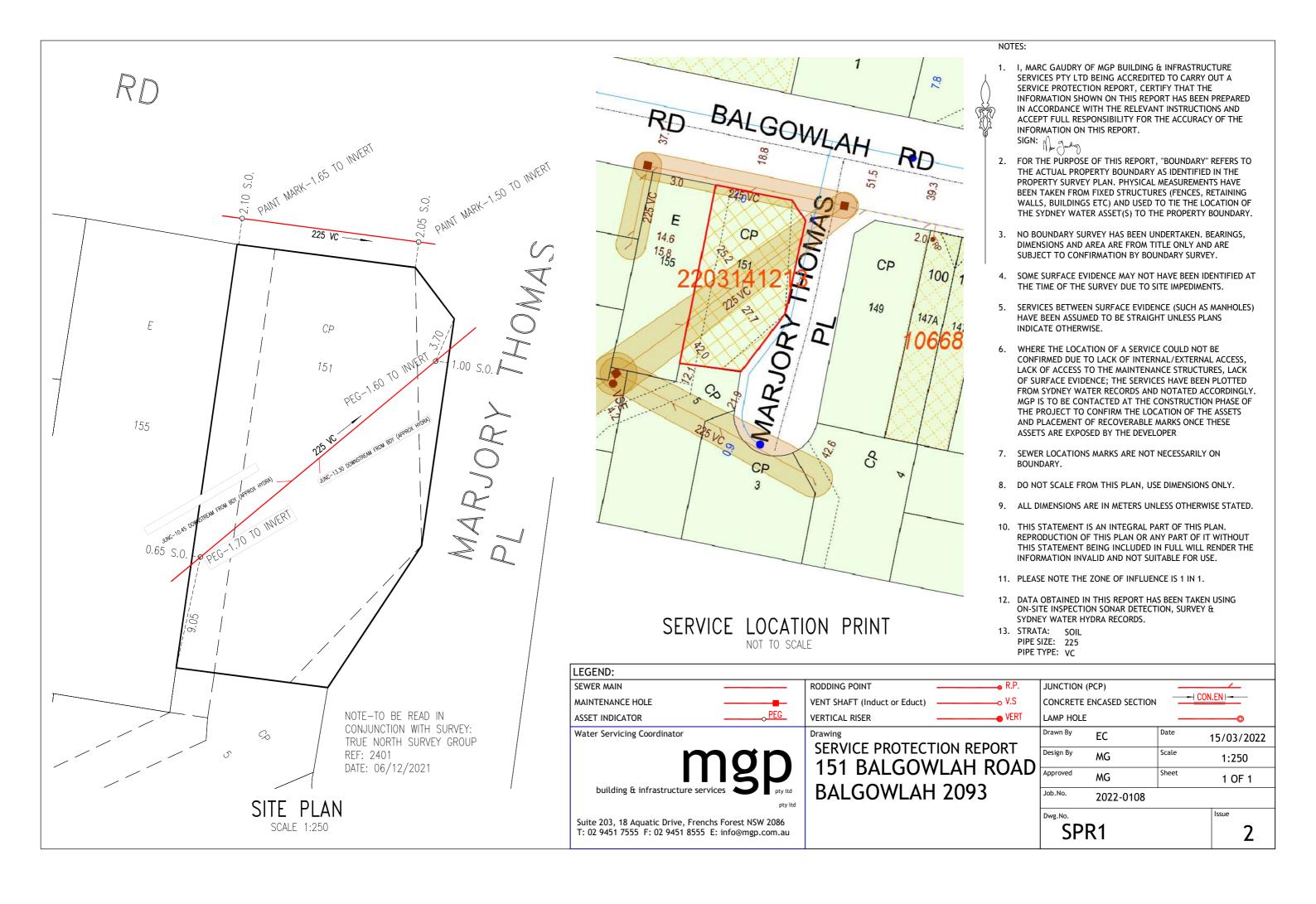
2101

Austin Ware & Charlotte Vergnolle 3/153 Balgowlah Rd, Balgowlah NSW Drawing Title

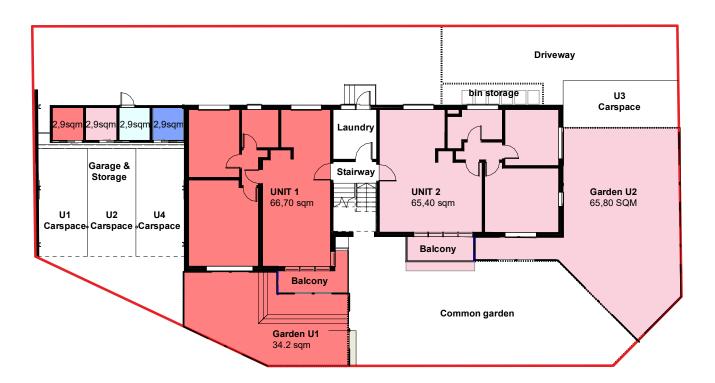
Notification Plan

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1:200		11.05.2022
Project No.	Rev No.	Drawing No.

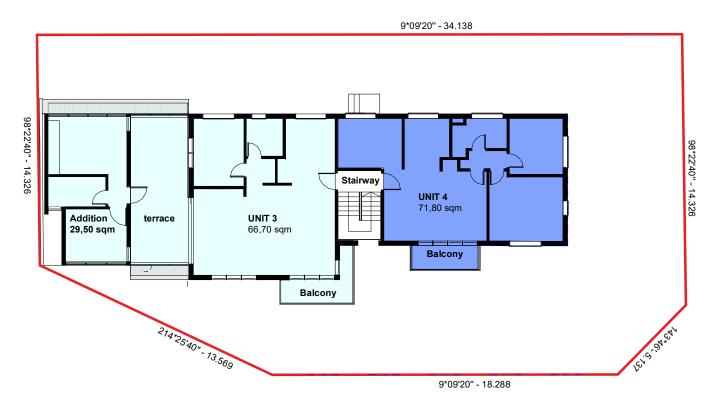
DA14



GROUND FLOOR PLAN



FIRST FLOOR PLAN



UNIT 1

Existing: 66,70 sqm (718 sq.ft) Garden: 34,60 sqm

Storage: 2,90 sqm

TOTAL: 104,20 sqm

UNIT 2

Existing: 65,40 sqm (704 sq.ft) **Garden:** 67,60 sqm

Storage: 2,90 sqm

UNIT 3

Existing: 66,70 sqm (718 sq.ft) Addition: 29,50 sqm Open space: 33,00 sqm Storage: 2,9 qsm

TOTAL: 132,00 sqm

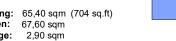
UNIT 4

Existing: 71,80 sqm (773 sq.ft) 56,90 sqm

Storage: 2,9 qsm

TOTAL: 131,56 sqm

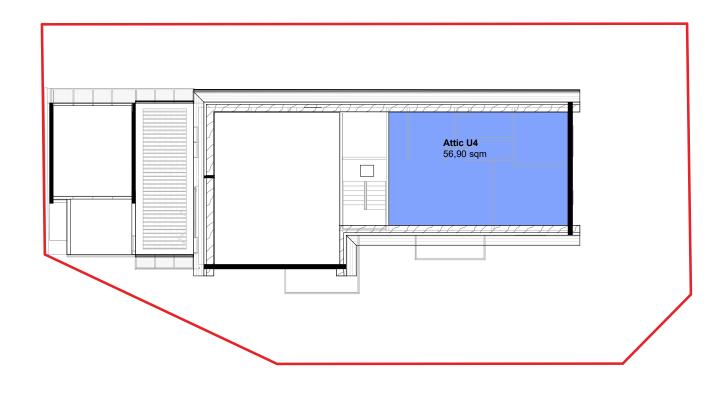
TOTAL: 135,90 sqm





Area Lot Schedule 1:100

ROOF ATTIC PLAN



studio oulala

Unit 13, 28-34 Roseberry Street Balgowlah, NSW, 2093

tel +61 (0) 0481 341 417 charlotte@oulalaarchitects.com © STUDIO OULALA 2021

DRAWING STATUS

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В	02.05.2022	Issued for owner consent	CV
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- Scale 1:50 mm 500 1000 2500 0m

Austin Ware & Charlotte Vergnolle 3/153 Balgowlah Rd, Balgowlah NSW **Drawing Title**

Proposed Subdivision Plan

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2101		C	DA13

2. DO NOT SCALE FROM THESE DRAWING.

3. ALL DIMENSIONS ARE TO BE VERIFIED ON SITE BY THE BUILDER BEFORE COMMENCING WITH ASSOCIATED WORK.

STORMWATER NOTES:

GENERAL:

A1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS (LATEST VERSION) AND THE REQUIREMENTS OF THE LOCAL COUNCIL AND ANY APPLICABLE AUTHORITIES.

A2. ALL LEVELS SHOWN ARE TO THE AUSTRALIAN HEIGHT DATUM (AHD) UNLESS NOTED OTHERWISE.

A3. THE LOCATION OF ALL DRAINAGE ELEMENTS ARE SHOWN INDICATIVELY BASED ON AVAILABLE SURVEY OR OTHER INFORMATION. ALL DRAINAGE ELEMENTS ARE TO BE INSTALLED WITH CONSIDERATION TO SITE CONSTRAINTS AND THE INTENT OF THE DRAINAGE CONCEPT.

A4. ANY MATERIAL VARIATIONS TO THE DRAINAGE CONCEPT OR DETAILED STORMWATER ELEMENTS MUST BE APPROVED BY NORTHERN BEACHES CONSULTING ENGINEERS PTY LTD PRIOR TO COMMENCEMENT

A5. ANY EXCAVATION OR TRENCHING FOR SERVICES ADJACENT TO A STRUCTURE OR PROPERTY BOUNDARY MUST NOT ENCROACH ON THE 'ZONE OF INFLUENCE', REFER TO THE NCC FOR FURTHER DETAILS.

GENERAL CONSTRUCTION NOTES:

BI. CONTRACTORS TO LOCATE ALL EXISTING SERVICES PRIOR TO EXCAVATION AND NOTIFY ENGINEER OF ANY POTENTIAL CLASHES WITH THE PROPOSED STORMWATER DRAINAGE SYSTEM.

B2. ANY ELEMENTS OF THE EXISTING STORMWATER SYSTEM WHICH ARE PROPOSED TO BE RETAINED MUST BE INSPECTED AND APPROVED BY AN ENGINEER PRIOR TO CONSTRUCTION AS BOTH HAVING ADEQUATE CAPACITY TO CATER FOR THE RUNOFF DIRECTED TO IT AND BEING IN ADEQUATE CONDITION FOR USE.

B3. EXISTING STORMWATER SYSTEM ALSO TO BE INSPECTED BY A SUITABLY QUALIFIED PLUMBER PRIOR TO CONSTRUCTION AND UPGRADED AS REQUIRED IN ACCORDANCE WITH AS3500.3.

B4. CARE SHOULD BE TAKEN WHEN UNDERTAKING WORKS IN THE VICINITY OF TREES NOT TO DISTURB THE TREE ROOT SYSTEM. HAND DIGGING OF TRENCHES MAY BE REQUIRED SUBJECT TO THE PROJECT ARBORISTS REQUIREMENTS. REFER TO THE ARBORIST REPORT FOR EXCAVATION REQUIREMENTS SURROUNDING PROTECTED TREE ROOT ZONES.

B5. SWIMMING POOL SURCHARGE OVERFLOW TO BE CONNECTED VIA GRAVITY TO THE SEWER IN ACCORDANCE WITH AS3500. DETAILS AND CERTIFICATION BY OTHERS.

B6. EXTENT, ALIGNMENT, DEPTH AND CONDITION OF ANY COUNCIL STORMWATER PIPELINE WITHIN A DEVELOPMENT SITE MUST BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER MUST BE NOTIFIED UPON VERIFICATION. ANY NEW CONNECTION TO A COUNCIL STORMWATER PIPELINE WILL BE SUBJECT TO COUNCIL APPROVAL AND MUST BE INSTALLED IN ACCORDANCE WITH THE LOCAL COUNCIL SPECIFICATIONS.

PIPEWORK INSTALLATION:

CI. ALL PIPES TO BE MINIMUM 100mm & UNLESS NOTED OTHERWISE

C2. ALL PIPES TO BE UPVC SEWER GRADE TO AS 1254 UNLESS NOTED OTHERWISE.

C3. ALL PIPES TO BE LAYED AT 1 % MINIMUM GRADE UNLESS NOTED OTHERWISE.

C4. ALL CONNECTIONS INTO EXISTING PIPES MUST BE MADE IN THE DIRECTION OF FLOW C5. ANY NEW UPVC CONNECTIONS INTO EXISTING R.C. PIPES MUST BE MADE INTO THE TOP HALF OF THE

PIPE USING A FLOWCON CONNECTION FITTING U.N.O

C6. ALL PIPES SHALL BE LAID ON A 75mm SAND BED, COMPACTED TO 100% S.M.D.D. BELOW PAVEMENTS. (NO COMPACTION REQUIRED BELOW LANDSCAPING) COVER TO SURFACE FROM TOP OF PIPE TO BE 300mm MINIMUM. BACKFILL TO BE ADEQUATELY CONSOLIDATED AROUND PIPES BY METHOD OF RAMMING AND WATERING IN. TRENCHES TO BE FILLED WITH NO-FINES GRANULAR MATERIAL AS

CT. ALL EXISTING EARTHENWARE PIPES TO BE UPGRADED TO UPVC.

C8. MINIMUM PIPE COVER TO ALL IN-GROUND PIPEWORK SHALL BE CARRIED OUT IN ACCORDANCE WITH

C9. ALL SUSPENDED PIPE FIXINGS ARE TO BE CARRIED OUT IN ACCORDANCE WITH AS2032. CIO. ENSURE THAT ALL STORMWATER PITS AND PIPES ARE LOCATED CLEAR FROM TREE ROOT

CII. ALL PIPEWORK MUST BE INSTALLED WITHIN THE SITE BOUNDARY OF THE DEVELOPMENT SITE. ANY NEW OR EXISTING PIPEWORK EXTENDING THROUGH PRIVATE PROPERTY BEYOND THE BOUNDARY OF THE DEVELOPMENT SITE MUST BE CONTAINED SOLELY WITHIN A DRAINAGE EASEMENT. IF NO DRAINAGE EASEMENT EXISTS, A NEW DRAINAGE EASEMENT MUST BE SOUGHT AND REGISTERED PRIOR TO UTILISING OR INSTALLING PIPEWORK THROUGH NEIGHBOURING PROPERTIES. CONTACT THE ENGINEER IF A DRAINAGE EASEMENT CANNOT BE OBTAINED.

ROOF DRAINAGE:

DI. ALL DOWN PIPES TO BE 100mm & UNLESS NOTED OTHERWISE.

D2. DOWN PIPE LOCATIONS ARE INDICATIVE ONLY. LOCATIONS TO BE CONFIRMED WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

D3. PROVIDE CLEANING EYES AT ALL DOWNPIPES.

D4. GUTTER GUARDS MUST BE INSTALLED ON ALL GUTTERS UNLESS NOTED OTHERWISE. D5. ALL EAVES GUTTER AND VALLEY GUTTER SYSTEMS MUST BE INSTALLED IN ACCORDANCE WITH AS3500.3 REQUIREMENTS.

D6. ALL BOX GUTTER SYSTEMS MUST BE INSTALLED STRICTLY IN ACCORDANCE WITH THE DETAILS SHOWN ON THE APPROVED STORMWATER MANAGEMENT PLAN. IF NO DETAILS ARE SHOWN, THE BOX GUTTER SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH AS3500.3. IF ANY CHANGE TO THE BOX GUTTER SYSTEM CONFIGURATION IS PROPOSED, THE ENGINEER MUST BE NOTIFIED FOR A RE-DESIGN. IF THE INSTALLED BOX GUTTER DOES NOT STRICTLY COMPLY WITH THE DESIGN DETAILED ON THE STORMWATER MANAGEMENT PLAN, CERTIFICATION OF THE HYDRAULIC SYSTEM MAY BE REFUSED.

D7. ALL GREEN ROOFS, PEBBLED ROOFS AND PLANTERS WITH A CONCRETE BASE MUST BE WATERPROOFED AND HAVE DRAINAGE CELL INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION.

PITS:

EI. ALL STORMWATER PITS MUST BE INSTALLED IN ACCORDANCE WITH AS3500.3.

E2. ALL CONCRETE PITS TO BE CAST INSITU OR, IF PRECAST, APPROVED BY ENGINEER. CAST INSITU PITS TO HAVE 150mm THICK CONCRETE WALLS AND BASE. WALLS TO BE REINFORCED WITH 1 NI2 TOP TIE UNLESS NOTED OTHERWISE. CAST INSITU PITS GREATER THAN 900 DEEP TO BE MINIMUM 900x600 AND TO HAVE 150mm THICK CONCRETE WALLS AND BASE. WALLS TO BE REINFORCED WITH N12 AT 300 EACH WAY UNLESS NOTED OTHERWISE.

E3. MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS TO BE IN ACCORDANCE WITH TABLE 8.2, AS3500.3.

E4. ALL PITS GREATER THAN 1200mm DEEP SHALL HAVE STEP IRONS INSTALLED. STEP IRON INSTALLATION MUST BE IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS.



Consulting Engineers

STRUCTURAL - CIVIL - STORMWATER - REMEDIAL

E5. THE BOUNDARY OR SILT ARRESTOR PIT MUST INCORPORATE A SUMP OF MINIMUM 200mm DEPTH BELOW THE INVERT OF THE OUTLET PIPE AND A MAXI-MESH SCREEN AS PER LOCAL COUNCIL AND THE AUSTRALIAN STANDARD REQUIREMENTS. HOWEVER, UNLESS SPECIFICALLY REQUIRED BY COUNCILS POLICY OR IF THE SITE CONSISTS OF A CLAY OR ROCK SUBGRADE, ALL OTHER DRAINAGE PITS WILL NOT REQUIRE A SUMP.

E6. ALL STORMWATER PITS TO BE LOCATED AT LOW POINTS TO PREVENT PONDED WATER. E7. FOR STORMWATER PITS LOCATED BELOW THE WATER TABLE, CUT INTO ROCK OR IN POORLY DRAINED SOILS, THE PIT SUMP MAY BE FILLED WITH MORTAR AND SCREEDED TOWARDS THE OUTLET AT MINIMUM 1% FALL, SUBJECT TO THE ENGINEERS APPROVAL

FI. ALL SUBSOIL DRAINAGE TO BE INSTALLED AS REQUIRED IN ACCORDANCE WITH AS3500.3 (SPECIFICALLY SECTION 6, 7 AND APPENDIX M) AND THE NCC.

F2. INSTALLATION OF SUBSOIL DRAINAGE LINES IS GENERALLY REQUIRED WHERE SUBSURFACE WATER MOVEMENT COULD DAMAGE BUILDINGS OR CAUSE LOSS OF AMENITY THROUGH THE BUILD-UP OF EXCESSIVE MOISTURE OR LATERAL WATER PRESSURE. THIS INCLUDES ALONG WALLS THAT IMPEDE THE NATURAL FLOW OF GROUNDWATER, ON THE UPHILL SIDE OF CUT AND FILL SITES, ADJACENT TO DEEP FOOTINGS, BEHIND RETAINING WALLS AND ADJACENT TO BASEMENT WALLS. SUBSOIL DRAINAGE IS GENERALLY ALSO REQUIRED IN SHALLOW LANDSCAPED AREAS OVER ROCK OR POORLY DRAINED SOILS TO PREVENT OVERLY SATURATED LANDSCAPED AREAS.

F3. THE INSTALLATION OF SUBSOIL DRAINAGE MAY REQUIRE TRENCHING THROUGH ROCK.

F4. ALL SUBSOIL LINES ARE TO BE 100mm UPVC SLOTTED PIPE (UNSOCKED), LAID AT (MIN.) 0.5% FALL

F5. THE SUBSOIL LINE IS TO BE SURROUNDED BY SELECT FILTER MATERIAL, GENERALLY 10-20mm

F6. THE TRENCH SHALL BE SIZED TO PROVIDE A MINIMUM 50mm BEDDING AND 100mm COVER ALL AROUND THE SUBSOIL LINE, GENERALLY MINIMUM 300mm WIDE X 300mm DEEP. THE TRENCH IS TO BE WRAPPED ALL-ROUND IN NON-WOVEN, GEOTEXTILE FABRIC OF STRENGTH CLASS A, WITH SUFFICIENT OVERLAP (LESSER OF TRENCH WIDTH OR 500mm).

F7. WHERE THE IN-SITU SOILS HAVE A GRAIN SIZE SMALLER THAN THE GEOTEXTILE FABRIC, COURSE WASHED-SAND SHOULD BE USED AS A FILTER TO PREVENT BLOCKAGE OF THE GEOFABRIC. F8. THE BACKFILL LAYER OVER THE TRENCH SHALL BE NO-FINES COURSE WASHED-SAND. WHERE LANDSCAPED AREAS ARE PROPOSED OVER THE TRENCH, THE TOP 300mm OF BACKFILL MAY BE MIXED WITH UP TO 20% ORGANIC MATTER.

F9. ALL SUBSOIL LINES ARE TO DISCHARGE INTO A GRATED PIT, AT A LEVEL MINIMUM 50mm ABOVE THE PIT OUTLET UNO. THE PROJECT BUILDER IS TO IMPLEMENT APPROPRIATE MEASURES TO PREVENT SUBSOIL LINE BLOCKAGE OR INFESTATION OF VERMIN.

FIO. THE HIGH-END OF THE SUBSOIL LINE IS TO BE TURNED UP AT 45° AND TERMINATE AT GROUND LEVEL WITH AN INSPECTION CAP TO ENABLE FUTURE FLUSH OUT AND MAINTENANCE.

FII. 100mm ϕ x 3000 LONG TAIL OUT SUBSOIL LINE TO BE PROVIDED ON THE UPSTREAM SIDE OF ALL LARGE PITS OR IN AREAS WITH HIGH SEEPAGE FLOWS. SUBSOIL LINE TO BE COVERED WITH GEOTEXTILE FILTER SOCK FOR THE FULL LENGTH AND END COVERED. BACKFILL MUST BE IN NO-FINES COARSE WASHED-SAND.

CHARGED SYSTEM:

GI. ALL PIPEWORK IN A CHARGED SYSTEM TO BE 100mm ϕ UPVC PRESSURE OR SEWER GRADE PIPES WITH ALL JOINTS PRESSURE SEALED TO A MINIMUM OF 1,000mm (UNLESS NOTED OTHERWISE) ABOVE THE INLET OF THE DISCHARGE POINT. ALL JOINTS TO BE SOLVENT WELDED IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS.

G2. ALL CHARGED SYSTEMS MUST HAVE A BLEED OUT LINE AT THE LOW POINT IN THE CHARGED SYSTEM WHICH MUST BE CONNECTED TO A FLUSH OUT PIT VIA GRAVITY. THE BLEED LINE MUST BE MAINTAINED AND REGULARLY FLUSHED OUT.

ON-SITE DETENTION NOTES:

HI. ORIFICE PLATE MUST BE INSTALLED PRIOR TO INSTALLATION OF THE ROOF DRAINAGE SYSTEM AND CONNECTION OF THE SITE STORMWATER SYSTEM TO THE ON-SITE DETENTION TANK.

H2. THE HEIGHT DIFFERENCE (H*) BETWEEN THE ORIFICE CENTRELINE AND THE TOP WATER LEVEL OF THE ON-SITE DETENTION TANK MUST BE CONSTRUCTED IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN. IF H* CHANGES DUE TO SITE CONDITIONS, THE ENGINEER MUST BE NOTIFIED FOR AN ORIFICE PLATE SIZE ADJUSTMENT.

H3. ANY PIPE FITTINGS FOR BELOW GROUND ON-SITE DETENTION TANKS MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

H4. ACCESS HATCHES MUST BE INSTALLED AT BOTH ENDS OF THE ON-SITE DETENTION TANK. IF THE DEPTH OF THE TANK IS GREATER THAN 1200mm, STEPS IRONS MUST BE INSTALLED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS.

H5. ABOVE GROUND ON-SITE DETENTION BASINS MUST NOT EXCEED A PONDING DEPTH OF 300mm, UNLESS NOTED OTHERWISE. THE BUILDER MUST ENSURE THAT THE REQUIRED DETENTION VOLUME IS ACHIEVED DURING CONSTRUCTION. A WORK-AS-EXECUTED PLAN DETAILING THE FINISHED LEVELS AND VOLUME OF THE ON-SITE DETENTION BASIN MUST BE CARRIED OUT AT THE COMPLETION OF WORKS BY A REGISTERED SURVEYOR AND APPROVED BY THE ENGINEER PRIOR TO FINAL CERTIFICATION.

JI. WHEN LAND FALLS TOWARDS A BUILDING, INCLUDING LAND UPSLOPE OF THE PROPERTY BOUNDARY, GROUND SURFACE LEVELS ADJACENT TO THE BUILDING ARE TO BE REGRADED SUCH THAT THE FIRST METRE HAS MINIMUM 50mm FALL AWAY FROM THE BUILDING, GENERALLY IN ACCORDANCE WITH THE

J2. ANY NEW DEVELOPMENT WORKS MUST NOT CREATE ANY TRAPPED SURFACE AREAS. IN SUCH CASES WHERE TRAPPED AREAS EXIST, SWALE DRAINS OR GRATED PITS WITH PIPED OUTLETS OF ADEQUATE CAPACITY MAY BE REQUIRED TO ROUTE RUNOFF AROUND THE BUILDING TO AN APPROVED DISCHARGE POINT. IF THE TRAPPED AREA IS BELOW THE NATURAL SURFACE LEVEL, A PUMP OUT SYSTEM MAY BE REQUIRED. IN EITHER CASE, THE PROJECT ENGINEER MUST BE CONTACTED FOR DESIGN DETAILS (AS REQUIRED) PRIOR TO CONSTRUCTION.

J3. BUILDER TO PROVIDE A MINIMUM 100mm WIDE x 30mm HIGH OR 50mm DIA OVERFLOW FOR EVERY 6m2 OF EXPOSED AREA THAT IS TRAPPED OR SURROUNDED BY HOBS/BALUSTRADES/WALLS/ETC. THE FULL OVERFLOW DEPTH MUST BE LOCATED BELOW ANY ADJACENT INTERNAL FLOOR LEVELS OR OPENINGS TO PROTECT AGAINST WATER INGRESS DUE TO BLOCKAGE OF THE PRIMARY OUTLET(S).

RAINWATER RE-USE TANKS:

KI: CONSIDERING THE ROOF CATCHMENT AREA, LOCATION OF PROPERTY, INTENDED USE OF RAINWATER AND GARDEN SIZE WE RECOMMEND PROVIDING A RAINWATER TANK FOR USE AS PER BASIX REQUIREMENTS, SYDNEY WATER AND NSW HEALTH REQUIREMENTS FOR NON DRINKING USE ONLY. K2: THE TANKS PROVIDED WILL REDUCE PRESSURE ON COUNCIL'S STORMWATER INFRASTRUCTURE. K3: REFERENCES: COOMBES P.J. & KUCZERA G. (2001), "RAINWATER TANK DESIGN FOR WATER SUPPLY & STORMWATER MANAGEMENT." STORMWATER INDUSTRY ASSOCIATION REGIONAL CONFERENCE. PATRICK DUPONT & STEVE SHACKLE, "RAINWATER" AUSTRALIAN GOVERNMENT (2004), "GUIDANCE ON USE OF RAINWATER TANKS".

K4: ALL CONNECTIONS TO PLUMBING AND RAINWATER TANKS TO BE IN ACCORDANCE WITH SYDNEY WATERS' GUIDE "INSTALLING A RAINWATER TANK" AVAILABLE AT www.sydneywater.com.au K5: PROVIDE A DUAL SUPPLY SYSTEM AND BACKFLOW PREVENTION SYSTEM IN ACCORDANCE WITH 'BASIX-DESIGN GUIDE FOR SINGLE DWELLINGS' BY NSW DEPARTMENT OF INFRASTRUCTURE, PLANING AND

K6: IF NOT SPECIFIED ON PLANS, THE FIRST FLUSH SYSTEM IS TO HAVE A MINIMUM SIZE OF 20L PER 100m2 OF ROOF CATCHMENT AREA PRIOR TO ENTERING THE RAINWATER TANK. INDIVIDUAL SITE ANALYSIS IS REQUIRED IN HEAVILY POLLUTED AREAS TO DETERMINE IF LARGER VOLUMES OF FIRST FLUSH RAINWATER ARE TO BE DIVERTED. IF IN DOUBT, CHECK WITH LOCAL HEALTH AUTHORITIES K7: SCREENED DOWNPIPE RAINWATER HEAD OR OTHER SUITABLE LEAF AND DEBRIS DEVICE TO BE INSTALLED ON EACH DOWNPIPE. SCREEN MESH TO BE 4-6mm AND DESIGNED TO BE SELF-CLEANING. K8: FIRST FLUSH DEVICES, OR APPROVED ALTERNATIVE, TO BE INSTALLED WITH AN AUTOMATED DIVERSION AND DRAINAGE SYSTEM, THAT IS, NO MANUAL DIVERSION AND DRAINAGE VALVES. REFER TYPICAL FLUSH OUT PIT FOR DETAILS.

K9: BEFORE PURCHASING MATERIALS OR PAINT TO BE USED ON ROOF CATCHMENT AREAS, THE MANUFACTURER'S RECOMMENDATIONS ON LABELS AND BROCHURES FOR RAINWATER TANK SUITABILITY TO BE READ AND ADHERED TO.

KIO: PRE-STORAGE PITS FOR UNDERGROUND RAINWATER STORAGE TANKS AND FLUSH OUT PITS MAY ASSIST IN LIMITING SILT, AND PREVENT VERMIN, INSECTS (INCLUDING MOSQUITOES) AND DEBRIS FROM ENTERING THE RAINWATER STORAGE AREA.

KII: BUILDER/PLUMBER TO ENSURE THE INSTALLATION OF THE RAINWATER TANK SYSTEM IS IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND THE RAINWATER TANK DESIGN AND INSTALLATION HANDBOOK - HB 230-2008. IF IN DOUBT CONTACT ENGINEER. KI2: RAINWATER TANK TO BE WATER PROOFED IN ACCORDANCE WITH HB 230-200B

STORMWATER RE-USE TANKS:

STI: BASIX RECOMMENDS PROVIDING A STORMWATER TANKS FOR USE AS PER BASIX REQUIREMENTS FOR THE FOLLOWING USES: a) TO WATER GARDEN AREAS

ST2: THE TANKS PROVIDED WILL REDUCE PRESSURE ON COUNCIL'S STORMWATER INFRASTRUCTURE. ST3: IF NOT SPECIFIED ON PLANS, THE FIRST FLUSH SYSTEM IS TO HAVE A MINIMUM SIZE OF 20L PER 100m2 OF ROOF CATCHMENT AREA PRIOR TO ENTERING THE RAINWATER TANK. INDIVIDUAL SITE ANALYSIS IS REQUIRED IN HEAVILY POLLUTED AREAS TO DETERMINE IF LARGER VOLUMES OF FIRST FLUSH RAINWATER ARE TO BE DIVERTED. IF IN DOUBT, CHECK WITH LOCAL HEALTH AUTHORITIES. ST4: SCREENED DOWNPIPE RAINWATER HEAD OR OTHER SUITABLE LEAF AND DEBRIS DEVICE TO BE INSTALLED ON EACH DOWNPIPE. SCREEN MESH TO BE 4-6mm AND DESIGNED TO BE SELF-CLEANING. ST5: FIRST FLUSH DEVICES, OR APPROVED ALTERNATIVES, TO BE INSTALLED WITH AN AUTOMATED DIVERSION AND DRAINAGE SYSTEM, THAT IS, NO MANUAL DIVERSION AND DRAINAGE VALVES. REFER TYPICAL FLUSH OUT PIT FOR DETAILS.

ST6: BEFORE PURCHASING MATERIALS OR PAINT TO BE USED ON ROOF CATCHMENT AREAS, THE MANUFACTURER'S RECOMMENDATIONS ON LABELS AND BROCHURES FOR RAINWATER TANK SUITABILITY TO BE READ AND ADHERED TO.

DIAL BEFORE YOU DIG NOTE:

NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE DEVELOPERS \$ EXCAVATORS MAY BE HELD FINANCIALLY RESPONSIBLE BY THE ASSET OWNER SHOULD THEY DAMAGE UNDERGROUND NETWORKS.

CARELESS DIGGING CAN:

- CAUSE DEATH OR SERIOUS INJURY TO WORKERS AND THE GENERAL PUBLIC - INCONVENIENCE USERS OF ELECTRICITY, GAS, WATER AND

COMMUNICATIONS

- LEAD TO CRIMINAL PROSECUTION AND DAMAGES CLAIMS - CAUSE EXPENSIVE FINANCIAL LOSSES TO BUSINESS

- CUT OFF EMERGENCY SERVICES

- DELAY PROJECT COMPLETION TIMES WHILE THE DAMAGE IS REPAIRED



MINIMISE YOUR RISK AND DIAL BEFORE YOU DIG. - TEL. 1100

NORTHERN BEACHES COUNCIL - REGION 3 ON SITE DETENTION SYSTEM CALCULATION SHEET

ADDRESS: 153 BALGOWLAH ROAD, BALGOWLAH

SITE DETAILS

TOTAL SITE AREA

 385 m^2 (67% IMPERVIOUS) PRE DEVELOPMENT IMPERVIOUS AREA POST DEVELOPMENT IMPERVIOUS AREA 340 m^2 (59% IMPERVIOUS)

OSD REQUIREMENT

DECREASE

PROPOSAL IS AN ALTERATIONS AND ADDITIONS # THE TOTAL IMPERVIOUS AREA IS LESS THAN 60 % OF THE SITE, THEREFORE OSD IS NOT REQUIRED FOR THIS DEVELOPMENT

SITE STORAGE REQUIREMENT

RAINWATER 'BASIX' REQUIRED N/A (1000 L PROVIDED)

OUTLET CONTROL

CONNECT TO COUNCIL STORMWATER NETWORK METHOD OF DISCHARGE VIA EXISTING SYSTEM

DRAWING SCHEDULE:

STORMWATER DRAWINGS

DOI - STORMWATER GENERAL NOTES DO2 - STORMWATER MANAGEMENT - DRAINAGE PLANS

DO3 - STORMWATER MANAGEMENT - DRAINAGE PLANS AND DETAILS

NOTE:

STORMWATER DRAWINGS DO NOT INCLUDE SUBSOIL AGRICULTURAL DRAINAGE DETAILS FOR D.A. SUBMISSION. NORTHERN BEACHES CONSULTING ENGINEERS PTY LTD MUST BE COMMISSIONED TO INCLUDE THESE DETAILS ONLY WHEN CONSTRUCTION CERTIFICATE AND/OR CONSTRUCTION DOCUMENTATION IS COMPLETE AND PROVIDED.

> ISSUED FOR D.A. SUBMISSION ONLY NOT FOR CONSTRUCTION

IF IN DOUBT ASK

Design:

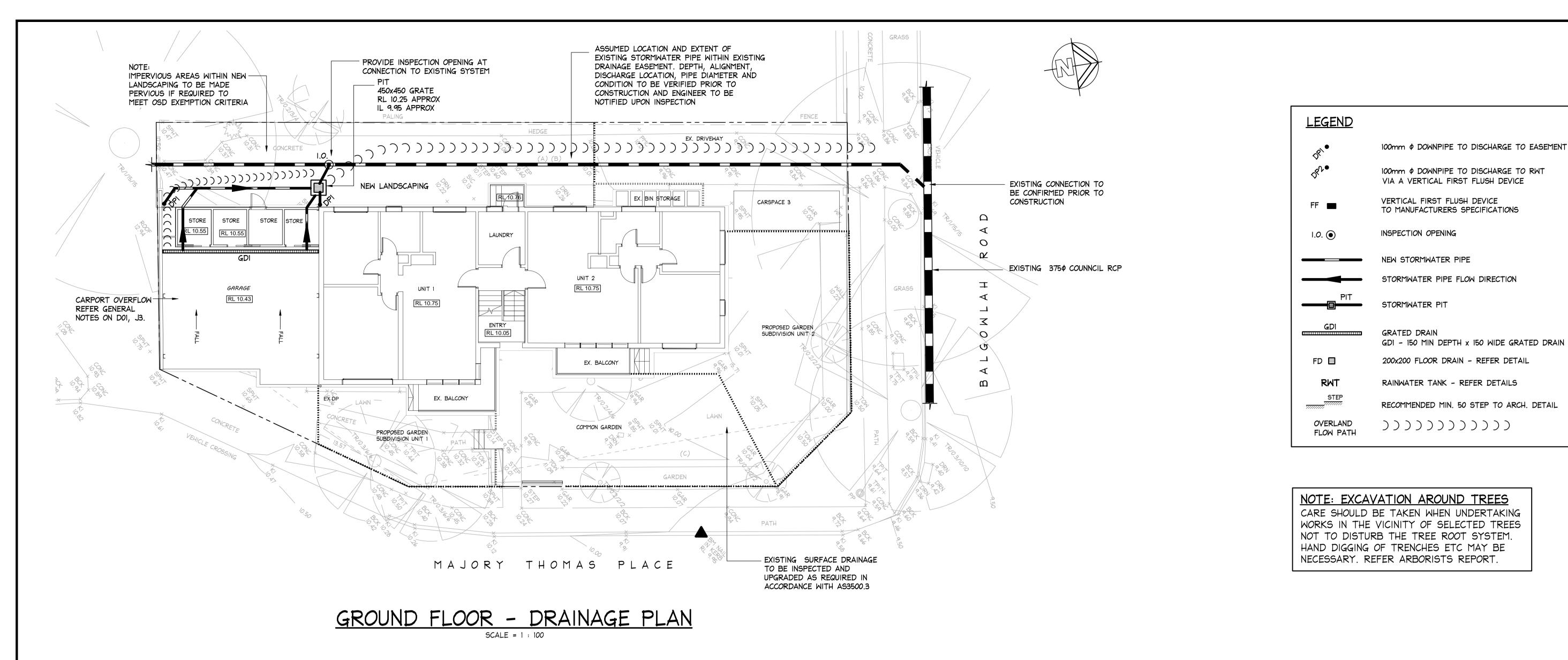


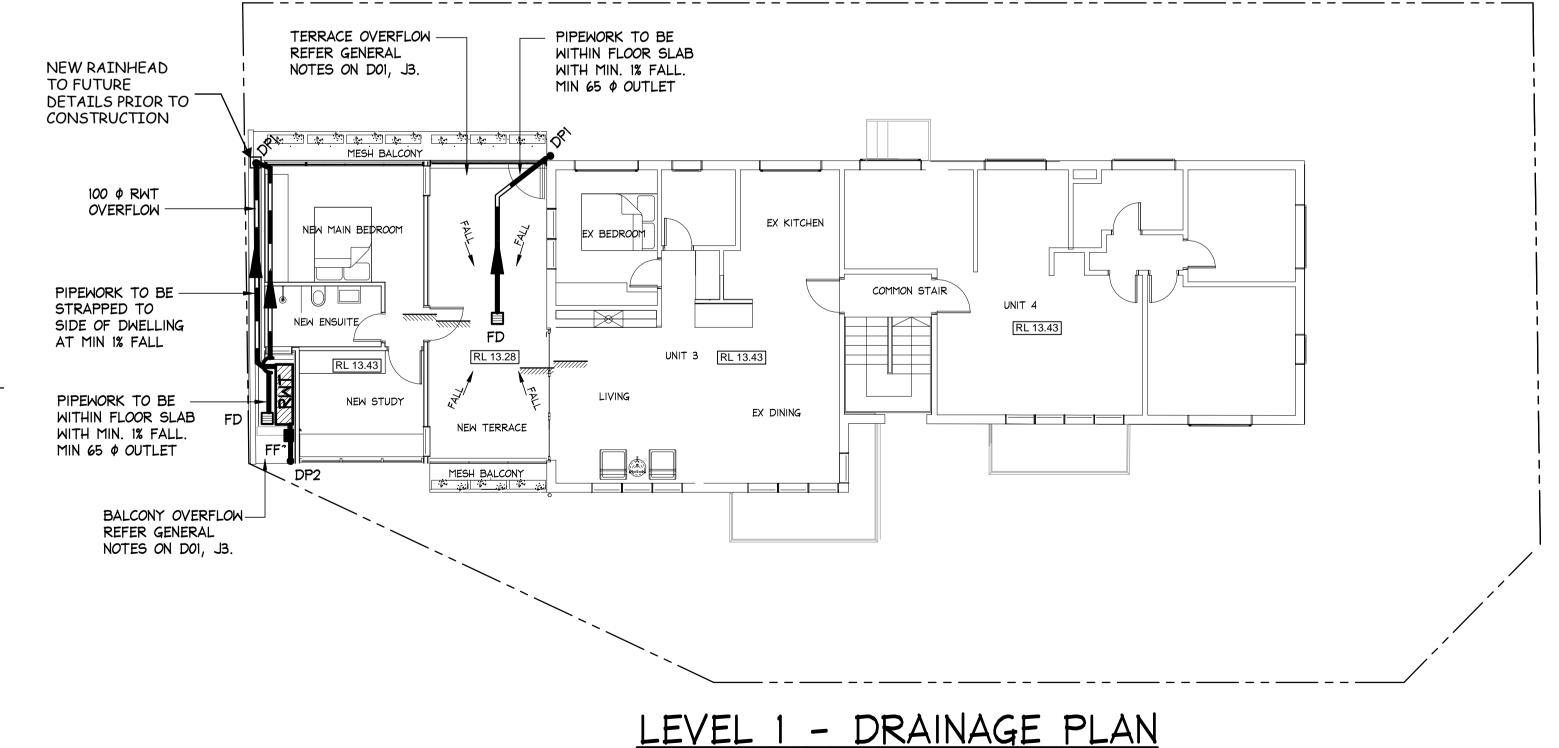
Drawn:

Drawing No:

/ 11								
			DOCUMENT CERTIFICATION	Consulting Engineers STRUCTURAL - CIVIL - STORMWATER - REMEDIAL	Architect: STUDIO OULALA	Project: ALTERATIONS AND ADDITIONS	Date:	
			Date: 13 May '22	A.C.N. 076 121 616 A.B.N. 24 076 121 616 Sydney: Ph: (02) 9984 7000 Fax: (02) 9984 7444	STODIO GOLALA	153 BALGOWLAH ROAD, BALGOWLAH	MARCH 2022	
08-04-202	2 A	ISSUED FOR D.A. SUBMISSION MC CM	Michael Wachjo B.E.(Civil), MIEAust. (Director NB Consulting Engineers)	Suite 207, 30 Fisher Road Dee Why N.S.W. 2099	Client:	Drawing Title: STORMWATER MANAGEMENT	Job No:	7
Date:	Issue:	: Description: By: Revi	W: The copyright of this drawing remains with Northern Beaches Consulting Engineers Pty Ltd. Trading as NB Consulting Engineers	Full Color of the transfer of	AUSTIN WARE AND CHARLOTTE VERGNOLLE	GENERAL NOTES AND DRAWING SCHEDULE	2202	75







SUBMISSION ONLY NOT FOR CONSTRUCTION IF IN DOUBT ASK

					DOCUMENT CERTIFICATION
					Date : 13 May '22
09-05-2022	В	REVISED TO SUIT NEW ARCH. PLANS	MC	LB	Michael Wachjo
08-04-2022	Α	ISSUED FOR D.A. SUBMISSION	MC	CMcL	B.E.(Civil), MIEAust.
Date:	Issue:	Description:	Ву:	Review:	(Director NB Consulting Engineers) The copyright of this drawing remains with Northern Beaches Consulting Engineers Pty Ltd. Trading as NB Consulting Engineers

TION	Consulting Engineers STRUCTURAL - CIVIL - STORMWATER - REMEDIA A.C.N. 076 121 616 A.B.N. 24 076 121 616
	Sydney : Ph: (02) 9984 7000 Fax: (02) 9984 7444 Suite 207, 30 Fisher Road Dee Why N.S.W. 2099
	Gold Coast: Ph: (07) 5631 4744

Suite 1, 30B Griffith Street Coolangatta QLD 4225

E:nb@nbconsulting.com.au W:www.nbconsulting.com.au

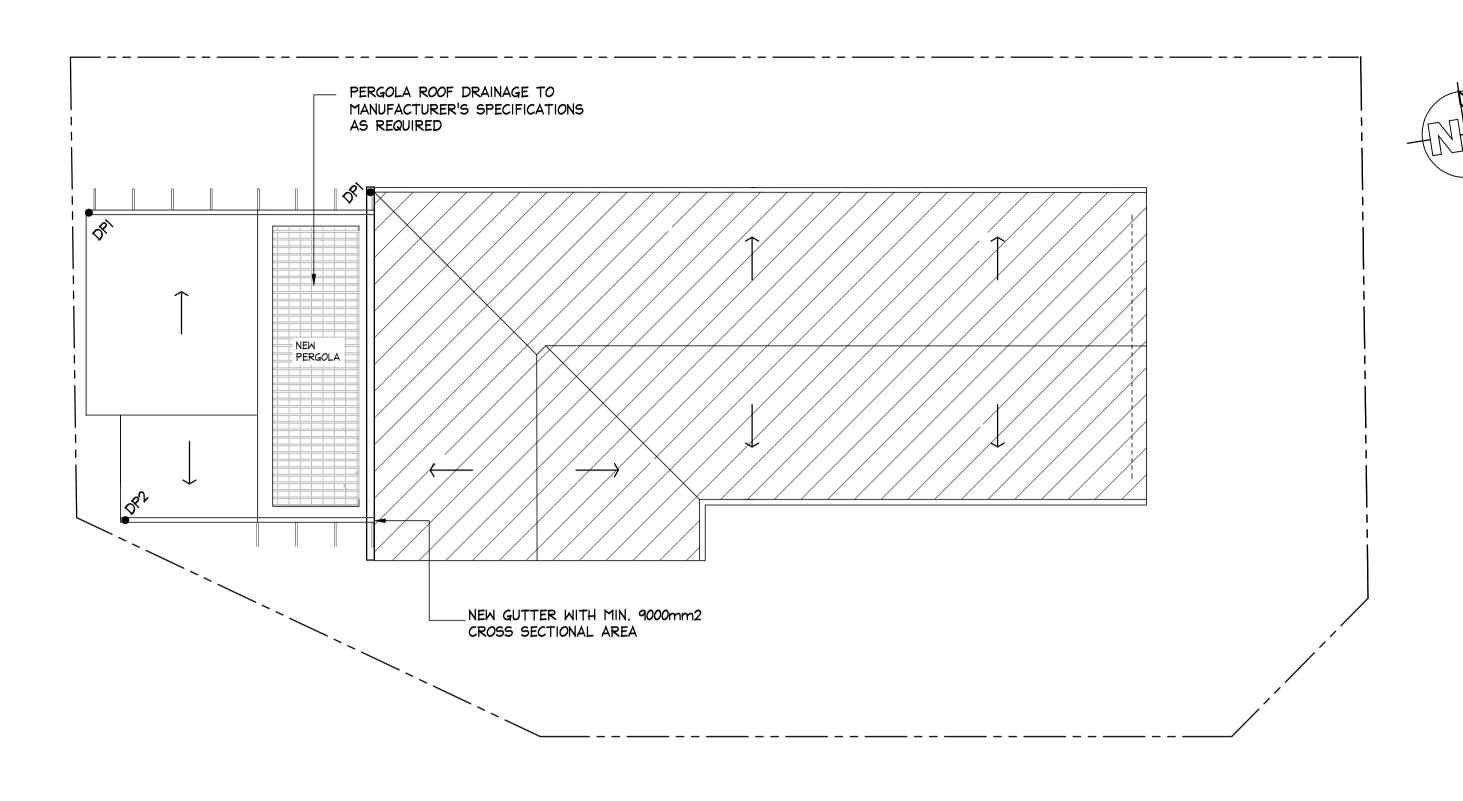
Architect:

STUDIO OULALA	153 BALGOWLAH ROAD, BALG
AUSTIN WARE AND CHARLOTTE VERGNOLLE	Drawing Title: STORMWATER MANAGEI DRAINAGE PLANS

Project: ALTERATIONS AND ADDITIONS 153 BALGOWLAH ROAD, BALGOWLAH	Date:
Drawing Title: STORMWATER MANAGEMENT	Job N

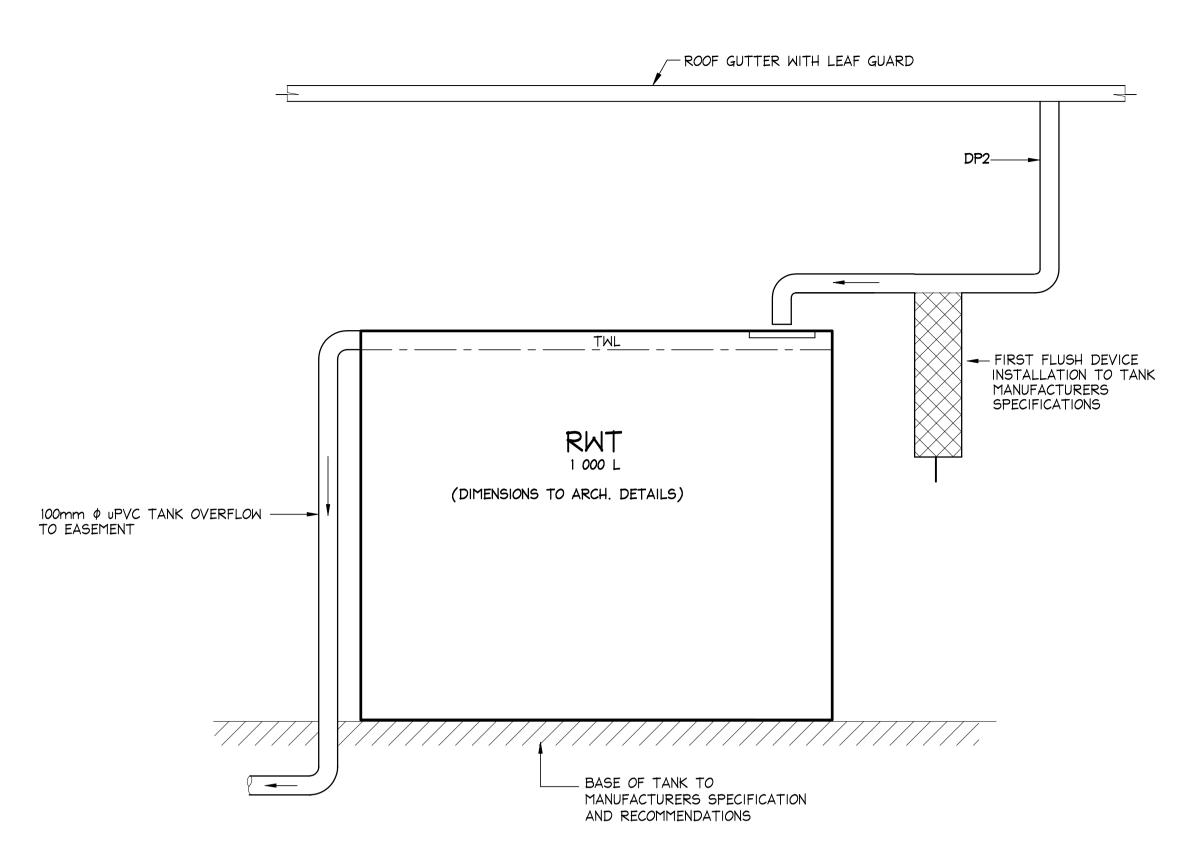
Date:	Design:		Drawn:
MARCH 2022	CF		MC
Job No:		Draw	ing No:

ISSUED FOR D.A.



ROOF - DRAINAGE PLAN

DENOTES EXTENT OF EXISTING ROOF. ROOF DRAINAGE TO REMAIN WHERE ADEQUATE AND UPGRADED AS REQUIRED IN ACCORDANCE WITH AS3500.3. EXISTING ROOF TO DISCHARGE TO DRAINAGE EASEMENT



TYPICAL SECTION RAINWATER RE-USE TANK

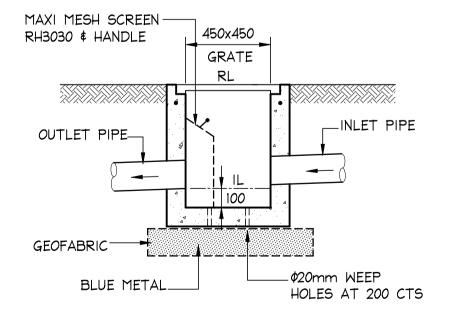
SCALE = N.T.S.



LEGEND: BLACK ON YELLOW BACKGROUND

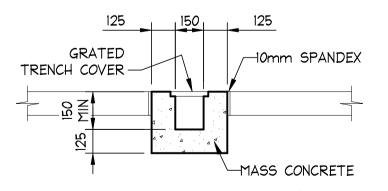
SIGN FOR RWT AND OUTLETS

SCALE = N.T.S.



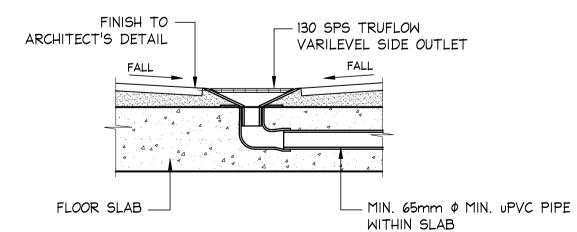
PRECAST OR CAST INSITU PIT REFER STORMWATER NOTES ALTERNATIVE POLYPROPYLENE PIT BY MANUFACTURER

TYPICAL PIT DETAIL SCALE = N.T.S.



OR PRECAST GRATED DRAIN
ALTERNATIVE POLYPROPYLENE DRAIN BY MANUFACTURER

TYPICAL GRATED DRAIN GDI SCALE = 1 : 20



REFER TO MANUFACTURERS SPECIFICATION FOR SPS DRAINAGE OUTLETS STANDARD FLOOR DRAIN - 'FD'

SCALE = N.T.S.

ISSUED FOR D.A. SUBMISSION ONLY NOT FOR CONSTRUCTION

IF IN DOUBT ASK

	Design:
CH 2022	CF

Date:	
MARCH	2022

Drawn: MC

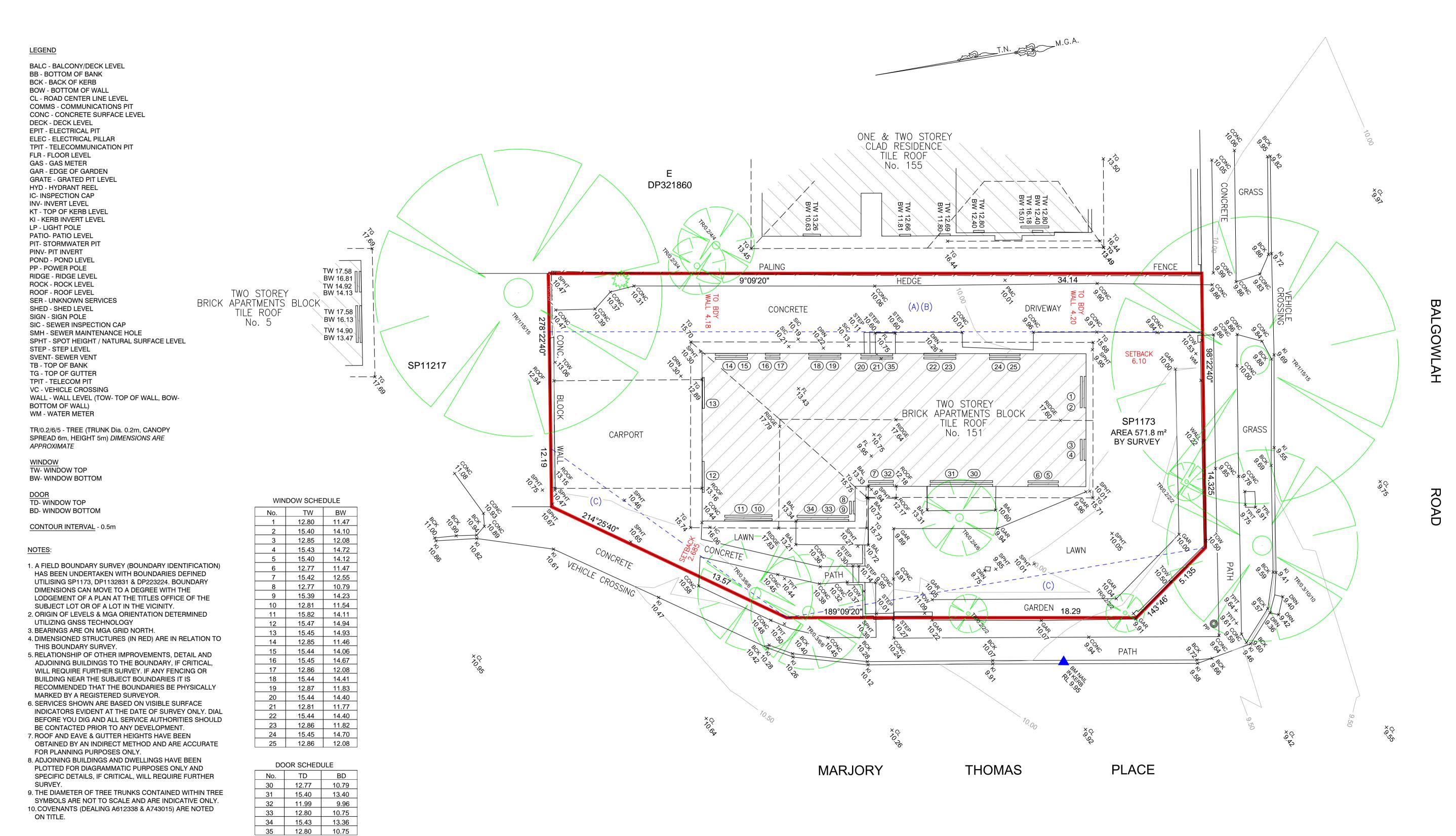
Drawing No:

DOCUMENT CERTIFICATION Date: 13 May '22 Michael Wachjo REVISED TO SUIT NEW ARCH. PLANS 09-05-2022 B.E.(Civil), MIEAust. ISSUED FOR D.A. SUBMISSION 08-04-2022 (Director NB Consulting Engineers) The copyright of this drawing remains with Northern Beaches Consulting Engineers Pty Ltd. Trading as NB Consulting Engineers Issue: Description:

N	Consulting Engineers STRUCTURAL - CIVIL - STORMWATER - REMEDIAL A.C.N. 076 121 616 A.B.N. 24 076 121 616
_	Sydney: Ph: (02) 9984 7000 Fax: (02) 9984 7444
	Suite 207, 30 Fisher Road Dee Why N.S.W. 2099
	Gold Coast: Ph: (07) 5631 4744
	Suite 1, 30B Griffith Street Coolangatta QLD 4225

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Architect: STUDIO OULALA	Project: ALTERATIONS AND ADDITIONS 153 BALGOWLAH ROAD, BALGOWLAH
AUSTIN WARE AND CHARLOTTE VERGNOLLE	STORMWATER MANAGEMENT DRAINAGE PLAN AND DETAILS



NOTES ON TITLE CP/SP1173

1. ATTENTION IS DIRECTED TO CLAUSE 3 SCHEDULE 4 STRATA SCHEMES (FREEHOLD DEVELOPMENT) ACT 1973 REGARDING BOUNDARIES BTEWEEN LOTS AND COMMON PROPERTY IN STRATA SCHEMES REGISTERED BEFORE

1-7-1974. 2. CONSOLIDATION OF REGISTERED (DEALING AN560850). (A) - RIGHT OF WAY 3.05m WIDE (DEALING B869448)

(B) - EASEMENT TO DRAIN WATER 3.05m WIDE (DEALING J765634)

(C) - SITE OF PROPOSED AERIAL TRANSMISSION LINE EASEMENTS VARIABLE WIDTH (CP/SP1173) - NOT NOTED ON TITLE

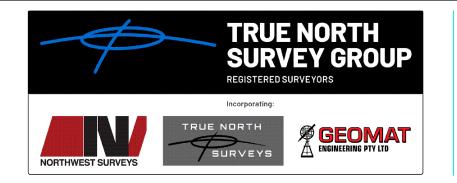
WALL TO BOUNDARIES AS SHOWN IN RED

Allorompay

ANDREW KOROMPAY ID No.SU000114
Surveyor Registered under The Surveying Act, 2002.

0	AK	INITIAL ISSUE	06/12/2021
REVISION	BY	REVISION DESCRIPTION	DATE

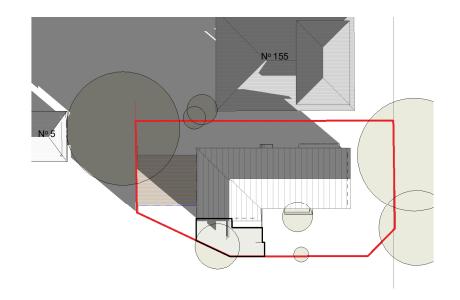
PLAN OF DETAIL OVER 151 BALGOWLAH ROAD, BALGOWLAH NSW 2093.



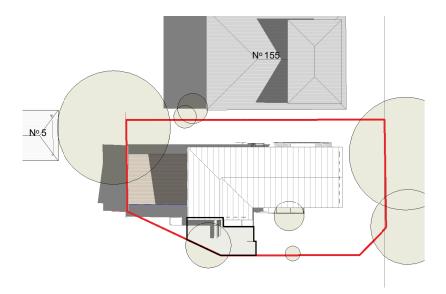
TRUENORTH SURVEY GROUP
A.B.N. 97 106 447 198
Registered Consulting Surveyors
16/9 Narabang Way
Belrose NSW 2085
Tel: (02) 9450 0868
Mob: (0412) 353 784

Email: andrew@truenorthsurveys.com.au

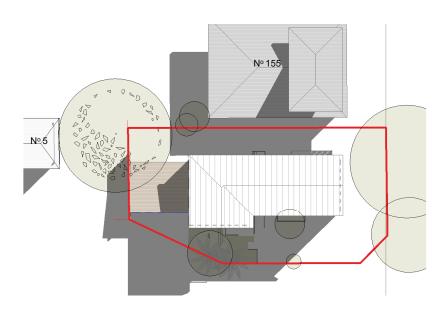
SCALE: 1:100 @ A1 : 1:200 @ A3		DATE: 06/12/2021
CLIENT: THE OWNERS OF SP1173		DATUM: AHD
JOB No. 2401		SHEET 1 OF 1
DRAWN	CHECKED	APPROVED
SJ/GP	AK	AK
DRAWING	No.	REVISION
2401		0



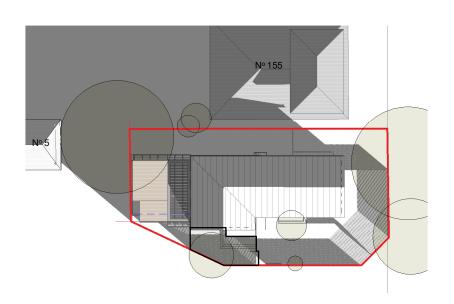
EXISTING PLAN VIEW 9AM WINTER SOLSTICE



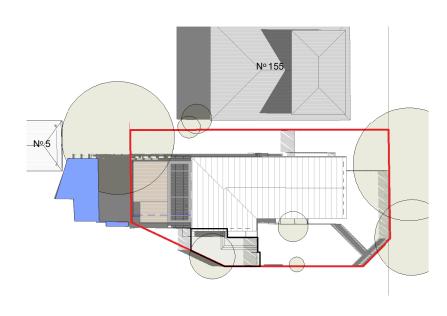
EXISTING PLAN VIEW 12PM WINTER SOLSTICE



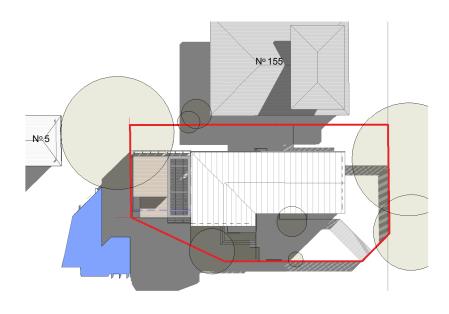
EXISTING PLAN VIEW 3PM WINTER SOLSTICE



PROPOSED PLAN VIEW 9AM WINTER SOLSTICE



PROPOSED PLAN VIEW 12PM WINTER SOLSTICE



PROPOSED PLAN VIEW 3PM WINTER SOLSTICE

LEGEND



EXISTING SHADOW



ADDITIONAL SHADOW

studio oulala

Unit 13, 28-34 Roseberry Street Balgowlah, NSW, 2093

tel +61 (0) 0481 341 417 charlotte@oulalaarchitects.com

DRAWING STATUS

11.05.2022 Issued for DA CV С 02.05.2022 Issued for owner consent CV 27.04.2022 Issued for Information CV Α 23.03.2022 Issue for Information CV REV Date Reason For Issue Chk

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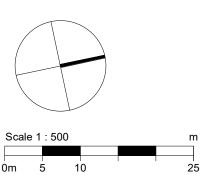
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2101

Austin Ware & Charlotte Vergnolle 3/153 Balgowlah Rd, Balgowlah NSW **Drawing Title**

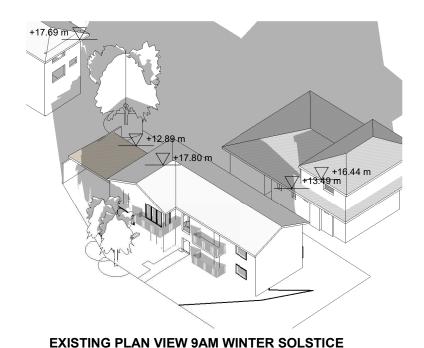
Shadow Diagram Plan

Olladon	Diagraill i lair	
Scale at A3		Revision Date.
Comme		11.05.2022
indiqué.	Rev No.	Drawing No.

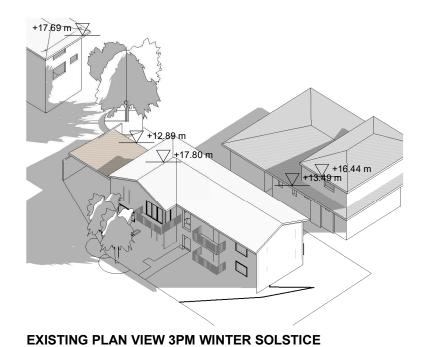
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DA08

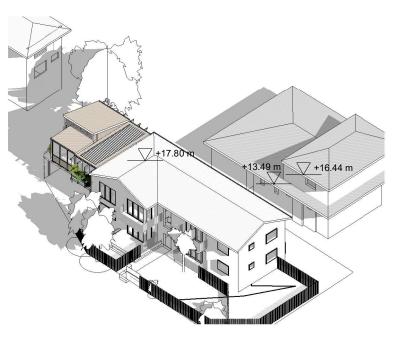
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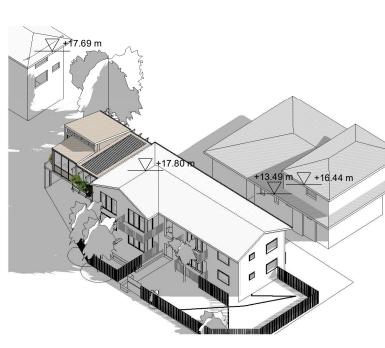












PROPOSED PLAN VIEW 9AM WINTER SOLSTICE

PROPOSED PLAN VIEW 12PM WINTER SOLSTICE

PROPOSED PLAN VIEW 3PM WINTER SOLSTICE

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Shadow Diagram Elevation

Scale at A3

Revision Date. 11.05.2022

Project No. Rev No. Drawing No.

2101 D **DA09**