

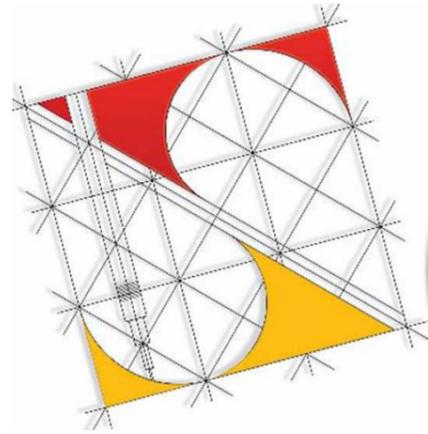
DEVELOPMENT APPLICATION

APPLICATION NUMBER:	PLN-25-236
PROPOSED DEVELOPMENT:	Two Multiple Dwellings (One Existing and One New)
LOCATION:	152 Tolosa Street Glenorchy
APPLICANT:	Urban Space Designers
ADVERTISING START DATE:	13/03/2026
ADVERTISING EXPIRY DATE:	27/03/2026

Plans and documentation are available for inspection at Council's Offices, located at 374 Main Road, Glenorchy between 8.30 am and 5.00 pm, Monday to Friday (excluding public holidays) and the plans are available on Glenorchy City Council's website (www.gcc.tas.gov.au) until **27/03/2026**.

During this time, any person may make representations relating to the applications by letter addressed to the Chief Executive Officer, Glenorchy City Council, PO Box 103, Glenorchy 7010 or by email to gccmail@gcc.tas.gov.au.

Representations must be received by no later than 11.59 pm on **27/03/2026**, or for postal and hand delivered representations, by 5.00 pm on **27/03/2026**.



Urban Space Designers

Building Design and Drafting

GLENORCHY CITY COUNCIL
 PLANNING SERVICES
 APPLICATION No PLN-25-236
 DATE RECEIVED 3 March 2026

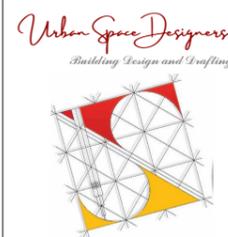
PROPOSED TWO STOREY DWELLING & RENOVATION OF EXISTING HOUSE

AT

152 TOLOSA STREET,
 GLENORCHY
 TAS - 7010

SHEET	REVISION	SHEET NAME
A00	4	COVER SHEET
A01	4	SITE PLAN EXISTING
A02	4	EXISTING HOUSE
A03	4	SITE PLAN - PROPOSED
A04	4	EXISTING HOUSE RENOVATION PLAN
A05	4	ELEVATIONS - EXISTING
A06	4	LOWER FLOOR - PROPOSED UNIT

SHEET	REVISION	SHEET NAME
A07	4	UPPER FLOOR - PROPOSED UNIT
A08	4	ROOF PLAN
A09	4	ELEVATIONS - PROPOSED UNIT
A10	4	SERVICE PLAN
A11	4	SHADOWS
A12	4	SHADOWS
A13	4	SHADOWS



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0402438170

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Website:
www.urbanspacedesigners.com.au

Accreditation:
TAS - 381246362
VIC - DP-AD 72846

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Client:
ROBIN CHHETRI

Project:
PROPOSED DWELLING &
RENOVATION OF EXISTING HOUSE

Address:
152 TOLOSA STREET,
GLENORCHY, TAS- 7010

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4	Drawings rev. as per RFI dt. 25 February 2026	03/03/2026

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Sheet: COVER SHEET		
Drawn: GK		
Scale:	Size: A3	Date: 19/08/2025
Project: 152TSG/Arch/16062025	Sheet: A00	Rev: 4

152 TOLOSA STREET, GLENORCHY, TAS - 7010

Site plan at a scale of 1:200.
The site plan showing Existing building.

C.T. Reference: 82027/2

Property ID: 5397086

Climate Zone: 7
Wind Classification: TBC
Wind Speed (V_{h,u}): TBC
Soil Classification: TBC

Lot Area: 701sqm
Existing House Area: 140sqm

**GLENORCHY CITY COUNCIL
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DEMOLITION NOTES

Generally Demolition works must be carried out in Accordance with AS 2601 - 2001: Demolition of Structures & Regulations 29, 30 & 31 of the Building Regulations (TAS) 2016.

Buildings prior to 1990 MAY contain asbestos. Buildings prior to 1986 ARE LIKELY to contain Asbestos either in Cladding material or in Fire retardant insulation material.

The Builder should check & if necessary, take appropriate action before demolishing, cutting, sanding, drilling or otherwise disturbing the existing structure.

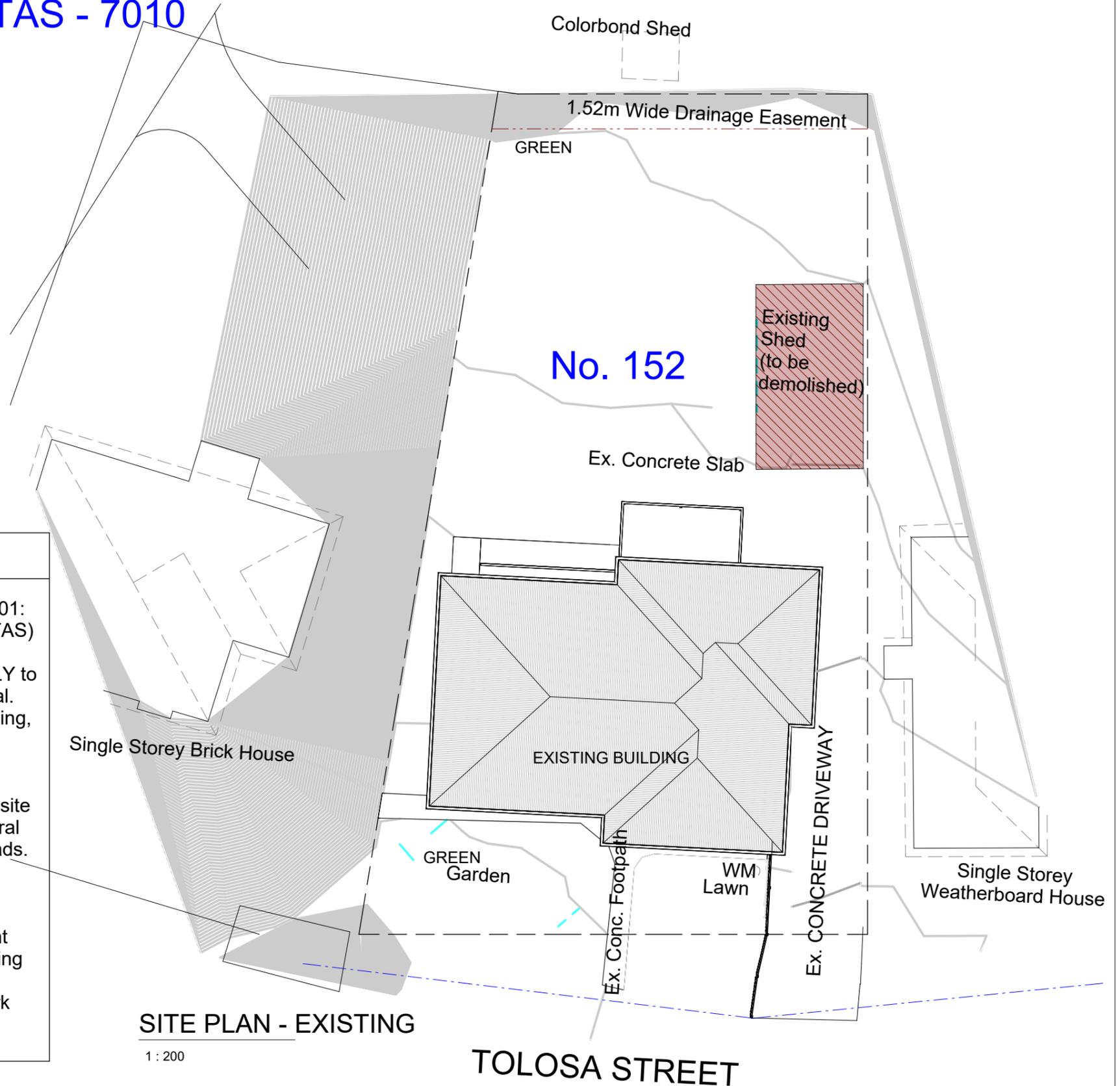
Procedures and methods of Demolition must be adequate to prevent injury to persons & avoid damage to neighboring property.

Before removing existing wall shown to be demolished, Builder shall confirm on - site whether they are Load bearing or not. If it is found to be Load - Bearing, a structural Engineer must be engaged to determine any beams required to support these loads.

All redundant stormwater, sewer and water connections associated with the demolition shall be cut & sealed to the satisfaction of council's Senior Plumbing Inspector.

The removal of existing plumbing fixtures shall include all associated waste & vent pipes, Floor Drains, water service pipework brackets, support etc. & seal off existing services, seal off & make good all floor, wall & roof penetrations.

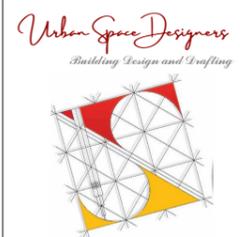
Generally, make good to existing floors, walls, & ceilings where all demolition work occurs to match existing as & where required.



SITE PLAN - EXISTING

1 : 200

TOLOSA STREET



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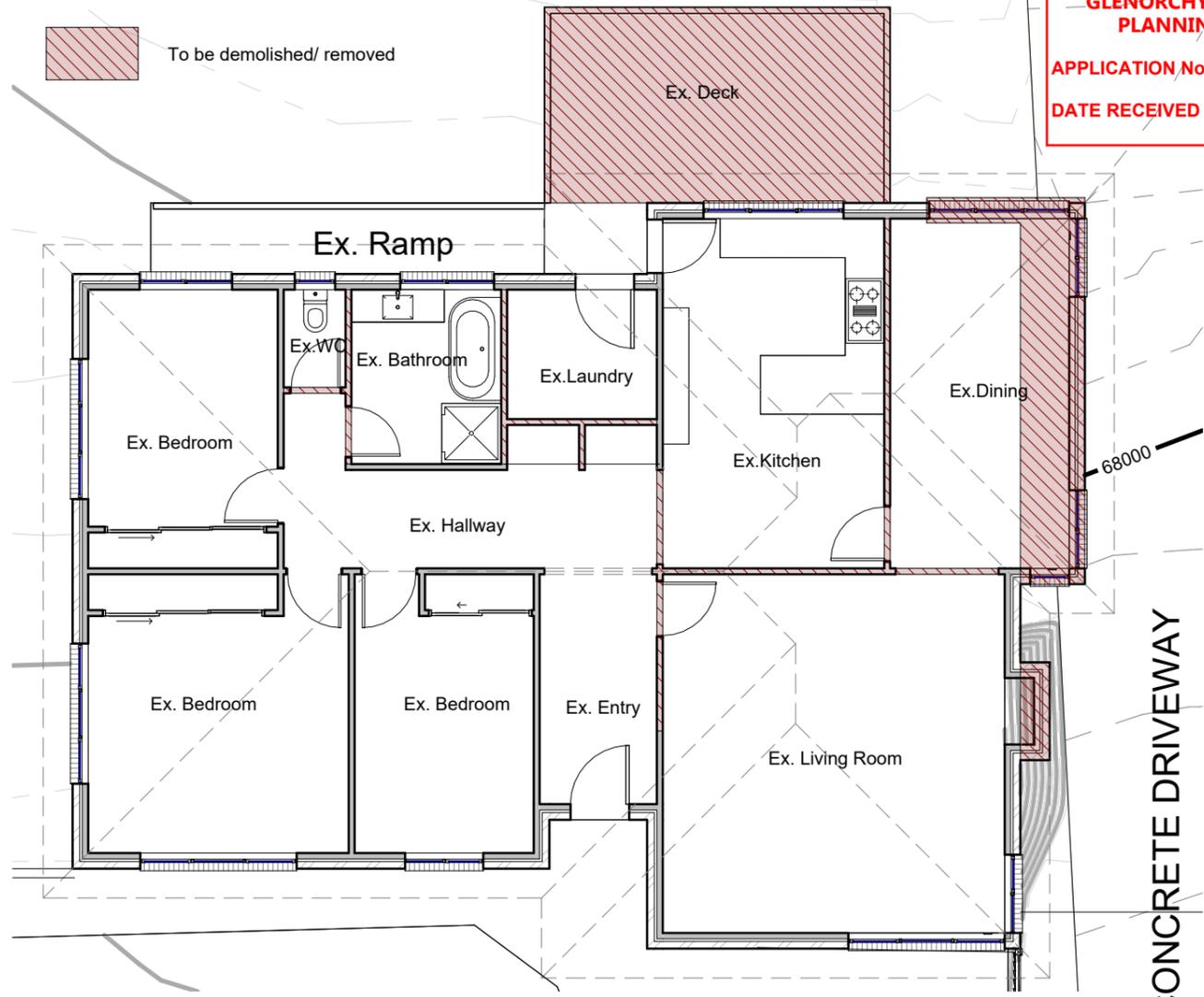
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Sheet: SITE PLAN - EXISTING			
Drawn: GK			
Scale: 1 : 200	Size: A3	Date: 19/08/2025	
Project: 152TSG/Arch/16062025	Sheet: A01	Rev: 4	

**GLENORCHY CITY COUNCIL
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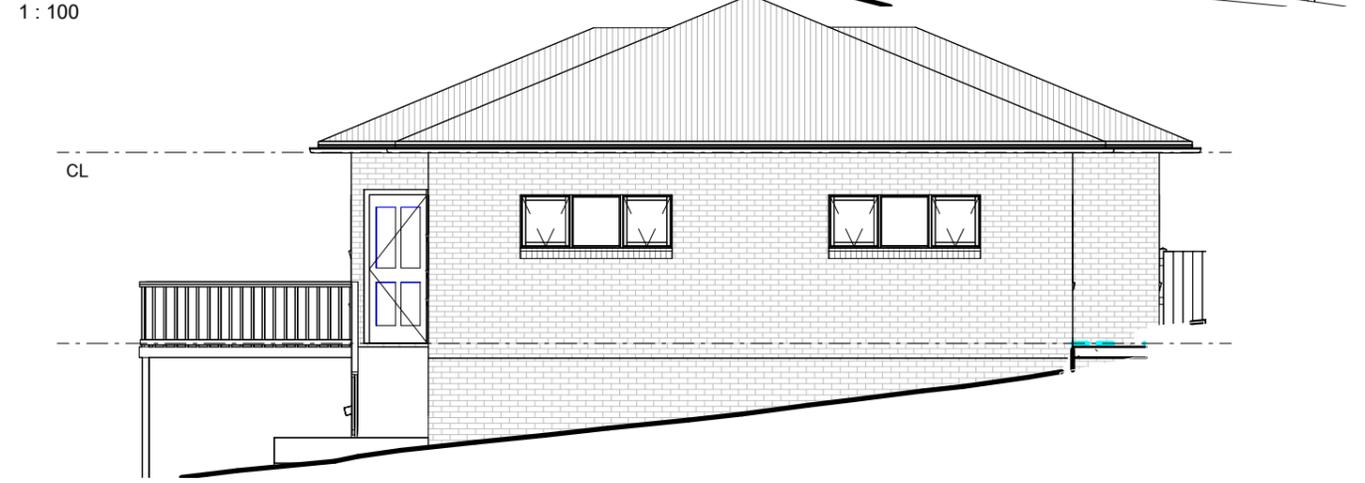
 To be demolished/ removed



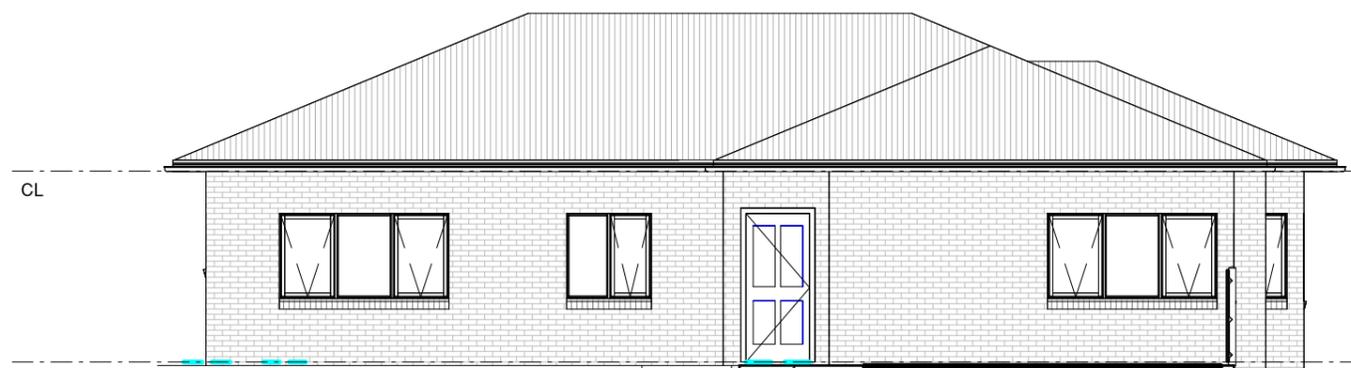
EXISTING FLOOR PLAN
1 : 100



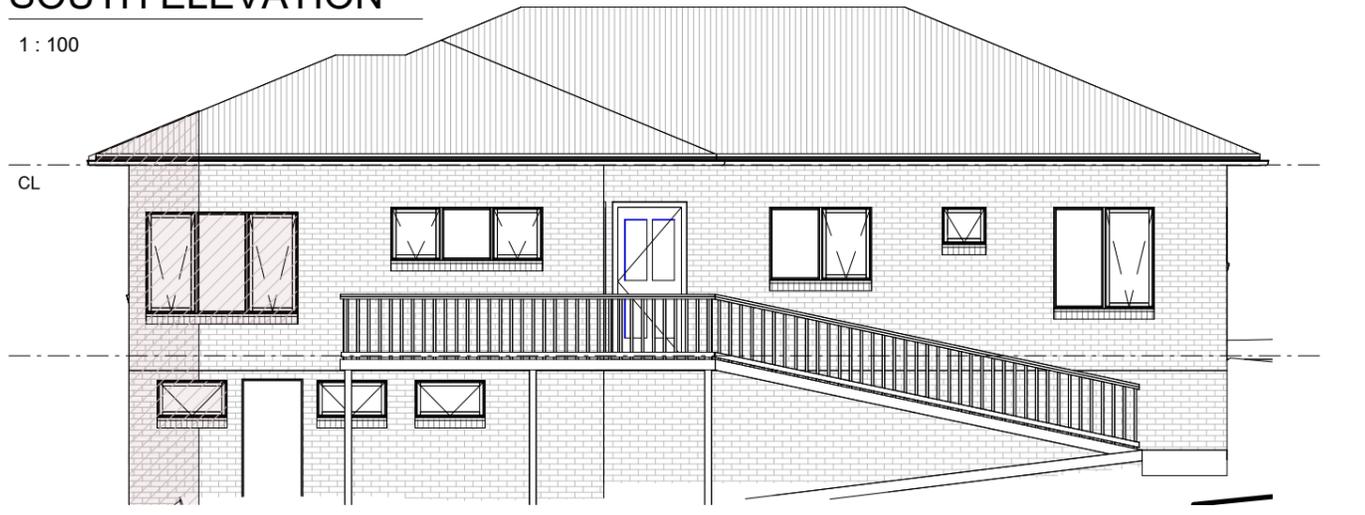
NORTH ELEVATION
1 : 100



SOUTH ELEVATION
1 : 100



EAST ELEVATION
1 : 100



WEST ELEVATION
1 : 100



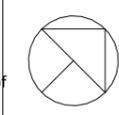
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Client: EXISTING HOUSE			
Drawn: GK			
Scale: 1 : 100	Size: A3	Date: 19/08/2025	
Project: 152TSG/Arch/16062025		Sheet: A02	Rev: 4

152 TOLOSA STREET, GLENORCHY, TAS - 7010

Site plan at a scale of 1:200.

The site plan showing Existing building, Proposed Dwelling, Easements and neighbouring buildings.

Lot Area: 701sqm
 Existing House Area: 140sqm
 Proposed House Area: 124sqm
 Ground Floor: 124sqm
 First Floor: 132sqm

Total Ground Cover: 264sqm (37.70%)

Concrete Driveway: 221.80sqm (31.65%)
 Total Green: 215.20sqm (30.65%)

FINISHES: COLOR / MATERIAL SCHEDULE

EXTERIOR WALLS :

Ground Floor: Brick
 First Floor: Light Weight Cladding

WINDOWS:

Aluminium Powder coating Double Glazed

INTERNAL WALLS:

Painted Stud Walls

ROOF/ GUTTER/ FASCIA:

Colorbond

BOUNDARY FENCE:

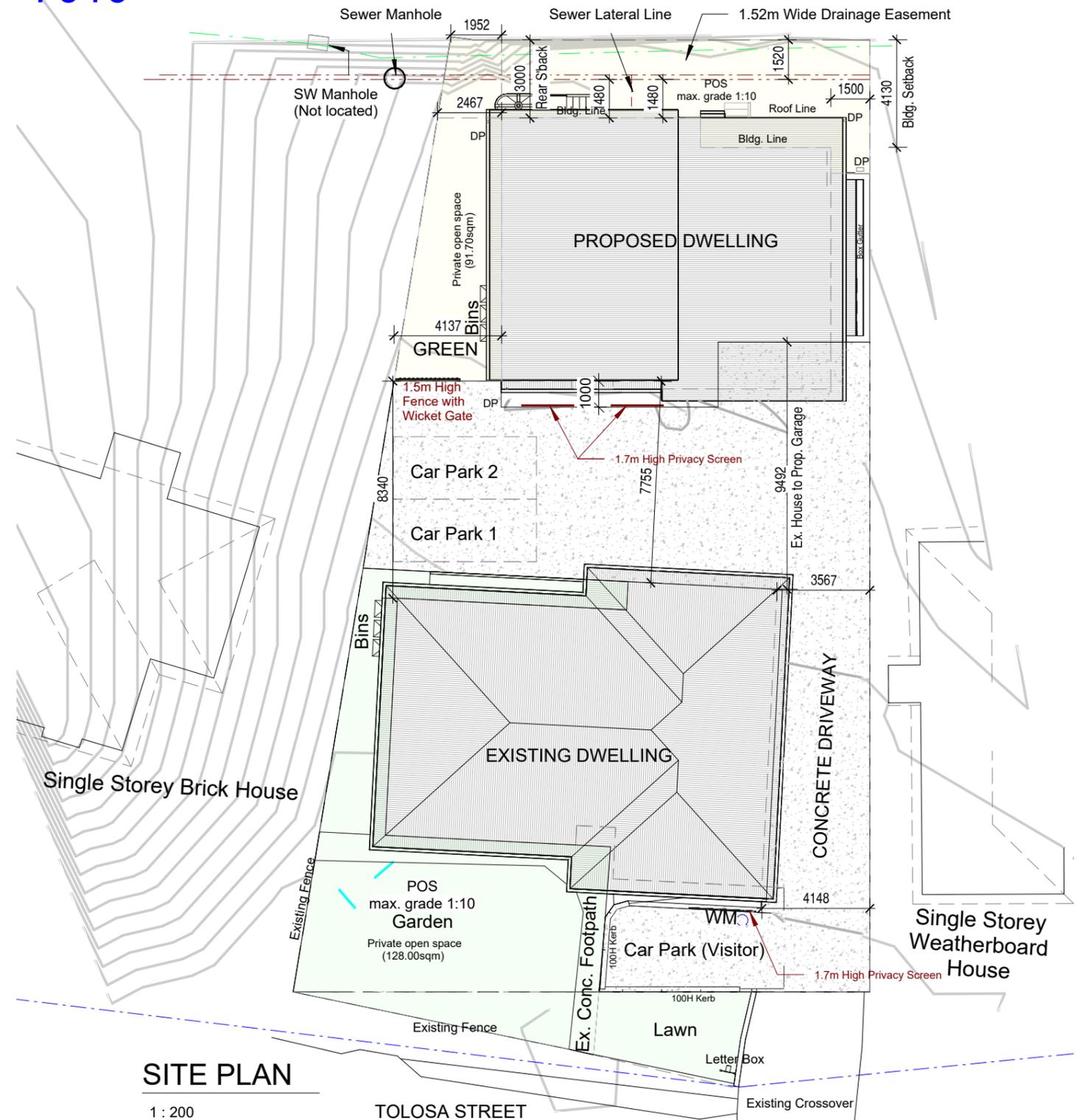
As/ Existing

DRIVEWAY:

As/ Existing to continue to the new Dwelling.

NOTE: BATHROOM, ENSUITE AND LAUNDRY WINDOWS ARE TO BE OBSCURE GLASS.

ALL INTERNAL DOORS ARE STANDARD. THE REFLECTIVITY INDEX USED IN THE EXTERNAL FACADE OF THE BUILDING NOT TO EXCEED 20 PERCENT. EAVES VENTS SHOULD BE EVENLY SPACED



SITE PLAN

1 : 200

TOLOSA STREET

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 Project: PROPOSED DWELLING & RENOVATION OF EXISTING HOUSE
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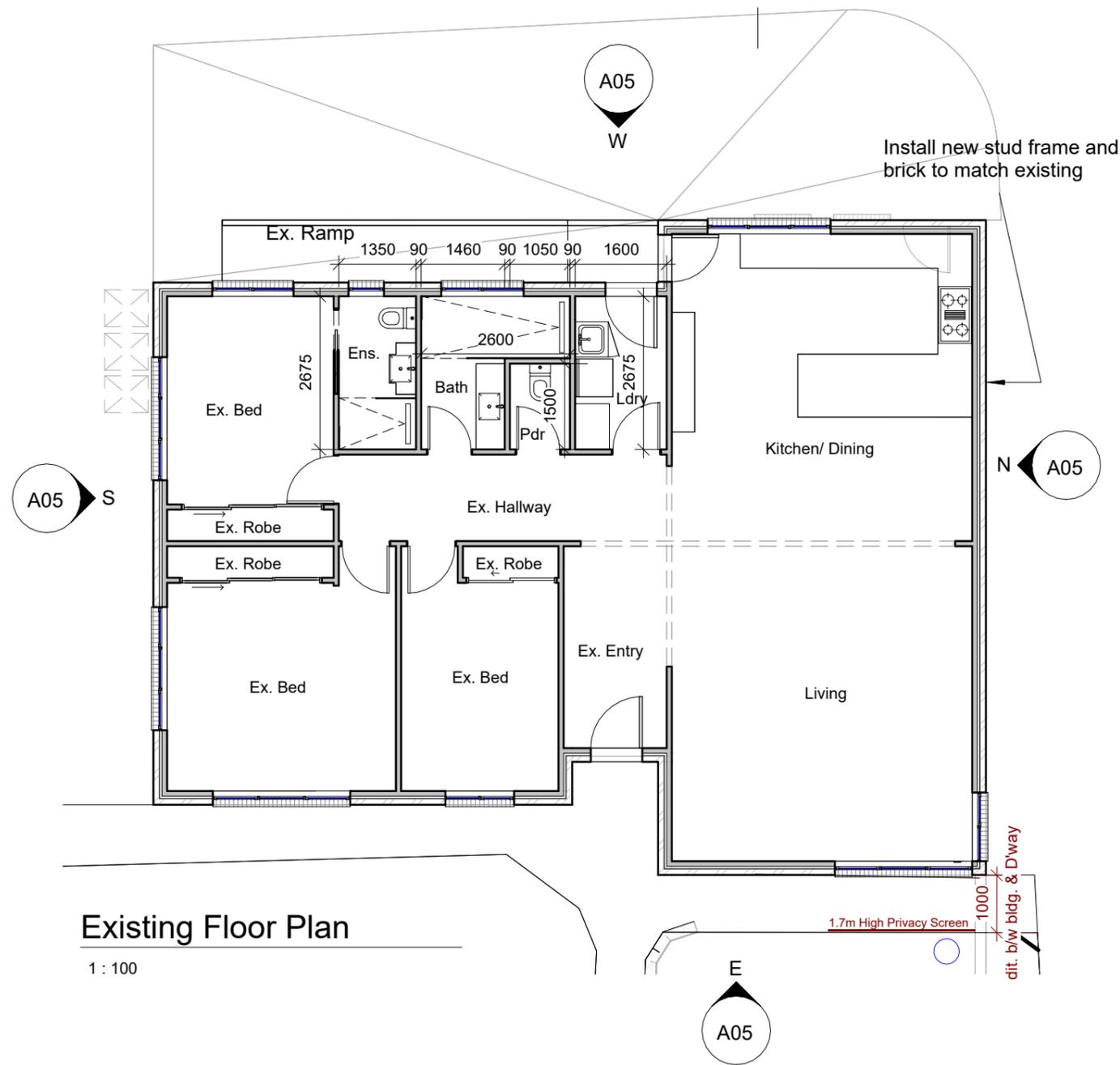
Sheet: SITE PLAN - PROPOSED			
Drawn: GK			
Scale: 1 : 200	Size: A3	Date: 19/08/2025	
Project: 152TSG/Arch/16062025	Sheet: A03	Rev: 4	

- INSULATION: R5.0 TO CEILINGS AND R2.5 TO EXTERNAL WALLS.
- WINDOWS / DOORS: BUILDING GENERALLY WILL BE SEALED TO PREVENT AIR LEAKAGE.

**GLENORCHY CITY COUNCIL
PLANNING SERVICES**

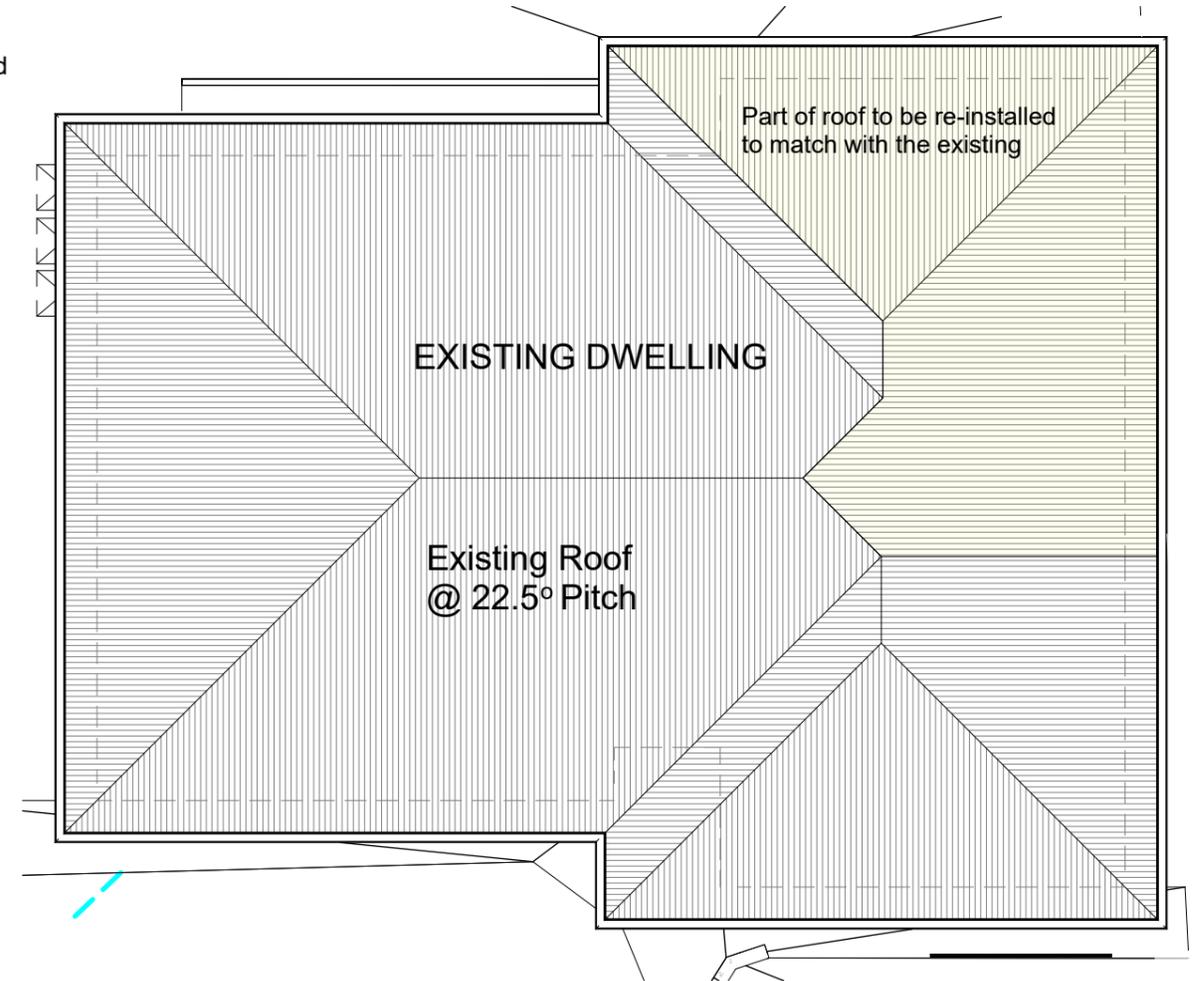
APPLICATION No ... PLN-25-236

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Existing Floor Plan

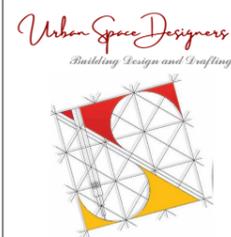
1 : 100



Existing House Roof Plan

1 : 100

- CONFIRM MANHOLE ACCESS TO ROOF SPACES ON SITE
- A/C SERVICES, DUCTING & FIXTURE LOCATIONS TO BE DETERMINED ON SITE
- EXHAUST RANGEHOOD EXTERNALLY -CONFIRM ON SITE
- FLOOR WASTES TO KITCHEN, L'DRY & PDR TO BE CONFIRMED ON SITE



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Sheet: EXISTING HOUSE RENOVATION PLAN			
Drawn: GK			
Scale: 1 : 100	Size: A3	Date: 19/08/2025	
Project: 152TSG/Arch/16062025	Sheet: A04	Rev: 4	



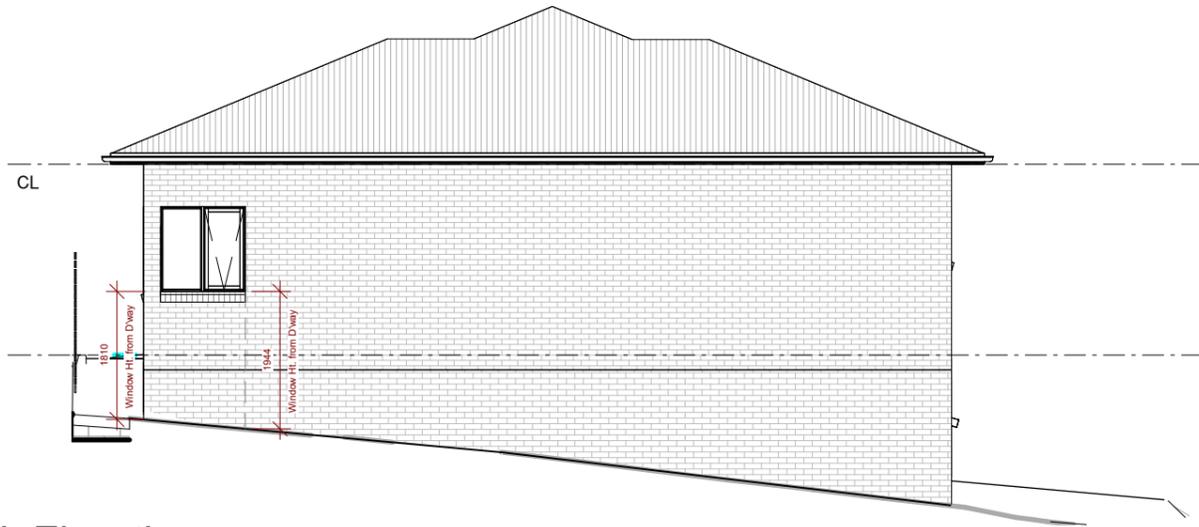
East Elevation

1 : 100



South Elevation

1 : 100



North Elevation

1 : 100



West Elevation

1 : 100

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Sheet: ELEVATIONS - EXISTING		
Drawn: GK		
Scale: 1 : 100	Size: A3	Date: 19/08/2025
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F8D3 External wall construction

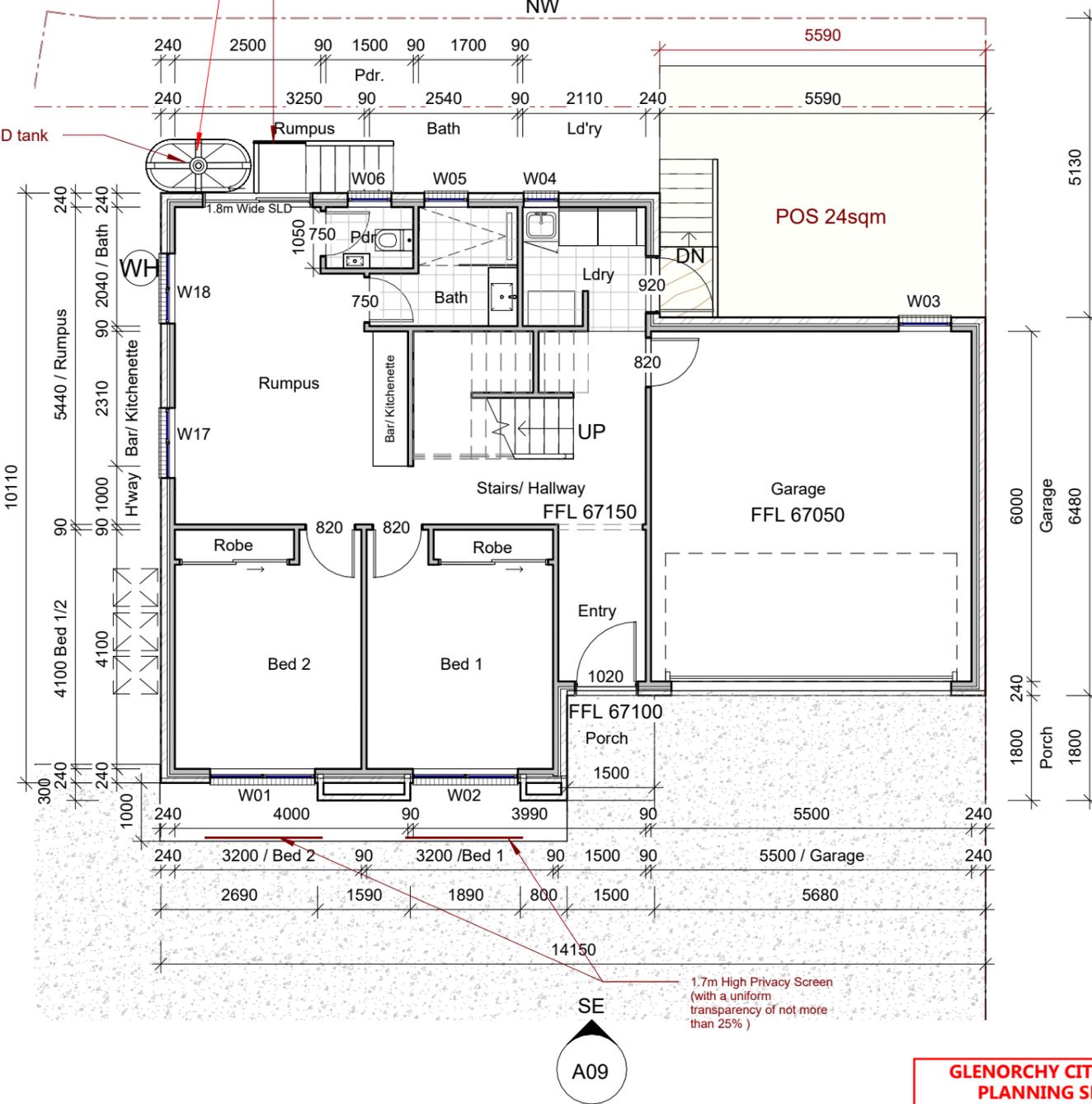
2 (b) for climate zone 6,7,& 8, 1.14 µg/N.s

Class 4 vapour control membranes meet the vapour permeance requirements of F8D3(2)(b).
One vent be installed for every 90m2 of roof space.

5,000L RWT & OSD Combined with a minimum detention capacity of 3,000L

1.7m High Privacy Screen
(with a uniform transparency of not more than 25%)

5000Ltrs. RW & OSD tank



Framing part H1D6 NCC

All timber framing, fixing and bracing shall comply with AS 1684 and the requirements of NCC part H1D6. Manufactured sizes must not be undersized to those specified, for all timber sizes, stress grades, spacing and wall bracing refer to Engineer's details. Structural steel members shall comply with the requirements of clauses in part 6.3. Refer to Engineer's details where provided.

Glazing part 8.3

NCC All windows to be aluminium awning style, double glazed (obscured safety glass to bathrooms as shown on drawings) all glazing shall comply with the requirements of AS 2047-AS 1288 and NCC clauses in part 8.3

Human impact safety requirements shall comply with NCC clauses 8.4 pane within 500mm from finished floor level & glazed full height

Note:

Builder and subcontractors to verify all dimension and levels prior to the commencement of any work. Give 24hrs minimum notice where amendments are required to design of working drawings. These drawings are to be read in conjunction with Engineer's and Surveyor's drawings and notes. Do not scale drawings. Dimensions are to take preference over scale. Building specification and Engineer's drawings shall override architectural drawings. All construction work shall be carried out in accordance with the state building regulations, local council by-laws and relevant NCC and AS codes.

Energy efficiency bulk insulation between external studs to be insulated with min R2.5. (Ensure batts fit within cavity without compression, making sure that there is at least 25mm gap from the reflective surface). External walls are to be clad with perforated reflective foil over the outside of the timber frame. Ceiling to be insulated with R5.0 and reflective foil. Floor to be insulated with R2.0 batts. Seal exhaust fans to Ensuite, Bathroom, Laundry and Kitchen. Building to be sealed in accordance with BCA 2019 Part 3.12 Construction of the external walls, floor and roof compliance of air leakage to comply with NCC part 3.14

Notes:

Clearances between Cladding and Ground shall comply with Clause 7.5.7 of the NCC 2022 and shall be a minimum of:

- 100mm in low rainfall intensity areas or sandy, well - drained areas; or
- 50mm above Impermeable areas that slope away from the Building; or
- 150mm in any other case.

Wall Cladding must extend a minimum of 50mm below the Bearer or lowest horizontal part of the suspended floor framing.

Unless Noted otherwise in Builder's specifications or located in Saline environments or if using a glazed finish Brick, Brickwork is to be installed in Stretcher bond pattern with raked joints.

As per NCC parts 11.3.7 and 11.3.8, Openable windows greater than 4m above Ground level are to be fitted with a device to limit the opening or a suitable screen so a 125mm sphere cannot pass through, and withstand a force of 250N. Except for Bedrooms, where the requirement is for heights above 2m.

Staircase Notes:

All stairs to be constructed in Accordance with NCC 2022 Vol II Part 11.2.2 Parameters shall be as follows:-
Risers max. 190mm, min 115mm, Treads max. 355mm, min 240mm, Slope (2R+G): Max. 550mm - min. 700mm

Provide at least One(1) Continuous Handrail for full flight of stairs, minimum 865mm above Nosings. Treads of internal Stairs must have a Slip-Resistance classification of 'P3', and shall be fitted with a nosing strip with a Slip-Resistance classification of 'P3' when tested in accordance with AS4586 (dry surface conditions). Handrails shall be no less than 865mm above Tread Nosings and 1000mm above Landing F.F.L.

Lower Floor

1 : 100

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Client:
ROBIN CHHETRI

Project:
PROPOSED DWELLING &
RENOVATION OF EXISTING HOUSE

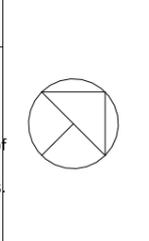
Address:
152 TOLOSA STREET,
GLENORCHY, TAS- 7010

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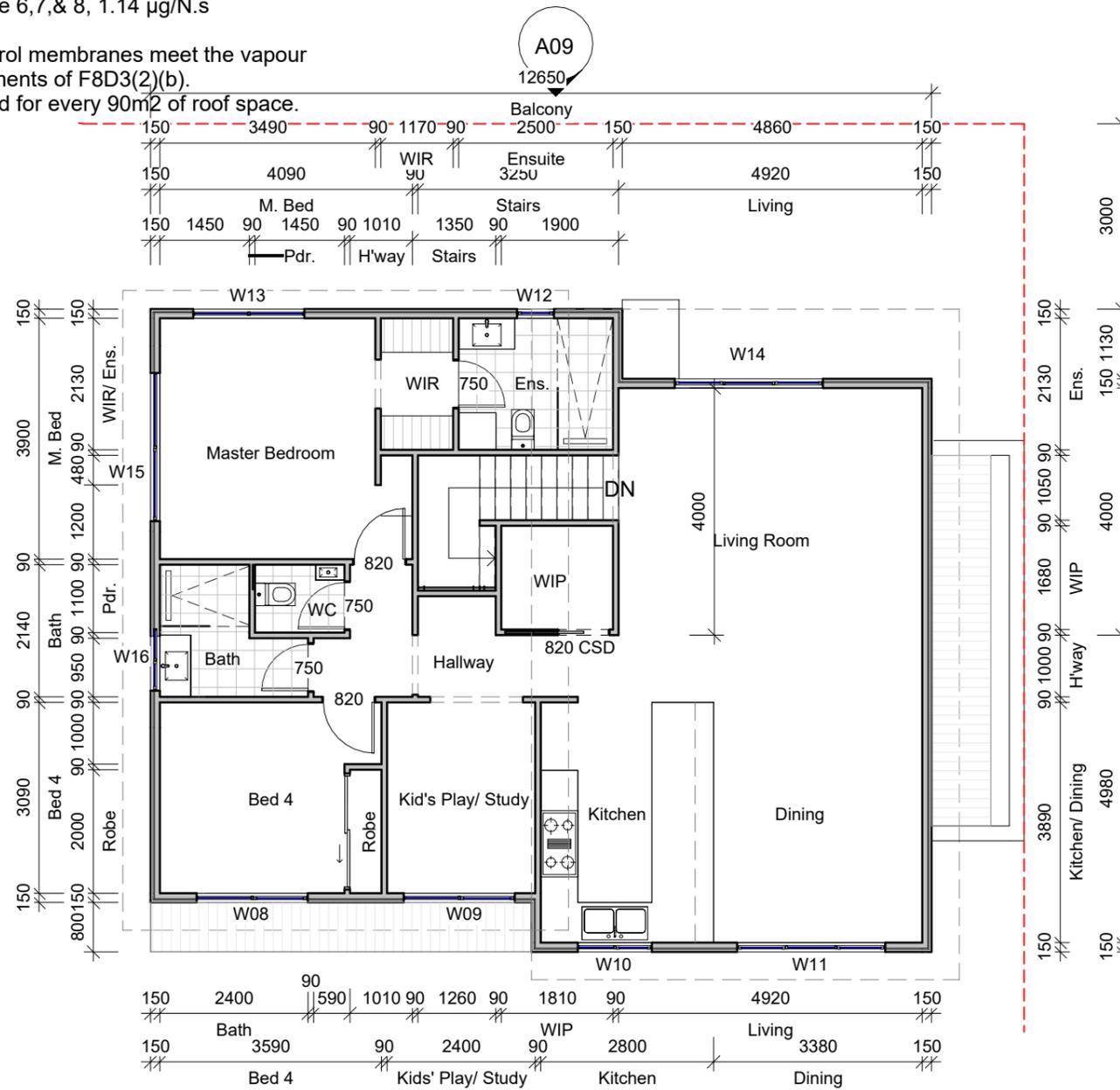


Sheet: LOWER FLOOR - PROPOSED UNIT			
Drawn: GK			
Scale: 1 : 100	Size: A3	Date: 19/08/2025	
Project: 152TSG/Arch/16062025	Sheet: A06	Rev: 4	

F8D3 External wall construction

2 (b) for climate zone 6,7,& 8, 1.14 µg/N.s

Class 4 vapour control membranes meet the vapour permeance requirements of F8D3(2)(b).
One vent be installed for every 90m² of roof space.



Framing part H1D6 NCC

All timber framing, fixing and bracing shall comply with AS 1684 and the requirements of NCC part H1D6. Manufactured sizes must not be undersized to those specified, for all timber sizes, stress grades, spacing and wall bracing refer to Engineer's details. Structural steel members shall comply with the requirements of clauses in part 6.3. Refer to Engineer's details where provided.

Glazing part 8.3

NCC All windows to be aluminium awning style, double glazed (obscured safety glass to bathrooms as shown on drawings) all glazing shall comply with the requirements of AS 2047-AS 1288 and NCC clauses in part 8.3

Human impact safety requirements shall comply with NCC clauses 8.4 pane within 500mm from finished floor level & glazed full height

Note:

Builder and subcontractors to verify all dimension and levels prior to the commencement of any work. Give 24hrs minimum notice where amendments are required to design of working drawings. These drawings are to be read in conjunction with Engineer's and Surveyor's drawings and notes. Do not scale drawings. Dimensions are to take preference over scale. Building specification and Engineer's drawings shall override architectural drawings. All construction work shall be carried out in accordance with the state building regulations, local council by-laws and relevant NCC and AS codes.

Energy efficiency bulk insulation between external studs to be insulated with min R2.5. (Ensure batts fit within cavity without compression, making sure that there is at least 25mm gap from the reflective surface). External walls are to be clad with perforated reflective foil over the outside of the timber frame. Ceiling to be insulated with R5.0 and reflective foil. Floor to be insulated with R2.0 batts. Seal exhaust fans to Ensuite, Bathroom, Laundry and Kitchen. Building to be sealed in accordance with BCA 2019 Part 3.12 Construction of the external walls, floor and roof compliance of air leakage to comply with NCC part 3.14

Notes:

Clearances between Cladding and Ground shall comply with Clause 7.5.7 of the NCC 2022 and shall be a minimum of:

1. 100mm in low rainfall intensity areas or sandy, well - drained areas; or
2. 50mm above Impermeable areas that slope away from the Building; or
3. 150mm in any other case.

Wall Cladding must extend a minimum of 50mm below the Bearer or lowest horizontal part of the suspended floor framing.

Unless Noted otherwise in Builder's specifications or located in Saline environments or if using a glazed finish Brick, Brickwork is to be installed in Stretcher bond pattern with raked joints.

As per NCC parts 11.3.7 and 11.3.8, Openable windows greater than 4m above Ground level are to be fitted with a device to limit the opening or a suitable screen so a 125mm sphere cannot pass through, and withstand a force of 250N. Except for Bedrooms, where the requirement is for heights above 2m.

Staircase Notes:

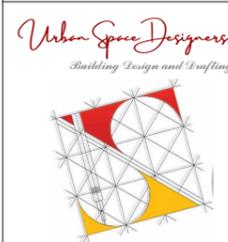
All stairs to be constructed in Accordance with NCC 2022 Vol II Part 11.2.2 Parameters shall be as follows:-
Risers max. 190mm, min 115mm, Treads max. 355mm, min 240mm, Slope (2R+G): Max. 550mm - min. 700mm

Provide at least One(1) Continuous Handrail for full flight of stairs, minimum 865mm above Nosings.
Treads of internal Stairs must have a Slip-Resistance classification of 'P3', and shall be fitted with a nosing strip with a Slip-Resistance classification of 'P3' when tested in accordance with AS4586 (dry surface conditions).
Handrails shall be no less than 865mm above Tread Nosings and 1000mm above Landing F.F.L.

**GLENORCHY CITY COUNCIL
PLANNING SERVICES**
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Upper Floor

1 : 100



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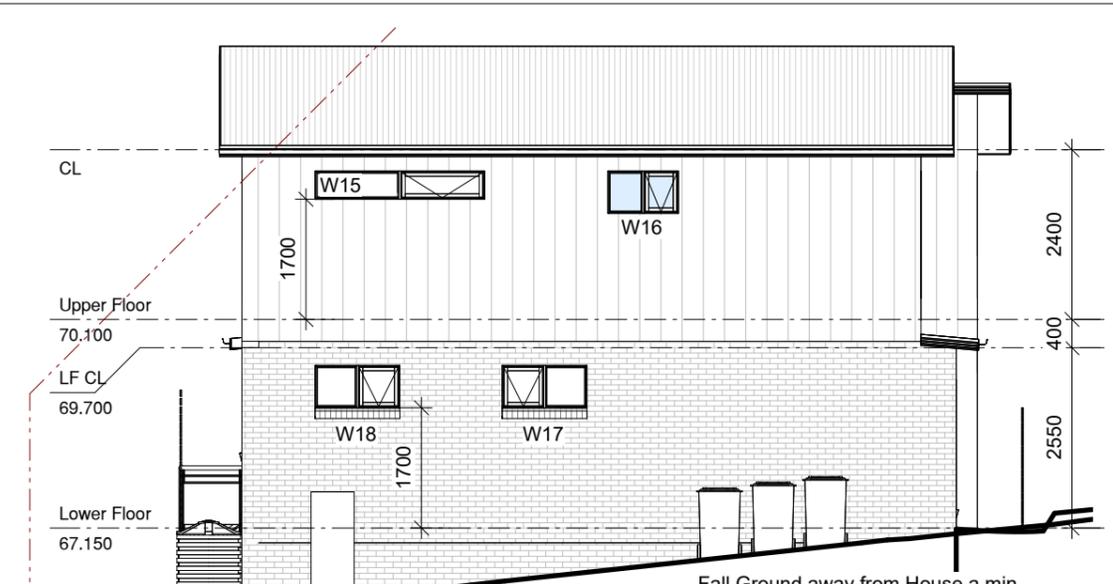
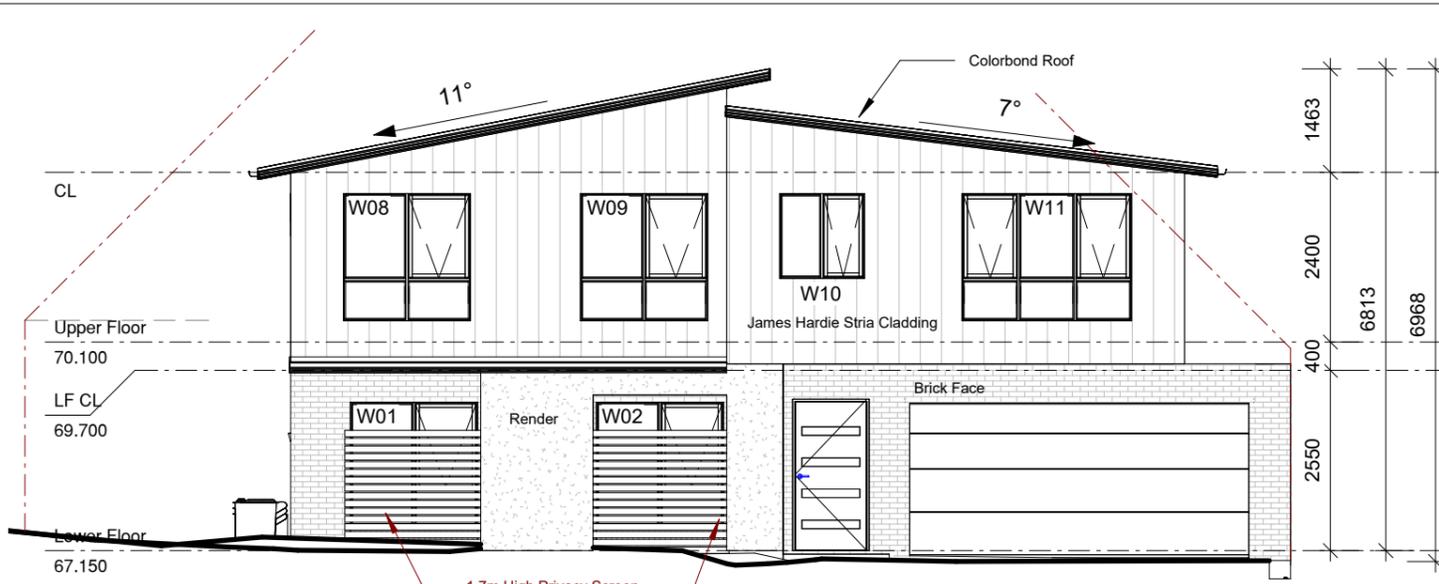
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Sheet: UPPER FLOOR - PROPOSED UNIT			
Drawn: GK			
Scale: 1 : 100	Size: A3	Date: 19/08/2025	
Project: 152TSG/Arch/16062025	Sheet: A07	Rev: 4	



SE Elevation

1 : 100

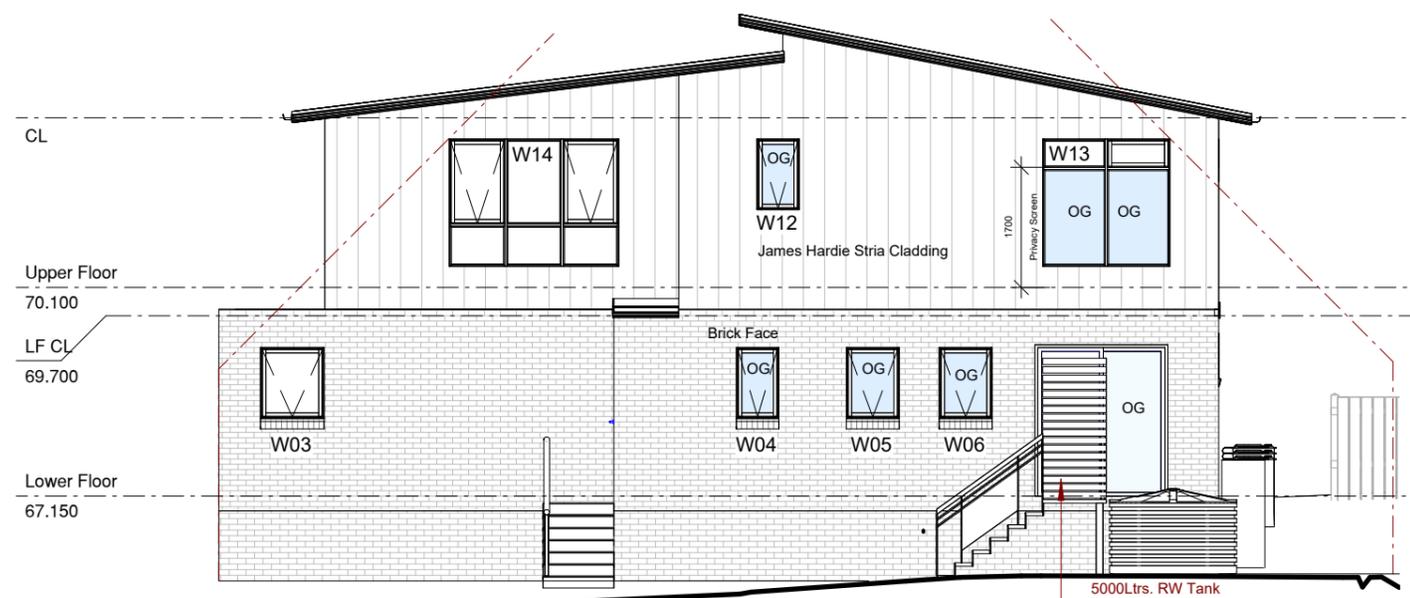
**GLENORCHY CITY COUNCIL
PLANNING SERVICES**
APPLICATION No ... PLN-25-236
DATE RECEIVED ... 3 March 2026

Window Schedule				
Number	Width	Height	Sill Height	Head Height
W01	1800	1800	300	2100
W02	1800	1800	300	2100
W03	900	1000	1100	2100
W04	600	1000	1100	2100
W05	750	1000	1100	2100
W06	750	1000	1100	2100
W08	1800	1800	300	2100
W09	1800	1800	300	2100
W10	1200	1200	900	2100

Window Schedule				
Number	Width	Height	Sill Height	Head Height
W11	2400	1800	300	2100
W12	600	1000	1100	2100
W13	1800	1800	300	2100
W14	2400	1800	300	2100
W15	2400	400	1700	2100
W16	1000	600	1500	2100
W17	1200	600	1700	2300
W18	1200	600	1700	2300
W20	990	520	2980	3500

SW Elevation

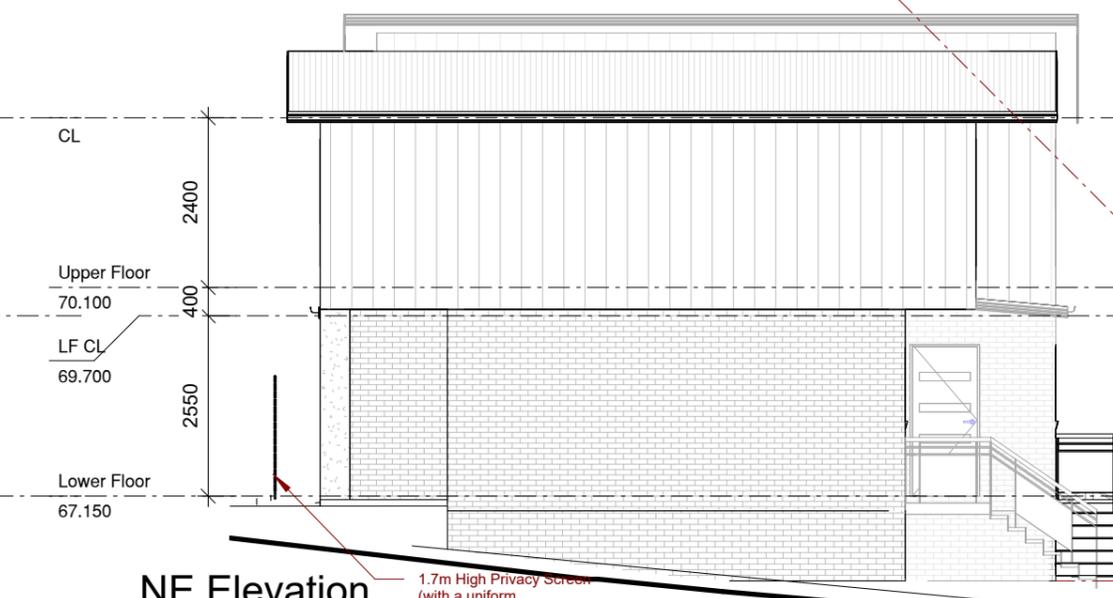
1 : 100



NW Elevation

1 : 100

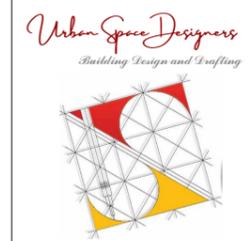
Fall Ground away from House a min. of 50mm over the first 1000mm in Aaccordance with AS2870, NCC 2022 Part 3.3.3 & Fig. 3.3.3a



NE Elevation

1 : 100

Fall Ground away from House a min. of 50mm over the first 1000mm in Aaccordance with AS2870, NCC 2022 Part 3.3.3 & Fig. 3.3.3a



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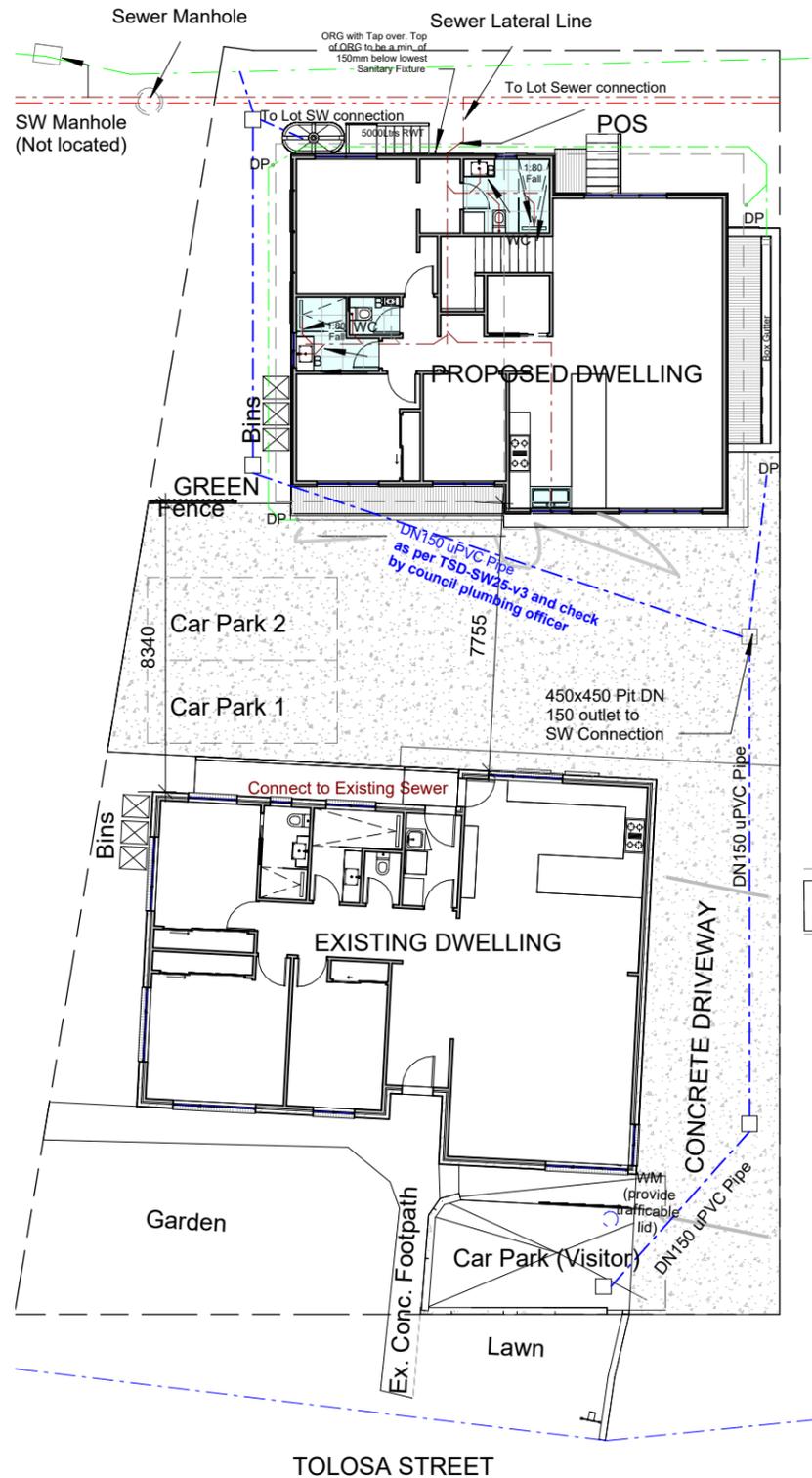
Client:
ROBIN CHHETRI
Project:
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Address:
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Sheet: ELEVATIONS - PROPOSED UNIT			
Drawn: GK			
Scale: 1 : 100	Size: A3	Date: 19/08/2025	
Project: 152TSG/Arch/16062025	Sheet: A09	Rev: 4	

REFER ENGINEER'S DRAWINGS FOR DETAIL SERVICE PLAN LAYOUT.

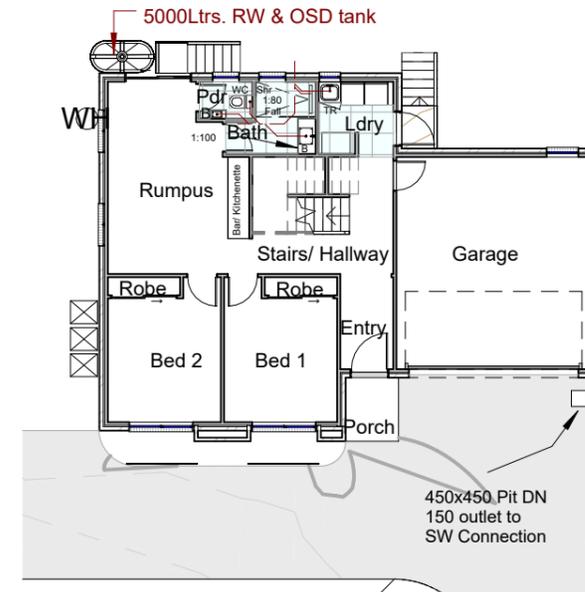


DRAINAGE LEGEND		
Abbreviation	Fixture	Min. Outlet Size (dia)
B	BASIN	40
BTH	BATH	40
SHR	SHOWER	40
S	SINK	50
TR	TROUGH	40
WC	WATER CLOSET PAN	100
DP	DOWNPIPE	90

NOTES:
Waterproof Membrane not required below Pre - Formed Shower Bases, but still required at Penetrations (including floor waste)

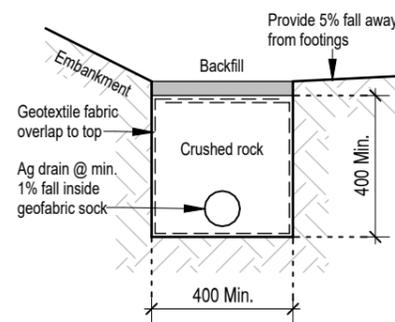
Climatic Zone	Min. Aggregate Subfloor Ventilation openings with no membrane (mm ² /m of wall)	Min. Aggregate Subfloor Ventilation openings with ground sealed with Impervious membrane (mm ² /m of wall)
A	2000	1000
B	4000	2000
C	6000	3000

Climatic Zone	Minimum ground clearance height where termite inspection or management system is not required (mm)	Minimum ground clearance height where termite inspection is required (mm)
A,B and C	150	400



Lower Floor Service Plan

1 : 200



Ag Drain Detail TYP.

1 : 20

SERVICE PLAN

1 : 200



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PLANNING SERVICES**

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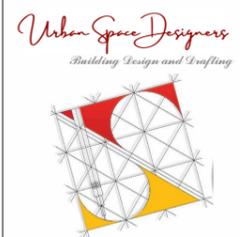
Sheet: SERVICE PLAN		
Drawn: GK		
Scale: As indicated	Size: A3	Date: 19/08/2025
Project: 152TSG/Arch/16062025	Sheet: A10	Rev: 4

- NO UNREASONABLE REDUCTION IN SUNLIGHT TO AN EXISTING SOLAR ENERGY INSTALLATION ON AN ADJOINING PROPERTY FOR THE SHADOWS.
- THE MORNING SHADOW AT 9AM IS FROM THE EXISTING DWELLING WHEREAS THE PROPOSED DWELLING HAS NO IMPACT ON ANY ADJOINING DWELLING.
- THE NORTH FACING SIDES OF THE DWELLINGS ARE CLEAR FROM ANY IMPACT.



**GLENORCHY CITY COUNCIL
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APPLICATION No ... PLN-25-236
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SHADOW @ 9AM 21st June
1 : 200



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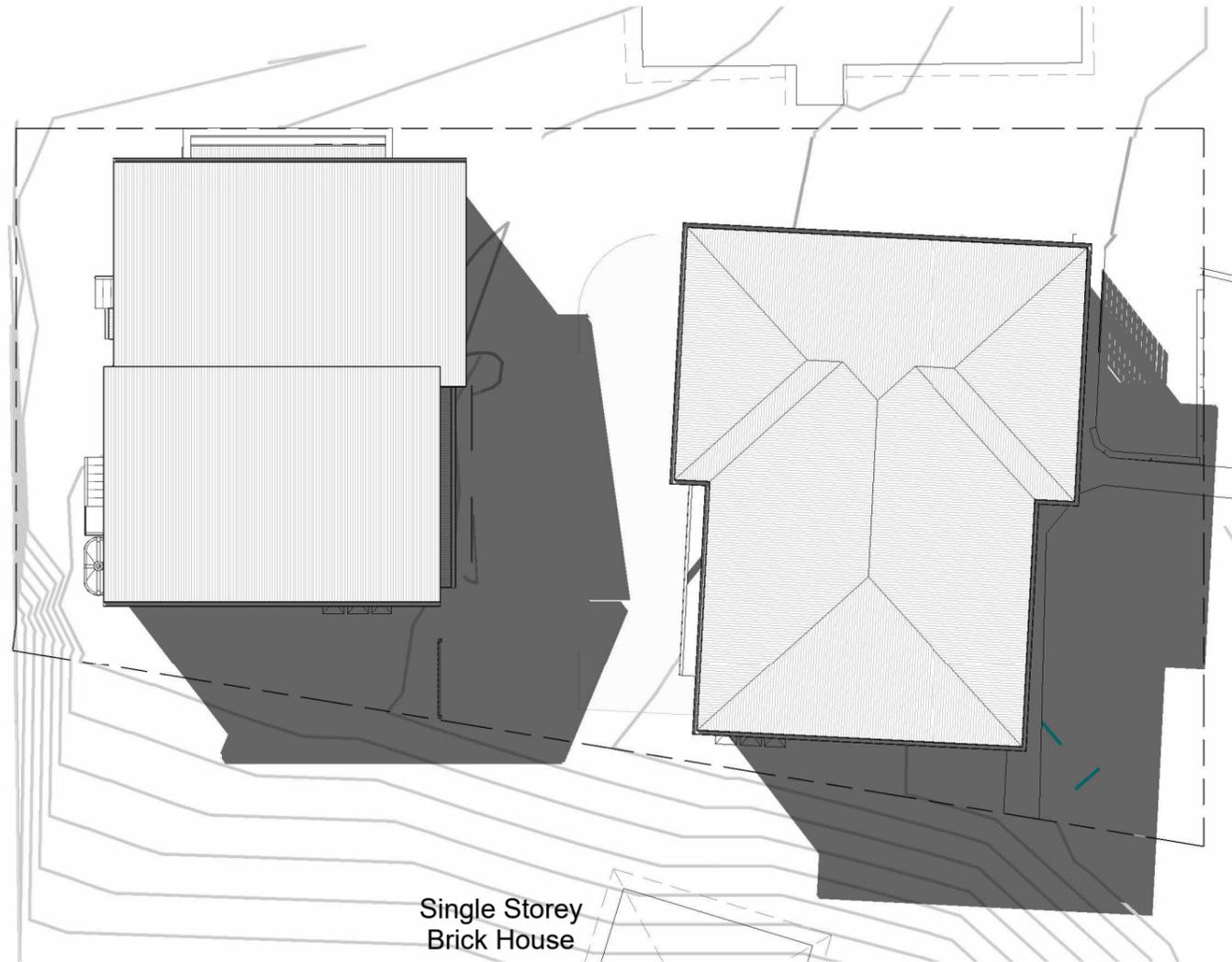
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Sheet: SHADOWS			
Drawn: GK			
Scale: 1 : 200	Size: A3	Date: 19/08/2025	
Project: 152TSG/Arch/16062025	Sheet: A11	Rev: 4	

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SHADOW @ 12PM 21st June

1 : 200

**GLENORCHY CITY COUNCIL
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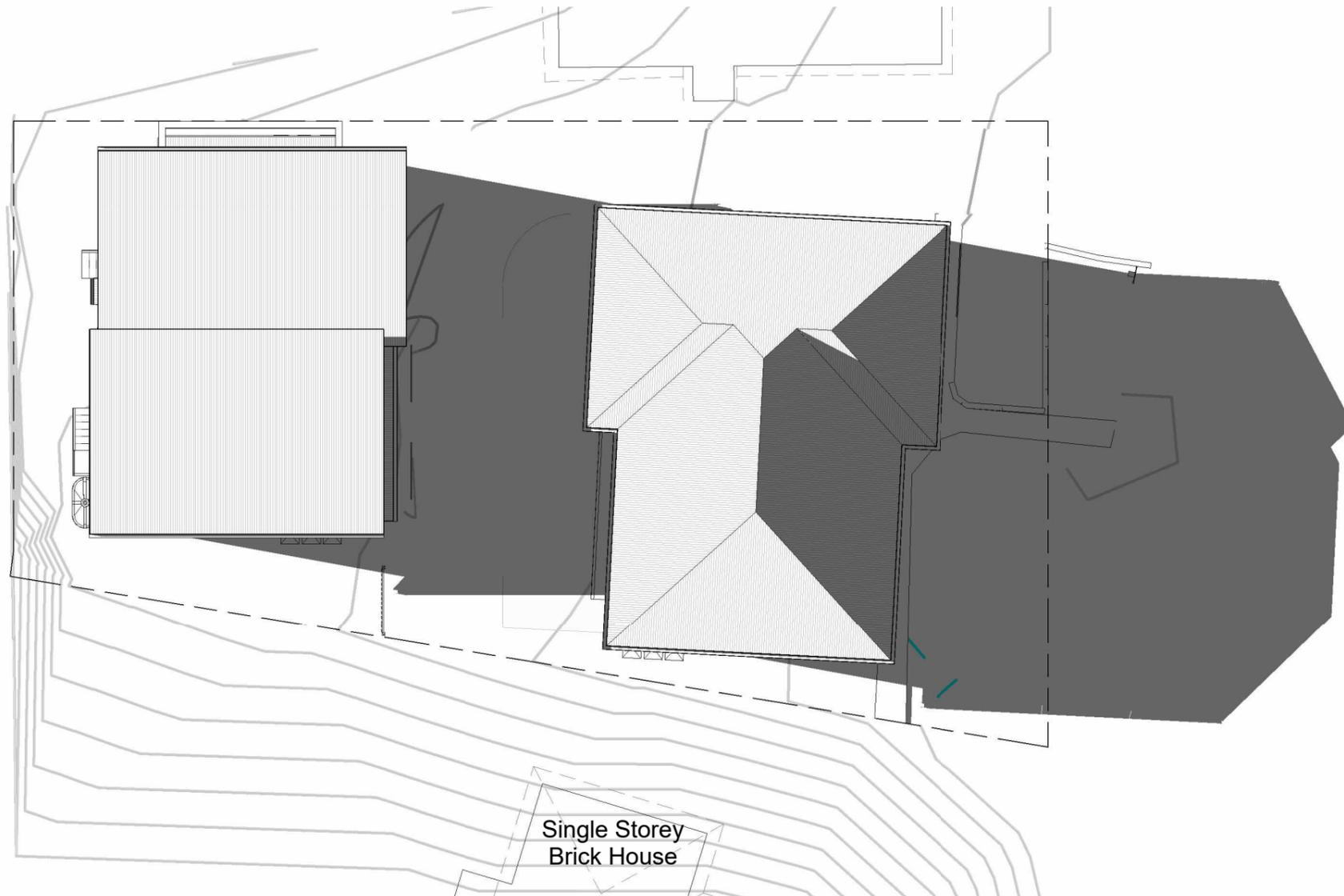
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Scale: 1 : 200	Size: A3	Date: 19/08/2025	
Project: 152TSG/Arch/16062025	Sheet: A12	Rev: 4	

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SHADOW @ 3PM 21st June

1 : 200

**GLENORCHY CITY COUNCIL
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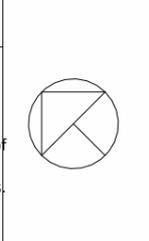
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Scale: 1 : 200	Size: A3	Date: 19/08/2025
Project: 152TSG/Arch/16062025	Sheet: A13	Rev: 4



MATRIX

ENGINEERING CONSULTANTS

STRUCTURAL - CIVIL - STORMWATER- REMEDIAL- GEOTECH

PROPOSED DWELLING & RENOVATION OF EXISTING HOUSE

URBAN SPACE DESIGNERS

ADDRESS
 152 TOLOSA STREET,
 GLENORCHY TAS 7010

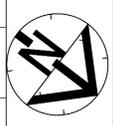
PROJECT No.
 MEC-SW-25294

INDEX OF DRAWINGS	
C0.0	COVER SHEET & INDEX OF DRAWINGS
C1.0	GROUND FLOOR STORMWATER DRAINAGE PLAN
C2.0	UPPER FLOOR STORMWATER DRAINAGE PLAN
C3.0	RAINWATER TANK/OSD CALCULATIONS
C4.0	TYPICAL DETAILS

**GLENORCHY CITY COUNCIL
 PLANNING SERVICES**
 APPLICATION No PLN-25-236
 DATE RECEIVED 23 February 2026



CLIENT URBAN SPACE DESIGNERS				COMPANY LOGO 		PROJECT 152 TOLOSA STREET, GLENORCHY TAS 7010		SHEET SUBJECT COVER SHEET & INDEX OF DRAWINGS		PROJECT 152 TOLOSA STREET, GLENORCHY TAS 7010			
ARCHITECT URBAN SPACE DESIGNERS										DATE 23.02.2026	DRAWN E.N	DESIGNED M.S	CHECKED A.P
										SCALE @ A1 AS SHOWN		JOB No MEC-SW-25294	
										AUTHORISED K.J		DWG No C0.0	
												REV D	
No	REVISION	ENG	DRAFT	DATE									



GENERAL SPECIFICATIONS & REQUIREMENTS FOR RAIN WATER TANK

GENERAL SPECIFICATIONS
 TANK TO BE PLUMBED TO ALLOW WATER TO BE USED FOR BOTH INTERNAL AND EXTERNAL REQUIREMENTS.
 TANK PIPE, IF REQUIRED IS TO PROVIDE AN ADEQUATE HEAD TO SERVICE ALL NEEDS. ALLOW FOR A MINIMUM OPERATING PRESSURE OF 170KPA ANAEROBIC LAYER (75 DEEP).
 TOP UP BY WAY OF MAINS SUPPLY AT A MAXIMUM OF 2 LITRES / MINUTE.
 RAINWATER/OSD STORMWATER TANK SIZES AS PER BASIX REQUIREMENT, AS SHOWN ON THE ARCHITECTURAL PLAN.
 ARCHITECT TO UPDATE ARCHITECTURAL PLAN TO COMPLY WITH BASIX REQUIREMENTS.

GENERAL REQUIREMENTS
CODES & STANDARDS
 SYDNEY WATER PREVENTION POLICY
 AUSTRALIAN STANDARDS
 AS 1319: 1994 SAFETY SIGN FOR THE OCCUPATION ENVIRONMENT
 AS1345: 1995 IDENTIFICATION OF THE CONTENT OF PIPES CONDUITS AND DUCTS
 AS 2648.1: 1995 UNDERGROUND MASKING TAPE - NONDETECTABLE TAPE
 AS 2845.1: 1998 WATER SUPPLY - BACKFLOW PREVENTION DEVICES MATERIALS DESIGN AND PERFORMANCE REQUIREMENTS
 AS 2845.2: 1996 WATER SUPPLY - BACKFLOW PREVENTION DEVICES - AIR GAP AND BREAK TANKS
 AS 2845.3: 1996 WATER SUPPLY - BACKFLOW PREVENTION DEVICES - FIELD TESTING AND MAINTENANCE
 AS3500.1: 2003 WATER SUPPLY, SECTION 2: MATERIALS AND PRODUCTS
 AS3500.2: 2003 PLUMBING AND DRAINAGE - SANITARY PLUMBING AND DRAINAGE
 AS 3855: 1994 SUITABILITY OF PLUMBING AND WATER DISTRIBUTION SYSTEMS PRODUCTS

INSTALLATION
 TANKS MUST NOT BE INSTALLED OVER OR IMMEDIATELY ADJACENT TO A WATER MAIN OR SEWER MAIN, UNLESS IT IS INSTALLED IN ACCORDANCE WITH ANY REQUIREMENTS OF THE PUBLIC AUTHORITY THAT HAS RESPONSIBILITY FOR THE MAIN.
 TANKS MUST NOT BE INSTALLED OVER ANY STRUCTURE OR FITTINGS USED BY A PUBLIC AUTHORITY TO MAINTAIN A WATER OR SEWER MAIN.
 NO PART OF THE TANK OR ANY STAND FOR THE TANK MAY REST ON A FOOTING OF ANY BUILDING OR OTHER STRUCTURE INCLUDING A RETAINING WALL.
 ALL TANKS ARE TO BE PLACED ON A STRUCTURALLY ADEQUATE BASE, IN ACCORDANCE WITH THE MANUFACTURER'S OR ENGINEERS DETAILS.

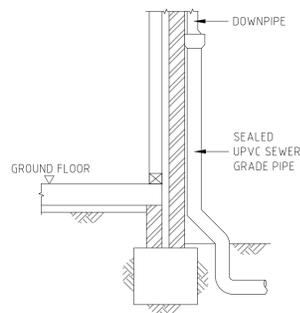
PLUMBING & PIPES
 RAIN WATER PIPES ARE TO BE SEPARATED FROM ANY POTABLE WATER SUPPLY IN ACCORDANCE WITH THE FOLLOWING:
 • ABOVE GROUND SERVICES: MINIMUM 100MM SEPARATION
 • BELOW GROUND SERVICES: MINIMUM 300MM SEPARATION
 • PIPES AND TANK ARE TO BE CLEARLY MARKED 'RAINWATER'
 • PUMPS NEED TO BE INSTALLED SO AS NOT TO EXCEED 5DB ABOVE THE AMBIENT BACKGROUND NOISE LEVELS MEASURED AT THE ALLOTMENT BOUNDARY.

FILTRATION, SCREENING & MAINTENANCE
 FIRST FLUSH FILTERING DEVICE IS POSITIONED IN LINE WITH THE TOP OF THE TANK TO REMOVE FLOATING MATERIALS AND PREVENT FINER FINER PARTICLES FROM ENTERING THE TANK.
 CLEAN FIRST FLUSH FILTER DEVICE AS DIRECTED BY THE MANUFACTURER.
 EMPTY TANK AND REMOVE SEDIMENTS EVERY 5 YEARS WHEN REUSE IN BOTH INTERNAL AND EXTERNAL.

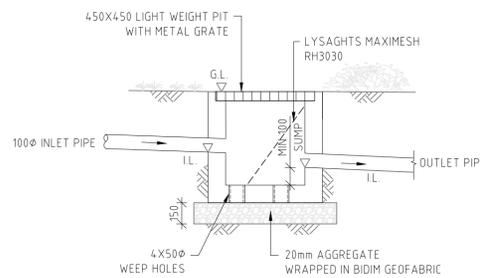
APPROVALS & PERMITS
 A PERMIT FROM SYDNEY WATER TO UNDERTAKE THE WORK.
 FINAL INSPECTION CONDUCTED BY SYDNEY WATER PRIOR TO SUBMISSION OF A CERTIFICATE OF COMPLIANCE.
 BACKFLOW PREVENTION DEVICE: AN INSPECTION AND MAINTENANCE REPORT, AFTER TESTING COMPLETION.

STORMWATER DRAINAGE NOTES

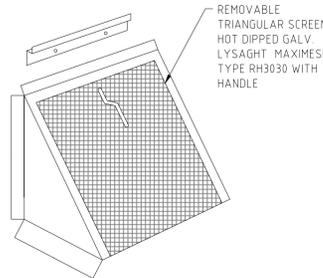
- ALL PIPES TO BE UPVC SWEAR GRADE, LAID ON A MIN 1% GRADE UNO, MINIMUM 300 COVER UNO.
- TRASH SCREEN TO BE INSTALLED TO ALL PITS WITHIN THE SOFT LANDSCAPE AREAS, BOUNDARY PIT AND THE PIT BEFORE THE STORMWATER TANK TO HAVE TRASH SCREENS.
- PIT SIZE AS NOTED ON THE PLAN.
- INTERNAL AND EXTERNAL USAGE OF RAINWATER & STORMWATER TANKS TO BE AS PER BASIX REQUIREMENTS.
- ALL PIT FLOORS TO HAVE A MINIMUM OF 20mm FALL, PROFILED AND STREAMLINED (FOR HALF OF THE DEPTH OF THE PIPE) IN THE DIRECTION OF FLOW.
- ALL GRATES ON THE DRIVEWAY TO BE HEAVY DUTY.
- ALL GUTTERS, PITS, PIPES AND DOWNPIPES TO BE INSTALLED IN ACCORDANCE WITH AS3500.3.2.1 1998.
- AG PIPE TO BE INSTALLED BEHIND ALL RETAINING WALLS AND TO BE CONNECTED TO NEAREST STORMWATER PIPE / PIT.
- ROOM DRAINAGE DESIGN BASED ON STRAMIT M/S PATTERN GUTTER WITH CROSS SECTION AREA OF 7900MM SQ OR SIMILAR. DOWNPIPES TO BE 100X75 RECTANGULAR DOWNPIPES.
- DOWN PIPES MUST BE FULLY SEALED IN TO MAIN LINES TO A LEVEL OF MIN 500 ABOVE INLET LEVEL TO THE R.W.T
- NO GAP OR VOIDS SHOULD BE OCCURRED IN ANY PART OF THE DOWN PIPE E.G NO LEAKAGE.
- CONFIRM ALL GRATE RL'S WITH ARCHITECTURAL AND LANDSCAPING PLAN LEVELS.



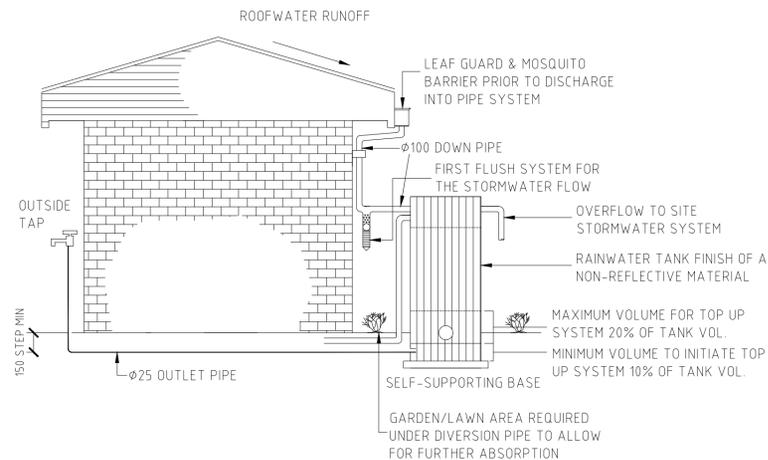
DOWN PIPE DETAILS
SCALE: NTS



SILT ARRESTOR PIT 1
SCALE: NTS



MULTI PURPOSE FILTER SCREEN
SCALE: NTS



RAINWATER TANK DETAIL
SCALE: NTS

**GLENORCHY CITY COUNCIL
 PLANNING SERVICES**
APPLICATION No ... PLN-25-236
DATE RECEIVED ... 23 February 2026

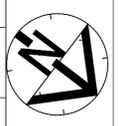


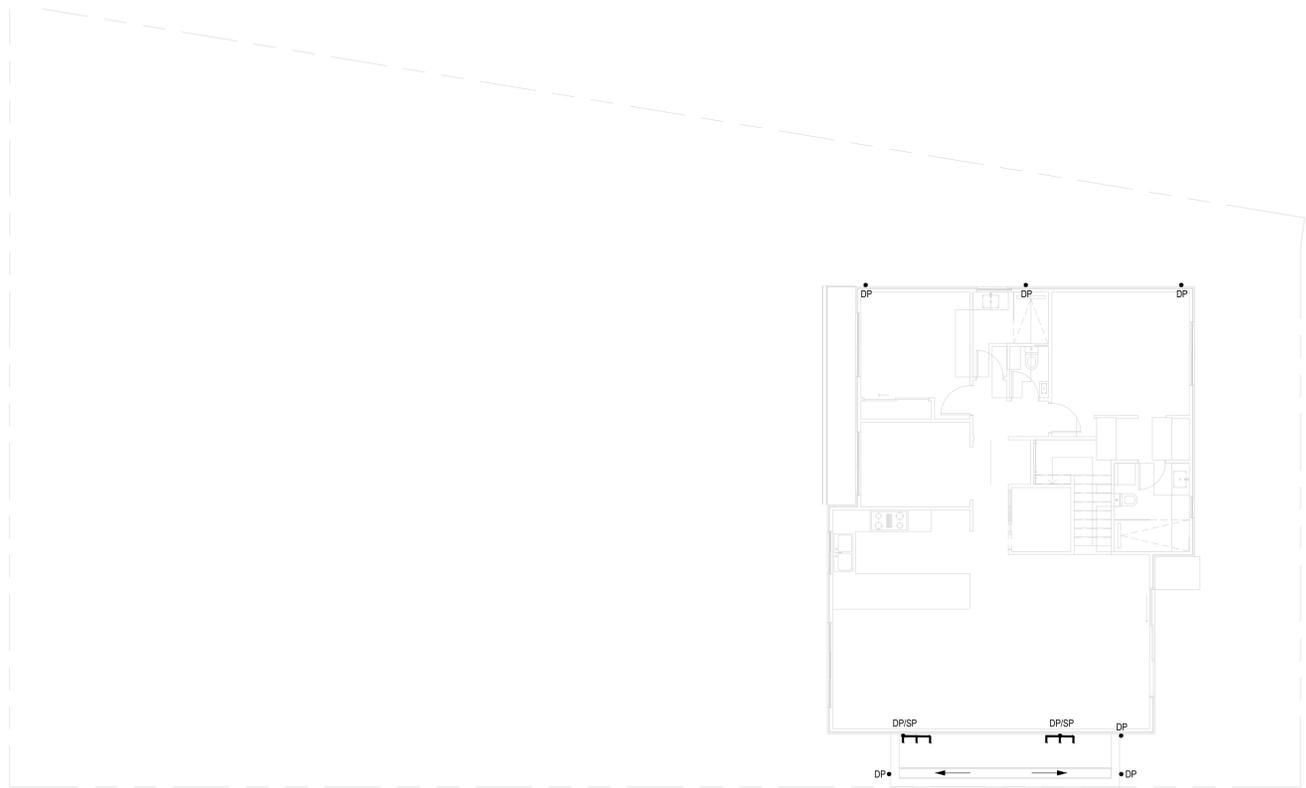
GROUND FLOOR STORMWATER DRAINAGE PLAN
SCALE 1:100

LEGEND	
• DP	DOWN PIPE/RAIN HEAD
→	FLOW DIRECTION
— SW	PROPOSED 100Ø UPVC PIPE STORMWATER PIPES
— RWT	PROPOSED 100Ø UPVC PIPE TO RAINWATER TANK
⊞	GRATED INLET PIT
—	SPREADER PIPE
⊞ FW	FLOOR WASTE
○ SWC	100 DIA SURFACE WATER COLLECTION WITH ONE WAY VALVE

SITE INFORMATION	
- TOTAL SITE AREA :	701.00 m ²
- EXISTING HOUSE AREA :	140.00 m ²
- EXISTING DRIVEWAY AREA :	166.00 m ²
- PROPOSED HOUSE AREA :	124.00 m ²
- PROPOSED ADDITIONAL CONCRETE AREA :	43.00 m ²
- TOTAL PERVIOUS AREA :	228.00 m ² (63.65%)
- TOTAL IMPERVIOUS AREA :	473 m ² (63.65%)
- RAINWATER TANK PROVIDED :	3,000L AS PER COUNCIL REQUIREMENTS

A1				CLIENT		COMPANY LOGO		PROJECT		SHEET SUBJECT		PROJECT 152 TOLOSA STREET, GLENORCHY TAS 7010			
				URBAN SPACE DESIGNERS				152 TOLOSA STREET, GLENORCHY TAS 7010		GROUND FLOOR STORMWATER DRAINAGE PLAN		DATE 23.02.2026 DRAWN E.N DESIGNED M.S CHECKED A.P			
4 REVISION D M.S K.J 23.02.2026				ARCHITECT				152 TOLOSA STREET, GLENORCHY TAS 7010		GROUND FLOOR STORMWATER DRAINAGE PLAN		SCALE @ A1		JOB No	
3 REVISION C M.S K.J 19.02.2026												AS SHOWN		MEC-SW-25294	
2 REVISION B M.S K.J 15.01.2026												AUTHORISED		DWG No	
1 REVISION A M.S K.J 11.12.2025				URBAN SPACE DESIGNERS				K.J		C1.0		D			
No REVISION				ENG DRAFT DATE											





FIRST FLOOR STORMWATER DRAINAGE PLAN
SCALE 1:100

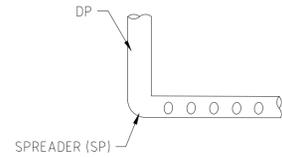
LEGEND

- DP DOWN PIPE/RAIN HEAD
- FLOW DIRECTION
- SW PROPOSED 100Ø UPVC PIPE
- SW STORMWATER PIPES
- SW PROPOSED 100Ø UPVC PIPE TO
- RAINWATER TANK
- GRATED INLET PIT
- SPREADER PIPE
- FW FLOOR WASTE
- SWC 100 DIA SURFACE WATER COLLECTION WITH ONE WAY VALVE

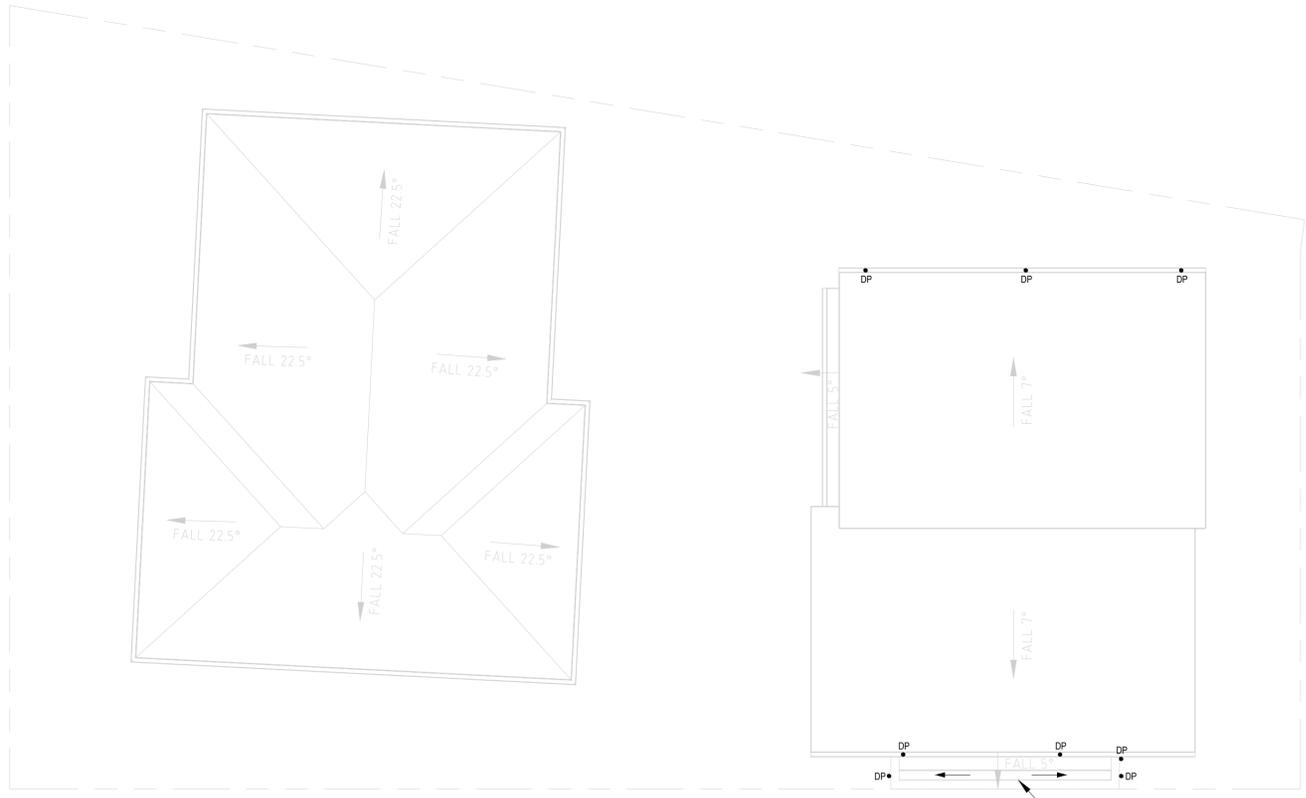


GUTTER DESIGN SUMMARY

GUTTER TYPE	SIZE	EFFECTIVE X-SECTIONAL AREA (mm ²)	DOWN PIPE SIZE (mm)
TYPE 'A'	STRAIGHT HALF ROUND 150 OR EQUIVALENT	7700	Ø100



TYPICAL SPREADER DETAIL
SCALE: NTS



ROOF STORMWATER DRAINAGE PLAN
SCALE 1:100

MINIMUM PIPE COVER (FROM FINISHED SURFACE TO THE TOP OF THE PIPE)

LOCATION	MINIMUM COVER (mm)	
	DUCTILE IRON, GALVANIZED STEEL	PLASTIC
1. NOT SUBJECTED TO VEHICULAR LOADING:		
a) Without pavement		
1. FOR SINGLE DWELLINGS, OR	100	100
2. FOR OTHER THAN SINGLE DWELLINGS	100	300
b) WITH PAVEMENT OF BRICK OR UNREINFORCED CONCRETE	100*	100*
2. SUBJECTED TO VEHICULAR LOADING:		
a) OTHER THAN ROAD		
1. WITHOUT PAVEMENT	300	450
2. WITH PAVEMENT OF-		
A) REINFORCED CONCRETE FOR HEAVY VEHICULAR LOADING OR	NIL*	100*
B) BRICK OR UNREINFORCED CONCRETE FOR LIGHT VEHICULAR LOADING	NIL*	75*
b) ROADS-		
1. SEALED OR	600	600
2. UNSEALED	600	750
3) SUBJECTED TO CONSTRUCTION EQUIPMENT LOADING OR IN EMBANKMENT CONDITIONS	600	750
4) LAND ZONE FOR AGRICULTURAL PURPOSE	600	600

* BELOW THE UNDERSIDE OF THE PAVEMENTS

**GLENORCHY CITY COUNCIL
PLANNING SERVICES**
APPLICATION No ... PLN-25-236
DATE RECEIVED ... 23 February 2026

No	REVISION	ENG	DRAFT	DATE
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3	REVISION C	M.S	K.J	19.02.2026
2	REVISION B	M.S	K.J	15.01.2026
1	REVISION A	M.S	K.J	11.12.2025

CLIENT
URBAN SPACE DESIGNERS

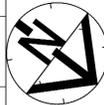
ARCHITECT
URBAN SPACE DESIGNERS



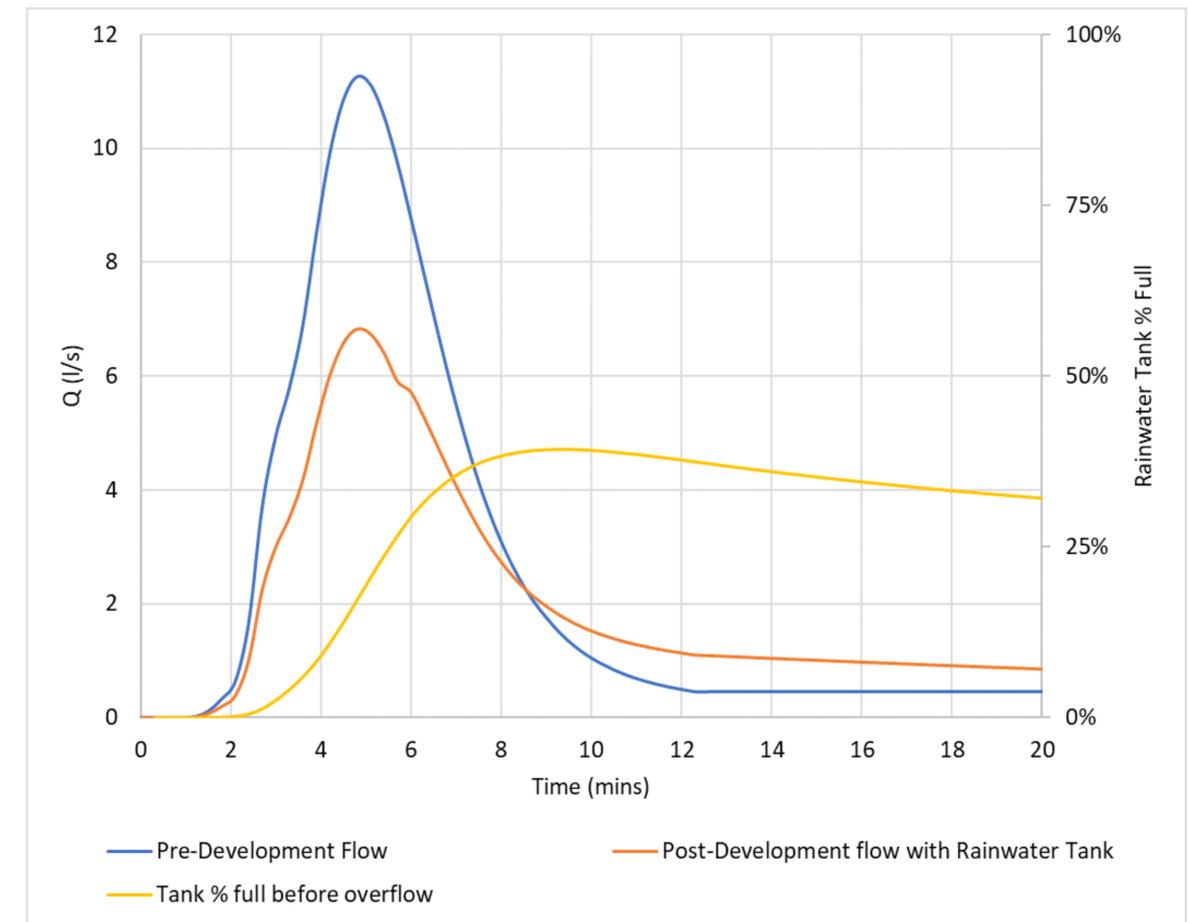
PROJECT
152 TOLOSA STREET, GLENORCHY TAS 7010

SHEET SUBJECT
UPPER FLOOR STORMWATER DRAINAGE PLAN

PROJECT 152 TOLOSA STREET, GLENORCHY TAS 7010			
DATE 23.02.2026	DRAWN E.N	DESIGNED M.S	CHECKED A.P
SCALE @ A1 AS SHOWN		JOB No MEC-SW-25294	
AUTHORISED K.J		DWG No C2.0	REV D



PRE-DEVELOPMENT CONDITIONS -I-5% 5MIN			
Site Area	701 m ²		
PRE-DEVELOPMENT MODEL			
CENTROID FLOW LENGTH	17.5 m		
CATCHMENT SLOPE	12.6%	LOT SLOPES TO THE BACK	
% IMPERVIOUS	44%		
NUMBER OF SUBCATCHMENTS	1		
RAFTS EQUIVALENT ROUGHNESS	0.03		
CRITICAL DURATION FROM RAFTS	5 mins		
I-5% 5 minutes	85.3 mm/hr		
CALCULATED NATURAL SITE DISCHARGE	0.011259814 m ³ /s	RATIONAL METHOD RUNOFF COEFFICIENT=68% [OK]	
OR	11.3 L/S		
ORIFICE AND RAINWATER TANK/OSD			
ASSUME 3000 litres CIRCULAR TANK			[BASED ON COUNCIL REQUIREMENT]
DIAMETER OF TANK	1.60 m		
CROSS SECTION AREA	2.01 m ²		
MAXIMUM ORIFICE HEAD (H)	1.4 m		
COEFFICIENT OF DISCHARGE (C)	0.6		
ORIFICE OPENING AREA (A)	0.00071 m ²		$\left[\frac{PSD}{C\sqrt{2 * g * H}} \right]$
ORIFICE DIAMETER	30 mm		$\left[\frac{A * 4}{\pi} \right]$
POST-DEVELOPMENT CONDITION			
PERVIOUS AREA	-349 m ²		[INDIRECTLY CONNECTED]
POST-DEVELOPMENT MODEL			
PEAK DISCHARGE WITHOUT ORIFICE AND TANK	0.007 m ³ /s		
OR	6.834 L/S		
ADOPTED DESIGN			
RAINWATER TANK SIZE	3,000 LTR		
ORIFICE PLATE OPENING	30 mm		
MAX OVERFLOW FROM RAINWATER TANK	0.90 L/S		



Additional Impervious Surface Proposed	On site Detention Required
40 to 65m ²	A minimum of 1.8m ³ (1,800 litres)
65m ² to 100m ²	2.5m ³ (2,500 litres)
100m ² to 150m ²	3.0m ³ (3,000 litres)
150m ² to 200m ²	3.5m ³ (3,500 litres)
200m ² to 250m ²	A minimum of 4.0m ³ (4,000 litres)
Over 250m ²	Engineering calculations required

**GLENORCHY CITY COUNCIL
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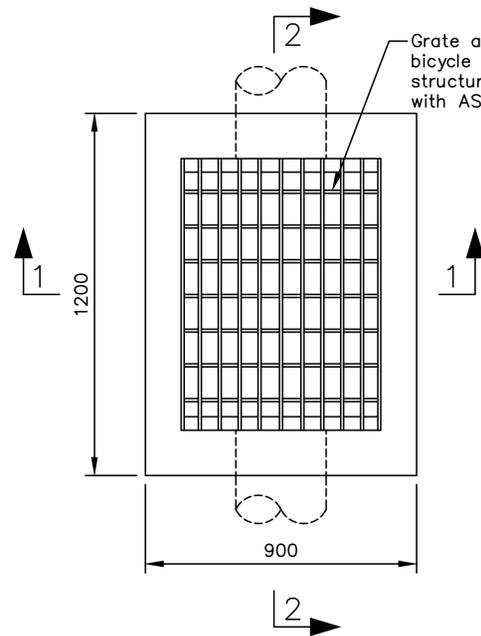


PROJECT
152 TOLOSA STREET, GLENORCHY TAS 7010

SHEET SUBJECT
RAINWATER TANK/OSD CALCULATIONS

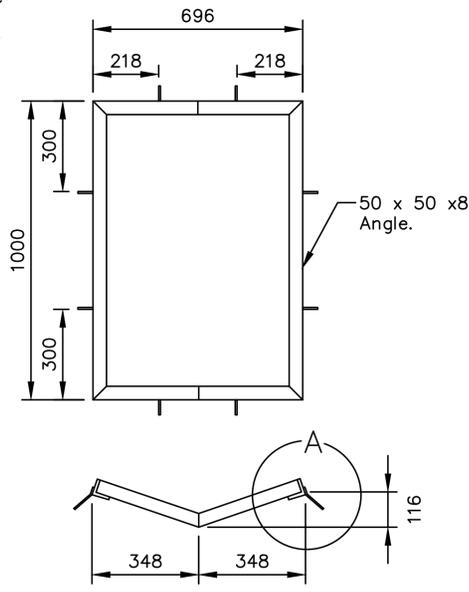
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SCALE @ A1 AS SHOWN		JOB No MEC-SW-25294	
AUTHORISED K.J		DWG No C3.0	REV D



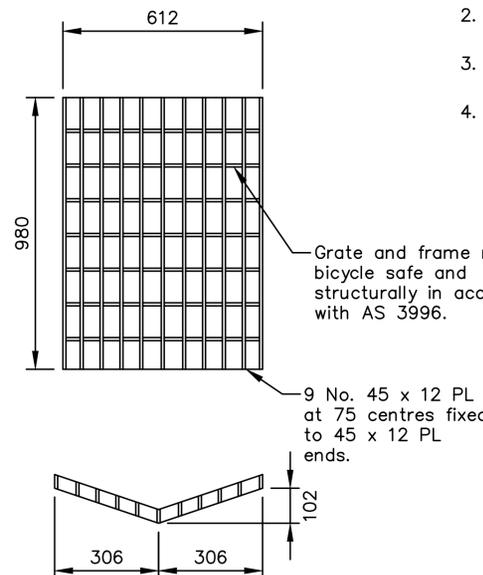


PLAN

Grate and frame must be bicycle safe and structurally in accordance with AS 3996.



GRATED SEAT



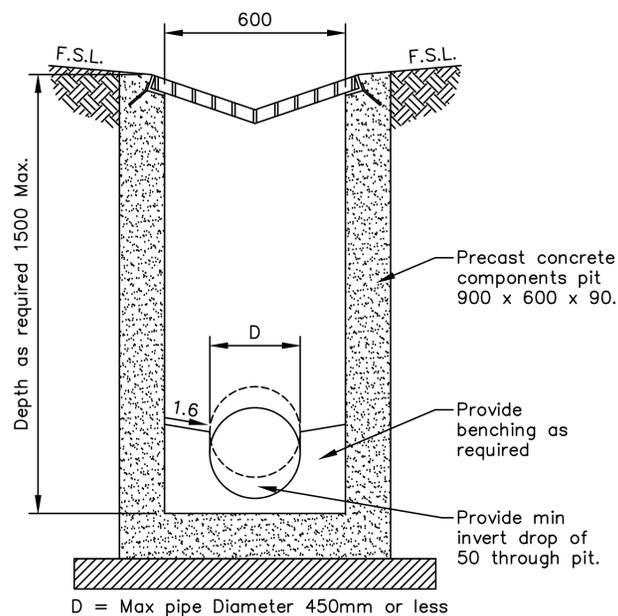
GRATE

NOTES

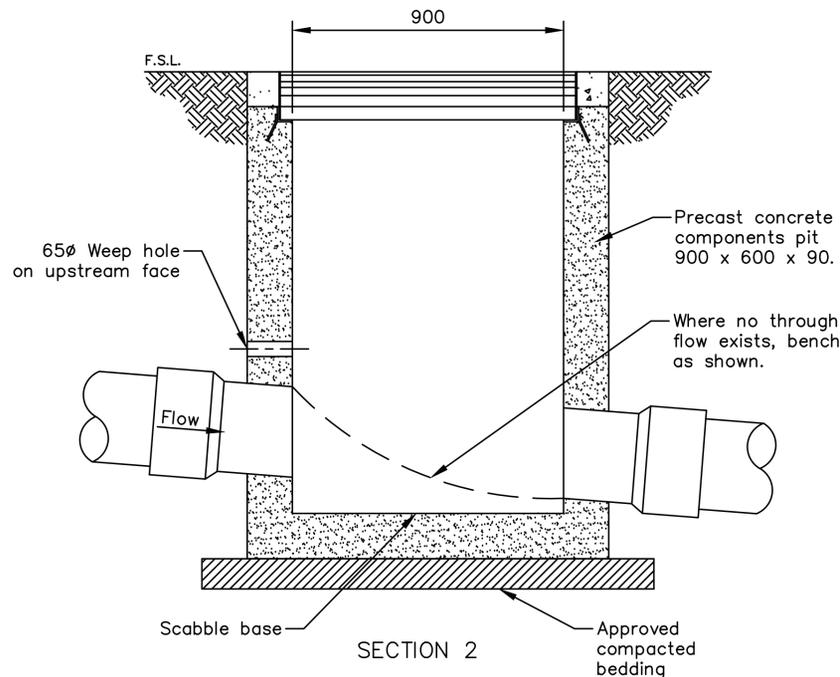
1. All dimension in millimetres (mm)
2. Pit to be constructed from grade N25 concrete.
3. All bars and angles to be grade 250 mild steel.
4. Equivalent pre-cast componentry may be substituted with the approval of the General Manager's delegated officer.

Grate and frame must be bicycle safe and structurally in accordance with AS 3996.

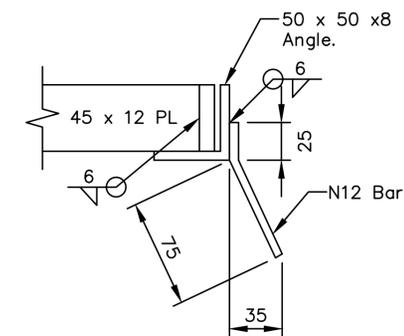
9 No. 45 x 12 PL at 75 centres fixed to 45 x 12 PL ends.



SECTION 1



SECTION 2



DETAIL A

**GLENORCHY CITY COUNCIL
PLANNING SERVICES**
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SCALES: AS SHOWN
(All scales are correct at A3)

XRef File: TSD-SW14-v3.dwg

REFERENCES

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**STANDARD DRAWING
STORMWATER - 'GVP'**

GPO Box 1521, Hobart Tasmania 7001 | 326 Macquarie Street, Hobart Tasmania 7000
T: 03 6233 5966 F: 03 6233 5986 Email: admin@lgat.tas.gov.au

ISSUE DATE: 18-09-2020

DWG No: TSD-SW14-v3

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CLIENT
URBAN SPACE DESIGNERS

ARCHITECT
URBAN SPACE DESIGNERS



PROJECT
152 TOLOSA STREET, GLENORCHY TAS 7010

SHEET SUBJECT
TYPICAL DETAILS

PROJECT 152 TOLOSA STREET, GLENORCHY TAS 7010			
DATE 23.02.2026	DRAWN E.N	DESIGNED M.S	CHECKED A.P
SCALE @ A1 AS SHOWN		JOB No MEC-SW-25294	
AUTHORISED K.J	DWG No C3.0	REV D	





MATRIX

ENGINEERING CONSULTANTS

STRUCTURAL - CIVIL - STORMWATER- REMEDIAL- GEOTECH

PROPOSED DWELLING & RENOVATION OF EXISTING HOUSE

URBAN SPACE DESIGNERS

ADDRESS
 152 TOLOSA STREET,
 GLENORCHY TAS 7010

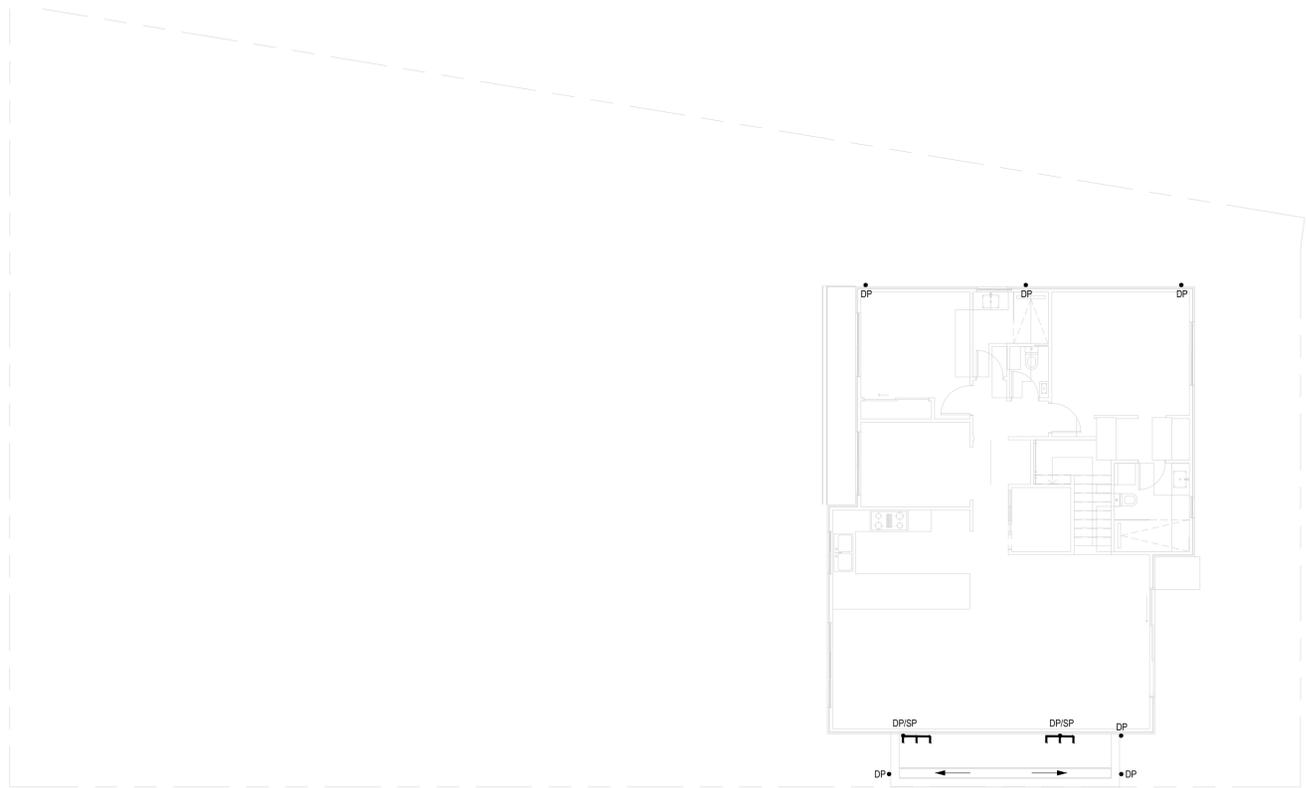
PROJECT No.
 MEC-SW-25294

INDEX OF DRAWINGS	
C0.0	COVER SHEET & INDEX OF DRAWINGS
C1.0	GROUND FLOOR STORMWATER DRAINAGE PLAN
C2.0	UPPER FLOOR STORMWATER DRAINAGE PLAN
C3.0	RAINWATER TANK/OSD CALCULATIONS
C4.0	TYPICAL DETAILS

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FIRST FLOOR STORMWATER DRAINAGE PLAN
SCALE 1:100

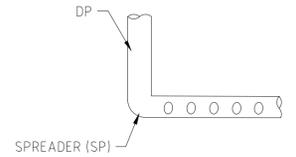
LEGEND

- DP DOWN PIPE/RAIN HEAD
- FLOW DIRECTION
- SW PROPOSED 100Ø UPVC PIPE
- RWY PROPOSED 100Ø UPVC PIPE TO RAINWATER TANK
- ▣ GRATED INLET PIT
- SPREADER PIPE
- FW FLOOR WASTE
- SWC 100 DIA SURFACE WATER COLLECTION WITH ONE WAY VALVE

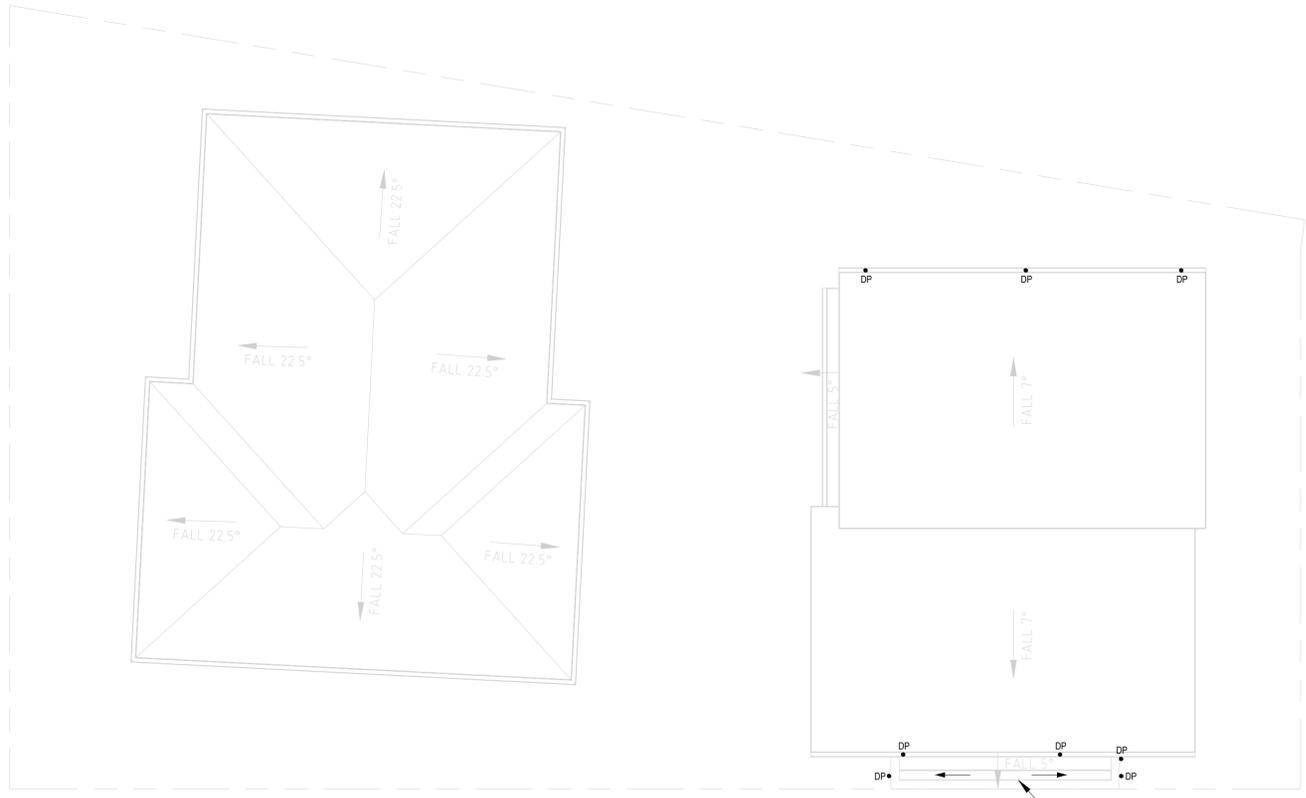


GUTTER DESIGN SUMMARY

GUTTER TYPE	SIZE	EFFECTIVE X-SECTIONAL AREA (mm ²)	DOWN PIPE SIZE (mm)
TYPE 'A'	STRAIGHT HALF ROUND 150 OR EQUIVALENT	7700	Ø100



TYPICAL SPREADER DETAIL
SCALE: NTS



ROOF STORMWATER DRAINAGE PLAN
SCALE 1:100

MINIMUM PIPE COVER (FROM FINISHED SURFACE TO THE TOP OF THE PIPE)

LOCATION	MINIMUM COVER (mm)	
	DUCTILE IRON, GALVANIZED STEEL	PLASTIC
1. NOT SUBJECT TO VEHICULAR LOADING:		
a) Without pavement		
1. FOR SINGLE DWELLINGS, OR	100	100
2. FOR OTHER THAN SINGLE DWELLINGS	100	300
b) WITH PAVEMENT OF BRICK OR UNREINFORCED CONCRETE	100*	100*
2. SUBJECT TO VEHICULAR LOADING:		
a) OTHER THAN ROAD		
1. WITHOUT PAVEMENT	300	450
2. WITH PAVEMENT OF-		
A) REINFORCED CONCRETE FOR HEAVY VEHICULAR LOADING OR	NIL*	100*
B) BRICK OR UNREINFORCED CONCRETE FOR LIGHT VEHICULAR LOADING	NIL*	75*
b) ROADS-		
1. SEALED OR	600	600
2. UNSEALED	600	750
3) SUBJECT TO CONSTRUCTION EQUIPMENT LOADING OR IN EMBANKMENT CONDITIONS	600	750
4) LAND ZONE FOR AGRICULTURAL PURPOSE	600	600

* BELOW THE UNDERSIDE OF THE PAVEMENTS

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CLIENT
URBAN SPACE DESIGNERS

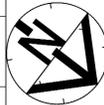
ARCHITECT
URBAN SPACE DESIGNERS



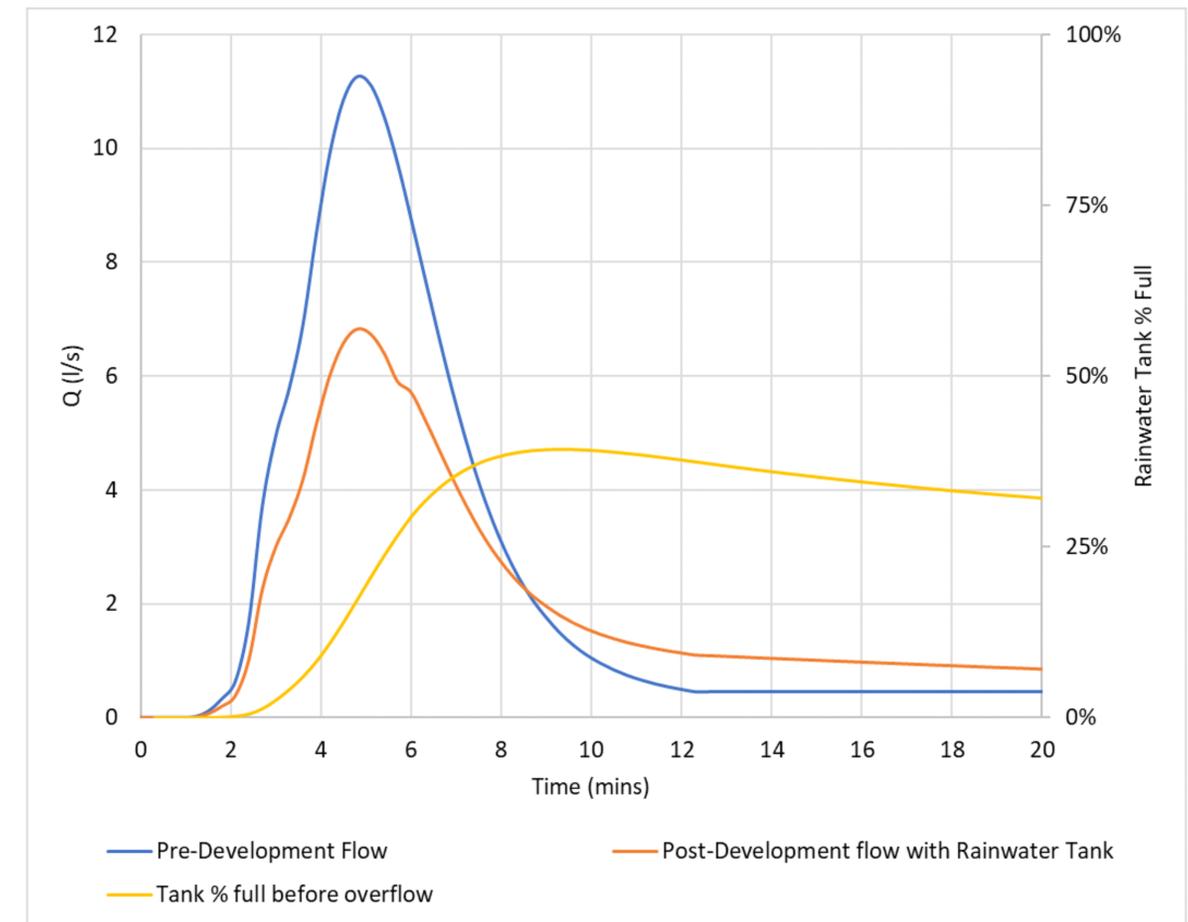
PROJECT
152 TOLOSA STREET, GLENORCHY TAS 7010

SHEET SUBJECT
UPPER FLOOR STORMWATER DRAINAGE PLAN

PROJECT 152 TOLOSA STREET, GLENORCHY TAS 7010			
DATE 23.02.2026	DRAWN E.N	DESIGNED M.S	CHECKED A.P
SCALE @ A1 AS SHOWN		JOB No MEC-SW-25294	
AUTHORISED K.J		DWG No C2.0	REV D



PRE-DEVELOPMENT CONDITIONS -I-5% 5MIN			
Site Area	701	m ²	
PRE-DEVELOPMENT MODEL			
CENTROID FLOW LENGTH	17.5	m	
CATCHMENT SLOPE	12.6%	LOT SLOPES TO THE BACK	
% IMPERVIOUS	44%		
NUMBER OF SUBCATCHMENTS	1		
RAFTS EQUIVALENT ROUGHNESS	0.03		
CRITICAL DURATION FROM RAFTS	5	mins	
I-5% 5 minutes	85.3	mm/hr	
CALCULATED NATURAL SITE DISCHARGE	0.011259814	m ³ /s	RATIONAL METHOD RUNOFF COEFFICIENT=68% [OK]
OR	11.3	L/S	
ORIFICE AND RAINWATER TANK/OSD			
ASSUME 3000 litres CIRCULAR TANK			[BASED ON COUNCIL REQUIREMENT]
DIAMETER OF TANK	1.60	m	
CROSS SECTION AREA	2.01	m ²	
MAXIMUM ORIFICE HEAD (H)	1.4	m	
COEFFICIENT OF DISCHARGE (C)	0.6		
ORIFICE OPENING AREA (A)	0.00071	m ²	$\left[\frac{PSD}{C\sqrt{2 * g * H}} \right]$
ORIFICE DIAMETER	30	mm	$\left[\frac{A * 4}{\pi} \right]$
POST-DEVELOPMENT CONDITION			
PERVIOUS AREA	-349	m ²	[INDIRECTLY CONNECTED]
POST-DEVELOPMENT MODEL			
PEAK DISCHARGE WITHOUT ORIFICE AND TANK	0.007	m ³ /s	
OR	6.834	L/S	
ADOPTED DESIGN			
RAINWATER TANK SIZE	3,000	LTR	
ORIFICE PLATE OPENING	30	mm	
MAX OVERFLOW FROM RAINWATER TANK	0.90	L/S	



Additional Impervious Surface Proposed	On site Detention Required
40 to 65m ²	A minimum of 1.8m ³ (1,800 litres)
65m ² to 100m ²	2.5m ³ (2,500 litres)
100m ² to 150m ²	3.0m ³ (3,000 litres)
150m ² to 200m ²	3.5m ³ (3,500 litres)
200m ² to 250m ²	A minimum of 4.0m ³ (4,000 litres)
Over 250m ²	Engineering calculations required

**GLENORCHY CITY COUNCIL
PLANNING SERVICES**
APPLICATION No PLN-25-236
DATE RECEIVED 23 February 2026

No	REVISION	ENG	DRAFT	DATE
4	REVISION D	M.S	K.J	23.02.2026
3	REVISION C	M.S	K.J	19.02.2026
2	REVISION B	M.S	K.J	15.01.2026
1	REVISION A	M.S	K.J	11.12.2025

CLIENT: URBAN SPACE DESIGNERS
ARCHITECT: URBAN SPACE DESIGNERS

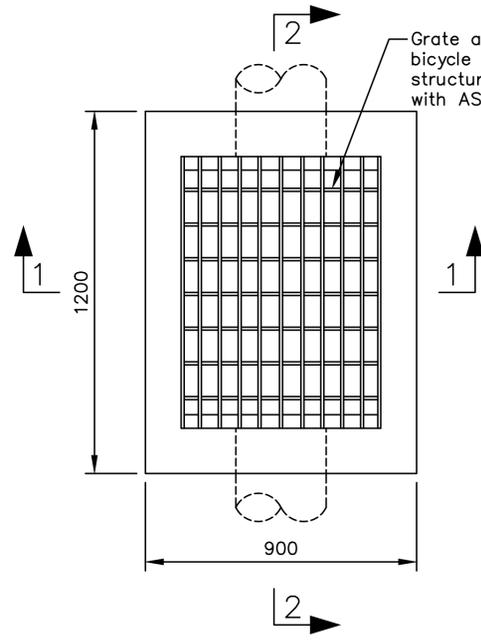
COMPANY LOGO

PROJECT: 152 TOLOSA STREET, GLENORCHY TAS 7010

SHEET SUBJECT: RAINWATER TANK/OSD CALCULATIONS

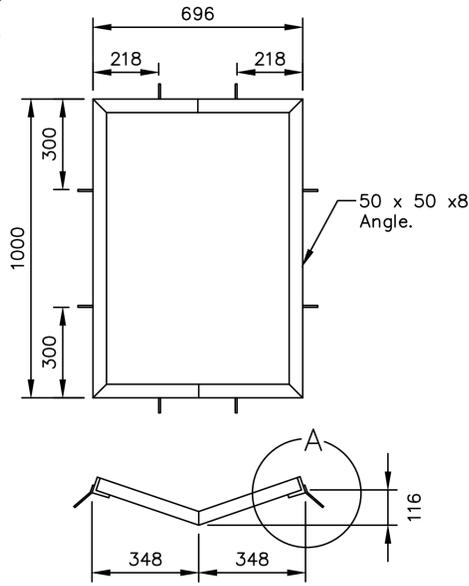
PROJECT: 152 TOLOSA STREET, GLENORCHY TAS 7010			
DATE: 23.02.2026	DRAWN: E.N	DESIGNED: M.S	CHECKED: A.P
SCALE @ A1: AS SHOWN		JOB No: MEC-SW-25294	
AUTHORISED: K.J	DWG No: C3.0	REV: D	



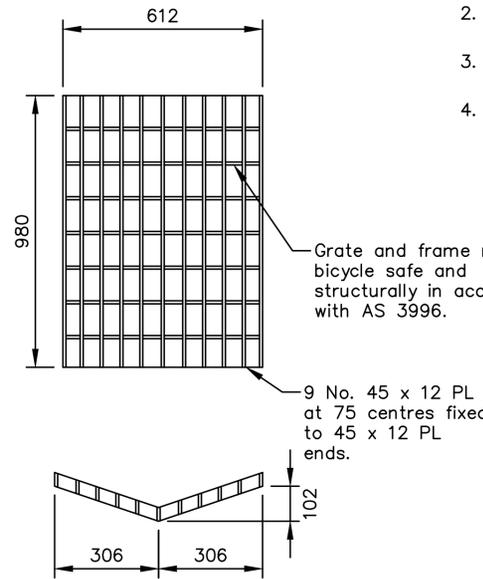


PLAN

Grate and frame must be bicycle safe and structurally in accordance with AS 3996.



GRATED SEAT



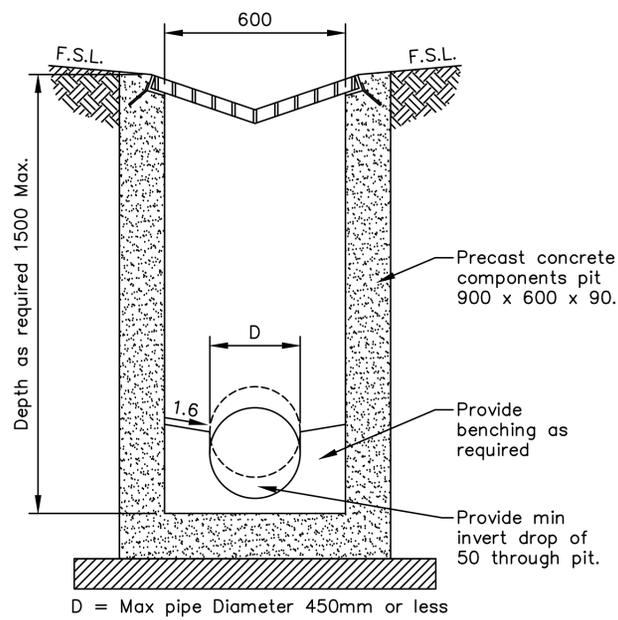
GRATE

NOTES

1. All dimension in millimetres (mm)
2. Pit to be constructed from grade N25 concrete.
3. All bars and angles to be grade 250 mild steel.
4. Equivalent pre-cast componentry may be substituted with the approval of the General Manager's delegated officer.

Grate and frame must be bicycle safe and structurally in accordance with AS 3996.

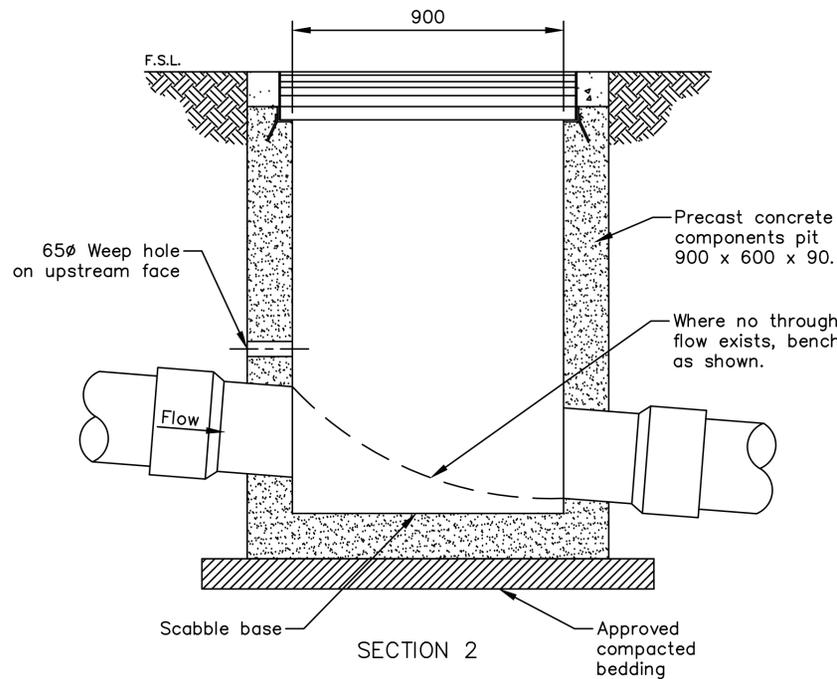
9 No. 45 x 12 PL at 75 centres fixed to 45 x 12 PL ends.



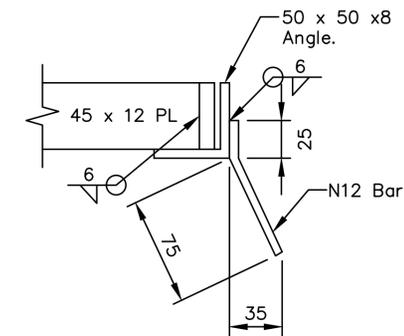
SECTION 1

Depth as required 1500 Max.

D = Max pipe Diameter 450mm or less



SECTION 2



DETAIL A

**GLENORCHY CITY COUNCIL
PLANNING SERVICES**
 APPLICATION No PLN-25-236
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SCALES: AS SHOWN
(All scales are correct at A3)

XRef File: TSD-SW14-v3.dwg

REFERENCES

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**STANDARD DRAWING
STORMWATER - 'GVP'**

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ISSUE DATE: 18-09-2020

DWG No: TSD-SW14-v3

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1	REVISION A	M.S	K.J	11.12.2025

CLIENT
URBAN SPACE DESIGNERS

ARCHITECT
URBAN SPACE DESIGNERS



PROJECT
152 TOLOSA STREET, GLENORCHY TAS 7010

SHEET SUBJECT
TYPICAL DETAILS

PROJECT 152 TOLOSA STREET, GLENORCHY TAS 7010			
DATE 23.02.2026	DRAWN E.N	DESIGNED M.S	CHECKED A.P
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AUTHORISED K.J	DWG No C3.0	REV D	

