

# WORKING DRAWINGS

FOR

# PROPOSED DWELLING

AT

LOT 417(NO.59) SPAFIELD ROAD,  
BEVERIDGE, VIC, 3753

FOR

# FUSION ENGINEERING

## DRAWING SCHEDULE : ON A3 PAGES

- PG 1 – TITLE / GENERAL NOTES
- PG 2 – GENERAL NOTES
- PG 3 – SITE / ROOF PLAN
- PG 4 – GROUND FLOOR PLAN
- PG 5 – ELEVATIONS
- PG 6 – SECTION/DETAILS
- PG 7 – DETAILS
- PG 8 – DETAILS
- PG 9 – DETAILS
- PG 10 – ELECTRICAL PLAN
- PG 11 – LANDSCAPE PLAN

## GENERAL NOTES

### INTELLECTUAL PROPERTY AND USE OF THIS DOCUMENT

- This document has been prepared for the exclusive use of the client of [insert] (the designer), for the purpose expressly notified to the designer. Any other person who uses or relies on these plans without the designer's written consent does so at their own risk and no responsibility is accepted by the designer for such use and/or reliance.
- This document is to be read in conjunction with all drawings, details and information provided by the consultants named herein, and with any other written instructions issued in the course of the contract.
- A building permit is required prior to the commencement of these works. The release of this document is conditional on the client obtaining the required building permit.

### MATERIALS AND TRADE PRACTICES

- All materials, construction and work practices shall comply with but not be limited to the current issue of [insert name of state/territory building regulations & year], National Construction Code 2022 Building Code Of Australia Vol. 2 (hereafter referred to as BCA), and all relevant current Australian Standards referred to therein.
- Work and site management practices shall comply with all relevant laws and by-laws.
- If any performance solution is proposed, it shall be assessed and approved by the [relevant building surveyor/building certifier] as meeting BCA performance requirements prior to implementation or installation.
- Installation of all services shall comply with the respective supply authority's requirements.

### VARIATIONS

- Should any conflict arise between these plans and BCA, Australian Standards or a manufacturer's instructions, this discrepancy shall be reported immediately to the designer, before any other action is taken.
- The client and/or the client's builder shall not modify or amend the plans without the knowledge and consent of the designer, except where the [relevant building surveyor/building certifier] makes minor necessary changes to facilitate the building permit application, and where such changes are reported back to the designer within 48 hours of their making.
- The approval by the designer of a substitute material, work practice or the like is not an authorisation for its use or a contract variation. Any variations and/or substitutions to materials or work practices shall be accepted by all parties to the building contract and, where applicable, the [relevant building surveyor/building certifier], prior to implementation.

### MEASUREMENTS

- Figured dimensions take precedence over scaled dimensions.
- Site plan measurements are in metres. All other measurements are in millimetres, unless noted otherwise.
- Unless noted otherwise, dimensions on floor plans, sections and external elevations represent timber frame and structural members, not finished linings/cladding.
- Window sizes are nominal only. Actual size may vary according to manufacturer.
- The builder and subcontractors shall check and verify all dimensions, setbacks, levels, specifications, and all other relevant documentation prior to the commencement of any works. Report all discrepancies to the designer for clarification.



DRAWING TITLE

Opes

BUILDING SOLUTIONS

TITLE / GENERAL NOTES

THIS DOCUMENT IS THE SUBJECT OF:

BUILDING PERMIT NUMBER: CBS-U 66127/9667265168824

ISSUED DATE: 26/03/2025

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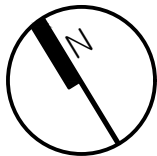
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PROJECT:  
**PROPOSED DWELLING**  
AT:  
**LOT 417(NO.59) SPAFIELD ROAD,  
BEVERIDGE, VIC, 3753**  
FOR:  
**FUSION ENGINEERING**

DRAWN: **JT-JW**  
DATE: **10/03/2024**  
SCALE: **1:100 (A3)**  
JOB NO: **10102025**  
STATUS: **WORKING DRAWINGS**  
PG NO: **01**

REV	DATE	AMENDMENT
A	13.03	DA RFI
B	20.03	BUILDING PERMIT



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SUPPLEMENTARY NOTES

SITE PROTECTION DURING THE CONSTRUCTION PERIOD

- Protective outriggers, fences, awnings, hoarding, barricades and the like shall be installed where necessary to guard against danger to life or property or when required by the relevant building surveyor and/or council.
- Where required by council, the builder shall construct a temporary crossing placed over the footpath.
- All practicable measures shall be implemented to minimise waste to landfill. The builder may use a construction waste recovery service, or sort and transport recyclable materials to the appropriate registered recycler. Materials shall not be burned on site.
- A site management plan shall be implemented from the commencement of works, to control sediment run-off in accordance with [insert relevant state/council guidelines or regulation]. Silt fences shall be provided to the low side of the allotment and around all soil stockpiles and storm water inlet pits/sumps and 'silt stop' filter bags or equivalent shall be placed over all storm water entry pits. Erosion control fabric shall be placed over garden beds to prevent surface erosion.
- Dust-creating material shall be kept sprayed with water so as to prevent any nuisance from dust.
- Waste materials shall not be placed in any street, road or right of way.
- Earthworks (unretained) shall not exceed 2m.
- Cut and fill batters shall comply with BCA Table 3.2.1.

PROTECTION OF THE BUILDING FABRIC

- The builder shall take all steps necessary to ensure the stability and general water tightness of all new and/or existing structures during all works.
- Windows, doors and service penetrations shall be flashed all around.
- All pliable membranes shall be installed to comply and be in accordance with BCA 10.8.1
- Gutters and drainage shall be supplied and installed in accordance with AS3500.3.
- Anti-ponding devices/boards shall be installed according to BCA 7.3.5.
- Dampcourses with weepholes and cavity flashings shall be installed in accordance with AS4773.2.
- Surfaces around the perimeter of a residential slab shall fall away from that slab by not less than 50mm over the first 1m. Where not stipulated in the geotechnical report, freeboard shall be not less than 50mm from an impermeable surface or 150mm from a permeable surface.
- Subfloor vents shall be located >600mm from corners and be installed below bearers. Such vents shall provide a rate per 1000mm run of external or internal cross walls of:
  - 7,500mm<sup>2</sup> clear ventilation where particle board flooring is used; or
  - 6,000mm<sup>2</sup> for other subfloor types.
- [Where a building other than detached class 10 is located in a termite-prone area] the building shall be provided with a termite management system compliant with AS3660.1 or AS3660.2.
- In saline or industrial environments, masonry units, mortar, and all built-in components shall comply with the durability requirements of Table 4.1 of AS4773.1, Part 1: Design.
- Building tie-downs shall be appropriate for the site wind classification and provided in accordance with BCA 5.6.6.
- Corrosion protection shall be suited to the site context and provided for built-in structural steel members such as steel lintels, shelf angles, connectors, accessories (other than wall ties) in accordance with Table 4.1 of AS4773.1 Masonry in Small Buildings, Part 1: Design.
- Sheet roofing shall be protected from corrosion in a manner appropriate to the site context, in accordance with BCA Table 7.2.2a.
- Single leaf masonry walls shall be weatherproofed per BCA 5.7.6.
- [In climate zones 6, 7 and 8] Unless excluded by BCA 10.8.3(2) roofs shall be provided with ventilation openings per BCA 10.8.3.
- External waterproofing for on flat roofs, roof terraces, balconies and terraces and other similar horizontal surfaces located above internal spaces of a building shall comply with BCA H2D8.
- Waterproofing of wet areas - being bathrooms, showers, shower rooms, laundries, sanitary compartments and the like - shall be provided in accordance with BCA 10.2.
- Balcony waterproofing shall be installed in accordance with AS4654.1 & AS4654.2.

GLAZING

- Glazed units shall be installed in accordance with BCA 8.3.2.
- Fully framed glazing installed in the perimeter of buildings shall comply with BCA 8.3.3.
- Glass - including, but not limited to, windows, doors, screens, panels, splashbacks and barriers - shall comply with BCA 3.3.3.
- Glazing subject to human impact shall comply with BCA 8.4.

FOOTINGS

- Footings shall not, under any circumstance, encroach over title boundaries or easement lines.
- Where concrete stumps are to be used, these shall be:

- 100mm x 100mm x 100mm long
- 100mm x 100mm x 100mm to 1800mm long
- 100mm x 100mm x 100mm to 3000mm long.

- 100mm x 100mm stumps that exceed 1200mm above ground level shall be bored, where necessary, to a depth of 100mm below the level of the ground.
- All foundations shall be constructed in accordance with the design of the building engineer's discretion).

DRAWING TITLE

**Supplementary / SPECS**

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STORMWATER AND SEWERS

- 100 mm dia. Class 6 UPVC stormwater line min grade 1:100 shall be connected to the legal point of discharge to the relevant authority's approval. Provide inspection openings at 9m centres and at each change of direction.
- Covers to underground stormwater drains shall be not less than:
  - 100mm under soil
  - 50mm under paved or concrete areas
  - 100mm under unreinforced concrete or paved driveways
  - 75mm under reinforced concrete driveways
- The builder and subcontractor shall ensure that all stormwater drains, sewer pipes and the like are located at a sufficient distance from any buildings, footing and/or slab edge beams so as to prevent general moisture penetration, dampness, weakening and undermining of any building and its footing system.

SAFETY OF BUILDING USERS

- Where stairs, ramps and balustrades are to be constructed, these shall comply with all provisions of BCA 11.2.
- Other than spiral stairs:
  - Risers shall be 190mm max and 115mm min
  - Goings shall be 355mm max and 240mm min
  - 2r+g shall be 700mm max and 550mm min
  - There shall be less than 125mm gap between open treads.
- All treads, landings and the like shall have a slip resistance classification of P3 or R10 for dry surface conditions and P4 or R11 for wet surface conditions, or a nosing strip with a slip-resistance classification of P3 for dry surface conditions and P4 for wet surface conditions.
- Barriers shall be provided where it is possible to fall 1m or more from the level of the trafficable surface to the surface beneath. Such barriers (other than tensioned wire barriers) shall be:
  - 1000mm min above finished stair level (FSL) of balconies, landings etc; and
  - 865mm min above FSL of stair nosing or ramp; and
  - vertical, with gaps of no more than 125mm.
- Where the floor below a bedroom window is 2m or more above the surface beneath, the window shall comply with BCA Clause 11.3.7.
- Where the floor below a window other than in a bedroom is 4m or more above the surface beneath, the window shall comply with BCA Clause 11.3.8.
- Where a bedroom window is 2m or more above the surface beneath, or it is possible to fall 4m or more from the level of any trafficable surface to the surface beneath, any horizontal element within a barrier between 150mm and 760mm above the floor shall not facilitate climbing.
- Handrails shall be continuous, with tops set >865mm vertically above stair nosing and floor surface of ramps.
- Wire barriers shall comply with BCA 11.3.4 and 11.3.6.
- A glass barrier or window serving as a barrier shall comply with BCA H1D8.
- Class 1 buildings with air permeability of not more than 5 m<sup>3</sup>/hr.m<sup>2</sup> at 50 Pa shall be provided with a mechanical ventilation system complying with H6V3.Inward-opening swing doors to fully enclosed sanitary compartments shall comply with BCA Clause 10.4.2.
- All shower walls and walls adjacent to toilet shall be braced with 12mm ply for future grab rails or supply noggings with a thickness of at least 25mm in accordance with recommendations of Liveable Housing Design Guidelines.
- Flooring in wet areas, laundry and kitchen shall be slip resistant.
- Door hardware shall be installed 900mm - 1100mm above the finished floor.
- There shall be a level transition between abutting internal surfaces (a maximum vertical tolerance of 5mm between abutting surfaces is allowable provided the lip is rounded or bevelled).

SERVICES

- Solar collector panel locations are indicative only. Location and size are dependent on manufacturer's/installer's recommendation.
- Ductwork for heating and cooling systems shall comply with AS4254 & AS/NZS 4859.1 in accordance with climate zone requirements set down in BCA Table 3.

TIMBER FRAMING

- Standard timber roofing and wall framing shall be provided in accordance with AS1684 (Residential Timber-Framed Construction) and all relevant supplements.

ELECTRICAL

- Smoke detectors shall be fitted where none are present, or where existing are non-compliant with AS3786.
- New smoke detectors shall be interconnected; mains-powered; and located and installed per BCA 9.5.2 and 9.5.4.
- In a Class 10a private garage, an alternative alarm may be installed per BCA 9.5.1(b).
- Light switches shall be positioned in a consistent location 900mm - 1100mm above the finished floor level; horizontally aligned with the door handle at the entrance to a room.
- Power points shall not be installed lower than 300mm above finished floor level.
- All electrical penetrations shall be sealed using material appropriate to the rating of the cable and/or device.
- Only stamped IC4-rated downlights shall be installed and insulation shall not be penetrated for downlights.
- Ductwork for exhaust fans and heating and cooling systems shall comply with AS4254 & AS/NZS 4859.1 in accordance with climate zone requirements set down in BCA 13.7.4.
- Exhaust from a bathroom, sanitary compartment or laundry shall be discharged directly via an insulated shaft or R1 insulated ducting to outdoor air. Minimum flow rates shall be:
  - 40 l/s for kitchen & laundry
  - 25 l/s for bathroom or sanitary compartment.
- An exhaust system that is not run continuously and is serving a bathroom or sanitary compartment that is not ventilated in accordance with BCA 10.6.2(a) shall be interlocked with the room's light switch; and include a 10 minute run-on timer.
- Exhaust fans, rangehoods and the like shall be installed with self-closing dampers.

SPECIFICATIONS

SUB FLOOR

- Refer to engineers drawings and computations.

FLOORING

- Floor finishes as selected by client.

WALL FRAMING

- Framing must be in accordance with as.1684.
- Bottom plate 90x45 mgp10
- Studs 90x45 mgp10 at 450 ctrs
- Jamb studs 2 / 90x45 mgp10 pine
- Noggins 70x35 merch at 1350 ctrs max
- Top plate 2 / 90x45 mgp10 pine
- Lintels to engineers design and specification.
- All exposed timber to be h3 treated pine.

ROOF FRAMING

- Roof trusses as per manufacturers design and specifications. manufacturers computations are to be provided prior to frame inspection. Builder to confirm eaves do not clash with windows or molds prior to ordering trusses.

- Roof battens: 38x75 f8 hw at 330 ctrs (tile)  
38x75 f8 hw at 900 ctrs (colorbond)  
38x75 f8 hw at 900 ctrs (Klip-lok)

ROOFING TYPE:

- Selected concrete tile roof at 22.5°

EXTERNAL FINISHES

- All materials and finishes to clients specification.
  - Hebel with rendered finish
  - Vertical axon cladding

INTERNAL WALL FINISHES

- 10mm plasterboard to be painted (all internal walls)
- 10mm plasterboard to be painted (all internal ceilings)
- Client to select square finish or cornice for each room.

WET AREAS

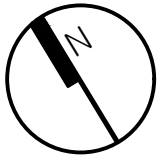
- All wet areas to have impervious finish to floor and walls (tiles) in accordance with the NCC 2022 and AS.3740.2004.
- Showers to 2100a.f.l min
- sinks, troughs and hand basins – 300mm min

- All waterproof as per as 3740 and NCC 2022 part 10.2

BUILDING THERMAL PERFORMANCE

- Works shall be constructed in accordance with the stamped plans endorsed by xxx, accredited thermal performance assessor DMNXXX, without alteration.
- The NatHERS energy rating contains inbuilt assumptions about the integrity of the building fabric with regards insulation, draughtproofing and glazing. Works shall comply with the following measures, to ensure that the as-built performance corresponds to that modelled in the energy rating.
- Insulation as follows shall be installed in accordance with BCA 13.2.2:

External walls	R[insert value]
Roof	R[insert value]
Ceiling	R[insert value]
Under floor	R[insert value]
Under slab	R[insert value]
Side slab	R[insert value]
- Insulation shall be installed tight and continuous, without gaps and cracks, hard up against internal linings (including subfloor). There shall be no air gap between an internal lining and insulation. Junctions between internal and external walls shall be insulated.
- Insulation shall not be crushed or compressed.
- Box gutters and manhole covers shall be insulated to the same R-value as the roof, using insulation batts or blanket or closed-cell foam.
- Downlights shall be stamped as IC4 rated, airtight and covered by insulation.
- [in climate zones 6, 7 and 8] a vapour permeable layer shall be installed per manufacturer's instructions in all new external walls. The material shall be overlapped and fully taped on the external side to ensure a tight seal. All penetrations in the membrane shall be sealed, ensuring that the material covers gaps between studs and doors and window frames. Any flashing around windows shall be taped over the building wrap.
- Where a foil-backed membrane is used, timber battens shall be used to minimise thermal conduction.
- All trades shall be instructed to replace any insulation they have removed in the course of their work and to tape any cuts/penetrations in building wrap. All penetrations shall be caulked using a fit-for-purpose flexible sealant.
- All redundant openings such as decommissioned chimneys and wall vents shall be sealed off at top and bottom, unless an unflued gas heater is present.
- Caulking products shall be appropriate for the intended application.
- Before installing mouldings, a fit-for-purpose, long-lasting proprietary tape or flexible caulking product shall be used to seal junctions of:
  - Plasterboard and floor
  - Plasterboard and top plate (for square set cornices)
  - Vertical and horizontal plasterboard
  - Tops, bottoms and sides of architraves and plasterboard.All exhaust fans and ducts, including rangehoods, shall be fitted with self-closing mechanisms.
- Where it is not possible to insulate under an existing timber floor, gaps between floorboards shall be sealed before applying finishes or coverings.
- External doors and windows shall be draughtproofed per BCA 13.4.4 using a durable, fit-for-purpose seal.
- Cavity slider pockets shall be sealed before installation, either by wrapping with vapour permeable membrane, or by screwing plaster securely to the frame and applying a silicon bead.
- Conditioned Class 1 and unconditioned Class 10a spaces shall be separated by insulation. Any openings between such spaces shall be weather-stripped.
- The client retains the right to implement a blower door test to test for air tightness prior to painting. Target air permeability is not more than [insert] m<sup>3</sup>/hr.m<sup>2</sup> at 50 Pa.
- Window sizes nominated are nominal. Actual size may vary minimally according to manufacturer; however, opening styles, overall size, U-value and SHGC values are inbuilt into the energy rating and may not be altered without the express approval of the project's energy rater.
- Glazed doors and windows shall be [insert] wind rated, double-glazed, weather-stripped and flashed all around.
- Openable windows shall be provided with flyscreens.



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SITE & AREA ANALYSIS		
	M2	%
SITE (APPROX)	401	
SITE COVERAGE	240.54	59.99
PERMEABILITY	139.79	34.86
GARDEN AREA	137.38	34.26
PROPOSED DWELLING		
	AREA	sq
GROUND FLOOR	199.66	21.49
GARAGE	35.79	3.85
PORCH	5.09	0.55
TOTAL AREA	240.54	25.89

## LEGEND

DP 100 x 50mm SELECTED COLORBOND DOWNPIPE

RWH 100 x 50mm COLORBOND DOWNPIPE WITH SELECTED RAIN WATER HEAD

CON. CONCEALED DOWNPIPE WITHIN STRUCTURE

FLOOR WASTE

EXTERNAL TAP POINT

RECYCLED WATER TAP

GAS METER

WATER METER

100MM DEEP X 400MM WIDE COLORBOND BOX GUTTER (ADJUST ON SITE TO SUITE)

DIRECTION OF ROOF FALL

MIN. 100 Ø mm U.P.V.C. SEWER DRAIN CLASS "SH" CONNECTED INTO LEGAL POINT OF DISCHARGE AS DIRECTED BY LOCAL AUTHORITY.

100mm PVC RISER PIPE CONNECTER TO STORMWATER DISCHARGE PIPE

GRATED INLET PIT/SILT TRAP CONNECTED TO STORMWATER SYSTEM DIRECTED TO LEGAL POINT OF DISCHARGE

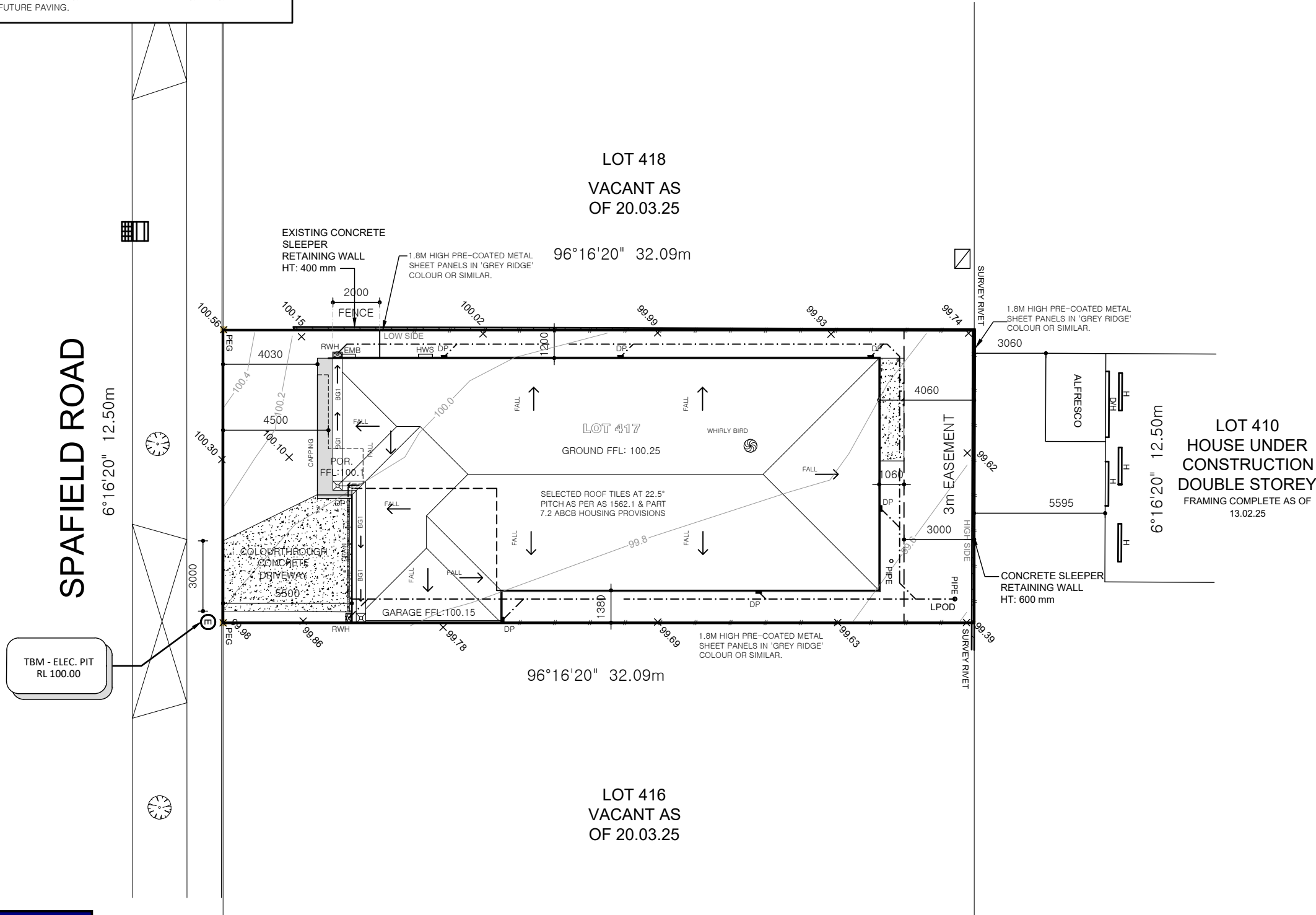
AGI PROVIDE AGRICULTURAL DRAIN OR SIMILAR AT BASE OF CUT GRADED TO SILT TRAP AT 1:00 MIN. DRAINS SHALL BE PROTECTED BY GRAVEL FILTERS.

DRAINAGE NOTES:  
ALL SURFACE DRAINAGE WORKS SHALL BE INSTALLED IN ACCORDANCE WITH THE ENGINEERS DESIGN DETAIL FOR THE SELECTED FOOTING SYSTEM AND SOIL CLASSIFICATION AND IN ACCORDANCE WITH CLAUSE 5.6.3 DRAINAGE REQUIREMENTS OF AS2870-2011, WHEREIN FOR BUILDINGS ON MODERATELY, HIGHLY AND REACTIVE SITES:  
SURFACE DRAINAGE SHALL BE CONTROLLED THROUGHOUT CONSTRUCTION AND BE COMPLETED BY THE FINISH OF CONSTRUCTION.  
THE BASE OF TRENCHES SHALL SLOPE AWAY FROM THE BUILDING.  
WHERE PIPES PASS UNDER THE FOOTING SYSTEMS, CLAY PLUGS ARE ADOPTED TO PREVENT THE INGRESS OF WATER.  
OR BUILDINGS ON HIGHLY AND REACTIVE SITES, THE DRAINER SHALL PROVIDE DRAINAGE ARTICULATION TO ALL STORMWATER, SANITARY PLUMBING DRAINS AND DISCHARGE PIPES IN ACCORDANCE WITH CLAUSE 5.6.4 PLUMBING REQUIREMENTS, WHEREIN FLEXIBLE JOINTS IMMEDIATELY OUTSIDE THE FOOTING AND COMMENCING WITHIN 1M OF THE BUILDING PERIMETER ARE REQUIRED TO ACCOMMODATE THE REQUIRED DIFFERENTIAL MOVEMENT BASED ON THE SOIL CLASSIFICATION.

SURFACE WATER MUST BE DIVERTED AWAY FROM THE DWELLING AND GRADED AWAY FROM ALL FOUNDATIONS TO GIVE A SLOPE OF NOT LESS THAN 50MM OVER THE FIRST 1000MM FROM THE DWELLING

SUBSURFACE DRAINS TO REMOVE GROUND OR TABLE WATER SHALL BE DETAILED BY THE DESIGN ENGINEER. FURTHERMORE, DAMP-PROOFING MEMBRANE IN ACCORDANCE WITH NCC 2022 PART 3.3 ABCB SHALL BE INSTALLED FOR GROUNDWATER OR AGGRESSIVE SOILS

SITE CUT AND FILL TO BE MINIMUM OF 1.2M FROM DWELLING BOUNDARY AND BATTERED AT NO MORE THAN 45° SITE CUTS/FILLING WORKS NOT TO SUPPORTED BY RETAINING WALLS SHALL BE FINISHED WITH A BATTER OF A 45°AND AN AGRICULTURAL DRAIN AT THE BASE OR A SPOON DRAIN AT THE END OF ANYFUTURE PAVING.



## BUSH FIRE ATTACK SPECIFICATIONS:

FOLLOWING ITEMS TO COMPLY WITH BAL-12.5

### FLOORS:

- CONCRETE SLAB ON GROUND
- WEEP HOLES TO ENTIRE HOUSE TO BE SCREENED WITH A 2mm APERTURE ALUMINUM MESH
- ALL GAPS GREATER THAN 3mm IN EXTERNAL CLADDING TO BE SEALED
- EXTERNAL CLADDING LESS THAN 400mm FROM GROUND, PORCH, ALFRESCO OR BALCONY FLOORS & ROOFS WITH A PITCH OF LESS THAN 18° TO BE NON-COMBUSTABLE OR 6mm FIBRE-CEMENT.

### WINDOWS:

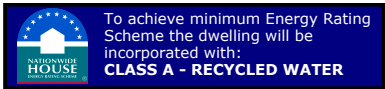
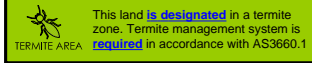
- WINDOWS LESS THAN 400mm FROM GROUND, PORCH, ALFRESCO OR BALCONY FLOORS & ROOFS WITH A PITCH OF LESS THAN 18° TO BE METAL OR COMPLIANT BAL 12.5 TIMBERS. GLAZING TO THESE WINDOWS TO BE 4mm SAFETY GLASS.
- ALUMINUM FRAMED FLY SCREENS WITH A 2mm APERTURE ALUMINUM MESH TO ALL OPENING SASHES.
- EXTERNAL FRAMES TO BE METAL OR COMPLIANT BAL 12.5 TIMBERS
- EXTERNAL TIMBER DOORS TO BE NON-COMBUSTABLE OR 35mm THICK SOLID CORE DOOR OR SCREENED AS PER OPENABLE WINDOWS.
- GLAZING TO DOORS LESS THAN 400mm FROM GROUND, PORCH, ALFRESCO OR BALCONY FLOORS & ROOFS WITH A PITCH OF LESS THAN 18° TO BE 4mm SAFETY GLASS.
- PROVIDE WEATHER STRIPS TO PERIMETER OF SECTIONAL/PANEL LIFT GARAGE DOORS NYLON BRUSH TO GUIDE TRACK OF ROLLER DOOR TO ENSURE NO GAPS GREATER THAN 3mm.

### ROOFING:

- SARKING TO ENTIRE ROOF EXTENDING INTO GUTTER AND VALLEYS.
- ROOF VENTS TO BE INSTALLED TO VENT ROOF SPACE AND TO HAVE A 2mm APERTURE ALUMINUM MESH EMBER GUARD INSTALLED
- ALL ROOF PENETRATIONS TO HAVE 2mm APERTURE ALUMINUM MESH EMBER GUARDS INSTALLED AND SEALED WITH A NON-COMBUSTABLE SEALANT.
- SHEET ROOFING WITH GAPS GREATER THAN 3mm TO BE SEALED AT THE FASCIA OR WALL LINE & AT THE VALLEYS, HIPS AND RIDGES WITH A 2mm APERTURE ALUMINUM MESH OR MINERAL WOOL.
- EVAPORATIVE COOLING UNITS, WHERE INSTALLED, TO BE FITTED WITH BUTTERFLY CLOSERS AS CLOSE AS PRACTICABLE TO THE ROOF LEVEL.
- ROOF FLASHINGS TO BE NON-COMBUSTABLE

### GENERAL:

- ALL GAPS GREATER THEN 3mm TO ANY EXTERNAL ELEMENT TO BE SEALED.
- WATER AND GAS SUPPLY PIPES TO BE METAL IF ABOVE GROUND



DRAWING TITLE

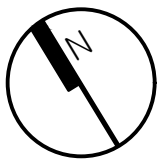
Site/roof PLAN

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SOUTH MORANG CORPORATE CENTRE





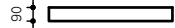
WALL CONSTRUCTION

EXTERNAL WALL CONSTRUCTION

- 190 HEBEL PANEL CONSTRUCTION (TYP)

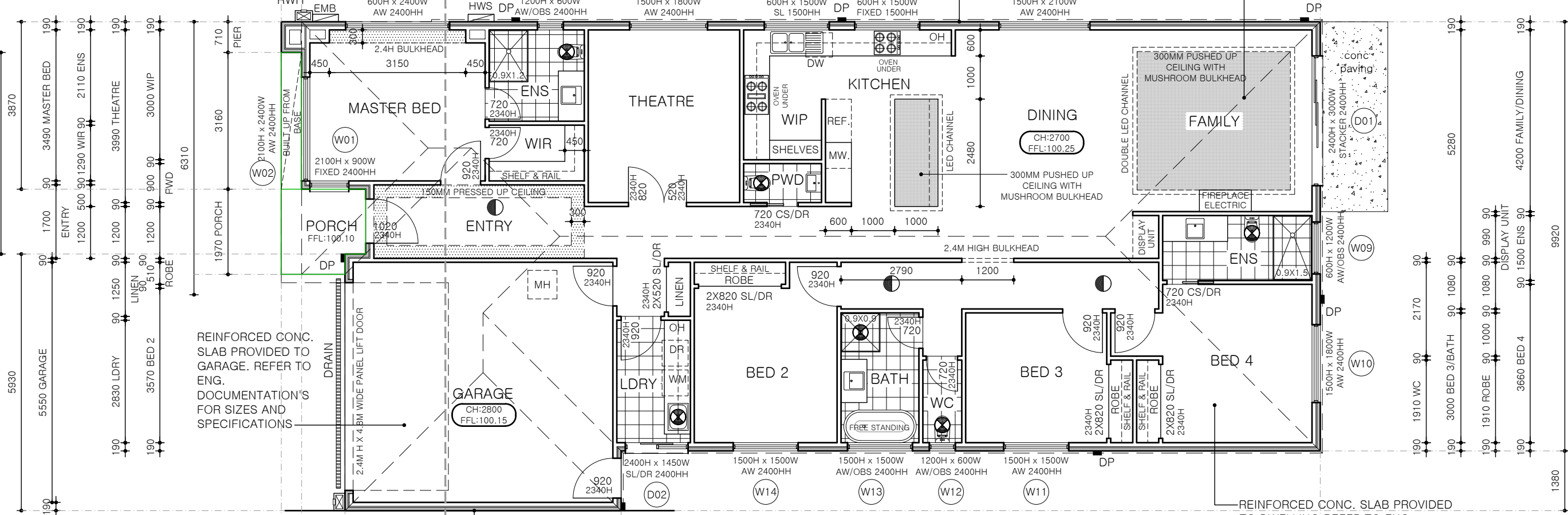
INTERNAL WALL CONSTRUCTION

- 90MM X 45MM MGP10 TIMBER STUDS (TYP)



SELECTED 75MM HEBEL WALL CONSTRUCTION.

ROOF TRUSSES AS PER MANUFACTURERS DESIGN AND SPECIFICATIONS. MANUFACTURERS COMPUTATIONS TO BE PROVIDED PRIOR TO FRAME INSPECTION.



VENTILATION NOTES

VENTILATION OF ROOF SPACES TO BE IN ACCORDANCE WITH NCC 2022 VOLUME TWO ABCB PART 10.8.3

AN EXHAUST SYSTEM INSTALLED IN A KITCHEN, BATHROOM, SANITARY COMPARTMENT OR LAUNDRY MUST HAVE A MINIMUM FLOW RATE OF.

A) This land is designated in a termite zone. Termite management system is required in accordance with AS3660.1

FLOW RATE AND DISCHARGE OF EXHAUST SYSTEM - NCC 2022 ABCB PART 10.8.2

RAI BAL 12.5

To achieve minimum Energy Rating Scheme the dwelling will be incorporated with: CLASS A - RECYCLED WATER



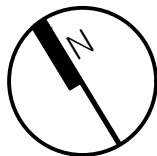
DRAWING TITLE  
Opes  
GROUND FLOOR PLAN

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BUILDING PERMIT NUMBER: CBS-U 66127/9667265168824  
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PROJECT:  
PROPOSED DWELLING  
AT:  
LOT 417(NO.59) SPAFIELD ROAD,  
BEVERIDGE, VIC, 3753  
FOR:  
FUSION ENGINEERING

DRAWN: JT-JW  
DATE: 10/03/2024  
SCALE: 1:100 (A3)  
JOB NO: 10102025  
STATUS: WORKING DRAWINGS  
PG NO: 04

REV	DATE	AMENDMENT
A	13.03	DA RFI
B	20.03	BUILDING PERMIT



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5B / 2 MURDOCH ROAD SOUTH MORANG  
SOUTH MORANG CORPORATE CENTRE

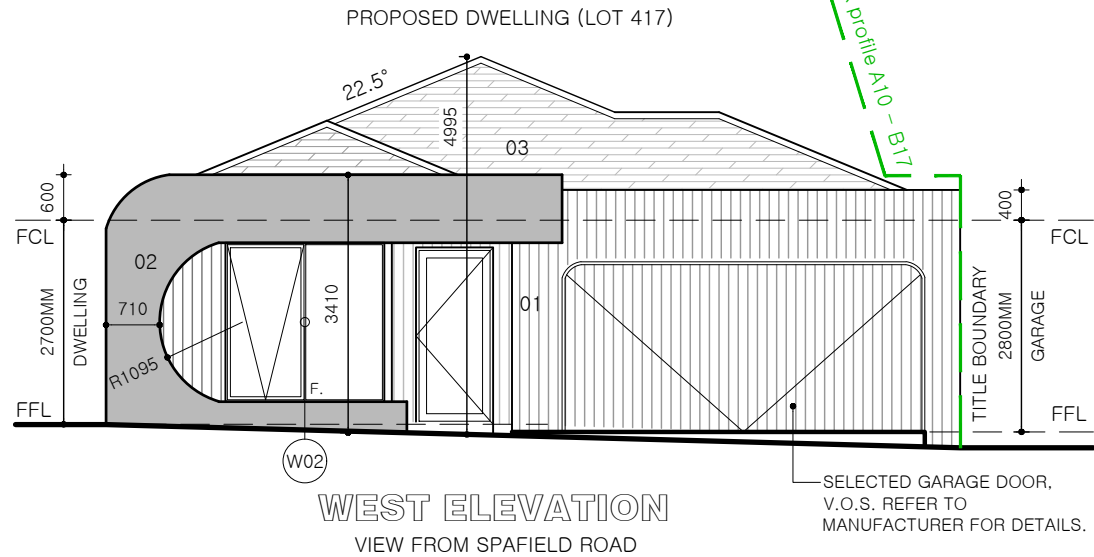


LEGEND

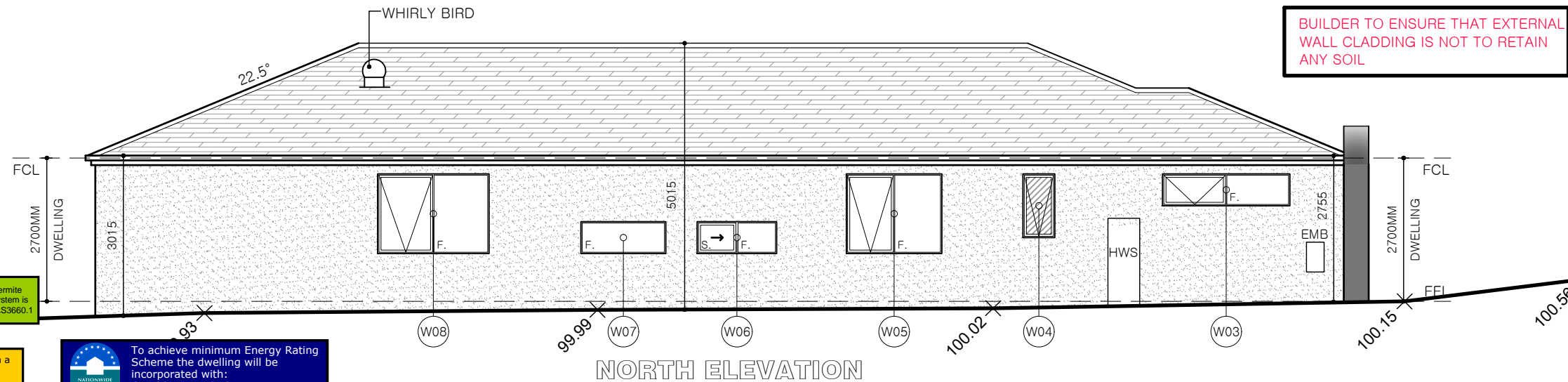
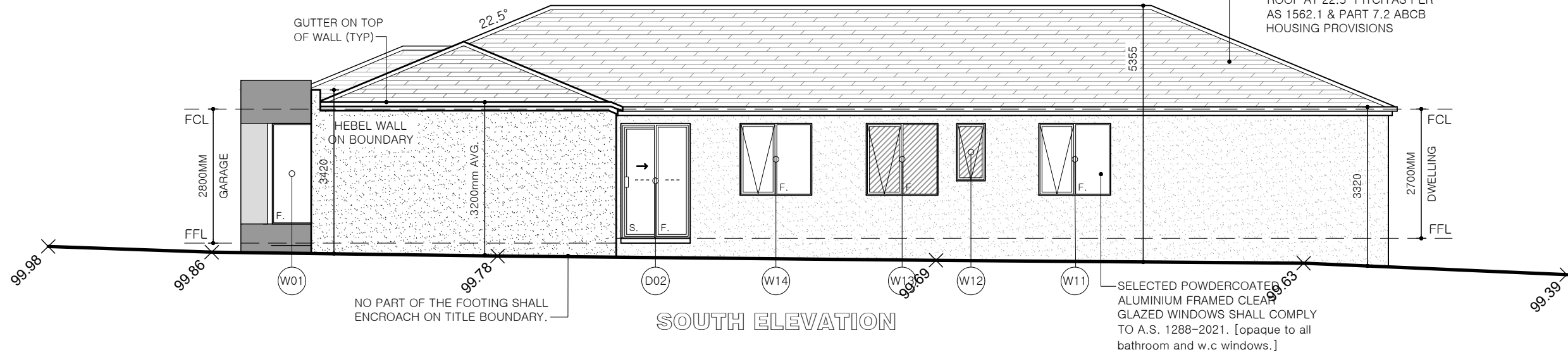
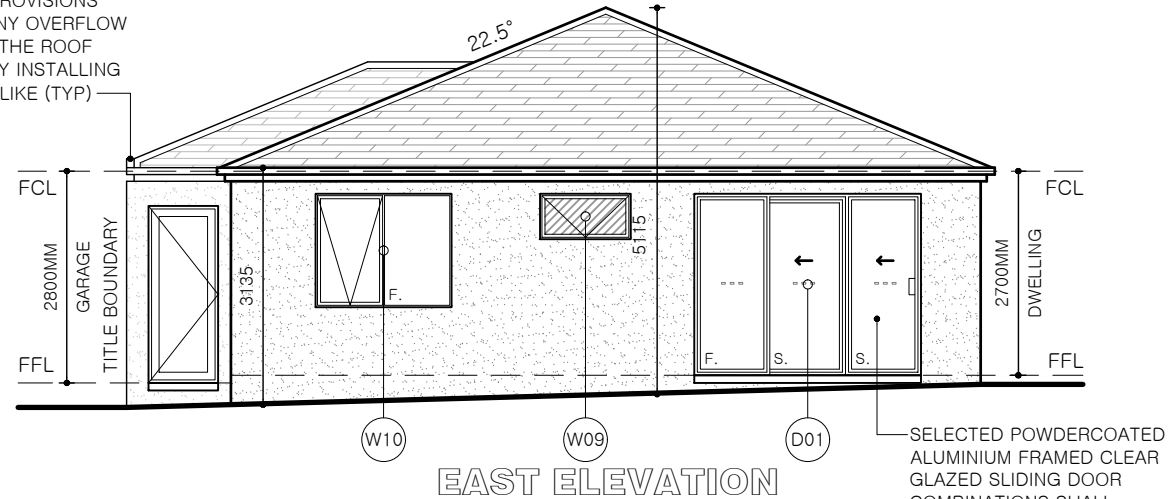
- SELECTED CONCRETE FINISH
- SELECTED WET AREAS (TILED)
- MH ROOF ACCESS HOLE
- SMOKE ALARM
- EXHAUST FAN
- AJ ARTICULATION JOINT
- PS PLUMBING STACK
- CAPPED GAS POINT
- CAPPED WATER POINT
- FLOOR WASTE
- EXTERNAL TAP POINT
- GM GAS METER
- CHANGED CEILING

NOTES

- PERIMETER FLASHING AT FLOOR LEVEL OPENINGS IN WET AREA AS PER NCC 2022 PART 10.2 AND AS3740 - 2021.
- ALL GLAZING INCLUDING MIRRORS WITHIN 2000MM ABOVE THE FLOOR LEVEL IN BATHROOMS, ENSUITES, AND ROOMS OR ENCLOSURES CONTAINING SPAS SHALL BE GRADE A SAFETY GLASS OR GRADE B SAFETY GLASS IN ACCORDANCE WITH SECTION 5.8 OF AS 1288-2021.
- ALL WATERPROOFING TO BE IN ACCORDANCE WITH NCC 2022 PART 10.2 AND AS3740 - 2010.
- PROVIDE P4 (WET SURFACE) AND P3 (DRY SURFACE) CLASSIFICATION SLIP RESISTANCE TO LANDING EDGE STRIP, NOSING OR TREAD SURFACE IN ACCORDANCE WITH AS 4586.
- ALL SMOKE DETECTORS TO BE HARDWIRED AND INTERCONNECTED IN ACCORDANCE WITH NCC 2022 SMOKE ALARMS TO BE KEPT 300MM MIN. FROM WALLS, BULKHEADS, DOORWAYS ECT.
- WHERE DOOR THRESHOLD EXCEEDS 190mm ABOVE FINISHED GROUND LEVEL PROVIDE A LANDING, A MIN. WIDTH, THE WIDTH OF THE DOOR LEAF OPENING ONTO IT. STEPS:- RISER - 190 MAX.TREAD - 240 MIN.
- SELECTED FACE BRICKWORK WITH REFLECTIVE FOIL SARKING TO ALL EXTERNAL WALLS U.N.O. TO COMPLY WITH A.S. 3700 - 2018. VERTICAL ARTICULATION JOINTS TO CONFORM WITH NCC 2022 VOL 2 PART 5 ABCB. PROVIDE WALL TIES TO BRICKWORK AT MAXIMUM 600mm CTRS IN EACH DIRECTION AND WITHIN 300mm OF ARTICULATION JOINTS. (TYP.)

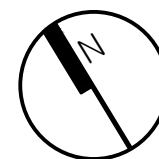
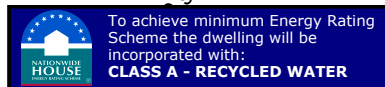
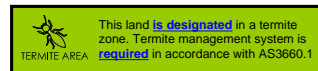


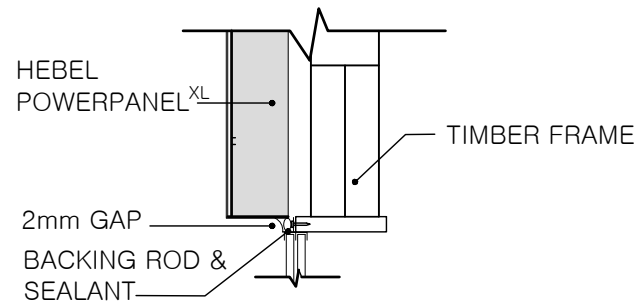
SELECTED COLORBOND GUTTER SET TO FALL 1 IN 500mm FIXED TO A COLORBOND FASCIA (TYP) WHERE HIGH FRONTED GUTTERS ARE INSTALLED. PROVISIONS MUST BE MADE TO AVOID ANY OVERFLOW FROM FLOWING BACK INTO THE ROOF OR BUILDING STRUCTURE BY INSTALLING SLOTTED GUTTERS OR THE LIKE (TYP)



## MATERIAL & COLOUR SCHEDULE

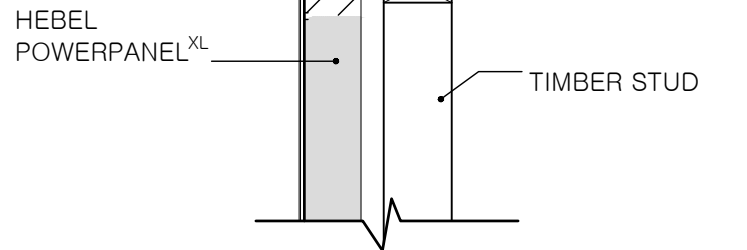
- 01 LIGHT WEIGHT CLADDING
  - MANUFACTURER: SCYON AXON
  - COLOUR: MONUMENT
- 02 RENDER FINISH
  - MANUFACTURER: DULUX
  - COLOUR: SHALE GREY
- 03 CONC TILED ROOF
  - MANUFACTURER: CONC TILED
  - CLASSIC COLOUR: DEEP SHADOW
- 04 WINDOW FRAMES
  - COLOUR: BLACK
- 05 GUTTERS / FASCIAS / DOWN PIPES
  - COLOUR: MONUMENT
- 06 GARAGE DOOR - CLADDING
  - MANUFACTURER: STEEL LINE - TILT
  - COLOUR: SCYON AXON OR SIMILAR MONUMENT
- 07 ELECTRICAL METER BOX
  - METER BOX
  - COLOUR: SHALE GREY
- 08 DRIVEWAY
  - EXPOSED AGGREGATE CONCRETE
  - COLOUR: CHARCOAL
- 09 FRONT DOOR
  - FRONT DOOR - PAINTED
  - COLOUR: SHALE GREY





HEBEL HEADER DETAIL  
SCALE 1:5

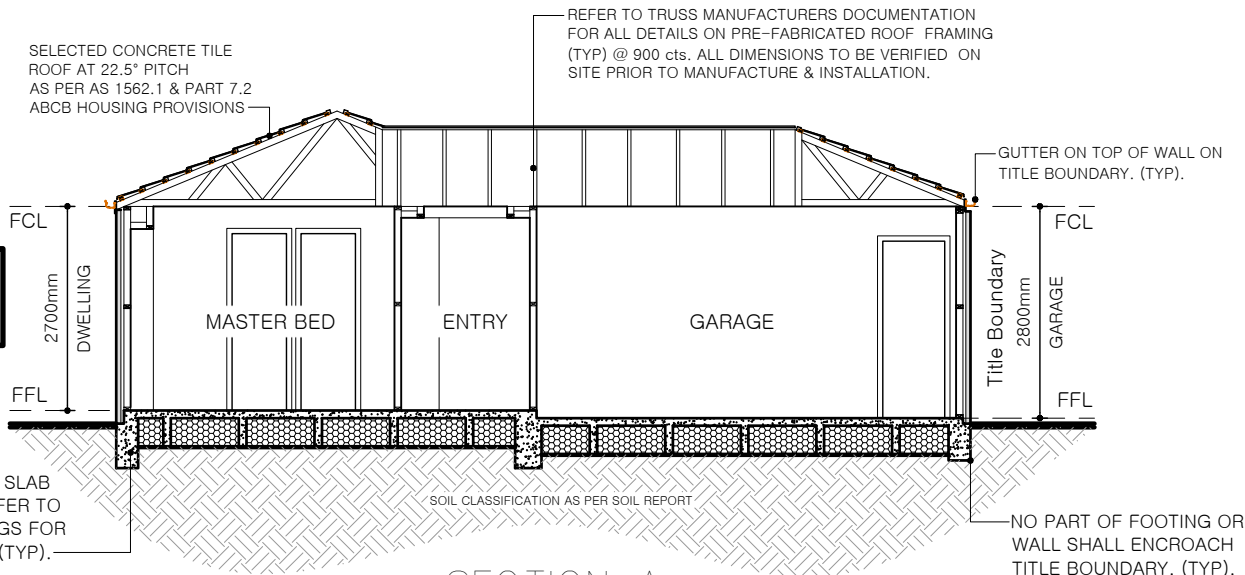
ALLOW A 10mm GAP FOR FRAME SHRINKAGE OR AS REQUIRED BY PROJECT ENGINEER



HEBEL WINDOW SILL DETAIL  
SCALE 1:5

BUILDER TO ENSURE THAT EXTERNAL WALL CLADDING IS NOT TO RETAIN ANY SOIL

REINFORCED CONC. SLAB TO ALL FLOORS. REFER TO ENGINEERS DRAWINGS FOR SIZES AND DETAILS (TYP).



SECTION A  
SCALE 1:100

STRUCTURAL TIMBER WORK – ALL STRUCTURAL TIMBER WORK AND ASSOCIATED CONNECTIONS SHALL COMPLY WITH A.S. 1720 TIMBER STRUCTURES CODE. ALL TIMBER MEMBERS SHALL BE STRESS GRADED AND MARKED IN ACCORDANCE WITH A.S. 2858, A.S. 1748, A.S. 1749 AND B.C.A. ALL TIMBER FRAMING INCLUDING FLOORS, WALLS AND ROOF, SHALL COMPLY WITH AS 1684 TIMBER FRAMING CODE. ALL WALL BRACING SHALL BE IN ACCORDANCE WITH A.S. 1684.

PROVIDE 10mm EXPANSION JOINTS @ 5000 MAX. CRS. IN MASONRY WALLS ABOVE OR CLOSE TO JUNCTIONS BETWEEN: DIFFERENT TYPES OF FOOTING SYSTEMS, FOOTINGS FOUNDED AT SIGNIFICANTLY DIFFERENT DEPTHS, OR FOOTINGS FOUNDED ON SIGNIFICANTLY DIFFERENT MATERIALS. (ie. CLAY & ROCK) ALSO WHERE NEW BRICKWORK ABUTTS EXISTING BRICKWORK.

TRUSS MANUFACTURERS SPECIFICATIONS TO BE PROVIDED PRIOR TO THEIR ERECTION AND LOAD BEARING POINTS I.E LINTELS, STUDS SUPPORTING CONCENTRATED LOADS TO BE DESIGNED BY TRUSS MANUFACTURER AND/OR STRUCTURAL ENGINEER. IF STRUCTURAL DESIGN WAS PROVIDED THE DESIGN ENGINEER TO VERIFY TRUSS LOCATIONS AND DESIGN FOR LOAD BEARING POINTS AS REQUIRED.

REFER TO TRUSS MANUFACTURERS DOCUMENTATION FOR ALL DETAILS ON PRE-FABRICATED ROOF FRAMING (TYP) @ 900 cts. ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO MANUFACTURE & INSTALLATION.

SELECTED CONCRETE TILE ROOFING AT 22.5° PITCH. ROOFING SHALL COMPLY TO A.S. 2050 – 2002 & A.S. 2049 – 2002. (TYP).

PROVIDE ANTI-PONDING DEVICE IN ACCORDANCE WITH NCC VOL 2

10MM THICK PLASTERBOARD CEILING & WALL LINING WITH COVE CORNICE

STUDS:90X45 MGP10 AT 450 CRS WITH NOGGINS AT 1350 MAX CRS

SELECTED BOX GUTTER ON 2/150MM X 25MM OBHWD GUTTER BOARD

PARAPET CAPPING & FLASHING

700 – 950 PARAPET

SELECTED 50MM HEBEL POWER PANELS TO EXTERNAL WALLS WITH RENDERED FINISH, INSTALLATION AS PER MANUFACTURES SPECS.

SELECTED CONCRETE TILE ROOFING AT 22.5° PITCH. ROOFING SHALL COMPLY TO A.S. 2050 – 2002 & A.S. 2049 – 2002. (TYP).

REFER TO TRUSS MANUFACTURERS DOCUMENTATION FOR ALL DETAILS ON PRE-FABRICATED ROOF FRAMING (TYP) @ 600 cts. ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO MANUFACTURE & INSTALLATION.

ROOF BATTENS: 38x75 F8 H.W. AT 330 CRS

SELECTED COLORBOND GUTTER SET TO FALL 1 IN 500mm FIXED TO A COLORBOND FASCIA (TYP) WHERE HIGH FRONTED GUTTERS ARE INSTALLED, PROVISIONS MUST BE MADE TO AVOID ANY OVERFLOW FROM FLOWING BACK INTO THE ROOF OR BUILDING STRUCTURE BY INSTALLING SLOTTED GUTTERS OR THE LIKE (TYP)

10mm PLASTERBOARD WALL & CEILING LINING, FOR FIXING REFER TO MANUFACTURERS DETAILS. STUDS AT 450 MAX. CENTRES. (TYP)

STUDS:90X45 MGP10 AT 450 CRS WITH NOGGINS AT 1350 MAX CRS

SELECTED 75MM HEBEL POWER PANELS TO EXTERNAL WALLS WITH RENDERED FINISH, INSTALLATION AS PER MANUFACTURES SPECS.

SELECTED CONCRETE TILE ROOFING AT 22.5° PITCH. ROOFING SHALL COMPLY TO A.S. 2050 – 2002 & A.S. 2049 – 2002. (TYP).

REFER TO TRUSS MANUFACTURERS DOCUMENTATION FOR ALL DETAILS ON PRE-FABRICATED ROOF FRAMING (TYP) @ 900 cts. ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO MANUFACTURE & INSTALLATION.

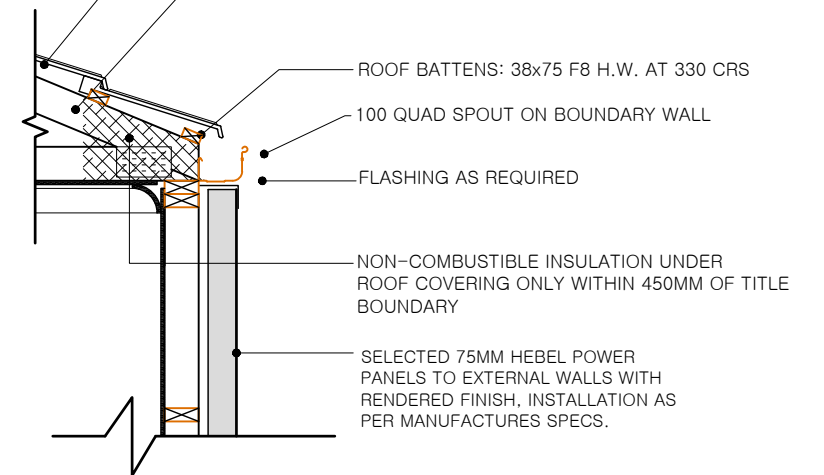
ROOF BATTENS: 38x75 F8 H.W. AT 330 CRS

100 QUAD SPOUT ON BOUNDARY WALL

FLASHING AS REQUIRED

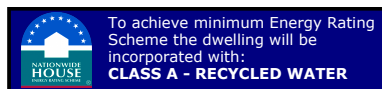
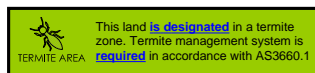
NON-COMBUSTIBLE INSULATION UNDER ROOF COVERING ONLY WITHIN 450MM OF TITLE BOUNDARY

SELECTED 75MM HEBEL POWER PANELS TO EXTERNAL WALLS WITH RENDERED FINISH, INSTALLATION AS PER MANUFACTURES SPECS.



GUTTER ON BRICKWORK DETAIL  
SCALE 1:20

FASCIA & GUTTER DEATIL  
SCALE 1:20



DRAWING TITLE

**SECTION / DETAILS**

THIS DOCUMENT IS THE SUBJECT OF -

BUILDING PERMIT NUMBER: **CRS-U 66127/9667265168824**

ISSUED DATE: **26/03/2025**

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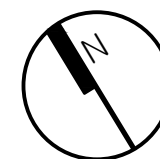
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PROJECT:  
PROPOSED DWELLING  
AT:  
LOT 417(NO.59) SPAFIELD ROAD,  
BEVERIDGE, VIC, 3753  
FOR:  
FUSION ENGINEERING

DRAWN: JT-JW  
DATE: 10/03/2024  
SCALE: 1:100 (A3)  
JOB NO: 10102025  
STATUS: WORKING DRAWINGS  
PG NO: 06

REV	DATE	AMENDMENT
A	13.03	DA RFI
B	20.03	BUILDING PERMIT

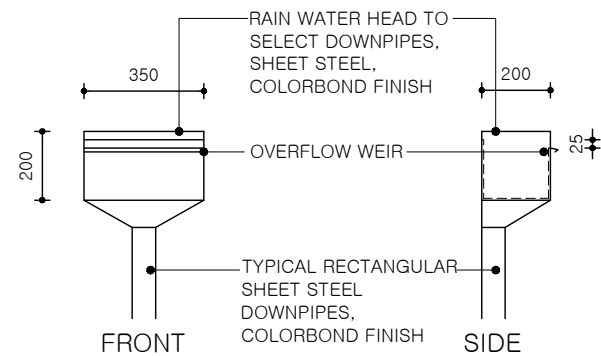


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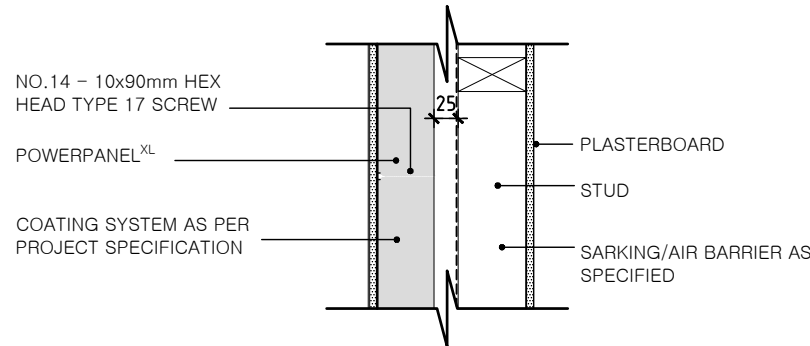
5B / 2 MURDOCH ROAD SOUTH MORANG  
SOUTH MORANG CORPORATE CENTRE







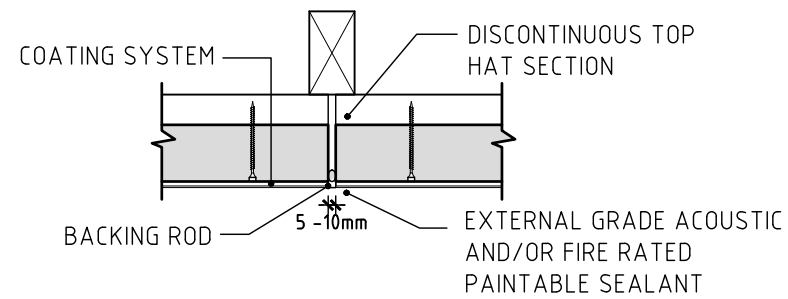
RAIN WATER HEAD DETAIL  
SCALE 1:10



HEBEL POWERPANEL XL EXTERNAL FIXING DETAIL  
SCALE 1:10

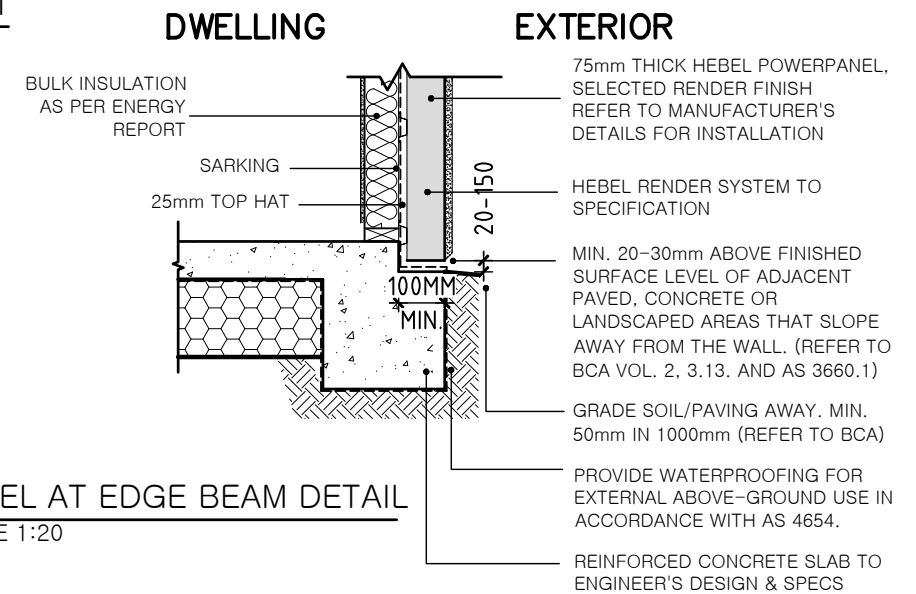
CONTACT HEBEL TECHNICAL SERVICES FOR INTERNAL FIX BOUNDARY LINE DETAILS.

NOTE: WHEN POSITIONING THE STUD FRAMES ALLOW 5-7mm EXTRA CAVITY WIDTH FOR THE SHEET BRACING BETWEEN TOP HAT AND TIMBER STUD.



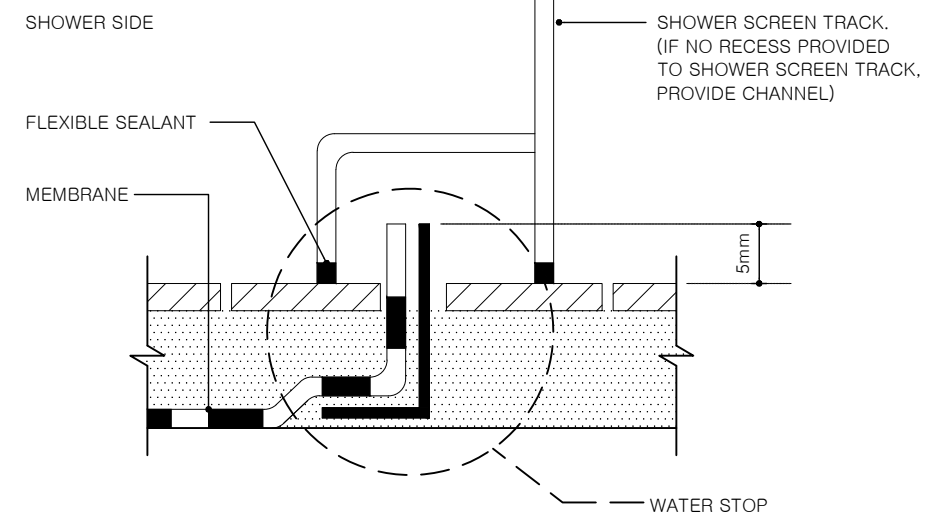
TYPICAL VERTICAL CONTROL JOINT  
SCALE 1:20

- DRAINAGE NOTES:**
1. SITE DRAINAGE SHALL COMPLY WITH NCC 3.1.2 'DRAINAGE' AND AS 3500 'NATIONAL PLUMBING CODE'.
  2. BASE OF CUT GRADED TO SILT PIT AT 1:100 MIN. DRAINS SHALL BE PROTECTED BY GRAVEL FILTERS.
  3. TEMPORARY DOWNPIPES CONNECTED TO THE STORMWATER SYSTEM TO BE INSTALLED AS SOON AS ROOF COVER IS COMPLETED.
  4. STORMWATER DRAINS ARE INDICATIVE ONLY, DRAINER TO CONNECT TO LEGAL POINT OF DISCHARGE AT THEIR DISCRETION.
- GRADE SURFACE AWAY FROM HOUSE FOOTINGS (MINIMUM FALL 1:20)

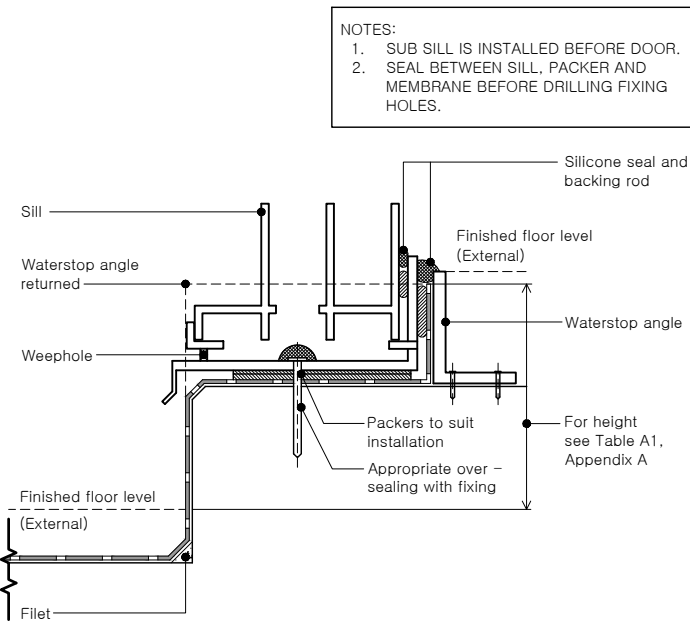


HEBEL AT EDGE BEAM DETAIL  
SCALE 1:20

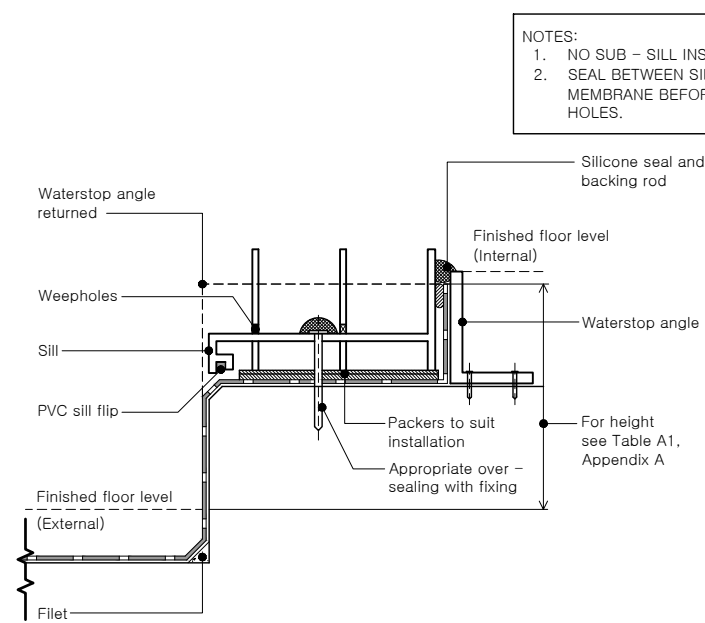
- A WATERSTOP SHALL BE POSITIONED SO THAT ITS VERTICAL LEG WILL FINISH A MINIMUM OF 5MM ABOVE THE FINISHED FLOOR LEVEL, WHERE A SHOWER SCREEN IS TO BE INSTALLED.
- WHERE THE WATER STOP INTERSECTS WITH A WALL OR IS JOINED, THE JUNCTION SHALL BE WATERPROOF.



WATER STOP DERAIL FOR ENCLOSED SHOWER WITH NO STEP DOWN  
NOT TO SCALE



- NOTES:**
1. SUB SILL IS INSTALLED BEFORE DOOR.
  2. SEAL BETWEEN SILL, PACKER AND MEMBRANE BEFORE DRILLING FIXING HOLES.



- NOTES:**
1. NO SUB - SILL INSTALLED.
  2. SEAL BETWEEN SILL/PACKER AND MEMBRANE BEFORE DRILLING FIXING HOLES.

EXTERNAL WATERPROOFING DETAIL  
NOT TO SCALE

EXTERNAL WATERPROOFING DETAIL  
NOT TO SCALE

TERMITE AREA  
This land is designated in a termite zone. Termite management system is required in accordance with AS3660.1

BUSHFIRE  
This land is located within a Bushfire Prone Zone.  
**BAL 12.5**

TO achieve minimum Energy Rating Scheme the dwelling will be incorporated with:  
**CLASS A - RECYCLED WATER**

**PLANFORM**  
BUILDING DESIGN

**Opes**  
BUILDING SOLUTIONS

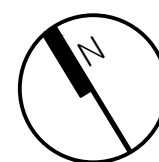
**DRAWING TITLE**  
PROPOSED DWELLING  
DETAILS

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PROJECT:  
**PROPOSED DWELLING**  
AT:  
**LOT 417(NO.59) SPAFIELD ROAD,  
BEVERIDGE, VIC, 3753**  
FOR:  
**FUSION ENGINEERING**

DRAWN: **JT-JW**  
DATE: **10/03/2024**  
SCALE: **1:100 (A3)**  
JOB NO: **10102025**  
STATUS: **WORKING DRAWINGS**  
PG NO: **07**

REV	DATE	AMENDMENT
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5B / 2 MURDOCH ROAD SOUTH MORANG  
SOUTH MORANG CORPORATE CENTRE

**Design Matters**  
National  
The peak body for the  
building design profession  
Member

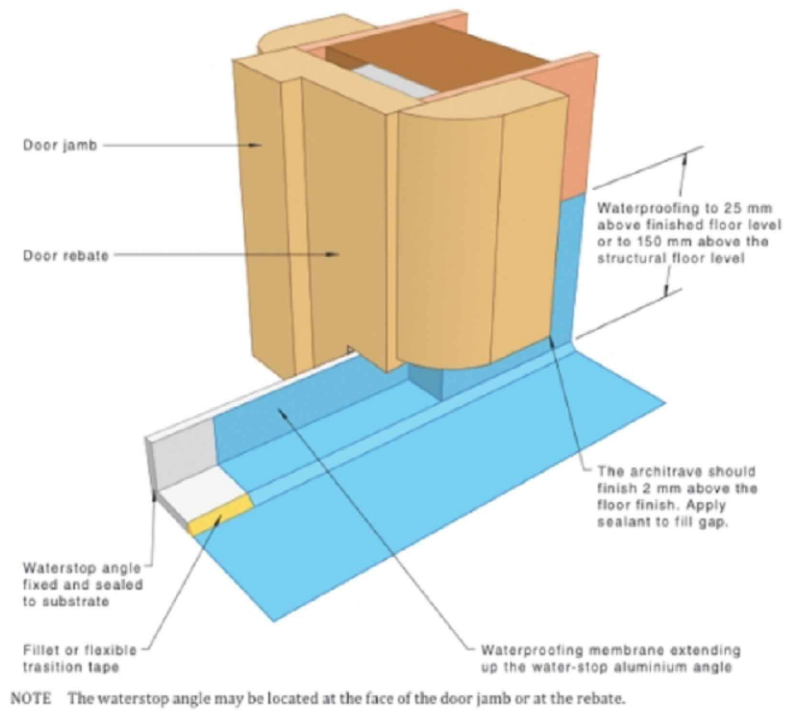


Figure 4.9.1(A) — Example of liquid waterproofing at door opening framework

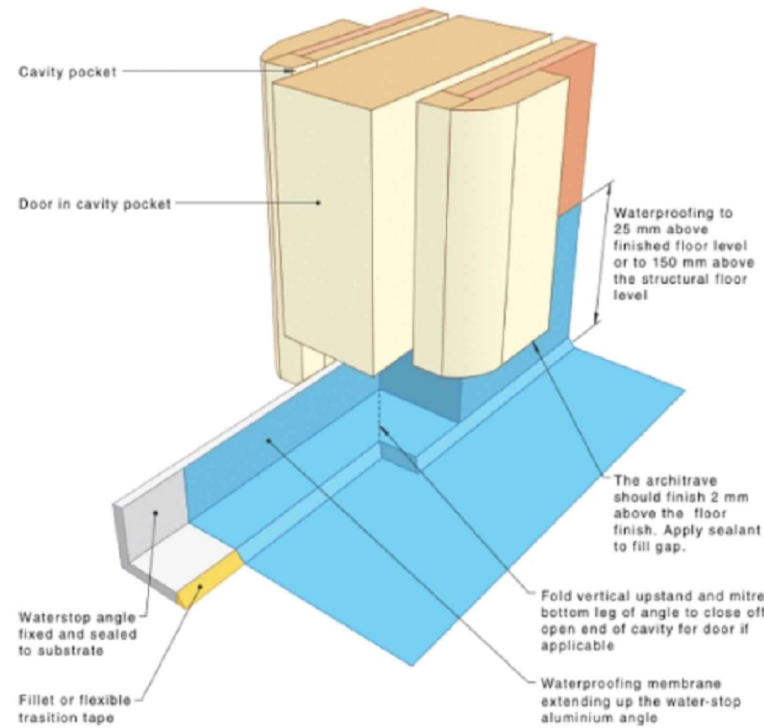
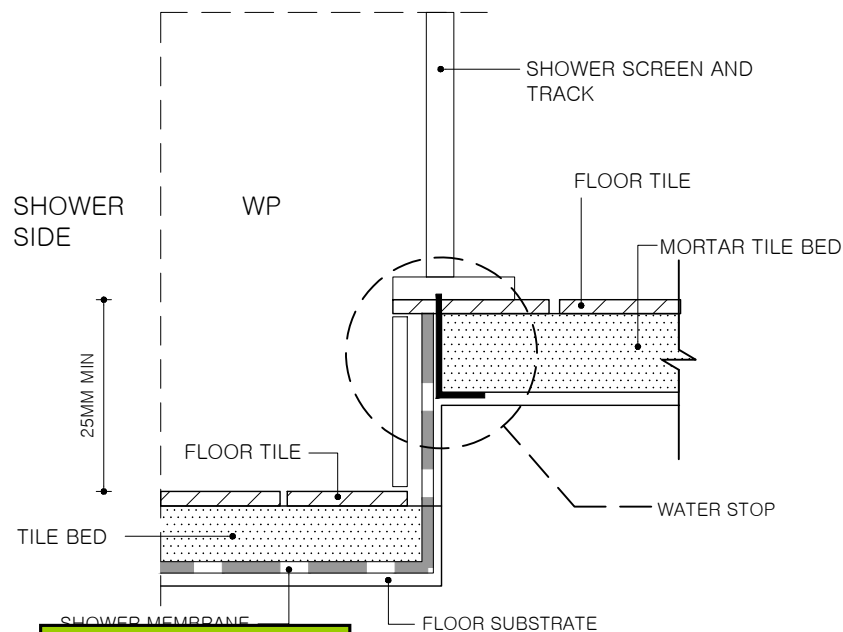


Figure 4.9.1(B) — Waterproofing at door opening cavity slider

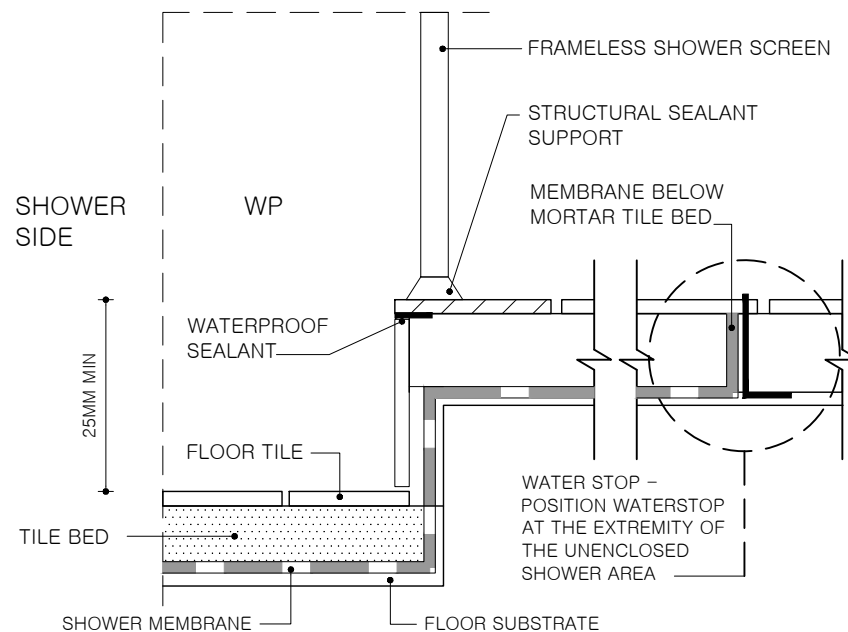
## PERIMETER FLASHING DEATIL

NOT TO SCALE

A MINIMUM 25MM STEP DOWN FROM THE HIGHEST FINISHED FLOOR LEVEL OF THE SHOWER AREA TO THE LEVEL OUTSIDE THE SHOWER



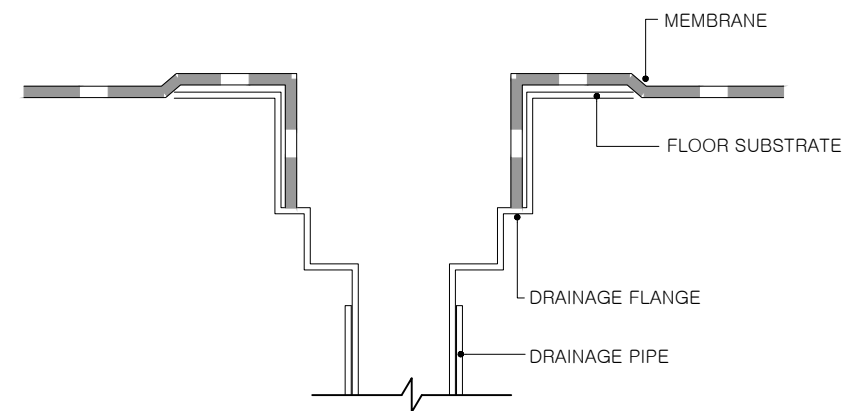
A MINIMUM 25MM STEP DOWN FROM THE HIGHEST FINISHED FLOOR LEVEL OF THE SHOWER AREA TO THE LEVEL OUTSIDE THE SHOWER



WATERPROOF AS PER AS 3740 AND NCC 2022 PART 10.2

## SHOWER WATERPROOFING DETAIL

NOT TO SCALE

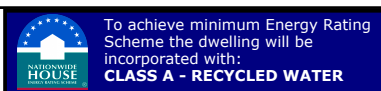
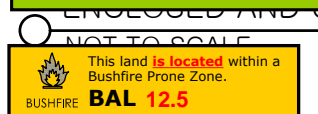
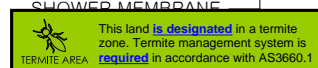


CLASS 1 BUILDING  
CONCRETE – MAY SIT ON TOP OF CONCRETE OR TILE BED  
OTHER FLOORS – RECESSED INTO FLOOR SUBSTRATE OR TILE BED

CLASS 2-9 BUILDINGS  
– MUST BE RECESSED INTO THE FLOOR

## FLOOR WASTE – TYPICAL MEMBRANE TERMINATION AT DRAINAGE OUTLET

NOT TO SCALE



DRAWING TITLE

**Opes**

BUILDING SOLUTIONS

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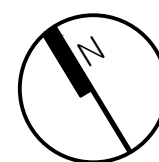
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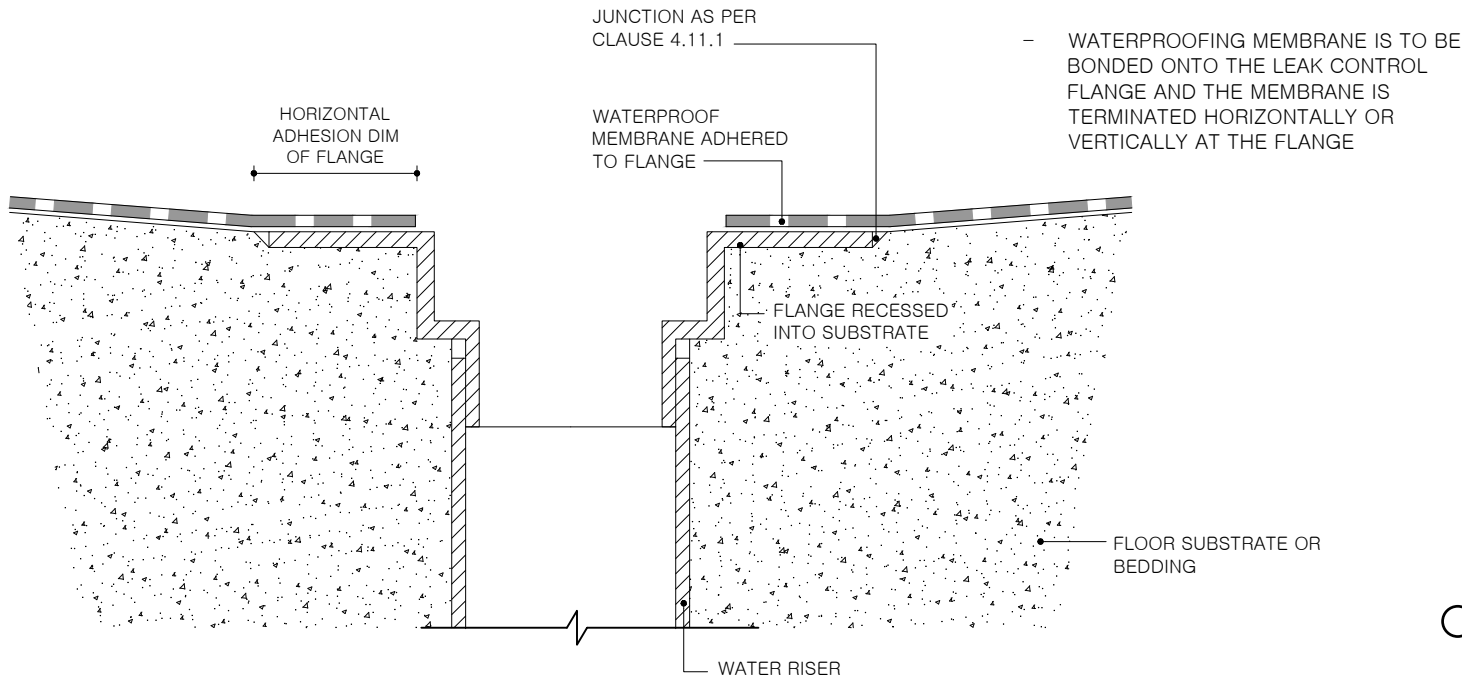


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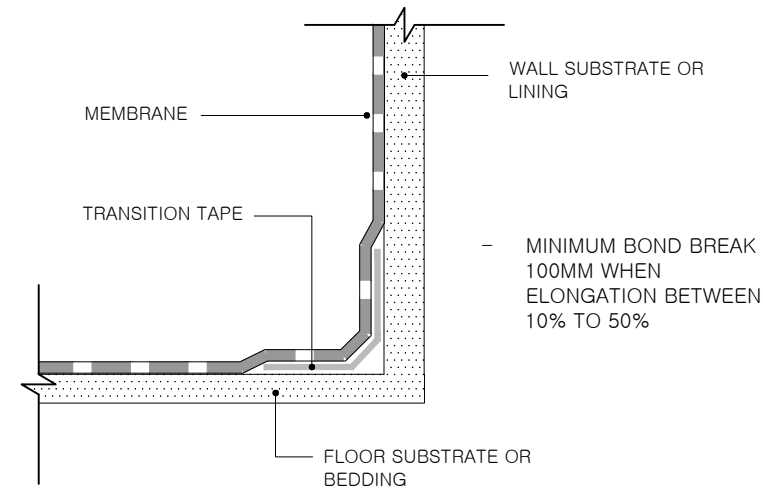
5B / 2 MURDOCH ROAD SOUTH MORANG  
SOUTH MORANG CORPORATE CENTRE



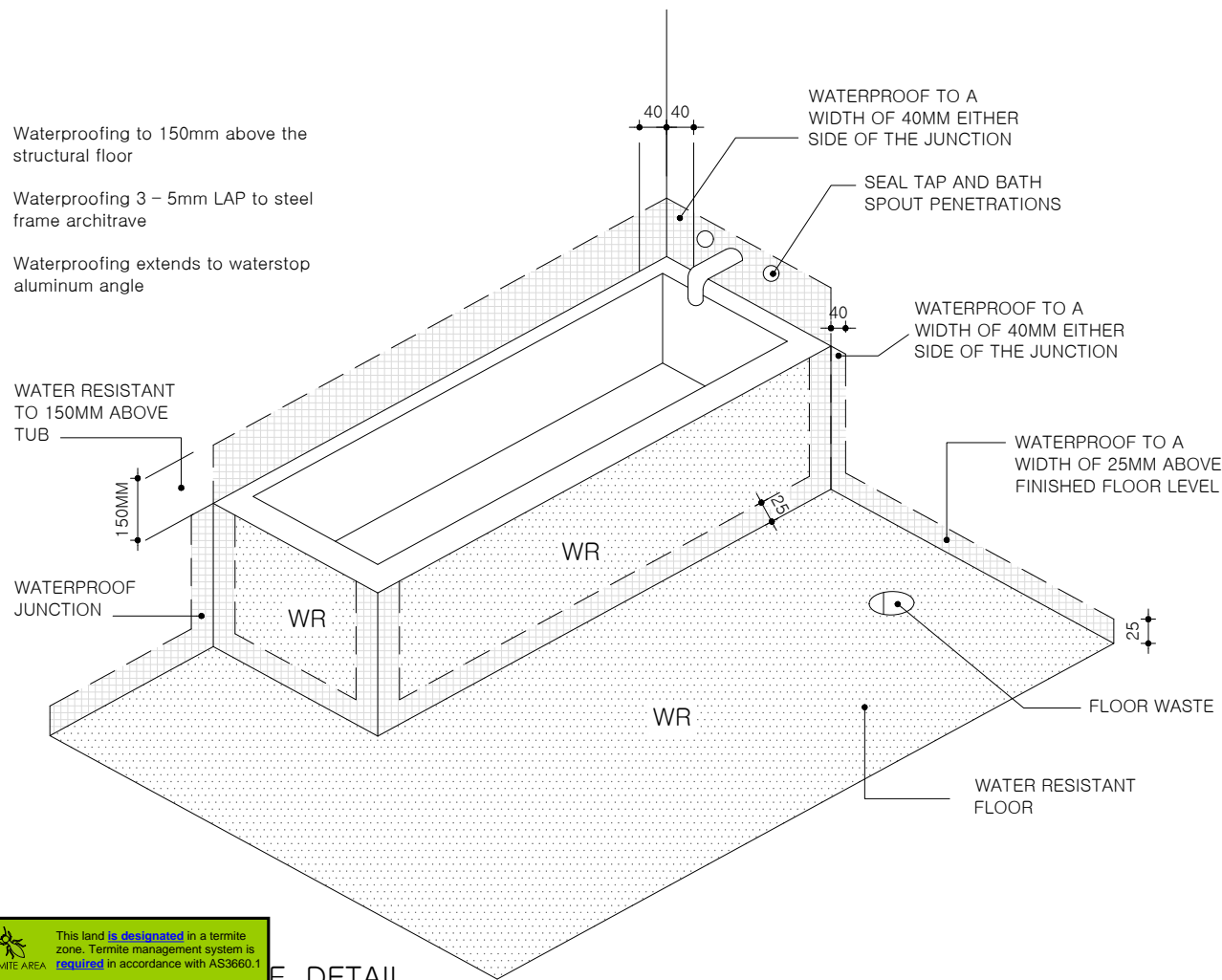




**MEMBRANE TO DRAINAGE FLANGE DETAIL**  
NOT TO SCALE

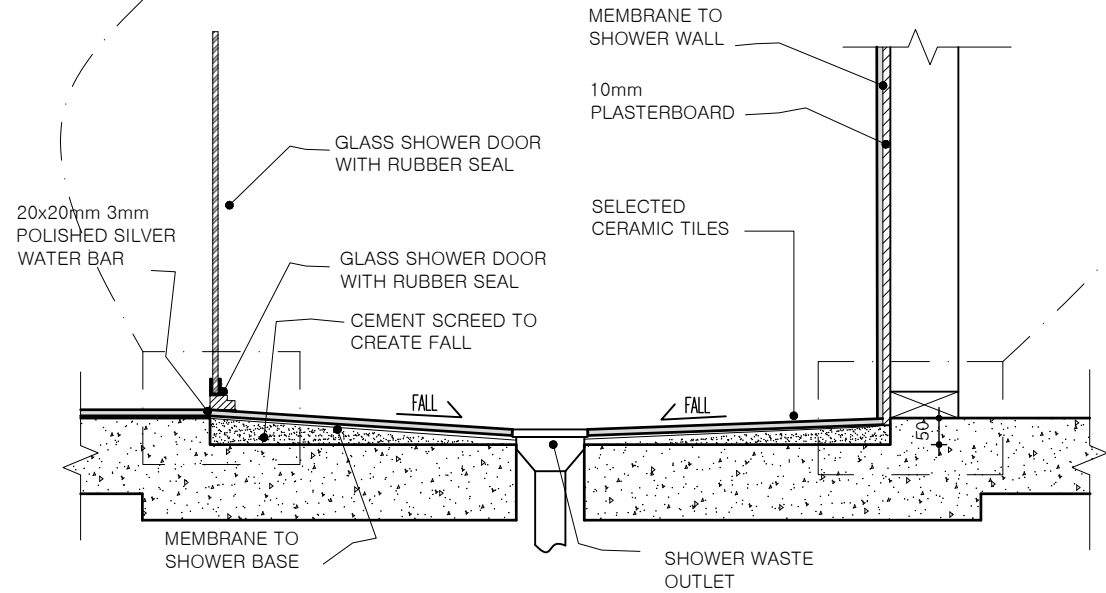
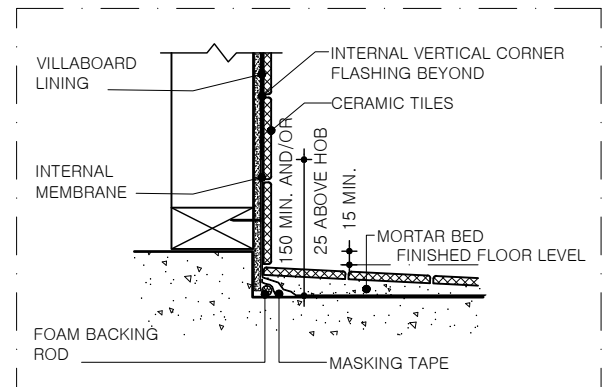
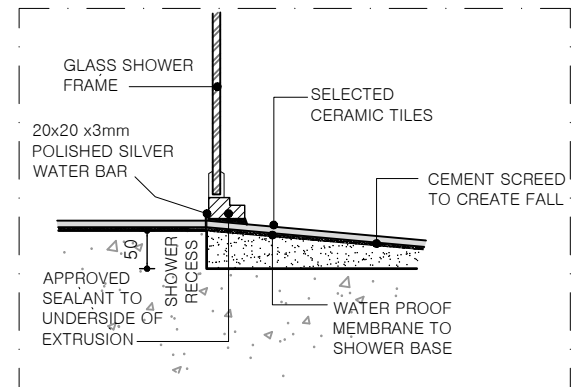


**BOND BREAKER DETAIL**  
NOT TO SCALE



**BATH WATERPROOF DETAIL**  
NOT TO SCALE

A JUNCTION WHERE WATERPROOFING TO WATERPROOFING SURFACES MEET, THE WATERPROOFING IS TO BE CONTINUOUS ACROSS THE JUNCTION AND INCORPORATE AN APPROPRIATE BOND BREAKER. WHERE THE PERIMETER FLASHING TO WALL/FLOOR SURFACES THEY SHOULD BE CONTINUOUSLY SEALED (USUALLY WITH BOND BREAKER), HAVING THE VERTICAL LEG A MINIMUM OF 25MM ABOVE THE FINISHED FLOOR LEVEL (EXCEPT DOORWAYS) AND HORIZONTAL LEG A MINIMUM WIDTH OF 50MM. A WATER STOP WITH A VERTICAL LEG FINISHING FLUSH WITH THE FINISHED FLOOR LEVEL IS TO BE INSTALLED AT FLOOR LEVEL OPENINGS. PROTECTING WATER MIGRATING TO NON-WET AREAS.



**RECESSED SHOWER DETAIL**

**TERMITES**  
This land is **designated** in a termite zone. Termite management system is **required** in accordance with AS3660.1

**BUSHFIRE**  
This land is **located** within a Bushfire Prone Zone.  
**BAL 12.5**

**ENERGY RATING**  
To achieve minimum Energy Rating Scheme the dwelling will be incorporated with:  
**CLASS A - RECYCLED WATER**

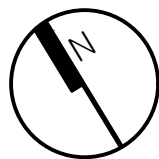
**PLANFORM**  
BUILDING DESIGN

**DRAWING TITLE**  
**Opes BUILDING SOLUTIONS**  
DETAILS  
THIS DOCUMENT IS THE SUBJECT OF -  
BUILDING PERMIT NUMBER: **985415612/986745168824**  
ISSUED DATE: **25/01/2024**  
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PROJECT:  
**PROPOSED DWELLING**  
AT:  
**LOT 417(NO.59) SPAFIELD ROAD,  
BEVERIDGE, VIC, 3753**  
FOR:  
**FUSION ENGINEERING**

DRAWN: **JT-JW**  
DATE: **10/03/2024**  
SCALE: **1:100 (A3)**  
JOB NO: **10102025**  
STATUS: **WORKING DRAWINGS**  
PG NO: **09**

REV	DATE	AMENDMENT
A	13.03	DA RFI
B	20.03	BUILDING PERMIT



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58 / 2 MURDOCH ROAD SOUTH MORANG  
SOUTH MORANG CORPORATE CENTRE



POWER LEGEND			
	SINGLE GPO – 300mm		DOUBLE GPO – 300mm
	SINGLE GPO – 1100mm		DOUBLE GPO – 1100mm
	SINGLE GPO – 1350mm		TELEVISION POINT
	WEATHERPROOF GPO – EXTERNAL		DATA POINT
	SINGLE GPO – D/WASHER @ 300H		SMOKE DETECTOR
	SINGLE GPO – FOR M/WAVE @ 750H		METER BOX
	SINGLE GPO – FOR SECURITY SYS.		TELEPHONE POINT

LIGHTING LEGEND			
	40w CEILING LIGHT & BATTEN HOLDER		JUNCTION BOX
	8w LED DOWNLIGHT		CEILING FAN
	OYSTER LIGHT		CEILING FAN WITH LIGHT
	EXTERNAL LIGHT POINT		PARA FLOOD LIGHT – SINGLE
	HEATER/FAN & LIGHT – 2 GLOBE		PARA FLOOD LIGHT – DOUBLE
	HEATER/FAN & LIGHT – 4 GLOBE		EXTERNAL SENSOR LIGHT
	PENDENT LIGHT		600 FLUORO – SINGLE
			600 FLUORO – DOUBLE

HEATING LEGEND			
	CEILING HEATING DUCT (APPROX LOCATION)		1200 FLUORO – SINGLE
	HEATING UNIT WITH LIGHT & GPO IN CEILING		1200 FLUORO – DOUBLE
	THERMOSTAT		WALL LIGHT BATTEN HOLDER
	RETURN AIR		DIMMER LIGHT SWITCH
	CEILING COOLING DUCT (APPROX LOCATION)		LIGHT TIMER
			CEILING EXHAUST FAN
			LIGHT SWITCH LOCATION (approx)

DUCTED VACUUM	
	DUCTED VACUUM UNIT
	DUCTED VACUUM POINT (APPROX)

INTERCOM	
	COLOR INTERCOM MONITOR
	DOOR BELL POINT LINKED WITH INTERCOM

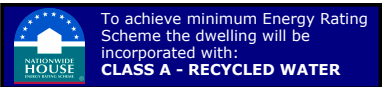
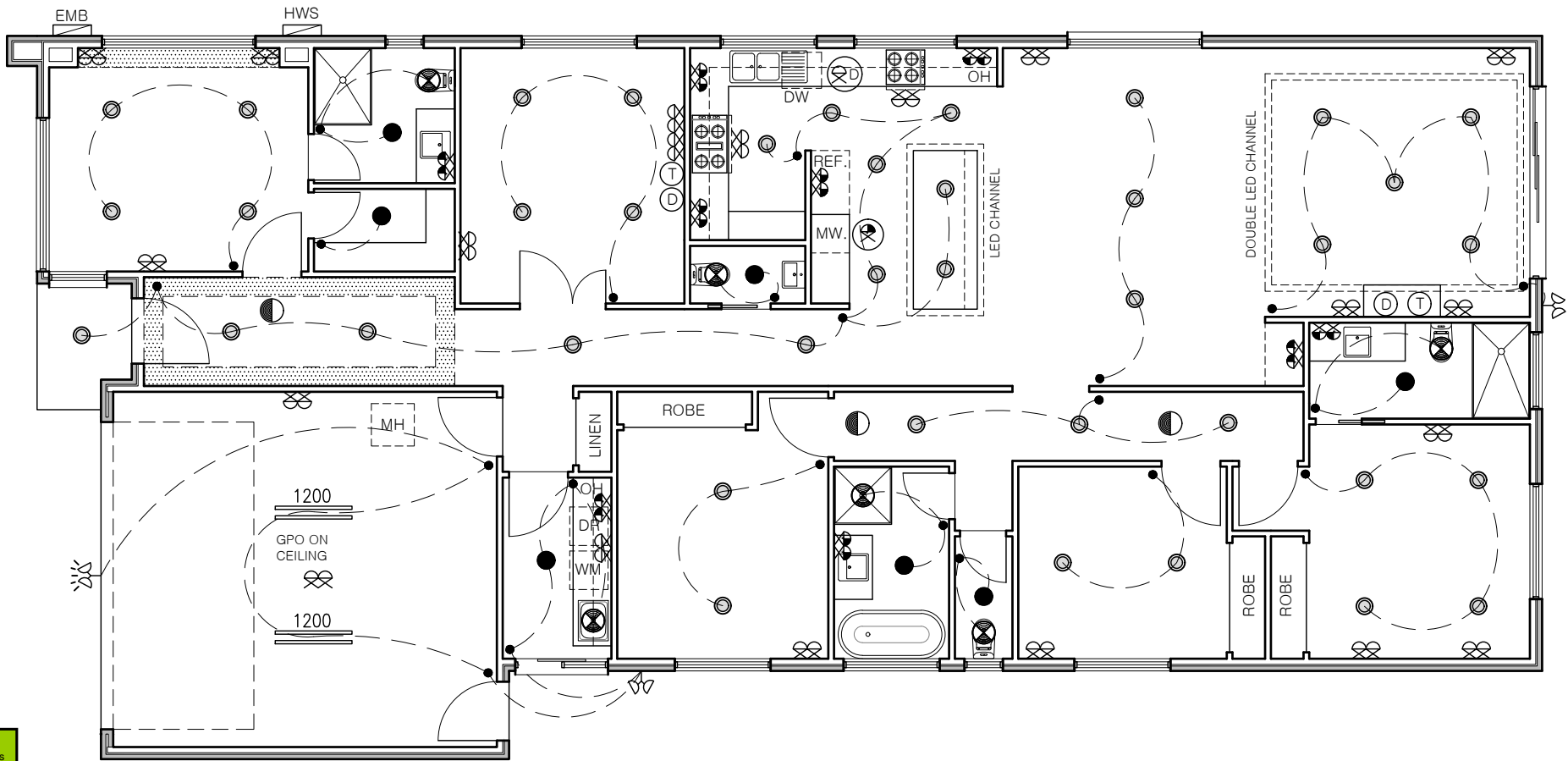
SA DENOTES LOCATIONS OF SMOKE ALARMS TO BE PROVIDED AND INSTALLED IN ACCORDANCE WITH A.S. 3786-1993 & UNLESS INSTALLED IN AN EXISTING PART OF A CLASS 1, 2 OR 3 BUILDING OR A CLASS 4 PART OF A BUILDING, THE SMOKE ALARM SHALL BE HARD WIRED WITH BATTERY BACKUP.

EF DENOTES: CEILING EXHAUST FAN PROVIDE A LIGHT AND AN EXHAUST FAN WHERE NATURAL LIGHTING AND VENTILATION IS NOT PROVIDED WHERE REQUIRED BY LOCAL AUTHORITY, DUCT THE EXHAUST TO THE OUTSIDE.

ELECTRICAL NOTE  
ALL SYMBOLS AND SYMBOL LOCATIONS ARE INDICATIVE ONLY AND TO BE USED AS A GUIDE ONLY.  
SYMBOLS AND LOCATIONS ARE NOT DRAWN TO SCALE.

- NOTES: PROVIDE LIGHT & POWER FOR HEATER UNIT WITHIN ROOF SPACE NEAR ROOF ACCESS. PROVIDE POWER POINT WITHIN ROOF SPACE FOR COOLING UNIT. ALL EXTERNAL FITTINGS TO BE WATERPROOF

ELECTRICAL ANALYSIS TABLE					
	AREA	WATTS PER LIGHT POINT	NO. LIGHTS USED	TOTAL WATTS USED	TOTAL WATTAGE PER SQM
GROUND FLOOR	199.66	8 & 40	45	584	2.92
GARAGE	35.79	40	2	80	2.24
PORCH	2.69	8	1	8	2.97
LIGHTING NOT TO EXCEED 5 WATTS PER SQUARE METER FOR LIVING AREAS IN ACCORDANCE WITH NCC 2022.					
LIGHTING NOT TO EXCEED 3 WATTS PER SQUARE METER FOR GARAGE IN ACCORDANCE WITH NCC 2022.					



PLANFORM  
BUILDING DESIGN

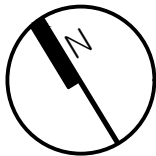
DRAWING TITLE  
**ELECTRICAL PLAN**

THIS DOCUMENT IS THE SUBJECT OF:  
BUILDING PERMIT NUMBER: **PS-11 58127/8667265169824**  
ISSUED DATE: **26/03/2025**  
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PROJECT:  
PROPOSED DWELLING  
AT:  
LOT 417(NO.59) SPAFIELD ROAD,  
BEVERIDGE, VIC, 3753  
FOR:  
FUSION ENGINEERING

DRAWN: JT-JW  
DATE: 10/03/2024  
SCALE: 1:100 (A3)  
JOB NO: 10102025  
STATUS: WORKING DRAWINGS  
PG NO: 10

REV	DATE	AMENDMENT
A	13.03	DA RFI
B	20.03	BUILDING PERMIT



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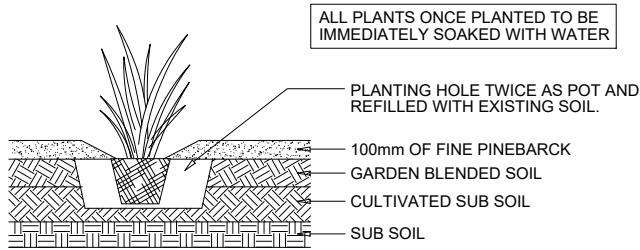
5B / 2 MURDOCH ROAD SOUTH MORANG  
SOUTH MORANG CORPORATE CENTRE



PROPOSED PLANT LIST
TREE 1: WILLOW MYRTLE minimum mature height of 4m
PLANTS TO GARDEN BEDS:
-SMOOTH RICE FLOWER -AUSTRAL INDIGO -HOP GOODENIA -EUTAXIA
TURF/GRASS: Buffalo Grass

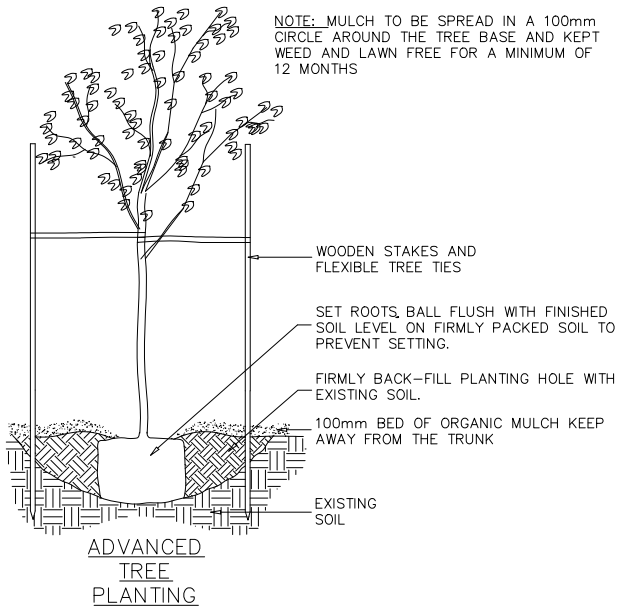
DEVELOPER NOTES:

- LANDSCAPING MUST BE FINISHED WITHIN 12 MONTHS OF THE ISSUE OF THE OCCUPANCY PERMIT.



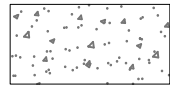
NOTE: IN HEAVY CLAY SOILS APPLY GYPSUM AT A RATE OF 2kg PER SQUARE METER. BREAK UP THE SOIL BELOW THE PLANTING HOLE, APPLY HALF A BUCKET OF WATER IMMEDIATELY AFTER PLANTING.

### PLANTING SPECIFICATION

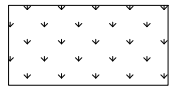


## LEGEND:

CONCRETE



SEEDED TURF

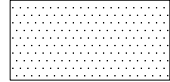


MULCHED GARDEN BED WITH PLANTS

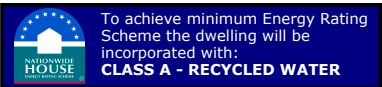
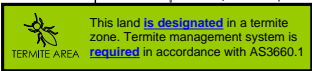
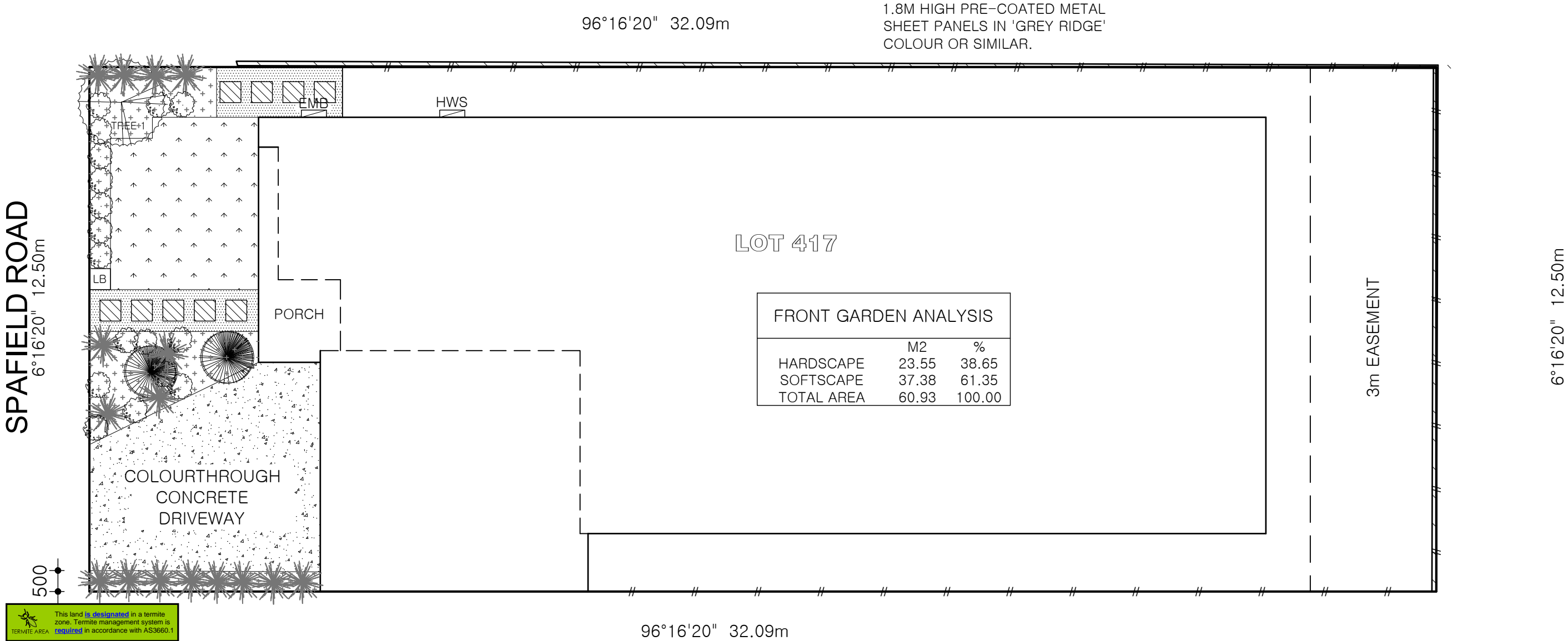
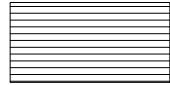


PAVERS

COMPACTED STONES



DECKING



DRAWING TITLE

# LANDSCAPE PLAN

THIS DOCUMENT IS THE SUBJECT OF -

BUILDING PERMIT NUMBER 10102025

ISSUED DATE 10/03/2024

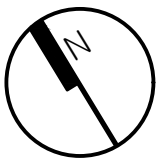
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PROJECT:  
PROPOSED DWELLING  
AT:  
LOT 417(NO.59) SPAFIELD ROAD,  
BEVERIDGE, VIC, 3753  
FOR:  
FUSION ENGINEERING

DRAWN: JT-JW  
DATE: 10/03/2024  
SCALE: 1:100 (A3)  
JOB NO: 10102025  
STATUS: WORKING DRAWINGS  
PG NO: 11

REV	DATE	AMENDMENT
A	13.03	DA RFI
B	20.03	BUILDING PERMIT



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