

SHEET LIST				
SHEET NUMBER	SHEET NAME	REVISION	CURRENT STATUS	CURRENT REVISION DATE
A0-000				
A0-001	COVER	A	BUILDING CONSENT	11/02/2026
A0-002	DRAWING CONVENTIONS	A	BUILDING CONSENT	11/02/2026
A0-003	EXISTING SITE PLAN	A	BUILDING CONSENT	11/02/2026
A0-004	SITE PLAN	A	BUILDING CONSENT	11/02/2026
A1-000				
A1-001	GENERAL FLOOR PLANS	A	BUILDING CONSENT	11/02/2026
A1-002	FLOOR PLAN LG	A	BUILDING CONSENT	11/02/2026
A1-003	FLOOR PLAN L1	A	BUILDING CONSENT	11/02/2026
A1-004	FLOOR PLAN L2	A	BUILDING CONSENT	11/02/2026
A1-005	SLAB PLAN & PLUMBING LAYOUT LG	A	BUILDING CONSENT	11/02/2026
A1-006	SLAB PLAN & PLUMBING LAYOUT L1	A	BUILDING CONSENT	11/02/2026
A1-007	PLUMBING LAYOUT L2	A	BUILDING CONSENT	11/02/2026
A1-008	WALL TYPES & SETOUT PLAN LG	A	BUILDING CONSENT	11/02/2026
A1-009	WALL TYPES & SETOUT PLAN L1	A	BUILDING CONSENT	11/02/2026
A1-010	WALL TYPES & SETOUT PLAN L2	A	BUILDING CONSENT	11/02/2026
A1-011	ROOF PLAN	A	BUILDING CONSENT	11/02/2026
A1-012	REFLECTED CEILING PLAN LG	A	BUILDING CONSENT	11/02/2026
A1-013	REFLECTED CEILING PLAN L1	A	BUILDING CONSENT	11/02/2026
A1-014	REFLECTED CEILING PLAN L2	A	BUILDING CONSENT	11/02/2026
A2-000				
A2-001	SECTIONS	A	BUILDING CONSENT	11/02/2026
A2-002	SECTIONS	A	BUILDING CONSENT	11/02/2026
A3-000				
A3-001	ELEVATIONS	A	BUILDING CONSENT	11/02/2026
A4-000				
A4-001	INTERIOR STAIRS	A	BUILDING CONSENT	11/02/2026
A5-000				
A5-001	WINDOW & DOOR SCHEDULES	A	BUILDING CONSENT	11/02/2026
A5-002	EXTERIOR WINDOW ELEVATIONS	A	BUILDING CONSENT	11/02/2026
A5-100	H1 AREAS	A	BUILDING CONSENT	11/02/2026
A6-000				
A6-001	DETAILS - EXTERNAL ENVELOPE	A	BUILDING CONSENT	11/02/2026
A6-002	DETAILS - EXTERNAL ENVELOPE	A	BUILDING CONSENT	11/02/2026
A6-003	DETAILS - EXTERNAL ENVELOPE	A	BUILDING CONSENT	11/02/2026
A6-004	DETAILS - EXTERNAL ENVELOPE	A	BUILDING CONSENT	11/02/2026
A6-005	DETAILS - EXTERNAL ENVELOPE	A	BUILDING CONSENT	11/02/2026
A6-006	DETAILS - EXTERNAL ENVELOPE	A	BUILDING CONSENT	11/02/2026
A6-007	DETAILS - EXTERNAL ENVELOPE	A	BUILDING CONSENT	11/02/2026
A6-008	DETAILS - SHOWERS	A	BUILDING CONSENT	11/02/2026
A6-009	DETAILS - TYP. PENETRATION	A	BUILDING CONSENT	11/02/2026

MAHANA

30 DE LUEN AVE, TINDALLS BEACH

BUILDING CONSENT  
11/02/2026 2:19:52 pm



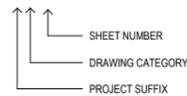
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**DRAWING CATEGORIES:**

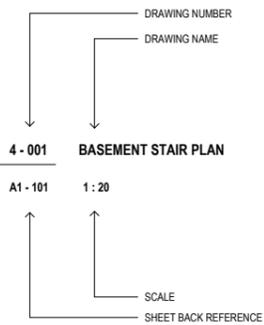
- 0 - SITE
- 1 - PLANS
- 2 - SECTIONS
- 3 - ELEVATIONS
- 4 - INTERIORS
- 5 - SCHEDULES
- 6 - DETAILS

SCALE AT A1 <b>1 : 100</b>	
DESIGNED DRAWN CHECKED	DATE
ISSUED FOR INFO CONSENT TENDER CONSTRUCTION	DATE
SHEET <b>A1-001</b>	REVISION
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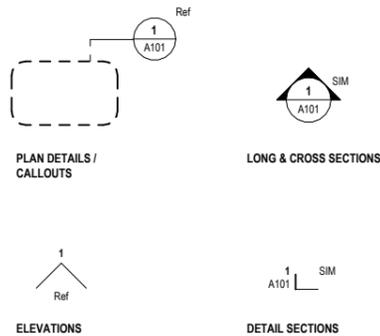
**A1-101**



**PLAN, SECTION, ELEVATION OR DETAIL TITLES**



**PLAN, SECTION, ELEVATION OR DETAIL REFERENCE SYMBOLS**



**DRAWING ANNOTATION**

**SPACE NUMBERING**



**DOORS AND WINDOWS**

REFER TO THE FLOOR PLANS & THE DOOR & WINDOW SCHEDULES FOR THE ROUGH OPENING SIZES, FINISHES, HARDWARE & FURNITURE.

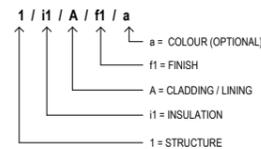
**DOOR NUMBERS**



**WINDOW NUMBERS**



**WALL FRAMING & LINING KEY**



READ IN CONJUNCTION WITH SPECIFIC LEGENDS WHICH ARE LOCATED ON EITHER THE FLOOR PLANS OR ON A SEPARATE KEYNOTES SHEET

**FLOOR FINISHES SYMBOL**

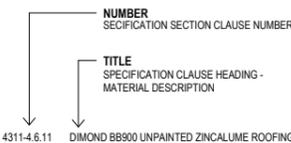


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**FIRE RATING KEY**

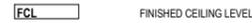


**KEYNOTES**

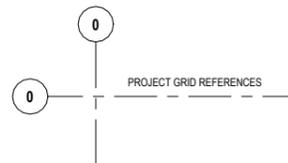


**EXPRESSION OF LEVELS**

LEVELS SHOWN ARE IN TERMS OF CITY DATUM (MEAN SEA LEVEL = 0) LEVELS AS PER AS 1100.301-1985



**GRID REFERENCES**



**FILLED REGIONS**

- ALUMINIUM
- BASECOURSE
- BRICKWORK
- CARPET
- CONCRETE BLOCK
- CONCRETE (INSITU)
- CONCRETE (PRE-CAST)
- EARTH
- FIBRE CEMENT
- MDF
- MEMBRANE
- PLASTERBOARD
- PLYWOOD
- POLYSTYRENE
- SEALANT
- STEEL
- TIMBER DRESSED

**TEXT TYPES**

- GENERAL NOTES
- HEADER TEXT
- LARGE HEADER TEXT

KEYNOTE VALUE	KEYNOTE TEXT
3102	CONCRETE WORK - REFER STRUCTURAL ENGINEER
3114E 4.1	100mm EXPOL SLABX200
3320	CONCRETE MASONRY - REFER STRUCTURAL ENGINEER
3322	ICF INSULATING BLOCKWORK - REFER STRUCTURAL ENGINEER
3410	STRUCTURAL STEEL - REFER STRUCTURAL ENGINEER
3813	ENGINEERED WOOD PRODUCTS - REFER STRUCTURAL ENGINEER
3821 4.1	FLOOR FRAMING - RADIATA PINE
3821 4.2	EXTERIOR WALL FRAMING - RADIATA PINE
3821 4.3	ROOF FRAMING - RADIATA PINE
3821 4.4	INTERIOR WALL FRAMING - RADIATA PINE
3821 4.5	EXTERIOR EXPOSED TIMBER
4131M 4.1	MAPEI MAPELASTIC SMART WATERPROOFING
4131N 4.2	NURAPLY 3PTM TANKING SYSTEM - UNDERSLAB AND FOOTINGS
4131N 4.3	NURAPLY 3PT -SA TANKING SYSTEM - UNDERGROUND WALLS
4161T 4.1	DPC - THERMAKRAFT SUPERCOURSE 500
4161T 4.2	DPM - THERMAKRAFT THERMATHENE ORANGE
4161T 4.3	WALL UNDERLAY - THERMAKRAFT COVERTEK 403
4171GR 4.2	GIB WEATHERLINE RAB BRACING SYSTEM- REFER STRUCTURAL ENG
4171GR 4.3	GIB WEATHERLINE RAB 2-WAY FIRE RATED SYSTEM GWTL 30 (10mm FYRELINE INT, 10mm WEATHERLINE EXT)
4171GR 4.4	GIB WEATHERLINE -FIRE RATED SOFFIT SYSTEM GIMUC 30 (13mm WEATHERLINE)
4221HV	HERMPAC VERTICAL WEATHERBOARD CLADDING SYSTEM
4221HV 4.3	HERMPAC - VERTICAL SHPLAP - FIRE RATED
4221HV 4.9	VERTIBAT V8/9 WRC CAVITY BATTENS
4221HV 4.10	VERTIBAT V8/9 WRC CAVITY BATTENS - FIRE RATED
4221HV 4.11	HERMPAC CAVITY CLOSER
4224	TIMBER EXTERIOR TRIM
4231HA	JAMES HARDIE AXON PANEL CLADDING
4231HA 4.1	TIMBER CAVITY BATTENS
4231HA 4.2	JAMES HARDIE AXON PANELS - SHEET CLADDING PANELS
4238JH 4.1	6mm VILLABOARD SOFFIT LINING
4261	BRICK VENEER CLADDING
4261 4.7	CLAY BRICK SLIPS
4261 4.10	WALL TIES
4337E 4.1	17mm ECOPLY STRUCTURAL ROOFING
4337E 4.2	21mm ECOPLY STRUCTURAL DECKING
4337E 4.3	12mm ECOPLY SUBSTRATE
4381NJ	NURAJACK DECK SUPPORT SYSTEM
4381NJ 4.1	NURAJACK DECK PEDESTAL SUPPORT SYSTEM FOR TILES / PAVERS / NATURAL STONE
4381NJ 4.2	NURAJACK DECK SUPPORT SYSTEMS FOR TIMBER DECKING
4381NJ 4.3	TILES / PAVERS / STONE
4383	TIMBER DECKING
4383 4.1	EXTERIOR HARDWOOD DECKING
4421N 4.1	NURAPLY 3PM TWO LAYER SYSTEM ON PLYWOOD
4421N 4.3	NURATHERM INSULATED ROOF SYSTEM WITH 100mm PIR ON PLYWOOD
4521PT 4.4	ALTUS SOUTHERN41 THERMAL SYSTEM
4553PD	PARKWOOD DURAMAX EXTERIOR DOOR
4554VS 4.2	VELUX VCS INTEGRA LOW PITCH SKYLIGHT - MOTORISED OPENING, SOLAR
4555 4.1	GARAGE DOOR - SECTIONAL OVERHEAD DOOR
4610MR	METRO PERFORMANCE GLASS - RESIDENTIAL GLAZING
4610MR 4.3	METRO PERFORMANCE GLASS - GLASS BALUSTRADE
4610MR 4.4	METRO PERFORMANCE GLASS - FRAMELESS SHOWER SCREENS AND DOORS
4711AG 4.1	GREENSTUF THERMAL WALL INSULATION
4711AG 4.2	GREENSTUF THERMAL MIDFLOOR CAVITY INSULATION
4721AG 4.1	GREENSTUF ACOUSTIC WALL INSULATION
4721AG 4.2	GREENSTUF ACOUSTIC WALL INSULATION -IT WALLS
4821	FLASHINGS
4851	EXTERIOR HANDRAILS & TIMBER BALUSTRADES
4851 4.1	STEEL BALUSTRADE & HANDRAIL
5111H 4.1	9mm JH VILLABOARD LINING
5113G 4.1	10mm GIB STANDARD SYSTEMS WALLS
5113G 4.2	10mm GIB WATER RESISTANT SYSTEMS WALLS
5113G 4.3	13mm GIB STANDARD SYSTEMS CEILING
5151	INTERNAL TRIM
5171G 4.1	GIB NOISE CONTROL SYSTEM GBTLA 30A (DOUBLE TIMBER FRAMING, 2 X 10mm STANDARD BOTH SIDES)
5171G 4.3	GIB FIRE RATED CEILING SYSTEM GBUC30 (16mm FYRELINE)
5175KP 4.2	KINGSPAN KOOLTHERM INSULATED PLASTERBOARD FINISH
5313GS	GIB RONDO METAL CEILING BATTEN SYSTEMS FOR GIB PLASTERBOARDS
5433E	ECOPLY FLOORING
5571 4.1	LAMINATED PLYWOOD STAIRS
5574	INTERIOR HANDRAILS & TIMBER BALUSTRADES
5574 4.1	TIMBER HANDRAIL
6211AW	ARDEX WALL TILING
6211AW 4.1	TILES
6211AW 4.3	ARDEX INTERNAL WALL TILING SYSTEM OVER FIBRE CEMENT SHEET
6211AW 4.4	ARDEX INTERNAL WET AREA WALL WATERPROOFING
6221A	ARDEX FLOOR TILING SOLUTIONS
6221A 4.1	TILES
6221A 4.5	ARDEX WATERPROOFING
6412FM	FORBO MARMOLEUM FLOORING
6511	CARPETING
6711R	RESENE PAINTING EXTERIOR
6721R	RESENE PAINTING INTERIOR
673MD 4.1	DRYDOL WOOD OIL - EXTERIOR TIMBER COATING
6743FB	ZONE FIREZONE VANGUARD TIMBER FIRE TREATMENT
6745R	RESENE PROTECTIVE COATINGS - REFER STRUCTURAL ENG
6812W	WARMUP WATERPROOFED SHOWER SYSTEM
7411M	METALCRAFT ROOFING RAINWATER SPOUTING SYSTEMS
7411M 4.1	METALCRAFT ROOFING GUTTER SYSTEMS
7411M 4.2	METALCRAFT METAL DOWNPIPES
7411M 4.3	MUNSON DOWNPIPE RINGS
7451AE 4.1	ALLPROOF DOMESTIC DRAINAGE CHANNEL
7566E 4.1	ESCEA INDOOR WOOD BURNER - TFS650 FREESTANDING (LEB)
7566E 4.2	ESCEA INDOOR WOOD FIRE FREESTANDING FLUE KIT
7566E 4.3	ESCEA INDOOR WOOD DESIGNER FLUE SHROUD

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**REVISIONS**

ISSUE	DATE	REVISION
A	11/02/2026	BUILDING CONSENT

**DRAWING TO BE PRINTED & READ IN COLOUR**

**Bossley Architects**

2/55 MACKELVIE STREET  
 AUCKLAND 1021, NEW ZEALAND  
 +64 9 361 2201  
 mail@bossleyarchitects.co.nz

CONSULTANTS  
 STRUCTURAL - ACH CONSULTING ENGINEERS  
 FIRE - ORIGIN FIRE CONSULTANTS

PROJECT  
**MAHANA**  
 30 DE LUEN AVE,  
 TINDALLS BEACH

DRAWING  
**DRAWING CONVENTIONS**

SCALE AT A1 As indicated	
SHEET <b>A0-002</b>	REVISION <b>A</b>
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**BUILDING CONSENT**

11/02/2026 2:20:00pm



**SITE NOTES**

**LEGAL DESCRIPTION:**  
 ADDRESS: 30 DE LUEN AVE, TINDALLS BEACH, AUCKLAND  
 LEGAL: LOT 82 DP 46129  
 ZONE: RESIDENTIAL - SINGLE HOUSE ZONE  
 SITE AREA: 869 m<sup>2</sup>

**ZONES:**  
 H1 CLIMATE ZONE: ZONE 1  
 EXPOSURE ZONE: ZONE D (HIGH RISK)  
 EARTHQUAKE ZONE: ZONE 1  
 WIND ZONE: HIGH

**PROPOSED SCOPE OF WORKS FOR CONSENT:**  
 NEW DWELLING AND ATTACHED MINOR DWELLING

**CONSTRUCTION SEQUENCE:**  
 1. CONSTRUCT MINOR DWELLING  
 2. DEMOLISH EXISTING LOCKWOOD DWELLING  
 3. CONSTRUCT MAIN DWELLING

**LEGEND**

IMPERMEABLE AREAS - BUILDING

IMPERMEABLE AREAS



LOCATION PLAN - NTS

1 EXISTING SITE PLAN  
1:100



BUILDING CONSENT

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**PROJECT**  
 MAHANA  
 30 DE LUEN AVE,  
 TINDALLS BEACH

**DRAWING**  
 EXISTING SITE PLAN

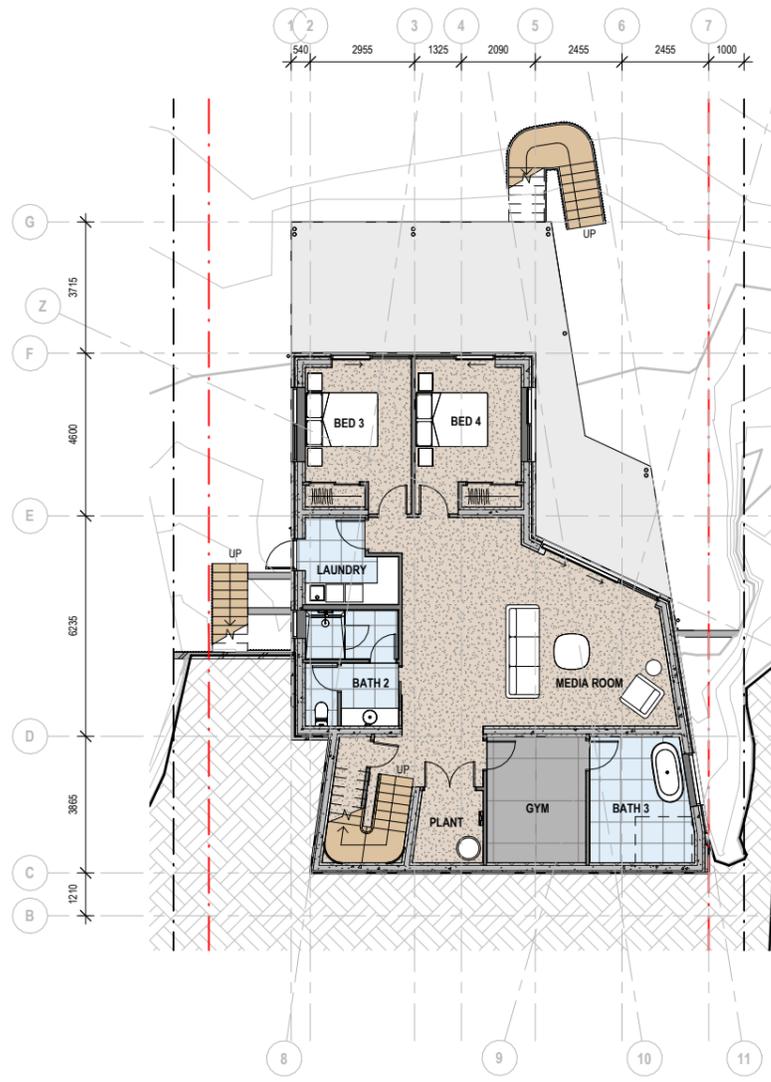
SCALE AT A1  
 As indicated

SHEET	REVISION
A0-003	A

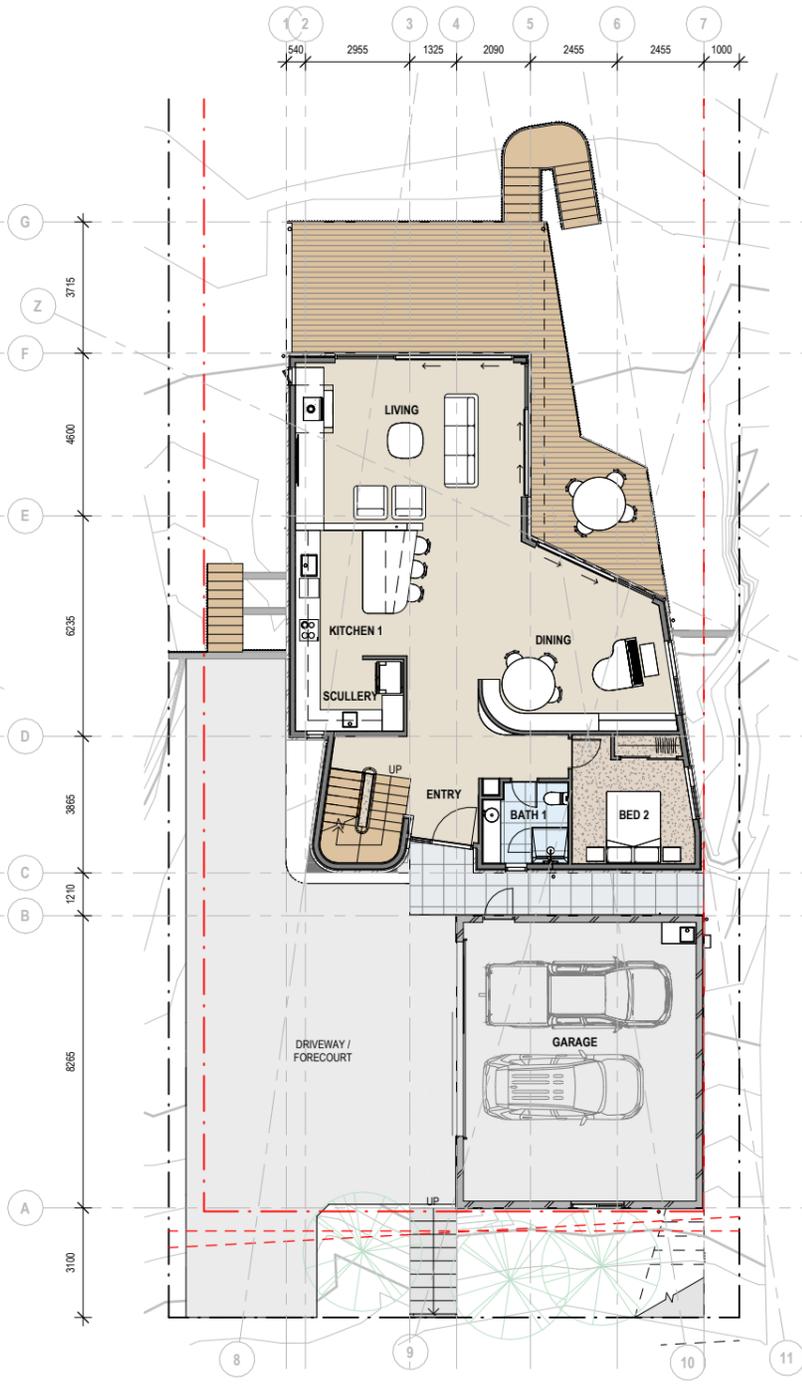
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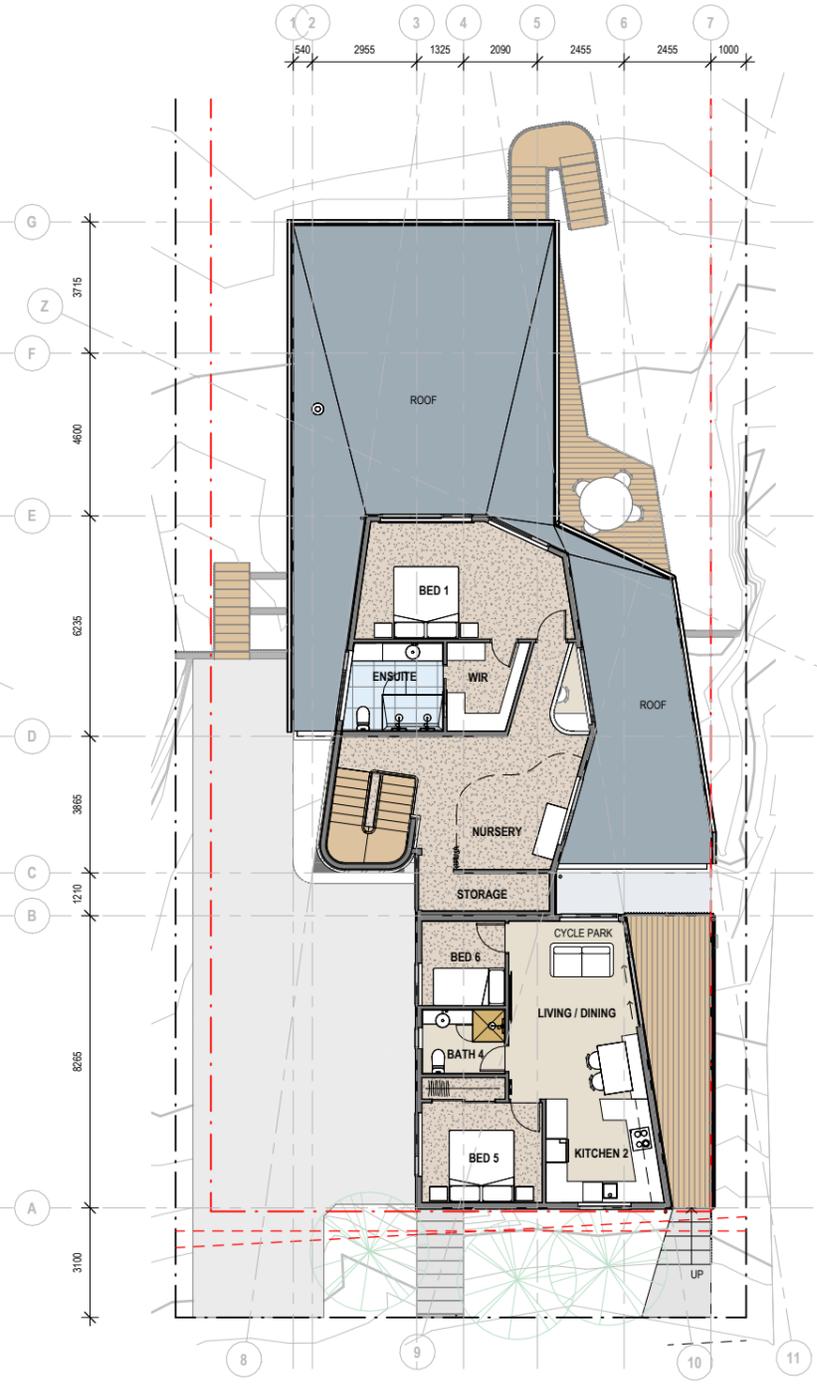




1 GA PLAN LG  
A2-001 1:100



2 GA PLAN L1  
A2-001 1:100



3 GA PLAN L2  
A2-001 1:100

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 MAHANA  
 30 DE LUEN AVE,  
 TINDALLS BEACH

**DRAWING**  
 GENERAL FLOOR PLANS

SCALE AT A1  
 1:100

SHEET  
**A1-001**

REVISION  
**A**

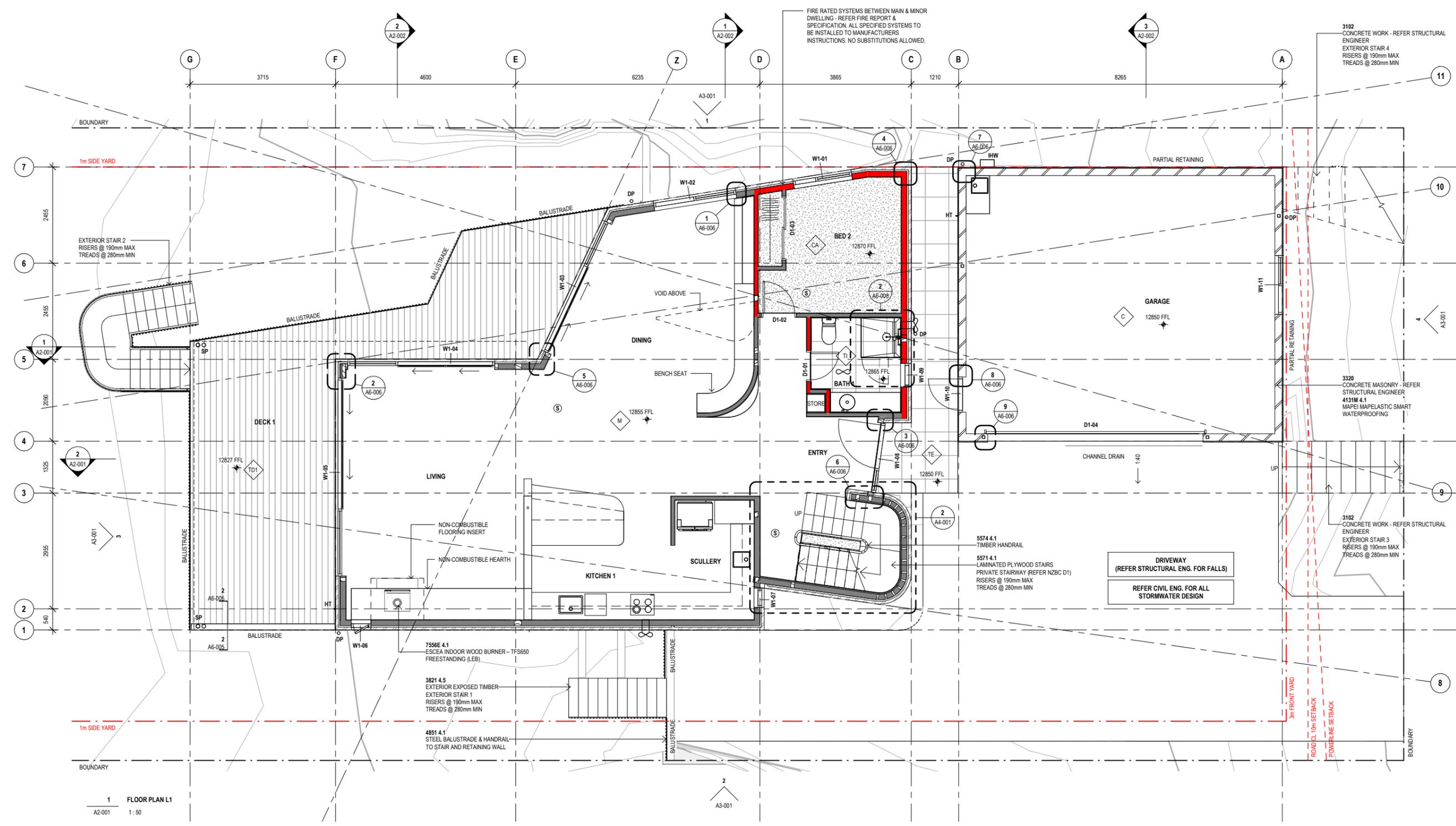
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**BUILDING CONSENT**

11/02/2028 2:20:11 pm





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**3102** - CONCRETE WORK - REFER STRUCTURAL ENGINEER  
EXTERIOR STAIR 4  
RISERS @ 190mm MAX  
TREADS @ 280mm MIN

**3320** - CONCRETE MASONRY - REFER STRUCTURAL ENGINEER  
**4131M 4.1** MAPEI MAPELASTIC SMART WATERPROOFING

**3102** - CONCRETE WORK - REFER STRUCTURAL ENGINEER  
EXTERIOR STAIR 3  
RISERS @ 190mm MAX  
TREADS @ 280mm MIN

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MAHANA  
30 DE LUEN AVE,  
TINDALLS BEACH

**DRAWING**  
FLOOR PLAN L1

SCALE AT A1  
1:50

**SHEET**  
A1-003

**REVISION**  
A

11/02/2028 2:20:18 pm  
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**WALL TYPES**

GRAPHIC	DESCRIPTION
	TIMBER FRAMED
	FIRE RATED TIMBER FRAMED, FRR 30/30/30
	CONCRETE MASONRY BLOCK
	INSULATED CONCRETE FORMWORK (ICF)

**NOTE:**

1. READ IN CONJUNCTION WITH FIRE REPORT AND STRUCTURAL ENGINEER'S DRAWINGS.
2. FOR WALL TYPE STRUCTURE, INSULATION, LININGS, FINISHES, ETC. REFER TO WALL TYPES PLANS

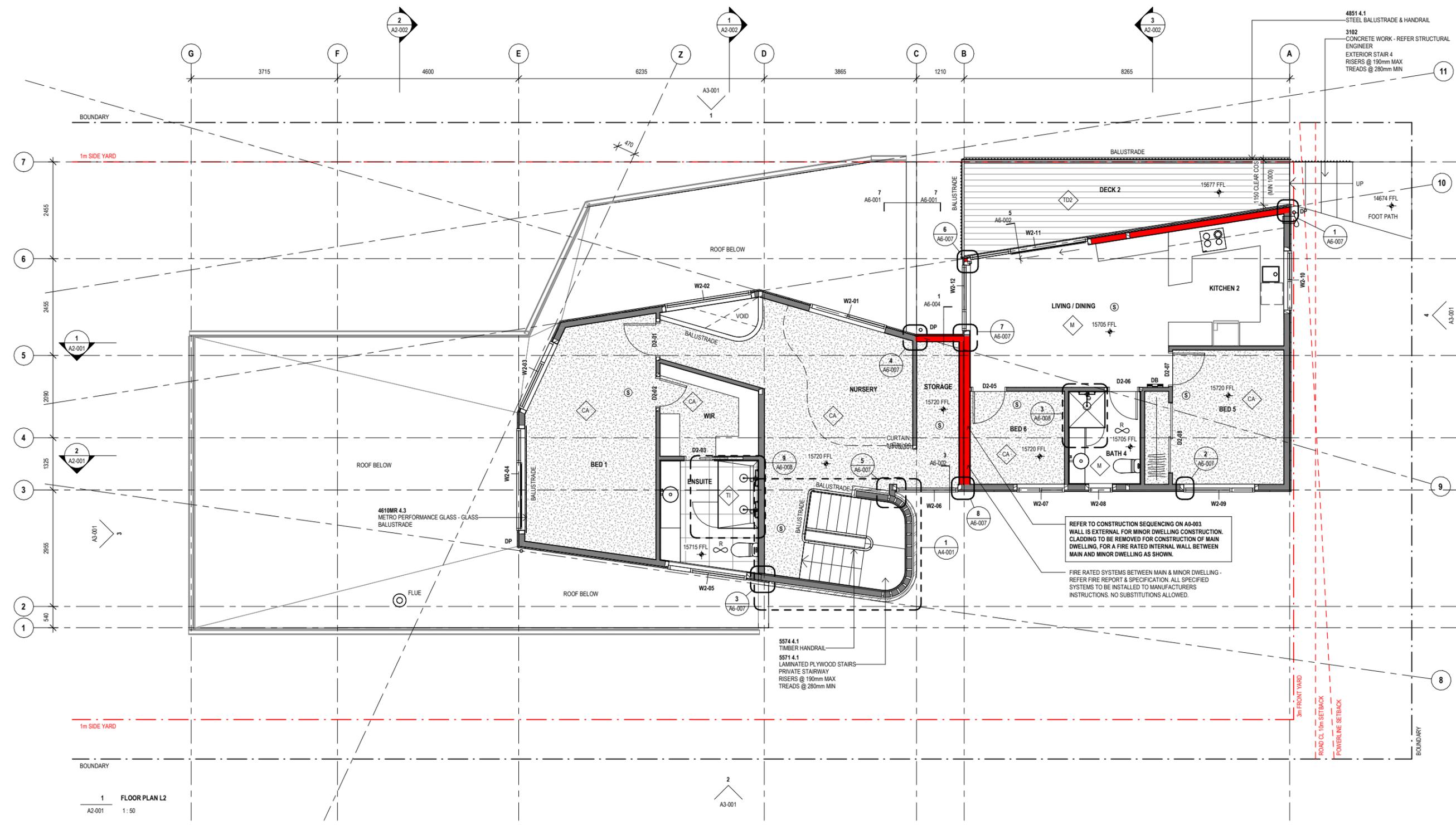
**FLOORING FINISHES**

	CONCRETE (SEALED WHERE INTERIOR)		HIGH IMPACT GYM MATTING TBC
	6511 CARPETING		4381NJ 4.1 NURAJACK DECK PEDESTAL SUPPORT SYSTEM FOR TILES / PAVERS / NATURAL STONE
	6221A ARDEK FLOOR TILING SOLUTIONS (ON WATERPROOFING IN WET AREAS TO COMPLY WITH NZBC E3AS1)		4383 TIMBER DECKING (ON TIMBER FRAMED STRUCTURE)
	6412FM FORBO MARMOLEUM FLOORING		4381NJ 4.2 NURAJACK DECK SUPPORT SYSTEMS FOR TIMBER DECKING 4383 TIMBER DECKING

**SERVICES & STRUCTURE**

GRAPHIC	DESCRIPTION
	DB DISTRIBUTION BOARD
	INTERCONNECTED SMOKE DETECTOR (TYPE 1 INSTALLED TO NZBC F7)
	WALL OR ROOF MECH. EXTRACT FANS - IN BATHROOMS MIN. FLOWRATE 50 L/s - IN KITCHEN MIN. FLOWRATE 100 L/s
	HWC HOT WATER CYLINDER
	IHW INSTANT HOT WATER UNIT
	HT HOSE TAP
	GT GULLY TRAP
	DP DOWN PIPES
	SP STEEL POSTS - REFER STRUCTURAL ENG.

**BUILDING CONSENT**



**NOTES**

- READ ALL NOTES IN CONJUNCTION WITH THE SPECIFICATION.
- READ IN CONJUNCTION WITH OTHER CONSULTANTS DRAWINGS.
- CONTRACTORS SHALL ONLY BUILD OFF DRAWINGS MARKED "CONSTRUCTION".
- CONTRACTOR SHALL ENSURE CURRENT ISSUE REVISIONS OF DRAWINGS ARE USED AND DISTRIBUTED TO APPROPRIATE SUBCONTRACTORS, SUPPLIERS, MANUFACTURERS ETC.
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- DRAWINGS SHOWING PARTICULAR PARTS OF THE CONTRACT WORKS TAKE PRECEDENCE OVER DRAWINGS FOR MORE GENERAL PURPOSES.

DO NOT SCALE FROM DRAWINGS. CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING ANY WORK.

**REVISIONS**

ISSUE	DATE	REVISION
A	11/02/2028	BUILDING CONSENT

**DRAWING TO BE PRINTED & READ IN COLOUR**

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**CONSULTANTS**  
STRUCTURAL - ACH CONSULTING ENGINEERS  
FIRE - ORIGIN FIRE CONSULTANTS

**PROJECT**  
MAHANA  
30 DE LUEN AVE,  
TINDALLS BEACH

**DRAWING**  
FLOOR PLAN L2

SCALE AT A1  
1:50

SHEET  
**A1-004**

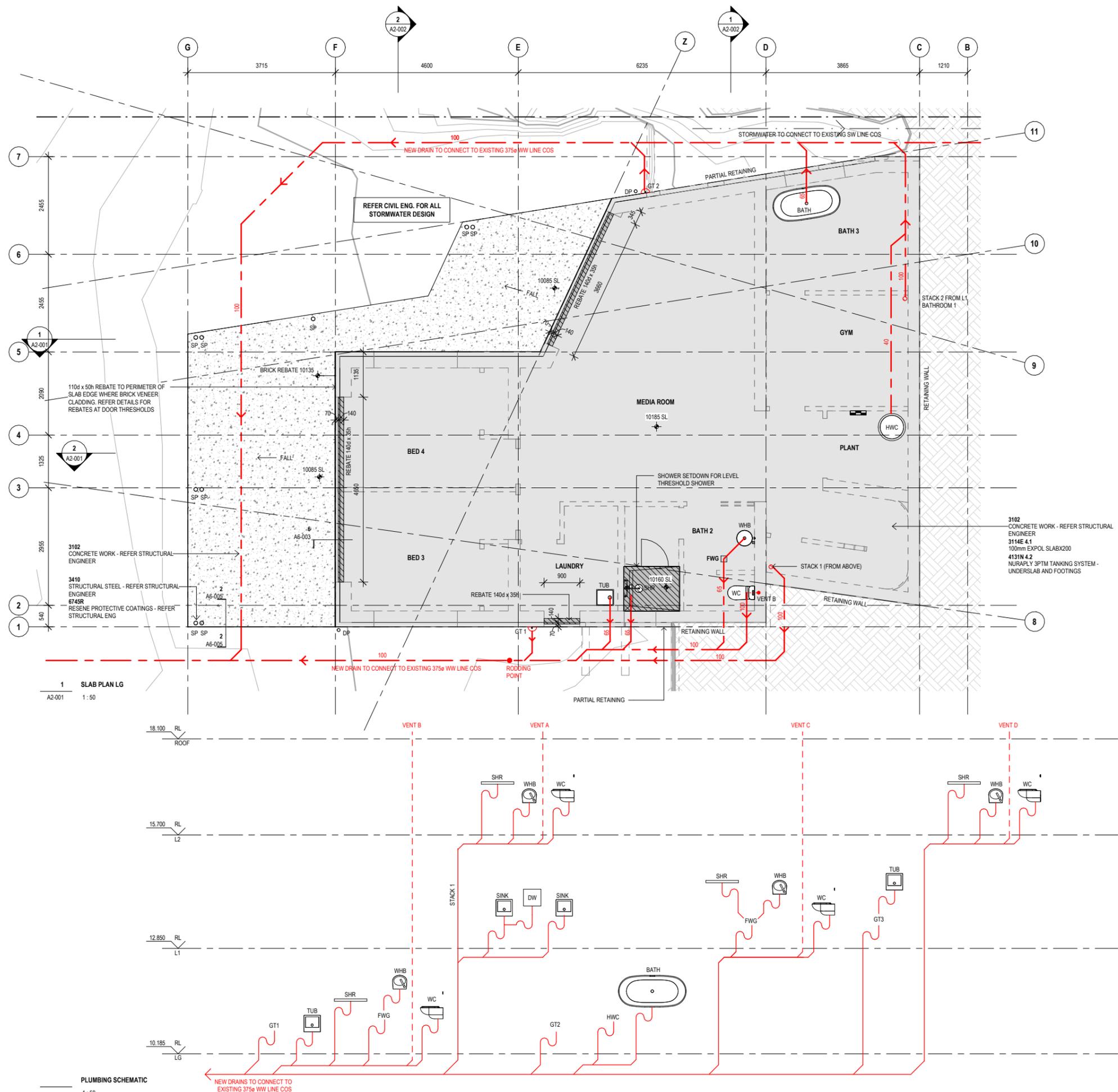
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**A**

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WALL TYPES		FLOORING FINISHES		SERVICES & STRUCTURE	
GRAPHIC	DESCRIPTION	GRAPHIC	DESCRIPTION	GRAPHIC	DESCRIPTION
	TIMBER FRAMED		CONCRETE (SEALED WHERE INTERIOR)		DISTRIBUTION BOARD
	FIRE RATED TIMBER FRAMED, FRR 30/30/30		6511 CARPETING		INTERCONNECTED SMOKE DETECTOR (TYPE 1 INSTALLED TO NZBC F7)
	CONCRETE MASONRY BLOCK		6221A ARDEK FLOOR TILING SOLUTIONS (ON WATERPROOFING IN WET AREAS TO COMPLY WITH NZBC E3(A1))		WALL OR ROOF MECH. EXTRACT FANS - IN BATHROOMS MIN. FLOWRATE 50 L/s - IN KITCHEN MIN. FLOWRATE 100 L/s
	INSULATED CONCRETE FORMWORK (ICF)		4383 TIMBER DECKING (ON TIMBER FRAMED STRUCTURE)		HOT WATER CYLINDER
<b>NOTE:</b>			HIGH IMPACT GYM MATTING TBC		INSTANT HOT WATER UNIT
1. READ IN CONJUNCTION WITH FIRE REPORT AND STRUCTURAL ENGINEER'S DRAWINGS.			4381N.J 4.1 NURAJACK DECK PEDESTAL SUPPORT SYSTEM FOR TILES / PAVERS / NATURAL STONE		HOSE TAP
2. FOR WALL TYPE STRUCTURE, INSULATION, LININGS, FINISHES, ETC. REFER TO WALL TYPES PLANS			4381N.J 4.2 NURAJACK DECK SUPPORT SYSTEMS FOR TIMBER DECKING		GULLY TRAP
			6412FM FORBO MARMOLEUM FLOORING		DOWN PIPES
			4383 TIMBER DECKING		STEEL POSTS - REFER STRUCTURAL ENG.

**BUILDING CONSENT**

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**LEGEND**

GRAPHIC	DESCRIPTION
[Pattern]	NEW TIMBER FRAMED FLOOR
[Pattern]	NEW CONCRETE FLOOR SLAB
[Pattern]	NEW EXTERNAL CONCRETE TERRACE SLAB ON GRADE
[Pattern]	REBATE/SETDOWNS TO FLOOR STRUCTURE, DIMENSIONS AS NOTED
[Pattern]	NEW TIMBER FRAMED DECK - REFER STRUCTURAL ENG
[Symbol]	WALLS
[Symbol]	STEEL POSTS

NOTES:  
 1. READ IN CONJUNCTION WITH STRUCTURAL ENGINEERS DRAWINGS  
 2. REFER TO CIVIL ENGINEER DESIGN FOR ALL STORMWATER DRAINAGE

**DRAINAGE LEGEND**

GRAPHIC	DESCRIPTION
[Line]	NEW SANITARY DRAINAGE, PIPE SIZES AS INDICATED
[Symbol]	DOWN PIPE
[Symbol]	GULLY TRAP
[Symbol]	FLOOR WASTE GULLY

**PLUMBING & DRAINAGE NOTES**

- ALL EXISTING DRAINAGE TO BE CHECKED AND CONFIRMED ON SITE.
- ALLOW TO TERMINATE AND CAP OFF DRAINAGE PIPES WHERE REDUNDANT IN PROPOSED LAYOUT
- ALL NEW SANITARY WASTE PIPES TO CONNECT TO EXISTING WASTE WATER DRAIN.
- NEW DPS TO BE CONNECTED TO STORMWATER DRAINAGE. REFER CIVIL ENGINEER DESIGN.
- ALLOW FOR NOVAFLO 110mm PERFORATED GROUND WATER DRAIN WITH FILTER SOCK FOR GROUND WATER DRAINAGE.
- ALL CHANNEL DRAINS AND NOVAFLO GROUND WATER DRAINS TO DRAIN INTO A SILT TRAP BEFORE CONNECTING TO STORMWATER SYSTEM. REFER CIVIL ENG.

**READ IN CONJUNCTION WITH SPECIFICATION**

- GENERAL SANITARY DRAINAGE NOTES**
1. ALL SANITARY WASTE DRAINS SHALL BE UPVC AS/NZS 1260 UNLESS STATED OTHERWISE
  2. VENTS SHALL BE INSTALLED TO NZBC REQUIREMENTS WHETHER SHOWN OR NOT
  3. ALL PIPE DIAMETERS SHOWN ARE INTERNAL DIMENSIONS
  4. ALL SHOWER WASTES SHALL BE EASY CLEAN TRAPS
  5. BEDDING AND BACKFILL TO SUIT REQUIREMENTS OF NZBC G13/AS2 FIGURE 7

**MINIMUM DISCHARGE PIPE SIZES:**  
(in/below slab)

WC	100dia	1:60
WASH HAND BASIN	65dia	1:40
SHOWER	65dia	1:40
SINK	65dia	1:40
FLOOR DRAIN	65dia	1:40
HWC TUNDISH	40dia	1:40
WASHING MACHINE	65dia	1:40

NOTE AS AN ALTERNATIVE TO VENTING FITTINGS TO GULLY TRAP OR TERMINAL VENT, AIR ADMITTANCE VALVES MAY BE INSTALLED TO FITTINGS

**VENT SIZES:**

TERMINAL VENTS	80dia
FIXTURE DISCHARGE VENT	40dia
INSPECTION OPENING	40dia

- GENERAL STORMWATER DRAINAGE NOTES**
1. ALL STORMWATER DRAINS SHALL BE UPVC AS/NZS UNLESS STATED OTHERWISE
  2. DRAINS SHALL BE INSTALLED TO NZBC REQUIREMENTS, E1 (SURFACE WATER), AND TO MINIMUM GRADIENTS, REFER TABLE 2, E1

- GENERAL WATER RETICULATION NOTES**
1. RUN ALL DOMESTIC HOT AND COLD WATER PIPES IN COPPER, PP, PEX PIPING SYSTEM
  2. INSULATE ALL HOT WATER PIPE RUNS REGARDLESS OF THE TYPE OF PIPE USED
  3. HOT AND COLD WATER INSTALLATION SHALL COMPLY IN FULL WITH NZBC AND ALL RELEVANT STANDARDS
  4. ALL PIPE DIAMETERS ARE INTERNAL DIMENSIONS
  5. NOTE DRAWINGS ARE SCHEMATIC ONLY
  6. ALLOW TO INSTALL MEDIUM HAZARD BACKFLOW PREVENTION DEVICES ON ALL FIXTURES REQUIRED TO HAVE THEM UNDER NZBC G12
  7. LIMIT WATER TEMPERATURE AT 55deg TEMPERING VALVE MUST BE SUPPLIED WHERE SANITARY FITTINGS ARE USED FOR PERSONAL HYGIENE
  8. MINIMUM PIPE SIZES TO BE 20dia TO ALL SINKS, SHOWERS AND TEMPERING VALVES, AND 15dia TO ALL WC AND BASINS. 10dia PIPES NOT TO BE USED ANYWHERE
  9. ALL FIRE RATED STRUCTURAL PENETRATIONS TO BE FIRE STOPPED.

**NOTES**  
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**PROJECT**  
 MAHANA  
 30 DE LUEN AVE,  
 TINDALLS BEACH

**DRAWING**  
 SLAB PLAN & PLUMBING LAYOUT LG

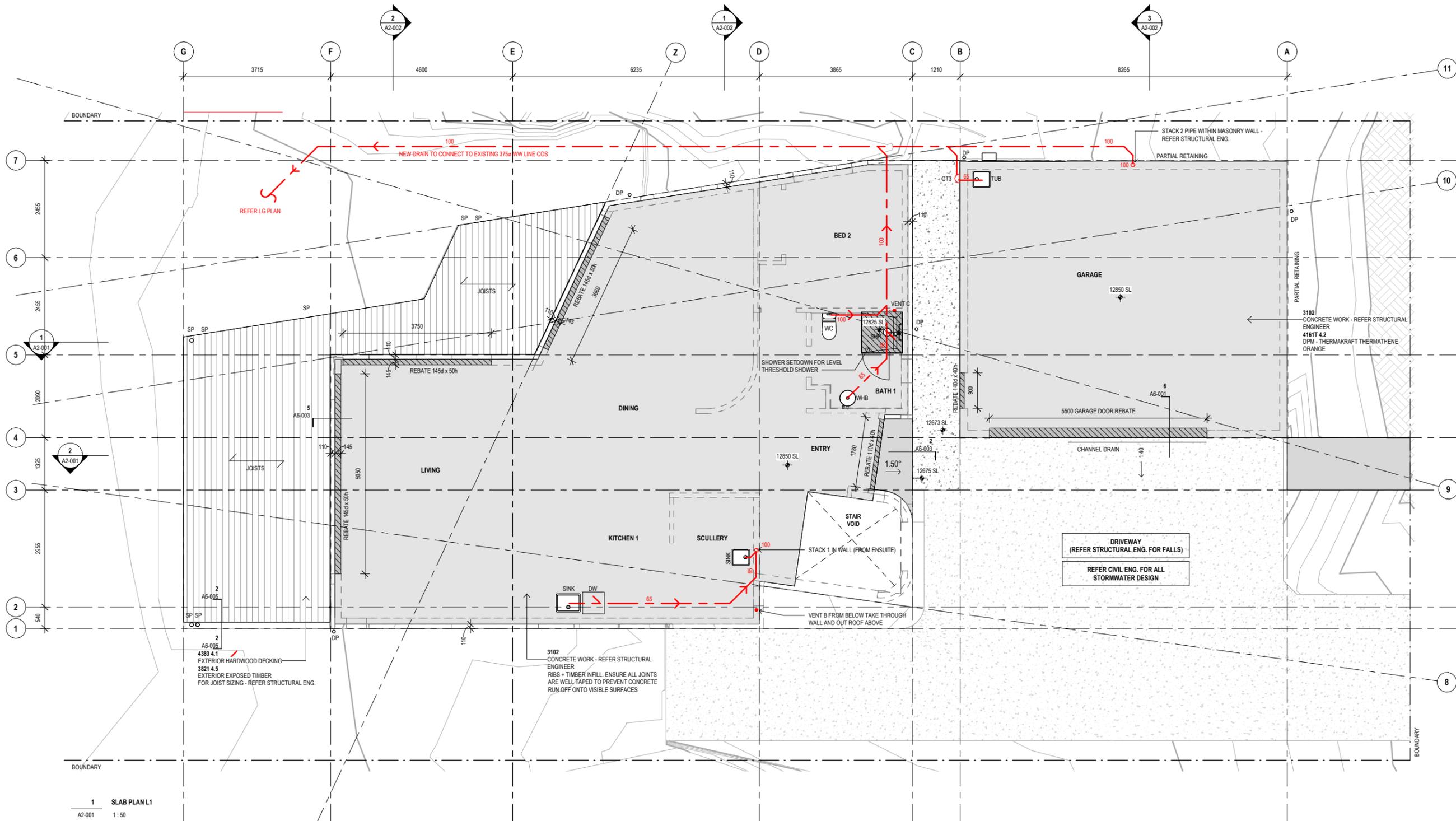
SCALE AT A1  
 1 : 50

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11/02/2028 2:22:25pm



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**DRAWING TO BE PRINTED & READ IN COLOUR**

**DRIVEWAY (REFER STRUCTURAL ENG. FOR FALLS)**  
**REFER CIVIL ENG. FOR ALL STORMWATER DESIGN**

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**CONSULTANTS**  
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**PROJECT**  
 MAHANA  
 30 DE LUEN AVE,  
 TINDALLS BEACH

**DRAWING**  
 SLAB PLAN & PLUMBING LAYOUT L1

SCALE AT A1  
 1 : 50

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**A1-006**

REVISION  
**A**

11/02/2026 2:22:27 pm

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**BUILDING CONSENT**

**LEGEND**

GRAPHIC	DESCRIPTION
	NEW TIMBER FRAMED FLOOR
	NEW CONCRETE FLOOR SLAB
	NEW EXTERNAL CONCRETE TERRACE SLAB ON GRADE
	REBATE/SETDOWNS TO FLOOR STRUCTURE. DIMENSIONS AS NOTED
	NEW TIMBER FRAMED DECK - REFER STRUCTURAL ENG
	WALLS
	STEEL POSTS

**NOTES:**  
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**DRAINAGE LEGEND**

GRAPHIC	DESCRIPTION
	NEW SANITARY DRAINAGE, PIPE SIZES AS INDICATED
	DOWN PIPE
	GULLY TRAP
	FLOOR WASTE GULLY

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**MINIMUM DISCHARGE PIPE SIZES:**  
 (in/below slab)

WC	100dia	1.60
WASH HAND BASIN	65dia	1.40
SHOWER	65dia	1.40
SINK	65dia	1.40
FLOOR DRAIN	65dia	1.40
HWC TUNDISH	40dia	1.40
WASHING MACHINE	65dia	1.40

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**GENERAL STORMWATER DRAINAGE NOTES**

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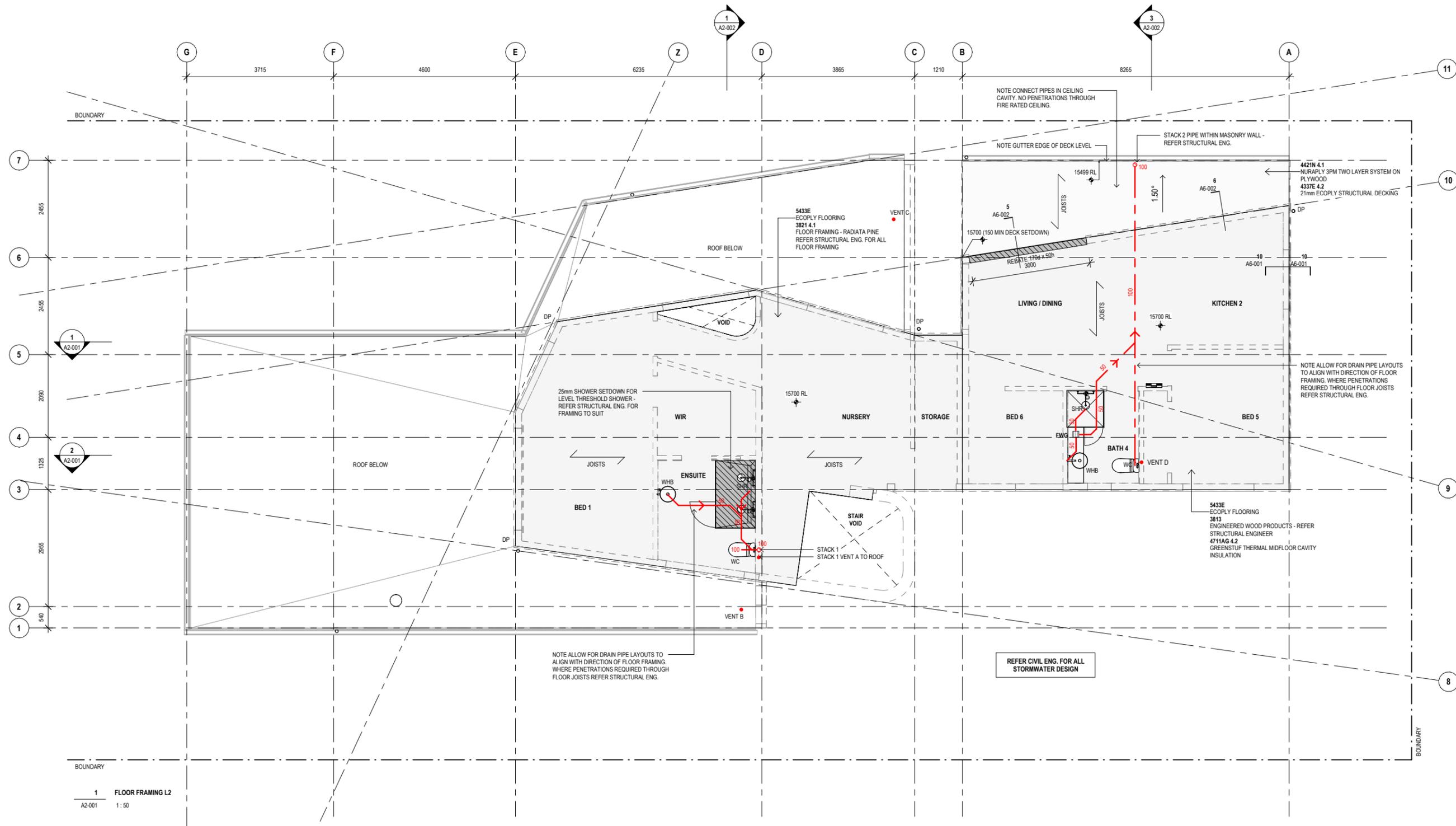
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**READ IN CONJUNCTION WITH SPECIFICATION**

**GENERAL SANITARY DRAINAGE NOTES**

- ALL SANITARY WASTE DRAINS SHALL BE UPVC AS/NZS 1260 UNLESS STATED OTHERWISE
- VENTS SHALL BE INSTALLED TO NZBC REQUIREMENTS WHETHER SHOWN OR NOT
- ALL PIPE DIAMETERS SHOWN ARE INTERNAL DIMENSIONS
- ALL SHOWER WASTES SHALL BE EASY CLEAN TRAPS
- BEDDING AND BACKFILL TO SUIT REQUIREMENTS OF NZBC G13/AS2 FIGURE 7



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**DRAWING**  
 PLUMBING LAYOUT L2

SCALE AT A1  
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SHEET  
**A1-007**

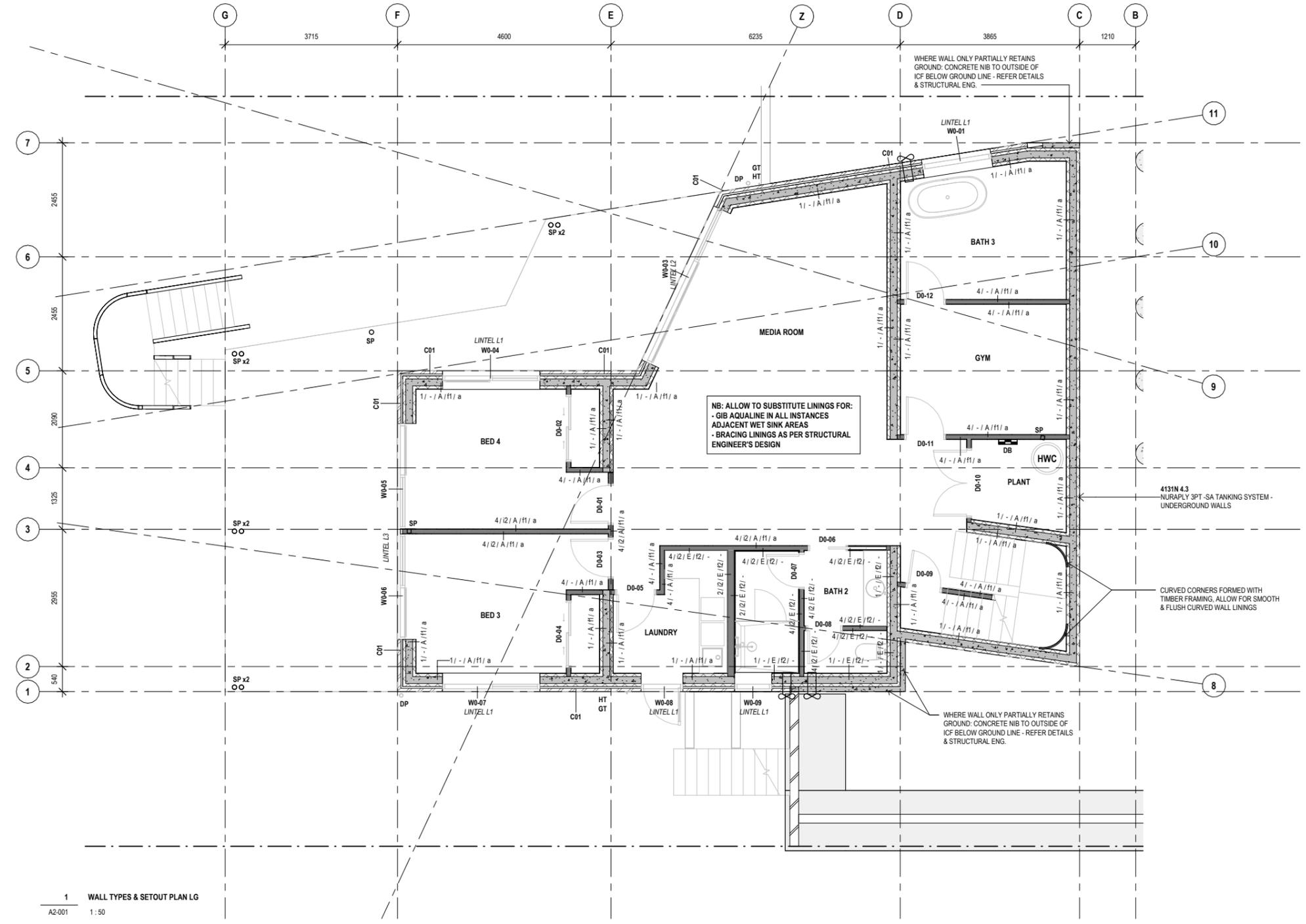
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LEGEND		DRAINAGE LEGEND		PLUMBING & DRAINAGE NOTES																						
GRAPHIC	DESCRIPTION	GRAPHIC	DESCRIPTION																							
	NEW TIMBER FRAMED FLOOR		NEW SANITARY DRAINAGE, PIPE SIZES AS INDICATED	<ul style="list-style-type: none"> <li>ALL EXISTING DRAINAGE TO BE CHECKED AND CONFIRMED ON SITE.</li> <li>ALLOW TO TERMINATE AND CAP OFF DRAINAGE PIPES WHERE REDUNDANT IN PROPOSED LAYOUT</li> <li>ALL NEW SANITARY WASTE PIPES TO CONNECT TO EXISTING WASTE WATER DRAIN</li> <li>NEW DPs TO BE CONNECTED TO STORMWATER DRAINAGE. REFER CIVIL ENGINEER DESIGN.</li> <li>ALLOW FOR NOVAFLO 110mm PERFORATED GROUND WATER DRAIN WITH FILTER SOCK FOR GROUND WATER DRAINAGE</li> <li>ALL CHANNEL DRAINS AND NOVAFLO GROUND WATER DRAINS TO DRAIN INTO A SILT TRAP BEFORE CONNECTING TO STORMWATER SYSTEM. REFER CIVIL ENG.</li> </ul>	<p><b>MINIMUM DISCHARGE PIPE SIZES:</b> (in/below slab)</p> <table border="1"> <tr><td>WC</td><td>100dia</td><td>1:60</td></tr> <tr><td>WASH HAND BASIN</td><td>65dia</td><td>1:40</td></tr> <tr><td>SHOWER</td><td>65dia</td><td>1:40</td></tr> <tr><td>SINK</td><td>65dia</td><td>1:40</td></tr> <tr><td>FLOOR DRAIN</td><td>65dia</td><td>1:40</td></tr> <tr><td>HWC TUNDISH</td><td>40dia</td><td>1:40</td></tr> <tr><td>WASHING MACHINE</td><td>65dia</td><td>1:40</td></tr> </table>	WC	100dia	1:60	WASH HAND BASIN	65dia	1:40	SHOWER	65dia	1:40	SINK	65dia	1:40	FLOOR DRAIN	65dia	1:40	HWC TUNDISH	40dia	1:40	WASHING MACHINE	65dia	1:40
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	NEW CONCRETE FLOOR SLAB		DOWN PIPE	<p><b>NOTE AS AN ALTERNATIVE TO VENTING FITTINGS TO GULLY TRAP OR TERMINAL VENT, AIR ADMITTANCE VALVES MAY BE INSTALLED TO FITTINGS</b></p>	<p><b>GENERAL STORMWATER DRAINAGE NOTES</b></p> <ol style="list-style-type: none"> <li>ALL STORMWATER DRAINS SHALL BE UPVC AS/NZS UNLESS STATED OTHERWISE</li> <li>DRAINS SHALL BE INSTALLED TO NZBC REQUIREMENTS, E1 (SURFACE WATER), AND TO MINIMUM GRADIENTS, REFER TABLE 2, E1</li> </ol>																					
	NEW EXTERNAL CONCRETE TERRACE SLAB ON GRADE		GULLY TRAP	<p><b>VENT SIZES:</b></p> <table border="1"> <tr><td>TERMINAL VENTS</td><td>80dia</td></tr> <tr><td>FIXTURE DISCHARGE VENT</td><td>40dia</td></tr> <tr><td>INSPECTION OPENING</td><td>40dia</td></tr> </table>	TERMINAL VENTS	80dia	FIXTURE DISCHARGE VENT	40dia	INSPECTION OPENING	40dia	<p><b>GENERAL WATER RETICULATION NOTES</b></p> <ol style="list-style-type: none"> <li>RUN ALL DOMESTIC HOT AND COLD WATER PIPES IN COPPER, PP, PEX PIPING SYSTEM</li> <li>INSULATE ALL HOT WATER PIPE RUNS REGARDLESS OF THE TYPE OF PIPE USED</li> <li>HOT AND COLD WATER INSTALLATION SHALL COMPLY IN FULL WITH NZBC AND ALL RELEVANT STANDARDS</li> <li>ALL PIPE DIAMETERS ARE INTERNAL DIMENSIONS</li> <li>NOTE DRAWINGS ARE SCHEMATIC ONLY</li> <li>ALLOW TO INSTALL MEDIUM HAZARD BACKFLOW PREVENTION DEVICES ON ALL FIXTURES REQUIRED TO HAVE THEM UNDER NZBC G12.</li> <li>LIMIT WATER TEMPERATURE AT 55deg TEMPERING VALVE MUST BE SUPPLIED WHERE SANITARY FITTINGS ARE USED FOR PERSONAL HYGIENE</li> <li>MINIMUM PIPE SIZES TO BE 20dia TO ALL SINKS, SHOWERS AND TEMPERING VALVES, AND 15dia TO ALL WC AND BASINS. 10dia PIPES NOT TO BE USED ANYWHERE</li> </ol>															
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**BUILDING CONSENT**



1 WALL TYPES & SETOUT PLAN LG  
A2-001 1:50

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**REVISIONS**

ISSUE	DATE	REVISION
A	11/02/2028	BUILDING CONSENT

**DRAWING TO BE PRINTED & READ IN COLOUR**

**MAHANA**  
 30 DE LUEN AVE,  
 TINDALLS BEACH

**CONSULTANTS**  
 STRUCTURAL - ACH CONSULTING ENGINEERS  
 FIRE - ORIGIN FIRE CONSULTANTS

**PROJECT**  
 MAHANA  
 30 DE LUEN AVE,  
 TINDALLS BEACH

**DRAWING**  
 WALL TYPES & SETOUT  
 PLAN LG

**SCALE AT A1**  
 1:50

**SHEET**  
 A1-008

**REVISION**  
 A

**BUILDING CONSENT**

11/02/2028 2:20:33 pm  
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**WALL TYPES**

GRAPHIC	DESCRIPTION
	TIMBER FRAMED
	FIRE RATED TIMBER FRAMED, FRR 30/30/30
	CONCRETE MASONRY BLOCK
	INSULATED CONCRETE FORMWORK (ICF)

**NOTE:**

- ALL EXTERNAL WALLS TO HAVE FLEXIBLE WALL UNDERLAY UNLESS NOTED OTHERWISE FOR FIRE RATING OR EXTERNAL BRACING REQUIREMENTS (REFER STRUCTURAL ENG.)
- TANKING TO ALL RETAINING WALLS FORMING PART OF BUILDING ENVELOPE
- READ IN CONJUNCTION WITH DETAILS

**WALL TYPE KEY**

**WALL FRAMING AND LINING KEY**

1 | i | A | f | a

↑ a = COLOUR (OPTIONAL)  
 ↑ f = FINISH  
 ↑ A = LINING  
 ↑ i = INSULATION  
 ↑ 1 = STRUCTURE

**STRUCTURE TYPES**

- 280mm INSULATED CONCRETE FORMWORK THERMAL INSULATION
- 140 x 45 S68 TIMBER FRAMING @ 600c/s
- TIMBER FRAMING TO STRUCTURAL ENG. SPECIFICATION
- 90 x 45 S68 TIMBER FRAMING @ 600c/s
- DOUBLE FRAME WALL: 90 x 45 S68 TIMBER FRAMING WITH 25mm GAP TO 140 x 45 S68 TIMBER FRAMING. STUDS @ 600c/s
- 190mm CONCRETE MASONRY, FLUSH POINTED
- 2140 x 45 S68 DOUBLE STUD TIMBER FRAMING TO STRUCTURAL ENG. SPECIFICATION FOR FRR 30/30/30

**NB: ALLOW FOR TIMBER PACKING AS NOTED ON PLANS**

**INSULATION TYPES**

- 140mm R 3.2 POLYESTER THERMAL INSULATION
- POLYESTER ACOUSTIC INSULATION
- POLYESTER ACOUSTIC INSULATION FOR IT WALLS

**LINING TYPES**

- 10mm GIB STANDARD
- 10mm GIB FYRELINE, INSTALLED TO GIB WEATHERLINE SYSTEM **GWTL30**
- 13mm GIB FYRELINE, INSTALLED TO GIB FIRE RATED SYSTEM **GBTL30 2S**
- 2x 10mm GIB STANDARD, INSTALLED TO GIB NOISE CONTROL SYSTEM **GBTLA 30a**
- 9mm JH VILLABOARD

**NB: ALLOW TO SUBSTITUTE LININGS FOR:**  
 - GIB AQUALINE IN ALL INSTANCES ADJACENT WET SINK AREAS  
 - BRACING LININGS AS PER STRUCTURAL ENGINEER'S DESIGN

**FINISH**

- PAINTING INTERIOR
- WALL TILE SYSTEM (ON WATERPROOFING WHERE REQUIRED TO COMPLY WITH NZBC E3 IN WET AREAS)
- TIMBER PANELS TBC
- BRICK VENEER / SLIPS
- CONCRETE SEALER

**COLOUR**

a = TBC

**CLADDING TYPES**

- BRICK VENEER ON 40mm CAVITY. NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN. NOTE TB1 - NO SUBSTITUTE IS PERMITTED. **ST. ANGLE LINTEL TYPES AS BELOW:**  
 L1 = 80 x 80 x 6 mm  
 L2 = 125 x 75 x 6 mm  
 L3 = 125 x 75 x 10 mm
- BRICK SLIPS
- TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS
- TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS - ALL TYPE A NON-COMBUSTIBLE AS REQUIRED BY THE FIRE REPORT
- JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS

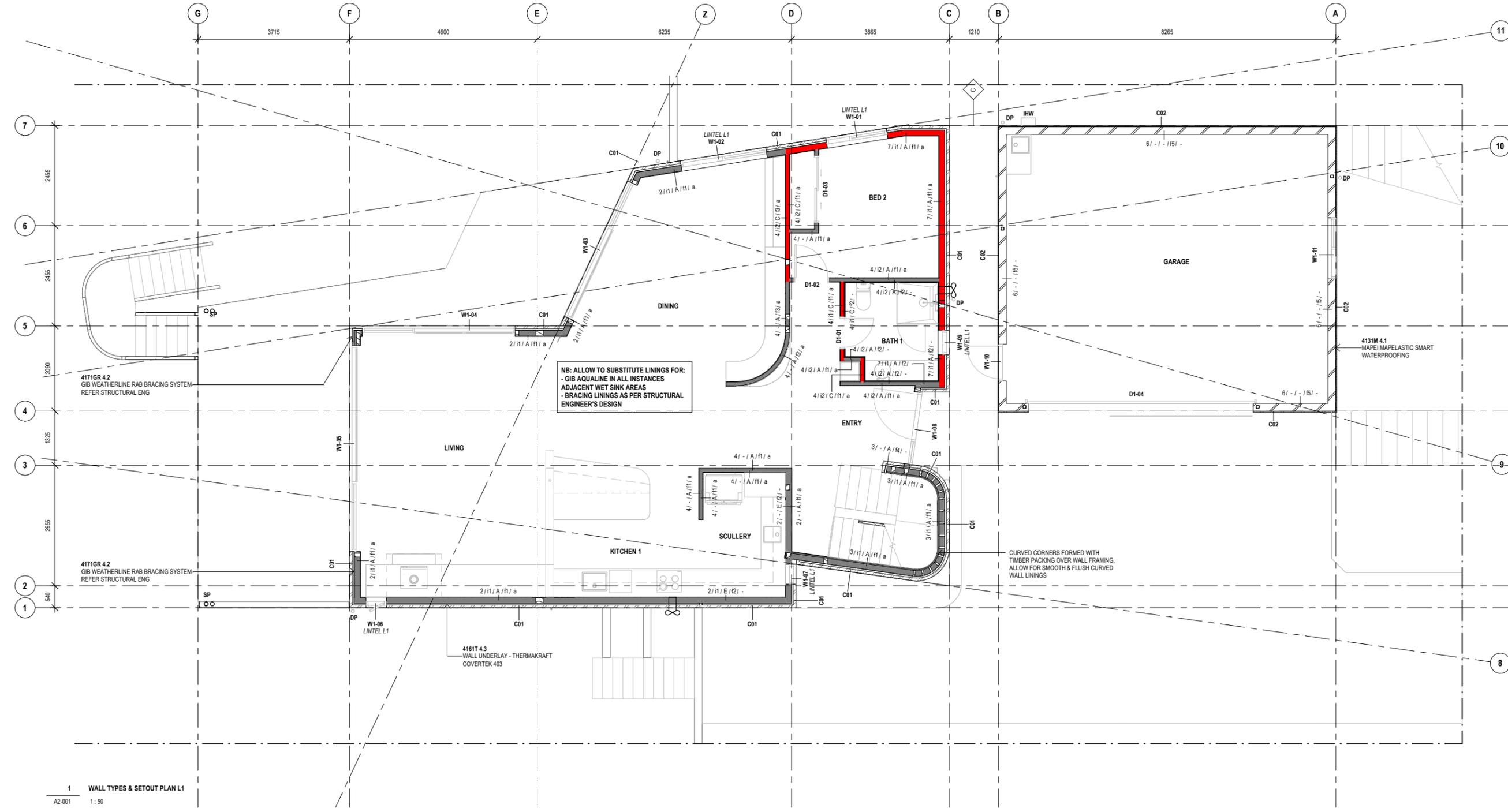
**NOTES**

- READ IN CONJUNCTION WITH FIRE REPORT AND STRUCTURAL ENGINEER'S DRAWINGS.
- ALL WALL BRACING & LINTELS TO STRUCTURAL ENGINEER'S DESIGN.
- ALL TIMBER FRAMING TO STRUCTURAL ENGINEER'S SPEC. OR TO NZS 3604.
- UNLESS NOTED OTHERWISE, DIMENSIONS GIVEN TO FRAMING LINE OR FACE OF CONCRETE/BLOCKWORK, AS REQUIRED. ALLOW FOR ADDITIONAL NOGGING WITHIN WALLS FOR FIXING CABINETS AND FIXTURES.
- PROVIDE NOGGING IN EXTERNAL WALLS AS REQUIRED BY MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SPECIFIED CLADDINGS.
- CONTRACTOR TO ENSURE LENGTH OF FIXINGS SUIT MINIMUM EMBEDMENT INTO STRUCTURE REQUIREMENTS FOR ALL SELECTED CLADDINGS, LININGS & FINISHES.
- ALL SPECIFIED GIB SYSTEMS TO BE INSTALLED TO GIB INSTALLATION INSTRUCTIONS
- ALL PENETRATIONS IN FIRE RATED WALLS TO BE FIRE STOPPED AS PER GIB INSTRUCTIONS

**SERVICES & STRUCTURE**

GRAPHIC	DESCRIPTION
	DISTRIBUTION BOARD
	HOSE TAP
	GULLY TRAP
	DOWN PIPES
	STEEL POSTS - REFER STRUCTURAL ENG.
	HOT WATER CYLINDER
	INSTANT HOT WATER UNIT
	WALL OR ROOF MECH. EXTRACT FANS - IN BATHROOMS MIN. FLOWRATE 50 L/s - IN KITCHEN MIN. FLOWRATE 100 L/s





**NOTES**

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**DRAWING TO BE PRINTED & READ IN COLOUR**

**1 WALL TYPES & SETOUT PLAN L1**  
A2-001 1:50

**Bossley Architects**  
2/55 MACKELVIE STREET  
AUCKLAND 1021, NEW ZEALAND  
+64 9 361 2201  
mail@bossleyarchitects.co.nz

**CONSULTANTS**  
STRUCTURAL - ACH CONSULTING ENGINEERS  
FIRE - ORIGIN FIRE CONSULTANTS

WALL TYPES		WALL TYPE KEY							CLADDING TYPES	NOTES	SERVICES & STRUCTURE	
GRAPHIC	DESCRIPTION	WALL FRAMING AND LINING KEY		STRUCTURE TYPES	INSULATION TYPES	LINING TYPES	FINISH	COLOUR			GRAPHIC	DESCRIPTION
	TIMBER FRAMED	 a = COLOUR (OPTIONAL) f = FINISH A = LINING 1i = INSULATION 1 = STRUCTURE	1 = 280mm INSULATED CONCRETE FORMWORK THERMAL INSULATION	i1 = 140mm R 3.2 POLYESTER THERMAL INSULATION	A = 10mm GIB STANDARD	f1 = PAINTING INTERIOR	a = TBC	C01	BRICK VENEER ON 40mm CAVITY NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN NOTE TB1 - NO SUBSTITUTE IS PERMITTED. ST. ANGLE LINTEL TYPES AS BELOW: L1 = 80 x 80 x 6 mm L2 = 125 x 75 x 6 mm L3 = 125 x 75 x 10 mm	1. READ IN CONJUNCTION WITH FIRE REPORT AND STRUCTURAL ENGINEER'S DRAWINGS. 2. ALL WALL BRACING & LINTELS TO STRUCTURAL ENGINEER'S DESIGN. 3. ALL TIMBER FRAMING TO STRUCTURAL ENGINEER'S SPEC. OR TO NZS 3604. 4. UNLESS NOTED OTHERWISE, DIMENSIONS GIVEN TO FRAMING LINE OR FACE OF CONCRETE/BLOCKWORK, AS REQUIRED. ALLOW FOR ADDITIONAL NOGGING WITHIN WALLS FOR FIXING CABINETS AND FIXTURES. 5. PROVIDE NOGGING IN EXTERNAL WALLS AS REQUIRED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SPECIFIED CLADDINGS. 6. CONTRACTOR TO ENSURE LENGTH OF FIXINGS SUIT MINIMUM EMBEDMENT INTO STRUCTURE REQUIREMENTS FOR ALL SELECTED CLADDINGS, LININGS & FINISHES. 7. ALL SPECIFIED GIB SYSTEMS TO BE INSTALLED TO GIB INSTALLATION INSTRUCTIONS 8. ALL PENETRATIONS IN FIRE RATED WALLS TO BE FIRE STOPPED AS PER GIB INSTRUCTIONS		DISTRIBUTION BOARD
	FIRE RATED TIMBER FRAMED, FRR 30/30/30		2 = 140 x 45 SG8 TIMBER FRAMING @ 600c/s	i2 = POLYESTER ACOUSTIC INSULATION	B = 10mm GIB FYPRELINE, INSTALLED TO GIB WEATHERLINE SYSTEM <b>GWTL30</b>	f2 = WALL TILE SYSTEM (ON WATERPROOFING WHERE REQUIRED TO COMPLY WITH NZBC E3 IN WET AREAS)			C02		BRICK SLIPS	
	CONCRETE MASONRY BLOCK	3 = TIMBER FRAMING TO STRUCTURAL ENG. SPECIFICATION	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	C = 13mm GIB FYPRELINE, INSTALLED TO GIB FIRE RATED SYSTEM <b>GBTL30 2S</b>	f3 = TIMBER PANELS TBC			C03a	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS		GULLY TRAP	
	INSULATED CONCRETE FORMWORK (ICF)	4 = 90 x 45 SG8 TIMBER FRAMING @ 600c/s		D = 2x 10mm GIB STANDARD, INSTALLED TO GIB NOISE CONTROL SYSTEM <b>GBTLA 30a</b>	f4 = BRICK VENEER / SLIPS			C03b	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS - ALL TYPE A NON-COMBUSTIBLE AS REQUIRED BY THE FIRE REPORT		DOWN PIPES	
		5 = DOUBLE FRAME WALL: 90 x 45 SG8 TIMBER FRAMING WITH 25mm GAP TO 140 x 45 SG8 TIMBER FRAMING. STUDS @ 600c/s		E = 9mm JH VILLABOARD	f5 = CONCRETE SEALER			C04	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS		STEEL POSTS - REFER STRUCTURAL ENG.	
		6 = 190mm CONCRETE MASONRY, FLUSH POINTED		<b>NB: ALLOW TO SUBSTITUTE LININGS FOR:</b> - GIB AQUALINE IN ALL INSTANCES ADJACENT WET SINK AREAS - BRACING LININGS AS PER STRUCTURAL ENGINEER'S DESIGN							HOT WATER CYLINDER	
		7 = 2140 x 45 SG8 DOUBLE STUD TIMBER FRAMING TO STRUCTURAL ENG. SPECIFICATION FOR FRR 30/30/30		<b>NB: ALLOW FOR TIMBER PACKING AS NOTED ON PLANS</b>							INSTANT HOT WATER UNIT	
											WALL OR ROOF MECH. EXTRACT FANS - IN BATHROOMS MIN. FLOWRATE 50 L/s - IN KITCHEN MIN. FLOWRATE 100 L/s	



**BUILDING CONSENT**

PROJECT  
**MAHANA**  
30 DE LUEN AVE,  
TINDALLS BEACH

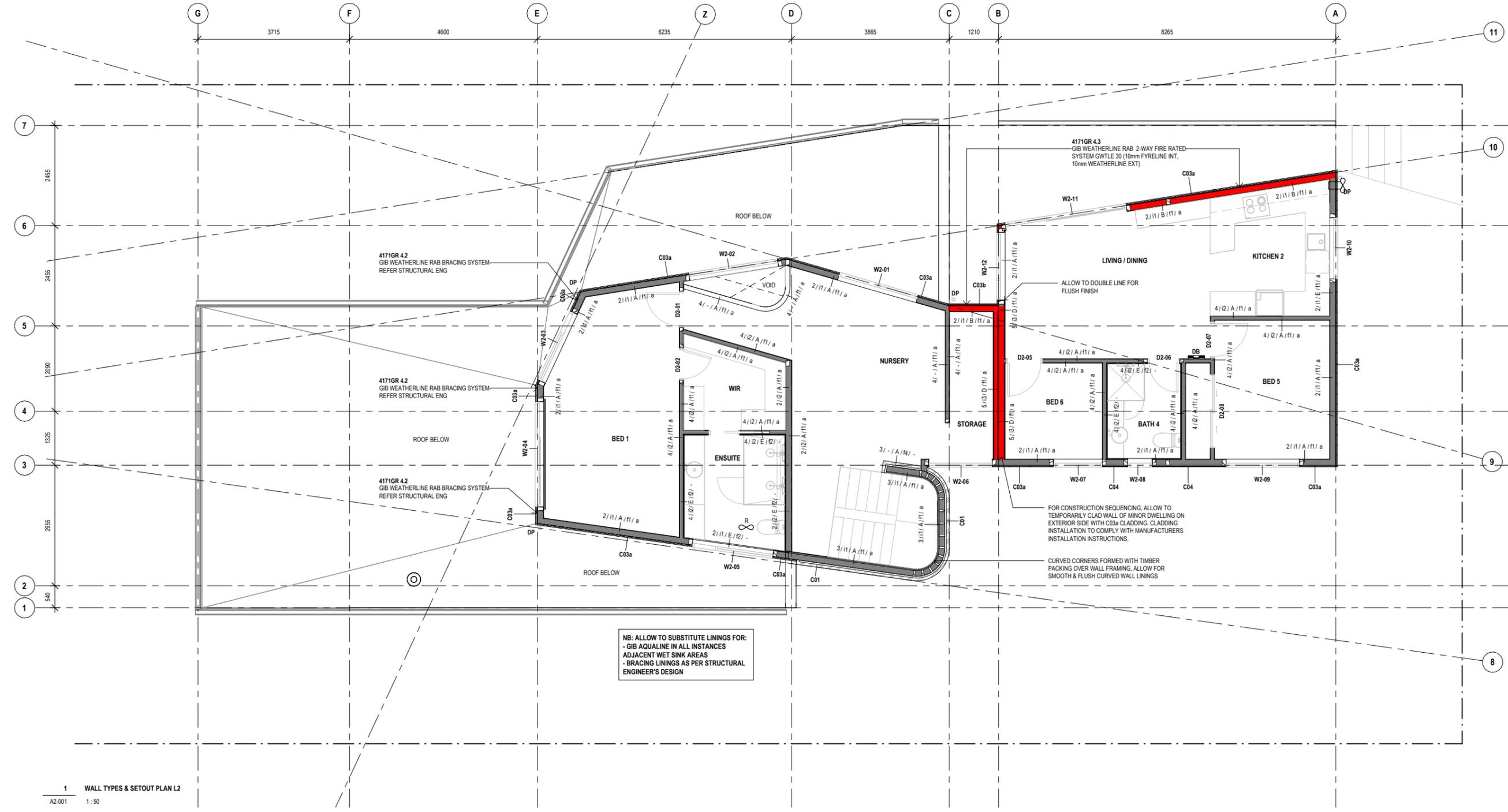
DRAWING  
**WALL TYPES & SETOUT PLAN L1**

SCALE AT A1  
1:50

SHEET  
**A1-009**

REVISION  
**A**

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NB: ALLOW TO SUBSTITUTE LININGS FOR:  
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A	11/02/2028	BUILDING CONSENT

**DRAWING TO BE PRINTED & READ IN COLOUR**

1 WALL TYPES & SETOUT PLAN L2  
 A2-001 1:50

**Bossley Architects**  
 2/55 MACKELVIE STREET  
 AUCKLAND 1021, NEW ZEALAND  
 +64 9 361 2201  
 mail@bossleyarchitects.co.nz

**CONSULTANTS**  
 STRUCTURAL - ACH CONSULTING ENGINEERS  
 FIRE - ORIGIN FIRE CONSULTANTS

**PROJECT**  
 MAHANA  
 30 DE LUEN AVE,  
 TINDALLS BEACH

**DRAWING**  
 WALL TYPES & SETOUT  
 PLAN L2

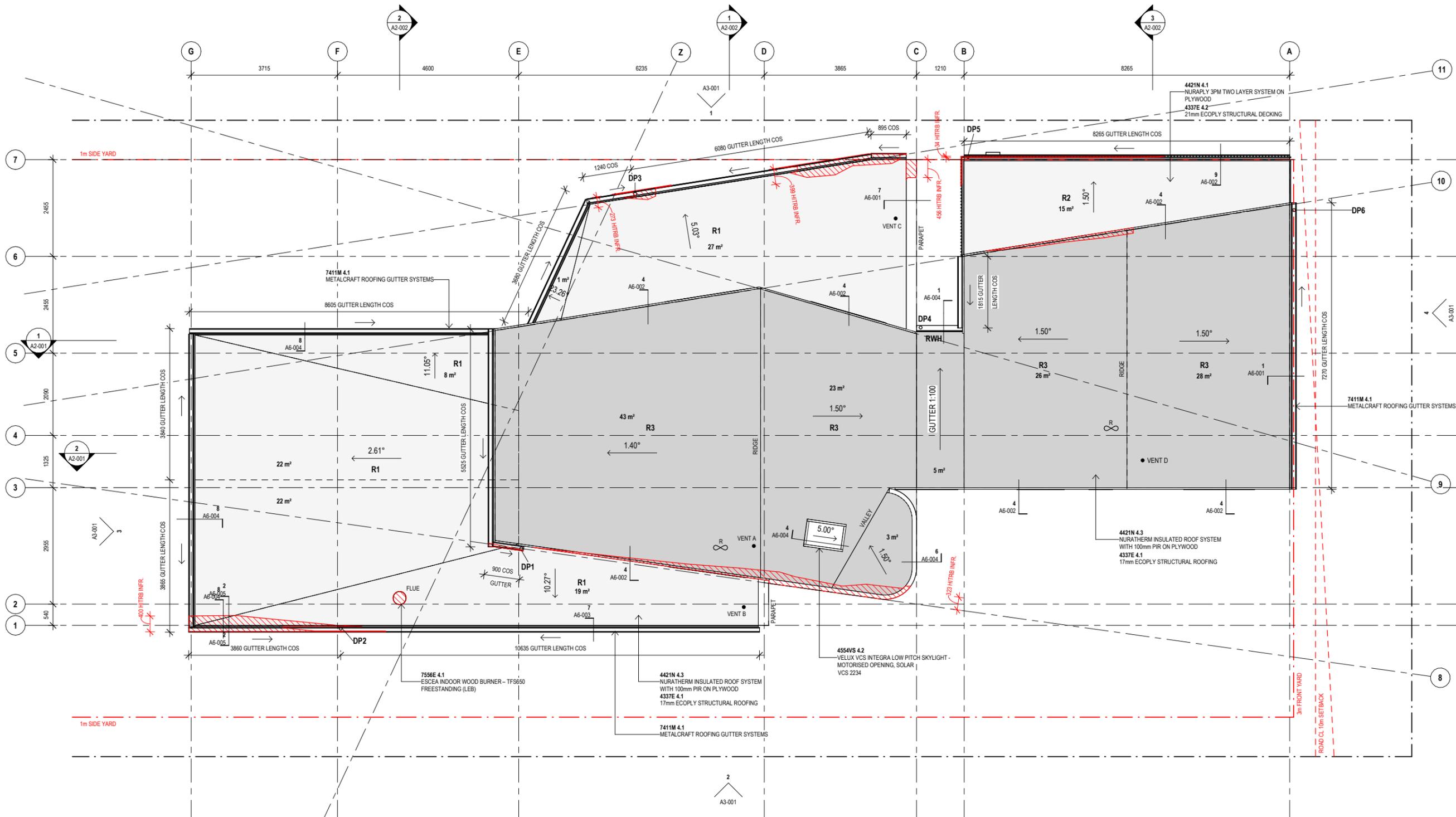
SCALE AT A1  
 1:50  
 SHEET  
**A1-010**

REVISION  
**A**  
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WALL TYPES		WALL TYPE KEY							CLADDING TYPES		NOTES		SERVICES & STRUCTURE		
GRAPHIC	DESCRIPTION	WALL FRAMING AND LINING KEY		STRUCTURE TYPES	INSULATION TYPES	LINING TYPES	FINISH	COLOUR	C01	C02	C03a	C03b	C04	GRAPHIC	DESCRIPTION
	TIMBER FRAMED		a = COLOUR (OPTIONAL) f1 = FINISH A = LINING i1 = INSULATION 1 = STRUCTURE	1 = 280mm INSULATED CONCRETE FORMWORK THERMAL INSULATION	i1 = 140mm R 3.2 POLYESTER THERMAL INSULATION	A = 10mm GIB STANDARD	f1 = PAINTING INTERIOR	a = TBC	BRICK VENEER ON 40mm CAVITY NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN NOTE TB1 - NO SUBSTITUTE IS PERMITTED. ST. ANGLE LINTEL TYPES AS BELOW: L1 = 80 x 80 x 6 mm L2 = 125 x 75 x 6 mm L3 = 125 x 75 x 10 mm	BRICK SLIPS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS AS REQUIRED BY THE FIRE REPORT	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS		DISTRIBUTION BOARD
	FIRE RATED TIMBER FRAMED, FRR 30/30/30			2 = 140 x 45 SG8 TIMBER FRAMING @ 600cs	i2 = POLYESTER ACOUSTIC INSULATION	B = 10mm GIB FYRELINE, INSTALLED TO GIB WEATHERLINE SYSTEM GWTL30	i2 = WALL TILE SYSTEM (ON WATERPROOFING WHERE REQUIRED TO COMPLY WITH NZBC E3 IN WET AREAS)	B = 10mm GIB FYRELINE, INSTALLED TO GIB WEATHERLINE SYSTEM GWTL30	i2 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	f2 = BRICK VENEER / SLIPS	BRICK VENEER ON 40mm CAVITY NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN NOTE TB1 - NO SUBSTITUTE IS PERMITTED. ST. ANGLE LINTEL TYPES AS BELOW: L1 = 80 x 80 x 6 mm L2 = 125 x 75 x 6 mm L3 = 125 x 75 x 10 mm	BRICK SLIPS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS AS REQUIRED BY THE FIRE REPORT	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS
	CONCRETE MASONRY BLOCK	3 = TIMBER FRAMING TO STRUCTURAL ENG. SPECIFICATION	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	3 = TIMBER FRAMING TO STRUCTURAL ENG. SPECIFICATION	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	C = 13mm GIB FYRELINE, INSTALLED TO GIB FIRE RATED SYSTEM GBTL30 2S	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	f3 = TIMBER PANELS TBC	BRICK VENEER ON 40mm CAVITY NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN NOTE TB1 - NO SUBSTITUTE IS PERMITTED. ST. ANGLE LINTEL TYPES AS BELOW: L1 = 80 x 80 x 6 mm L2 = 125 x 75 x 6 mm L3 = 125 x 75 x 10 mm	BRICK SLIPS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS AS REQUIRED BY THE FIRE REPORT	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS		GULLY TRAP
	INSULATED CONCRETE FORMWORK (ICF)	4 = 90 x 45 SG8 TIMBER FRAMING @ 600cs	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	4 = 90 x 45 SG8 TIMBER FRAMING @ 600cs	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	D = 2x 10mm GIB STANDARD, INSTALLED TO GIB NOISE CONTROL SYSTEM GBTLA 30a	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	f3 = TIMBER PANELS TBC	BRICK VENEER ON 40mm CAVITY NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN NOTE TB1 - NO SUBSTITUTE IS PERMITTED. ST. ANGLE LINTEL TYPES AS BELOW: L1 = 80 x 80 x 6 mm L2 = 125 x 75 x 6 mm L3 = 125 x 75 x 10 mm	BRICK SLIPS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS AS REQUIRED BY THE FIRE REPORT	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS		DOWN PIPES
		5 = DOUBLE FRAME WALL: 90 x 45 SG8 TIMBER FRAMING WITH 25mm GAP TO 140 x 45 SG8 TIMBER FRAMING. STUDS @ 600cs	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	5 = DOUBLE FRAME WALL: 90 x 45 SG8 TIMBER FRAMING WITH 25mm GAP TO 140 x 45 SG8 TIMBER FRAMING. STUDS @ 600cs	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	E = 9mm JH VILLAGOARD	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	f3 = TIMBER PANELS TBC	BRICK VENEER ON 40mm CAVITY NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN NOTE TB1 - NO SUBSTITUTE IS PERMITTED. ST. ANGLE LINTEL TYPES AS BELOW: L1 = 80 x 80 x 6 mm L2 = 125 x 75 x 6 mm L3 = 125 x 75 x 10 mm	BRICK SLIPS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS AS REQUIRED BY THE FIRE REPORT	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS		STEEL POSTS - REFER STRUCTURAL ENG.
		6 = 190mm CONCRETE MASONRY, FLUSH POINTED	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	6 = 190mm CONCRETE MASONRY, FLUSH POINTED	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS		i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	f3 = TIMBER PANELS TBC	BRICK VENEER ON 40mm CAVITY NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN NOTE TB1 - NO SUBSTITUTE IS PERMITTED. ST. ANGLE LINTEL TYPES AS BELOW: L1 = 80 x 80 x 6 mm L2 = 125 x 75 x 6 mm L3 = 125 x 75 x 10 mm	BRICK SLIPS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS AS REQUIRED BY THE FIRE REPORT	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS		HOT WATER CYLINDER
		7 = 2140 x 45 SG8 DOUBLE STUD TIMBER FRAMING TO STRUCTURAL ENG. SPECIFICATION FOR FRR 30/30/30	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	7 = 2140 x 45 SG8 DOUBLE STUD TIMBER FRAMING TO STRUCTURAL ENG. SPECIFICATION FOR FRR 30/30/30	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS		i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	f3 = TIMBER PANELS TBC	BRICK VENEER ON 40mm CAVITY NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN NOTE TB1 - NO SUBSTITUTE IS PERMITTED. ST. ANGLE LINTEL TYPES AS BELOW: L1 = 80 x 80 x 6 mm L2 = 125 x 75 x 6 mm L3 = 125 x 75 x 10 mm	BRICK SLIPS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS AS REQUIRED BY THE FIRE REPORT	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS		INSTANT HOT WATER UNIT
		8 = 190mm CONCRETE MASONRY, FLUSH POINTED	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	8 = 190mm CONCRETE MASONRY, FLUSH POINTED	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS		i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	f3 = TIMBER PANELS TBC	BRICK VENEER ON 40mm CAVITY NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN NOTE TB1 - NO SUBSTITUTE IS PERMITTED. ST. ANGLE LINTEL TYPES AS BELOW: L1 = 80 x 80 x 6 mm L2 = 125 x 75 x 6 mm L3 = 125 x 75 x 10 mm	BRICK SLIPS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS AS REQUIRED BY THE FIRE REPORT	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS		WALL OR ROOF MECH. EXTRACT FANS - IN BATHROOMS MIN. FLOWRATE 50 L/s - IN KITCHEN MIN. FLOWRATE 100 L/s
		9 = 190mm CONCRETE MASONRY, FLUSH POINTED	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	9 = 190mm CONCRETE MASONRY, FLUSH POINTED	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS		i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	f3 = TIMBER PANELS TBC	BRICK VENEER ON 40mm CAVITY NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN NOTE TB1 - NO SUBSTITUTE IS PERMITTED. ST. ANGLE LINTEL TYPES AS BELOW: L1 = 80 x 80 x 6 mm L2 = 125 x 75 x 6 mm L3 = 125 x 75 x 10 mm	BRICK SLIPS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS AS REQUIRED BY THE FIRE REPORT	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS		WALL OR ROOF MECH. EXTRACT FANS - IN BATHROOMS MIN. FLOWRATE 50 L/s - IN KITCHEN MIN. FLOWRATE 100 L/s
		10 = 190mm CONCRETE MASONRY, FLUSH POINTED	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	10 = 190mm CONCRETE MASONRY, FLUSH POINTED	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS		i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	f3 = TIMBER PANELS TBC	BRICK VENEER ON 40mm CAVITY NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN NOTE TB1 - NO SUBSTITUTE IS PERMITTED. ST. ANGLE LINTEL TYPES AS BELOW: L1 = 80 x 80 x 6 mm L2 = 125 x 75 x 6 mm L3 = 125 x 75 x 10 mm	BRICK SLIPS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS AS REQUIRED BY THE FIRE REPORT	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS		
		11 = 190mm CONCRETE MASONRY, FLUSH POINTED	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	11 = 190mm CONCRETE MASONRY, FLUSH POINTED	i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS		i3 = POLYESTER ACOUSTIC INSULATION FOR IT WALLS	f3 = TIMBER PANELS TBC	BRICK VENEER ON 40mm CAVITY NOTE THE TWO-STORY CLADDING SYSTEM USED MUST BE COMPLETED TO DESIGN NOTE TB1 - NO SUBSTITUTE IS PERMITTED. ST. ANGLE LINTEL TYPES AS BELOW: L1 = 80 x 80 x 6 mm L2 = 125 x 75 x 6 mm L3 = 125 x 75 x 10 mm	BRICK SLIPS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS AS REQUIRED BY THE FIRE REPORT	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS		

BUILDING CONSENT

11/02/2028 2:20:42 pm



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 mail@bossleyarchitects.co.nz

**CONSULTANTS**  
 STRUCTURAL - ACH CONSULTING ENGINEERS  
 FIRE - ORIGIN FIRE CONSULTANTS

**PROJECT**  
 MAHANA  
 30 DE LUEN AVE,  
 TINDALLS BEACH

**DRAWING**  
 ROOF PLAN

SCALE AT A1  
 1:50

**REVISION**  
 A1-011 A

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1 ROOF PLAN  
 A2-001 1:50

**ROOF PLAN LEGEND**

GRAPHIC	DESCRIPTION
R1	LEVEL 1 MEMBRANE ROOFS NURAPLY 3PM MEMBRANE WARMROOF SYSTEM WITH 100mm PIR ON 17mm PLYWOOD
R2	LEVEL 1 MEMBRANE DECK NURAPLY 3PM MEMBRANE SYSTEM ON 21mm PLYWOOD
R3	LEVEL 2 ROOFS NURAPLY 3PM MEMBRANE WARMROOF SYSTEM WITH 100mm PIR ON 17mm PLYWOOD
DP	DOWN PIPES - REFER LEGEND FOR SIZE & SPEC
RWH	CUSTOM RAINWATER HEAD - REFER DETAILS
R	MECH. EXTRACT ROOF PENETRATION
VENT ●	SANITARY VENT PIPE ROOF PENETRATION - REFER PLUMBING LAYOUTS

**ROOFING NOTES**

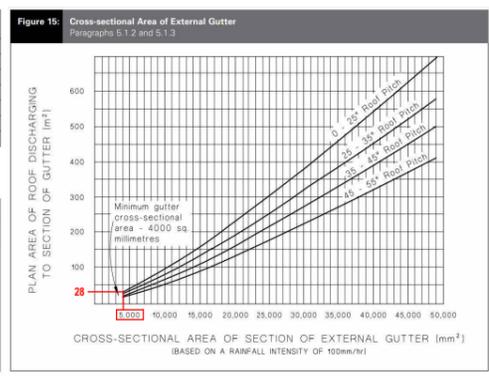
- ROOFING TO BE INSTALLED BY ACCREDITED ROOFING INSTALLER
- CONTRACTOR TO ENSURE MINIMUM EMBEDMENT REQUIREMENTS FOR ALL SELECTED ROOF CLADDINGS & SUBSTRATES
- LOCATIONS FOR ANY ROOF PENETRATIONS AND ROOF MOUNTED ELEMENTS NOT SHOWN ON DRAWINGS TO BE CONFIRMED WITH ARCHITECT
- ALL ROOF PENETRATIONS AS DETAILED AND TO ROOFING MANUFACTURERS INSTALLATION DETAILS

**DOWNPIPE SCHEDULE**

NUMBER	SIZE	DESCRIPTION	ROOF AREA SERVED
DP1	80 dia	ROUND WITH SPREADER TO LOWER ROOF	43m2
DP2	80 dia	ROUND	84m2
DP3	80 dia	ROUND	51m2
DP4	80 dia	ROUND	58m2
DP5	80 dia	ROUND	15m2
DP6	80 dia	ROUND	28m2

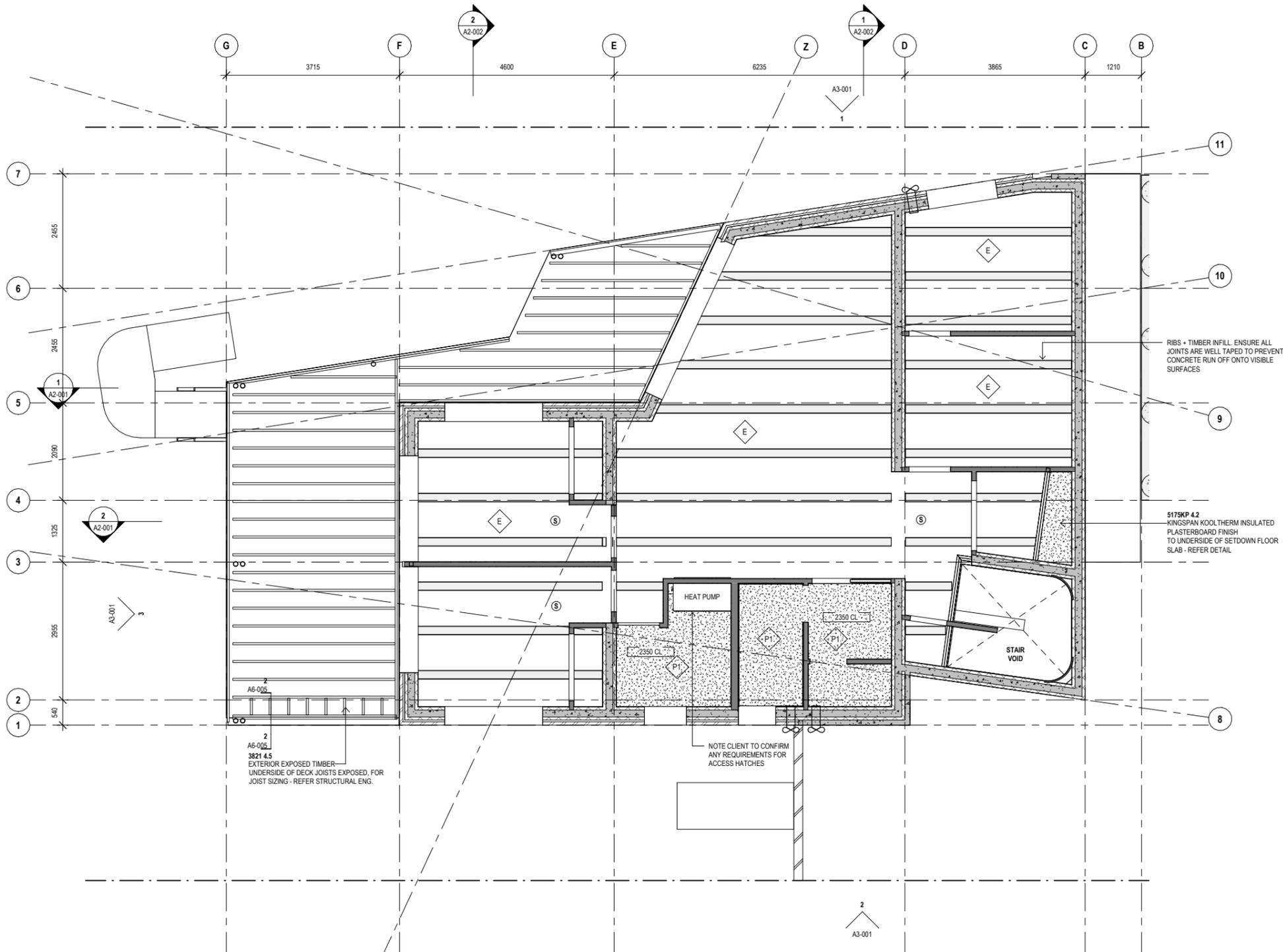
**NZBC E1/A1**  
 Table 5: Downpipe Sizes for Given Roof Pitch and Area  
 Paragraph: 4.2.1

Downpipe size (mm) (minimum internal sizes)	Roof pitch			
	0-25°	25-35°	35-45°	45-55°
63 mm diameter	60	50	40	35
75 mm diameter	85	70	60	50
100 mm diameter	130	100	80	60
150 mm diameter	350	290	250	200
85 x 50 rectangular	60	50	45	35
100 x 50 rectangular	100	80	70	60
75 x 75 rectangular	110	90	80	65
100 x 75 rectangular	150	120	100	80



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11/02/2028 2:20:45 pm



1 RCP LG  
A2-001 1:50

CEILING & SOFFIT FINISHES		SERVICES LEGEND	
	13mm GIB STANDARD PLASTERBOARD CEILING ON RONDO 310 BATTENS, DIRECT FIXED OR CLIP FIXED TO SUIT LOCATION. PAINT FINISH.		EXPOSED FLOOR STRUCTURE (NO CEILING)
	13mm GIB STANDARD PLASTERBOARD CEILING ON RONDO 308 BATTENS, CLIP FIXED OR SUSPENDED SYSTEM TO SUIT LOCATION. PAINT FINISH.		6mm JH VILLBOARD WITH EXPRESSED JOINTS, PAINT FINISH ON 35mm TIMBER BATTENS
	GIB FIRE RATED CEILING SYSTEM GBUC30 16mm GIB FYRELINE ON RONDO 308 BATTENS, CLIP FIXED OR SUSPENDED SYSTEM TO SUIT LOCATION. PAINT FINISH.		6mm JH VILLBOARD WITH EXPRESSED JOINTS AND PAINT FINISH ON 35mm TIMBER BATTENS ON GIB WEATHERLINE FIRE RATED SOFFIT SYSTEM GWUC30. 13mm GIB WEATHERLINE
	GIB FIRE RATED CEILING SYSTEM GBUC30 16mm GIB FYRELINE ON RONDO 310 BATTENS, CLIP FIXED. PAINT FINISH.		
			NOTE: ALLOW TO SUBSTITUTE GIB AQUALINE TO BATHROOMS
			INTERCONNECTED SMOKE DETECTOR (TYPE 1 INSTALLED TO NZBC F7)
			ROOF EXTRACT FANS - IN BATHROOMS MIN. FLOWRATE 50 L/s - IN KITCHEN MIN. FLOWRATE 100 L/s
			WALL EXTRACT FANS - IN BATHROOMS MIN. FLOWRATE 50 L/s - IN KITCHEN MIN. FLOWRATE 100 L/s

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CONSULTANTS  
 STRUCTURAL - ACH CONSULTING ENGINEERS  
 FIRE - ORIGIN FIRE CONSULTANTS

PROJECT  
**MAHANA**  
 30 DE LUEN AVE,  
 TINDALLS BEACH

DRAWING  
**REFLECTED CEILING PLAN LG**

SCALE AT A1  
 1:50

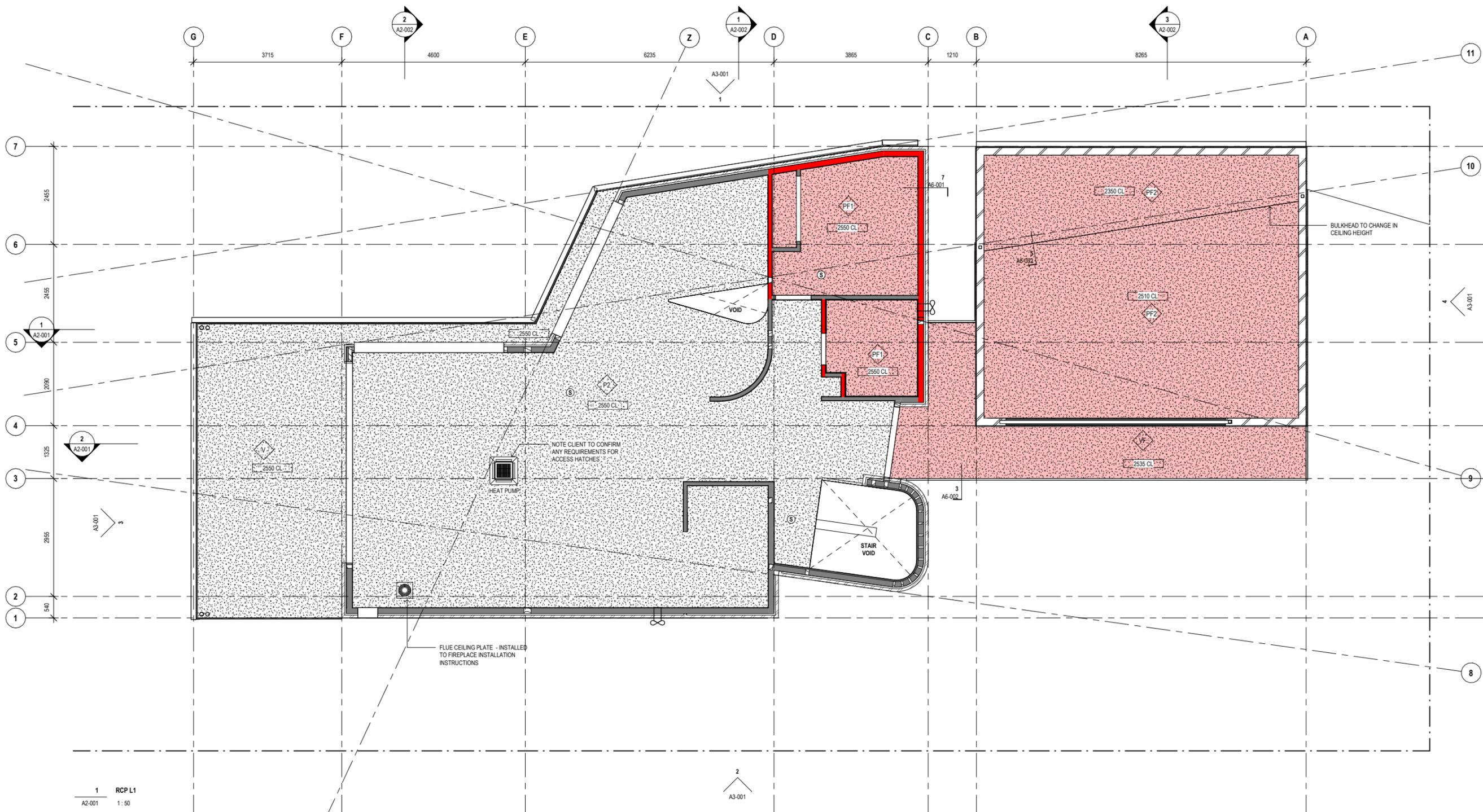
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11/02/2028 2:28:47 PM



1 RCP L1  
A2-001 1:50

2  
A3-001

CEILING & SOFFIT FINISHES		SERVICES LEGEND	
	P1 13mm GIB STANDARD PLASTERBOARD CEILING ON RONDO 310 BATTENS, DIRECT FIXED OR CLIP FIXED TO SUIT LOCATION. PAINT FINISH.		E EXPOSED FLOOR STRUCTURE (NO CEILING)
	P2 13mm GIB STANDARD PLASTERBOARD CEILING ON RONDO 308 BATTENS, CLIP FIXED OR SUSPENDED SYSTEM TO SUIT LOCATION. PAINT FINISH.		V 6mm JH VILLABOARD WITH EXPRESSED JOINTS, PAINT FINISH ON 35mm TIMBER BATTENS
	PF1 GIB FIRE RATED CEILING SYSTEM GBUC30 16mm GIB FYRELINE ON RONDO 308 BATTENS, CLIP FIXED OR SUSPENDED SYSTEM TO SUIT LOCATION. PAINT FINISH.		VF 6mm JH VILLABOARD WITH EXPRESSED JOINTS AND PAINT FINISH ON 35mm TIMBER BATTENS ON GIB WEATHERLINE. FIRE RATED SOFFIT SYSTEM GWUC30. 13mm GIB WEATHERLINE
	PF2 GIB FIRE RATED CEILING SYSTEM GBUC30 16mm GIB FYRELINE ON RONDO 310 BATTENS, CLIP FIXED. PAINT FINISH.		
	NOTE: ALLOW TO SUBSTITUTE GIB AQUALINE TO BATHROOMS		
			S INTERCONNECTED SMOKE DETECTOR (TYPE 1 INSTALLED TO NZBC F7)
			W WALL EXTRACT FANS - IN BATHROOMS MIN. FLOWRATE 50 L/s - IN KITCHEN MIN. FLOWRATE 100 L/s
			R ROOF EXTRACT FANS - IN BATHROOMS MIN. FLOWRATE 50 L/s - IN KITCHEN MIN. FLOWRATE 100 L/s

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BULKHEAD TO CHANGE IN CEILING HEIGHT

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CONSULTANTS  
 STRUCTURAL - ACH CONSULTING ENGINEERS  
 FIRE - ORIGIN FIRE CONSULTANTS

PROJECT  
**MAHANA**  
 30 DE LUEN AVE,  
 TINDALLS BEACH

DRAWING  
**REFLECTED CEILING PLAN L1**

SCALE AT A1  
**1:50**

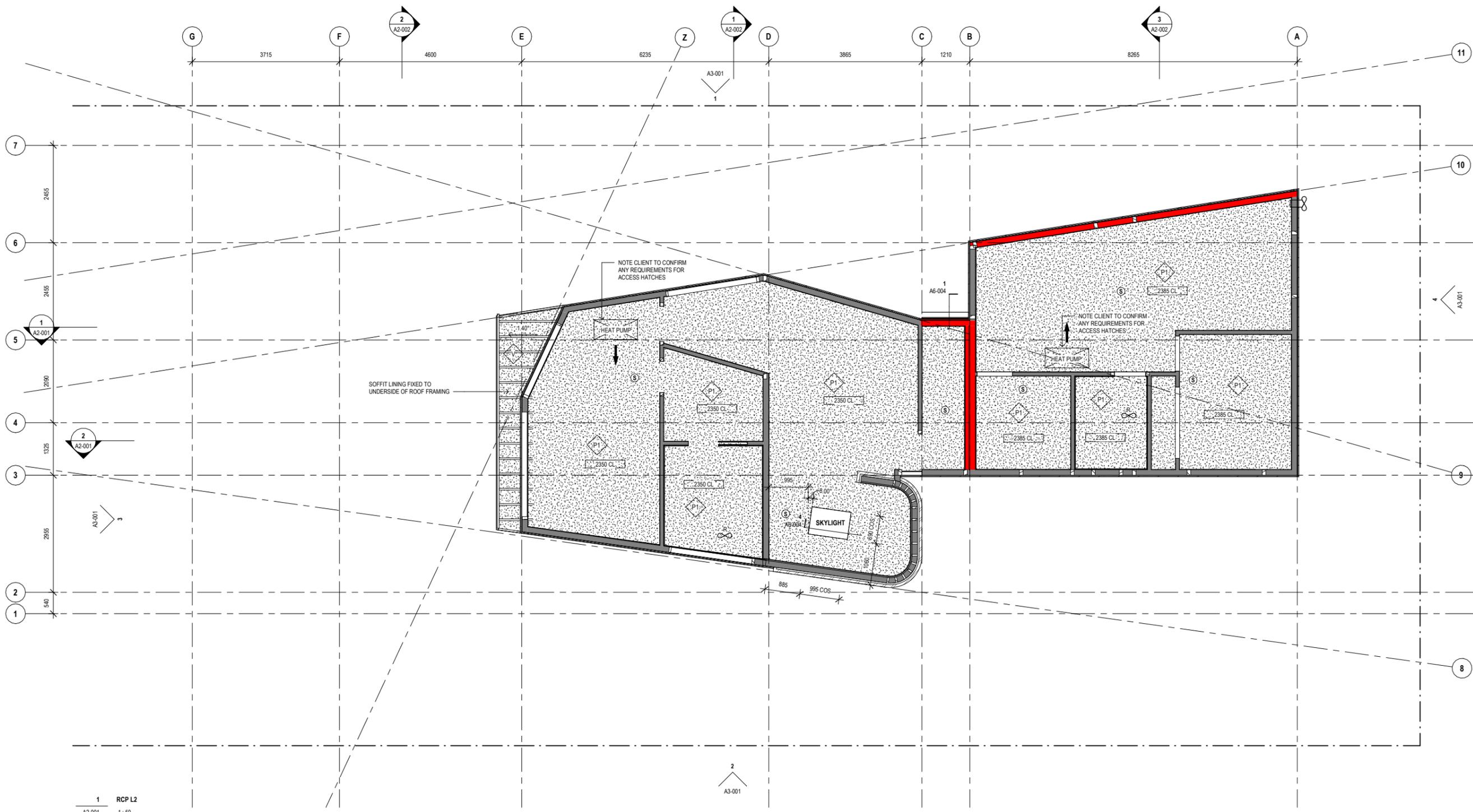
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**A1-013**

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**A**

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**PROJECT**  
MAHANA  
30 DE LUEN AVE,  
TINDALLS BEACH

**DRAWING**  
REFLECTED CEILING  
PLAN L2

SCALE AT A1  
1 : 50

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**A1-014**

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**A**

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**CEILING & SOFFIT FINISHES**

	<b>P1</b>	13mm GIB STANDARD PLASTERBOARD CEILING ON RONDO 310 BATTENS, DIRECT FIXED OR CLIP FIXED TO SUIT LOCATION. PAINT FINISH.
	<b>P2</b>	13mm GIB STANDARD PLASTERBOARD CEILING ON RONDO 308 BATTENS, CLIP FIXED OR SUSPENDED SYSTEM TO SUIT LOCATION. PAINT FINISH.
	<b>PF1</b>	GIB FIRE RATED CEILING SYSTEM <b>GBUC30</b> 16mm GIB FYRELINE ON RONDO 308 BATTENS, CLIP FIXED OR SUSPENDED SYSTEM TO SUIT LOCATION. PAINT FINISH.
	<b>PF2</b>	GIB FIRE RATED CEILING SYSTEM <b>GBUC30</b> 16mm GIB FYRELINE ON RONDO 310 BATTENS, CLIP FIXED. PAINT FINISH.

	<b>E</b>	EXPOSED FLOOR STRUCTURE (NO CEILING)
	<b>V</b>	6mm JH VILLABOARD WITH EXPRESSED JOINTS, PAINT FINISH ON 35mm TIMBER BATTENS
	<b>VF</b>	6mm JH VILLABOARD WITH EXPRESSED JOINTS AND PAINT FINISH ON 35mm TIMBER BATTENS ON GIB WEATHERLINE FIRE RATED SOFFIT SYSTEM <b>GWUC30</b> : 13mm GIB WEATHERLINE SYSTEM <b>GWUC30</b> : 13mm GIB WEATHERLINE SYSTEM

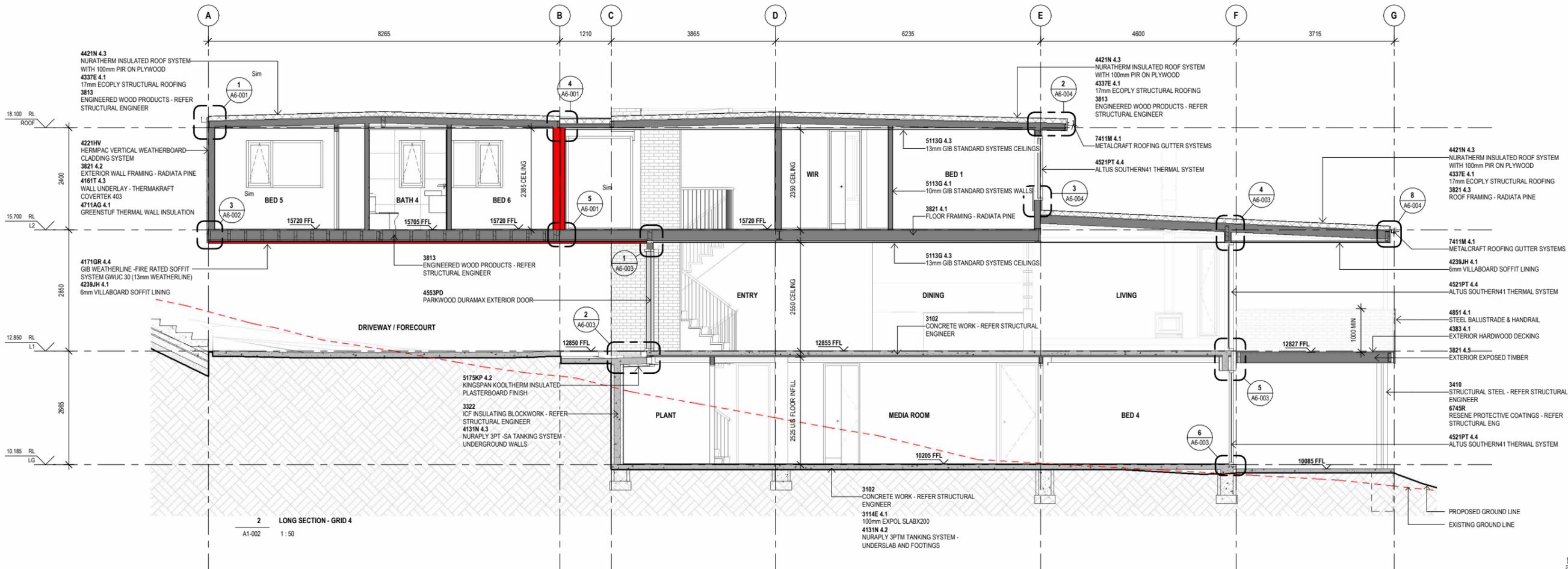
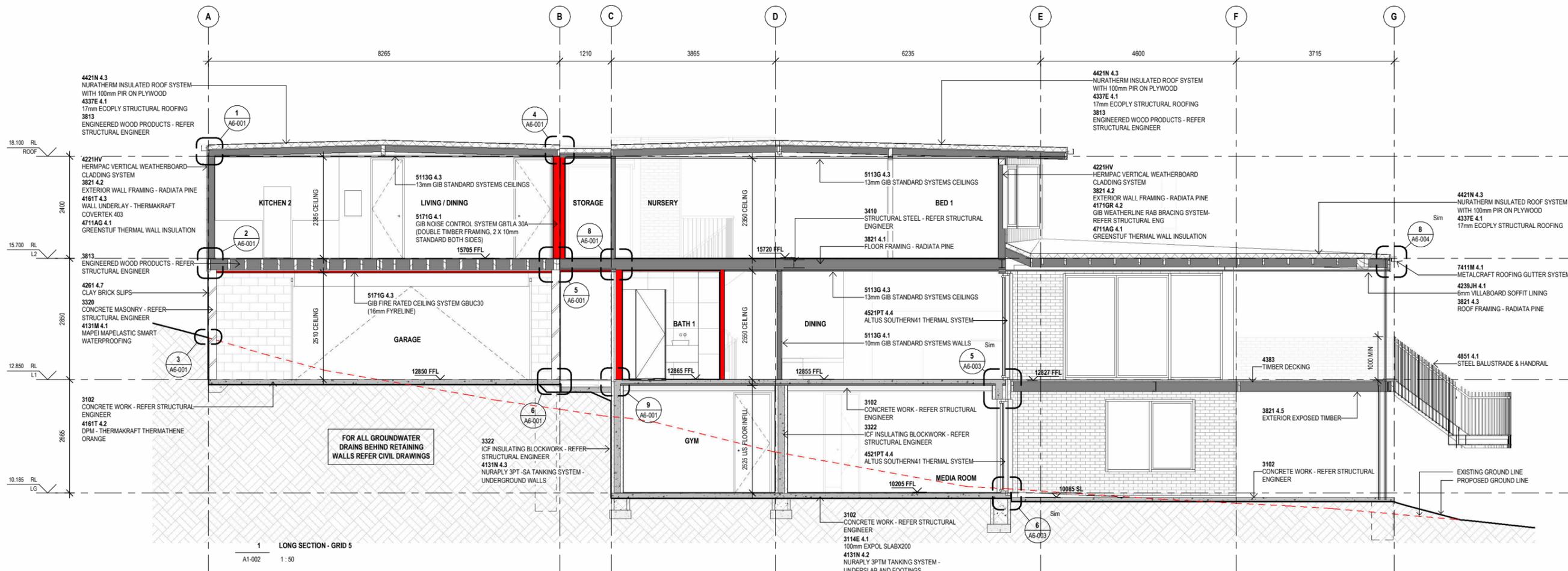
NOTE: ALLOW TO SUBSTITUTE GIB AQUALINE TO BATHROOMS

**SERVICES LEGEND**

GRAPHIC	DESCRIPTION
	INTERCONNECTED SMOKE DETECTOR (TYPE 1 INSTALLED TO NZBC F7)
	WALL EXTRACT FANS - IN BATHROOMS MIN. FLOWRATE 50 L/s - IN KITCHEN MIN. FLOWRATE 100 L/s
	ROOF EXTRACT FANS - IN BATHROOMS MIN. FLOWRATE 50 L/s - IN KITCHEN MIN. FLOWRATE 100 L/s

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11/02/2028 2:20:51 pm



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**DRAWING SECTIONS**

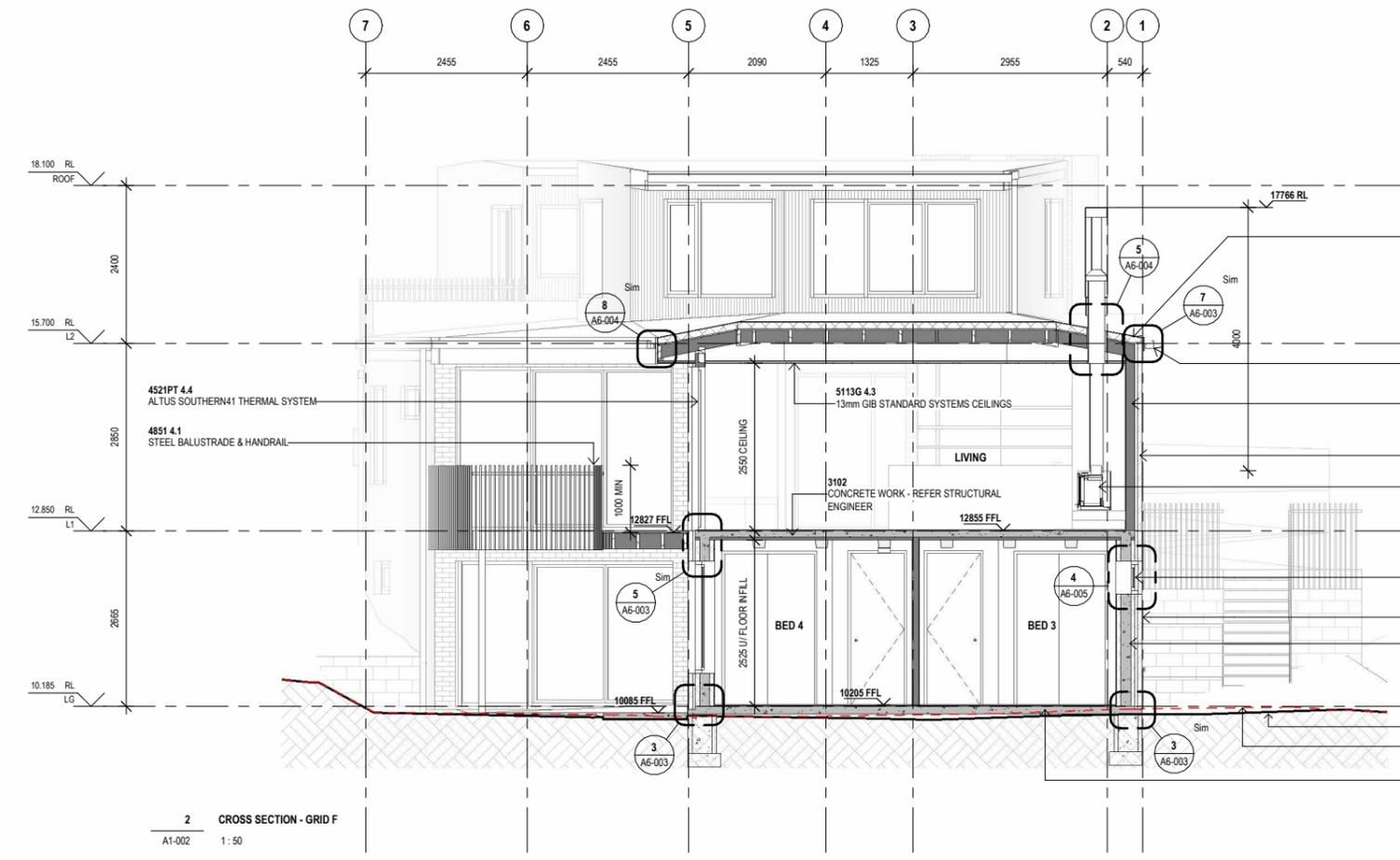
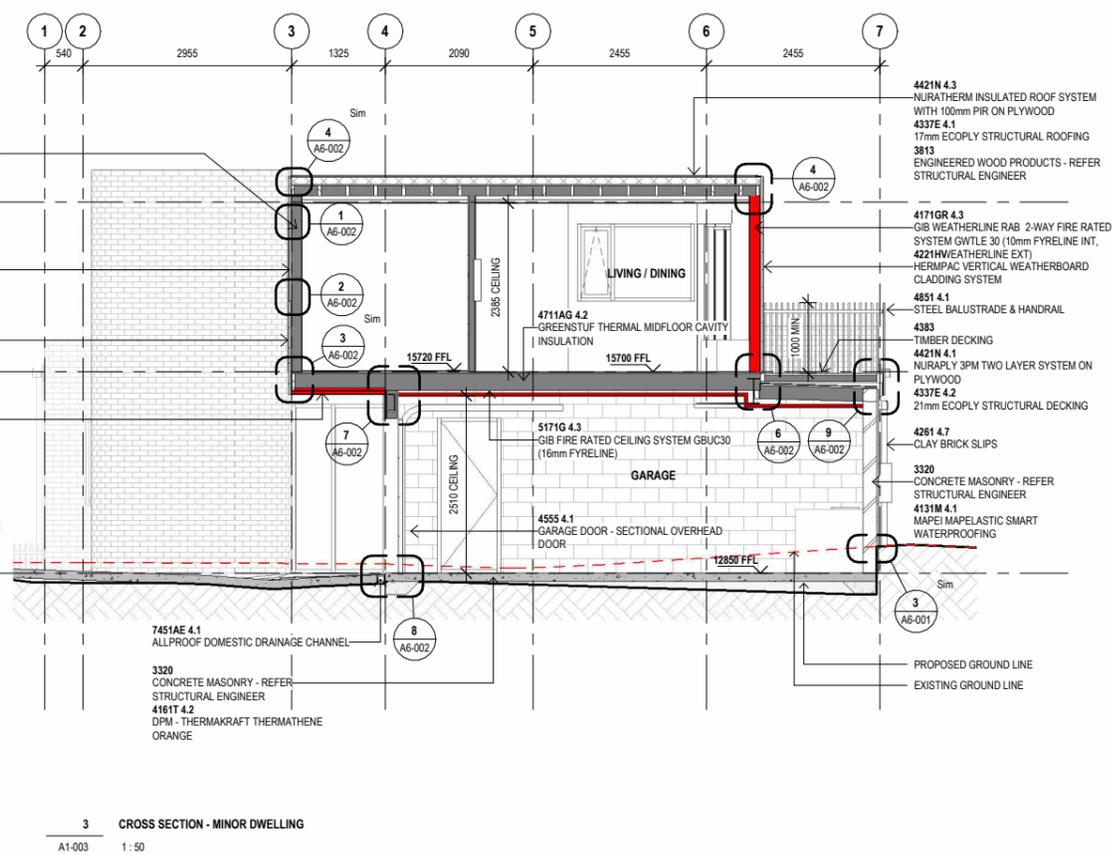
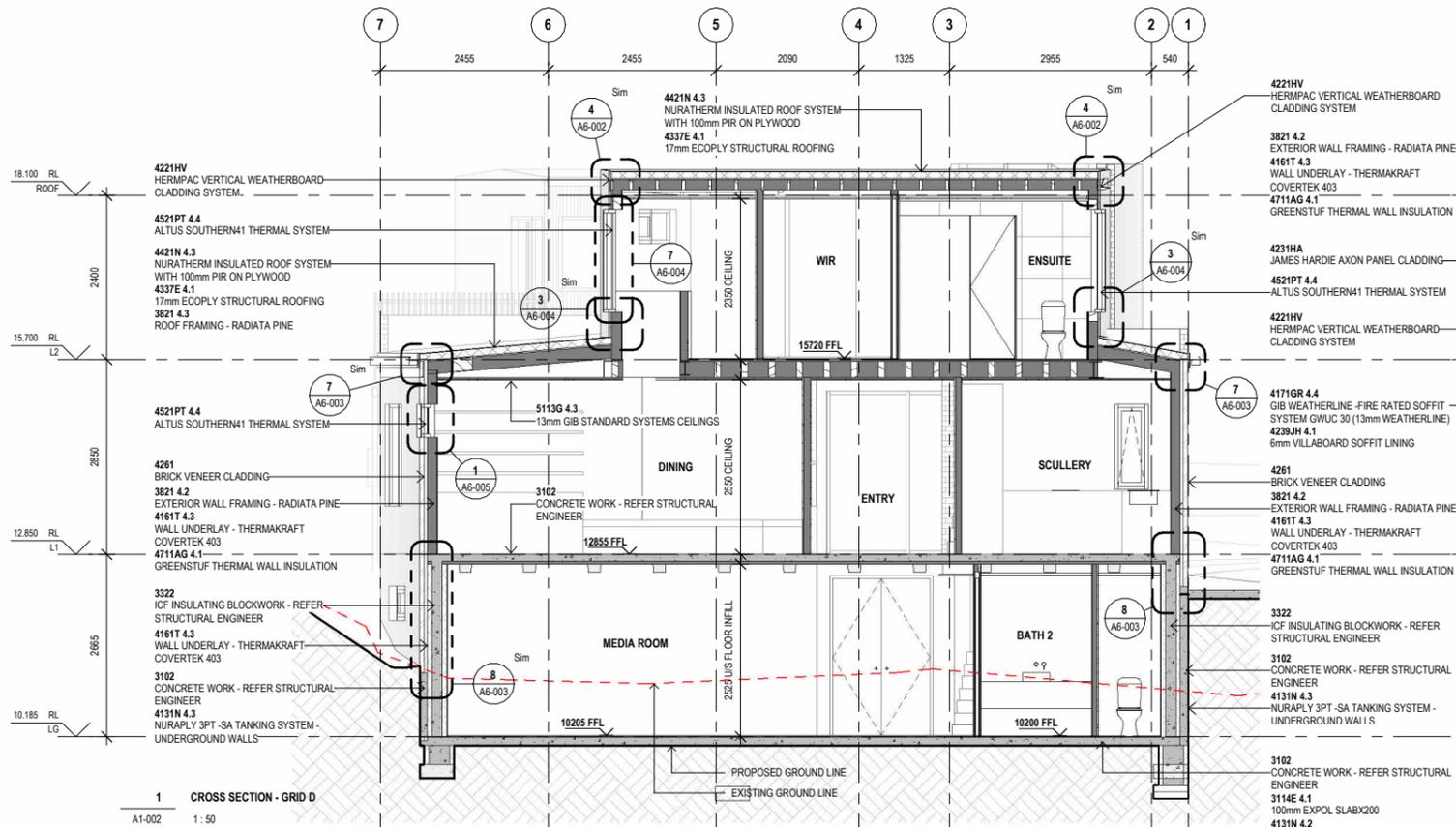
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30 DE LUEN AVE,  
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**DRAWING SECTIONS**

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**1:50**

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<b>A2-002</b>	<b>A</b>

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11/02/2028 2:21:10 pm

Risk Matrix for MAHANA NE ELEVATION					
Wall Type: Standard					
Risk Factor	Low	Med.	High	Very High	Score
Wind (NZS3604)	0	0	1	2	1
Storeys	0	1	2	4	4
R/W Intersection	0	1	3	5	1
Eaves Width	0	1	2	5	5
Complexity	0	1	3	6	3
Deck Design	0	2	4	6	4
Total Risk Score: high					18

Risk Matrix for MAHANA NW ELEVATION					
Wall Type: Standard					
Risk Factor	Low	Med.	High	Very High	Score
Wind (NZS3604)	0	0	1	2	1
Storeys	0	1	2	4	4
R/W Intersection	0	1	3	5	3
Eaves Width	0	1	2	5	5
Complexity	0	1	3	6	3
Deck Design	0	2	4	6	2
Total Risk Score: high					18

Risk Matrix for MAHANA SW ELEVATION					
Wall Type: Standard					
Risk Factor	Low	Med.	High	Very High	Score
Wind (NZS3604)	0	0	1	2	1
Storeys	0	1	2	4	2
R/W Intersection	0	1	3	5	3
Eaves Width	0	1	2	5	5
Complexity	0	1	3	6	3
Deck Design	0	2	4	6	2
Total Risk Score: high					16

Risk Matrix for MAHANA SE ELEVATION					
Wall Type: Standard					
Risk Factor	Low	Med.	High	Very High	Score
Wind (NZS3604)	0	0	1	2	1
Storeys	0	1	2	4	2
R/W Intersection	0	1	3	5	3
Eaves Width	0	1	2	5	5
Complexity	0	1	3	6	3
Deck Design	0	2	4	6	4
Total Risk Score: high					18

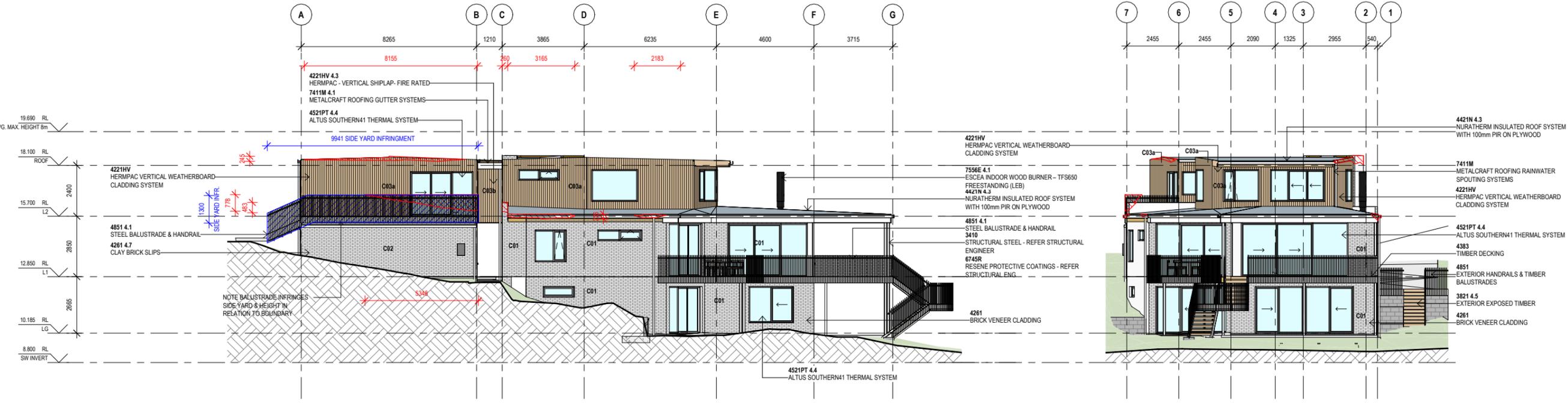
CLADDING TYPES	
C01	BRICK VENEER ON 40mm CAVITY
C02	BRICK SLIPS
C03a	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS
C03b	TIMBER VERTICAL SHIPLAP ON 20mm CAVITY BATTENS - TYPE A' NON-COMBUSTIBLE AS REQUIRED BY THE FIRE REPORT
C04	JAMES HARDIE AXON PANEL SMOOTH ON 20mm CAVITY BATTENS

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**1 NE BOUNDARY ELEVATION**  
A1-002 1:100

**3 NW BOUNDARY ELEVATION**  
A1-002 1:100

**2 SW BOUNDARY ELEVATION**  
A1-002 1:100

**4 SE BOUNDARY ELEVATION**  
A1-003 1:100

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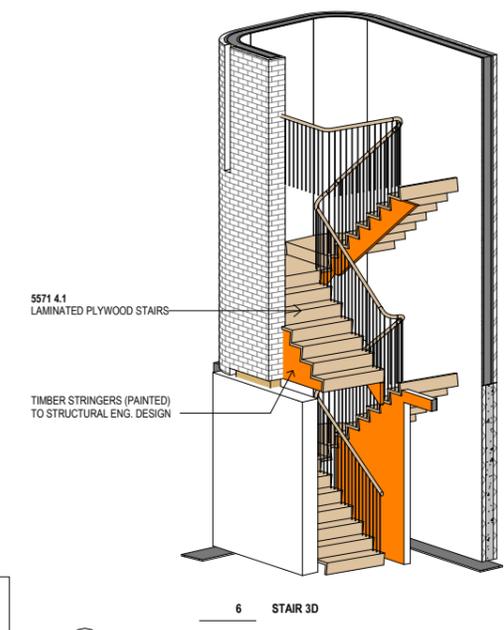
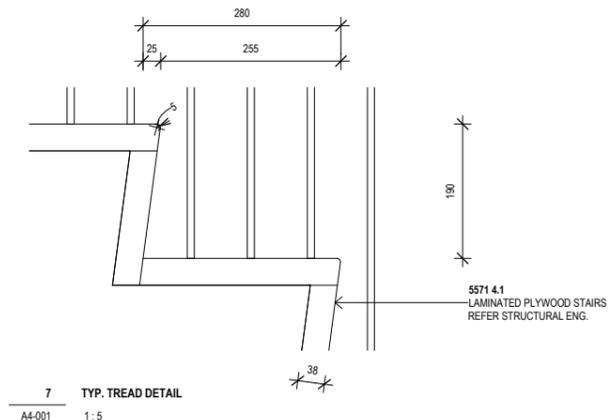
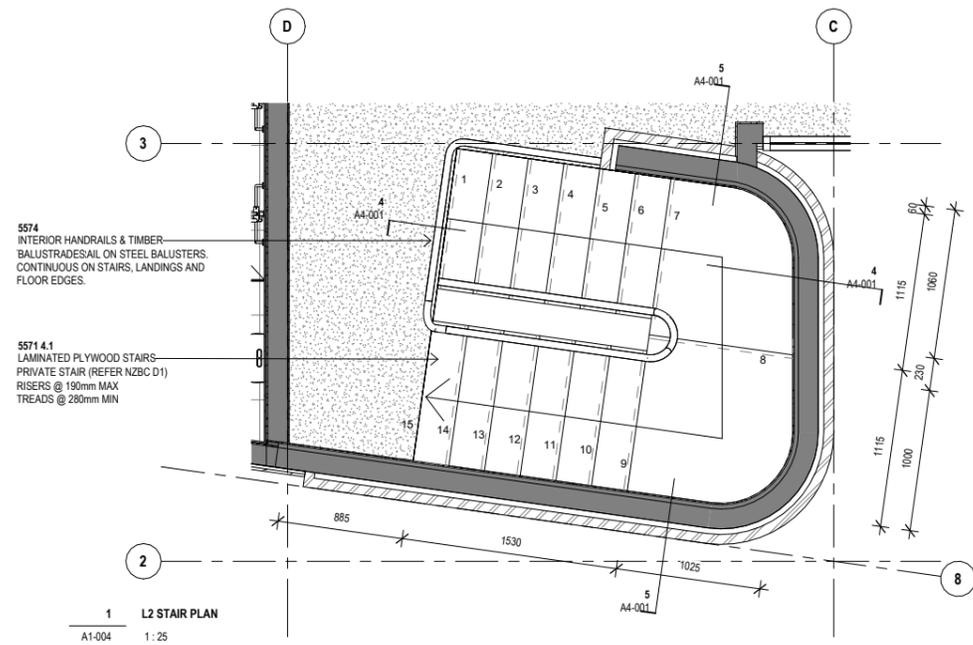
**PROJECT**  
MAHANA  
30 DE LUEN AVE,  
TINDALLS BEACH

**DRAWING ELEVATIONS**

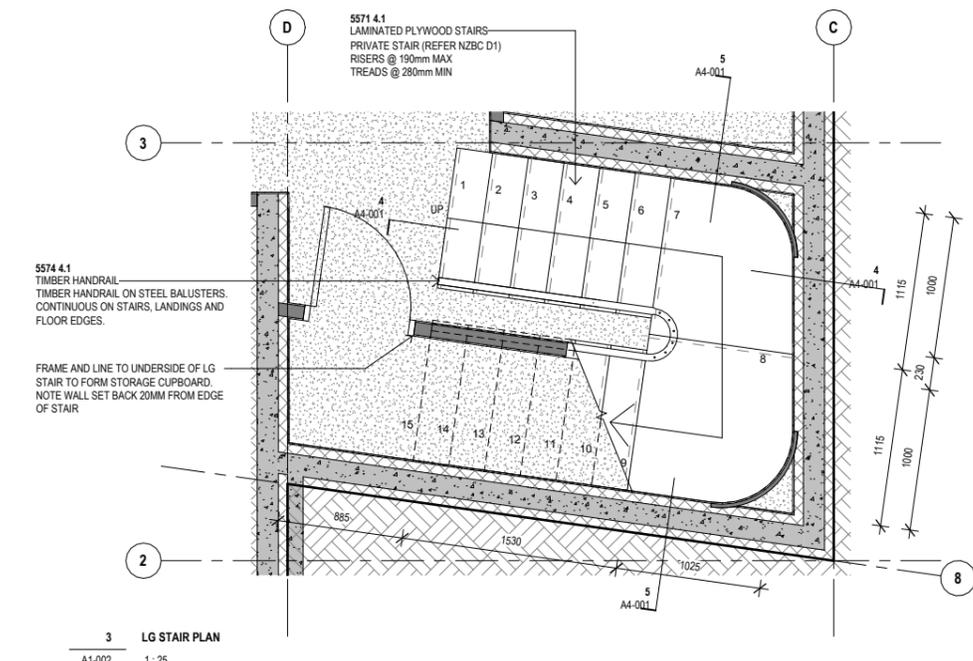
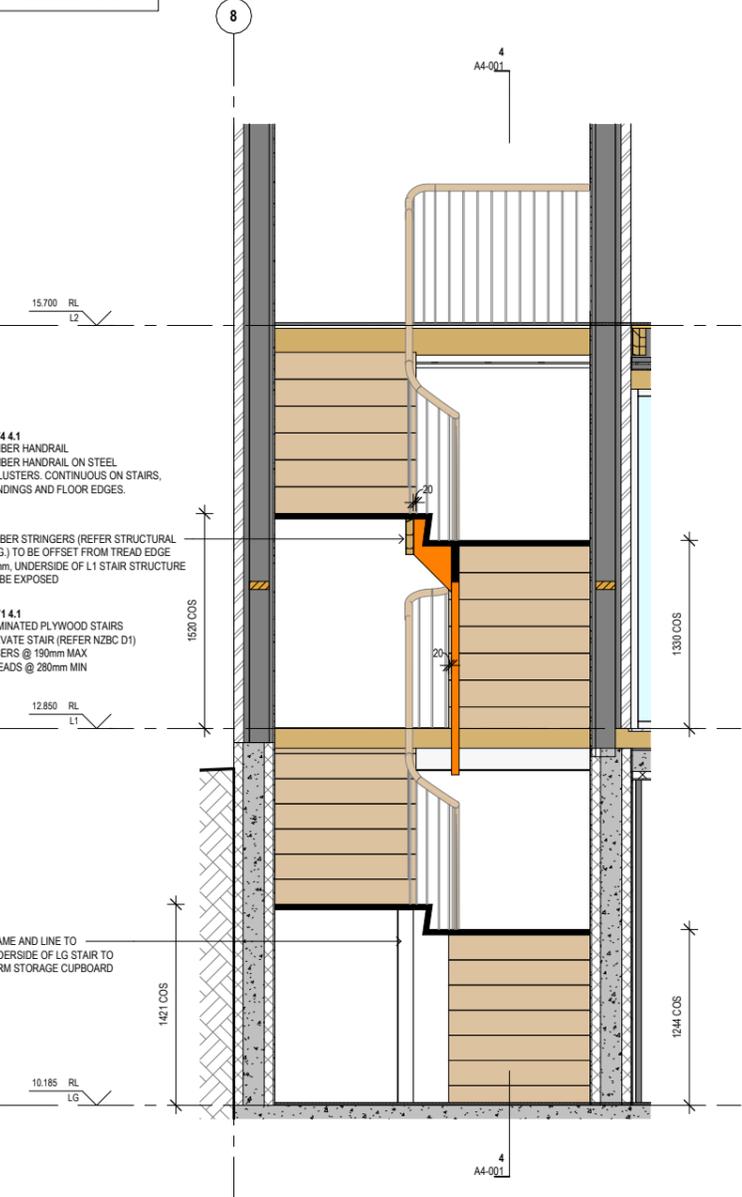
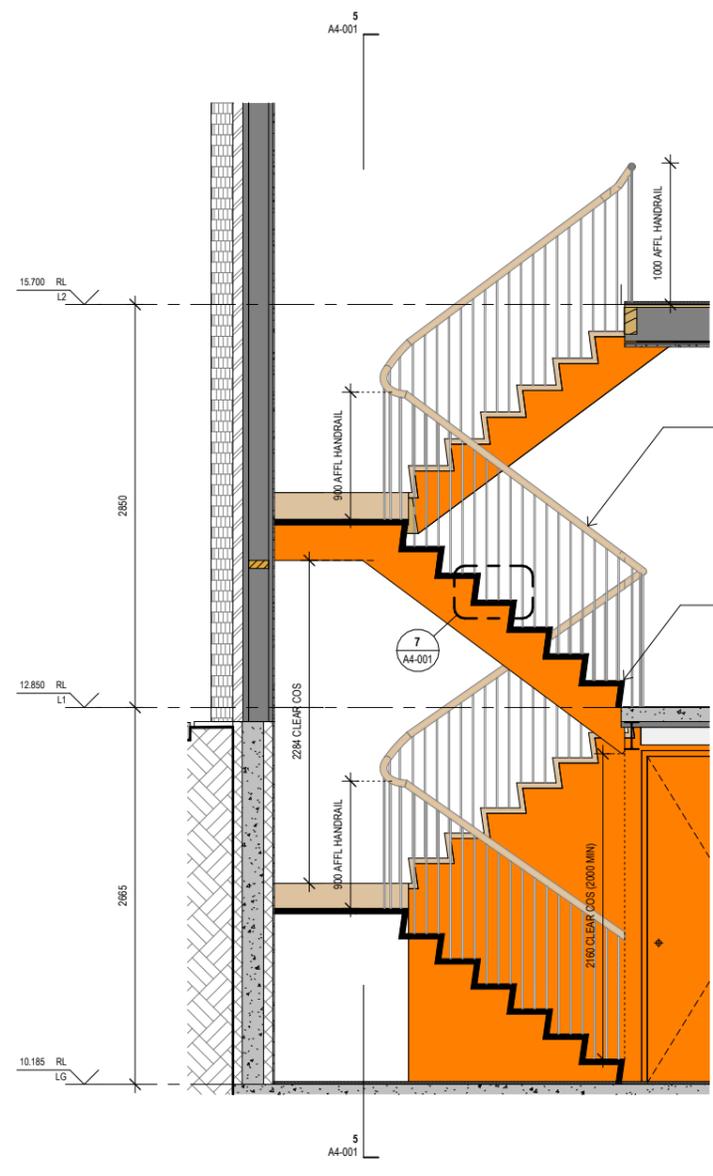
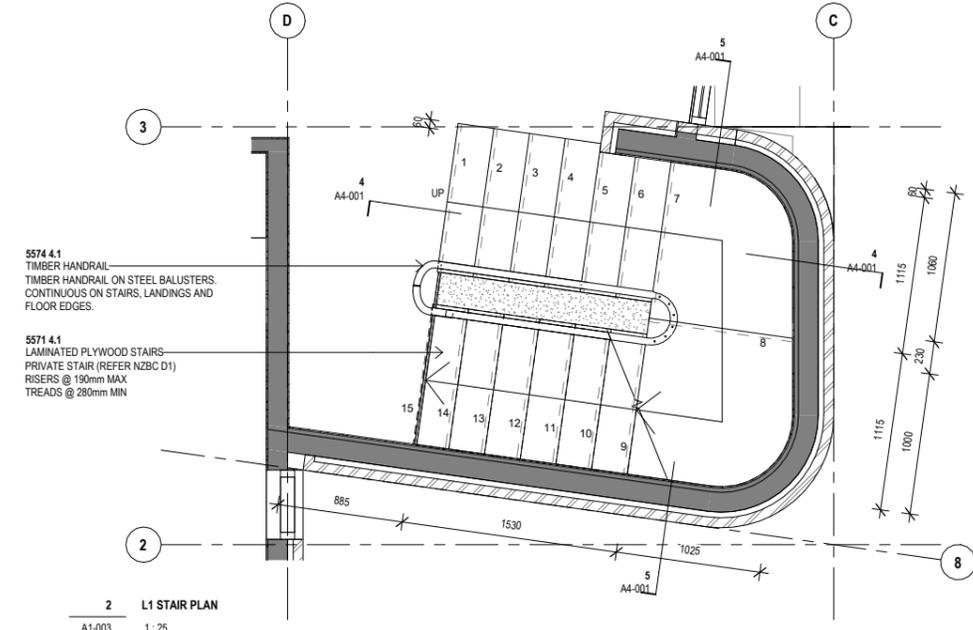
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**NOTE: SHOP DRAWINGS FROM STAIR FABRICATOR REQUIRED FOR REVIEW PRIOR TO FABRICATION**



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**PROJECT**

MAHANA  
30 DE LUEN AVE,  
TINDALLS BEACH

**DRAWING**

INTERIOR STAIRS

SCALE AT A1  
As indicated

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**BUILDING CONSENT**

EXTERIOR WINDOW JOINERY SCHEDULE						
FRAME NO.	LOCATION	JOINERY SUITE	JOINERY FINISH	GLAZING / DOOR TYPE	HARDWARE	COMMENTS
LG						
W0-01	BATH 3	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING, ETCHLITE FINISH FOR PRIVACY		
W0-03	MEDIA ROOM	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W0-04	BED 4	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W0-05	BED 4	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W0-06	BED 3	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W0-07	BED 3	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W0-08	LAUNDRY	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W0-09	BATH 2 (SHOWER)	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING, ETCHLITE FINISH FOR PRIVACY		
L1						
W1-01	BED 2	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		PROVIDE WINDOW OPENING RESTRICTORS
W1-02	DINING	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W1-03	DINING	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W1-04	LIVING	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W1-05	LIVING	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W1-06	LIVING	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		PROVIDE WINDOW OPENING RESTRICTORS
W1-07	SCULLERY	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		PROVIDE WINDOW OPENING RESTRICTORS
W1-08	ENTRY	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	SOLID CORE TIMBER DOOR TBC, PAINT FINISH TBC		
W1-09	BATH 1	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING, ETCHLITE FINISH FOR PRIVACY		
W1-10	GARAGE	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W1-11	GARAGE	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
L2						
W2-01	NURSERY	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W2-02	VOID	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W2-03	BED 1	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		PROVIDE WINDOW OPENING RESTRICTORS
W2-04	BED 1	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		NOTE BALUSTRADE TO INSIDE REFER DETAILS
W2-05	ENSUITE	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING, ETCHLITE FINISH FOR PRIVACY		PROVIDE WINDOW OPENING RESTRICTORS
W2-06	LINK	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W2-07	BED 6	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		PROVIDE WINDOW OPENING RESTRICTORS
W2-08	BATH 4	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		PROVIDE WINDOW OPENING RESTRICTORS
W2-09	BED 5	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		PROVIDE WINDOW OPENING RESTRICTORS
W2-10	KITCHEN 2	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		PROVIDE WINDOW OPENING RESTRICTORS
W2-11	LIVING / DINING	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		
W2-12	LIVING / DINING	ALTUS SOUTHERN 41 THERMAL	POWDERCOATED, COLOUR TBC	LOW-E DOUBLE GLAZING		

NOTE JOINERY COLOURS VARY DEPENDING ON CLADDINGS- ARCHITECT TO CONFIRM

DOOR SCHEDULE									
DOOR NO.	LOCATION	INTERIOR / EXTERIOR	DOOR TYPE	LEAF WIDTH	LEAF FINISH	DOOR FRAME CONSTRUCTION	FRAME FINISH	COMMENTS	
LG									
D0-01	BED 4	INTERIOR	TIMBER, SINGLE HINGED DOOR	810	PAINTED TIMBER	TIMBER	PAINTED		
D0-02	BED 4	INTERIOR	WARDROBE SLIDING DOORSET	2x 710	PAINTED TIMBER	TIMBER	PAINTED		
D0-03	BED 3	INTERIOR	TIMBER, SINGLE HINGED DOOR	810	PAINTED TIMBER	TIMBER	PAINTED		
D0-04	BED 3	INTERIOR	WARDROBE SLIDING DOORSET	2x 710	PAINTED TIMBER	TIMBER	PAINTED		
D0-05	LAUNDRY	INTERIOR	TIMBER, SINGLE HINGED DOOR	810	PAINTED TIMBER	TIMBER	PAINTED		
D0-06	BATH 2	INTERIOR	TIMBER CAVITY SLIDER	810	PAINTED TIMBER	TIMBER	PAINTED		
D0-07	BATH 2 (SHOWER)	INTERIOR	TIMBER, SINGLE HINGED DOOR	710	PAINTED TIMBER	TIMBER	PAINTED		
D0-08	BATH 2 (WC)	INTERIOR	TIMBER, SINGLE HINGED DOOR	710	PAINTED TIMBER	TIMBER	PAINTED		
D0-09	UNDER STAIR	INTERIOR	TIMBER, SINGLE HINGED DOOR	710	PAINTED TIMBER	TIMBER	PAINTED		
D0-10	PLANT	INTERIOR	TIMBER, DOUBLE HINGED DOORS	2x 710	PAINTED TIMBER	TIMBER	PAINTED		
D0-11	GYM	INTERIOR	TIMBER, SINGLE HINGED DOOR	810	PAINTED TIMBER	TIMBER	PAINTED		
D0-12	BATH 3	INTERIOR	TIMBER, SINGLE HINGED DOOR	810	PAINTED TIMBER	TIMBER	PAINTED		
L1									
D1-01	BATH 1	INTERIOR	TIMBER, SINGLE HINGED DOOR	710	PAINTED TIMBER	TIMBER	PAINTED		
D1-02	BED 2	INTERIOR	TIMBER, SINGLE HINGED DOOR	810	PAINTED TIMBER	TIMBER	PAINTED		
D1-03	BED 2	INTERIOR	WARDROBE SLIDING DOORSET	2x 810	PAINTED TIMBER	TIMBER	PAINTED		
D1-04	GARAGE	EXTERIOR	DOMINATOR GARAGE DOOR, STYLE TBC ARCHITECT	5500	TBC	N/A - REFER DETAILS			
L2									
D2-01	BED 1	INTERIOR	TIMBER, SINGLE HINGED DOOR	810	PAINTED TIMBER	TIMBER	PAINTED		
D2-02	WIR	INTERIOR	TIMBER, SINGLE HINGED DOOR	710	PAINTED TIMBER	TIMBER	PAINTED		
D2-03	ENSUITE	INTERIOR	TIMBER CAVITY SLIDER	710	PAINTED TIMBER	TIMBER	PAINTED		
D2-05	BED 6	INTERIOR	TIMBER, SINGLE HINGED DOOR	810	PAINTED TIMBER	TIMBER	PAINTED		
D2-06	BATH 4	INTERIOR	TIMBER, SINGLE HINGED DOOR	710	PAINTED TIMBER	TIMBER	PAINTED		
D2-07	BED 5	INTERIOR	TIMBER, SINGLE HINGED DOOR	810	PAINTED TIMBER	TIMBER	PAINTED		
D2-08	BED 5	INTERIOR	WARDROBE SLIDING DOORSET	2x 910	PAINTED TIMBER	TIMBER	PAINTED		

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- HARDWARE TO BE CONFIRMED.
- LOCKING BY ALUMINIUM JOINER.
- ALL ALUMINIUM BEADS TO BE SQUARE OR FLAT.
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DRAWING  
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SCHEDULES

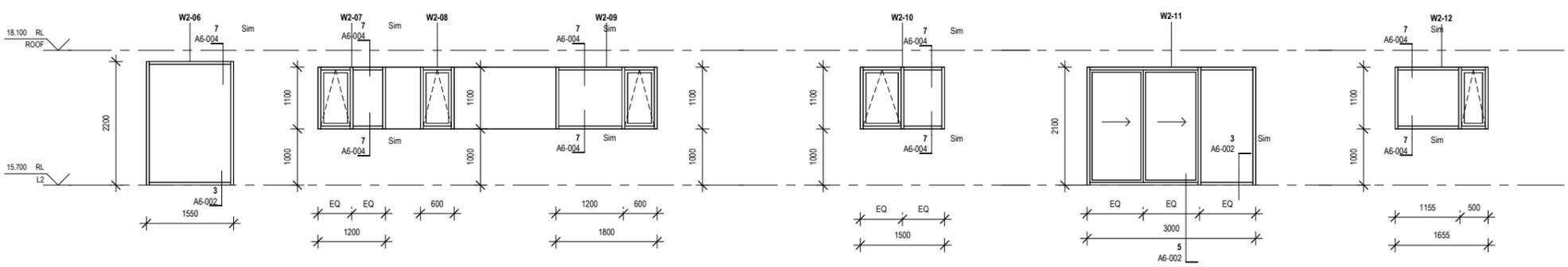
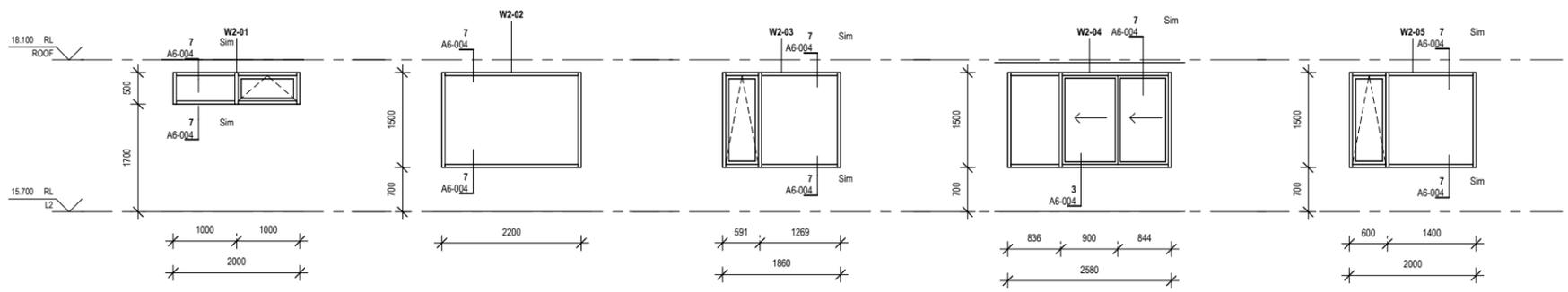
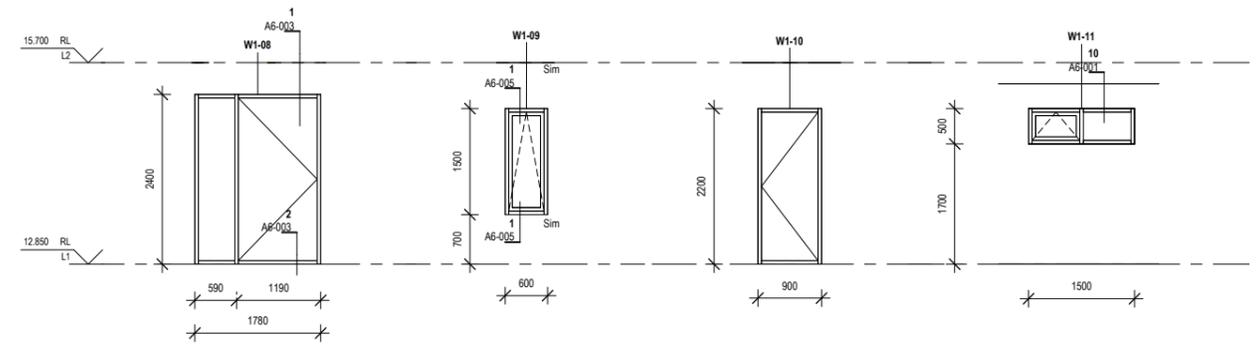
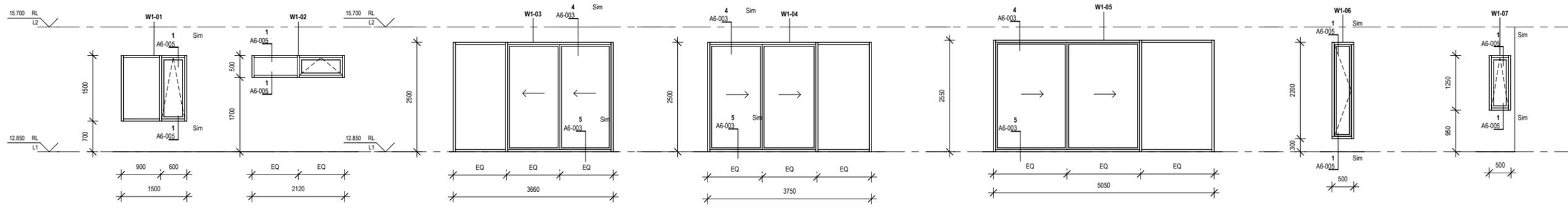
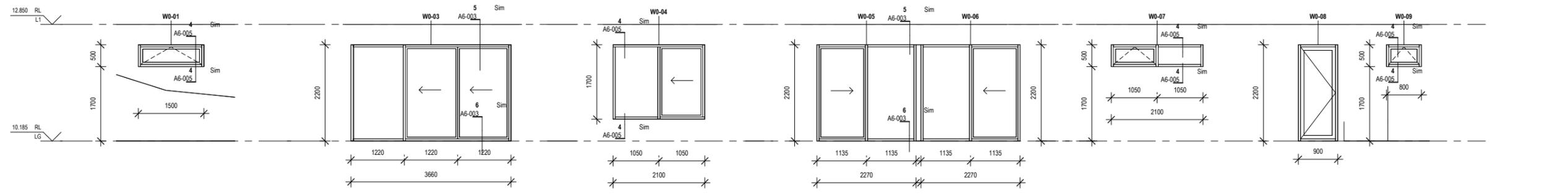
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FIRE - ORIGIN FIRE CONSULTANTS

**PROJECT**  
MAHANA  
30 DE LUEN AVE,  
TINDALLS BEACH

**DRAWING**  
EXTERIOR WINDOW  
ELEVATIONS

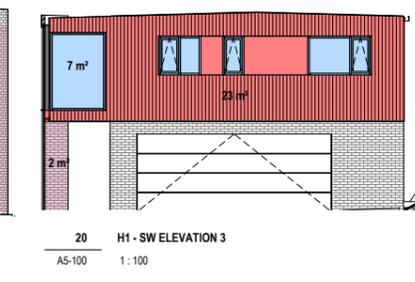
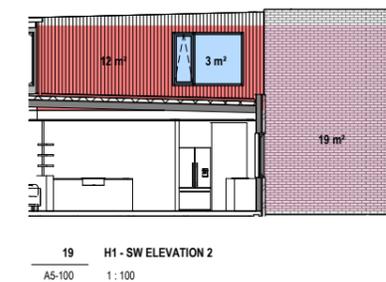
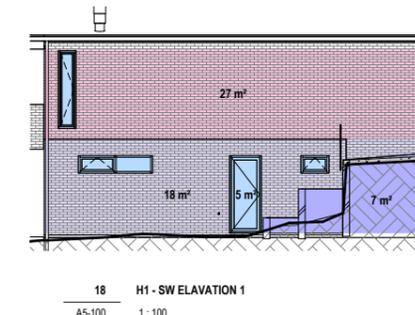
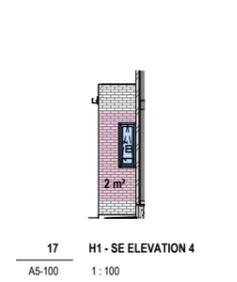
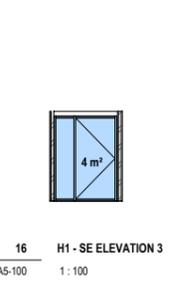
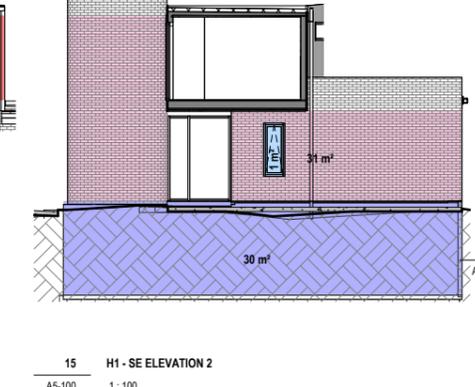
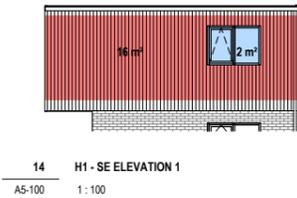
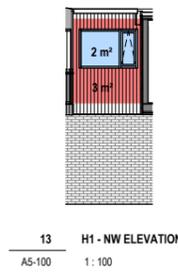
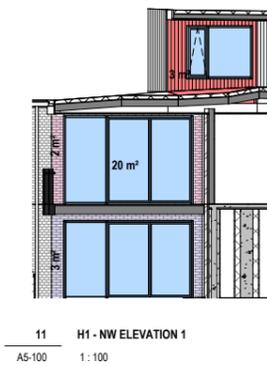
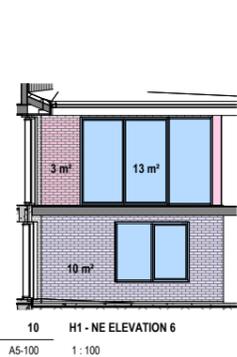
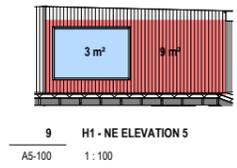
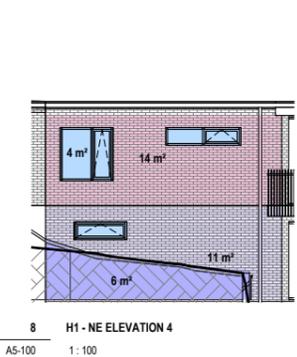
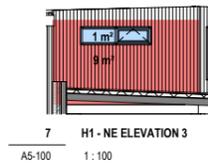
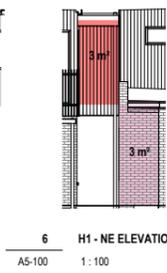
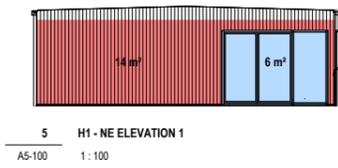
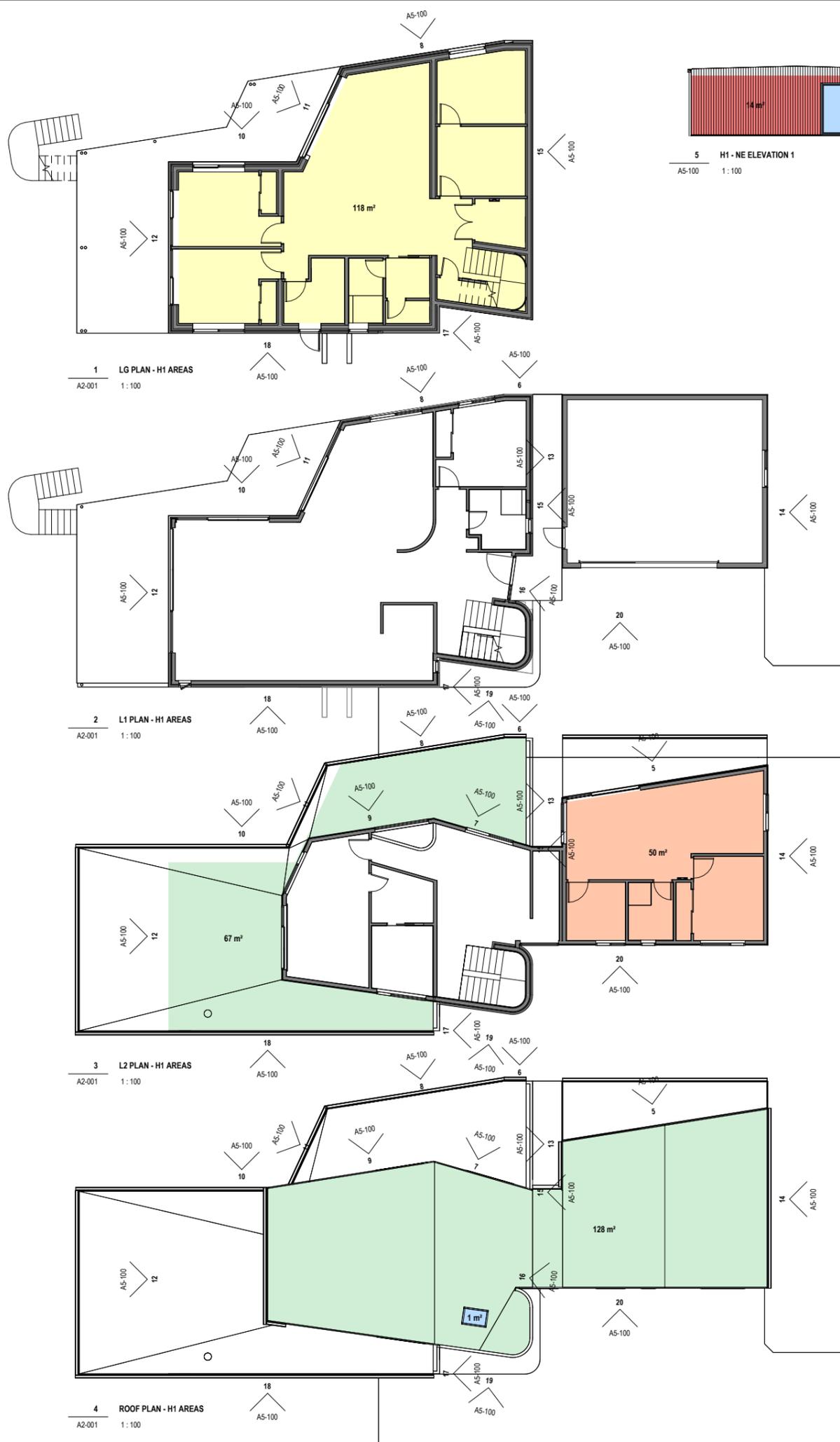
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**BUILDING CONSENT**

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**NOTES**

H1 CLIMATE ZONE: ZONE 1  
 COMPLIANCE METHOD: CALCULATION METHOD  
 TOTAL WALL AREA: 293 m² (75%)  
 TOTAL GLAZING AREA: 95 m² (25%)  
 TOTAL WALL ENVELOPE AREA: 388 m²  
 REFER TO AUTEX H1 REPORT, CALCULATIONS & SPECIFICATION FOR H1 COMPLIANCE.

**H1 LEGEND**

KEY	CONSTRUCTION TYPE	AREA
[Yellow]	120mm CONCRETE FLOOR SLAB WITH EXPOL SLABX200 100mm R3.0 UNDERSLAB INSULATION	118 m²
[Orange]	240mm HYPAN FLOOR FRAMING WITH GREENSTUF THERMAL 140mm R2.9 UNDERFLOOR BLANKET	50 m²
[Green]	150mm TIMBER ROOF FRAMING WITH NURALITE 2-LAYER MEMBRANE WARM ROOF 100mm R4.6 PIR	196 m²
[Light Blue]	VELUX VCS 2234 SKYLIGHT R0.393	1 m²
[Blue]	DOUBLE GLAZED LOW-E IGU IN THERMALLY BROKEN ALUMINIUM FRAME	95 m²
[Purple]	280mm R4.0 MEGAFORM ICF RETAINING WALLS	43 m²
[Light Purple]	280mm R4.0 MEGAFORM ICF WALLS WITH BRICK VENEER CLADDING	50 m²
[Pink]	140mm TIMBER FRAMING WITH GREENSTUF THERMAL 140mm R3.2 WALL INSULATION WITH BRICK VENEER CLADDING	108 m²
[Red]	140mm TIMBER FRAMING WITH GREENSTUF THERMAL 140mm R3.2 WALL INSULATION WITH TIMBER OR FIBRE CEMENT BOARD CLADDINGS	92 m²

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**REVISIONS**

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A	11/02/2028	BUILDING CONSENT

**DRAWING TO BE PRINTED & READ IN COLOUR**

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 mail@bossleyarchitects.co.nz

**CONSULTANTS**  
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 FIRE - ORIGIN FIRE CONSULTANTS

**PROJECT**  
 MAHANA  
 30 DE LUEN AVE,  
 TINDALLS BEACH

**DRAWING**  
 H1 AREAS

SCALE AT A1  
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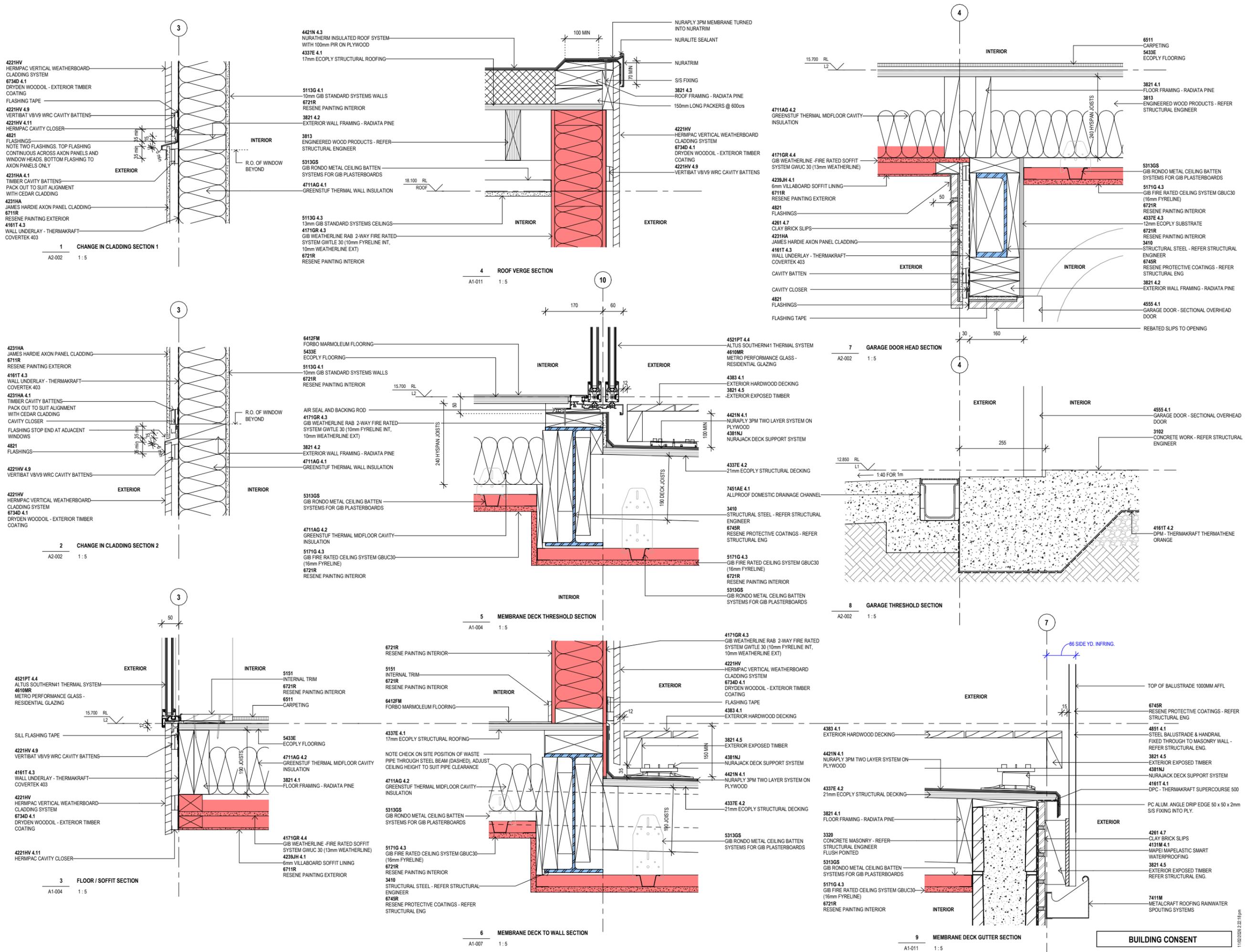
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MAHANA  
30 DE LUEN AVE,  
TINDALLS BEACH

**DRAWING**  
DETAILS - EXTERNAL ENVELOPE

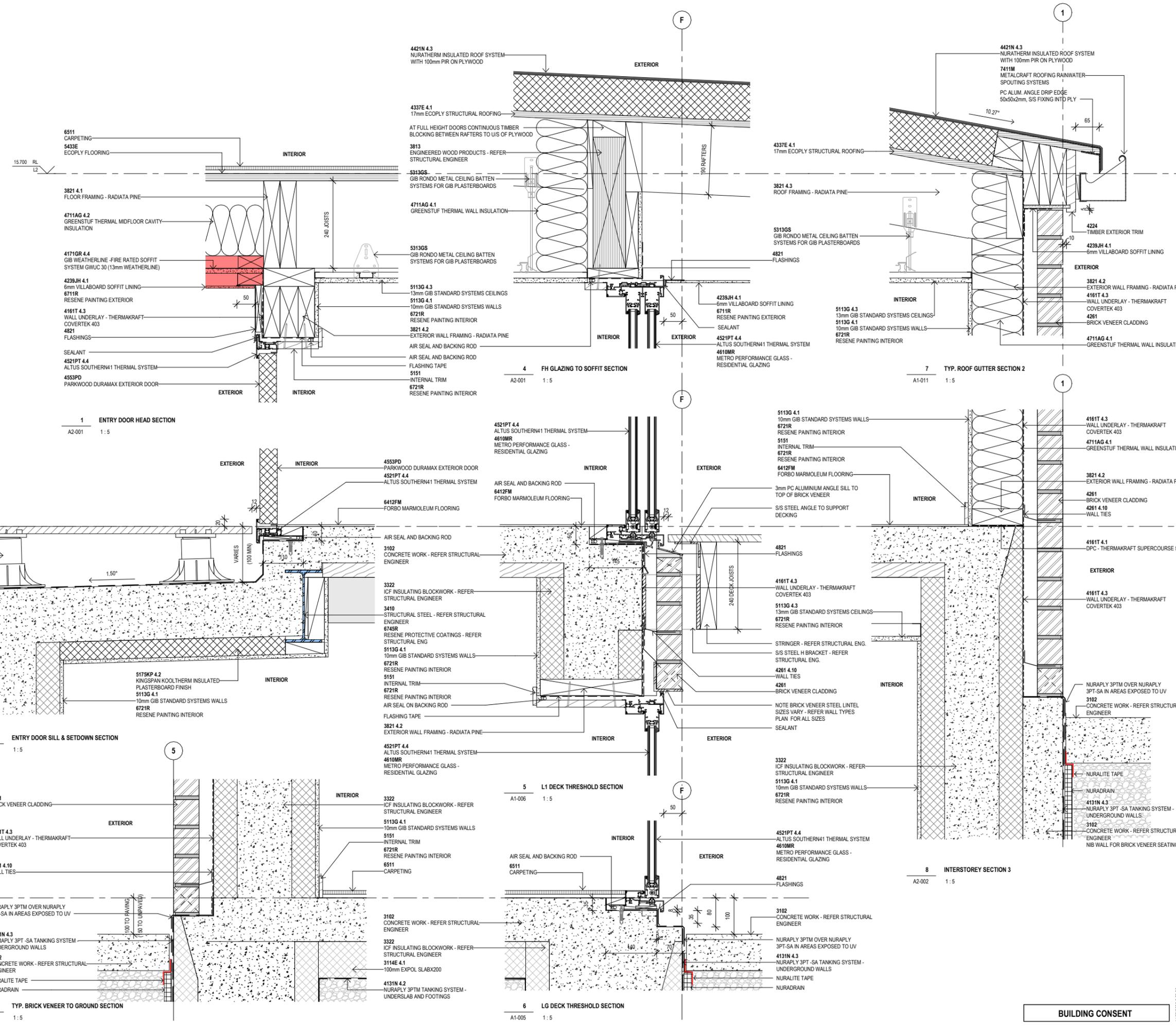
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**PROJECT**  
MAHANA  
30 DE LUEN AVE,  
TINDALLS BEACH

**DRAWING**  
DETAILS - EXTERNAL  
ENVELOPE

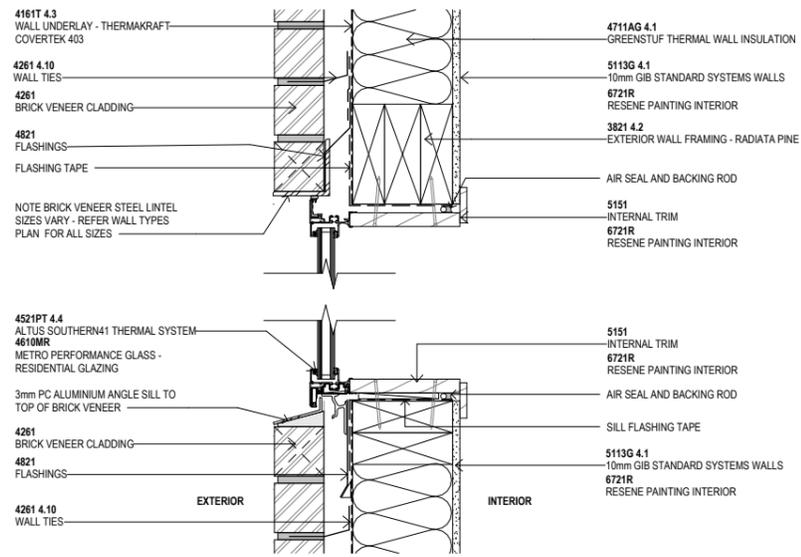
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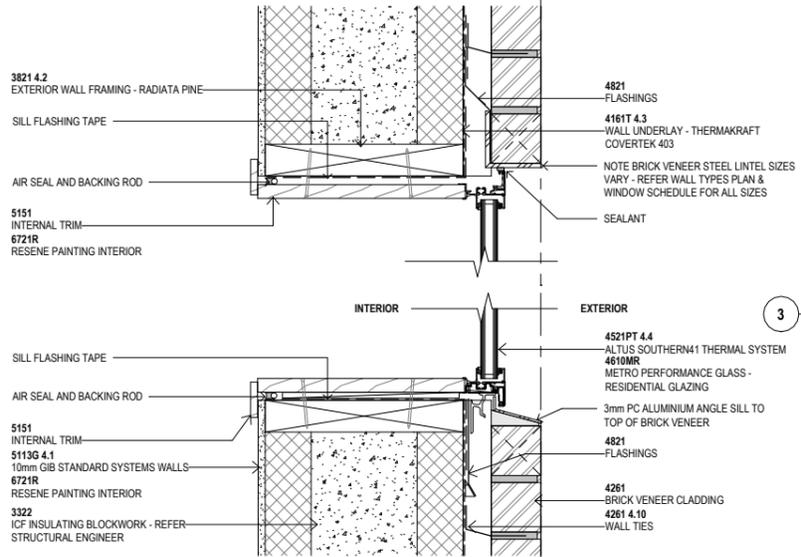
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**BUILDING CONSENT**

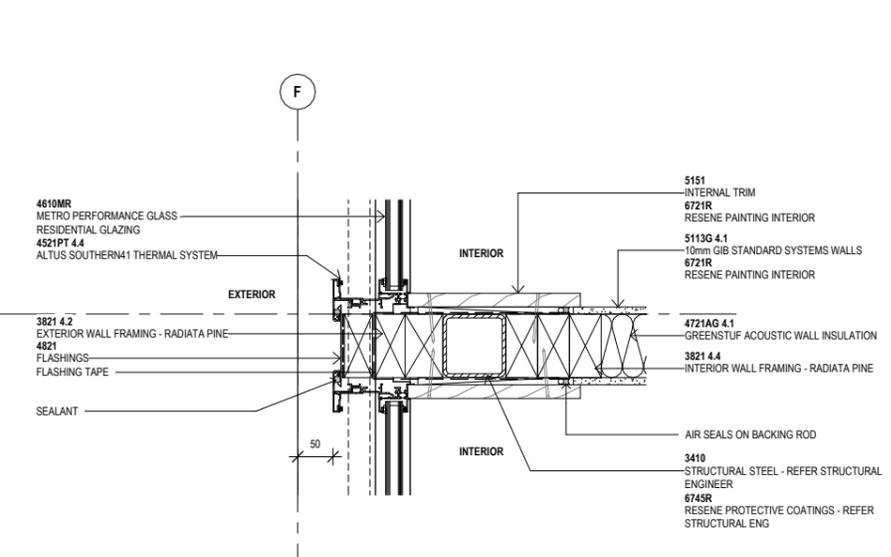




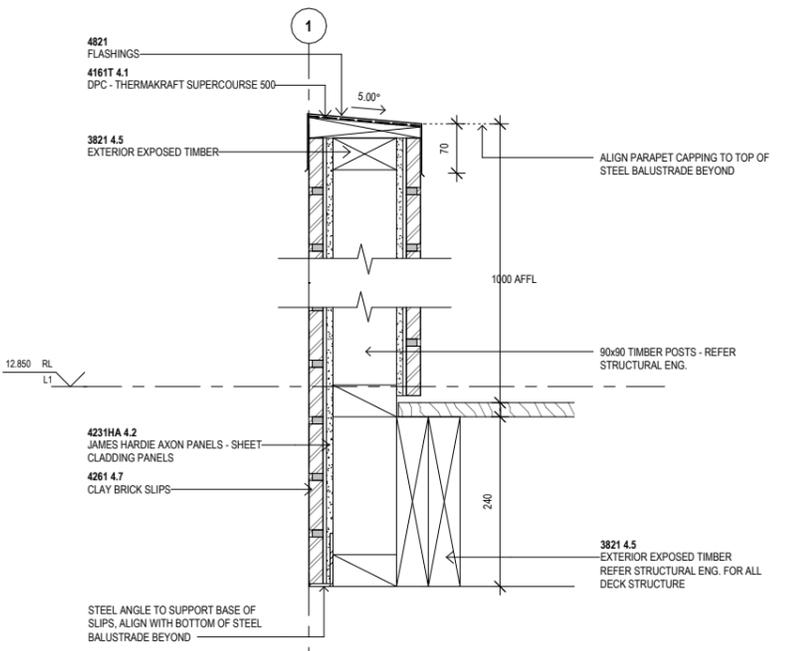
1 TYP. L1 BRICK VENEER WINDOW HEAD & SILL SECTION  
A2-002 1:5



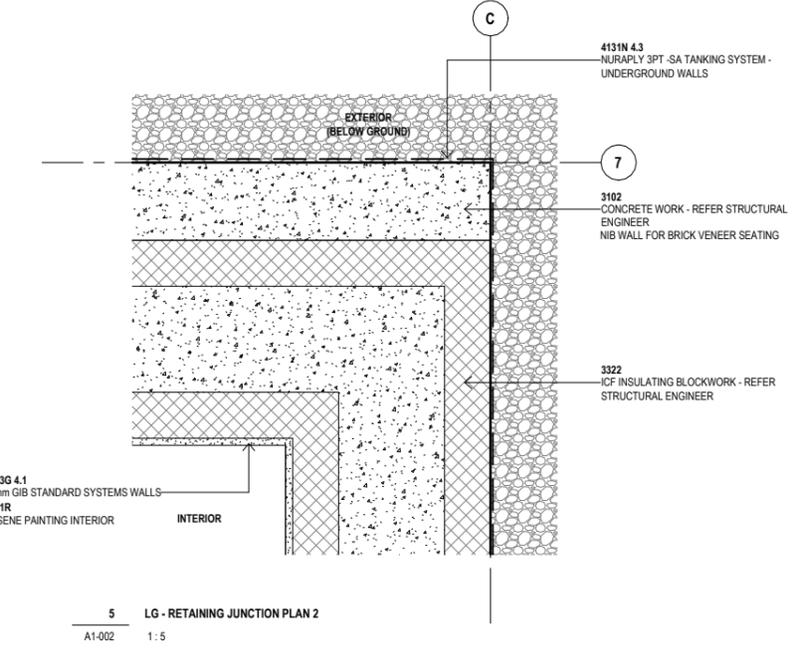
4 TYP. LG BRICK VENEER WINDOW HEAD & SILL SECTION  
A2-002 1:5



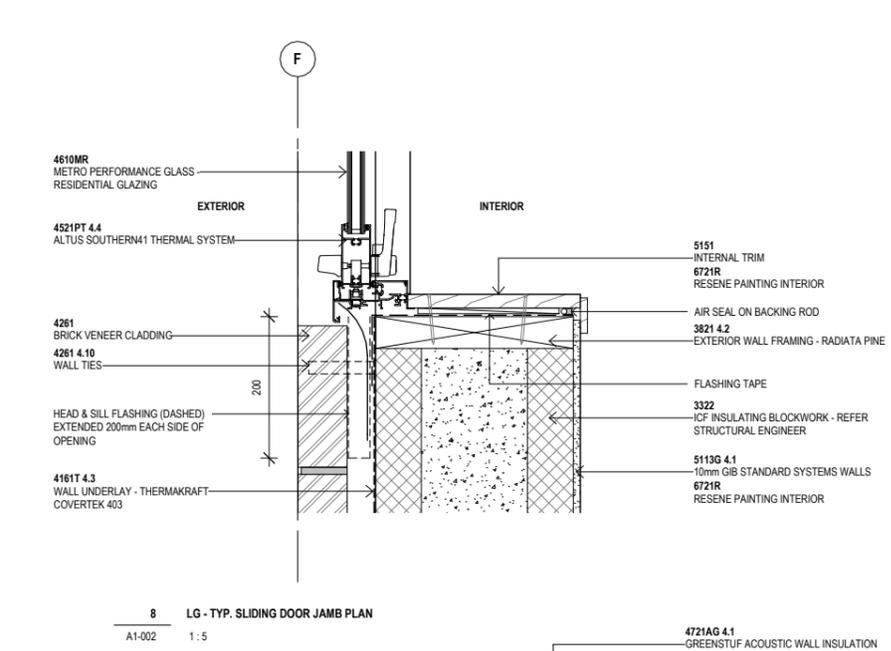
7 LG - SLIDING DOOR JAMBS PLAN  
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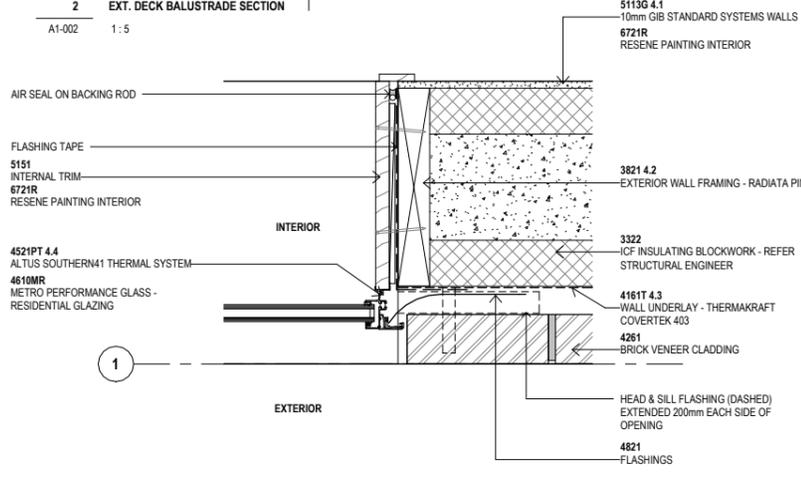
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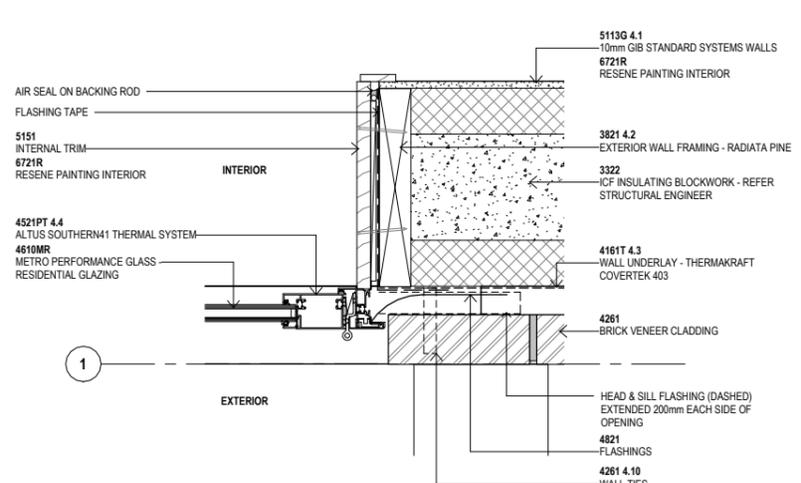
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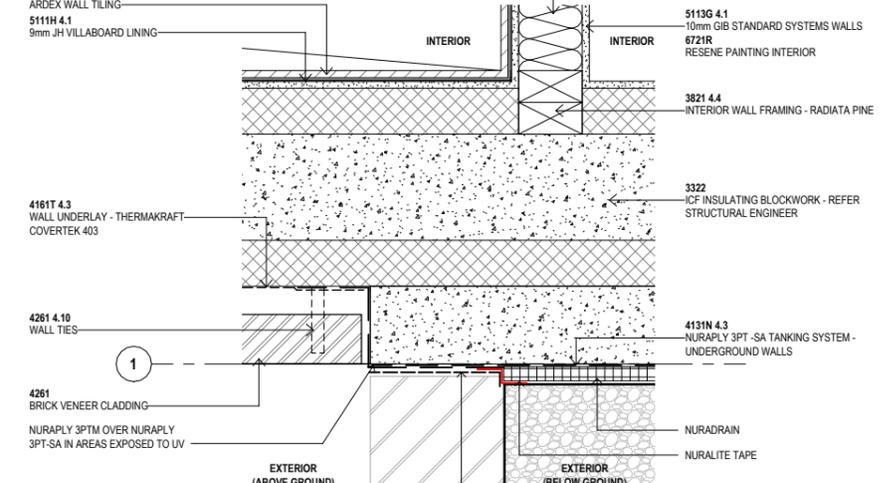
8 LG - TYP. SLIDING DOOR JAMB PLAN  
A1-002 1:5



3 LG - TYP. WINDOW JAMB PLAN  
A1-002 1:5



6 LG - EXT. DOOR JAMB PLAN  
A1-002 1:5



9 LG - RETAINING JUNCTION PLAN 1  
A1-002 1:5

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PROJECT  
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30 DE LUEN AVE,  
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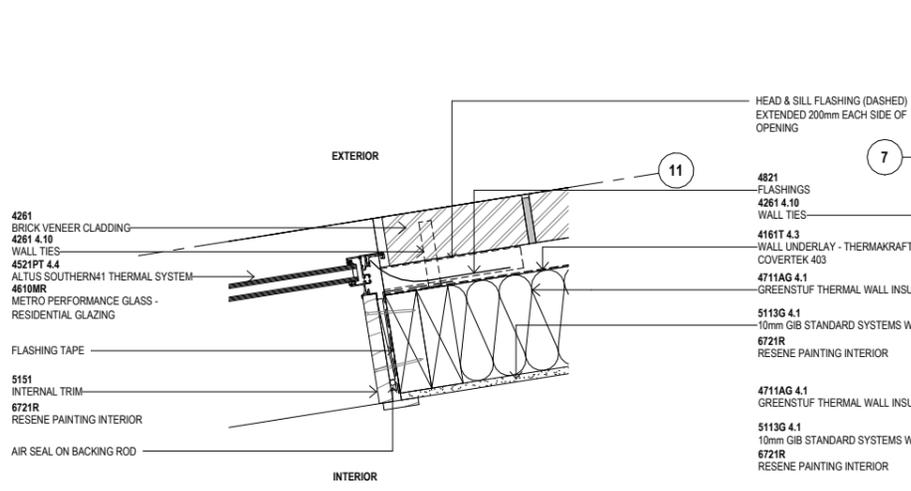
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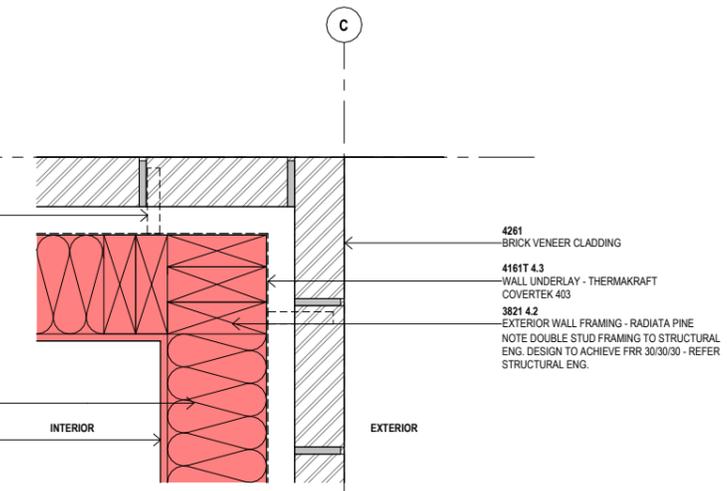
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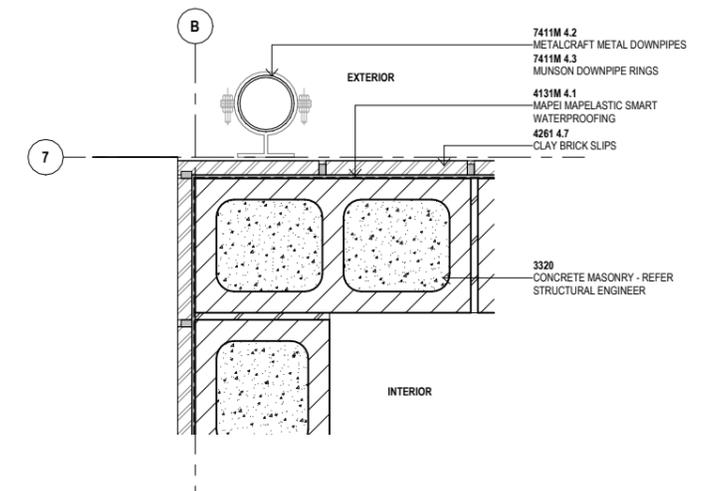
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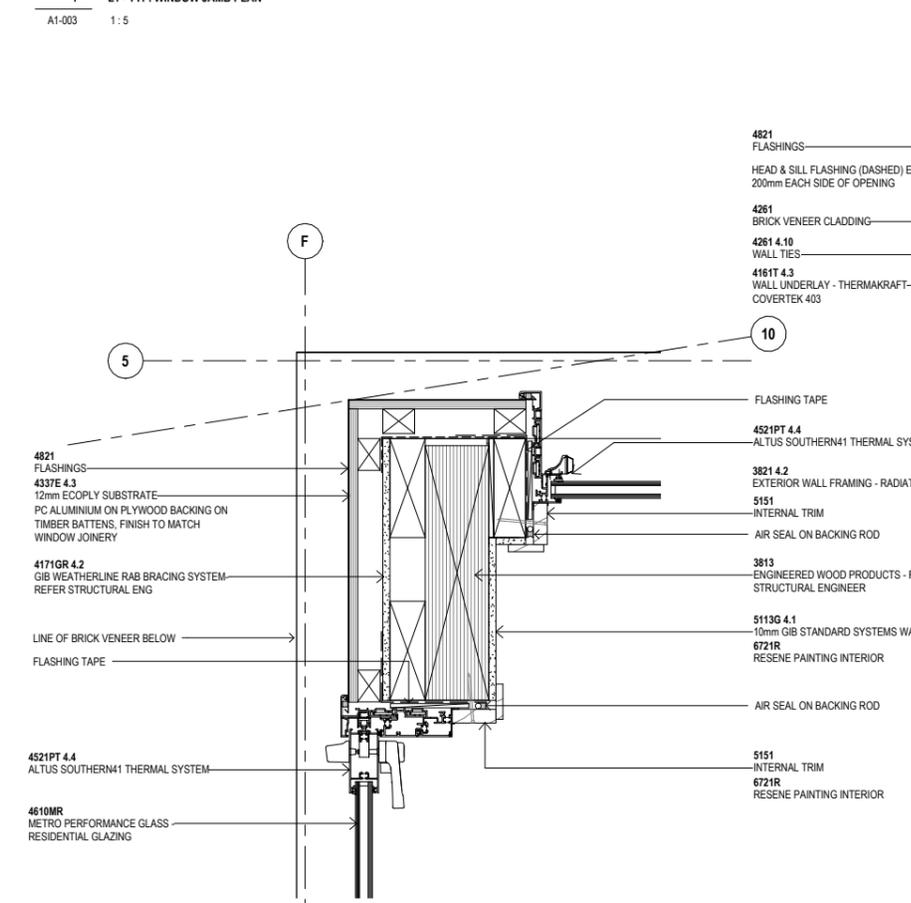
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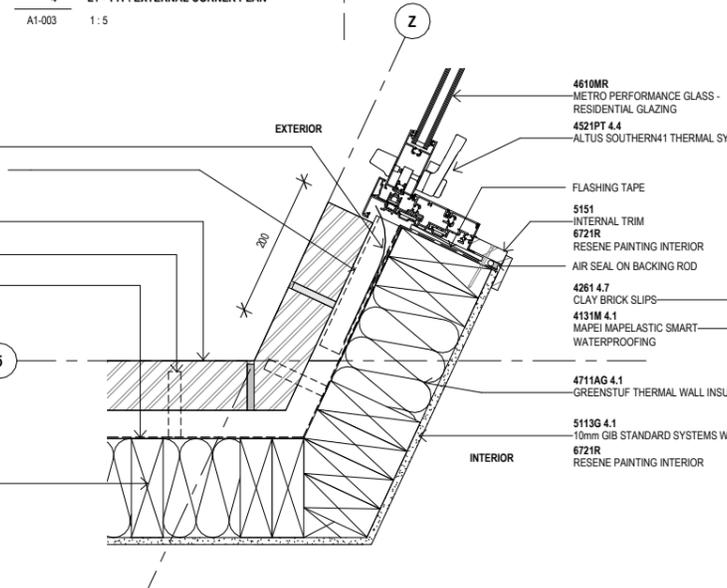
4 L1 - TYP. EXTERNAL CORNER PLAN  
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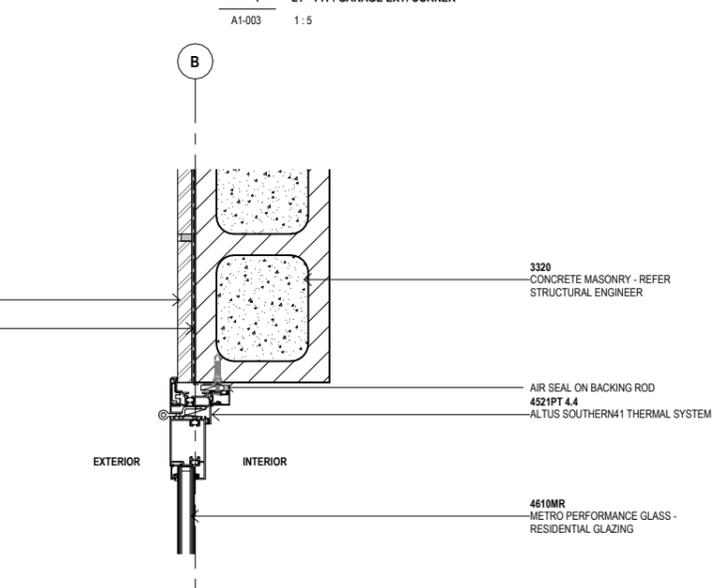
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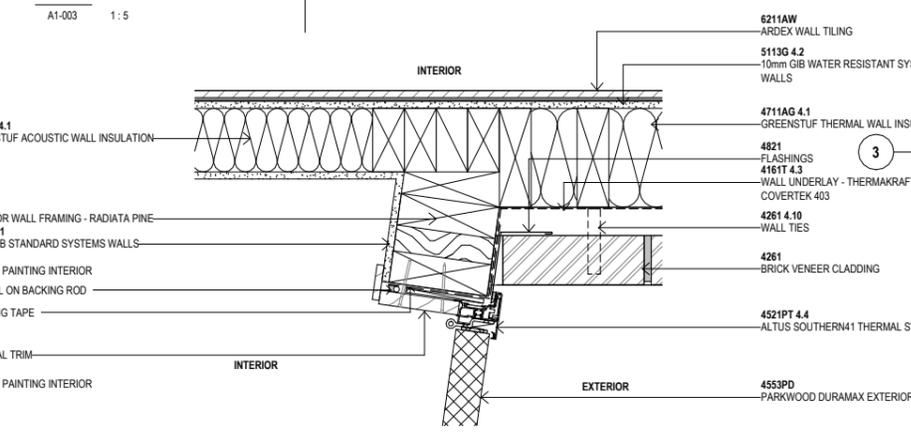
2 L1 - EXTERNAL CORNER PLAN 1  
A1-003 1:5



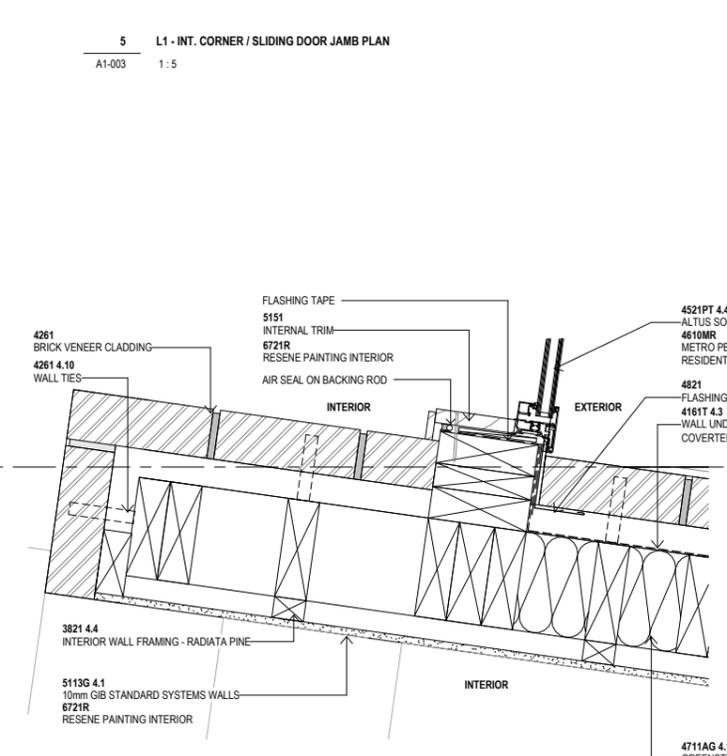
5 L1 - INT. CORNER / SLIDING DOOR JAMB PLAN  
A1-003 1:5



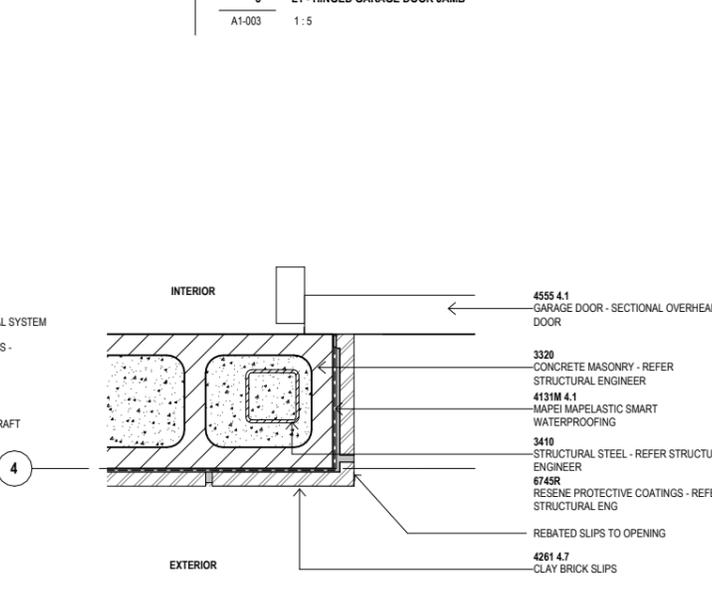
8 L1 - HINGED GARAGE DOOR JAMB  
A1-003 1:5



3 L1 - ENTRY DOOR JAMB PLAN  
A1-003 1:5



6 L1 - ENTRY WALL PLAN  
A1-003 1:5



9 L1 - SECTIONAL GARAGE DOOR JAMB 2  
A1-003 1:5

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**DRAWING**  
 DETAILS - EXTERNAL  
 ENVELOPE

SCALE AT A1  
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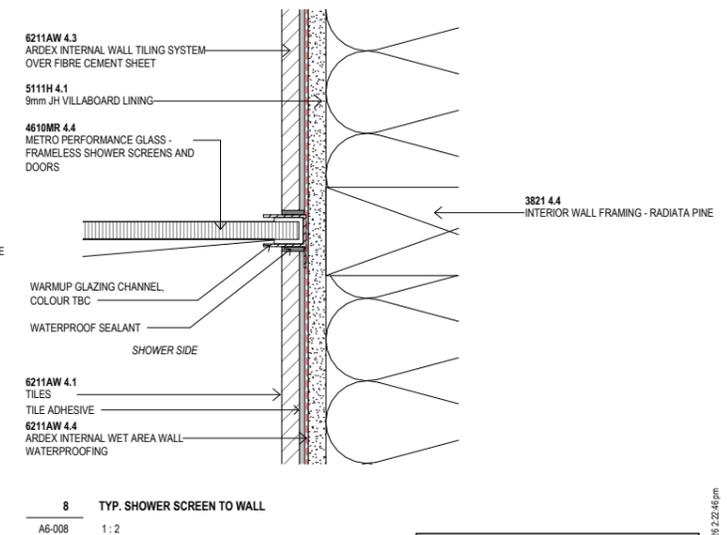
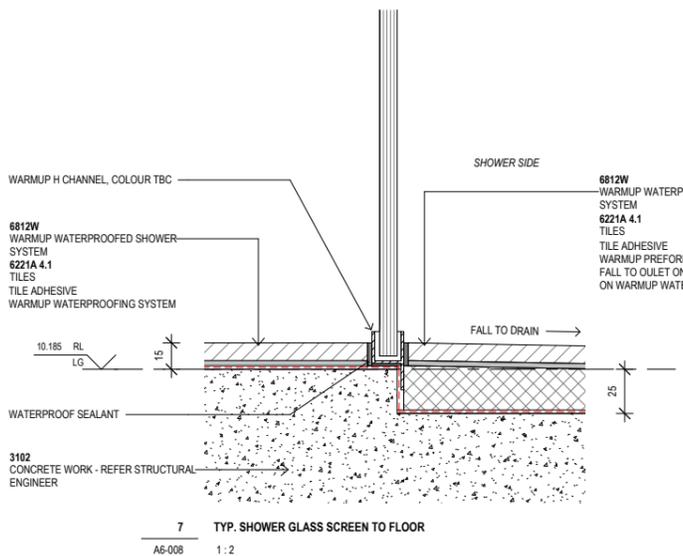
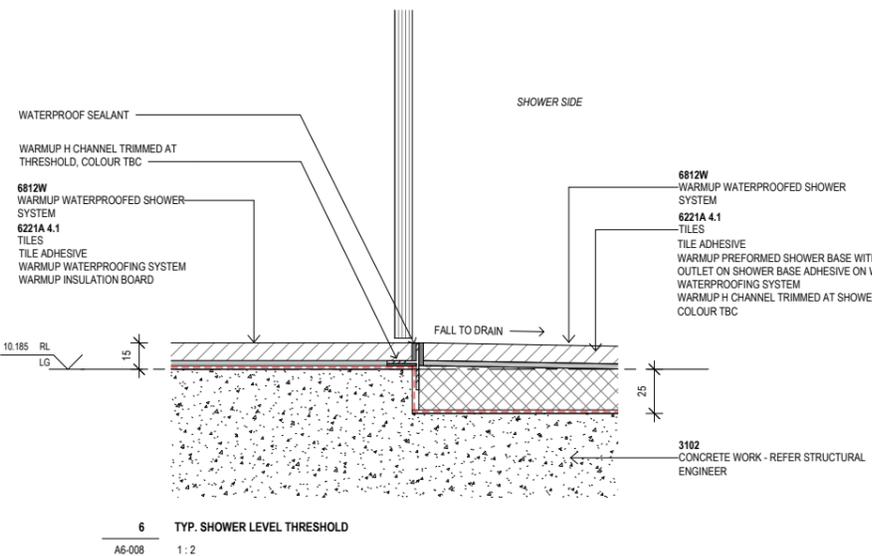
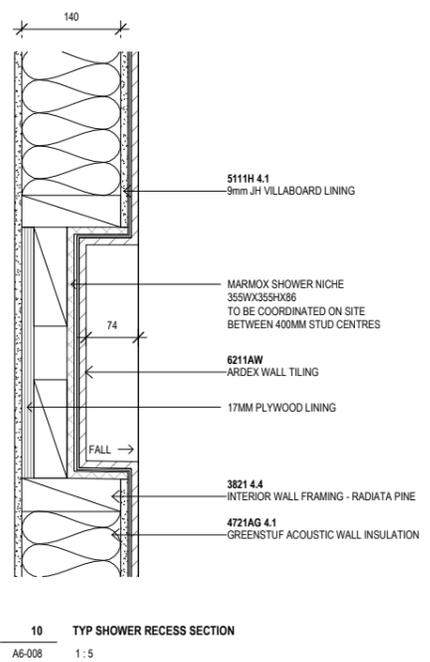
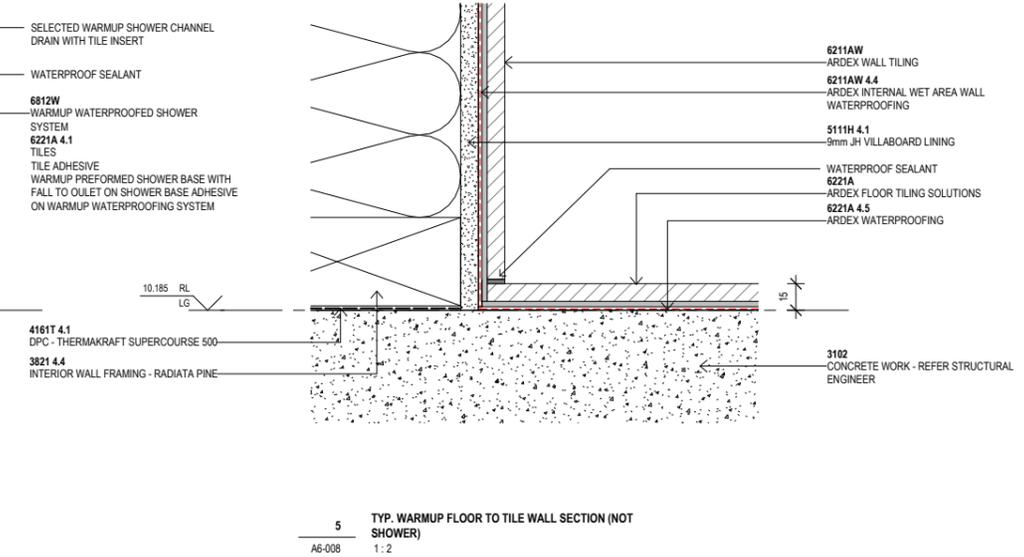
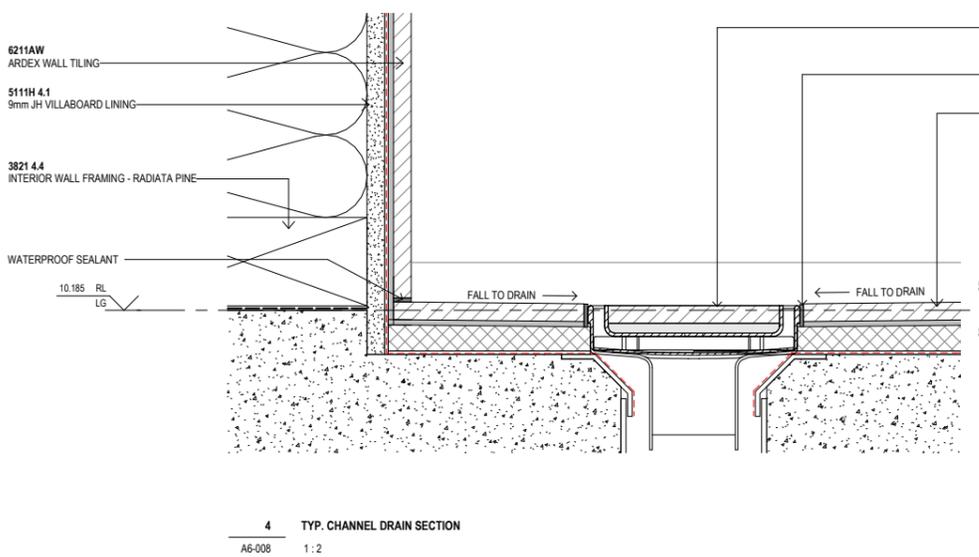
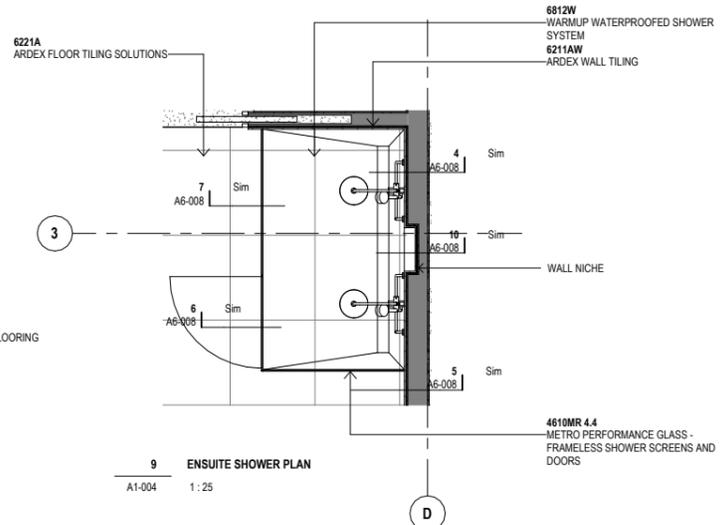
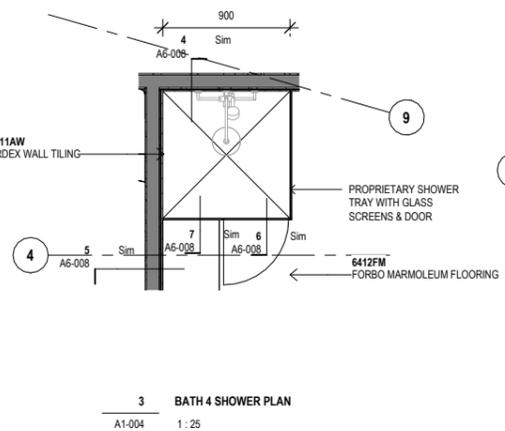
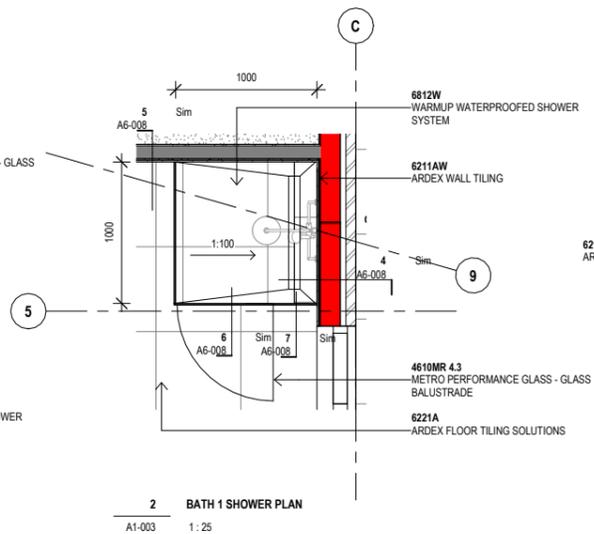
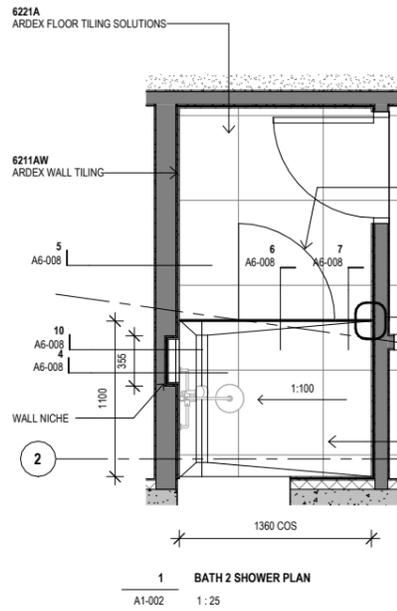
SHEET	REVISION
A6-006	A

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**BUILDING CONSENT**

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**NOTES**  
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**REVISIONS**

ISSUE	DATE	REVISION
A	11/02/2026	BUILDING CONSENT

**DRAWING TO BE PRINTED & READ IN COLOUR**

**Bossley Architects**

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+64 9 361 2201  
mail@bossleyarchitects.co.nz

**CONSULTANTS**  
STRUCTURAL - ACH CONSULTING ENGINEERS  
FIRE - ORIGIN FIRE CONSULTANTS

**PROJECT**  
MAHANA  
30 DE LUEN AVE,  
TINDALLS BEACH

**DRAWING**  
DETAILS - SHOWERS

SCALE AT A1  
As indicated

SHEET	REVISION
A6-008	A

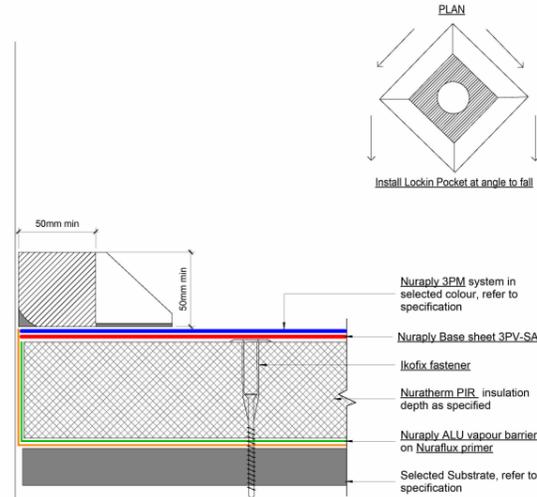
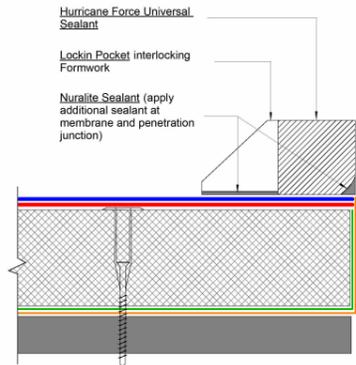
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Interlocking corners 50mm x 50mm internal face, 50mm in height.  
Interlocking straights 150mm, 200mm, 250mm, 300mm  
Fully moulded square pockets 150mm, 200mm



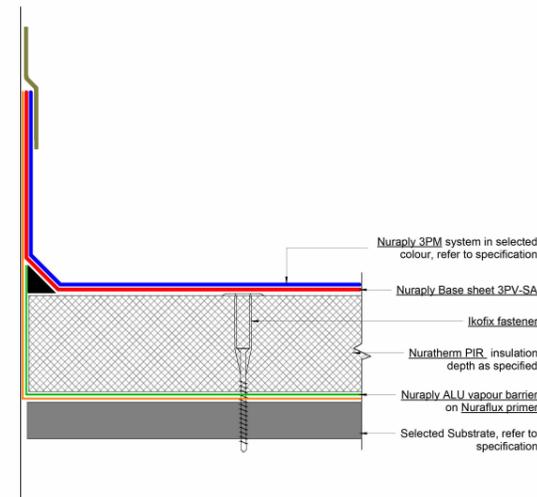
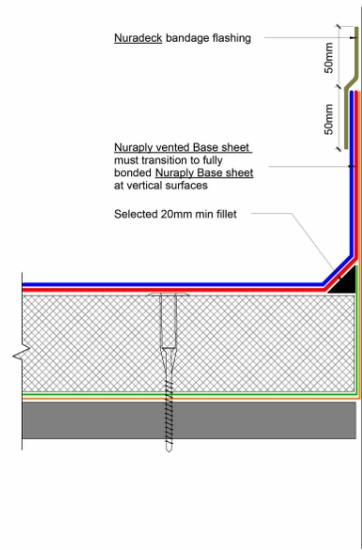
CodeMark  
CMNZ70032

**NURALITE**  
FLAT ROOFS | BUILT RIGHT

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PRODUCT/SYSTEM: **NURAPLY 3PM WARM ROOF**  
DETAIL: **ROOF PENETRATION WITH LOCKIN POCKET / POUR POCKET**  
SCALE: NTS DATE: **AUG 22** PREVIOUS DWG no: **RPW.D4** REVISION: **2** DWG no: **3PM-W.D4**

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**NURALITE**  
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PRODUCT/SYSTEM: **NURAPLY 3PM WARM ROOF**  
DETAIL: **ROOF PENETRATION WITH NURADECK BANDAGE FLASHING**  
SCALE: NTS DATE: **AUG 22** PREVIOUS DWG no: **RPW.D2** REVISION: **2** DWG no: **3PM-W.D2**

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**REVISIONS**

ISSUE	DATE	REVISION
A	11/02/2026	BUILDING CONSENT

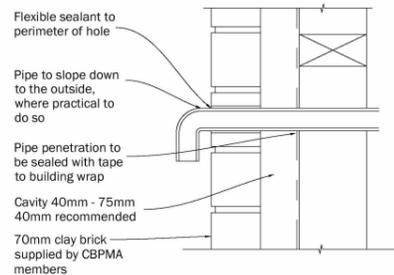
**DRAWING TO BE PRINTED & READ IN COLOUR**



bricksnz.co.nz

**OP01: Pipe Penetration**

Openings – Penetrations

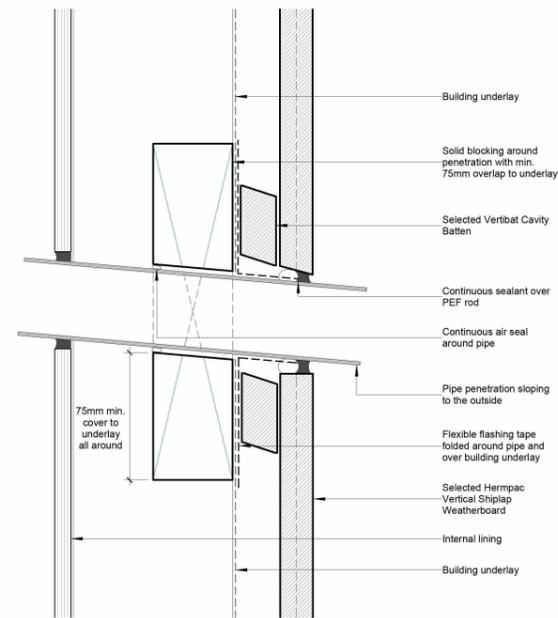


Date: 01/11/2024 Scale: 1:5 Construction Detail: op01-pipe penetration

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Disclaimer:  
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Nothing in this information constitutes a statement of fitness for particular purpose - appropriate expert advice should always be obtained.  
CBPMA makes no warranty regarding the use of this information with non-CBPMA members product.

**NOTES:**  
- All weatherboard fixings pre-drilled maximum 1mm diameter smaller than the nail/screw gauge.  
- All Hempac timber products, cut ends and edges to be pre-coated as per Installation Specifications.  
- All materials and fixtures are to comply with E2/AS1 Clause 2.2.  
- For non-hermed corner flashings, ensure a minimum 75mm cover to weatherboards beyond the point where BRANZ Bulletin 411 compliant weatherboard lap or rebate combinations terminate at the corner junction.  
- In Extra High Wind Zone and above, the 75mm cover requirement remains and hermed edges must also be used.  
- Refer to NZBC Acceptable Solution E2/AS1 Table 21 for the separation requirements between CCA treated battens and metal flashings.  
- Prior to installation, refer to Hempac Vertical Shiplap Technical Installation Specifications.



**Hempac**  
hermpac.co.nz  
SUBJECT TO CHANGE WITHOUT NOTICE

Cavity Fix Vertical Shiplap Weatherboard System  
Pipe Penetration Detail  
CodeMark  
CERTIFIED  
CMNZ30036

**HC-SHIP-801**  
DRAWING  
1 : 2 @ A4  
2022  
ISSUED DATE

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**BUILDING CONSENT**

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<b>A6-009</b>	<b>A</b>

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mail@bossleyarchitects.co.nz

CONSULTANTS  
STRUCTURAL - ACH CONSULTING ENGINEERS  
FIRE - ORIGIN FIRE CONSULTANTS

PROJECT  
**MAHANA**  
30 DE LUEN AVE,  
TINDALLS BEACH

DRAWING  
**DETAILS - TYP.  
PENETRATION**

SCALE AT A1