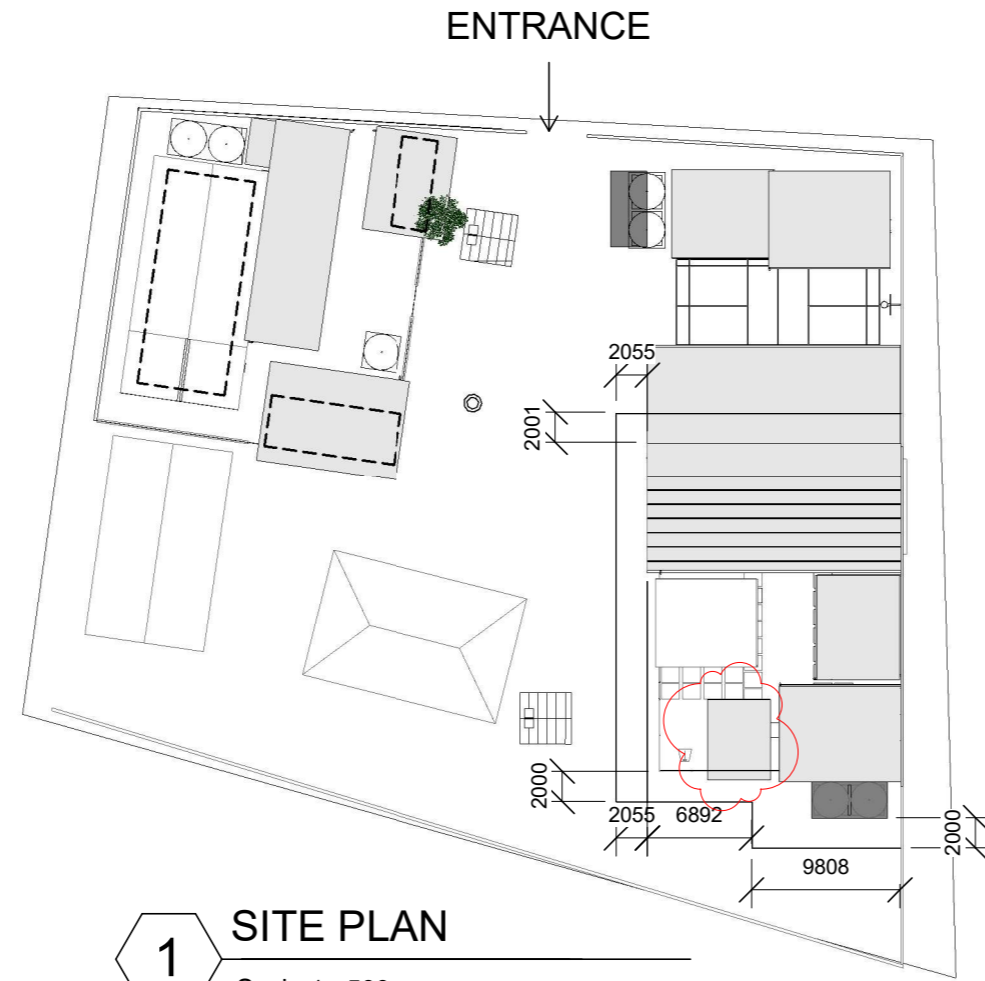
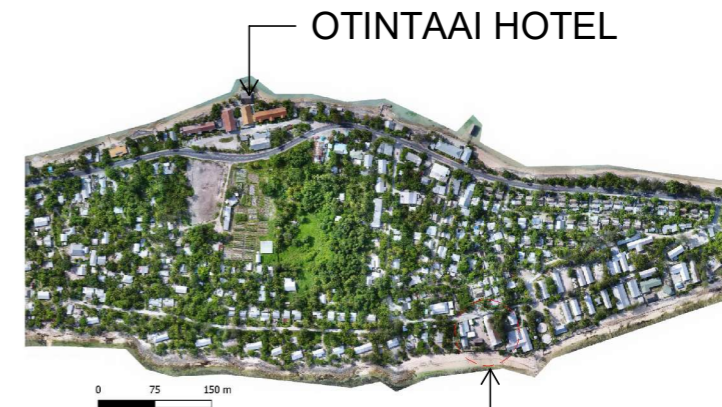


# DRAWING LIST

- A00 SITE PLAN
- A01 EXISTING & PROPOSED PLAN
- A02 PROPOSED LAYOUT
- A03 DIMENSION PLAN
- A04 ROOF PLAN
- A05 ROOF FRAMING PLAN
- A06 PLUMBING PLAN
- A07 ELECTRICAL PLAN
- A08 FOUNDATION PLAN
- A20 ELEVATION 1,2,3 & 4
- A21 FRONT ELEVATIONS
- A22 ADDITIONAL SECLUSIONS DETAILS
- A50 SECTIONS - 1 & 2
- A51 SECTION 3 - 5
- A52 SECTION 6 - 7
- A70 DETAIL - FOOTING TYPES
- A71 DETAIL - DOOR
- A72 DETAIL - TIMBER FRAMING
- A73 DETAIL - KITCHEN UNIT
- A74 DETAIL - DRAINAGE LAYOUT
- A75 WALL REINFORCEMENT
- A80 TRUSS 1 - 3
- A81 DETAIL - LOUVRE & BIRD BATTEN
- A100 KEYNOTES
- A101 EXISTING AND PROPOSED VIEWS
- A102 EXISTING AND PROPOSED VIEW1
- A103 OPENING SCHEDULE
- A104 CONSTRUCTION SPECIFICATIONS



**1** SITE PLAN  
 Scal 1 : 500  
 e:



OTINTAAI HOTEL

REFER TO SITE PLAN FOR TEMEERIA PHASE 2

**3** LOCALITY PLAN - BIKENIBEU  
 Scal 1 : 10000  
 e:



**2** 3D View 14\_1  
 Scal 1 : 1  
 e:

1 Additional Seclusions to Phase 1 22/11/21

## TDS

TECHNICAL DESIGN SECTION  
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 PO BOX 498  
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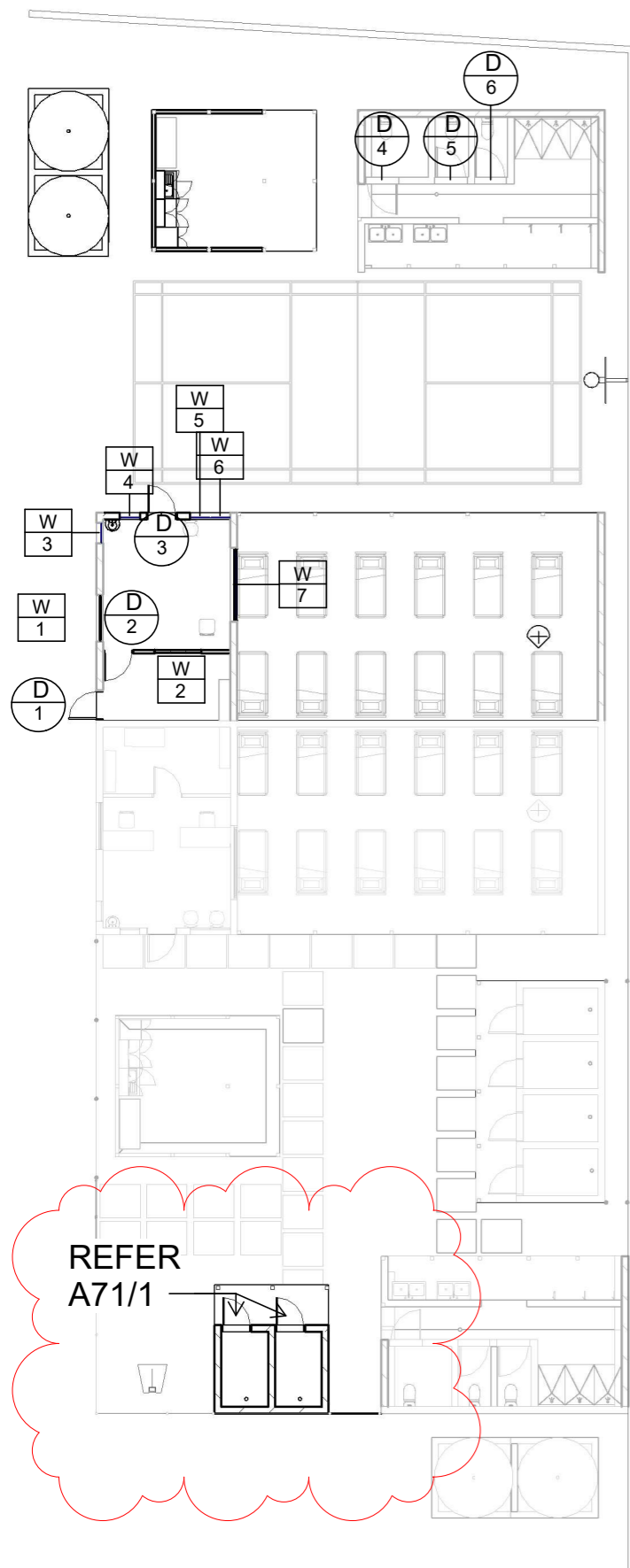
**TEMEERIA MALE WARD  
 PHASE 2**

CLIENT: MHMS  
 PROJECT NO: 031601

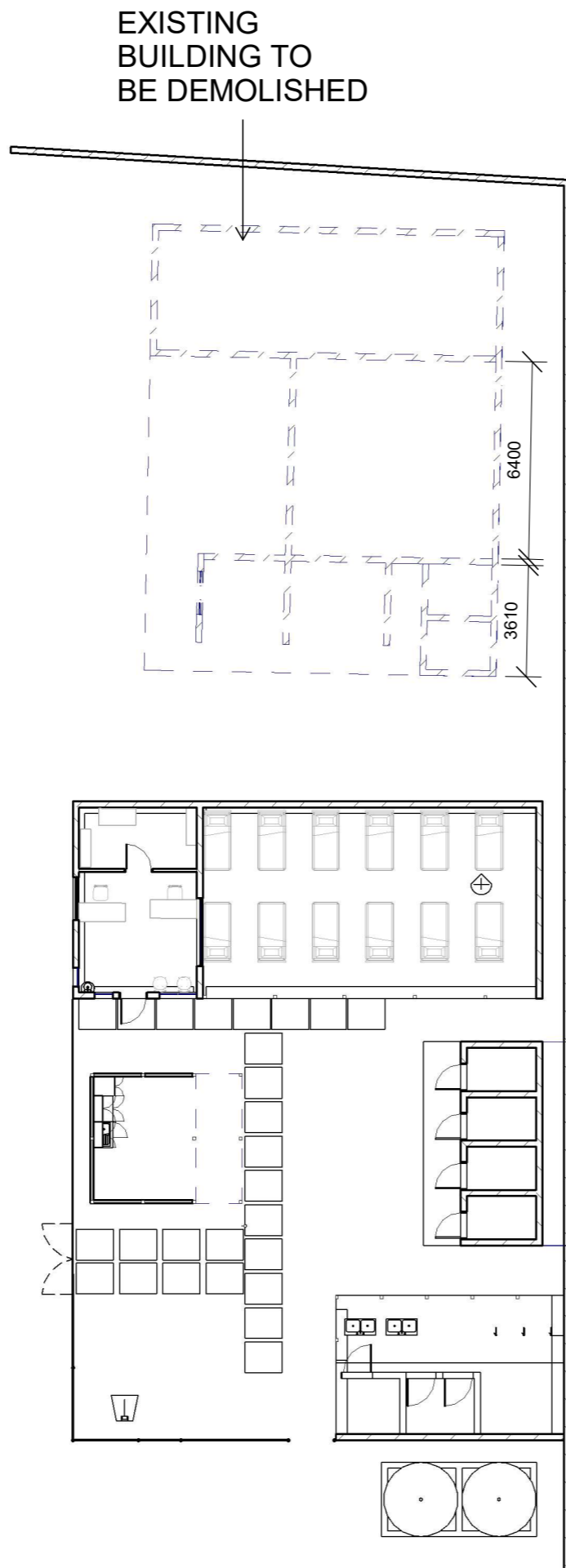
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**SITE PLAN**

DRAWN BY: T.Titaake  
 REVIEWED BY: P.T/T.T/T.M  
 DATE: 04/05/17  
 SCALE: As indicated

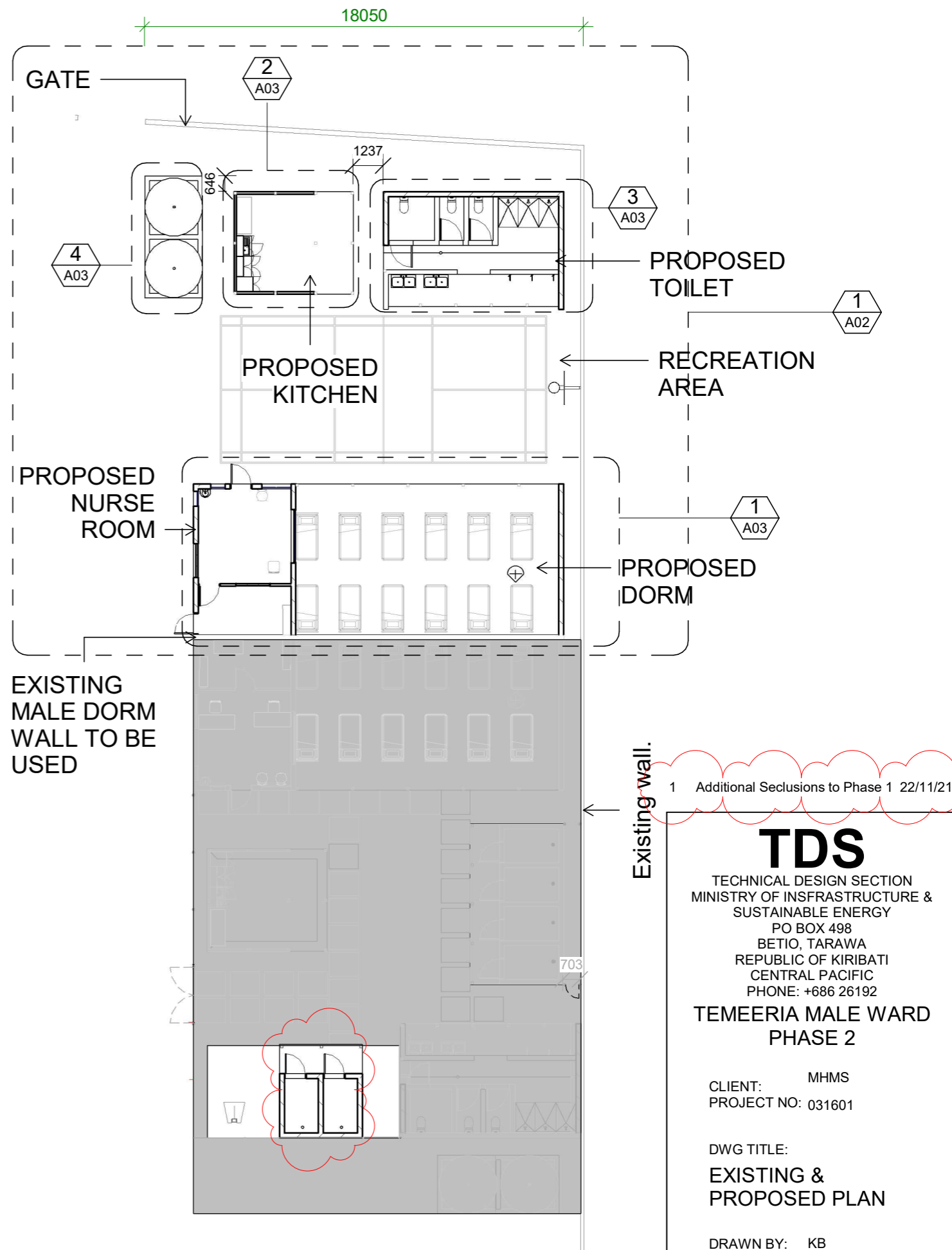
DRAWING NUMBER: A00      ISSUE: 1



**3** OPENING REFERENCES  
 Scal 1 : 200  
 e:



**2** EXISTING AND DEMO PLAN  
 Scal 1 : 200  
 e:



**1** PROPOSED PLAN  
 Scal 1 : 200  
 e:

**TDS**  
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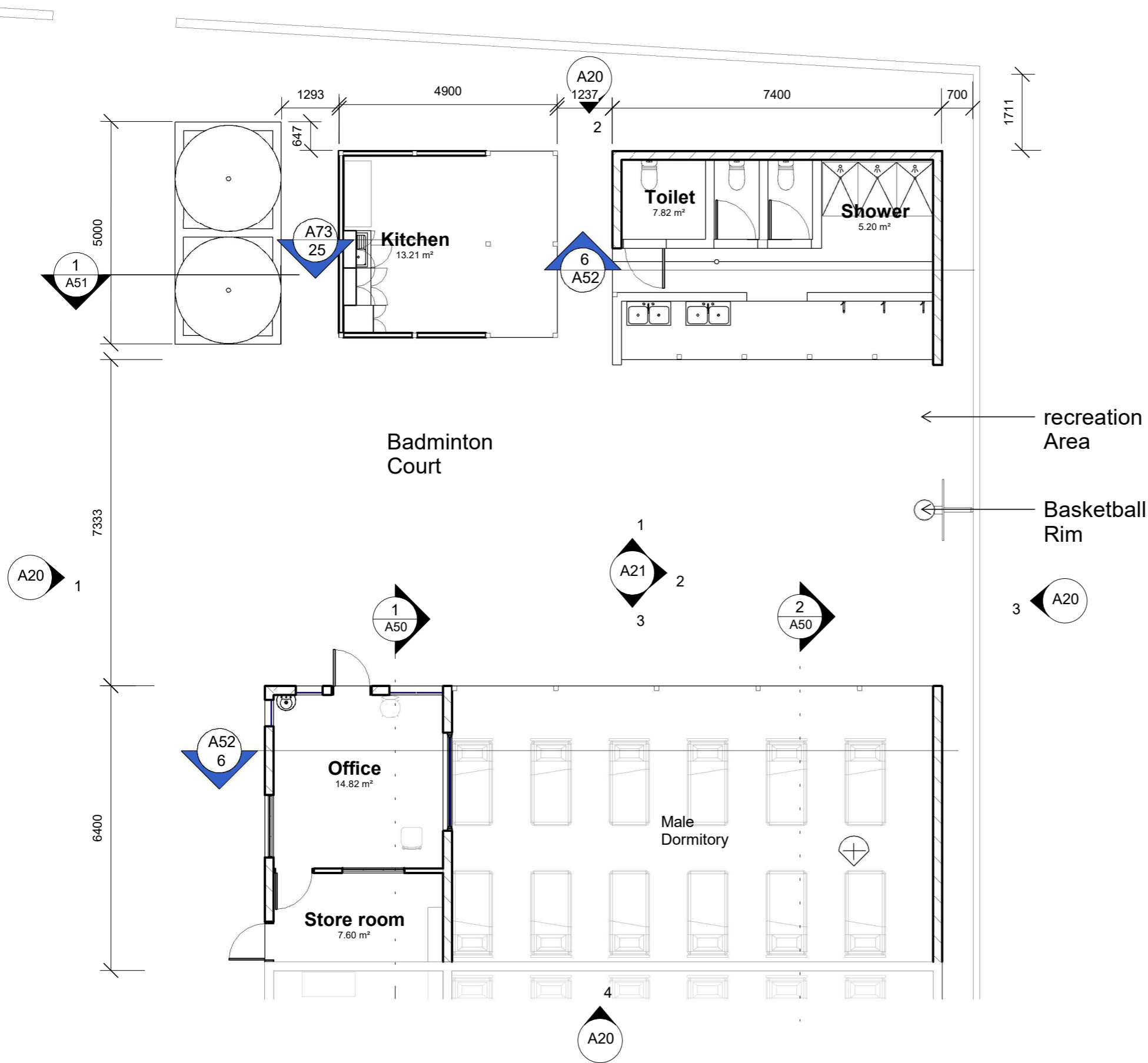
**TEMEERIA MALE WARD  
 PHASE 2**

CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**EXISTING &  
 PROPOSED PLAN**

DRAWN BY: KB  
 REVIEWED BY: P.T/T.T/M  
 DATE: 04/05/17  
 SCALE: 1 : 200

DRAWING NUMBER: A01  
 ISSUE: 1



**1** PROPOSED LAYOUT  
 Scal 1 : 100  
 e:

**TDS**  
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**TEMEERIA MALE WARD  
 PHASE 2**

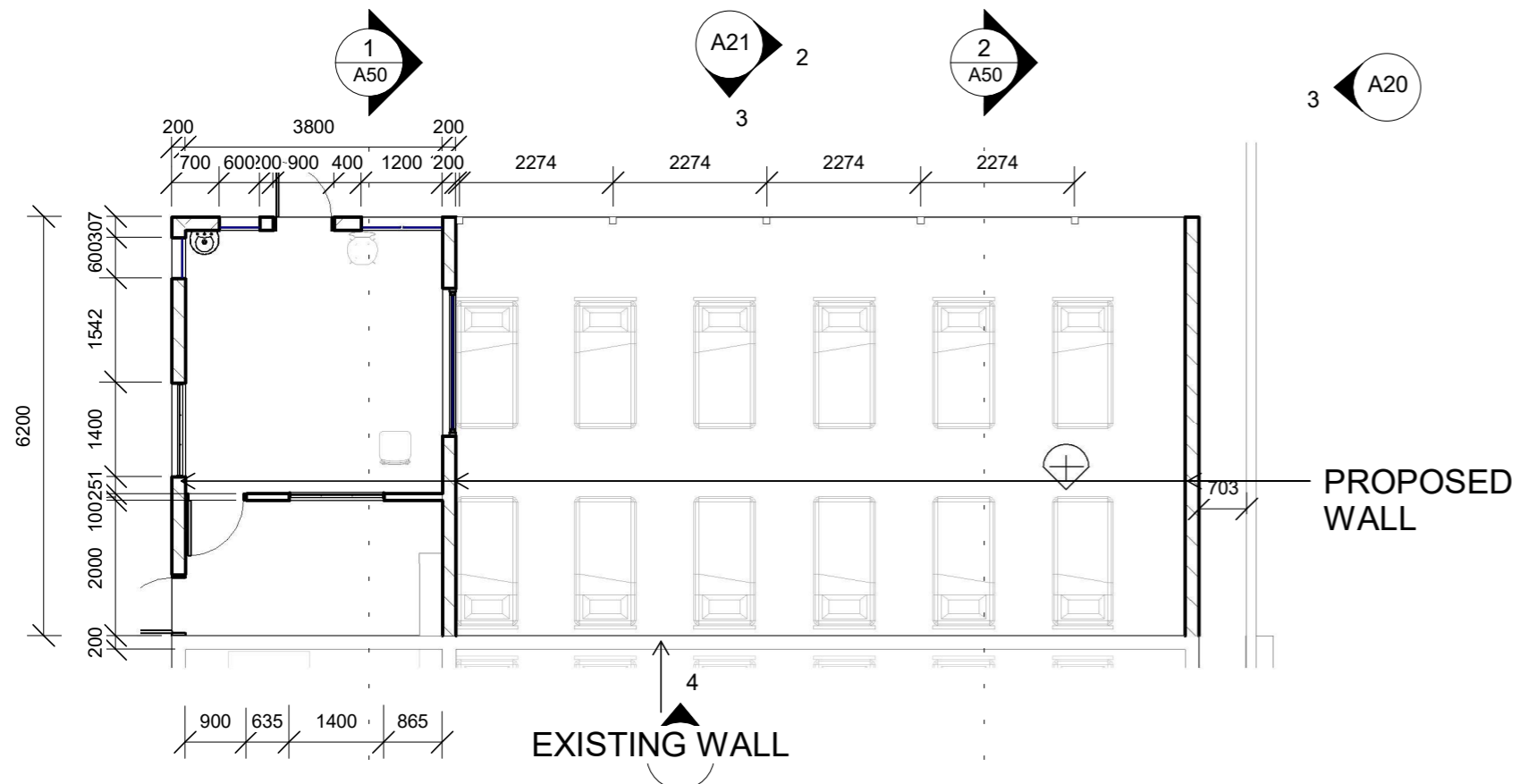
CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
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DRAWN BY: Author  
 REVIEWED BY: Checker  
 DATE: 12/02/20  
 SCALE: 1 : 100

DRAWING NUMBER: ISSUE:

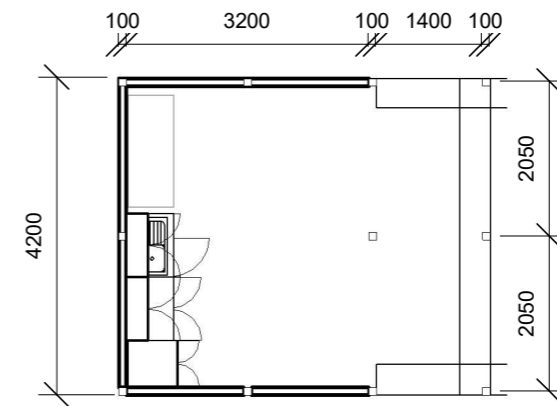
**A02**



**1 PROPOSED DORMITORY PLAN**

1

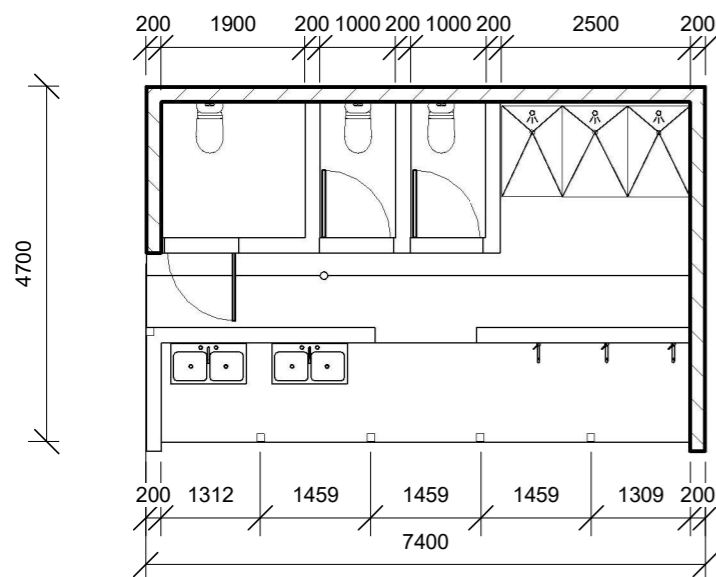
Scal 1 : 100  
e:



**2 PROPOSED KITCHEN PLAN**

2

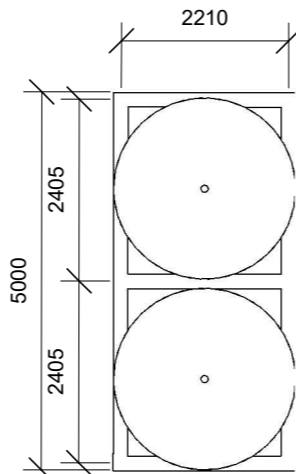
Scal 1 : 100  
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**3 PROPOSED TOILET PLAN**

3

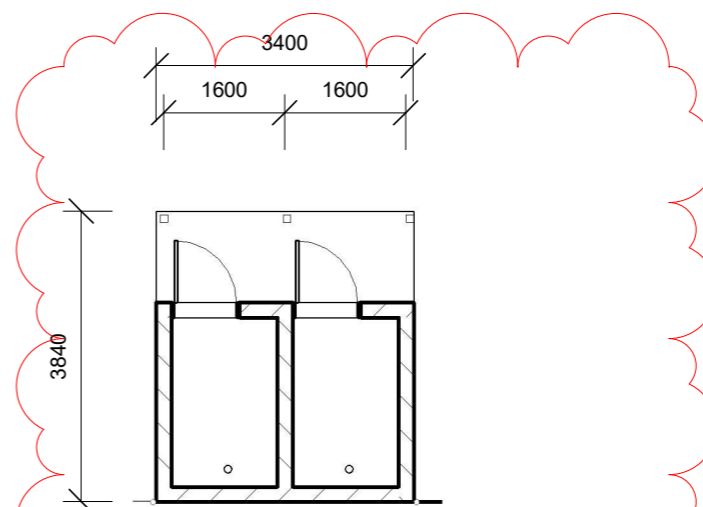
Scal 1 : 100  
e:



**4 WATER TANK WITH BASE**

4

Scal 1 : 100  
e:



**5 ADDITIONAL SECLUSIONS PLAN**

5

Scal 1 : 100  
e:

1 Additional Seclusions to Phase 1 22/11/21

# TDS

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**TEMEERIA MALE WARD  
PHASE 2**

CLIENT: MHMS  
PROJECT NO: 031601

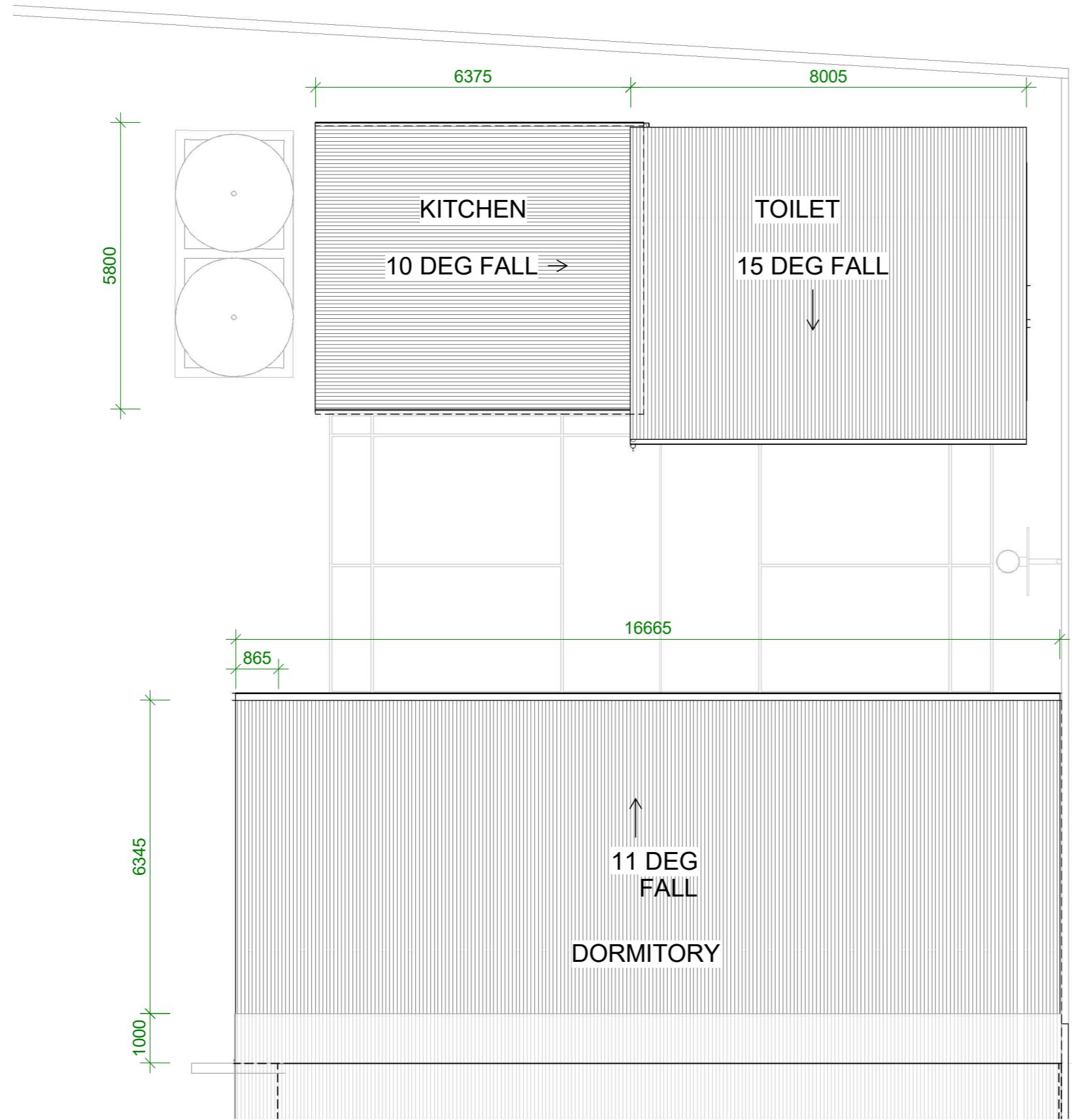
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**DIMENSION PLAN**

DRAWN BY: T.Titaake  
REVIEWED BY: P.T/T.T/T.M  
DATE: 04/05/17  
SCALE: 1 : 100

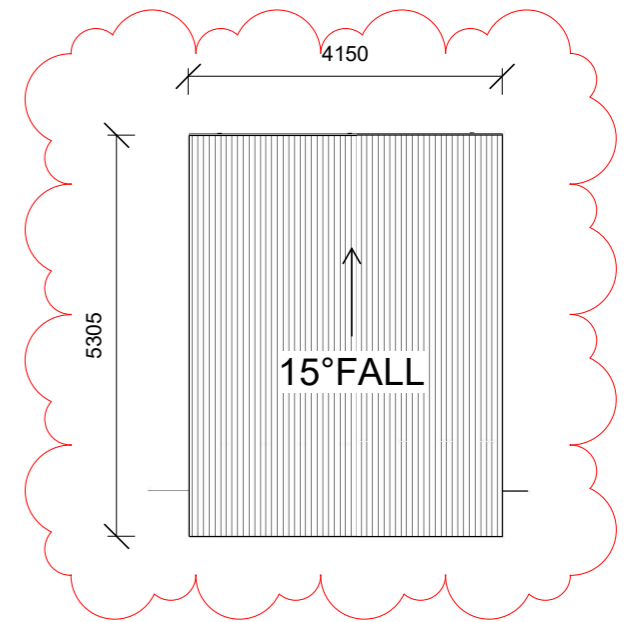
DRAWING NUMBER: ISSUE:

A03

1



**1** ROOF  
 Scal 1 : 100  
 e:



**2** ADDITIONAL SECLUSIONS ROOF  
 Scal 1 : 100  
 e:

1 Additional Seclusions to Phase 1 22/11/21

**TDS**  
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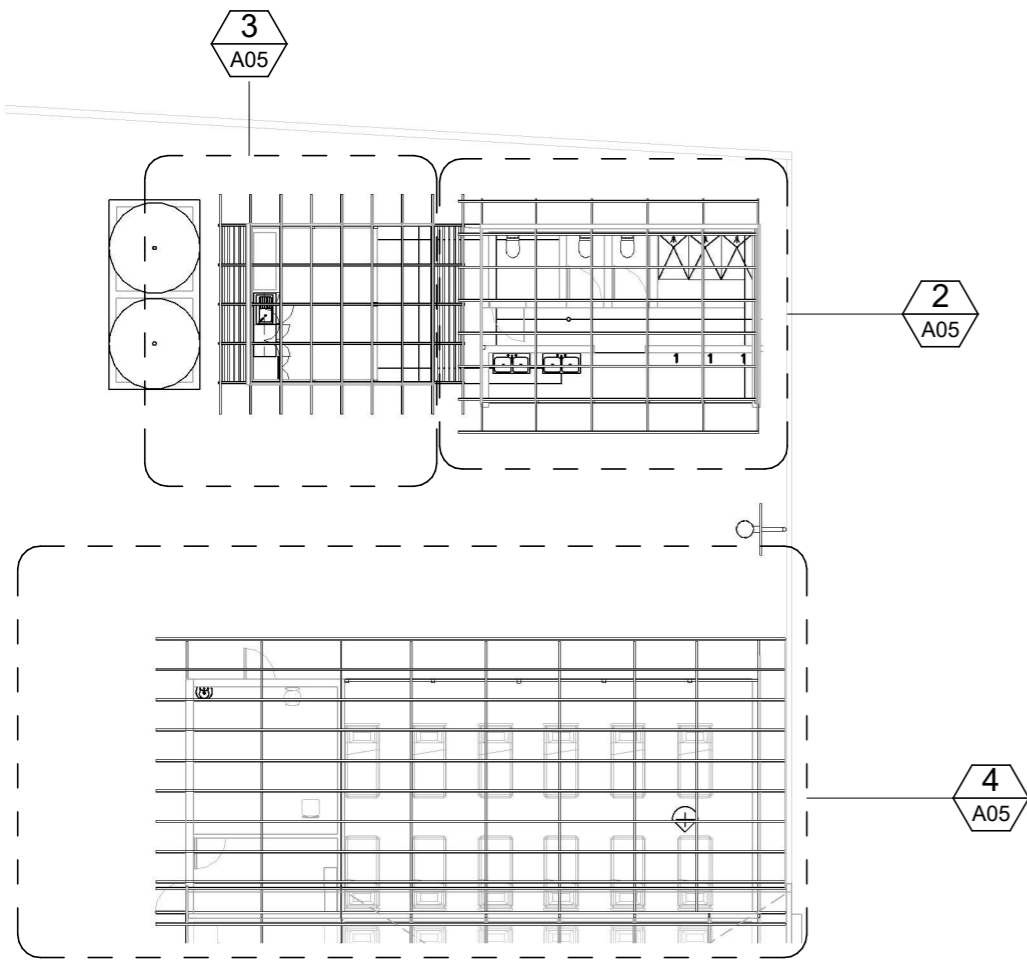
**TEMEERIA MALE WARD  
 PHASE 2**

CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**ROOF PLAN**

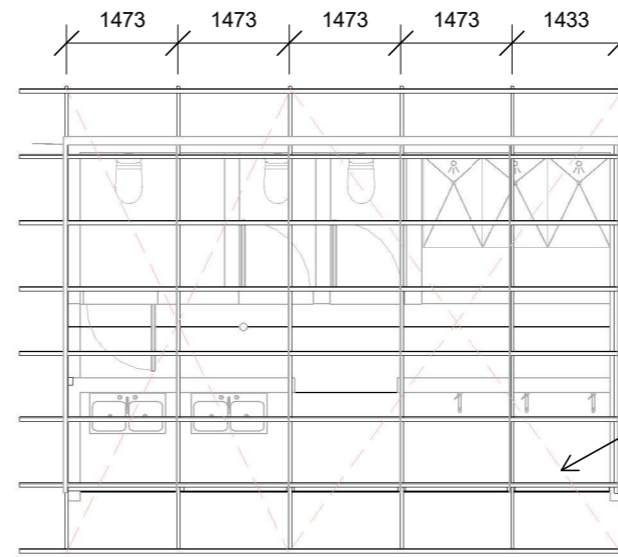
DRAWN BY: T.Titaake  
 REVIEWED BY: P.T/T.T/T.M  
 DATE: 04/05/17  
 SCALE: 1 : 100

DRAWING NUMBER: A04      ISSUE: 1



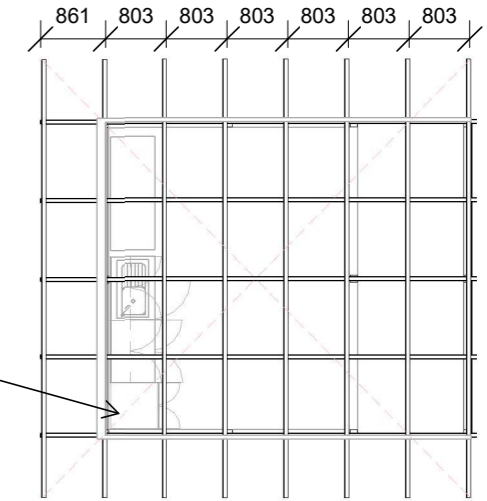
**2 ROOF FRAMING - Callout 1**

Scal 1 : 100  
e:



**3 ROOF FRAMING - Callout 2**

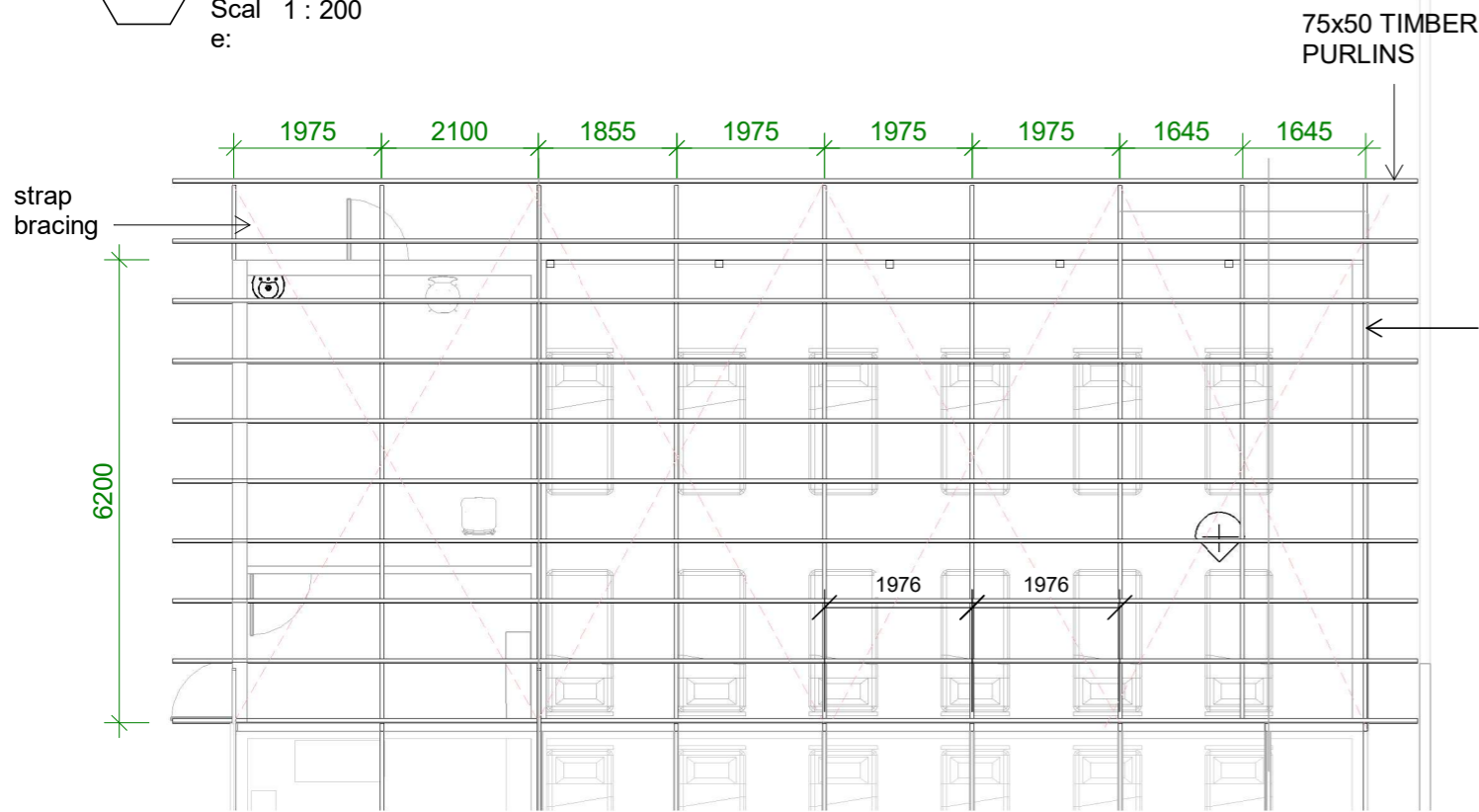
Scal 1 : 100  
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STRAP BRACING

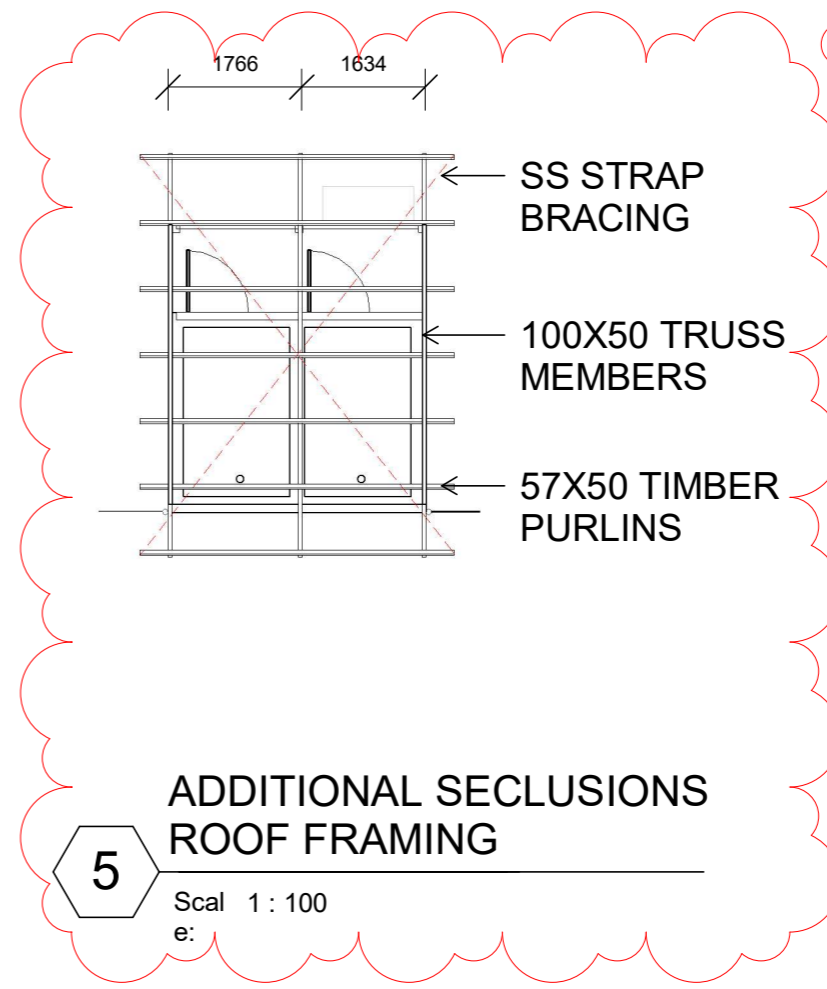
**1 ROOF FRAMING**

Scal 1 : 200  
e:



**4 ROOF FRAMING - Callout 3**

Scal 1 : 100  
e:



**5 ADDITIONAL SECLUSIONS ROOF FRAMING**

Scal 1 : 100  
e:

1 Additional Seclusions to Phase 1 22/11/21

**TDS**

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**TEMEERIA MALE WARD  
PHASE 2**

CLIENT: MHMS  
PROJECT NO: 031601

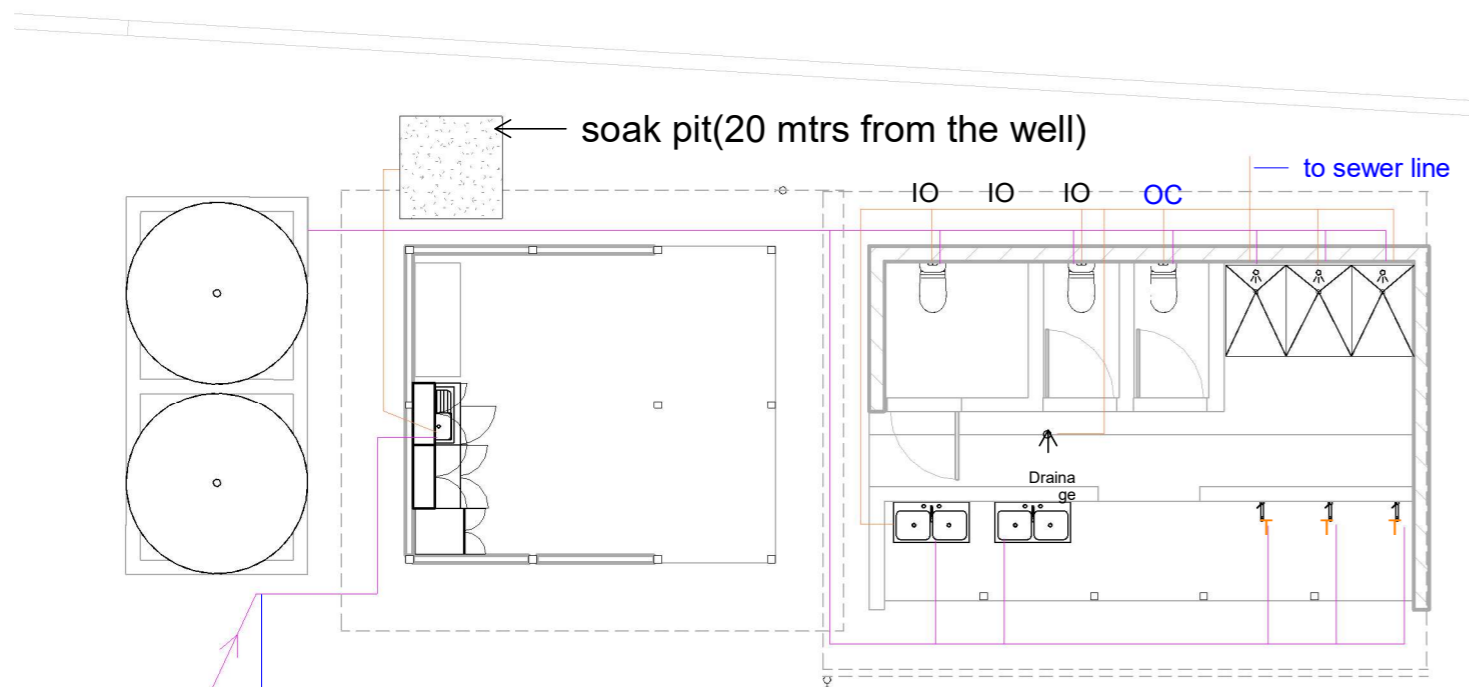
DWG TITLE:  
**ROOF FRAMING PLAN**

DRAWN BY: T.Titaake  
REVIEWED BY: P.T/T.T/T.M  
DATE: 04/05/17  
SCALE: As indicated

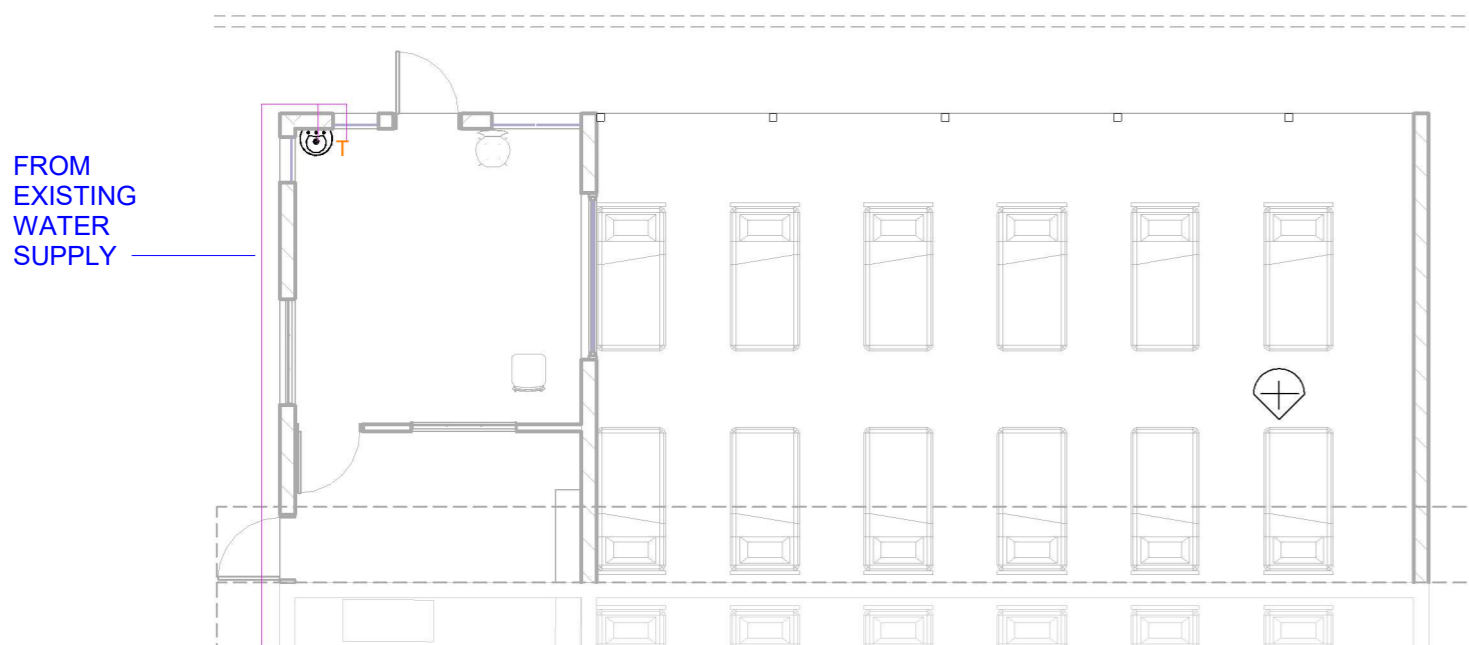
DRAWING NUMBER: ISSUE:

A05

1



Distributed from well and underground tank to shower and cistern and tub



**1 PLUMBING PLAN**  
 Scal 1 : 100  
 e:

**NOTE:**

- GREY AND BLACK WATER DRAINAGE PIPES BOTH CONNECTED TO PUB SEWER LINE.
- DIRECTION OF INLET AND OUTLET PIPES DEPENDS ON LOCATION OF P.U.B. SERVICES IN RELATION TO THE BUILDING ORIENTATION ON SITE.
- STORAGE TANKS CAN BE INCORPORATED TO INLET PIPES (TO KITCHEN SINKS)
- OR TANKS SIMPLY HAVE DIRECT TAP OUTLETS
- TANKS CONCRETE BASE STAND SHOULD BE IN LEVEL WITH THE BUILDING FLOOR LEVEL
- WC CONNECTED TO P.U.B. SALT WATER LINE OR WELL WATER FROM ONSITE HEADER TANK
- SINKS, SHOWERS AND LAUNDRY TAPS CONNECTED TO P.U.B. CLEAN WATER LINE OR WELL WATER FROM ONSITE HEADER TANK

**PLUMBING NOTES AND SPECIFICATIONS:**

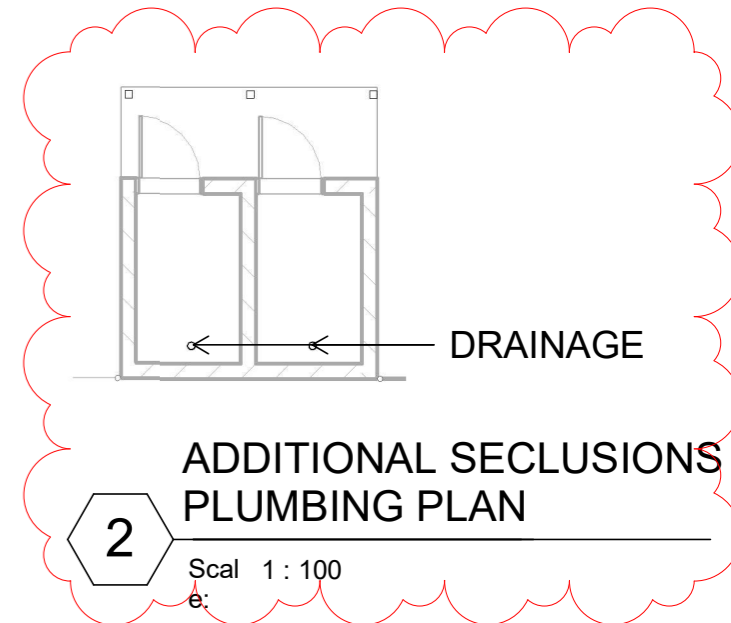
USE UPVC FOR ALL DRAINAGE PIPES, ABOVE AND BELOW GROUND.

**PLUMBING LEGEND**

- INLET MIN. 20-40mm NOMINAL DIAMETER (DN) FROM WELLS OR FROM MAIN DISTRIBUTION PUB PIPES
- OUTLET (SIZES REFER NOTES BELOW)

- IO - INSPECTION OPENING(I/O)
- IC - INSPECTION Chamber
- OC - Opening/Closet Valve.
- T - Tap
- D P - Down pipe
- Soak pit
- Wall Fence
- Roof outline & gutter

- MIN. SIZE OF TRAP OUTLET AND FIXTURE DISCHARGE PIPE (NOMINAL DIAMETER (DN) IN MM):**
- 40 - BASIN - 65 DN MIN. FOR ALL BRANCH DRAINS AT 1 IN 40 MIN. GRADE
  - 40 - SHOWER
  - 80 - WATER CLOSET PAN- 100 DN MIN. FOR MAIN DRAIN AT 1 IN 60 MIN. GRADE
  - 40 - LAUNDRY DRAIN
  - 50 - KITCHEN SINK
- NOTES ARE IN ACCORDANCE TO AS/NZS 3500.5



1 Additional Seclusions to Phase 1 22/11/21

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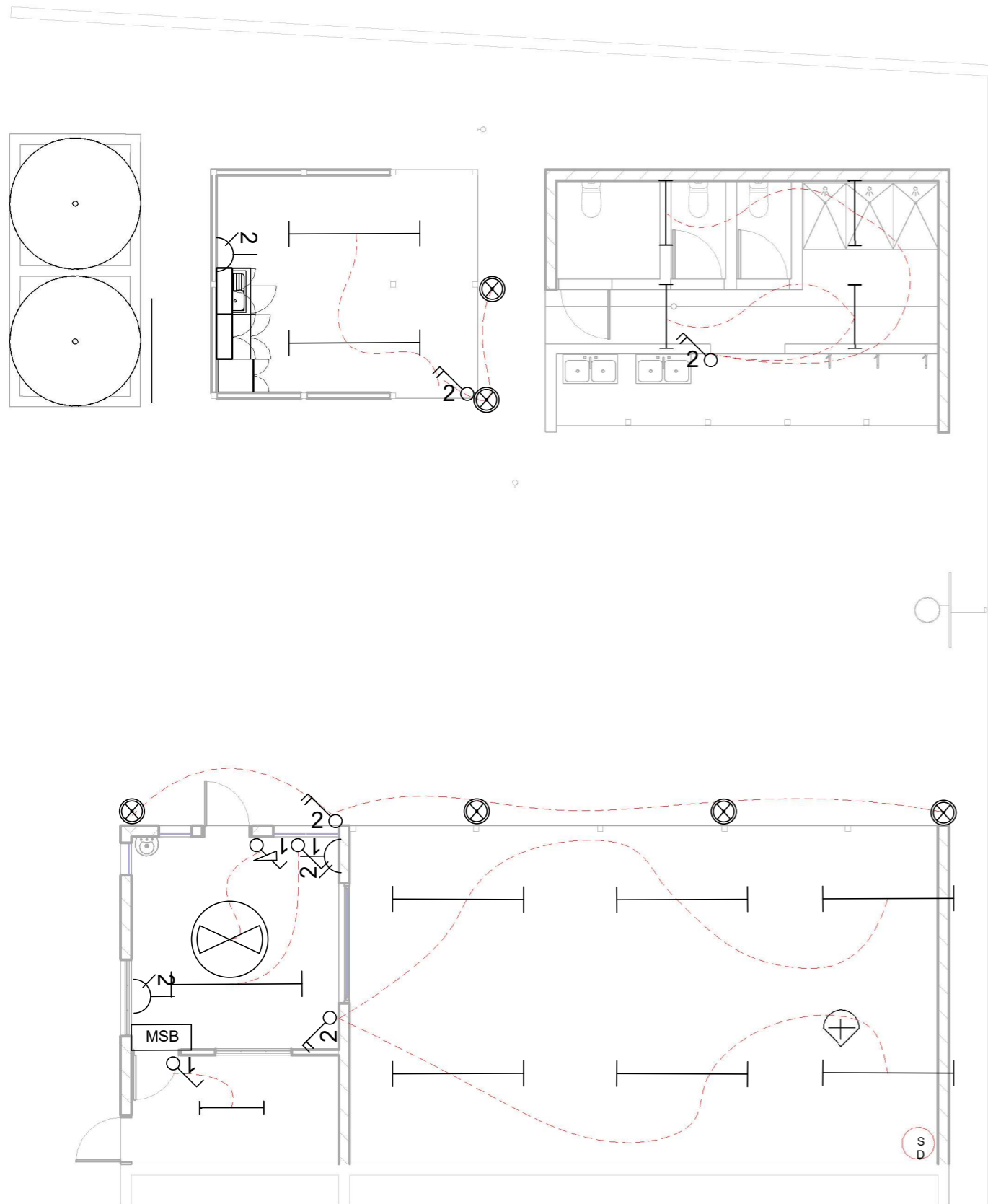
**TEMEERIA MALE WARD PHASE 2**

CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**PLUMBING PLAN**

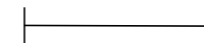








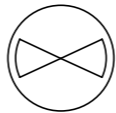

DRAWN BY: T.Titaake  
 REVIEWED BY: P.T/T.T/T.M  
 DATE: 04/05/17  
 SCALE: 1 : 100

DRAWING NUMBER: A06  
 ISSUE: 1



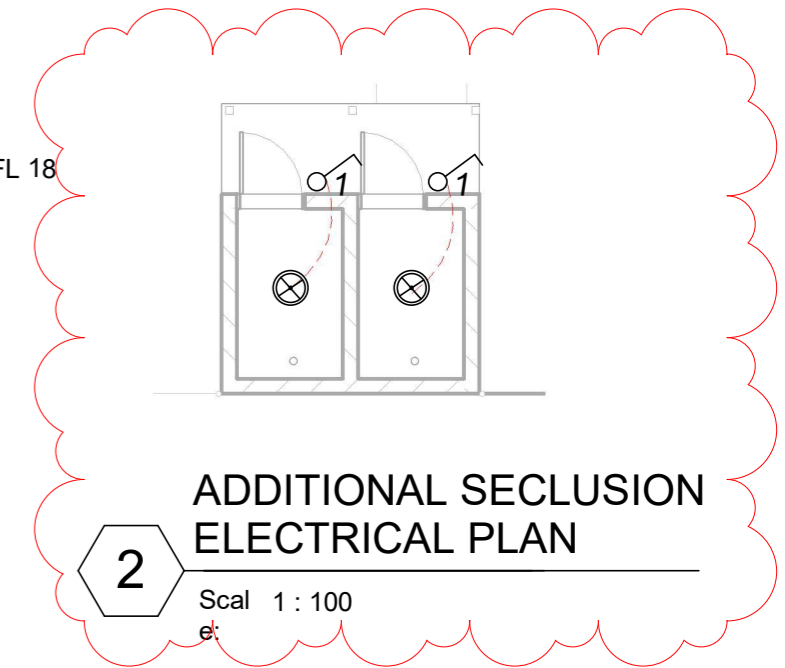
**1** ELECTRICAL PLAN  
 Scal 1 : 100  
 e:

**ELECTRICAL LEGEND**

-  Light ceiling mounted flourescent(1200mm) T8, LED 14W, 240V (4ft)
-  Light ceiling mounted flourescent(600mm) T8, LED 9W, 240V (2ft)
-  Light ceiling mounted batten (CFL 18 watts ) LED Bulb 9W
-  Fan switch single.
-  Light switch double
-  Light switch single
-  GPO double
-  Main switchboard
-  Cable
-  Ceiling Fan
-  Smoke Detector

**Main - Switch board feeds Dorm, Extension, Exclusion room.**  
**Sub - Switch board feeds Veranda , Kitchen, Laundry & Toilet.**

**10 sqmm cables for main supply (from PUB)**  
**4 sqmm cables for sub switch board.**  
**2.5 sqmm for power point (GPOs)**  
**1.5 sqmm for lighting circuits.**  
**RCD must project each circuit.**



1 Additional Seclusions to Phase 1 22/11/21

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**TEMEERIA MALE WARD  
 PHASE 2**

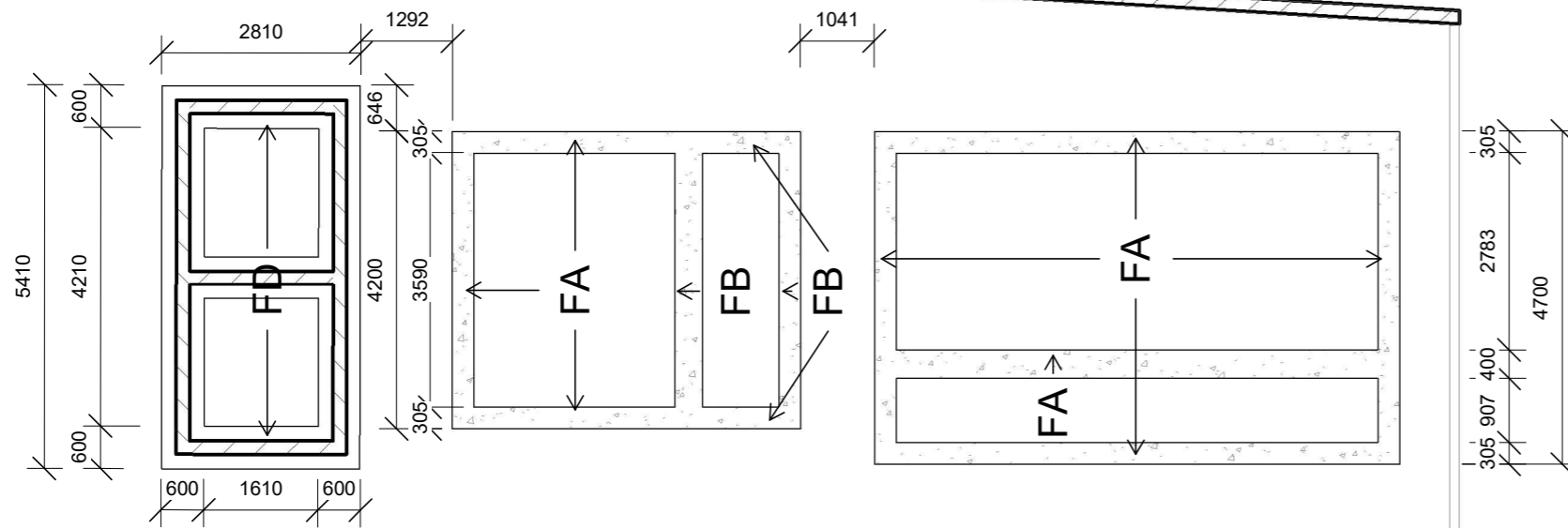
CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**ELECTRICAL PLAN**

DRAWN BY: T.Titaake  
 REVIEWED BY:P.T/T.T/T.M  
 DATE: 04/05/17  
 SCALE: 1 : 100

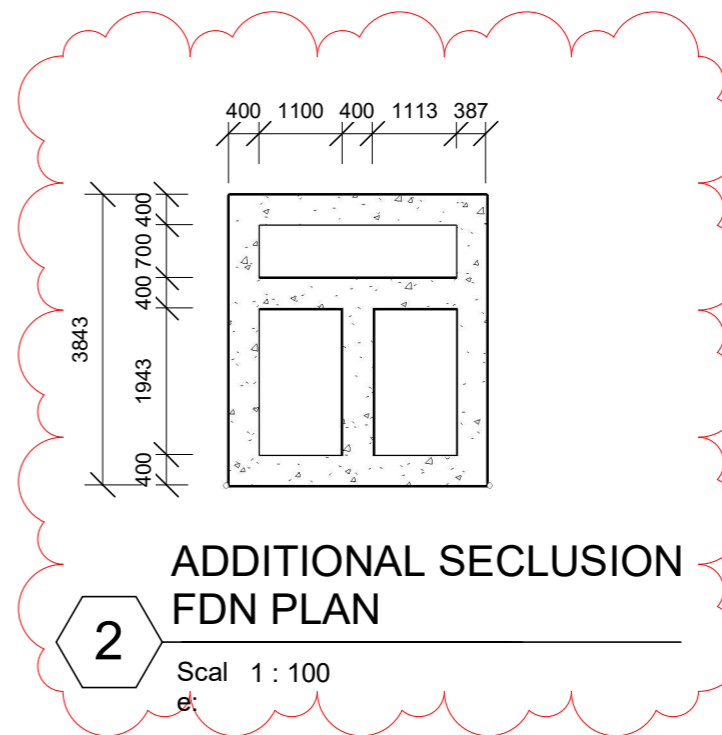
DRAWING NUMBER: ISSUE:

**A07 1**



**ABBREVIATION**

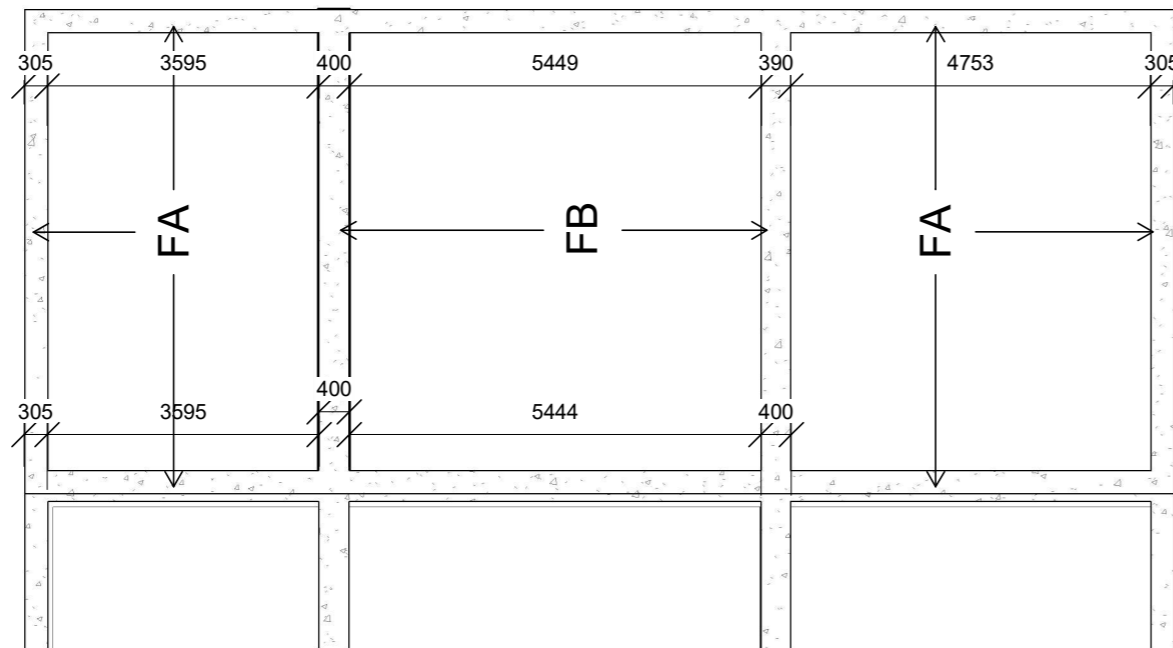
- FA - FOOTING TYPE A
- FB - FOOTING TYPE B
- FD - FOOTING TYPE D



**2** ADDITIONAL SECLUSION FDN PLAN

Scal 1 : 100  
e:

1 Additional Seclusions to Phase 1 22/11/21



**1** FOUNDATION PLAN  
Scal 1 : 100  
e:

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**TEMEERIA MALE WARD  
 PHASE 2**

CLIENT: MHMS  
 PROJECT NO: 031601

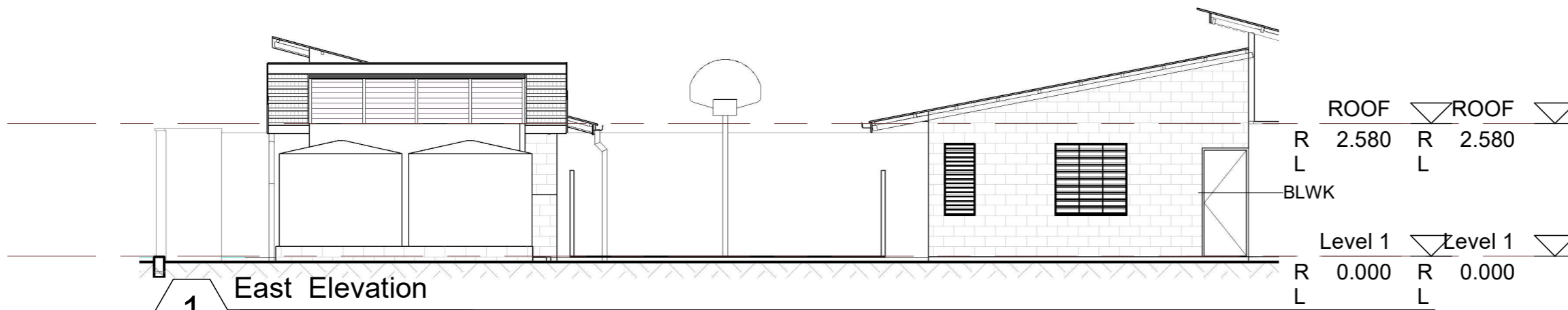
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**FOUNDATION PLAN**

DRAWN BY: T.Titaake  
 REVIEWED BY: P.T/T.T.T.M  
 DATE: 04/05/17  
 SCALE: 1 : 100

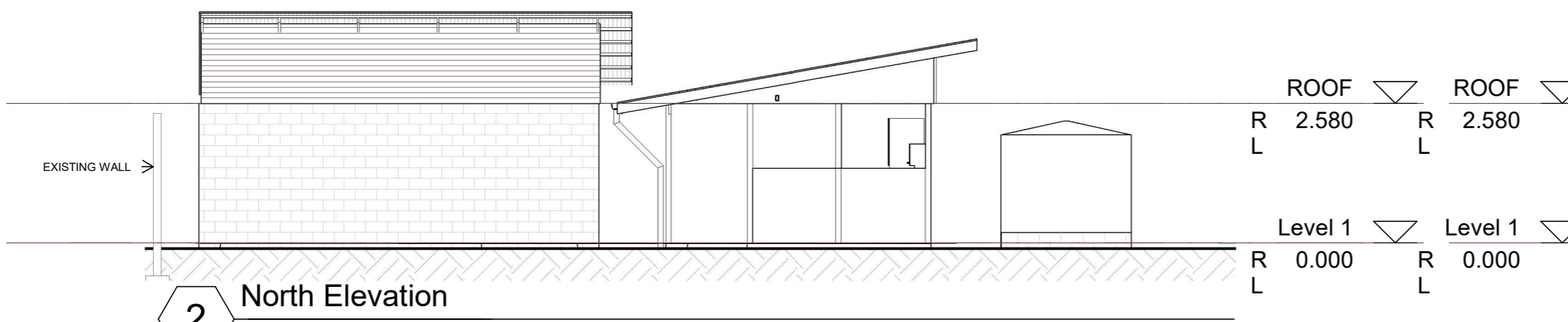
DRAWING NUMBER: A08  
 ISSUE: 1

LEGEND

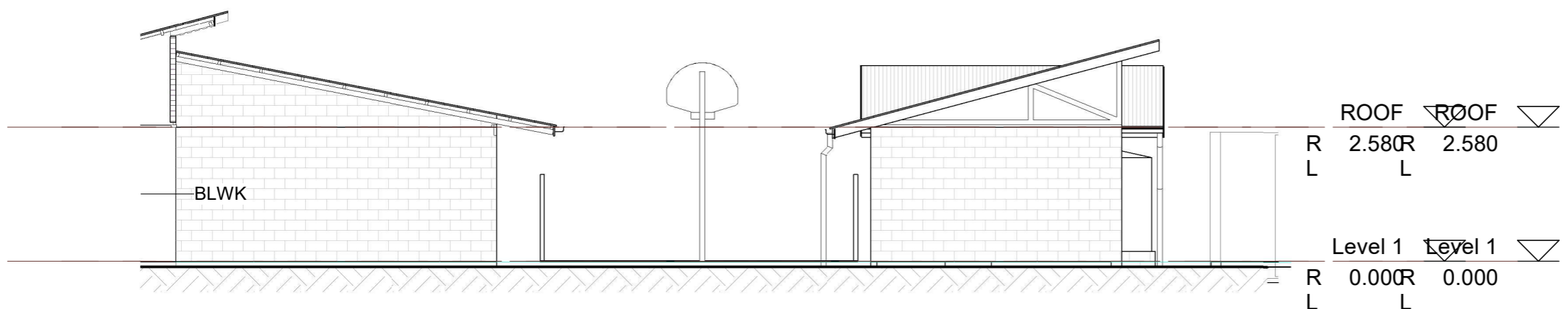
- BLWK REINFORCED CONCRETE BLOCKWORK
- ROOF CORRUGATED GALVANISED ROOFING SHEET - ZINCALUM FINISH - SCREW TO PURLIN



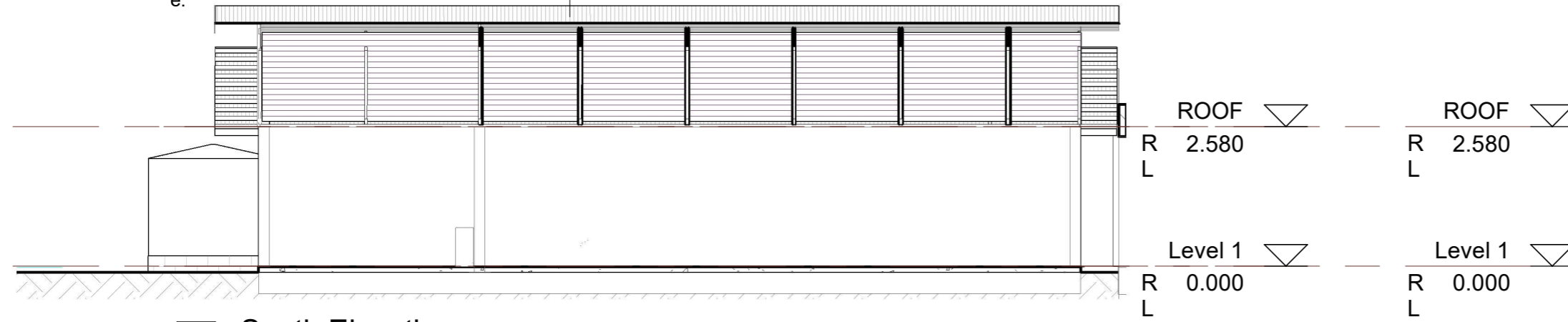
1 East Elevation  
Scal 1 : 100  
e:



2 North Elevation  
Scal 1 : 100  
e:



3 West Elevation  
Scal 1 : 100  
e:



4 South Elevation  
Scal 1 : 100  
e:

1 Additional Seclusions to Phase 1 22/11/21

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**TEMEERIA MALE WARD  
 PHASE 2**

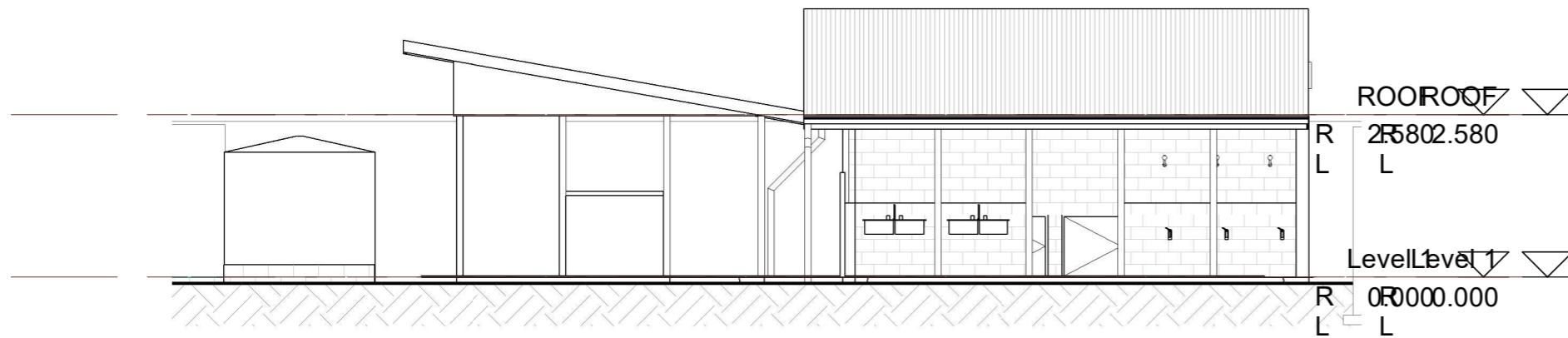
CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**ELEVATION 1,2,3 & 4**

DRAWN BY: T.Titaake  
 REVIEWED BY: P.T/T.T.M  
 DATE: 04/05/17  
 SCALE: 1 : 100

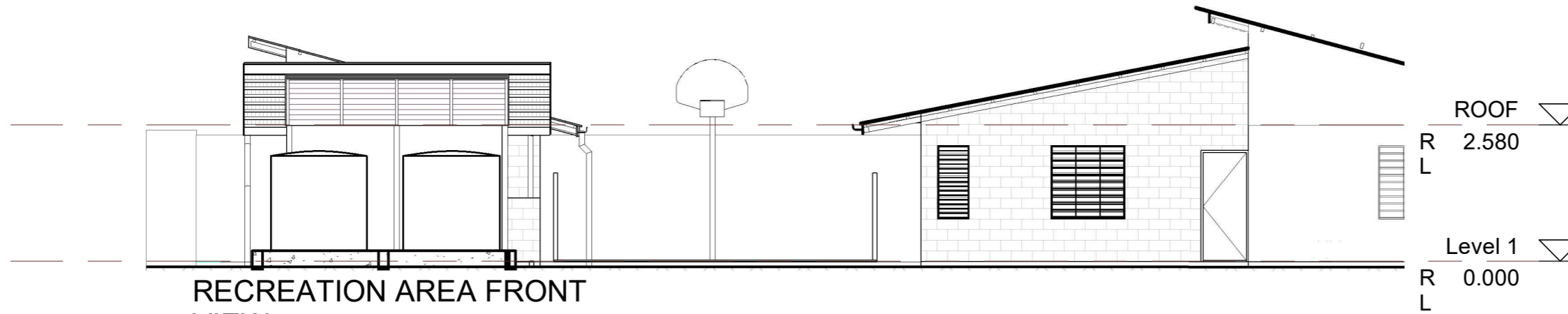
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**A20 1**



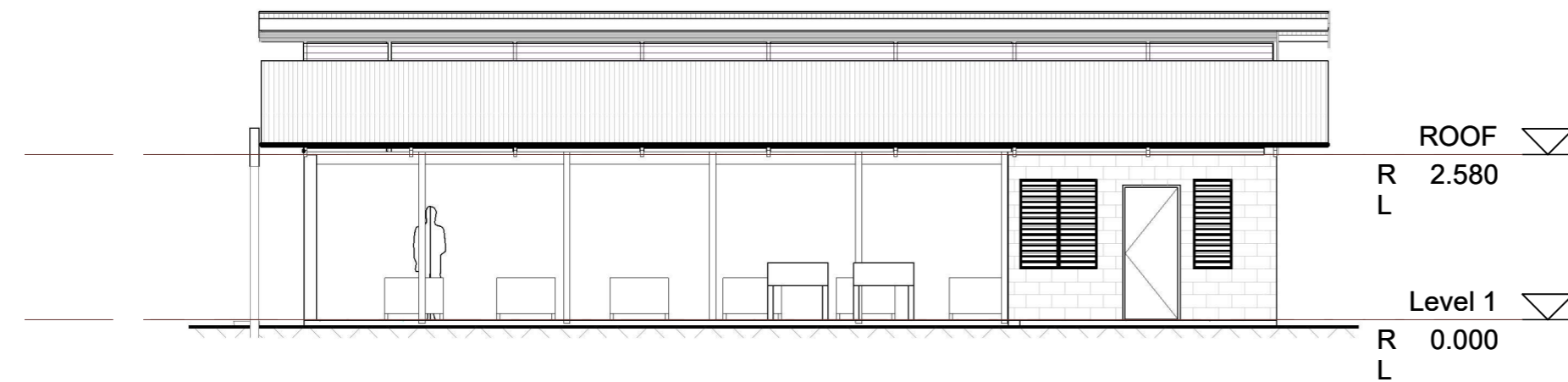
**1** DORMITORY FRONT VIEW

Scale: 1 : 100



**2** RECREATION AREA FRONT VIEW

Scale: 1 : 100



**3** TOILET FRONT VIEW

Scale: 1 : 100

**TDS**  
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**TEMEERIA MALE WARD  
 PHASE 2**

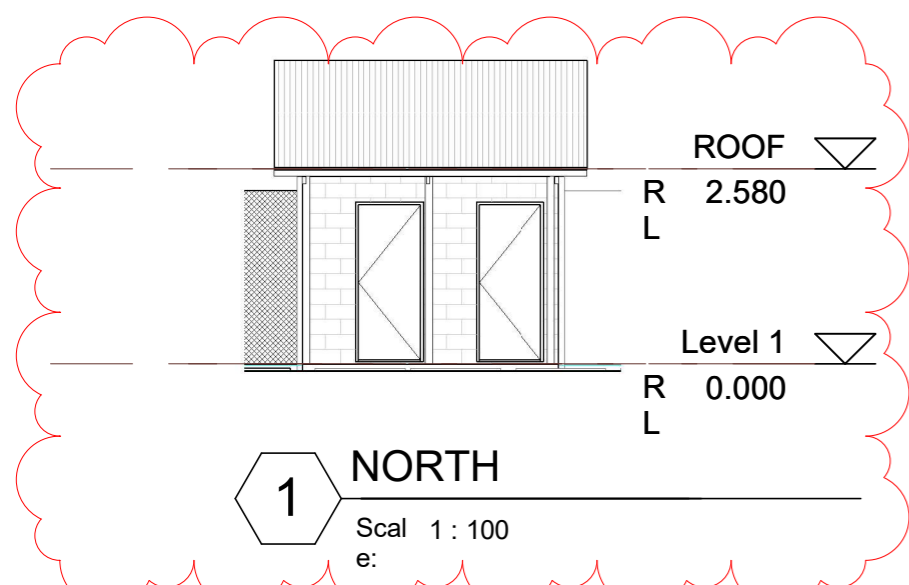
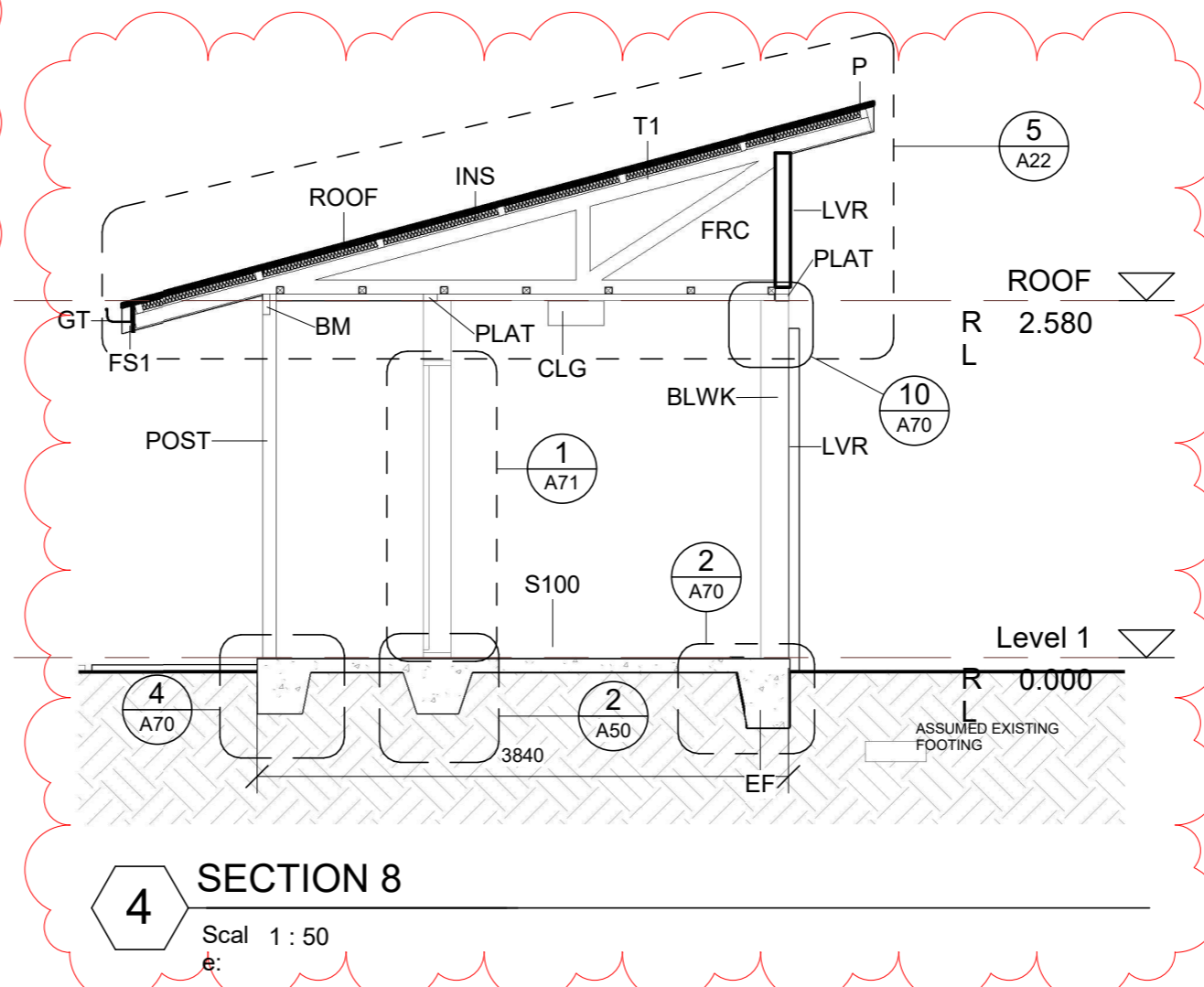
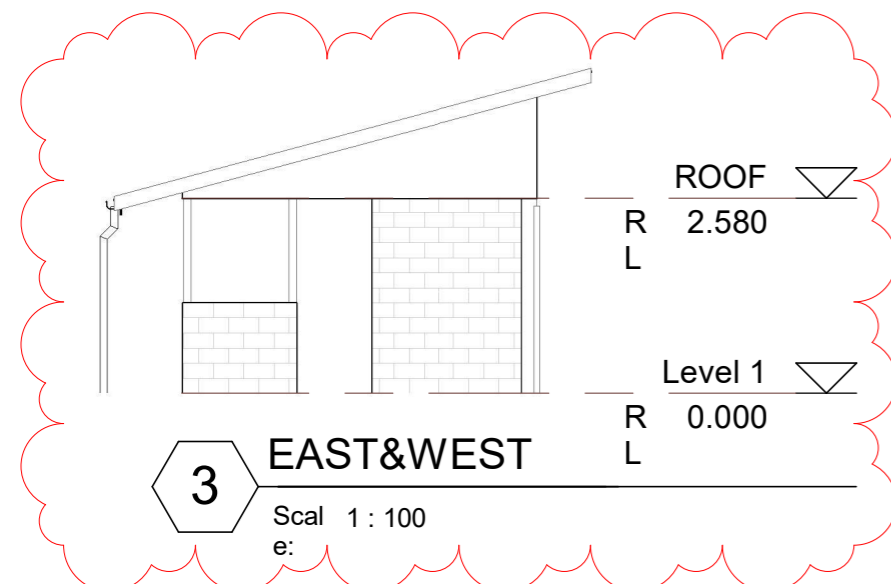
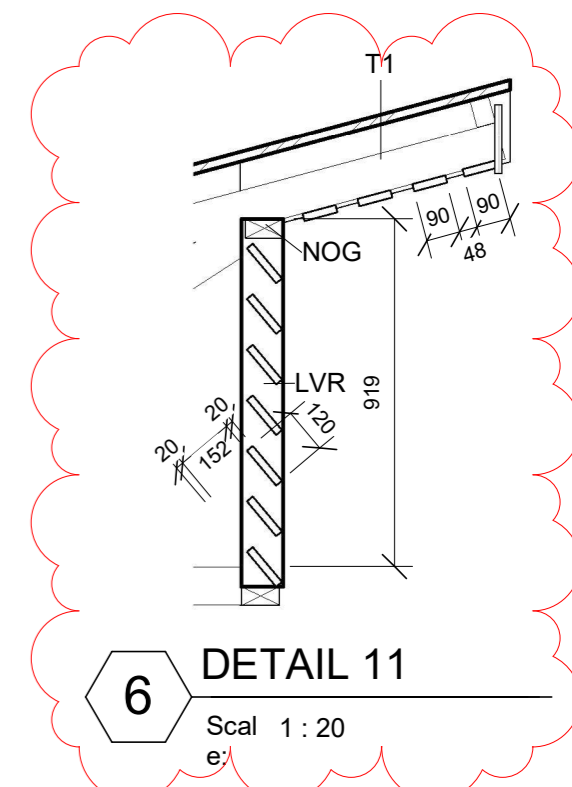
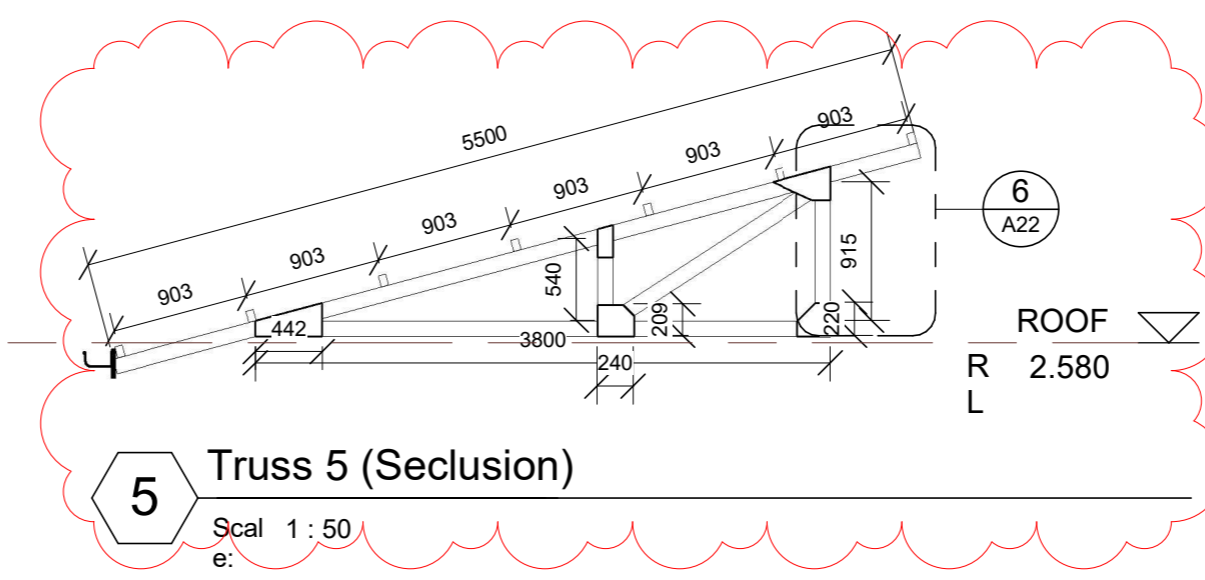
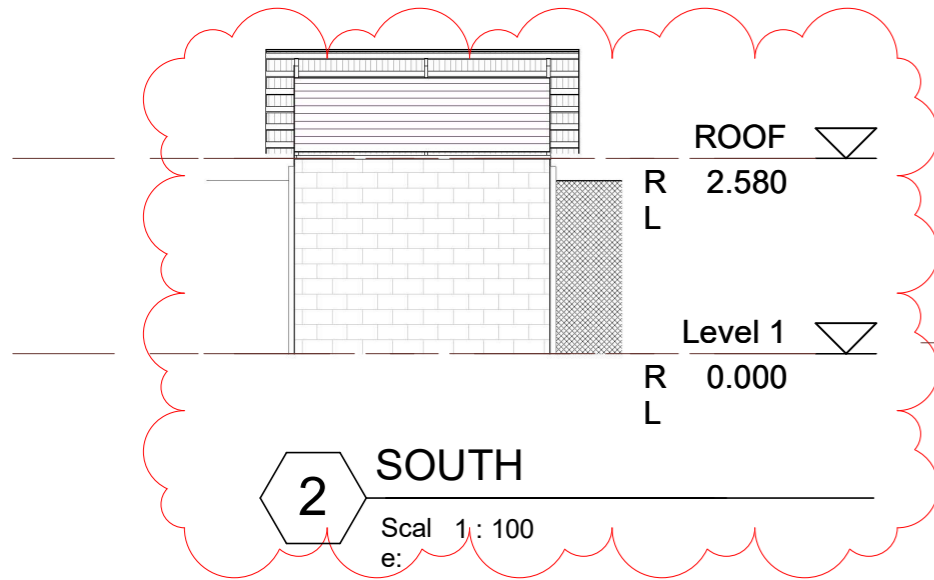
CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**FRONT ELEVATIONS**

DRAWN BY: T.Titaake  
 REVIEWED BY: P.T/T.T/T.M  
 DATE: 04/05/17  
 SCALE: 1 : 100

DRAWING NUMBER: ISSUE:

**A21**



1 Additional Seclusions to Phase 1 22/11/21

**TDS**  
 TECHNICAL DESIGN SECTION  
 MINISTRY OF INFRASTRUCTURE &  
 SUSTAINABLE ENERGY  
 PO BOX 498  
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**TEMEERIA MALE WARD  
 PHASE 2**

CLIENT: MHMS  
 PROJECT NO: 031601

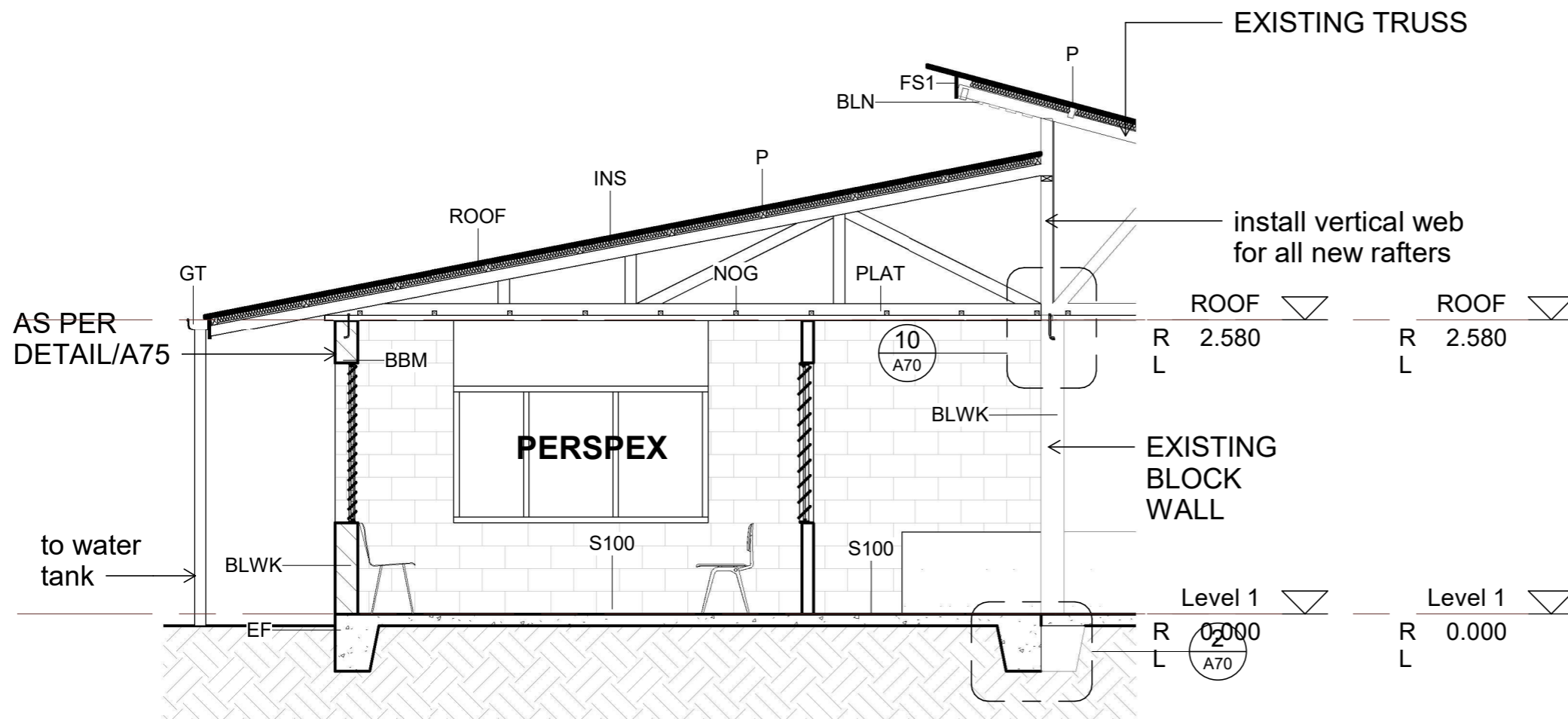
DWG TITLE:  
**ADDITIONAL  
 SECLUSIONS DETAILS**

DRAWN BY: KB  
 REVIEWED BY: BR  
 DATE: 11/22/21  
 SCALE: As indicated

DRAWING NUMBER: **A22** ISSUE: **1**

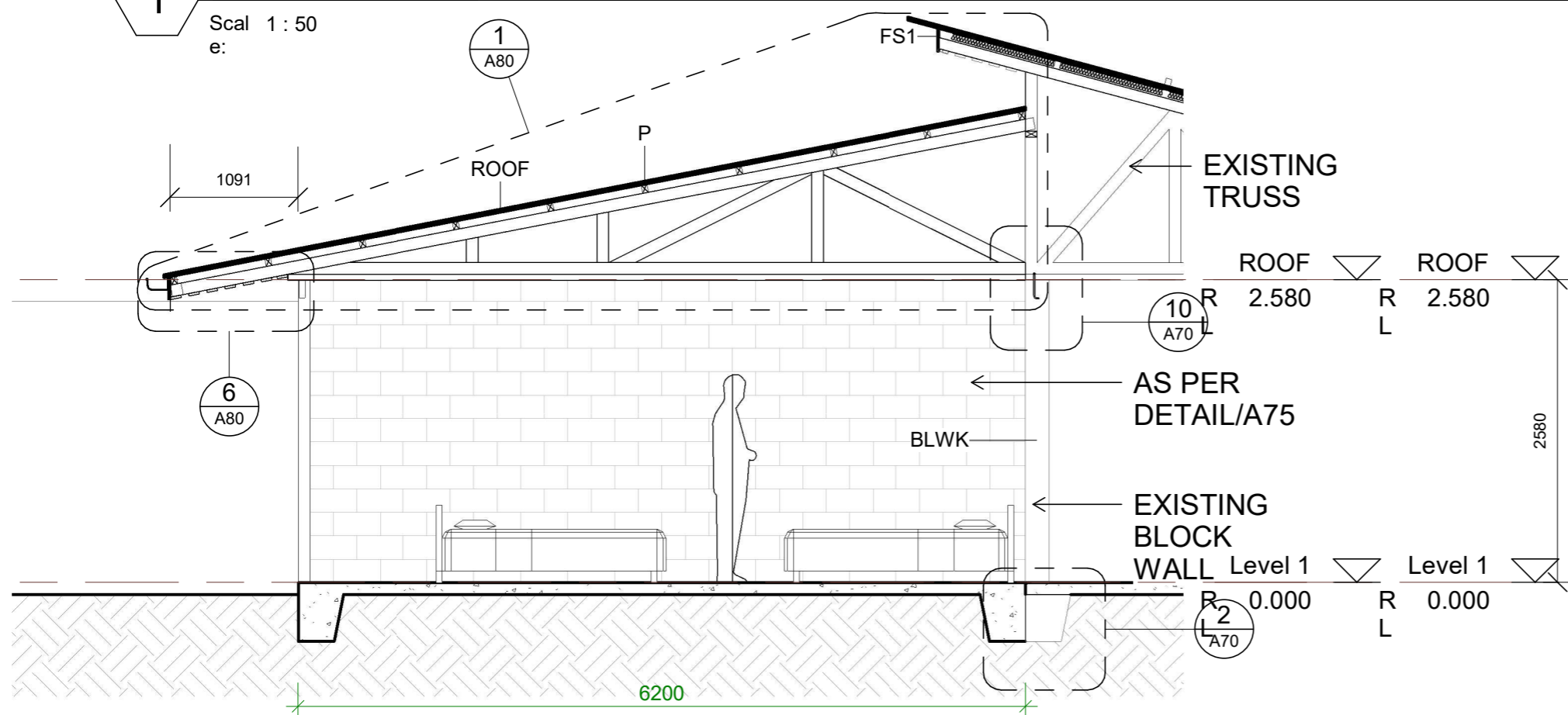
LEGEND

BBM	
BLN	SOFFIT/EAVES LINING 90X20mm TIMBER BATTENS AT 100mm MAX CENTRES NAILED TO UNDERSIDE OF TRUSSES AND/OR PURLINS.
BLWK	REINFORCED CONCRETE BLOCKWORK
EF	Edge Footing
FS1	FASCIA (OR BARGE) BOARD 200X20mm
GT	100MMX120MM STEEL GUTTER AT 1:200 FALL MINIMUM
INS	ROOF INSULATION HELD IN PLACE WITH MESH
NOG	50X50 CEILING NOGGINGS 600mm CENTRES MAX BOTH WAYS with FIBRE CEMENT CEILING.
P	50X75 PURLINS @ 900mm CENTRES MAX
PLAT	150X50mm TIMBER PLATE (OR FOR PLATES ON BOND BEAM, FIX WITH HOLDING DOWN BOLT OR 12MM DIA THREADED ROD WELDED OR TIED TO REINFORCING @ 1200mm CENTRES)
ROOF	CORRUGATED GALVANISED ROOFING SHEET - ZINCALUM FINISH - SCREW TO PURLIN
S100	100mm THICK CONCRETE SLAB REINFORCED WITH 200x200x10mm dia MESH laid at mid of the slab. SLAB ON POLYTHENE



1 SECTION 1

Scal 1 : 50  
e:



2 SECTION 2

Scal 1 : 50  
e:

1 Additional Sections to Phase 1 22/11/21

**TDS**

TECHNICAL DESIGN SECTION  
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**TEMEERIA MALE WARD  
PHASE 2**

CLIENT: MHMS  
PROJECT NO: 031601

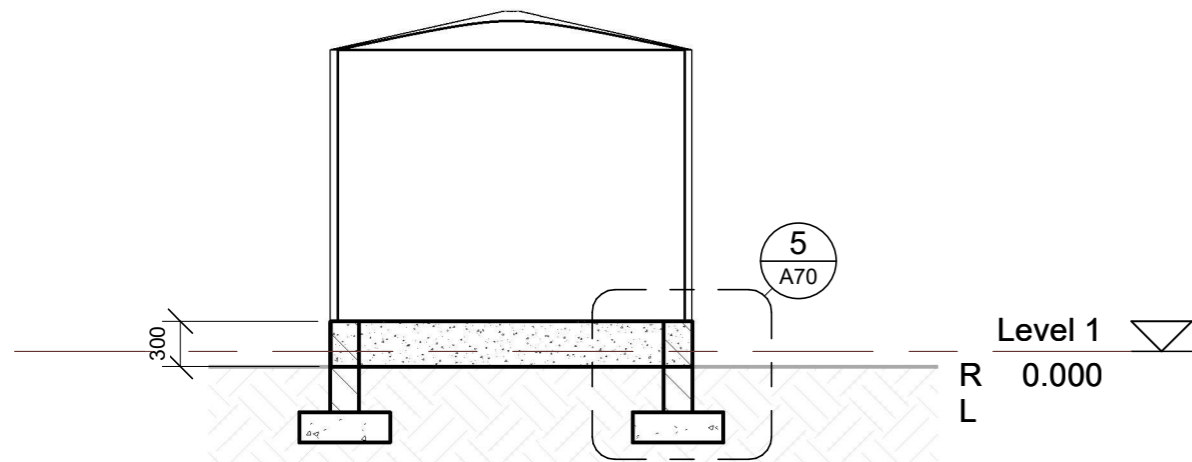
DWG TITLE:  
**SECTIONS - 1 & 2**

DRAWN BY: T.Titaake  
REVIEWED BY: P.T/T.T.M  
DATE: 04/05/17  
SCALE: 1 : 50

DRAWING NUMBER: ISSUE:

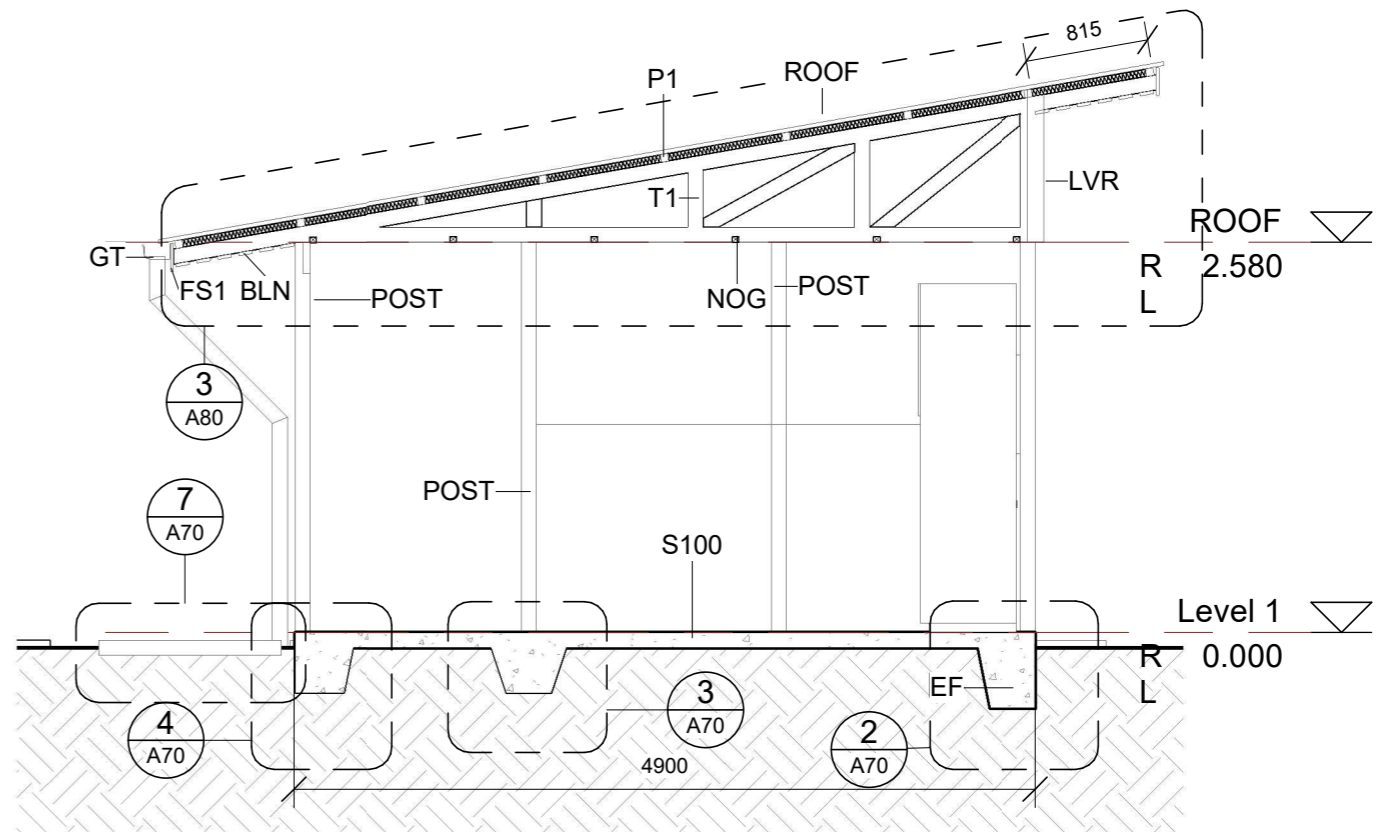
A50

1



**1 SECTION 3 - TANK BASE**

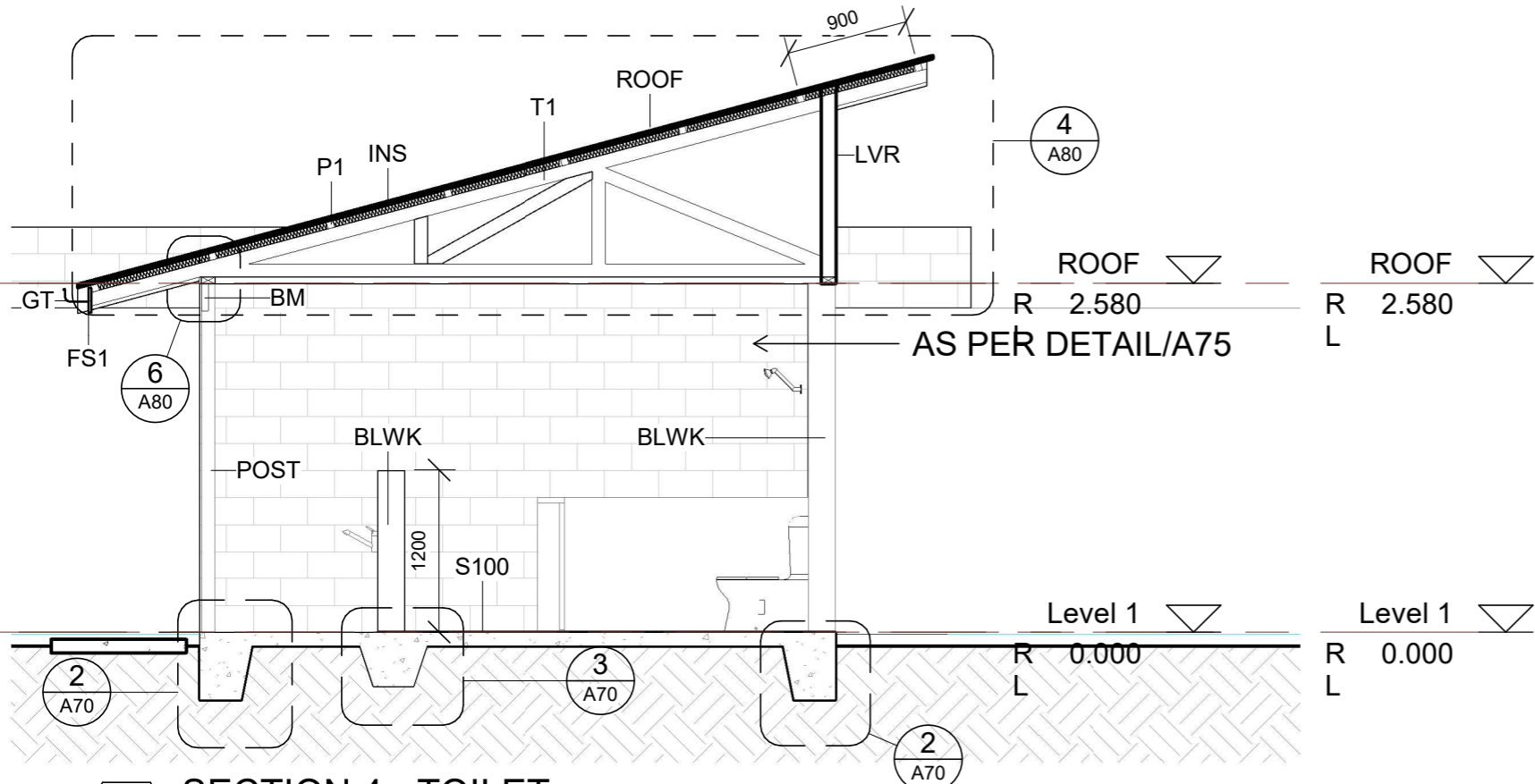
Scale: 1:50  
e:



**5 SECTION 5 - KITCHEN**

Scale: 1:50  
e:

**LEGEND**



**4 SECTION 4 - TOILET**

Scale: 1:50  
e:

- BLN SOFFIT/EAVES LINING 90X20mm  
TIMBER BATTENS AT 100mm MAX  
CENTRES NAILED TO UNDERSIDE OF  
TRUSSES AND/OR PURLINS.
- BLWK REINFORCED CONCRETE BLOCKWORK
- BM BEAM 200X50MM  
BOLTED(bolt-120x12mm)TO POST
- EF Edge Footing
- FS1 FASCIA (OR BARGE) BOARD 200X20mm
- GT 100MMX120MM STEEL GUTTER AT  
1:200 FALL MINIMUM
- INS ROOF INSULATION HELD IN PLACE  
WITH MESH
- LVR FIXED TIMBER LOUVRES 20mm THICK  
PAINTED FINISH (NUBERS SHOWN TO  
BE EQUALLY SPACED)
- NOG 50X50 CEILING NOGGINGS 600mm  
CENTRES MAX BOTH WAYS with FIBRE  
CEMENT CEILING.
- P1 50X50 PURLINS @ 900mm CENTRES  
MAX
- POST 100X100mm TREATED TIMBER POST  
BOLTED(110X12mm) TO U STEEL  
BRACKETS 100x100x6mm(FIXED TO  
PAD WITH 4no. DYNABOLTS 50x16mm).  
TOP FIXED TO BEAM WITH 2nos BOLTS  
200x18mm.
- ROOF CORRUGATED GALVINISED ROOFING  
SHEET - ZINCALUM FINISH - SCREW TO  
PURLIN
- S100 100mm THICK CONCRETE SLAB  
REINFORCED WITH 200x200x10mm dia  
MESH laid at mid of the slab. SLAB ON  
POLYTHENE
- T1 TRUSS ALL MEMBERS 100X50.

1 Additional Seclusions to Phase 1 22/11/21

## TDS

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**TEMEERIA MALE WARD  
PHASE 2**

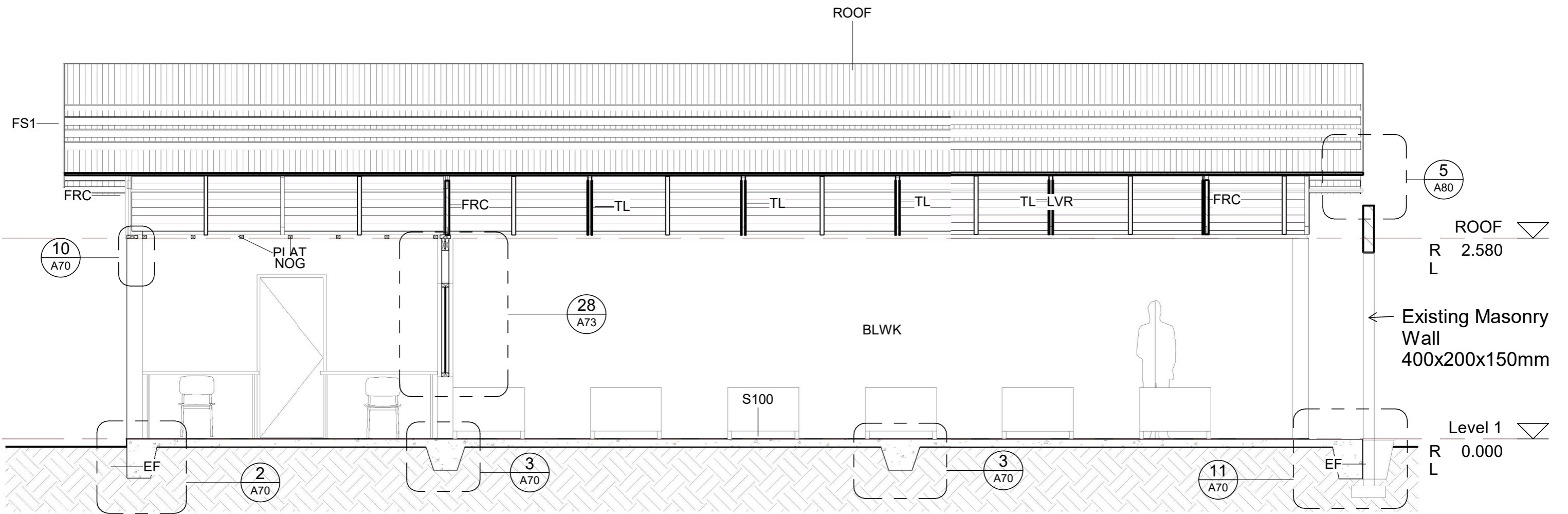
CLIENT: MHMS  
PROJECT NO: 031601

DWG TITLE:  
**SECTION 3 - 5**

DRAWN BY: T.Titaake  
REVIEWED BY:P.T/T.T/T.M  
DATE: 04/05/17  
SCALE: 1:50

DRAWING NUMBER: ISSUE:

**A51** **1**



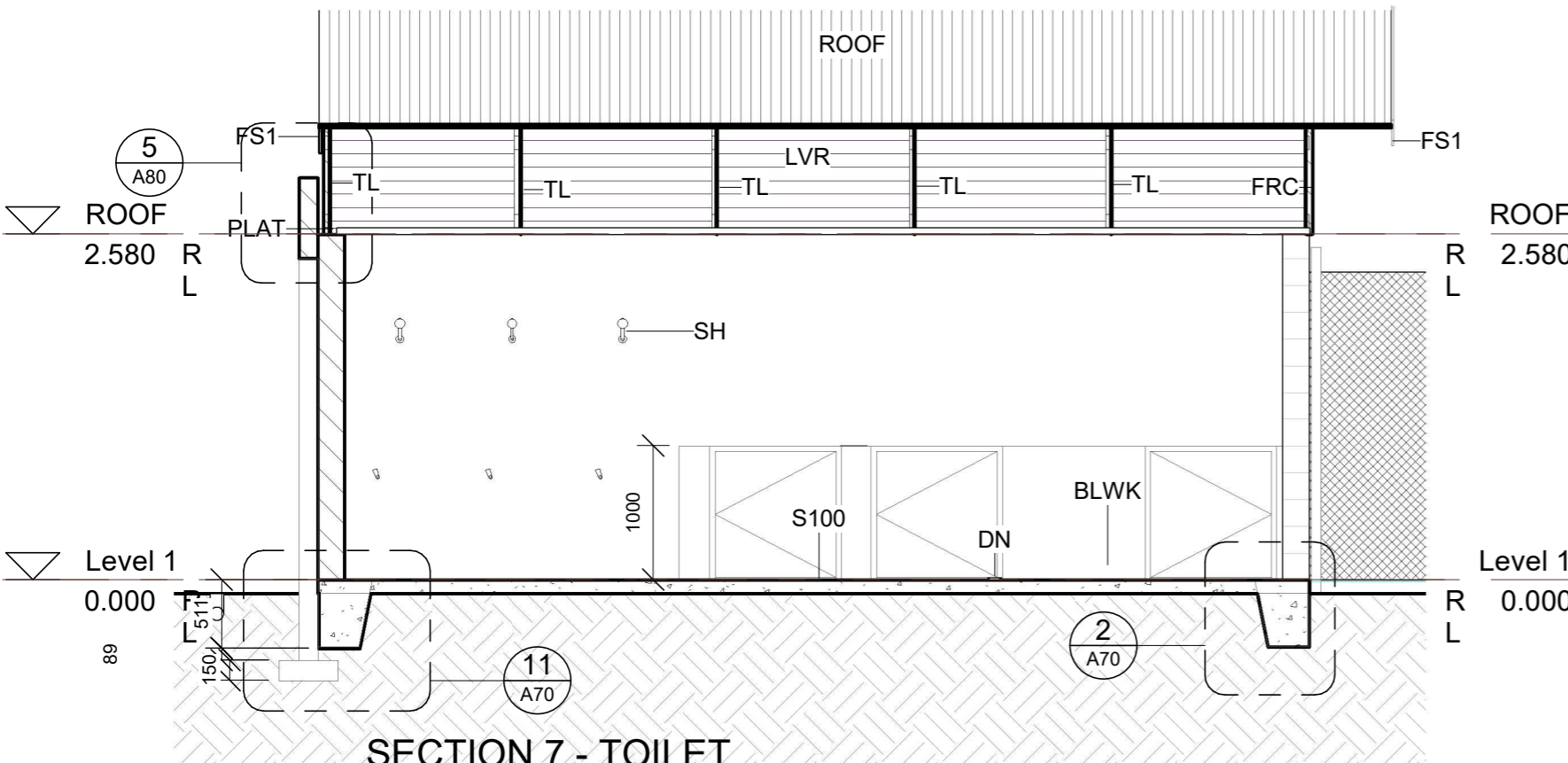
**SECTION 6 - DORIMITORY  
LONGITUDINAL**

**6**

Scale 1 : 50  
e:

**LEGEND**

- BLWK REINFORCED CONCRETE BLOCKWORK
- DN 100mm DRAINAGE PIPE WITH CAP, CONNECTED TO SEWER.
- EF Edge Footing
- FRC FIBRE CEMENT SHEET CLADDING
- FS1 FASCIA (OR BARGE) BOARD 200X20mm
- LVR FIXED TIMBER LOUVRES 20mm THICK PAINTED FINISH (NUMBERS SHOWN TO BE EQUALLY SPACED)
- NOG 50X50 CEILING NOGGINGS 600mm CENTRES MAX BOTH WAYS with FIBRE CEMENT CEILING.
- P1 50X50 PURLINS @ 900mm CENTRES MAX
- PLAT 150X50mm TIMBER PLATE (OR FOR PLATES ON BOND BEAM, FIX WITH HOLDING DOWN BOLT OR 12MM DIA THREADED ROD WELDED OR TIED TO REINFORCING @ 1200mm CENTRES)
- ROOF CORRUGATED GALVINISED ROOFING SHEET - ZINCALUM FINISH - SCREW TO PURLIN
- S100 100mm THICK CONCRETE SLAB REINFORCED WITH 200x200x10mm dia MESH laid at mid of the slab. SLAB ON POLYTHENE
- SH SELETED SHOWER UNIT.
- TL TRUSS LINING PLY 4MM ON BOTH SIDES



**SECTION 7 - TOILET  
LONGITUDINAL**

**7**

Scale 1 : 50  
e:

**TDS**

TECHNICAL DESIGN SECTION  
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**TEMEERIA MALE WARD  
PHASE 2**

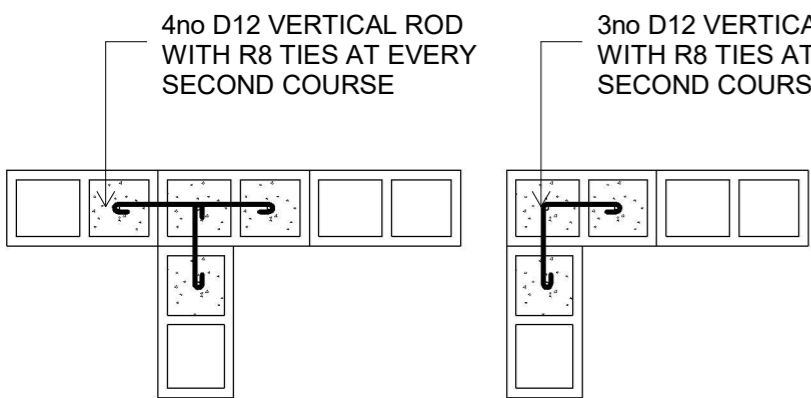
CLIENT: MHMS  
PROJECT NO: 031601

DWG TITLE:  
**SECTION 6 - 7**

DRAWN BY: T.Titaake  
REVIEWED BY: P.T/T.T/T.M  
DATE: 04/05/17  
SCALE: 1 : 50

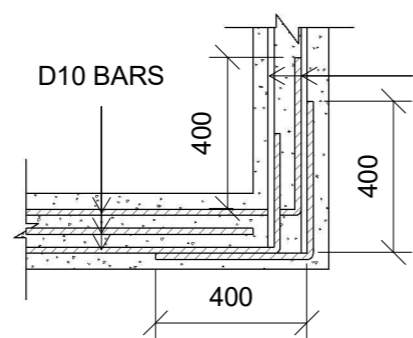
DRAWING NUMBER: ISSUE:

**A52**

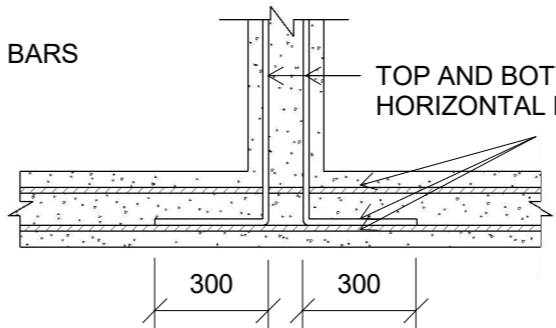


**INTERSECTION BLOCK BINDING DETAIL**  
SCALE-1:20

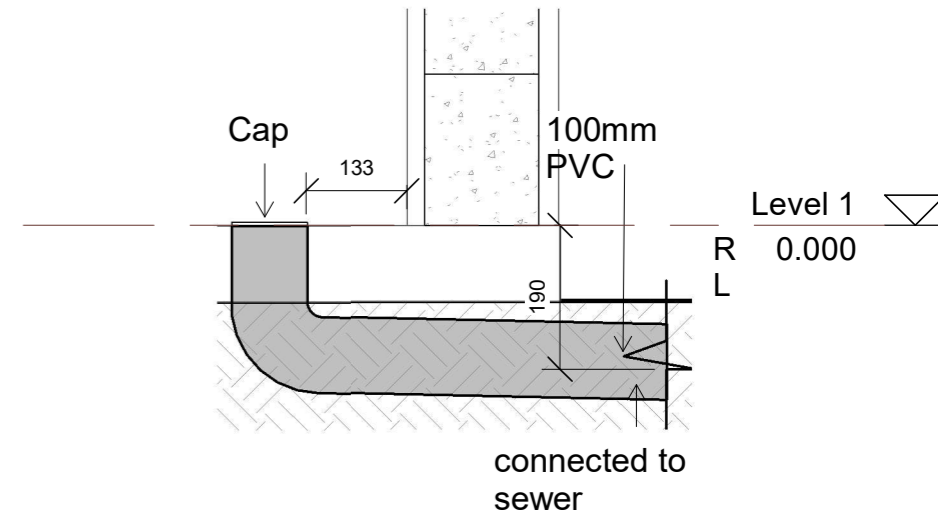
**CORNER BLOCK BINDING DETAIL**  
SCALE-1:20



**CORNER BOND BEAM BINDING DETAIL**  
SCALE-1:20

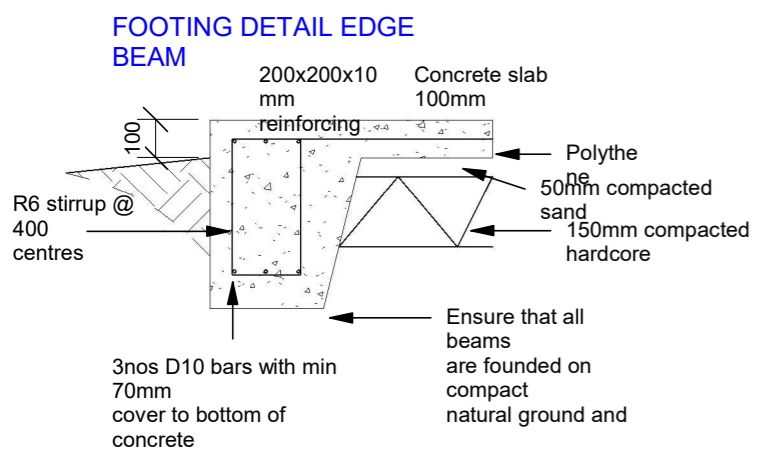


**INTERSECTION BOND BEAM BINDING DETAIL**  
SCALE-1:20

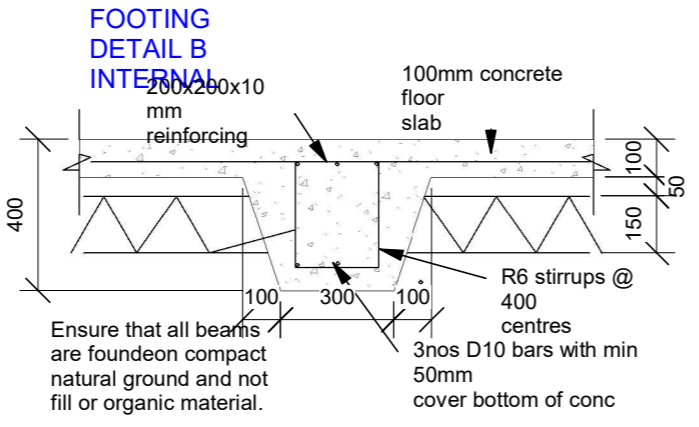


**9 Detail - Drainage**  
Scal 1 : 10  
e:

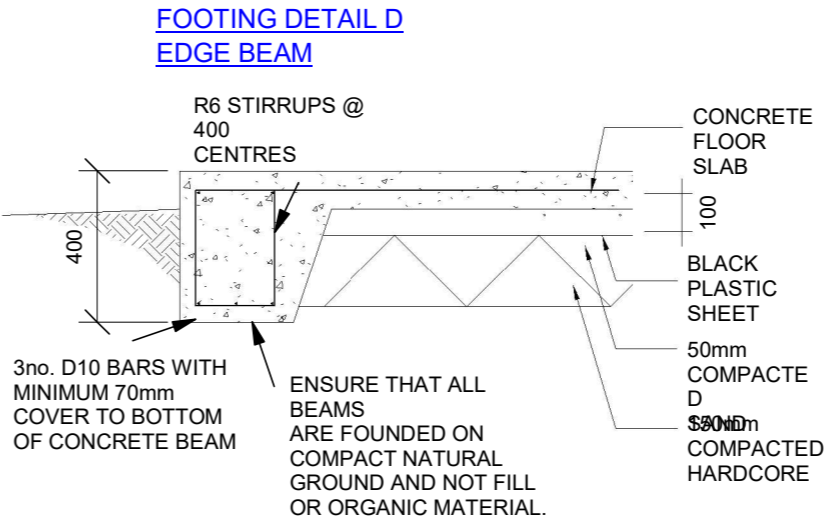
**1 BINDING DETAILS**  
Scal 1 : 20  
e:



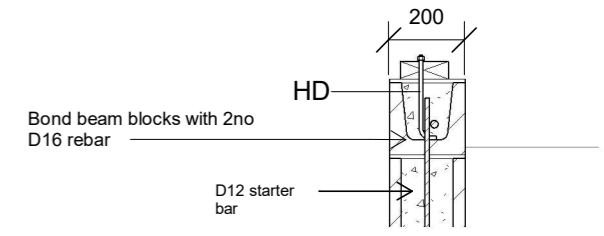
**2 Detail - Footing TYPE A**  
Scal 1 : 20  
e:



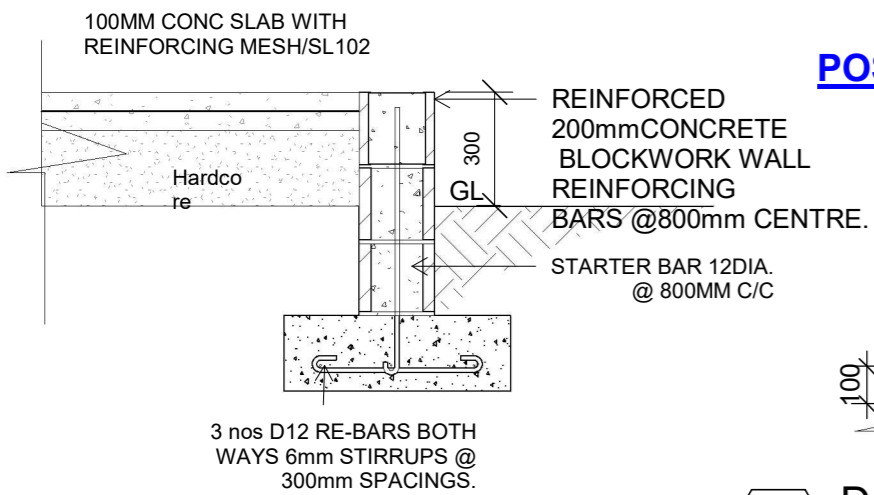
**3 Detail - Footing TYPE B**  
Scal 1 : 20  
e:



**4 Detail - Footing TYPE C**  
Scal 1 : 20  
e:

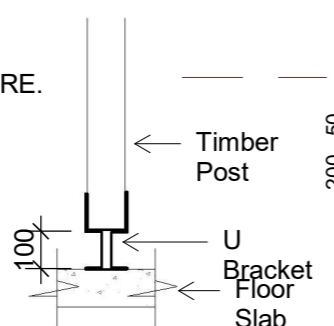


**10 BOND BEAM**  
Scal 1 : 20  
e:  
1 Additional Seclusions to Phase 1 22/11/21

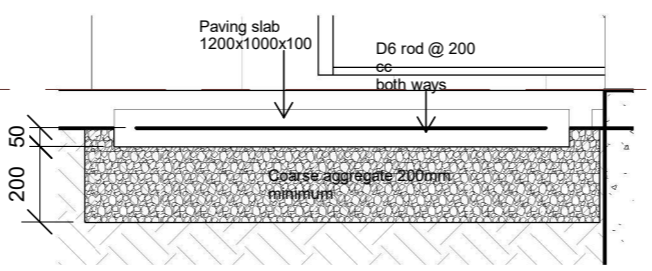


**5 Detail - Footing Type D**  
Scal 1 : 20  
e:

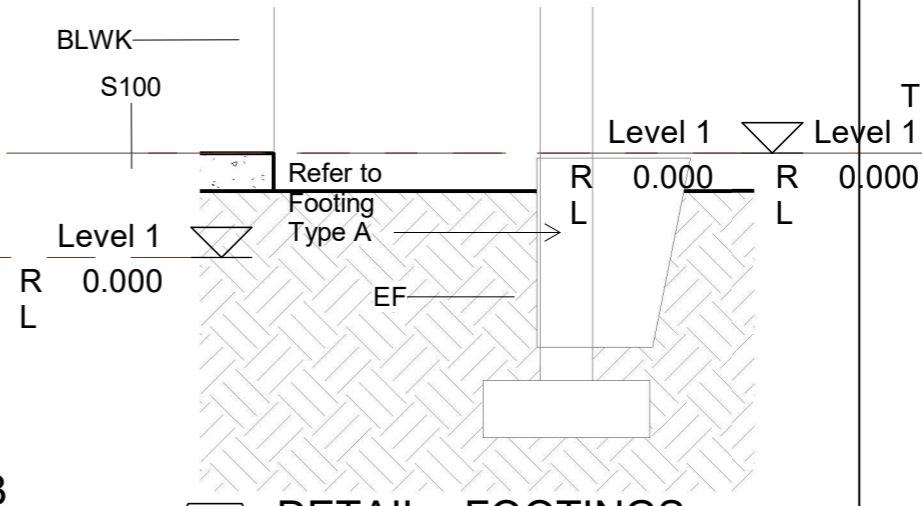
**POST**



**6 Detail - Posts**  
Scal 1 : 20  
e:



**7 DETAIL - PAVING SLAB**  
Scal 1 : 20  
e:



**11 DETAIL - FOOTINGS**  
Scal 1 : 20  
e:

**TDS**  
TECHNICAL DESIGN SECTION  
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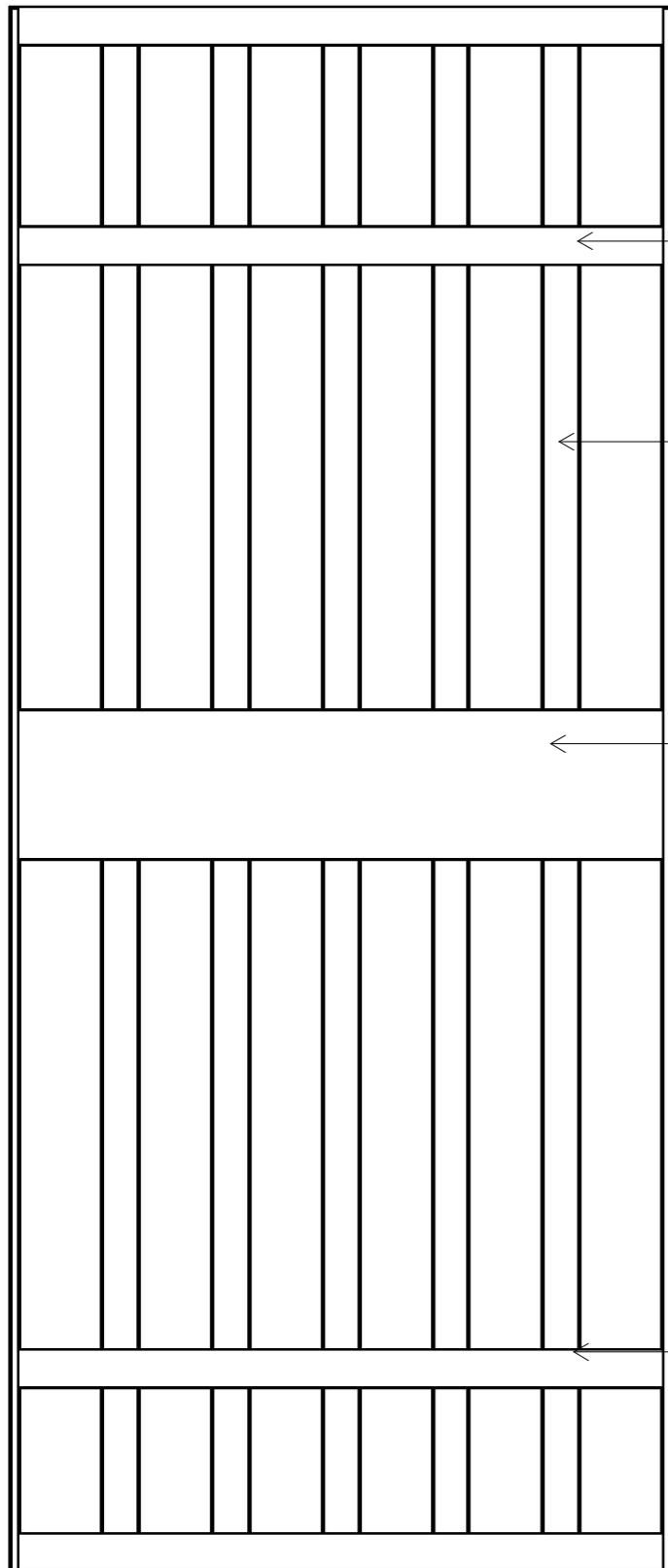
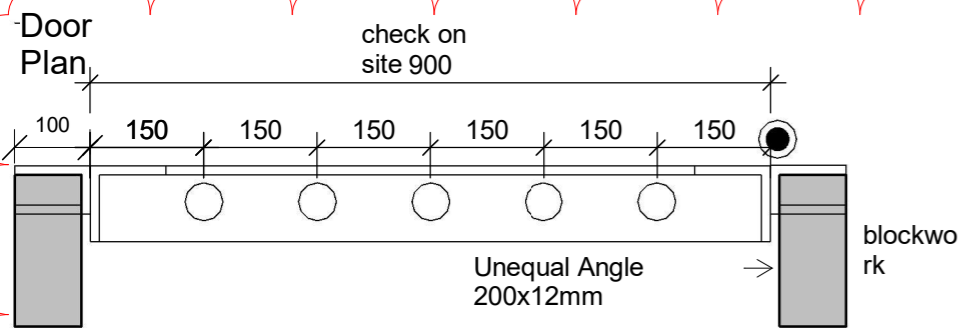
**TEMEERIA MALE WARD PHASE 2**

CLIENT: MHMS  
PROJECT NO: 031601

DWG TITLE:  
**DETAIL - FOOTING TYPES**

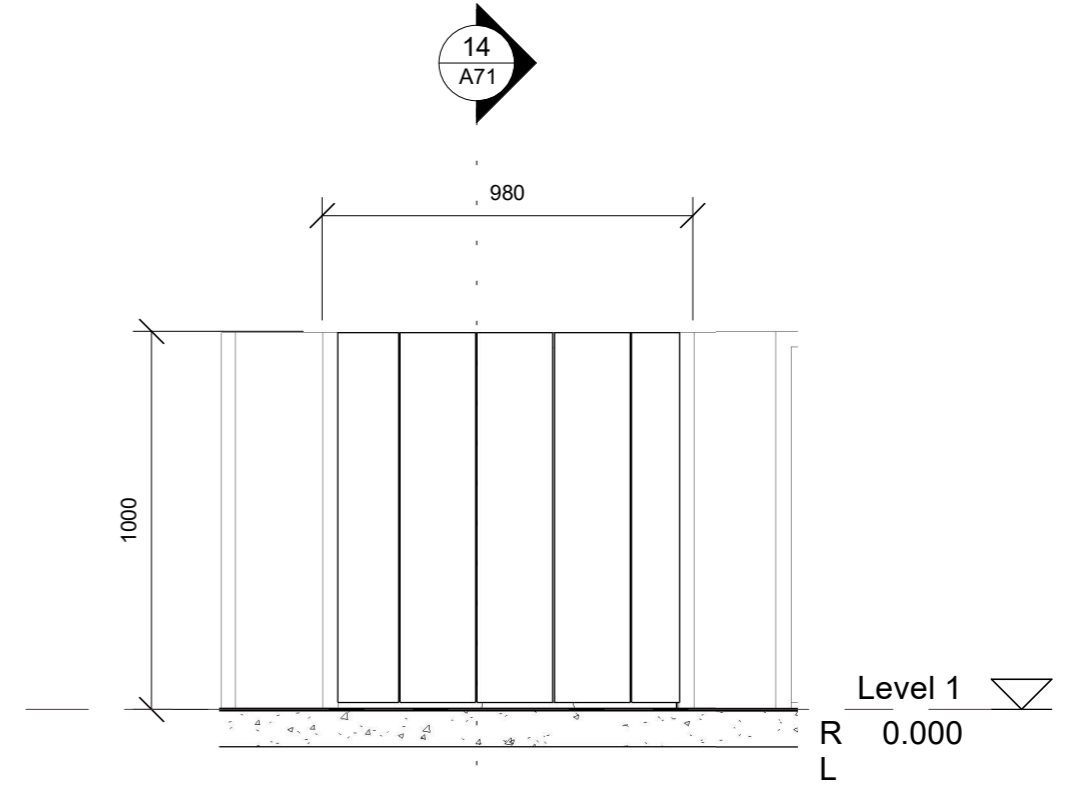
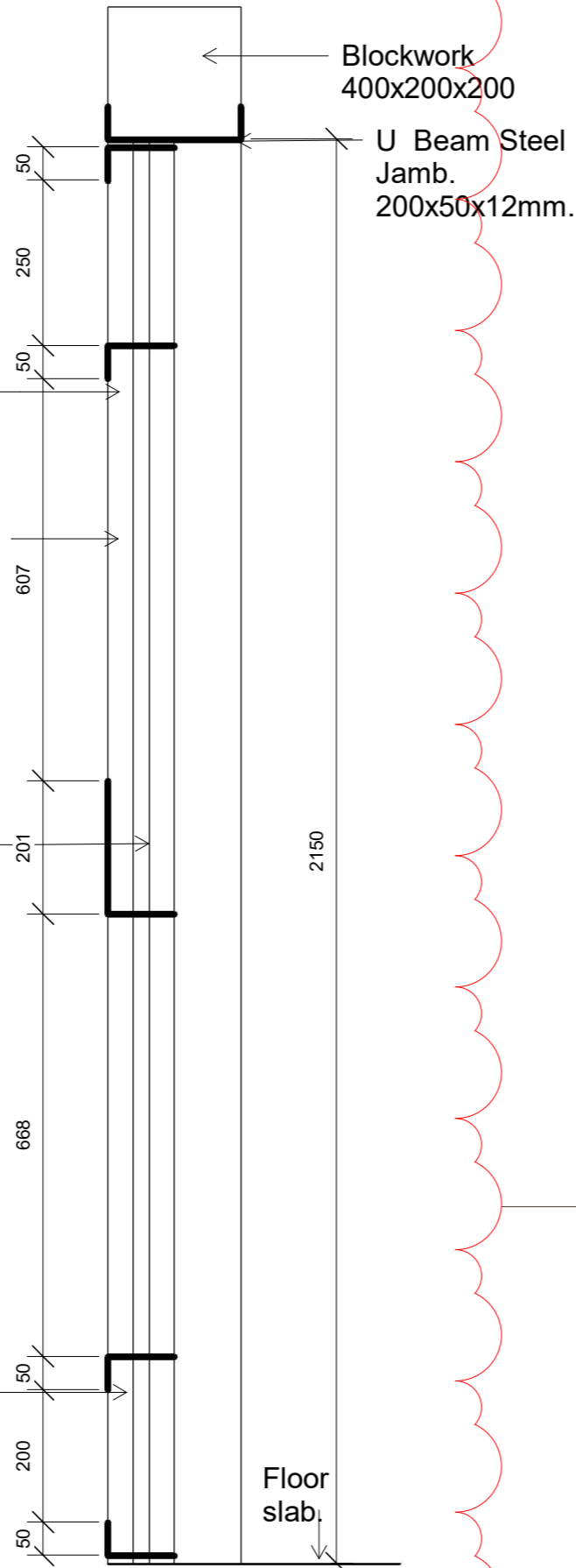
DRAWN BY: T.Titaake  
REVIEWED BY: P.T/T.T/T.M  
DATE: 04/05/17  
SCALE: As indicated

DRAWING NUMBER: A70  
ISSUE: 1



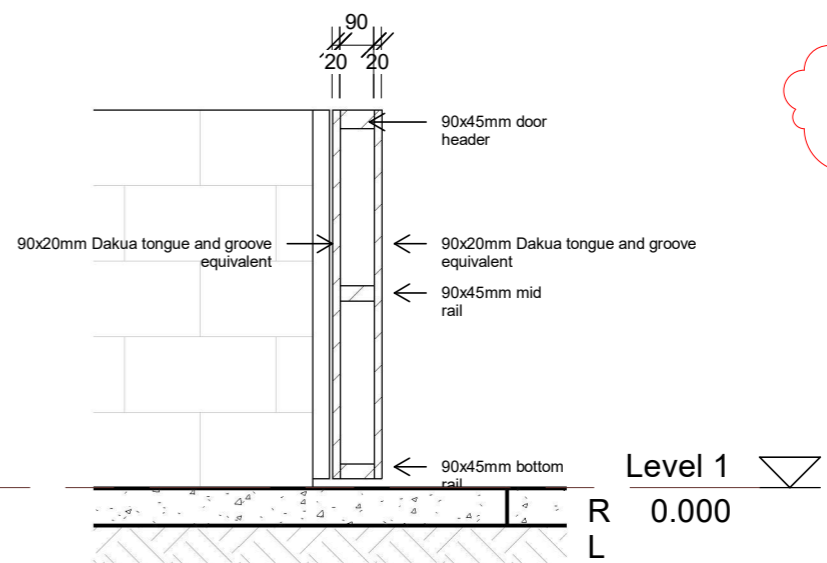
**1** SECLUSION DOOR

Scale: 1 : 10



**13** TOILET DOOR 16-18

Scale: 1 : 20



**14** SECTION TOILET DOOR 16-18

Scale: 1 : 20

1 Additional Seclusions to Phase 1 22/11/21

**TDS**

TECHNICAL DESIGN SECTION  
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**TEMEERIA MALE WARD PHASE 2**

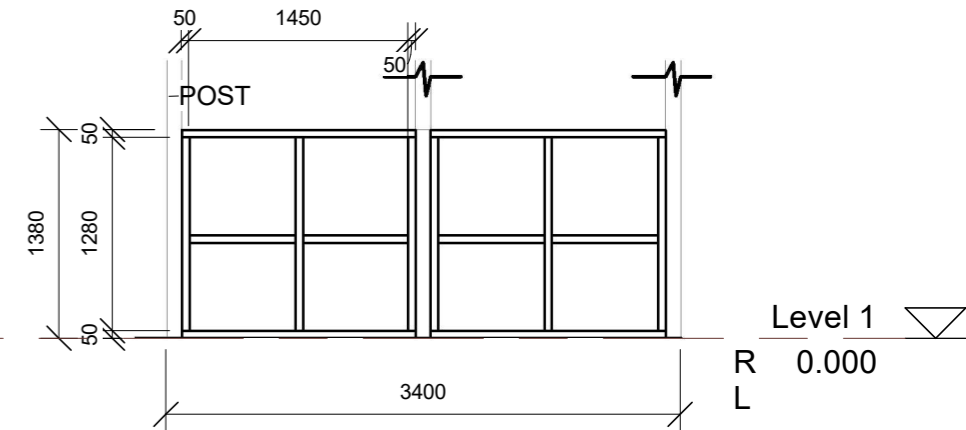
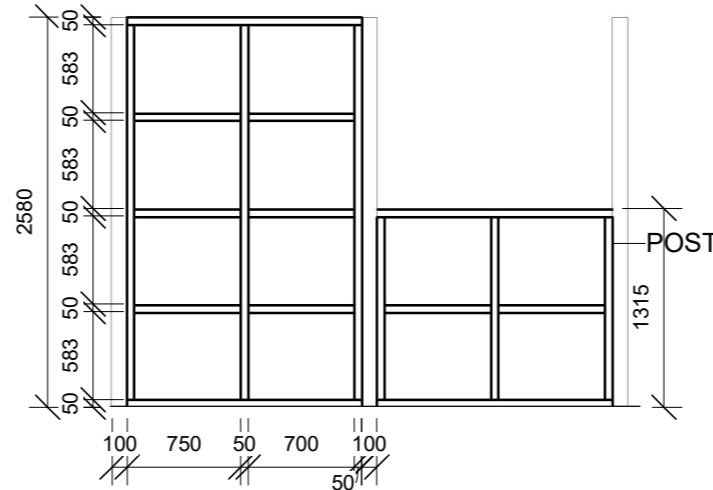
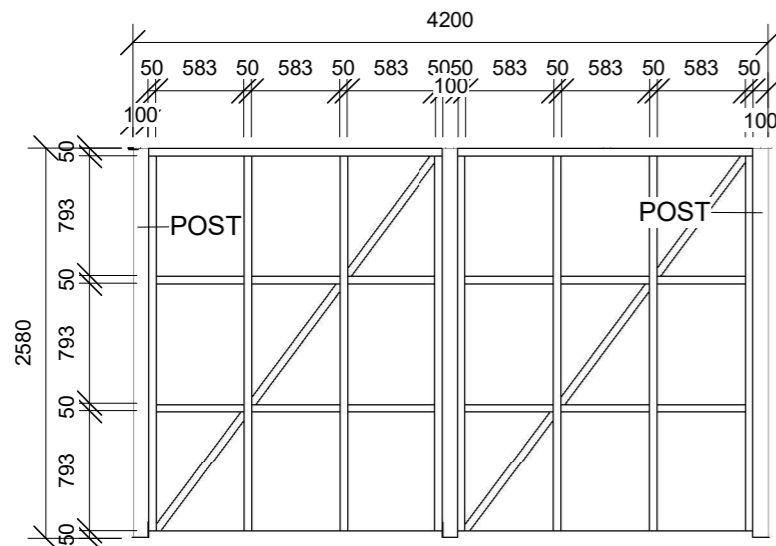
CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**DETAIL - DOOR**

DRAWN BY: T.Titaake  
 REVIEWED BY: P.T/T.T/T.M  
 DATE: 04/05/17  
 SCALE: As indicated

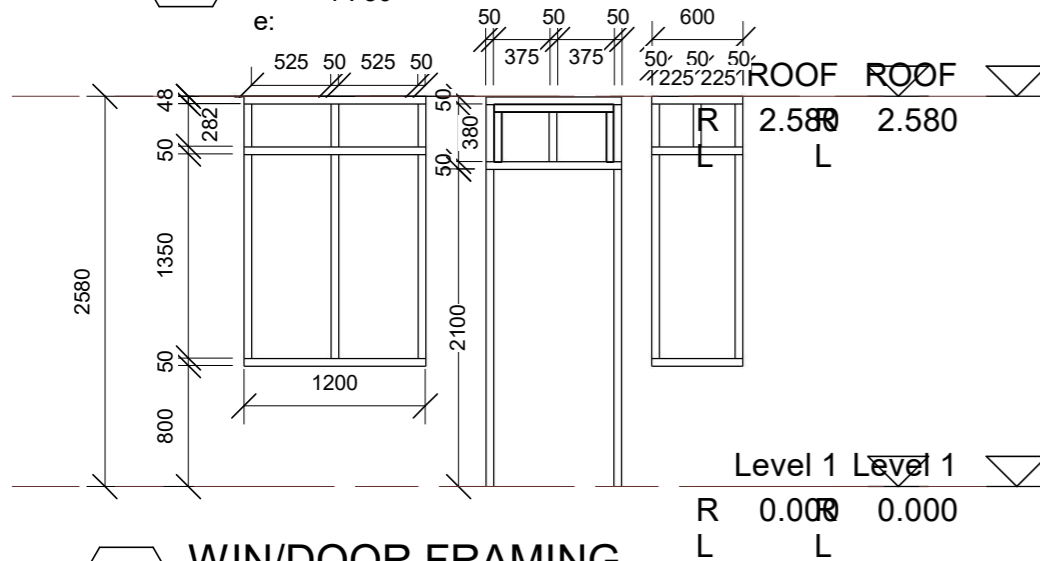
DRAWING NUMBER: A71  
 ISSUE: 1

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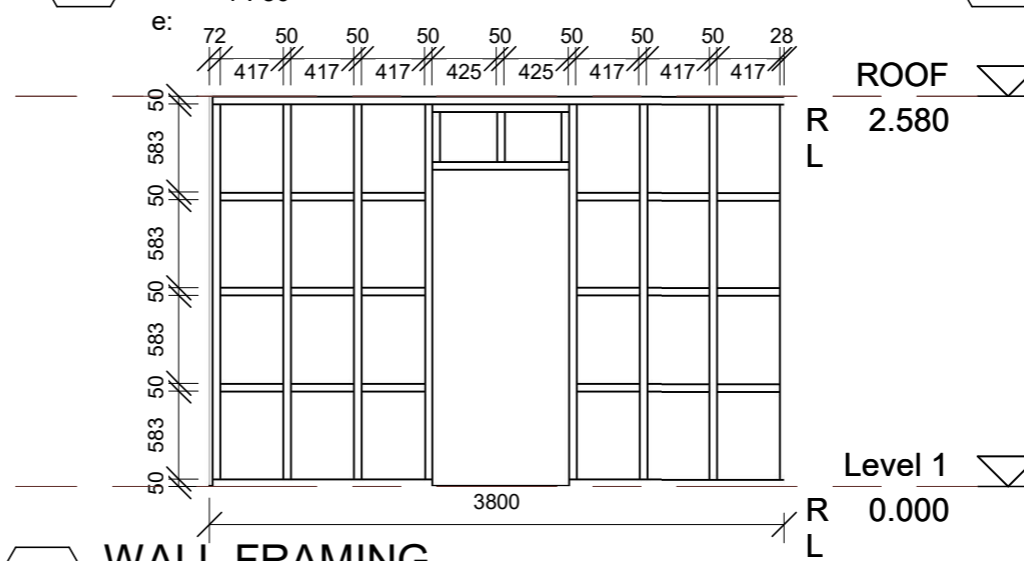
**16** DETAIL - W/FRAMING 1

Scal 1 : 50



**17** DETAIL - W/FRAMING 2

Scal 1 : 50



**18** DETAIL - W/FRAMING 3

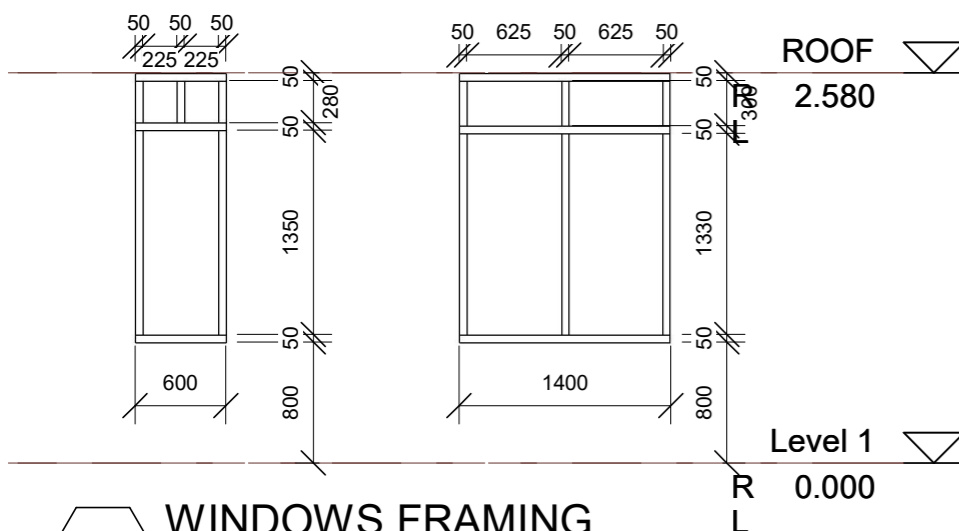
Scal 1 : 50



**NOTE : WALLS/WINDOWS & DOORS FRAMING**  
 PLATES - 100X50mm  
 STUDS - 100x50mm  
 NOGGING - 100X50mm  
 BRACING - 100X50mm

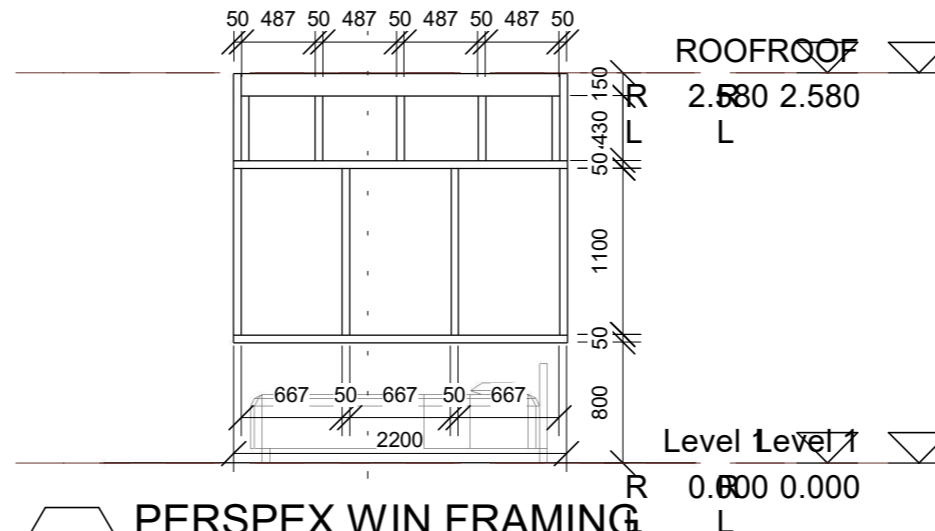
**19** WIN/DOOR FRAMING

Scal 1 : 50



**20** WALL FRAMING

Scal 1 : 50



**21** WINDOWS FRAMING

Scal 1 : 50

**22** PERSPEX WIN FRAMING

Scal 1 : 50

**TDS**  
 TECHNICAL DESIGN SECTION  
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**TEMEERIA MALE WARD PHASE 2**

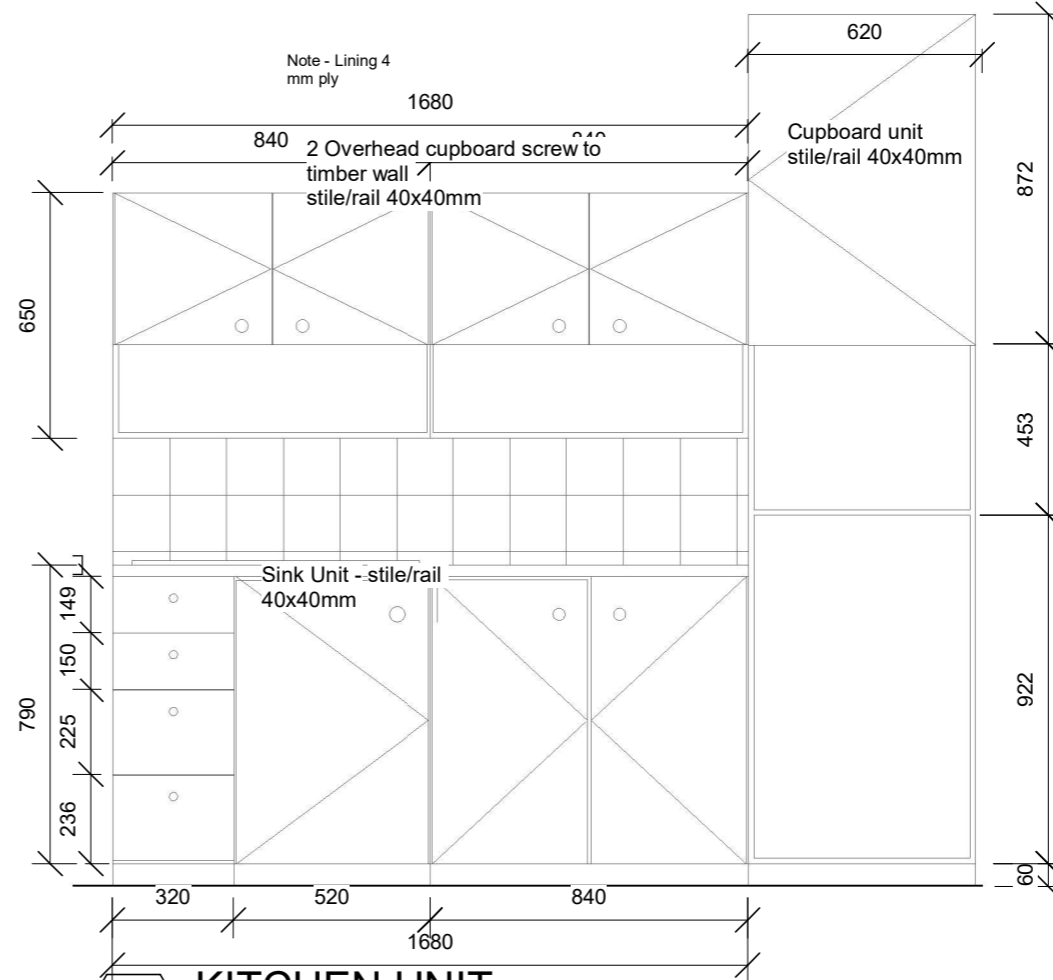
CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**DETAIL - TIMBER FRAMING**

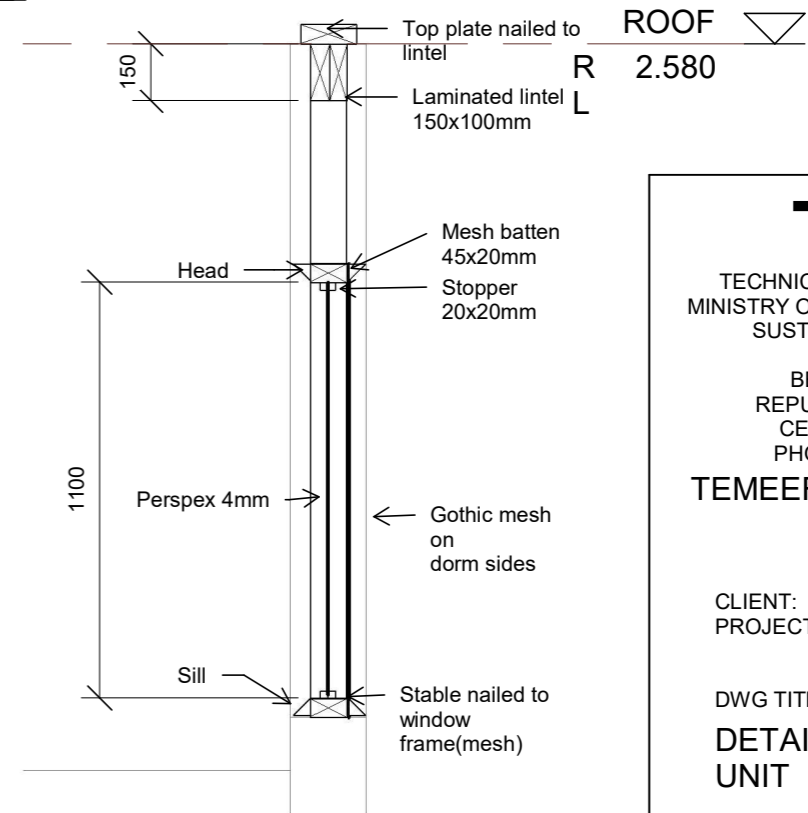
DRAWN BY: T.Titaake/KB  
 REVIEWED BY: P.T/T.T/M  
 DATE: 04/05/17  
 SCALE: 1 : 50

DRAWING NUMBER: ISSUE:

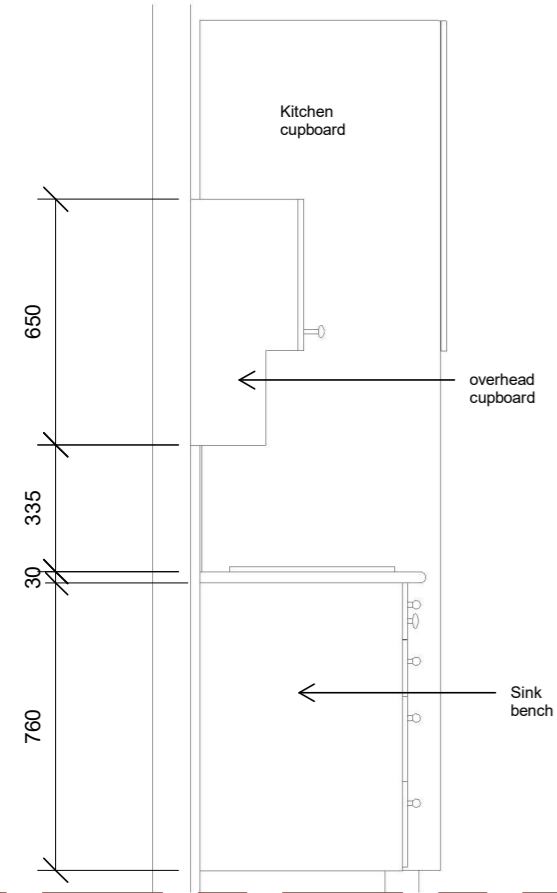
**A72**



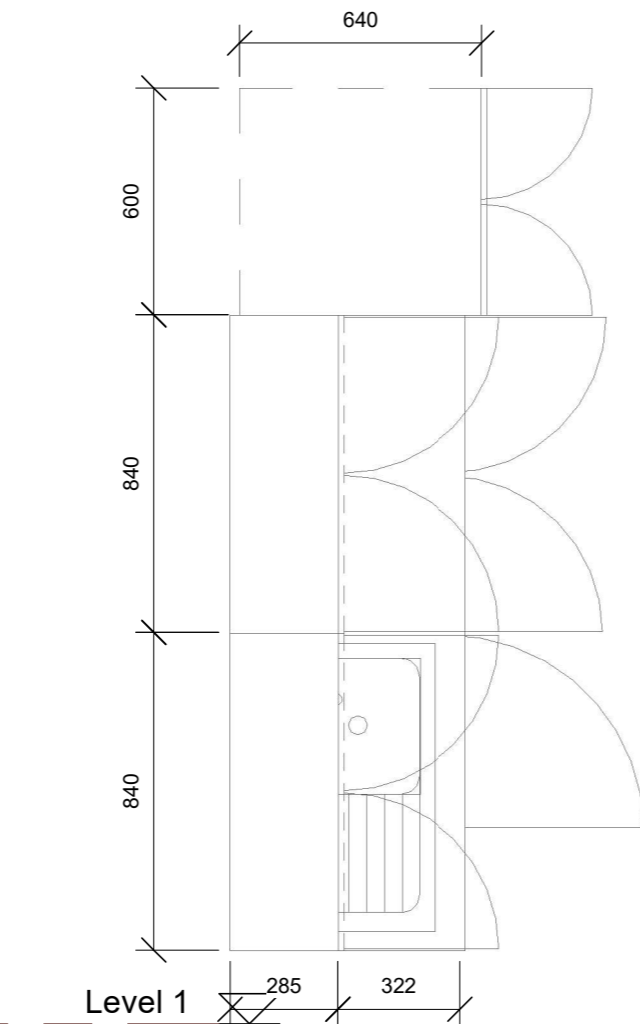
**24** KITCHEN UNIT  
 Scale: 1 : 20



**28** DETAIL - WIN 70  
 Scale: 1 : 20



**25** DETAIL - KITCHEN UNIT  
 Scale: 1 : 20



**26** KITCHEN UNIT  
 Scale: 1 : 20

ROOF  
 R 2.580

**TDS**  
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**TEMEERIA MALE WARD  
 PHASE 2**

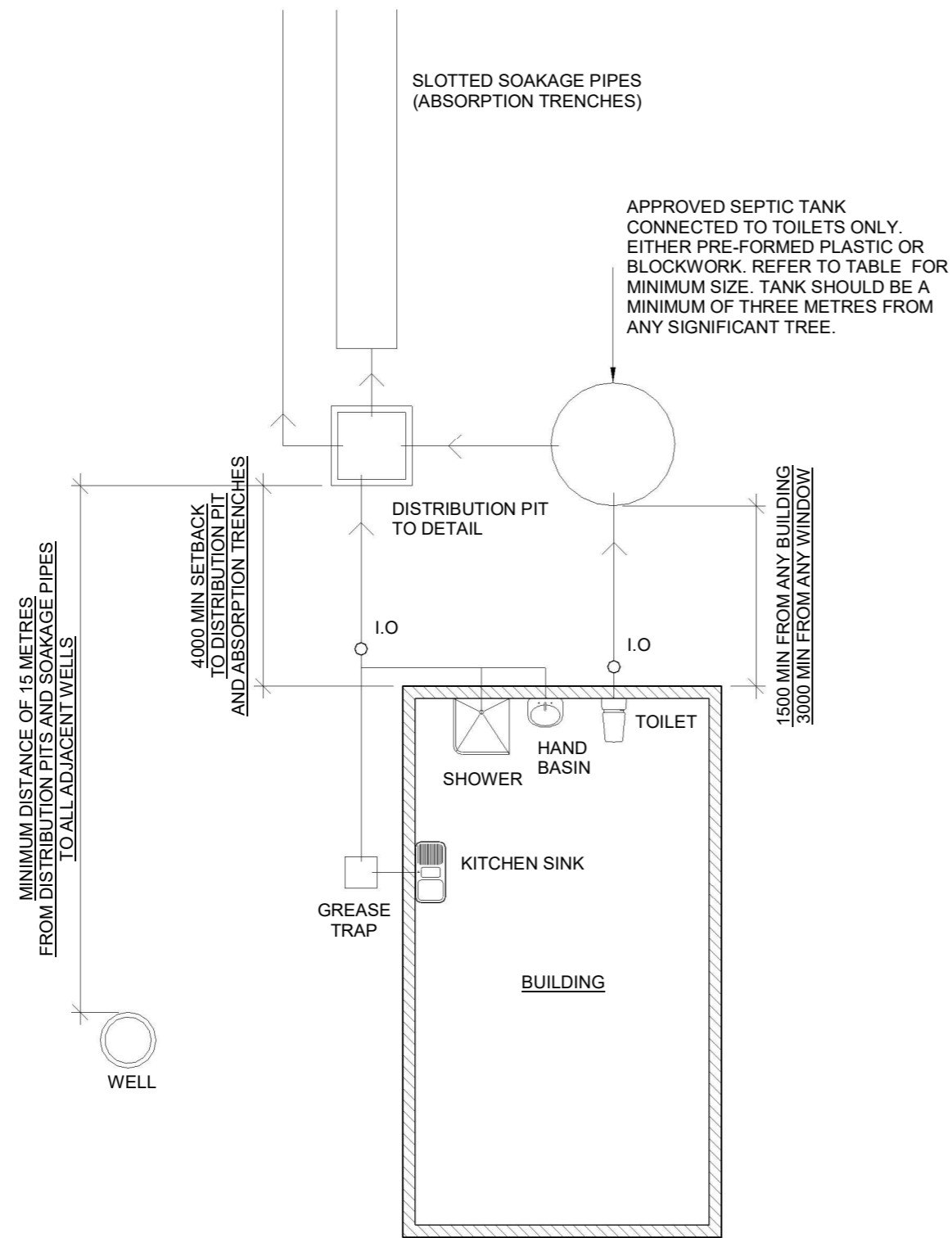
CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**DETAIL - KITCHEN  
 UNIT**

DRAWN BY: T.Titaake  
 REVIEWED BY: P.T/T.T/T.M  
 DATE: 04/05/17  
 SCALE: 1 : 20

DRAWING NUMBER: ISSUE:

**A73**



NOTE:  
 KITCHEN SINK WASTES FROM COMMERCIAL KITCHENS OR CATERING OPERATORS MUST PASS THROUGH AN APPROVED GREASE TRAP PRIOR TO BEEN DISCHARGED INTO THE DISTRIBUTION PIT.  
 GREASE PITS ARE NOT COMPULSORY FOR HOUSES.

REFER TO DFS2.2 FOR APPROVED DISTRIBUTION PIT DETAILS.  
 REFER TO DFS2.3 FOR APPROVED SEPTIC TANK DETAILS.  
 REFER TO DFS2.4 FOR APPROVED GREASE TRAP DETAILS.

**SEPTIC TANK & ABSORPTION TRENCH SIZES**

<u>USAGE</u>	<u>TANK VOLUME</u>	<u>TRENCHES</u>
<u>No. of people</u>	<u>kL (cubic metres)</u>	<u>length in metres</u>
<u>6</u>	<u>1.0</u>	<u>18</u>
<u>8</u>	<u>1.5</u>	<u>18</u>
<u>10</u>	<u>2.0</u>	<u>18</u>
<u>20</u>	<u>3.3</u>	<u>30</u>
<u>40</u>	<u>5.3</u>	<u>45</u>
<u>100</u>	<u>13.5</u>	<u>100</u>

SEPTIC TANKS MAY BE CONSTRUCTED FROM EITHER PRE-FORMED PLASTIC, REINFORCED CONCRETE OR REINFORCED CONCRETE BLOCKWORK

**30 Drainage Layout**  
 Scal 1 : 100  
 e:

**TDS**  
 TECHNICAL DESIGN SECTION  
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**TEMEERIA MALE WARD  
 PHASE 2**

CLIENT: MHMS  
 PROJECT NO: 031601

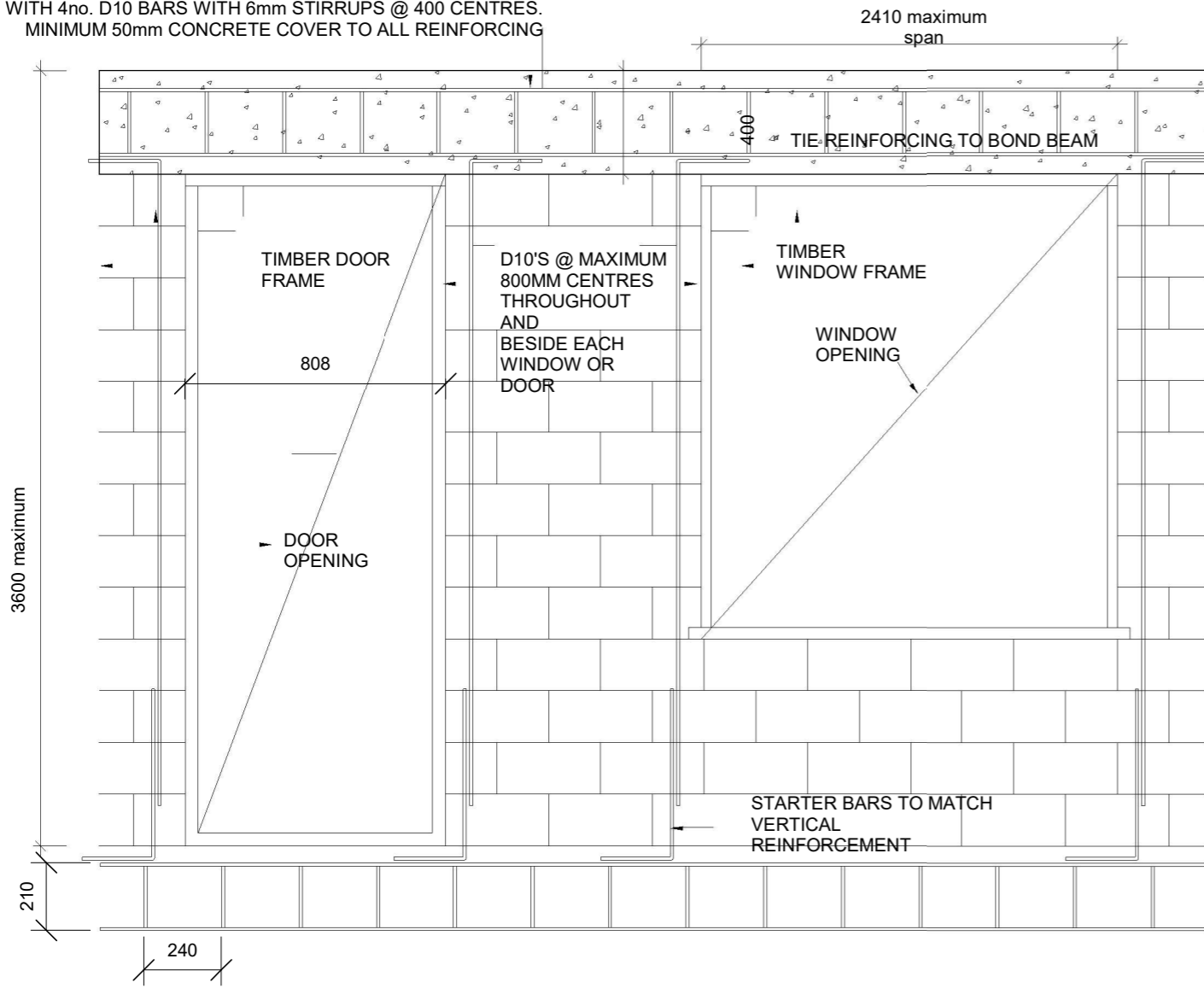
DWG TITLE:  
**DETAIL - DRAINAGE  
 LAYOUT**

DRAWN BY: T.Titaake  
 REVIEWED BY: P.T/T.T.M  
 DATE: 04/05/17  
 SCALE: 1 : 100

DRAWING NUMBER: ISSUE:

**A74**

CONCRETE BOND BEAM.  
 REINFORCE WITH 4no. D10 BARS WITH 6mm STIRRUPS @ 400 CENTRES.  
 MINIMUM 50mm CONCRETE COVER TO ALL REINFORCING



TYPICAL BLOCKWORK WALL  
 ELEVATION SHOWING REINFORCING

REINFORCED BLOCKWORK WALL NOTES

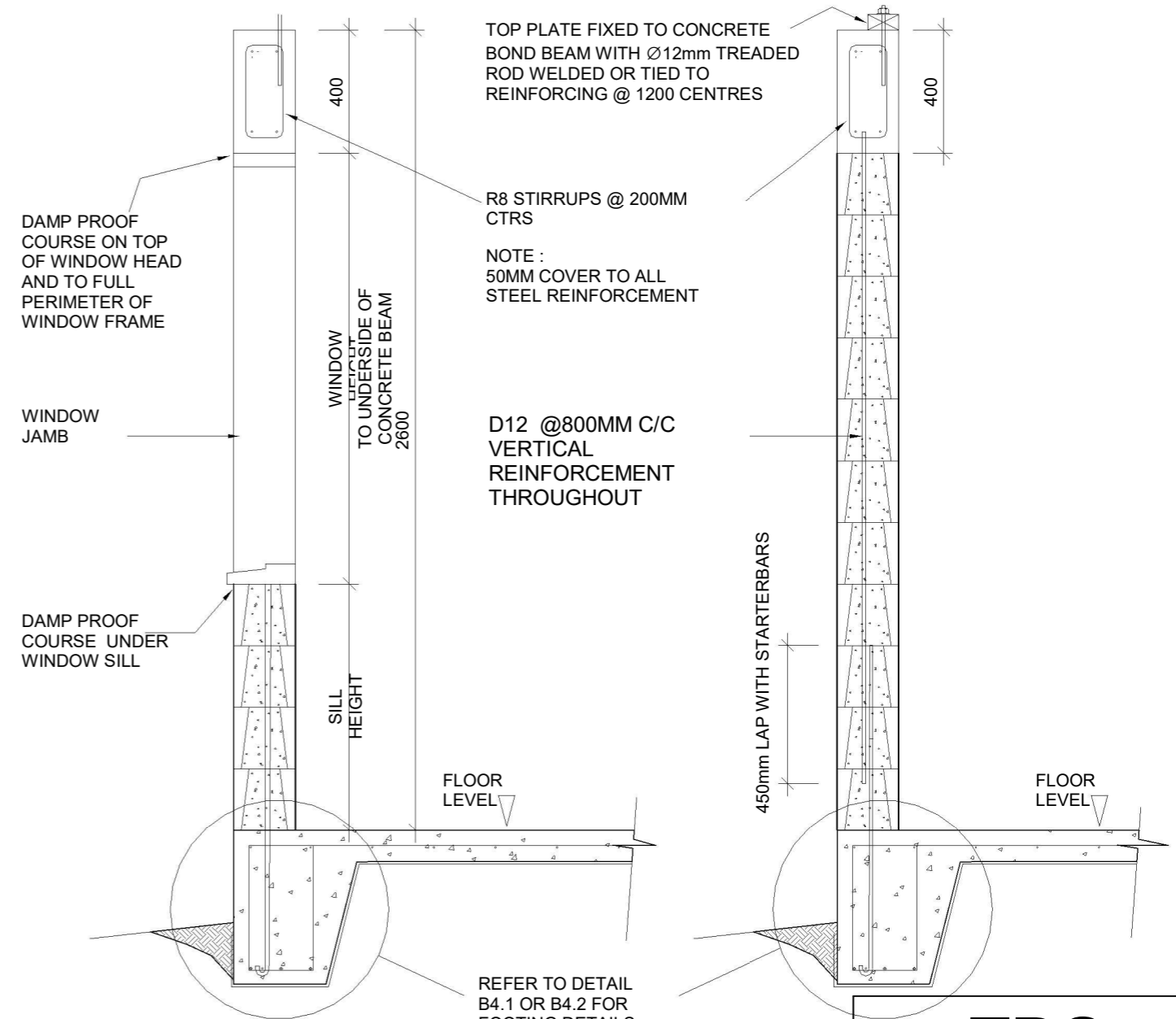
1. THESE DETAILS SHALL ONLY BE USED FOR SINGLE STOREY BUILDINGS
2. ALL REINFORCING SHALL HAVE 50mm CONCRETE COVER.
3. BACKFILL BLOCKWORK COMPLETELY WITH GROUT.
4. ALL STEEL REINFORCING TO BE MINIMUM GRADE 300MPa

CONCRETE BLOCKS 390x190x190 CONCRETE BLOCKS LAID IN STRETCHER BOND. 10mm FLUSH JOINTED MORTAR TO SPECIFICATION. RUN STRING LINE FOR ALL BLOCKWORK COURSES.

BACKFILL HOLLOW BLOCKS WITH GROUT TO SPECIFICATION.

MORTAR MIX 1 : 3  
 CEMENT:SAND

GROUT MIX 1 : 1 : 2 : 4  
 WATER:CEMENT:SAND:10mm AGGREGATE



TYPICAL SECTION  
 WINDOW / BLOCK WALL

SCALE-1:20

TYPICAL SECTION  
 BLOCKWORK WALL

SCALE-1:20

**TDS**

TECHNICAL DESIGN SECTION  
 MINISTRY OF INFRASTRUCTURE &  
 SUSTAINABLE ENERGY  
 PO BOX 498  
 BETIO, TARAWA  
 REPUBLIC OF KIRIBATI  
 CENTRAL PACIFIC  
 PHONE: +686 26192

**TEMEERIA MALE WARD  
 PHASE 2**

CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**WALL  
 REINFORCEMENT**

DRAWN BY: Author  
 REVIEWED BY: Checker  
 DATE: 03/30/21  
 SCALE: 1 : 20

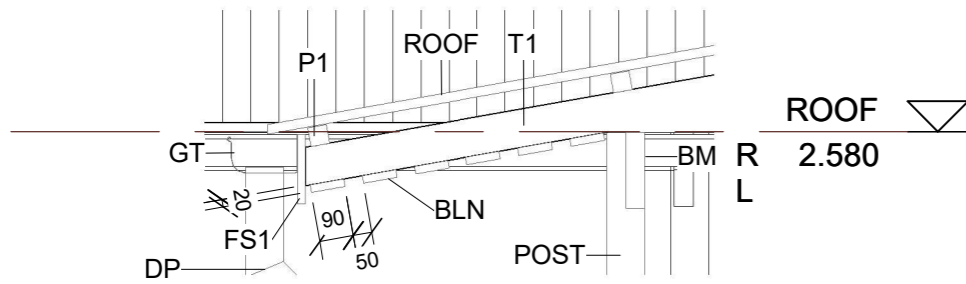
DRAWING NUMBER: ISSUE:

**A75**

**1 Wall Reinforcement**

Scale: 1 : 20



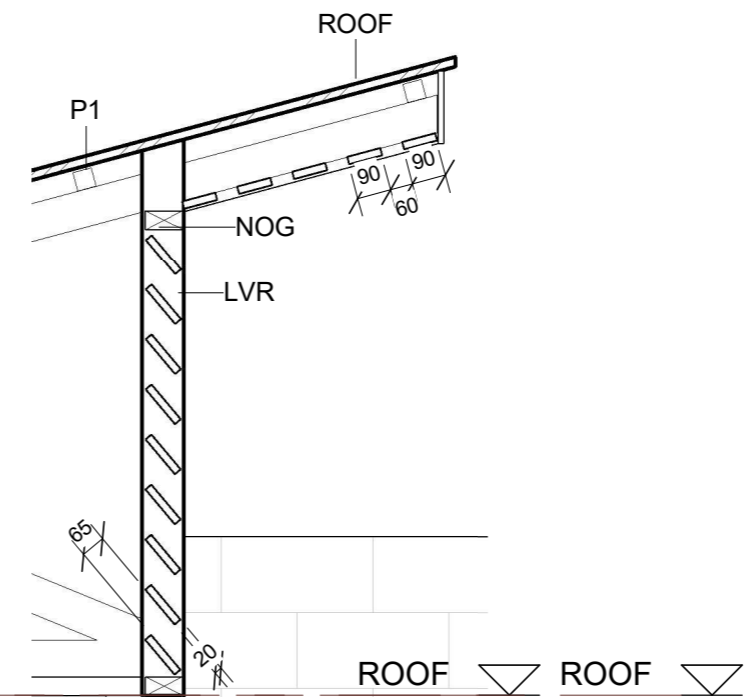


**10** DETAIL 10

Scale: 1 : 20

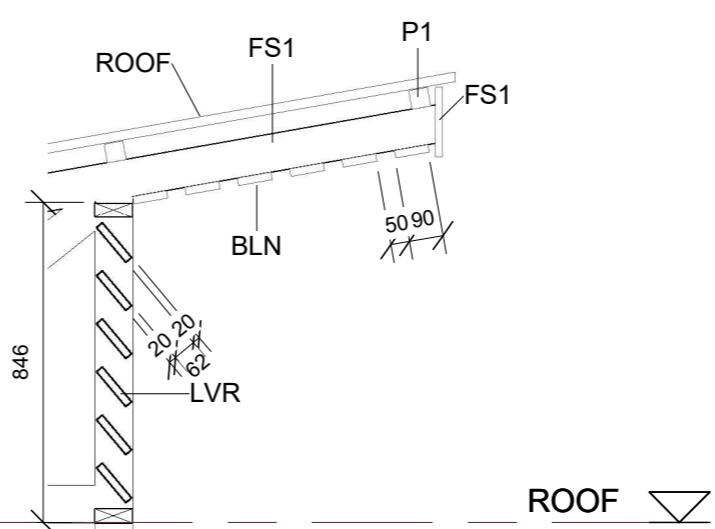
**LEGEND**

- BLN SOFFIT/EAVES LINING 90X20mm  
TIMBER BATTENS AT 100mm MAX  
CENTRES NAILED TO UNDERSIDE OF  
TRUSSES AND/OR PURLINS.
- BM BEAM 200X50MM  
BOLTED(bolt-120x12mm)TO POST
- DP DOWNPIPE 100mm dia UPVC PIPES  
(INTO THE GROUND TO TANK INLETS  
OR DIRECTLY TO TANK INLET FOR  
DOWNPIPES DIRECTLY ADJACENT TO  
THE TANK)
- FS1 FASCIA (OR BARGE) BOARD 200X20mm
- GT 100MMX120MM STEEL GUTTER AT 1:200  
FALL MINIMUM
- LVR FIXED TIMBER LOUVRES 20mm THICK  
PAINTED FINISH (NUBERS SHOWN TO  
BE EQUALLY SPACED)
- NOG 50X50 CEILING NOGGINGS 600mm  
CENTRES MAX BOTH WAYS with FIBRE  
CEMENT CEILING.
- P1 50X50 PURLINS @ 900mm CENTRES  
MAX
- POST 100X100mm TREATED TIMBER POST  
BOLTED(110X12mm) TO U STEEL  
BRACKETS 100x100x6mm(FIXED TO PAD  
WITH 4no. DYNABOLTS 50x16mm). TOP  
FIXED TO BEAM WITH 2nos BOLTS  
200x18mm.
- ROOF CORRUGATED GALVINISED ROOFING  
SHEET - ZINCALUM FINISH - SCREW TO  
PURLIN
- T1 TRUSS ALL MEMBERS 100X50.



**12** DETAIL 12

Scale: 1 : 20



**13** DETAIL 13

Scale: 1 : 20

1 Additional Seclusions to Phase 1 22/11/21

**TDS**

TECHNICAL DESIGN SECTION  
MINISTRY OF INFRASTRUCTURE &  
SUSTAINABLE ENERGY  
PO BOX 498  
BETIO, TARAWA  
REPUBLIC OF KIRIBATI  
CENTRAL PACIFIC  
PHONE: +686 26192

**TEMEERIA MALE WARD  
PHASE 2**

CLIENT: MHMS  
PROJECT NO: 031601

DWG TITLE:  
**DETAIL - LOUVRE &  
BIRD BATTEN**

DRAWN BY: T.Titaake  
REVIEWED BY:P.T/T.T/T.M  
DATE: 04/05/17  
SCALE: 1 : 20

DRAWING NUMBER: ISSUE:

**A81 1**

### Keynote Legend

BBM	
BLN	SOFFIT/EAVES LINING 90X20mm TIMBER BATTENS AT 100mm MAX CENTRES NAILED TO UNDERSIDE OF TRUSSES AND/OR PURLINS.
BLWK	REINFORCED CONCRETE BLOCKWORK
BM	BEAM 200X50MM BOLTED(bolt-120x12mm)TO POST
CLG	6mm PLYWOOD CEILING FIXED TO UNDERSIDE OF CEILING FRAMES/NOGGING
CT	SELECTED NON-SLIP FLOOR TILE AT WET AREAS
DN	100mm DRAINAGE PIPE WITH CAP, CONNECTED TO SEWER.
DP	DOWNP PIPE 100mm dia UPVC PIPES (INTO THE GROUND TO TANK INLETS OR DIRECTLY TO TANK INLET FOR DOWNPIPES DIRECTLY ADJACENT TO THE TANK)
EF	Edge Footing
FP	PAVING SLAB FOR FOOTPATH OR CORAL GRAVEL
FRC	FIBRE CEMENT SHEET CLADDING
FS	FLASHING SHEET 200X200MM FIXED TO UNDERSIDE GABLE LINING AND ALSO FIXED ON TOP OF MORTAR PACKING AND WATERSEALED WITH CILICON
FS1	FASCIA (OR BARGE) BOARD 200X20mm
FT	SELECTED FLOOR TILES
GP	75MM GALVANISED POST
GT	100MMX120MM STEEL GUTTER AT 1:200 FALL MINIMUM
GVP	50MM GALVANISED POST
GVPI	20MM GALVANISED PIPE WELDED ON GATE

### Keynote Legend

HD	HD Bolt 200x12 dia
IB	Internal Beam
INS	ROOF INSULATION HELD IN PLACE WITH MESH
LN1	SOFFIT/EAVES LINING 25X50mm TIMBER BATTENS AT 100mm MAX CENTRES NAILED TO UNDERSIDE OF TRUSSES AND/OR PURLINS.
LVR	FIXED TIMBER LOUVRES 20mm THICK PAINTED FINISH (NUBERS SHOWN TO BE EQUALLY SPACED)
MW	Selected Mesh Wire
NOG	50X50 CEILING NOGGINGS 600mm CENTRES MAX BOTH WAYS with FIBRE CEMENT CEILING.
P	50X75 PURLINS @ 900mm CENTRES MAX
P1	50X50 PURLINS @ 900mm CENTRES MAX
PLAT	150X50mm TIMBER PLATE (OR FOR PLATES ON BOND BEAM, FIX WITH HOLDING DOWN BOLT OR 12MM DIA THREADED ROD WELDED OR TIED TO REINFORCING @ 1200mm CENTRES)
POST	100X100mm TREATED TIMBER POST BOLTED(110X12mm) TO U STEEL BRACKETS 100x100x6mm(FIXED TO PAD WITH 4no. DYNABOLTS 50x16mm). TOP FIXED TO BEAM WITH 2nos BOLTS 200x18mm.
RB12	D12 @800mm C-C VERTICAL REINFORCEMENT THROUGHOUT (450mm LAP WITH STARTER BARS)
RD1	D16 ROD WELDED ON GATE POST
ROOF	CORRUGATED GALVINISED ROOFING SHEET - ZINCALUM FINISH - SCREW TO PURLIN
RP	100X50MM RAFTER AND 100X50MM PURLIN.
RWT	RAIN WATER TANK 5000L
S100	100mm THICH CONCRETE SLAB REINFORCED WITH 200x200x10mm dia MESH laid at mid of the slab. SLAB ON POLYTHENE
SFTG	CONCRETE STRIP FOOTING 200X600 REINFORCED WITH 3NOs D10 WITH TRENCH MESH. MINIMUM 50MM CONCRETE COVER TO BOTTOM AND SIDES OF STRIP FOOTING
SH	SELETED SHOWER UNIT.
T1	TRUSS ALL MEMBERS 100X50.
TAP	SELETED TAP.
TL	TRUSS LINING PLY 4MM ON BOTH SIDES
TUB	SELETED TUB UNIT.
WM	WELDED SQUARE MESH 50MM

1 Additional Seclusions to Phase 1 22/11/21

# TDS

TECHNICAL DESIGN SECTION  
MINISTRY OF INFRASTRUCTURE &  
SUSTAINABLE ENERGY  
PO BOX 498  
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REPUBLIC OF KIRIBATI  
CENTRAL PACIFIC  
PHONE: +686 26192

## TEMEERIA MALE WARD PHASE 2

CLIENT: MHMS  
PROJECT NO: 031601

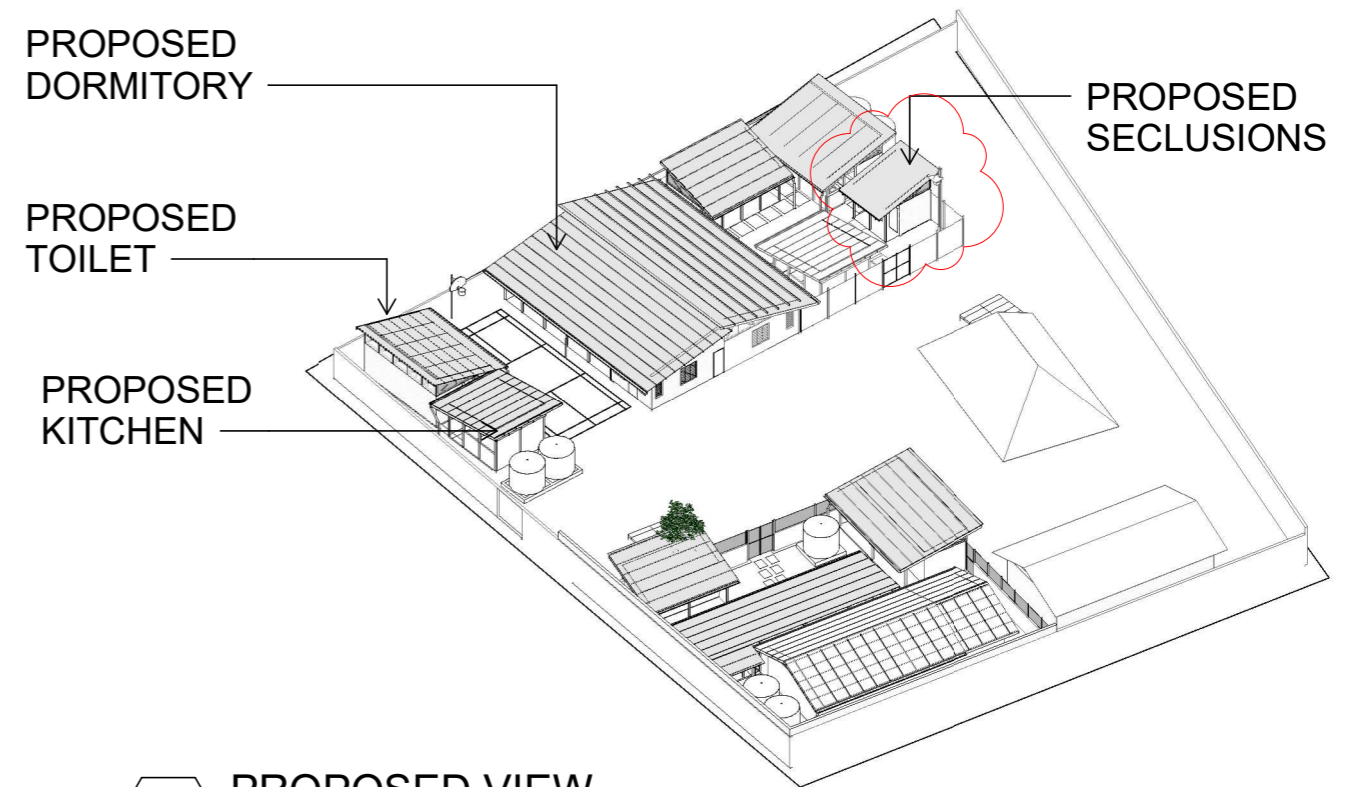
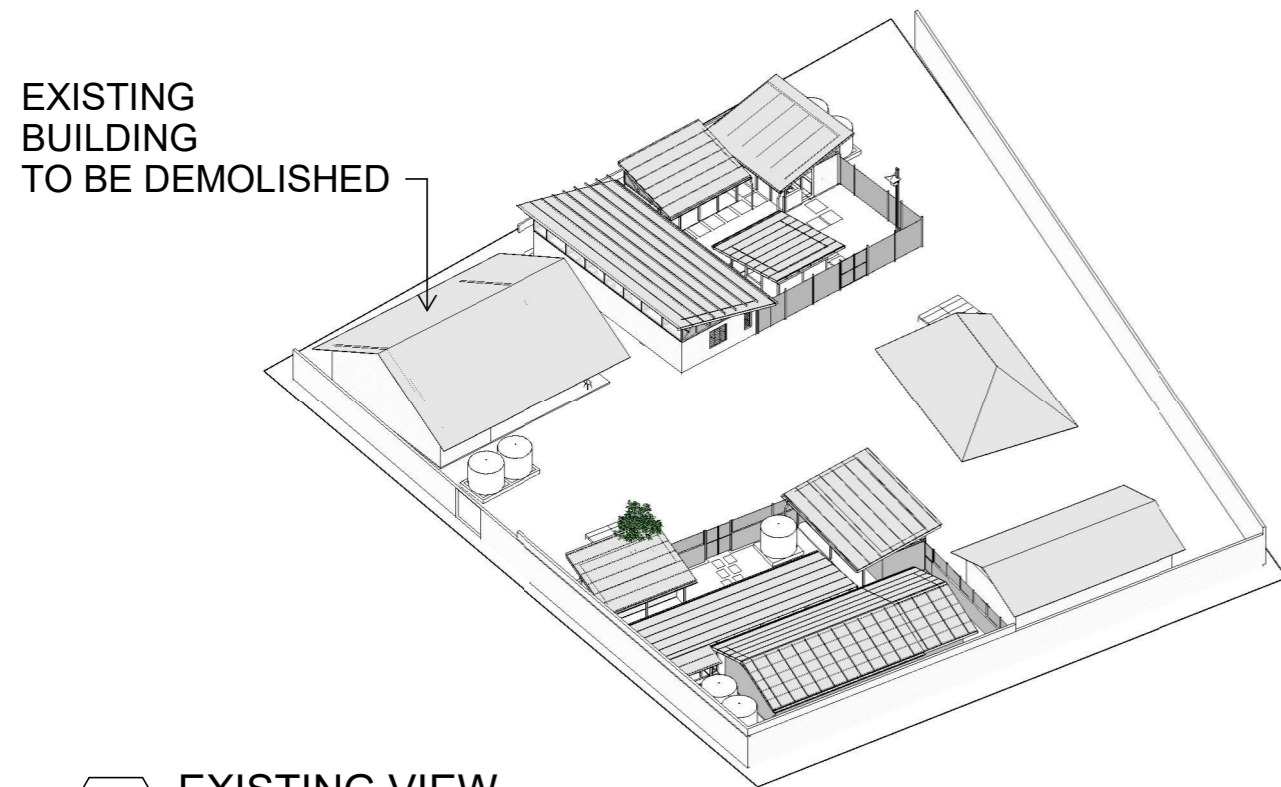
DWG TITLE:  
**KEYNOTES**

DRAWN BY: T.Titaake  
REVIEWED BY:P.T/T.T/T.M  
DATE: 04/05/17  
SCALE:

DRAWING NUMBER: ISSUE:

A100

1



**2** EXISTING VIEW  
Scale:  
e:

**1** PROPOSED VIEW  
Scale:  
e:

1 Additional Seclusions to Phase 1 22/11/21



**3** 3D View 12\_1  
Scale 1:1  
e:

**TDS**  
 TECHNICAL DESIGN SECTION  
 MINISTRY OF INFRASTRUCTURE &  
 SUSTAINABLE ENERGY  
 PO BOX 498  
 BETIO, TARAWA  
 REPUBLIC OF KIRIBATI  
 CENTRAL PACIFIC  
 PHONE: +686 26192

**TEMEERIA MALE WARD  
 PHASE 2**

CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**EXISTING AND  
 PROPOSED VIEWS**

DRAWN BY: Author  
 REVIEWED BY: Checker  
 DATE: 10/30/20  
 SCALE: 1:1

DRAWING NUMBER: ISSUE:

**A101 1**





1 3D View 14\_2  
 Scal 1 : 1  
 e:



2 3D View 13\_2  
 Scal 1 : 1  
 e:

**TDS**  
 TECHNICAL DESIGN SECTION  
 MINISTRY OF INFRASTRUCTURE &  
 SUSTAINABLE ENERGY  
 PO BOX 498  
 BETIO, TARAWA  
 REPUBLIC OF KIRIBATI  
 CENTRAL PACIFIC  
 PHONE: +686 26192

**TEMEERIA MALE WARD  
 PHASE 2**

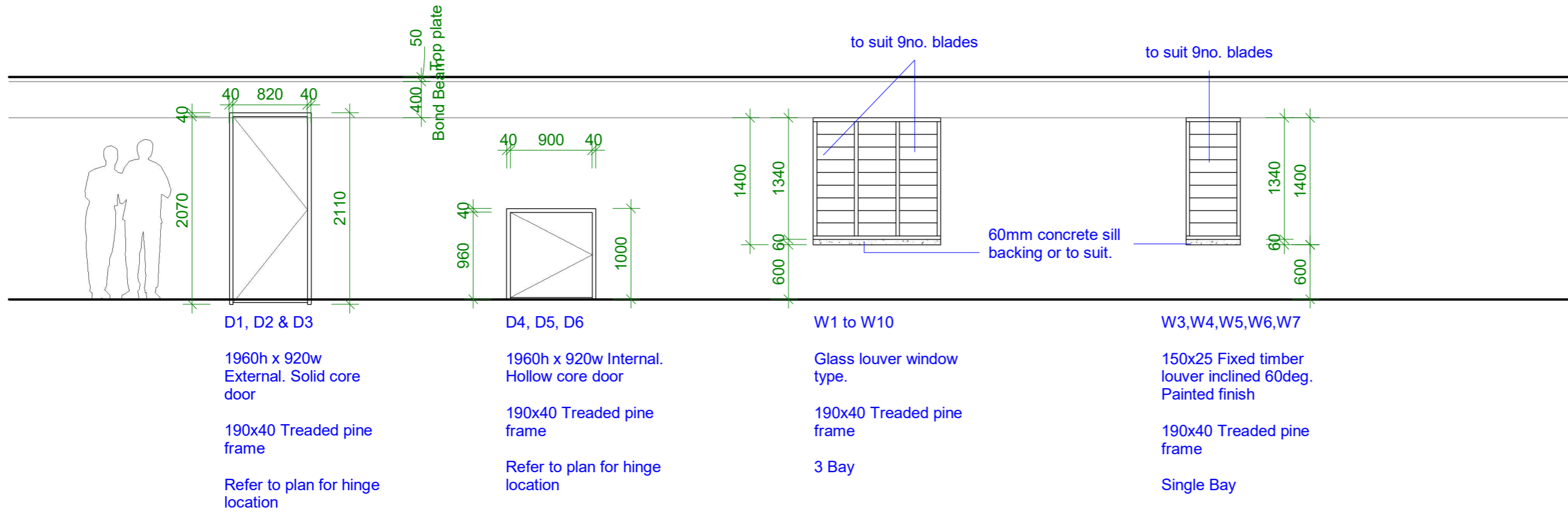
CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**EXISTING AND  
 PROPOSED VIEW1**

DRAWN BY: KB  
 REVIEWED BY: BR  
 DATE: 10/30/20  
 SCALE: 1 : 1

DRAWING NUMBER: ISSUE:

**A102**



## Opening Schedule

Scale: 1 : 50

**TDS**  
 TECHNICAL DESIGN SECTION  
 MINISTRY OF INFRASTRUCTURE &  
 SUSTAINABLE ENERGY  
 PO BOX 498  
 BETIO, TARAWA  
 REPUBLIC OF KIRIBATI  
 CENTRAL PACIFIC  
 PHONE: +686 26192  
**TEMEERIA MALE WARD  
 PHASE 2**

CLIENT: MHMS  
 PROJECT NO: 031601

DWG TITLE:  
**OPENING SCHEDULE**

DRAWN BY: KB  
 REVIEWED BY: BR  
 DATE: 11/23/21  
 SCALE: 1 : 50

DRAWING NUMBER: ISSUE:

**A103**

## CONSTRUCTION SPECIFICATION

ALL SETOUT AND CONSTRUCTION DIMENSIONS ARE TO BE CHECKED ON SITE PRIOR TO STARTING ANY WORKS BY THE CONTRACTOR OR SUB-CONTRACTORS.

REFER ANY DISCREPENCIES TO ARCHITECT FOR RESOLUTION.

## ROOF PLUMBING

### **GUTTERS**

USE PVC 100mm DN CUT IN HALF ALONG THE LENGTH AND INSTALL AS GUTTERS. FIX GUTTER TO TIMBER FASCIA WITH MATCHING GUTTER BRACKETS.  
FALL GUTTER TO DOWNPIPES AT A MINIMUM GRADIENT OF 1 IN 400. TEST FALL OF GUTTER BY FILLING WITH WATER AND ENSURING WATER FULLY DRAINS TO DOWNPIPES.

INSTALL GUTTERS PRIOR TO FIXING ROOF SHEETING..

### **DOWNPIPES**

100 DIA. UPVC - PAINT FINISH.

### **ROOFING**

STANDARD CORRUGATED STEEL ROOFING - ZINCALUME ZINISH

FIX STEEL ROOFING TO TIMBER ROOFING BATTENS WITH GALVANISED ROOFING SCREWS

### **RIDGE AND BARGE CAPPINGS**

FOLDED STEEL SHEET - ZINCALUME ZINISH

FIX CAPPINGS THROUGH STEEL ROOFING TO TIMBER ROOFING BATTENS WITH GALVANISED ROOFING SCREWS

### **RAINWATER TANKS**

6000 LITRE POLYETHELENE RAINWATER TANK ON BLOCKWORK PLATFORM. PROVIDE ALUMINIUM MESH INSECT SCREEN AT INLET IN TOP OF TANK. INSTALL FIRST FLUSH.

## ROOF FRAMING

ALL TIMBER FRAMING SHOULD BE TERMITE TREATED AND COMPLY WITH AS 1684.

### **TIMBER TRUSSES AND RAFTERS**

REFER TO SECTIONS AND DETAILS FOR TRUSSES/RAFTER DESIGN.

BE SURE TO INSTALL ALL BOTTOM CHORD TIES, ROOF BRACING AND TIES TO TOP PLATES.

## BLOCKWORK FINISH

FLUSH JOINTED MORTAR (DO NOT TOOL JOINTS).

### **MORTAR MIX**

1:3  
CEMENT:SAND RATIO

### **GROUT MIX**

1:1:2:4  
WATER:CEMENT:SAND:AGGREGATE (10mm) RATIO

USE AT LEAST 300KG OF CEMENT PER CUBIC METRE OF CONCRETE.

### **CONCRETE MIX**

0.75:1:2:4  
WATER:CEMENT:SAND:AGGREGATE (20mm) RATIO

LAY CONCRETE SLAB OVER BLACK PLASTIC SHEETING, 50mm SAND BLINDING AND 150mm COMPACTED HARDCORE

### **REINFORCING**

ALL STEEL REINFORCING TO BE MINIMUM GRADE 300MPa

## BLOCKWORK & CONCRETING

### **CONCRETE BLOCKS**

390x190x190 CONCRETE BLOCKS LAID IN STRETCHER BOND.  
10mm FLUSH JOINTED MORTAR TO SPECIFICATION.  
RUN STRING LINE FOR ALL BLOCKWORK COURSES.  
DO NOT TOOL JOINTS.

CHECK DETAILS FOR INSTALLATION OF REINFORCING.  
BACKFILL HOLLOW BLOCKS WITH GROUT.

## EXTERNAL MATERIALS

BLWK  
BAGGED AND PAINTED CONCRETE BLOCKS

## INTERNAL FINISHES

CONC  
CONCRETE FLOOR. BROOM FINISH.

CT  
SELECTED NON SLIP TILE AT BATHROOM WET FLOOR.

WT  
SELECTED WALL TILE (UP TO 1200mm AT WET AREAS)

## EXTERNAL PAINTING

WINDOW FRAMES AND FASCIA  
1 COAT 1 STEP OIL BASED PRIMER SEALER UNDERCOAT  
2 COATS OF SEMI-GLOSS ENAMEL  
COLOUR: TO BE SELECTED

## INTERNAL PAINTING

INTERNAL WALLS AND CEILINGS  
1 COAT SEALER  
2 COATS WASH AND WEAR LOW SHEEN  
COLOUR: SELECTED WHITE

TRIMS (SKIRTINGS, ARCHITRAVES, INTERNAL DOORS & FRAMES)  
1 COAT 1 STEP OIL BASED PRIMER SEALER UNDERCOAT  
2 COATS OF SEMI-GLOSS ENAMEL  
COLOUR: SELECTED WHITE

WINDOW FRAMES  
1 COAT 1 STEP OIL BASED PRIMER SEALER UNDERCOAT  
2 COATS OF SEMI-GLOSS ENAMEL  
COLOUR: TO BE SELECTED

ONLY PREMIUM QUALITY PAINTS TO BE USED

# 1 Construction Specification

Scale: 1 : 20

# TDS

TECHNICAL DESIGN SECTION  
MINISTRY OF INFRASTRUCTURE &  
SUSTAINABLE ENERGY  
PO BOX 498  
BETIO, TARAWA  
REPUBLIC OF KIRIBATI  
CENTRAL PACIFIC  
PHONE: +686 26192

## TEMEERIA MALE WARD PHASE 2

CLIENT: MHMS  
PROJECT NO: 031601

DWG TITLE:  
**CONSTRUCTION  
SPECIFICATIONS**

DRAWN BY: KB  
REVIEWED BY: BR  
DATE: 11/23/21  
SCALE: 1 : 20

DRAWING NUMBER: ISSUE:

**A104**