

3 FF Section

4 GF Section

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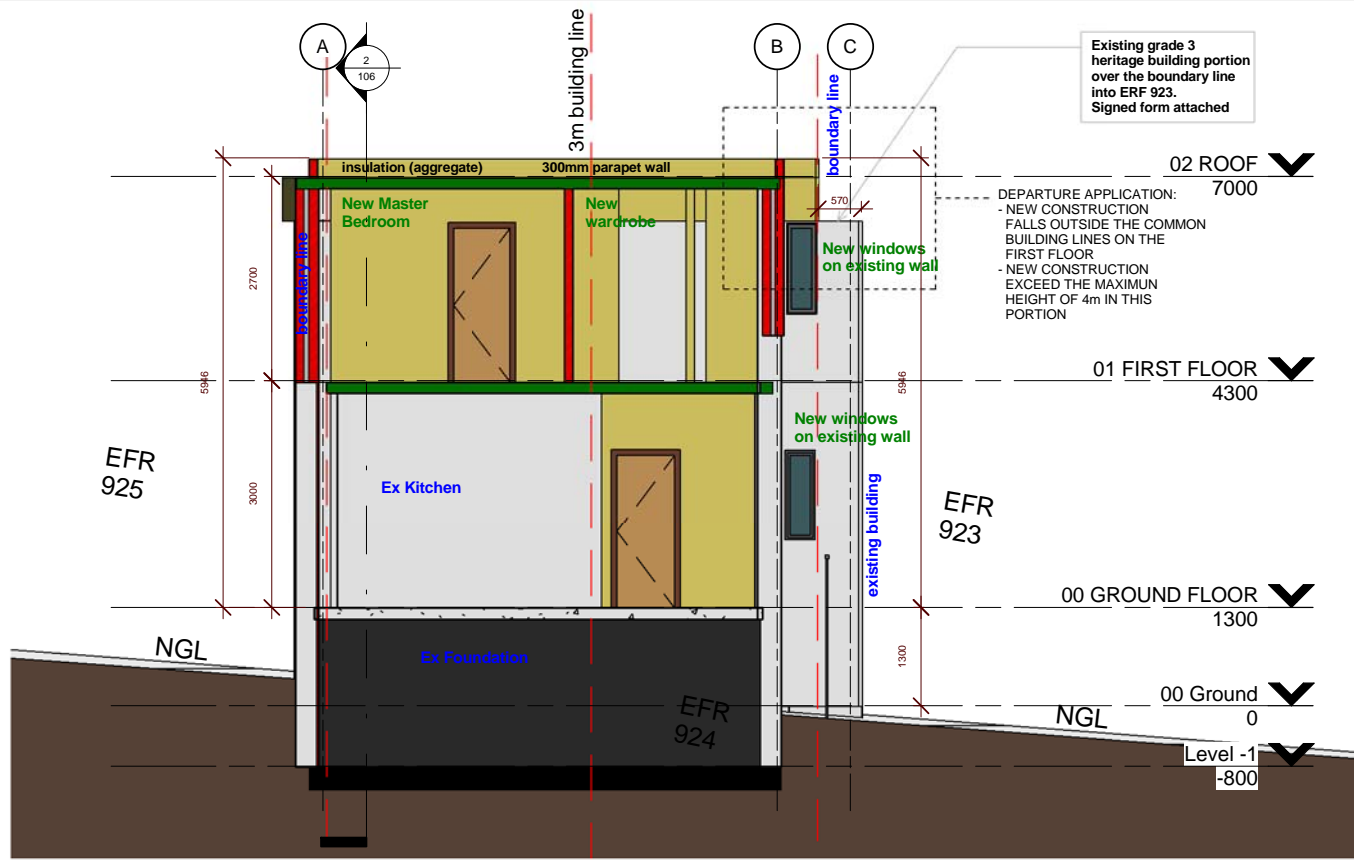
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3D Views		000
Project number	wj 001	
Date	07 SEPT 2012	
Drawn by	Author	

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## NOTES

Any habitable room has Minimum height of 2700 mm  
 All habitable rooms use natural lighting at least 10 % of the floor area concerned  
 All habitable rooms shall be provided with one or more openings that allow the inflow of fresh air from the outside.

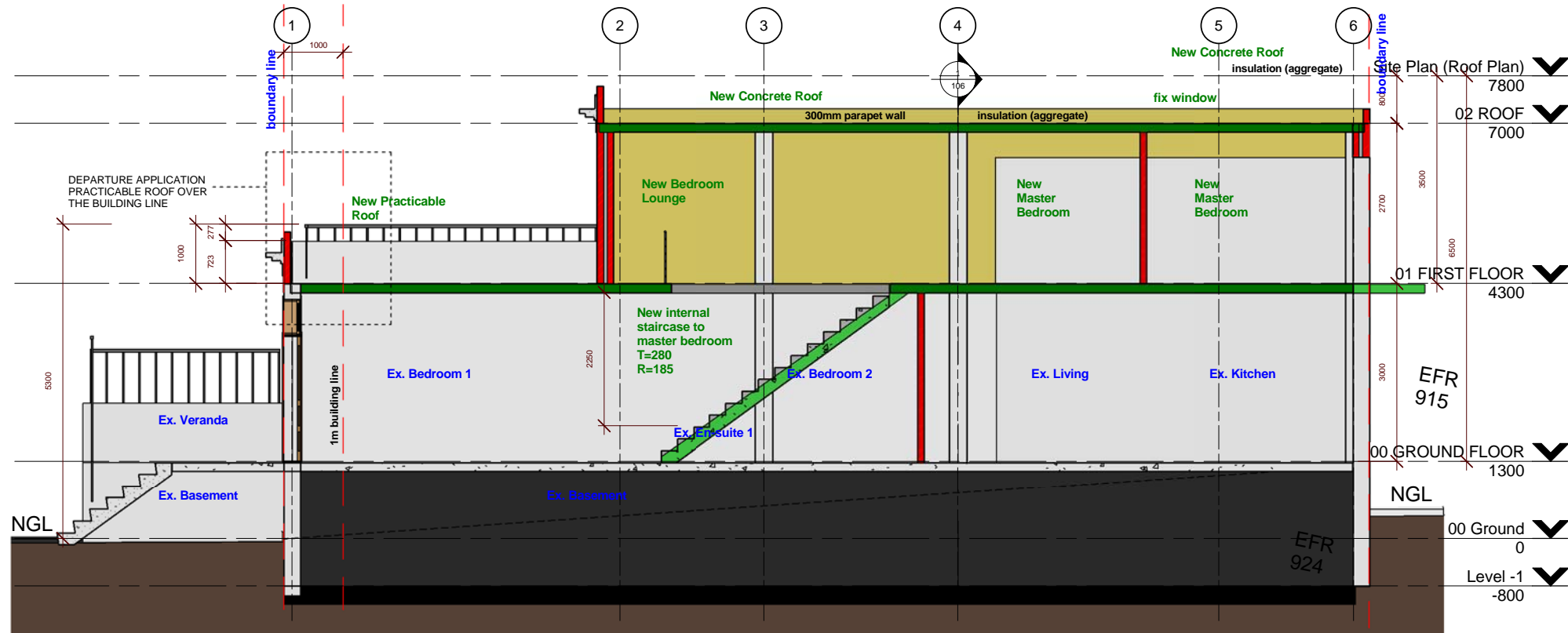
### STRUCTURAL

reinforced column are specified by engineer for lateral support of the existing boundary walls  
 new concrete slab by engineer specification  
 no new foundations to be built

## Section 1

1

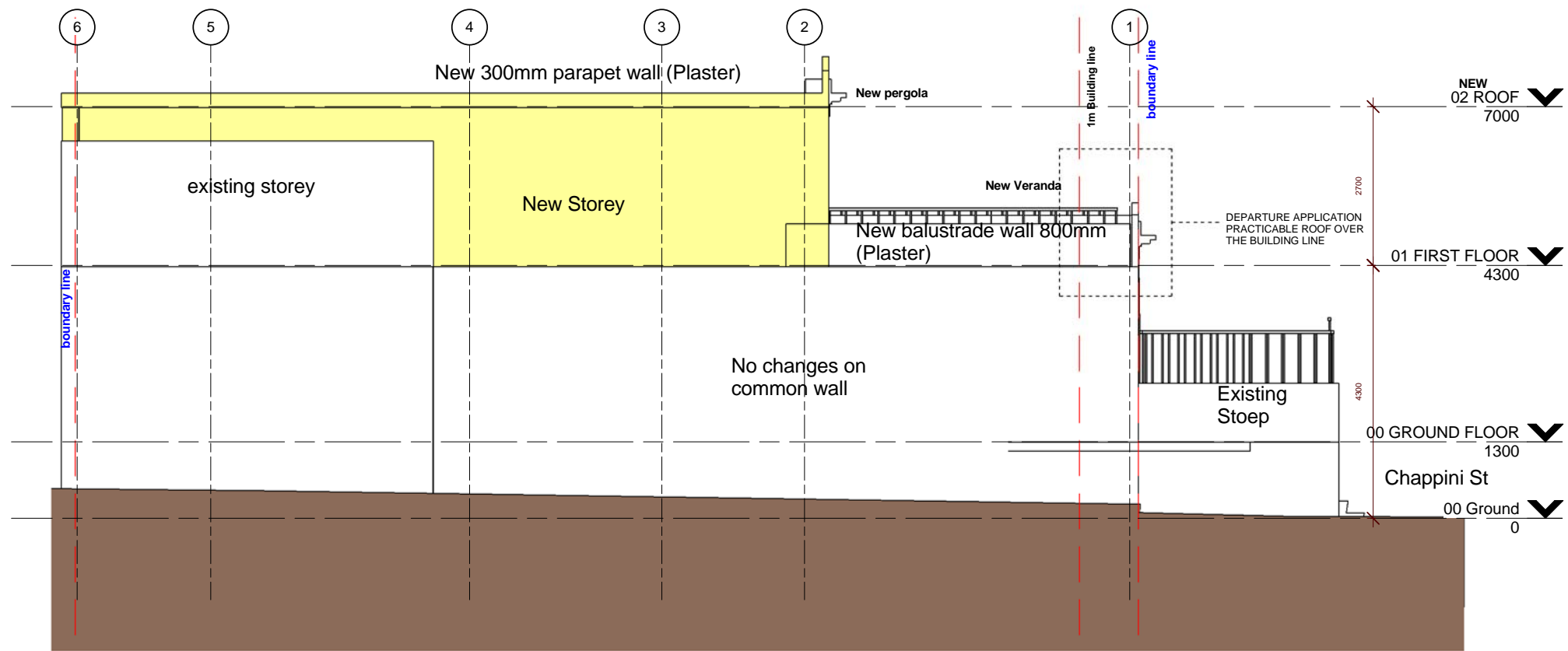
1 : 100



## Section 2

2

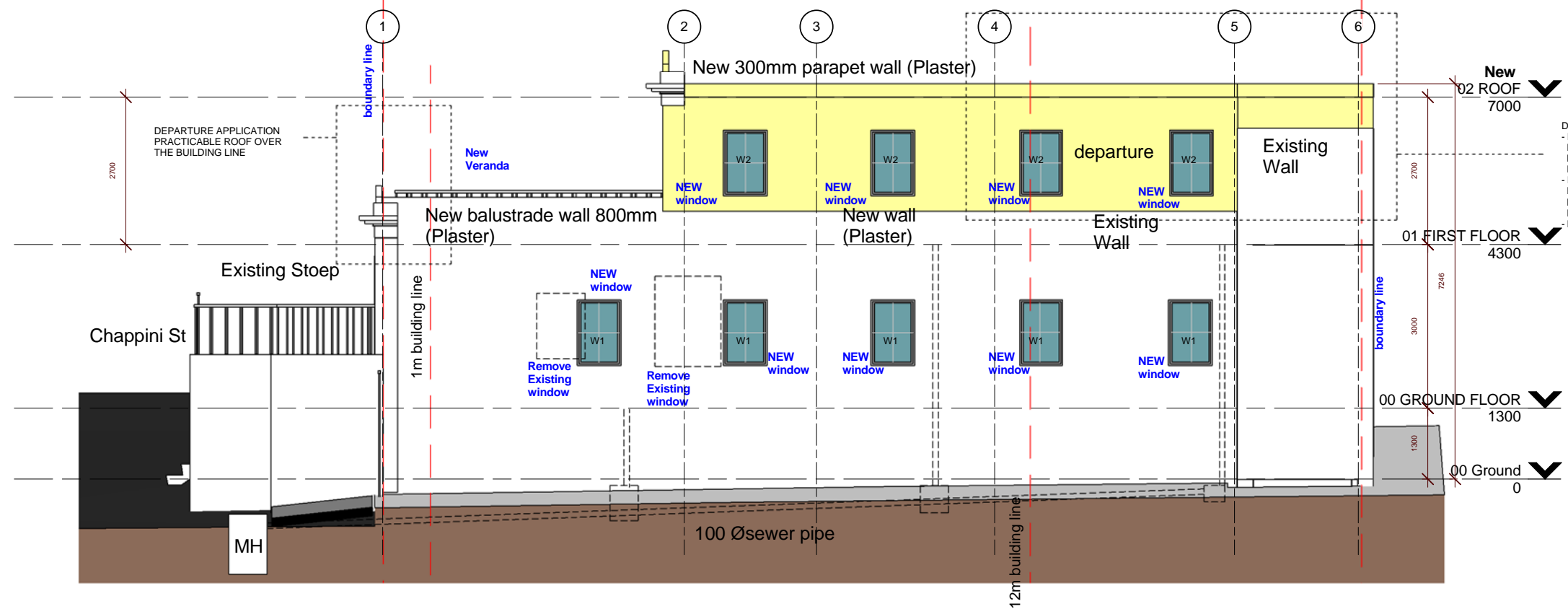
1 : 100



**NORTH**

1

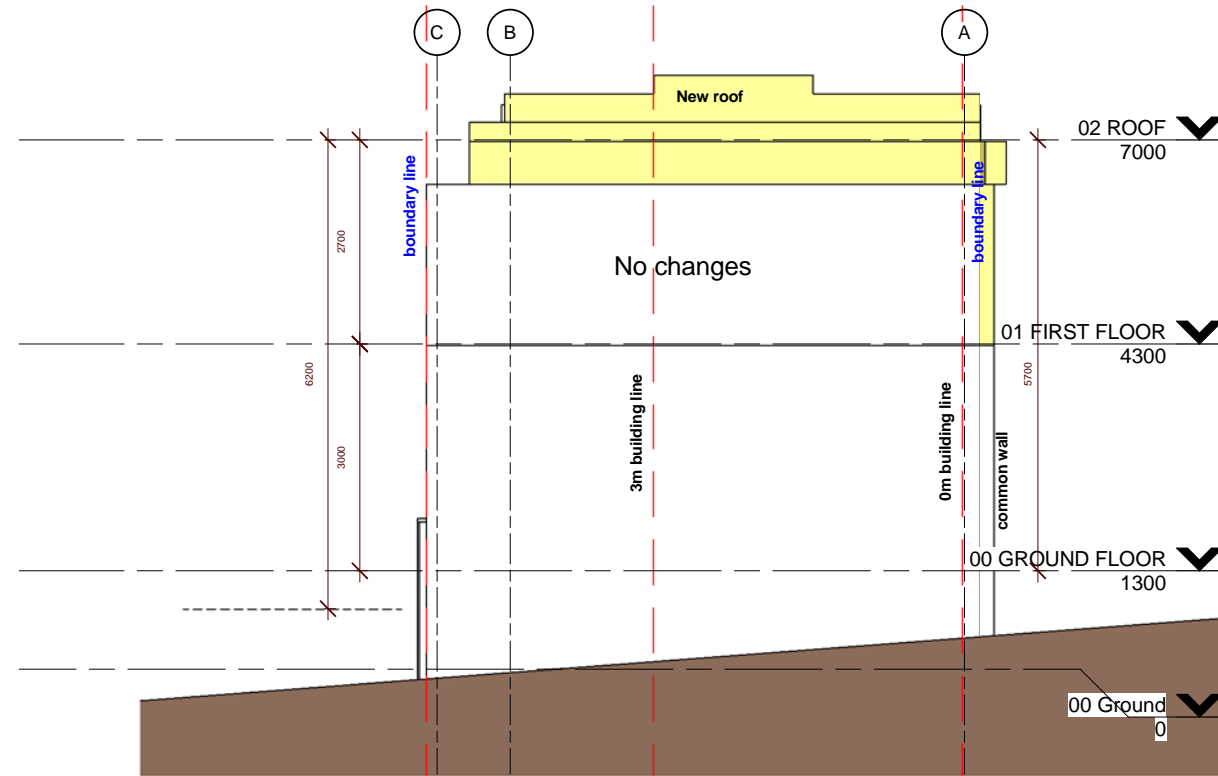
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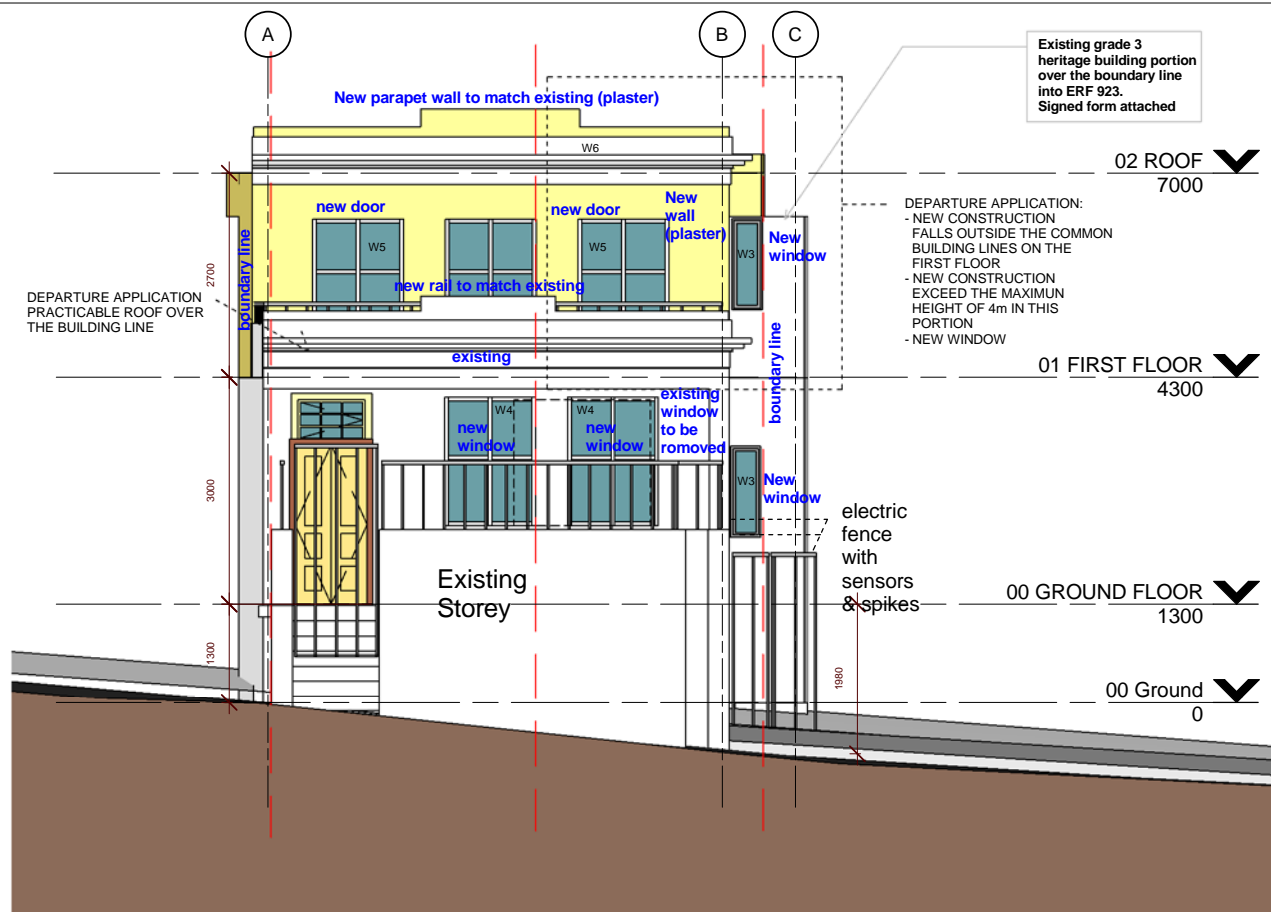
**SOUTH**

2

1 : 100

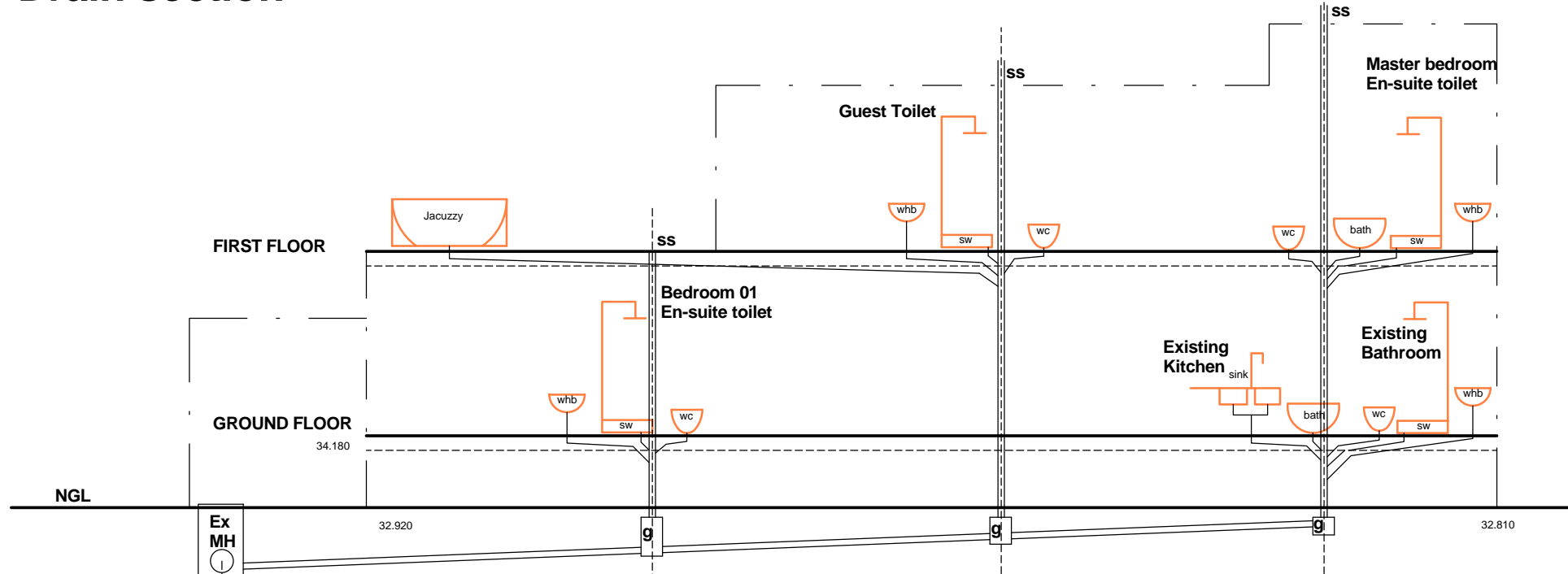


1 EAST (Back)  
1 : 100



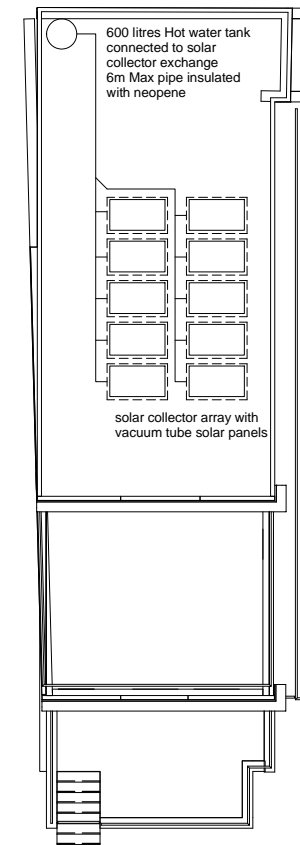
2 WEST (Front)  
1 : 100

# Drain section



cover level	32.780	32.920	32.730	32.810
invert level	31.880	32.320	32.330	32.510
depth	900	600	400	300
material / gradient	110mm Ø PVC pipe @ 1:20	110mm Ø PVC pipe @ 1:20	110mm Ø PVC pipe @ 1:20	
distanza	7000mm	5670mm	5250mm	

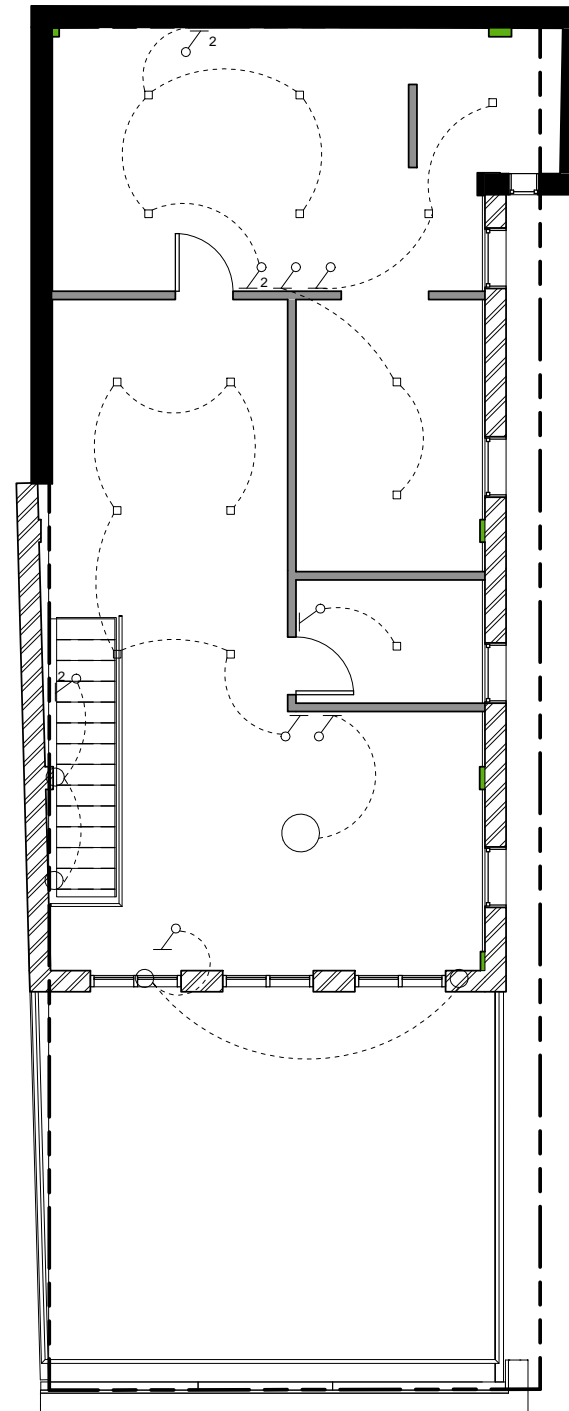
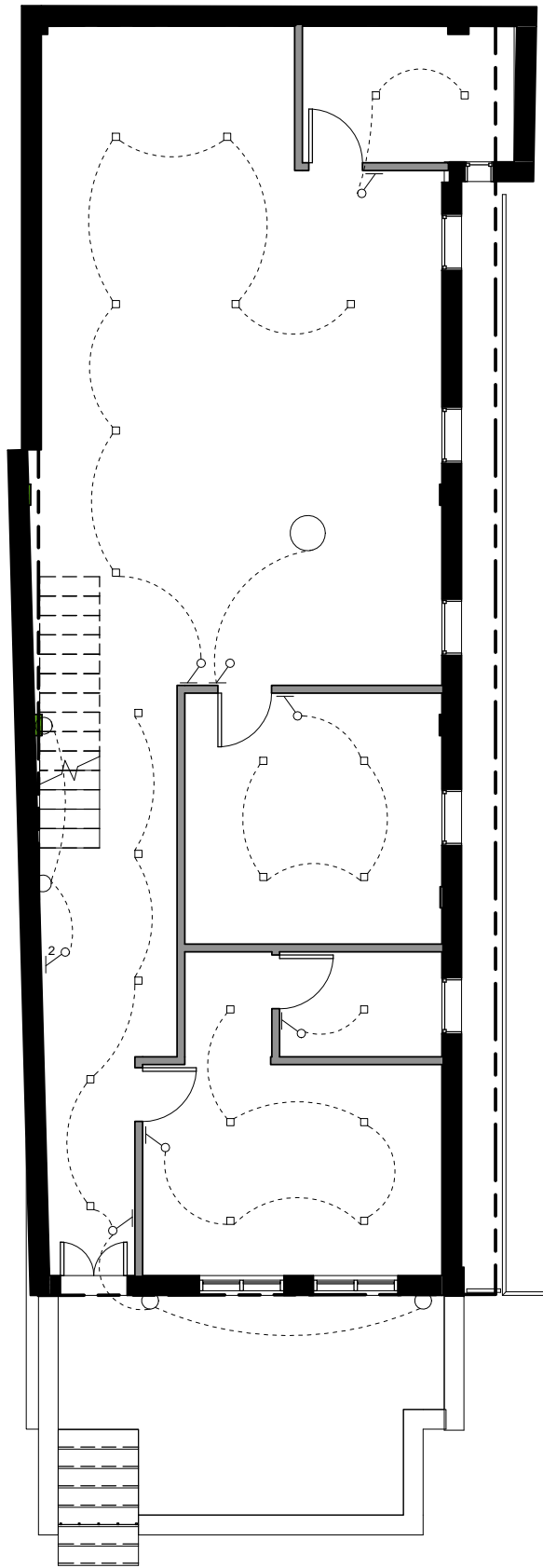
# Hot water supply system



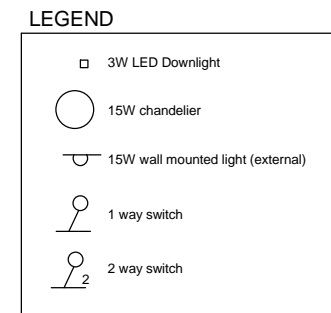
1 00 Ground  
1 : 200

Hot water demand : 450 L (3 bedrooms 4 people)  
 Storage : 600 L  
 System Power: 1000kw induction 3000 Kw solar  
 Hot water system to comply in accordance to SANS 10251-1  
 Pipe insulation R value : 4  
 Pipe insulation thickness 20mm

Notes:  
 - 50% volume required of hot water from solar heating  
 - solar heater system complies to SANS1307, 10106, 10254



AREAS  
Ground Floor Area  
**Total Ground Floor= 113m<sup>2</sup>**  
First Floor Area  
**Total First Floor = 126m<sup>2</sup>**  
**Total building area = 113+ 126 = 239m<sup>2</sup>**



Notes:  
 Energy demand  
 239 m<sup>2</sup> x 5W /m<sup>2</sup> = 1195W

GROUND FLOOR:  
 24 x 3W LED Downlight = 72W  
 1 x 15W chandelier = 15W  
 2 x 15W wall mounted lights (internal) = 30W  
 2 x 15W wall mounted lights (external) = 30W

Ground floor total = 147W

FIRST FLOOR:  
 15 x 3W LED Downlights = 45W  
 1 x 15W chandelier = 15W  
 2 x 15W wall mounted lights = 30W

First floor total = 90W

**Total building lighting = 237W**

Total lighting of 237W is < total energy demand of 1195W

1 GROUND FLOOR - ELECTRICAL LAYOUT  
 1 : 100

2 FIRST FLOOR - ELECTRICAL LAYOUT  
 1 : 100