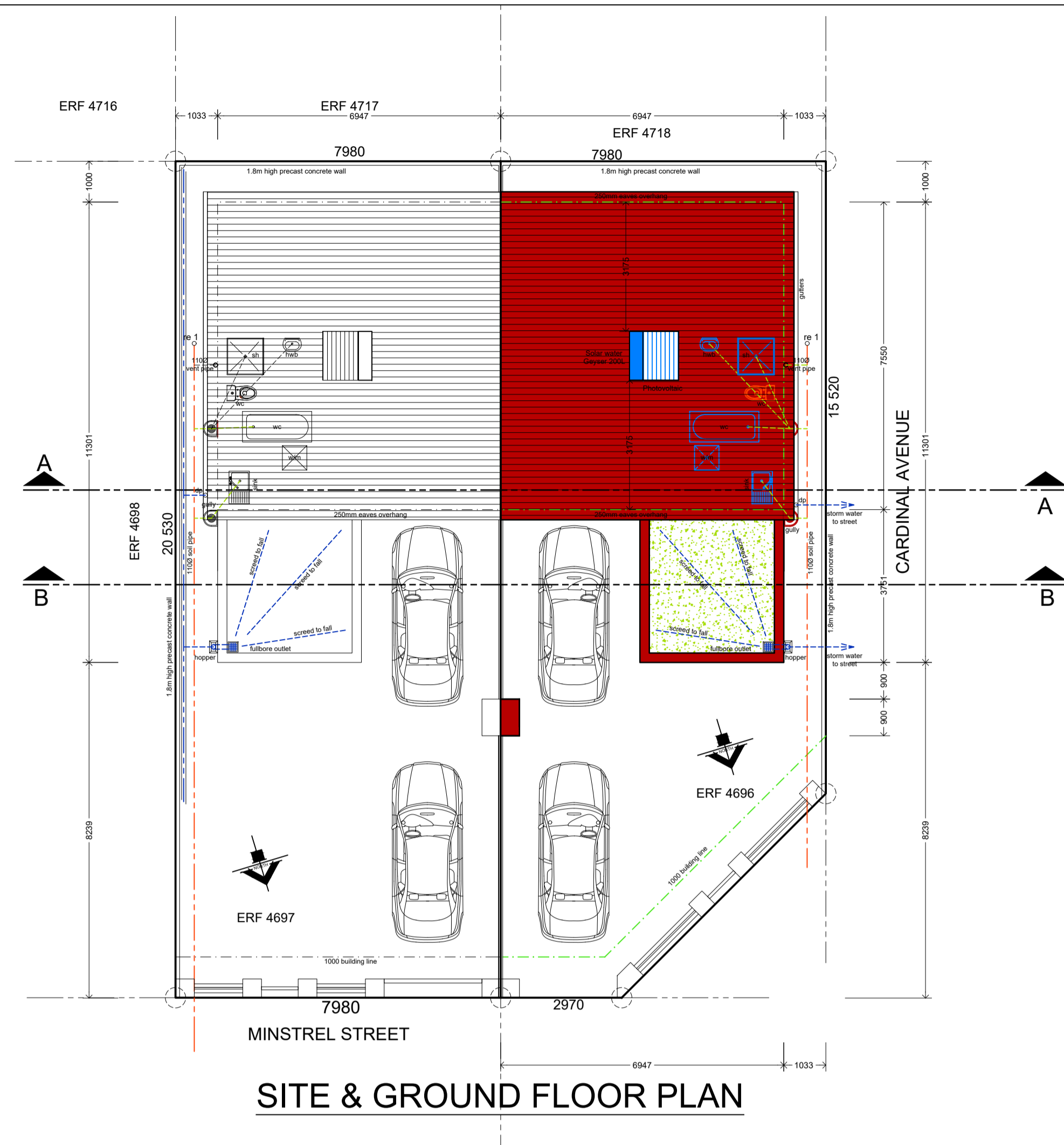
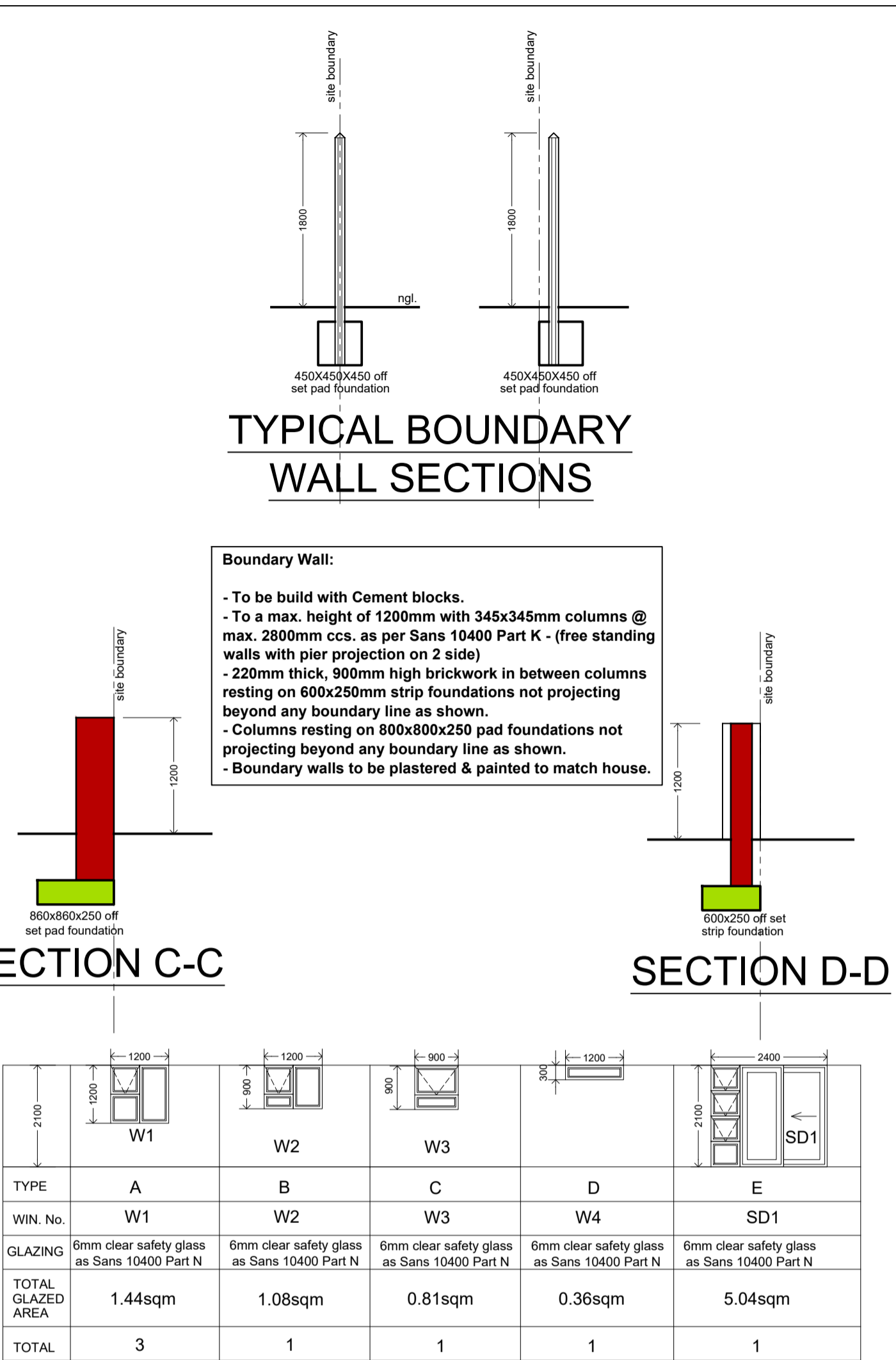


SITE & GROUND FLOOR PLAN



SITE & GROUND FLOOR PLAN



TYPICAL BOUNDARY WALL SECTIONS

SECTION C-C

SECTION D-D

TYPE	A	B	C	D	E
WIN. No.	W1	W2	W3	W4	SD1
GLAZING	6mm clear safety glass as SANS 10400 Part N	6mm clear safety glass as SANS 10400 Part N	6mm clear safety glass as SANS 10400 Part N	6mm clear safety glass as SANS 10400 Part N	6mm clear safety glass as SANS 10400 Part N
TOTAL GLAZED AREA	1.44sqm	1.08sqm	0.81sqm	0.36sqm	5.04sqm
TOTAL	3	1	1	1	1

WINDOW SCHEDULE

FENESTRATION CALCULATIONS

GROUND STOREY	
NET FL. AREA	58.30sqm
GLAZ AREA	11.61sqm
FENESTR. %	19.91%

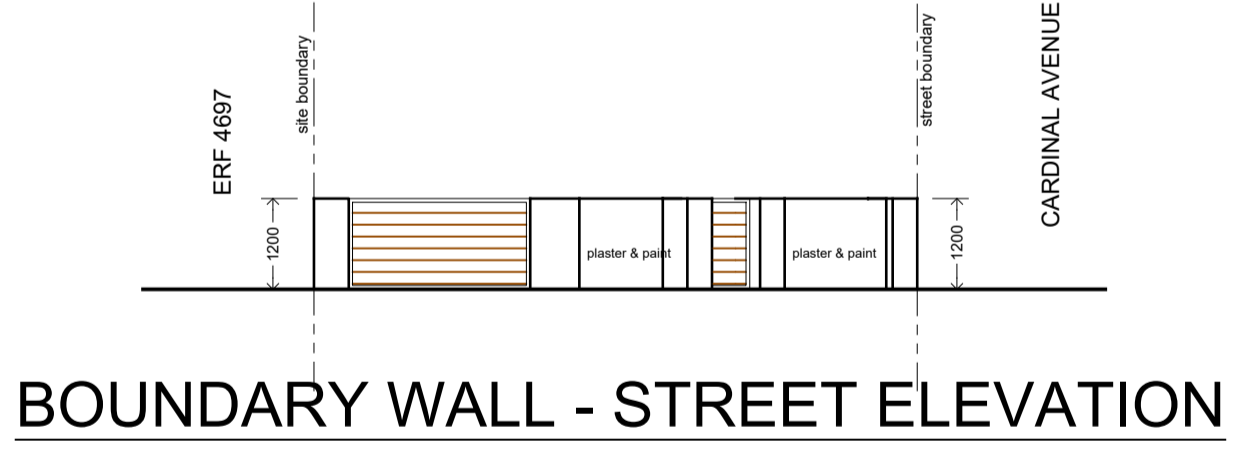
WINDOW SCHEDULE

Aluminum windows
Windows to have min 10% light of floor area and min 5% ventilation of floor area.
XA Requirements - Aluminum SHGC - 0.77 with 6mm single clear safety glass U value - 5.6
Opaque glass to all bathrooms

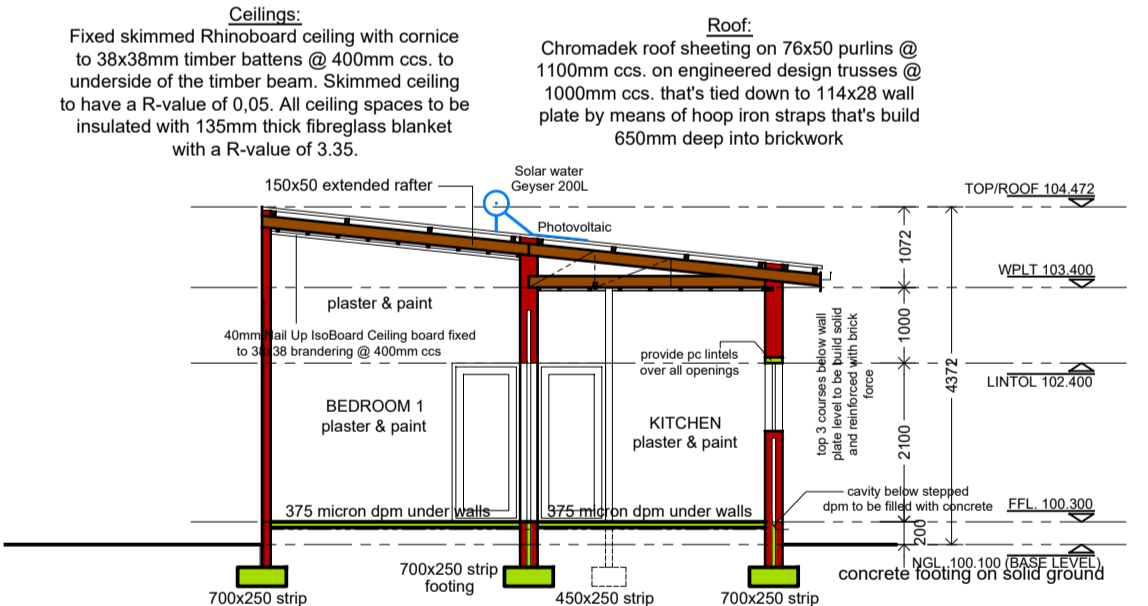
FENESTRATION CALCULATIONS

HOT WATER DEMAND		
Road Specification	Base case hot water calculation	Hot water insulation
Zone 4 upward flow min req'd	H 4 dwelling in Zone	KWh/hot solar water heating insulation with 200L storage tank rated at 400pa
Road air space upwards flowing	Occupants	Solar collector panel is 1.86sqm opening
Road & ceiling construction	Water usage / persons/day	Daily household consumption (kwh) = 25000KJ
Reflective insulation	240L	Daily thermal performance in kWh = 6.9
Flexible mineral rock wool 115 thick	Ambient input temp	Annual output (365)
R value achieved	16°C	This output exceeds the required 1984 kWh. This system passes.
Piping insulation	target output	
For pipes < 60mmØ R value to be	Average difference in temp	J/kgK 4.182
For pipes > 60mmØ R value to be	Specific heat of 1L of water	Kj 39.143
1.5	Daily energy usage (depth)	kWh per day(19800)
Hot water cylinder insulation R value to be	Annual energy usage	kWh 3668
2.0	Minimum total hot water storage capacity 200L	
Min 50% hot water supply by solar heating system	Power consumption for 50% on 200L is	1984kWh

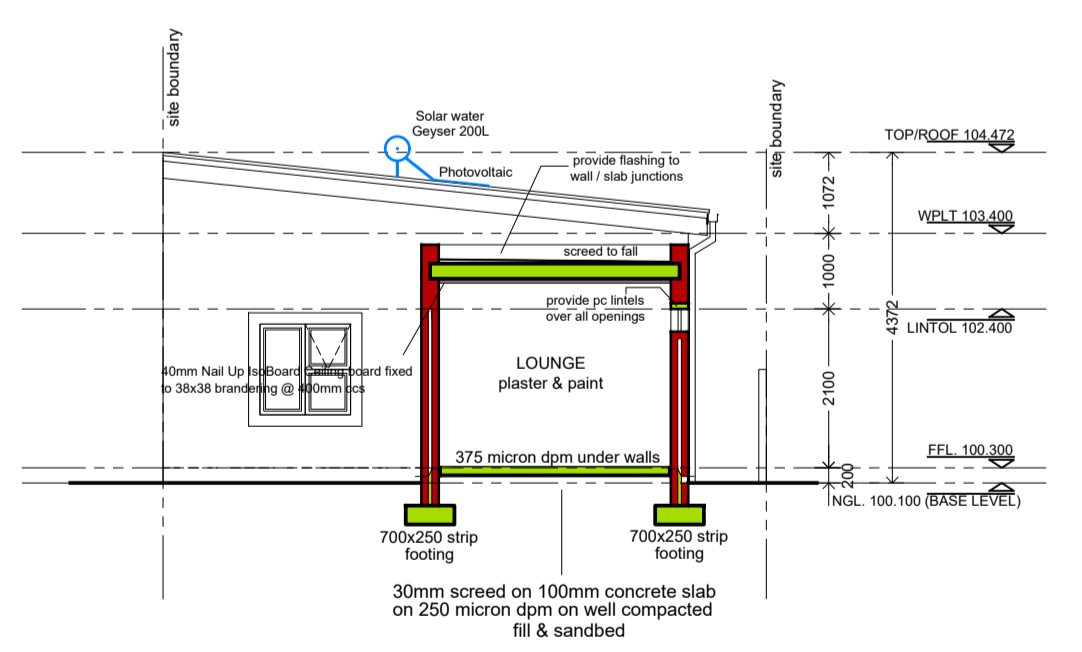
HOT WATER DEMAND



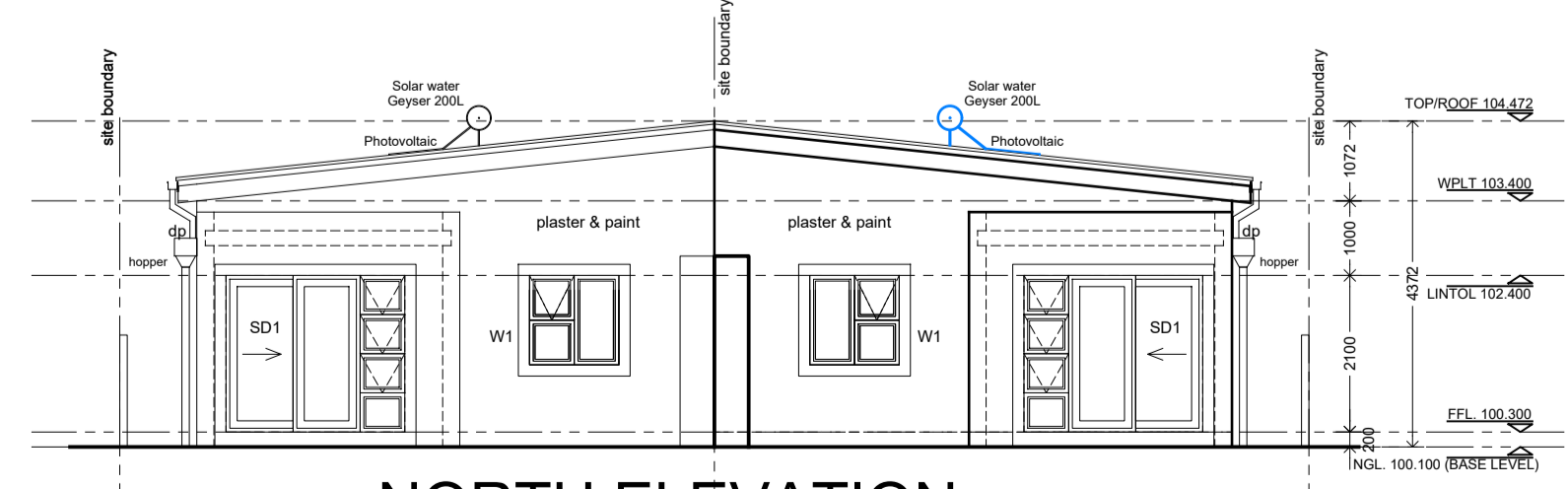
BOUNDARY WALL - STREET ELEVATION



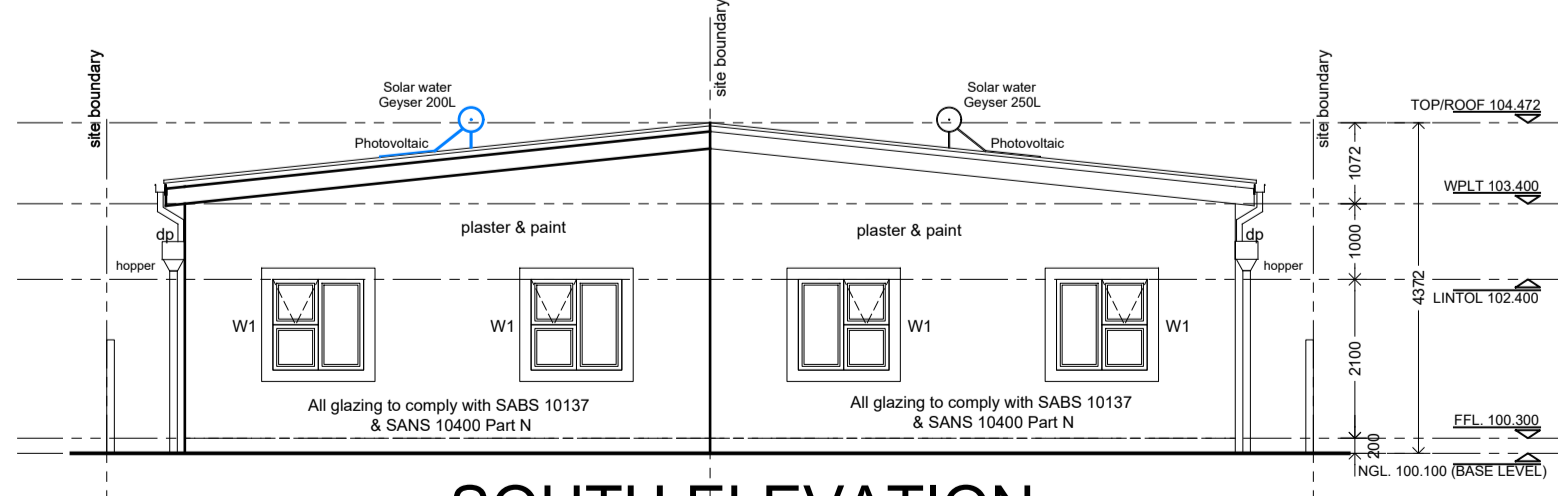
SECTION A-A



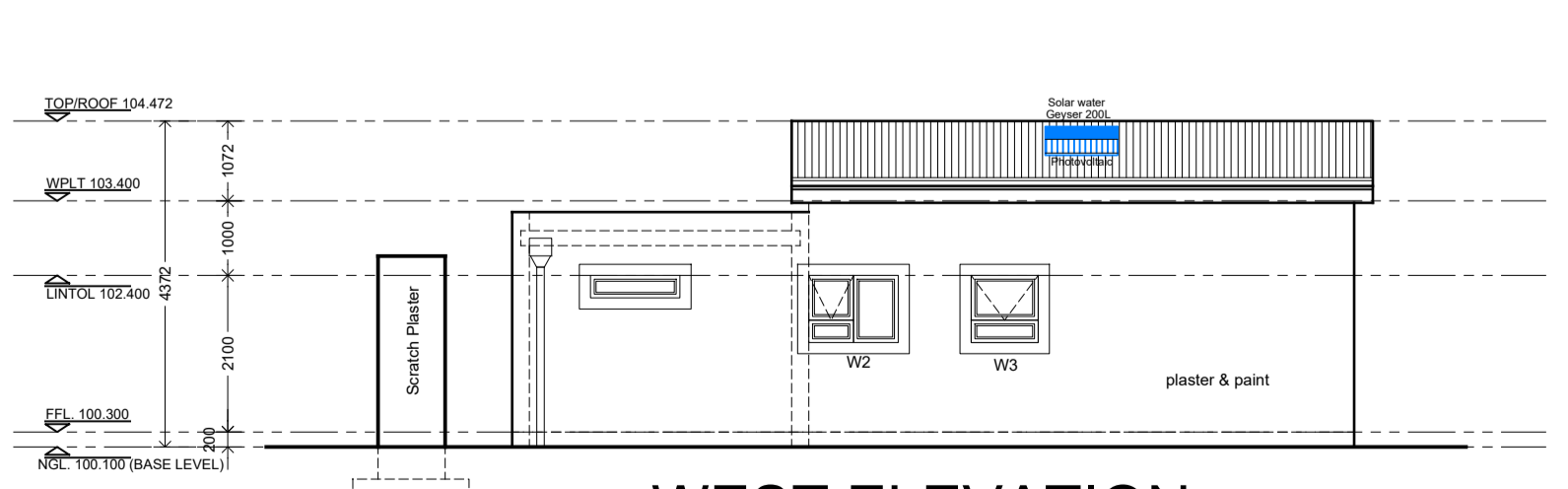
SECTION B-B



NORTH ELEVATION



SOUTH ELEVATION



WEST ELEVATION

FLOOR AREAS:

SITE AREA:	151.27m2
PRO. GROUND FLOOR:	65.69m2
TOTAL:	65.69m2
COVERAGE OF SITE:	43.42%

OWNER:.....

ARCHITECT:.....

CLIENT
 HAGLEY DEVELOPMENT

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SACAP REG. NO. PSAT24707820

PROPOSED DWELLING
 ON ERF 4696 HAGLEY

BUILDING PLAN FOR COUNCIL
 SUBMISSION

DESIGN/DRAMA/CHECK
 AF
 DATE 24.10.03
 SCALE 1:100

4696/CS/2024/01
 Rev 0