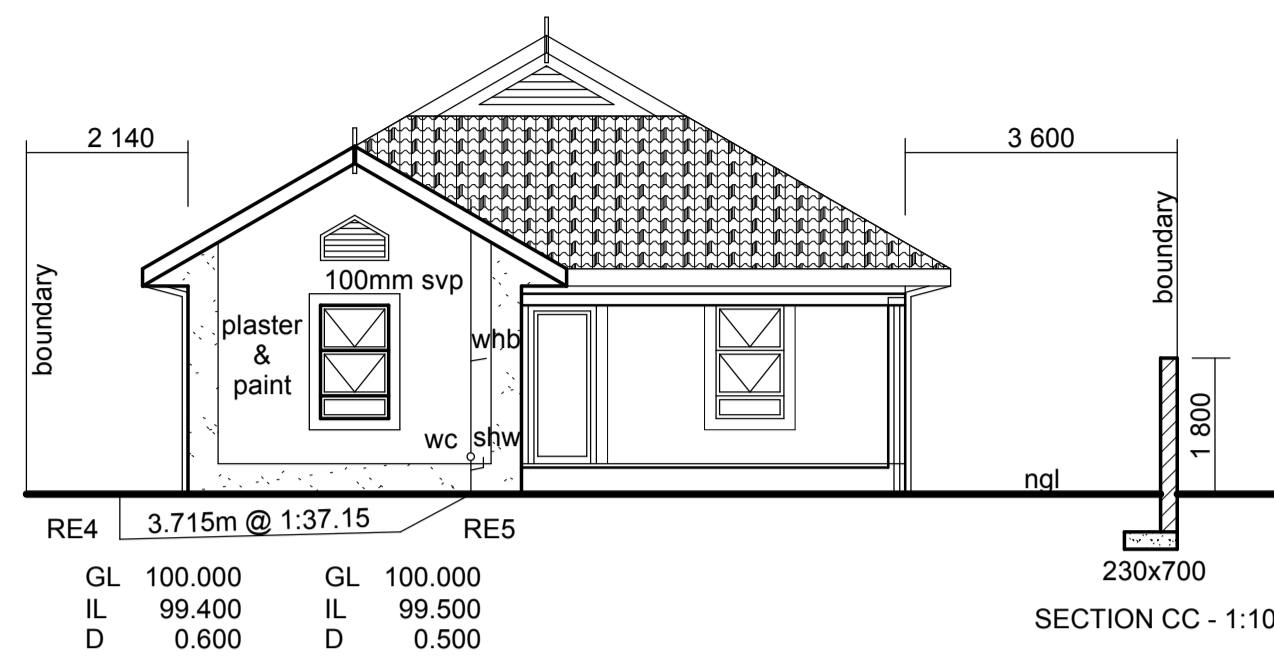
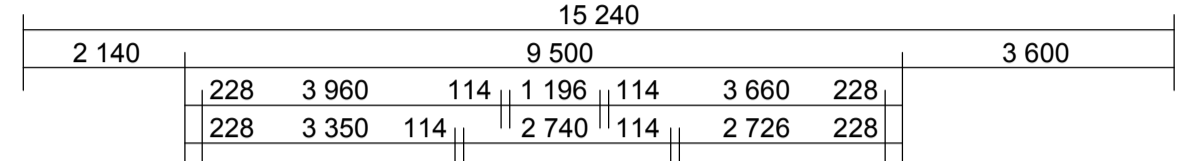
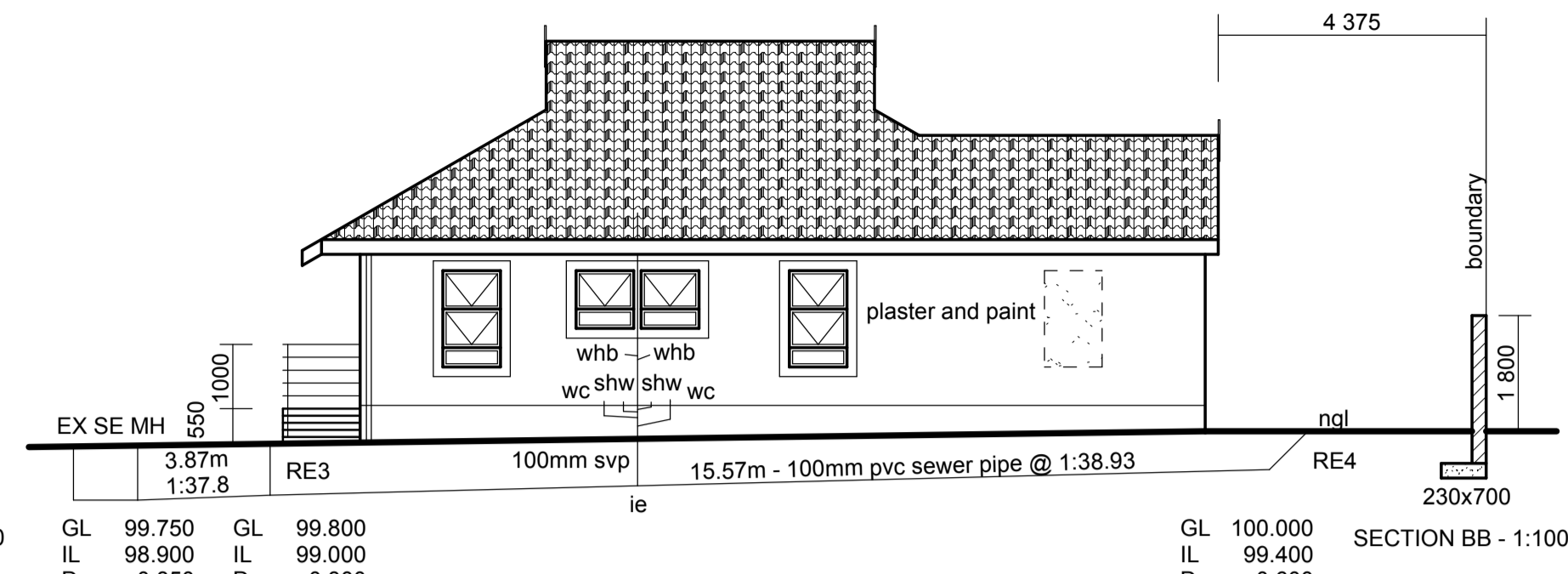


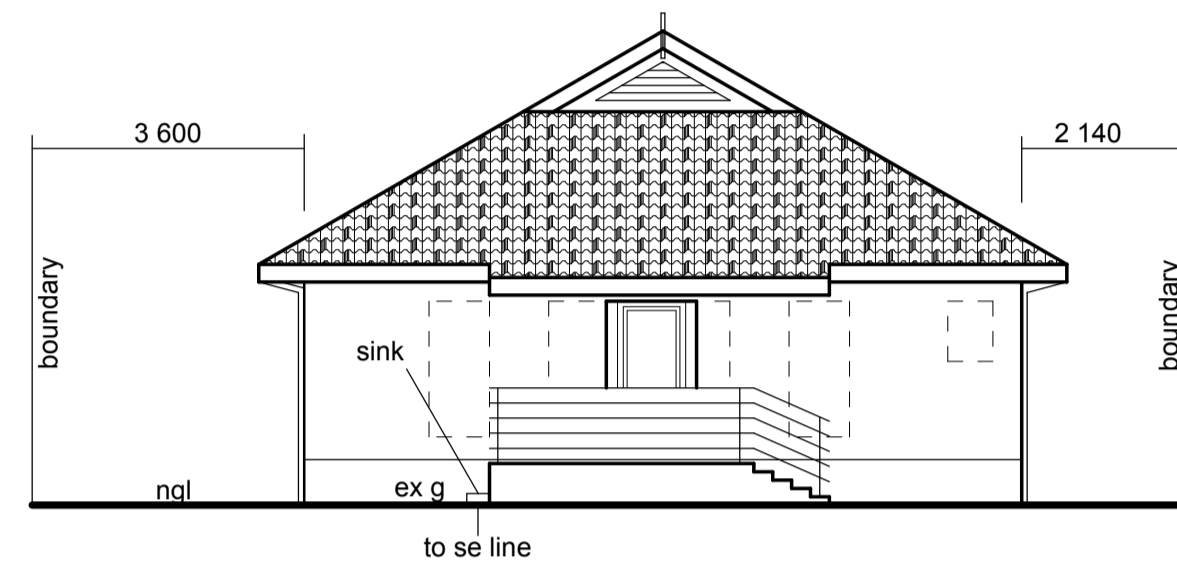
SOUTH WEST ELEVATION - FRONT BOUNDARY WALL 1 - 1:00



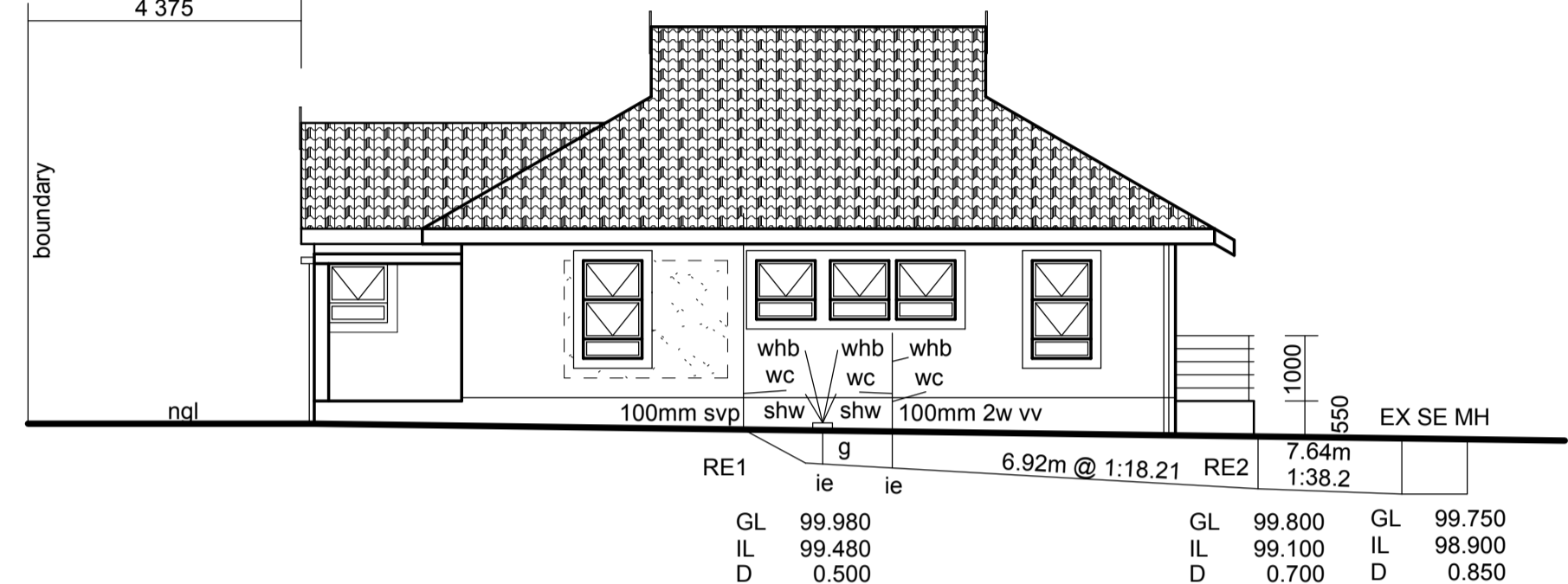
SOUTH WEST ELEVATION - 1:00



NORTH WEST ELEVATION - 1:00



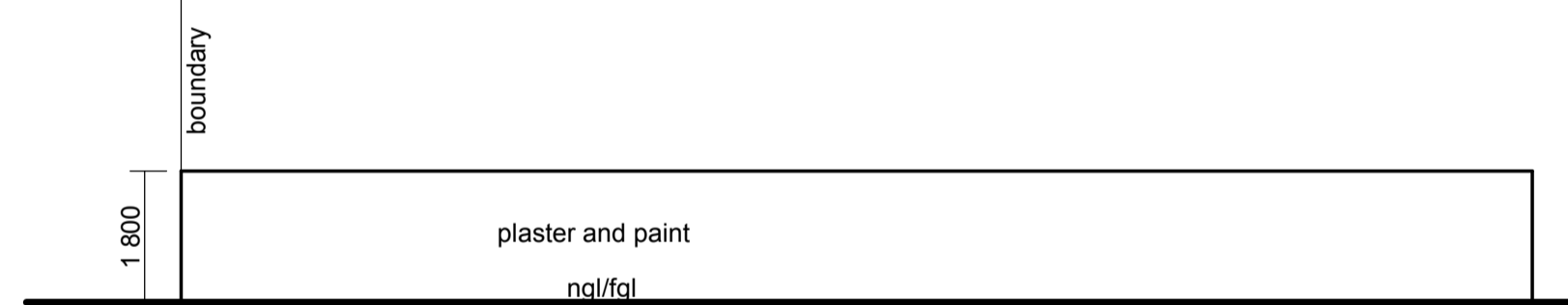
NORTH EAST ELEVATION - 1:00



SOUTH EAST ELEVATION - 1:00



NORTH EAST ELEVATION - BOUNDARY WALL 2 - 1:00



SOUTH EAST ELEVATION - BOUNDARY WALL 3 - 1:00

FENESTRATION
 NETT FLOOR AREA DEWELLING = 96.33m sq.
 GLAZING AREA = 12.96m sq. ((6 x W1) + (6 x W2))
 12.96m sq./96.33m sq. x 100 = 13.45 % (COMPLIES WITH SANS 10400-XA CLAUSE 4.4.4.1.)

AIR LEAKAGE
 SHALL NOT EXCEED 2 litres/s/m sq. OF FENESTRATION AREA
 0.306 litres/s/m sq. OF FIXED GLAZING AND 5 litres/s/m sq.
 FOR SWING DOORS AS PER SANS 613 CLAUSE 4.4.

PIPING
 TO BE INSULATED WITH ISOVER SNAP-ON GLASSWOOL (R-VALUE 1)
 WITH INTERNAL NOMINAL DIAMETER OF 20mm AND WALL THICKNESS OF 15mm
 INCLUDES
 ALL FLOW AND RETURN PIPING WITHIN 1m OF GEYSER
 AND PRESSURE RELIEF PIPING WITHIN 1m OF GEYSER
 ALL PIPE LENGTHS TO BE MINIMISED

GEYSER
 TO BE INSULATED WITH ISOVER GLASSWOOL BLANKET
 (R-VALUE OF 2) WITH FOIL FACING

HOT WATER CONSUMPTION
 30 litres x 4 PERSONS = 120 litres per day
 360 x 365 days = 43.8 kl
 THEREFORE 21.9 kl BY HEAT PUMP

LIGHTING : TOTAL NEW SECOND STOREY AREA = 125.12m sq.

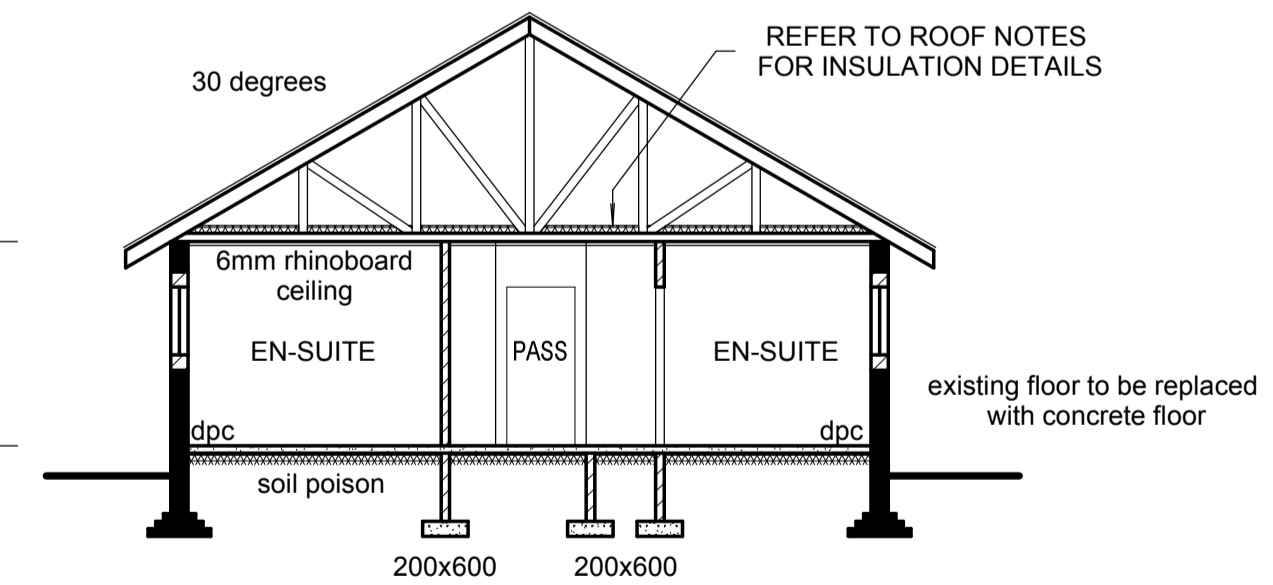
11w x 8 = 88w
 16w x 7 = 112w
TOTAL = 200w

ENERGY DEMAND = 5w/m sq.

5w x 125.12m sq. = 625.6w
 200w/125.12m sq. = 1.60w/m sq. (< 5w/m sq.)

ENERGY CONSUMPTION = 5kWh/m sq.a

5kWh/m sq.a x 125.12m sq. = 625.6kWh.a
 ASSUME LIGHTS ON FROM 5pm TO 10pm (5 HOURS PER DAY)
 52 weeks x 7 days x 5 hour day = 1 820h.a
 LAMPS 200w OR 0.200kW
 0.200kW x 1 820h.a = 364.00kWh.a (< 625.6kWh.a)



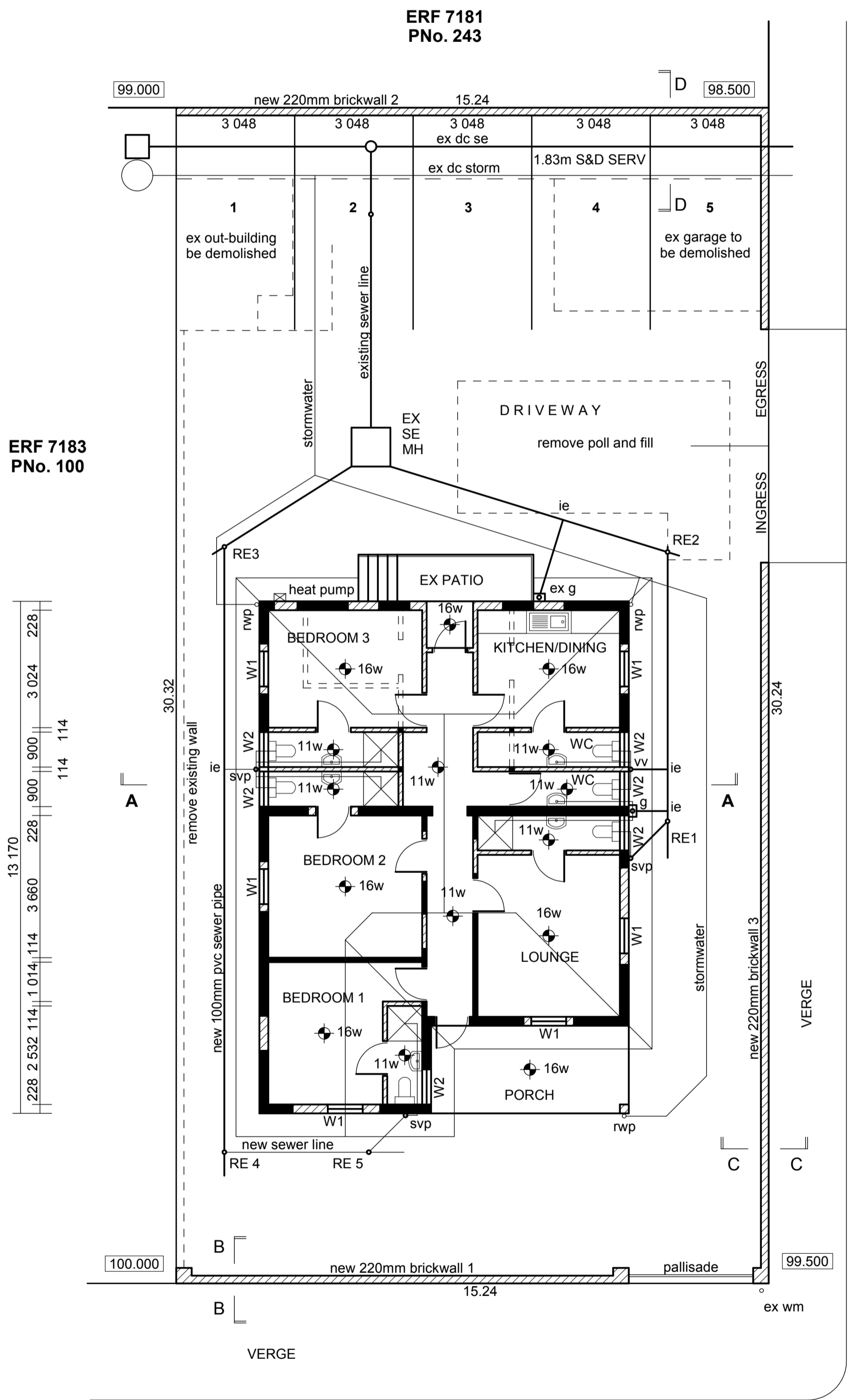
SECTION AA - 1:100

WINDOW SCHEDULE

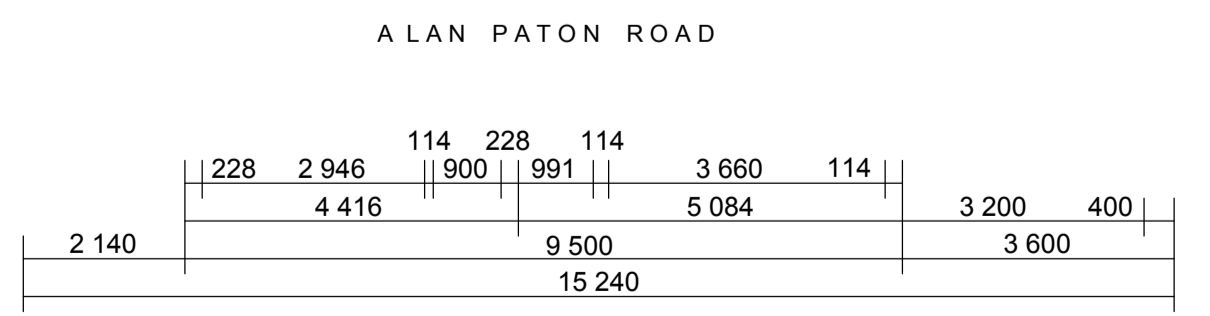
WINDOW No	AREA	No. OFF	MIN GLASS THICKNESS
W1	1.35m sq.	6	4mm toughened safety glass
W2	0.81m sq.	6	4mm toughened safety glass

SCHEDULE OF AREAS

SITE AREA	461.00m sq.
EXISTING DWELLING	125.12m sq.
NO ADDITIONAL AREA	



FLOOR PLAN AND SITE PLAN - 1:100



GENERAL SPECIFICATION

FOUNDATIONS (to engineer's detail)
 230x700 STRIP FOOTINGS TO EXTERNAL WALLS.
 200x600 STRIP FOOTINGS TO INTERNAL WALLS.

FLOORS (to engineer's detail)
 100mm THICK BRC MESH-REINFORCED CONCRETE SLAB
 ON DPM ON 150mm HARCORE.
 SOIL TO BE POISONED AS PER NBR.

WALLS (to engineer's detail)
 228mm BRICKWORKS EXTERNALLY.
 114mm BRICKWORKS INTERNALLY.
 PLASTER AND PAINT BOTH SIDES.
 COMPLIES WITH SANS 10400-XA CLAUSE 4.4.3.2 (a)

LINTOLS (to engineer's detail)

ROOF (to be certified by engineer)
 CONCRETE ROOF TILES ON 38x38 BATTENS
 ON UNDERLAY ON GANG-NAILED ROOF TRUSSES
 @ 750mm MAX c/c - ROOF PITCH 30 DEGREES.
 6mm RHINOBOARD CEILING
 ROOF INSULATION AS PER SANS 204 CLAUSE 4.3.6 TABLE 10
 100mm THICK FLEXIBLE FIBRE GLASS BLANKET WITH A
 DENSITY OF 10-18kg/cubic metre AND THERMAL
 CONDUCTIVITY OF 0.004W/m.k
 MIN. TOTAL REQUIRED R-VALUE OF 2.7m sq.k/W
 ROOF COVERING AND CEILING R-VALUE = 0.50
 ADDED INSULATION R-VALUE = 2.22
 TOTAL = 2.72 (> 2.7)

WINDOW FRAMES
 ALUMINIUM WINDOW FRAMES - 50 MICRON NATURAL

DOOR FRAMES
 4.4mm ALU-SEC CHANNEL

FOBROS CONSTRUCTION CC

CONCEPT DEVELOPMENT | ARCHITECTURE | CONSTRUCTION

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 phone - 031 5634323 fax - 031 5635384
 email: fobros@telkomsa.net

PROJECT
**PROPOSED ADDITIONS AND ALTERATIONS
 TO DWELLING
 ON ERF 7186 DURBAN
 AT 98 ALAN PATON ROAD**

CLIENT
MSS PROPERTY TRUST

DESCRIPTION
FLOOR, SITE PLAN, SECTION & ELEVATIONS

CLIENT'S SIGNATURE & PHONE NUMBER	DRAWING NUMBER	
	98AP	
	SHEET 1 OF 1	
RATE NUMBER		
SCALE	DATE	DRAWN
1:100	04-03-13	M. PILLAY
		Pr S. Arch. T. REG No. ST 1228