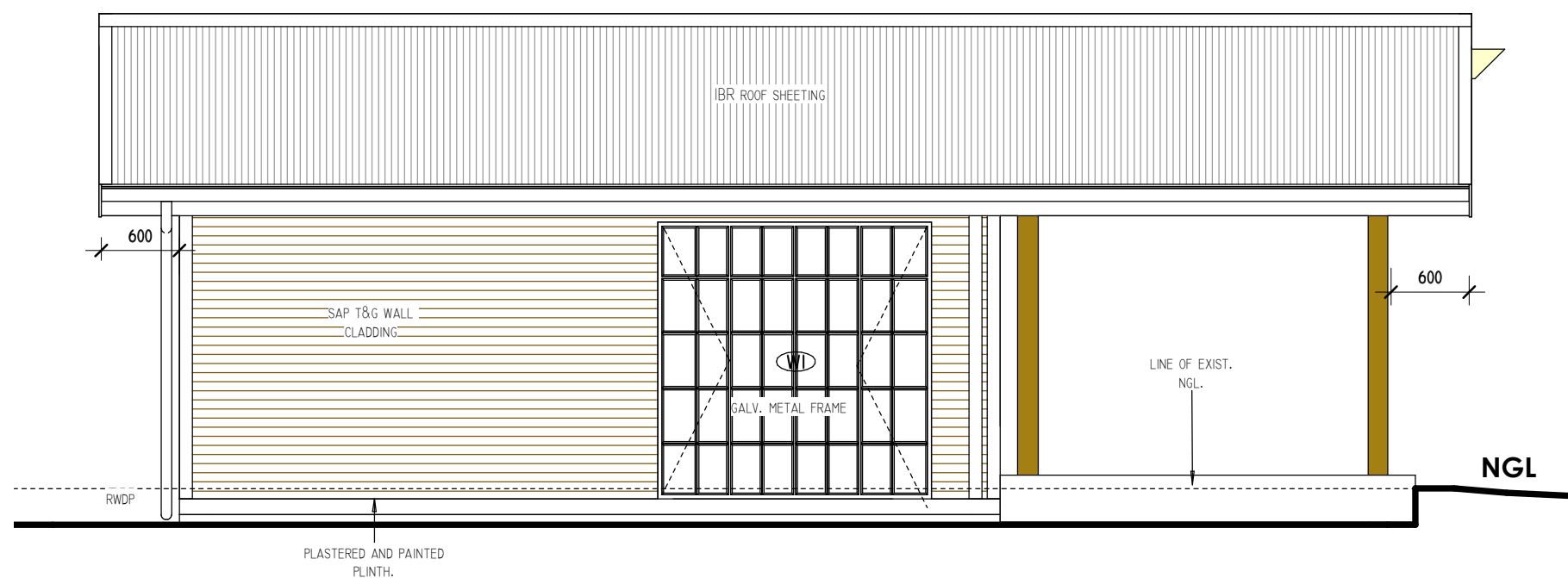


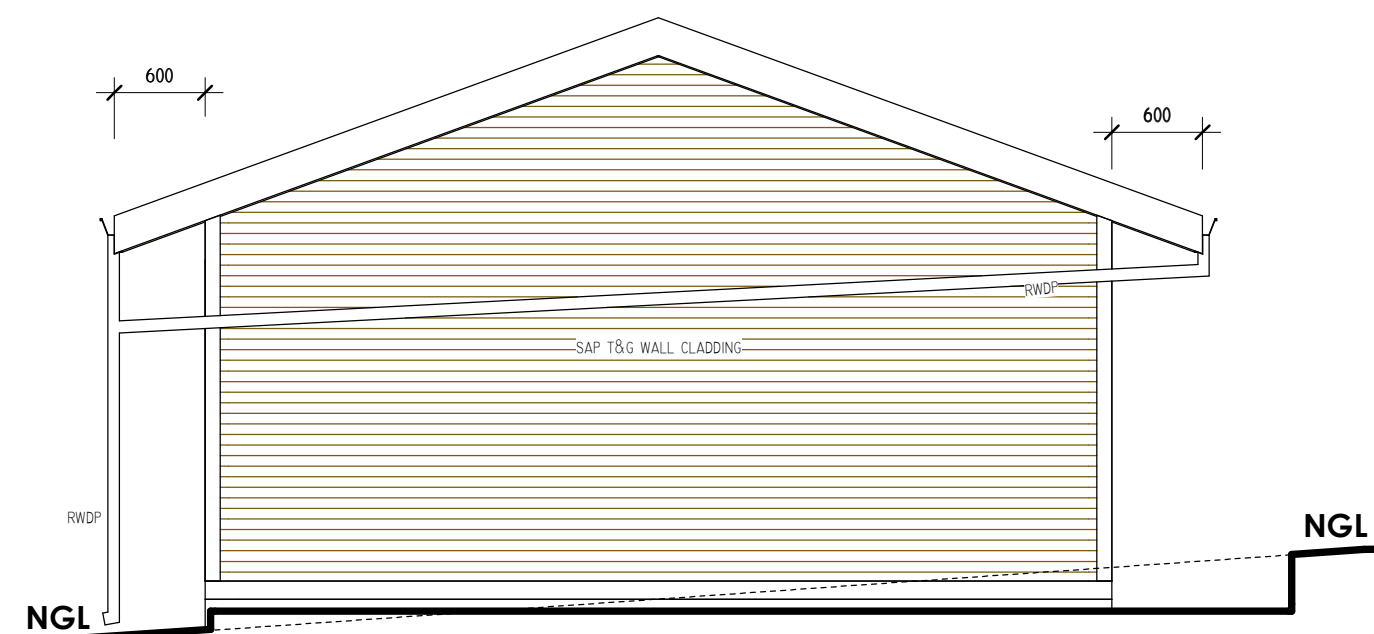
3_North East Elevation

1 : 50



3_South East Elevation

1 : 50



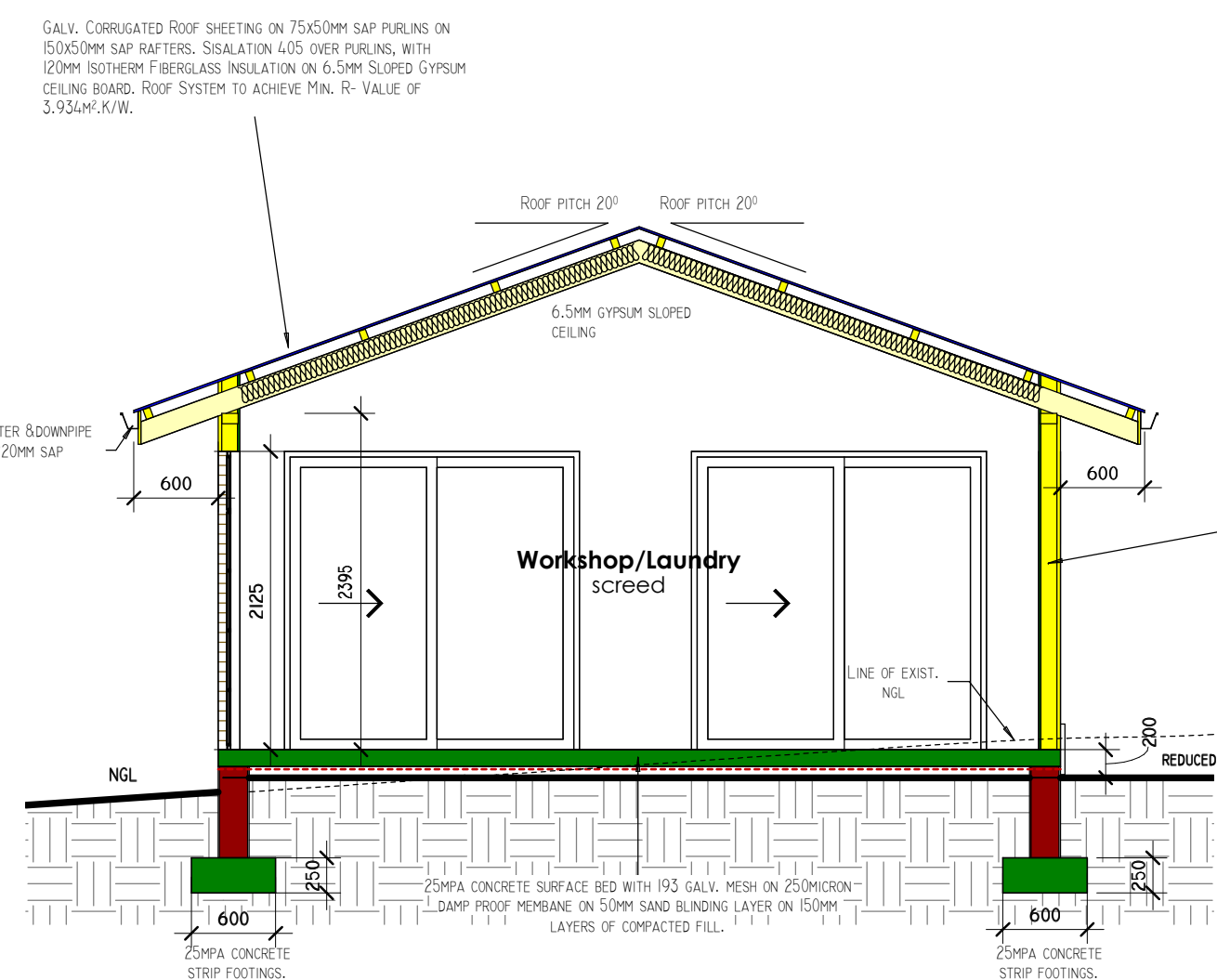
3_South West Elevation

1 : 50



3_North West Elevation

1 : 50



EXTERNAL WALLS COMPLY WITH DEEMED-TO-SATISFY REGULATIONS OF SANS10400-XA AS THE CONSTRUCTION IS 150mm T&G TIMBER FRAMEWORK WITH 135mm AEROLITE FIBERGLASS INSULATION IN CAVITY TO MANUFACTURER SPEC. PLASTERED INTERNALLY & CLADDED EXTERNALLY WITH FIBRE CEMENT TO ACHIEVE A SYSTEM R-VALUE OF 3.934m².K/W.

NOTE: ROOF CONSTRUCTION
Roof Structure to Eng. spec
COLORBOND sheeting, Sisalation 405 over purlins, with 120mm Isotherm Insulation on Gypsum ceiling. Roof System to achieve Min. R-Value of 3.934m².K/W.

NOTE: GLAZING
Glazing to be Single Clear Laminated. Comply with SANS10400-N

NOTE: WALL CONSTRUCTION
External walls Comply with Deemed-To-Satisfy Regulations of SANS10400-XA as the construction is 155mm T&G Timber Framewall with 135mm Aerolite Fiberglass insulation in cavity to manufacturer spec. Gypsum Board Skimmed & Painted internally to achieve a System R-Value of 3.934m².K/W.

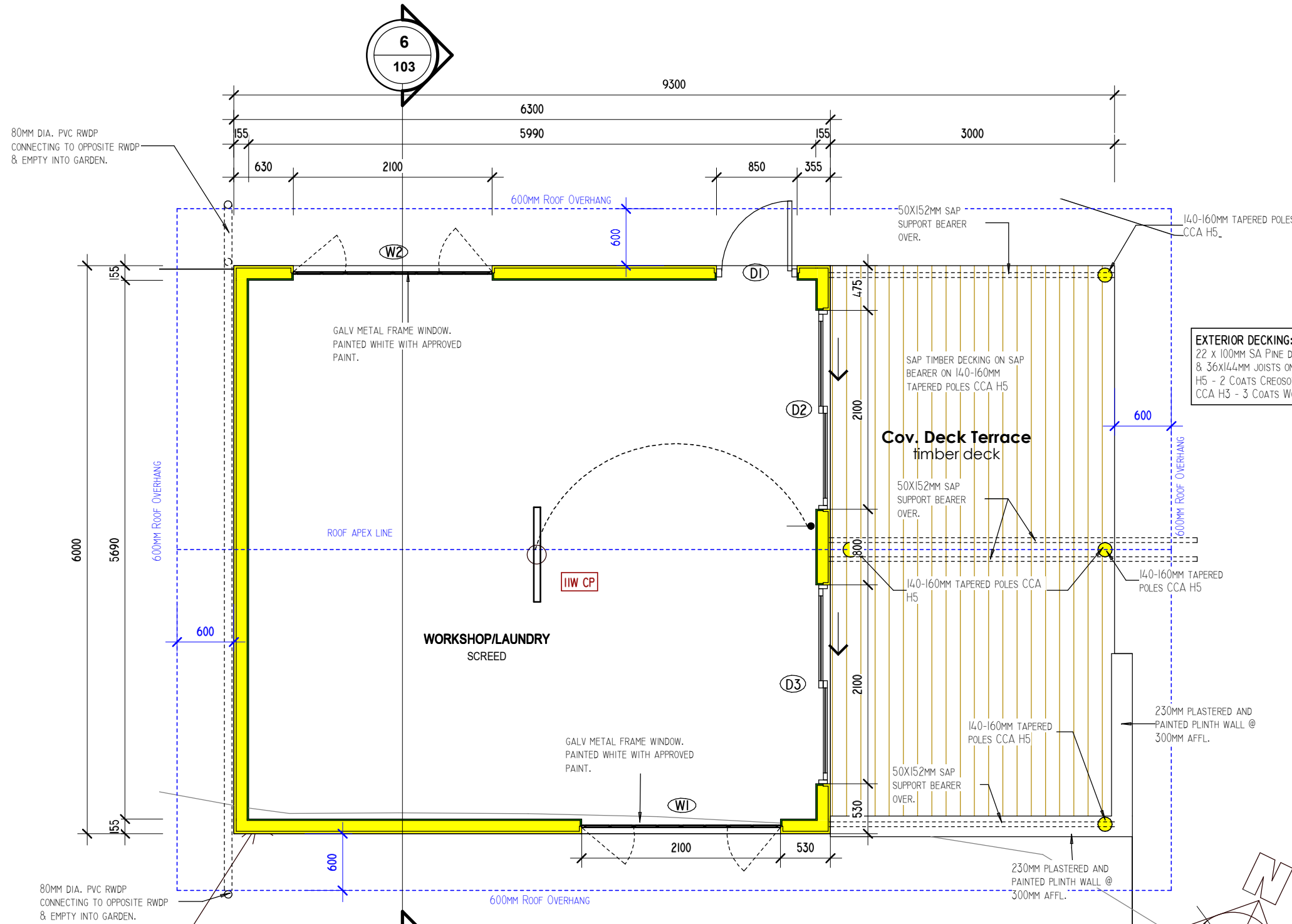
NOTE: HOT WATER SUPPLY
Kitchen and Bathroom
Hot water supply to be by means of SOLAR WATER HEATING with Co-efficient of Performance (COP) of 2.5 at 50°C. Total Population of 4 persons at consumption of 115l per person per day. The Water Heater systems to comply with SANS1307, SANS10106 and SANS10251-1

WATER RETICULATION LEGEND

- Cold Water Supply
- Hot Water Supply
- Shower Fixed
- Stop Cock
- Mixer

ELECTRICAL LEGEND

- Recess Downlight Fitting (Low Voltage/LED)
- Ceiling Mounted Light fitting
- Wall Mounted Light fitting
- 15 amp double plug @ 300mm affl.
- 15 amp double plug @ 1100mm affl.
- Stove connection
- Light Switch



EXTERIOR DECKING:
22 x 100mm SA PINE DECKING ON 44x 44x 4mm BEARERS & 30x40x4mm JOISTS ON 140-160mm TAPERED POLES CCA H5 - 2 COATS CRISOSTE, BEARERS AND JOISTS (PARD) CCA H5 - 3 COATS WOODOC TOTIM.

3_Floor Plan_New Workshop

1 : 50

Occupancy - H3
Occupancy Times - 24 hrs per day
Building Net area - 67m²
Building Total area - 67m²
Climatic Zone - Zone 4

Main Axis Building Orientation - North

Concrete slab on ground

See floor Construction Note

External Wall construction

See wall construction Note

Fenestration Calculations

Nett floor area - 67.00m²
Fenestration area to floor - 15.71m²
Fenestration percentage - 23.4%
Max Conductance allow - 93.8
Max Solar Heat Gain - 8.71

Achieved Aggregate Conductance / Solar Heat Gain

Calculated Conductance - 90.02
Calculated Solar Heat Gain - 7.62
Conductance / Solar Heat Gain Available
Calculated Conductance - 3.78
Calculated Solar Heat Gain - 1.09

Roof construction

Minimum Total R-value required: 3.7m²K/W

Basic roof assembly - Metal sheeting
- Ventilated
- Pitch 3° degrees with 6.5mm Gypsum Horizontal ceiling.
Roof covering - 0.03 m²K/W
Ceiling - 0.06 m²K/W
Required insulation - 3.5 m²K/W

Sisalation 405 Reflective Foil Laminate used under roof sheeting - 1.26 R-value
120mm ISOFORM used between trusses above ceiling - 2.3 R-value
TOTAL R VALUE- 3.56

COMPLIES TO SANS204 REQUIREMENTS.

Air filtration & Leakage

Max permissible openable glazing - 2.0 L/sm²
Max permissible fixed glazing - 0.31 L/sm²
Max permissible doors - 5.0 L/sm²

External doors - Habitable Room - Door seal required
Roof, walls and floor to be constructed to minimise air leakage in conditional space

Services

Lighting and power

Max. energy demand - 335W
Max. energy consumption per Annum - 335kWh
Total lamp energy demand - 28W
Total energy demand - 0.41W/m²
Total energy consumption - Lights - 60.06kWh or 0.90kWh/m²
Available annual energy consumption - Lights - 274.94kWh
Hot water service
Not Applicable for its use (Workshop/Laundry)

AREA SCHEDULE

ERF AREA - 40.4358 HA

NEWLY ADDED AREAS

INTERNAL AREA = 38m²
COV. DECK TERRACE = 19m²

DOOR/WINDOW SCHEDULE		SAFETY GLAZING	SAFETY GLAZING
DOOR/ WINDOW	813X2032mm SOLID TIMBER DOOR TO CLIENT'S SPEC.	ALUMINIUM 2125X2100 SLIDING DOOR.	SMALL PANE GALV. STEEL FRAME WINDOW 2100X2100 DOUBLE SIDE HUNG WITH FIXED CENTER.
POSITION			
DOOR FRAME	HARDWOOD TIMBER FRAME AS PER WALL THICKNESS.	ALUMINIUM 2125X6100 SLIDING DOOR WITH SIDE HUNG OPENABLE WINDOWS	SMALL PANE GALV. STEEL FRAME WINDOW 2100X2100 DOUBLE SIDE HUNG WITH FIXED CENTER.
NUMBER OF	1	2	2
GLAZING	N/A	SINGLE CLEAR LAMINATED SAFETYGLASS COMPLY WITH SANS10400-N	SINGLE CLEAR LAMINATED SAFETYGLASS COMPLY WITH SANS10400-N
IRONMONGERY	HANDLES AND LOCK MECHANISMS AS PER CLIENTS SPEC.	SUPPLIED WITH COMPLETE DOOR.	SUPPLIED WITH COMPLETE WINDOW
OPENING	LHS	3&RHS AND DLHS	

PROJECT NAME

**PROPOSED NEW ADDITIONS
FOR TENIQUA TRUST ON
PORTION 70 OF 203
ELANDSKRAAL, SEDGEFIELD**

DRAWING TITLE

WORKSHOP/LAUNDRY

DRAWING NO. **103**

REV. NO.

DATE **08/22/18**

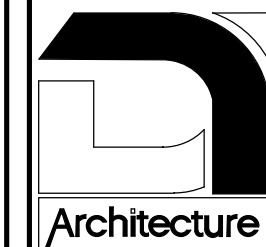
SCALE **As indicated**

CLIENT

TENIQUA TRUST

SIGNATURE

DESIGNER
Dale Faba
Prof. Architectural Technologist



SIGNATURE

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Client Ref: Workshop/Laundry