

FLOOR PLAN - Electrical Layout

Scale 1:100

ELECTRICAL LEGEND:

- LIGHT SWITCH (1100aff)
- TWO WAY SWITCH (1100 aff)
- 2 WAY DIMMER SWITCH (1100 aff)
- CEILING MOUNTED LIGHT POINT
- WALL MOUNTED LIGHT POINT
- RECESSED DOWN LIGHTERS (LOW VOLTAGE 38")
- SINGLE FLUORESCENT
- PENDANT LIGHT FITTING
- 15 amp SINGLE PLUG POINT 350mm ABOVE FFL
- 15 amp SINGLE PLUG POINT 1100mm ABOVE FFL
- 15 amp DOUBLE PLUG POINT 350mm ABOVE FFL
- 15 amp DOUBLE PLUG POINT 1100mm ABOVE FFL
- 3 PHASE SINGLE PLUG POINT (for stove)
- STOVE ISOLATOR SWITCH
- STOVE EXTRACTOR FAN
- TV AERIAL POINT
- TELEPHONE POINT
- ELECTRIC GARAGE DOOR OPENER
- DISTRIBUTION BOARD
- GEYSER POSITION OVER

BE ALL NEW ELECTRICAL CONNECTIONS TO BE MADE AND EXISTING CONNECTIONS REMAIN IN POSITION TO BE DISCONNECTED ON SITE



WOODEN PLATFORM FOR SOLAR HEATER

GENERAL NOTES

- Main supply shown on this drawing is diagrammatic only. Plumber to establish layout of existing pipework on site.
- Manufacturers instructions regarding the installation of water heaters are to be strictly adhered to
- All copper pipework in the building to be class 2 copper.
- For every installation - hot left, cold right.
- Expansion release valve will drip during the heating cycle. The position of the outlet to be confirmed by the Architect.

WATER SUPPLY NOTES

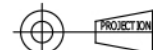

- SETTING OUT:
 - The layouts reflected on the plans are diagrammatic.
 - The installation shall be properly co-ordinated with all other services and crossovers should be avoided wherever possible.
- PIPE SIZES:
 - Sizes shown on the drawings are as probable demand and SANS10252-1 Annexure F sizes for the type of pipe concerned namely;
 - Inside diameter for galvanised mild steel (GMS)
 - Outside diameter for copper, PVC, HDPE & POLYCOP.
 - The wall thickness varies for different classes of pipe resulting in various internal diameters. As the water flow is affected by the internal diameter the pipes must accord with the class specified & should not be varied either up or down.
- All hot water pipe insulation to be have a min R value of 1 as per table 1 SANS 10400-XA
- TRENCHING:
 - Buried pipes should be located in areas where they can be reached for maintenance with least disruption & expense. Cover shall be a minimum 450mm except under heavy duty paved areas where the cover shall be 750mm.
- SHOWERS:
 - Cold & hot water pressures shall be equalized by taking both supplies off the low pressure side of the pressure reducing valve.
- ISOLATING VALVES:
 - Gate valves to suit the relevant pipe diameter shall be installed as indicated
- STANDPIPES & HOSE BIBS:
 - Where indicated on the drawing fix a hose bibtap with hose union & wall plate elbow plugged & screwed to the external wall face where possible.
 - The hose bib branch should occur after the gate valve but before any pressure reducing valve.
- WATER HEATERS:
 - Provide Type 2 water heater given in SANS 151 as per SANS 10252-1.
 - Heat pumps to be used as main source of power with electricity as back-up power supply. Heat pump installations to manufacturer's specifications.
 - A safety tray with drain should be provided under a type 2 water heater, to accept accidental leakage or overflow.
 - Where water heater is located in roof trusses provide a wooden platform to support all water heaters, the wooden platform shall be constructed as follows:
 - The dimensions of the platform shall not be less than those of the water heater, or the safety tray, plus an additional working space 600 mm in width that extends over the full length of one side of the platform;
 - The supports shall be constructed from 114 mm x 38 mm structural timber @ max spacing of 350mm centers.
 - The platform decking shall be constructed of 75mm x 25mm timber members at right angles to the supports @ a maximum spacing of 25 mm where the tank is of a lightweight metal tank, or
 - Abutting on one another if the decking is to support a storage tank or water heater made from plastics material, fibre cement or fibreglass.

FLOOR PLAN - Water Reticulation

Scale 1:100

Conc Ramp

SANS 10252-1 LEGEND	
SYMBOLS & ABBREVIATIONS	MATERIALS
	COP Copper
Pipe carrying cold water	HDPE High density polyethylene
Pipe crossing (not connecting)	SS Stainless steel
Pipe carrying hot water	
Pipe carrying hot water (return)	FIXTURES AND FITTINGS
Lagged pipe	BT Tap (bath)
Normal direction of flow	ET External tap
Storage water heater (domestic type)	PRV Pressure reducing valve
Riser pipe (plan view)	PUMP Pump
Tap (external)	BT Tap (bath)
Mixer (thermostatically controlled)	BT Tap (bath)
Mixer (single manual controls, single lever)	BT Tap (bath)
Mixer (two manual controls)	BT Tap (bath)
Shower (fixed)	BT Tap (bath)
Shower (free)	BT Tap (bath)
Stop cock	BT Tap (bath)
Water meter	BT Tap (bath)
Solar Heater	BT Tap (bath)
Pressure reducing valve	BT Tap (bath)
Balancing device (hot water control)	BT Tap (bath)

REV	REVISION DESCRIPTION					BY	CHKD	AUTH	DATE
DRAWN BY	SIGN	DATE	PROJECT NAME: PROPOSED STEVE BIKO TLOTLANONG DAYCARE CENTER						
ENGINEER			JOB NAME: PROPOSED CRECHE						SIZE: A1
CHECKED			Drawing Description: ELECTRICAL LAYOUT WATER RETICULATION					REV: 0	
APPROVED			DRAWING No:					REV: 0	
SCALE	AS INDICATED		AREAS:		PROPOSED AREAS = 462.153 m2				SHEET:
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