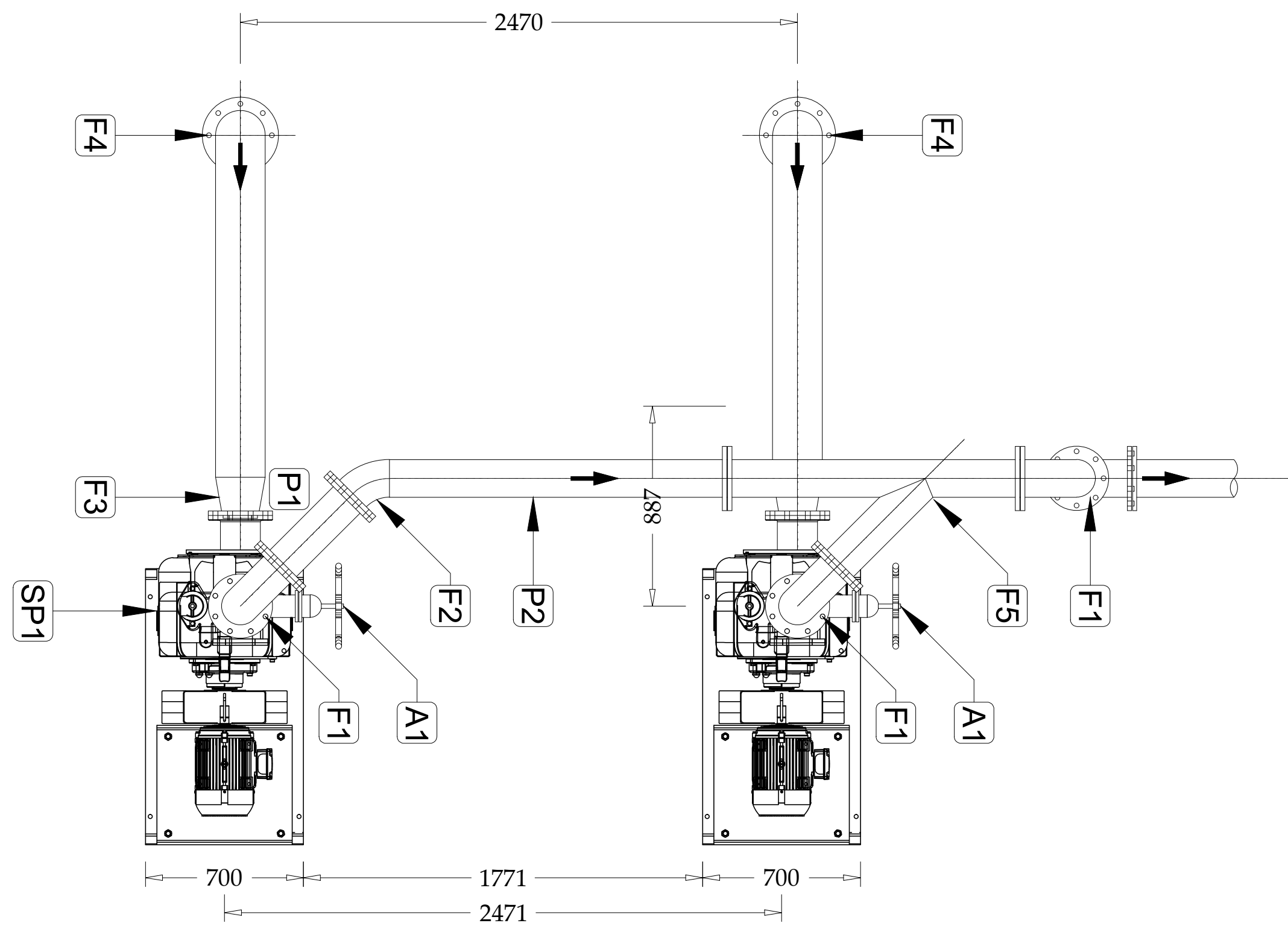
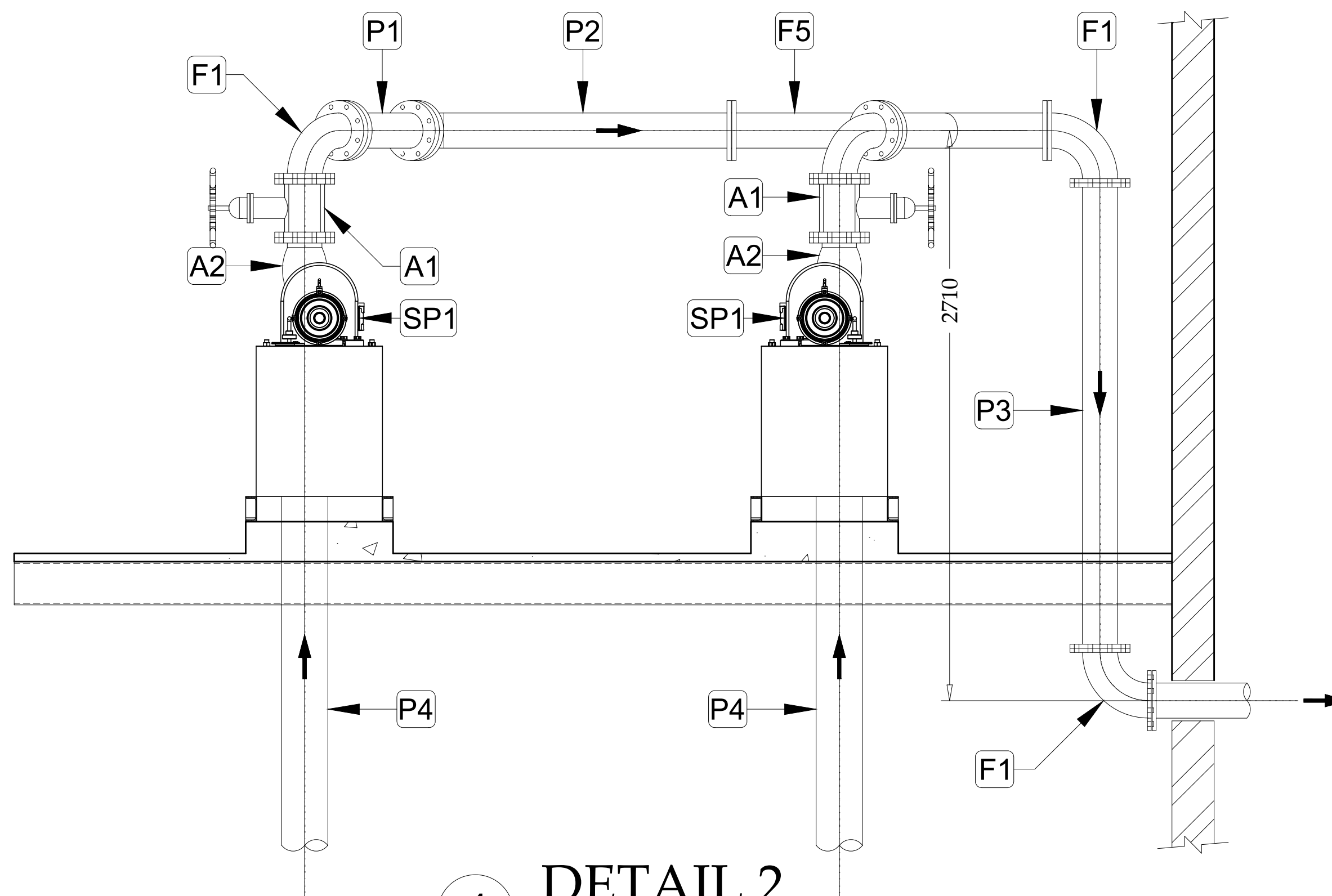




1 DETAIL 1
1:10



1 DETAIL 2
1:10

PUMP SCHEDULE			
ITEM	DESCRIPTION	NO. OFF	ELECTRICAL POWER RATING
SP1	SELF-PRIMING PUMP	2	11kV, 380V, 50Hz
PIPE SCHEDULE			
ITEM	DESCRIPTION	SIZE	DIMENSIONS NO. OFF
P1	150 NB STEEL PIPE	150mm	440mm 1
P2	150 NB STEEL PIPE	150mm	1500mm 1
P3	150 NB STEEL PIPE	150mm	2210mm 1
P4	200 NB STEEL PIPE	200mm	4365mm 2
P4	200 NB STEEL PIPE	200mm	1165mm 2
PIPE FITTING SCHEDULE			
ITEM	DESCRIPTION	SIZE	NO. OFF
F1	ELBOW - FLANGED - CS - CLASS 150	150mm Ø - 150mm Ø	4
F2	ELBOW - FLANGED - CS - CLASS 150	150mm Ø - 150mm Ø	1
F3	REDUCER - FLANGED - CS - CLASS 150	200mm Ø - 80mm Ø	2
F4	ELBOW - FLANGED - CS - CLASS 150	200mm Ø - 200mm Ø	2
F5	Y-JUNCTION - FLANGED - CS - CLASS 150	200mm Ø - 200mm Ø	2
PIPE ACCESSORY SCHEDULE			
ITEM	DESCRIPTION	SIZE	NO. OFF
A1	PN16 GATE VALVE	150mm Ø - 150mm Ø	2
A2	PN16 BALL TYPE NON-RETURN VALVE	150mm Ø - 150mm Ø	2

REV	DATE	COMMENTS	BY

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PROJECT:

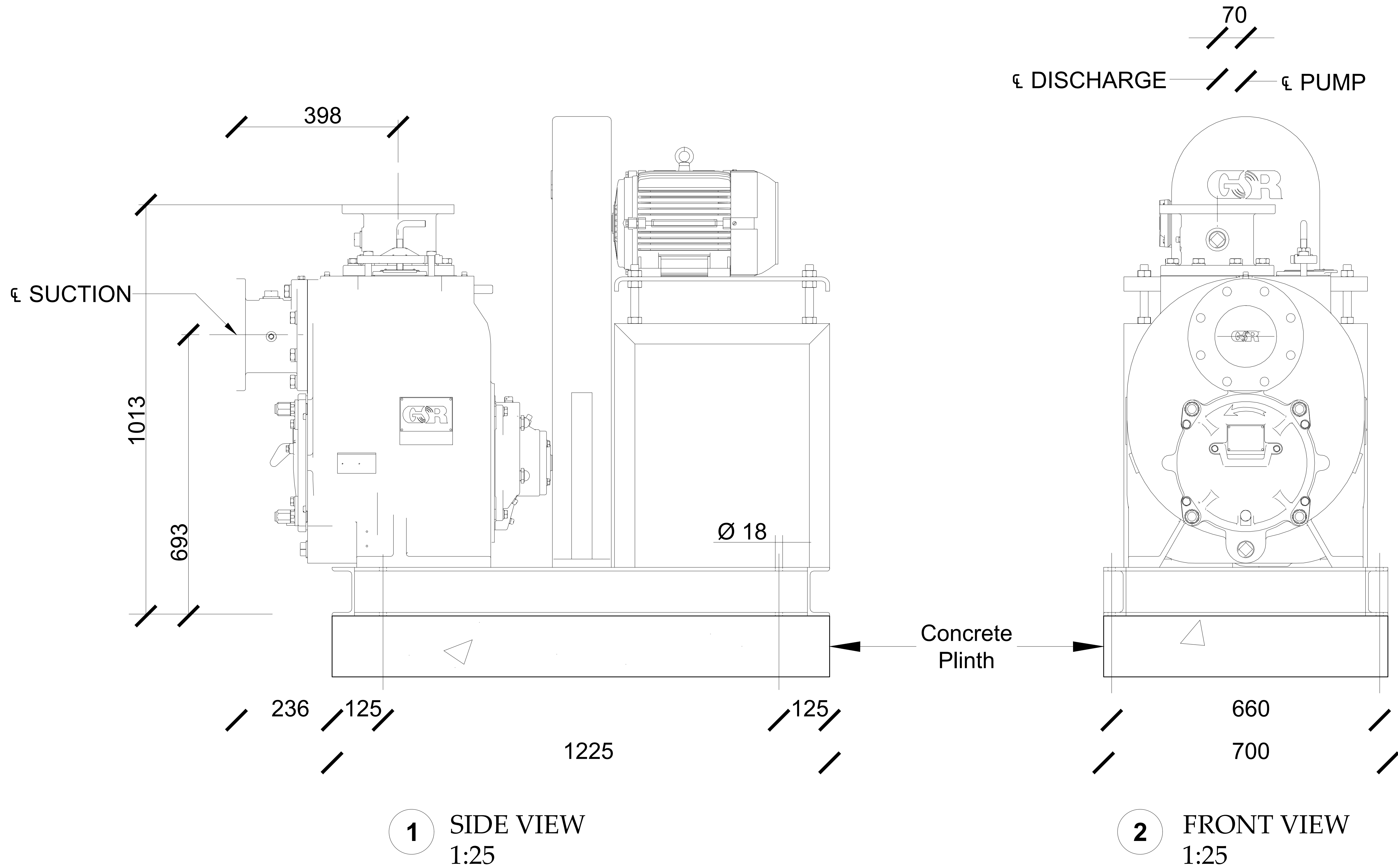
BELA-BELA LOCAL MUNICIPALITY
UPGRADING OF PIENAARSRIJVER SEWER PUMP
STATION (WARD 8)
CONTRACT NUMBER: 9/31/340 (29)

DRAWING TITLE:

**PUMP DELIVERY
PIPEWORK DETAILS**

CONSULTANTS SIGNATURE:

DRAWN: MOKWATLO	CHECKED: BANDA	DESIGNED: MOKWATLO	SCALE: 1:100
DRAWING NUMBER: P00 097D/003		REV No: 00	DWG SIZE: A1



- NOTES:**
1. Suction - NB 150 16 bar din2527/bs4504 NP 16 bar (8 holes Ø22 on PCD 240)
 2. delivery - NB 150 16 bar din2527/bs4504 NP bar (8 holes Ø22 on PCD 240)
 3. Holes straddle centre line
 4. Electric motor largest frame size of drive selection required is out of shown data contact factory
 5. Fabrication tolerances of +/- 5mm
 6. All sharp edges to be rounded

REV	DATE	COMMENTS	BY

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PROJECT:

BELA-BELA LOCAL MUNICIPALITY
UPGRADING OF PIENARSRIWER SEWER PUMP
STATION (WARD 8)
CONTRACT NUMBER: 9/3/1/340 (29)

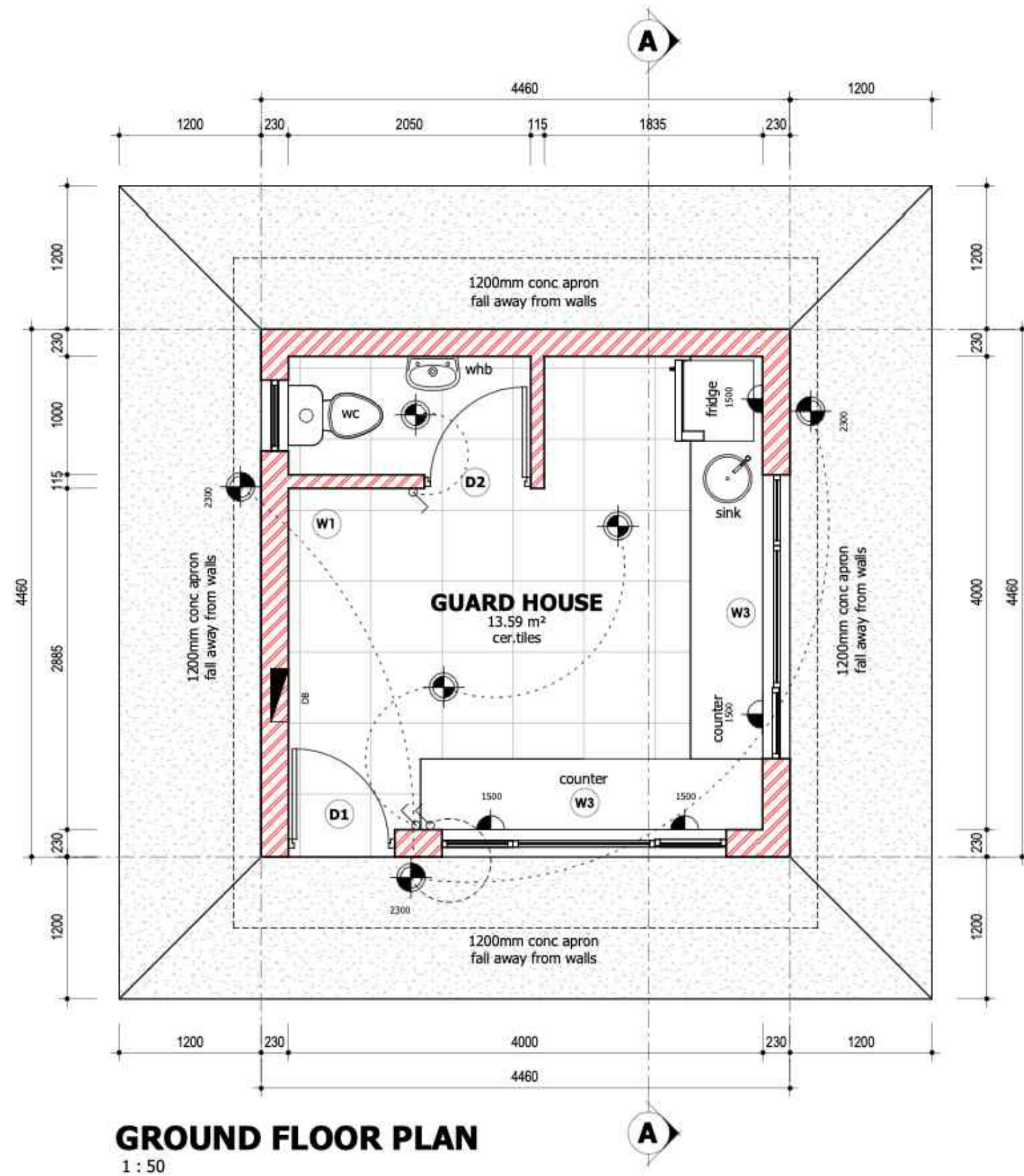
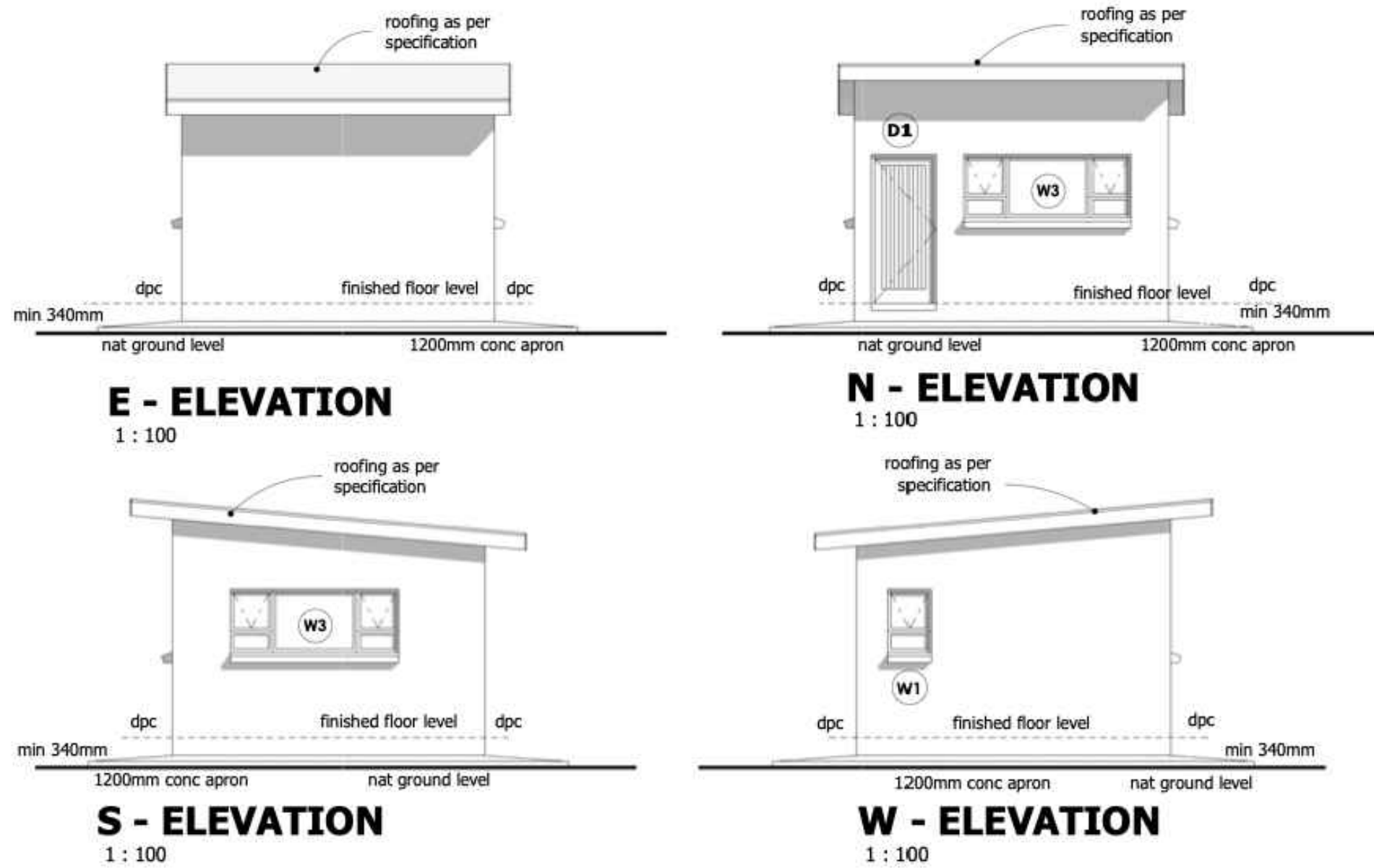
DRAWING TITLE:

GORMAN-RUPP PUMP
MODEL - T6A3S-B

CONSULTANTS SIGNATURE:

DRAWN: MOKWATLO	CHECKED: BANDA	DESIGNED: MOKWATLO	SCALE: 1:100
DRAWING NUMBER: P00 097D/004	REV No: 00	DWG SIZE: A1	

MAX PULLIEYS		MOTOR FRAME	BELT CRS		SHAFT DIA.		BASE SIZE
SPC MAX PULLEY: 315	4 GROOVE		MIN	MAX	PUMP	MOTOR	
SPB MAX PULLEY: 315	6 GROOVE	112	510	560	1 ½"	28	OCB4
		112	530	590		28	



GENERAL NOTES/SPECIFICATIONS :

CONTRACTOR :
All materials etc. to be fitted in strict accordance with Manufacturers specifications.
All specifications etc. to be in accordance with model preambles for trades as published by - the Association of South African Quantity Surveyors.
All work done in accordance with the National Building Regulations (South African Code of Practice and Building Standards Act, Act SABS 0400-1990.
All electrical wires in walls, floors to run in SABS approved conduits.

GENERAL NOTES :
Water Meter and Connection to be min. 20mm dia.
All steps to be determined on site, min 250 tread min 170 riser.
Chimney to be min 1000mm above roof line.

CONSTRUCTION NOTES :
FOUNDATIONS:
Foundations to be 750x230mm 30Mpa concrete strip foundations, cast in to trenches. Soil to be poisened inside trenches as per SANS 1165. 10 year written guarantee to be provided by Pest Control Specialists.

FOUNDATION WALLS:
Foundation walls and widths: (see details)
000 - 700mm high - 230mm wide
700 - 1100mm high - 345mm wide
1100 - 1700mm high - 345mm wide with 115mm concrete filling
1700 - 2400mm high - 460mm wide with 115mm concrete filling

COLUMN FOUNDATIONS:
Concrete footings for steel columns strictly to Engineer's specifications

WALLS :
EXTERNAL :
Galvanised brickforce to be used every 2nd brick course from foundation to floor slab level. Above floor level brickforce to be used every 4th course and above all openings every course for 5 courses and thereafter every 4th course. Raked as plaster joints as indicated.

Walls to be smooth plastered finish over standard masonry construction. Primed and painted with high-grade external paint. Colour as per Clients approval.

INTERNAL :
Walls to be smooth plastered finish over standard masonry construction. Primed and painted with high-grade external paint. Colour as per Clients approval.

BATHROOMS :
Walls to be tiled and grouted from floor to ceilings.
Client to choose design. Kitchen splashbacks :
Walls above kitchen counter to be ceramic tiled and grouted from counter surface to under side of wall units where applicable.

ROOFING :
KLIPLOK @ 5 degree pitch - Galvanised steel Z200 complying with ISQ 550 (3T) (A653) with a Chromadek® colour (dark grey) coated finish to one side with a Papyrus white backing coat.

FLOORS :
25mm screed on 100mm mesh re-inforced slab on 250 micron dpm on 50mm clean sand on well compacted fill in layers of 150mm maximum compacted to 100% MOD AASHTO. Soil to be poisened.

First Floor Slabs to be min 170mm R.C. Concrete slabs as per Structural Engineers detail and design.

INTERNAL :
Sanitary Ware & Fittings :
Garden to have 1 tap, wall mounted.

SKIRTING :
150mm high SA pine skirting, primed painted with white enamel paint.

WINDOWS :
Aluminium Window with all seals and gaskets etc.

Clear float glass according to SABS 0400 & SABS 0137.

To comply with AAMSA specifications.

Obscure glass according to SABS 0400 & SABS 0137 to bathrooms.

CEILINGS :
6.4mm "RHINOBOARD" square edged Gypsum plasterboard fixed to 38x50mm SA pine battens at 450mm c/c. "FIBATAP" fixed over joints finished with minimum 3mm and maximum 6mm thick coat of "RHINOLITE" gypsum skim plaster to smooth polished surface in strict accordance with the manufacturers instructions. 75mm Rhino coved cornice painted as per Ceiling. 1 coat primer and 2 coats Velvago Matt white paint. Finishing coats to be applied with short hair roller.

No ceiling in garage.

INSULATION :
Gundie UT White 250 µm roofing underlay conforming to SABS mark 952-1985 type E, laid with a slight sag and with a minimum overlap of 100mm over timber rafters (at approximately 900mm centres) and fixed concurrent with tiling battens, turned down at eaves and sealed into eaves gutter.

CUPBOARDS AND KITCHEN UNITS :
Kitchen cupboards and counter tops :
Carcasses to floor and wall units all be edge, melamine finish.
Doors to be chosen by client. Counter tops to be post formed as per client. Door handles to be chosen as per client. Kitchen layout as indicated.

WINDOW CILLS :
Internal - 10mm timber cill - painted.
External - brick on edge (plastered) - 15° pitch.

AREA SCHEDULE

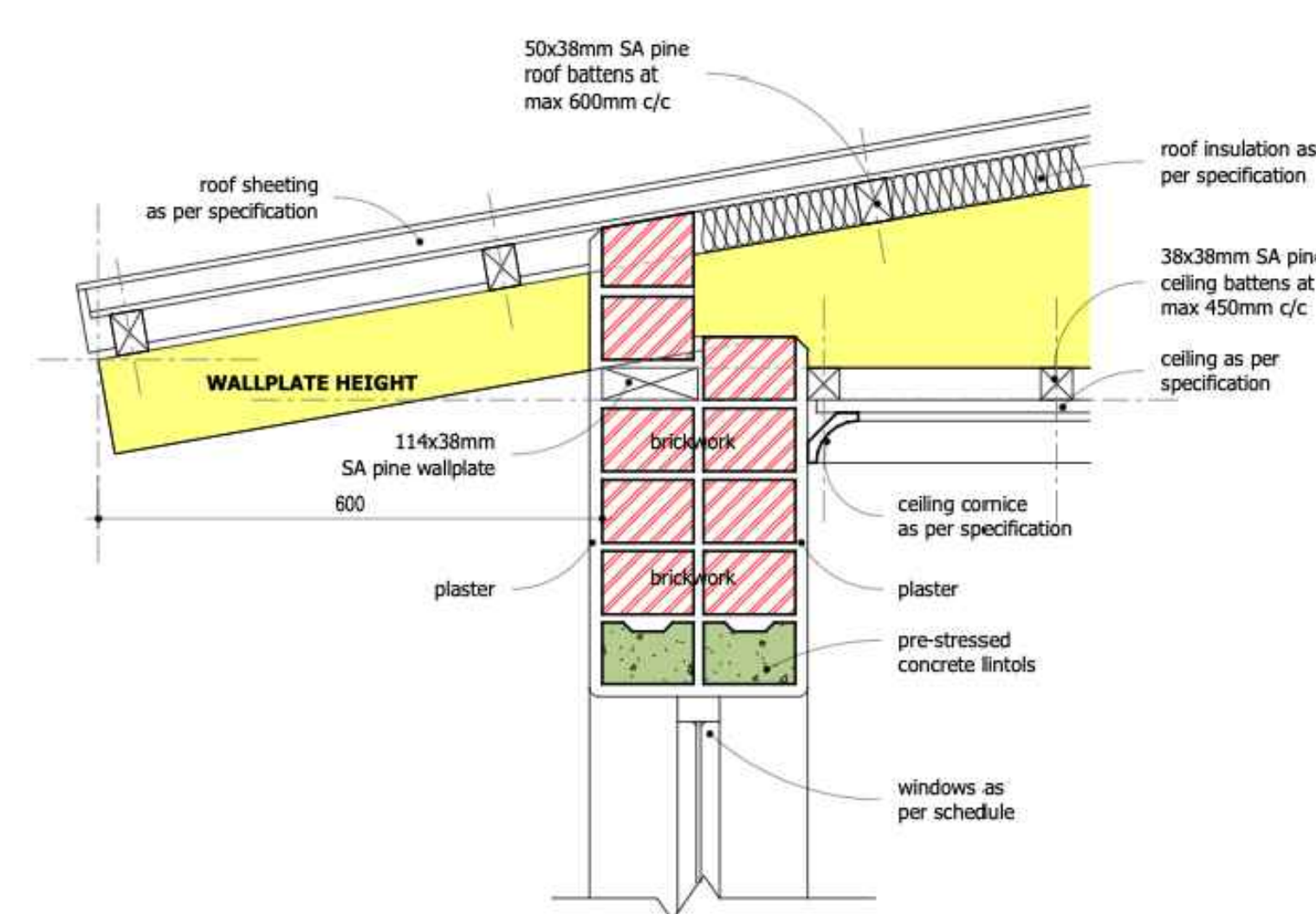
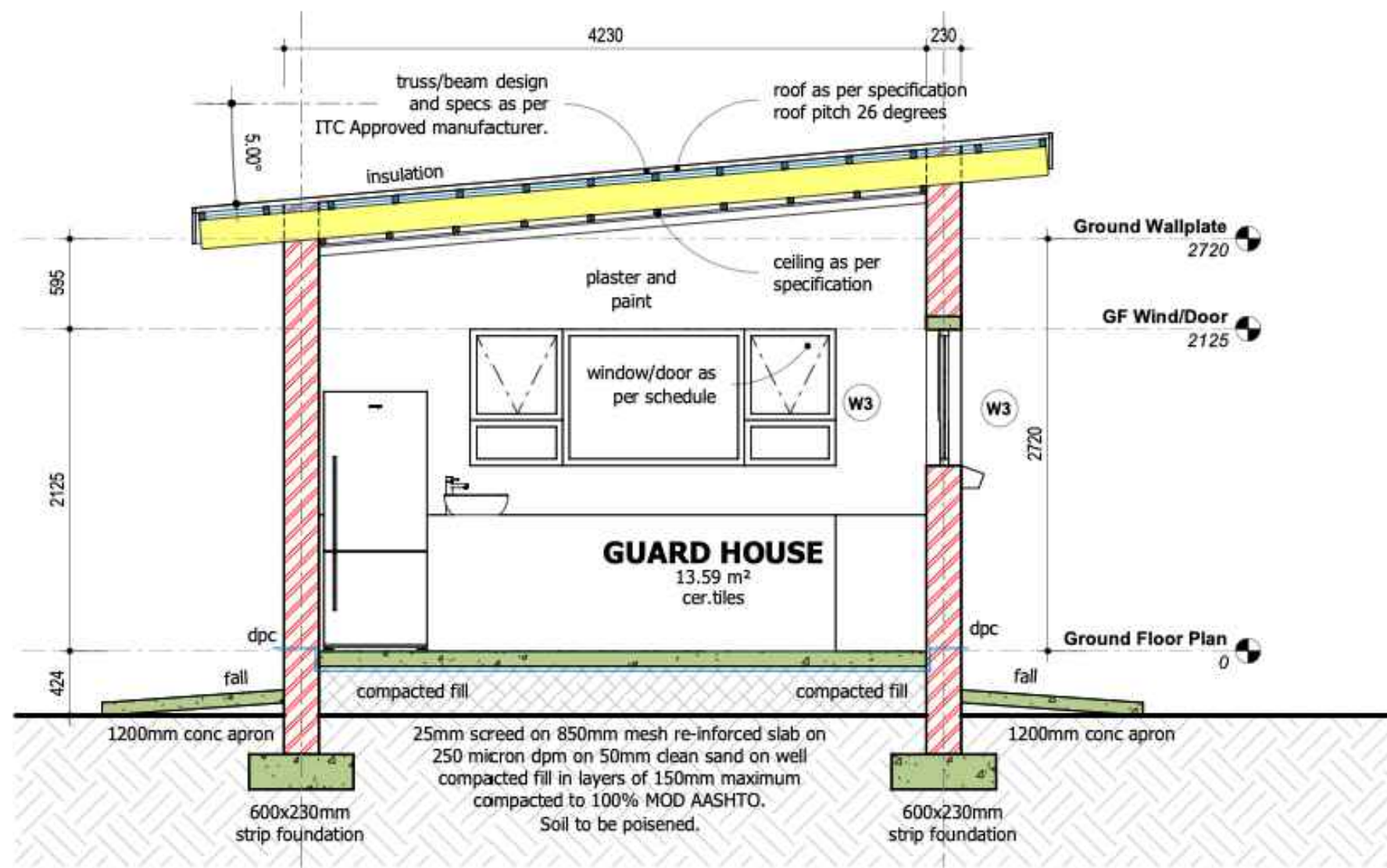
AREA NAME	AREA SIZE m ²
GUARD HOUSE	20 m ²

DOOR SCHEDULE

DOOR No	COUNT	HEIGHT	WIDTH	DESCRIPTION
D1	1	2125	900	
D2	1	2125	900	

WINDOW SCHEDULE

WINDOW No	COUNT	CODE	WINDOW AREA m ²	WIDTH	HEIGHT	LIGHT m ²	VENT m ²
W1	1	6T9	0.54 m ²	0.60 m	0.90 m	0.54 m ²	0.36
W3	2	24DT9	2.16 m ²	2.40 m	0.90 m	2.16 m ²	1.44



GENERAL GLAZING NOTES:

ALL ALUMINIUM WORK ACCORDING TO AAAMSA PERFORMANCE CRITERIA A0 (600Pa) GLAZED WITH STANDARD SAFETY GLASS, COMPLYING WITH SANS 1263 PART 1,2 OR 3 IN ACCORDANCE WITH NBR N SCHEDULE 1 AND SANS 10137:2002, FITTED WITH FRICTION STAYS, GLAZING BEADS WITH WRAP AROUND VINYL AND WOODPILE SEALS PLUGGED AND SCREWED TO BRICKWORK OR CONCRETE ALL IN ACCORDANCE TO AAAMSA.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT THE NUMBER OF WINDOWS & QUANTITIES AS GIVEN ON THE DOOR & WINDOW SCHEDULES CORRELATES WITH THE LATEST PLAN & ELEVATION REVISIONS ALL LAMINATED GLASS TO BE PVB LAMINATED.

POWDER COATING COLOUR FOR ALL ITEMS REFLECTED ON THE SCHEDULE TO BE CONFIRMED WITH ARCHITECT. ALL SIZES TO BE CONFIRMED ON SITE BEFORE ANY MANUFACTURING WORK COMMENCES.

ALL SAFETY GLASS TO HAVE SAFETY INDICATORS NOMINAL GLASS SIZES:

0m2 - 0.75m2 3mm GLASS
1.75m2 - 1.5m2 4mm GLASS
1.5m2 - 2.1m2 5mm GLASS
2.1m2 - 3.2m2 6mm GLASS

ALL GLASS PANES LOWER THAN 500mm FROM THE FLOOR TO BE 6mm SAFETY GLASS

ELECTRIC LEGEND

	DISTRIBUTION BOARD
	CEILING MOUNTED LIGHT FITTING
	DOWNLIGHTER BULKHEAD
	WALL MOUNTED LIGHT FITTING
	GARAGE DOOR CEILING MOUNTED PLUG
	WATERPROOF WALL MOUNTING LIGHT FITTING
	15amp DOUBLE PLUG OUTLET - 300mm ABOVE F.F.L.
	15amp SINGLE PLUG OUTLET - 300mm ABOVE F.F.L.
	15amp SINGLE PLUG OUTLET - 1050mm ABOVE F.F.L.
	15amp DOUBLE PLUG OUTLET - 1050mm ABOVE F.F.L.
	DATA CONNECTION POINT - 300mm ABOVE F.F.L.
	TELEVISION POINT - 300mm ABOVE F.F.L.
	LIGHT SWITCH
	2 - WAY LIGHT SWITCH
	FAN CONTROLLER LIGHT SWITCH
	DOUBLE TUBE FLOURESCENT LIGHT
	STOVE ISOLATOR SWITCH
	3 SPOTLIGHT ON RAIL FITTING
	FANLIGHT CEILING MOUNTED

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PROJECT:

BELA-BELA LOCAL MUNICIPALITY

UPGRADING OF PIENAARSRIJVER SEWER PUMP

STATION (WARD 8)

CONTRACT NUMBER: 9/3/1/340 (29)

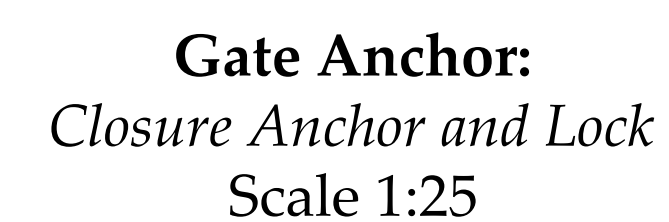
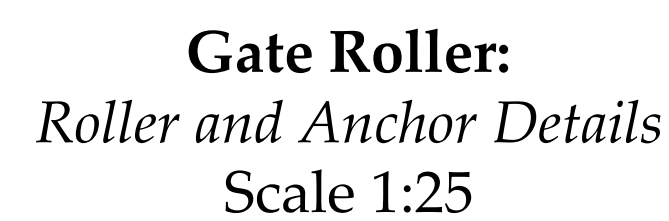
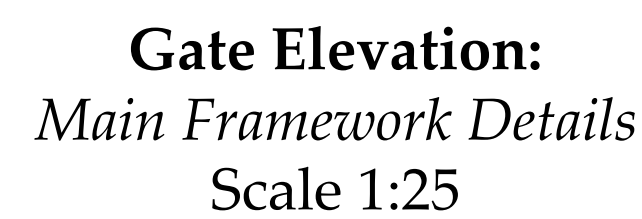
DRAWING TITLE:

GUARD HOUSE PLAN

CONSULTANTS SIGNATURE:

DRAWN: MOKWATLO
CHECKED: BANDA
DESIGNED: MOKWATLO
SCALE: 1:100

DRAWING NUMBER: P00 097D/005
REV No: 00
DWG SIZE: A1



- ### NOTES
1. Refer to all relevant drawings and specifications, do not scale any dimensions.
 2. Where discrepancies occur between the project drawings and specifications, these should be reported immediately to the Principal Agent.
 3. All dimensions and levels to be checked on site, and correlated with the Engineer's drawing before construction commences.
 6. All construction materials, equipment or construction plant supplied to site, shall be installed, applied, employed, or used strictly according to the Supplier's Instructions or the Supplier's Specification, unless otherwise specified or instructed by the Engineer.
 7. Minimum concrete cover is 40mm.

REV	DATE	COMMENTS	BY

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PROJECT:
BELA-BELA LOCAL MUNICIPALITY
UPGRADING OF PIENAARSRIVER SEWER PUMP
STATION (WARD 8)
CONTRACT NUMBER: 9/3/1/340 (29)

DRAWING TITLE:

STEEL PALISADE FENCE DETAILS

CONSULTANTS SIGNATURE:

DRAWN: MOKWATLO	CHECKED: BANDA	DESIGNED: MOKWATLO	SCALE: 1 : 100
DRAWING NUMBER: P00 097D/007		REV No: 00	DWG SIZE: A1

