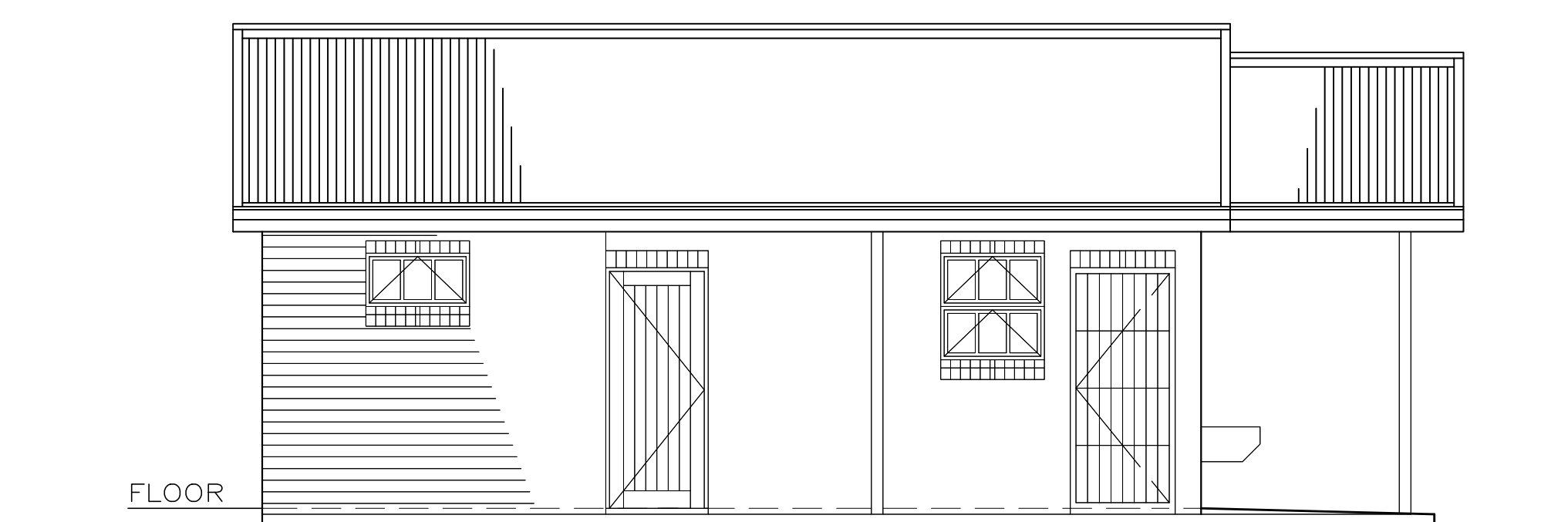
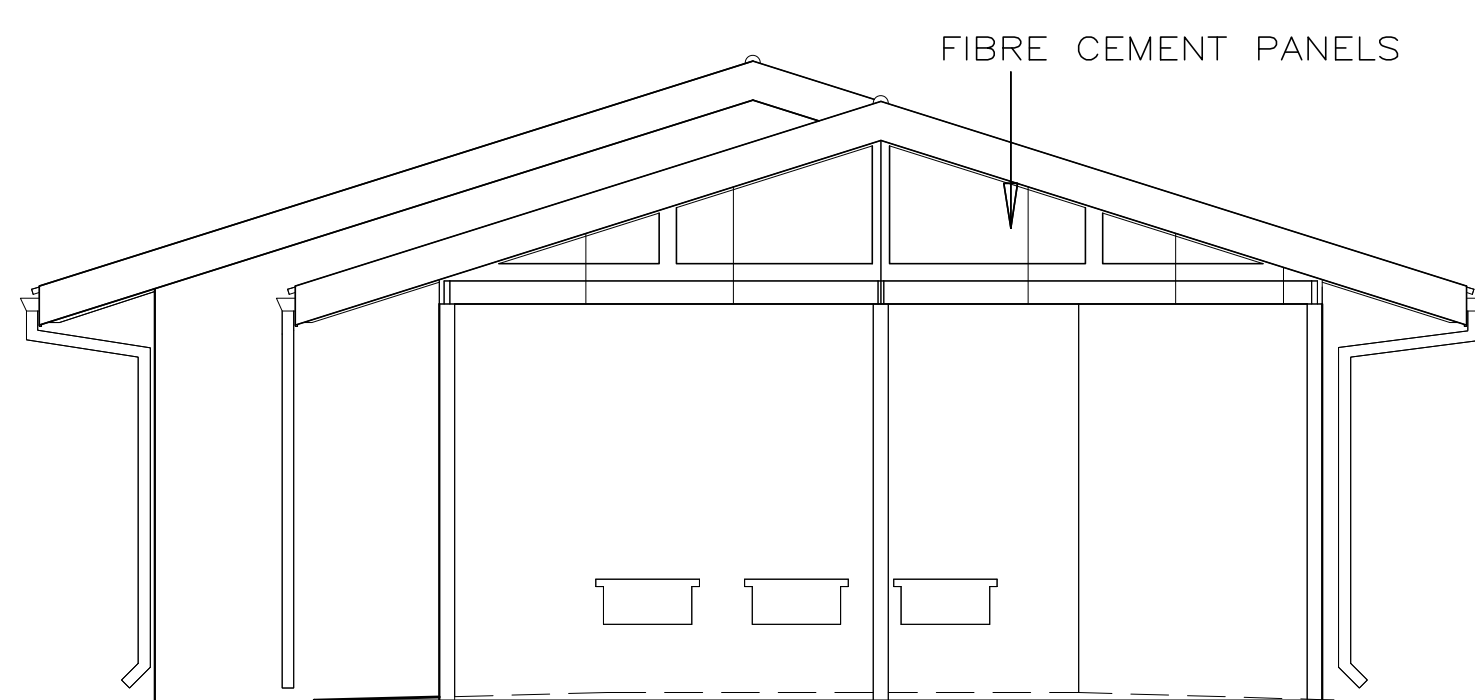
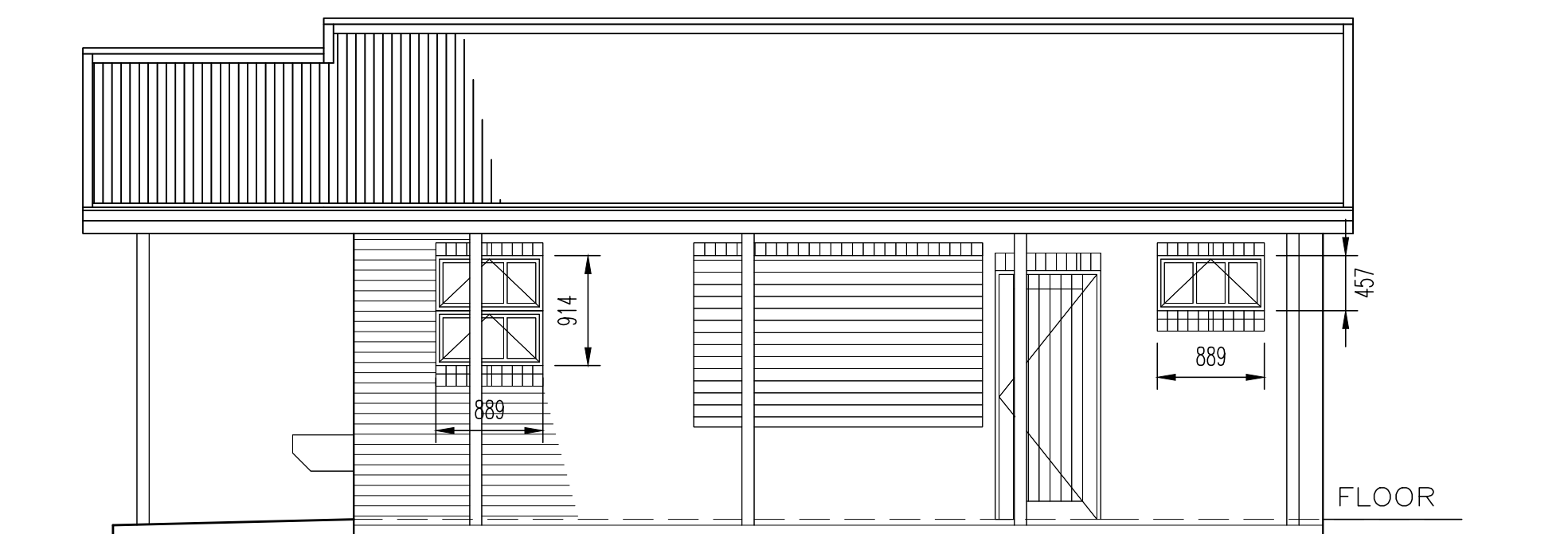
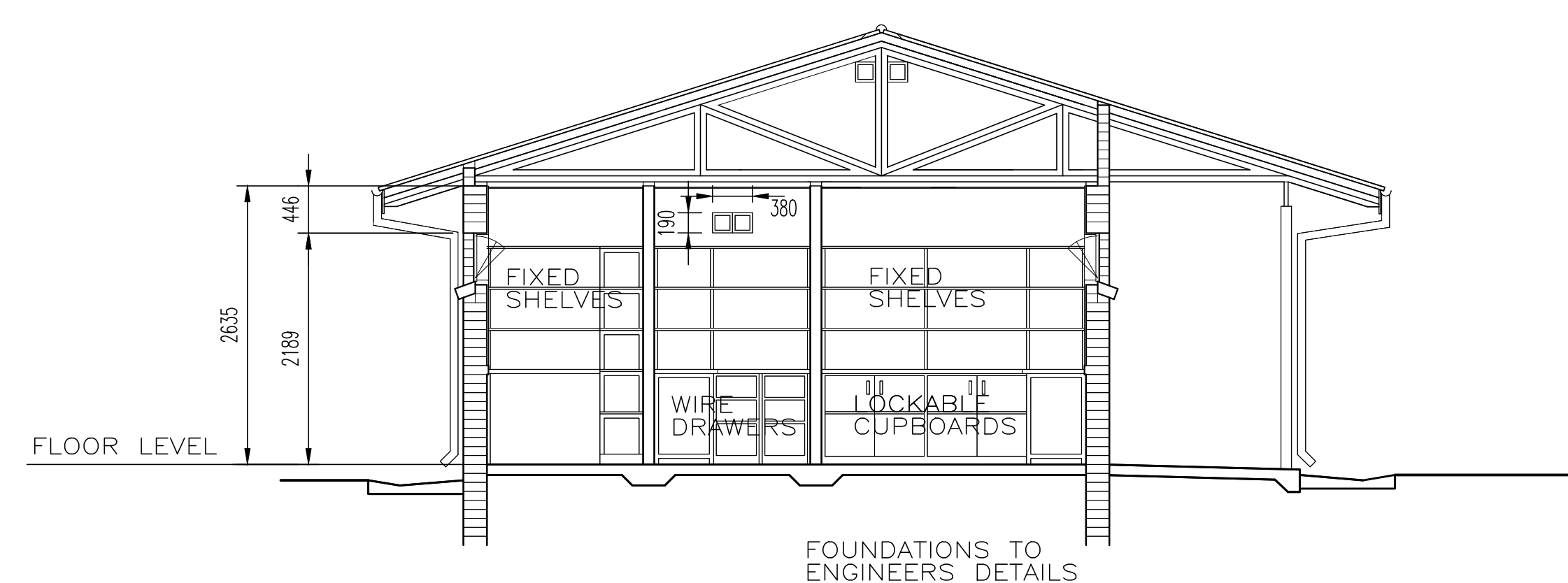
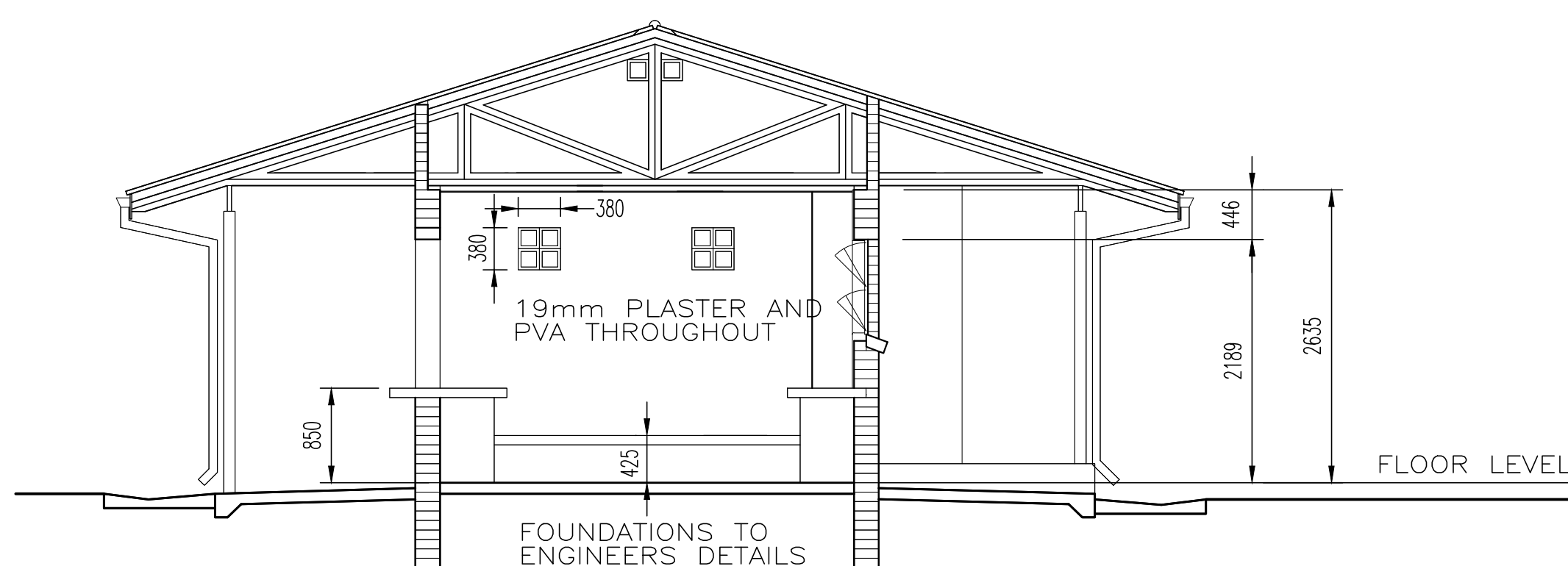
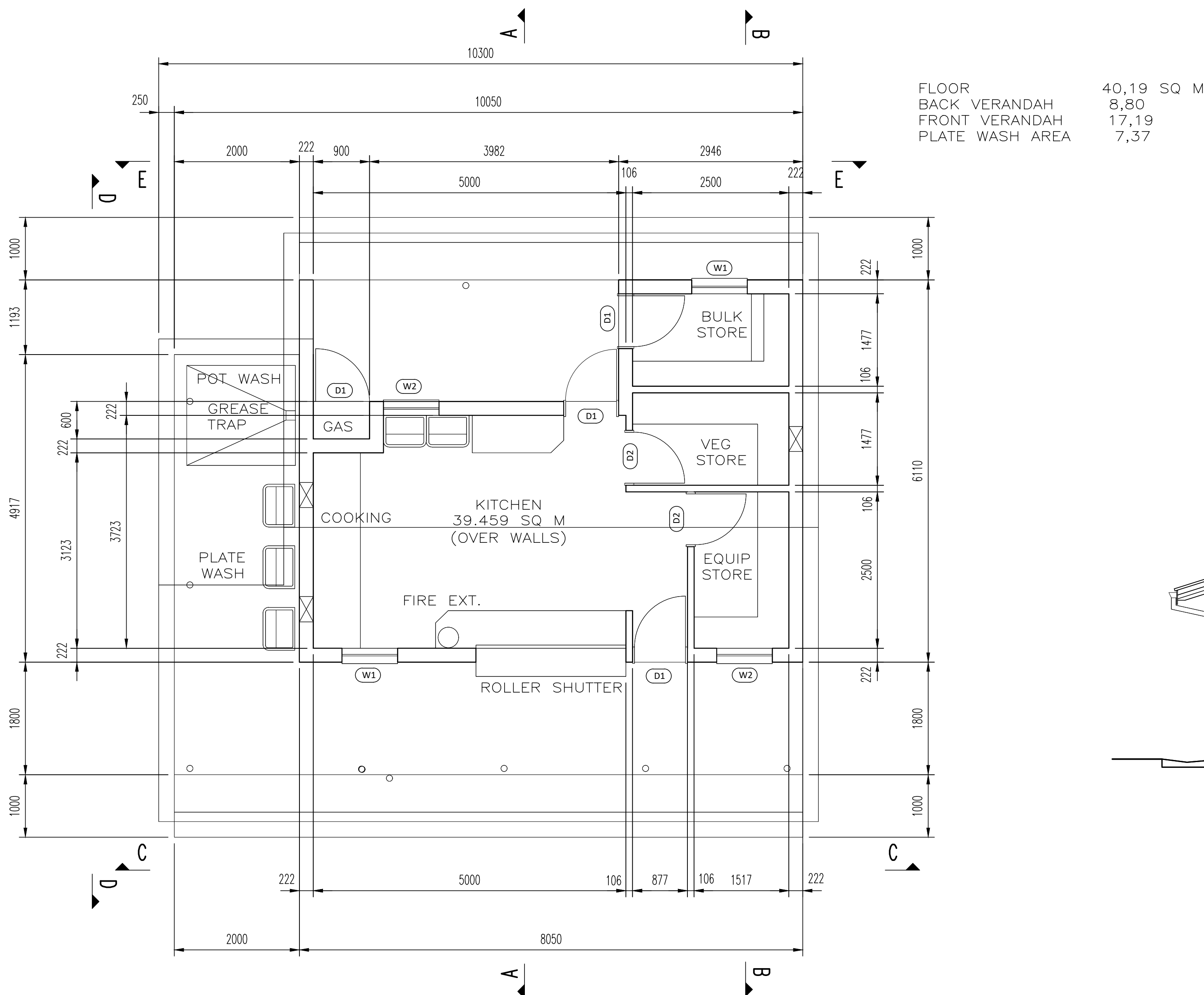


WINDOW SCHEDULE		WINDOW SCHEDULE		DOOR SCHEDULE	
TYPE	4BH OVER 4BH COMPOSITE	TYPE	4BH	NUMBER	D01
NUMBER	W01 NO REQD: 2	NUMBER	W02 NO REQD: 2		NO REQD: 4 – WITH SECURITY GATE
FRAME	STANDARD STEEL SCHOOL REINFORCED TYPICAL HUNG OPEN IN SABS APPROVED	FRAME	STANDARD STEEL SCHOOL REINFORCED TYPICAL HUNG OPEN IN SABS APPROVED		2032 x 813 x 44mm SILIGANA "BLACO" LEDGED AND BRACED BATTENED DOOR WITH 40 x 10mm STILES AND TOP RAIL, 20 x 10mm MIDDLE LEAD, 20 x 22mm BOTTOM LEAD AND 20 x 10mm BRACES
GLASS	4mm CLEAR FLOAT GLASS WITH STEEL WINDOW PUTTY	GLASS	4mm CLEAR FLOAT GLASS WITH STEEL WINDOW PUTTY		PRIMED, UNDERCOAT AND TWO COATS GLOSS ENAMEL
FITTINGS	STANDARD BRASS FITTINGS	FITTINGS	STANDARD BRASS FITTINGS		STANDARD 1.2mm DOUBLE RELATED GALVANIZED PRESSED METAL FRAME FOR 15mm WALL COMPLETE WITH STRAPS FOR BUILDING IN, 24x10mm GALVANIZED AND WELDED LOOSE PIN HINGES, ADJUST. CHROME PLATED STRIKING PLATE
BURGULAR BARS	FACTORY FITTED	BURGULAR BARS	FACTORY FITTED		GALVANIZED NO PAINTING REQUIRED
FINISH	GALVANIZED NO PAINTING REQUIRED	FINISH	GALVANIZED NO PAINTING REQUIRED		STANDARD 1.2mm DOUBLE RELATED GALVANIZED PRESSED METAL FRAME FOR 15mm WALL COMPLETE WITH STRAPS FOR BUILDING IN, 24x10mm GALVANIZED AND WELDED LOOSE PIN HINGES, ADJUST. CHROME PLATED STRIKING PLATE
NOTES	HEAVY STEEL SECTION	NOTES	HEAVY STEEL SECTION	FURNITURE	SOLID ART 390/313 x 4 LEVER MORTICE LOCKSET AND STRIKER CHROME PLATED HANDLES, 36mm DIAMETER DOOR STOP PUSHED AND SCREWED TO FLOOR WITH A 50mm LONG BRASS SCREW
				SECURITY	GALVANIZED SECURITY GATE AS PER DETAILS
					NO REQD: 2 2032 x 813 x 44mm SOLID CORE HARDWOOD PANEL DOOR WITH COMMERCIAL VENEER PRIMED, UNDERCOAT AND TWO COATS GLOSS ENAMEL STANDARD 1.2mm DOUBLE RELATED GALVANIZED PRESSED METAL FRAME FOR 15mm WALL COMPLETE WITH STRAPS FOR BUILDING IN, 24x10mm GALVANIZED AND WELDED LOOSE PIN HINGES, ADJUST. CHROME PLATED STRIKING PLATE GALVANIZED NO PAINTING REQUIRED SOLID ART 390/313 x 4 LEVER MORTICE LOCKSET AND STRIKER CHROME PLATED HANDLES, 36mm DIAMETER DOOR STOP PUSHED AND SCREWED TO FLOOR WITH A 50mm LONG BRASS SCREW NL



GENERAL NOTE:

- The implementing agent will give direction wherever a pit will be opened or an unsealed depending on the outcome of the ground water protocol.
- The contractor will be responsible for excavation the pit, whatever the ground conditions, hitting the water table.
- All blocks to be in x engineering blocks for the whole substructure.
- Section a-a shows the arrangement for an un-sealed pit, for sealed pits the concrete side of the substructure must be solid with no open vertical joints.
- The bottom of the pit will be a 500mm thick concrete base fully sealed.
- Central dividing walls must be constructed with fully mortared bricks.
- The outer wall of the pit must have a minimum thickness of 200mm.
- The wall must be 1 course of bricks above the natural ground level.
- The pit must be designed and approved by the implementing agent.
- The rain water harvesting tank must be equipped with a float valve to be connected to the main water supply within the school yard, where it is available.
- Taps in all wash hand basins must be conservation pvc Pro.
- Water to be connected to reliable water conservation, which must be able to close at minimum 15kpa pressure.
- Vent pipes to secured to the walls outside the substation facilities
- 100mm dia fly screen used as vent and Charlock Vp 200 toilet pedestals to be complete with seat lid. Grade R: Char bambi /tropic (kiddie pan)
- pipes from sinks & urinal outlets to soakaway pit (600mm pvc)
- pipes from gutters to fill tank (75mm pvc)
- pipe form tanks to sinks (15mm polyprop), hitting the tank to be done internally

CONSTRUCTION NOTES

- | | | | | |
|---|-----------------|-------------|-------------|-------------------|
| FOUNDATIONS | | | | |
| 1. Foundation to be 700mm wide x 250 thick, 25 mpa concrete strip footing, 150mm below wall. | | | | |
| 2. They are to sit on firm compacted ground (excavated trenches) with a minimum of 700mm below level and to engineers approval upon inspection. | | | | |
| B. BACKFILL | | | | |
| 1. Fill & imported fill to be approved clean earth, wet watered & rammed in layers not exceeding 150mm in depth and thoroughly consolidated to a density of 95% moist ashito. | | | | |
| C. FLOORS | | | | |
| 1. Refer to Engineers detail and specification. | | | | |
| D. WALLS | | | | |
| 1. All walls are to comply with "Part K" of the National Building Regulations. | | | | |
| 2. COROBRIK® COMMONS to be used where to receive plaster, COROBRIK® ENGINEERING Bricks to be used below ground level in foundation walls. | | | | |
| 3. Brickwork to be every 3rd course up to window head height throughout all courses from window head to underside of wallplate. Galvanised crimp wire wall ties (7 square metre / laid staggered). | | | | |
| 4. External face of inner skin to be painted bitumen paint. 375 micron embossed draft-proof membrane stepped below all window cills. | | | | |
| 5. Where plaster is required internally (13 - 16mm thick) ratio must be 1:5 cement sand mix. Beam filling to under of roofing sheets. | | | | |
| 6. Control joints to be provided in accordance with engineers specifications & must be sealed with 12mm deep polysulphide sealed with backing strip and impregnated softboard. | | | | |
| 7. All internal brickwork to have brickwork at every third course of brickwork. | | | | |
| 8. All bunding and / or retaining wall to Structural Engineers specifications. | | | | |
| E. ROOF | | | | |
| 1. All Falcenbrack on edge lints strictly to eng. detail. | | | | |
| F. ROOF | | | | |
| 1. Install 0.5mm thick A2150/Nickel/Veldeck profile roof sheeting, fixed to intermediate steel purlins at 1600mm centres and to ridge and eaves purlins at 1350mm centres, 150mm long class3 metal self drilling screws at every second crest at intermediate purlins and every crest at eaves purlins in all accordance with the manufacturer's recommendations. | | | | |
| 2. The sheeting shall be Veldeck® trapezoidal type profile as manufactured by Sefintra Roofing. | | | | |
| 3. The profile shall be roll-formed with 5 trapezoidal ribs at 191mm centres with a nett area of 7600mm. | | | | |
| 4. The rib height shall be 25mm and shall be fixed in accordance with the manufacturer's recommendations. | | | | |
| 5. Veldeck sheeting the recommended minimum pitch for slopes of 1:15 is 10° and for slopes less than 15m is 7.5°. | | | | |
| 6. Veldeck sheeting can be ordered in any length, subject to transport limitations up to 13.2m. Longer lengths require special transport arrangements. | | | | |
| 7. Purlin spacings are dependent on both downward loading and negative suction loading caused by the wind. The engineer should be consulted to calculate the load (kN/m²) for particular application. | | | | |
| CONCRETE MIX RATIOS | | | | |
| STRENGTH | UNIT/CM | UNIT | SAND | UNIT STONE |
| 10MPa | 2 | 3 | 5 | 3.5 |
| 15MPa | 2 | 3 | 3 | 3 |
| 25MPa | 2 | 2 | 2.5 | 2.5 |
| 30MPa | 2 | 2 | 2 | 2 |
| DATE | REVISION | | | DRAWN |
| 10/07/13 | FOR APPROVAL | | | S.Z |
| 11/02/14 | FOR APPROVAL | | | S.Z |
| 28/02/14 | FOR APPROVAL | | | S.Z |

CONCRETE MIX RATIO'S			
STRENGTH	UNIT.CEM	UNIT SAND	UNIT STONE
10MPa	2	3.5	3.5
15MPa	2	3	3
25MPa	2	2.5	2.5
30MPa	2	2	2

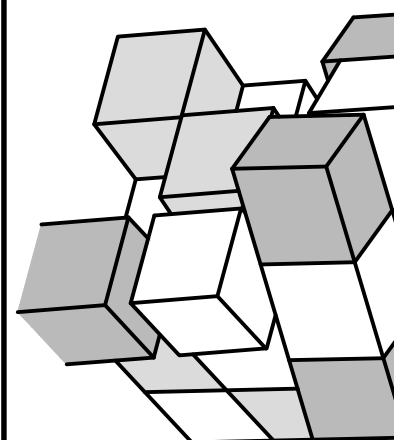
	DATE	REVISION	DRAWN
	10/07/13	FOR APPROVAL	S.Z
	11/02/14	FOR APPROVAL	S.Z
	28/02/14	FOR APPROVAL	S.Z

CLIENT
DEPARTMENT
of
EDUCATION
PROVINCE OF KWAZULU-NATAL

TECHNICAL CONSULTANT

GANT

PROJECT MANAGEMENT (PTY) Ltd.
CONSULTING ENGINEERING
BUILT ENVIRONMENT PROFESSIONALS



JHB OFFICE :
P.O. BOX 568
PRIVATE BAG X1
JUKSKEI PARK
2153
(011) 792 2359

E-mail :
pieter@gant.co.za

	NAME	SIGNATURE	DATE	SHEET SIZE
DESIGNED	MJ MILLS		20/10/13	A0
DRAWN	AM DE VILLERS		15/09/22	SCALE
VERIFIED				1:50
VALIDATED				STATUS: FORM D

IMPLEMENTING AGENT



DEVELOPMENT BANK OF
SOUTH AFRICA
1258 LEVER ROAD
HEADWAY HILL
MIDRAND
1685
TEL: 011 313 3029
E-MAIL: vusik3@dbsa.org

PROJECT:
DBSA KWAZULU NATAL SCHOOLS
SCHOOL IMPROVEMENT PROJECT

TITLE: HLUTHANKUNGU PRIMARY SCHOOL EMIS NO: 500157916
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DESCRIPTION:	
KITCHEN	
1.000000	1.000000