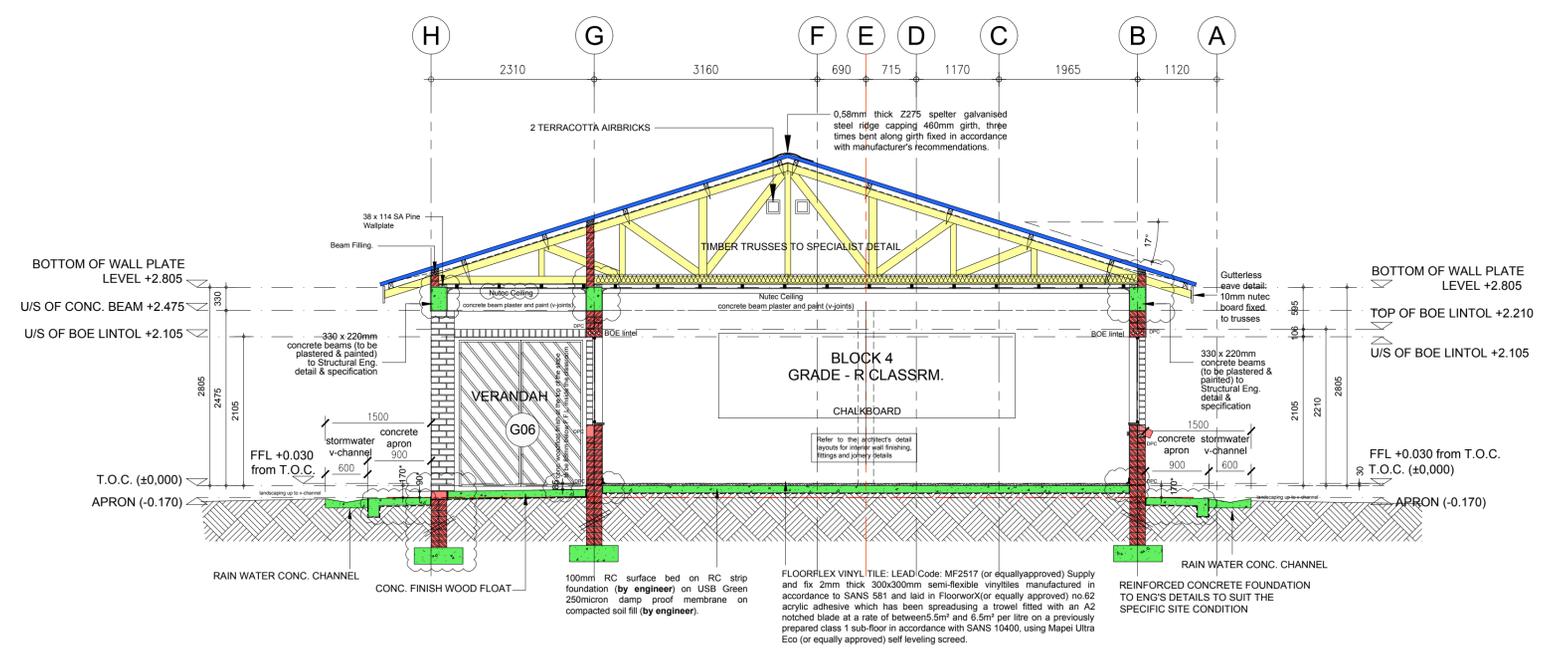


**METAL ROOF SHEETING INSULATION NOTE:**  
 New Pitched Roof +10° pitch (non-ventilated) with horizontal ceiling below trusses and -rafter roof sheathing.  
 150mm Thick Isotherm non-combustible lightweight thermal insulation (the performance classification B B 3), closely fitted with ends lapped firmly between purlins and laid loose on top of ceiling, all in accordance with manufacturer's recommendations. R-Value 3.14.  
 Outdoor air film (7 m/s) R-value 0.3. Indoor air film (0.16 m/s) R-value 0.11.  
 Metal Roof Sheeting for outer protection (40mm thickness) R-Value 0.17.  
 Roof air space (non-reflective) (150-300mm thickness) R-value 0.15.  
 15mm Thick Gypsum plasterboard R-value 0.1.  
 Indoor air film (0.16 m/s) R-value 0.11.  
 Insulate to R-value of 3.78 in upward direction.  
 Minimum R-value required 3.2 in upward direction.  
 COMPLY WITH SANS 264 IN CLIMATIC ZONE 2.

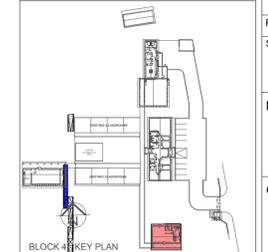
**ROOF PLAN**  
 Scale 1:100



0.58mm thick Z275 spelter galvanised steel ridge capping 400mm girth, three times bent using girth fixed in accordance with manufacturer's recommendations.  
 IFR-profile 0.58mm thick Z275 spelter galvanised steel roof sheeting @ 17°, fixed to 50x75mm SAP timber purlins @ 1200mm c/c in accordance with manufacturer's recommendations, on pre-fabricated SAP timber trusses (by specialist) @ 1000mm c/c, anchored on 114x20mm SAP timber walplate with 30x15mm galvanised steel straps embedded 600mm into brickwork.  
 150mm Thick Isotherm non-combustible lightweight thermal insulation (the performance classification B B 3), closely fitted with ends lapped firmly between purlins and laid loose on top of ceiling, all in accordance with manufacturer's recommendations. R-Value 3.14.  
 All new exterior exposed roof trusses to be painted and primed with one coat Creosote (or equally approved) with an overcoating line of 18 hours and finished with one coat Creosote (or equally approved).  
**Ceramic Spec:**  
 Upper Edge Cove Polystyrene Cornice (2000 x 60 x 60mm) fixed to wall and ceiling. To be painted white. Refer to General Specification for Paint Specification.  
 Everite Nutec: 6mm thick plain ceiling boards, manufactured in accordance with SANS 8901:2000 carrying SANS 903:2005 mark, fixed to 38x50mm SAP timber bracing at 600mm c/c using 32x2.5mm serrated ceiling nails at 150mm c/c, minimum of 12mm from edge of board. All joints to be covered using H-profile steel jointing strips, all in accordance with the manufacturer's recommendations with 13mm Masonite covered hardboard cornice nailed to battens at max. 300mm c/c all round.  
 Refer to General Specification document for paint specification.  
 STANDARD ALUMINIUM POWDER COATED WINDOWS REFER TO WINDOW SCHEDULE.  
 Everite medium density plain ungrooved Nutec fascia boards (Code: D41-202), size 225x12mm, fixed to 75x50mm SAP timber batten and 38x50mm SAP timber support battens between rafters twice screwed with 12x40mm countersunk brass screws at 900mm c/c to support battens with aluminium H-profile fascia jointer between boards and aluminium H-profile fascia corner joints at board ends.  
 Refer to General Specification document for paint specification.  
**COROBRIK 20-30MPa Fyrbos Geel - Satin FBS clay face brick,** size 222 x 110 x 73mm, bedded and jointed in Class II in stretcher bond with all joints and perpend firm deep recessed.

**Section A-A**  
 Scale 1 : 50

Block 4 : GRADE-R



**GENERAL NOTES**  
 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S AND ENGINEER'S DRAWING.  
 ALL DIMENSIONS, LEVELS, ETC. ARE TO BE CHECKED BEFORE ANY WORK IS COMMENCED AND ANY DISCREPANCIES NOTED TO BE BROUGHT TO THE ARCHITECT'S ATTENTION.  
 ONLY FIGURED DIMENSIONS TO BE USED. SCALING OF DRAWINGS IS NOT ADVISABLE.  
 ALL RIGHTS RESERVED. NO PARTS OF THIS DESIGN SHALL BE REPRODUCED, USED ELSEWHERE AND/OR IN ANY WAY WITHOUT PRIOR PERMISSION FROM THE ARCHITECT/ENGINEER.

**GEOTECH INFORMATION**

SOIL TYPE: \_\_\_\_\_

ASSUMED SOIL BEARING CAPACITY: \_\_\_\_\_ kPa

RECOMMENDED FOUNDATION TYPE: \_\_\_\_\_

RECOMMENDED FOUNDATION DEPTH: \_\_\_\_\_

REV No.	DATE	DESCRIPTION

**MUNICIPAL APPROVAL**

NAME: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**STAMPS:**

**CLIENT APPROVALS**

**North West Department of Education:**  
 NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**DBSA Architect:**  
 NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**DBSA OH&S:**  
 NAME: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**PRINCIPAL AGENT**

**KITSO BOTHLALE**  
 CONSULTING ENGINEERS (Pty) Ltd.  
 Tel +27(0)12 663 1357 - Cell +27(0) 82 909 8497 - Fax +27(0)12 663 3351  
 E-mail: kbot@kitso.co.za Website: www.kitso.co.za  
 Unit 2 International Business Gateway, 18 Midridge Park, C/o Pioneer Avenue & Elizabeth Road, Extension 6 Midridge Park, Midrand, 1682

COMPETENT CONTACT PERSON: Bruce Mutarwa FIRM REG No: T.B.C.

**education**  
 Lefapha la Thuto  
 Onderwys Departement  
 Department of Education  
 NORTH WEST PROVINCE

**DEPARTMENT OF BASIC EDUCATION**  
 222 STRUBEN STREET  
 PRETORIA

DISCIPLINE: **ARCHITECTURAL**

PROJECT NAME: **Tshedimoso Primary School**  
 PORTION 1 OF THE FARM MOOPAN No. 104 - IO  
 MEASURING - 33 479 m<sup>2</sup>

PROJECT STATUS

STAGE 1-3	STAGE 4	STAGE 5-6
CONCEPT	X TENDER	CONSTRUCTION

DESCRIPTION: **SINGLE GRADE - R (BLOCK 4)**  
 SCALE: AS SHOWN

DRAWN: M.L. van der Walt  
 NAME OF COMPETENT PERSON: A.A. Steyn  
 REG No: Pr.Arch. 7292 REG No: Pr.Arch. 20832  
 SIGNATURE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

PROJECT NUMBER: **S-TSH-001-30** DATE: 01-11-2021  
 OCCUPANCY CLASSIFICATION: **A3** DWG No: 104/2  
 REV No: 03