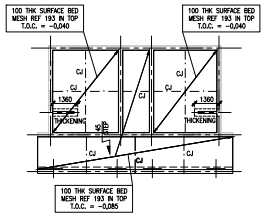
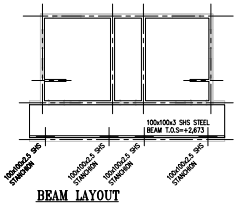
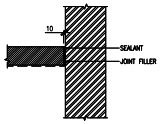
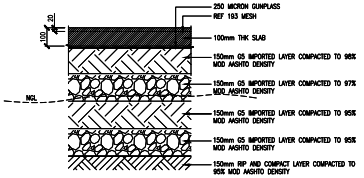




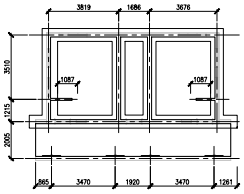
BEAM LAYOUT
SCALE 1:100



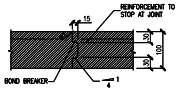
ISOLATION JOINT
SCALE 1:10



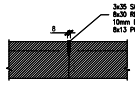
TYP. SLAB LAYERWORKS
SCALE 1:10



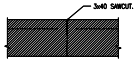
FOUNDATION LAYOUT
SCALE 1:100



CONSTRUCTION JOINT
SCALE 1:5



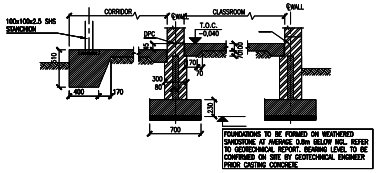
EXPOSED SLAB
SCALE 1:5



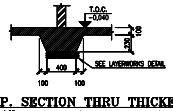
SCREEDED SLAB
SCALE 1:5

CONTRACTION JOINT

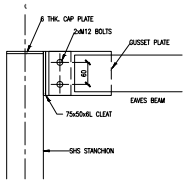
"C/J" INDICATES CONSTRUCTION OR CONTRACTION JOINT TO SUIT CASTING SEQUENCE.



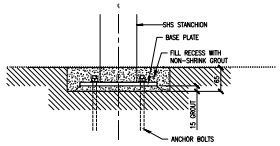
TYP. SECTION THRU CORRIDOR WITH CHS STANCHION
SCALE 1:25



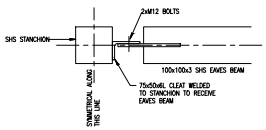
TYP. SECTION THRU THICKENING (TO 110mm WALL)
SCALE 1:25



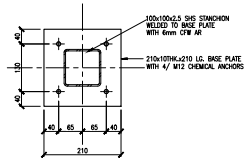
ELEVATION–EAVES BEAM TO STANCHION DETAIL
SCALE 1:5



ELEVATION–STEEL STANCHION BASE PLATE
SCALE 1:5

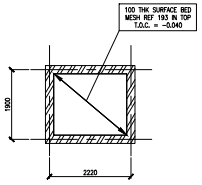


PLAN–EAVES BEAM TO STANCHION DETAIL
SCALE 1:5

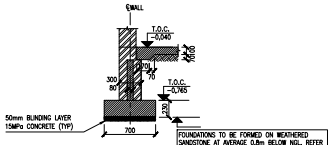


PLAN–STEEL STANCHION BASE PLATE
SCALE 1:5

NOTE:
1. GEOTECHNICAL ENGINEER TO CONDUCT ADDITIONAL COLLAPSE POTENTIAL TESTS DURING CONSTRUCTION PHASE ON EXPOSED FOUNDATIONS. THEREFORE, CONTRACTOR MUST CONTACT GEOTECHNICAL ENGINEER TO INDICATE DESIRABLE AREAS INTENDED TO CONDUCT TESTS.
2. RIP AND COMPACT 150mm IN-SITU COMPACTED TO 95% MOD AASHTO DENSITY AT –1% TO +2% OF OPTIMUM MOISTURE CONTENT, TO UNDERSIDE OF ALL FOOTINGS PRIOR CASTING BLINDING LAYER. CONTRACTOR TO CONDUCT AT LEAST 4 (FOUR) TEST PER BLOCK PRIOR PROCEEDING WITH FOOTINGS.



SURFACE BED LAYOUT–GUARDHOUSE
SCALE 1:50



TYP. SECTION–GAURDHOUSE
SCALE 1:25

NOTES: GENERAL

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL ARCHITECT'S, ENGINEERS AND SPECIALIST'S DRAWINGS WITH THE RELEVANT SPECIFICATIONS.

   DESIGN MATERIALS USED AND METHOD OF CONSTRUCTION TO BE IN ACCORDANCE WITH SANS 0100, 0137, 0160 – 0164, AS APPLICABLE.

   THIS DRAWING NOT TO BE SCALED.

2. REINFORCED CONCRETE

   THE APPLICABLE STANDARD SPECIFICATION IS SANS 1200 G – 1982.

   CONCRETE COVER TO REINFORCEMENT AND CONCRETE STRENGTH TO BE AS INDICATED BELOW. COVER IS GIVEN TO THE NEAREST FACE. MINIMUM BAR COVER TO BE MAXIMUM OF BAR DIAMETER AND AS SHOWN BELOW. SPECIFIED COVER TO BE MAINTAINED USING CEMENT MORTAR COVER BLOCKS OR APPROVED PLASTIC SPACERS

ELEMENT	CONCRETE STRENGTH AT 28 DAYS (MPa)	COVER mm
FOUNDATIONS	25	40
COLUMNS	–	–
BEAMS	25	25
SLABS	25	25
WALLS	25	30

3. ALL AGGREGATE TO BE 19mm UNLESS OTHERWISE SPECIFIED.
4. CONCRETE DESIGN MIXES TO BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.
5. CUBE TESTS TO BE CARRIED OUT ON SITE AND LOGGED WITH POSITION AND DATE BY INDEPENDENT LABORATORY. CUBES TO BE TAKEN FOR EACH TYPE OF ELEMENT, AT LEAST ONE DAILY AND AT LEAST ONE EVERY 50m³.
6. REINFORCEMENT TO BE IN ACCORDANCE WITH SANS 920 AND SHALL BE BENT IN ACCORDANCE WITH SANS 82.
7. ALL CAST IN ITEMS SHALL BE FREE OF OIL, GREASE, DIRT OR ANY OTHER MATERIAL WHICH MAY IMPAIR THE BOND WITH THE CONCRETE. CONTRACTOR TO REFER TO ARCHITECT/SPECIALIST DRAWINGS FOR DETAILS/POSITIONS OF OPENINGS, SLEEVES, CONDUITING, ETC. FOR STORMWATER, SEWERAGE AND OTHER SERVICES.
8. FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE GROUND BEARING CAPACITY OF 150 kPa.
9. ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETING.
10. REMOVAL OF FORMWORK TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR BACK–PROPPING ON MULTI–STOREY SLAB CONSTRUCTION
11. SURFACE BEDS:
    ATTENTION IS DRAWN TO THE USE OF LAPPED, TAPED SLIP–MEMBRANE AND THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ADEQUATE CURING OF THE TOP SURFACE. MESH TO BE LAPPED 400mm. CONTRACTOR TO ENSURE CORRECT TIMING OF SAW CUTS TO AVOID RANDOM CRACKING AND RAVELLING OF JOINT EDGES.

STRUCTURAL STEELWORK

1. THE APPLICABLE STANDARD SPECIFICATION IS SANS 1200H – 1983, FOR STRUCTURAL STEELWORK.
2. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEELWORK TO BE : GRADE 350W
3. UNLESS OTHERWISE NOTED, ALL WELDS TO BE: 6mm FILLET WELDS.
4. UNLESS OTHERWISE NOTED, ALL BOLTS TO BE: GRADE 8.8
5. THE CONTRACTOR IS TO SUBMIT TWO PRINTS OF ALL SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION.
6. ALL DIMENSIONS & LEVELS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF FABRICATION.
7. THE CONTRACTOR IS TO ENSURE THAT ALL CONNECTIONS EXCEED THE LOAD CAPACITY OF THE MEMBERS CONNECTED.

TIMBER

1. DESIGN MATERIALS USED AND METHOD OF CONSTRUCTION TO BE IN ACCORDANCE WITH: SABS 653, 876, 1089, 1245.
2. UNLESS OTHERWISE NOTED, TIMBER TO BE MINIMUM GRADE 6.
3. THE CONTRACTOR IS TO SUBMIT PRINT OF ALL SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR FABRICATION.
4. ALL DIMENSIONS & LEVELS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF FABRICATION.

DATUM ±0,000 IS FFL = +1356,136

MASONRY

1. DESIGN MATERIALS USED AND METHOD OF CONSTRUCTION TO BE IN ACCORDANCE WITH: SANS 10164, 10400 K.
2. UNLESS OTHERWISE NOTED, COMPRESSION STRENGTH TO BE MINIMUM 7 MPa.
3. MORTAR TO BE CLASS II
4. BRICKFORCE AT EACH FOURTH COURSE AND EACH COURSE ABOVE OPENINGS, UNLESS OTHERWISE SHOWN.
5. TIMBER TRUSS TIE DOWN STRAPS 30x1.2 THICK TO BE BUILT INTO WALL MINIMUM 5 COURSES WITH 50mm EMBEDMENT.
6. ALL PROPPED OPENING TO BE ALLOWED TO CURE FOR MINIMUM 14 DAYS PRIOR REMOVING PROPS.

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 PART OF THIS DESIGN SHALL BE REPRODUCED, USED ELSEWHERE AND/ OR IN ANY WAY WITHOUT PRIOR PERMISSION FROM THE ARCHITECT/ ENGINEER.

GEOTECH INFORMATION

SOIL TYPE: C1 and Unified Soil Class (SC-SM)
ASSUMED SOIL BEARING CAPACITY: < 150 kPa kPa
RECOMMENDED FOUNDATION TYPE: Reinforced Strip Foot Foundation
RECOMMENDED FOUNDATION DEPTH: 0.6-1m

REV. NO.	DATE	DESCRIPTION
A	2021-01-19	ISSUED FOR TENDER PURPOSES
B	2021-02-26	ISSUED FOR TENDER PURPOSES
C	2021-03-16	ISSUED FOR TENDER PURPOSES
D	2021-03-19	ISSUED FOR TENDER PURPOSES
E	2021-04-19	ISSUED FOR TENDER PURPOSES
F	2021-04-30	ISSUED FOR TENDER PURPOSES

MUNICIPAL APPROVAL

NAME:.....
SIGNATURE:.....DATE:.....

STAMPS:

PRINCIPAL AGENT

Mamadi & Company (SA)
No.1 Newtown Avenue, Killarney, Johannesburg , 2198
Tel: 011 - 532 8659
Email:info@mamadi.co.za

COMPETENT CONTACT PERSON: CONT. No: +2711 532 8659
FULL NAME FIRM REG No: 2016/012437/07

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Noordwes Departement van Onderwys
North West Department of Education
NORTH WEST PROVINCE

DBSA

ARCHITECT:.....
SIGNATURE:.....DATE:.....

OHS:.....
SIGNATURE:.....DATE:.....

NORTH WEST DEPARTMENT OF EDUCATION

NAME:.....
SIGNATURE:.....DATE:.....

NAME:.....
SIGNATURE:.....DATE:.....

NAME:.....
SIGNATURE:.....DATE:.....

DISCIPLINE
CIVIL/STRUCTURAL

PROJECT NAME
SEDIKO PRIMARY SCHOOL
EMIS NUMBER: 600101902

PROJECT STATUS

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

DESCRIPTION: NEW ABLUTION & GUARDHOUSE FOUNDATION, SURFACE BED AND STEEL BEAM LAYOUT AND DETAILS
SCALE: AS SHOWN

DRAWN: NAME OF COMPETENT PERSON: MOTHOANA MASOOA
CHECKED: NAME OF COMPETENT PERSON: THABISO MOTSHEGOA

REG No: ECSA PR. 2020/00498 SIGNATURE
REG No: ECSA PR. 201370184 SIGNATURE

PROJECT NUMBER: RFP 263/2019
DATE: 2021-01-15
DWG No: DBSA-JBT-S1-ENG-STR-DWG-004
REV No: F

OCCUPANCY CLASSIFICATION

SANS 10400 & XA COMPLIANCE	Rational Des.		Standard Cal.	
CONDUTANCE	Y	N	Y	N
SOLAR HEAT GAIN	Y	N	Y	N
GEOGRAPHICAL ZONE				

NBRs COMPLIANCE	Yes	No
SITE PLAN		
OTHER DRAWINGS		

OTHER APPROVALS	Mark with X		
	Yes	No	N/A
Enviromental Impact Assesment (EIA)			
South African Heritage Resources Agency (SAHRA)			
Department of Water and Sanitation (DWS)			
South African National Roads Agency (SANRAL)			
Other			

WATER SUPPLIER	Yes	No	
MUNICIPALITY			MUNICIPALITY NAME
BOREHOLE			WATER USE LISENCE: Not Available
PRESSURE			TBC BARS
TANKS	Number	Capacity	1 2000 LITERS
OTHER STORE	Yes	No	Specify below

SANITATION/ SEWER	Yes	No	
MUNICIPALITY			MUNICIPALITY NAME: Mathosana
SEPTIC TANKS			CAPACITY:
PIT LATRINES			KL
OTHER			SPECIFY:

SITE INFORMATION	
ERF No.	15756
COVERAGE	10.9 % (3795 m²)
VILLAGE NAME	Jouberton Ext. 15
DISTRICT	Dr Kenneth Kaunda
COORDINATES	26°54'12.4"S 26°35'46.5"E

STAGES		
SIPDM	SACAP	Mark with X
0		
1		
2		
3	1	
4	2	X
5	3	
6	4	
7	5	
8		
9	6	

PROJECT TEAM	COMPETENT CONTACT PERSON	CONTACT No.	REGISTRATION No.	COMPANY NAME
ARCHITECT	DANNY KALOMBO	+27 79 875 8873	PrArch 2474053/8	MAMADI & COMPANY
Q. SURVEYOR	HENK DOKTER	+27 82 807 9005	570 - SCQS	MAMADI & COMPANY
STRUCT. ENG	THABISO MOTSHEGOA	+27 73 757 8094	201370184 - ECSA	MAMADI & COMPANY
CIVIL ENG	GIVEN MBHOKOTA	+27 83 580 1709	201470013 - ECSA	MAMADI & COMPANY
MECH. ENG	PULE SHEANE	+27 72 172 8396	201570022 - ECSA	MAMADI & COMPANY
ELECT. ENG	JOHN MOKOENA	+27 63 005 5891	20030038 - ECSA	MAMADI & COMPANY
OHS	NATHANIEL MATHAGA	+27 72 947 7939	OHS 14000005	MAMADI & COMPANY
CONTRACTOR				