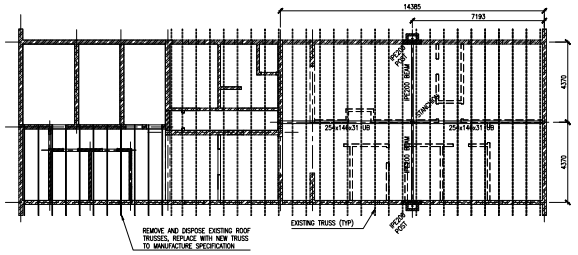
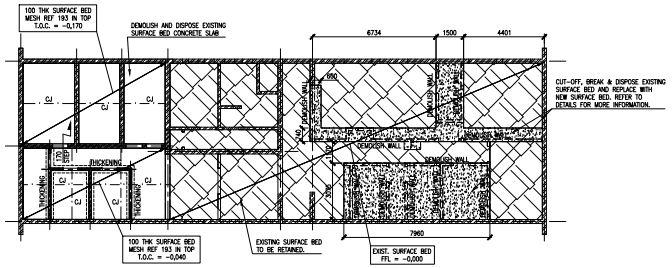
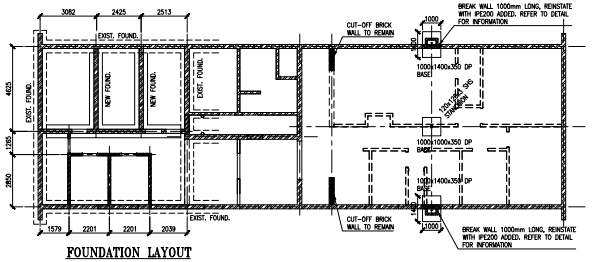


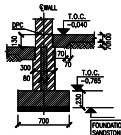

ROOF LAYOUT




SURFACE BED LAYOUT

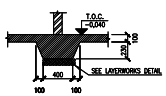



FOUNDATION LAYOUT



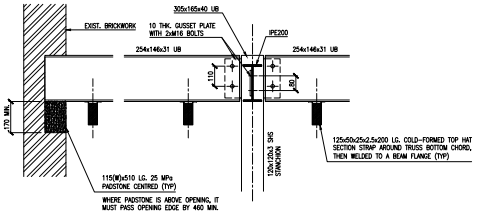

FOUNDATIONS TO BE FORMED ON WEATHERED SANDSTONE AT AVERAGE 0,8m BELOW NGL. REFER TO GEOTECHNICAL REPORT. BEARING LEVEL TO BE CONFIRMED ON SITE BY GEOTECHNICAL ENGINEER PRIOR CASTING CONCRETE

SECTION THRU STEP
SCALE 1:25 (TO 220mm WALL)

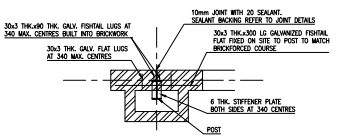



TYP. SECTION THRU THICKENING
SCALE 1:25 (TO 110mm WALL)

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 93% 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.

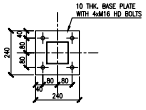



ELEVATION
SCALE 1:10

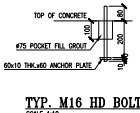



ALTERATION TO EXISTING WALL DETAIL
SCALE 1:20

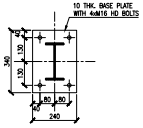
NOTE: RETAIN EXISTING BRICKFORCE AND TIE INTO NEW WALL



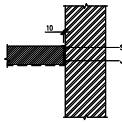

PLAN
SCALE 1:10



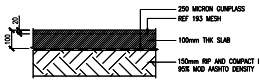

TYP. M16 HD BOLT DETAIL
SCALE 1:10



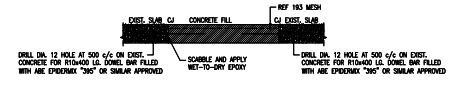

PLAN-IPE200
SCALE 1:10



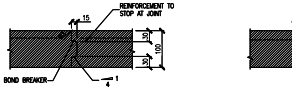

ISOLATION JOINT
SCALE 1:10



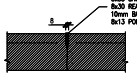

TYP. SLAB SECTION
SCALE 1:10



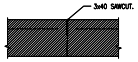

TYP. SURFACE BED DETAIL
SCALE 1:10




CONSTRUCTION JOINT
SCALE 1:5




EXPOSED SLAB
SCALE 1:5




SCREEDED SLAB
SCALE 1:5

CONTRACTION JOINT

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

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.

## 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 MARR 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 = +1357,070

## 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.



## 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,
Kilarney,
Johannesburg , 2193
Tel: 011 - 532 8659
Email info@mamadi.co.za

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



education
Lefapha la Thuto la Bokone Bophirima
Noordwes Departement van Onderwys
North West Department of Education
NORTH WEST PROVINCE

DISCIPLINE: CIVIL/STRUCTURAL

PROJECT NAME: SEDIKO PRIMARY SCHOOL
DBS NUMBER: 600101902

PROJECT STATUS: STAGE 1-3 CONCEPT | STAGE 4 TENDER | STAGE 5-6 CONSTRUCTION

DESCRIPTION: EX. ADMIN BLOCK ALTERATION TO NUTRITION CENTRE FOUNDATION, SURFACE BED & ROOF LAYOUT AND DETAILS

SCALE: AS SHOWN

DRAWN: NAME OF COMPETENT PERSON: MOTHOANA MASOOA

CHECKED: NAME OF COMPETENT PERSON: THABISO MOTSHEGOA

REG No: ECSA PR. 20206000498 | SIGNATURE

REG No: ECSA PR. 201370184 | SIGNATURE

PROJECT NUMBER: RFP 263/2019

DATE: 2021-01-15

DWG No: DBSA-JBT-S1-ENG-STR-DWG-001

REV No: F

OCCUPANCY CLASSIFICATION

### DBSA

ARCHITECT:.....

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

OHS:.....

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

### NORTH WEST DEPARTMENT OF EDUCATION

NAME:.....

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

NAME:.....

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

NAME:.....

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

### 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: 1 | Capacity: 2000 | LITERS |
| OTHER STORE | Yes | No | Specify below: |

### SANITATION/ SEWER

| | Yes | No | |
|---|---|---|---|
| MUNICIPALITY | | | MUNICIPALITY NAME: Mathosana |
| SEPTIC TANKS | | | CAPACITY: |
| PIT LATRINES | | | kl: Yes / No |
| 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 | PR.Arch 24740538 | 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 | | | | |