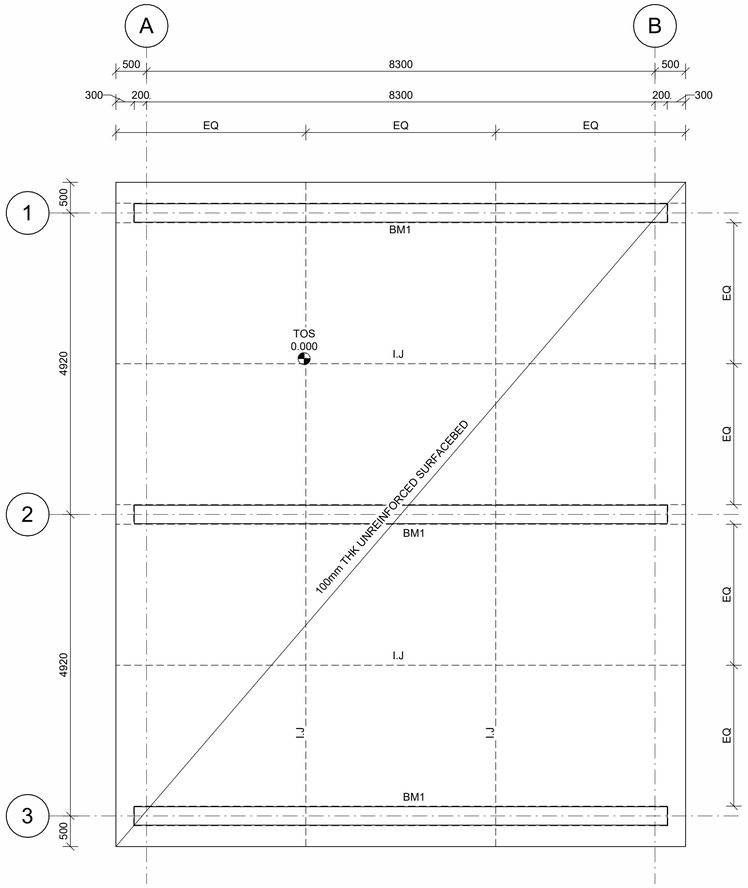
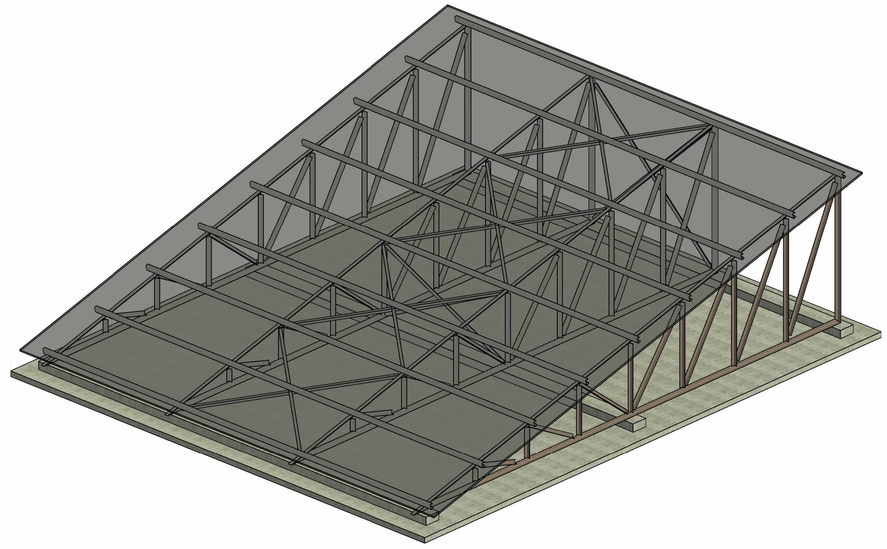


SURFACE BED LAYOUT
SCALE 1 : 50



3D PERSPECTIVE
SCALE

RC BEAMS

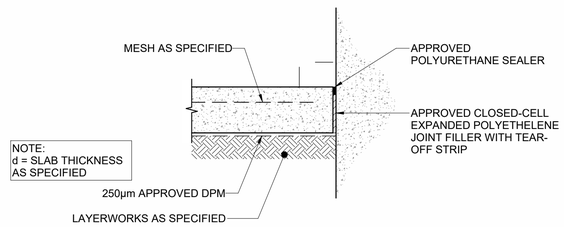
TYPE	DESCRIPTION	No. OFF	VOLUME
BM1	300 x 400mm	3	2.35 m³
TOTAL			2.35 m³

SURFACE BEDS

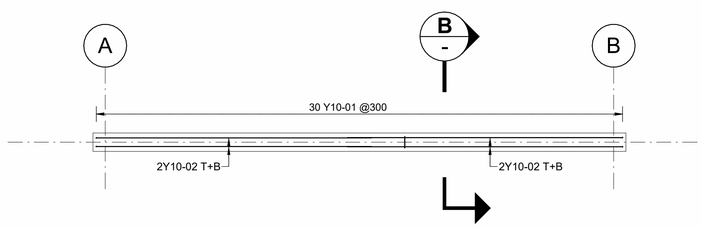
DESCRIPTION	AREA	VOLUME
100mm THK RC SLAB	101 m²	10.08 m³
TOTAL	101 m²	10.08 m³

MEMBER	NO OF	NR. BARS	DIA	CUT LENGTH	TOTAL	MARK	SC	A	B	C	D	E	r	kg
BM1														
BM1	3	30	Y10	1200	90	01	60	300	200	0	0	0	0	67
BM1	3	8	Y10	4800	24	02	37	300	4490	0	0	0	0	72

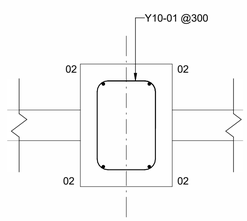
	8	10	12	16	20	25	32	40	TOTAL
	0	137	0	0	0	0	0	0	137
TOTAL	0	137	0	0	0	0	0	0	137



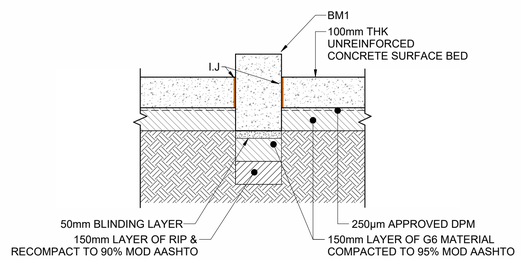
ISOLATION JOINT AGAINST CONCRETE (IJ)
SCALE 1 : 10



REBAR LAYOUT
SCALE 1 : 50



SECTION B
SCALE 1 : 10



TYPICAL LAYERWORKS DETAIL
SCALE 1 : 20

GENERAL NOTES

CONCRETE NOTES:

1. CONCRETE GRADES:
   - STRUCTURAL CONCRETE 30MPa/19mm/A
   - BLINDING LAYER TO ALL FOUNDATIONS 10MPa/13mm
2. ALL EXPOSED CONCRETE EDGES TO BE CHAMFERED 25 x 25 mm.
3. EXPOSED CONCRETE SURFACES TO BE WOOD FLOAT FINISHED, UNLESS OTHERWISE SPECIFIED.
4. REQUIRED BEARING CAPACITY: 150kPa (55kPa/mm) OR U.O.N
5. CONCRETE COVER TO REINFORCEMENT
   - TOP AND SIDES = 50mm
   - BOTTOM = 50mm
   - NOTE: WHERE CONCRETE TO FOUNDATIONS ARE CAST DIRECTLY AGAINST EXCAVATIONS THE COVER IS TO BE INCREASED TO 75mm BY ADDING TO THE OVERALL CONCRETE DIMENSION.
6. REBAR LAP LENGTH = 40 x DIAMETER BAR

DO NOT SCALE DRAWING

REFERENCE DRAWINGS

NUMBER	DRAWING DESCRIPTION

DATE	INITIAL	REV	REVISION DESCRIPTION
'26-02-12		AA	ISSUED FOR TENDER

OFFICES

MEBAN GROUP (Pty) Ltd

CLIENT

higher education & training
Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

IKHALA TECHNICAL AND VOCATIONAL EDUCATION & TRAINING COLLEGE

PROJECT

IKHALA TVET SOLAR FARM TRAINING FACILITY

DRAWING TITLE

IBR ROOF SHEETING STRUCTURE - CONCRETE LAYOUT AND REINFORCEMENT

SCALE	As indicated	DRAWN	BH
DESIGNED	BH	CHECKED	NM

PLAN NUMBER	REV. NO.	SHEET SIZE
0106-ST-01-01	AA	A1