DIRECTPOINT	CLIENT:Sudatel	PART NO.:
	PROJECT:Phase H	REV.:A
DWG. NO.:	Site ID:G-6083	Site Name: G-6083- NLN-Shabasha-02-G-6083
	Latitude:N 14.16637	Longitude:E 32.2069

DRAWING LIST

NO.	DRAWING NO.	STRUCTURE NO.	DRAWING TITLE	SIZE	NOTE
1	G-6083-01		List of Equipments Installation		
2	G-6083-02		Site Location Map		
3	G-6083-03		45m SST Hybrid-Site layout		
4	G-6083-04		45m SST Hybrid-Site elevation		
5	G-6083-05		Brick Wall Design-1		
6	G-6083-06		Brick Wall Design-2		
7	G-6083-07		Gate for Brick Wall-1		
8	G-6083-08		Gate for Brick Wall-2		
9	G-6083-09		ODU Basement-1		
10	G-6083-10		ODU Basement-2		
11	G-6083-11		ODU Umbrella Design-1		
12	G-6083-12		ODU Umbrella Design-2		
13	G-6083-13		Generator Foundation (12.5KVA)-1		
14	G-6083-14		Generator Foundation (12.5KVA)-2		
15	G-6083-15		45m tower foundation		
16					
17					
18					
19					
20					

DESIGNED: CHECKED: APPROVED:

LIST OF EQUIPMENT INSTALLATION

No.	Item	UNIT	Qty	Description
1	45m Self Support Tower	SET	1	100KPA
2	External Cable Tray	pcs	2	W=400MM,2m per 2 pcs
3	External Cable Tray Support	SET	3	200mm heigh
4	BTS 3900A	SET	1	W*D*H(mm):600*480*(200+700+700)
5	TP48200A	SET	1	W*D*H(mm):762.5*700*(200+1625)
6	ACB	SET	1	W*D*H(mm):905*1085*2155
7	Generator	SET	1	12.5KVA 1+0
8	RF Antenna	SET	0	See detail in site elevation
9	MW Antenna	SET	1	See detail in site elevation
10				
11				

SITE ID:	SITE Option:
G-6083	C1

SITE NAME

NLN-Shabasha-02-G-6083

COORDINATES	LATITUDE N: 14.16637
	LONGITUDE E: 32.20690

DRAWING TITLE

List of Equipments Installation

	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
1.00 RF ANTENNAS	SEC.(1)			40M	
	SEC.(2)			40M	
	SEC.(3)			40M	
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				

MW ANTENNAS	No.	AZIMUTH	DIAMETER	HEIGHT
	MW1		.3	35
	MW2		.3	35
	MW3		.3	35

DRAWING DATA	SIZE: A4	
	DWG NO: G-6083	REV NO:A
	DWG DATE:15/2/2014	DWG SCALE:

Designer	Randa Wlle
Reviewer	
Supervisor	
Approver	

PROJECT

Sudatel Phase H Project

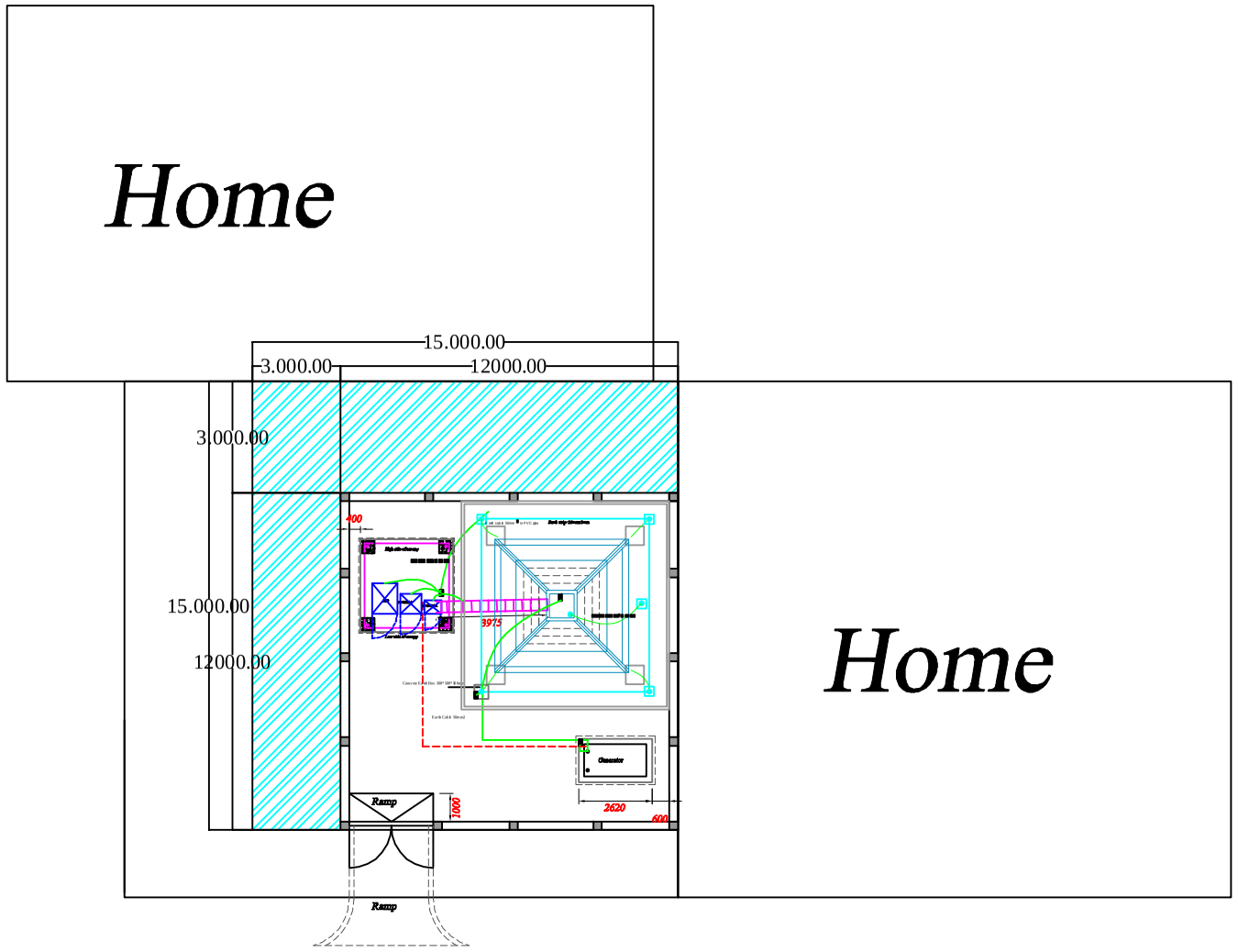
CLIENT

sudatel سودتل

CONTRACTOR

DIRECTPOINT

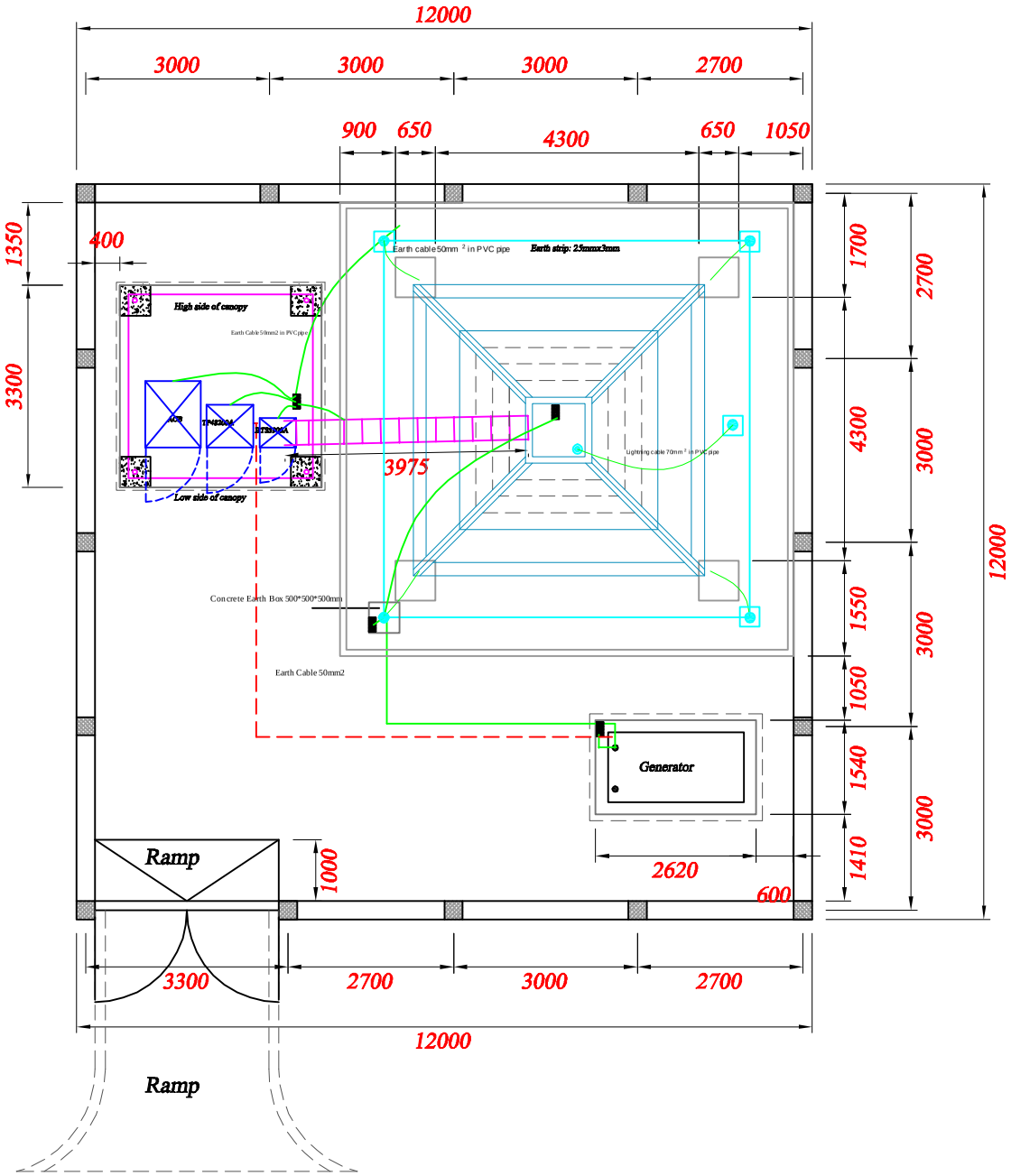
SUBCONTRACTOR



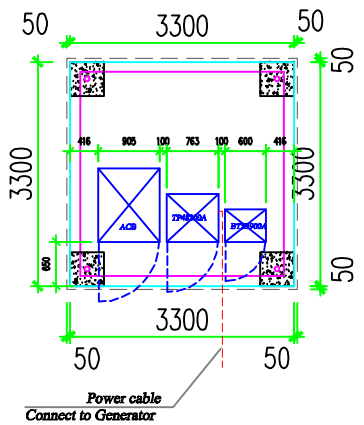
Road

Home	Home
Home	Home

SITE ID:			SITE Option:		
G-6083			C1		
SITE NAME					
NLN-Shabasha-02-G-6083					
COORDINATES	LATITUDE N: 14.16637				
	LONGITUDE E: 32.20690				
DRAWING TITLE					
45m SST Hybrid -Site Layout					
RF ANTENNAS	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
	SEC.(1)			40M	
	SEC.(2)			40M	
	SEC.(3)			40M	
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				
MW ANTENNAS	No.	AZIMUTH	DIAMETER		HEIGHT
	MW1		.3		35
	MW2		.3		35
	MW3		.3		35
DRAWING DATA	SIZE: A4				
	DWG NO: G-6083-01			REV NO:A	
	DWG DATE: 15/2/2014			DWG SCALE:	
Designer	Randa Wlle				
Reviewer					
Supervisor					
Approver					
PROJECT					
Sudatel Phase H Project					
CLIENT					
CONTRACTOR					
DIRECTPOINT					
SUBCONTRACTOR					



- Tower Lightning Cable 70mm2
- Tower Earth Cable 50mm2 in PVC pipe
- Generator Earth Cable 16mm2 in PVC pipe
- Cable Tray Earth Cable 16mm2, one connection each 2m
- Equipment Earth Cable 25mm2
- Earthing copper strip, 25mm*3mm
- AC power Cable 4*10mm ² in PVC pipe
- Grounding bus bar
- Plastic Earth Box 300*300*300mm
- Concrete Earth Box 500*500*500mm



ODU Layout

SITE ID:	SITE Option:
G-6083	C1

SITE NAME

NLN-Shabasha-02-G-6083

COORDINATES	LATITUDE N:14.16637°
	LONGITUDE E: 32.20690°

DRAWING TITLE

45m SST Hybrid -Site Layout

	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
RF ANTENNAS	SEC.(1)			40M	
	SEC.(2)			40M	
	SEC.(3)			40M	
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				

	No.	AZIMUTH	DIAMETER	HEIGHT
MW ANTENNAS	MW1		.3	35
	MW2		.3	35
	MW3		.3	35

DRAWING DATA	SIZE: A4	
	DWG NO: G-4503-02	REV NO:A
	DWG DATE: 2011-07-24	DWG SCALE:

Designer	
Reviewer	
Supervisor	
Approver	

PROJECT

Sudatel Phase H Project

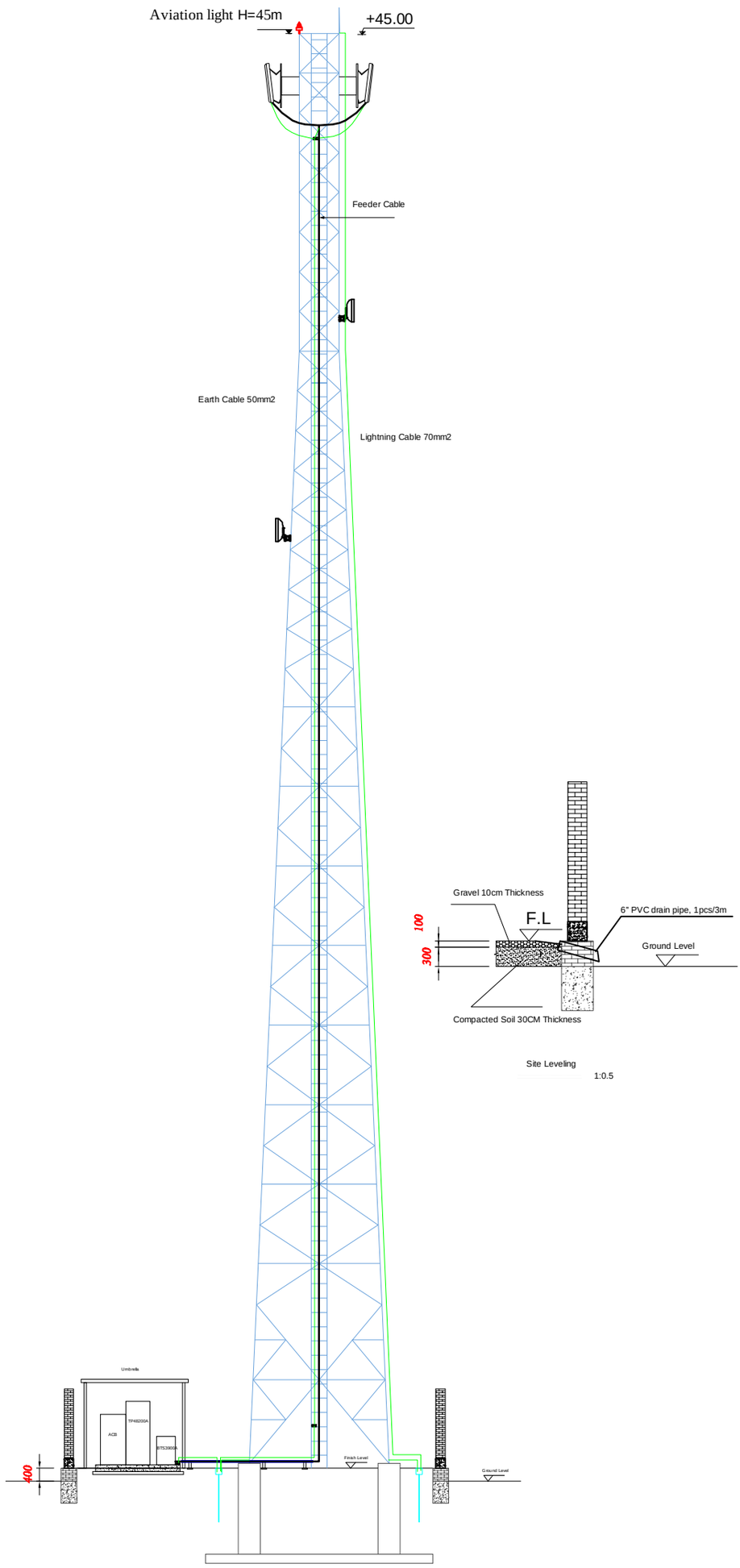
CLIENT

sudatel سودتل

CONTRACTOR

DIRECTPOINT

SUBCONTRACTOR



Cable List

Item	Description	Quantity
Generator	12.5KVA, 1+1	1 Set
Cable Tray	400mm width, 2m per pcs	2 pcs
Lightning Cable	Yellow and Green Copper cable 70mm ^{2}	50m
Earth Cable	Yellow and Green Copper cable 50mm ^{2}	20m+antenna height
Earthing Strip	Earthing copper strip, 25mm*3mm	30m
Earth Rod	1.5m length, copper	5 pcs
Earth Bar	thickness 3mm, 12 holes, copper	4 pcs
Cable Tray Support	200mm height	3 pcs
Feeder Cable	7/8"	50*6m
AC Power Cable	4*16mm^2 from Generator to TP48200A	12m

SITE ID: G-6083

SITE Option: C1

SITE NAME

NLN-Shabasha-02

COORDINATES	
	LATITUDE N: 14.16637°
	LONGITUDE E: 32.20690°

DRAWING TITLE

45m SST Hybrid -Site Elevation

	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
RF ANTENNAS	SEC.(1)				
	SEC.(2)				
	SEC.(3)				
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				

	No.	AZIMUTH	DIAMETER	HEIGHT
MW ANTENNAS	MW1			
	MW2			
	MW3			

DRAWING DATA		
	SIZE: A4	
	DWG NO:	REV NO:A
	DWG DATE:	DWG SCALE:

Designer	
Reviewer	
Supervisor	
Approver	

PROJECT

Sudatel Phase H Project

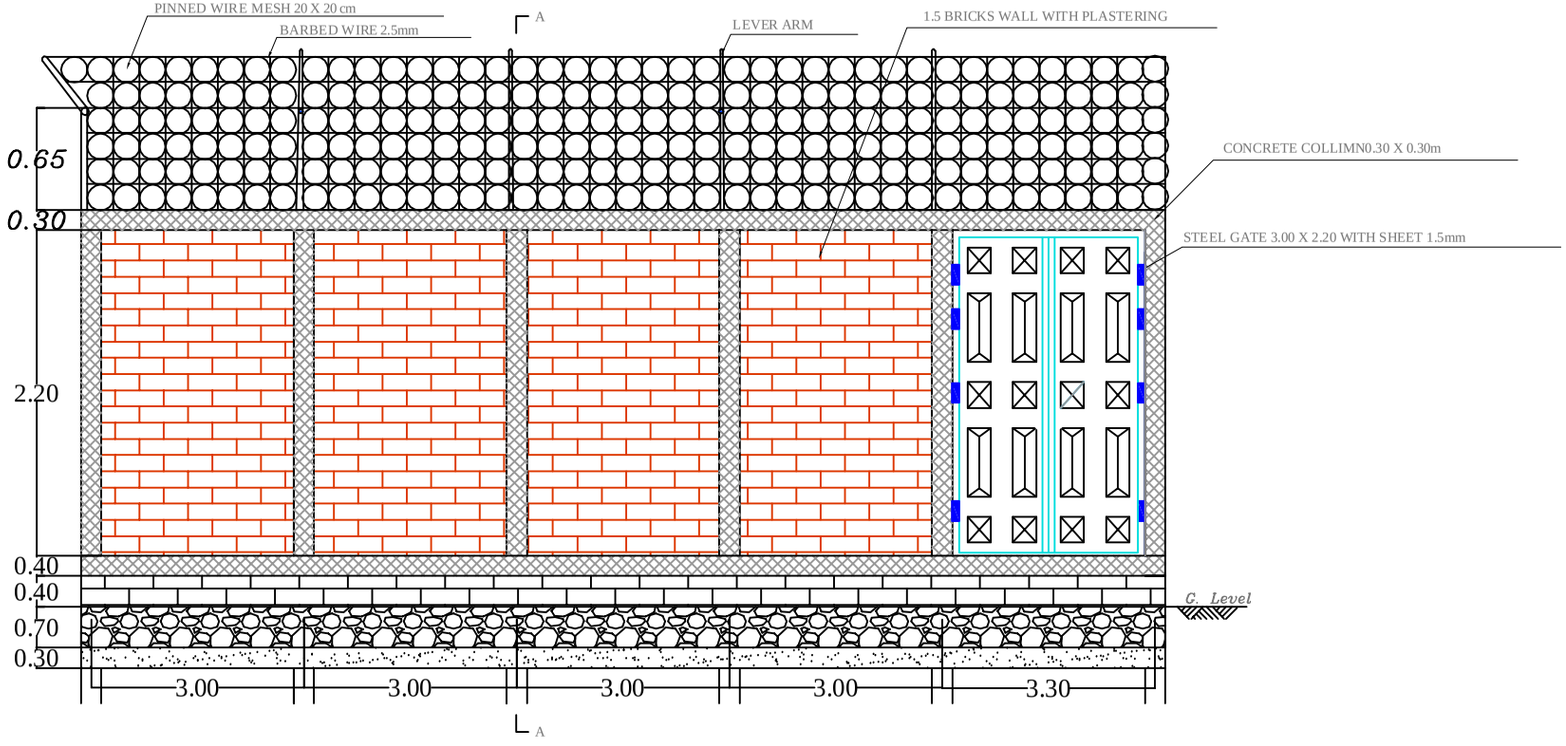
CLIENT

sudatel سودتل

CONTRACTOR

DIRECTPOINT

SUBCONTRACTOR



Notes:

1.Red Brick strength is MU7.5(7.5MPa).

2.Cement mortar strength is M5(5MPa).
mix is 1:6 as reference.

3.Both side of the wall will have plaster.
Thickness of plaster is 15~20mm.

4.Decayed rock is forbidden to use.
Minimum strength for rock is MU30(30MPa).

5.Size of rock should between 100mm~300mm.

6.Brick wall and gate need to be painted as
color of Sudatel logo.

SITE ID:	SITE Option:

SITE NAME

COORDINATES	LATITUDE N:
	LONGITUDE E:

DRAWING TITLE

Brick Wall Design-1

RF ANTENNAS	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
	SEC.(1)				
	SEC.(2)				
	SEC.(3)				
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				

MW ANTENNAS	No.	AZIMUTH	DIAMETER	HEIGHT
	MW1			
	MW2			
	MW3			

DRAWING DATA	SIZE: A4		
	DWG NO:		REV NO:A
	DWG DATE:		DWG SCALE:

Designer	
Reviewer	
Supervisor	
Approver	

PROJECT

Sudatel Phase H Project

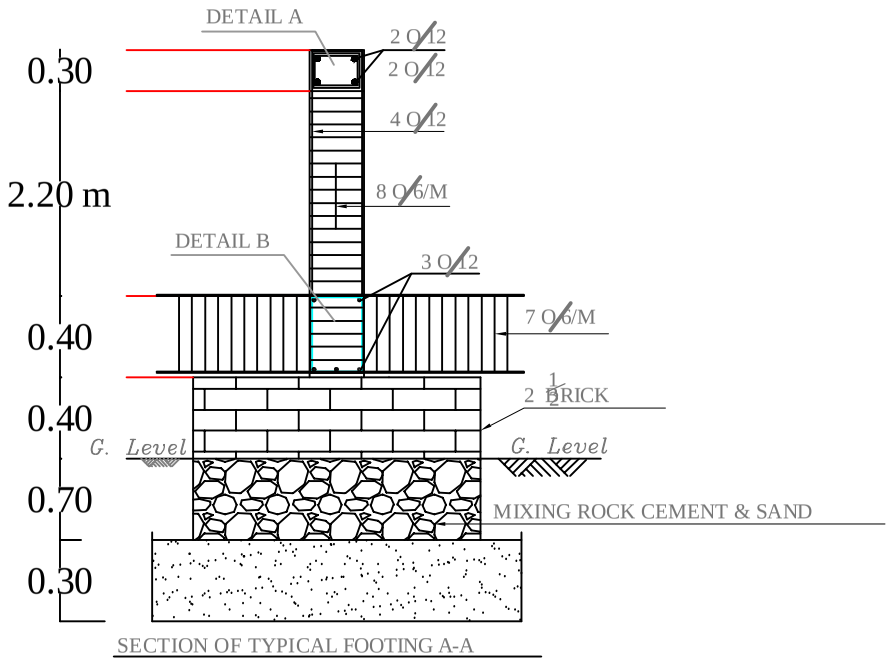
CLIENT

sudatel سودتل

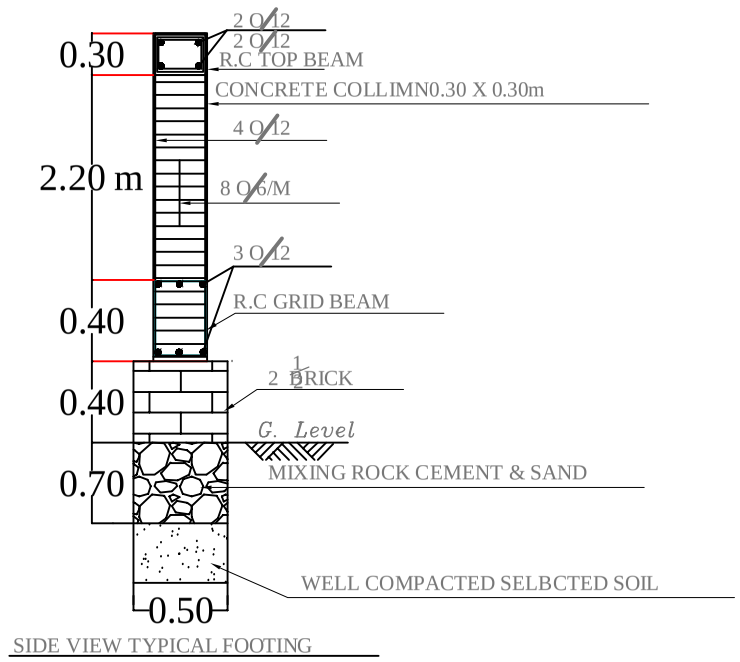
CONTRACTOR

DIRECTPOINT

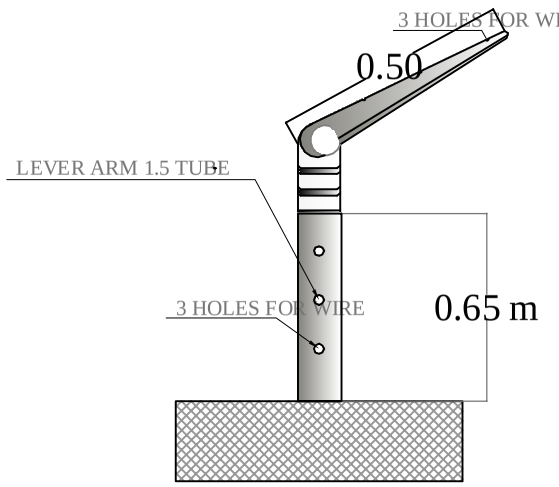
SUBCONTRACTOR

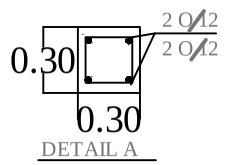


SECTION OF TYPICAL FOOTING A-A

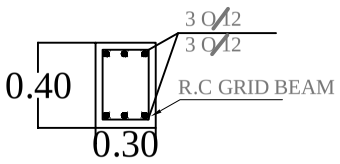


SIDE VIEW TYPICAL FOOTING





DETAIL A

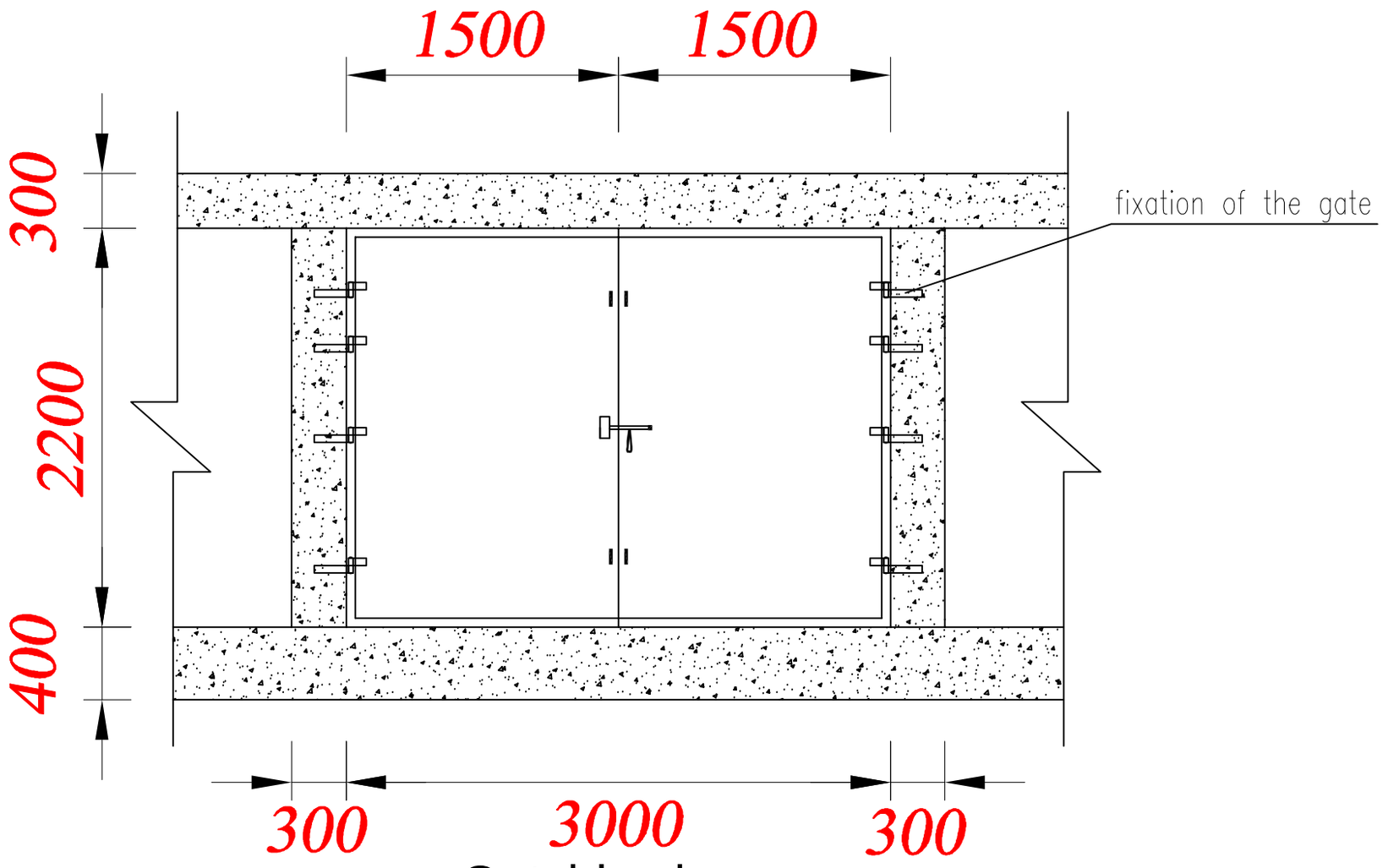


DETAIL B

Notes:

1.Red Brick strength is MU7.5(7.5MPa).
2.Cement mortar strength is M5(5MPa).
mix is 1:6 as reference.
3.Both side of the wall will have plaster.
Thickness of plaster is 15~20mm.
4.Decayed rock is forbidden to use.
Minimum strength for rock is MU30(30MPa).
5.Size of rock should between 100mm~300mm.

SITE ID:		SITE Option:			
SITE NAME					
COORDINATES	LATITUDE N:				
	LONGITUDE E:				
DRAWING TITLE					
Brick Wall Design-2					
RF ANTENNAS	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
	SEC.(1)				
	SEC.(2)				
	SEC.(3)				
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				
MW ANTENNAS	No.	AZIMUTH	DIAMETER		HEIGHT
	MW1				
	MW2				
	MW3				
DRAWING DATA	SIZE: A4				
	DWG NO:		REV NO:A		
	DWG DATE:		DWG SCALE:		
Designer					
Reviewer					
Supervisor					
Approver					
PROJECT					
Sudatel Phase H Project					
CLIENT					
CONTRACTOR					
DIRECTPOINT					
SUBCONTRACTOR					



Outside view

Remark:
1. Outside frame 80*40*2.5mm, inside frame 60* 30*2.5mm;
2. steel sheet 1.5mm thickness;
3. Steel Material shall follow up ASTM A235 or equivalent, Gr. 8.8;
4. the fixation part of the gate should be 2.5 inch*2.5 inch*2.5mm

SITE ID:	SITE Option:

SITE NAME

COORDINATES	LATITUDE N:
	LONGITUDE E:

DRAWING TITLE

Gate for Brick Wall-1

	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
RF ANTENNAS	SEC.(1)				
	SEC.(2)				
	SEC.(3)				
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				

	No.	AZIMUTH	DIAMETER	HEIGHT
MW ANTENNAS	MW1			30M
	MW2			30M
	MW3			30M

DRAWING DATA	SIZE: A4	
	DWG NO-	REV NO:A
	DWG DATE:	DWG SCALE:

Designer	
Reviewer	
Supervisor	
Approver	

PROJECT

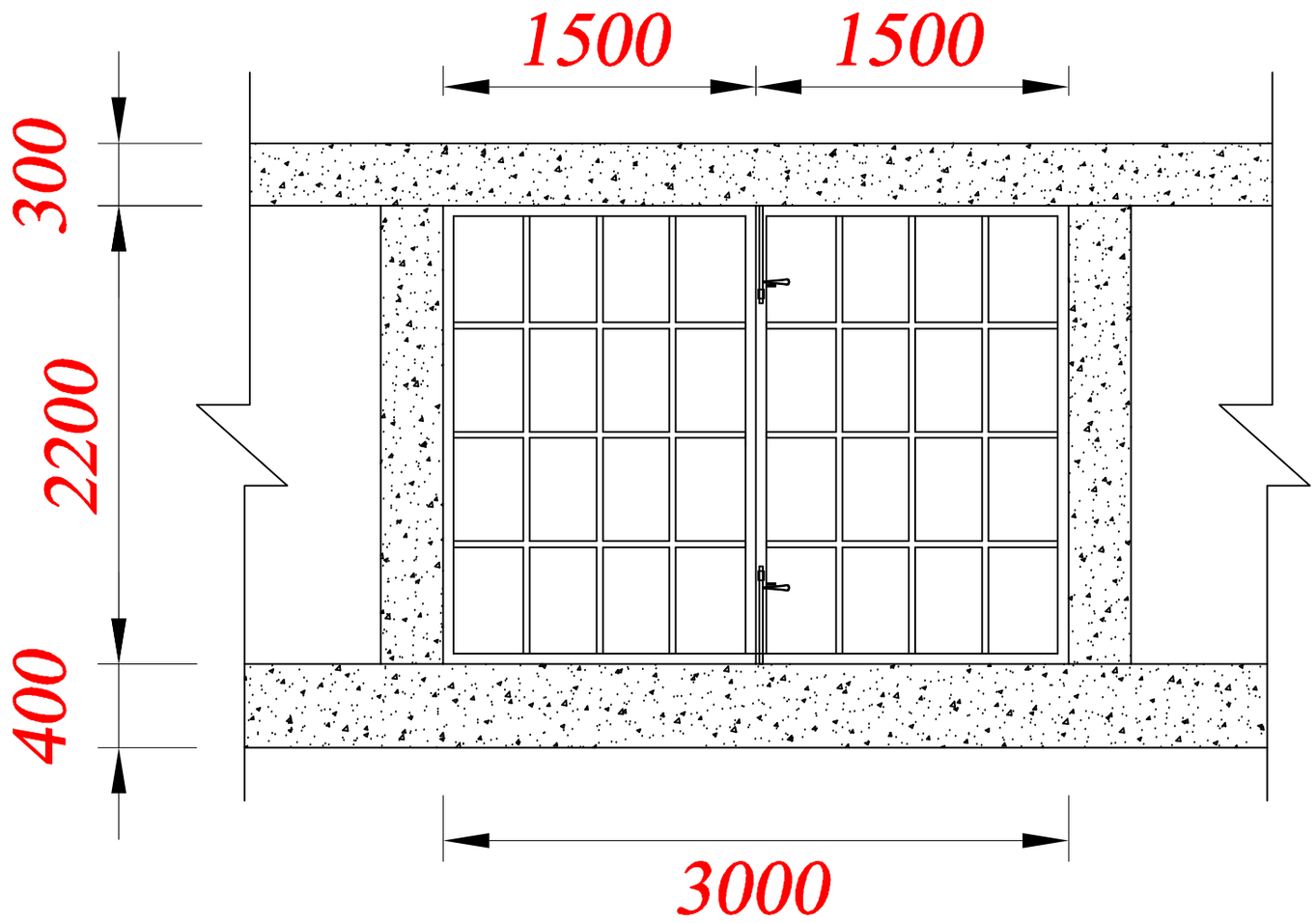
Sudatel Phase H Project

CLIENT

CONTRACTOR

DIRECTPOINT

SUBCONTRACTOR



Inside view

SITE ID:	SITE Option:

SITE NAME

COORDINATES	LATITUDE N:
	LONGITUDE E:

DRAWING TITLE

Gate for Brick Wall-2

RF ANTENNAS	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
	SEC.(1)				
	SEC.(2)				
	SEC.(3)				
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				

MW ANTENNAS	No.	AZIMUTH	DIAMETER	HEIGHT
	MW1			
	MW2			
	MW3			

DRAWING DATA	SIZE: A4	
	DWG NO:	REV NO:A
	DWG DATE:	DWG SCALE:

Designer	
Reviewer	
Supervisor	
Approver	

PROJECT

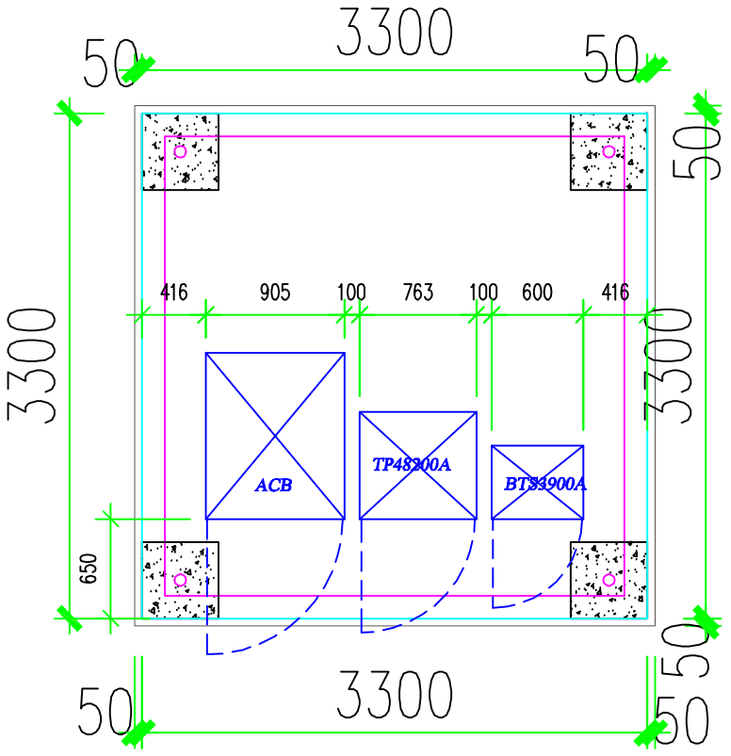
Sudatel Phase H Project

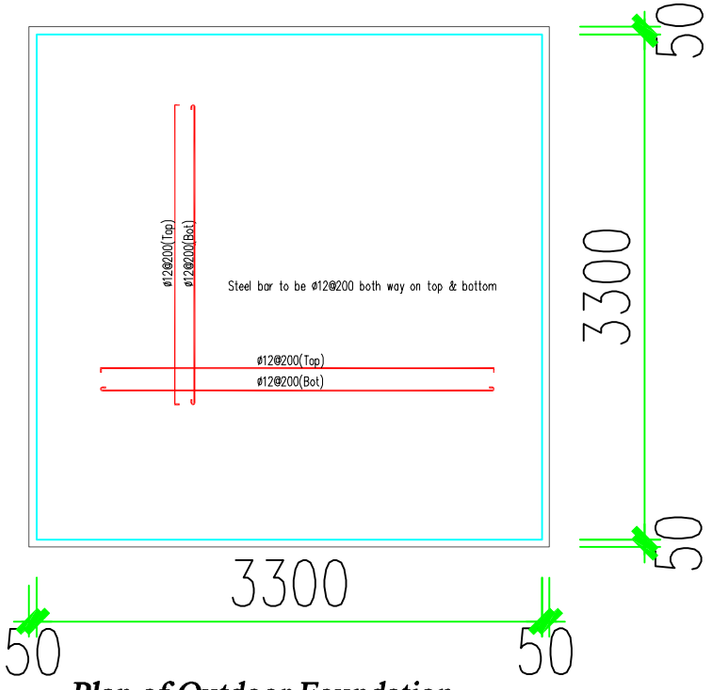
CLIENT

CONTRACTOR

DIRECTPOINT

SUBCONTRACTOR





Plan of Outdoor Foundation

Note:

1. ▼ *Front Door*

2. All exposed edges of foundation will have a 20mm chamfer.

3. Reinforced concrete strength:25Mpa.

Plain concrete strength:10Mpa

4. The compact rate for the backfilling soil should be 95%.

SITE ID:	SITE Option:

SITE NAME

COORDINATES	LATITUDE N:
	LONGITUDE E:

DRAWING TITLE

ODU Basement-1

RF ANTENNAS	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
	SEC.(1)				
	SEC.(2)				
	SEC.(3)				
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				

MW ANTENNAS	No.	AZIMUTH	DIAMETER	HEIGHT
	MW1			
	MW2			
	MW3			

DRAWING DATA	SIZE: A4	
	DWG NO:	REV NO:A
	DWG DATE:	DWG SCALE:

Designer	
Reviewer	
Supervisor	
Approver	

PROJECT

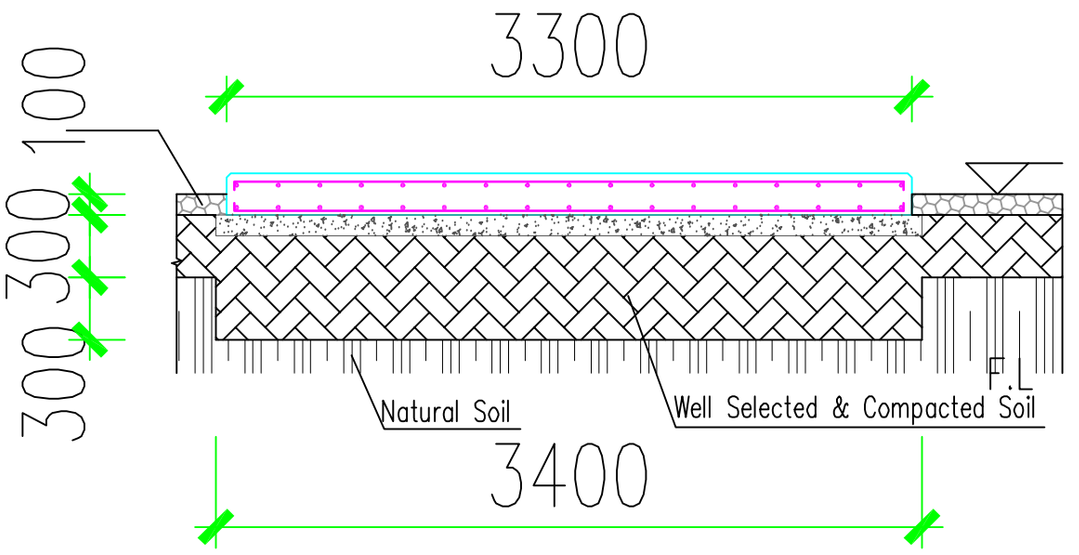
Sudatel Phase H Project

CLIENT

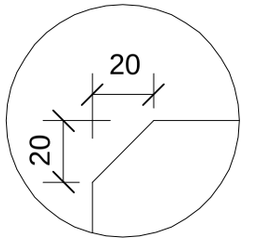
CONTRACTOR

DIRECTPOINT

SUBCONTRACTOR



Section of Outdoor Foundation



Detail-Chamfer

Note:

1. ▼ *Front Door*

2. All exposed edges of foundation will have a 20mm chamfer.

3. Reinforced concrete strength:25Mpa.

Plain concrete strength:10Mpa

4. The compact rate for the backfilling soil should be 95%.

SITE ID:	SITE Option:

SITE NAME

COORDINATES	LATITUDE N:
	LONGITUDE E:

DRAWING TITLE

ODU Basement-2

RF ANTENNAS	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
	SEC.(1)				
	SEC.(2)				
	SEC.(3)				
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				

MW ANTENNAS	No.	AZIMUTH	DIAMETER	HEIGHT
	MW1			
	MW2			
	MW3			

DRAWING DATA	SIZE: A4	
	DWG NO:	REV NO:A
	DWG DATE:	DWG SCALE:

Designer	
Reviewer	
Supervisor	
Approver	

PROJECT

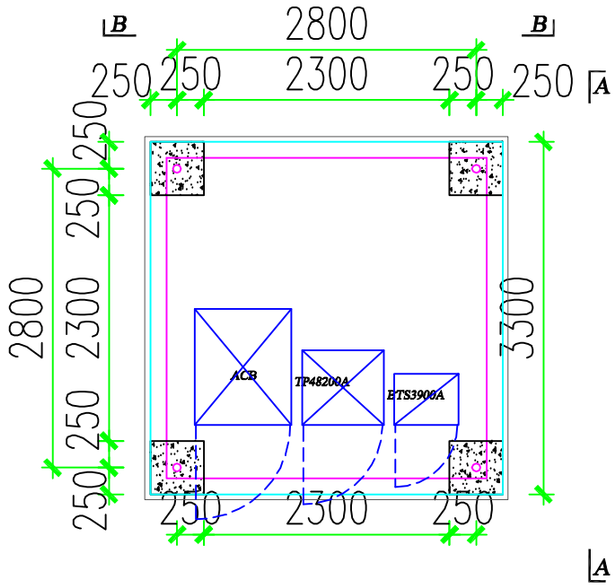
Sudatel Phase H Project

CLIENT

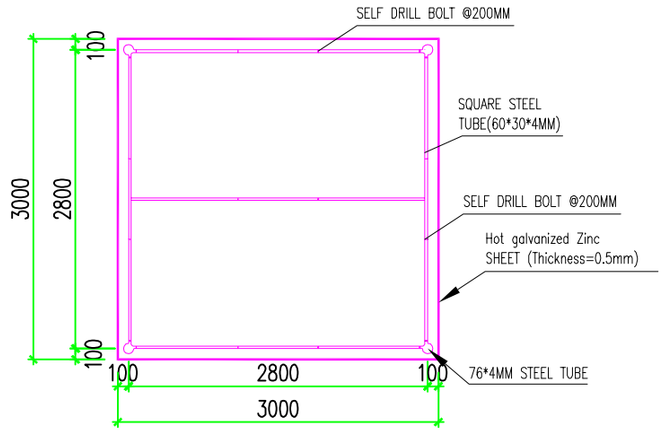
CONTRACTOR

DIRECTPOINT

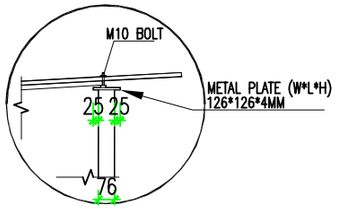
SUBCONTRACTOR



ODU Umbrella Plan



Umbrella Sheet



Detail-A

Remark:

Reinforced concrete, strength=25Mpa

Plain concrete, strength=10Mpa

1.All dimension are in Millimeters unless otherwise noted.

2. Self Drilled Holes shall be made before the galvanization;
3. F.L mean finished level;
4. All the Materials shall be hot dipped galvanized;
5. Hot galvanization shall comply with ISO1461-1999;
6. Steel materials shall comply with ASTM A235 or equivalent, Gr.8.8;
7. The compact rate for the backfilling should be 95%.

SITE ID:	SITE Option:

SITE NAME

COORDINATES	LATITUDE N:
	LONGITUDE E:

DRAWING TITLE

ODU Umbrella Design-1

RF ANTENNAS	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
	SEC.(1)				
	SEC.(2)				
	SEC.(3)				
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				

MW ANTENNAS	No.	AZIMUTH	DIAMETER	HEIGHT
	MW1			
	MW2			
	MW3			

DRAWING DATA	SIZE: A4	
	DWG NO:	REV NO:A
	DWG DATE	DWG SCALE:

Designer	
Reviewer	
Supervisor	
Approver	

PROJECT

Sudatel Phase H Project

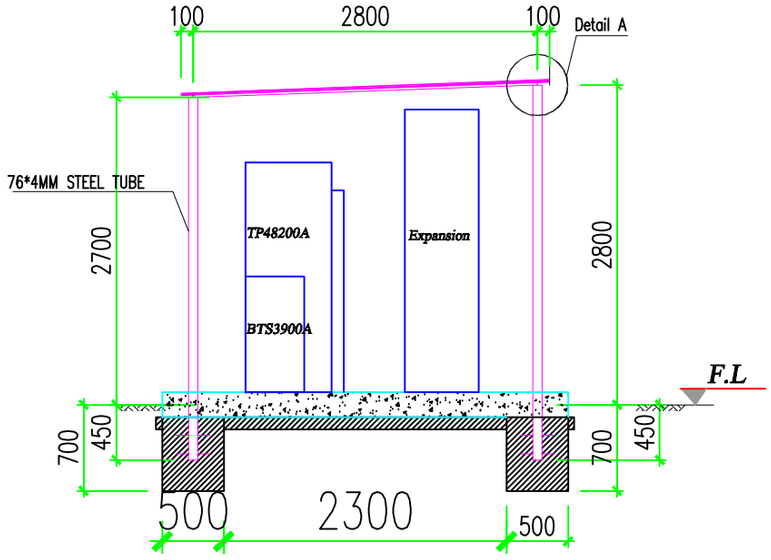
CLIENT

sudatel سودتل

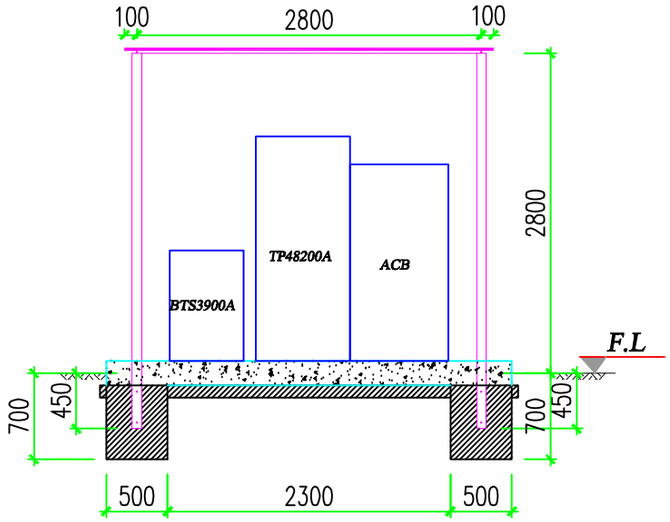
CONTRACTOR

DIRECTPOINT

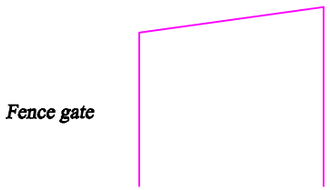
SUBCONTRACTOR



A-A



B-B



Umbrella Profile

Remark:

Reinforced concrete, strength=25Mpa

Plain concrete, strength=10Mpa

1.All dimension are in Millimeters unless otherwise noted.

2. Self Drilled Holes shall be made before the galvanization;

3. F.L mean finished level;

4. All the Materials shall be hot dipped galvanized;

5. Hot galvanization shall comply with ISO1461-1999;

6. Steel materials shall comply with ASTM A235 or equivalent, Gr.8.8;

7. The compact rate for the backfilling should be 95%.

SITE ID:	SITE Option:

SITE NAME

COORDINATES	LATITUDE N:
	LONGITUDE E:

DRAWING TITLE

ODU Umbrella Design-2

RF ANTENNAS	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
	SEC.(1)				
	SEC.(2)				
	SEC.(3)				
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				

MW ANTENNAS	No.	AZIMUTH	DIAMETER	HEIGHT
	MW1			
	MW2			
	MW3			

DRAWING DATA	SIZE: A4	
	DWG NO:	REV NO:A
	DWG DATE:	DWG SCALE:

Designer	
Reviewer	
Supervisor	
Approver	

PROJECT

Sudatel Phase H Project

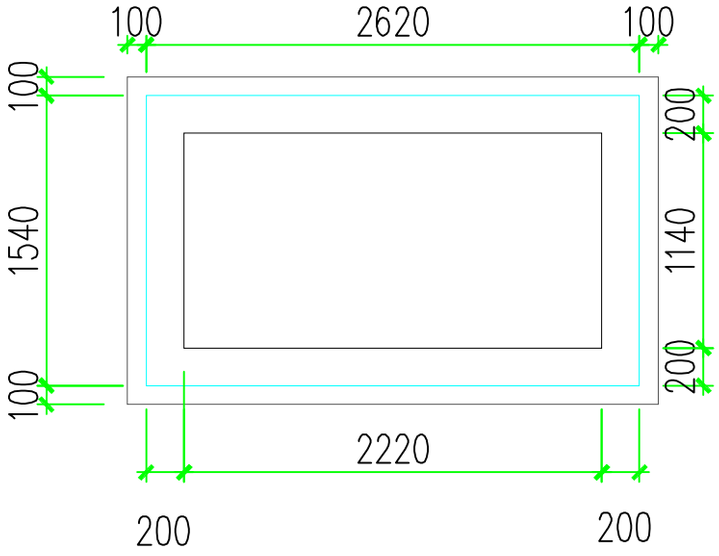
CLIENT

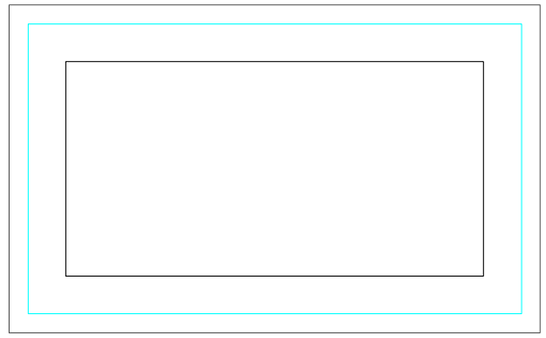
sudatel سودانل

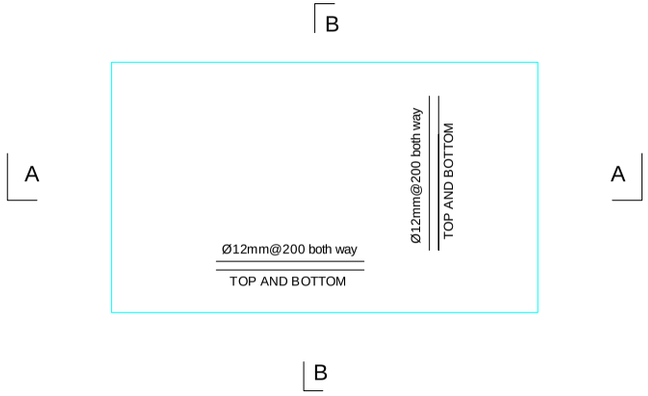
CONTRACTOR

DIRECTPOINT

SUBCONTRACTOR







NOTES:

1.STRENGTH FOR ALL REINFORCED CONCRETE ELEMENTS AFTER 28 DAYS OF CASTING IS 250KG/CM2

2.STRENGTH OF PLAIN CONCRETE AFTER 28 DAYS IS 150KG/CM2

3.Steel Rebar yield strength: 335MPa(d=12mm)

4.CONCRETE COVER FOR SUBTERRAN CONCRETE ELEMENTS IS 30MM

5.CONCRETE COVER FOR SUPERTEERAN CONCRETE ELEMENTS IS 30MM

6.ALL MATERIALS USED IN CASTING PROCESS SHALL BE APPROVED BY THE CONSULTANT(S)

7.ALL CASTING PROCESS SHALL BE MADE UNDER DIRECT SUPERVISION FROM CONSULTANT(S)

8.All exposed edges of foundation will have a 20mm chamfer.

9.The compact rate for the backfilling should be 95%.

SITE ID:	SITE Option:

SITE NAME

COORDINATES	LATITUDE N:
	LONGITUDE E:

DRAWING TITLE

Generator Foudantion(12.5KVA)-1

RF ANTENNAS	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
	SEC.(1)				
	SEC.(2)				
	SEC.(3)				
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				

MW ANTENNAS	No.	AZIMUTH	DIAMETER	HEIGHT
	MW1			
	MW2			
	MW3			

DRAWING DATA	SIZE: A4	
	DWG NO:	REV NO:A
	DWG DATE:	DWG SCALE:

Designer	
Reviewer	
Supervisor	
Approver	

PROJECT

Sudatel Phase H Project

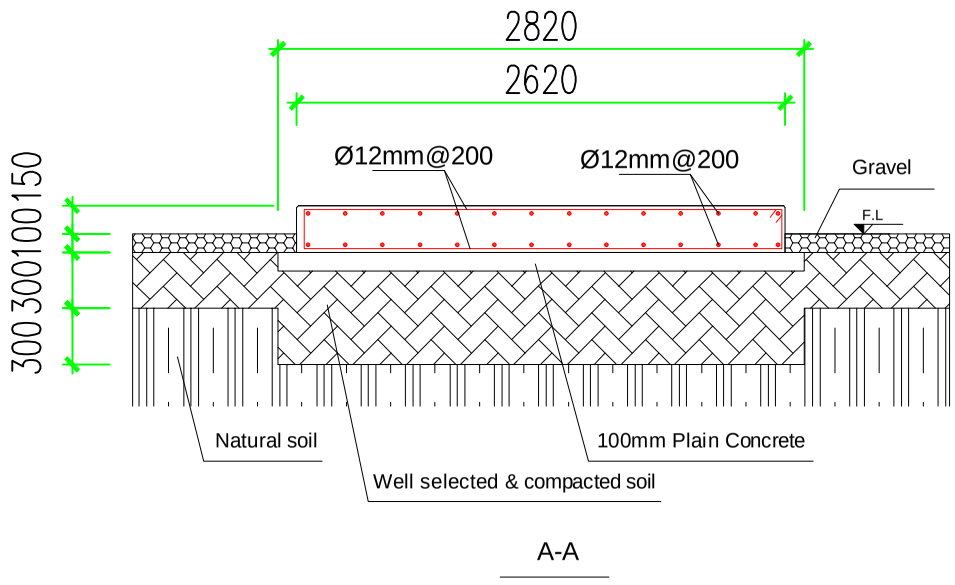
CLIENT

sudatel سودتل

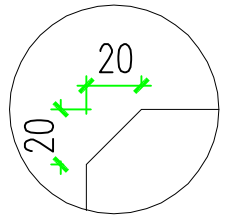
CONTRACTOR

DIRECTPOINT

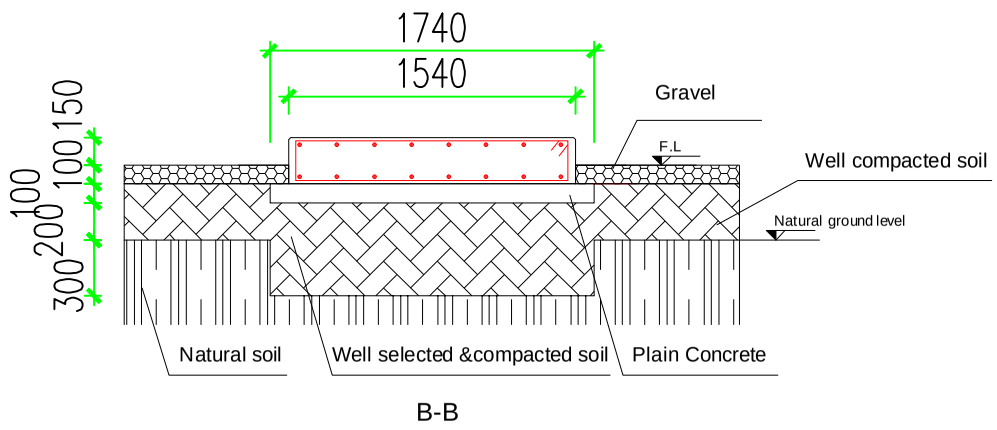
SUBCONTRACTOR



A-A



Detail-Chamfer



B-B

NOTES:

1.STRENGTH FOR ALL REINFORCED CONCRETE ELEMENTS AFTER 28 DAYS OF CASTING IS 250KG/CM2
2.STRENGTH OF PLAIN CONCRETE AFTER 28 DAYS IS 150KG/CM2
3.Steel Rebar yield strength: 335MPa(d=12mm)
4.CONCRETE COVER FOR SUBTERRAN CONCRETE ELEMENTS IS 30MM
5.CONCRETE COVER FOR SUPERTEERAN CONCRETE ELEMENTS IS 30MM
6.ALL MATERIALS USED IN CASTING PROCESS SHALL BE APPROVED BY THE CONSULTANT(S)
7.ALL CASTING PROCESS SHALL BE MADE UNDER DIRECT SUPERVISION FROM CONSULTANT(S)
8.All exposed edges of foundation will have a 20mm chamfer.
9.The compact rate for the backfilling should be 95%.

SITE ID:	SITE Option:

SITE NAME

COORDINATES	LATITUDE N:
	LONGITUDE E:

DRAWING TITLE

Generator Foudantion(12.5KVA)-2

RF ANTENNAS	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
	SEC.(1)				
	SEC.(2)				
	SEC.(3)				
	SEC.(5)				
	SEC.(6)				
	SEC.(7)				

MW ANTENNAS	No.	AZIMUTH	DIAMETER	HEIGHT
	MW1			
	MW2			
	MW3			

DRAWING DATA	SIZE: A4	
	DWG NO:	REV NO:A
	DWG DATE:	DWG SCALE:

Designer	
Reviewer	
Supervisor	
Approver	

PROJECT

Sudatel Phase H Project

CLIENT

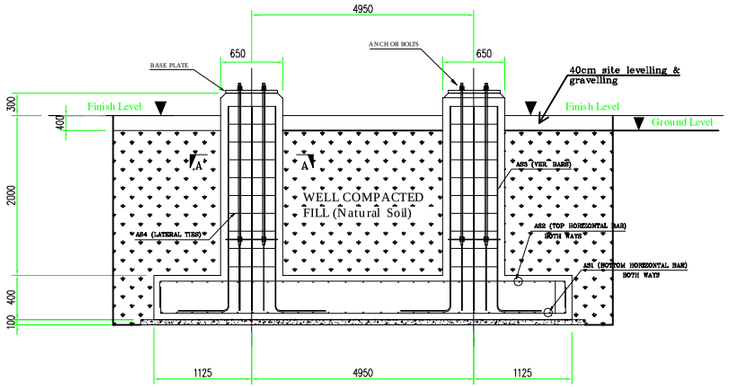
sudatel سودتل

CONTRACTOR

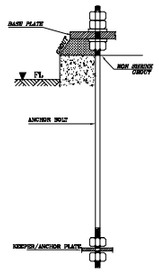
DIRECTPOINT

SUBCONTRACTOR

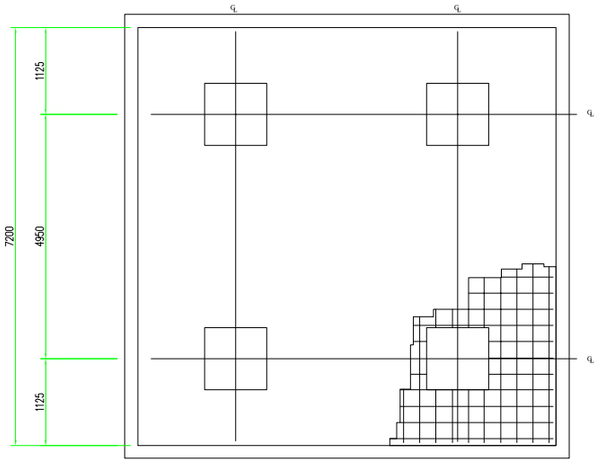
TOWER HEIGHT (M)	TOWER FOUNDATION TABLE			
	FOUNDATION REINFORCEMENT			
	AS1	AS2	AS3	AS4
45	T12mm@150mm c/c	T12mm@150mm c/c	24 T16mm /Column	T10mm @150mm c/c



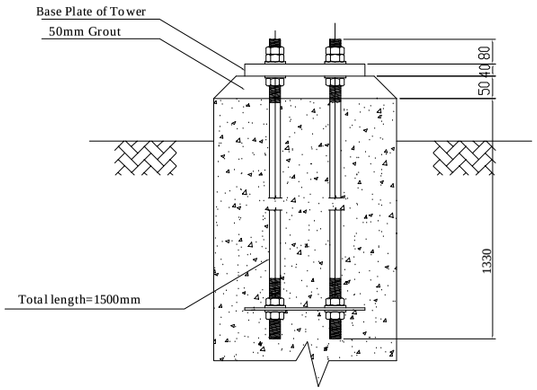
ELEVATION

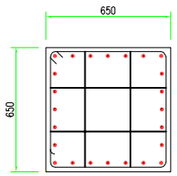


ANCHOR BOLT DETAILS
(TYPICAL)



PLAN





SITE ID:	SITE Option:
G-6083	C1

SITE NAME

NLN-Shabasha-02-G-6083

COORDINATES	LATITUDE N: 14.16637°
	LONGITUDE E: 32.20690°

DRAWING TITLE

Tower Foundation design-45m SST

	SECTOR	AZIMUTH	TILT	HEIGHT	SECTOR TYPE
RF ANTENNAS	SEC.(1)			40	
	SEC.(2)			40	
	SEC.(3)			40	
	SEC.(5)			40	
	SEC.(6)			40	
	SEC.(7)				

	No.	AZIMUTH	DIAMETER	HEIGHT
MW ANTENNAS	MW1		.3	35
	MW2		.3	35
	MW3		.3	35

DRAWING DATA	SIZE: A4	
	DWG NO:	REV NO:A
	DWG DATE:	DWG SCALE:

Designer	
Reviewer	
Supervisor	
Approver	

PROJECT

Sudatel Phase H Project

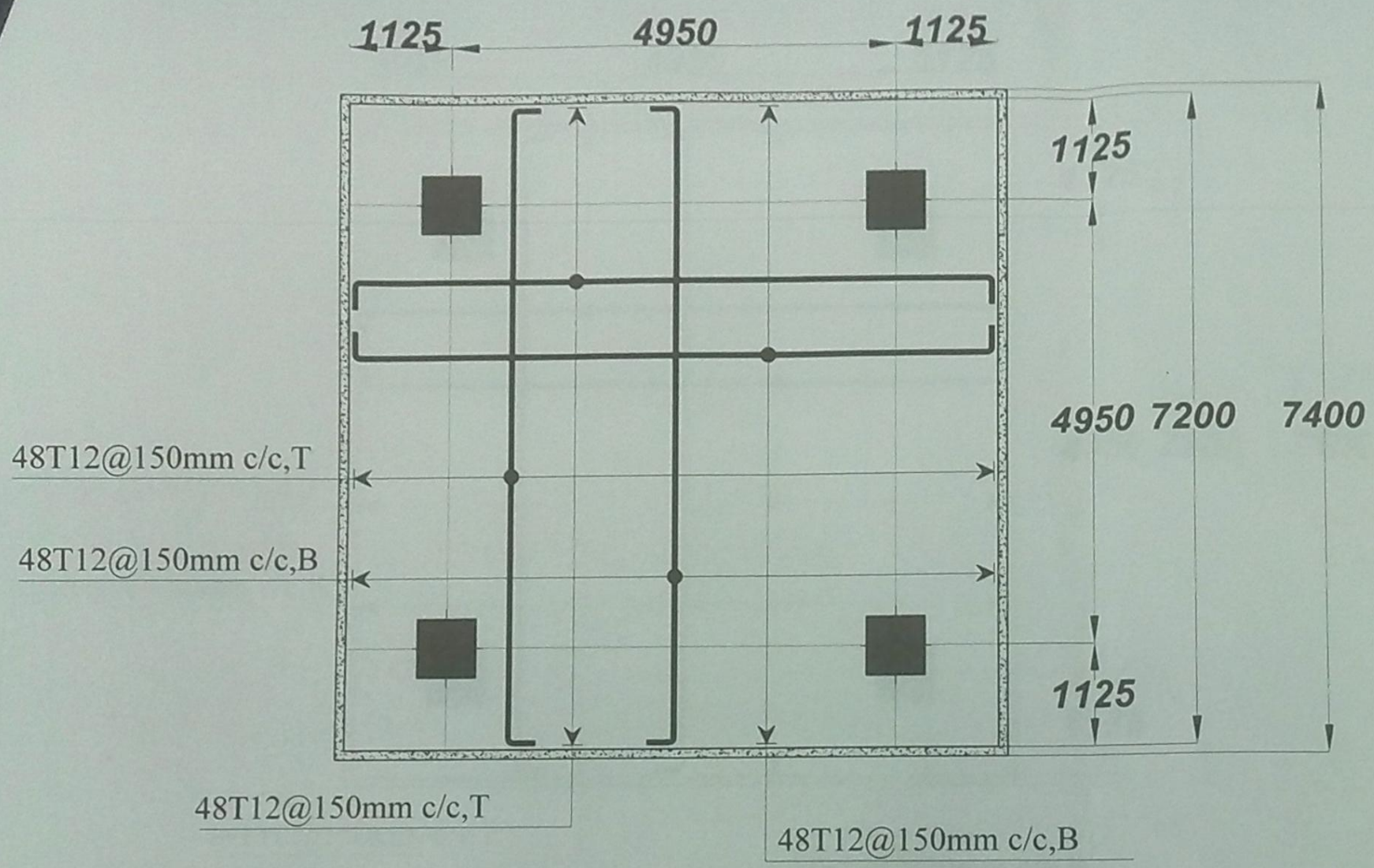
CLIENT

sudatel سودانل

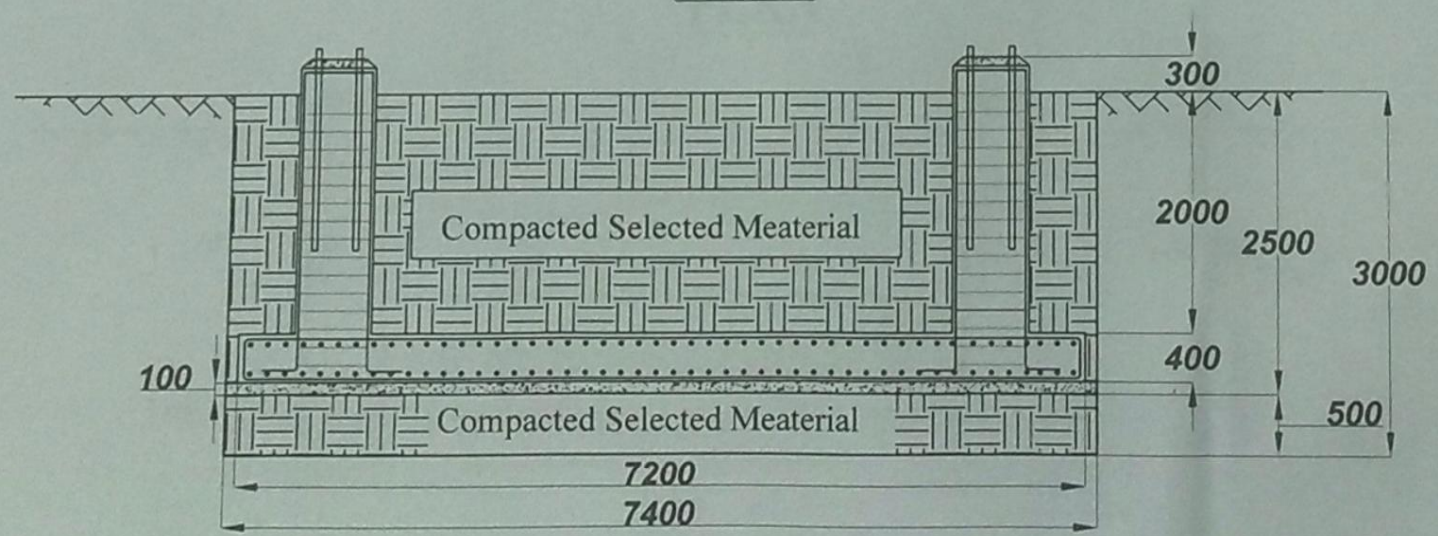
CONTRACTOR

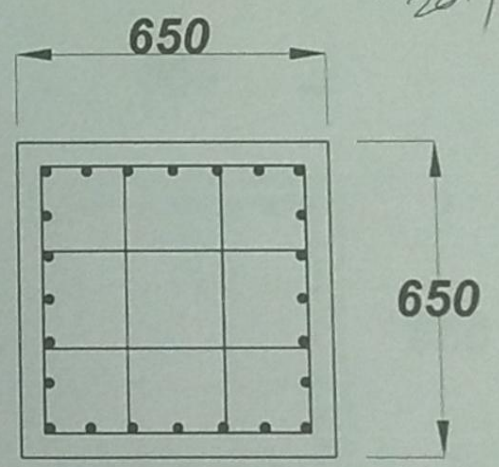
DIRECTPOINT

SUBCONTRACTOR



PLAN





Column

NOTES

1. Design code of practice BS8110.
2. All Dimension Shown Herein are in Millimeters (mm),Unless Otherwise Noted and all Levels are in Meters (m).
3. The Drawing is to be Read in Conjunction With the Relevant Architectural Drawings and Other Relevant Information.
4. Any Inconsistency Shall be Brought to Attention of the Engineer Before Commencement of Work.
5. Steel Grade 460N/mm ' for Main Reinforcement & 250N/mm ' for Links Reinforcement.
6. Concrete Cover for all Structure Element as the Table Below.

ELEMENTS	SIDE	TOP	BOTTOM
FOUNDATION	50	50	50
COLUMNS			
BEAMS			
SLAB			
WALL			

7. Concrete Strenght = 25N/mm2

-For Type of Reinforcement:
- R= Mild Steel Bar.
- T= High Tensile Steel Bar.

-For Replacemnet of Reinforcement for slab &beams:
- B= BOTTOM FACE.
- T= TOP FACE.

-For Replacemnet of Reinforcement for walls & column:
- N= NEAR FACE.
- F= FAR FACE.

-For Arrngement of Reinforcement :
- Alt.= Alternate.
- Stg.= Staggered.
- a.b.=e Alternate Bars Reversed.

N

AZC
علي زروق وشركاه الاستشاريه المحدوده
ALI ZAROUG &PARTNERS CONSULTANCY CO.LTD
MASHTL STREET,ALRYAD,KHARTOUM,SUDAN

PROJECT TITLE:	SUDATEL -TOLAN 45 TOWER
DRAWING TITLE:	FOUNDATION FOR BEARING CAPACITY 100KN/M2
DESIGNED BY:	Dr.Ali Zaroug Eng.Asim Abkreec
APPROVED BY:	Dr.ALI ZAROUG
DRAWN BY:	Eng.DORRIYA AWAD ELSHARIF
SCALE:	
DATE:	JAN . 2014
SHEET NO:	S-01
REVISION NO:	00

Raaf 22/1/2014