

CF-40m

Site ID	FRH-048	تاریخ سروی	8/03/2026
New Lat	32.39821	New long	62.03701
Site Location Name (Khatyawan Village) قرية خاتوان			
District		Province	
مركز		FARAH	
TX connectivity data	Front Site ID	New Repeater needed?	
Type of Property	Private?	Gov?	NA?
Primary agreement with owner done?	Yes		
Property owner contact			
Contract Agreement Negotiated?	Yes:	No:	Ongoing:
Site type	RT:		
Desert level	Hill	Mountainouse	City
Land type		Rural	Rocky
Access Road available	Yes:	No:	
Access road needed	Length:	Width:	
Needed tower type	GF	Yes	GM
Needed tower height	30m	Yes	RT
Boundary wall needed			
Boundary wall length			
Guardroom needed			
Toilet/Washroom			
Wall Fence needed			
Comments about access	road		
Location photo record	General view	Panaromic (45°) 8 photos	Access road Direction
Surveyer details(name contact...etc	0702381714	عبدالحجید "ابودر" ریس مجازات ولایت فراه	0700693212
	0744858560	حافظ شيخ الرحمن "عمري" مدير اترا	0744858560
General Comments:	نخب الله "نخب" رسول ولائی افغان تیلی فون		

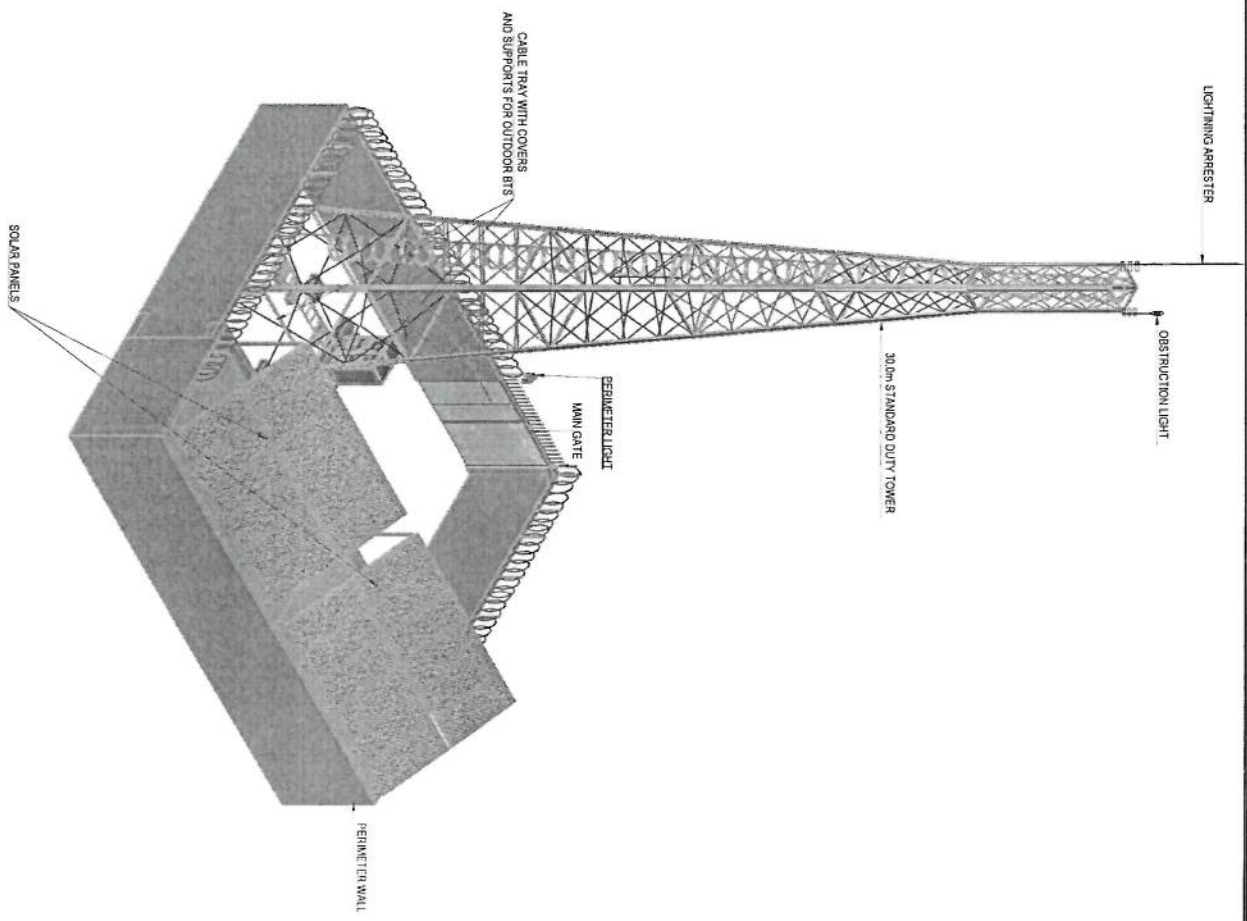
جدول سروی ساحات جدید برای ساتلای افغانستان

**STANDARD DRAWING
DETAILED DESIGN DRAWING**

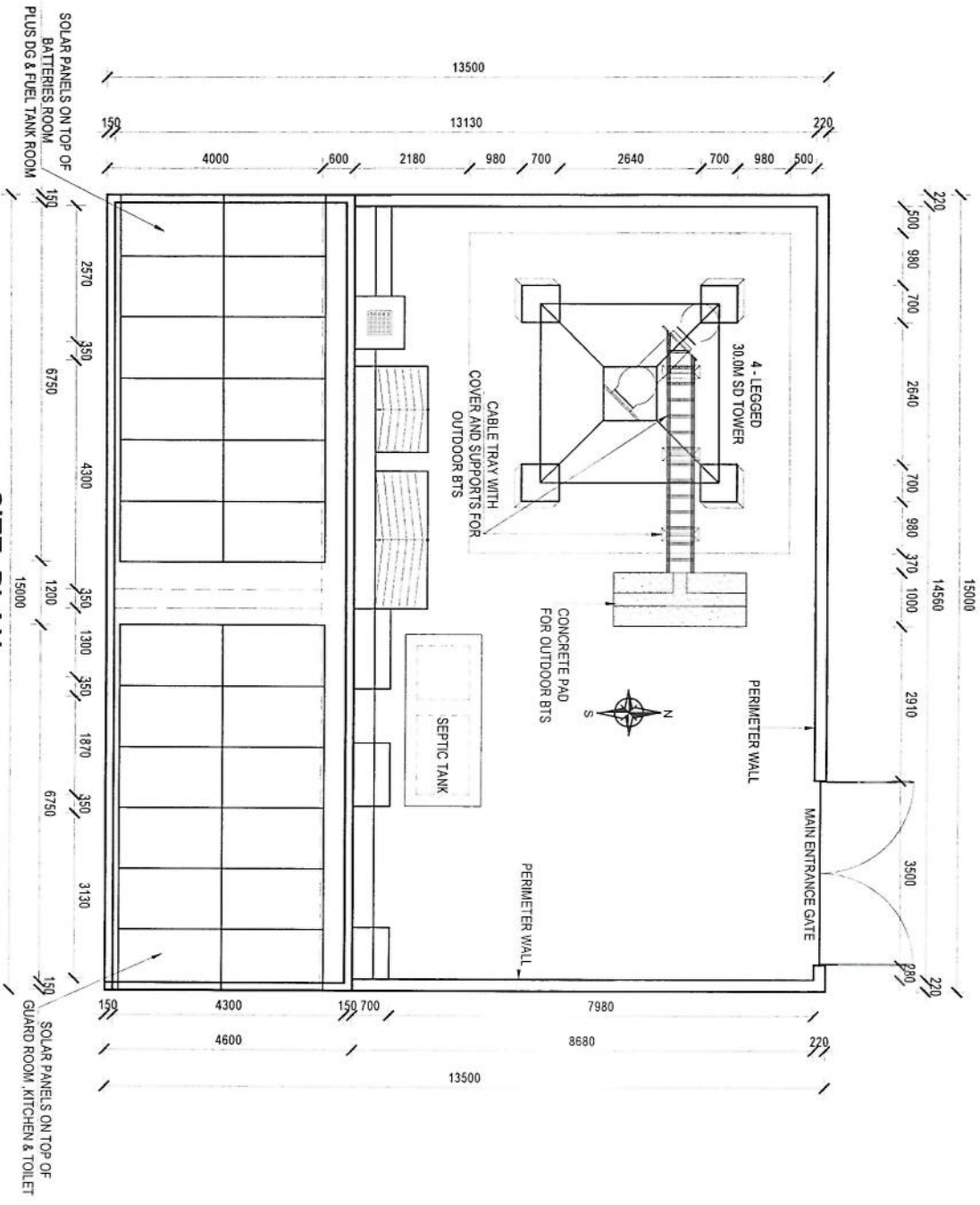
~~STANDARD~~

TOWER HEIGHT: 30m, 50 TO 60m

Handwritten signature



PERSPECTIVE
SCALE: 1:100

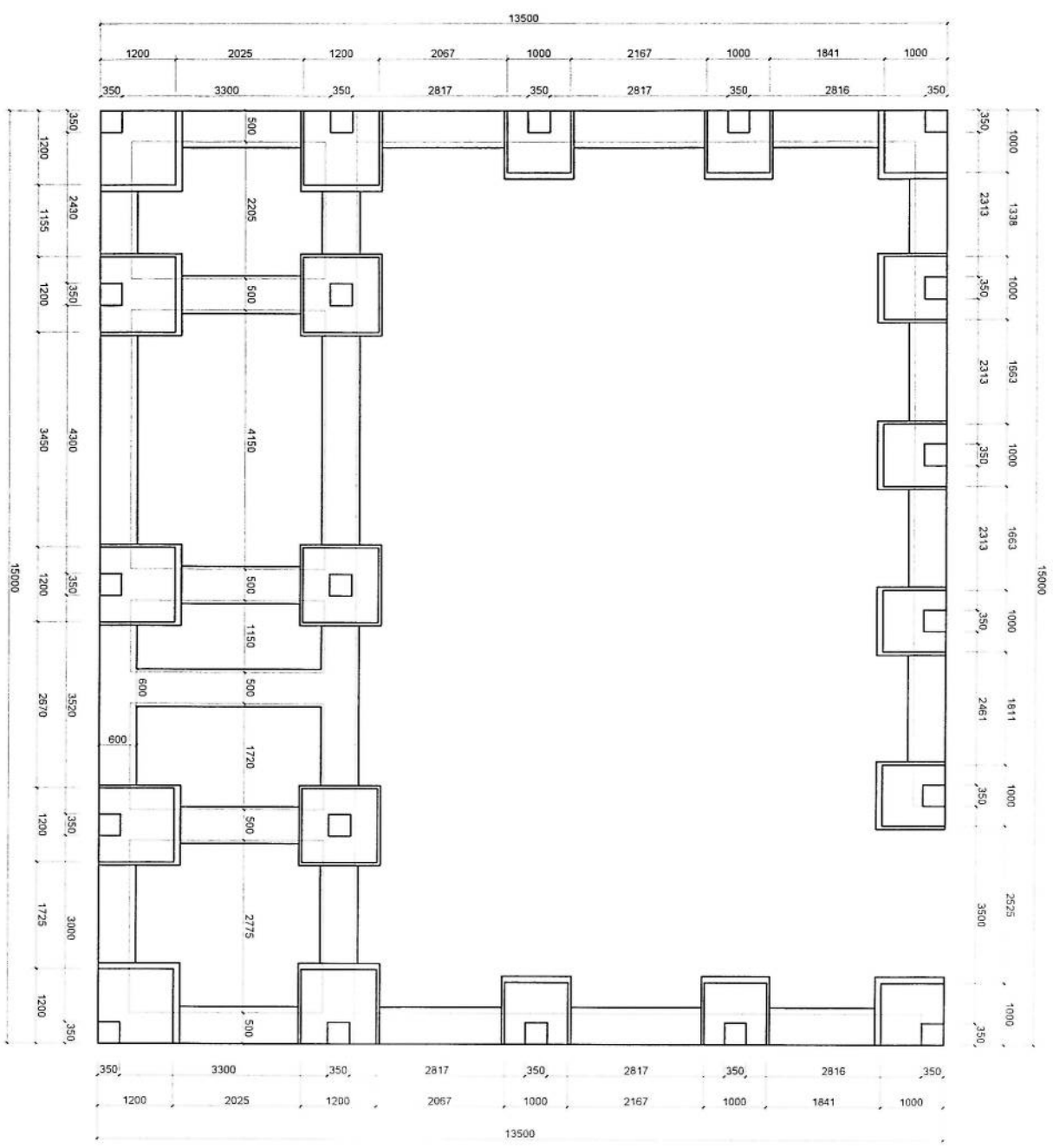


SITE PLAN

SCALE: 1:150M.

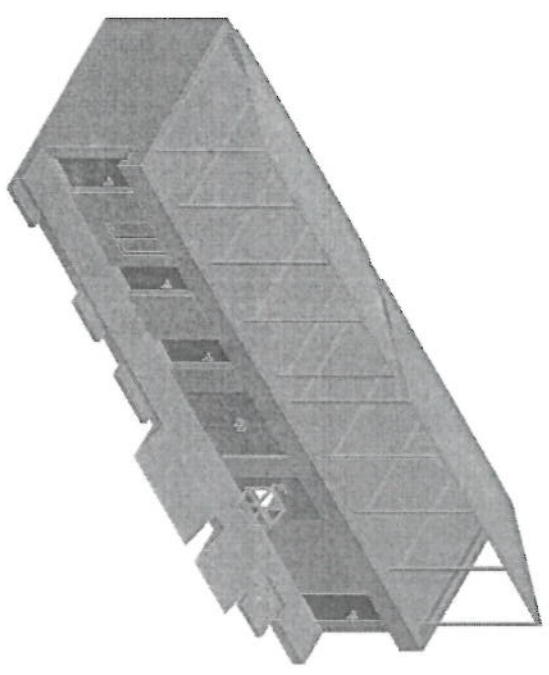
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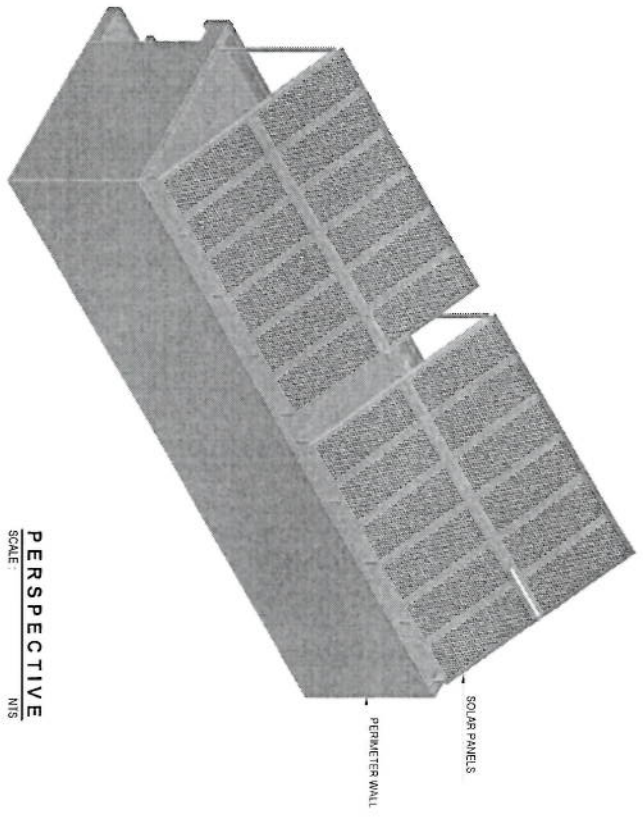


FOUNDATION PLAN
SCALE: 1:125

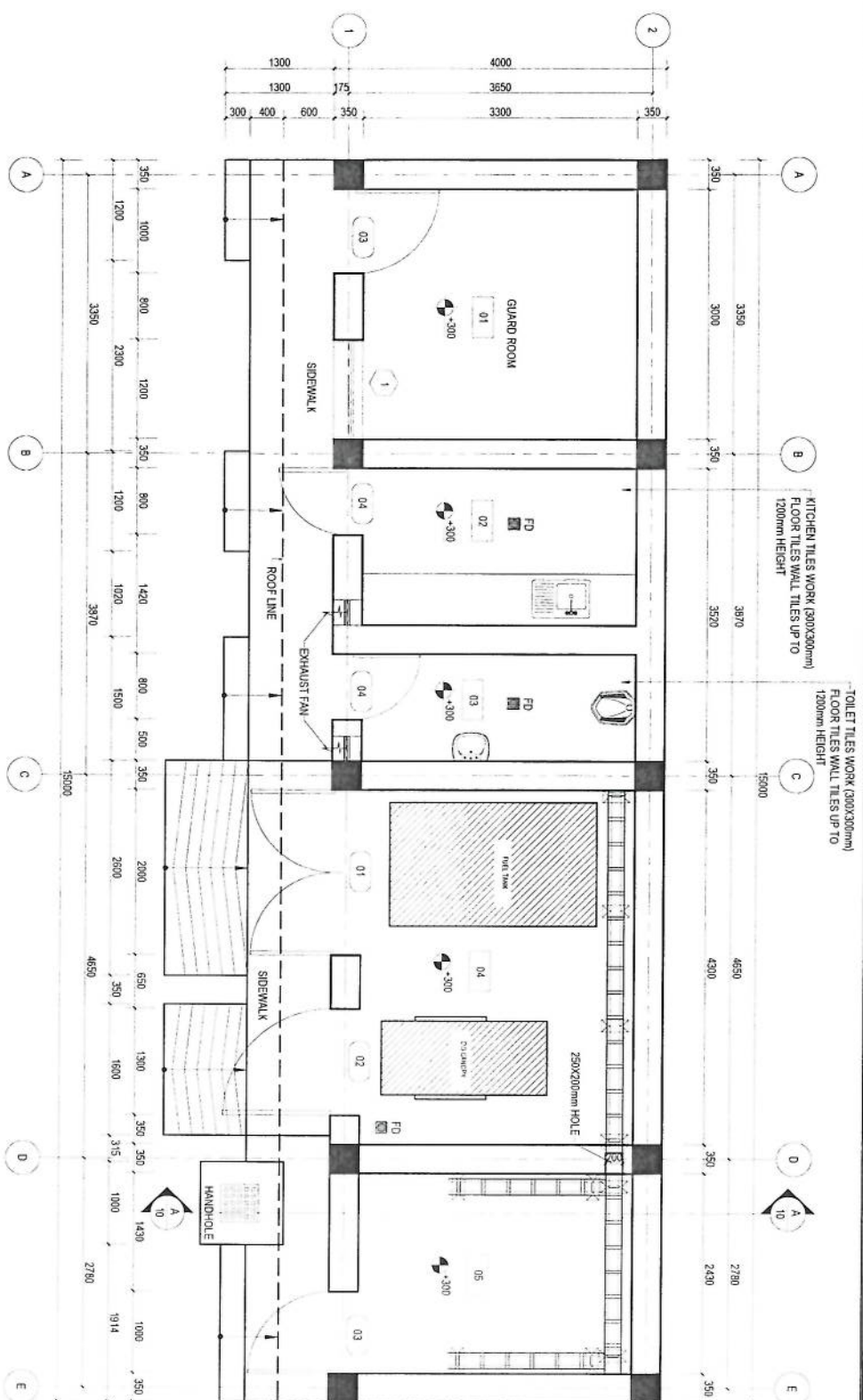
Handwritten signature or initials in blue ink.



PERSPECTIVE
SCALE: 1/8" = 1'-0"



PERIMETER WALL
SOLAR PANELS



NOTE
1. ALL DIMENSIONS ARE IN MM AND ANGLES IN DEGREES UNLESS OTHERWISE NOTED.

FLOOR PLAN
SCALE: 1/80

HATCH LEGEND

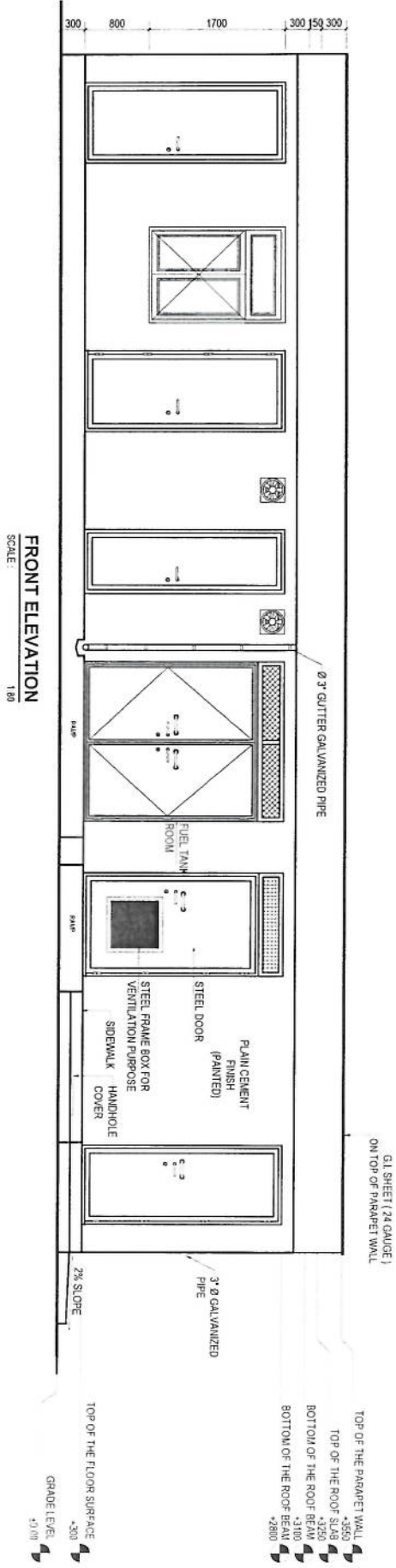
- PLAIN CONCRETE CEMENT
- BRICK WORK
- OVERHEAD STRUCTURE
- REINFORCEMENT COLUMN

ROOM LEGEND

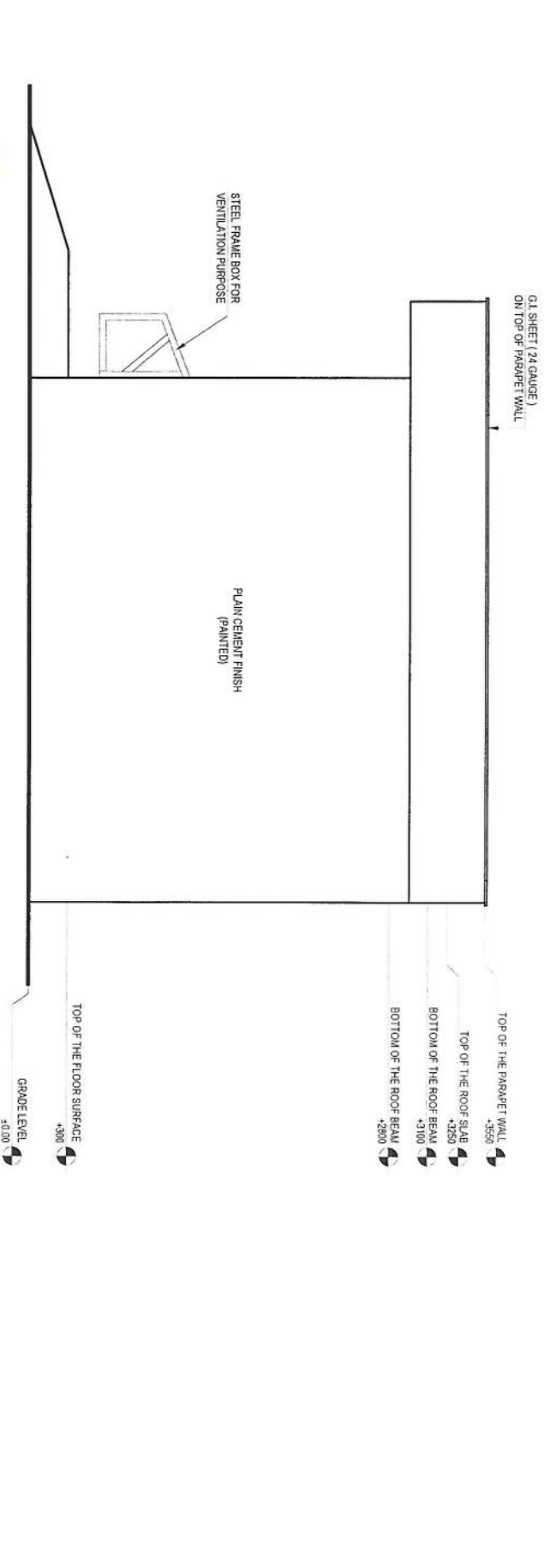
- 01 GUARD ROOM
- 02 KITCHEN
- 03 TOILET
- 04 FUEL TANK AND DOG ROOM
- 05 BATTERIES ROOM

- DW DOWN
- FD FLOOR DRAIN
- ELEVATION

[Handwritten signature]

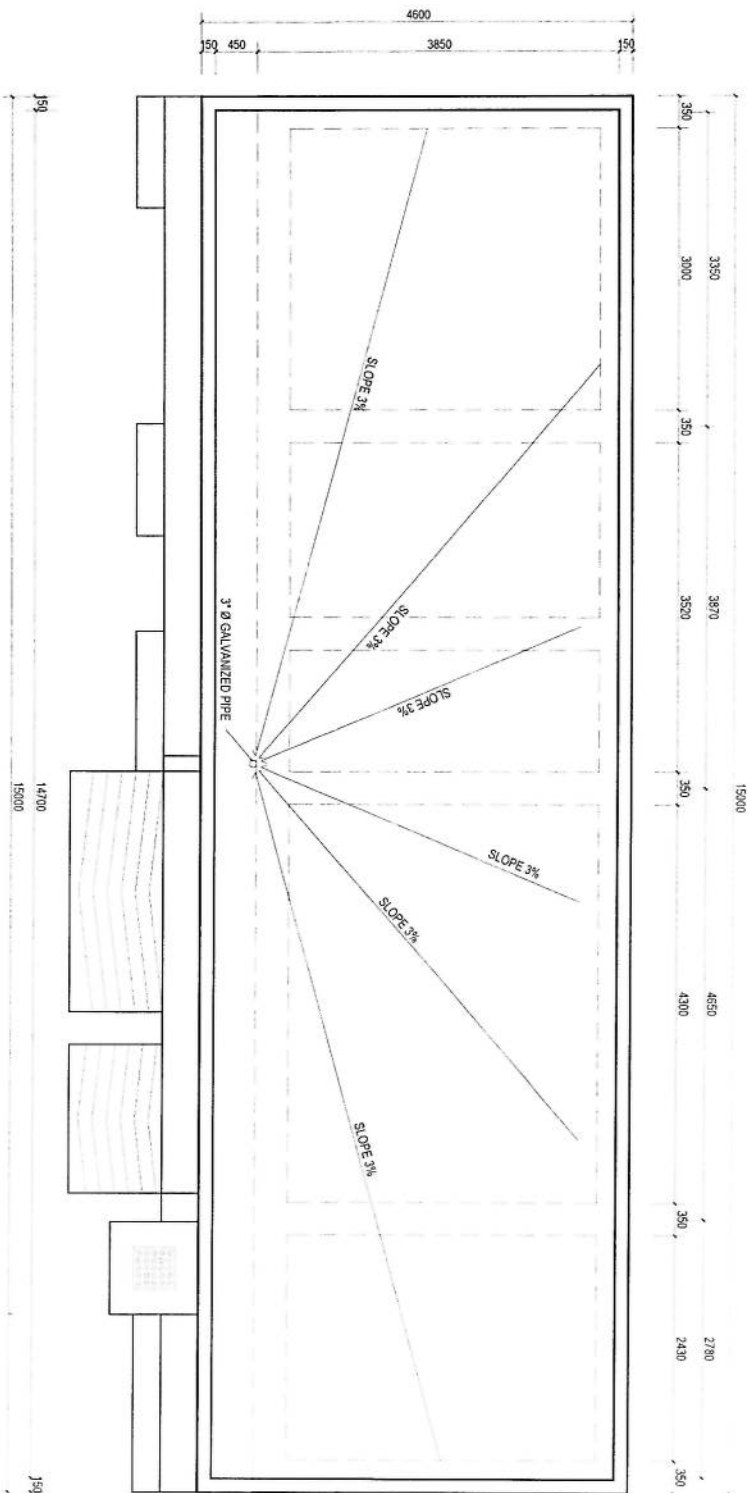


FRONT ELEVATION
SCALE: 1/80



RIGHT ELEVATION
SCALE: 1/50

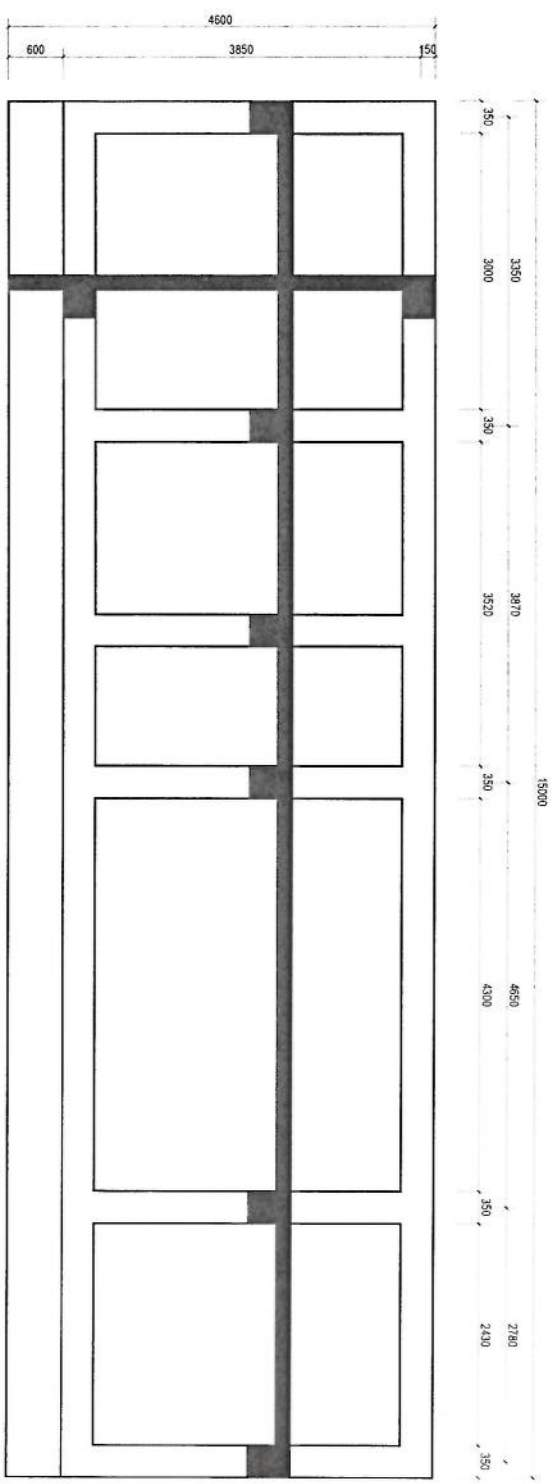
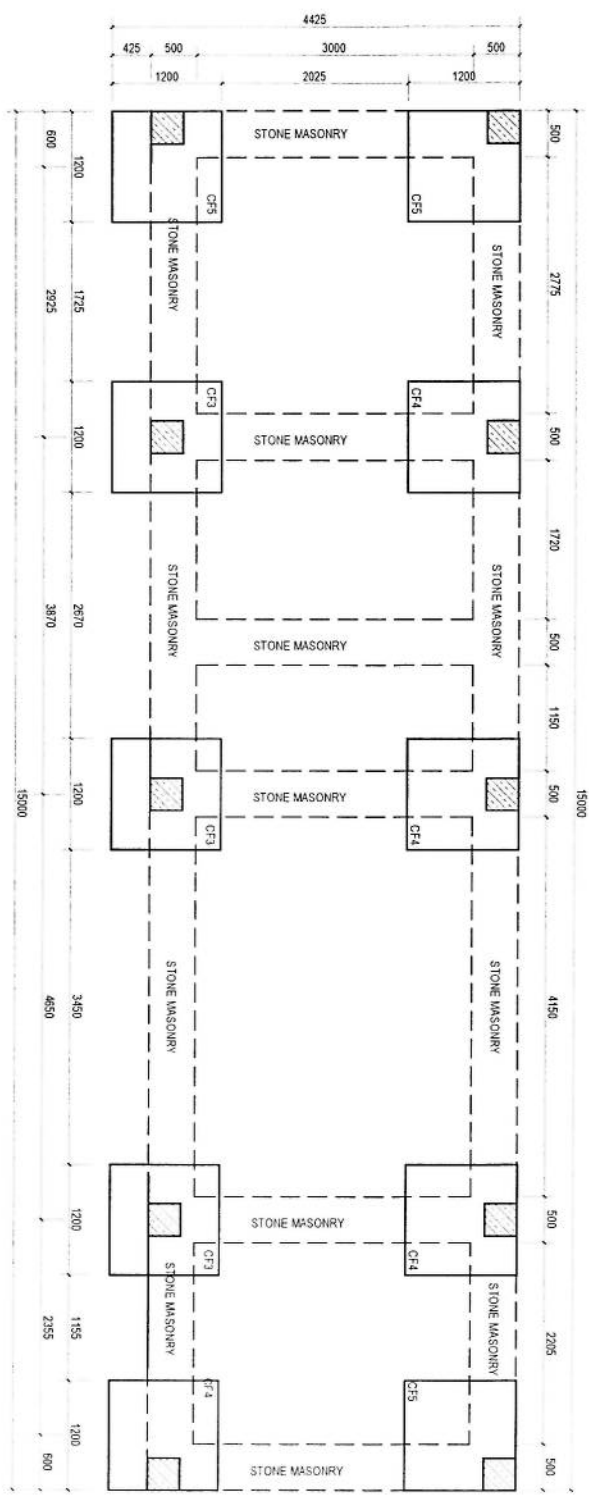
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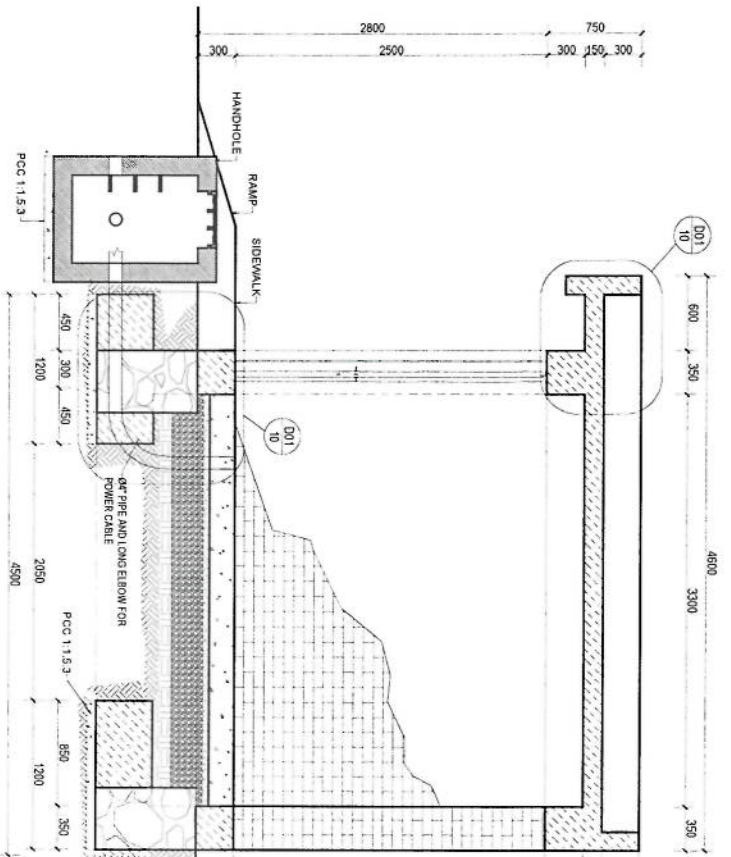
ROOF PLAN
SCALE: 1:80

- NOTE
1. ALL DIMENSIONS ARE IN MM AND ANGLES IN DEGREES UNLESS OTHERWISE NOTED.
 2. ROOF SLOPE 3%

Handwritten signature in blue ink.



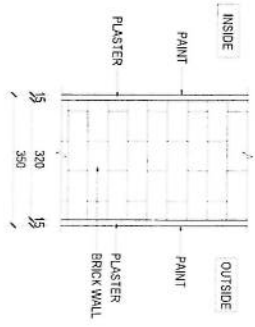
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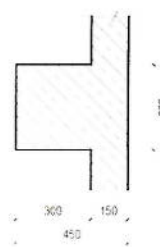
SECTION H-H
SCALE: 1/80



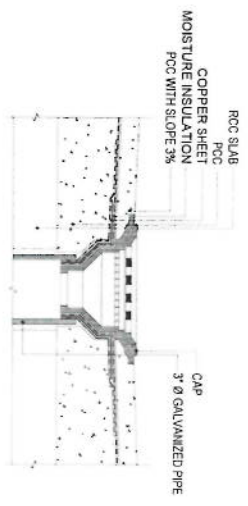
WALL DETAIL
SCALE: 1/20



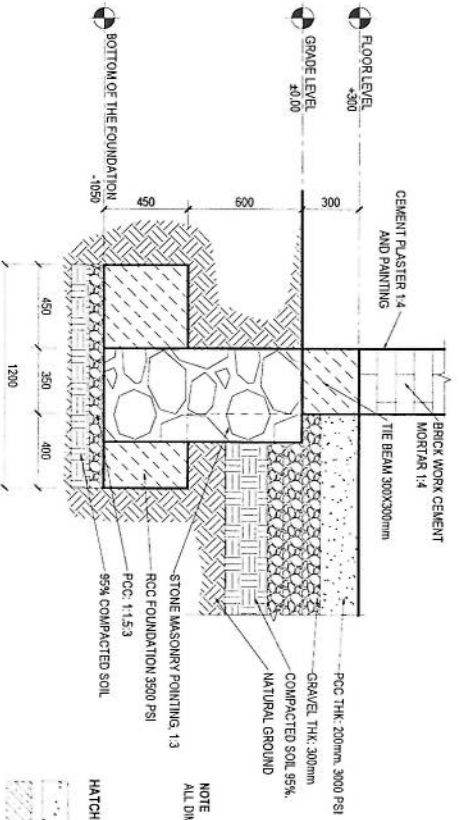
ROOF DETAIL D02
SCALE: 1/40



ROOF DETAIL D02
SCALE: 1/30



GUTTER PIPE DETAIL
SCALE: 1/5



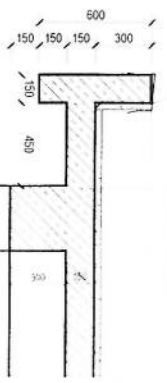
DETAIL D01
SCALE: 1/40

NOTE
ALL DIMENSIONS ARE IN MM AND ANGLES IN DEGREES UNLESS OTHERWISE NOTED.

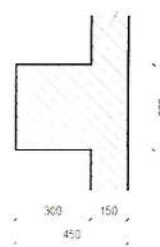
HATCH LEGEND

- PLAIN CONCRETE CEMENT
- REINFORCEMENT CONCRETE CEMENT
- OVERHEAD STRUCTURE
- BRICK SECTION
- BRICK PLAN
- ELEVATION
- REINFORCEMENT COLUMN
- DOWN

RCC 50mm THK
IS70GM DEFLAYER 4mm 11W
RCC SLAB 150mm
PLASTER 20mm

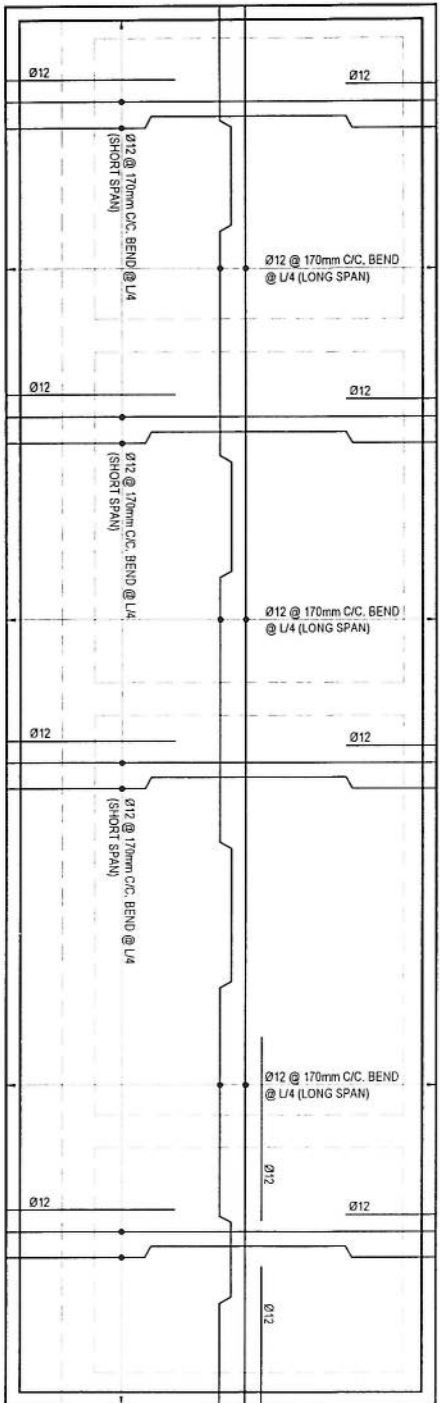


ROOF DETAIL D02
SCALE: 1/40

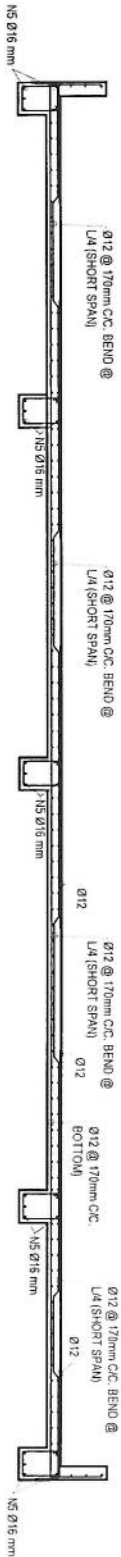


ROOF DETAIL D02
SCALE: 1/30

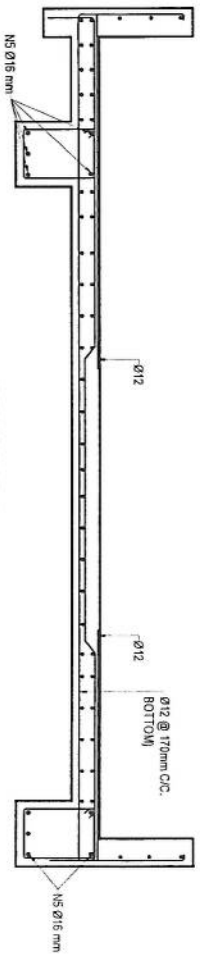
Handwritten signature and date: 10/10/20



ROOF SLAB REINFORCEMENT PLAN
SCALE: 1:80



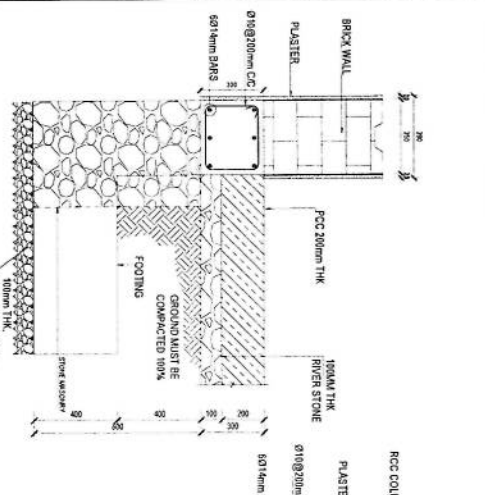
ROOF SLAB SECTION
SCALE 1:80



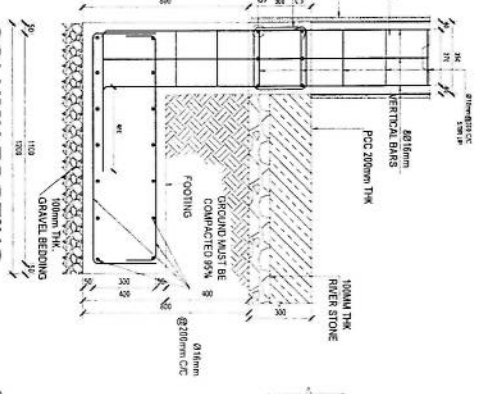
SECTION G-G
SCALE: 1:40

- NOTE**
1. CONCRETE MAX RATIO SHOULD BE SUCH THAT 28 DAYS STRENGTH MUST BE $f_c \geq 3000$ psi
 2. DEFORMED BAR OR GRADE 60 (W-48000) psi
 3. MINIMUM CLEAR COVER TO REINFORCING STEEL: 30 mm
 4. VIBRA OR MIXTURE MACHINE SHOULD BE USED IN CONCRETE CASTING.
 5. CORNER REDUCTION SHOULD BE DONE WITH CLOSED SUPERVISION OF AMCC SITE ENGINEER.

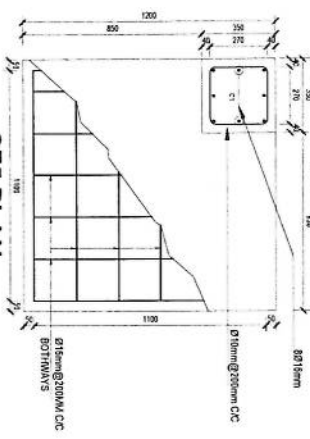
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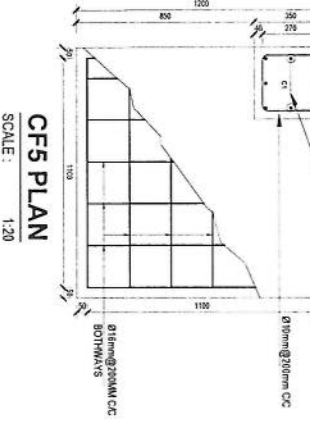
COLUMN FOOTING
SCALE: 1:20



COLUMN FOOTING
SCALE: 1:20



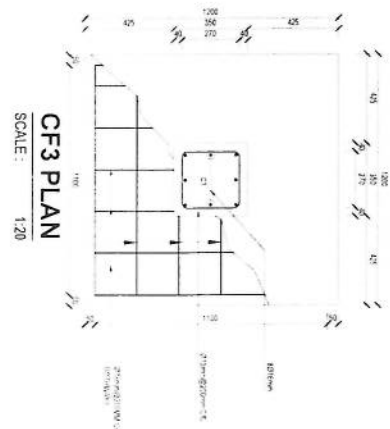
CF5 PLAN
SCALE: 1:20



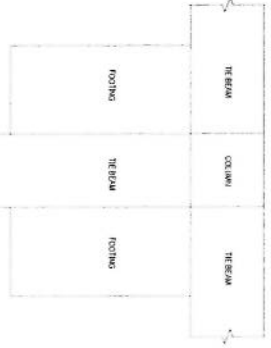
CF5 PLAN
SCALE: 1:20



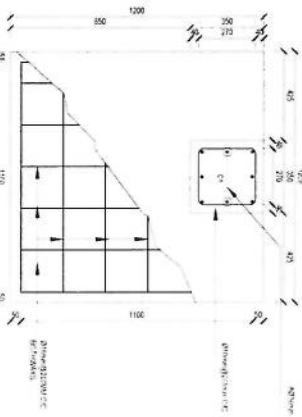
CF3 PLAN
SCALE: 1:20



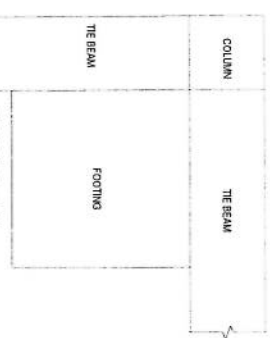
CF3 PLAN
SCALE: 1:20



CF4 PLAN
SCALE: 1:20



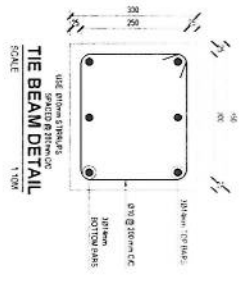
CF4 PLAN
SCALE: 1:20



CF5 PLAN
SCALE: 1:20

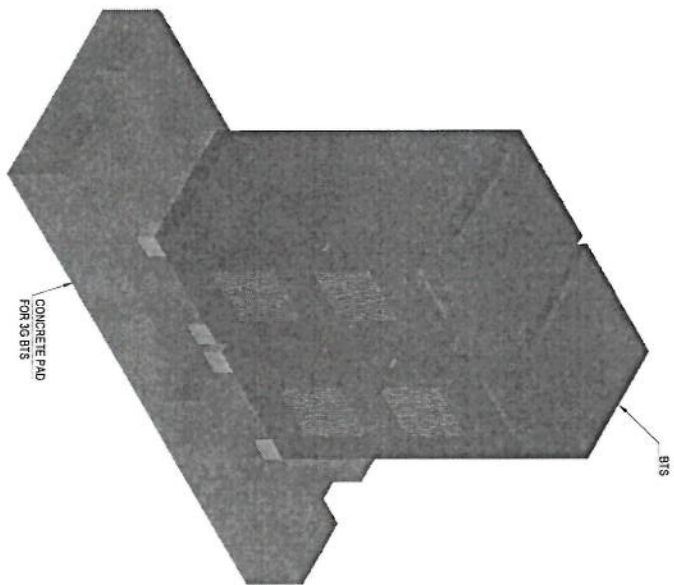


CF5 PLAN
SCALE: 1:20

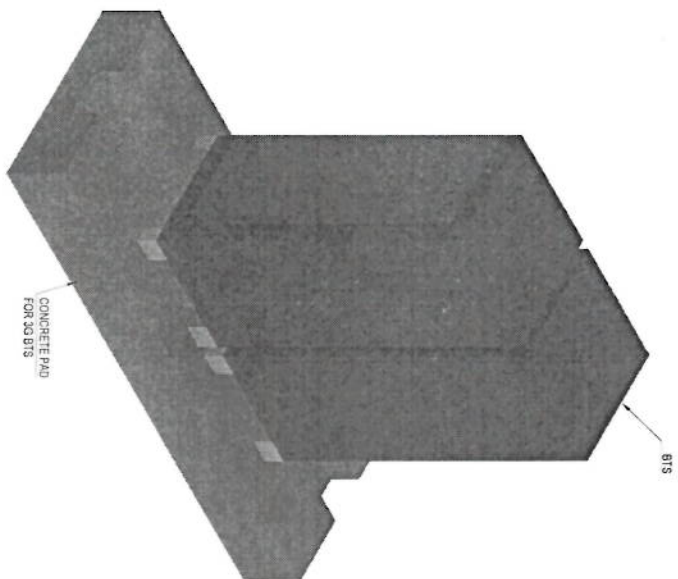


TIE BEAM DETAIL
SCALE: 1:10

Handwritten signature and notes in blue ink.

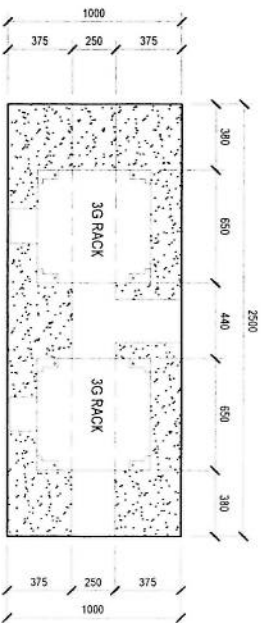
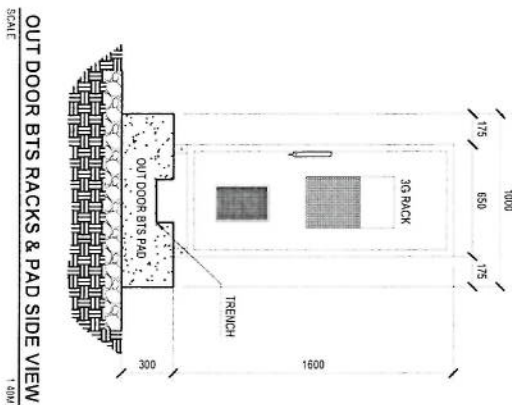
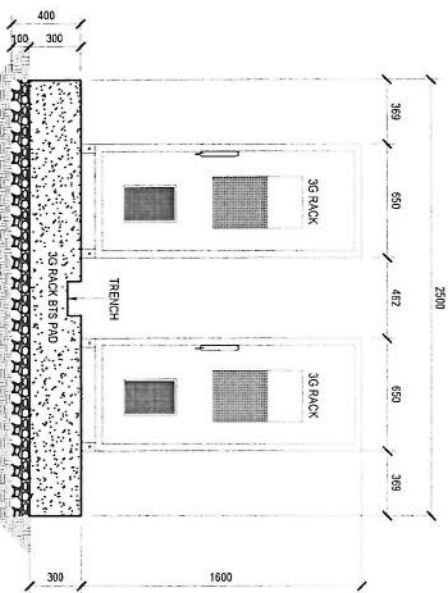
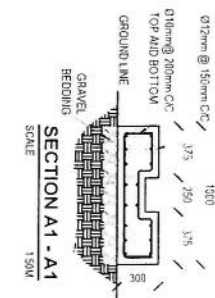
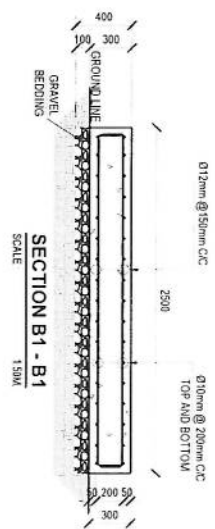
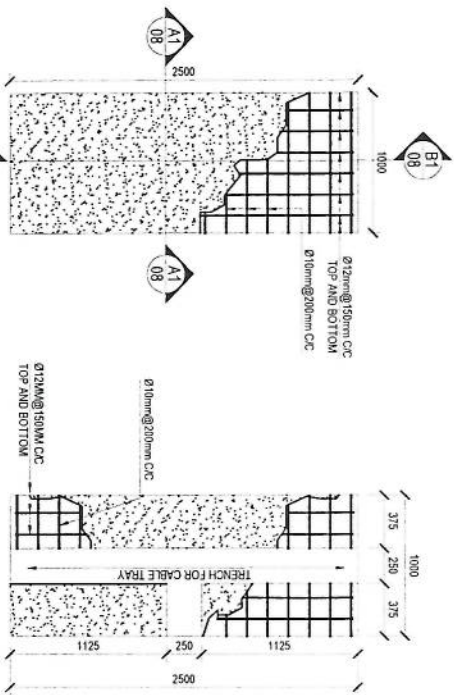


3D VIEW PLAN
SCALE: 1/8" = 1'-0"

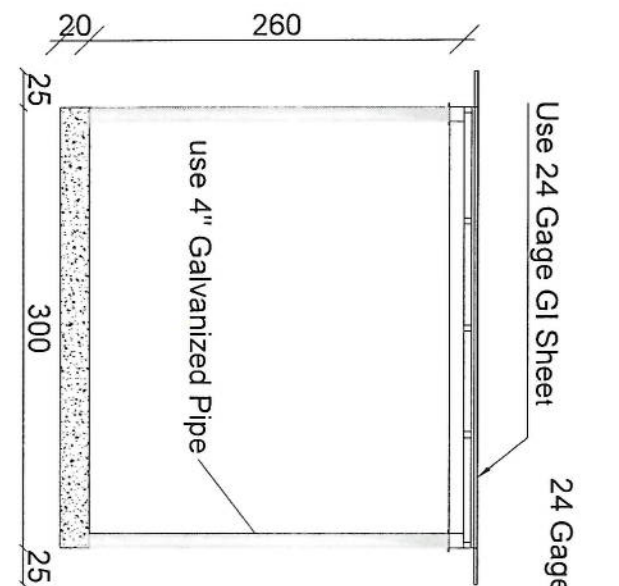


3D VIEW PLAN
SCALE: 1/8" = 1'-0"

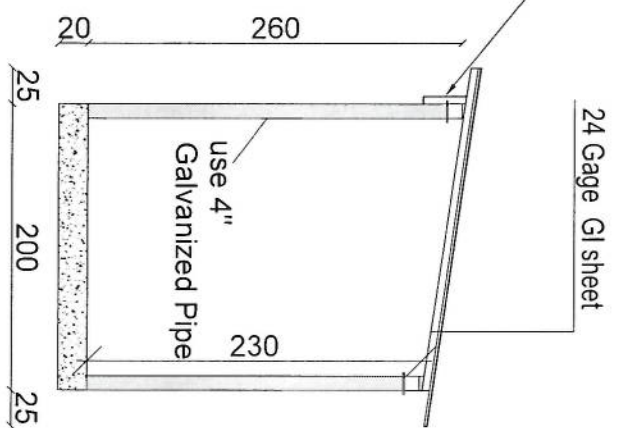
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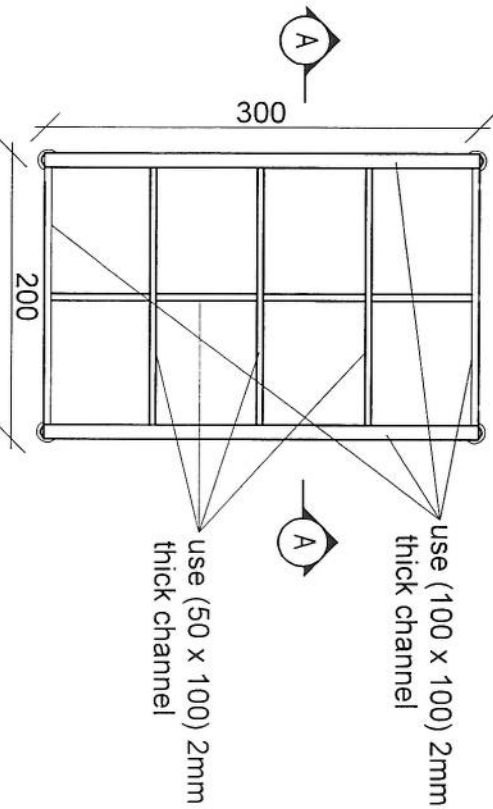
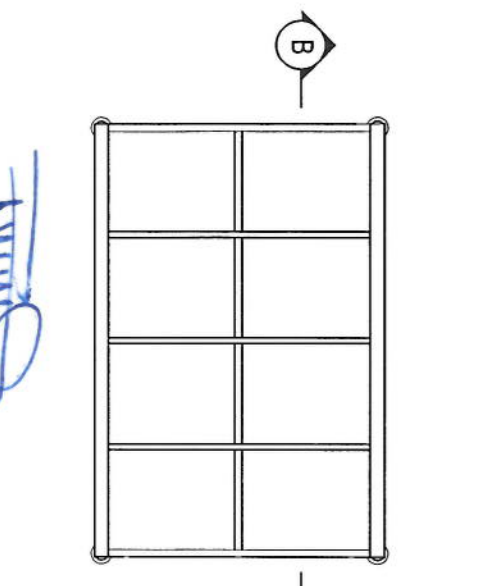
SMITH



Section BB



Section AA



REVISION RECORDS	
NO.	DATE



LEGEND:

PROJECT TITLE / NO. GSM SITES

DRAWING TITLE: SUN SHELTER FOR ZTE BTS

DRAWN BY: CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE: 1:50

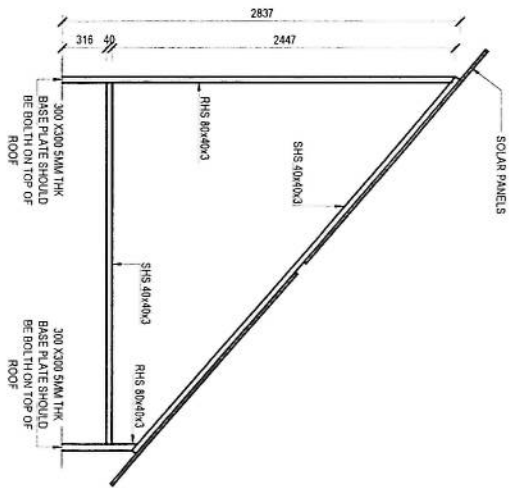
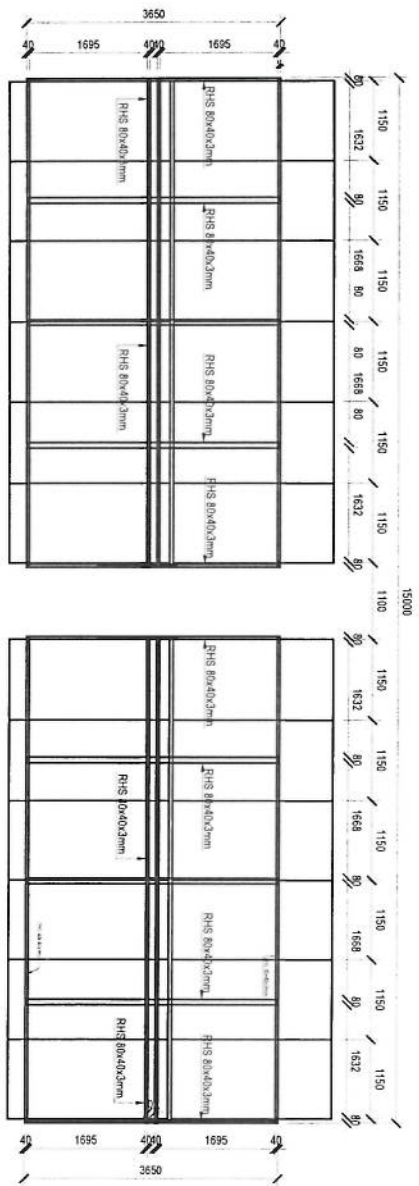
ACTUAL DATE: 17.04.2025

ISSUE DATE:

DRG.NO: 17

OWNER: AFGHAN TELECOM

SALEM TELECOMMUNICATION COMPANY

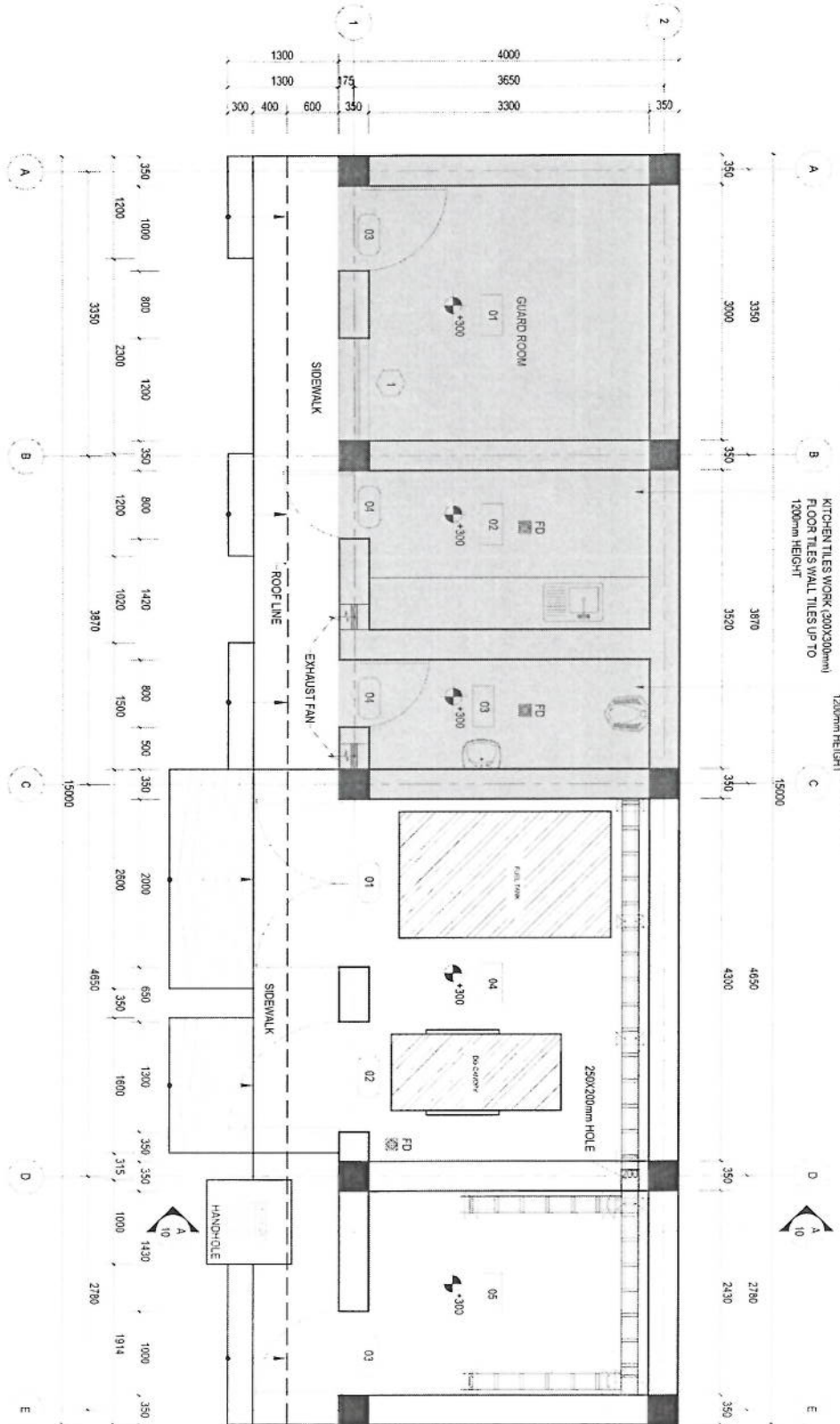


BAUER

روی این پایه ها نصب گردد

KITCHEN TILES WORK (300X300mm)
FLOOR TILES WALL TILES UP TO
1200mm HEIGHT

TOILET TILES WORK (300X300mm)
FLOOR TILES WALL TILES UP TO
1200mm HEIGHT



NOTE
1. ALL DIMENSIONS ARE IN MM AND ANGLES IN DEGREES UNLESS OTHERWISE NOTED.

FLOOR PLAN
SCALE 1/80

HATCH LEGEND

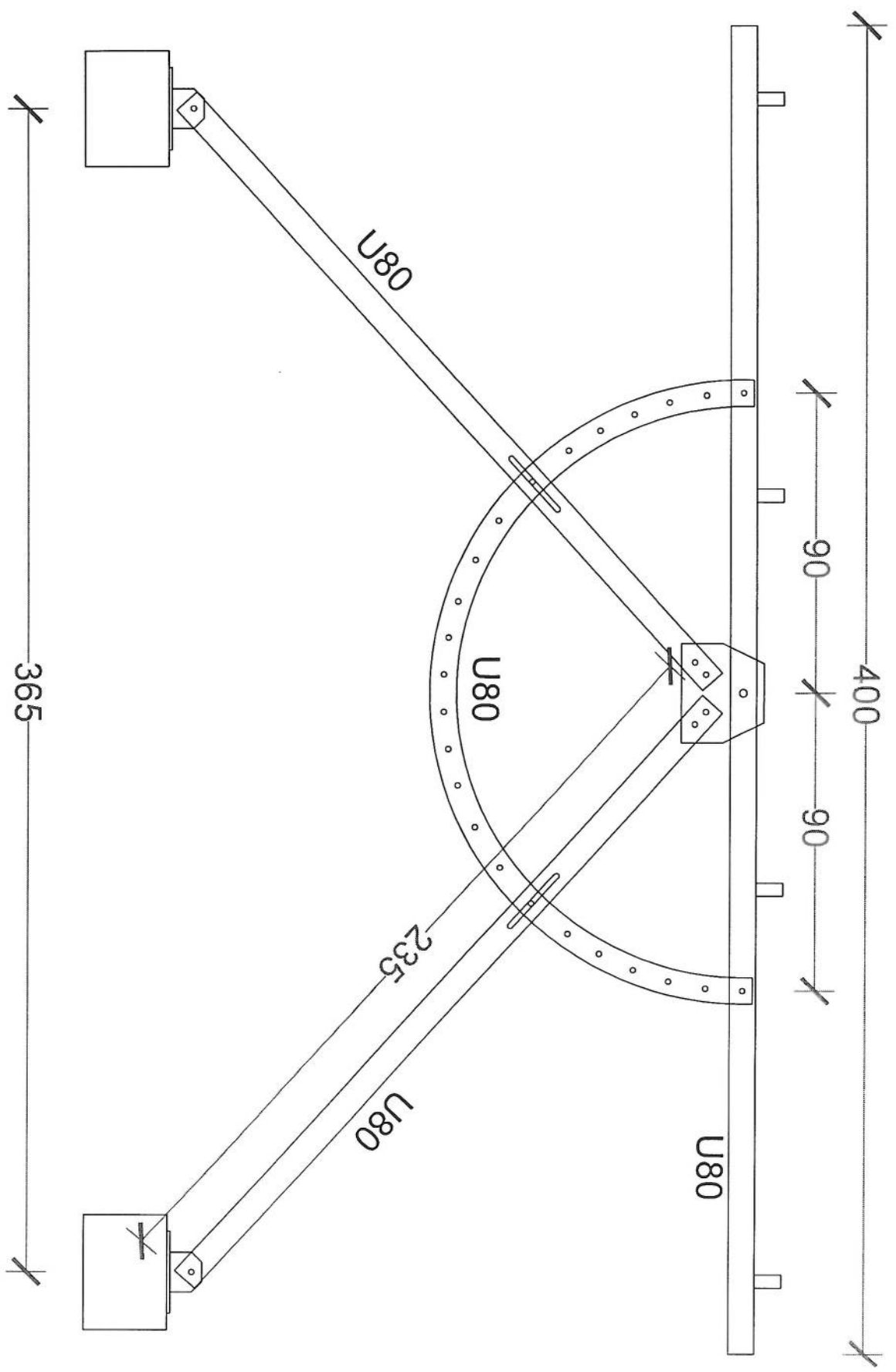
- PLAIN CONCRETE CEMENT
- BRICK WORK
- OVERHEAD STRUCTURE
- REINFORCEMENT COLUMN

ROOM LEGEND

- 01 GUARD ROOM
- 02 KITCHEN
- 03 TOILET
- 04 FUEL TANK AND DG ROOM
- 05 BATTERIES ROOM

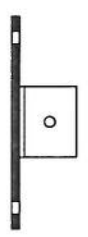
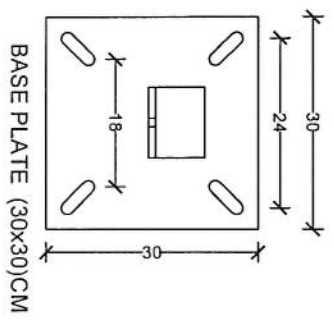
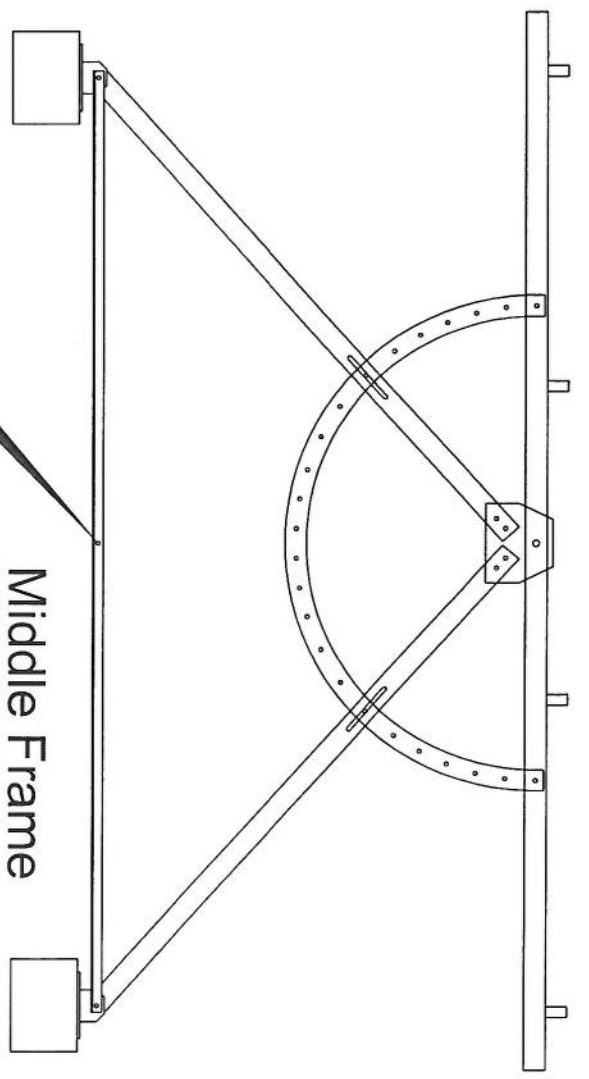
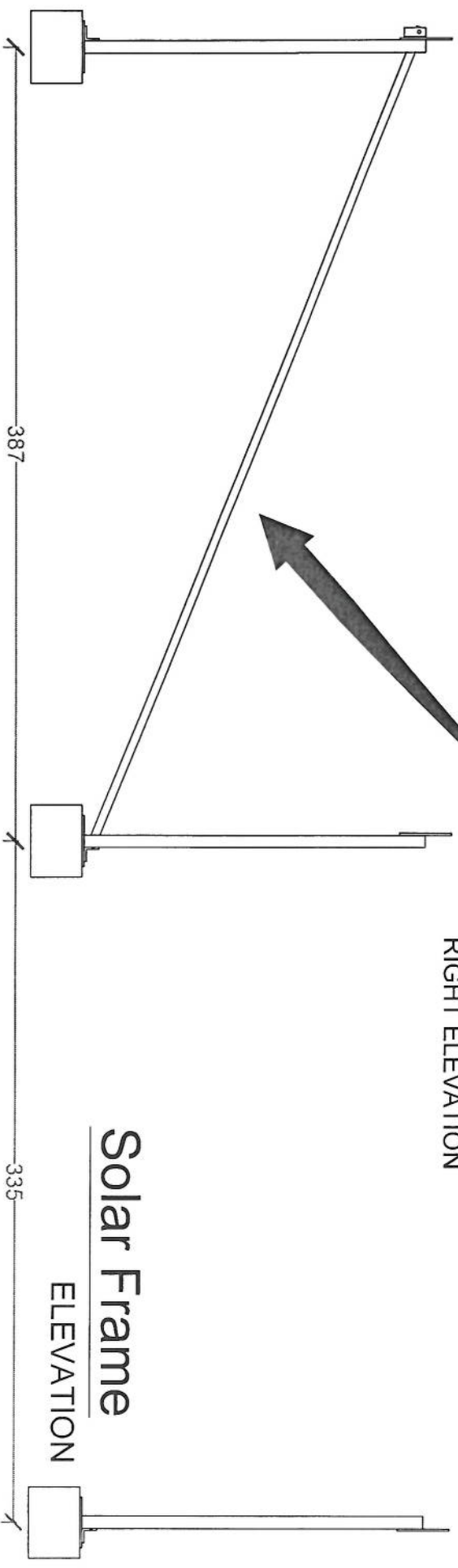
- DW DOWN
- FD FLOOR DRAIN
- ELEVATION

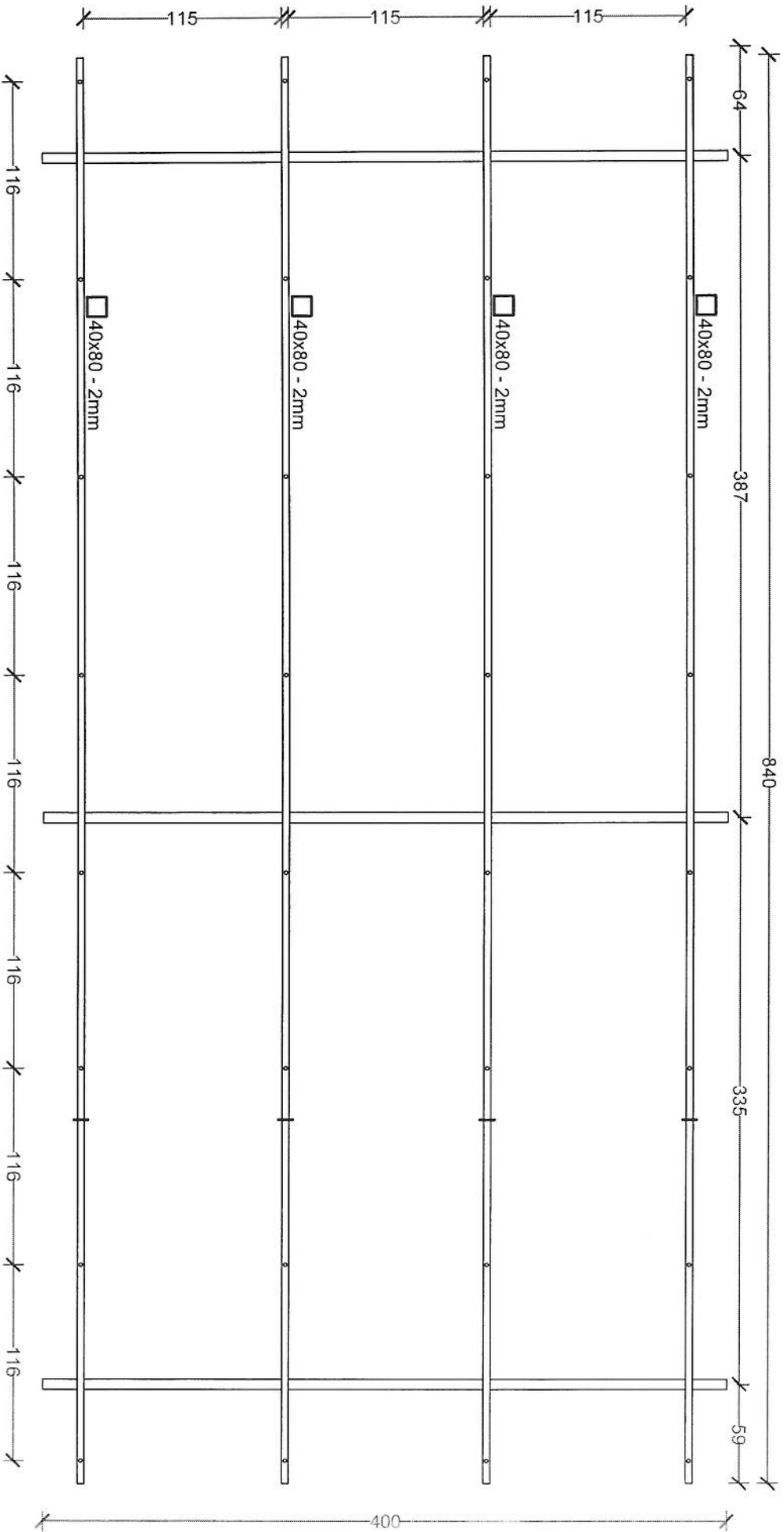
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11/11/2023

AMARIS

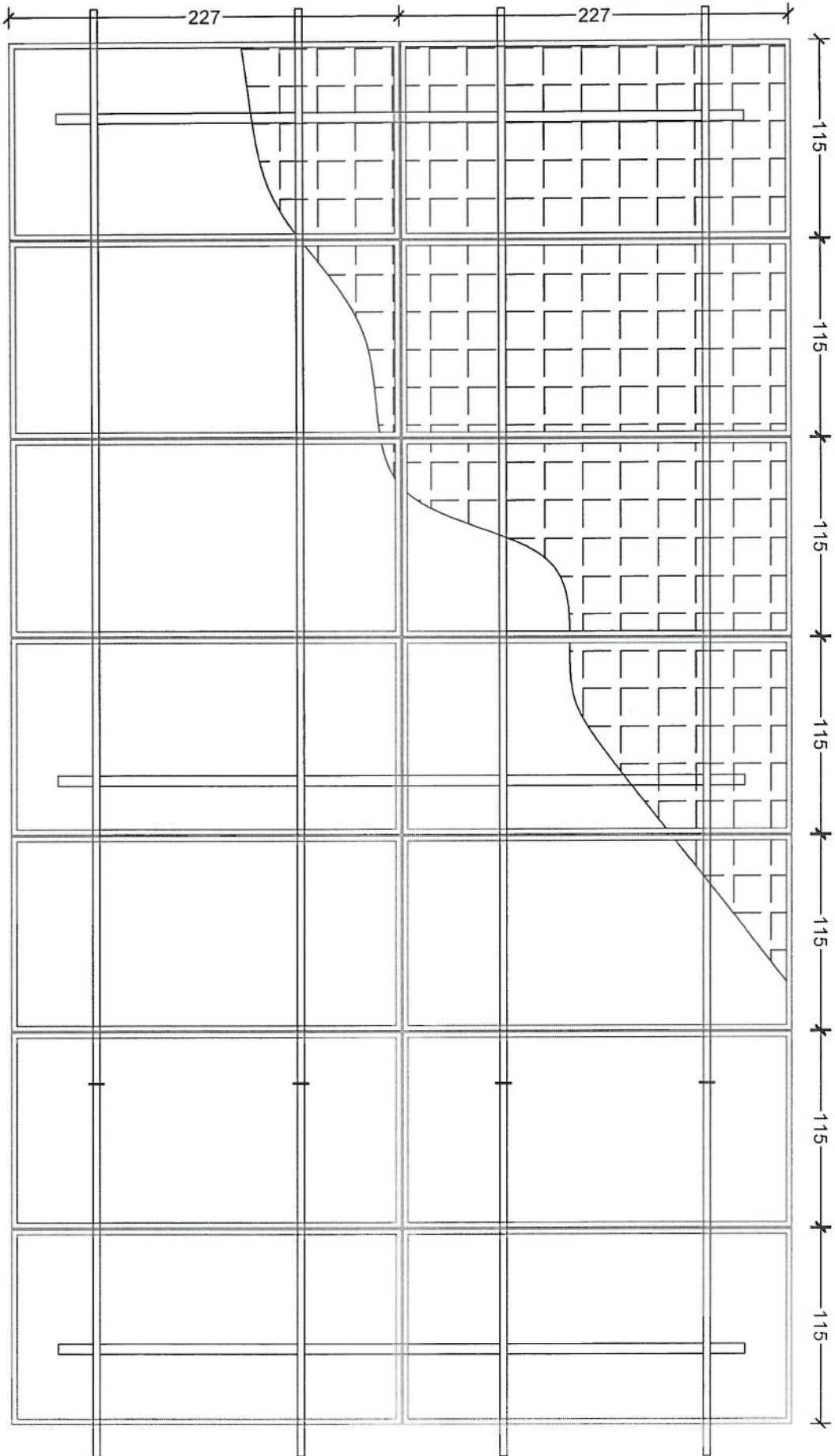




14 Plate Solar

Dimensions (113x227)CM

M. S. S. S.

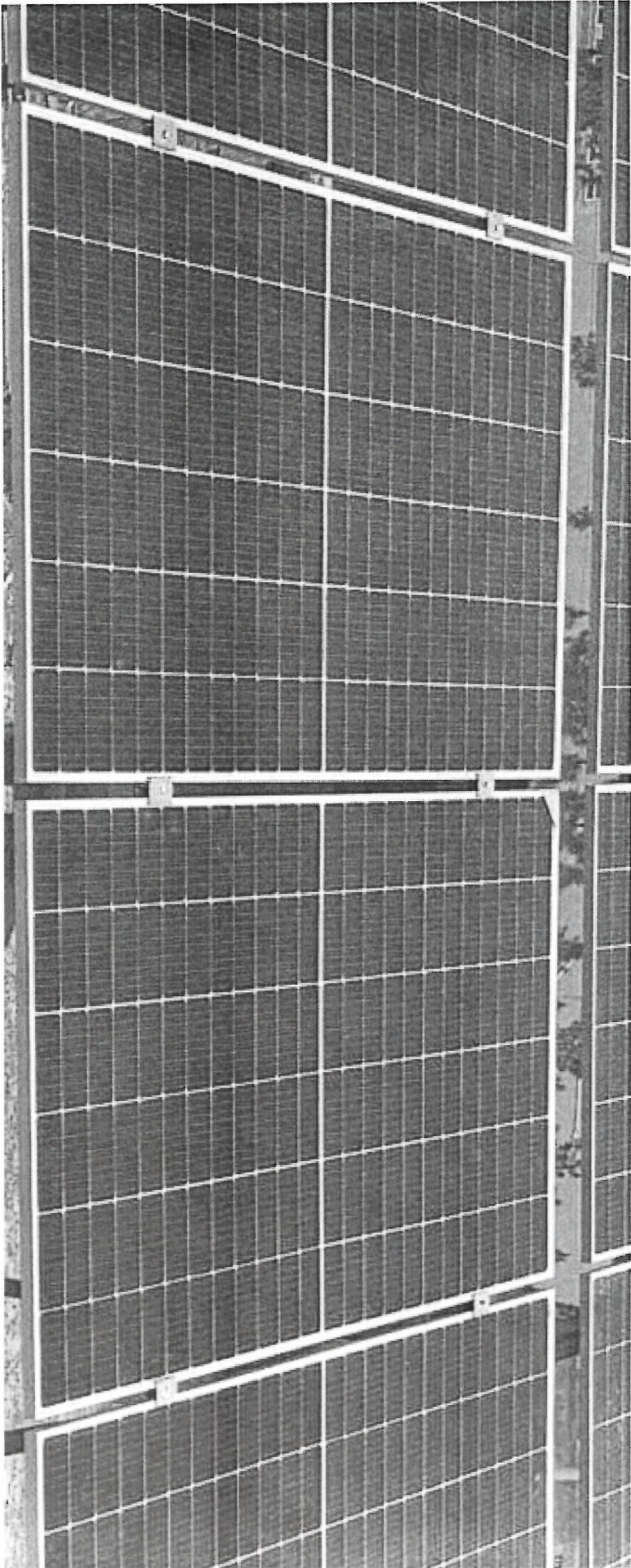


[Handwritten signature]

14 Plate Solar

Dimensions (113x227)CM

11/11/11



Handwritten signature



A
B
C
D
E
F
G

TOWER TYPE "AK1"

LATTICE Tower:40m
Loading-EPA=10 - Wind speed 160km/h

1
2
3
4
5

A B C D E F G



[Handwritten signature]

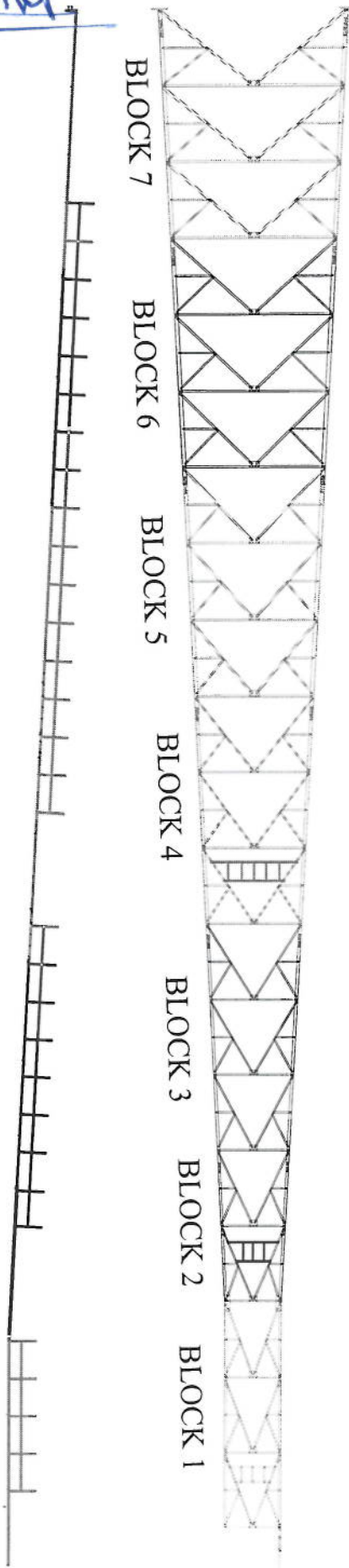
LATTICE Tower:40m
 Loading-EPA=10 -Wind speed 160km/h
 APPROVAL DRAWING
 TOWER TYPE "AK1"

TOTAL WEIGHT IN 40 M G.F TOWER		
BLOCK NO.	BLOCK HEIGHT (M)	WEIGHT
BLOCK 1	6	705.96 Kg
BLOCK 2	4	473.02 Kg
BLOCK 3	6	650.17 Kg
BLOCK 4	6	938.12 Kg
BLOCK 5	6	1036.82 Kg
BLOCK 6	6	1267.39 Kg
BLOCK 7	6	1508.92 Kg
LADDER		740.09 Kg
SUPPORTER		161.29 Kg
BASE		524.41 Kg
TOTAL		8006.20 Kg

G F E D C B A

RED	WHITE	RED	WHITE	RED
-----	-------	-----	-------	-----

40M TOWER VIEW



REV	DESCRIPTION	DATE
2	FIRST ISSUE	
1		
0		

SCALE: 1/20

REV: 1 SH. / TOTAL

DAKASAZAN DWG NO:

SCALE: A1

DESIGN STAGE: DETAIL DESIGN

DESIGN AND MANUFACTURER: DAKASAZAN KALAN CO.

CONTRACTOR: SULTAN MYSOOM

TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4

CLIENT: AFGHAN TELECOM

DESIGN	DRAMA	CHECK	APP	WRT	DATE

5

4

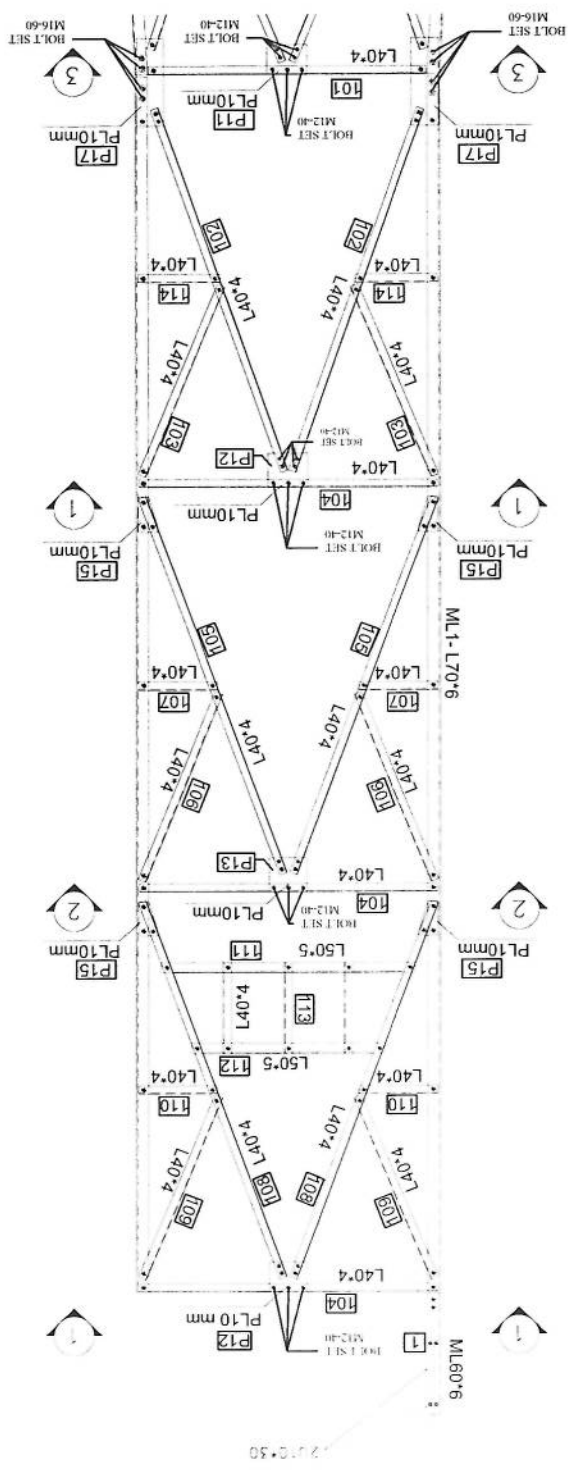
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2

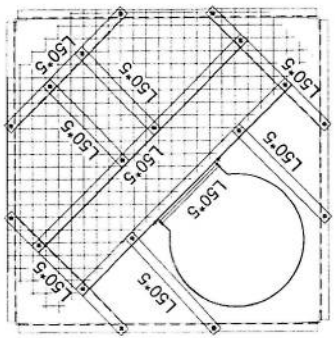
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A B C D E F G

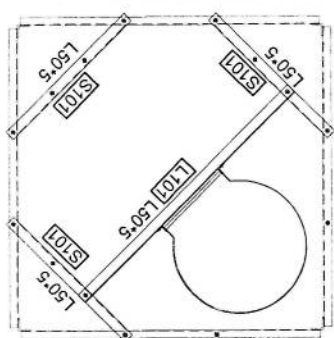
BLOCK 1



SECTION 2-2



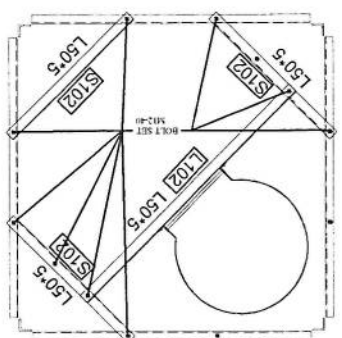
SECTION 1-1



SECTION 2-2



SECTION 3-3



NOTE:
1 ALL BOLT SET IN BRACING ARE M12-40
2 ALL BOLT SET IN MAIN LEGS ARE M16-60

PROFILES GRADE LEGEND
1-L-ST37
2-ML-ST50
3-HT-ST52
4-ALL JOINT PLATES ARE ST52

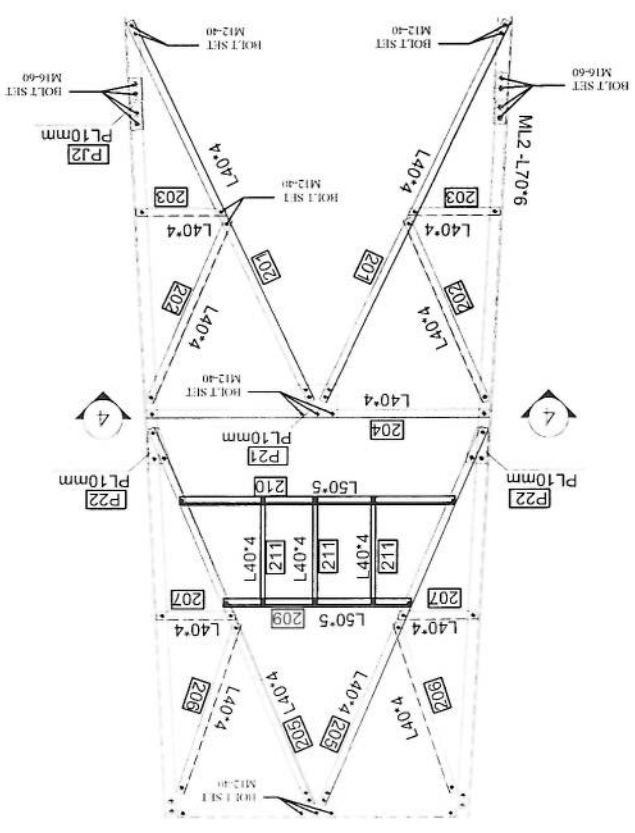
CLIENT	AFGHAN TELECOM
TITLE	APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4
CONTRACTOR	SULTAN MYSOOM
DESIGN AND MANUFACTURER	DAKHAZAN KALAN CO.
SCALE	1:1
SECTION NO.	0
REVISION	0
DATE	1 OF 20

Block	Mark	Description	Length	WEIGHT	NUMBER	Total Weight
BL1	N11	L 70x6	6	38.9958	4	155.9832
BL1	101	L 40x4	1.38	3.707146	4	15.588584
BL1	102	L 40x4	1.925	4.7387725	8	37.91018
BL1	103	L 40x4	0.978	2.4075426	8	19.2603408
BL1	104	L 40x4	1.475	3.6310075	12	43.57209
BL1	105	L 40x4	2.04	5.021808	8	40.17444
BL1	106	L 40x4	2.4715468	6.1875468	8	49.3723744
BL1	107	L 40x4	0.9231375	2.3751375	8	19.772374
BL1	108	L 40x4	2.043	5.0292531	8	40.2340248
BL1	109	L 40x4	1.006	2.3764702	8	19.8117616
BL1	110	L 40x4	0.375	0.9231375	8	7.3851
BL1	111	L 50x5	1.21	4.618699	4	18.504796
BL1	112	L 50x5	0.88	3.380872	4	13.523488
BL1	113	L 40x4	0.495	1.2185415	12	14.622498
BL1	114	L 40x4	0.396	0.9748332	8	7.7986656
BL1	115	Heavy Wash 376 Wash@TCC 10.25mm2@ 11KGS	2.5	28.25	1	28.25
BL1	116	Mash Washes PL100x30x8	1	0.2375	10	2.375
BL1	S 101	L 50x5	0.8	3.0752	9	27.6618
BL1	S 102	L 50x5	0.855	3.2848245	3	9.8544735
BL1	S 103	L 50x5	1.465	5.6283835	1	5.6283835
BL1	S 104	L 50x5	0.599	2.3012981	2	4.6025962
BL1	S 105	L 50x5	0.569	2.1860411	3	6.5581233
BL1	L 101	L 50x5	1.465	5.6283835	3	16.8851505
BL1	L 102	L 50x5	1.449	5.5669131	1	5.5669131
BL1	P 12	PL 150x160x10	1	1.9364	8	15.4912
BL1	P 13	PL 150x160x10	1	1.9364	8	15.4912
BL1	P 14	PL 240x160x10	1	3.1005	4	12.4012
BL1	P 15	PL 187x110x10	1	1.6585	16	26.5328
BL1	P 17	PL 308x120x10	1	2.987	8	23.896
BL1	P 18	PL 308x50x10	1	1.2463	8	9.9704
BL1	P 1	PL 400x150x8	1	3.8831	1	3.8831
BL1	I	L 60x6	0.6	3.31866	2	6.63732
BL1	C 10x37	L 10x37	1	0.206	2	0.412
BL1	M12-40	BOLT SET	1	0.06798	410	27.8718
BL1	M16-60	BOLT SET	1	0.16274	32	5.20768
BL1	WASHER		1	0.008446	442	3.73132
TOTAL WEIGHT						705.96 Kg

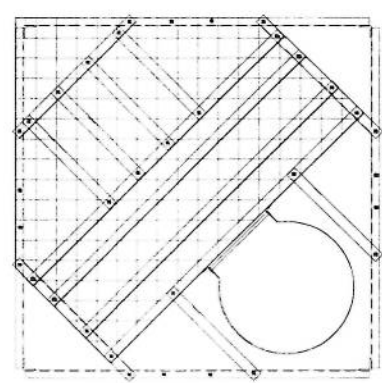
0 OF 20
 5-1-2024
 DAKALSAZAN DWG NO. 1
 DESIGN STAGE: DETAIL DESIGN
 SCALE: 1:1
 DAKALSAZAN KALAN CO.
 DESIGN AND MANUFACTURE
 SULTAN MANSOOR
 CONTRACTOR
 APPROVAL DRAWING
 FOR TOWER TYPE 40-160-EPA10(AK1-40m)
 PANEL 4
 AFGHAN TELECOM
 4-ALL JOINT PLATES ARE ST52
 3-HT=ST52
 2-ML=ST50
 1-L=ST37
 PROFILES GRADE LEGEND

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
B1.2	M1.2	L.70x6	4.005	26.0296965	4	104.11878
B1.2	201	L.40x4	2.303	5.6629251	8	45.3543608
B1.2	202	L.40x4	1.083	2.6660211	8	21.3281688
B1.2	203	L.40x4	0.425	1.0462225	8	8.36978
B1.2	204	L.40x4	1.69	4.160273	4	16.641092
B1.2	205	L.40x4	2.32	5.711144	8	45.689152
B1.2	206	L.40x4	1.115	2.7447955	8	21.958364
B1.2	207	L.40x4	0.37	0.910829	8	7.286632
B1.2	209	L.50x5	0.96	3.688224	4	14.752896
B1.2	210	L.50x5	1.38	5.301822	4	21.207288
B1.2	211	L.40x4	0.585	1.4400945	12	17.281134
B1.2	S.201	L.50x5	0.877	3.3693463	3	10.1080389
B1.2	S.202	L.50x5	0.519	1.9939461	4	7.9757844
B1.2	S.203	L.50x5	0.579	2.2244601	2	4.4489202
B1.2	L.201	L.50x5	1.723	6.6195937	1	6.6195937
B1.2	L.202	L.50x5	1.723	6.6195937	3	19.8587811
B1.2	Washer	PL100X40X8	1	0.2575	10	2.575
B1.2	Bolt Set	M16-60	1	0.16274	32	5.20768
B1.2	Bolt Set	M12-40	1	0.06798	304	20.66592
B1.2	P.21	PL240*160*10	1	3.1003	4	12.4012
B1.2	P.22	PL119*110*10	1	1.0009	8	8.4872
B1.2	P1.2	PL320*60*10	1	1.5533	8	12.4424
B1.2	M1.2	L.60X6	0.32	1.769952	4	7.079808
B1.2	MESH	HEVY MESH	2.5	28.325	1	28.325
B1.2	WASHER		1	0.008446	336	2.837856
Total						473.02 Kg

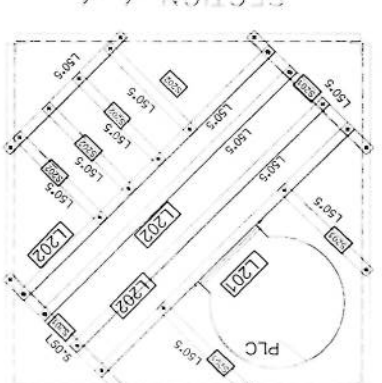
BLOCK 2



SECTION 4-4



SECTION 7-7



NOTE:
 1. ALL BOLT SET IN BRACING ARE M12-40
 2. ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
 3. ALL PLATE AND JOINT PLATE ARE PLATE 10mm

SCALE: PROJECT: AT DESIGN STAGE DESIGN NO. 19.7824
 DOKALSAZAN DWG NO. 54 / 07A
 1 OF 20

DESIGN AND MANUFACTURER: **DAKALSAZAN KALAN CO.**

CONTRACTOR: **SULTAN MLYSIOM**

APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4

AFGHAN TELECOM

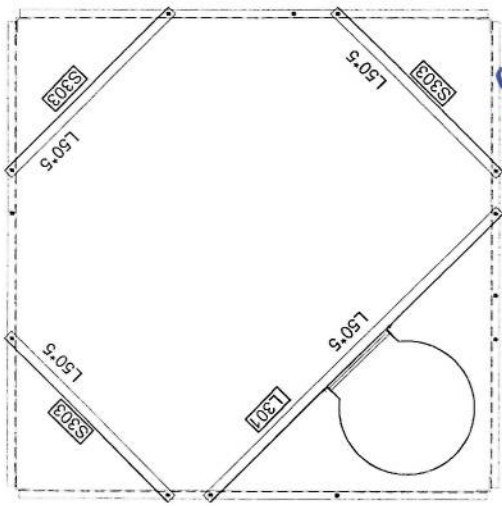
REVISIONS:

NO.	DESCRIPTION	DATE	BY	CHK.
1				
2				

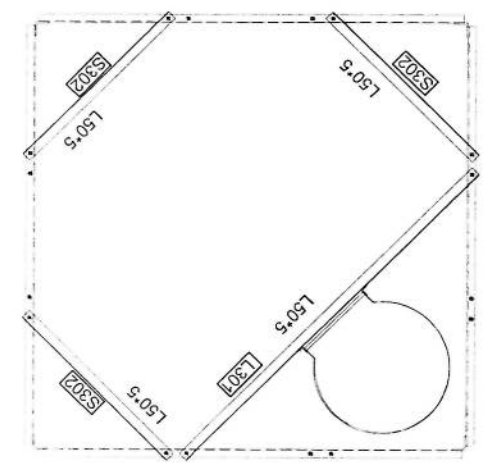
Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL3	M13	L80*7	6	51.9738	4	207.8952
BL3	S301	L40*4	2.396	5.750312	4	23.001248
BL3	S302	L40*4	2.122	5.227774	4	20.8949096
BL3	S303	L40*4	1.925	4.7387725	4	18.95505
BL3	S304	L40*4	2.263	5.5708271	4	44.566168
BL3	S305	L40*4	1.108	2.775636	8	21.805088
BL3	S306	L40*4	0.573	1.410541	8	11.284328
BL3	S307	L40*4	0.273	0.672491	8	4.339928
BL3	S308	L40*4	1.086	2.6734052	8	21.38724096
BL3	S309	L40*4	0.526	1.294842	8	10.358736
BL3	S310	L40*4	2.185	5.3788145	8	43.030516
BL3	S311	L40*4	1.061	2.611837	8	20.8949096
BL3	S312	L40*4	0.478	1.1766926	8	9.4135408
BL3	P13	PL10mm	2.0703		8	16.5624
BL3	M13	L20*6	0.32	2.07176	4	8.19104
BL3	P31	PL240*160*10	1	3.1003	4	12.4012
BL3	P32	PL240*160*10	1	3.1003	4	12.4012
BL3	P33	PL240*160*10	1	3.1003	4	12.4012
BL3	L301	L50*5	1.993	7.656907	3	22.9707201
BL3	S301	L50*5	0.717	2.756423	3	8.269269
BL3	S302	L50*5	3.819		3	11.557
BL3	S303	L50*5	1.31	5.032889	3	15.098667
BL3	WASHER	PL100X40X8	1	0.2575	10	2.575
BL3	Bolt Set	M16-60	1	0.16274	48	7.81152
BL3	M16-60		1	0.06798	288	19.7824
BL3	WASHER		1	0.008446	396	2.897856
Total						658.17 Kg

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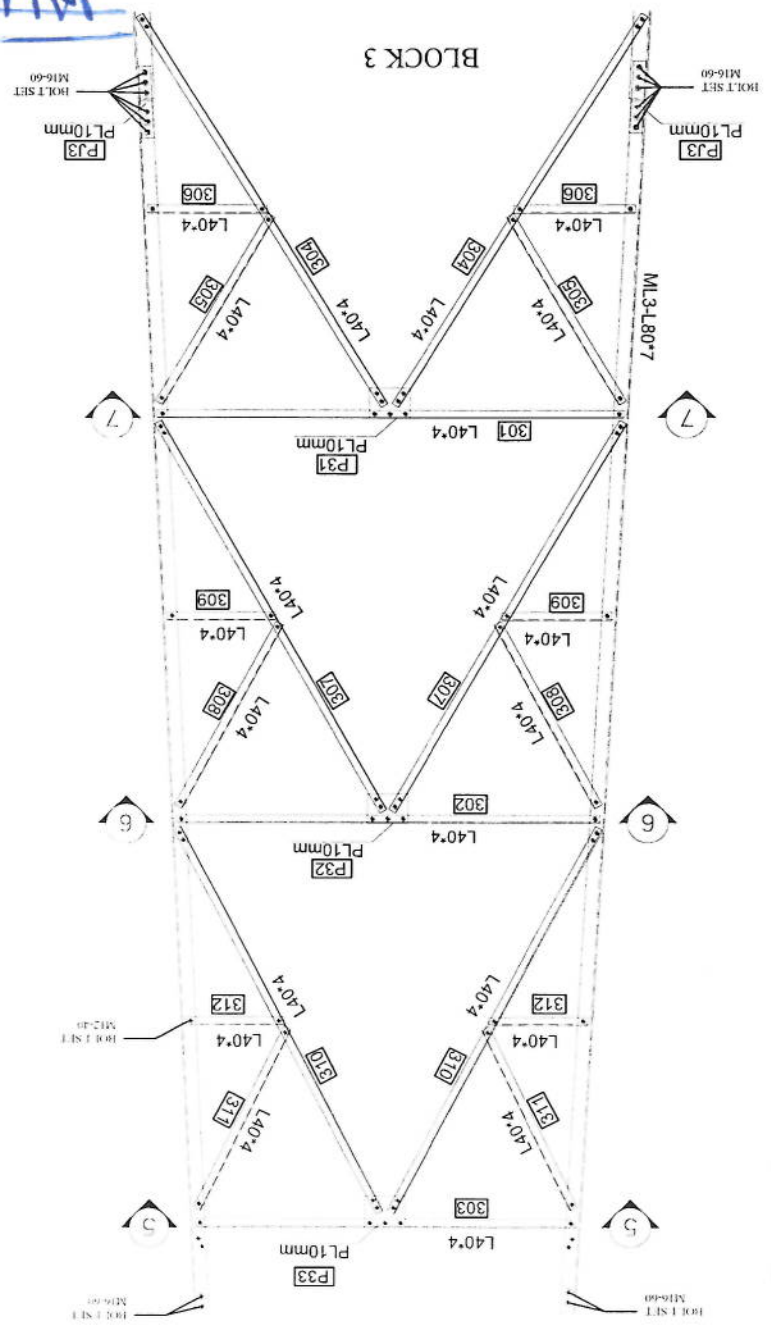
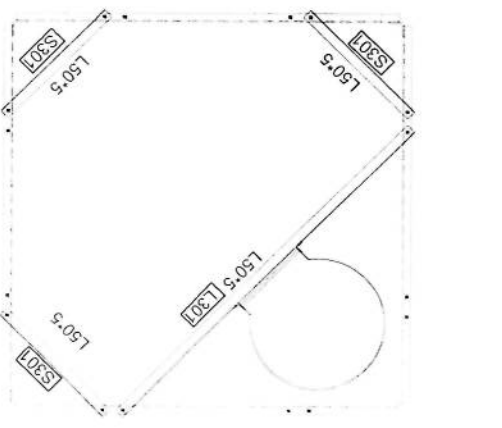
SECTION 7-7



SECTION 6-6



SECTION 5-5



NOTE:
 1 ALL BOLT SET IN BRACING ARE M12-40
 2 ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
 3 ALL PLATE AND JOINT PLATE ARE PL10mm

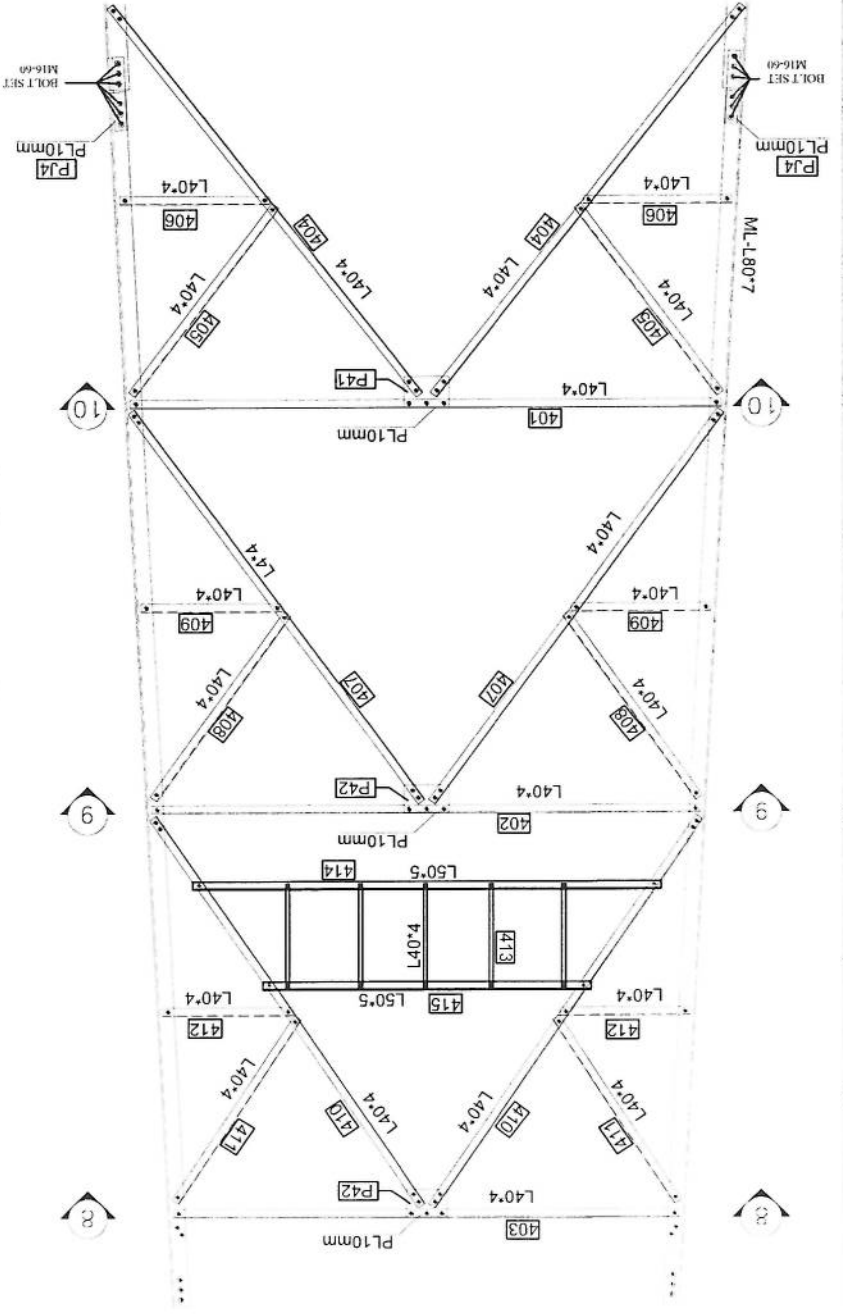
REV	DATE	BY	CHKD	APPD	DATE
2					
CLIENT: AFGHAN TELECOM TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPAT0(AK1-40m) PANEL 4 CONTRACTOR: SUTRAN MYSTROM DESIGN AND MANUFACTURE: DAKHAZAN KALAN CO. SCALE: 1:1 SHEET NO: 0 OF 20					

PROFILES GRADE LEGEND

1-L=ST37
 2-ML=ST50
 3-HT=ST52
 4-ALL JOINT PLATES ARE ST52

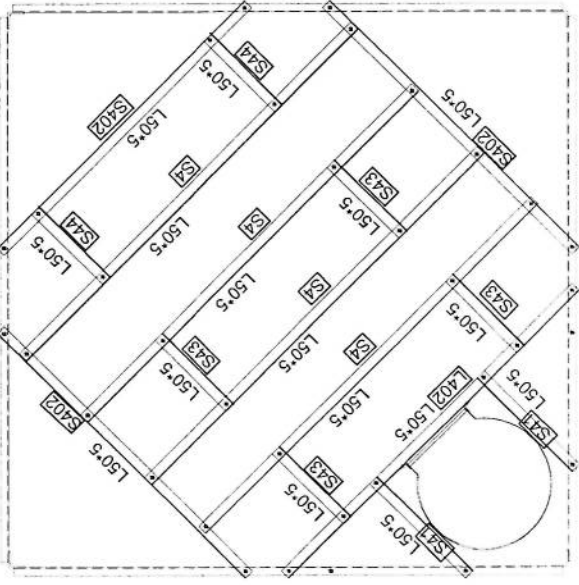
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BLOCK 4

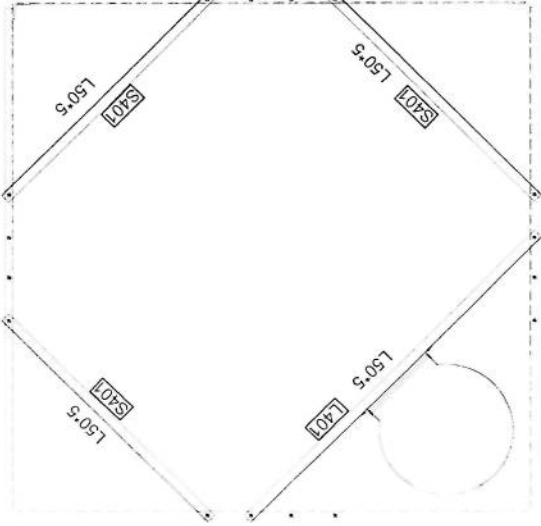


NOTE:
 1 ALL BOLT SET IN BRACING ARE M12-40
 2 ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
 3 ALL PLATE AND JOINT PLATE ARE PLATE 10mm

SECTION 9-9



SECTION 8-8



5 4 3 2 1

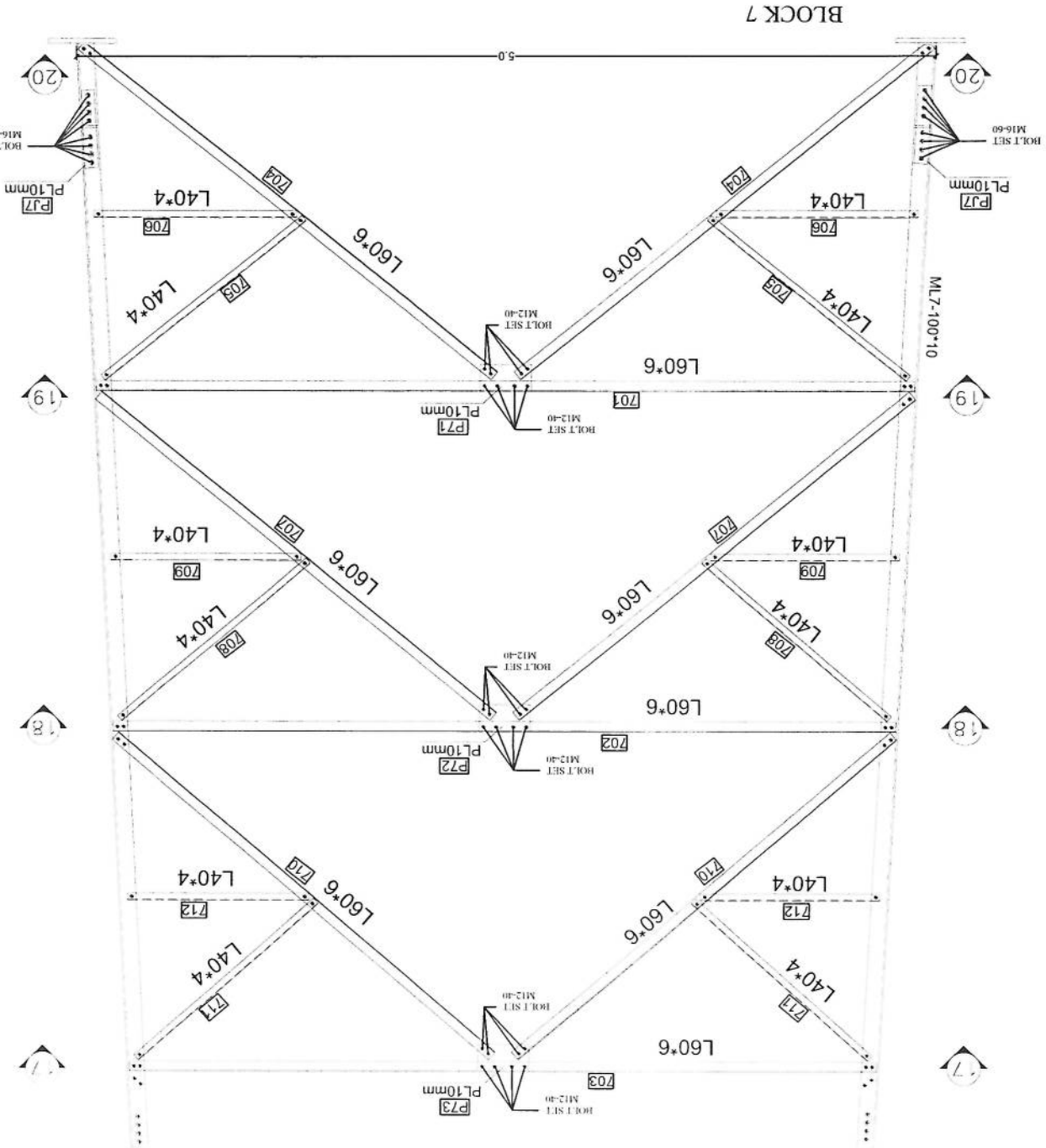
G F E D C B A

REV	NO	DATE	DESCRIPTION
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CLIENT: AFGHAN TELECOM TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4 CONTRACTOR: SULTAN MYSOOM DAKALSAZAN KALAN CO. DESIGN AND MANUFACTURER SCALE: FORMAT: A1 DESIGN STAGE: DETAIL DESIGN DRAWN: CHECK: APPR: VER: DATE:			

PROFILES GRADE LEGEND

1-L=ST17
 2-ML=ST50
 3-HT=ST52
 4-ALL JOINT PLATES ARE ST52

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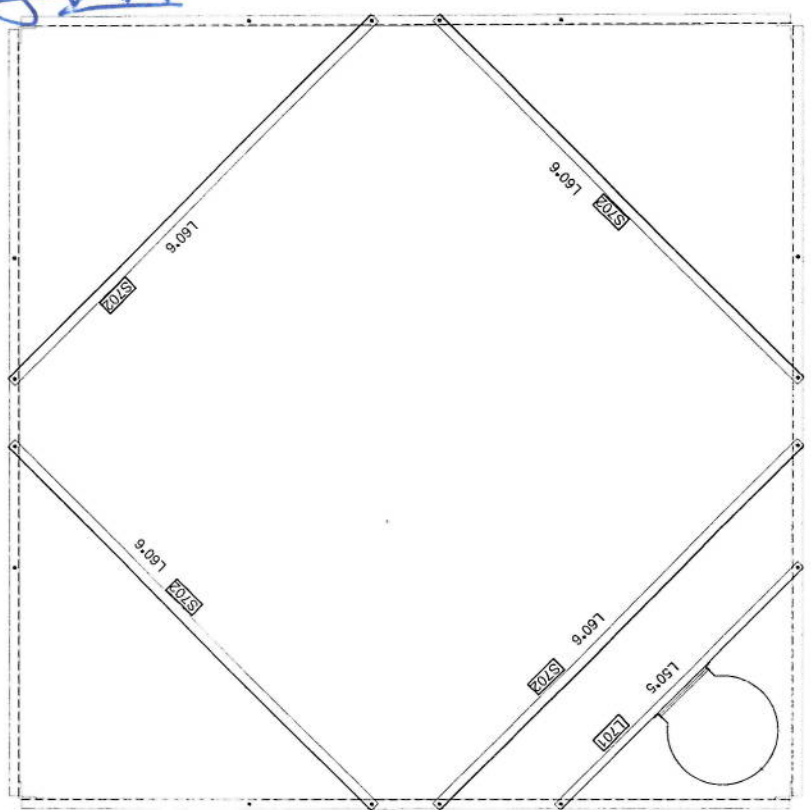


NOTE:
 1. ALL BOLT SET IN BRACING ARE M12-40
 2. ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
 3. ALL PLATE AND JOINT PLATE ARE PLATE 10mm

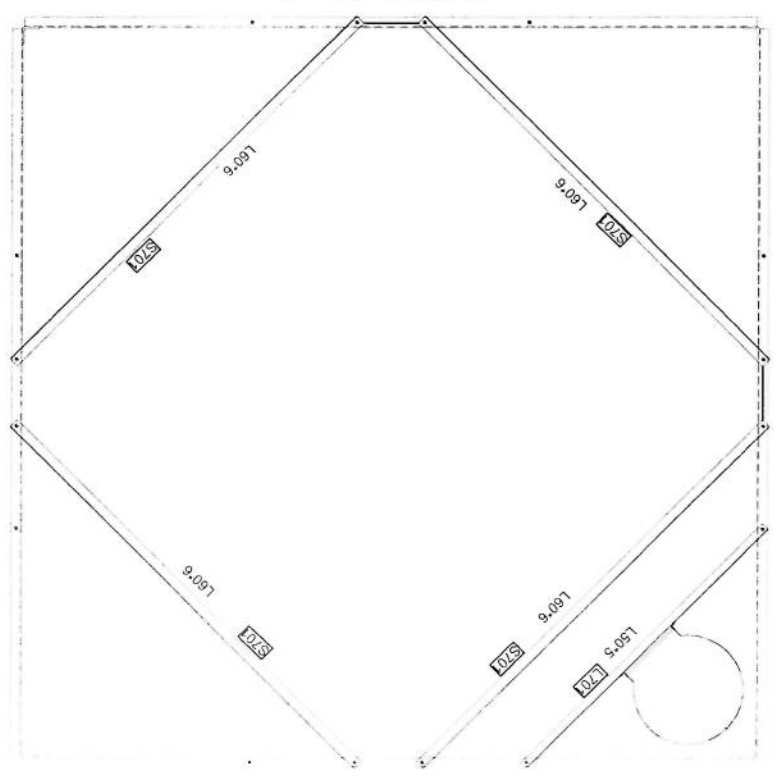
SCALE	0
REV	SH / 20/21
DESIGN NO.	DAKALZAN 018
DESIGN STAGE	DETAIL DESIGN
DESIGNER	DAKALZAN KALAN CO.
DESIGN AND MANUFACTURER	DAKALZAN KALAN CO.
CONTRACTOR	AFGHAN TELECOM
APPROVAL DRAWING	FOR TOWER TYPE 40-163-EPA10(AKI-40m)
PANEL	4
CHECKED	
DATE	

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SECTION 18-18



SECTION 17-17



A B C D E F G

0 OF 20

REV: SM / 197A

SCALE: 1:1

DATE: 197A

DESIGN AND MANUFACTURER: DANALSAZAN KALAN CO.

CONTRACTOR: SULTAN MYSOOM

FOR TOWER TYPE 40-160-EPA10(AK1-40m)

APPROVAL DRAWING

PANEL 4

AFGHAN TELECOM

CLIENT: AFGHAN TELECOM

DESIGN: DESIGN

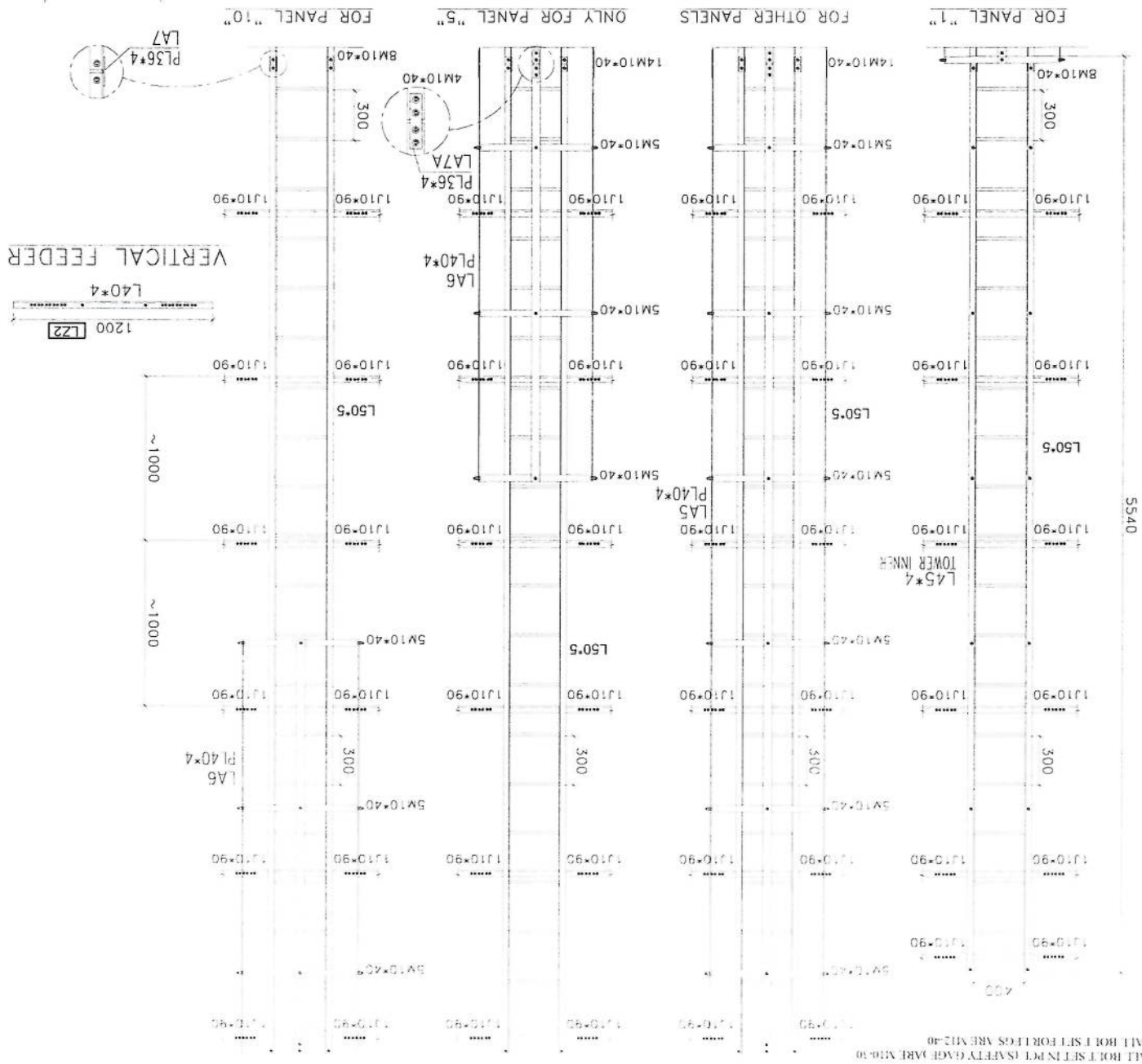
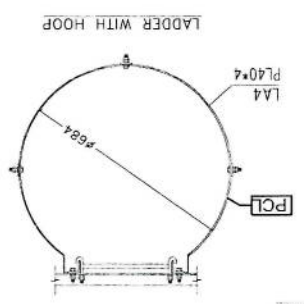
DRAWN: DRAWN

CHECK: CHECK

DATE: DATE

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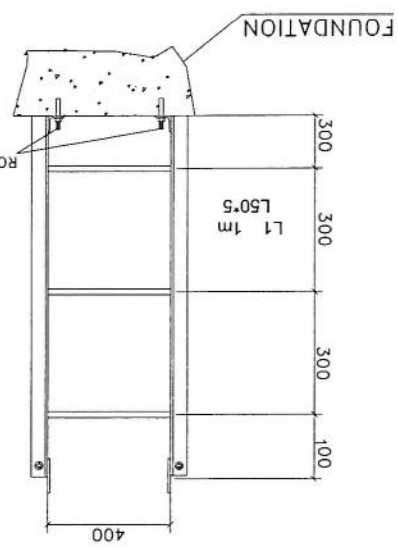
Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
Ladder	PCL	PL40x4	1.875	2.43375	29	70.56775
Ladder	PL6	PL40x4	5.868	7.615904	3	22.848712
Ladder	PL5	PL40x4	5.996	7.7816088	3	23.344864
Ladder	PL4	PL40x4	4.168	5.4092304	3	16.2276912
Ladder	PL3	PL40x4	5.603	7.2725734	3	21.8147202
Ladder	PL2	PL40x4	1.448	1.8792144	3	5.6376432
Ladder	PL1	PL40x4	4.05	5.2569	2	15.76827
Ladder	LT7	L50x5	5.995	23.0321905	2	46.064381
Ladder	LT6	L50x5	5.995	23.0321905	2	46.064381
Ladder	LT5	L50x5	5.995	23.0321905	2	46.064381
Ladder	LT4	L50x5	5.997	23.038743	2	46.0797486
Ladder	LT3	L50x5	5.997	23.038743	2	46.0797486
Ladder	LT2	L50x5	2.998	11.5180162	2	23.0360324
Ladder	LT1	L50x5	6.048	23.2358112	2	46.4716224
Ladder	L50X5	L50X5	0.57	2.189683	2	4.379366
Ladder	R0D	Φ 16	0.5	0.8137	134	109.0358
Ladder	JPP	PL184*40*8	1	0.4738	9	4.2642
Ladder	JPL	PL105*40*8	1	0.2678	24	6.4272
Ladder	LZ2	L40x4	1.2	2.95404	40	118.1616
Ladder	L BOLT SET	Φ 10	0.1	0.05386	80	5.1088
Ladder	BOLT SET	M10-30	1	0.05974	150	8.961
Ladder	BOLT SET	M12-40	1	0.06798	84	5.71032
Ladder	Washer		1	0.008446	234	1.976364
TOTAL WEIGHT						749.09 Kg



NOTE: 1. ALL BOLT SET IN PGT (SAFETY) GAGE MARK M10-30 2. ALL BOLT SET FOR LEGS ARE M12-40

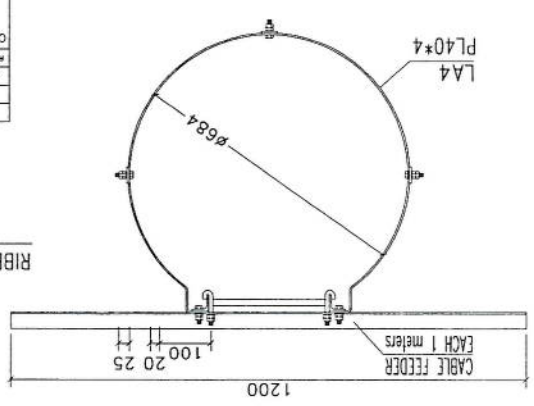
G
F
E
D
C
B
A

INSTALL BOTTOM PART OF LADDERS

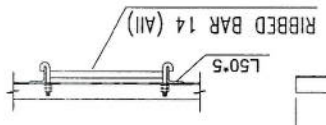


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LADDER WITH HOOP

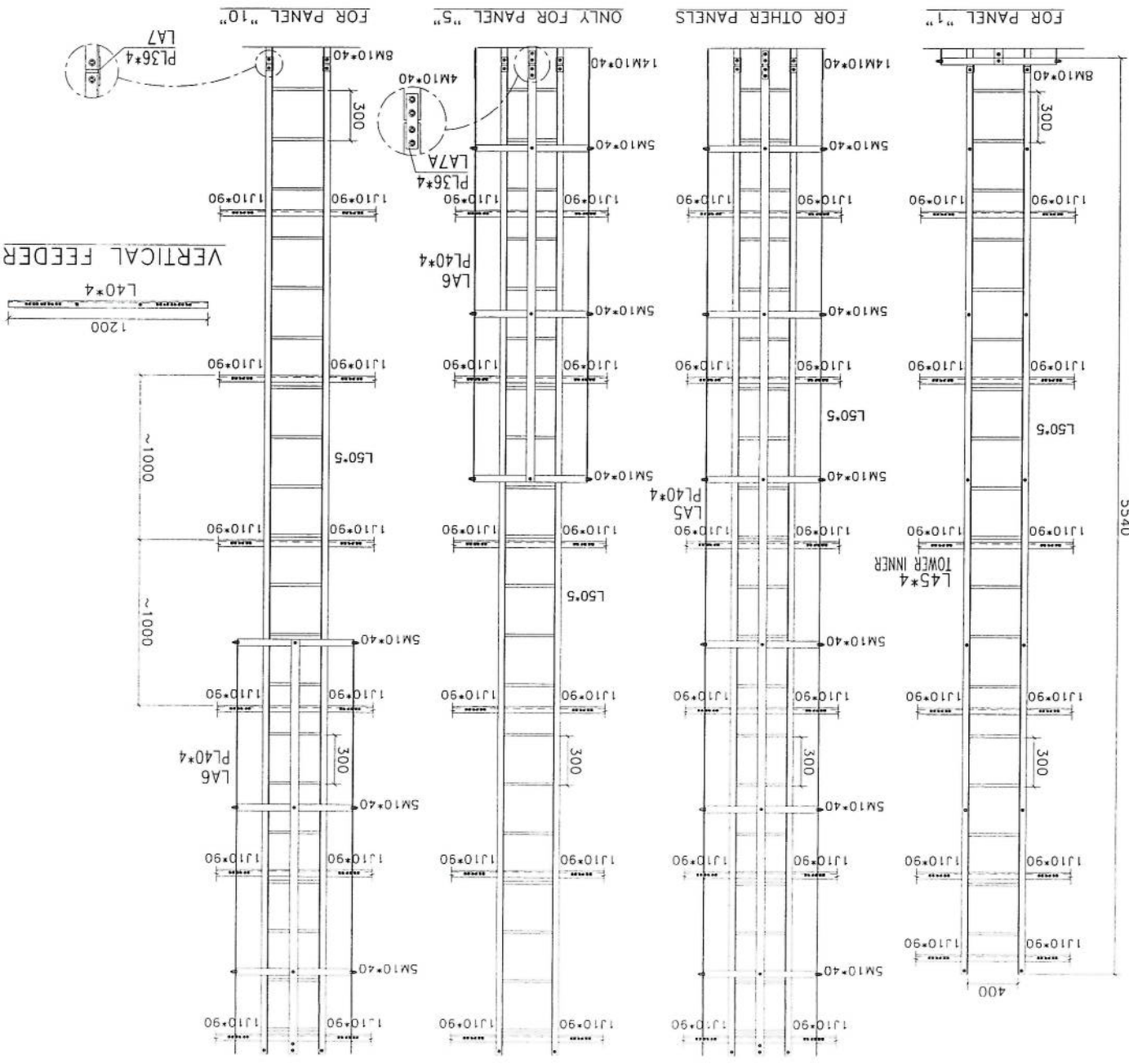


LADDER WITHOUT HOOP



REV	DESCRIPTION	DATE
2	FIRST ISSUE	

CLIENT	AFGHAN TELECOM	
TITLE	APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4	
CONTRACTOR	SUTUN MYSOOM	
DESIGN AND MANUFACTURER	DARAKSAZAN KALAN CO.	
SCALE	FORMAT: AT DESIGN STAGE DETAIL DESIGN	
REV	SH./TOTAL	0
DARAKSAZAN DWG NO:		

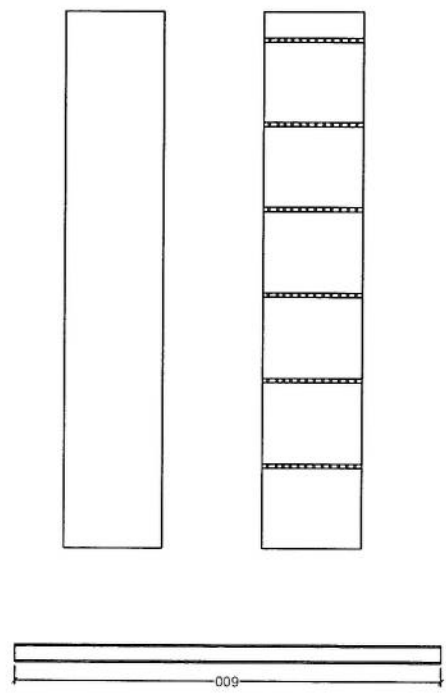


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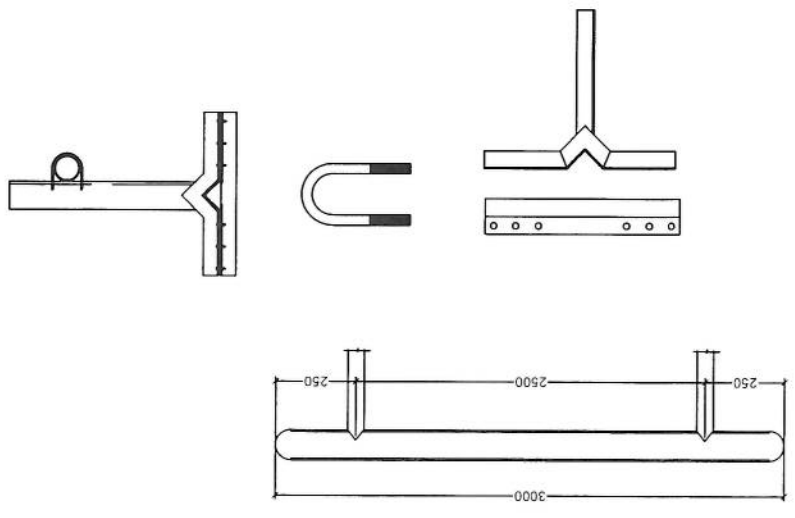
REV:	0	1	OF: 20
DAKALSAZAN DWG NO:			
SCALE:	FORMA: A1	DESIGN STAGE:	DETAIL DESIGN
DESIGN AND MANUFACTURER:			
CONTRACTOR:			
TITLE:	APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4		
CLIENT:			
REV:	2	DESCRIPTION:	
DATE:		DESIGN:	
		DRAWN:	
		CHECK:	
		APPR:	
		VER:	

Sr.No	Block	Mark	Description	Length	WEIGHT	Qty	Total Weight	
1	SUPPORT		(60X3)MM PIPE	3	13.0398	3	39.1194	
2	SUPPORT		(60X3)MM PIPE		2.60796	2	5.21592	
3	ANGLE	SL 1	L60X6		3.31866	3	9.95598	
4	ANGLE	ANG	L60X6		2.488995	20	49.7799	
5	ANGLE	ANG	L60X6		2.76555	5	13.82775	
6	PIPE	PIPE	(27X2.6)MM PIPE	1.6	3.98816	5	19.9408	
7	ANGLE	ANGLE	L60X6	0.5	2.76555	5	13.82775	
8	U BOLT	U B	ROD 12	0.3	0.27501	35	9.62535	
SUPPORTER							0	
Total								161.29 Kg

CABLE TRAY



SUPPORTER

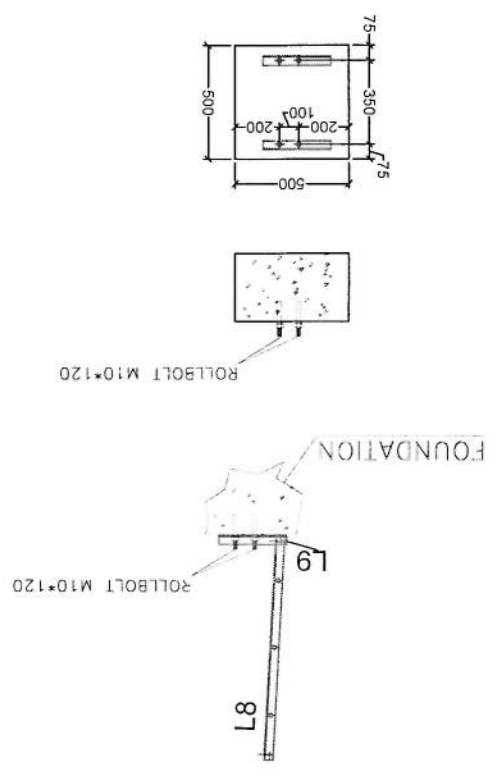
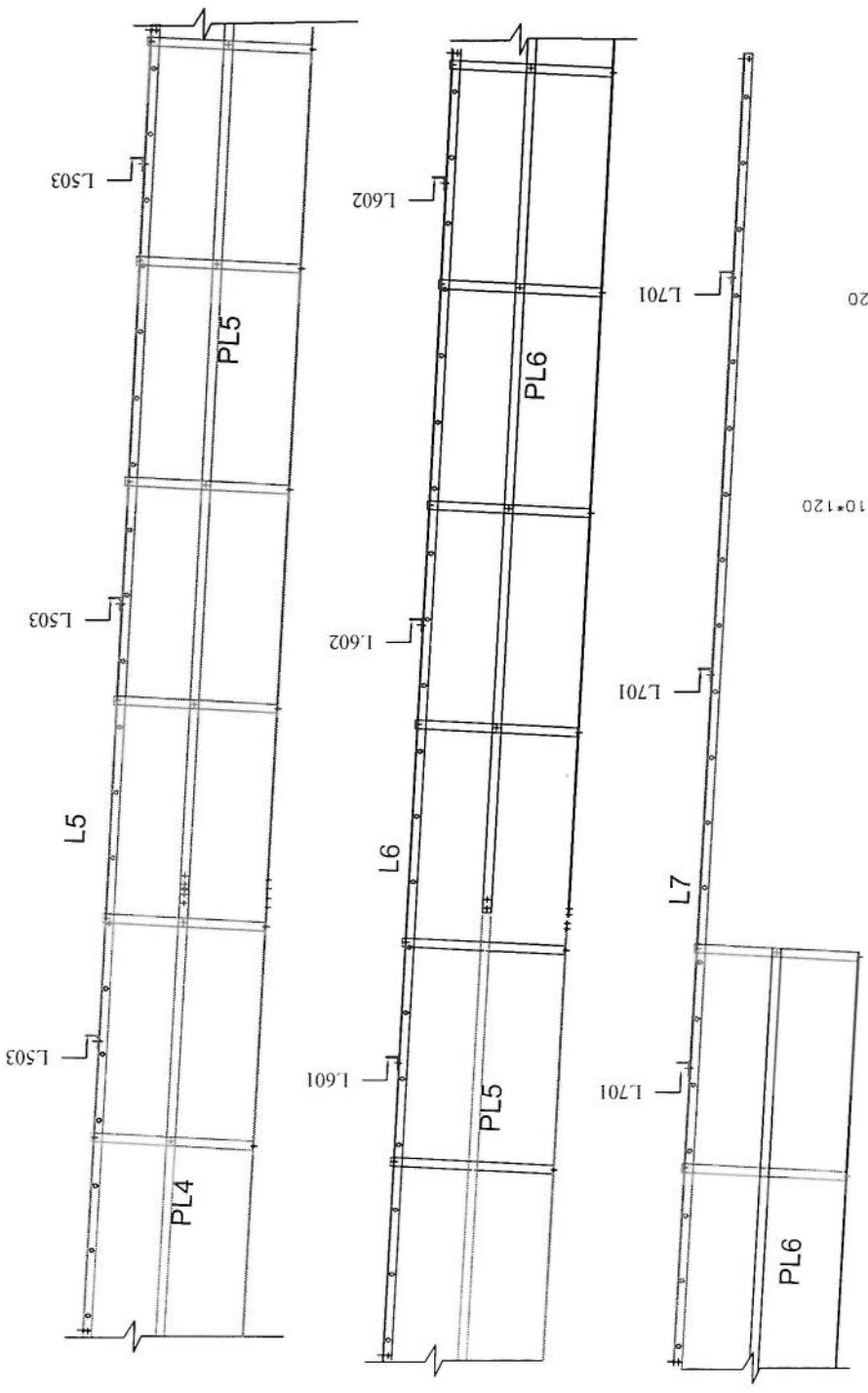


A B C D E F G

1 2 3 4 5

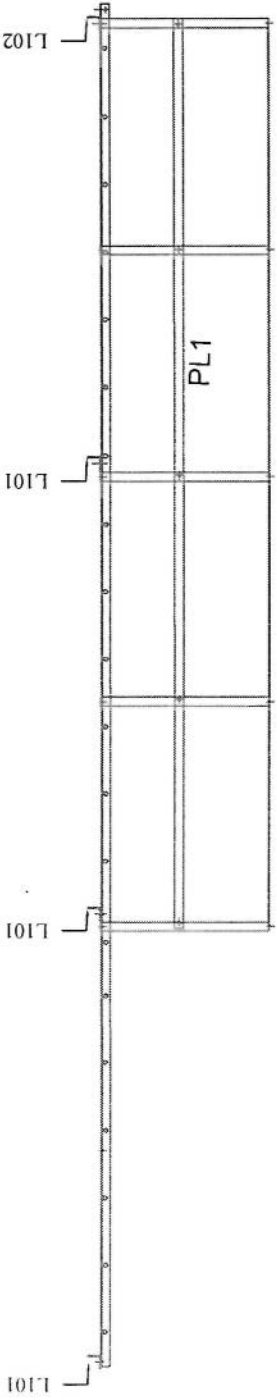
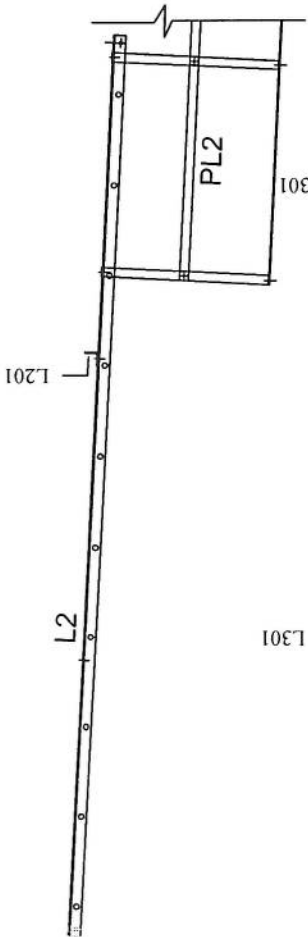
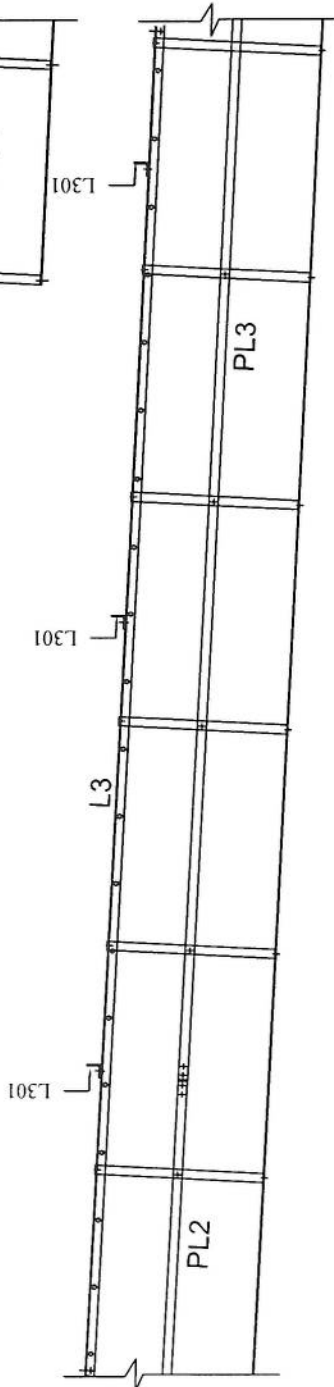
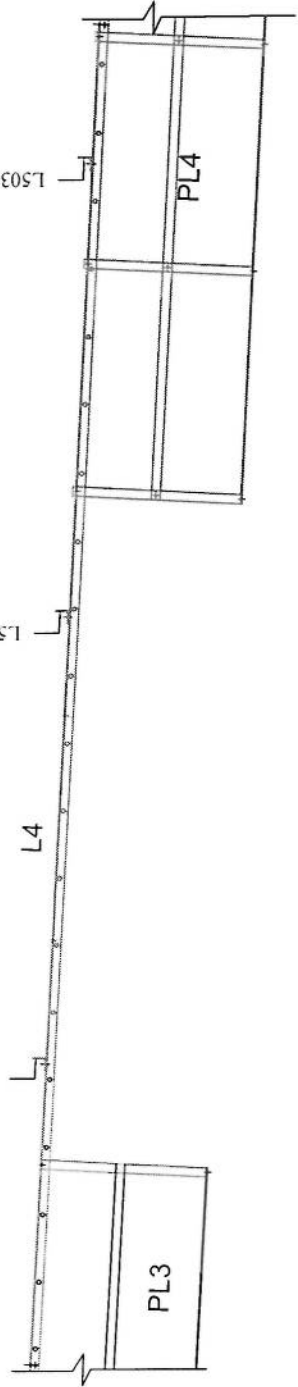
REV	0	OF 20
REV	54	10/14
SCALE	FORMAT A1	DESIGN STAGE: DETAIL DESIGN
DAKALSAZAN DWG NO. _____ DAKALSAZAN KALAN CO. DESIGN AND MANUFACTURER		
SULTAN MANSOOR ENGINEERING & CONSULTING SERVICES CONTRACTOR		
APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4		
AFGHAN TELECOM CLIENT		
NO.	DATE	DESCRIPTION
1		DESIGN
2		APPROVAL

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A B C D E F G

A B C D E F G



DATE:	FORMAT: A1	DESIGN STAGE:	FINAL DESIGN
DARALAZAN DWG NO:	REV:	SH: /TOTAL:	0 / 1
DESIGN AND MANUFACTURER:	DARALAZAN KALAN CO.		
CONTRACTOR:	SULTAN MANSOOR ENGINEERING & CONSULTING SERVICES		
TITLE:	APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4		
CLIENT:	AFGHAN TELECOM		
REV:	DESCRIPTION:	DESIGN:	DATE:
2	APPROVAL	SK	01/01/20

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5

4

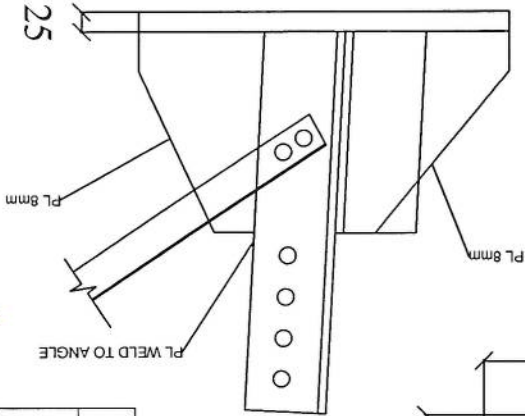
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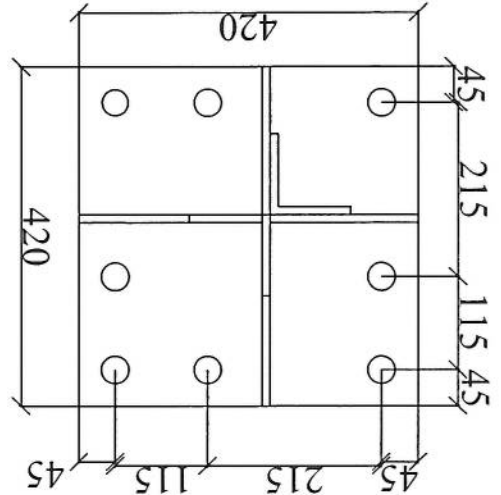
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BASE PLATE

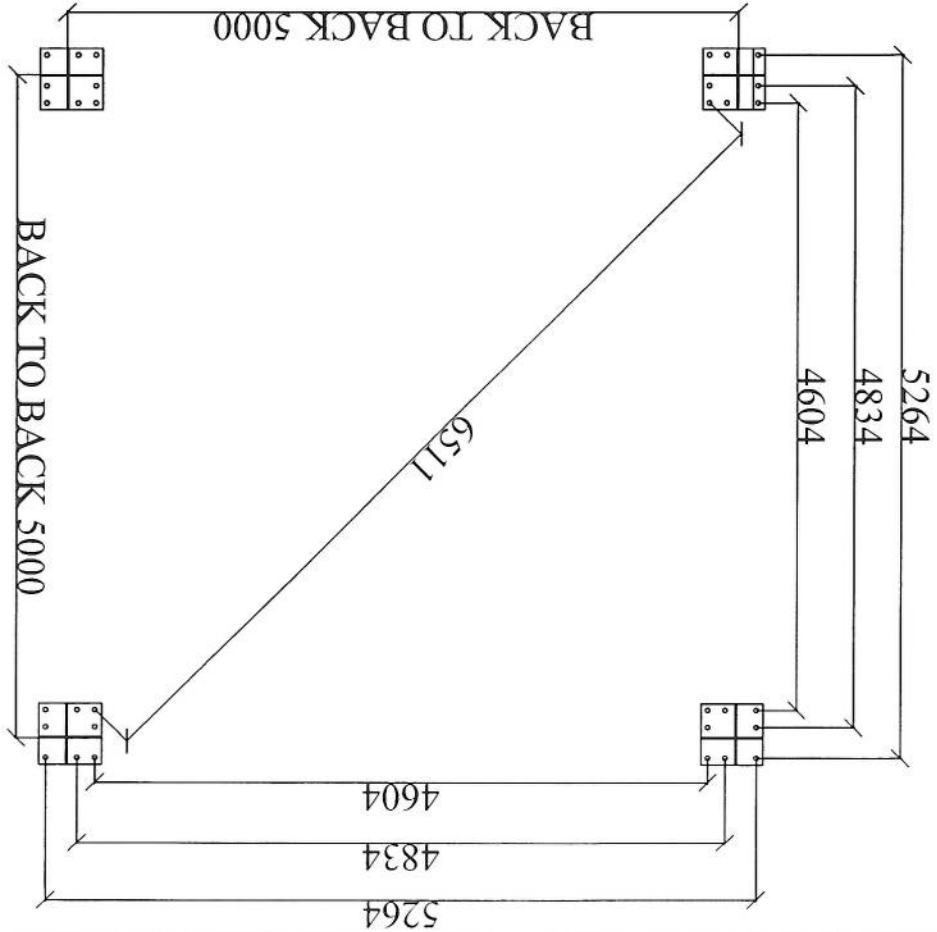
SIDE VIEW



BASE PLATE



SECTION OF BASE PLATE



REV	DATE	BY	CHK	APP	DATE	DESCRIPTION
2						FIRST ISSUE
CLIENT: AFGHAN TELECOM TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4 CONTRACTOR: SUJUAN MYROOM DESIGN AND MANUFACTURER: DARAKASAZAN KALAN CO. SCALE: [FORMAT] A1 DESIGN STAGE: DETAIL DESIGN DARAKASAZAN DWG NO: [REV] SH./TOTAL 0 1 OF: 20						

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Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BASE	B5	PL 420X420X25	1	35.6586	4	142.6344
BASE	STF	PL250*189*8	1	3.0591	2	6.1182
BASE	STF	PL250*130*8	1	2.1012	2	4.2024
BASE	ANGLE	L100X10	0.5	7.6838	4	30.7352
BASE	ANGLE	L100X10	0.25	3.8419	4	15.3676
BASE	ANCHOR BO	Φ 30	1.1	6.28815	32	201.2208
BASE	TEMPPLATE	PL40X40X5	1	6.4684	4	25.8736
BASE	NUT30	NUT30	1	0.309	128	39.552
BASE	Cable Tray	GI SHEET 1.8mm	1	58.71	1	58.71
BASE						524.41KG

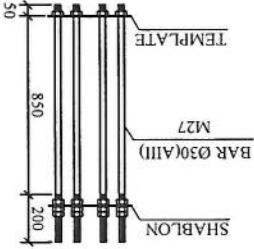
POS.	BENDING DIAGRAM	#	NO. BOB.	UNIT LENGTH m	TOTAL LENGTH m	UNIT WEIGHT kg/m	TOTAL WEIGHT kg
1		20	12	4	1.35	64.8	2.47
2		10	6	4	2.40	57.6	0.617
3		20	32	2	8.25	528	2.47
4		20	32	2	8.25	528	2.47
5		20	58	1.80	104.4	2.47	258
6		10	48	0.75	36	0.617	22
CON. VOL. = 37.7m ³ TOTAL WEIGHT (kg) : 3084							

SOIL CHARAC.: ALLOWABLE BEARING=1.0~2.0 KG/CM² NORMAL
 BAR BENDING SCHEDULE (TYPE AIII - FY=4000kg/cm²)
 TYPE 7

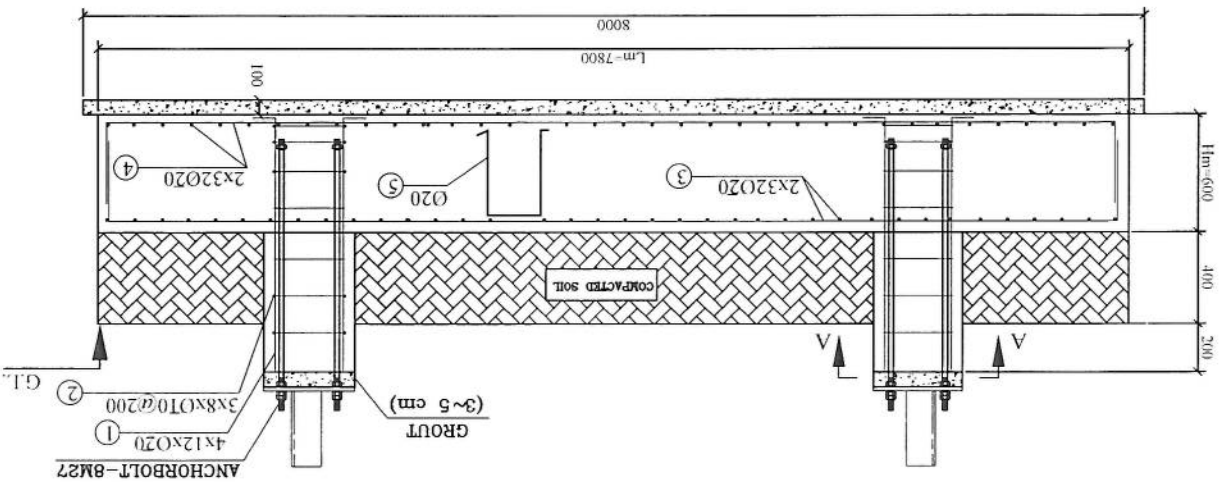
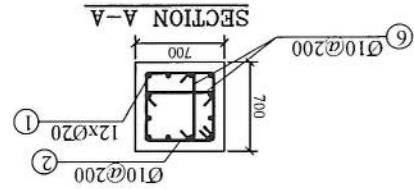
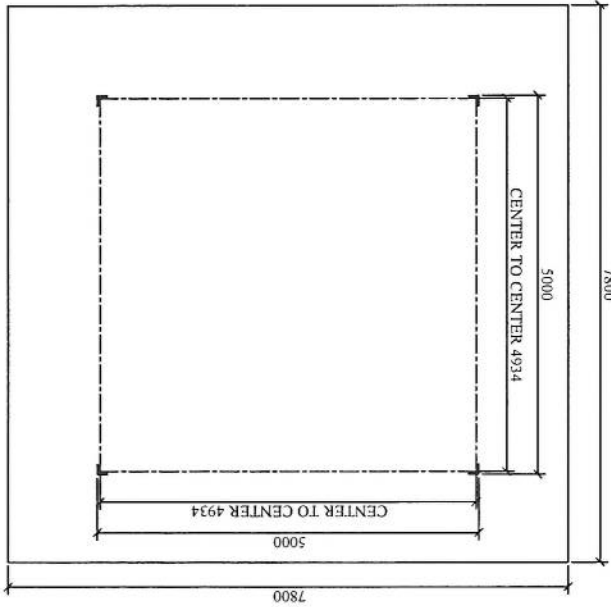
- NOTE:
 1- ALL DIMENSION ARE IN MM.
 EXCEPTION AS NOTED.
 2- F=210 kg/cm² AFTER 28 DAYS ON CYLINDER SPEC.
 3- GRADE OF BARS:
 AIII FOR D<12mm
 AIII FOR D>12mm
 4- COVER ON BARS IS 75 mm.
 5- THICKNESS OF LEAN CONCRETE 10cm.



ANCHOR BOLT



FOUNDATION PLAN



REVISION RECORDS	
REVISION NO	DESCRIPTION

LEGEND:

□ PVC

PROJECT TITLE / NO:
GSM SITES

DRAWING TITLE:
40m Tower Grounding System

DRAWN BY:
CIVIL TEAM

CHECKED BY:

APPROVED BY:

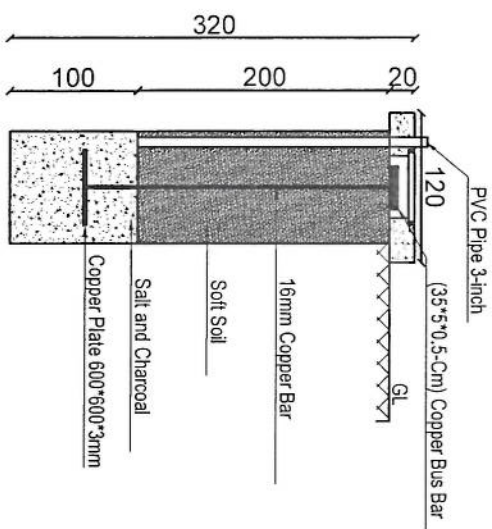
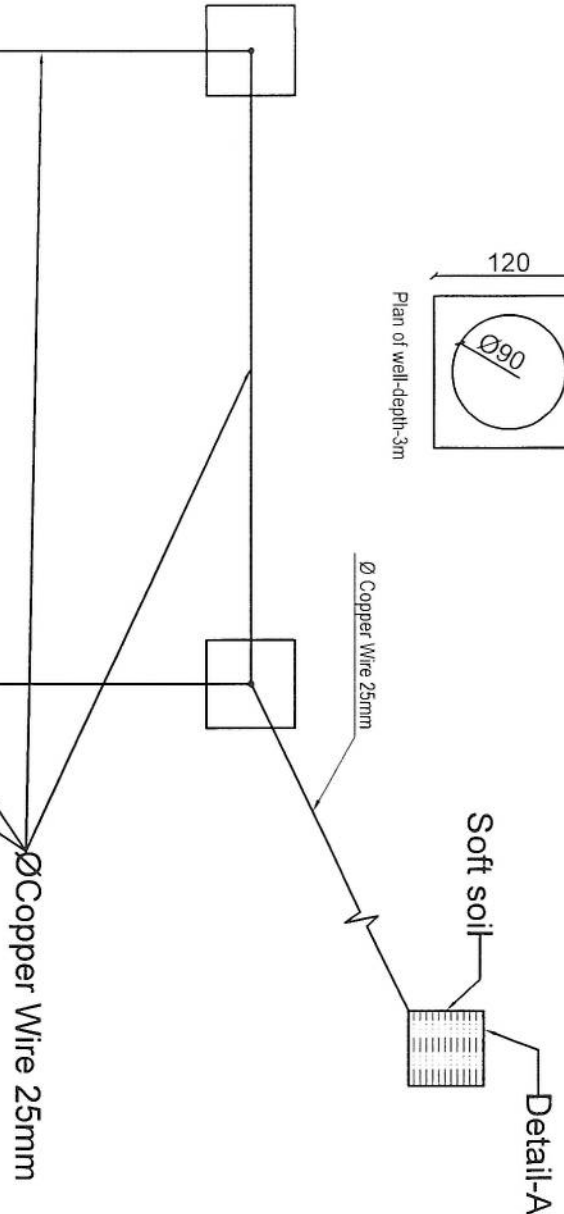
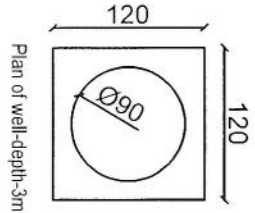
SCALE: 1:75

ACTUAL DATE: 10/05/2025

ISSUE DATE: DRGNO: 23

OWNER: AFGHAN TELECOM

System Telecommunication Company
KABUL
AFGHANISTAN



Item	Quantity	Dimension
Copper Rod	4	1m*Ø16mm
Copper Rod	1	2m*Ø16mm
Bus Bar	5	35cm*5cm*5mm
Copper Plate	1	60cm*60cm*3mm
Lightning Arrestor	1	1m
Ground Cable	60m	25mm
Uncovered Ground Cable	32m	25mm
Tower Light with photo cell	1	48V DC
Power Cable	50m	2*2mm

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