

ردیف	معلومات به اساس سروی از ساحه	معلومات ابتدایه ضروری هر یکم سروی	شماره
1	HRT064	Site ID (سایت)	1
2	A شماره	کدیند شماره	2
3	34.71498 - 62.09210	GPS coordinates	3
4	Rabat_I_Mirza	نام ساحه و منطقه	4
5	رابط سنی	نام و ولایت مربوطه	5
6	Rabat_I_Mirza	(نام ساحه ای که قرار است تحت پوشش سایت بیایند)	6
7	دولتی	مالیکت (یعنی: شخصی یا دولتی)	7
8	دولتی	مالی جایزه/جایزه قابل دسترس است	8
9		شماره تماس مالی یا سکنه جایزه	9
10	دولتی	شخصی/کلی	10
11	دولتی	مالی جایزه یا نصب سایت و شرایط افغان تی دی اف راضی است	11
12	دولتی	موافقه ابتدای ساجوی یا مالی جایزه صورت گرفت؟	12
13	روی زمین	نوعیت سایت (سرم یا روی زمین)	13
14	کوهستانی	چگونگی ساحه (شهری، روستایی، دورست) یا VIP	14
15	نلی	سری که واسطه نقیبه تردد بتواند دارد	15
16	Piont-B (در حدود 150 متر دورت دارد)	آیا به سری جهت تردد واسطه ضرورت است	16
17		چه مقدار سری تردد واسطه ضرورت است (به متر)	17
18		در صورتیکه کدیند سایت سرایت باشد	18
19		نوعیت تعمیر (مسکونی/تجارتی)	19
20		تعداد منازل	20
21		ارتفاع تعمیر	21
22		راه رسیدن به پام (رشته نیروی داخل)	22
23		امکان جابجایی وسایل سرم یا افراد و کتوها است؟	23
24		امکان جابجایی وسایل سرم یا کترین است؟	24
25		ظاهرآ تعمیر قابلیت برداشت سایت را دارد؟	25
26		نوعیت سرم (رنگی، کتیری یا کدیند)	26
27		مساحت موجود سرم (طول و عرض)	27
28		تور مورد نیاز (کدیند مساحت کتیری)	28
29		ارتفاع تور مورد نیاز	29
30		ارتفاع مجموعی تور و تعمیر از سطح زمین منزل	30
31		در صورتیکه کدیند سروی درجی جایزه باشد	31

SITE	ADDRESS	NAME
HRT064	CAND	1
GPS COORDINATE		
Lat	34.71498	
ELEVATION(SEA LEVEL)	1684	
TX	RX	VLAN
DISTANT SITE NAME	ANTENNA SIZE	BEARING
HRT063	1.8	15
HRT066	2.4	340
HEIGHT OF TOWER	Distance (km)	DATE
20	24	27/06/2026
62.0921		

رابطه سازه و لایه های مختلف سازه را در این بخش مشخص کنید

40m Tower

رابطه سازه و لایه های مختلف سازه را در این بخش مشخص کنید

To HRT063
To HRT066

Azimuth 60 NE
درجه 60 شمال شرقی

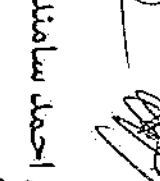
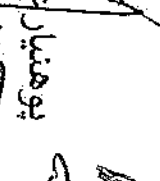
N ↓

سایت های توسعهی ترانسمیشن HRT063, HRT064, HRT066, HRT071 ولایت هرات مورد تأیید رهبری شرکت افغان تیلی کام

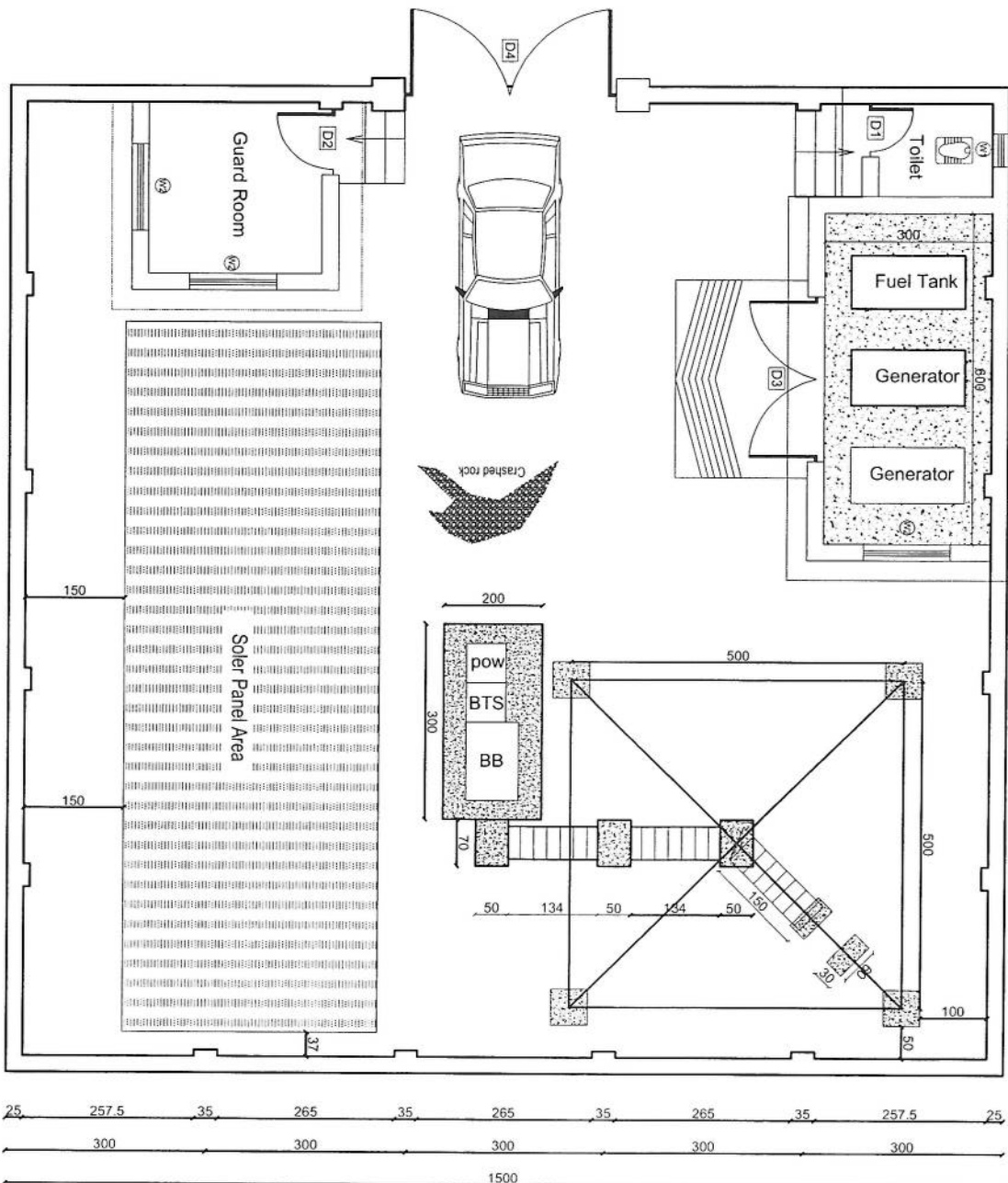
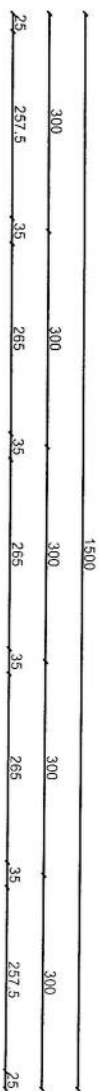
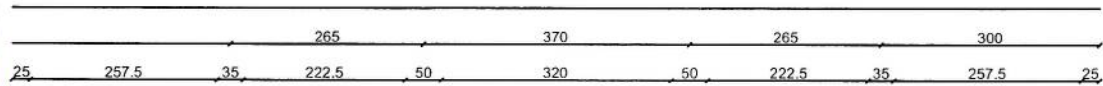
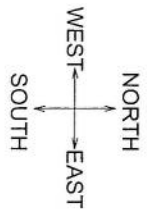
SN	SiteID	LAT	LONG	Province	District	Add	Site Service Type	Near End Site ID	Near End Site Distance	Near End Site Traffic 3G+4G (PS) GB Daily Base	Near End Site Traffic 2G+3G (CS) Erling Daily Base	Tower Type	Tower Height
1	HRT063	34.45159	62.19418	Herat	Robat Sangi	Kotal Surkh	TX Site	HRT369	7.4km	48 Gb	168 Erl	GF	40m
2	HRT064	34.71498	62.0921	Herat	Robat Sangi	Robat Mirza	TX Site	HRT320	9km	64Gb	97 Erl	GF	40m
3	HRT066	34.91919	62.1546	Herat	Robat Sangi	Pir Marzi	TX Site	HRT320	14km	64 Gb	97 Erl	GF	40m
4	HRT071	34.38301	62.19313	Herat	Markaz	Baghi Milat	TX Site	HRT337	1.096km	188 Gb	120 Erl	GF	40m

محمد هارون محمدی	سید محمد افضل افغنی	محمد جان روفی	حکمت الله ستانکزی	سیدالله نوری	ولایت خان عظیمی
واری کننده معاونیت عملیاتی پیسیم	رئیس تحقیقی پیسیم	رئیس ترانسمیشن	آمر RF & BSS	مدیر پلاننگ ترانسمیشن	مدیر RF Optimization



پوهنځیال علی احمد سامند
 رئیس عمومی شرکت افغان تیلی کام



01 SITE PLAN
REF. A101

SCALE: 1:100

REVISION RECORDS			
REVISION NO	DATE	DESCRIPTION	
1	25.03.2026	ISSUE DATE	01

LEGEND:

- (W1) APPROVED PATH
- (W2) APPROVED PATH
- (D1) APPROVED PATH
- (D2) APPROVED PATH
- (D3) APPROVED PATH

PROJECT TITLE / NO
GSM SITES

DRAWING TITLE:
SITE PLAN

DRAWN BY:
CIVIL TEAM

CHECKED BY:

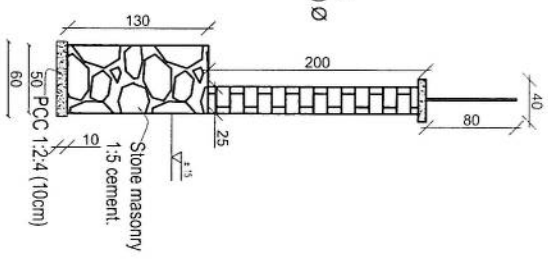
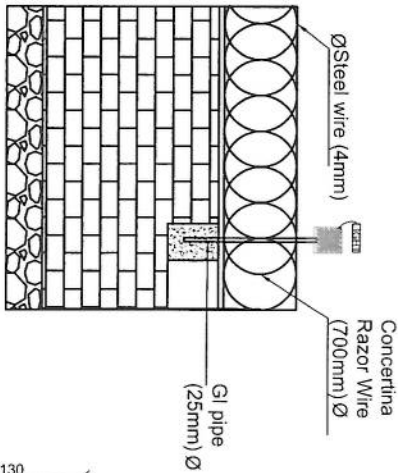
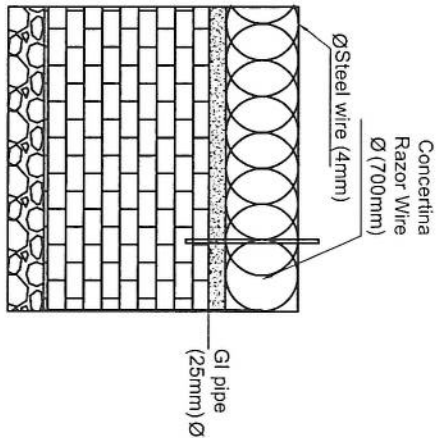
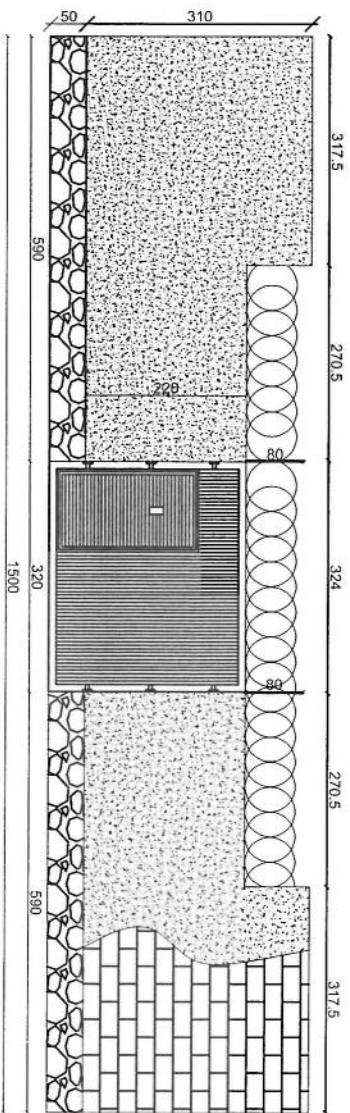
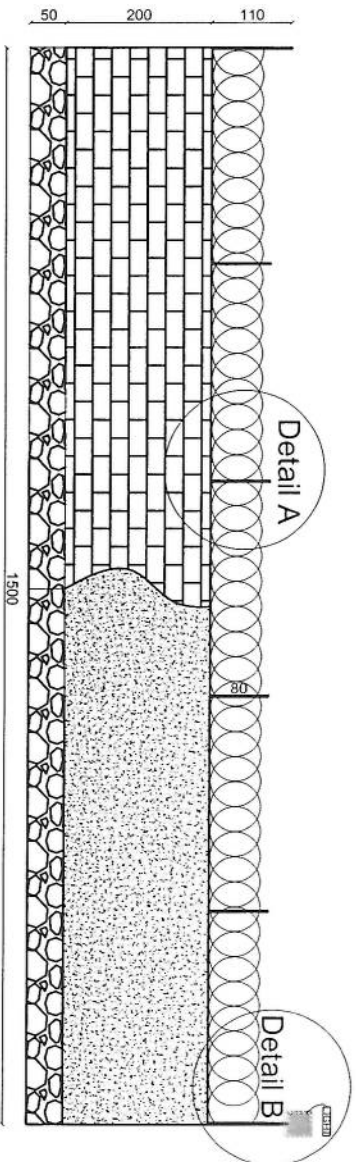
APPROVED BY:

SCALE: 1:100

ACTUAL DATE: 25.03.2026
ISSUE DATE: 01

OWNER: AFGHAN TELECOM

Salam Telekomunikashon Company
AFGHANISTAN



WALL ELEVATIONS & DETAILS
REF. A102
SCALE: 1:100

Detail A

Detail B

REVISION RECORDS	
NO	DESCRIPTION
1	Issued for construction

LEGEND	
Concrete	1:2:4 (10cm)
Masonry	1:2:4 (10cm)
Reinforcement	Ø 10mm
Foundation	1:2:4 (10cm)

PROJECT TITLE / NO	
GSM SITES	

DRAWING TITLE	
WALL ELEVATIONS & DETAILS	

DRAWN BY:	
CIVIL TEAM	
CHECKED BY:	

APPROVED BY:	
SCALE:	
1:100	
ACTUAL DATE:	
25/03/2026	
ISSUE DATE:	
02	
OWNER:	
AFGHAN TELECOM	

LEGEND:

Figure 1. (a) Schematic diagram of the experimental setup. (b) Schematic diagram of the experimental setup.

Wavelength (nm)	Wavelength (nm)	Wavelength (nm)	Wavelength (nm)
400	450	500	550
600	650	700	750
800	850	900	950

0008 1797 1

PROJECT TITLE / NO.

GSM SITES
مواقع GSM

DRAWING TITLE:

QUANTITY ORDERED _____
DATE ORDERED _____
DRAWN BY: _____

CIVIL TEAM

CHECKED BY: _____

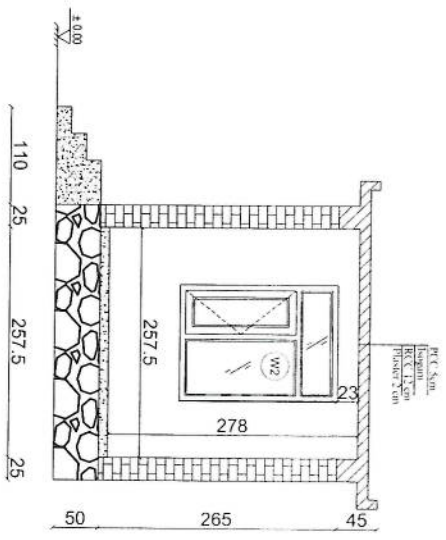
APPROVED BY: J. J. White

SCALE:	1.75	inches
ACTUAL DATE:	25.03.2026	

ISSUE DATE:	DRG NO. 03
OWNER:	2118-5000

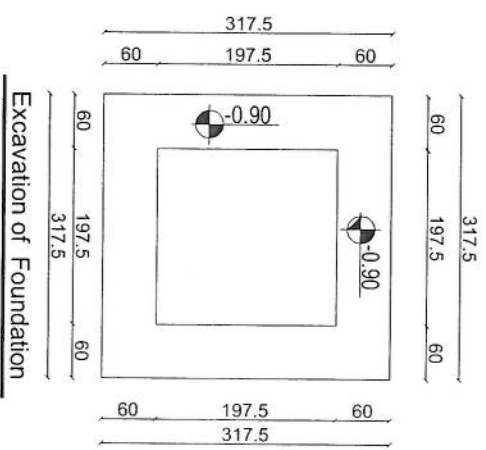
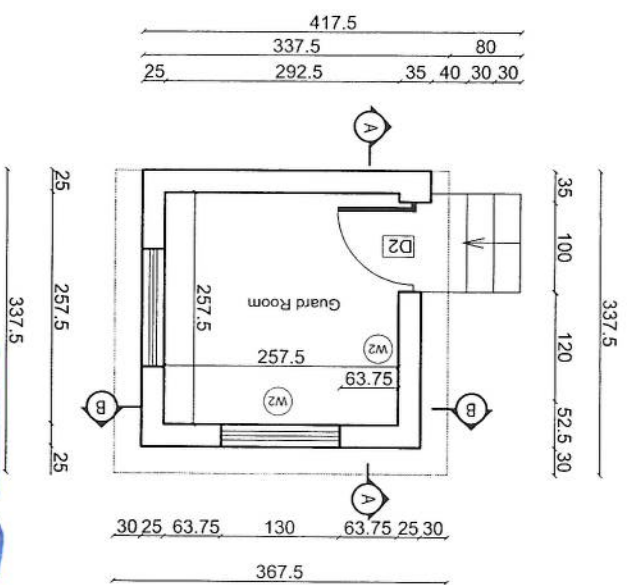
AFGHAN TELECOM

Southern Telecommunications Company
A F O T A S I S A N

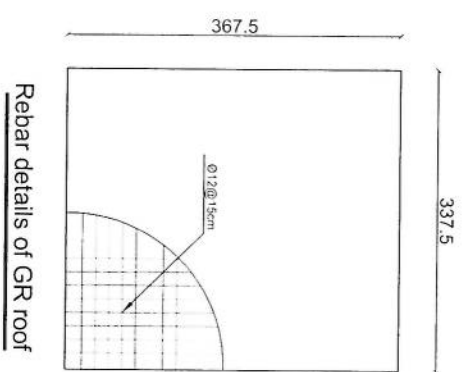


Section AA

Section B-B



Excavation of Foundation



Rebar details of GR roof

03	GUARD ROOM
	REF. A103

SCALE: 1:75

11/17/2017

REVISION RECORDS			
REVISION NO	DATE	DESCRIPTION	
۰۱	۱۳۹۸/۰۵/۰۵	تصحیح خطای تایپ	
LEGEND:			
	100m	1:1000	
	50m	1:1000	
	25m	1:1000	
	12.5m	1:1000	
	6.25m	1:1000	
	3.125m	1:1000	
	1.5625m	1:1000	
	0.78125m	1:1000	
	0.390625m	1:1000	
	0.1953125m	1:1000	
	0.09765625m	1:1000	
	0.048828125m	1:1000	
	0.0244140625m	1:1000	
	0.01220703125m	1:1000	
	0.006103515625m	1:1000	
	0.0030517578125m	1:1000	
	0.00152587890625m	1:1000	
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	0.0003814697265625m	1:1000	
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55	نظرات: RF بحثی	Point-A is better than Point-B
54		
53	کفایت خدمات سلام در ساحه	نه خیر
52	خدمات سلام در ساحه موجود است؟	نه خیر
51	خط دید وصل مایکروویف با آنتن آرایشگاه باید چک و تأیید شود	چک گزیده است
50	عکسهای پاترورینگ از ساحه گرفته شود	Yes
49	مسکین ساحه سایت (ترقی و نظم (نور سروی شود)	
48	شماره	0749416198/0744418134/0745005310
47	دینارمنیت	RF BSS
46	نام	HABIB/ESMAIL/M.Hanif
45	نیم سروی	RF/TX/CIVIL
44	فاصله برج برق از ساحه سایت	
43	برق شوری در ساحه وجود دارد؟	No
42	ساحه برق برای سولر موجود است؟	موجود میباشد
41	امکانات نصب سولر است؟	دارد
40	سایه بان و سلفی مورد نیاز چتراتور و تانکر	اتاق ضرورت دارد
39	(BTS and all racks) سایه بان و سلفی برای مختارقی	ضرورت دارد
38	امکانات وصل ترانسیمیشن سایت (TX type)	(یا نیم TX چک گزید)
37	انتقال تا وورد نیاز	40
36	تاور (کلی) روی زمین یا سلفی ضرورت)	GF
35	محل بودیش کار در ضرورت ضرورت	ضرورت دارد
34	توجهیت احاطه در ضرورت ضرورت	احاطه چکیت بخت
33	ساحه مورد نیاز سایت (طول عرض)	20*15m
32	ساحه موجود (طول عرض)	20*15m
31	توجهیت ساحه (ساحه باز یا ساحه محاط)	

REVISION RECORDS		
REVISION NO	DATE	DESCRIPTION
01	25/03/2026	Issued for construction

LEGEND

REINFORCED CONCRETE

STONE MASONRY

GRAVEL

COMPACTED SOIL

PROPOSED

EXISTING

TOILET

WELL

SECTION C-C

TOILET

WELL

SECTION C-C

TOILET

WELL

SECTION C-C

TOILET

WELL

SECTION C-C

TOILET

WELL

SECTION C-C

TOILET

WELL

SECTION C-C

TOILET

WELL

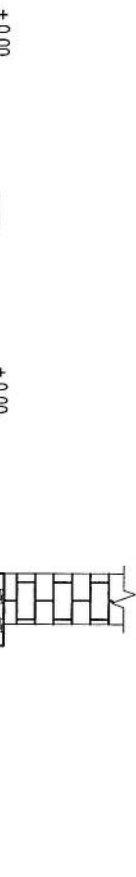
SECTION C-C

TOILET

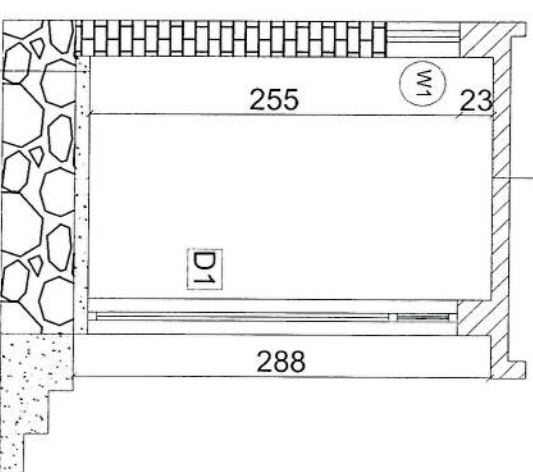
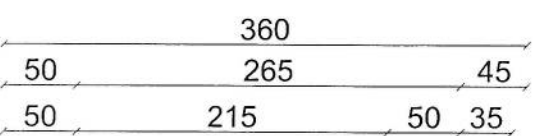
WELL

SECTION C-C

TOILET



Stone masonry
1:5 cement.
PCC 1:2:4 (10cm)

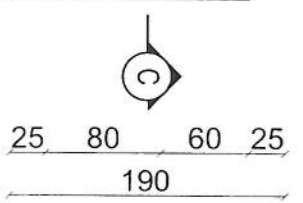
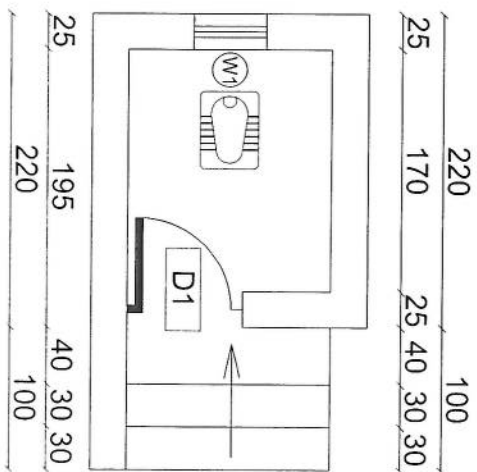
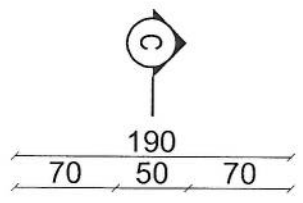


PCC 5cm
Isogram
RCC 12 cm
Plaster 2 cm

PCC, 10CM
GRAVEL, 15CM
COMPACTED SOIL 30CM

Section C-C

Well for toilet



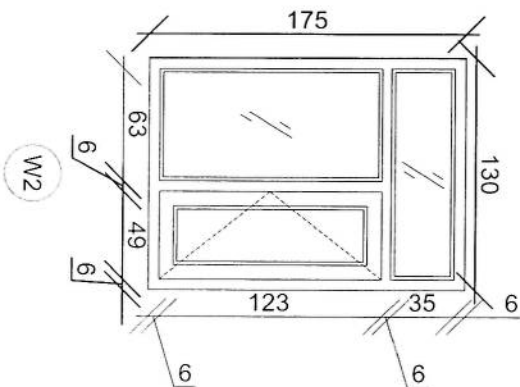
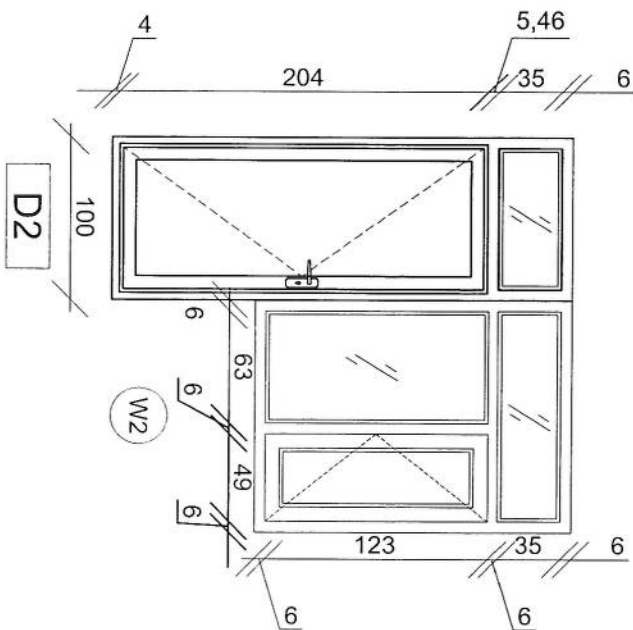
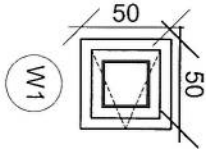
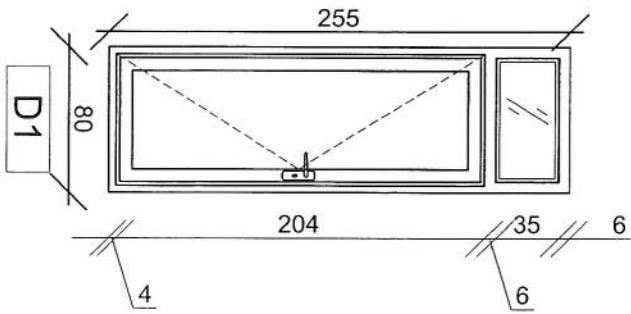
Toilet

TOILET
REF. A105

SCALE: 1:50

05

SAHNI ENGINEERING COMPANY
AFGHAN TELECOM



06 REF. A106

DOORS & WINDOWS DETAILS

SCALE: 1:25

REVISION RECORDS

REVISION NO	DATE	DESCRIPTION
1	25/03/2026	ISSUE DATE

LEGEND

W1	DOOR TYPE 1
W2	DOOR TYPE 2
D1	DOOR TYPE 1
D2	DOOR TYPE 2

PROJECT TITLE / NO

GSM SITES

DRAWING TITLE

DOORS & WINDOWS DETAILS

DRAWN BY

CIVIL TEAM

CHECKED BY

APPROVED BY:

SCALE:

1:25

ACTUAL DATE:

25/03/2026

ISSUE DATE:

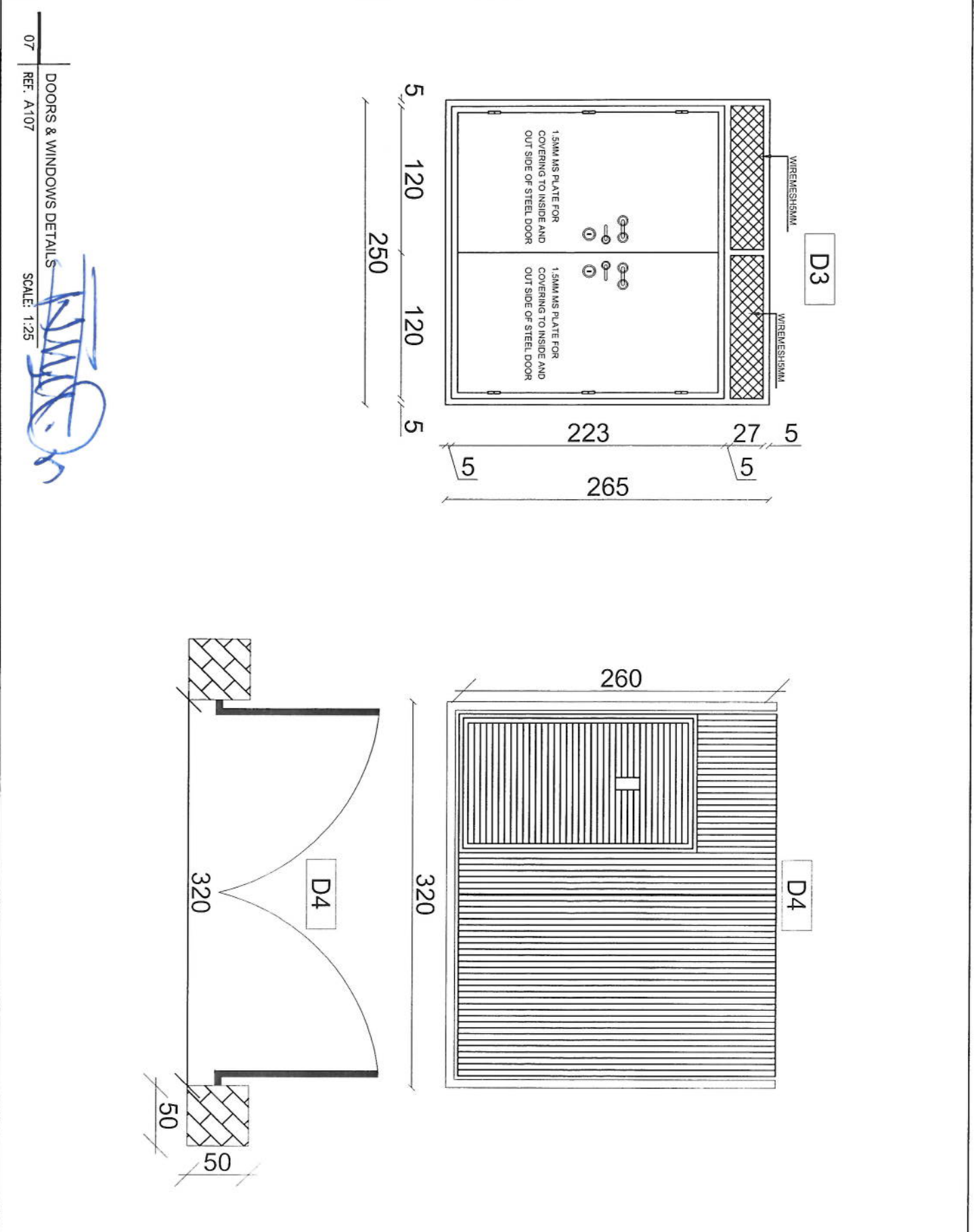
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OWNER

AFGHAN TELECOM

System Integration Company

Afghanistan



DOORS & WINDOWS DETAILS

REF. A107

SCALE: 1:25

[Handwritten signature]

REVISION RECORDS			
REVISION NO	DATE	DESCRIPTION	
LEGEND:			
			
D1	2020-03-29		
D2	2020-03-29		
PROJECT TITLE / NO:			
GSM SITES			
DRAWING TITLE:			
DOORS DETAILS			
DRAWN BY:			
CIVIL TEAM			
CHECKED BY:			
APPROVED BY:			
SCALE: 1:25			
ACTUAL DATE: 29.03.2020		DRG NO: 07	
OWNER:			
AFGHAN TELECOM			
Sikstan Engineering Company			
AFGHANISTAN			

LEGEND:

5828

1

10

10

10

100

1

7

10

100

DRAWN BY

--	--

1

10

SCALE:

2610312

7

AFGHAN

1

1

--

Technical drawing of a rectangular reinforced concrete slab. The overall dimensions are 200 cm in width and 300 cm in length. The slab is divided into two main sections by a vertical line. The left section is labeled '1' and the right section is labeled '2'. The right section contains a grid of reinforcement bars, labeled $\text{Ø}12@20\text{cm}$. A detail view of the corner reinforcement is shown in the top right corner, labeled $\text{Ø}12@20\text{cm}$.

$N=16 \text{ Ø}12\text{mm}@20\text{cm } L=1.63$

Outdoor BTS Foundation

1-1 section

2-2 section

	ZTE OUTDOOR BTS FOUNDATION
08	REF. A108 SCALE

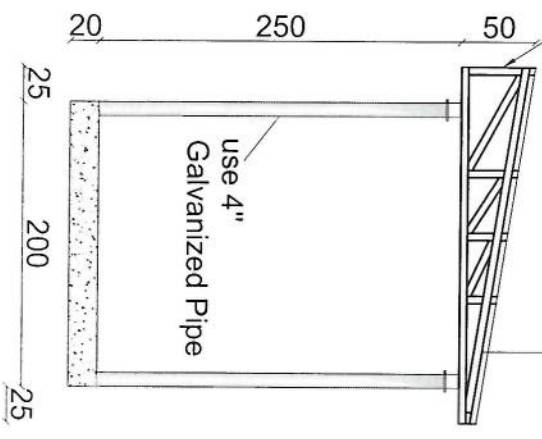
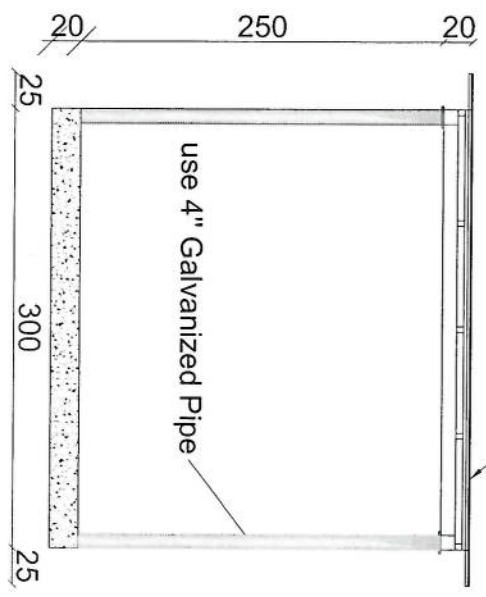
SCALE: 1:25

REVISION RECORDS تاريخ التغيير تاريخ المراجعة	
REVISION NO رقم المراجعة	DESCRIPTION الوصف
LEGEND:	
 Reinforced concrete	 Brick
 200mm plaster	 100mm plaster
 RCC	 100mm brick
 100mm S.F.	 200mm S.F.
PROJECT TITLE: NO	
GSM SITES مواقع المحطات الخلوية	
DRAWING TITLE: ZTE OUTDOOR BTS FOUNDATION أساس المحطات الخلوية	
DRAWN BY: CIVIL TEAM	CHECKED BY: المهندس
APPROVED BY: المهندس	
SCALE: 1:25	DATE: 25.03.2018
ISSUE DATE:	DWG NO: 08
OWNER: أفغان تيليكوم	
AFGHAN TELECOM	
Scamm Afghanistan Company AFGHANISTAN	

Use 24 Gage GI Sheet

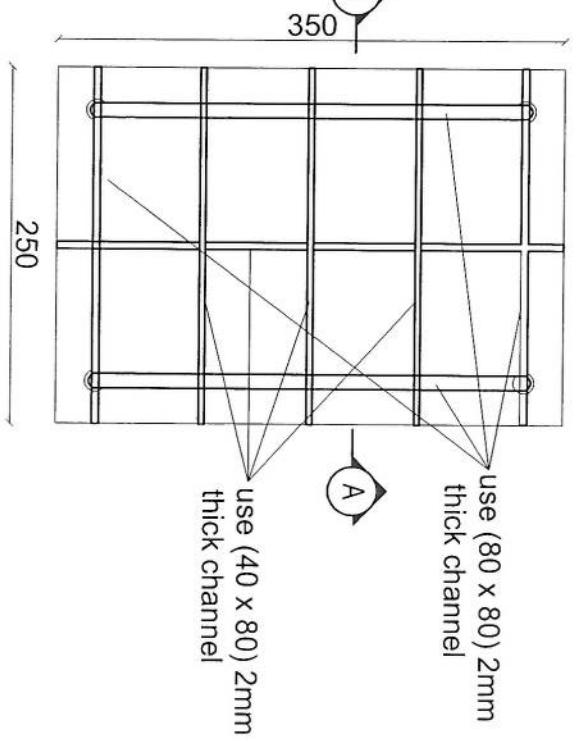
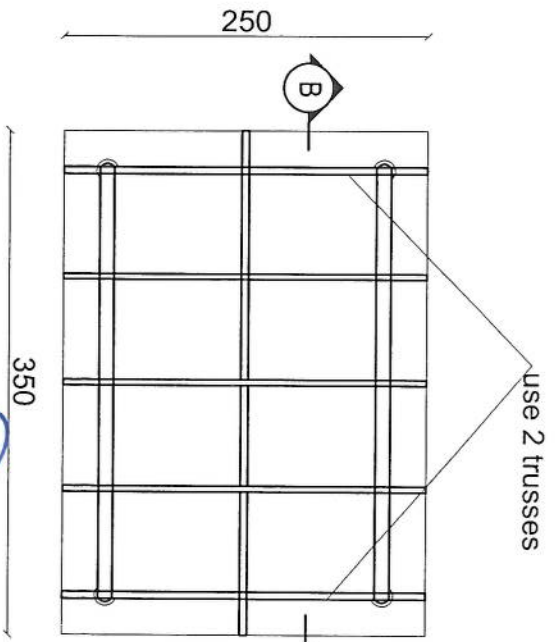
24 Gage GI Sheet

24 Gage GI sheet



Section BB

Section AA



SUN SHELTER FOR ZTE BTS

SCALE: 1:50

Handwritten signature and date: 25/03/2026

REVISION RECORDS		
NO	DATE	DESCRIPTION

LEGEND:



PROJECT TITLE / NO
GSM SITES

DRAWING TITLE

SUN SHELTER FOR ZTE BTS
BTS

DRAWN BY:
CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE: 1:50

ACTUAL DATE: 25.03.2026
ISSUE DATE: DRG NO: 09

OWNER:
AFGHAN TELECOM

Sakani Telecommunication Company
AFGHANISTAN

G

F

E

D

C

B

A



[Handwritten signature]

TOWER TYPE "AK1"

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

1

2

3

4

5

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

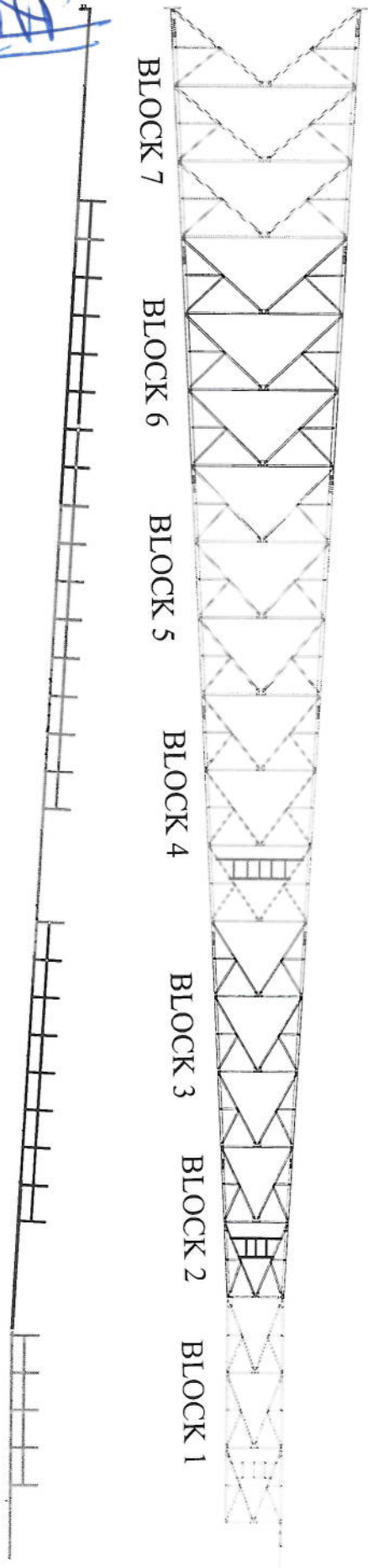
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G F E D C B A

RED	WHITE	RED	WHITE	RED
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40M TOWER VIEW



SCALE:	FORMAT: AT	DESIGN STAGE: DETAIL DESIGN	REV: 0	1 OF 20
DAKSAZAN DWG NO:				
DESIGN AND MANUFACTURER: DAKSAZAN KALAN CO.				
CONTRACTOR: SULTAN MYSOON ENGINEERING & LOGISTICS SERVICES				
TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4				
CLIENT: AFGHAN TELECOM				
REV	DESCRIPTION	DATE	BY	DATE
2				
1				
0				

5

4

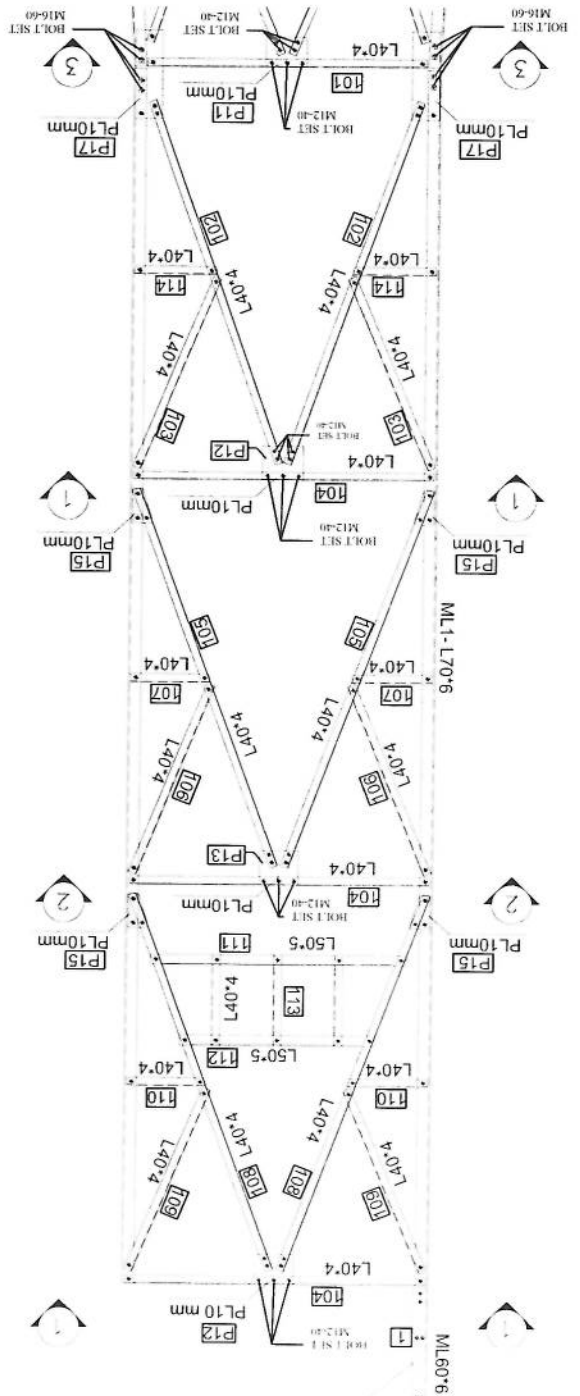
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2

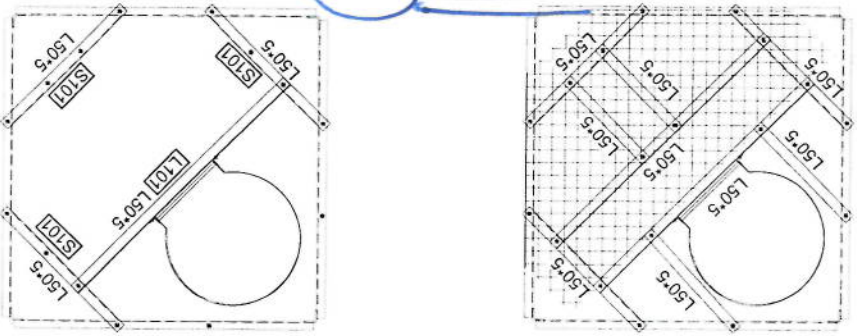
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A B C D E F G

BLOCK 1



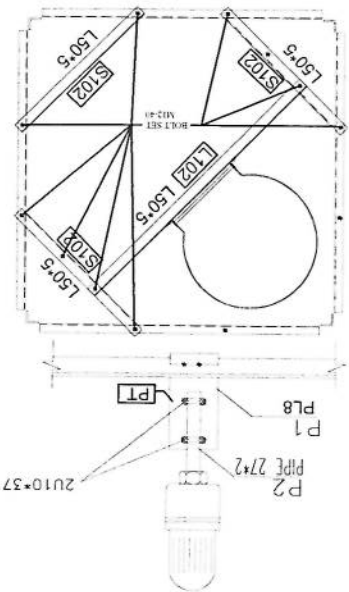
SECTION 2-2



SECTION 2-2



SECTION 3-3



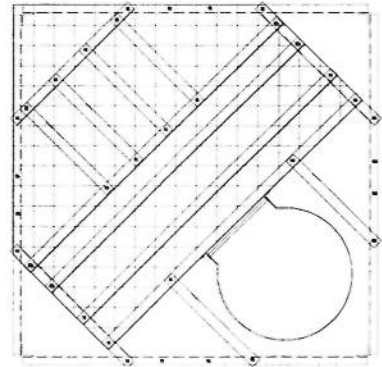
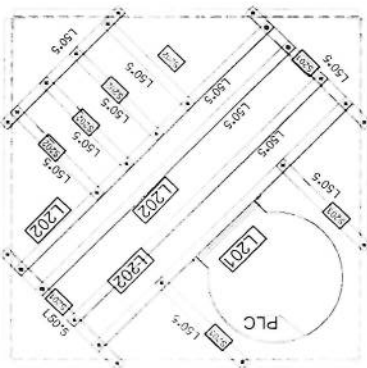
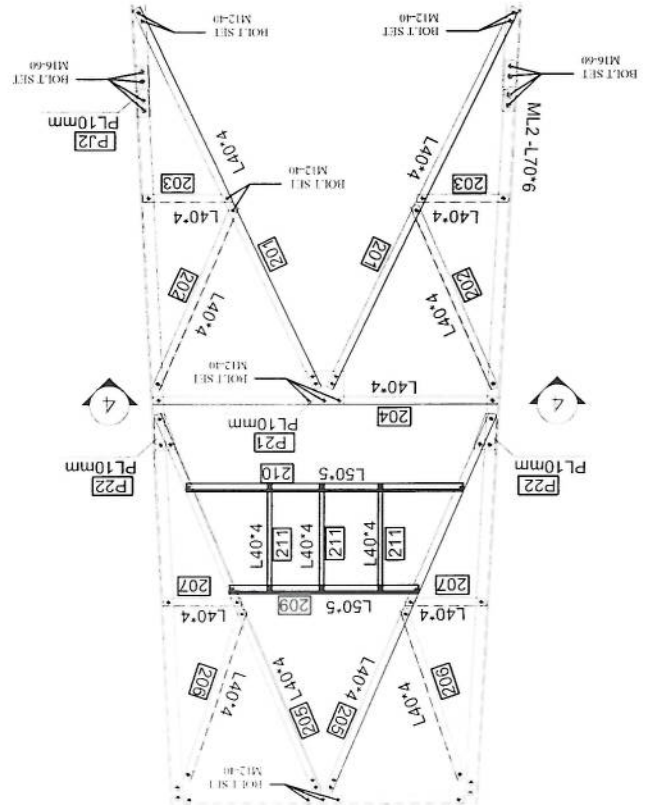
NOTE:
1. ALL BOLT SET IN BRACING ARE M12-40
2. ALL BOLT SET IN MAIN LEGS ARE M16-60

PROFILES GRADE LEGEND

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

Block	Mark	Description	Length	WEIGHT	NUMBER	Total Weight
BL1	1	WT 1	1.70X56	38.9058	4	155.9832
BL1	101	L 40X4	1.38	3.397146	4	13.588584
BL1	102	L 40X4	1.935	4.7587725	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	5.021868	8	40.174944
BL1	106	L 40X4	1.004	2.4715468	8	19.772744
BL1	107	L 40X4	0.375	0.9251375	8	7.3851
BL1	108	L 40X4	2.043	5.0292531	8	40.234048
BL1	109	L 40X4	1.006	2.4741702	8	19.8117616
BL1	110	L 40X4	0.375	0.9251375	8	7.3851
BL1	111	L 50X5	1.21	4.648699	4	18.594796
BL1	112	L 50X5	0.375	0.9251375	8	7.3851
BL1	113	L 40X4	0.495	1.2183415	12	13.523488
BL1	114	L 40X4	0.396	0.9748332	8	7.796656
BL1	115	L 40X4	3.16 Weight 111.638 (0.25mm) 111.638	2.5	28.325	28.325
BL1	116	Heavy Mesh	1.465	5.6283835	3	16.8851505
BL1	117	L 50X5	1.449	5.5669131	1	5.5669131
BL1	118	L 50X5	1.954	1.954	8	15.4912
BL1	119	PL 150*160*10	1	1.954	4	7.7456
BL1	120	PL 240*160*10	1	1.954	4	12.4012
BL1	121	PL 187*110*10	1	3.1003	4	12.4012
BL1	122	PL 308*120*10	1	1.6385	16	26.2328
BL1	123	PL 400*150*8	1	2.987	8	23.896
BL1	124	PL 308*50*10	1	1.2463	8	9.9704
BL1	125	L 60X6	1	3.8831	1	3.8831
BL1	126	L 60X6	0.6	3.31866	1	3.31866
BL1	127	L 10*37	1	0.206	2	0.412
BL1	128	L 10*30	1	0.206	2	0.412
BL1	129	BOLT SET M12-40	1	0.06798	410	27.8718
BL1	130	BOLT SET M16-60	1	0.16274	32	5.20768
BL1	131	WASHER	1	0.008446	412	3.733132
TOTAL WEIGHT						705.96 KG

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



Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL.2	ML.2	L70X6	4.005	26.0296965	4	104.118786
BL.2	201	L40X4	2.303	5.662951	8	45.353608
BL.2	202	L40X4	1.083	2.660211	8	21.3281688
BL.2	203	L40X4	0.425	1.0462225	8	8.36978
BL.2	204	L40X4	1.69	4.160273	4	16.641092
BL.2	205	L40X4	2.32	5.711144	8	45.689152
BL.2	206	L40X4	1.115	2.7447955	8	21.958364
BL.2	207	L40X4	0.37	0.910829	8	7.286632
BL.2	209	L50X5	0.96	3.688224	4	14.752896
BL.2	210	L50X5	1.38	5.301822	4	21.207288
BL.2	211	L40X4	0.585	1.4400945	12	17.281134
BL.2	S 201	L50X5	0.877	3.3693463	3	10.1080389
BL.2	S 202	L50X5	0.519	1.9939461	4	7.9757844
BL.2	S 203	L50X5	0.579	2.2244601	2	4.4489202
BL.2	L 201	L50X5	1.723	6.6195937	1	6.6195937
BL.2	L 202	L50X5	1.723	6.6195937	3	19.8587811
BL.2	Washer	PL100X40X8	1	0.2575	10	2.575
BL.2	Bolt Set	M16-60	1	0.16274	32	5.20768
BL.2	Bolt Set	M12-40	1	0.06798	304	20.66592
BL.2	P 21	PL240*160*10	1	3.1003	4	12.4012
BL.2	P 22	PL119*110*10	1	1.0609	8	8.4872
BL.2	P12	PL320*60*10	1	1.5553	8	12.4424
BL.2	M12	L60X6	0.32	1.769952	4	7.079808
BL.2	MESH	HEVY MESH	2.5	28.325	1	28.325
BL.2	WASHER		1	0.08446	336	2.837856
TOTAL WEIGHT						473.02 Kg

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

AFGHAN TELECOM

APPROVAL DRAWING

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

PANTEL 4

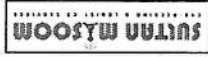
CONTRACT NO.

DESIGN AND MANUFACTURE

DARULSAZAN CO.

SCALE: DRAWING AT 1:50

DATE: 1 OF 20

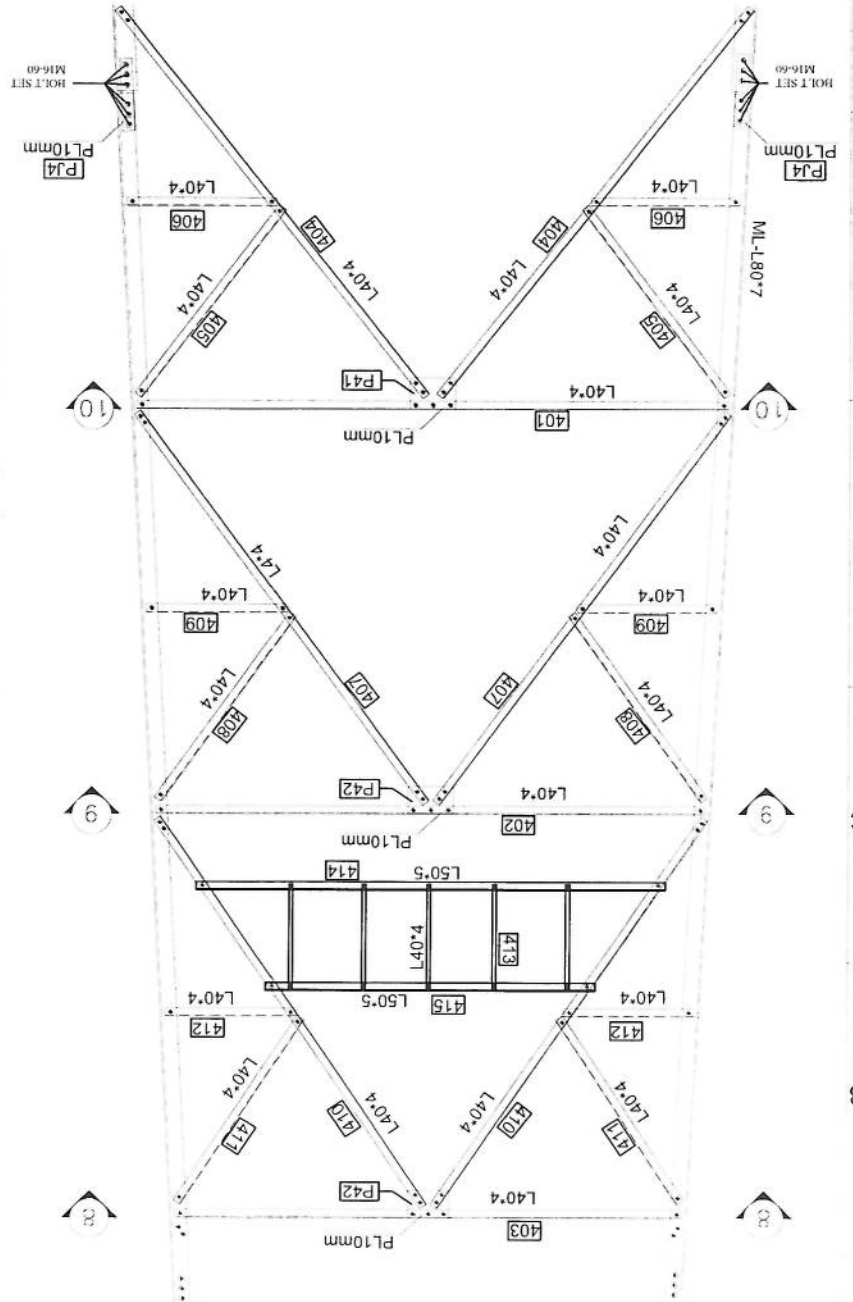
REV	DATE	BY	CHKD	APPD
1	07/20			
 				
APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4				
AFGHAN TELECOM				
CLIENT:				
PROJECT:				
DRAWING NO:				
SCALE:				

PROFILES GRADE LEGEND

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

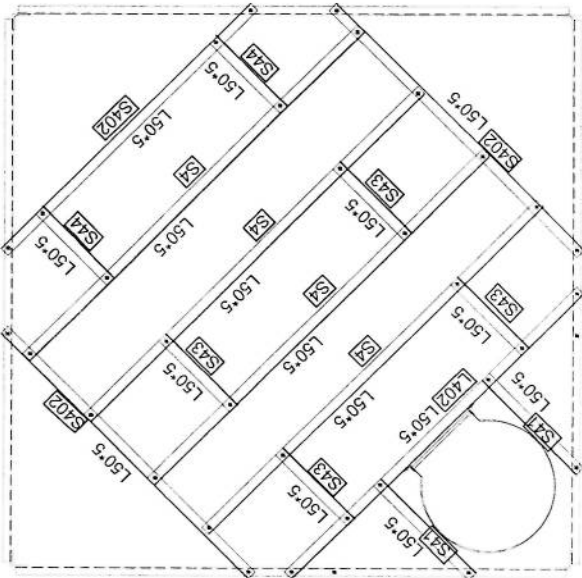
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BLOCK 4

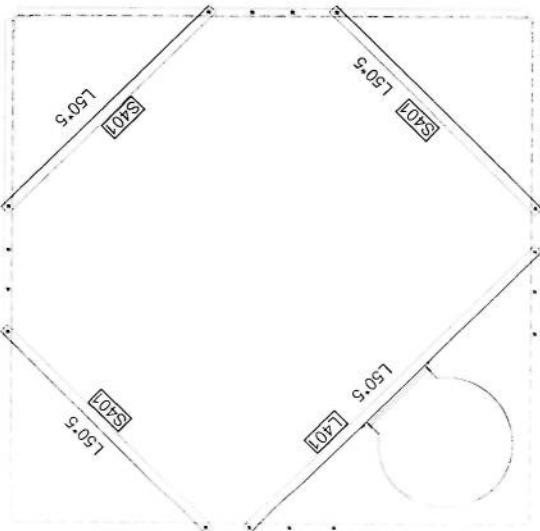


NOTE:
1. ALL BOLT SET IN BRACING ARE M12-40
2. ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
3. ALL PLATE AND JOINT PLATE ARE PLATE 10mm

SECTION 9-9

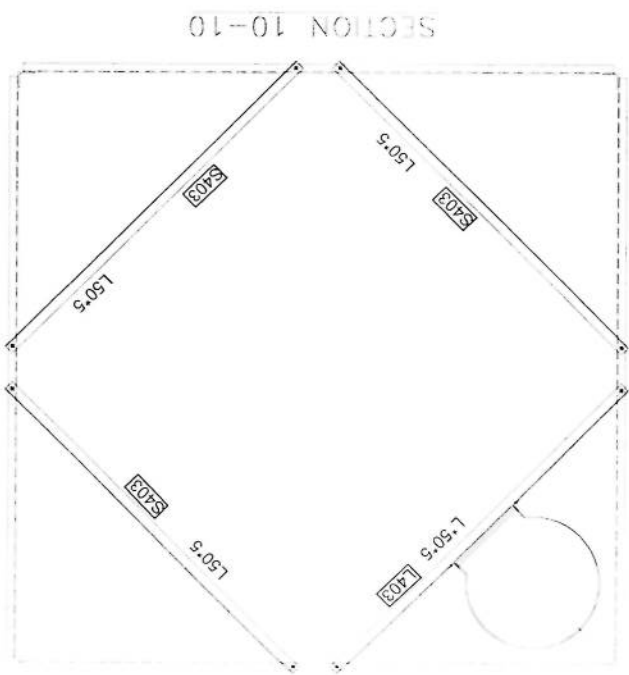
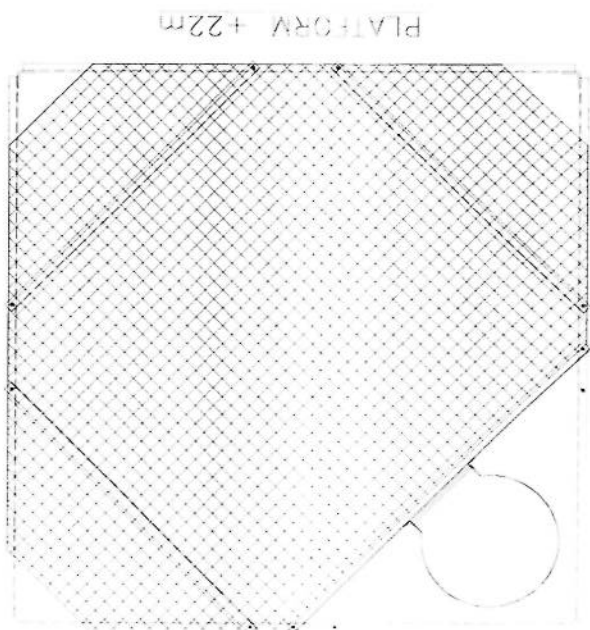


SECTION 8-8



A B C D E F G

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL4	ML4	L80X7	6.005	52.0171115	4	208.068446
BL4	401	L40X4	2.955	7.2743235	4	29.097294
BL4	402	L40X4	2.75	6.69675	4	27.0787
BL4	403	L40X4	2.534	6.2379478	4	24.9517912
BL4	404	L40X4	2.444	6.0163948	8	48.1311584
BL4	405	L40X4	1.185	2.9171145	8	23.336916
BL4	406	L40X4	0.71	1.747807	8	13.982456
BL4	407	L40X4	2.38	5.858846	8	46.870768
BL4	408	L40X4	1.158	2.8506486	8	22.8051888
BL4	409	L40X4	0.664	1.6345688	8	13.0765504
BL4	410	L40X4	2.321	5.7136057	8	45.7088456
BL4	411	L40X4	1.132	2.786444	8	22.2931552
BL4	412	L40X4	0.617	1.5188689	8	12.1509512
BL4	413	L40X4	0.545	1.3416265	20	26.83253
BL4	414	L50X5	2.293	8.8094767	4	35.2379068
BL4	415	L50X5	1.59	6.108621	4	24.434484
BL4	L401	L50X5	1.995	7.6645905	1	7.6645905
BL4	S401	L50X5	1.519	5.8358461	3	17.5075383
BL4	S402	L50X5	1.7	6.53123	3	19.59369
BL4	S403	L50X5	1.986	7.6300134	3	22.8900402
BL4	L402	L50X5	1.986	7.6300134	1	7.6300134
BL4	L403	L50X5	1.986	7.6300134	1	7.6300134
BL4	S4	L50X5	1.887	5.3287153	4	21.3148612
BL4	S44	L50X5	0.61	2.343559	2	4.687118
BL4	S41	L50X5	0.62	2.381978	2	4.763956
BL4	S43	L50X5	0.467	1.7941673	4	7.1766692
BL4	P41	PL300*200*10	1	4.8513	4	19.4052
BL4	P42	PL300*200*10	1	4.8513	4	19.4052
BL4	P43	PL300*200*10	1	4.8513	4	19.4052
BL4	MU4	L70X6	0.42	2.729706	4	10.918824
BL4	PJ4	PL420*80*10	1	2.7192	8	21.7536
BL4	Bolt Set	M16-60	1	0.16274	64	10.41536
BL4	Bolt Set	M12-40	1	0.06798	372	25.28856
BL4	Washer	PL100X40X8	1	0.2575	20	5.15
BL4	MESH	HEVY MESH	5.1	57.783	1	57.783
BL4	WASHER		1	0.008446	436	3.682456
				TOTAL WEIGHT		938.12 kg



AFGHAN TELECOM

APPROVAL DRAWING

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

PANEL 4

DESIGN AND MANUFACTURE

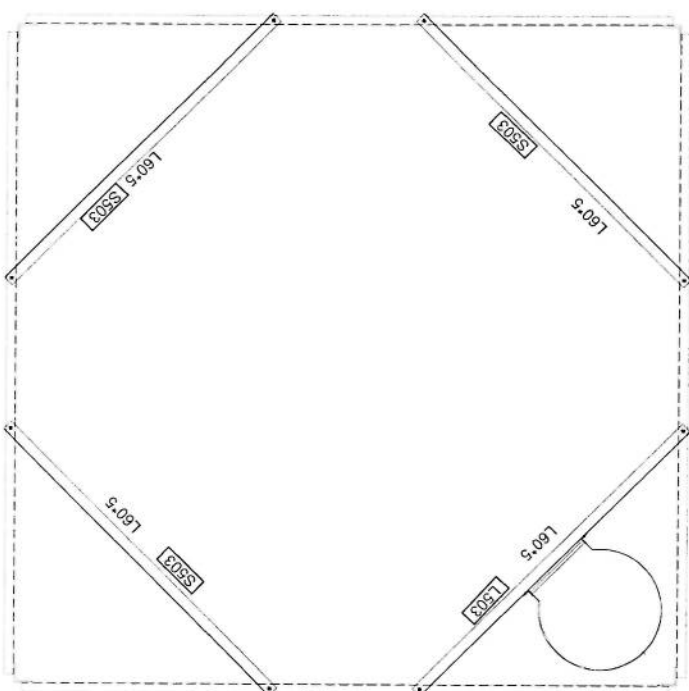
DAKATAZAN KALAN CO.

SK

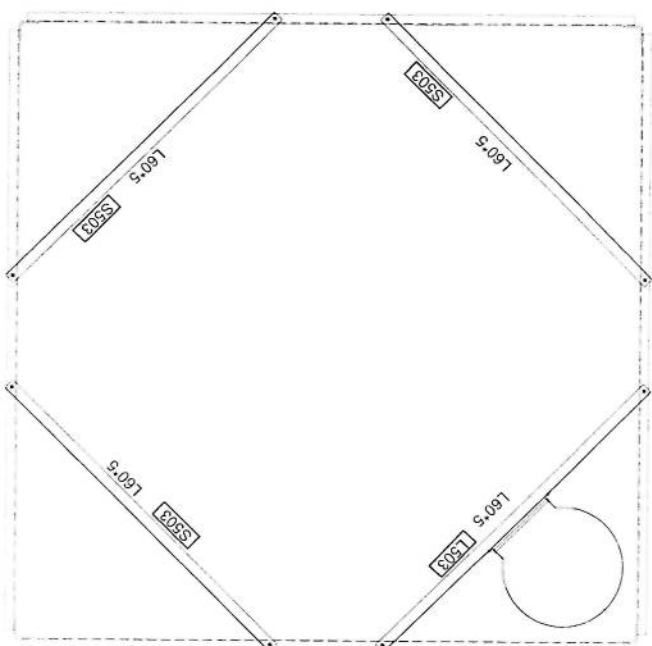
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DATE: 10/12/20

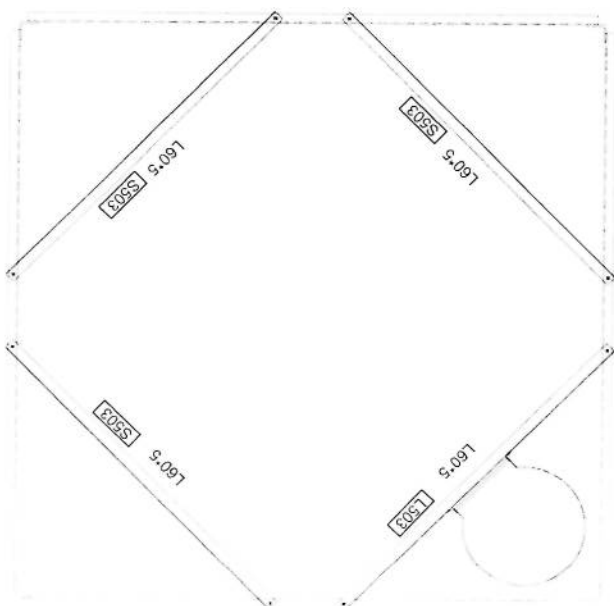
SECTION 13-13



SECTION 12-12



SECTION 11-11



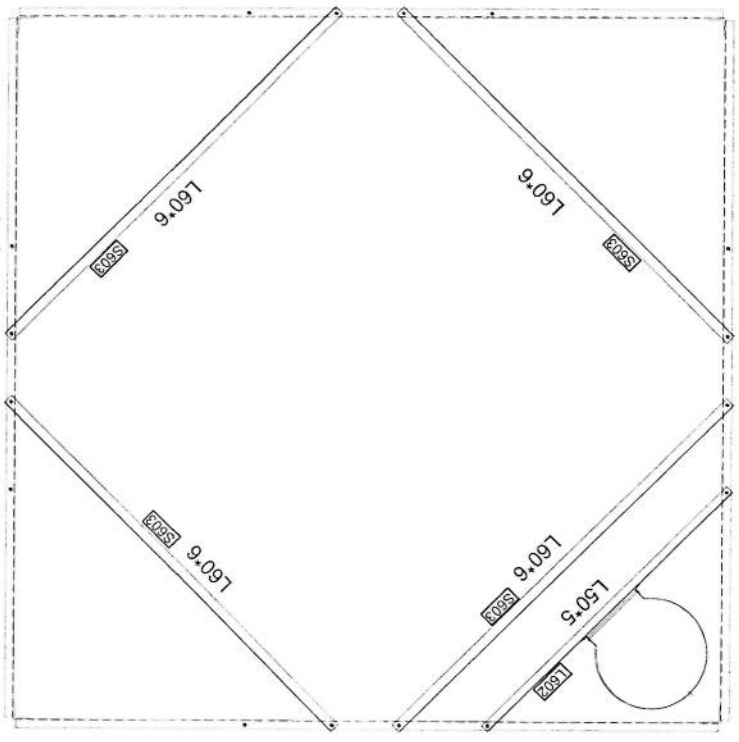


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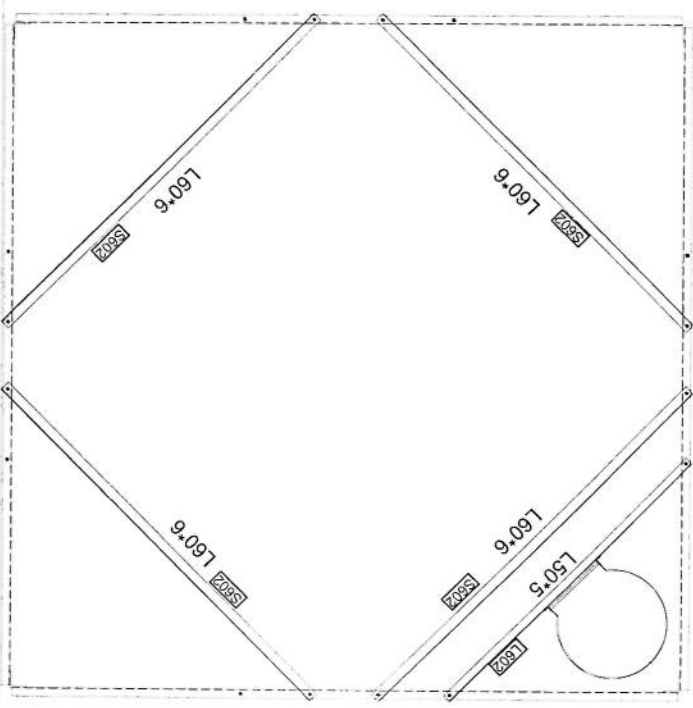
A B C D E F G

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

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL 6	ML 6	L100X10	6.005	92.282438	4	369.129752
BL6		L50X5	4.205	16.1551895	4	64.620758
BL6		L50X5	3.999	15.3637581	4	61.4550324
BL6		L50X5	3.793	14.5723267	4	58.2893068
BL6		L50X5	2.856	10.9724664	8	87.7797312
BL6		L40X4	1.342	3.3036014	8	26.4288112
BL6		L40X4	0.954	2.3484618	8	18.7876944
BL6		L50X5	2.781	10.6843239	8	85.4745912
BL6		L40X4	1.306	3.2149802	8	25.7198416
BL6		L40X4	0.906	2.2303002	8	17.8424016
BL6		L50X5	2.708	10.4038652	8	83.2309216
BL6		L40X4	1.271	3.1288207	8	25.0305656
BL6		L40X4	0.858	2.1121386	8	16.8971088
BL6		L50X5	2	7.6838	1	7.6838
BL6		L50X5	1.999	7.6799581	2	15.3599162
BL6		L60X6	2.434	13.4626974	4	53.8507896
BL6		L60X6	2.578	14.2591758	4	57.0367032
BL6	S 603	L60X6	2.724	15.0667164	4	60.2668656
BL6	P 61	PL300*200*10	1	4.8513	4	19.4052
BL6	P 62	PL300*200*10	1	4.8513	4	19.4052
BL6	P 63	PL300*200*10	1	4.8513	4	19.4052
BL6	PJ 6	PL420*90*10	1	3.0591	8	24.4728
BL6	MJ6	L80X7	0.42	3.638166	4	14.552664
BL6	Bolt Set	M16-60	1	0.16274	64	10.41536
BL6	Bolt Set	M12-40	1	0.06798	318	21.61764
BL6	Washer		1	0.008446	382	3.226372
TOTAL WEIGHT						1267.39 Kg



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

APPROVAL TELECOM

DESIGN AND MANUFACTURE
KALAN CO.
BAMAKAZAN

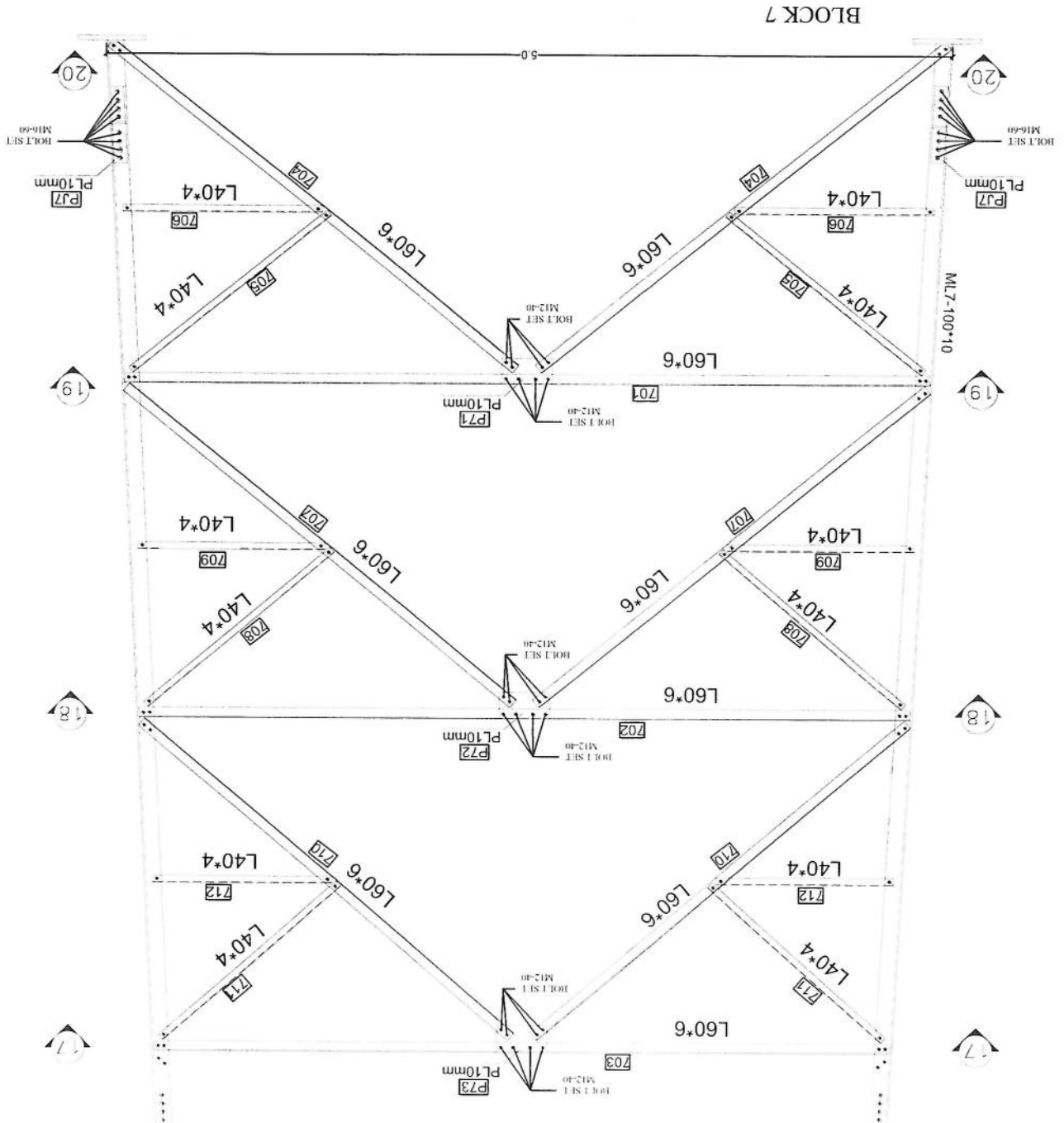
SCALE: 1:100
DATE: 01/07/20

CLIENT	AFGHAN TELECOM
NO.	2
REVISION	DESCRIPTION
DATE	DATE
APPROVAL	APPROVAL
FOR TOWER TYPE 40-160-EPA10(AK1-40m)	
PANEL 4	
CONTRACTOR	
DESIGN AND MANUFACTURE	
DAKSAZAN KALAN CO.	
SCALE	
DESIGN STAGE	
DATE	
SHEET NO.	
SHEET TOTAL	

PROFILES GRADE LEGEND

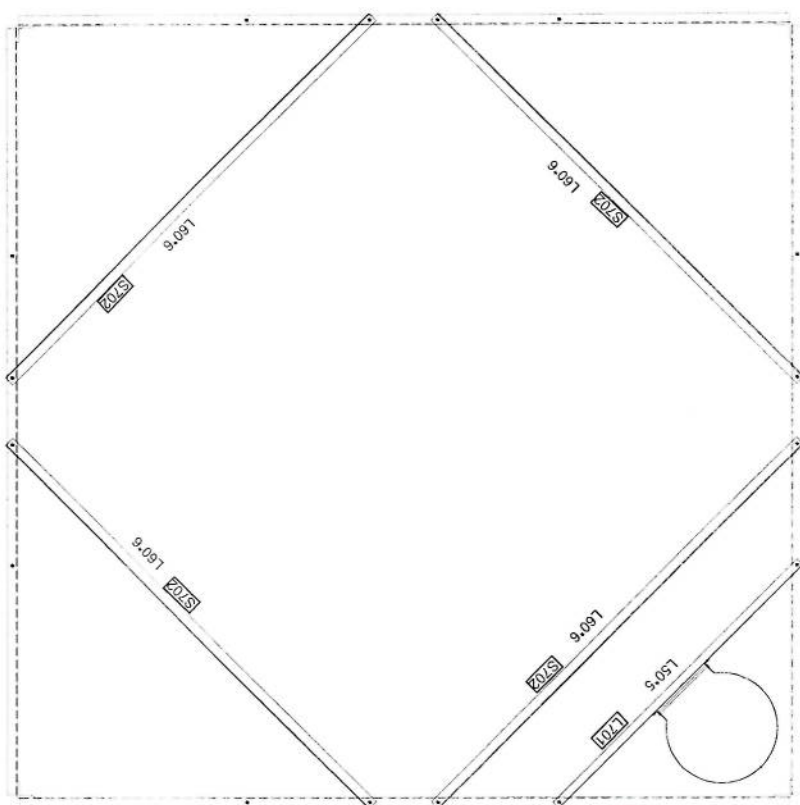
1-L = ST37
2-ML = ST50
3-HT = ST52
4-ALL JOINT PLATES ARE ST52

[Handwritten signature]

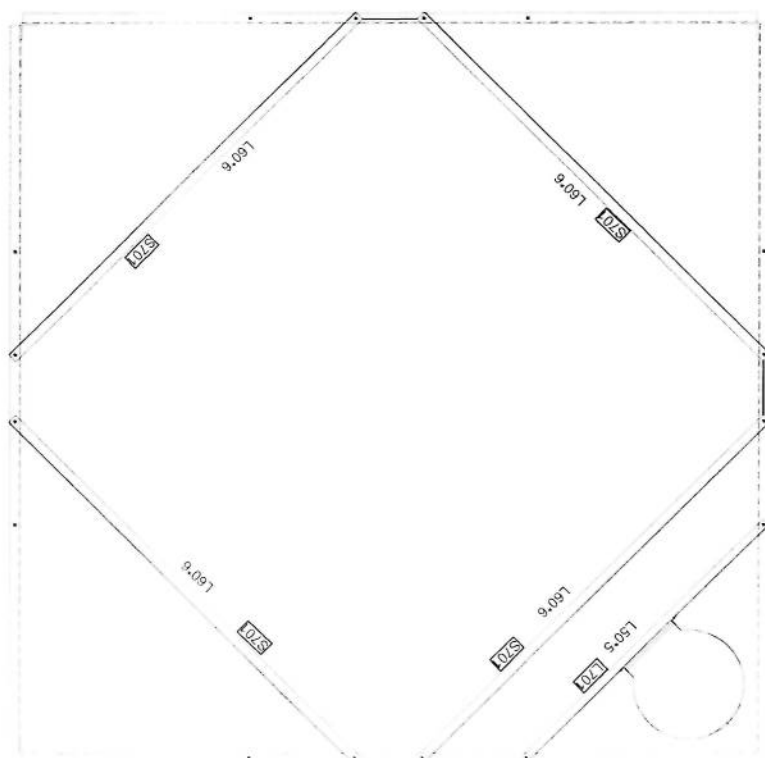


NOTE:
1. ALL BOLT SET IN BRACING ARE M12-40
2. ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
3. ALL PLATE AND JOINT PLATE ARE PLATE 10mm

SECTION 18-18

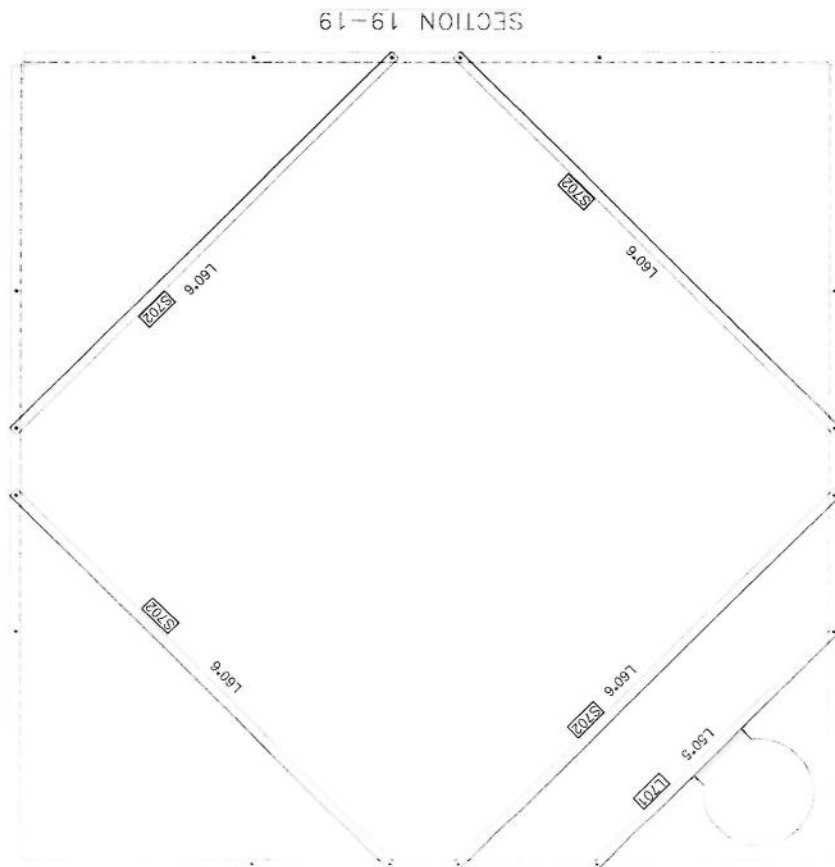


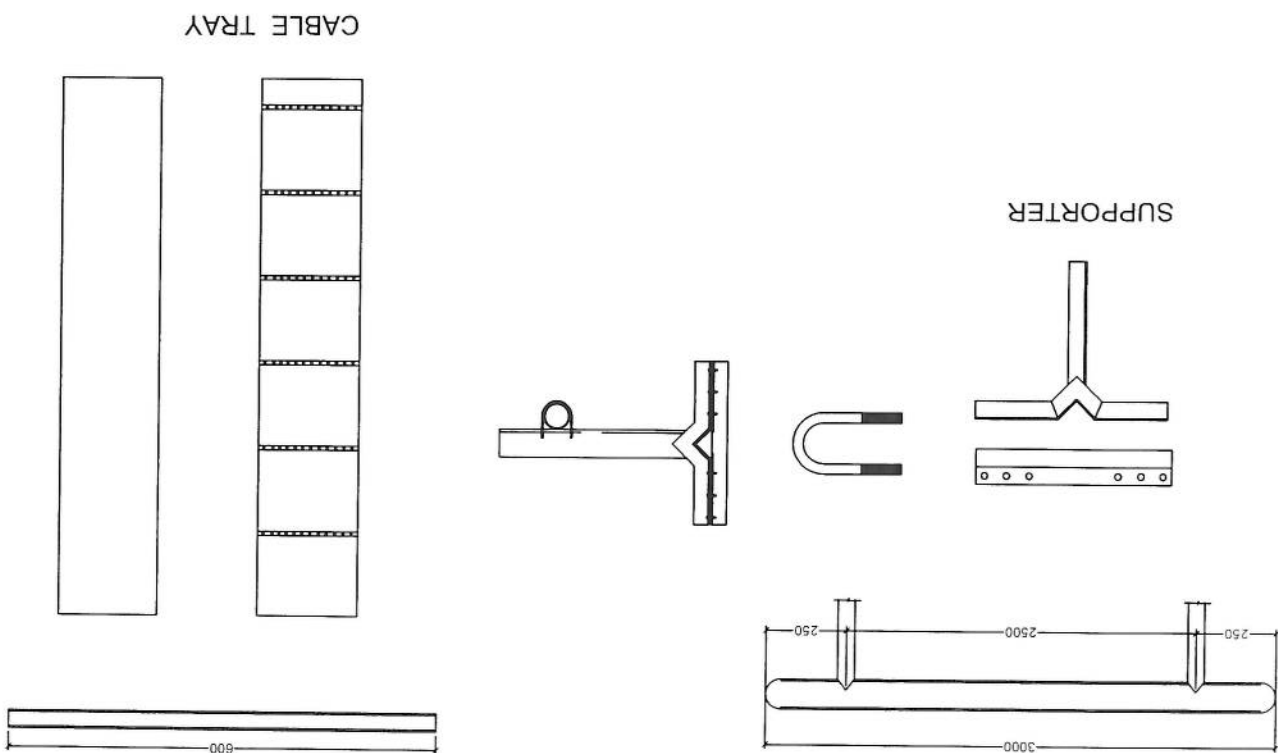
SECTION 17-17



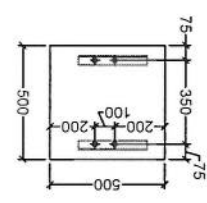
DATE: 01/07/20	REV: 0
 	
SUTAN MYSOON KALAN CO DESIGN AND MANUFACTURE	
APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4	
CLIENT: AFGHAN TELECOM	
PROJECT: ... DRAWING: ... SHEET: ...	

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL7	ML 7	L 100X10	5.5	84.5218	4	338.0872
BL7	701	L60X6	4.781	26.4441891	4	105.7767564
BL7	702	L60X6	4.595	25.4154045	4	101.661618
BL7	703	L60X6	4.41	24.392151	4	97.568604
BL7	704	L60X6	2.962	16.3831182	8	131.0649456
BL7	705	L 40X4	1.403	3.4537651	8	27.6301208
BL7	706	L 40X4	1.072	2.6389424	8	21.1115392
BL7	707	L60X6	2.855	15.7912905	8	126.330324
BL7	708	L 40X4	1.348	3.3183716	8	26.5469728
BL7	709	L 40X4	1.028	2.5306276	8	20.2450208
BL7	710	L60X6	2.779	15.3709269	8	122.9674152
BL7	711	L 40X4	1.315	3.2371355	8	25.897084
BL7	712	L 40X4	0.985	2.4247745	8	19.398196
BL7	L701	L50X5	2	7.6838	3	23.0514
BL7	S 701	L60X6	2.876	15.9074436	4	63.6297744
BL7	S 702	L60X6	3	16.5933	8	132.7464
BL7	P 71	PL300*175*10	1	4.2436	4	16.9744
BL7	P72	PL300*175*10	1	4.2436	4	16.9744
BL7	P 73	PL300*175*10	1	4.2436	4	16.9744
BL7	PJ 7	PL420*90*10	1	3.0591	8	24.4728
BL7	MJ7	L80X7	0.42	3.638166	4	14.552664
BL7	Bolt Set	M16-60	1	0.16274	64	10.41536
BL7	Bolt Set	M12-40	1	0.06798	318	21.61764
BL7	Washer		1	0.008446	382	3.226372
						1508.92 Kg

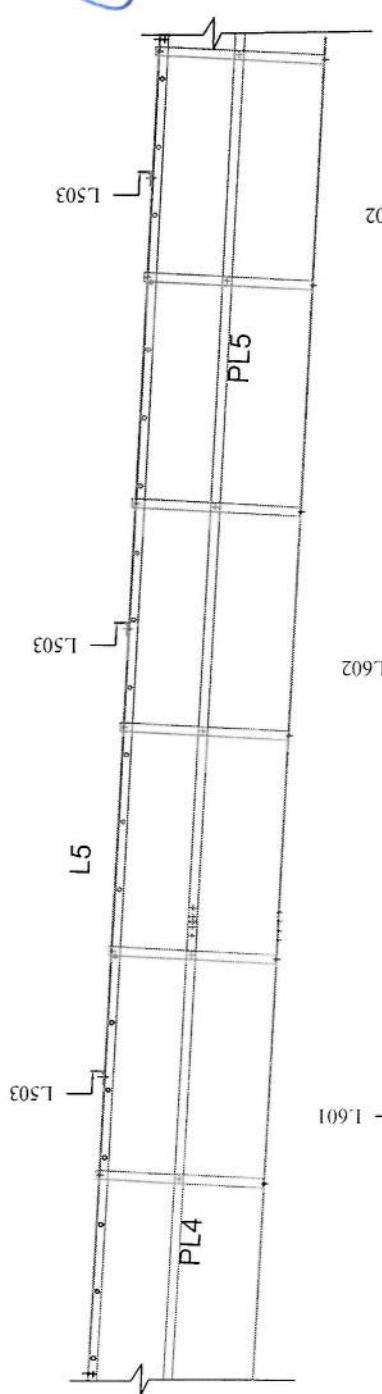
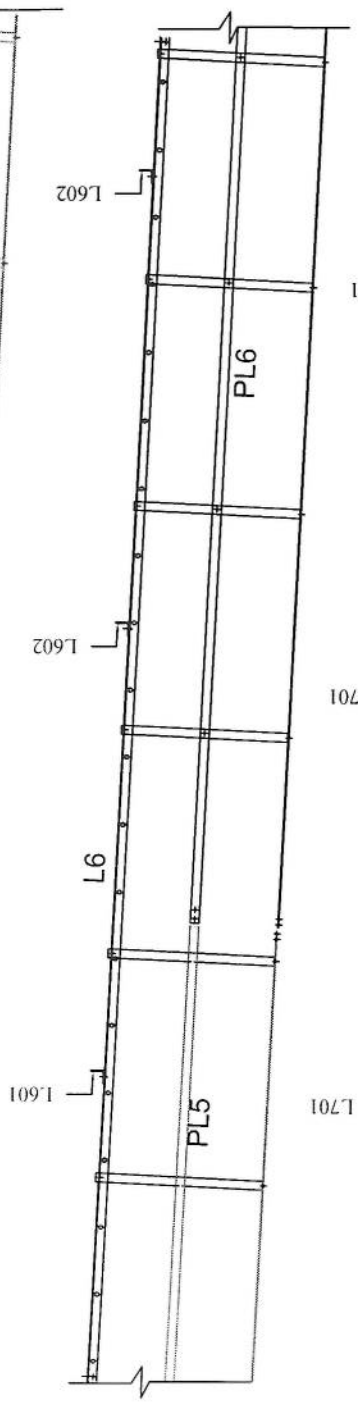
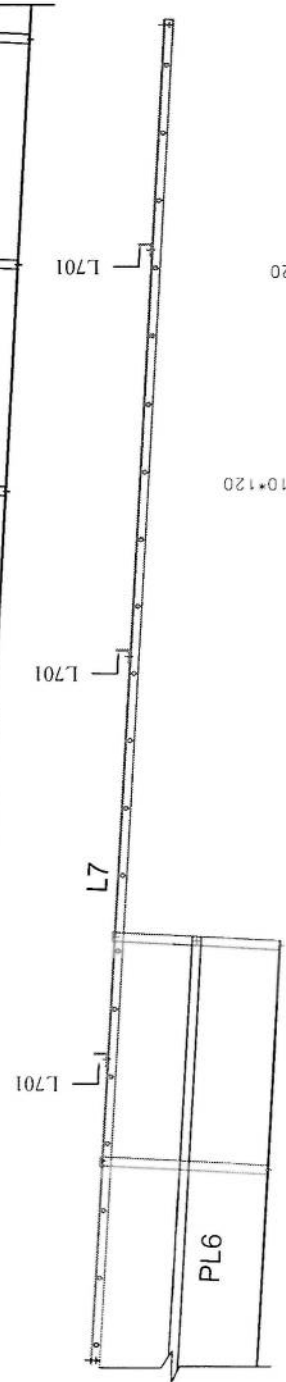
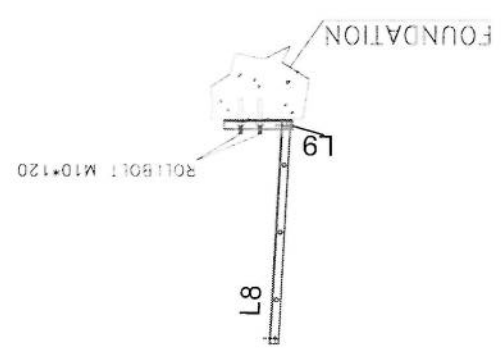


[illegible]

A B C D E F G



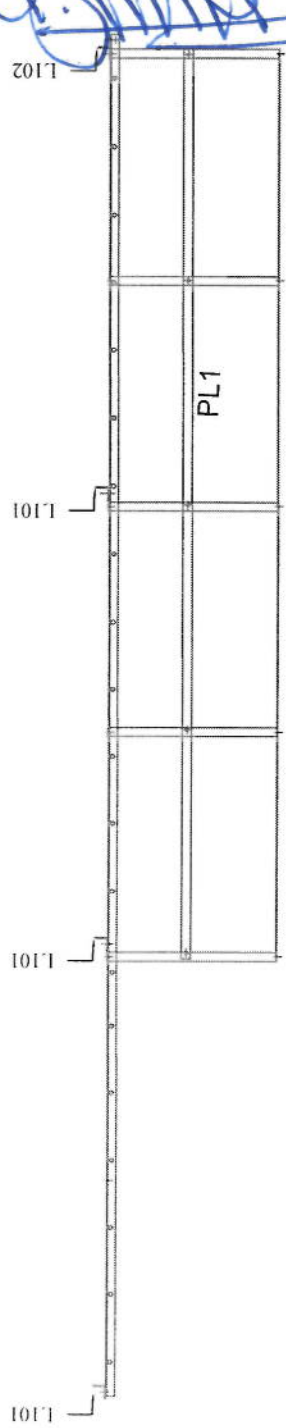
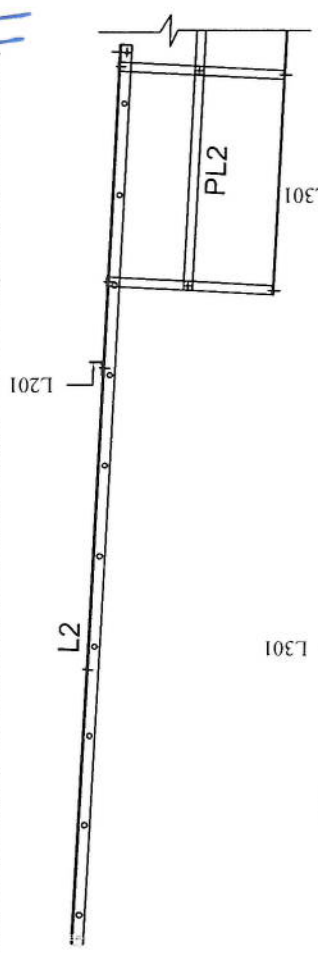
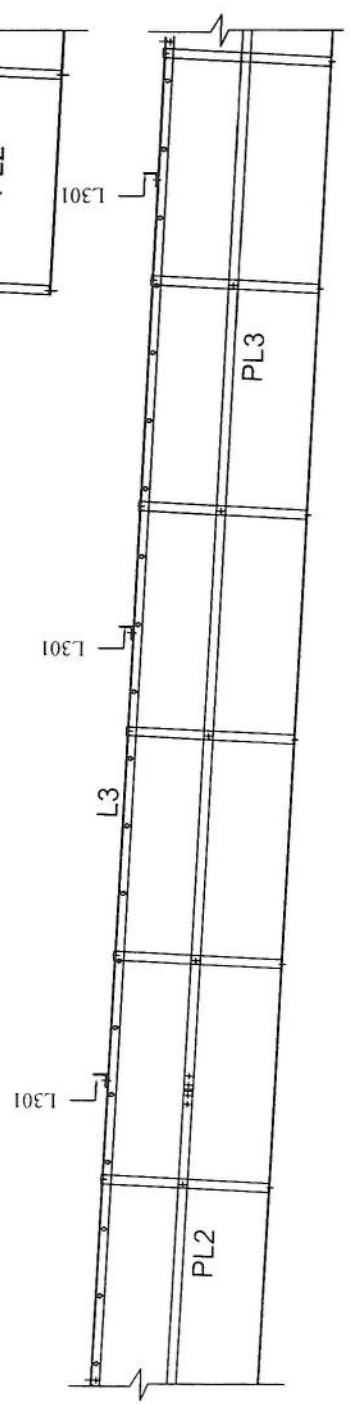
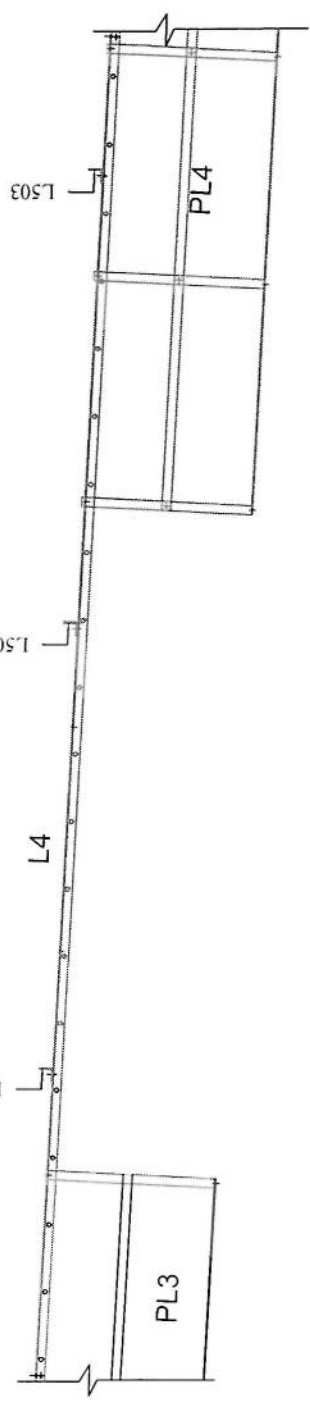
ROLLBOLT M10*120



Handwritten signature

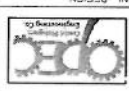
DAKALAZAN DMC NO. 01		DESIGN STAGE: D.T.A. DESIGN	
DAKALAZAN DMC CO.		DAKALAZAN DMC CO.	
DESIGN AND MANUFACTURE		DAKALAZAN DMC CO.	
SULTAN MYSROOM		SULTAN MYSROOM	
FOR TOWER TYPE 40-160-EPA10(AK1-40m)		PANEL 4	
APPROVAL DRAWING		AFGHAN TELECOM	
REV	DESCRIPTION	DATE	BY
1	0	1	0

A B C D E F G

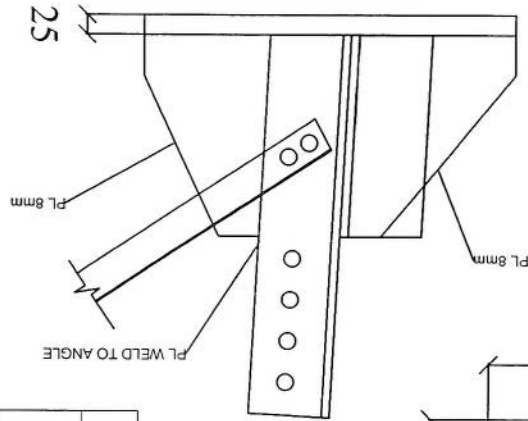


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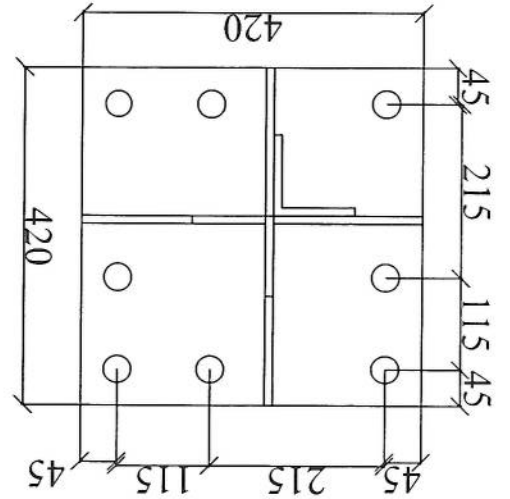
SCALE		DRAWING NO.		DATE	
1:100		SK		01/10/10	
DESIGN AND MANUFACTURING		DARASAZAN KALAN CO.		CONTRACTOR	
APPROVAL DRAWING		FOR TOWER TYPE 40-160-CPA10(AK1-40m)		PANEL 4	
AFGHAN TELECOM		SULTAN MANSOUR		CONTRACTOR	
DATE		DRAWN BY		CHECKED BY	
01/10/10		SK		SK	

SCALE: --		DAKALSAZAN DWG NO: --	
REV: 0		SH. / TOTAL 1 OF 20	
DESIGN STAGE: DETAIL DESIGN		FORMAT: A1	
 DAKALSAZAN KALAN CO. DESIGN AND MANUFACTURER		 SUTRA MYROOM ENGINEERING & CONSTRUCTION SERVICES	
CONTRACTOR		TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4	
CLIENT: AFGHAN TELECOM			
REV	DESCRIPTION	DESIGN	CHECK
2	FIRST ISSUE	A GH	A GH
1	DATE	01/05/08	01/05/08

BASE PLATE

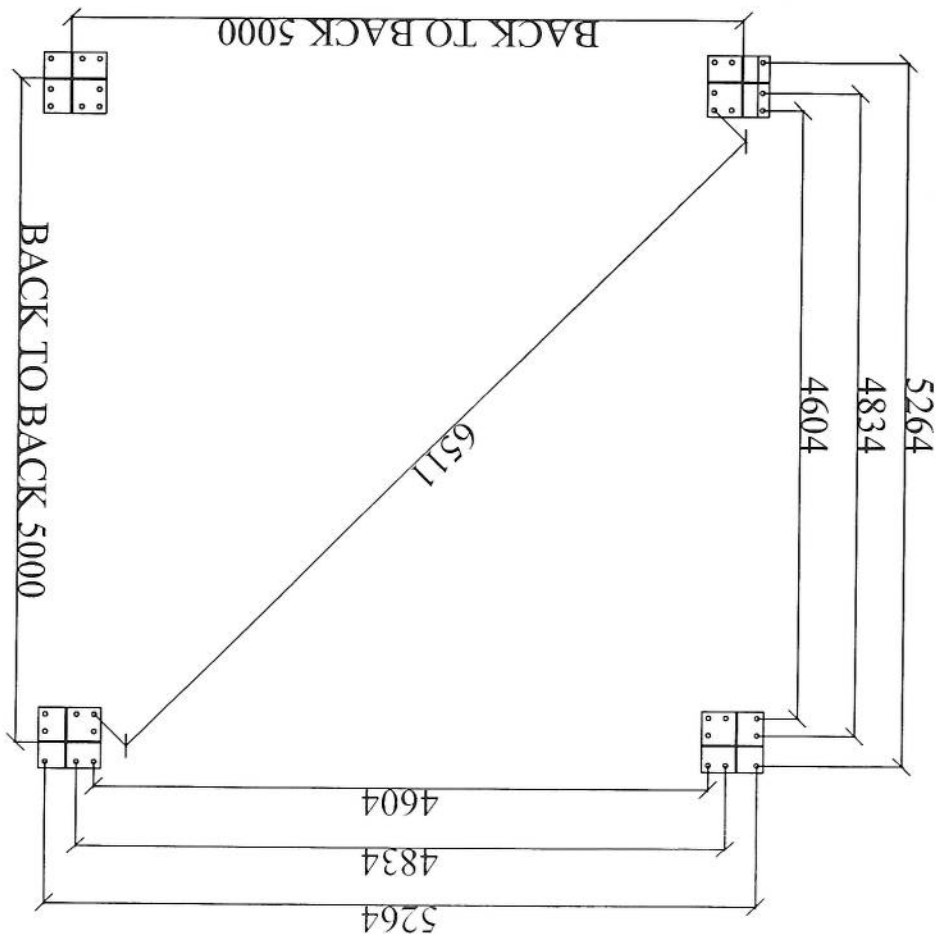


BASE PLATE



Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BASE						
BASE BS		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 TEMPLATE		PL40X40X5	1	6.4684	4	25.8736
BASE NUT30		NUT30	1	0.309	128	39.552
BASE Cable Tray		GI SHEET 1.8 mm	1	58.71	1	58.71
Total weight						524.41KG

SECTION OF BASE PLATE

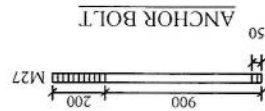
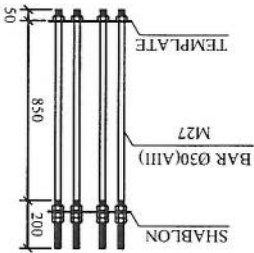
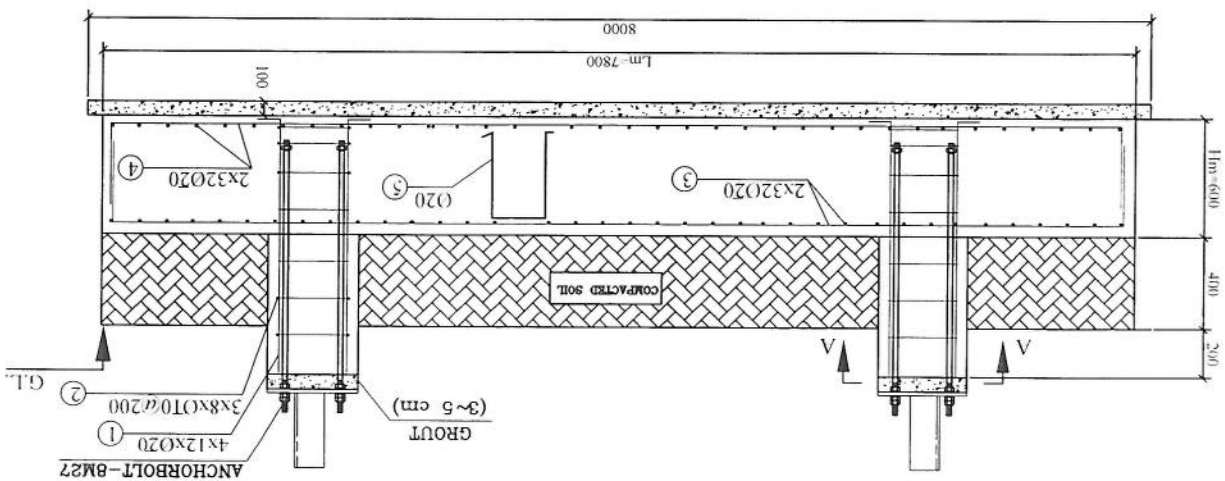
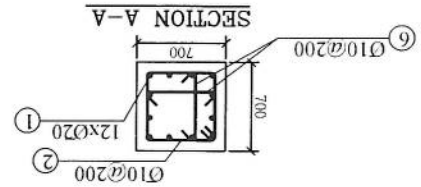
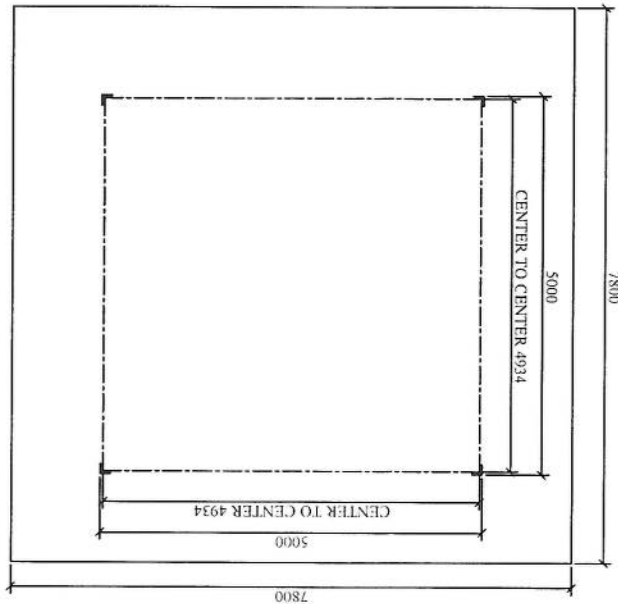


POS.	BENDING DIAGRAM	NO. ROD.	UNIT LENGTH	TOTAL LENGTH	UNIT WEIGHT	TOTAL WEIGHT
1		20	12.4	1.35	64.8	2.47
2		10	6.4	2.40	57.6	0.617
3		20	32.2	8.25	528	2.47
4		20	32.2	8.25	528	2.47
5		20	58	1.80	104.4	2.47
6		10	48	0.75	36	0.617
CON. VOL. = 37.7m³ TOTAL WEIGHT (kg) : 3084						

SOIL CHARAC.: ALLOWABLE BEARING=1.0~2.0 KG/CM2 NORMAL
BAR BENDING SCHEDULE (TYPE AIII - FY=400kg/cm²)
TYPE 7

NOTE:
1- ALL DIMENSION ARE IN MM.
EXCEPTION AS NOTED.
2- Fc=210 Kg/Cm² AFTER 28 DAYS ON CYLINDER SPEC.
3- GRADE OF BARS:
AIII FOR D<12mm
4- COVER ON BARS IS 75 mm
5- THICKNESS OF LEAN CONCRETE 10cm.

FOUNDATION PLAN



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