

31	در صورتیکه کدینگ سروی درجی در جدول باشد	
30	ارتفاع مجموعی تاور و تعمیر از سطح زمین منزل	
29	ارتفاع تاور مورد نیاز	
28	تاور مورد نیاز (کدینگ ماسک کینگ)	
27	مساحت موجود سرپام (طول و عرض)	
26	بوعیت سرپام (رنگ کدینگ یا کدینگ)	
25	ظاهر تعمیر قابلیت برداشت سایت را دارد؟	
24	امکان خنثی سازی وسایل سرپام یا کدینگ است؟	
23	امکان خنثی سازی وسایل سرپام یا افراد و کدینگ است؟	
22	راه رسیدن به پام (رنگ کدینگ یا کدینگ)	
21	ارتفاع تعمیر	
20	تعداد منازل	
19	بوعیت تعمیر (مسکونی/تجاری)	
18	در صورتیکه کدینگ سایت سرپام تعمیرات باشد	
17	چه مقدار سری تردد واسطه ضرورت است (به متر)	250 متر
16	آیا به سری جهت تردد واسطه ضرورت است	بله
15	سری که واسطه نقلیه تردد بتواند دارد	به خیر
14	چگونگی سازه (شهری، روستایی، دورست) VIP یا	روستایی
13	بوعیت سایت (سرپام یا روی زمین)	روی زمین
12	موافقه اینست با مالک خنثی سازی؟	دولتی
11	مالی خنثی سازی با نصب سایت و شرایط انتقال تیلی نام راضی است	دولتی
10	شخصی/کلی	دولتی
9	شماره تماس مالک یا سکته خنثی	
8	مالی خنثی سازی/خانه قابل دسترسی است	دولتی
7	مالکیت زمین (شخصی یا دولتی)	دولتی
6	نام سازه ای که قرار است تحت پوشش سایت باشد	پیر مرزای سازه
5	نام ولسوالی و ولایت مربوطه	سازه
4	نام سازه و منطقه	پیر مرزای سازه
3	GPS coordinates	34.91919 62.15460
2	کدینگ شماره	A شماره
1	Site ID (ای دی ساید)	HRT066

معلومات اینست به اساس سروی از سازه درج معلومات به اساس سروی معلومات اینست به اساس سروی

شماره

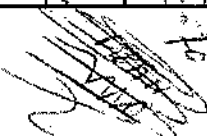
SITE HRT066 CAND 1 TYPE 40m Self-Support Tower	ADDRESS بین مزاری ، ولسوالی رابطہ منطقه ولایت فراه	NAME بین مزاری	GPS COORDINATE Lat 34.91919 Long 62.1546		ELEVATION(SEA LEVEL) 1684		DATE 27/06/2026		DISTANT SITE NAME HRT034 TX RX VLAN ANTENNA SIZE BEARING Distance (km) HEIGHT OF ANTENNA IN TOWER		HRT064 1.8 14 24 20		HORIZONTAL VIEW PLAN 1 20 NE Azimuth 20 NE درجه 20 به شرق باشد		40m Tower To HRT034 To HRT064 40m Tower To HRT034 To HRT064	
---	---	-------------------	--	--	------------------------------	--	--------------------	--	---	--	---------------------------------	--	---	--	--	--

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

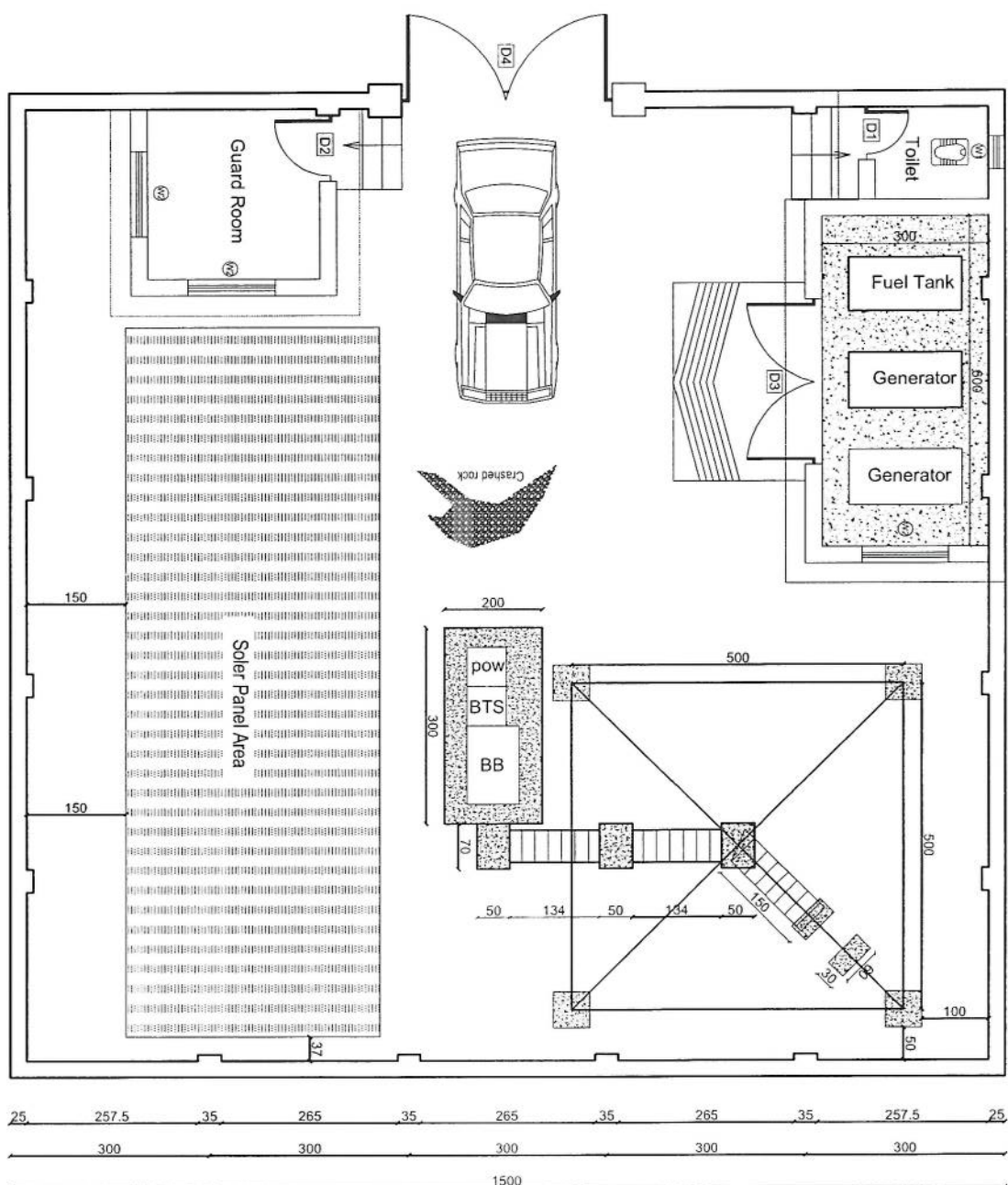
SN	SiteID	LAT	LONG	Province	District	Add	Site Service Type	Near End Site ID	Near End Site Distance	Near End Site Traffic 3G+4G (PS) GB Daily Base	Near End Site Traffic 2G+3G (CS) Erling Daily Base	Tower Type	Tower Height
1	HRT063	34.45159	62.19418	Herat	Robat Sangi	Kotal Surkh	TX Site	HRT369	7.4km	48 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	اسدالله توتی	ولایت خان عطیمی
واری کنندہ معاونت عملیاتی بیسیم	رئیس ترنس میشن بیسیم	معاون ترانس میشن	RF & BSS آمر	مدیر پلاننگ ترانس میشن	مدیر RF Optimization


 S.M.Ahmad
 پوهنیاړ علی احمد سامند
 رئیس عمومی شرکت افغان تیلی کام


 S.M.Ahmad

25	257.5	35	222.5	50	320	50	222.5	35	257.5	25
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LEGEND.




 $\text{CH}_2\text{Cl}-\text{CH}_2\text{Cl}$

6/28

ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA

2/28

ANNALS 7:177 1045-1046

b2

DOOR NO. 1

03

DATE _____

PROJECT TITLE / NO.:

GSM SITES

10

DRAFTING TITLE

SITE PLAN
SECTION 234DRAWN BY
CIVIL TEAM

CHECKED BY

APPROVED BY:

SCALE:

ACTUAL DATA
25.07/2001

ISSUE DATE:

OWNER:
AFGHAN TELECOM

 0.29×10^{-3}

Saltam Telecommunication Company
S.A. 1997

LEGEND	
	NO. 100
	NO. 200
	NO. 300
	NO. 400
	NO. 500
	NO. 600
	NO. 700
	NO. 800
	NO. 900
	NO. 1000

مستقبل های جی اس اس ده

WALL ELEVATIONS & DETAILS

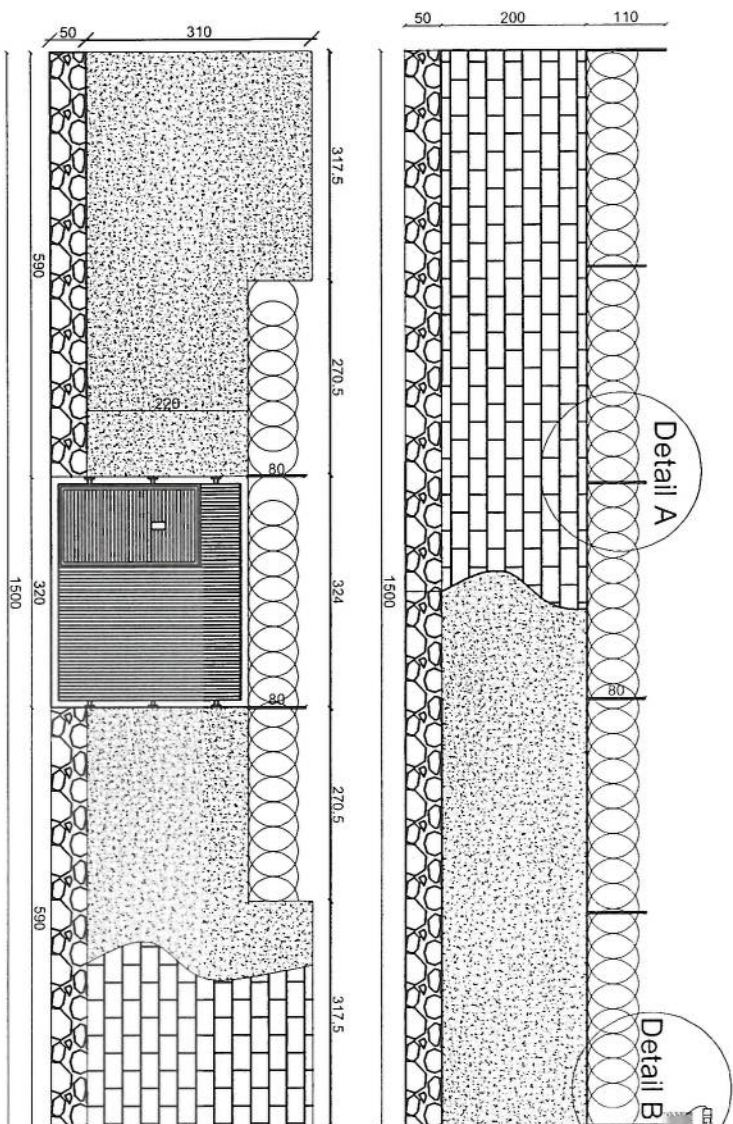
10

5

5

2008

Saltam Telecommunication Company
A F G H A N I S - A U

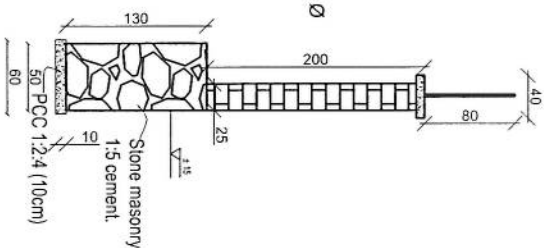
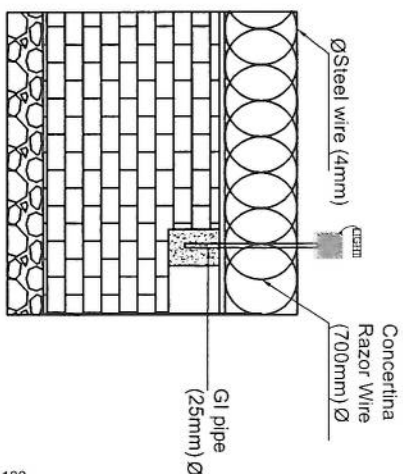
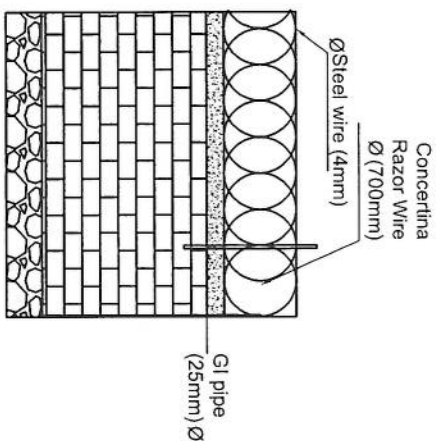


Detail A

Detail B

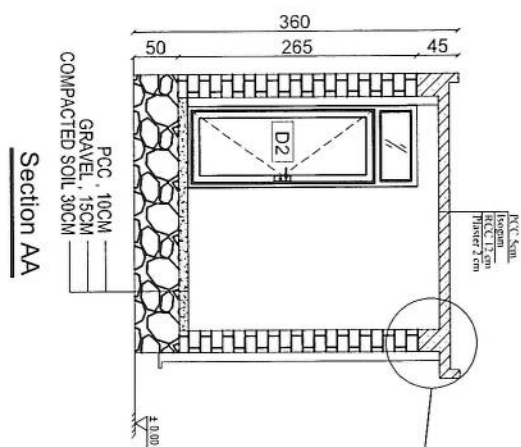
Detail A

Detail B

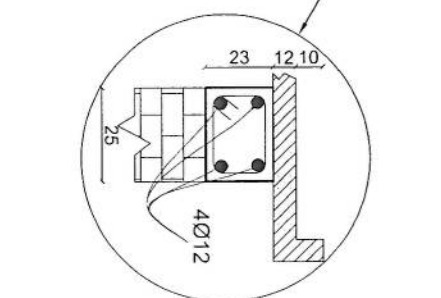


جدول سروی سایتهای غیر تی دی اف (AFTEL)

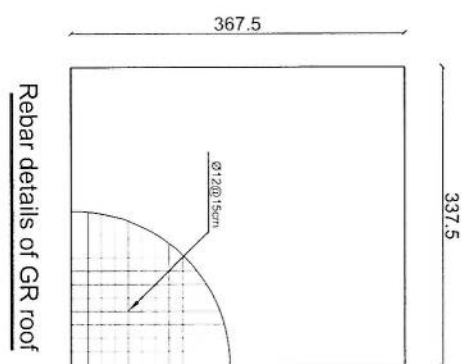
32	نوعیت ساحه (ساحه باز یا ساحه محاط)	
33	مساحت موجود (طول و عرض)	20*15m
34	مساحت مورد نیاز سایت (طول عرض)	20*15m
35	نوعیت احاطه در صورت ضرورت	احاطه خشت پخته
36	محل بودپاش گارد در صورت ضرورت	ضرورت دارد
37	تاور (کیلی روی زمین یا سلف سپورت)	GF
38	ارتفاع تاور مورد نیاز	40
39	امکانات وصل ترانسمیشن سایت (TX type)	دارد (با تیم TX چک گردید)
40	سایه بان و سلب برای وسایل مخایرانی (BTS and all racks)	ضرورت دارد
41	سایه بان و سلب مورد نیاز جیژراتور و تانکر	اتاق ضرورت دارد
42	امکانات نصب سولر است؟	دارد
43	ساحه کافی برای سولر موجود است؟	موجود میباشد
44	برق شهری در ساحه وجود دارد؟	بلی در سایت اتصالات برق شهر در فاصله 320 متری موجود هست
45	فاصله برج برق از ساحه سایت	
46	تیم سروی	RF/TX/CIVIL
47	نام	HABIB/ESMAIL/M.Hanif
48	دیپارتمنت	RF BSS
49	شماره	0749416198/0744418134/0745005310
50	سکچ ساحه سایت (ترتیب و ضم رپور سروی شود)	
51	عکسهای پانارومیک از ساحه گرفته شود	Yes
52	خط دید وصل مایکرویف با تیم از ساحه باید چک و تایید شود	چک گردیده است
53	خدمات سلام در ساحه موجود است؟	30%
54	کیفیت خدمات سلام در ساحه	30%
55	نظریات: انجیر ساختمانی	



Section AA



Section B-B



Rebar details of GR roof

REVISION RECORDS		
REVISION NO	DATE	DESCRIPTION
1	10/10/00	Initial design
2	11/10/00	Revised design
3	12/10/00	Final design

LEGEND:

Figure 1. Schematic representation of the two types of microstructure. (a) Randomly distributed pores. (b) Pores aligned in the direction of the applied stress.

WT	WT
2.5×10^{-4}	2.5×10^{-4}
2.5×10^{-4}	2.5×10^{-4}

[illegible]

111

PROJECT FILE NO.	GSM SITES
07-98-006	

DRAWING TITLE:

GUARD ROOM
2000-10-10

DRAWN BY:
 CIVIL TEAM

CHECKED BY: J. J. J.

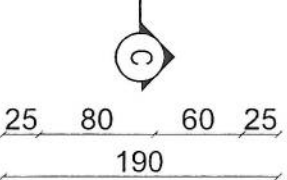
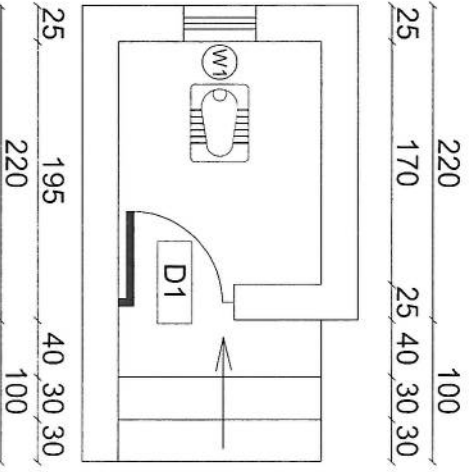
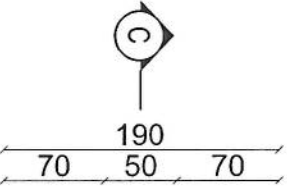
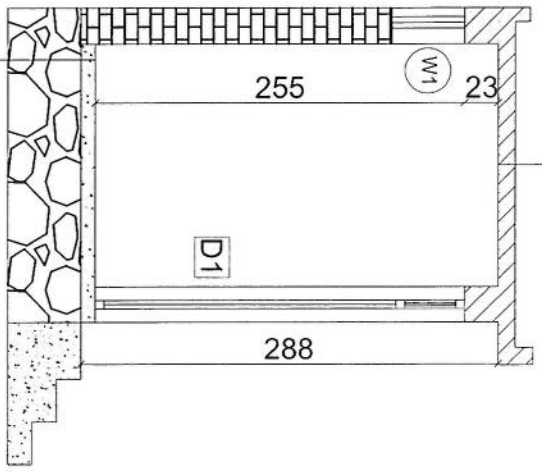
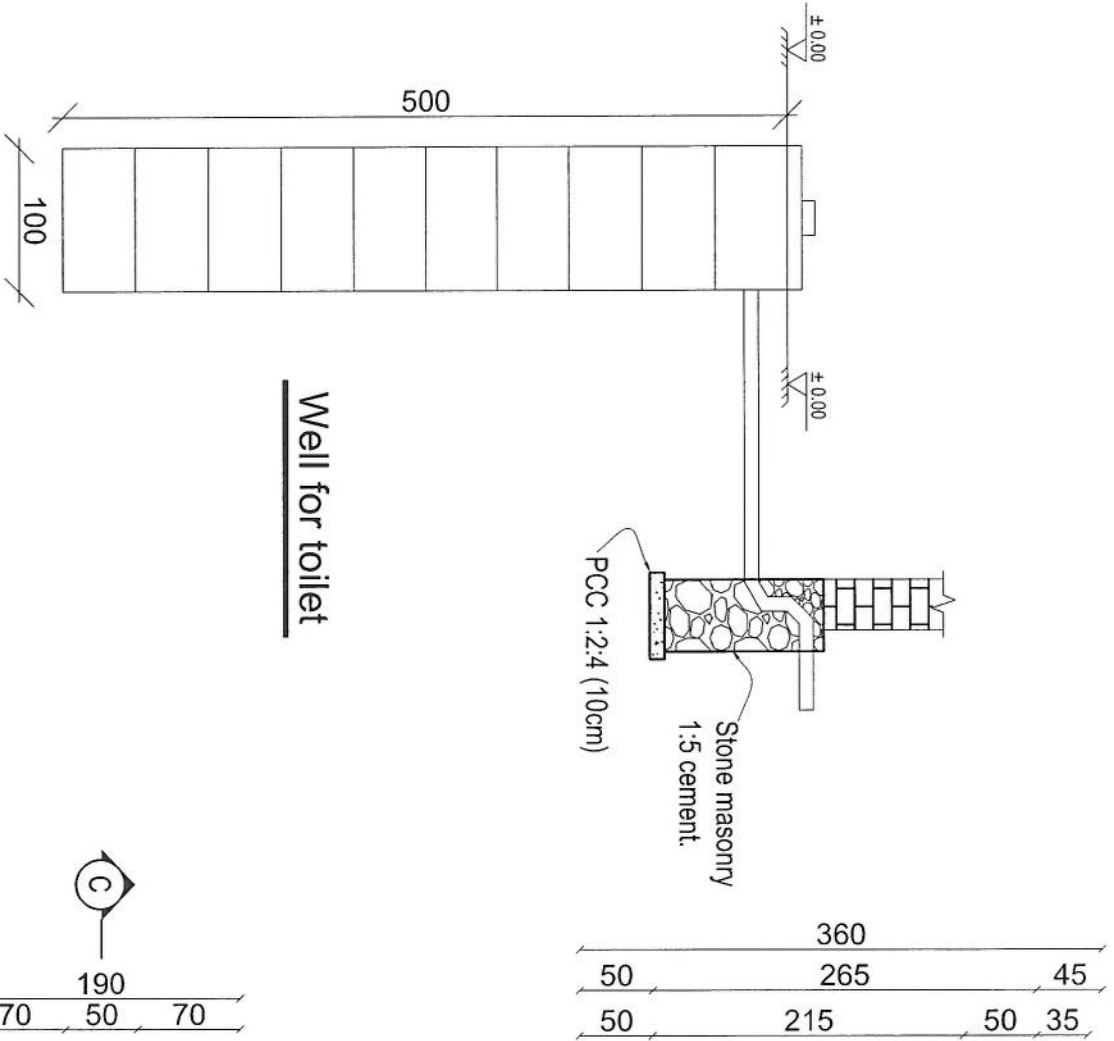
APPROVED BY: _____

SCALE:	1:75
ACTUAL DATE:	25/03/2025
DRG NO:	01

ISSUE DATE:	
OWNER:	

AFGHAN TELECOM

Salem Telicommunications Corp.
A 7 0 0 0 N 1 5 0 0 R



PCC 5cm
Isogam
RCC 12 cm
Plaster 2 cm

REVISION RECORDS			
NO	DATE	DESCRIPTION	
1	2020/03/25	ISSUE DATE	

LEGEND:



W1
D1
± 0.00

PROJECT TITLE / NO:

GSV SITES

موقع های گسی

DRAWING TITLE

TOILET

DRAWN BY:

CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE:

1:50

ACTUAL DATE

25/03/2020

ISSUE DATE

DRG.NO. 05

OWNER:

AFGHAN TELECOM

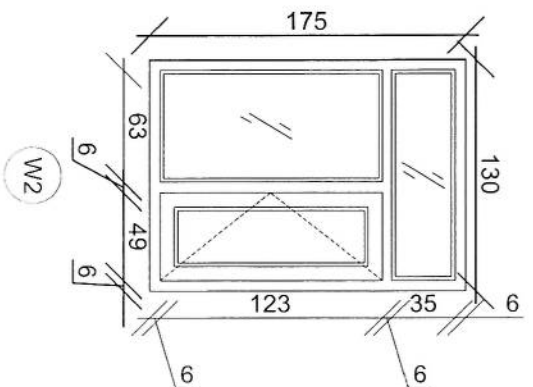
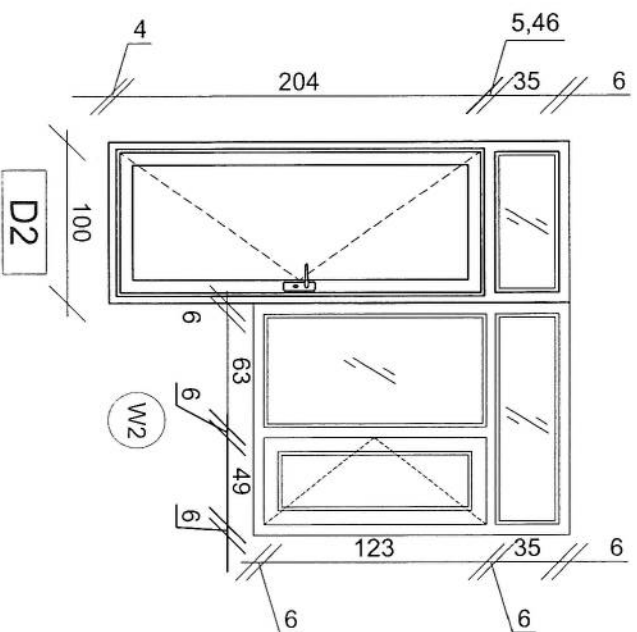
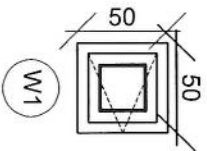
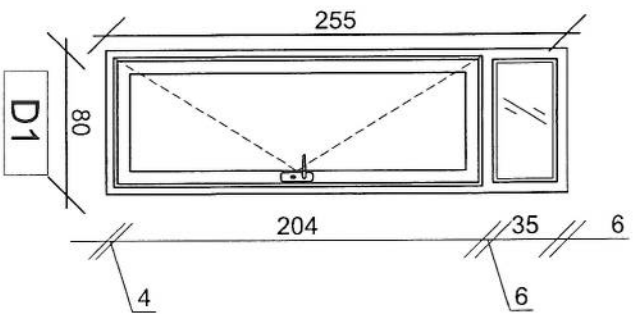
سازمان مخابرات افغانستان

Salam Telecommunication Company/ KARI AFGHANISTAN

TOILET

REF. A105

SCALE: 1:50



06 REF. A106

DOORS & WINDOWS DETAILS

SCALE: 1:25

REVISION RECORDS

REVISION NO	DATE	DESCRIPTION
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LEGEND

20	DOOR
21	WINDOW
22	DOOR
23	WINDOW
24	DOOR
25	WINDOW

PROJECT TITLE / NO.

GSM SITES

محل نصب آنتن های GSM

DRAWING TITLE

DOORS & WINDOWS DETAILS

جزئیات در و پنجره ها

DRAWN BY:

CIVIL TEAM

CHECKED BY:

CIVIL TEAM

APPROVED BY:

CIVIL TEAM

SCALE:

1:25

ACTUAL DATE

25.03.2005

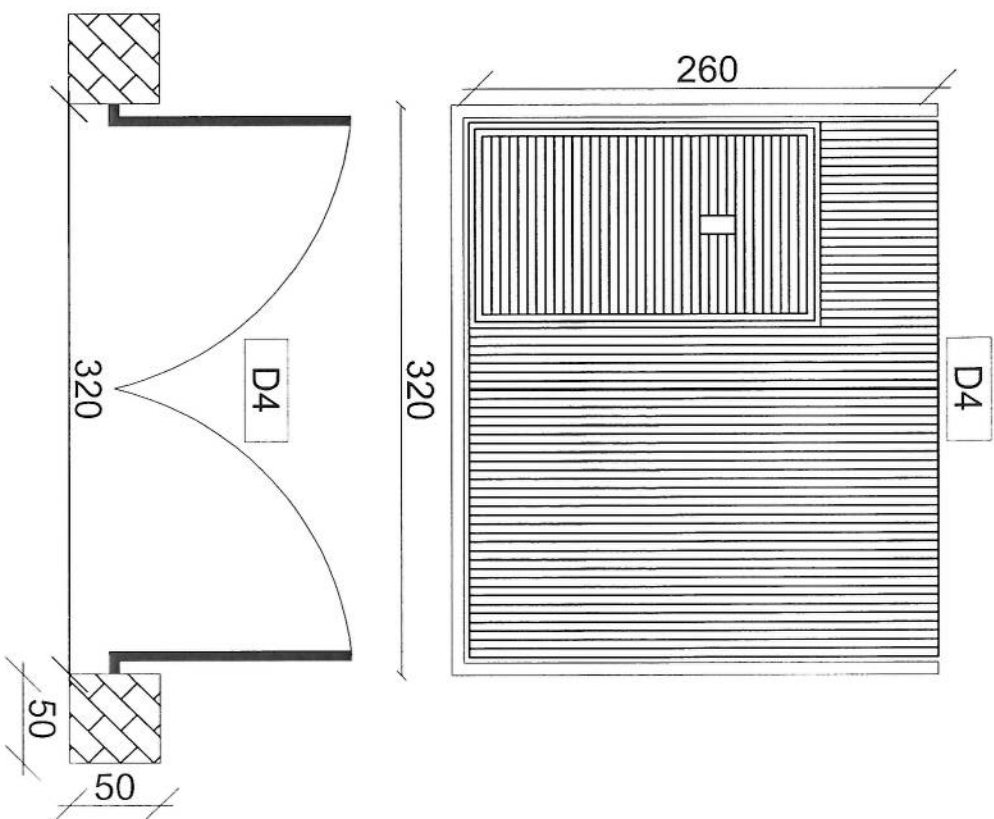
ISSUE DATE

DRG NO. 06

OWNER: Afghani Telecom

Sakari Engineering Company

AFGHANISTAN



REVISION RECORDS		
REVISION NO	DATE	DESCRIPTION
1	10/10/2010	1. Add 100% of the cost of the materials to the project cost.
2	10/10/2010	2. Add 100% of the cost of the labor to the project cost.
3	10/10/2010	3. Add 100% of the cost of the overhead to the project cost.
4	10/10/2010	4. Add 100% of the cost of the profit to the project cost.
5	10/10/2010	5. Add 100% of the cost of the contingency to the project cost.
6	10/10/2010	6. Add 100% of the cost of the risk to the project cost.
7	10/10/2010	7. Add 100% of the cost of the insurance to the project cost.
8	10/10/2010	8. Add 100% of the cost of the taxes to the project cost.
9	10/10/2010	9. Add 100% of the cost of the fees to the project cost.
10	10/10/2010	10. Add 100% of the cost of the other charges to the project cost.

LEGEND:

	Block Road	100 ft
	0.25% VPM	500 ft
	0.75% VPM	500 ft

PROJECT TITLE / NO.:

GSM SITES

DRAWING TITLE:

DOORS DETAILS

DRAWN BY:
CIVIL TEAM

CHECKED BY: 12/9/2003

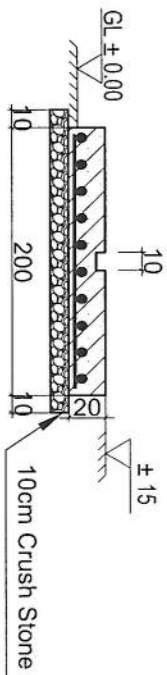
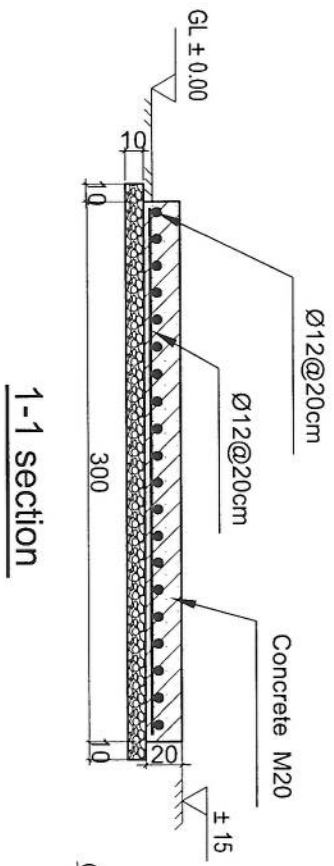
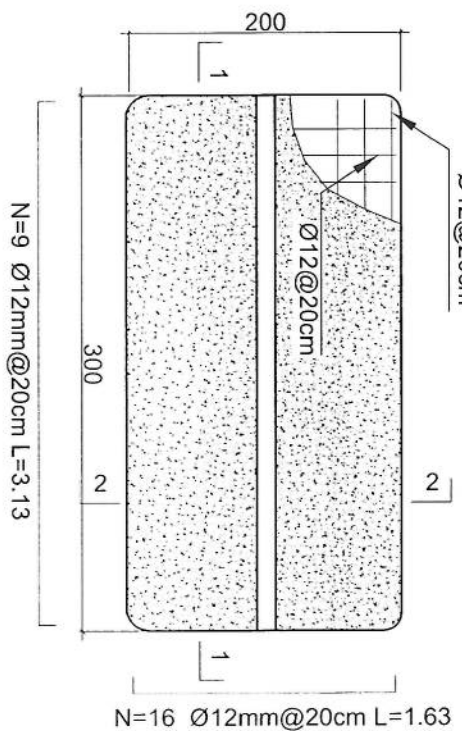
APPROVED BY: J. J. J.

SCALE:

ISSUE DATE:	25 / 03 / 2026
DRG. NO. 0 /	

OWNER:
AFGHAN TELECOM

- Notes:
1. The foundation is adopts reinforced concrete, the concrete is M20; (M20:compressive strength is 20N/mm2); the foundation lays on a 10cm thick crush stone pad;
 2. Ø12: mild steel, rebars strength 210N/mm2
 3. minimum concrete cover for rebar is 3.5cm,
 4. All units are in cm
 5. All edges of the Slab should be curve



Outdoor BTS Foundation

08
REF. A108
ZTE OUTDOOR BTS FOUNDATION
SCALE: 1:25

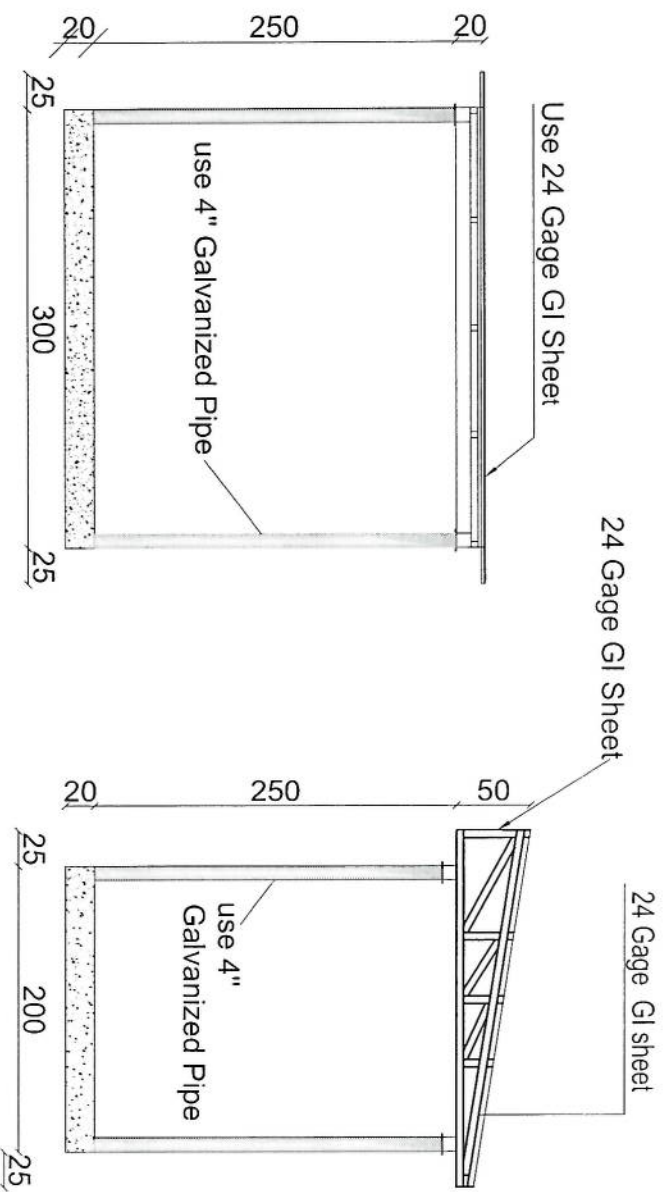
REVISION RECORDS		
NO.	DATE	DESCRIPTION

LEGEND	
	REINFORCED CONCRETE
	10cm CRUSH STONE
	GROUND LEVEL

PROJECT TITLE / NO.	
GSN SITE	
DATE	

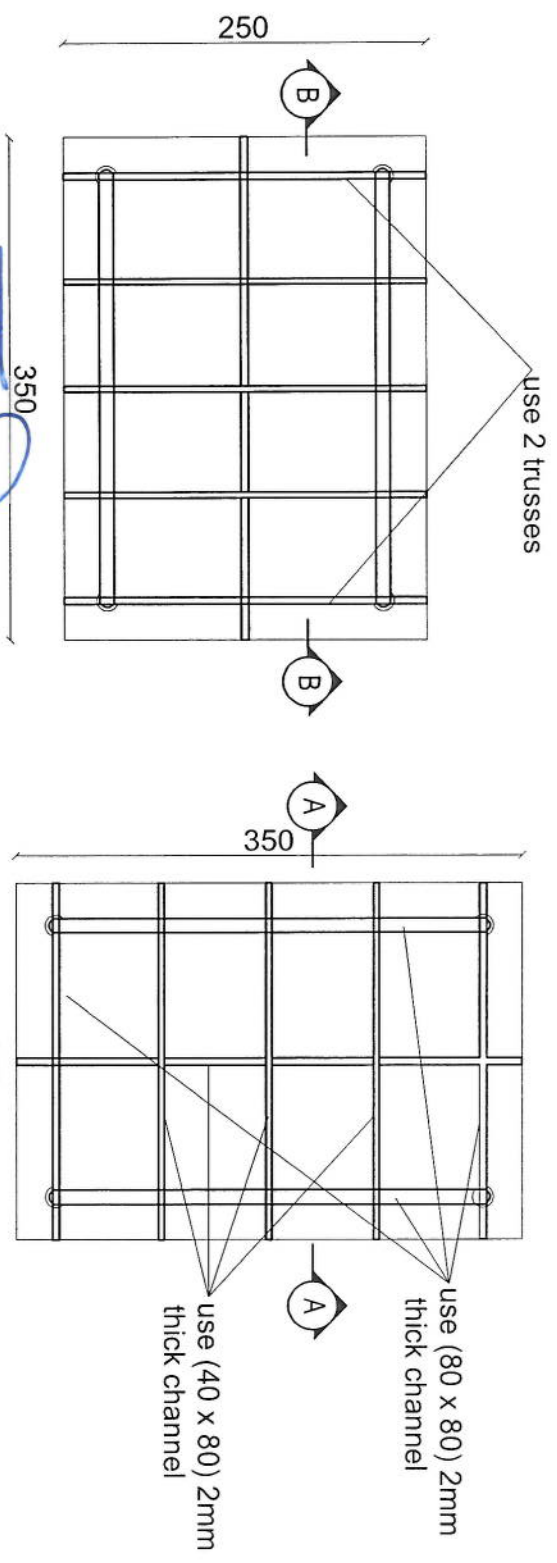
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DRAWN BY:	
CHECKED BY:	

APPROVED BY:	
SCALE:	1:25
ACTUAL DATE:	21.03.2005
ISSUE DATE:	
OWNER:	AFGHAN TELECOM



Section BB

Section AA



REVISION RECORDS			
NO	DATE	DESCRIPTION	
1	25/03/2025	ISSUE DATE	09

LEGEND	
	24 Gage GI Sheet
	use 4" Galvanized Pipe

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:	
25/03/2025	
ISSUE DATE:	
25/03/2025	
OWNER:	
AFGHAN TELECOM	

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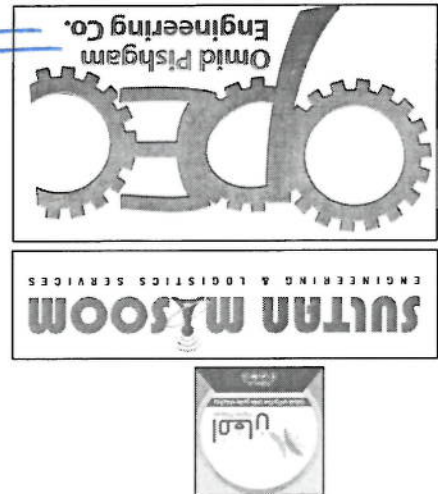
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TOWER TYPE "AK1"

LATTICE Tower:40m

Loading-EPA=10 -Wind speed 160km/h

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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

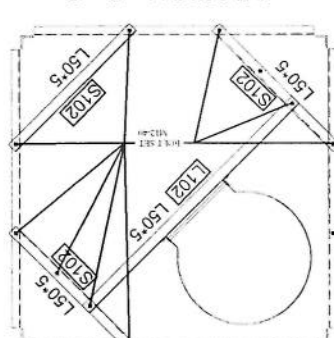
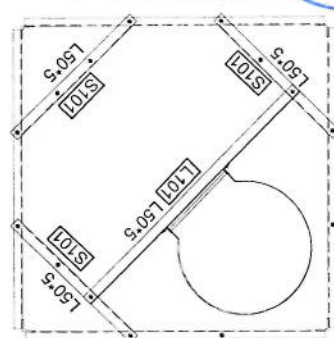
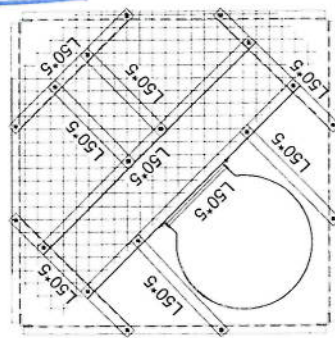
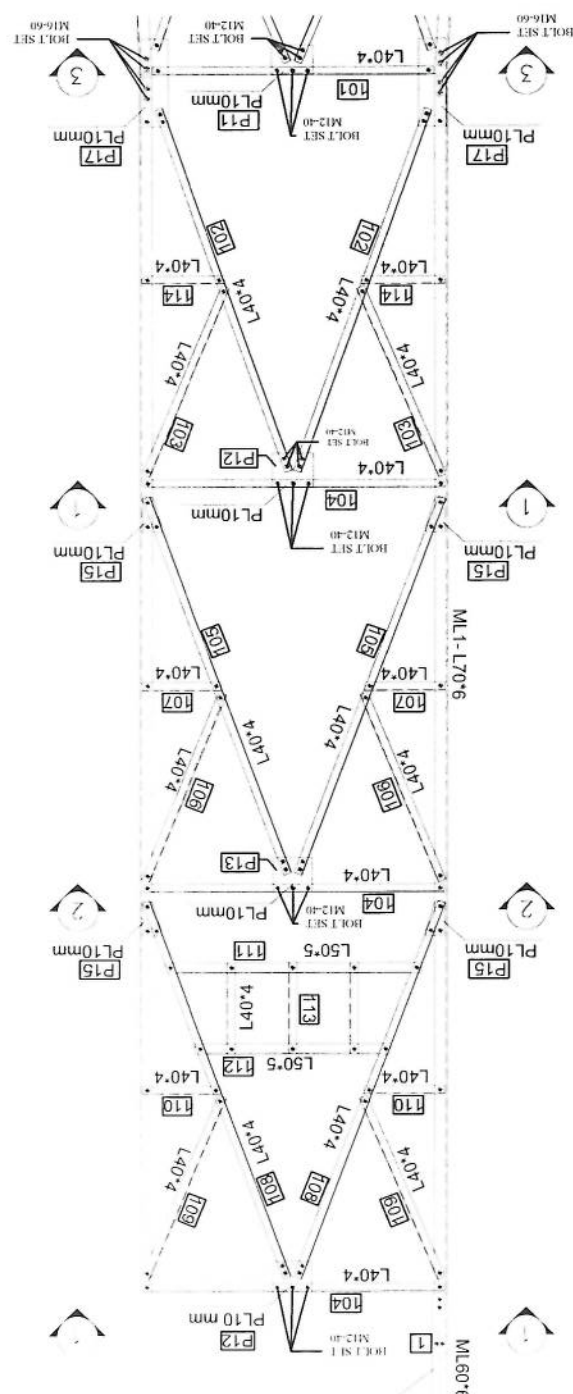
40M TOWER VIEW

BLOCK 7 BLOCK 6 BLOCK 5 BLOCK 4 BLOCK 3 BLOCK 2 BLOCK 1

[Handwritten signature]

SCALE: 1:100		REV: 0		1 OF 20	
DRAUGHTSMAN: DWG NO.		DESIGN STAGE: DETAIL DESIGN		FORMAT: A1	
DESIGN AND MANUFACTURER: DAKALSAZAN		CONTRACTOR: SUITAN MYSOOM		TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4	
CLIENT: AFGHAN TELECOM		APPROVAL: <i>[Signature]</i>		DATE: 10/10/20	
REV	DESCRIPTION	DESIGN	CHECK	APPROV	DATE
1	FIRST ISSUE	A GH	MU TUS	D EPR	A GH
2					
3					
4					
5					

BLOCK 1



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

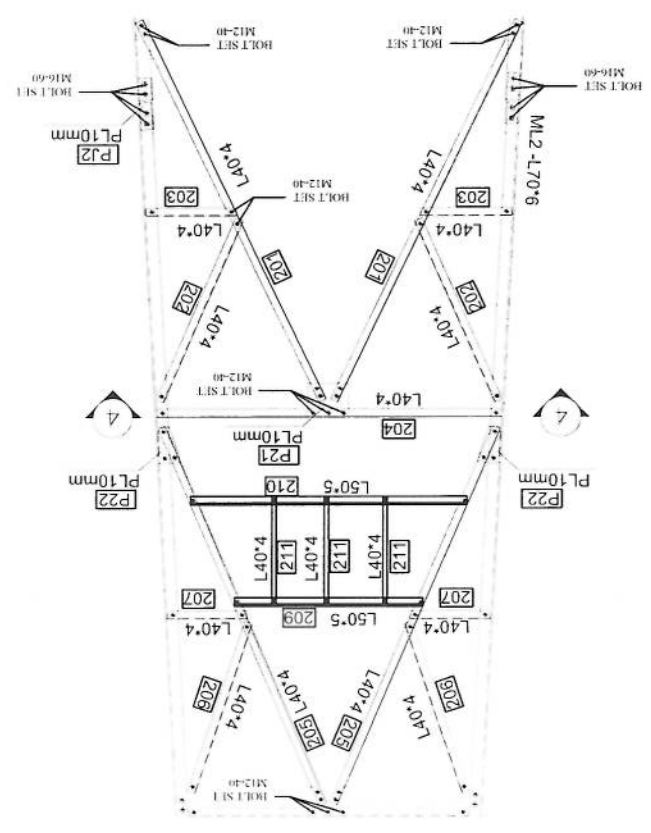
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PROFILES GRADE LEGEND

- 1-L = ST37
2-ML = ST50
3-HT = ST52

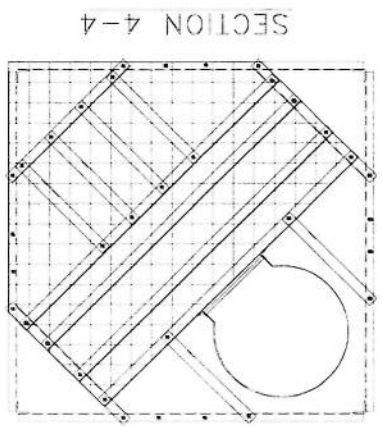
A B C D E F G

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

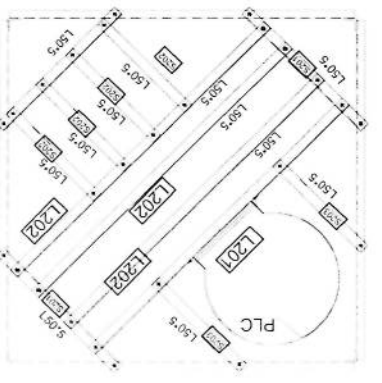


BLOCK 2

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL.2	M.2	L70X6	4.005	26.0296965	4	104.118786
BL.2	201	L 40X4	2.303	5.662951	8	45.3543608
BL.2	202	L 40X4	1.083	2.660211	8	21.3281688
BL.2	203	L 40X4	0.425	1.0462225	8	8.36978
BL.2	204	L 40X4	1.69	4.160273	4	16.641092
BL.2	205	L 40X4	2.32	5.711144	8	45.689152
BL.2	206	L 40X4	1.115	2.7447955	8	21.958364
BL.2	207	L 40X4	0.37	0.910829	8	7.286632
BL.2	209	L50X5	0.96	3.688234	4	14.752896
BL.2	210	L50X5	1.38	5.301822	4	21.207288
BL.2	211	L 40X4	0.585	1.440945	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	2.224601	2	4.449202
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	M16-60	Washer	1	0.2575	10	2.575
BL.2	M16-60	Bolt Set	1	0.16274	32	5.20768
BL.2	M12-40	Bolt Set	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	1.5533	8	12.4424
BL.2	M12	L 60X6	0.32	1.769952	4	7.079808
BL.2	MESH	HEAVY MESH	2.5	28.325	1	28.325
BL.2	WASHER		1	0.008446	336	2.837856
					TOTAL WEIGHT	473.02 Kg



SECTION 4-4



SECTION 4-7

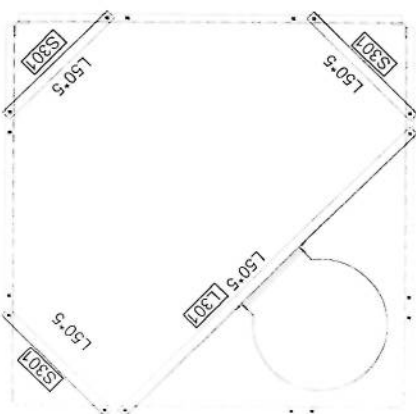
DAKSAZAN DMS NO. 4705A
SCALE: 1:100
DESIGN: M. A. DAKSAZAN
CHECK: M. A. DAKSAZAN
DATE: 10/10/2019

DAKSAZAN
KALAN CO.
DESIGN AND MANUFACTURE

FOR TOWER TYPE 40-160-EPA10(AK1-40m)
PANEL 4
APPROVAL DRAW NO.
AFGHAN TELECOM

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

NOTE



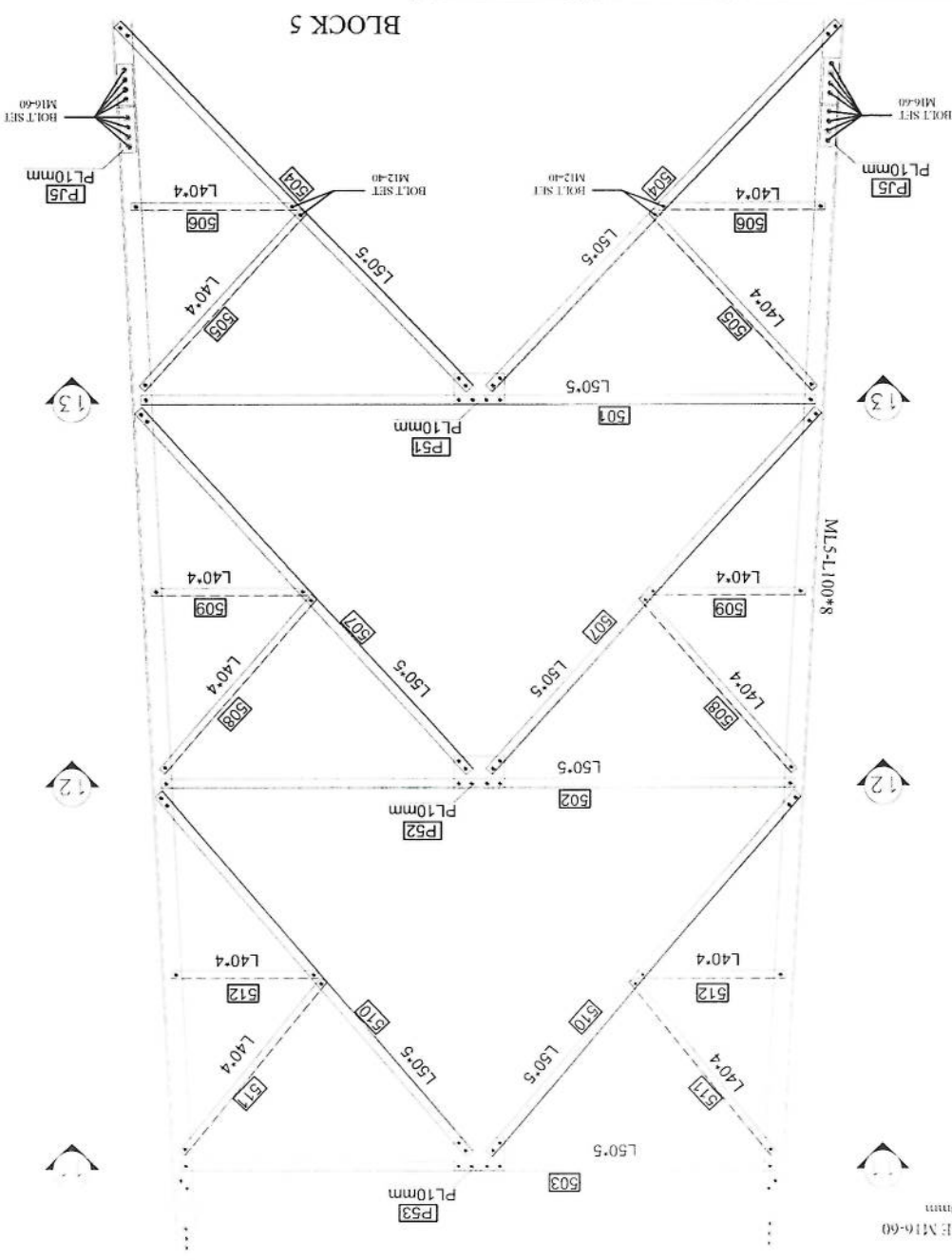
SECTION 5-5

A B C D E F G

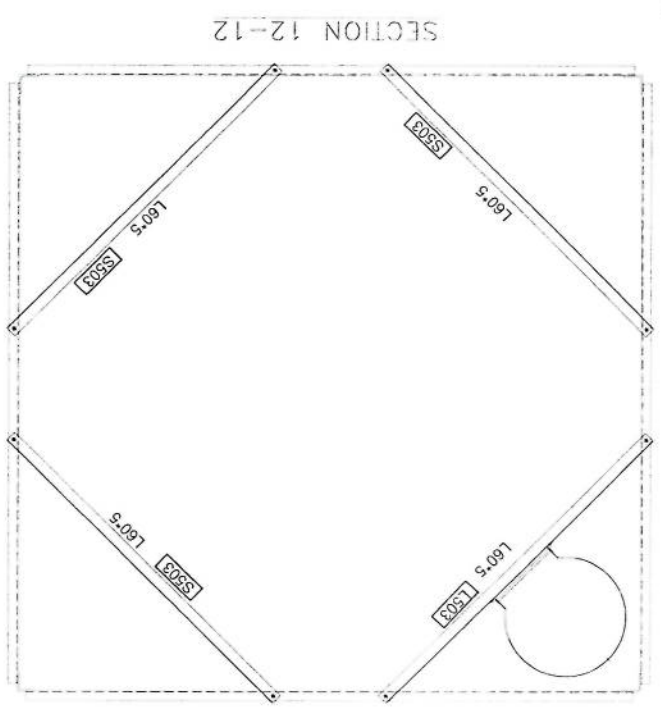
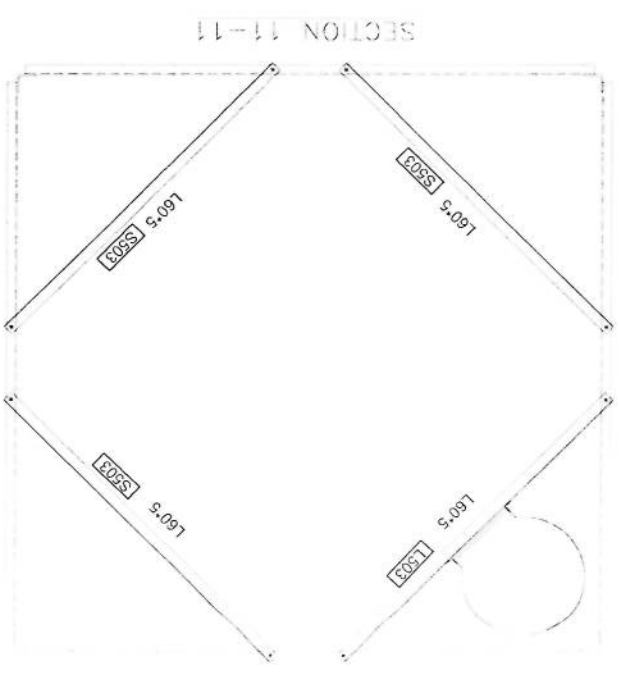
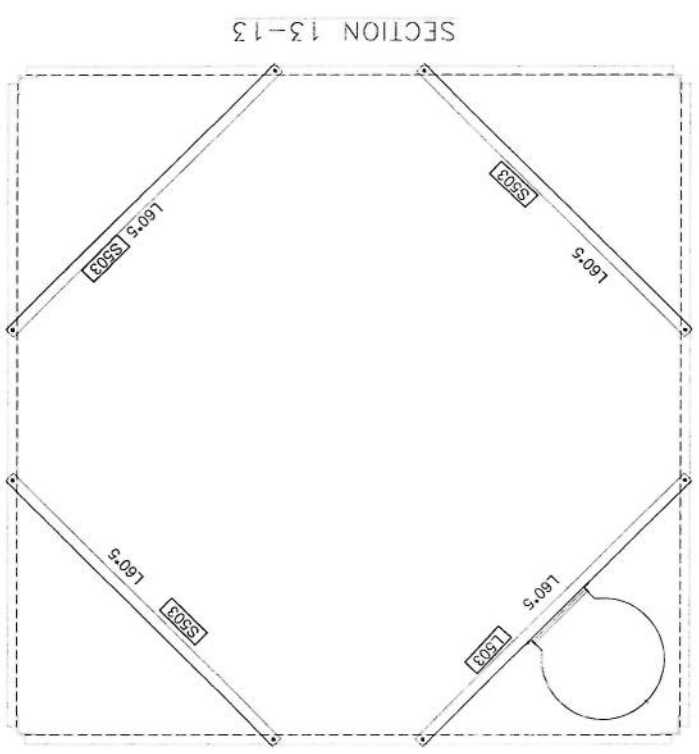
Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BLS	MLS	L 100X8	6.005	74.592909	4	298.371636
BLS	S01	L50X5	3.588	13.7847372	4	55.1389488
BLS	S02	L50X5	3.382	12.9933058	4	51.9732232
BLS	S03	L50X5	3.177	12.2057163	4	48.8228652
BLS	S04	L50X5	2.648	10.1733512	8	81.3868096
BLS	S05	L 40X4	1.24	3.052508	8	24.420064
BLS	S06	L 40X4	0.818	2.0136706	8	16.1093648
BLS	S07	L50X5	2.577	9.905763	8	79.2046104
BLS	S08	L 40X4	1.208	2.9737336	8	23.7898688
BLS	S09	L 40X4	0.771	1.8979707	8	15.1837656
BLS	S10	L50X5	2.514	9.6585366	8	77.2682928
BLS	S11	L 40X4	1.177	2.8974209	8	23.1793672
BLS	S12	L 40X4	0.724	1.7822708	8	14.2581664
BLS	L503	L 60X5	1.98	9.197694	3	27.593082
BLS	S 503	L 60X5	1.98	9.197694	9	82.779246
BLS	P51	PL260*180*10	1	3.7801	4	15.1204
BLS	P52	PL260*180*10	1	3.7801	4	15.1204
BLS	P 53	PL260*180*10	1	3.7801	4	15.1204
BLS	Bolt Set	M16-60	1	0.16274	64	10.41536
BLS	Bolt Set	M12-40	1	0.06798	288	19.57824
BLS	MUS	L80X7	0.42	3.638166	4	14.552664
BLS	P15	PL420*90*10	1	3.0591	8	24.4728
BLS	Washer		1	0.008446	350	2.9561
						1036.82 Kg

SCALE: 1:50
 DATE: 15/07/2016
 DRAWN BY: D. KALAN
 CHECKED BY: D. KALAN
 APPROVED BY: D. KALAN
 PROJECT: FOR TOWER TYPE 40-160-CPA10(AK1-40m)
 PANEL 4
 APPROVAL DRAWING
 AFGHAN TELECOM
 DESIGN AND MANUFACTURE
 DAKATSAZAN
 KALAN CO.
 DAKATSAZAN DMS NO.

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01 OF 20

DATE: 10/10/20

DESIGN AND MANUFACTURE

DAKALSAZAN KALAN CO.

AFGHAN TELECOM

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

PANEL 4

APPROVAL DRAWING

DESIGN: [Signature]

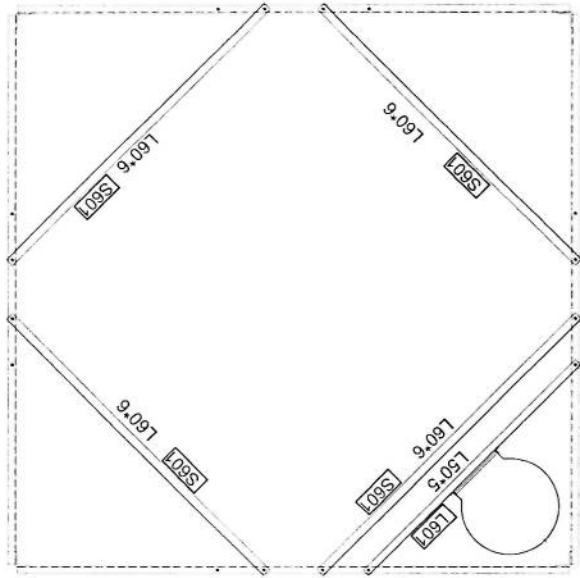
CHECK: [Signature]

DATE: 10/10/20

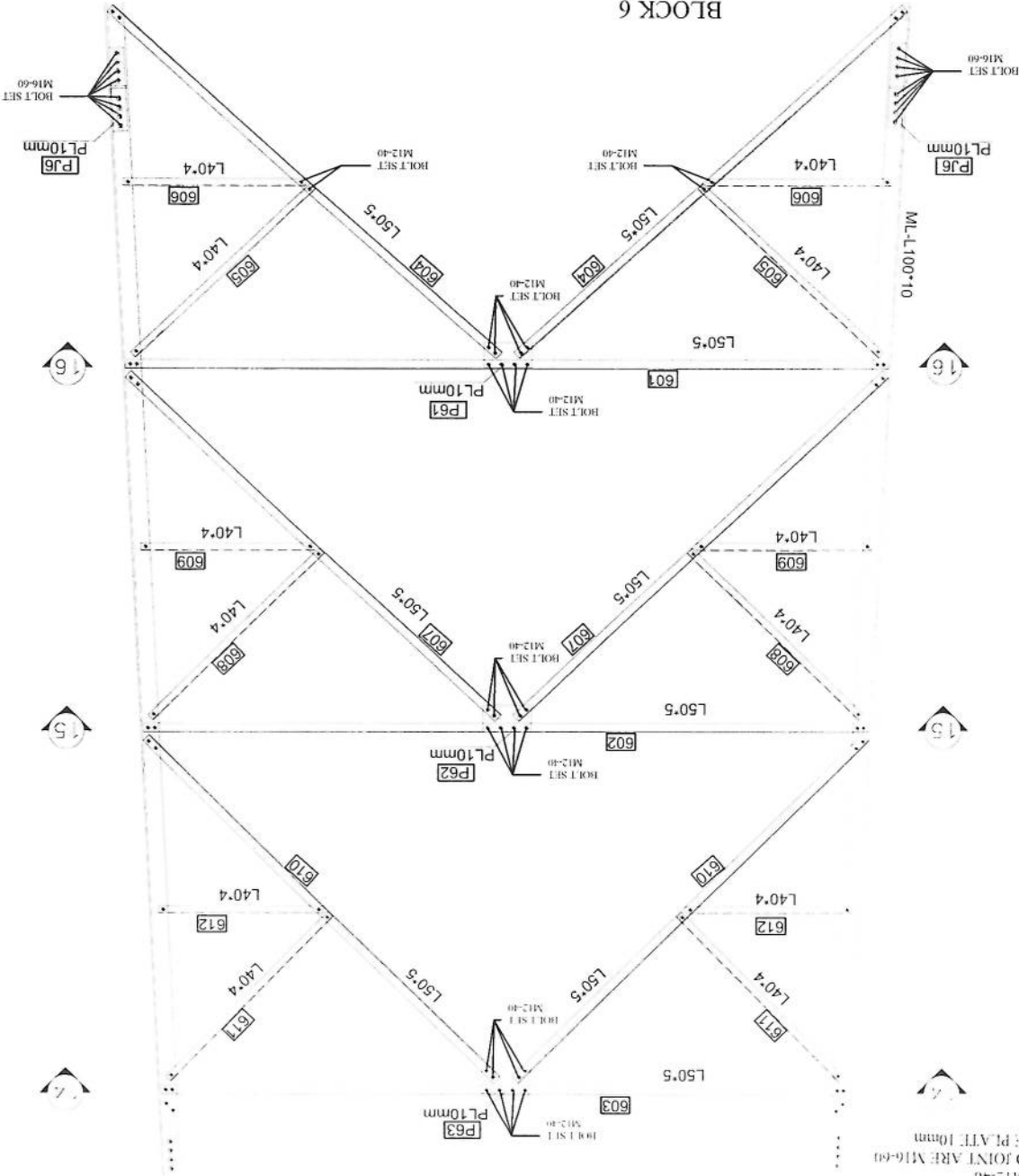
[Handwritten signature]

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SECTION 14-14



BLOCK 6



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

DATE: 10/10/14		SCALE: 1/20	
DRAWN BY: SK		CHECKED BY: SK	
DESIGN AND MANUFACTURE		CONSTRUCTION	
DAKASAZAN KALAN CO.		DAKASAZAN KALAN CO.	
FOR TOWER TYPE 40-160-CPA10(AK1-40m)		PANEL 4	
APPROVAL DRAWING		APPROVAL	
AFGHAN TELECOM		AFGHAN TELECOM	
NO.	REVISION	DATE	BY
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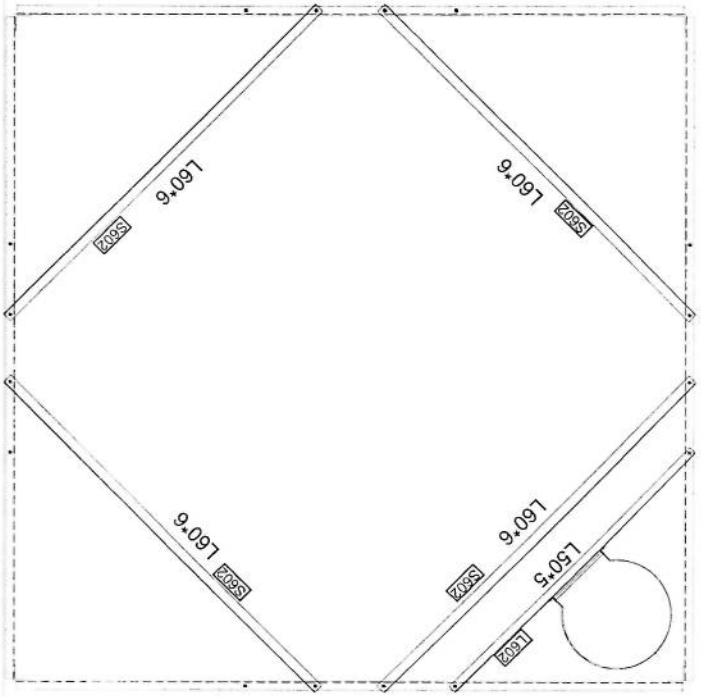
NOTE:
1. ALL BOLT SETS IN BRACING ARE M12-40
2. ALL BOLT SETS IN MAIN LEGS AND JOINT ARE M16-60
3. ALL PLATE AND JOINT PLATE ARE PL-V11 10mm

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL 6	ML 6	L100X10	6.005	92.282438	4	369.129752
BL6	601	L50X5	4.205	16.1551895	4	64.620758
BL6	602	L50X5	3.999	15.3637581	4	61.4550324
BL6	603	L50X5	3.793	14.5723267	4	58.2893068
BL6	604	L50X5	2.856	10.9724664	8	87.7797312
BL6	605	L40X4	1.342	3.3036014	8	26.4288112
BL6	606	L40X4	0.954	2.3484618	8	18.7876944
BL6	607	L50X5	2.781	10.6843239	8	85.4745912
BL6	608	L40X4	1.306	3.2149802	8	25.7198416
BL6	609	L40X4	0.906	2.2303002	8	17.8424016
BL6	610	L50X5	2.708	10.4038652	8	83.2309216
BL6	611	L40X4	1.271	3.1288207	8	25.0305656
BL6	612	L40X4	0.858	2.1121386	8	16.8971088
BL6	L 601	L50X5	2	7.6838	1	7.6838
BL6	L 602	L50X5	1.999	7.6799581	2	15.3599162
BL6	S 601	L60X6	2.434	13.4626974	4	53.8507896
BL6	S 602	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	MU6	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

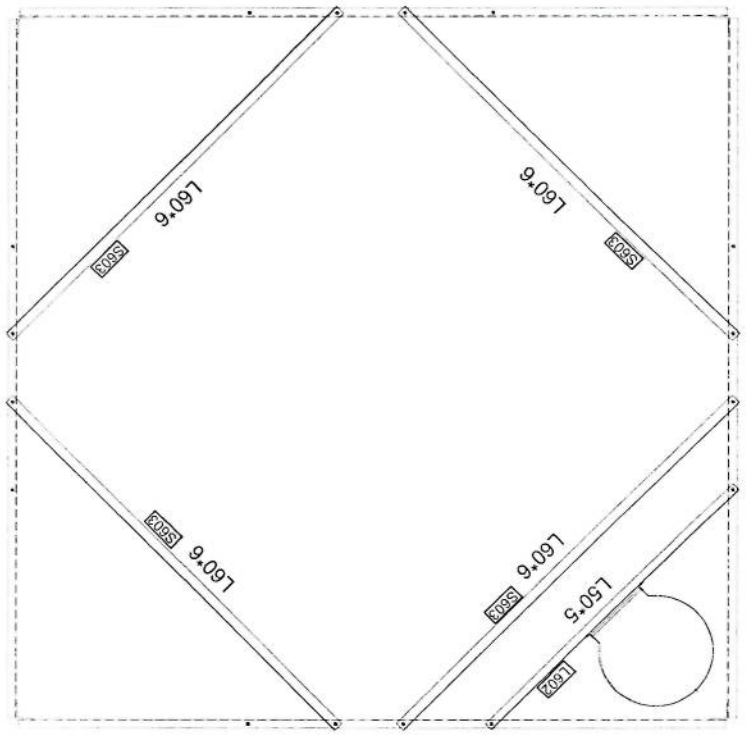
APPROVAL DRAWING
FOR TOWER TYPE 40-160-EP10(AK-40m)
PANEL 4
AFGHAN TELECOM
DATE: 15/07/2015
DRAWN BY: [Signature]
CHECKED BY: [Signature]
DESIGNED BY: [Signature]
APPROVED BY: [Signature]
PROJECT NO: [Blank]
SHEET NO: 1 OF 20



SECTION 15-15



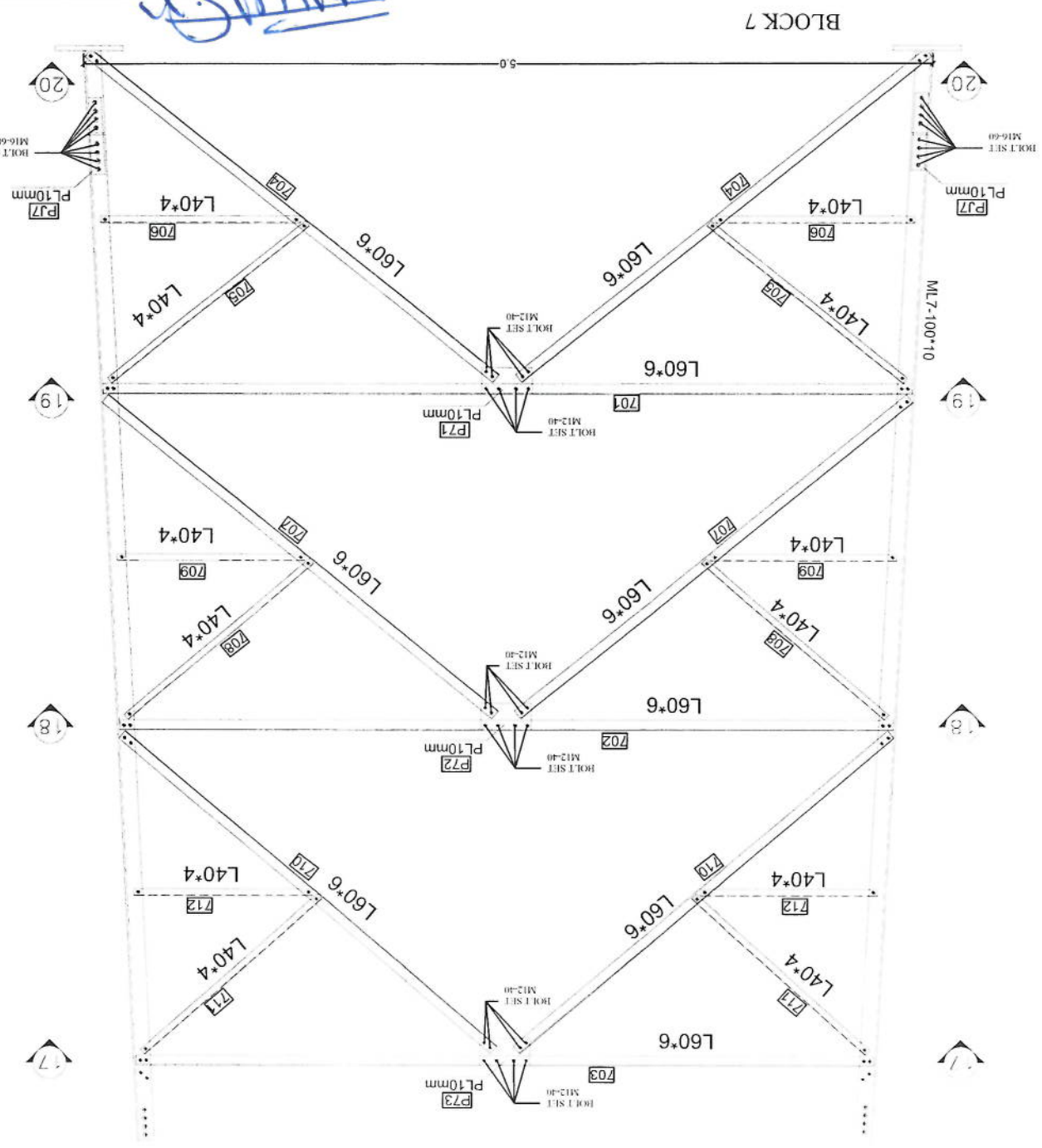
SECTION 16-16



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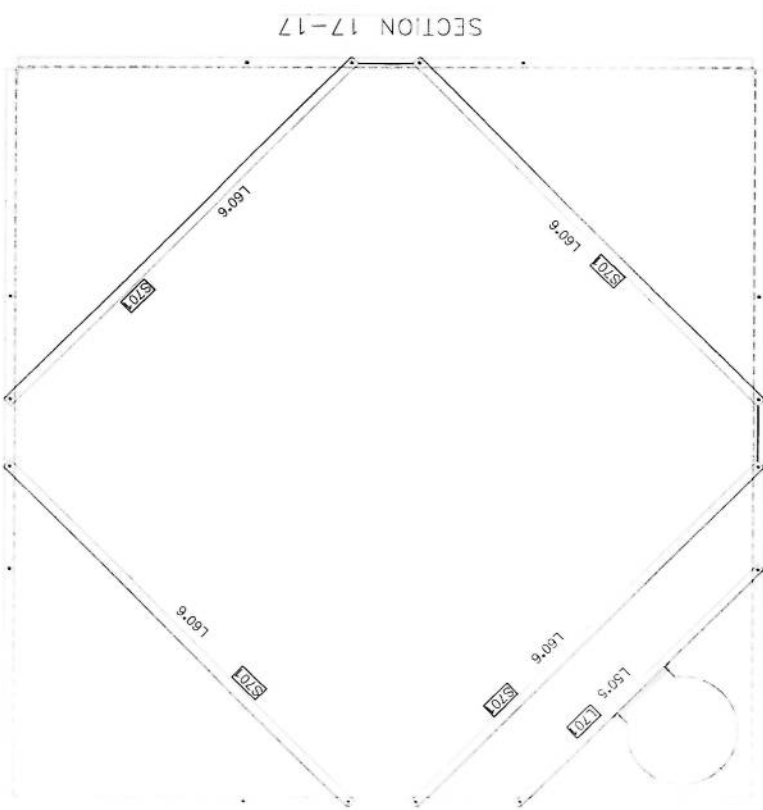
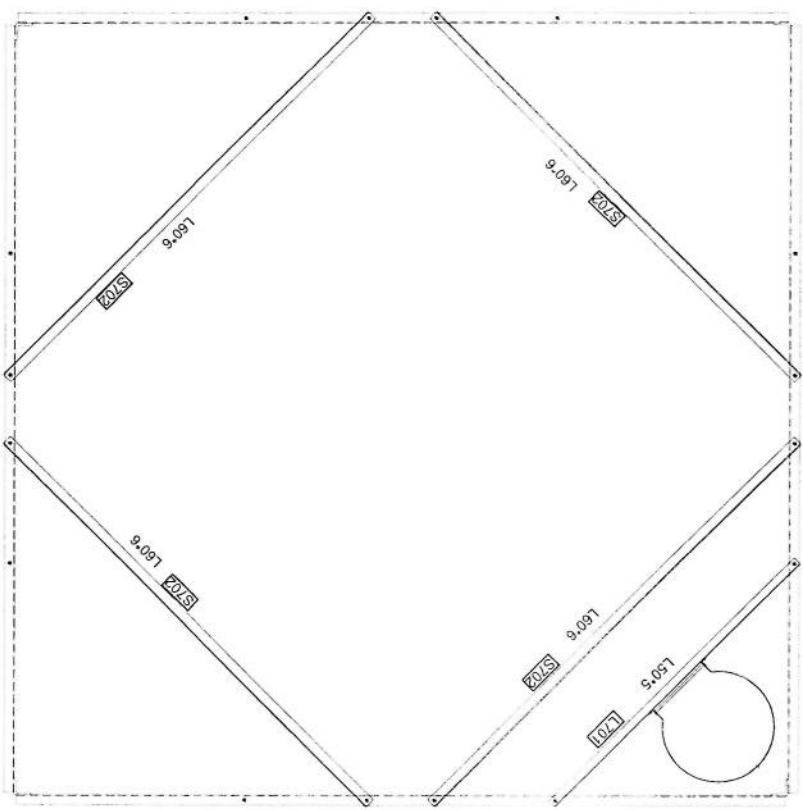
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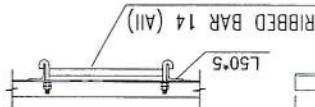
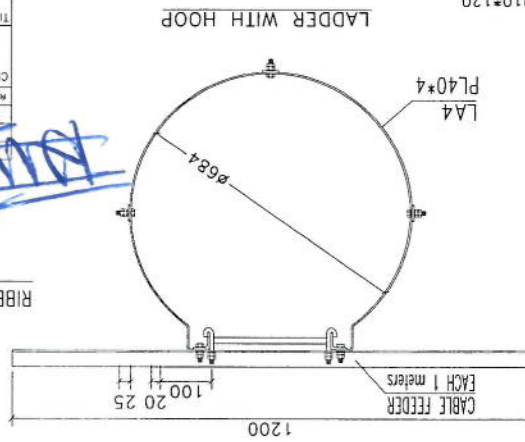
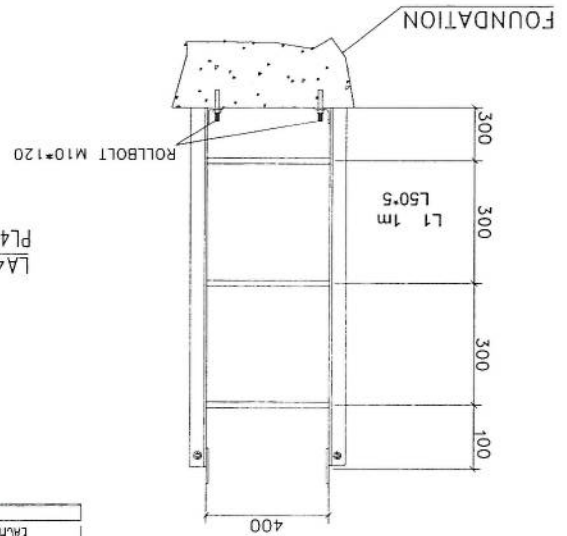
NOTE:
 1. ALL BOLT SET IN BRACING ARE M12-40
 2. ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
 3. ALL PLATE AND JOINT PLATE ARE PLATE 10mm



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

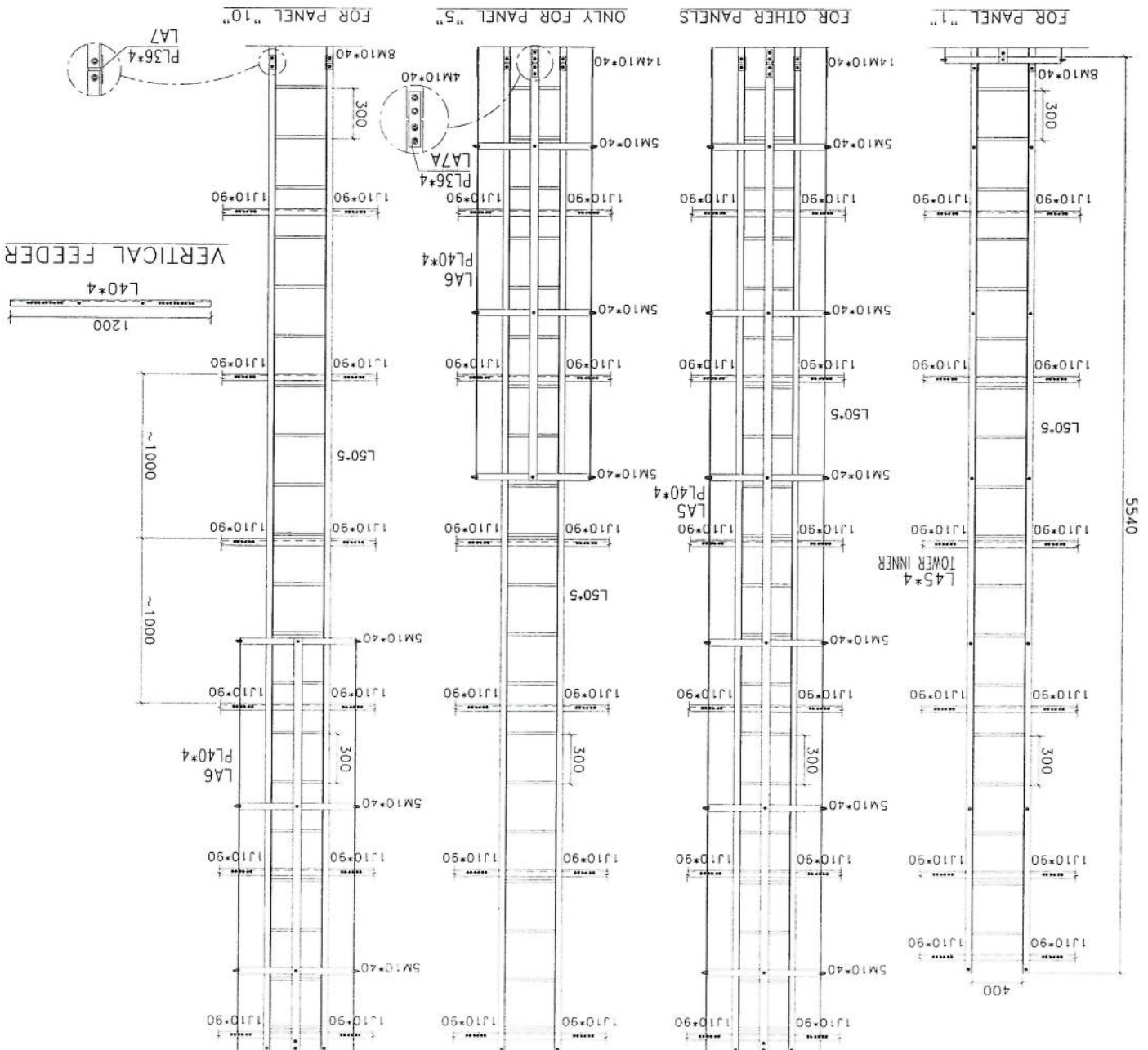
AFGHAN TELECOM
 APPROVAL DRAWING
 FOR TOWER TYPE 40-160-EPA10(AK1-40m)
 PANEL 4
 SUTAN MYSOOM
 DESIGN AND MANUFACTURE
 BAKALSAZAN
 BAKALSAZAN CO.
 SK
 DESIGN
 01.20





LADDER WITHOUT HOOP

REV	1	OF 20	DATE	10/20
SCALE	DARULSAZAN DWG NO.			
FORMAT	A1			
DESIGN STAGE	DETAIL DESIGN			
 DARULSAZAN BAITAN CO.				
DESIGN AND MANUFACTURER				
CONTRACTOR				
 SUTIRAN MYROOM				
FOR TOWER TYPE 40-160-EP(A10(AK1-40m))				
APPROVAL DRAWING				
 ARQHAN TELECOM				
CLIENT:				
REV	FIRST ISSUE			
DATE	10/20	10/20	10/20	10/20

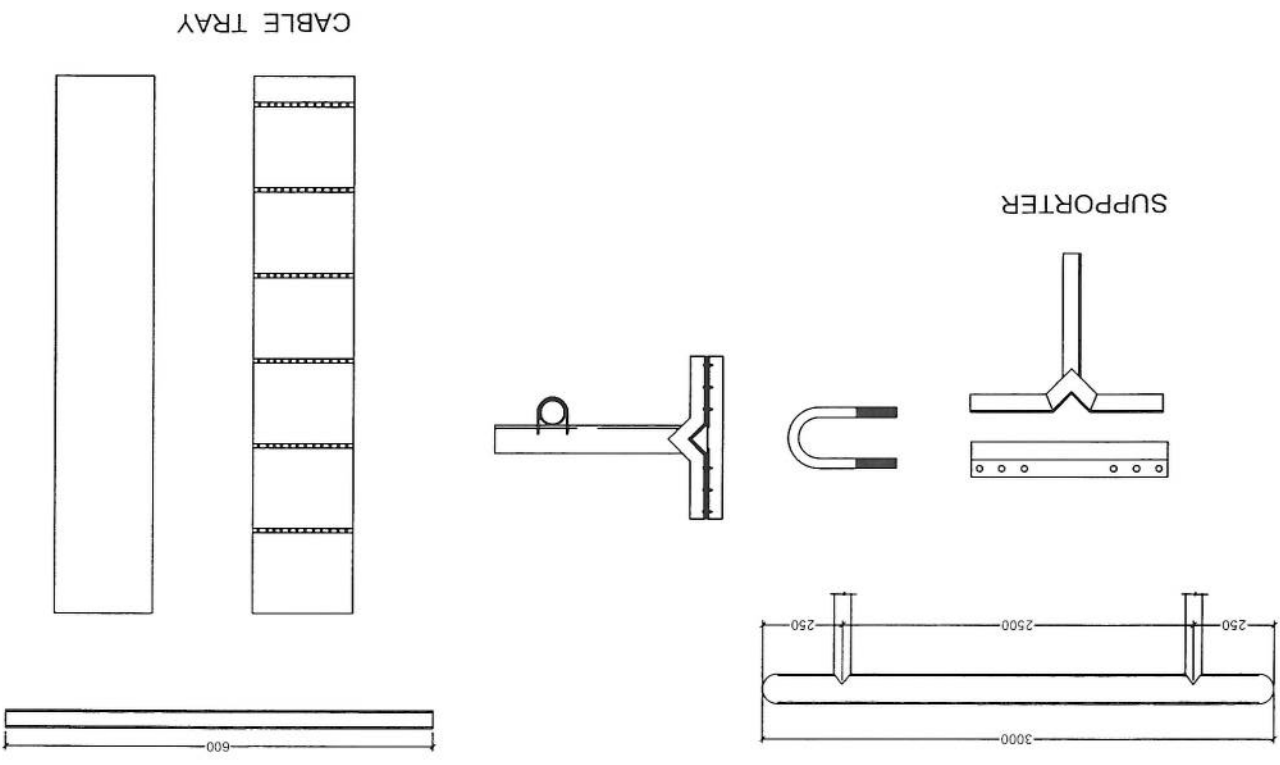


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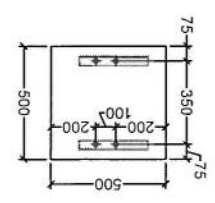
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DAKALSAZAN DWG NO:		DAKALSAZAN		BALKAN CO.		DESIGN AND MANUFACTURER		CONTRACTOR	
TITLE:		AFGHAN TELECOM		APPROVAL DRAWING		FOR TOWER TYPE 40-160-EPA10(AK1-40m)		PANEL 4	
CLIENT:		AFGHAN TELECOM		APPROVAL		DATE		DATE	
REV		DESCRIPTION		DESIGN		CHECK		DATE	
2		FIRST ISSUE		A GH		A GH		DATE	
3		13.0398		2.60796		3.31866		2.488995	
4		2.76555		3.98816		2.76555		L60X6	
5		0.5		1.6		0.5		L60X6	
6		0.5		2.76555		2.76555		L60X6	
7		0.5		2.76555		2.76555		L60X6	
8		0.3		0.27501		0.27501		L60X6	
TOTAL WEIGHT		161.29 Kg		35		9.62535		161.29 Kg	

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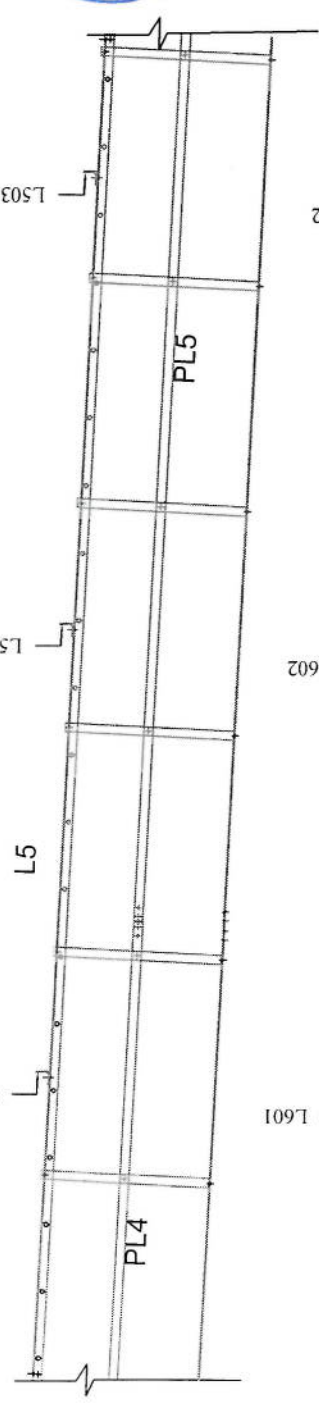
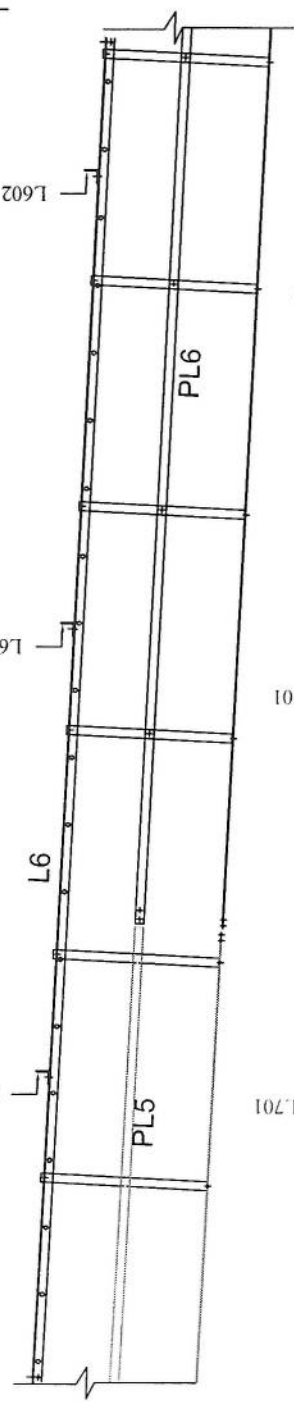
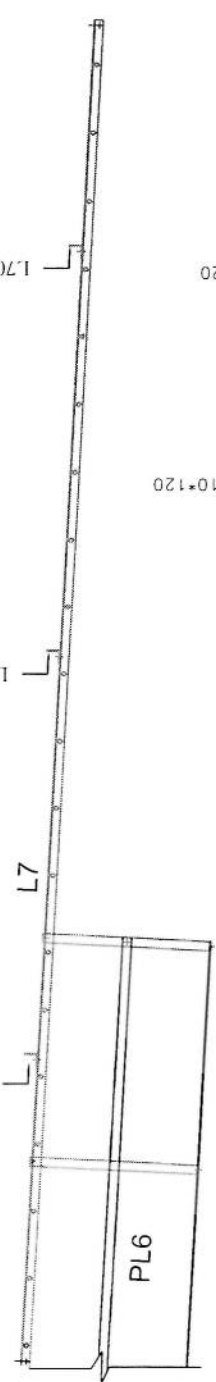
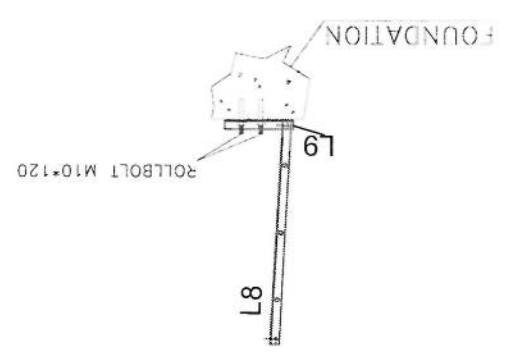
Sr.No	Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
1	SUPPORT		(60X3)MM PIPE	3	13.0398	3	39.1194
2	SUPPORT		(60X3)MM PIPE	2	2.60796	2	5.21592
3	ANGLE	SL 1	L60X6	0.6	3.31866	3	9.95598
4	ANGLE	ANG	L60X6	0.45	2.488995	20	49.7799
5	ANGLE	ANG	L60X6	0.5	2.76555	5	13.82775
6	PIPE	PIPE	(27X2.6)MM PIPE	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 WEIGHT							161.29 Kg



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ROLLBOLT M10*120



Handwritten signature in blue ink.

SUTAN MYSOOM ENGINEERING & CONSTRUCTION SERVICES		DARALSAZAN KALAN CO. DESIGN AND MANUFACTURE	
APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4		AFGHAN TELECOM	
DESIGNED BY CHECKED BY DATE	DRAWN BY DATE	PROJECT NO. DATE	SCALE DRAWN AT DESIGN STAGE DATE

5

4

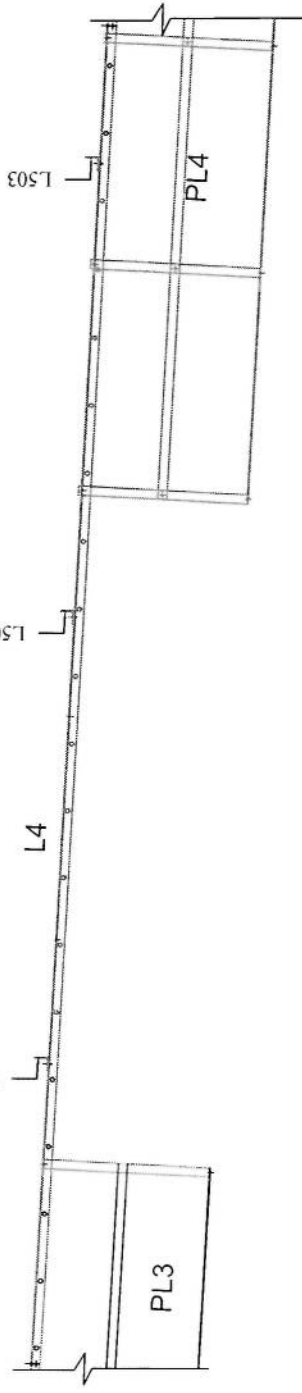
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2

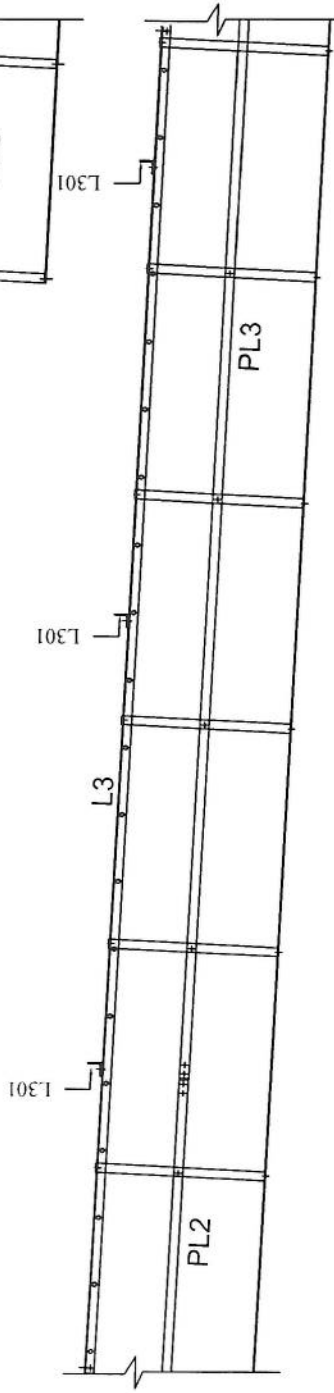
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A B C D E F G

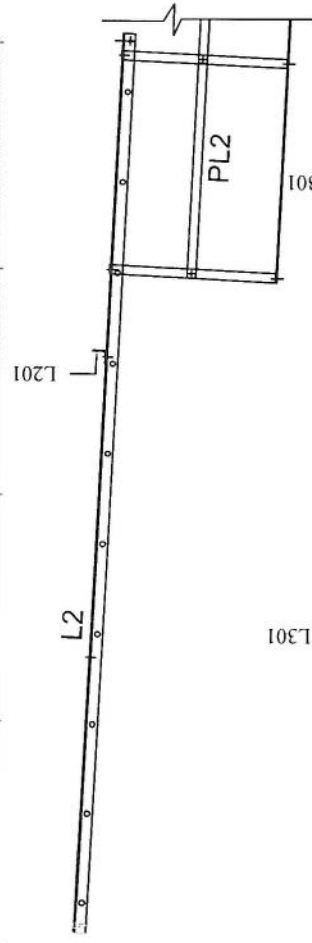
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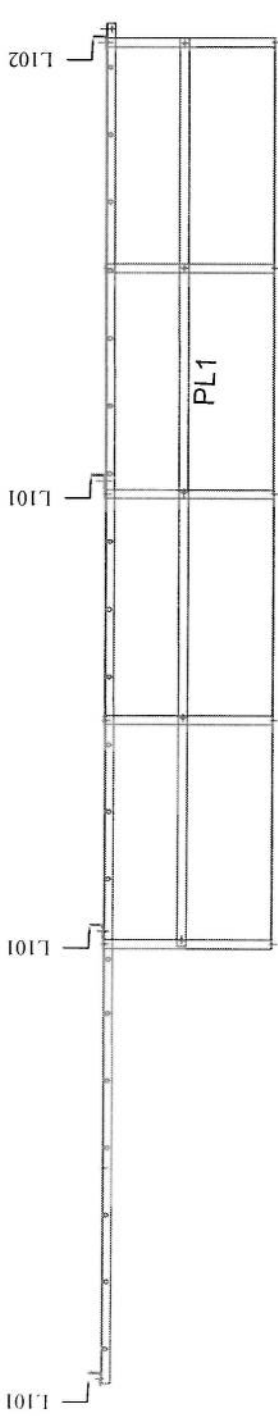
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3



4



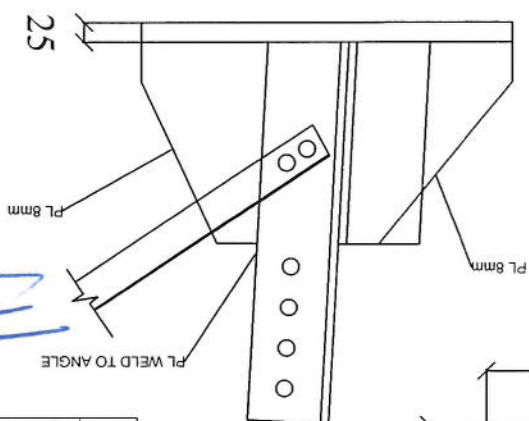
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SCALE		DATE	
1	0.1:20		
REV.		SHEET / TOTAL	
DESIGN AND MANUFACTURE		DRAUGHTSMAN	
DARMAZAN KALAN CO.		DARMAZAN KALAN CO.	
CONTRACTOR		SULTAN MANSOUR	
APPROVAL DRAWING		FOR TOWER TYPE 40-160-EPA10(AK1-40m)	
CLIENT		AFGHAN TELECOM	
PROJECT CODE		PROJECT NAME	
PROJECT LOCATION		PROJECT DATE	
PROJECT STATUS		PROJECT VALUE	
PROJECT RISK		PROJECT COMPLETION	

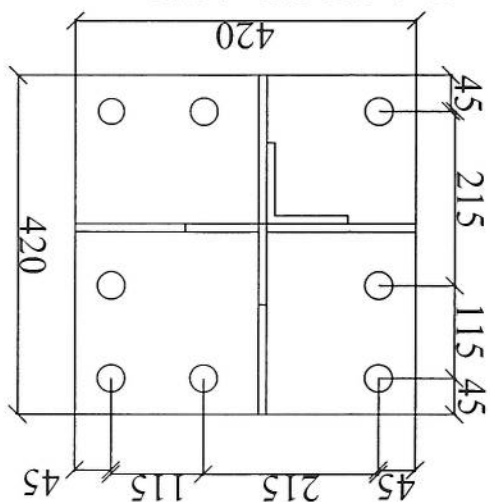
[Handwritten signature]

SCALE: 1:1		REV: 0		1 OF 20																			
DAKAL SAZAN DWG NO: 10101A																							
DESIGN STAGE: DETAIL DESIGN																							
FORMAT: A1																							
DESIGN AND MANUFACTURER: DAKAL SAZAN KALAN CO.																							
CONTRACTOR: SULTAN MYSOOM																							
TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4																							
CLIENT: AFGHAN TELECOM																							
<table border="1"> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APP</th> <th>CHK</th> <th>DESIGN</th> </tr> <tr> <td>1</td> <td>ISSUE</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						REV	DESCRIPTION	DATE	APP	CHK	DESIGN	1	ISSUE					2					
REV	DESCRIPTION	DATE	APP	CHK	DESIGN																		
1	ISSUE																						
2																							

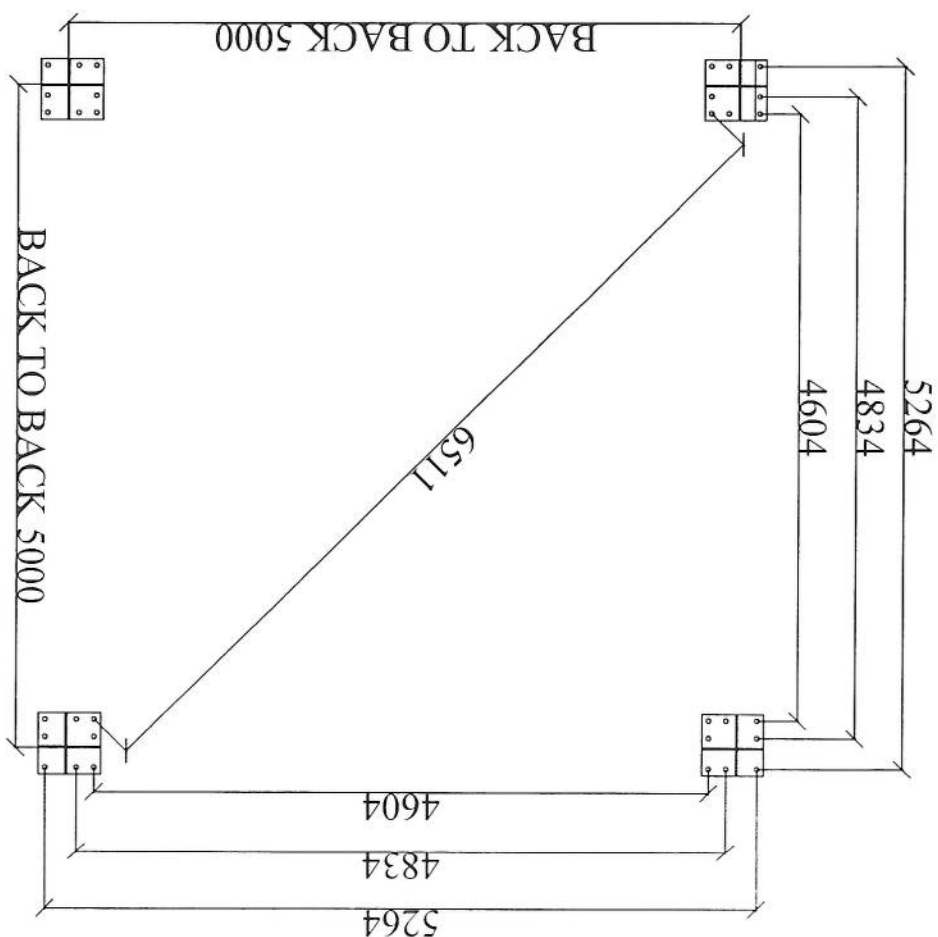
BASE PLATE



BASE PLATE



SECTION OF BASE PLATE

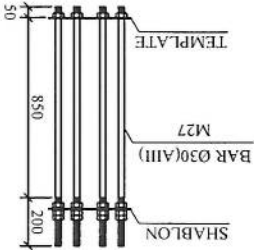
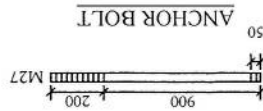


Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BASE	B5	PL 420X420X25	1	35.6586	4	142.6344
BASE	STF	PL 250*189*8	1	3.0591	2	6.1182
BASE	STF	PL 250*130*8	1	2.1012	2	4.2024
BASE	ANGLE	L100X10	0.5	7.6838	4	30.7352
BASE	ANGLE	L100X10	0.25	3.8419	4	15.3676
BASE	ANCHOR BO	Ø 30	1.1	6.28815	32	201.2208
BASE	TEMP PLATE	PL 40X40X5	1	6.4684	4	25.8736
BASE	NUT 30	NUT 30	1	0.309	128	39.552
BASE	Cable Tray	GI SHEET 1.8 mm	1	58.71	1	58.71
Total weight						524.41KG

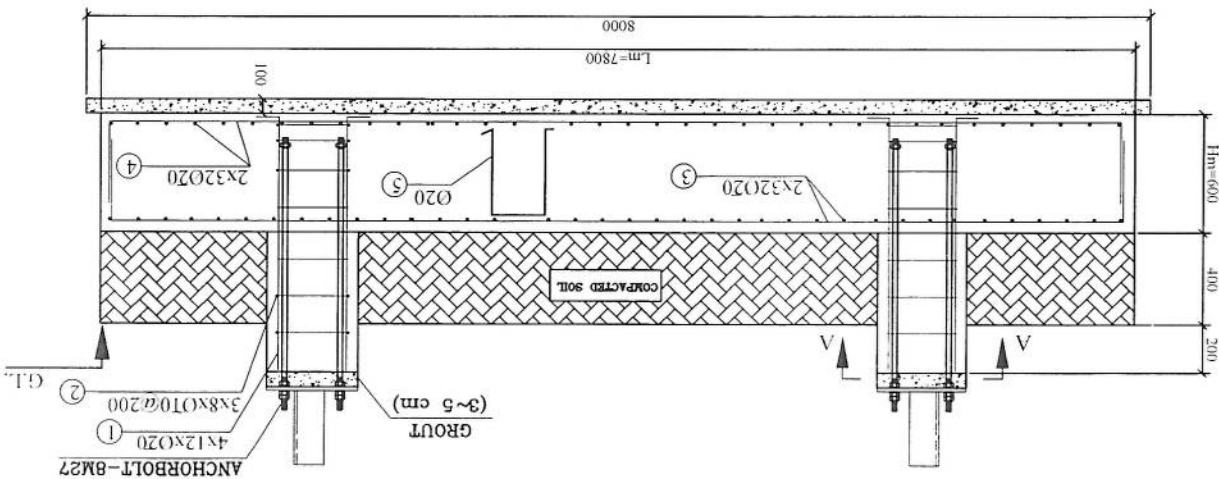
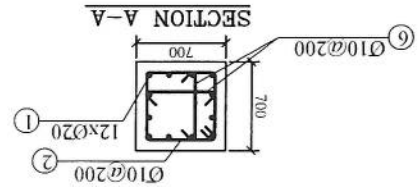
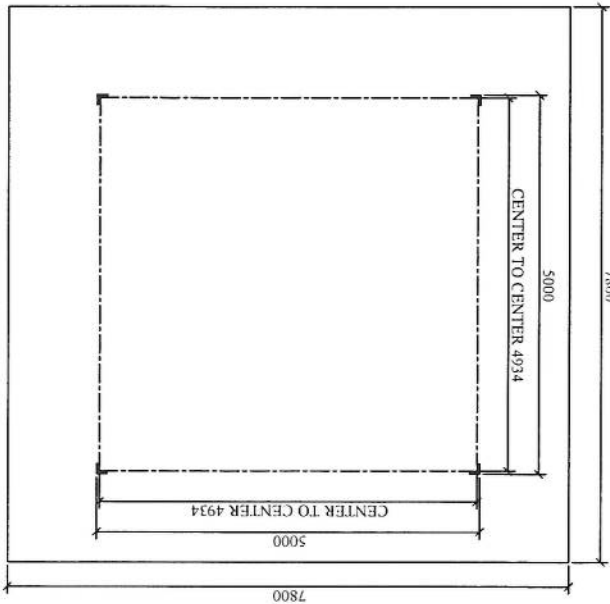
POS.	BENDING DIAGRAM	* NO. ROD.	UNIT WEIGHT IN KG	TOTAL WEIGHT IN KG	UNIT WEIGHT IN KG	TOTAL WEIGHT IN KG
1	30	20	12.4	1.35	64.8	2.47
2	L=240 550	10	6.4	2.40	57.6	0.617
3	30	20	32.2	8.25	528	2.47
4	30	20	32.2	8.25	528	2.47
5	30	20	58	1.80	104.4	2.47
6	10	10	48	0.75	36	0.617
CON. VOL. = 37.7m ³ TOTAL WEIGHT (kg) : 3084						

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

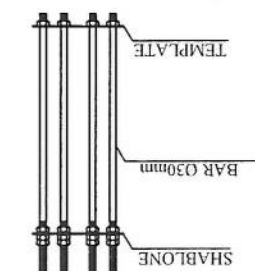
- NOTE :
1. ALL DIMENSION ARE IN MM.
 2. F_c=210 kg/cm² AFTER 28 DAYS ON CYLINDER SPEC.
 3. GRADE OF BARS: AIII FOR D>12mm
 4. COVER ON BARS IS 75 mm.
 5. THICKNESS OF LEAN CONCRETE 10cm.



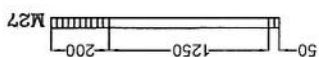
FOUNDATION PLAN



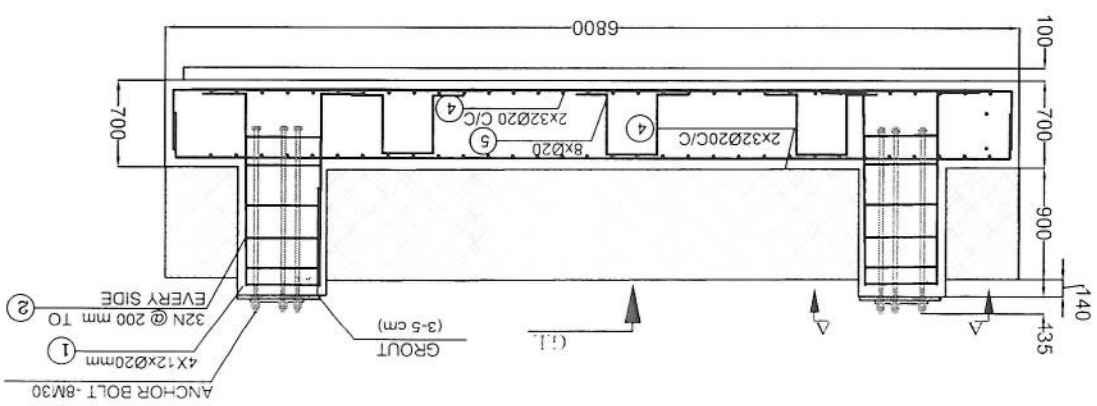
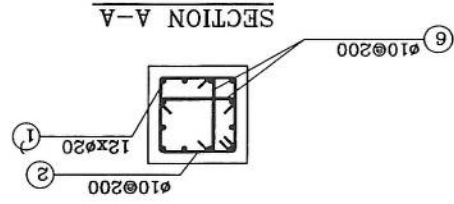
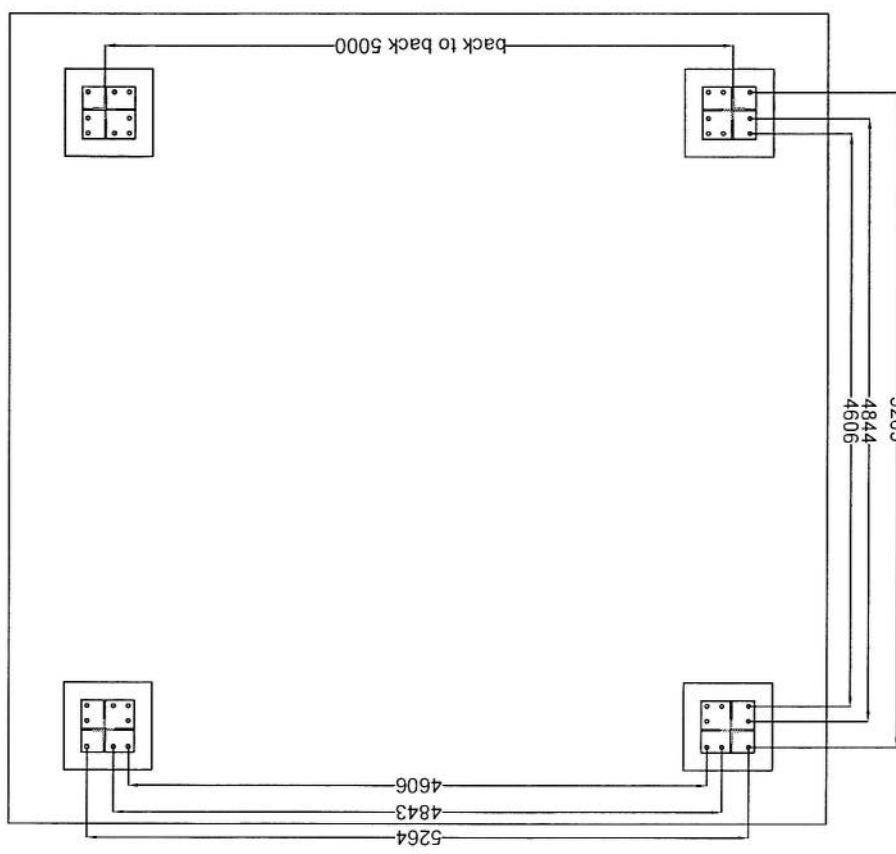
CLIENT:	AFGHAN TELECOM
TITLE:	APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4
CONTRACTOR:	SUITAN MYROOM
DESIGN AND MANUFACTURER:	DAKATSAZAN KALAN CO.
SCALE:	FORMAT: A1
DAKATSAZAN DWG NO:	DESIGN STAGE: DETAIL DESIGN
REV:	SH / TOTAL



ANCHOR BOLT



SECTION OF BASE PLATE



POS	BENDING DIAGRAM	Ø	NO. ROD	UNIT LENGTH m	UNIT WEIGHT kg/m	UNIT WEIGHT kg
1		50	20	12.4	1.89	90.72
2		50	10	6.4	2.4	57.6
3		50	20	32.2	7.64	488.96
4		50	20	32.2	7.64	488.96
5		50	20	60	2.06	123.6
6		50	10	60	0.7	45
TOTAL WEIGHT (kg) : 3009						

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

- NOTE :
- 1- ALL DIMENSION ARE IN MM.
 - 2- F_c=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.

Plan of well-depth-3m

1200

900

25mm

16mm

Detail-A

Soft soil

Ø Copper Wire 25mm

16mm Copper Rod

35*5*0.5-Cm Copper Bus Bar

PVC Pipe 3-inch

120

200

100

320

GL

Salt and Charcoal

Copper Plate 600*600*3mm

Item List

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