

01	SITE PLAN
07	REF. A101



LEGEND:

	CRUSHED ROCK	شماره
	POC	میدان
	DOOR TYPE 1	درب ورودی

GSM SITES

سببیت های جی آنی ام

DRAWING TITLE:

SITE PLAN WITH FENCE WALL

Journal of Management Education 34(10)p.1171-1186

DRAWN BY: 

CIVIL TEAM

CHECKED BY: مُتَوَلَّى:

APPROVED BY: J. J. Jones

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ACTUAL DATE:	1:75
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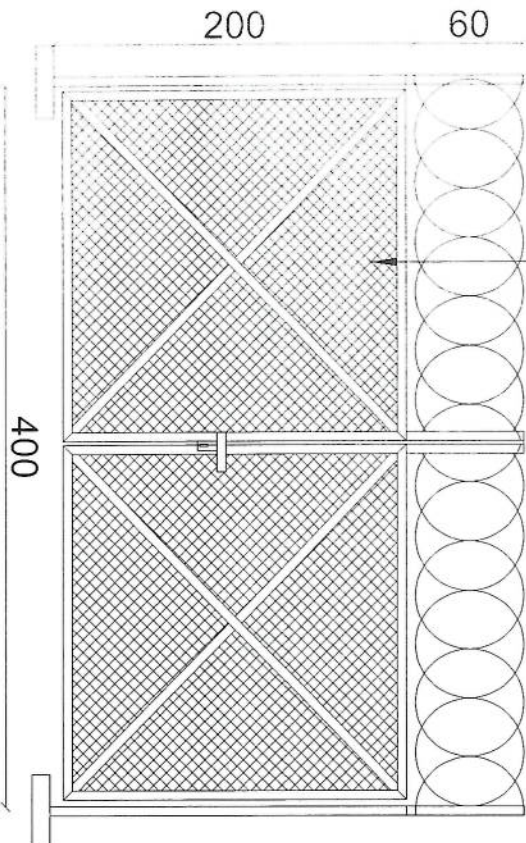
ISSUE DATE:	DRG.NO: 01
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OWNER: **مطابق قرارداد:**
AFGHAN TELECOM

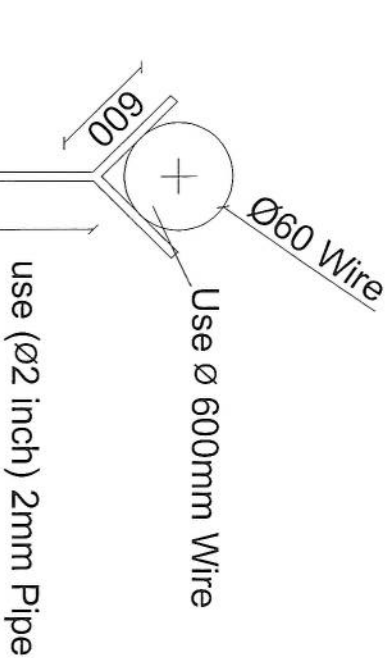
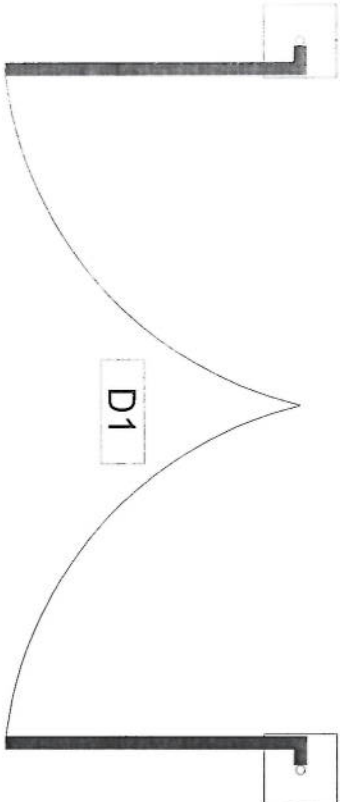
Salam Telecomunication Company

USE 6mm Fence

D1



D1



REVISION RECORDS	
REVISION NO	DATE DESCRIPTION
1	24/03/2025

LEGEND:

BRICK PIED

DOOR TYPE 1

PROJECT TITLE / NO:

GSM SITES

موقع های GSM

DRAWING TITLE:

DOOR & COLUMN DETAILS

مفصلیات در و ستون

DRAWN BY:

CIVIL TEAM

CHECKED BY:

مهندس

APPROVED BY:

SCALE: 1:25

ACTUAL DATE: 24/03/2025

ISSUE DATE: DRG NO: 02

OWNER: افغان تیلیکام

AFGHAN TELECOM

Salman Engineering Company
AFGHANISTAN

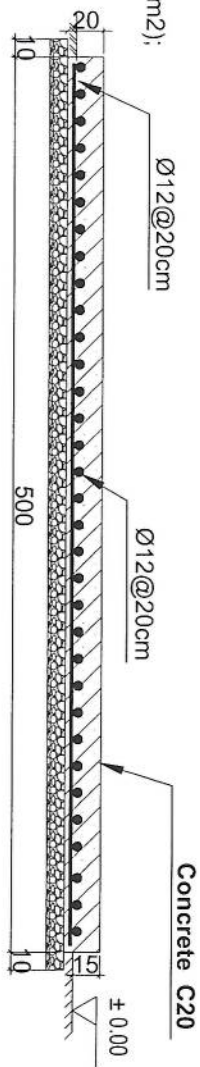
REVISION RECORDS			
REVISION NO	DATE	DESCRIPTION	
1	24.03.2025	Issued	

LEGEND:	
CRUSHED ROCK	
RCC PLASTER	
RCC	
GROUND LEVEL	

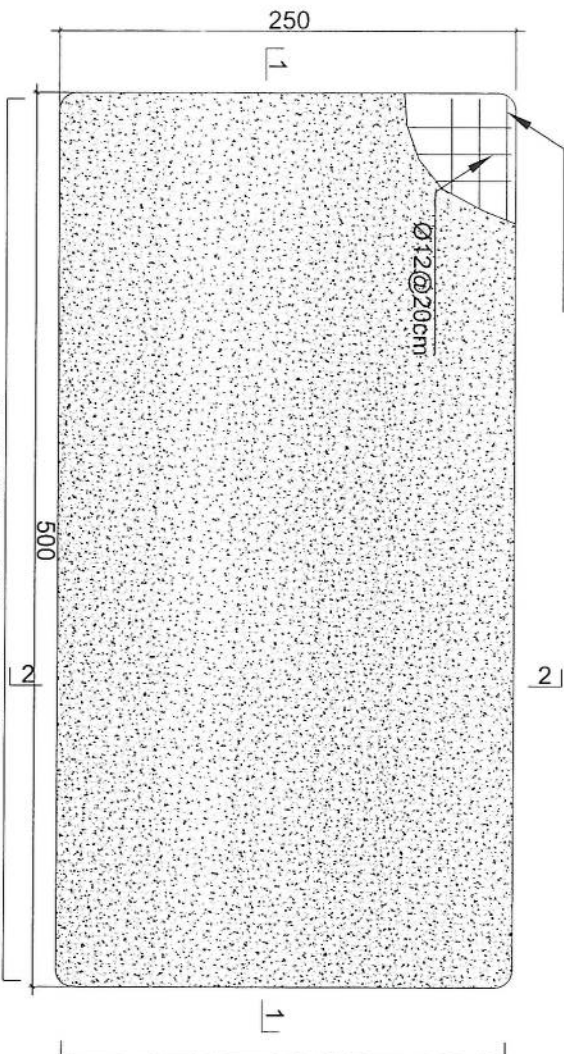
PROJECT TITLE / NO:	GSM SITES
DRAWN BY:	CIVIL TEAM
CHECKED BY:	
APPROVED BY:	
SCALE:	1:25
ACTUAL DATE:	24.03.2025
ISSUE DATE:	24.03.2025
OWNER:	AFGHAN TELECOM
PROJECT LOCATION:	KABUL, AFGHANISTAN

DRAWING TITLE:	GENERATOR FOUNDATION
DRAWN BY:	CIVIL TEAM
CHECKED BY:	
APPROVED BY:	
SCALE:	1:25
ACTUAL DATE:	24.03.2025
ISSUE DATE:	24.03.2025
OWNER:	AFGHAN TELECOM
PROJECT LOCATION:	KABUL, AFGHANISTAN

- Notes:
- The foundation is adopts reinforced concrete, the concrete is C20; (C20:compressive strength is 20N/mm²); the foundation lays on a 10cm thick crush stone pad;
 - Ø12: mild steel, rebars strength 210N/mm²
 - minimum concrete cover for rebar is 3.5cm,
 - All units are in cm
 - All edges of the Slab should be curve



1-1 section



2-2 section

N=26 Ø12mm@20cm L=2.63

N=14 Ø12mm@20cm L=5.13

Generator Foundation

[Signature]

REVISION RECORDS			
REVISION NO	DATE	DESCRIPTION	
1	24/02/2025	ISSUE	

LEGEND:	
CRACKED ROCK	
PCC	

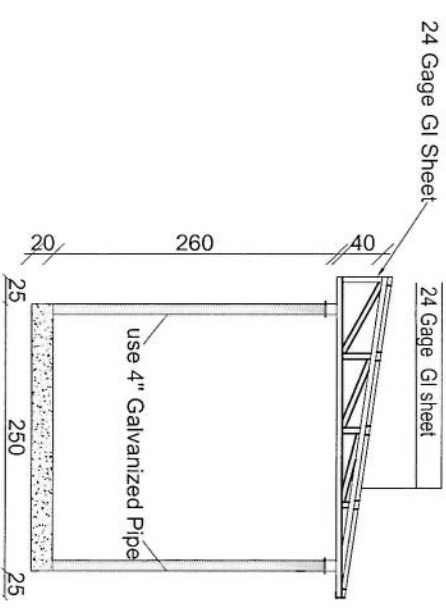
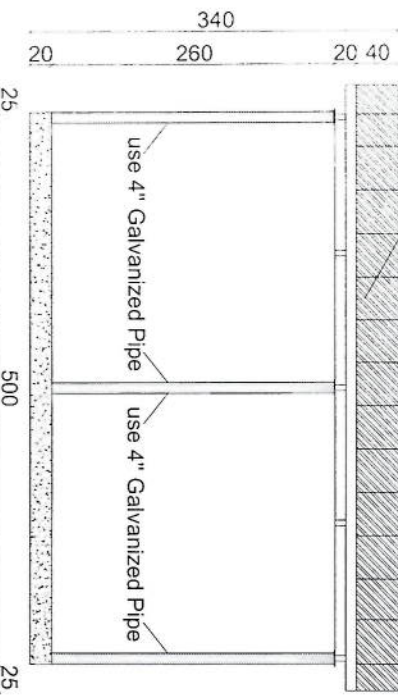
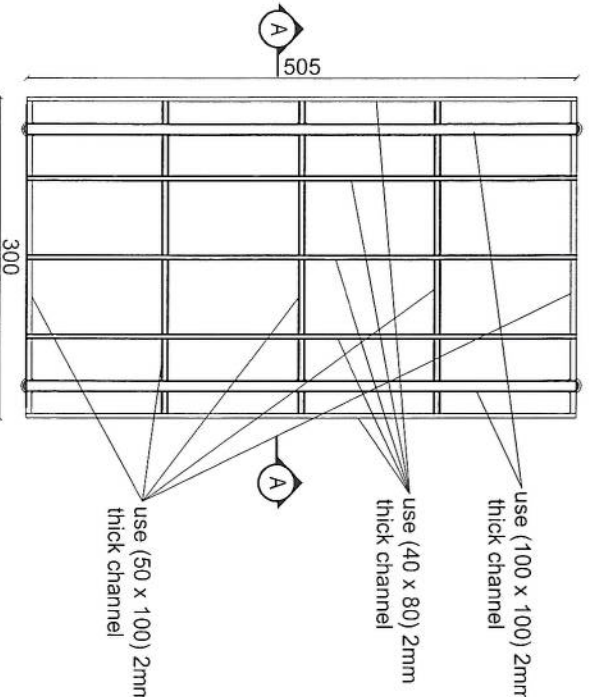
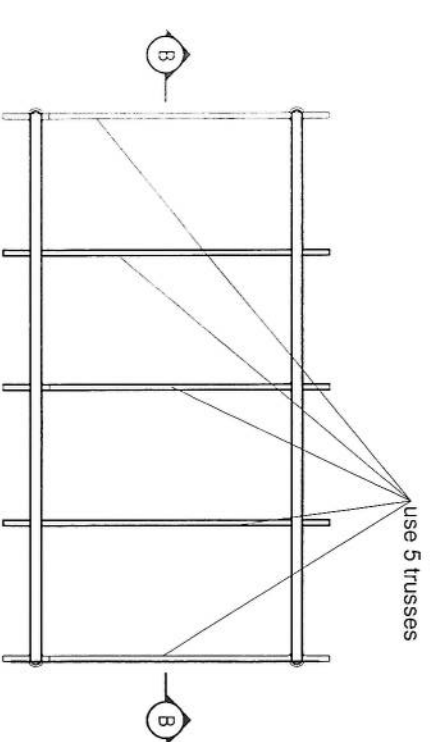
PROJECT TITLE / NO:	GSM SITES
PLAN	

DRAWING TITLE:	SUN SHELTER FOR GENERATOR
DRAWN BY:	CIVIL TEAM
CHECKED BY:	

APPROVED BY:	
SCALE:	1/75
ACTUAL DATE:	24/02/2025
ISSUE DATE:	

OWNER:	AFGHANI TELECOM
OWNER:	

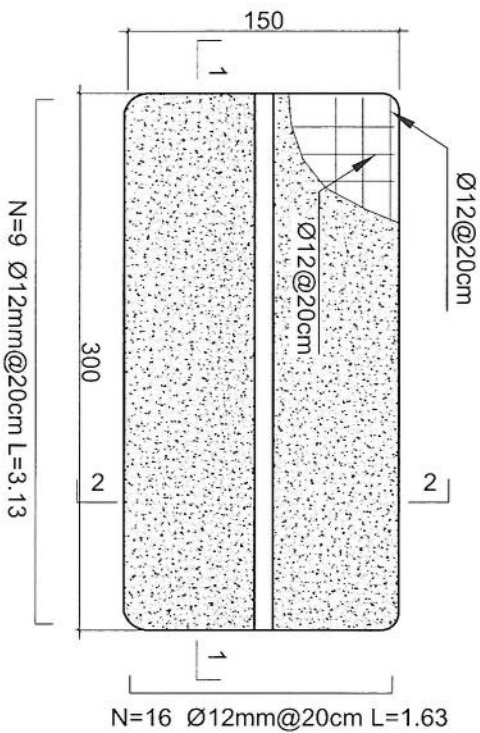
OWNER:	AFGHANI TELECOM
OWNER:	



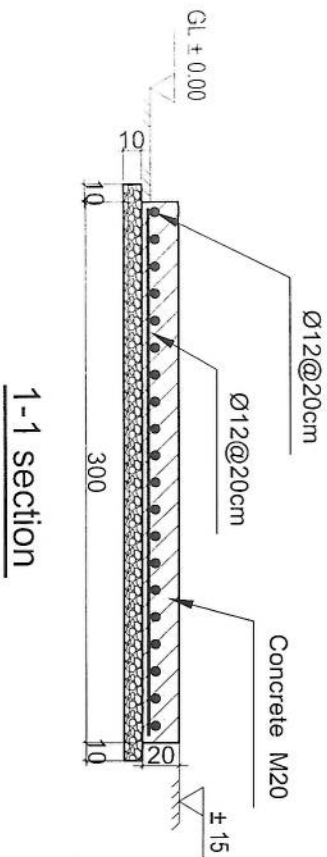
Section B-B

Section AA

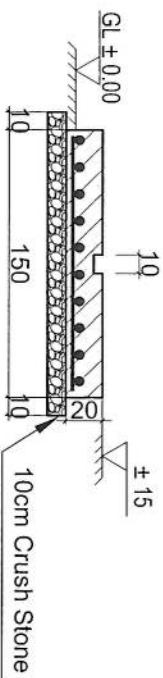
- Notes:
1. The foundation is adopts reinforced concrete, the concrete is M20; (M20:compressive strength is 20N/mm2); the foundation lays on a 10cm thick crush stone pad;
 2. Ø12: mild steel, rebar strength 210N/mm2
 3. minimum concrete cover for rebar is 3.5cm,
 4. All units are in cm
 5. All edges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



Outdoor BTS Foundation



2-2 section



REVISION RECORDS	
NO	DATE
1	24/03/2025

REVISION NO	DATE	DESCRIPTION
1	24/03/2025	Issue for construction

LEGEND:	SYMBOL
CRUSHED ROCK	[Symbol]
PCC (PLASTER)	[Symbol]
RCC	[Symbol]
GROUND LEVEL	[Symbol]

PROJECT TITLE / NO:	GSM SITES
DRAWING TITLE:	ZTE OUTDOOR BTS FOUNDATION
DRAWN BY:	CIVIL TEAM
CHECKED BY:	
APPROVED BY:	

SCALE:	1:25
ACTUAL DATE:	24/03/2025
ISSUE DATE:	24/03/2025
OWNER:	AFGHAN TELECOM
DESIGNER:	Sikam Telecommunication Company
LOCATION:	AFGHANISTAN

Use 24 Gage GI Sheet

24 Gage GI Sheet

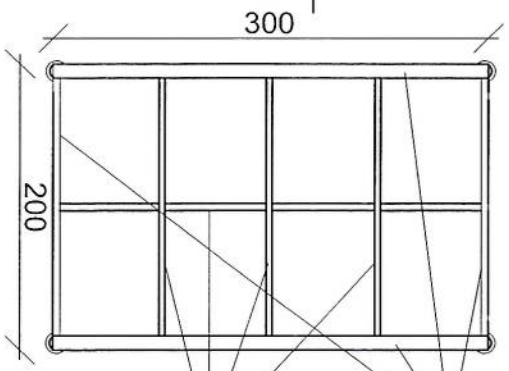
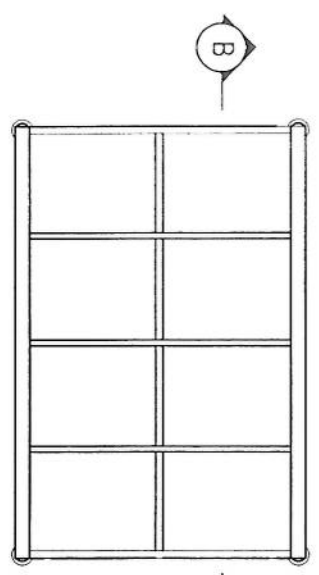
24 Gage GI sheet

use 4" Galvanized Pipe

use 4" Galvanized Pipe

Section BB

Section AA



use (100 x 100) 2mm thick channel

use (50 x 100) 2mm thick channel

0 / SUN SHELTER FOR ZTE BTS

0 / Ref. A105

SCALE: 1:50

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REVISION RECORDS			
REVISION NO	DATE	DESCRIPTION	
1	24/03/2025	Issue for construction	

LEGEND:	
CHAINED ROCK	
POC	

PROJECT TITLE / NO:	GSM SITES
OWNER:	SAFARI TELECOM

DRAWING TITLE:	SUN SHELTER FOR ZTE BTS
DRAWN BY:	SAFARI TELECOM

CHECKED BY:	SAFARI TELECOM
APPROVED BY:	SAFARI TELECOM

SCALE:	1:50
ACTUAL DATE:	24/03/2025
ISSUE DATE:	24/03/2025
DRG NO:	06

OWNER:	SAFARI TELECOM
AFGHAN TELECOM	
KABUL	
AFGHANISTAN	

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TOWER TYPE "AK1"

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

G

F

E

D

C

B

A

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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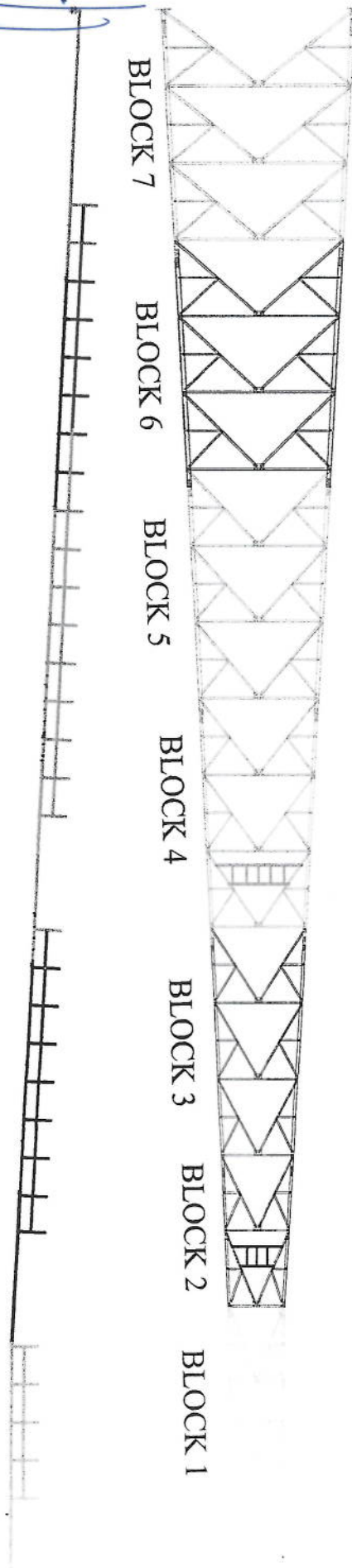
Watermark: SULTAN MAYSOOM ENGINEERING & LOGISTICS SERVICES

G T E D C B A

RED	WHITE	RED	WHITE	RED
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40M TOWER VIEW

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

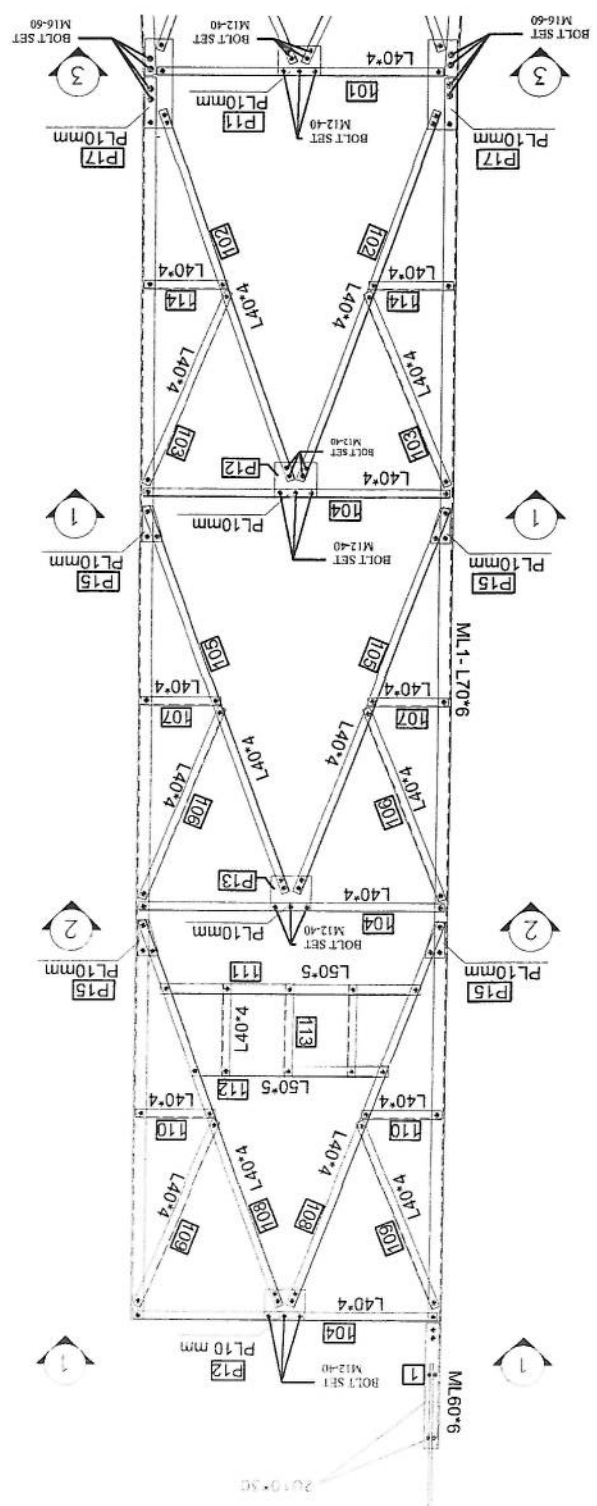
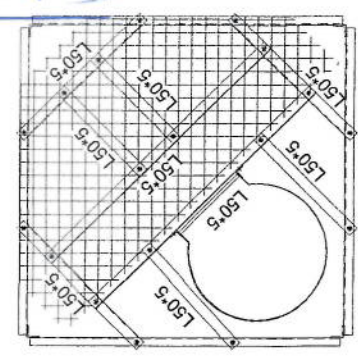
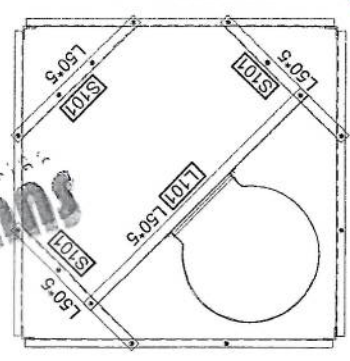


SULTAN MYSOOM
ENGINEERING SERVICES

SCALE: 1 OF 20		REV: 0	
DAKALSAZAN DWG NO:		DESIGN STAGE: DETAIL DESIGN	
DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.		CONTRACTOR: SULTAN MYSOOM	
TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4		CLIENT: AFGHAN TELECOM	
REV	DESCRIPTION	DESIGN	CHECK
1	APPROVAL	APPROVAL	APPROVAL
2	DESIGN	DESIGN	DESIGN
3	APPROVAL	APPROVAL	APPROVAL
4	DESIGN	DESIGN	DESIGN
5	APPROVAL	APPROVAL	APPROVAL

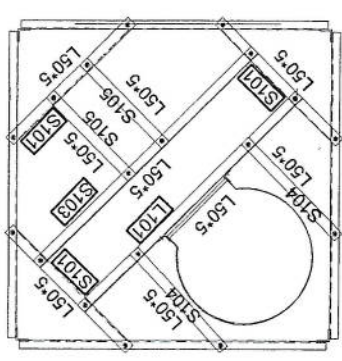
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SECTION 2-2

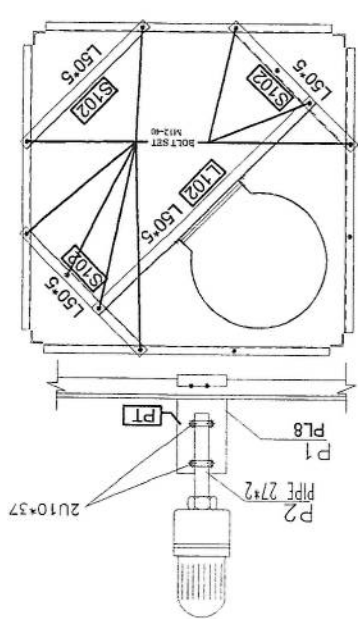


NOTE:
1. ALL BOLT SET IN BRACING ARE M12-40
2. ALL BOLT SET IN MAIN LEGS ARE M16-60

SECTION 2-2



SECTION 3-3



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

DATE	1 OF 20
SCALE	0
DESIGN STAGE	DESIGN
DESIGN NO.	DAKASAZAN DWG NO.
DESIGNER	DAKASAZAN
CONTRACTOR	DAKASAZAN
APPROVAL	APPROVAL
DATE	1 OF 20

Block	Material	Description	Length	Weight	Quantity	Total Weight
BL1	ST37	WASHER	1	0.008446	442	3.733132
BL1	ST50	BOLT SET M16-60	1	0.16274	32	5.20768
BL1	ST50	BOLT SET M12-40	1	0.06798	410	27.8718
BL1	ST50	U10x30	1	0.206	2	0.412
BL1	ST50	U10x37	1	0.206	2	0.412
BL1	ST50	L60x6	0.6	3.1866	1	3.1866
BL1	ST50	PL400x150x8	1	3.8831	1	3.8831
BL1	ST50	PT	1	1.2463	8	9.9704
BL1	ST50	P18	1	2.987	8	23.896
BL1	ST50	P17	1	1.6583	16	26.5328
BL1	ST50	P15	1	3.1003	4	12.4012
BL1	ST50	P13	1	1.9364	4	7.7456
BL1	ST50	P11	1	1.9364	8	15.4912
BL1	ST50	P12	1	5.569131	1	5.569131
BL1	ST50	L50x5	1.449	5.6283835	3	16.8851505
BL1	ST50	L101	0.569	2.1860411	2	4.3720822
BL1	ST50	S105	0.599	2.3012981	2	4.6025962
BL1	ST50	S103	1.465	5.6283835	1	5.6283835
BL1	ST50	S102	0.855	3.2848245	3	9.8544735
BL1	ST50	S101	0.8	3.07352	9	27.66168
BL1	ST50	Heavy Washers	1	0.2575	10	2.575
BL1	ST50	3/16 WASH 1/2" CC (0.225m2) 11K GSD	2.5	28.325	1	28.325
BL1	ST50	L40x4	0.396	0.9748332	8	7.796656
BL1	ST50	L40x4	0.495	1.2185415	12	14.622498
BL1	ST50	L50x5	0.88	3.80872	4	13.234488
BL1	ST50	L50x5	1.21	4.68699	4	18.594796
BL1	ST50	L40x4	0.375	0.9231375	8	7.3851
BL1	ST50	L40x4	1.006	2.4764702	8	19.8117616
BL1	ST50	L40x4	2.045	5.0292531	8	40.2340248
BL1	ST50	L40x4	0.375	0.9231375	8	7.3851
BL1	ST50	L40x4	1.004	2.4715468	8	19.7723744
BL1	ST50	L40x4	2.04	5.021808	8	40.174944
BL1	ST50	L40x4	1.475	3.6310075	12	43.57209
BL1	ST50	L40x4	0.978	2.4075436	8	19.2603408
BL1	ST50	L40x4	1.925	4.7387725	8	37.91018
BL1	ST50	L40x4	1.38	3.397146	4	13.588584
BL1	ST50	L40x4	6	38.9058	4	155.9832
BL1	ST50	Weight				705.96 Kg

BLOCK 1

DATE: 1 OF 20	
REV: SH / TOTAL	SCALE: 1:1
DAKALSAZAN DWG NO: DESIGN STAGE: DETAIL DESIGN	
CONTRACTOR: SUTAN MYSOOM ENGINEERING & CONSTRUCTION SERVICES	
CLIENT: AFGHAN TELECOM	
TITLE: FOR TOWER TYPE 40-160-EPA10(AK1-40m)	
APPROVAL DRAWING	
PANEL 4	
DESIGN: AFGHAN TELECOM	
CHECK: AFGHAN TELECOM	
DATE:	

REV	DESCRIPTION	DATE
1	FOR TOWER TYPE 40-160-EPA10(AK1-40m)	
2	FOR TOWER TYPE 40-160-EPA10(AK1-40m)	
3	FOR TOWER TYPE 40-160-EPA10(AK1-40m)	
4	FOR TOWER TYPE 40-160-EPA10(AK1-40m)	

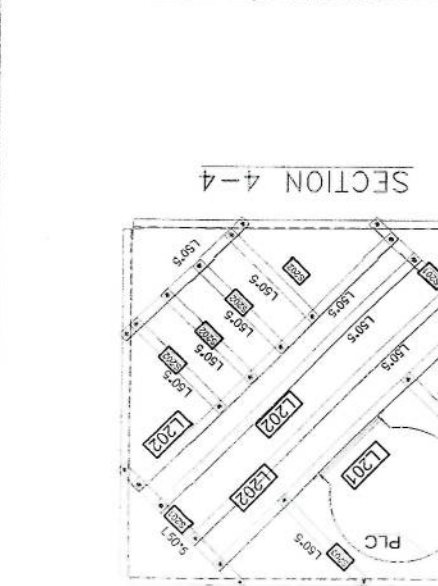
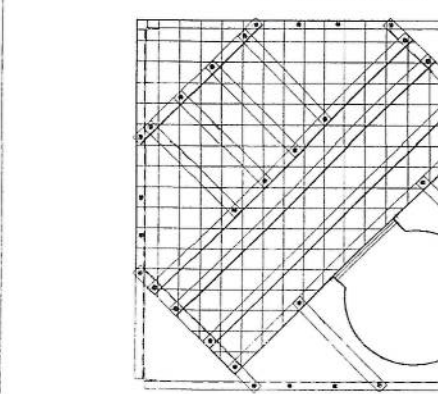
PROFILES GRADE LEGEND

1. L = ST37

2. ML = ST50

3. HT = ST52

4. ALL JOINT PLATES ARE ST52



NOTE:

1. ALL BOLT SET IN BRACING ARE M12-40

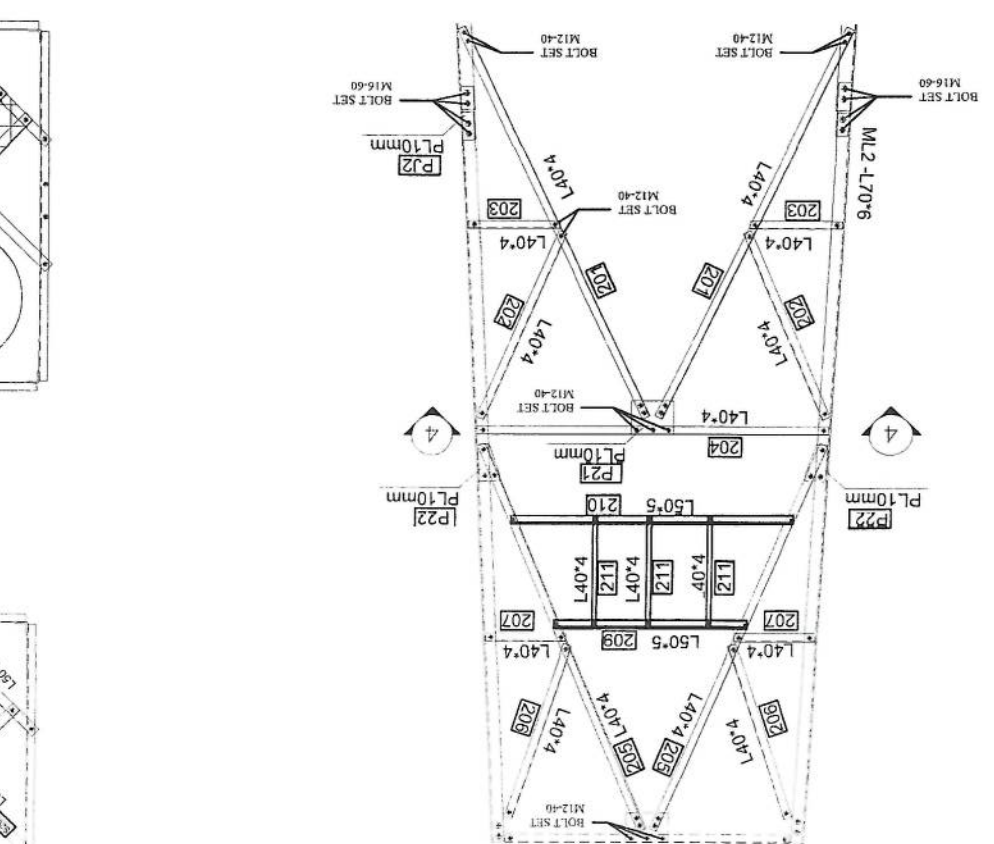
2. ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60

3. ALL PLATE AND JOINT PLATE ARE PLATE 10mm

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL2	ML2	L70X6	4.005	26.0296965	4	104.118786
BL2	201	L40X4	2.303	5.6692951	8	45.3543608
BL2	202	L40X4	1.083	2.660211	8	21.3281688
BL2	203	L40X4	0.425	1.0462225	8	8.36978
BL2	204	L40X4	1.69	4.160273	4	16.641092
BL2	205	L40X4	2.32	5.711144	8	45.689152
BL2	206	L40X4	1.115	2.7447955	8	21.958364
BL2	207	L40X4	0.37	0.910829	8	7.286632
BL2	209	L50X5	0.96	3.688224	4	14.752896
BL2	210	L50X5	1.38	5.301822	4	21.20788
BL2	211	L40X4	0.585	1.4400945	12	17.281134
BL2	S 201	L50X5	0.877	3.3693463	3	10.108389
BL2	S 202	L50X5	0.519	1.9939461	4	7.9757844
BL2	S 203	L50X5	0.579	2.2244601	2	4.4489202
BL2	L 201	L50X5	1.723	6.6195937	1	6.6195937
BL2	L 202	L50X5	1.723	6.6195937	3	19.8587811
BL2	Washer	PL100X40X8	0.2575	2.575	10	25.75
BL2	Bolt Set	M16-60	0.16274	5.20768	32	5.20768
BL2	Bolt Set	M12-40	0.06798	20.66592	304	20.66592
BL2	P 21	PL240*160*10	3.1003	12.4012	4	12.4012
BL2	P 22	PL119*110*10	1.0609	8.4872	8	8.4872
BL2	P12	PL320*60*10	1.5553	12.4424	8	12.4424
BL2	MJ2	L60X6	1.769952	7.079808	4	7.079808
BL2	MESH	HEVY MESH	28.325	28.325	1	28.325
BL2	WASHER		0.008446	2.837856	336	2.837856
						473.02 kg

Handwritten signature and date: 10/10/20

SECTION 4-4



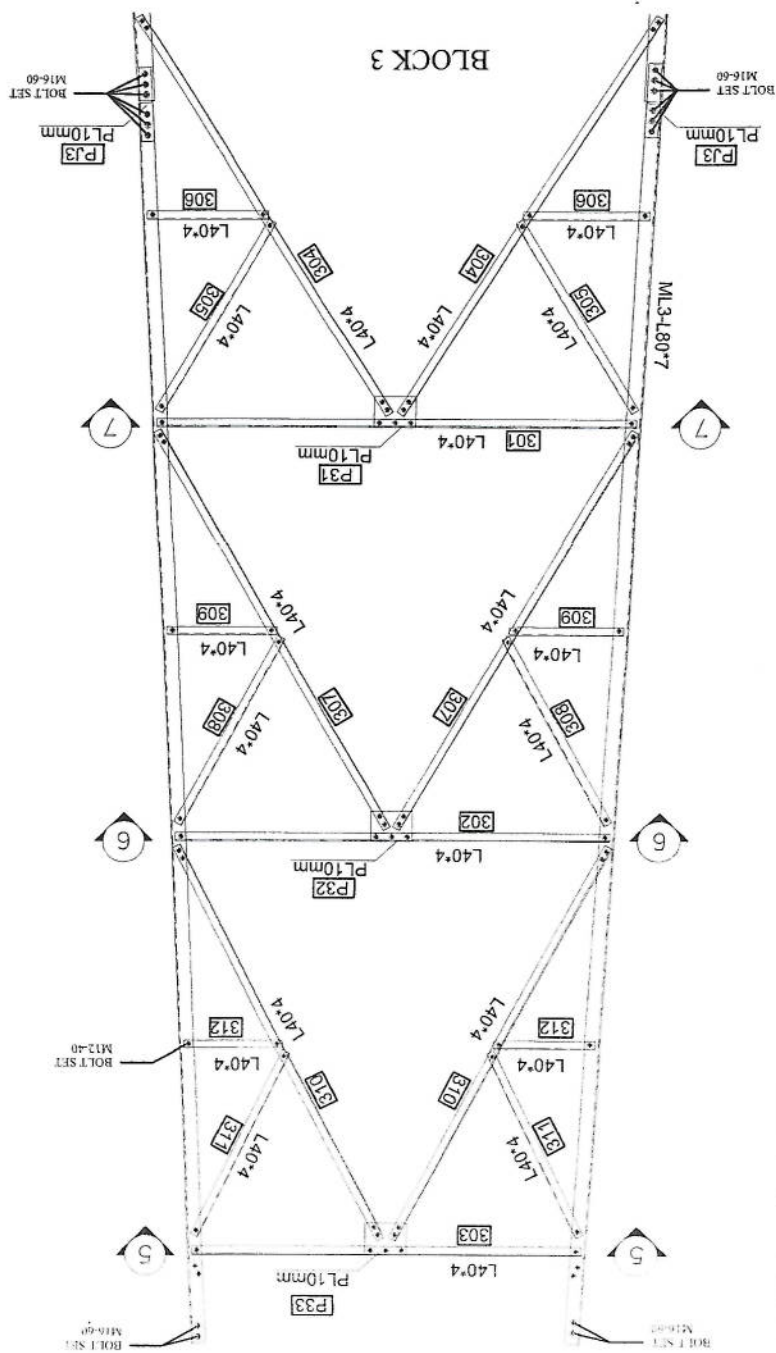
NOTE:

1. ALL BOLT SET IN BRACING ARE M12-40

2. ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60

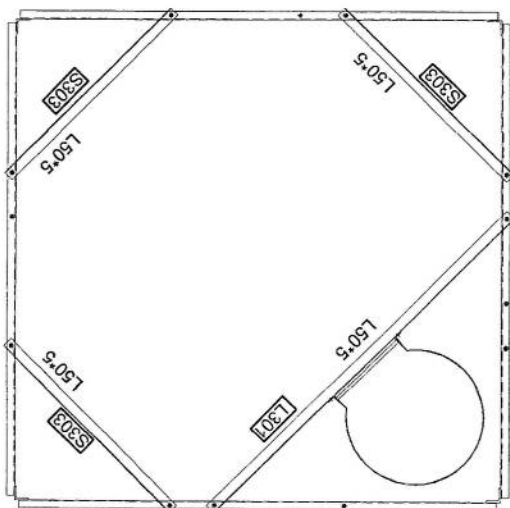
3. ALL PLATE AND JOINT PLATE ARE PLATE 10mm

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL3	ML3	LB07	6	51.9738	4	207.8952
BL3	BL3	L40x4	2.336	5.7505312	4	23.0021248
BL3	BL3	L40x4	2.122	5.2237274	4	20.8949096
BL3	BL3	L40x4	1.925	4.7387725	4	18.955095
BL3	BL3	L40x4	2.263	5.5708271	8	44.566106
BL3	BL3	L40x4	1.108	2.7275636	8	21.8205088
BL3	BL3	L40x4	0.573	1.410541	8	11.2844328
BL3	BL3	L40x4	2.73	5.489591	8	43.916728
BL3	BL3	L40x4	1.086	2.6734062	8	21.3872496
BL3	BL3	L40x4	0.526	1.2945342	8	10.3568336
BL3	BL3	L40x4	2.185	5.3786145	8	43.030516
BL3	BL3	L40x4	1.061	2.6118637	8	20.8949096
BL3	BL3	L40x4	0.478	1.1766926	8	9.4135408
BL3	BL3	PL30x70	1	2.0703	8	16.5624
BL3	BL3	UBX6	0.32	2.079776	4	8.319104
BL3	BL3	PL240x160x10	1	3.1003	4	12.4012
BL3	BL3	PL240x160x10	1	3.1003	4	12.4012
BL3	BL3	PL240x160x10	1	3.1003	4	12.4012
BL3	BL3	L301	1.993	7.656967	3	22.9707201
BL3	BL3	L50x5	0.717	2.7546423	3	8.2639269
BL3	BL3	L50x5	1	3.8419	3	11.5257
BL3	BL3	S302	1.31	5.032889	3	15.098667
BL3	BL3	Washer	1	0.2575	10	2.575
BL3	BL3	PL100x40x6	1	0.2774	48	7.81152
BL3	BL3	Bolt Set	1	0.06798	288	19.57824
BL3	BL3	WASHER	1	0.038446	336	2.837856
BL3	BL3	68x17 Kg				

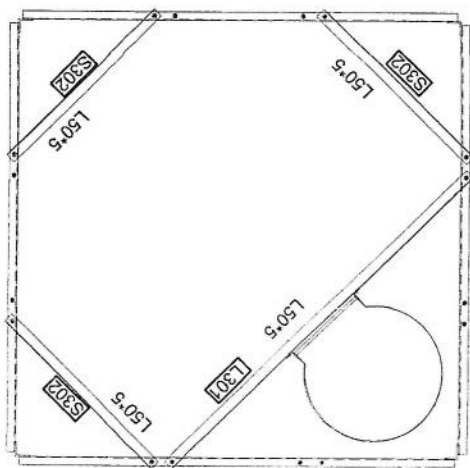


NOTE:
1. ALL BOLT SET IN BRACING ARE M12-40
2. ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
3. ALL PLATE AND JOINT PLATE ARE PLATE 10mm

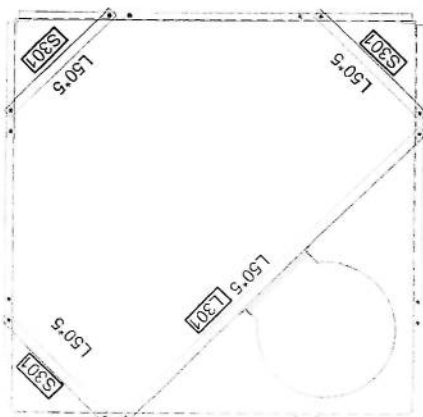
SECTION 7-7



SECTION 6-6



SECTION 5-5



REV.	0	1	OF: 20
SCALE:	DAKALSAZAN DWG. NO.		
DESIGN STAGE:	DESIGN STAGE: A1		
DESIGN AND MANUFACTURER:	KALAN CO.		
CONTRACTOR:	SUTAN M300M		
FOR TOWER TYPE 40-160-EPA10(AK1-40m)	PANEL 4		
APPROVAL DRAWING	SUTAN M300M		
CHECKED BY:	SUTAN M300M		
DATE:	SUTAN M300M		

SCALE: 1 OF 20	REV: 0	DATE: 10/10/20
PROJECT: DAKA SAZAN DWG NO: 10/10/20 DESIGN STAGE: DETAIL DESIGN CONTRACTOR: SUTAN MYROOM APPROVAL DRAWING: FOR TOWER TYPE 40-160-EPA10(AK1-40m) CLIENT: AFGHAN TELECOM DESIGNER: SUTAN MYROOM CHECKER: SUTAN MYROOM APPROVER: SUTAN MYROOM DATE: 10/10/20		

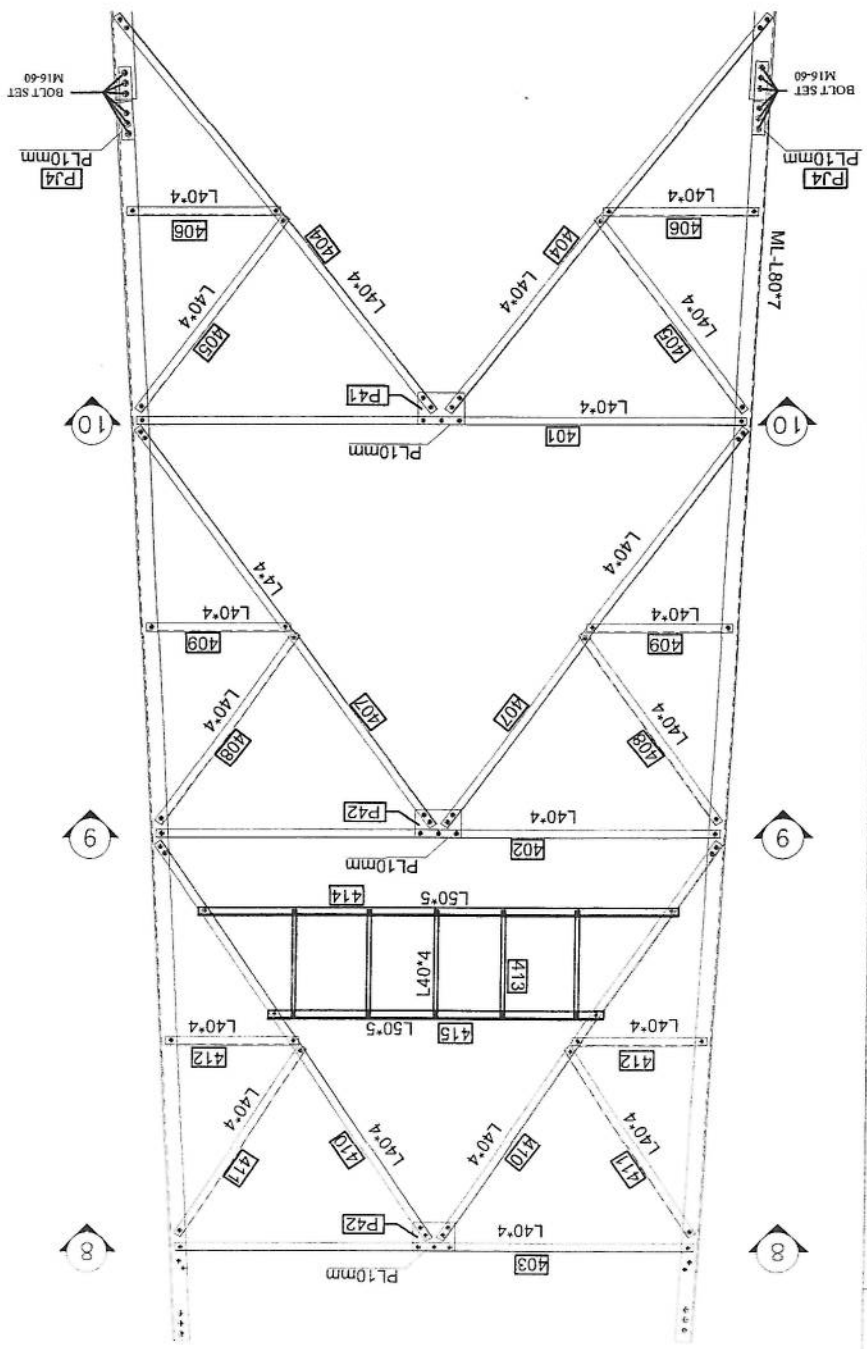
PROFILES GRADE LEGEND

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

Handwritten signature

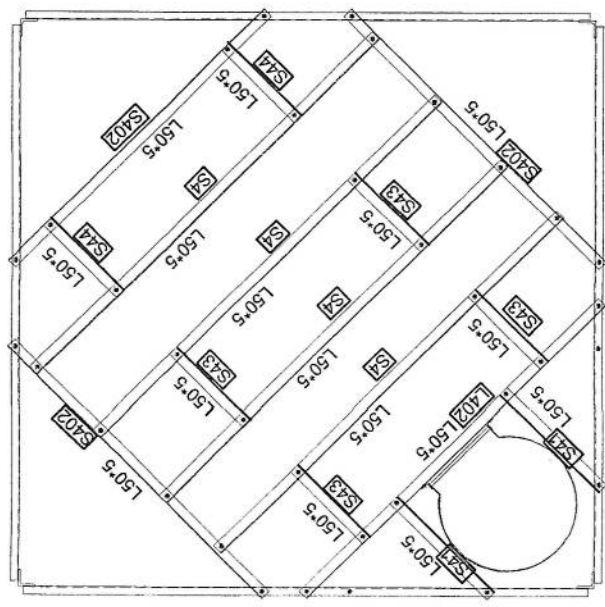
SUTAN MYROOM
ENGINEERING SERVICES

BLOCK 4

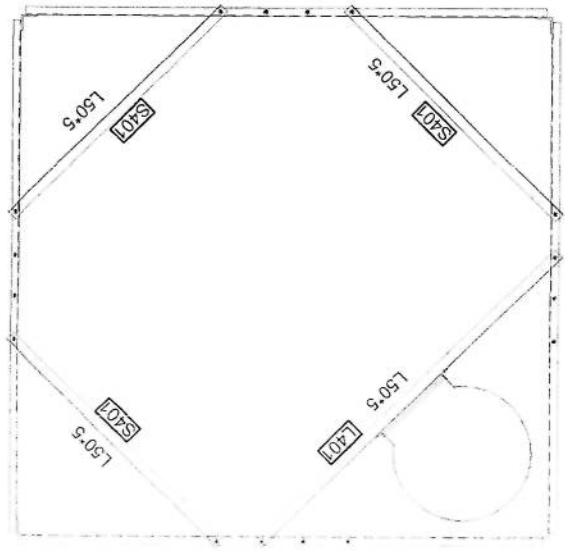


NOTE:
1. ALL BOLT SET IN BRACING ARE M12-40
2. ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
3. ALL PLATE AND JOINT PLATE ARE PLATE 10mm

SECTION 9-9



SECTION 8-8

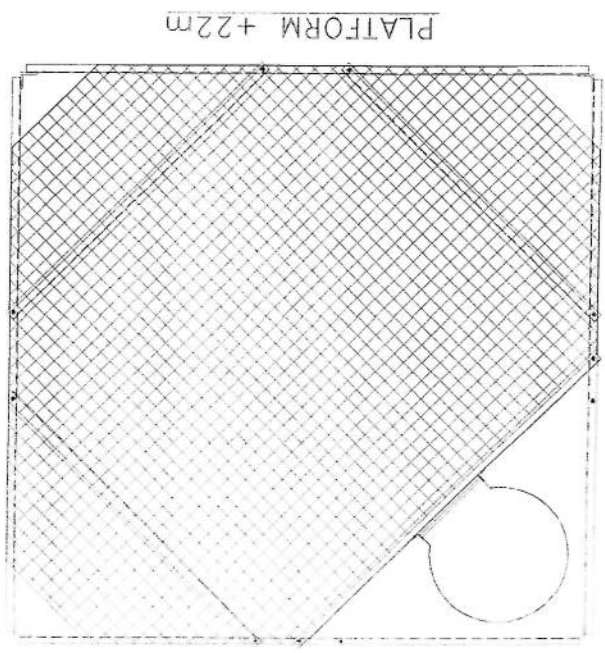


A B C D E F G

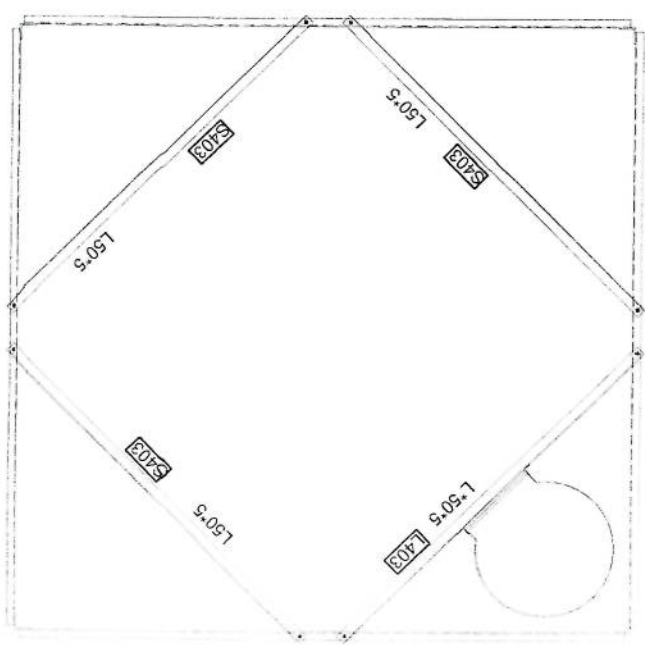
Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL4	M4	L80X7	6.005	52.0171115	4	208.068446
BL4	401	L40X4	2.955	7.2743235	4	29.097294
BL4	402	L40X4	2.75	6.769675	4	27.0787
BL4	403	L40X4	2.534	6.2379478	4	24.9517912
BL4	404	L40X4	2.444	6.0163948	8	48.1311584
BL4	405	L40X4	1.185	2.9171145	8	23.336916
BL4	406	L40X4	0.71	1.747807	8	13.982456
BL4	407	L40X4	2.38	5.85846	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	2.7866444	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	24.4344484
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	1.387	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	M4	L70X6	0.42	2.728706	4	10.918824
BL4	P4	PL420*80*10	1	2.7192	8	21.7536
BL4	Bolt Set	M16-60	1	0.2674	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

SCALE:	FORMAT: A1	DESIGN STAGE: DETAIL DESIGN	REV: 0	1 OF 20
DARAIKAZAN DWG NO:				
DESIGN AND MANUFACTURE				
DARAIKAZAN KALAN CO.				
CONTRACTOR				
SUTAN MYSOOM				
FOR TOWER TYPE 40-160-EPA10(AK1-40m)				
PANEL 4				
APPROVAL DRAWING				
AFGHAN TELECOM				
CLIENT:				
REV	DESCRIPTION	DESIGN	CHECK	APP
1	FIRST ISSUE	AKH	AKH	AKH
2				
3				
4				
5				

[Handwritten signature and stamp]



SECTION 10-10

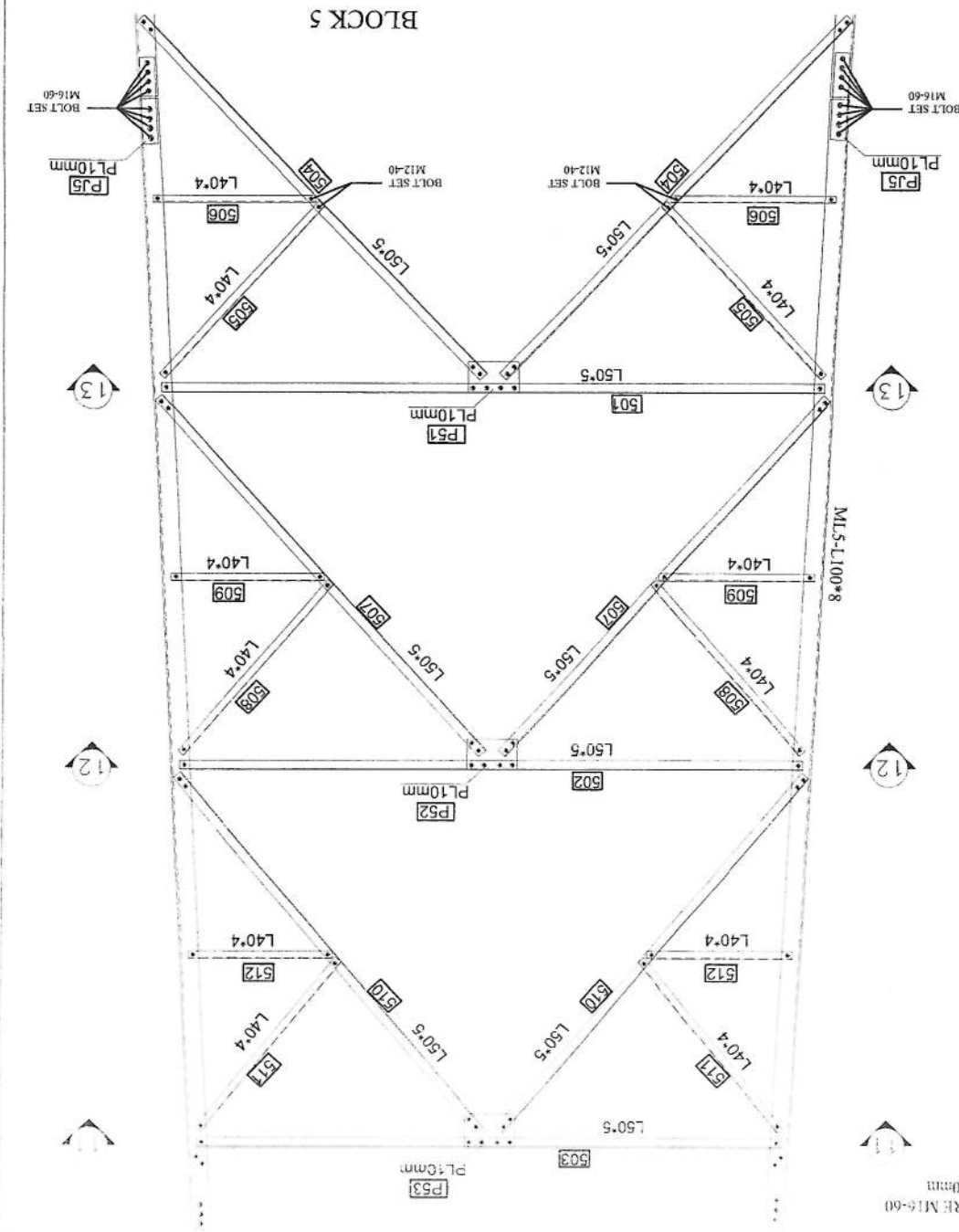


A B C D E F G

Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
B15	M15	L 100X8	6.005	74.592909	4	298.371636
B15	S01	L50X5	3.588	13.7847372	4	55.1389488
B15	S02	L50X5	3.382	12.9933058	4	51.9732232
B15	S03	L50X5	3.177	12.2057163	4	48.8228652
B15	S04	L50X5	2.648	10.1733512	8	81.3868096
B15	S05	L40X4	1.24	3.052508	8	24.420064
B15	S06	L40X4	0.818	2.0136706	8	16.1093648
B15	S07	L50X5	2.577	9.9005763	8	79.2046104
B15	S08	L40X4	1.208	2.9737336	8	23.7898688
B15	S09	L40X4	0.771	1.8979707	8	15.1837656
B15	S10	L50X5	2.514	9.6585366	8	77.2682928
B15	S11	L40X4	1.177	2.8974209	8	23.1793672
B15	S12	L40X4	0.724	1.7822708	8	14.2581664
B15	L503	L 60X5	1.98	9.197694	3	27.593802
B15	S 503	L 60X5	1.98	9.197694	9	82.779246
B15	P51	PL260*180*10	1	3.7801	4	15.1204
B15	P52	PL260*180*10	1	3.7801	4	15.1204
B15	P 53	PL260*180*10	1	3.7801	4	15.1204
B15	Bolt Set	M16-60	1	0.16274	64	10.41536
B15	Bolt Set	M12-40	1	0.06798	288	19.57824
B15	M15	L80X7	0.42	3.638166	4	14.552664
B15	P15	PL420*90*10	1	3.0591	8	24.4728
B15	Washer		1	0.008446	350	2.9561
				TOTAL WEIGHT		1036.82 Kg

SCALE:	DATE:	1 OF 20
DESIGN STAGE:	DESIGN NO.:	
DESIGN AND MANUFACTURER:	FOR TOWER TYPE 40-160-EP10(AK1-40m)	
CONTRACTOR:	APPROVAL DRAWING	
CLIENT:	AFGHAN TELECOM	
REV:	DESIGN DRAWN:	
	CHECK:	
	DATE:	

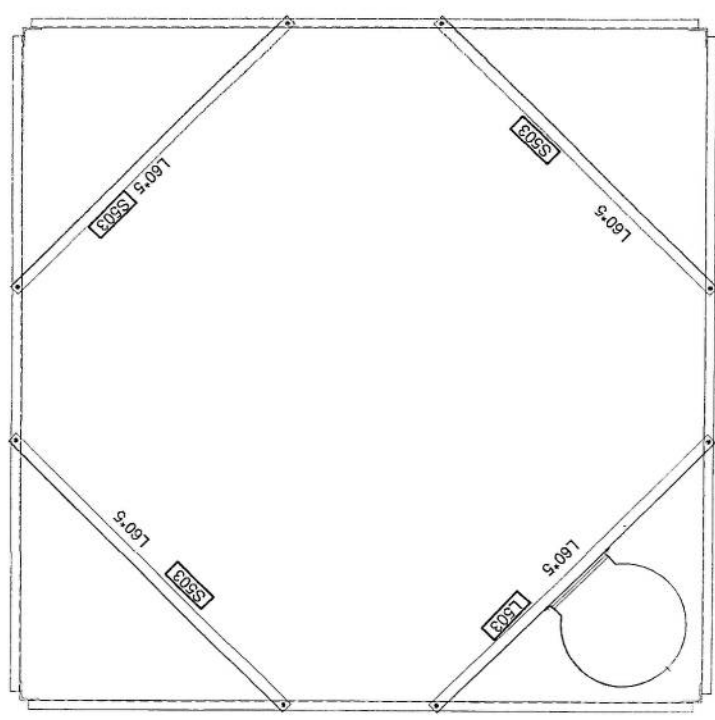
1036.82 Kg



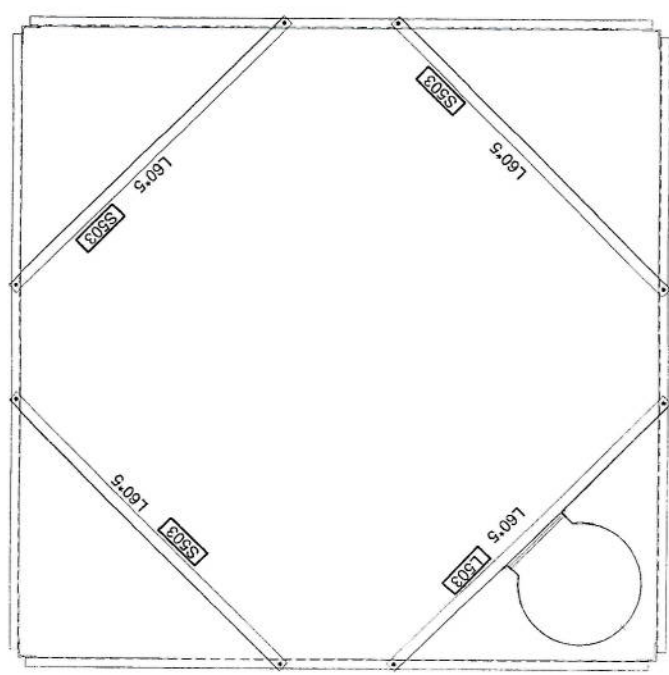
NOTE:
1. ALL BOLT SET IN BRACING ARE M12-40
2. ALL BOLT SET IN MAIN LEGS AND JOINT ARE M16-60
3. ALL PLATE AND JOINT PLATE ARE PLATE 10mm

3
T
E
D
C
B
A

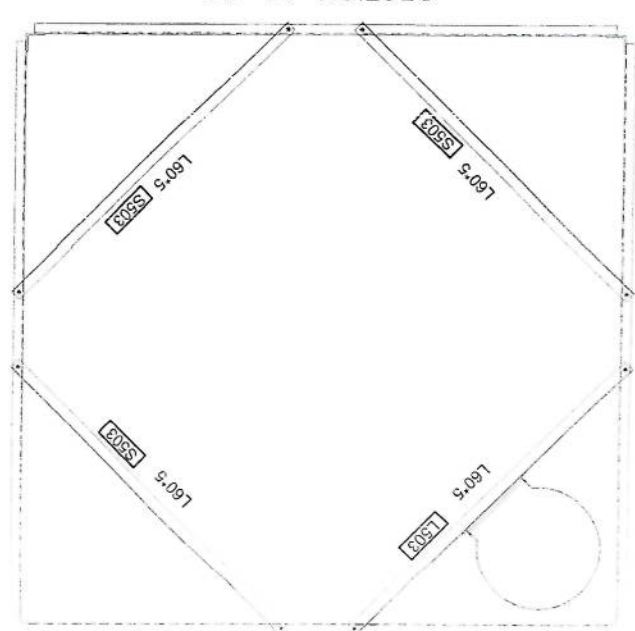
SECTION 13-13



SECTION 12-12



SECTION 11-11



SCALE: 1/4" = 1'-0"		DATE: 10/10/20	
REVISION: 1		SHEET: 1 OF 20	
DESIGN: A1 DRAWING NO: DAK454241 PROJECT: DAK454241 CLIENT: AFGHAN TELECOM TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) CONTRACTOR: SULTAN MOSSOM DESIGN AND MANUFACTURER: SULTAN MOSSOM DAK454241 RALAN CO. SULTAN MOSSOM			
CLIENT:	AFGHAN TELECOM	DESIGN:	SS03
REV:	1	CHECK:	SS03
DATE:	10/10/20	APPV:	SS03

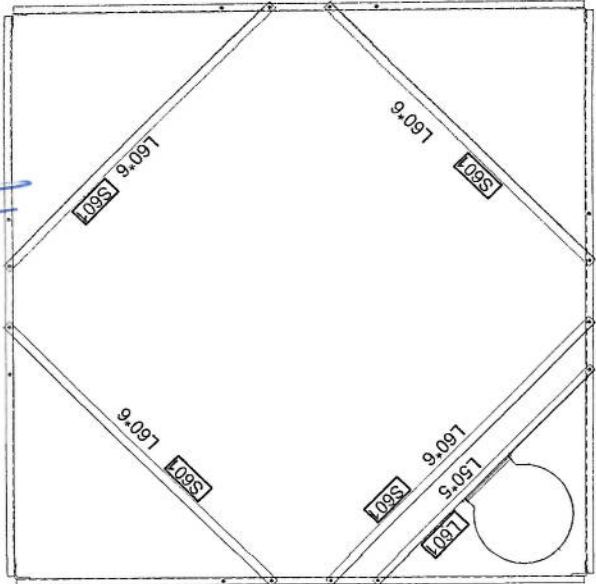
SULTAN MOSSOM SERVICES

SCALE: 1:1		DATE: 10/10/2010	
DESIGN STAGE: DETAIL DESIGN		PROJECT NO: 40-160-EPA10(AK1-40m)	
CONTRACTOR: SUTAN MYROOM		CLIENT: AFGHAN TELECOM	
DESIGN AND MANUFACTURER: DARABAZAY KALAN CO.		APPROVAL DRAWING: FOR TOWER TYPE 40-160-EPA10(AK1-40m)	
PANEL 4		TITLE: APPROVAL DRAWING	
REV: 0		DATE: 10/10/2010	
DESIGN	CHECK	APPR	VER
DATE	DATE	DATE	DATE

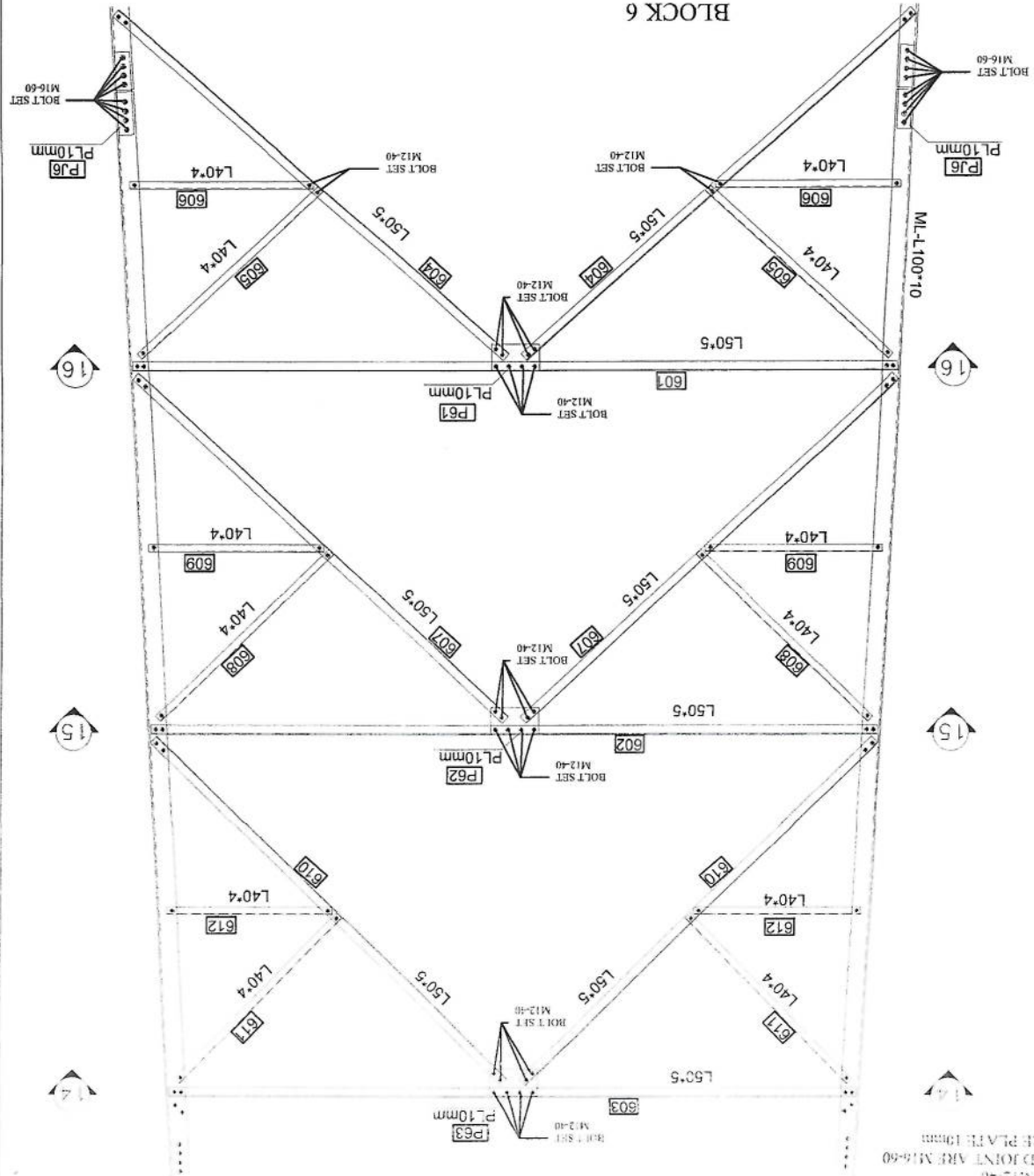
SUTAN MYROOM
ENGINEERING SERVICES

[Handwritten signature]

SECTION 14-14

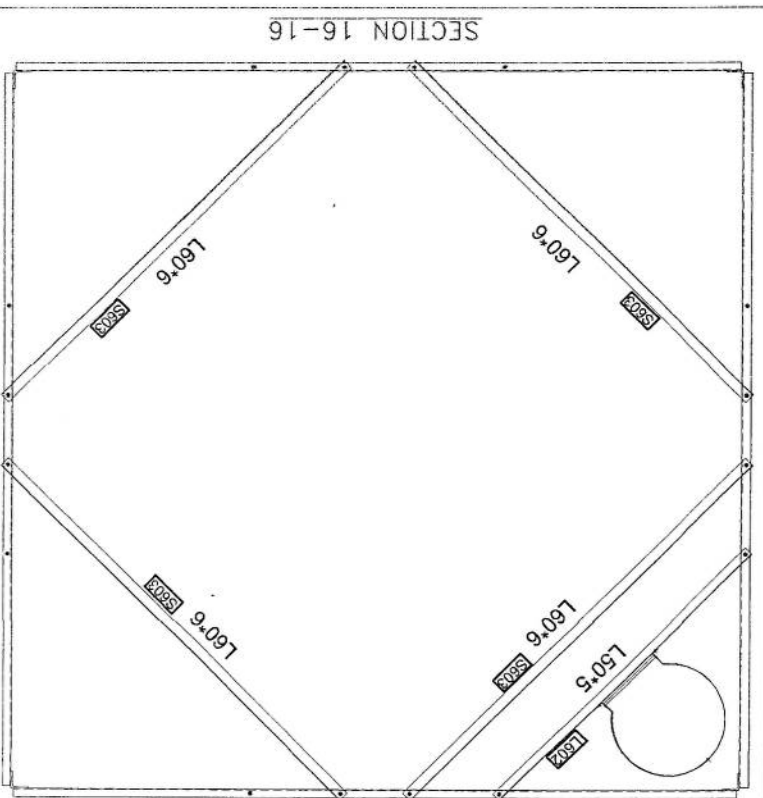
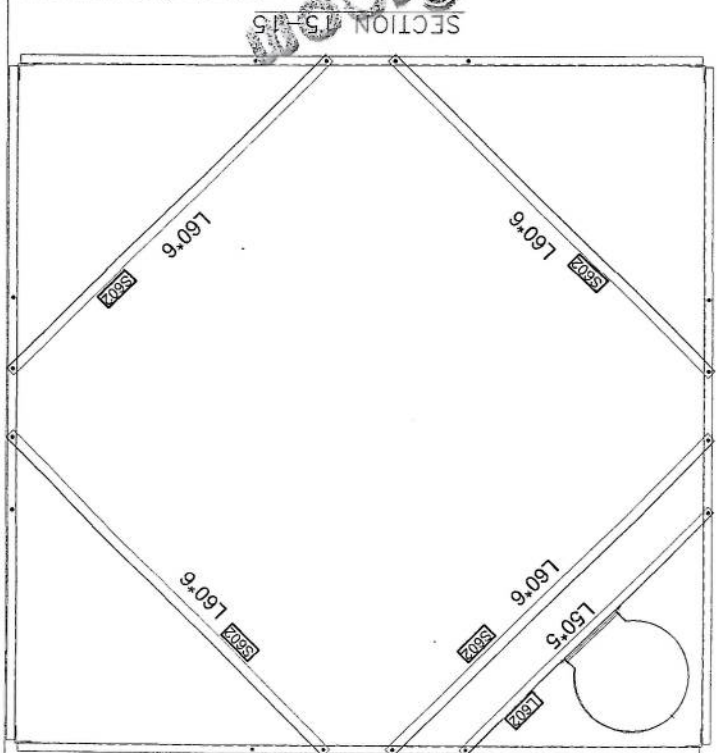


BLOCK 6



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

OCCASION: DSG NO:		REV: 0	SH: 1	OF: 20
DESIGN STAGE: DETAIL DESIGN		DATE: 10/10/2019		
DESIGN AND MANUFACTURER:		DAKASAZAN KALAN CO.		
CONTRACTOR:		SUTRAN MANSOOR		
TITLE:		FOR TOWER TYPE 40-160-EPA10(AK1-40m)		
CLIENT:		AFGHAN TELECOM		
NO	REV	DATE	BY	CHECK
1	1	10/10/2019	ADV	---

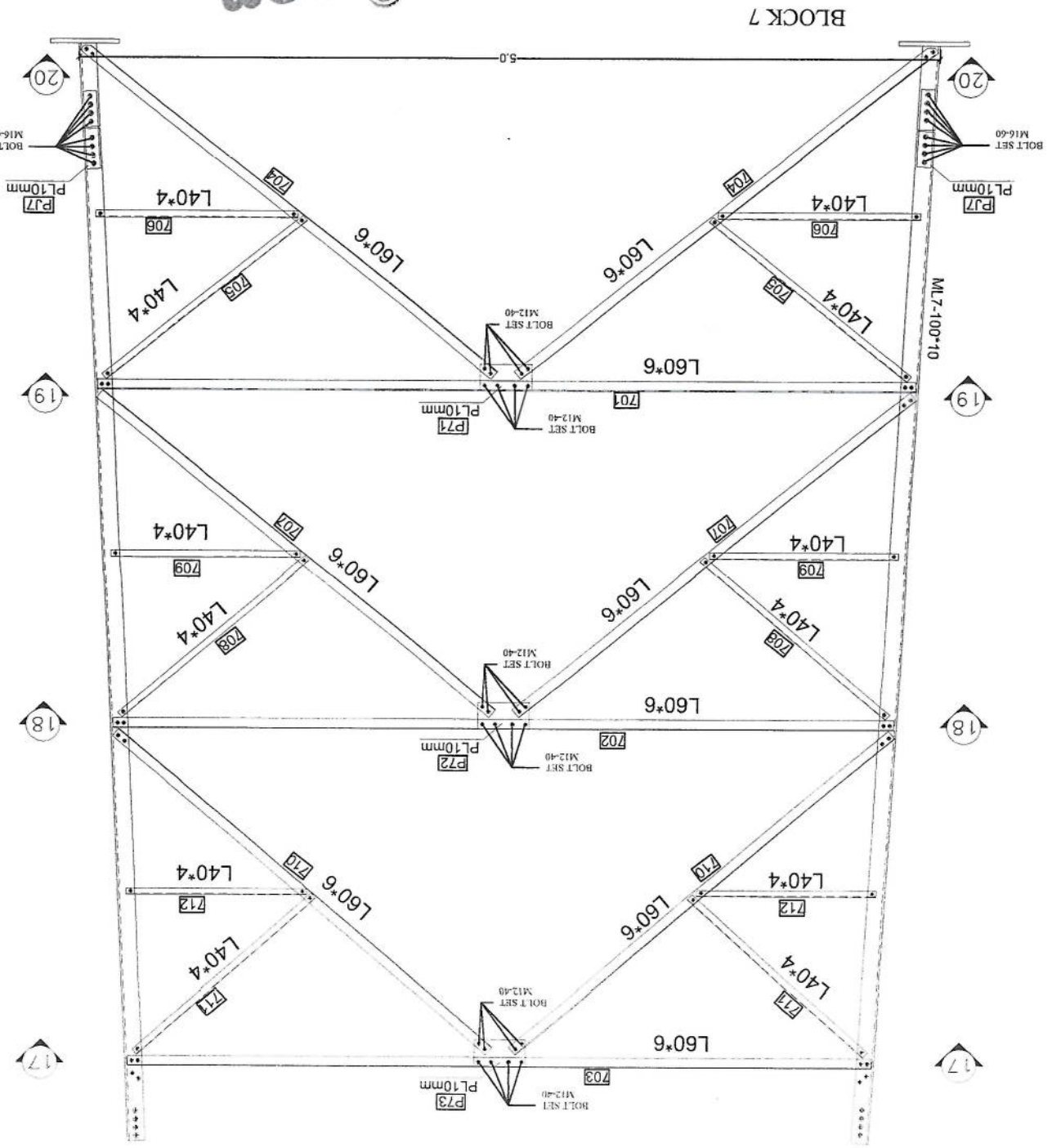


Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BL6	ML 6	L100X10	6.005	92.282438	4	369.129752
BL6	601	L50X5	4.205	16.1551895	4	64.620758
BL6	602	L50X5	3.999	15.3637581	4	61.4550324
BL6	603	L50X5	3.793	14.5723267	4	58.2893068
BL6	604	L50X5	2.856	10.9724664	8	87.7797312
BL6	605	L40X4	1.342	3.3036014	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	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
				1267.39 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 M16-60

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



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

Handwritten signature

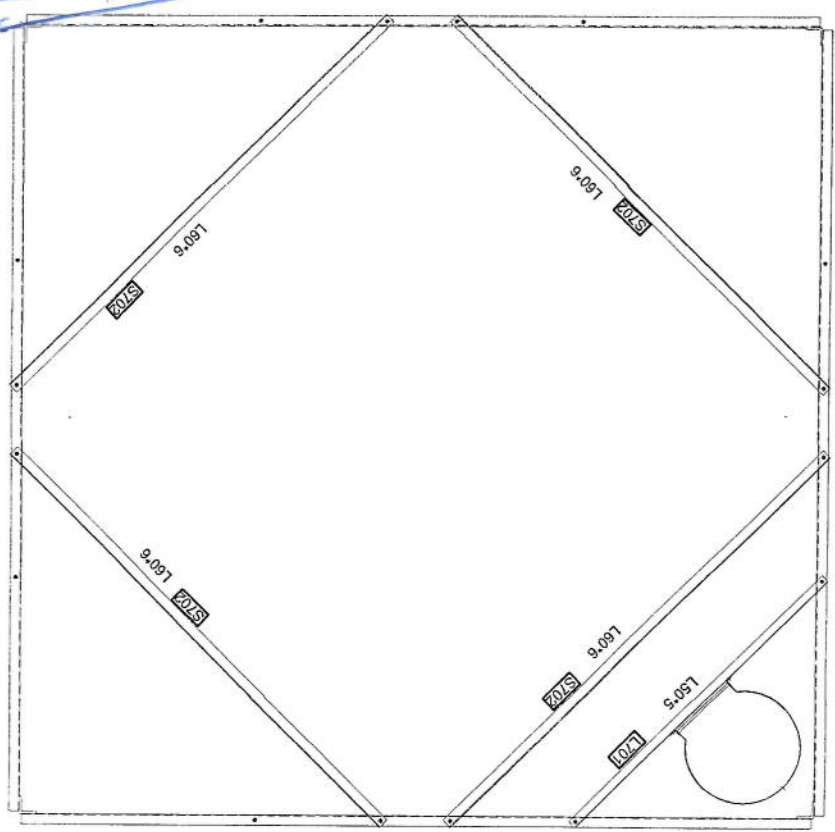
SUTAN MYSOOM
 LOGISTICS & ENGINEERING SERVICES

REV	DESCRIPTION	DATE
1	First Issue	
2		
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7		
8		
9		
10		

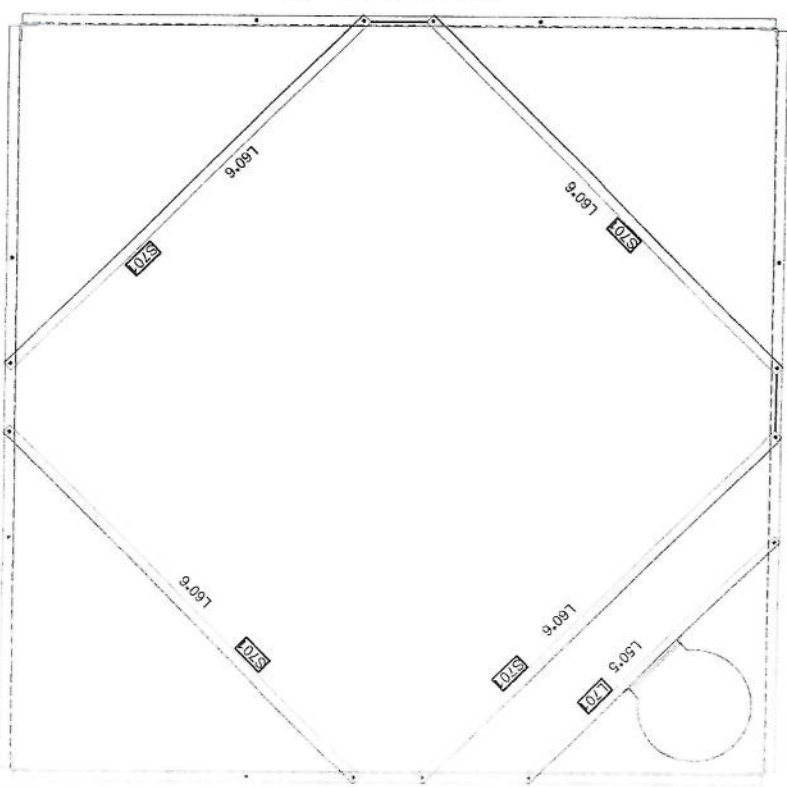
CLIENT: AFGHAN TELECOM
 TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m)
 CONTRACTOR: SUTAN MYSOOM
 DESIGN AND MANUFACTURER: KALAN CO.
 SCALE: 1:100
 DRAWING NO: 40-160-EPA10(AK1-40m)
 SHEET NO: 1 OF 20

G F F D C B A

SECTION 18-18



SECTION 17-17



Handwritten signature and initials in blue ink.

SCALE: 1/4" = 1'-0"	
DATE: 10/20/20	REV: 0
PROJECT: DAKHISTAN DMS NO. 1	
DESIGN STAGE: DESIGN	
DESIGN AND MANUFACTURE	
CONTRACTOR: SUTAN MANSOOR	
FOR TOWER TYPE 40-160-TPA10(AK1-40m)	
APPROVAL DRAWING	
CLIENT: AFGHAN TELECOM	
REV	DESCRIPTION
1	FOR TOWER TYPE 40-160-TPA10(AK1-40m)
2	FOR TOWER TYPE 40-160-TPA10(AK1-40m)
3	FOR TOWER TYPE 40-160-TPA10(AK1-40m)
4	FOR TOWER TYPE 40-160-TPA10(AK1-40m)
5	FOR TOWER TYPE 40-160-TPA10(AK1-40m)

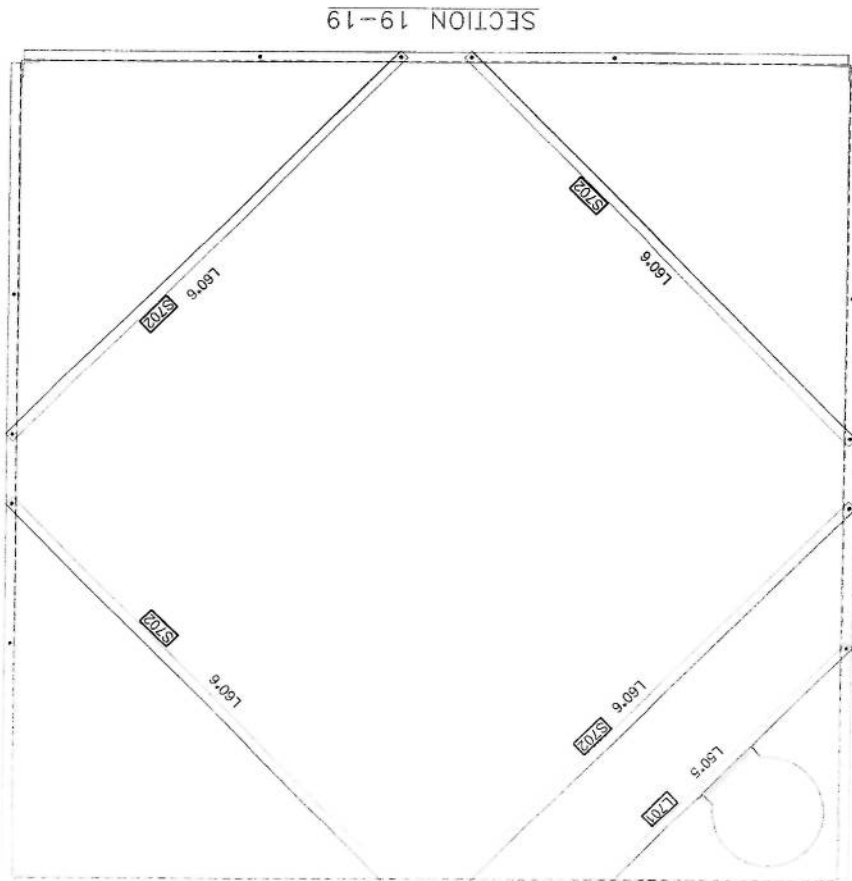
SUTAN MANSOOR
LOGISTICS & ENGINEERING SERVICES

DATE: 1 OF 20	REV: SH / TOTAL
PROJECT: AT DESIGN STAGE: DESIGN CONTRACTOR: SUTAN MYSOOM DESIGN AND MANUFACTURE: SUTAN MYSOOM APPROVAL DRAWING: FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4 TITLE: LOGISTICS & ENGINEERING SERVICE EIRHAN TELFOM DRAWN: ACH CHECK: ACH DATE:	

[Handwritten signature]

SUTAN MYSOOM
LOGISTICS & ENGINEERING SERVICE EIRHAN TELFOM

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	21.115392
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	P 72	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	ML7	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

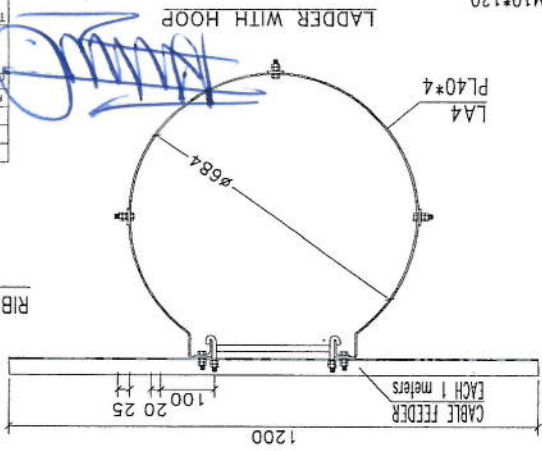
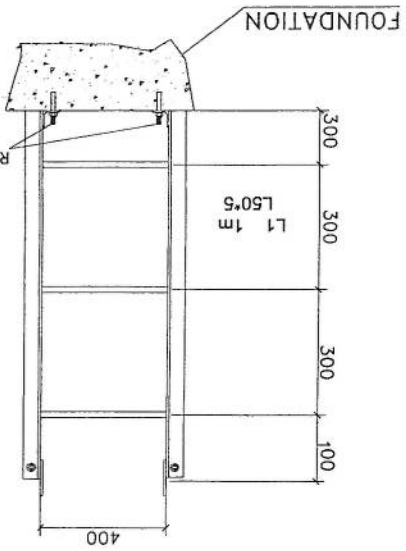


REV.	SH.	TOTAL
0	1	OF: 20

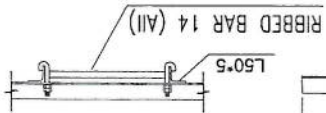
SCALE: 1:100
 DAKATSAZAN DWG. NO.:
 DESIGN STAGE: DETAIL DESIGN
 PROJECT: DAKATSAZAN
 KALAN CO.
 DESIGN AND MANUFACTURER
 LOGISTICS & ENGINEERING SERVICES
 SUTUN MASYOON
 APPROVAL DRAWING
 PANEL 4
 FOR TOWER TYPE 40-160-EPA10(AK1-40m)
 AFGHAN TELECOM

REV.	DESCRIPTION	DATE	APP.	CHK.	DES.
2					

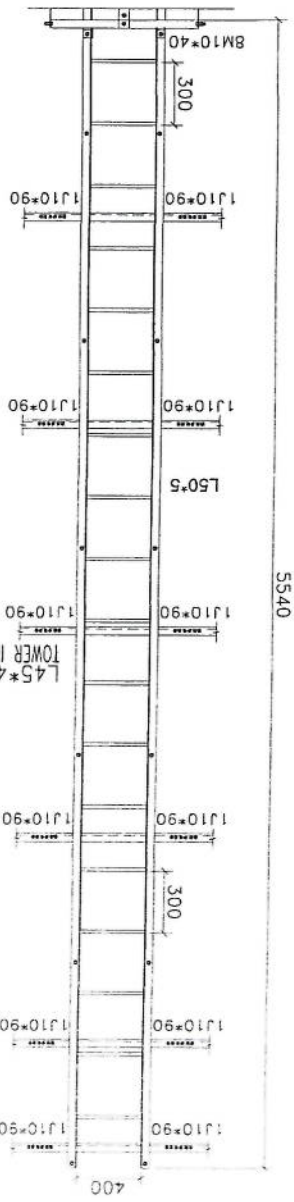
INSTALL BOTTOM PART OF LADDERS



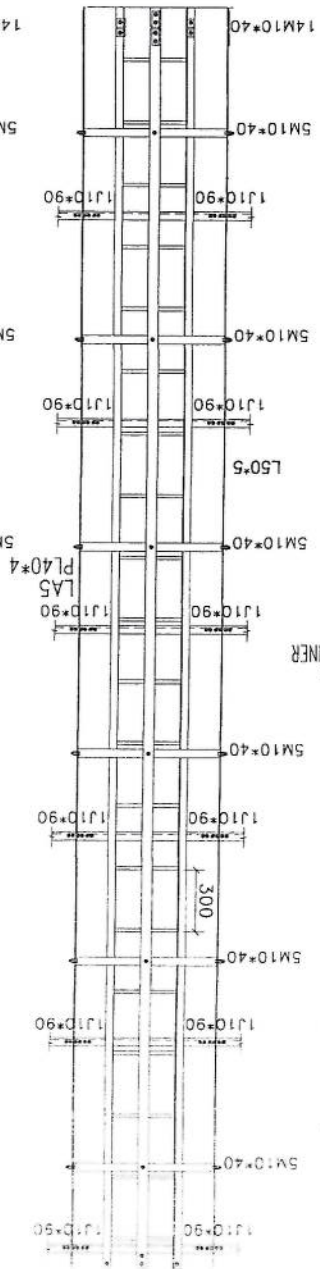
LADDER WITHOUT HOOP



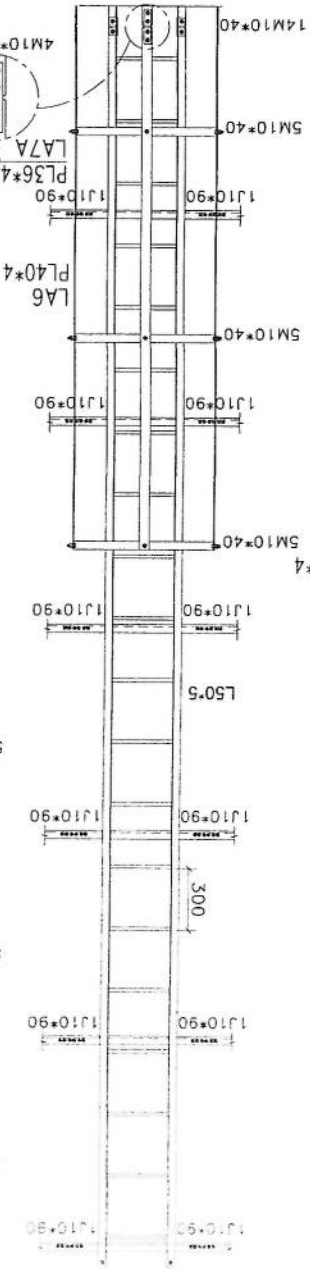
FOR PANEL "1"



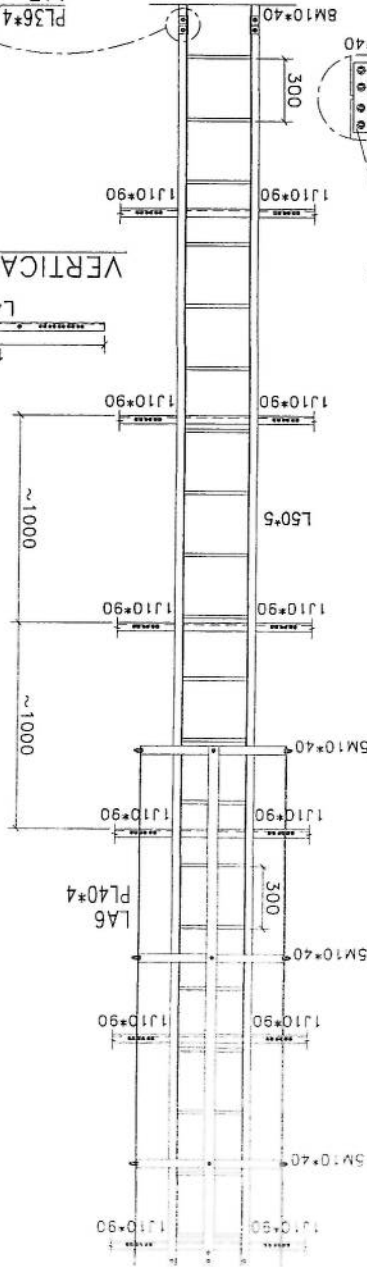
FOR OTHER PANELS



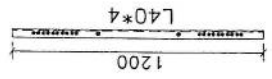
ONLY FOR PANEL "5"



FOR PANEL "10"



VERTICAL FEEDER



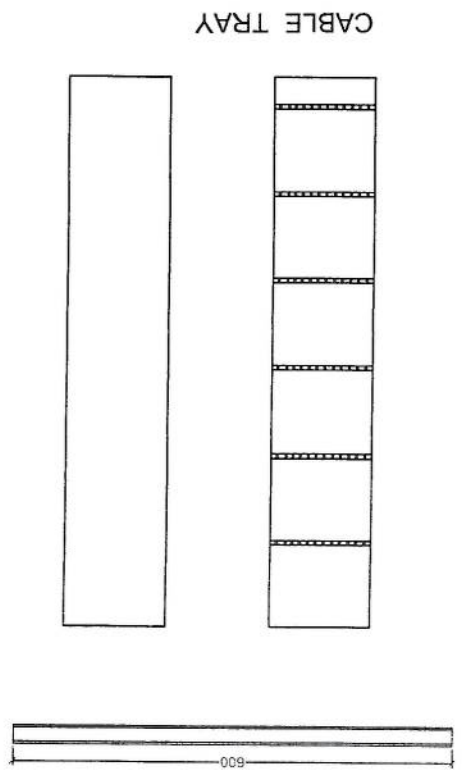
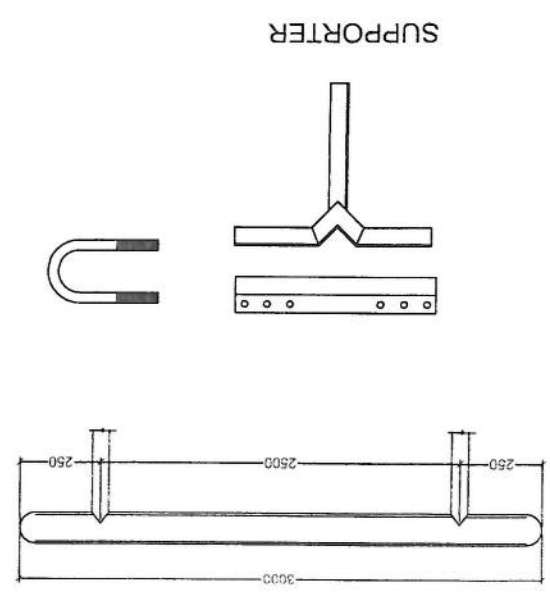
G
F
E
D
C
B
A

REV: 0	1 OF 20	
DAKALSAZAN DWG NO:		
SCALE: 1:1	DESIGN STAGE: DETAIL DESIGN	
FORMAT: A1		
DESIGN AND MANUFACTURER: DAKALSAZAN KALAN CO.		
CONTRACTOR: SUTAN MYROOM		
TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4		
CLIENT: AFGHAN TELCOM		
REV	DESCRIPTION	DATE
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2	DESIGN	
3	CHECK	
4	APPROVE	
5	DATE	

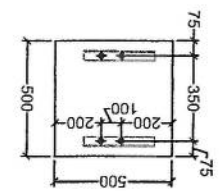
SUTAN MYROOM
ENGINEERING SERVICES

[Handwritten Signature]

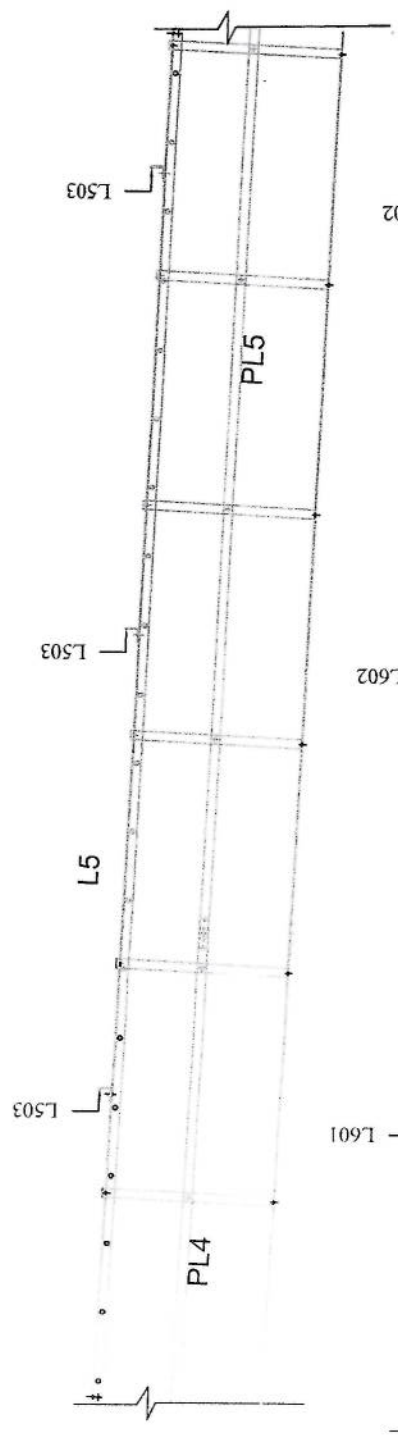
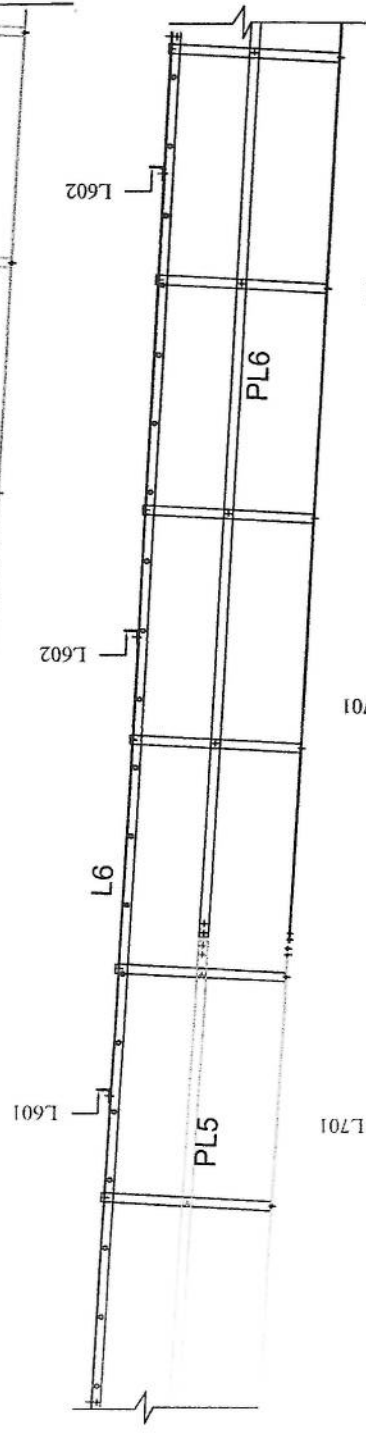
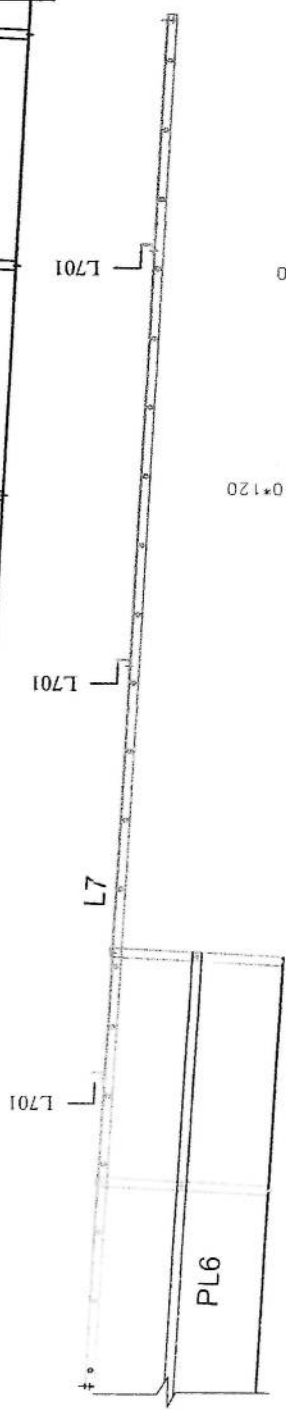
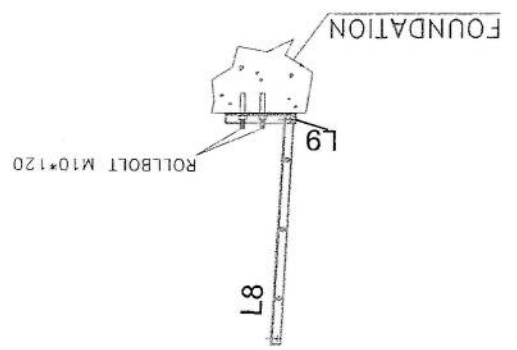
Sr.No	Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
1	SUPPORT		(60X3)MM PIPE	3	13.0398	3	39.1194
2	SUPPORT		(60X3)MM PIPE	0.6	2.60796	2	5.21592
3	ANGLE	SL 1	L60X6	0.6	3.31866	3	9.95598
4	ANGLE	ANG	L60X6	0.45	2.488995	20	49.7799
5	ANGLE	ANG	L60X6	0.5	2.76555	5	13.82775
6	PIPE	PIPE	(27X2.6)MM PIPE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



G
F
E
D
C
B
A



ROLLBOLT M10*120



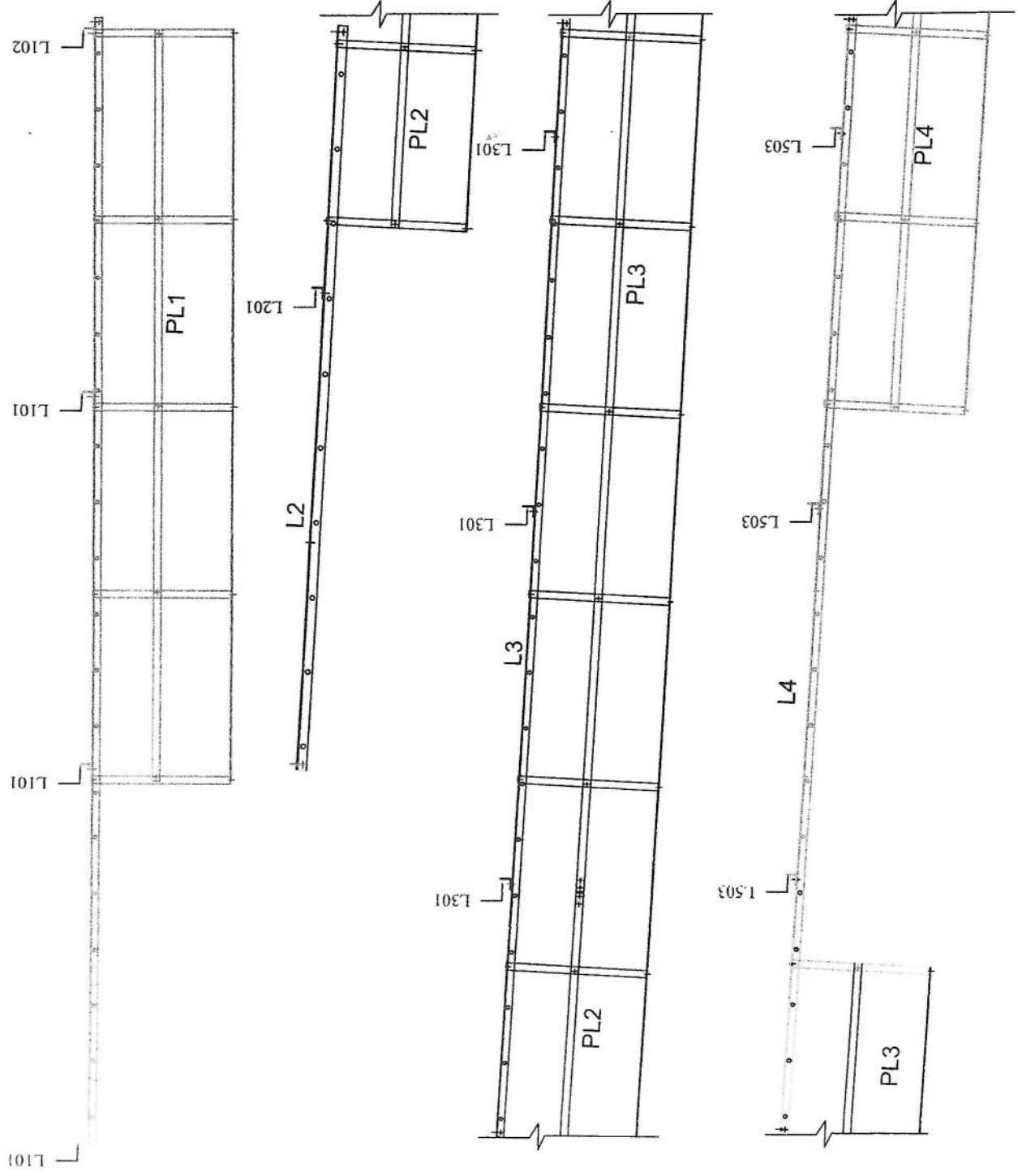
SUTAN MYSOON
CONSULTING & ENGINEERING SERVICES

SCALE: 1:100		DESIGN STAGE: DETAIL DESIGN	
DRAFTER: A1		CHECKED: A1	
DESIGN AND MANUFACTURER: DAKAISAZAN DMS NO.		KATIAN CO.	
CONTRACTOR: SUTAN MYSOON		FOR TOWER TYPE 40-160-EPA10(AK1-40m)	
APPROVAL DRAWING: PANEL 4		AFGHAN TELECOM	
DATE	APP.	CHK.	DES.

G F D C B A

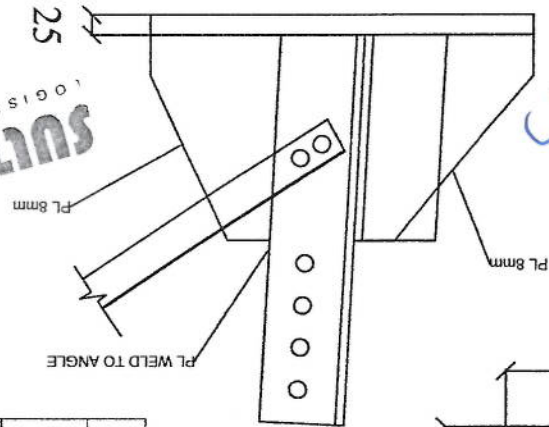
SCALE: 1:1		DATE: 10/10/20	
DRAWING NO. 40-160-EPA10(AK1-40m)		REV: 1 SH. / TOTAL	
DESIGN STAGE: DETAIL DESIGN		FORMAT: A1	
 SK KALAN CO. DAKALSAZAY		 OPC Engineering Co.	
DESIGN AND MANUFACTURER			
 SULTAN MYSOOM CONTRACTOR			
TITLE: APPROVAL DRAWING FOR TOWER TYPE 40-160-EPA10(AK1-40m) PANEL 4			
CLIENT: AFGHAN TELECOM			
REV	DESCRIPTION	DATE	BY
1	FIRST ISSUE		
2			

SULTAN MYSOOM
 LOGISTICS & ENGINEERING SERVICES

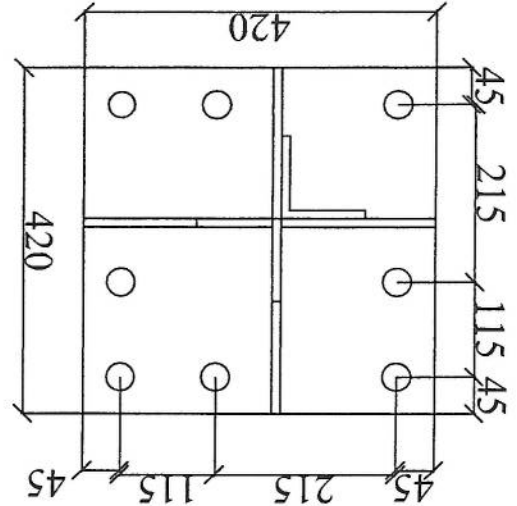


SCALE: 1 OF: 20	
REV: 0	SH. / TOTAL
DAKASAZAN DWG NO: 1	
SCALE: 1	
FORMAT: A1	
DESIGN STAGE: DETAIL DESIGN	
DESIGN AND MANUFACTURER: DAKASAZAN KALAY CO.	
CONTRACTOR: SUTAN MANSOOR	
FOR TOWER TYPE 40-160-EPA10(AK1-40m)	
PANEL 4	
APPROVAL DRAWING	
AFGHAN TELECOM	
CLIENT: SUTAN MANSOOR	
PROJECT NO: 1	
DATE: 01/05/05	
DRAWN: 1	
CHECK: 1	
APPR: 1	
VER: 1	
DATE: 01/05/05	

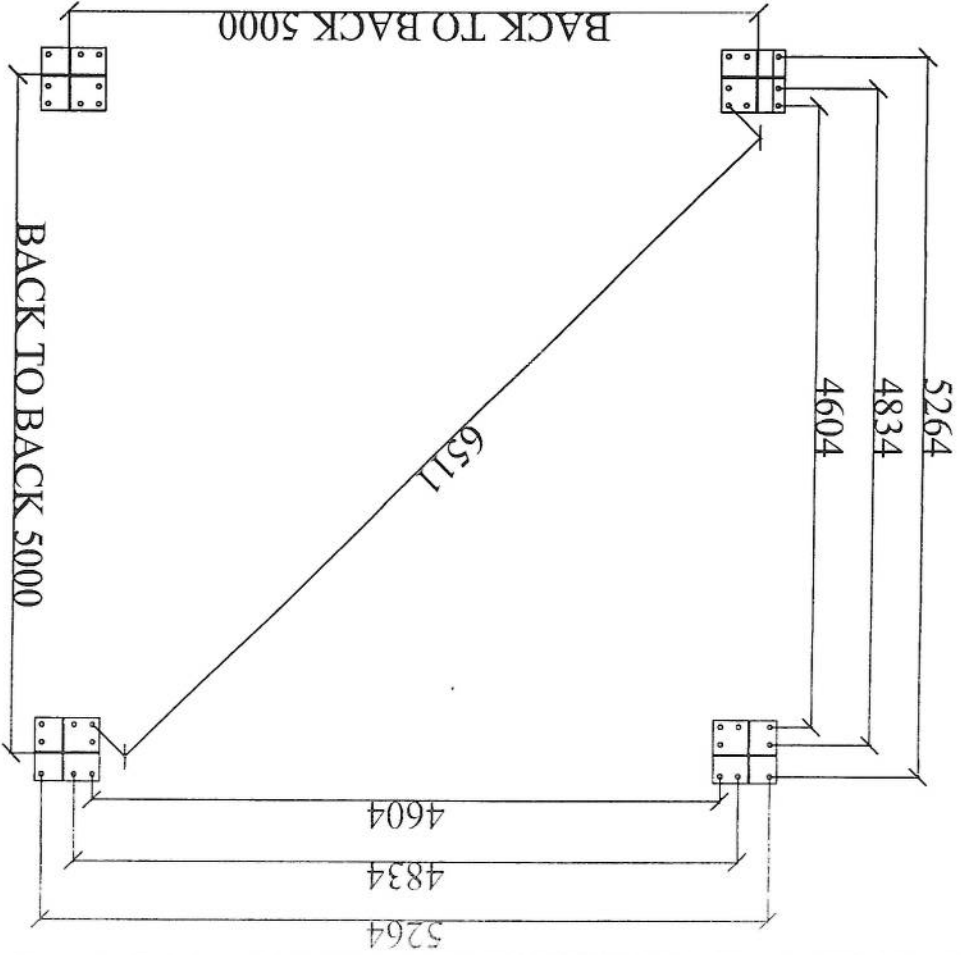
BASE PLATE



BASE PLATE



SECTION OF BASE PLATE



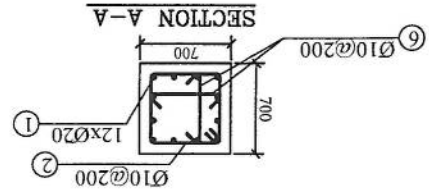
Block	Mark	Description	Length	WEIGHT	Qty	Total Weight
BASE	BS	PL 420X420X25	1	35.6586	4	142.6344
BASE	STF	PL 250*189*8	1	3.0591	2	6.1182
BASE	STF	PL 250*130*8	1	2.1012	2	4.2024
BASE	ANGLE	L100X10	0.5	7.6838	4	30.7352
BASE	ANGLE	L100X10	0.25	3.8419	4	15.3676
BASE	ANCHOR BO	Ø 30	1.1	6.28815	32	201.2208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

SUTUN M3000
OGİSTİK VE MÜHÜRLEME HİZMETLERİ

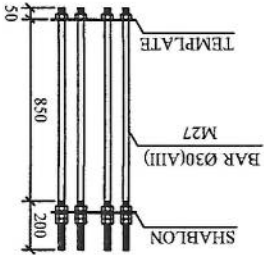
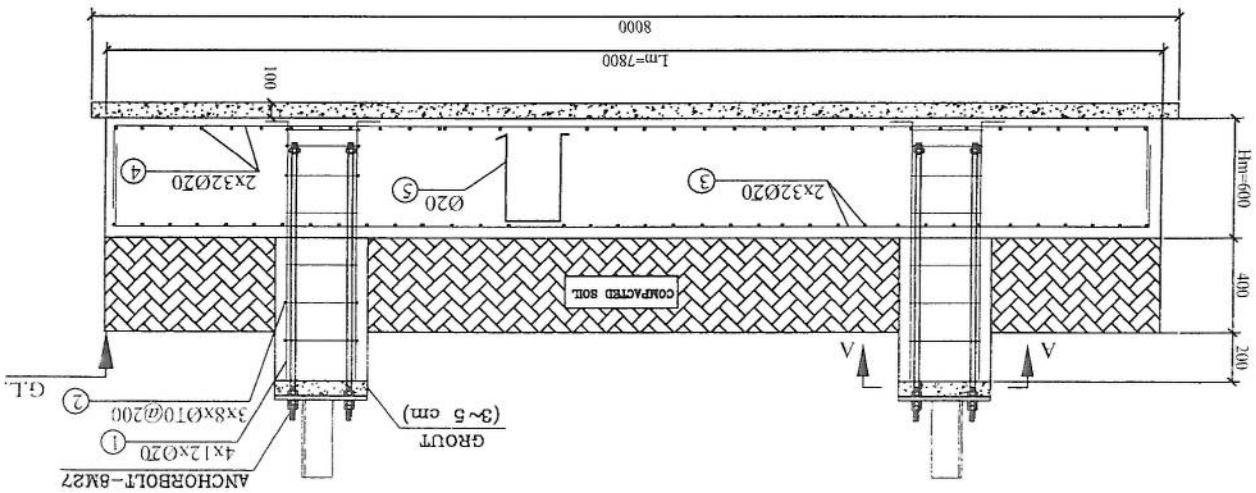
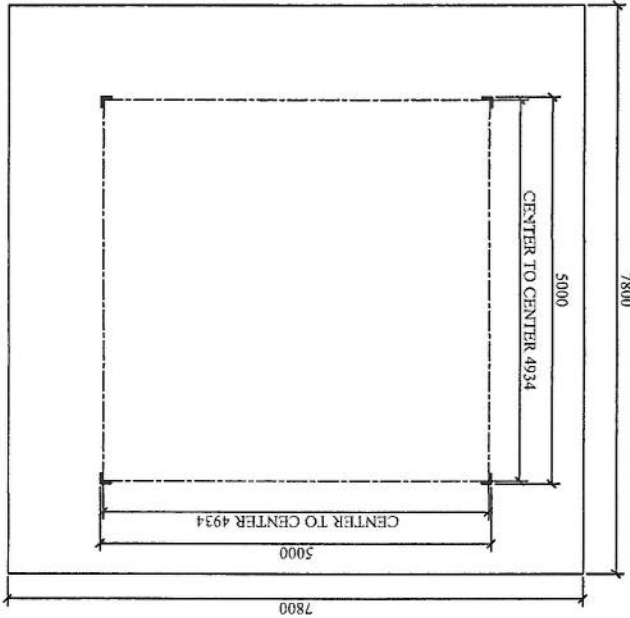
[Handwritten Signature]

SOIL CHARAC.: ALLOWABLE BEARING=1.0~2.0 KG/CM2 NORMAL									
BAR BENDING SCHEDULE (TYPE AIII - FY=4000kg/cm ²)									
TYPE 7									
POS.	BENDING DIAGRAM	#	NO.	UNIT	LENGTH	UNIT	WEIGHT	UNIT	TOTAL WEIGHT
1		105	20	12*4	1.35	m	64.8	kg/m	160
2		550	10	6*4	2.40	m	57.6	kg/m	36
3		765	20	32*2	8.25	m	528	kg/m	1304
4		765	20	32*2	8.25	m	528	kg/m	1304
5		30	20	58	1.80	m	104.4	kg/m	258
6		65	10	48	0.75	m	36	kg/m	22
CON. VOL. = 37.7m ³ TOTAL WEIGHT (kg) : 3084									

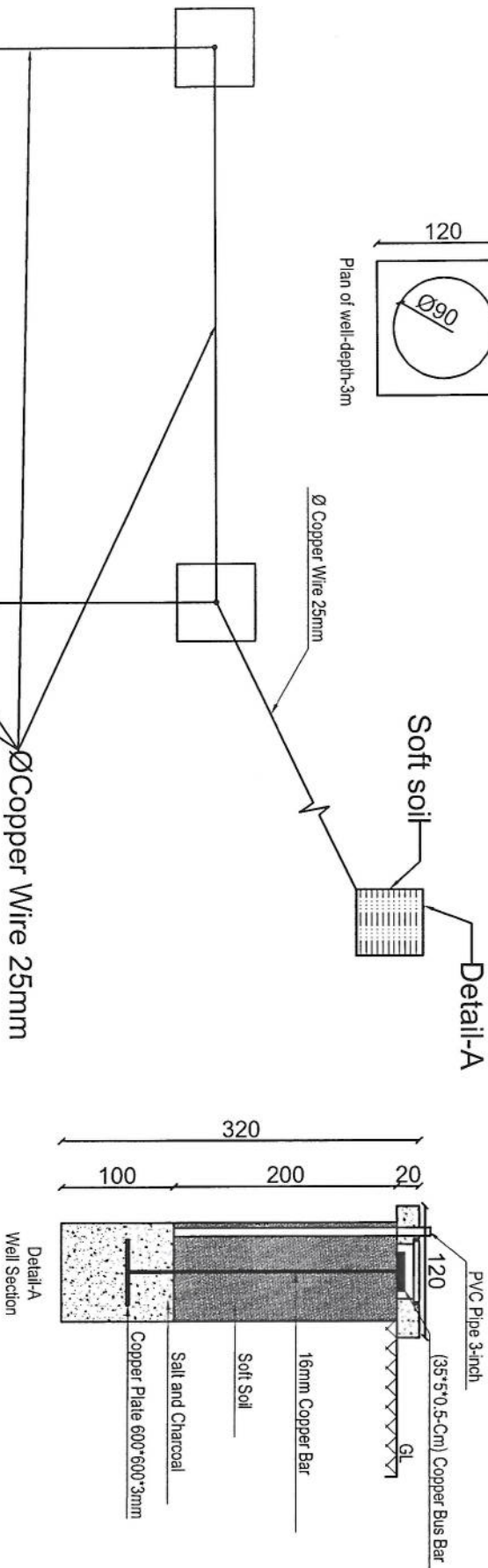
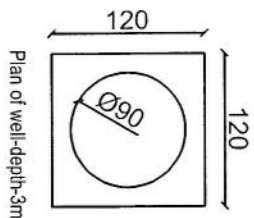
NOTE :
1- ALL DIMENSION ARE IN MM.
EXCEPTION AS NOTED.
2- F_{ck}=210 Kg/Cm² AFTER 28 DAYS ON CYLINDER SPEC.
3- GRADE OF BARS:
AIII FOR D<12mm
AIII FOR D>12mm
4- COVER ON BARS IS 75 mm
5- THICKNESS OF LEAN CONCRETE 10cm.



FOUNDATION PLAN



سیستم آنتن برای تاور 40 متره
GFS



4#16mm Copper Rod under the Ground Length 100cm

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

Grounding system- well plan & section

SCALE: 1:75

10 REF: A110

REVISION RECORDS	
REVISION NO	DESCRIPTION
1	تصحیح
2	تصحیح

LEGEND:

Ø90

PROJECT TITLE / NO:

GSM SITES

طراحی و نصب سیستم

DRAWING TITLE:

40m Tower Grounding System

DRAWN BY:

CIVIL TEAM

CHECKED BY:

APPROVED BY:

SCALE: 1:75

ACTUAL DATE: 22/04/2023

ISSUE DATE: 22/04/2023

OWNER: AFGHAN TELECOM

طراحی و نصب سیستم

DRG NO: 10

طراحی و نصب سیستم

طراحی و نصب سیستم

طراحی و نصب سیستم

طراحی و نصب سیستم

طراحی و نصب سیستم

طراحی و نصب سیستم

1	Site ID (آی دی سایت)	KND080
2	کد پستی منطقه	1
3	GPS coordinates	30.9792034, 66.4145201
4	نام ساحه و منطقه	چونلی یونی
5	نام ولسوالی و ولایت مربوطه	بولسکی، کسهار
6	(نام ساحه که قرار است نصب شود)	
7	مالکیت زمین (شخصی یا دولتی)	شخصی
8	مالک خانه/خانه قابل دسترسی است	بله
9	شماره تماس مالک یا سکنه خانه	0703009892 نعمت الله
10	شخصی/کلی	شخصی
11	مالک خانه یا نصب سایت و شرایط اقیان تیلی هم راضی است	بله
12	موافقه انتقالی ساحه یا مالک خانه صورت گرفت؟	بله
13	نوعیت سایت (سرمایه یا روی زمین)	روی زمین
14	چگونگی ساحه (شهری، روستایی، دوردست) VIP یا	شهری
15	سرمایه که واسطه نقلیه تردد بتواند دارد	بله
16	آیا به سرک جهت تردد واسطه ضرورت است	نه خیر
17	چه مقدار سرک تردد واسطه ضرورت است (به متر)	
18	در صورتیکه کد پستی سایت سرمایه تعمیرات باشد	
19	نوعیت تعمیر (مسکونی/تجاری)	
20	تعداد منازل	
21	ارتفاع تعمیر	
22	راه رسیدن به نام (زمینه بیرونی داخلی)	
23	امکان خانجایی وسایل سرمایه یا افراد و کارگران است؟	
24	امکان خانجایی وسایل سرمایه یا کترینگ است؟	
25	ظاهراً تعمیر قابلیت برداشت سایت را دارد؟	
26	نوعیت سرمایه (رنگی کالکتریکی یا کالری)	
27	مساحت موجود سرمایه (طول و عرض)	
28	تاور مورد نیاز (کد سرمایه کتیلی)	
29	ارتفاع تاور مورد نیاز	
30	ارتفاع مجموعی تاور و تعمیر از سطح زمین منزل	
31	در صورتیکه کد پستی سرمایه یا زمین خانه باشد	۷

Handwritten signatures and notes at the top of the page.

لیست سایت های توسعهی ولایت کندहार مورد تأیید رهبری شرکت افغان تیلیکام

SN	SiteID	LAT	LONG	Province	District	Add	Site Service Type	Site Owner	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
1	KND079	31.6273213	65.0460847	Kandahar	Maiwand	Maiwand Bazar	Coverage/Capacity	AFTel	KND158	1.14km	620 GB	491 EH	CAT
2	KND080	30.9732034	66.4145201	Kandahar	Spin Boldak	Chedoti Pohl	Coverage/Capacity	AFTel	KND020	960m	640 GB	96 EH	CAT
3	KND081	31.613249	65.766235	Kandahar	5th	Arazi Main Office	Coverage/Capacity	AFTel	KND002	600m	270 GB	60 EH	KT
4	KND082	31.6233922	65.8605759	Kandahar	Damand	Ghiabi Qalacha	Coverage/Capacity	AFTel	KND415	2.08km	380 GB	143 EH	CAF

محمد هارون محمدي	محمد اجمل افغان	محمد جان روفي	حكمت الله ستانكزي	محمد عقيقي
واریس كندهار معاونیت عملیات بیسیم	رییس تحقیق بیسیم	آمر قیاسی	آمر RF BSS	RF Optimization

یوهنیل علی احمد سامند

رییس عملیات شرکت افغان تیلی کام