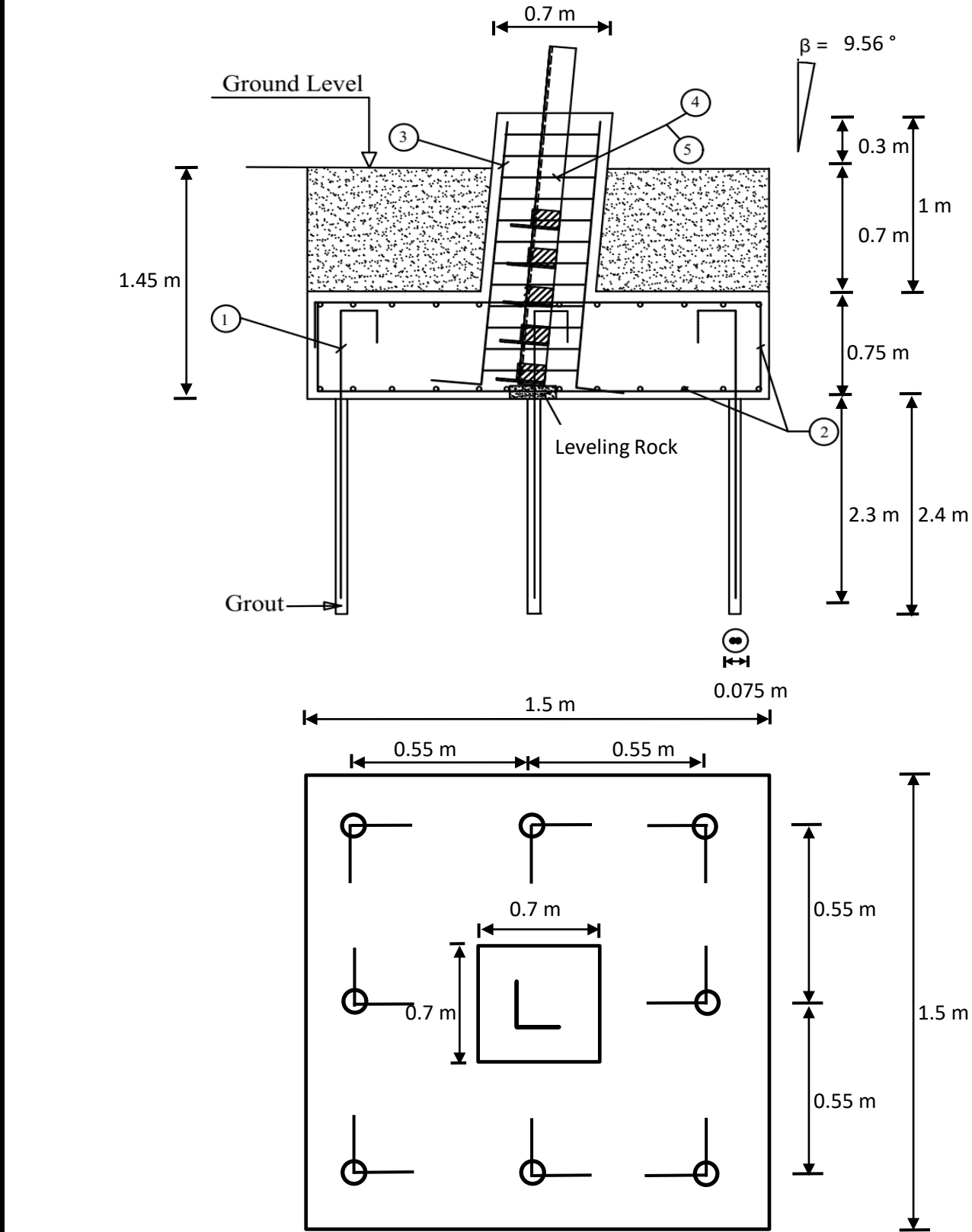


Construction of
220 kV Loop in Loop out Paliastomi- into Ozurgeti Substation and
110 kV Double Circuit (D/C) Overhead Line from Ozurgeti Substation to Zoti HPP

Foundation Drawings of Tower Type "12A-MA"
(for all soil types)

1	2/11/2022	Revised as per Consultant Comments	D. Nezamolmolki	H.O.Bulut	K. Karagoz
0	21/07/22	First Submission	D. Nezamolmolki	H.O.Bulut	K. Karagoz
Rev. No.	Date	Description	Designed by	Checked by	Approved by
Employer Logo and Business Name			Project Name		
 GEORGIAN STATE ELECTROSYSTEM 2 Baratashvili Street Tbilisi 0105 Georgia			Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286		
Engineer logo and business name			Contract Identification Number		
 Fichtner GmbH & Co. KG Sarweystrasse 3 70191 Stuttgart / Germany			KfW/DSI/OHL-TD-Lot 2		
Contractor logo and business name			Document Number		
 MITAS Energy & Metal Construction Inc. Eski Güvercinlik Yolu No: 113 Gazi 06560 Ankara / Turkey			7145A07-EG-FND-DWG- 0609_01		
Document Title			Scale	Sheet of Sheets	
Foundation Drawings of Tower Type "12A-MA" (for all soil types)			n.a.	Page 1 of 10	

Soil Type:	Type 1-Sound Rock
Foundation Type:	Rock Anchor
Tower Type:	12A-MA



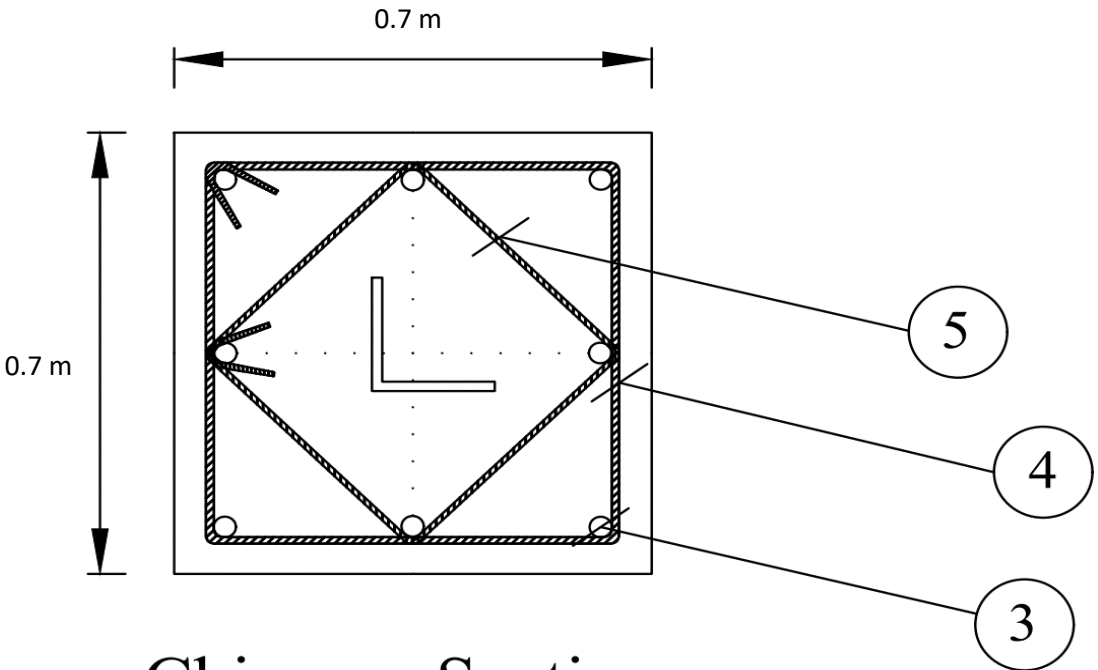
Dimensions (m)	
Width of Pad	bp = 1.50
Height of Pad	hp = 0.75
Width of Chimney	bc = 0.70
Height of Chimney above ground level	hc1 = 0.30
Height of Chimney under ground level	hc2 = 0.70
Total Height of Chimney	hc = 1.00
No. of Anchor Hole Rows	n = 3
No. of Anchor in one hole	m = 2
Total No. of Anchor Holes	i = 8
Distance of Anchor Rows	C = 0.550
Embedded Length of Anchors in Ground	L = 2.30
Anchor Hole Diameter (Minimum Value)	Dh = 0.075
Anchor Hole Length	Lh = 2.40
Depth of Pad	H = 1.45

Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	2.18	8.71
Excavation (Rock)	m3	3.26	13.05
Backfill	m3	1.09	4.34
Formwork	m2	2.80	11.20
Grout	m3	0.08	0.34
Drilling	m3	0.08	0.34
Reinforcement	kg	305	1220

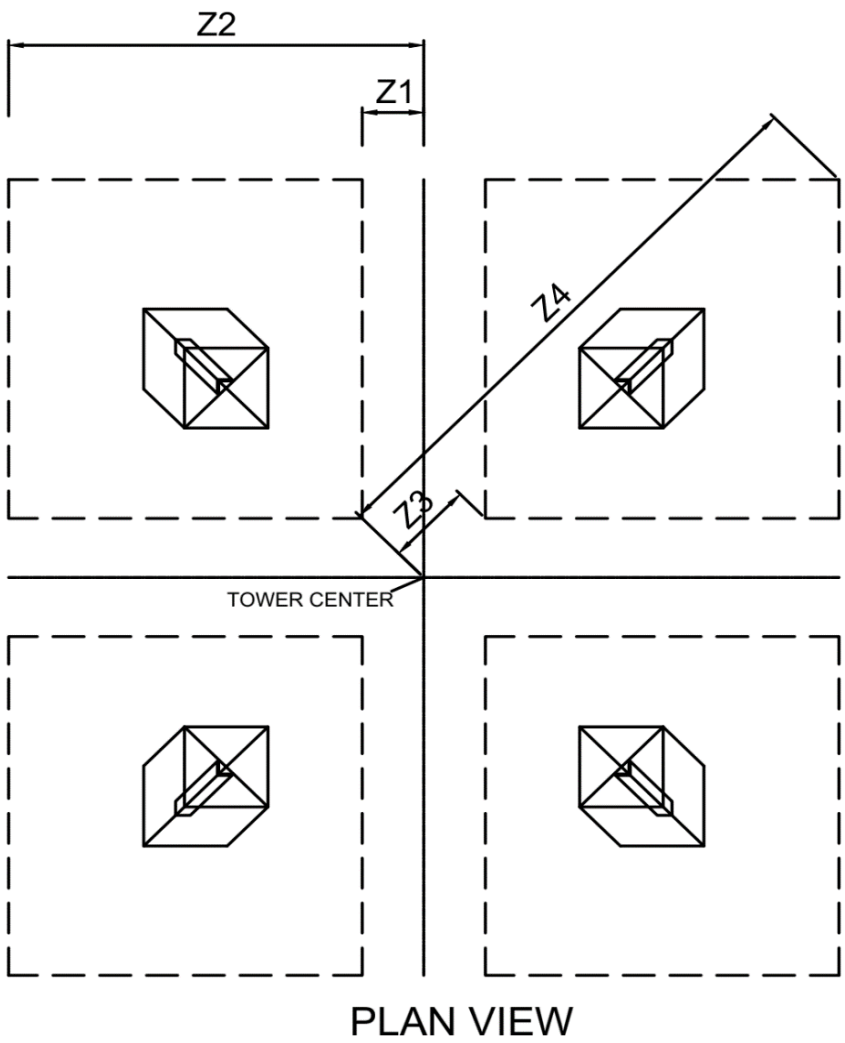
Material Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Grout and Steel Bond Stress	2.00	Mpa
Grout and Rock Bond Stress	0.90	Mpa
Concrete and Rebar Bond Stress	2.30	Mpa
Soil Density	2.55	ton/m3
Bearing Capacity of Soils	10.19	kg/cm2

- NOTES :
- 1- Concrete Class : C20/25
 - 2- Steel Reinforcement Class : S500
 - 3- Concrete Cover : 75 mm
 - 4- Soil Layer Shall Be Compacted To Maintain Soil Density.
 - 5- Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - 6- In case of high soil resistance, filling shall be done using soil with low resistance.
 - 7- Concrete surface shall be covered with bitumen in case of aggressive soil conditions
 - 8- Expanding Grout to be used as per Technical Specification or Manufacturer Instruction.

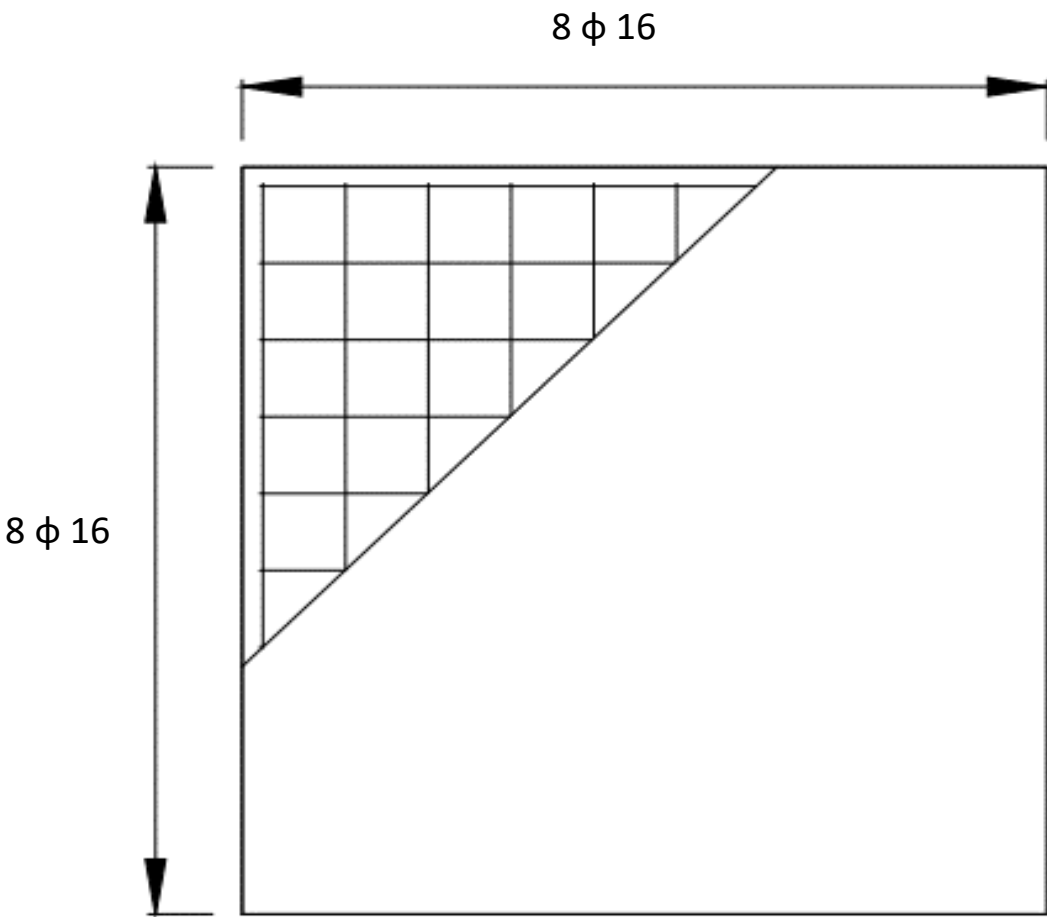
Mark	Pattern	Length (cm)	Diameter (mm)	Unit Weight (kg)	QTY	Total Weight
1		345	20	8.52	16	136.3
2		425	16	6.72	16	107.5
3		200	20	4.94	8	39.5
4		251	8	0.992	13	12.6
5		182	8	0.72	13	9.1
SUM						305.0



Chimney Section



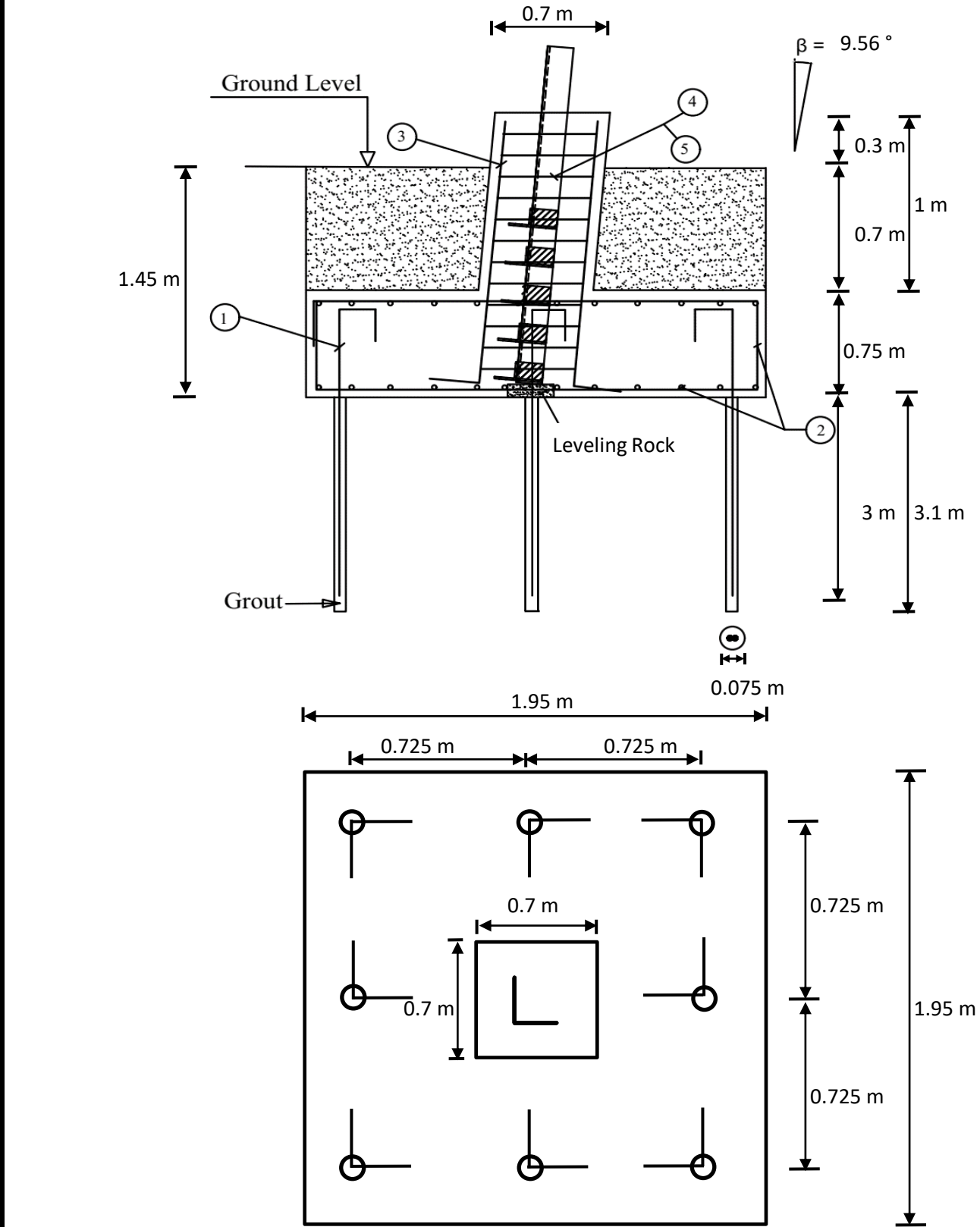
BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	2921	4421	4131	6252
	-1.5	3174	4674	4488	6609
	+0	3426	4926	4845	6967
	+1.5	3679	5179	5203	7324
	+3	3932	5432	5560	7681
	+4.5	4184	5684	5917	8039
BE+0	+6	4437	5937	6275	8396
	-3	3426	4926	4845	6967
	-1.5	3679	5179	5203	7324
	+0	3932	5432	5560	7681
	+1.5	4184	5684	5917	8039
	+3	4437	5937	6275	8396
BE+3	+4.5	4690	6190	6632	8753
	+6	4942	6442	6990	9111
	-3	3932	5432	5560	7681
	-1.5	4184	5684	5917	8039
	+0	4437	5937	6275	8396
	+1.5	4690	6190	6632	8753
BE+6	+3	4942	6442	6990	9111
	+4.5	5195	6695	7347	9468
	+6	5448	6948	7704	9826
	-3	4437	5937	6275	8396
	-1.5	4690	6190	6632	8753
	+0	4942	6442	6990	9111



Pad Rebars

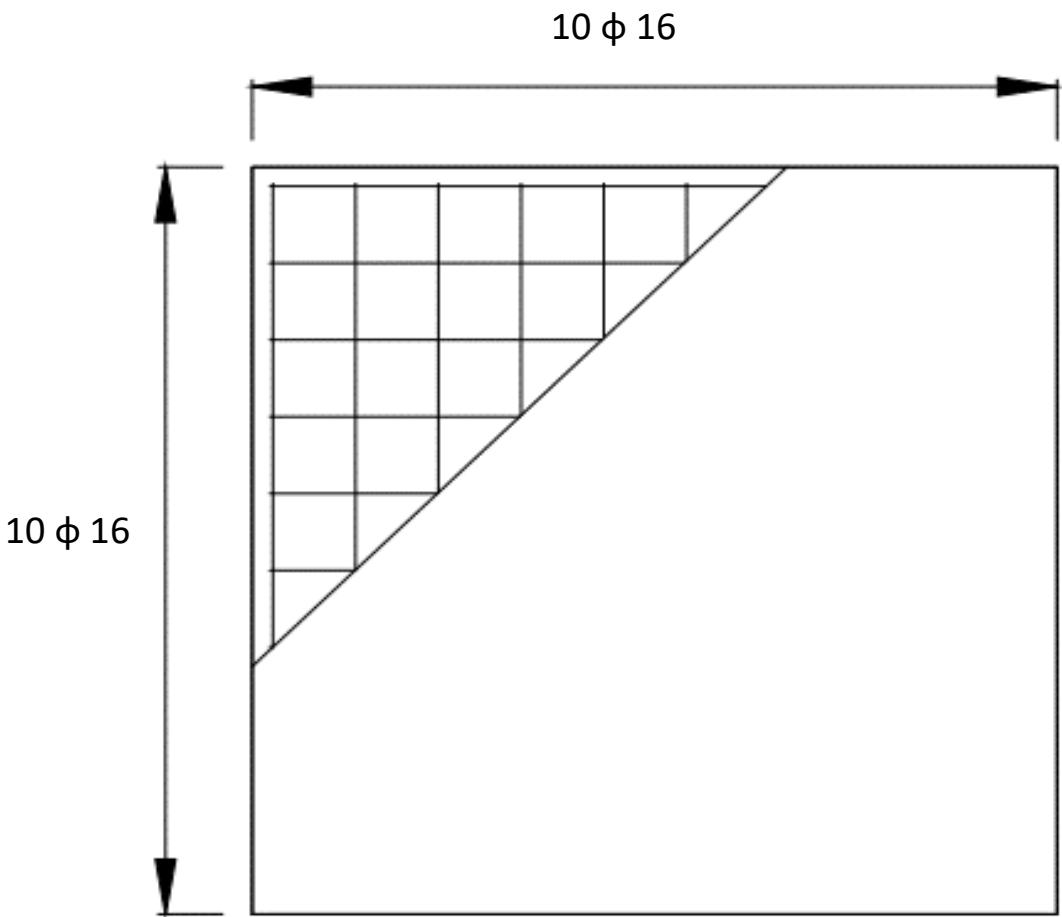
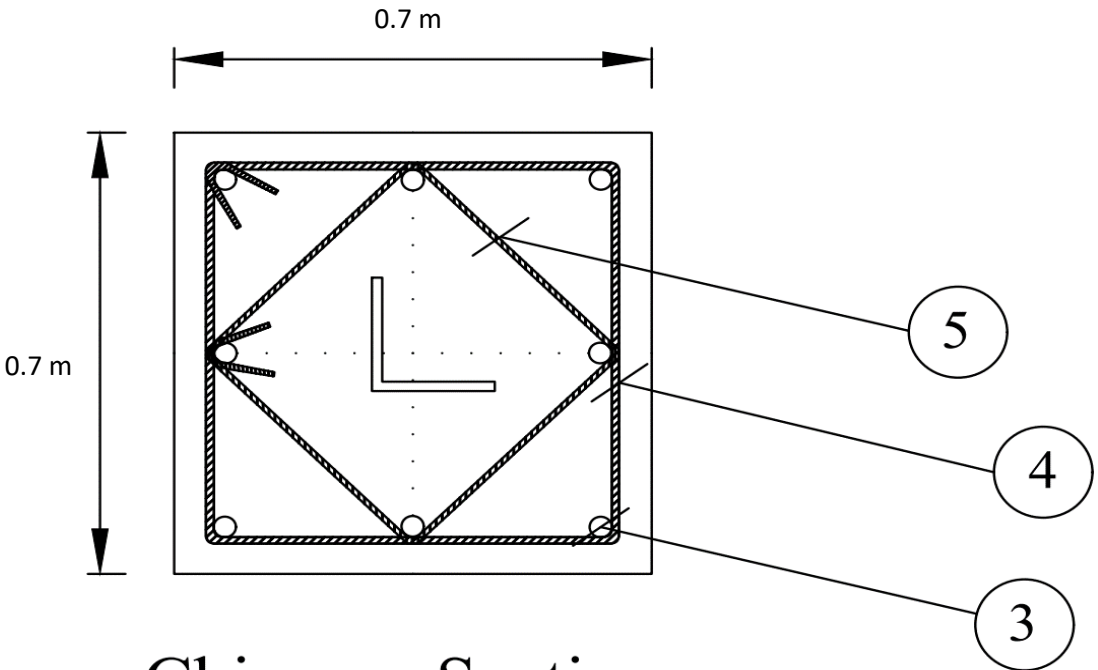
* All dimensions and quantities shall be checked prior to construction			
1	Revised as per Consultant Comments	02.11.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de			
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi / Ankara / Turkey info@mitastower.com			
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:		AP ☐	
DATE OF REVIEW / განხილვის თარიღი:		AC ☐	
		NA ☐	
APPROVED BY / დამტკიცებულია:		K.KARAGOZ	Foundation Drawings of Tower Type " 12A-MA " Soil Type 1-Sound Rock Rock Anchor Foundation
CHECKED BY / შემოწმებულია:		H.O.BULUT	
DESIGNED BY / ავტორი:		D. Nezamolmolki	
DRAWN BY / შემსრულებელი:		D. Nezamolmolki	
DATE OF ISSUE / გამოცემის თარიღი:		21.07.22	
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0609_01	1	2 of 10

Soil Type:	Type 2-Deleterious Rock
Foundation Type:	Rock Anchor
Tower Type:	12A-MA



* The foundation is in direct contact with undisturbed soil.

Mark	Pattern	Length (cm)	Diameter (mm)	Unit Weight (kg)	QTY	Total Weight
1		415	20	10.25	16	164.0
2		515	16	8.14	20	162.8
3		200	20	4.94	8	39.5
4		251	8	0.992	13	12.6
5		182	8	0.72	13	9.1
SUM						388.0



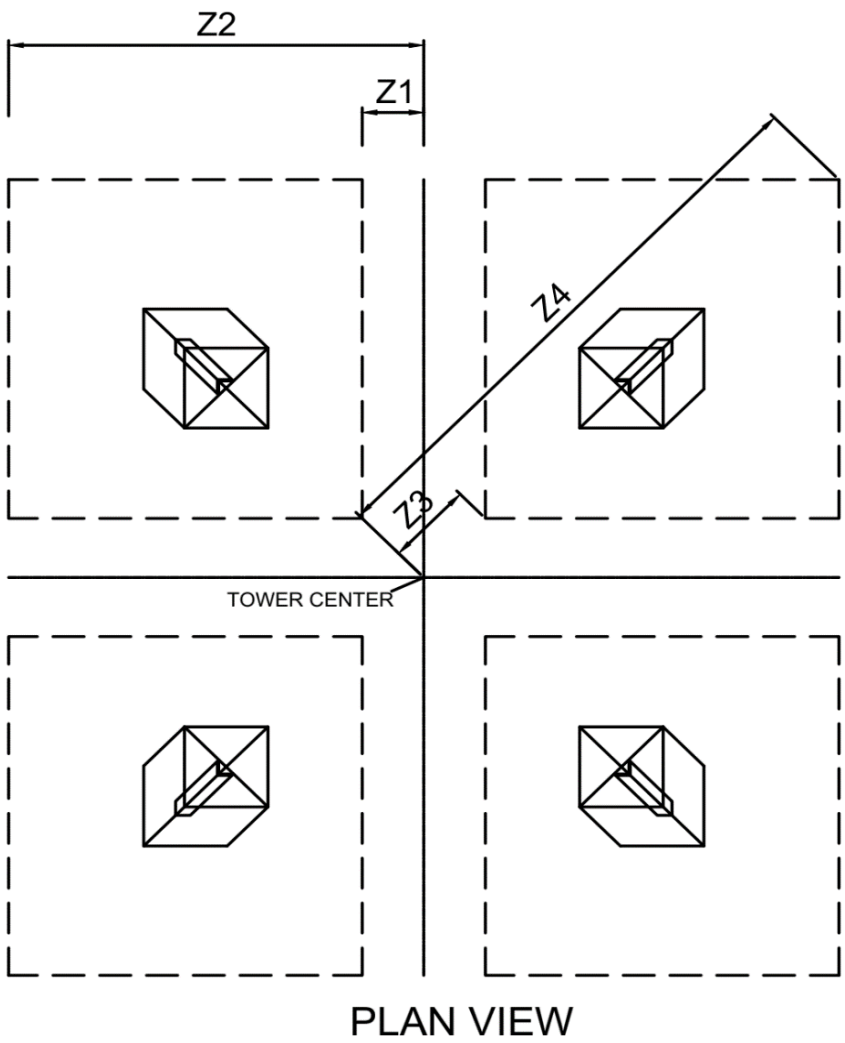
Pad Rebars

Dimensions (m)	
Width of Pad	bp = 1.95
Height of Pad	hp = 0.75
Width of Chimney	bc = 0.70
Height of Chimney above ground level	hc1 = 0.30
Height of Chimney under ground level	hc2 = 0.70
Total Height of Chimney	hc = 1.00
No. of Anchor Hole Rows	n = 3
No. of Anchor in one hole	m = 2
Total No. of Anchor Holes	i = 8
Distance of Anchor Rows	C = 0.725
Embedded Length of Anchors in Ground	L = 3.00
Anchor Hole Diameter (Minimum Value)	Dh = 0.075
Anchor Hole Length	Lh = 3.10
Depth of Pad	H = 1.45

Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	3.34	13.37
Excavation (Rock)	m3	5.51	22.05
Backfill	m3	2.17	8.69
Formwork	m2	2.80	11.20
Grout	m3	0.11	0.44
Drilling	m3	0.11	0.44
Reinforcement	kg	388	1552

Material Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Grout and Steel Bond Stress	2.00	Mpa
Grout and Rock Bond Stress	0.60	Mpa
Concrete and Rebar Bond Stress	2.30	Mpa
Soil Density	2.04	ton/m3
Bearing Capacity of Soils	5.10	kg/cm2

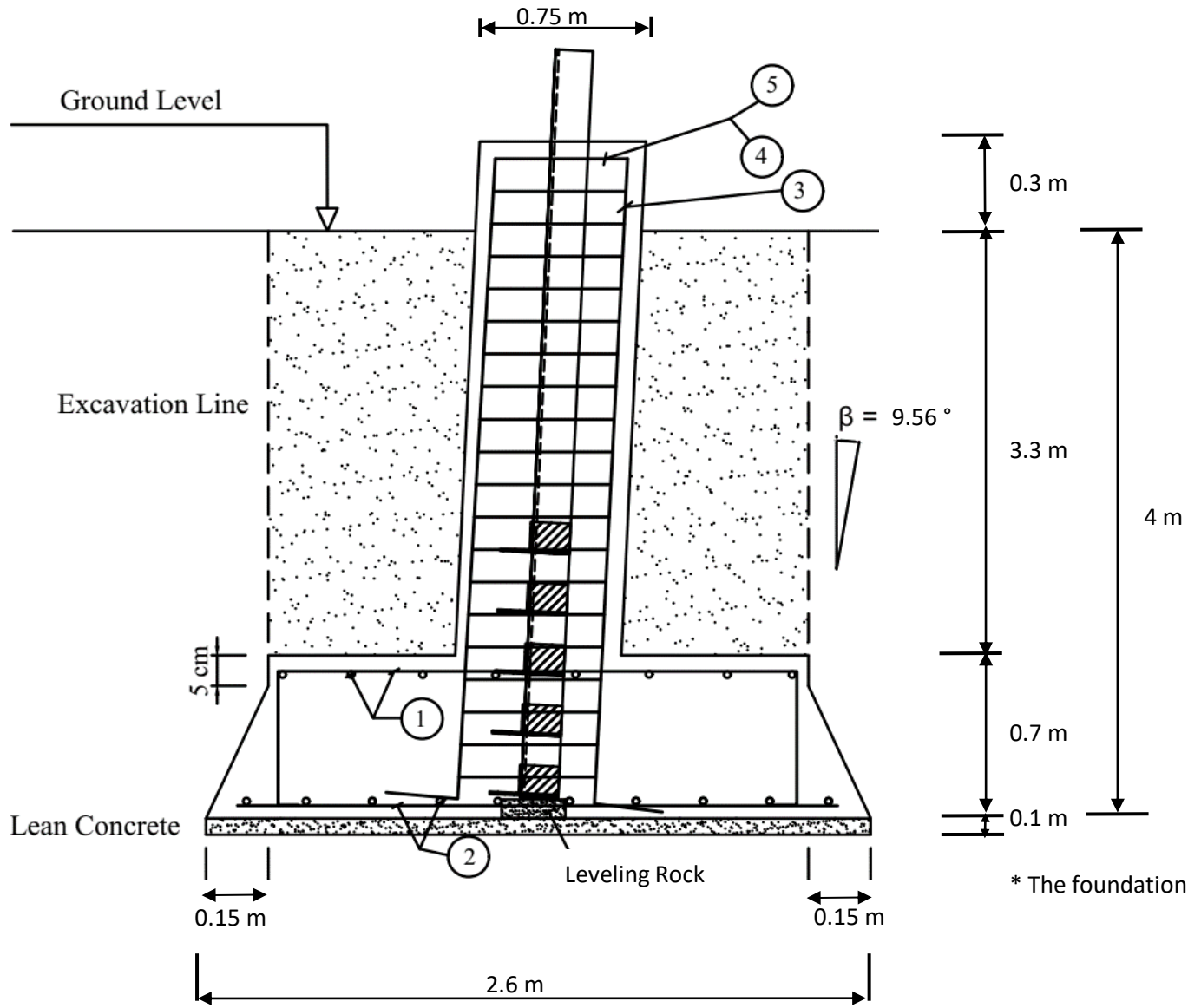
- NOTES :
- 1- Concrete Class : C20/25
 - 2- Steel Reinforcement Class : S500
 - 3- Concrete Cover : 75 mm
 - 4- Soil Layer Shall Be Compacted To Maintain Soil Density.
 - 5- Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - 6- In case of high soil resistance, filling shall be done using soil with low resistance.
 - 7- Concrete surface shall be covered with bitumen in case of aggressive soil conditions
 - 8- Expanding Grout to be used as per Technical Specification or Manufacturer Instruction.



BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	2696	4646	3813	6570
	-1.5	2949	4899	4170	6928
	+0	3201	5151	4527	7285
	+1.5	3454	5404	4885	7642
	+3	3707	5657	5242	8000
	+4.5	3959	5909	5599	8357
BE+0	+6	4212	6162	5957	8714
	-3	3201	5151	4527	7285
	-1.5	3454	5404	4885	7642
	+0	3707	5657	5242	8000
	+1.5	3959	5909	5599	8357
	+3	4212	6162	5957	8714
BE+3	+4.5	4465	6415	6314	9072
	+6	4717	6667	6671	9429
	-3	3707	5657	5242	8000
	-1.5	3959	5909	5599	8357
	+0	4212	6162	5957	8714
	+1.5	4465	6415	6314	9072
BE+6	+3	4717	6667	6671	9429
	+4.5	5475	7425	7743	10501
	+6	5728	7678	8101	10858
	-3	4212	6162	5957	8714
	-1.5	4465	6415	6314	9072
	+0	4717	6667	6671	9429

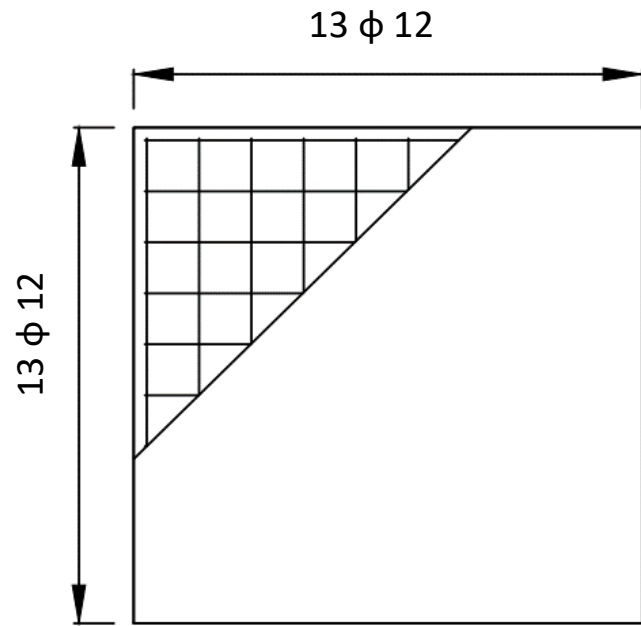
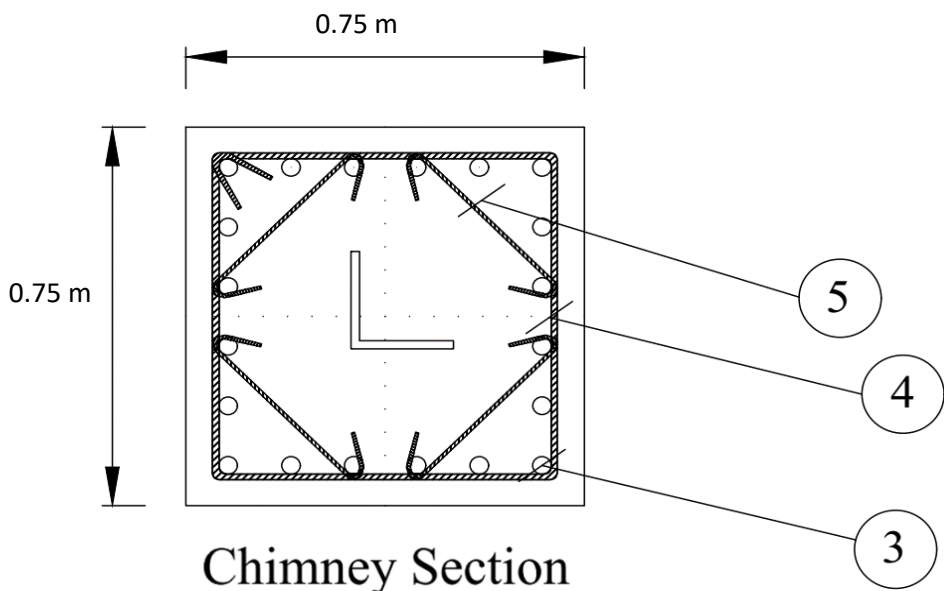
* All dimensions and quantities shall be checked prior to construction			
1	Revised as per Consultant Comments	02.11.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de			
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi - Ankara / Turkey info@mitastower.com			
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:			
DATE OF REVIEW / განხილვის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT	Foundation Drawings of Tower Type	
DESIGNED BY / ავტორი:	D. Nezamolmolki	" 12A-MA "	
DRAWN BY / შემსრულებელი:	D. Nezamolmolki	Soil Type 2-Deleterious Rock	
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22	Rock Anchor Foundation	
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0609_01	1	3 of 10

Soil Type:	Type 2-Deleterious Rock
Foundation Type:	Semi-Auger
Tower Type:	12A-MA

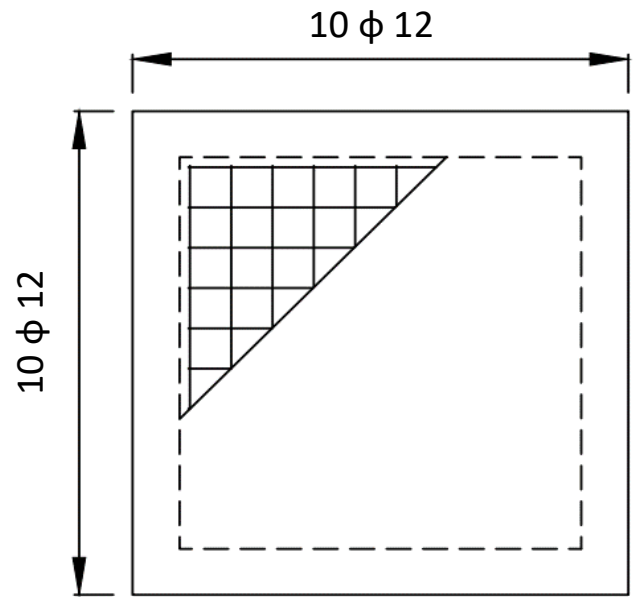


Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1		355	12	3.15	20	63.0
2		245	12	2.18	26	56.6
3		455	16	7.19	20	143.8
4		270	8	1.06	29	30.9
5		50	8	0.20	116	22.9
SUM						317.2

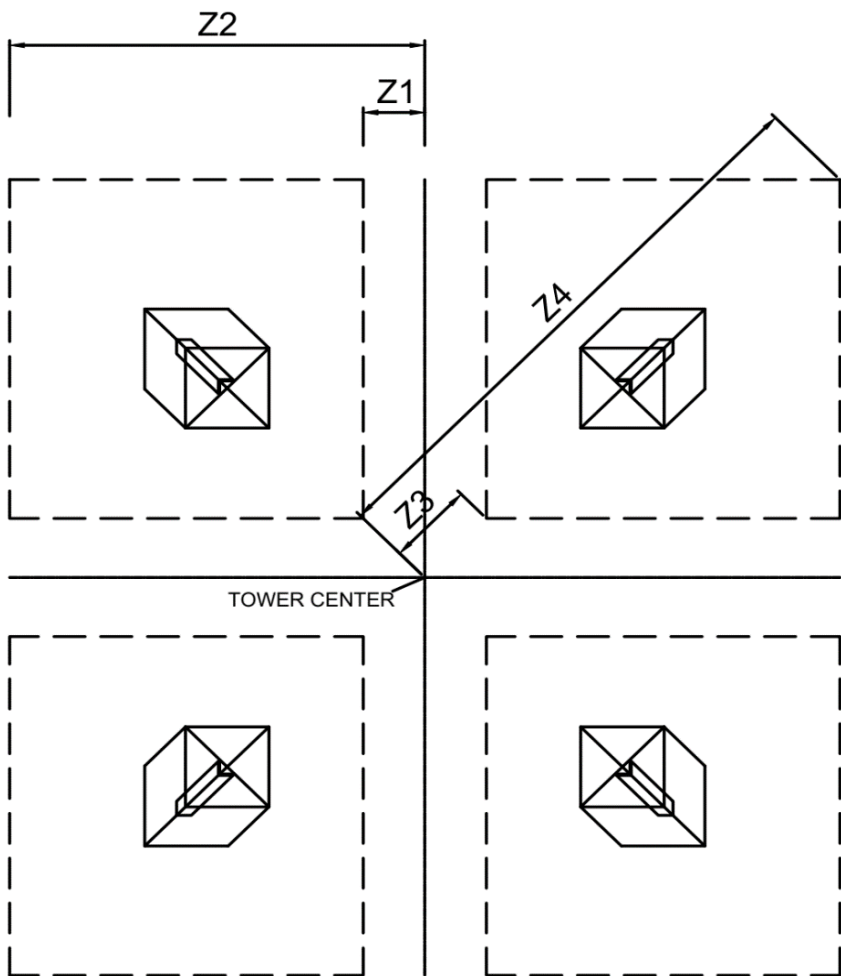
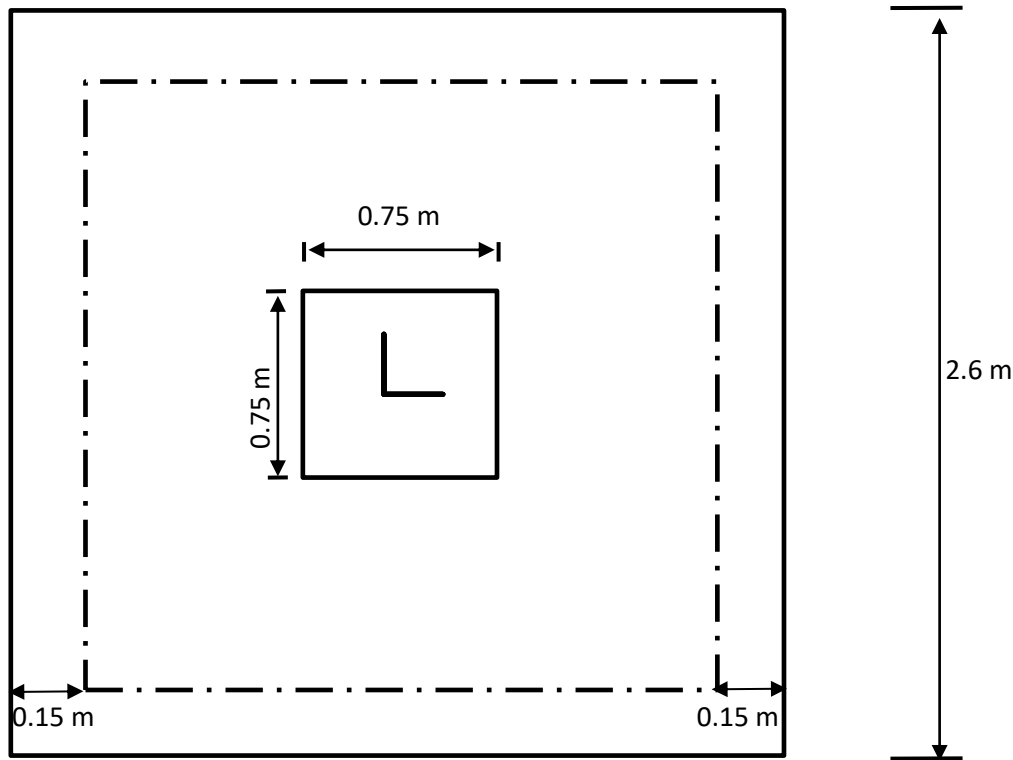
* The foundation is in direct contact with undisturbed soil.



Bottom of Pad



Top of Pad



PLAN VIEW

NOTES :

- 1- Concrete Class : C20/25
- 2- Steel Reinforcement Class : S500
- 3- Concrete Cover : 75 mm
- 4- Soil Layer Shall Be Compacted To Maintain Soil Density.
- 5- Sulphate resistant concrete shall be used in case of aggressive soil conditions.
- 6- In case of high soil resistance, filling shall be done using soil with low resistance.
- 7- Concrete surface shall be covered with bitumen in case of aggressive soil conditions

Dimensions (m)		
Width of Pad	bp =	2.60
Height of Pad	hp =	0.70
Width of Chimney	bc =	0.75
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	3.30
Depth of Pad	H =	4.00

Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	6.2	24.9
Excavation	m3	21.7	86.8
Backfill	m3	15.5	61.8
Lean Concrete	m3	0.7	2.7
Formwork	m2	10.8	43.2
Reinforcement	kg	317.2	1268.6

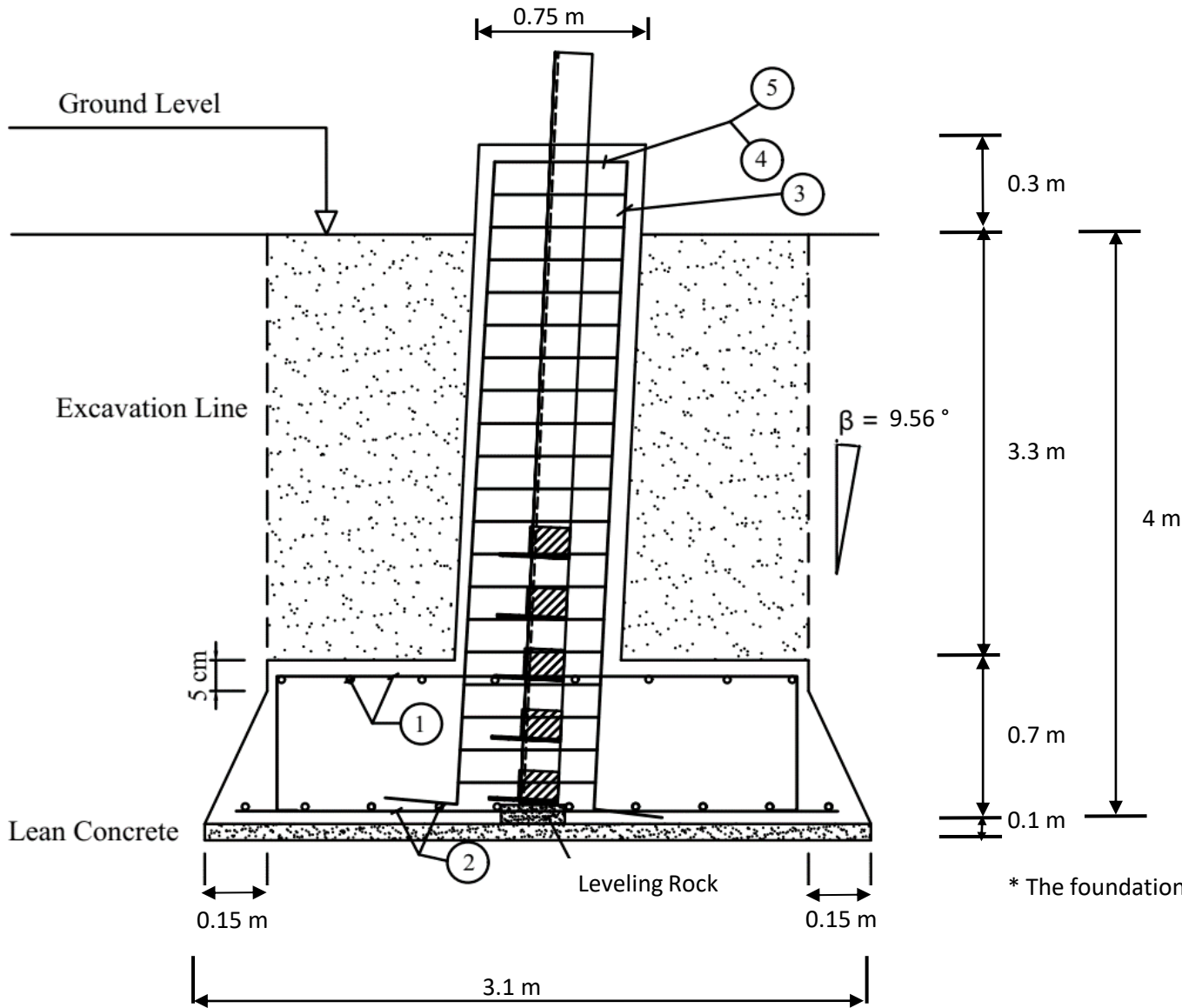
Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	2.04	ton/m3
Backfill Density	2.04	ton/m3
Bearing Capacity of Soils	5.10	kg/cm2

BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	2950	5250	4172	7425
	-1.5	3203	5503	4529	7782
	+0	3455	5755	4887	8140
	+1.5	3708	6008	5244	8497
	+3	3961	6261	5601	8854
	+4.5	4213	6513	5959	9212
BE+0	+6	4466	6766	6316	9569
	-3	3455	5755	4887	8140
	-1.5	3708	6008	5244	8497
	+0	3961	6261	5601	8854
	+1.5	4213	6513	5959	9212
	+3	4466	6766	6316	9569
BE+3	+4.5	4719	7019	6674	9926
	+6	4972	7272	7031	10284
	-3	3961	6261	5601	8854
	-1.5	4213	6513	5959	9212
	+0	4466	6766	6316	9569
	+1.5	4719	7019	6674	9926
BE+6	+3	4972	7272	7031	10284
	+4.5	5224	7524	7388	10641
	+6	5477	7777	7746	10998
	-3	4466	6766	6316	9569
	-1.5	4719	7019	6674	9926
	+0	4972	7272	7031	10284

* All dimensions and quantities shall be checked prior to construction

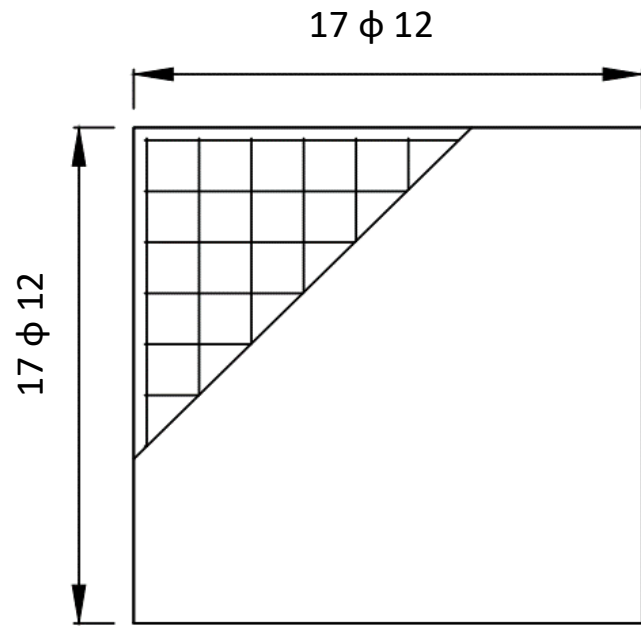
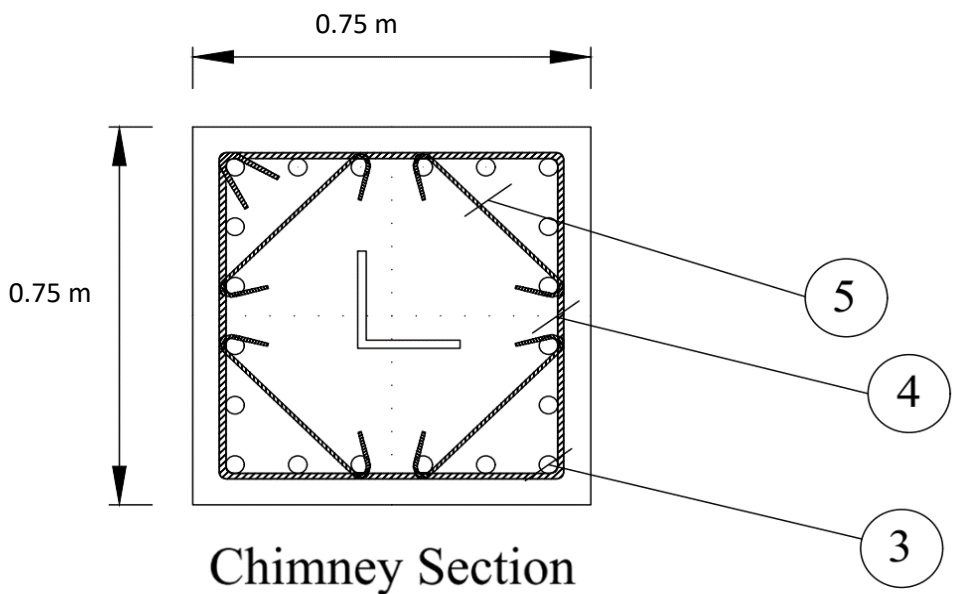
1	Revised as per Consultant Comments	02.11.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de			
CONTRACTOR / კონტრაქტორი : Mitaz Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com			
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:			
DATE OF REVIEW / განხილის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT		
DESIGNED BY / ავტორი:	D. Nezamolmolki		
DRAWN BY / შემსრულებელი:	D. Nezamolmolki		
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22		
		Foundation Drawings of Tower Type	
		" 12A-MA "	
		Soil Type 2-Deleterious Rock	
		Semi-Auger Foundation	
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0609_01	1	4 of 10

Soil Type:	Type 3-Good Soil
Foundation Type:	Semi-Auger
Tower Type:	12A-MA

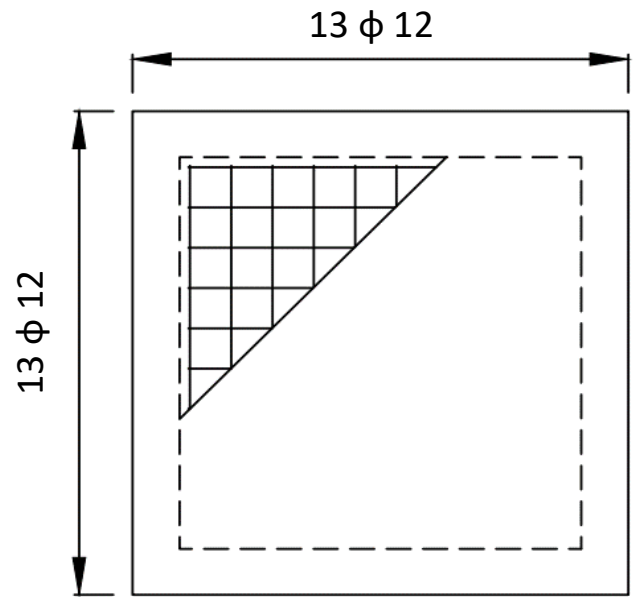


* The foundation is in direct contact with undisturbed soil.

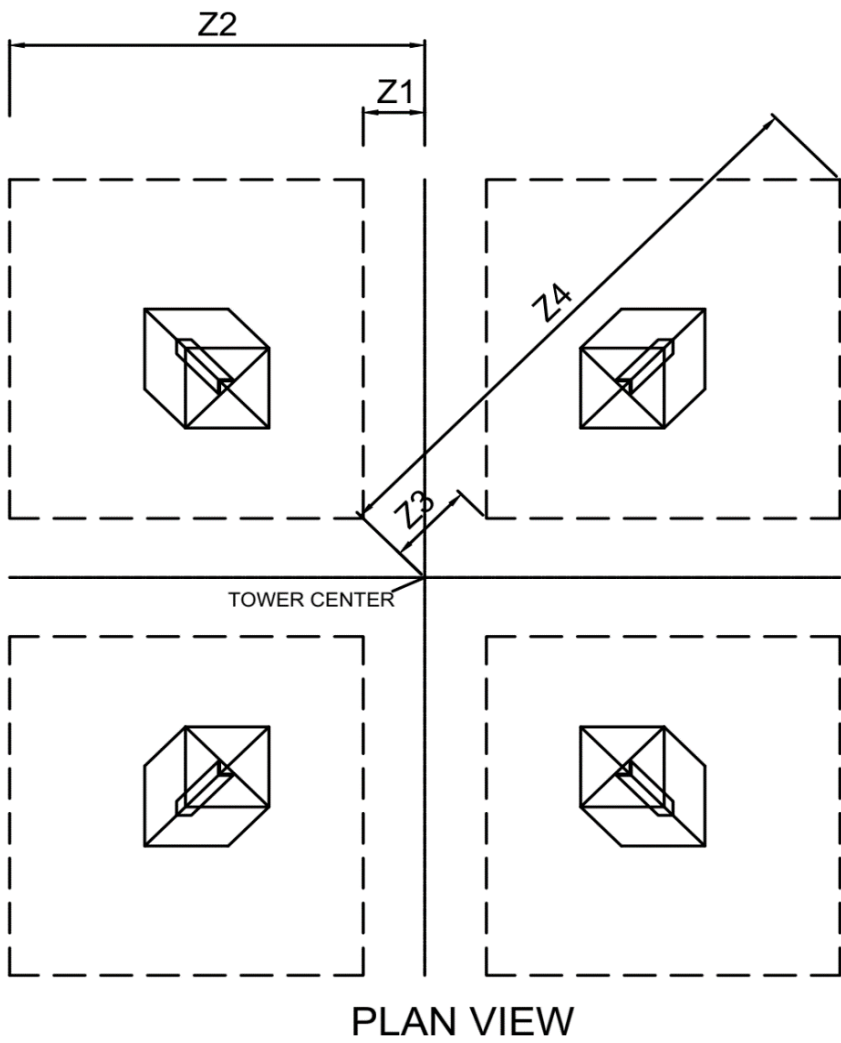
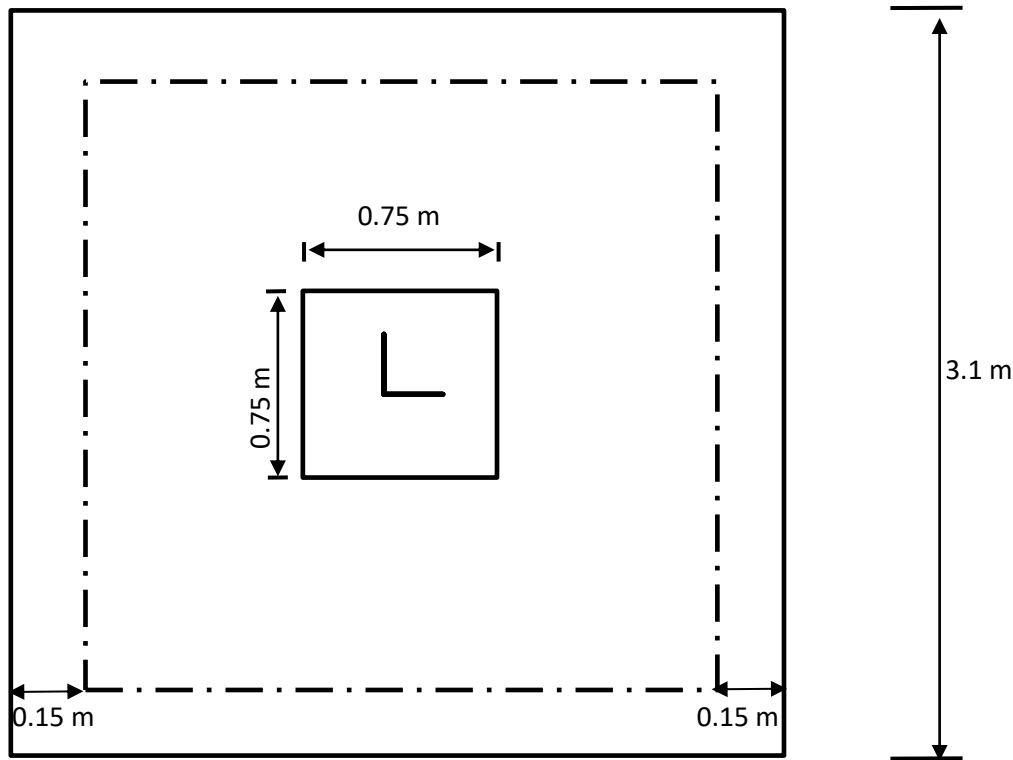
Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1		405	12	3.60	26	93.5
2		295	12	2.62	34	89.1
3		455	16	7.19	20	143.8
4		270	8	1.06	29	30.9
5		50	8	0.20	116	22.9
SUM						380.1



Bottom of Pad



Top of Pad



BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	2700	5500	3819	7778
	-1.5	2953	5753	4176	8136
	+0	3205	6005	4533	8493
	+1.5	3458	6258	4891	8850
	+3	3711	6511	5248	9208
	+4.5	3963	6763	5605	9565
	+6	4216	7016	5963	9922
BE+0	-3	3205	6005	4533	8493
	-1.5	3458	6258	4891	8850
	+0	3711	6511	5248	9208
	+1.5	3963	6763	5605	9565
	+3	4216	7016	5963	9922
	+4.5	4469	7269	6320	10280
	+6	4722	7522	6677	10637
BE+3	-3	3711	6511	5248	9208
	-1.5	3963	6763	5605	9565
	+0	4216	7016	5963	9922
	+1.5	4469	7269	6320	10280
	+3	4722	7522	6677	10637
	+4.5	4974	7774	7035	10994
	+6	5227	8027	7392	11352
BE+6	-3	4216	7016	5963	9922
	-1.5	4469	7269	6320	10280
	+0	4722	7522	6677	10637
	+1.5	4974	7774	7035	10994
	+3	5227	8027	7392	11352
	+4.5	5480	8280	7749	11709
	+6	5732	8532	8107	12067

- NOTES :
- 1- Concrete Class : C20/25
 - 2- Steel Reinforcement Class : S500
 - 3- Concrete Cover : 75 mm
 - 4- Soil Layer Shall Be Compacted To Maintain Soil Density.
 - 5- Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - 6- In case of high soil resistance, filling shall be done using soil with low resistance.
 - 7- Concrete surface shall be covered with bitumen in case of aggressive soil conditions

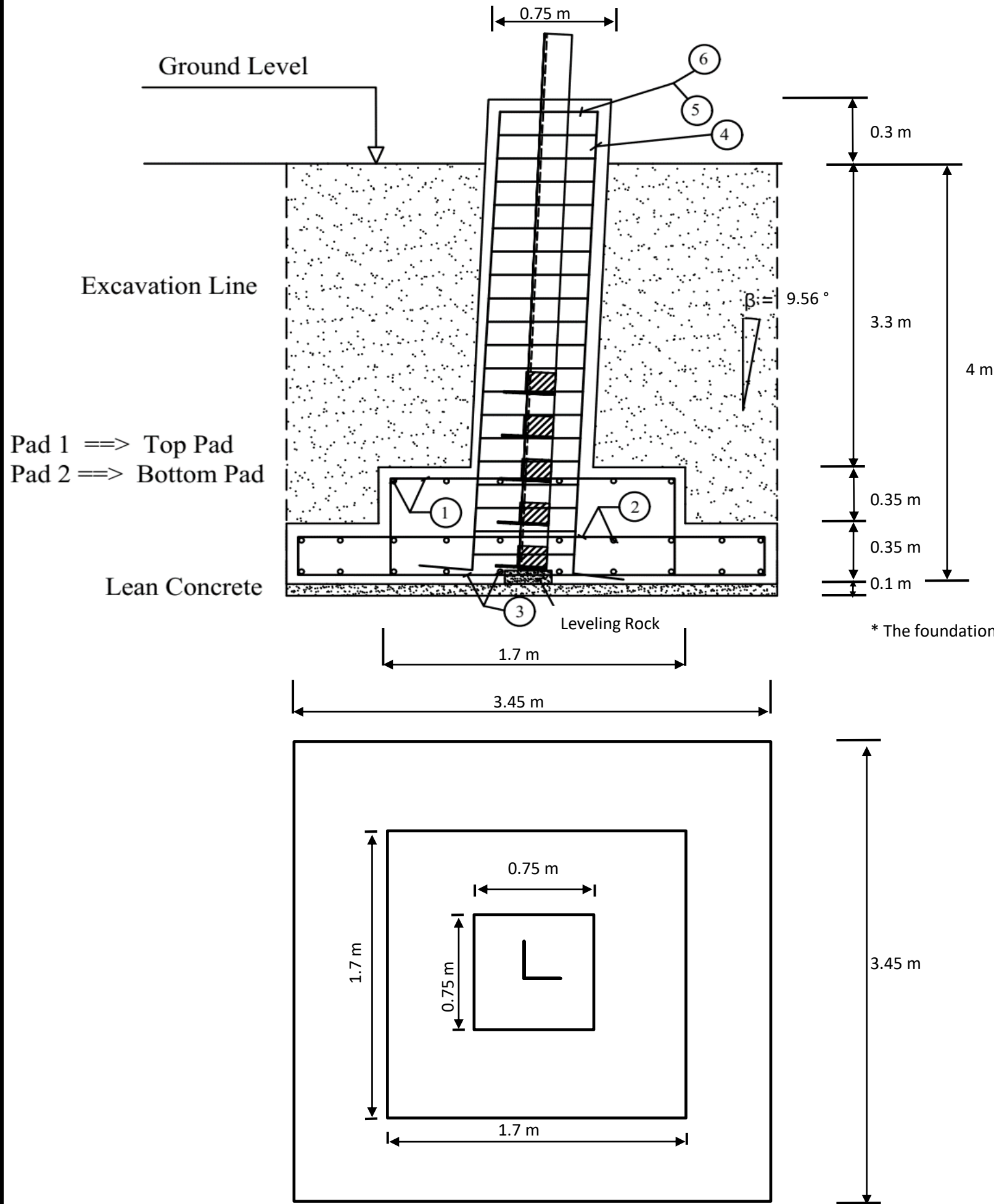
Dimensions (m)		
Width of Pad	bp =	3.10
Height of Pad	hp =	0.70
Width of Chimney	bc =	0.75
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	3.30
Depth of Pad	H =	4.00

Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	8.1	32.5
Excavation	m3	32.1	128.6
Backfill	m3	24.0	96.1
Lean Concrete	m3	1.0	3.8
Formwork	m2	10.8	43.2
Reinforcement	kg	380.1	1520.5

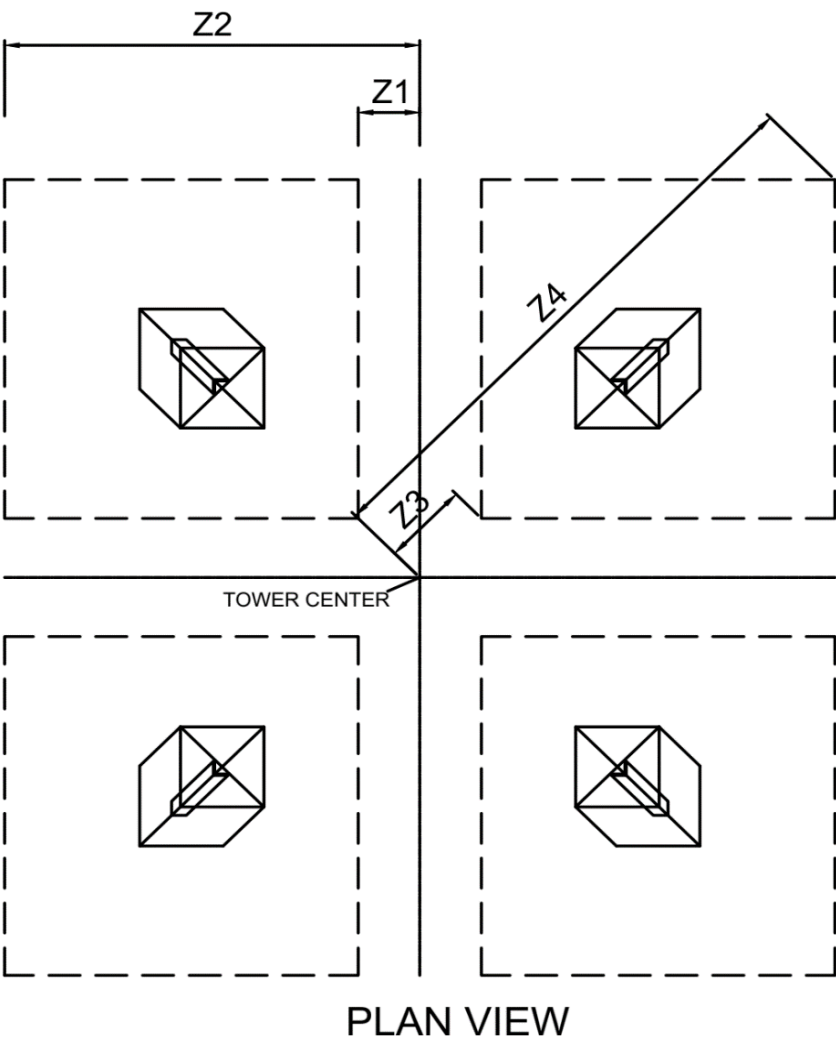
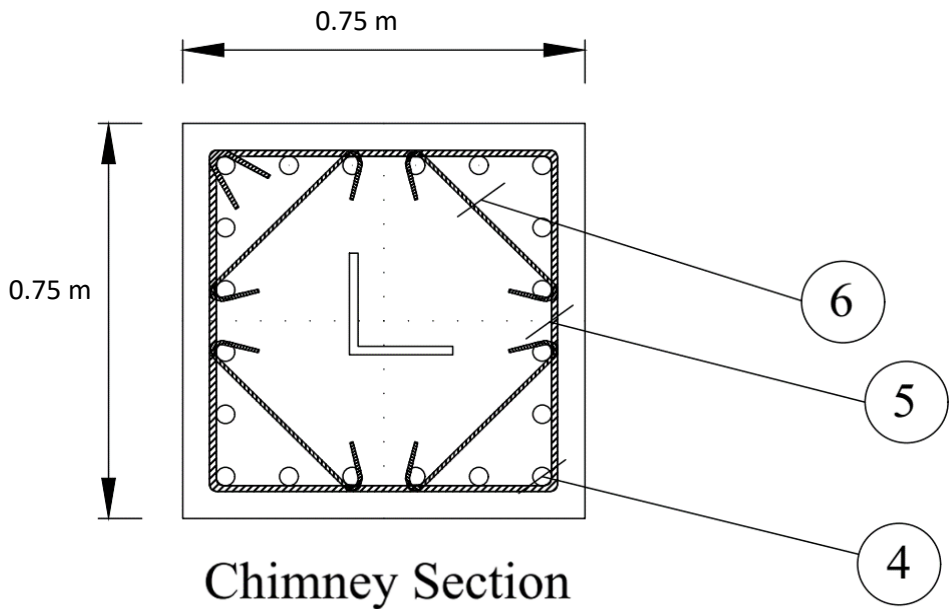
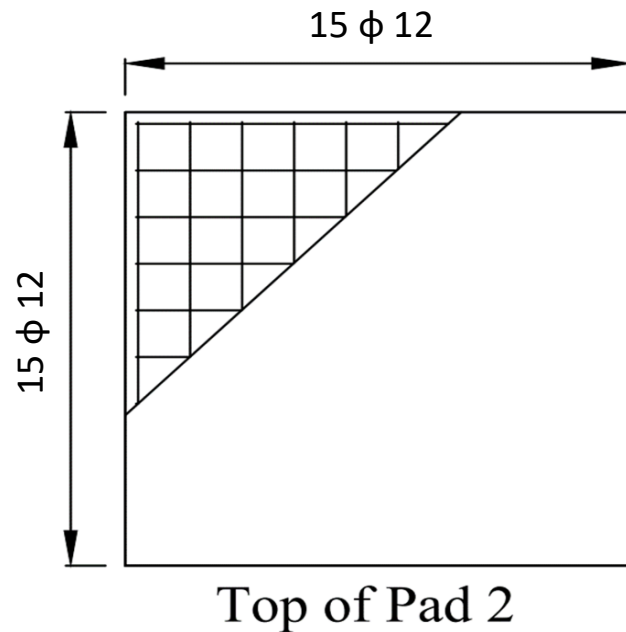
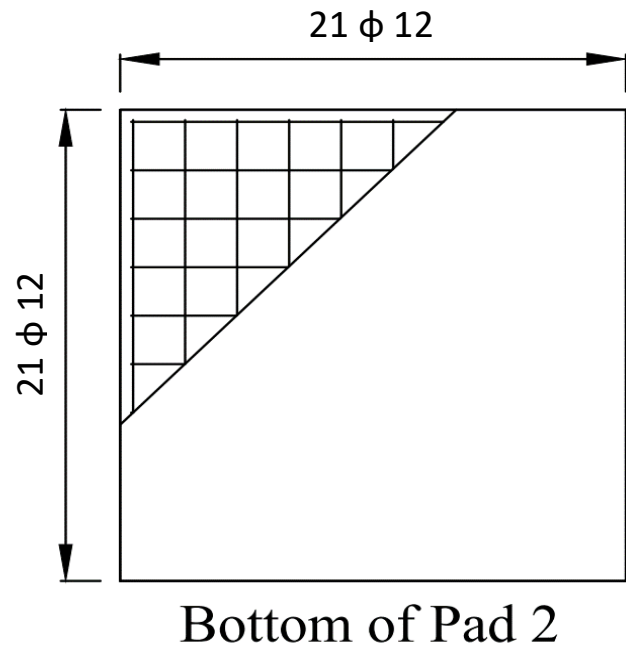
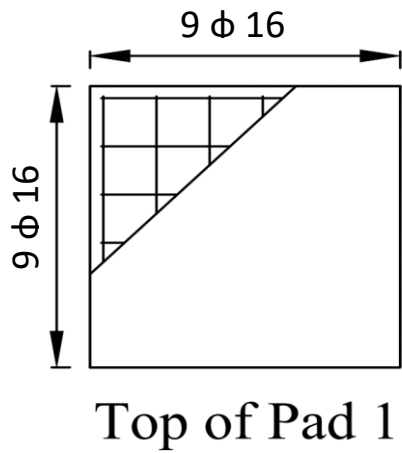
Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	1.73	ton/m3
Backfill Density	1.73	ton/m3
Bearing Capacity of Soils	3.06	kg/cm2

* All dimensions and quantities shall be checked prior to construction			
1	Revised as per Consultant Comments	02.11.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de		 FICHTNER	
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com		 MİTAŞ ENERGY	
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭდი:
REVIEWED BY / განხილულია:			
DATE OF REVIEW / განხილის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT		
DESIGNED BY / ავტორი:	D. Nezamolmolki		
DRAWN BY / შემსრულებელი:	D. Nezamolmolki		
DATE OF ISSUE / გამომცემის თარიღი:	21.07.22		
		Foundation Drawings of Tower Type " 12A-MA " Soil Type 3-Good Soil Semi-Auger Foundation	
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0609_01	1	5 of 10

Soil Type:	Type 3-Good Soil
Foundation Type:	Pad & Chimney
Tower Type:	12A-MA



Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1		295	16	4.66	18	83.9
2		400	12	3.55	30	106.6
3		330	12	2.93	42	123.1
4		455	16	7.19	20	143.8
5		270	8	1.06	29	30.9
6		50	8	0.20	116	22.9
SUM						511.1



BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	2375	5825	3359	8238
	-1.5	2628	6078	3716	8595
	+0	2880	6330	4074	8953
	+1.5	3133	6583	4431	9310
	+3	3386	6836	4788	9667
	+4.5	3638	7088	5146	10025
BE+0	+6	3891	7341	5503	10382
	-3	2880	6330	4074	8953
	-1.5	3133	6583	4431	9310
	+0	3386	6836	4788	9667
	+1.5	3638	7088	5146	10025
	+3	3891	7341	5503	10382
BE+3	+4.5	4144	7594	5860	10739
	+6	4397	7847	6218	11097
	-3	3386	6836	4788	9667
	-1.5	3638	7088	5146	10025
	+0	3891	7341	5503	10382
	+1.5	4144	7594	5860	10739
BE+6	+3	4397	7847	6218	11097
	+4.5	4649	8099	6575	11454
	+6	4902	8352	6932	11811
	-3	3891	7341	5503	10382
	-1.5	4144	7594	5860	10739
	+0	4397	7847	6218	11097

Dimensions (m)		
Width of Pad1	bp1 =	1.70
Width of Pad2	bp2 =	3.45
Height of Pad1	hp1 =	0.35
Height of Pad2	hp2 =	0.35
Width of Chimney	bc =	0.75
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	3.30
Depth of Pad	H =	4.00

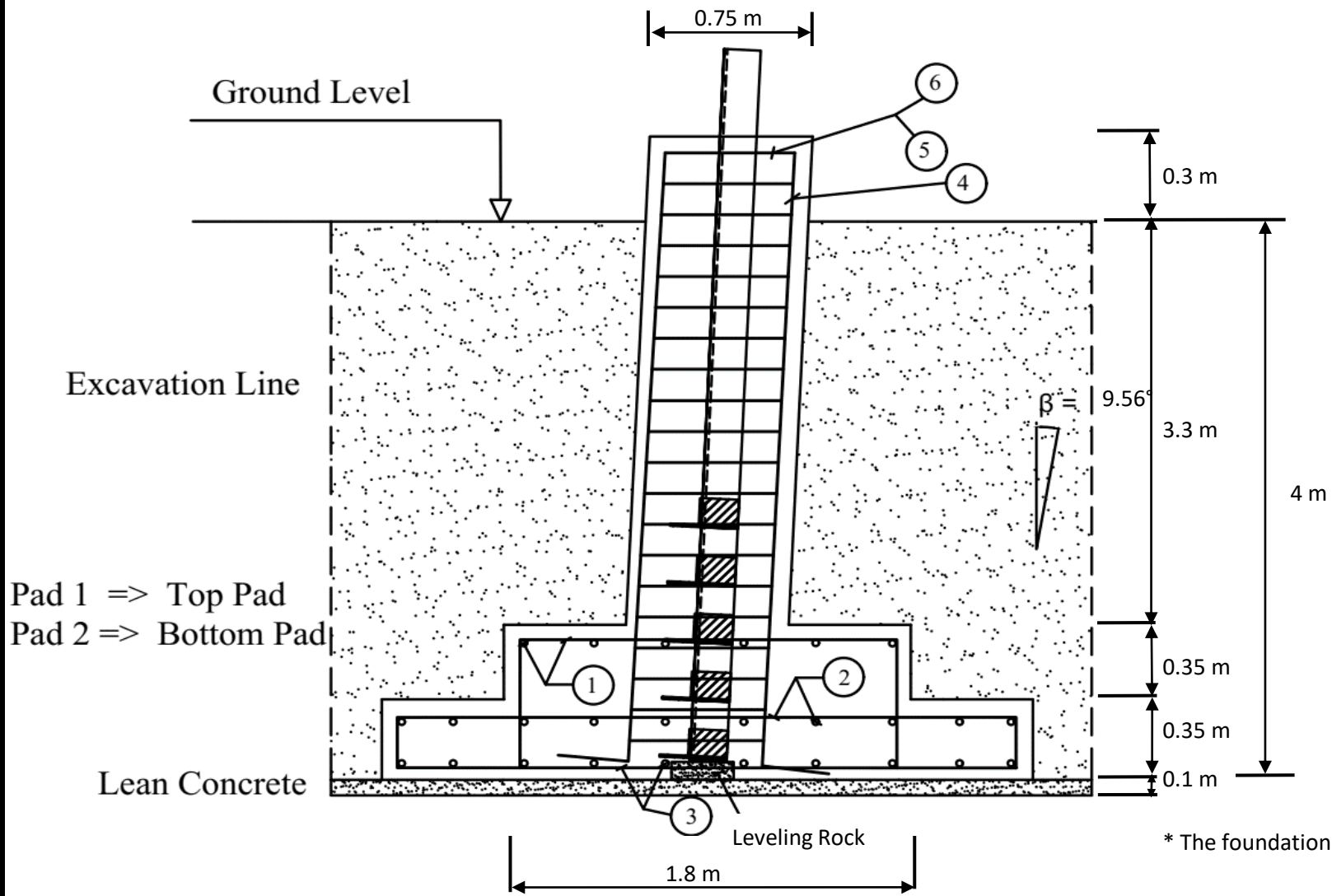
Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	7.2	28.8
Excavation	m3	48.8	195.2
Backfill	m3	41.6	166.4
Lean Concrete	m3	1.2	4.8
Formwork	m2	13.2	52.7
Reinforcement	kg	511.1	2044.3

Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	1.73	ton/m3
Backfill Density	1.73	ton/m3
Bearing Capacity of Soils	3.06	kg/cm2

- NOTES :
- Concrete Class : C20/25
 - Steel Reinforcement Class : S500
 - Concrete Cover : 75 mm
 - Soil Layer Shall Be Compacted To Maintain Soil Density.
 - Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - In case of high soil resistance, filling shall be done using soil with low resistance.
 - Concrete surface shall be covered with bitumen in case of aggressive soil conditions

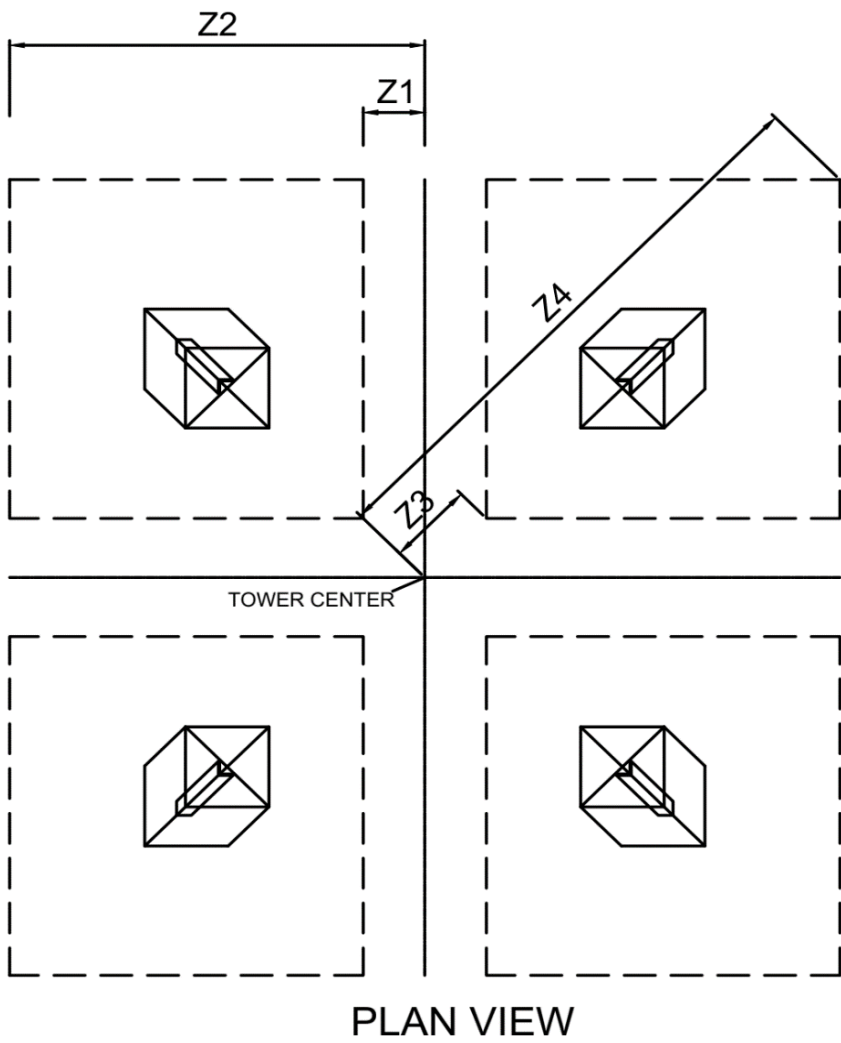
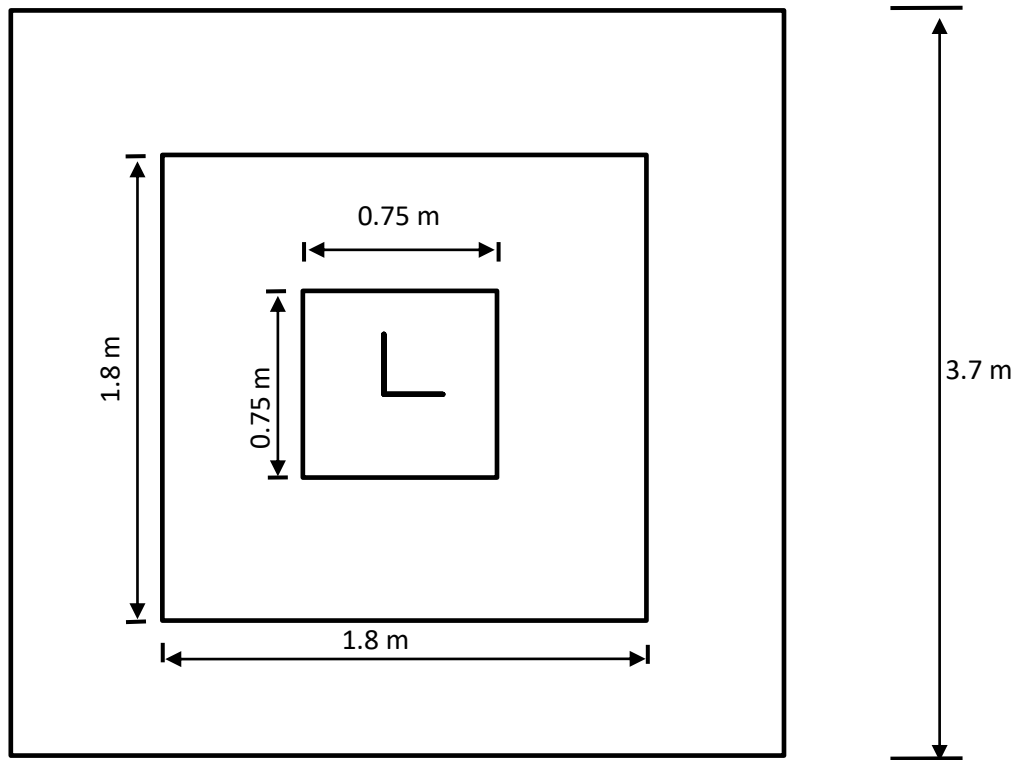
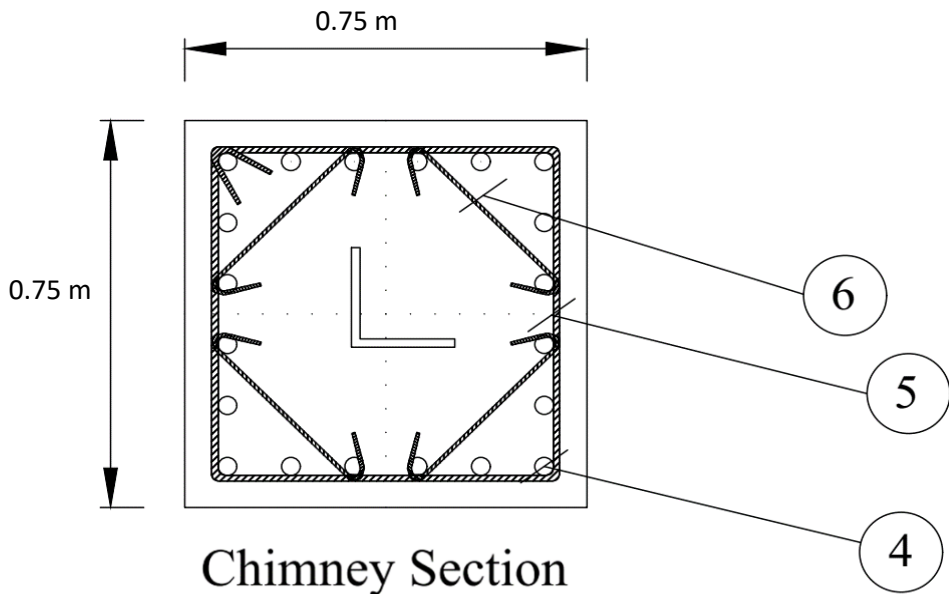
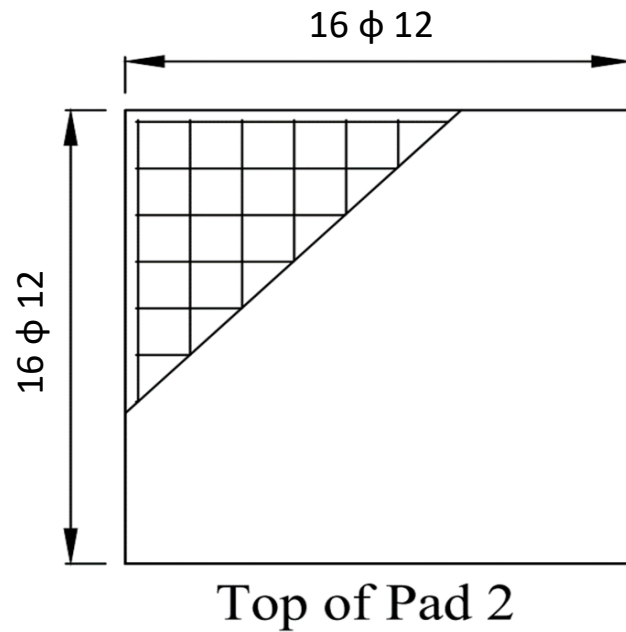
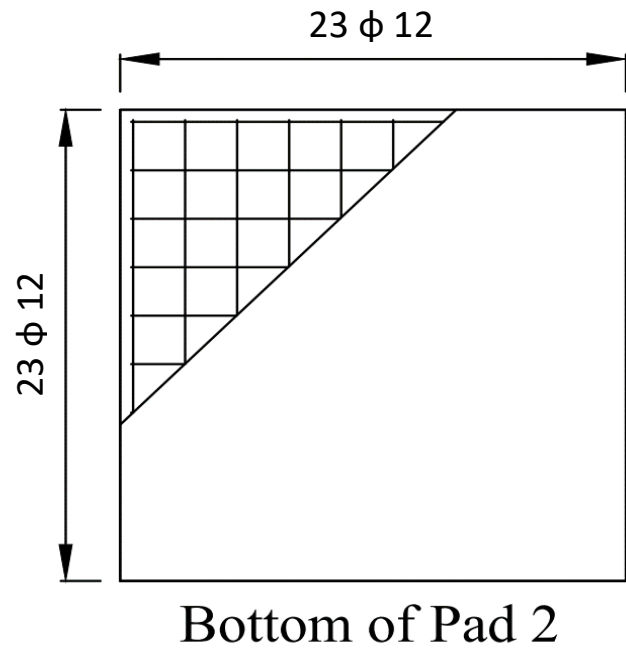
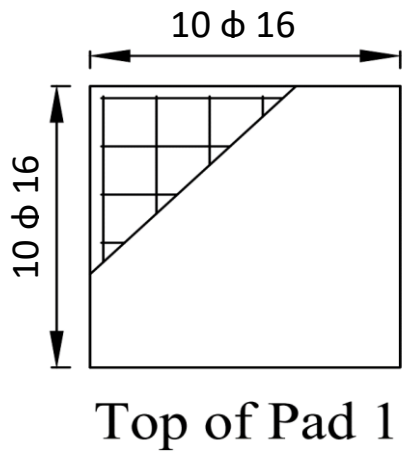
* All dimensions and quantities shall be checked prior to construction			
1	Revised as per Consultant Comments	02.11.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de			
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com		 	
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭდი:
REVIEWED BY / განხილულია:			
DATE OF REVIEW / განხილის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT	Foundation Drawings of Tower Type	
DESIGNED BY / ავტორი:	D. Nezamolmolki	" 12A-MA "	
DRAWN BY / შემსრულებელი:	D. Nezamolmolki	Soil Type 3-Good Soil	
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22	Pad & Chimney Foundation	
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0609_01	1	6 of 10

Soil Type:	Type 4-Normal Soil-Dry
Foundation Type:	Pad & Chimney
Tower Type:	12A-MA



Pad 1 => Top Pad
Pad 2 => Bottom Pad

Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1		305	16	4.82	20	96.4
2		425	12	3.77	32	120.8
3		355	12	3.15	46	145.0
4		455	16	7.19	20	143.8
5		270	8	1.06	29	30.9
6		50	8	0.20	116	22.9
SUM						559.7



BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	2250	5950	3182	8415
	-1.5	2503	6203	3539	8772
	+0	2755	6455	3897	9129
	+1.5	3008	6708	4254	9487
	+3	3261	6961	4612	9844
	+4.5	3513	7213	4969	10202
BE+0	+6	3766	7466	5326	10559
	-3	2755	6455	3897	9129
	-1.5	3008	6708	4254	9487
	+0	3261	6961	4612	9844
	+1.5	3513	7213	4969	10202
	+3	3766	7466	5326	10559
BE+3	+4.5	4019	7719	5684	10916
	+6	4272	7972	6041	11274
	-3	3261	6961	4612	9844
	-1.5	3513	7213	4969	10202
	+0	3766	7466	5326	10559
	+1.5	4019	7719	5684	10916
BE+6	+3	4272	7972	6041	11274
	+4.5	4524	8224	6398	11631
	+6	4777	8477	6756	11988
	-3	3766	7466	5326	10559
	-1.5	4019	7719	5684	10916
	+0	4272	7972	6041	11274

Dimensions (m)		
Width of Pad1	bp1 =	1.80
Width of Pad2	bp2 =	3.70
Height of Pad1	hp1 =	0.35
Height of Pad2	hp2 =	0.35
Width of Chimney	bc =	0.75
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	3.30
Depth of Pad	H =	4.00

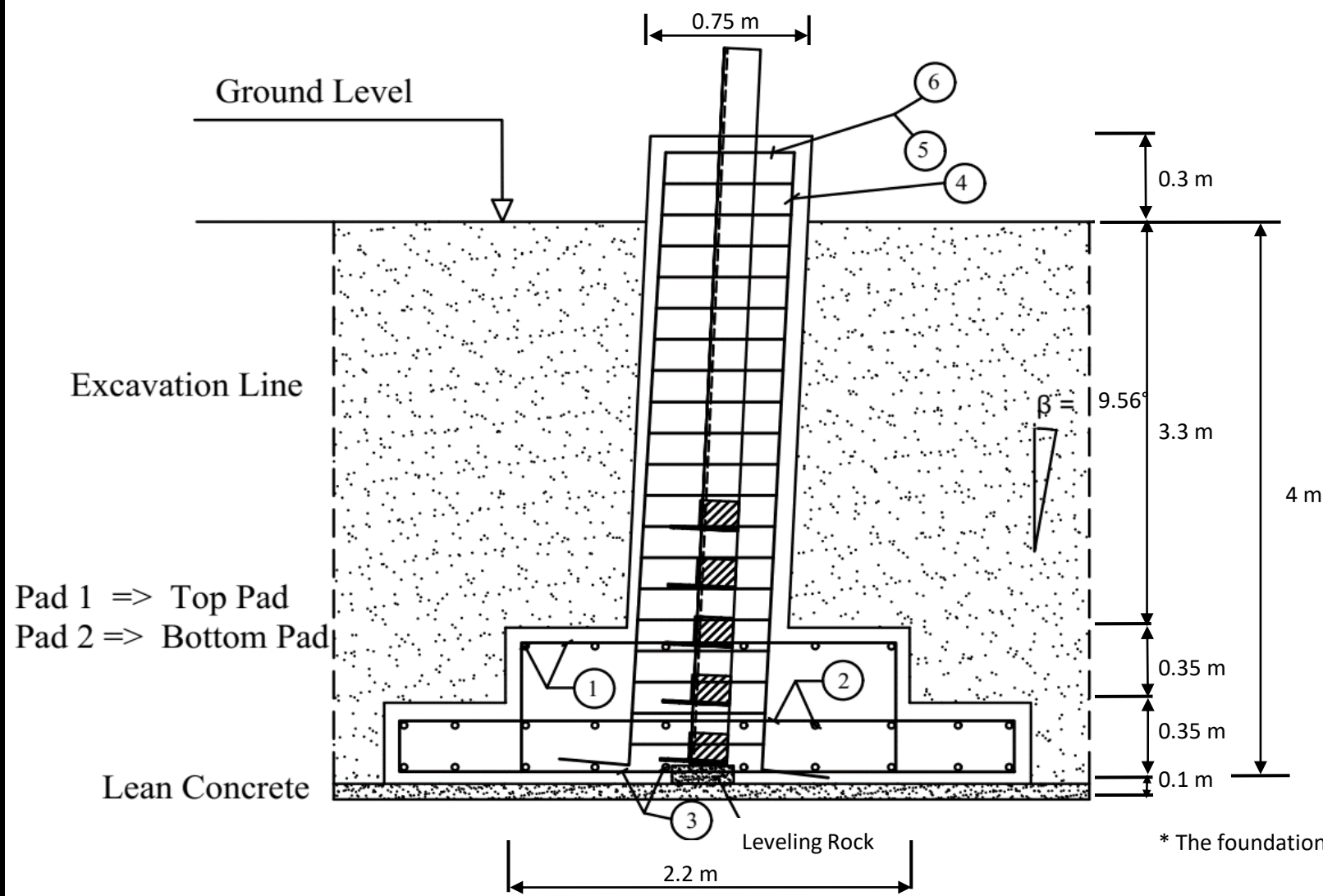
Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	8.0	31.8
Excavation	m3	90.6	362.3
Backfill	m3	82.6	330.5
Lean Concrete	m3	1.8	7.4
Formwork	m2	18.5	74.0
Reinforcement	kg	559.7	2238.8

Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	1.83	ton/m3
Backfill Density	1.83	ton/m3
Bearing Capacity of Soils	2.04	kg/cm2

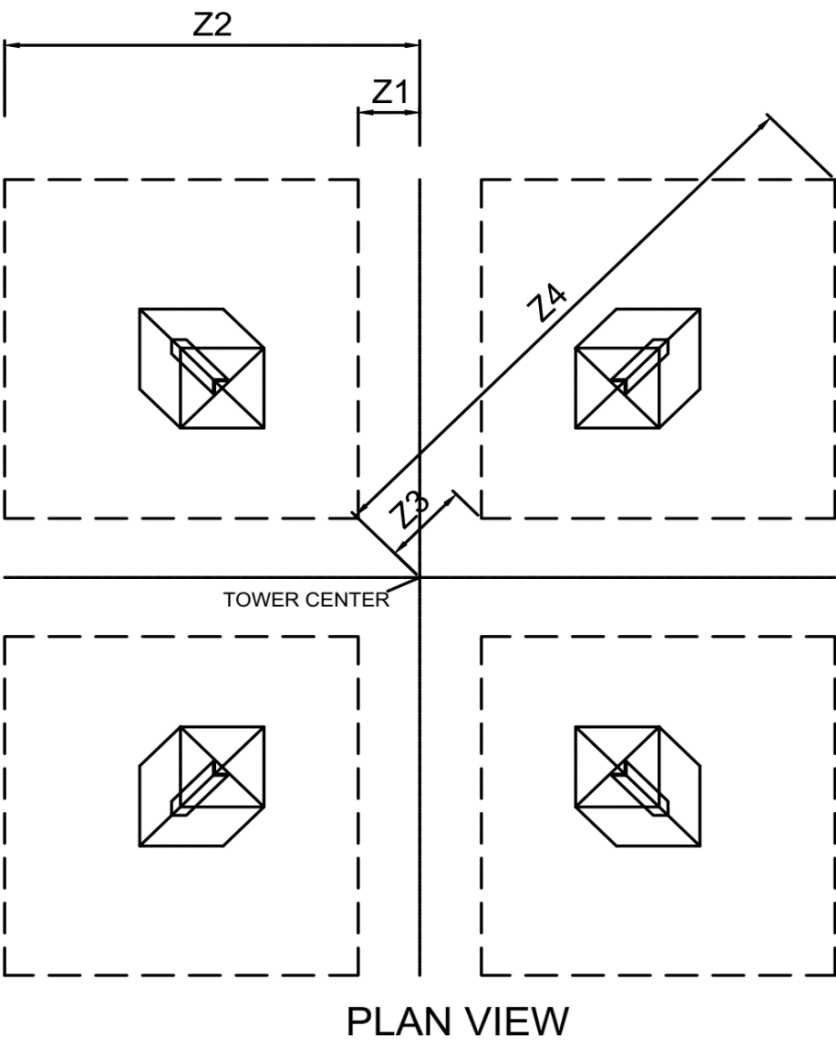
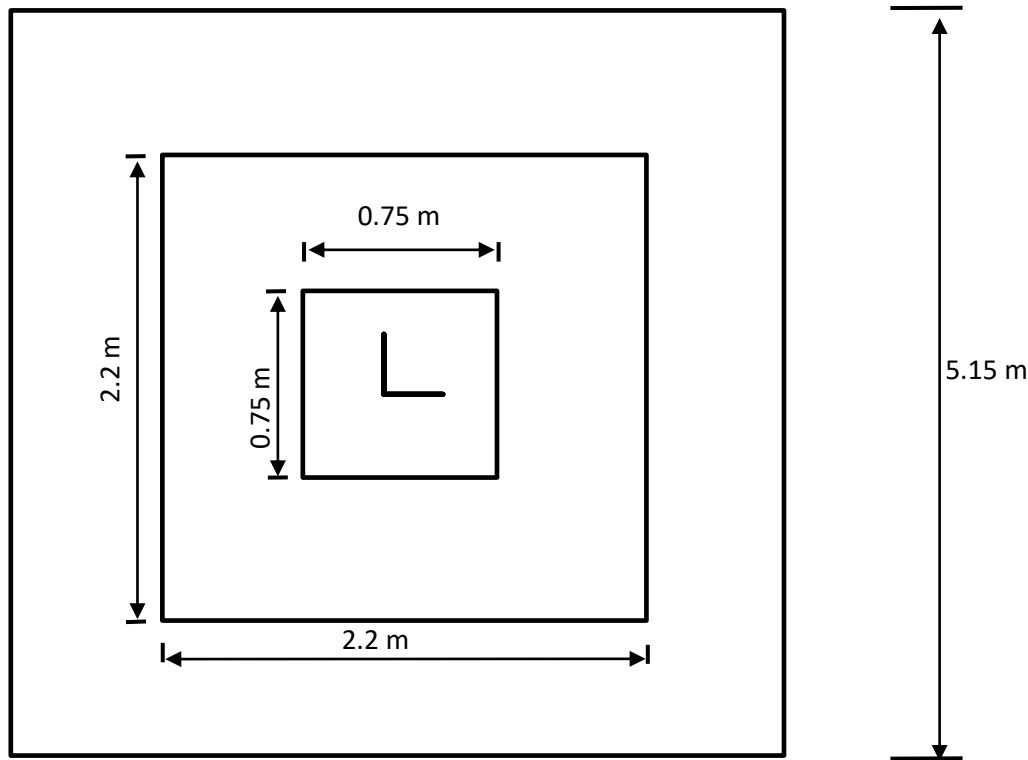
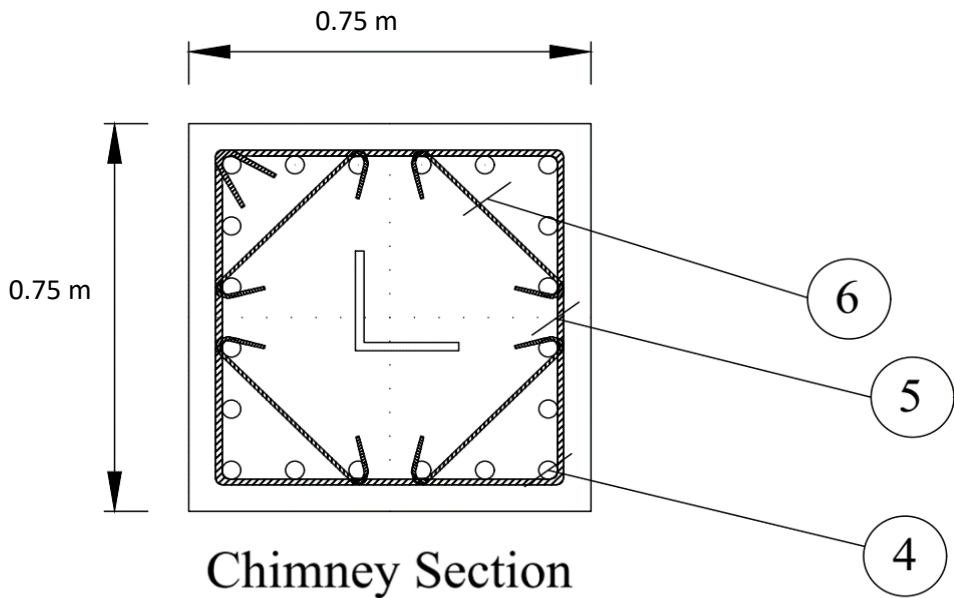
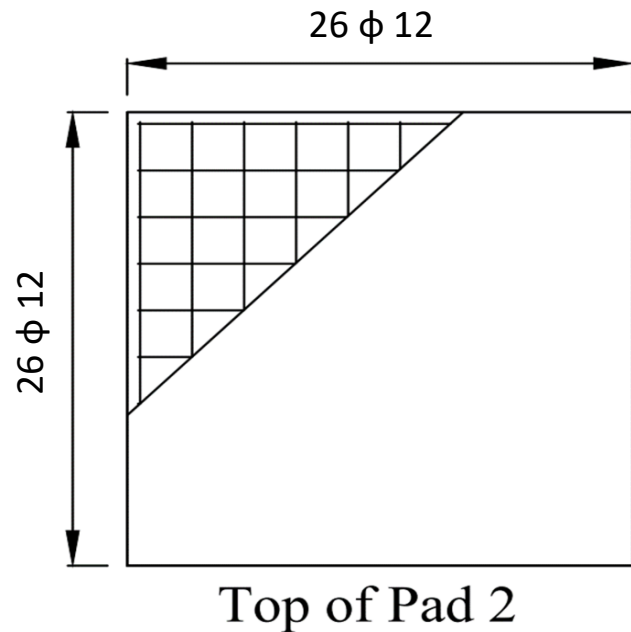
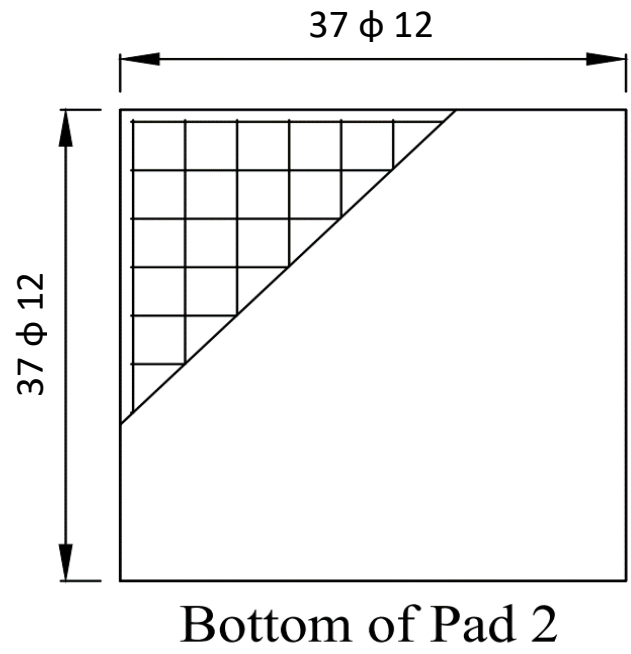
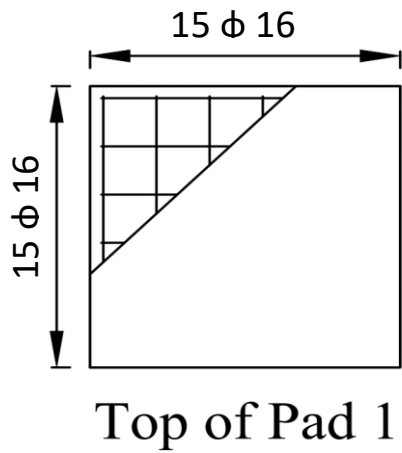
- NOTES :
- 1- Concrete Class : C20/25
 - 2- Steel Reinforcement Class : S500
 - 3- Concrete Cover : 75 mm
 - 4- Soil Layer Shall Be Compacted To Maintain Soil Density.
 - 5- Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - 6- In case of high soil resistance, filling shall be done using soil with low resistance.
 - 7- Concrete surface shall be covered with bitumen in case of aggressive soil conditions

* All dimensions and quantities shall be checked prior to construction			
1	Revised as per Consultant Comments	02.11.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de		 FICHTNER	
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com		 MİTAŞ ENERGY	
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭდი:
REVIEWED BY / განხილულია:			
DATE OF REVIEW / განხილის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT	Foundation Drawings of Tower Type	
DESIGNED BY / ავტორი:	D. Nezamolmolki	" 12A-MA "	
DRAWN BY / შემსრულებელი:	D. Nezamolmolki	Soil Type 4-Normal Soil-Dry	
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22	Pad & Chimney Foundation	
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
N.A.	7145A07-EG-FND-DWG-0609_01	1	7 of 10

Soil Type:	Type 4-Normal Soil-Submerge
Foundation Type:	Pad & Chimney
Tower Type:	12A-MA



Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1		345	16	5.45	30	163.5
2		570	12	5.06	52	263.2
3		500	12	4.44	74	328.6
4		455	16	7.19	20	143.8
5		270	8	1.06	29	30.9
6		50	8	0.20	116	22.9
SUM						952.8



BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	1525	6675	2157	9440
	-1.5	1778	6928	2514	9797
	+0	2030	7180	2872	10155
	+1.5	2283	7433	3229	10512
	+3	2536	7686	3586	10869
	+4.5	2788	7938	3944	11227
BE+0	+6	3041	8191	4301	11584
	-3	2030	7180	2872	10155
	-1.5	2283	7433	3229	10512
	+0	2536	7686	3586	10869
	+1.5	2788	7938	3944	11227
	+3	3041	8191	4301	11584
BE+3	+4.5	3294	8444	4658	11942
	+6	3547	8697	5016	12299
	-3	2536	7686	3586	10869
	-1.5	2788	7938	3944	11227
	+0	3041	8191	4301	11584
	+1.5	3294	8444	4658	11942
BE+6	+3	3547	8697	5016	12299
	+4.5	3799	8949	5373	12656
	+6	4052	9202	5730	13014
	-3	3041	8191	4301	11584
	-1.5	3294	8444	4658	11942
	+0	3547	8697	5016	12299
	+1.5	3799	8949	5373	12656
	+3	4052	9202	5730	13014
	+4.5	4305	9455	6088	13371
	+6	4557	9707	6445	13728

Dimensions (m)		
Width of Pad1	bp1 =	2.20
Width of Pad2	bp2 =	5.15
Height of Pad1	hp1 =	0.35
Height of Pad2	hp2 =	0.35
Width of Chimney	bc =	0.75
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	3.30
Depth of Pad	H =	4.00

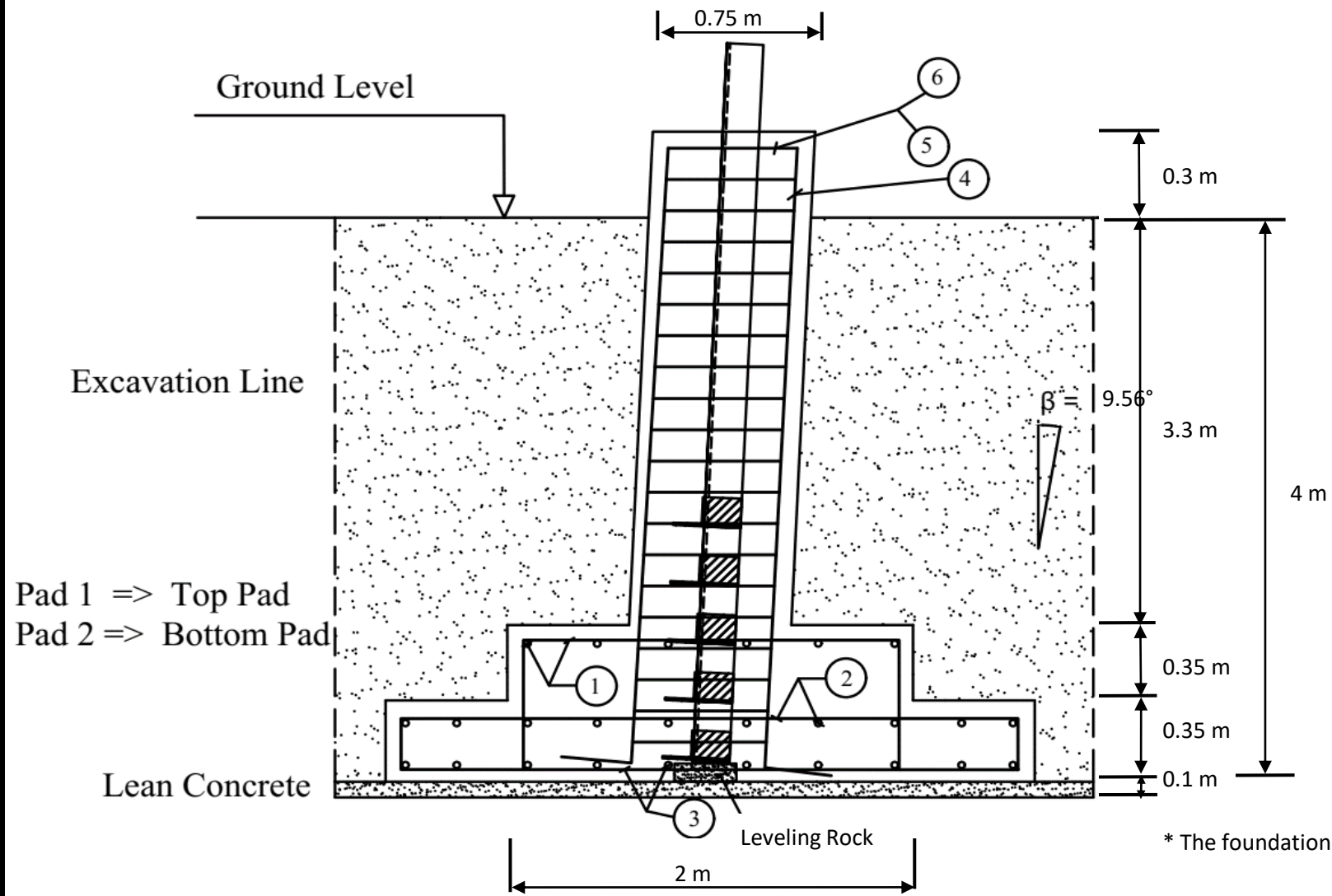
Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	13.0	52.0
Excavation	m3	155.1	620.3
Backfill	m3	142.1	568.3
Lean Concrete	m3	3.3	13.2
Formwork	m2	21.1	84.4
Reinforcement	kg	952.8	3811.4

Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	1.02	ton/m3
Backfill Density	1.02	ton/m3
Bearing Capacity of Soils	2.04	kg/cm2

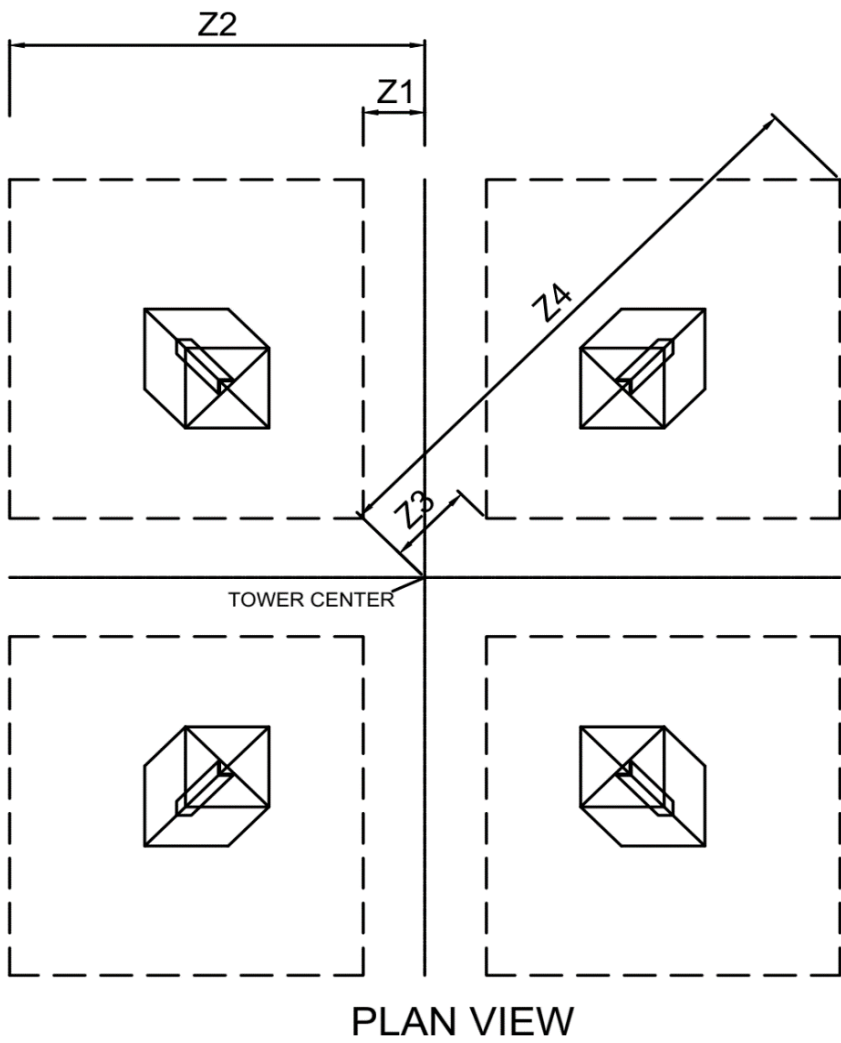
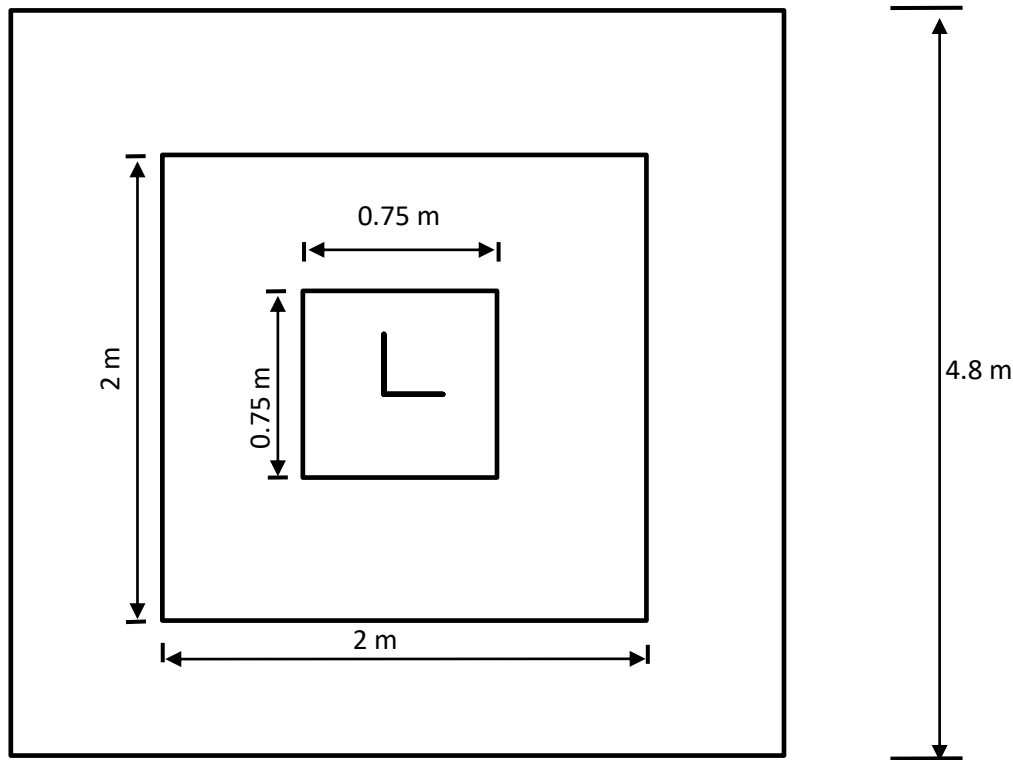
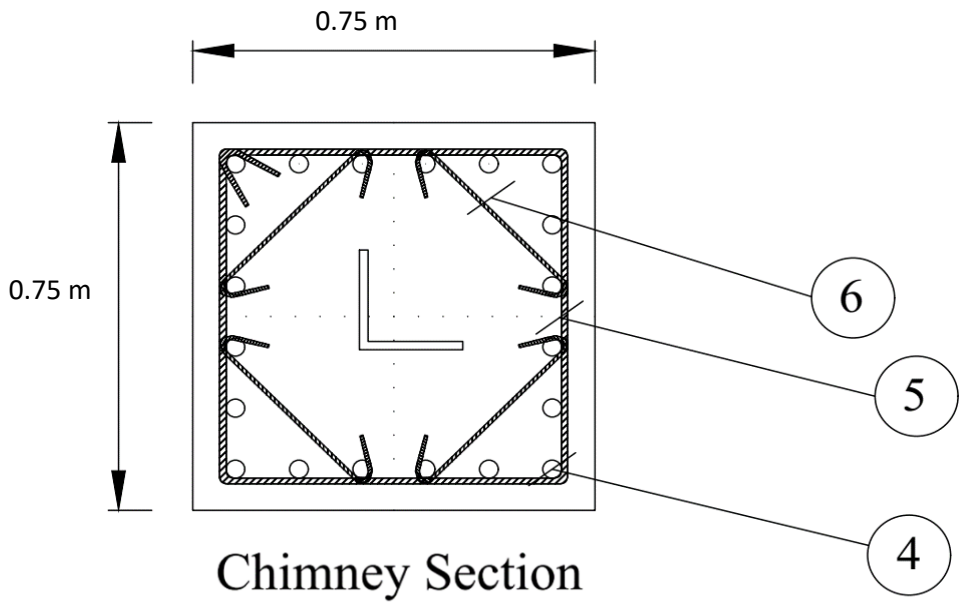
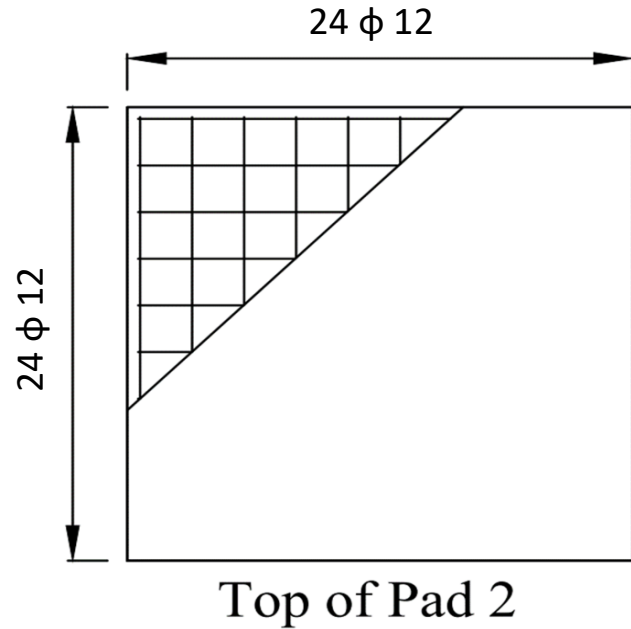
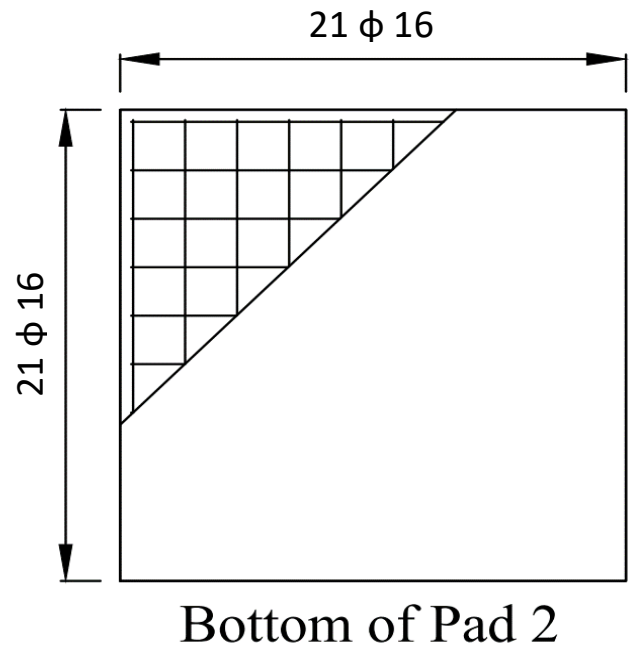
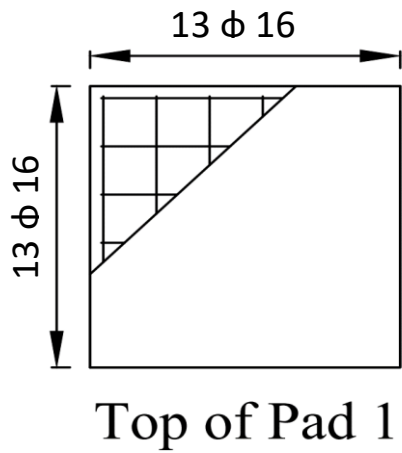
- NOTES :
- Concrete Class : C20/25
 - Steel Reinforcement Class : S500
 - Concrete Cover : 75 mm
 - Soil Layer Shall Be Compacted To Maintain Soil Density.
 - Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - In case of high soil resistance, filling shall be done using soil with low resistance.
 - Concrete surface shall be covered with bitumen in case of aggressive soil conditions

* All dimensions and quantities shall be checked prior to construction			
1	Revised as per Consultant Comments	02.11.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de			
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com			
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭდი:
REVIEWED BY / განხილულია:			
DATE OF REVIEW / განხილის თარიღი:			
APPROVED BY / დამტკიცებულია:		K.KARAGOZ	
CHECKED BY / შემოწმებულია:	H.O.BULUT	Foundation Drawings of Tower Type " 12A-MA "	
DESIGNED BY / ავტორი:	D. Nezamolmolki		
DRAWN BY / შემსრულებელი:	D. Nezamolmolki		
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22	Pad & Chimney Foundation	
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
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Soil Type:	Type 5-Poor Soil-Dry
Foundation Type:	Pad & Chimney
Tower Type:	12A-MA



Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1		325	16	5.14	26	133.5
2		535	12	4.75	48	228.0
3		465	16	7.35	42	308.6
4		455	16	7.19	20	143.8
5		270	8	1.06	29	30.9
6		50	8	0.20	116	22.9
SUM						867.7



BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	1700	6500	2404	9193
	-1.5	1953	6753	2762	9550
	+0	2205	7005	3119	9907
	+1.5	2458	7258	3476	10265
	+3	2711	7511	3834	10622
	+4.5	2963	7763	4191	10979
BE+0	+6	3216	8016	4548	11337
	-3	2205	7005	3119	9907
	-1.5	2458	7258	3476	10265
	+0	2711	7511	3834	10622
	+1.5	2963	7763	4191	10979
	+3	3216	8016	4548	11337
BE+3	+4.5	3469	8269	4906	11694
	+6	3722	8522	5263	12051
	-3	2711	7511	3834	10622
	-1.5	2963	7763	4191	10979
	+0	3216	8016	4548	11337
	+1.5	3469	8269	4906	11694
BE+6	+3	3722	8522	5263	12051
	+4.5	3974	8774	5620	12409
	+6	4227	9027	5978	12766
	-3	3216	8016	4548	11337
	-1.5	3469	8269	4906	11694
	+0	3722	8522	5263	12051

Dimensions (m)		
Width of Pad1	bp1 =	2.00
Width of Pad2	bp2 =	4.80
Height of Pad1	hp1 =	0.35
Height of Pad2	hp2 =	0.35
Width of Chimney	bc =	0.75
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	3.30
Depth of Pad	H =	4.00

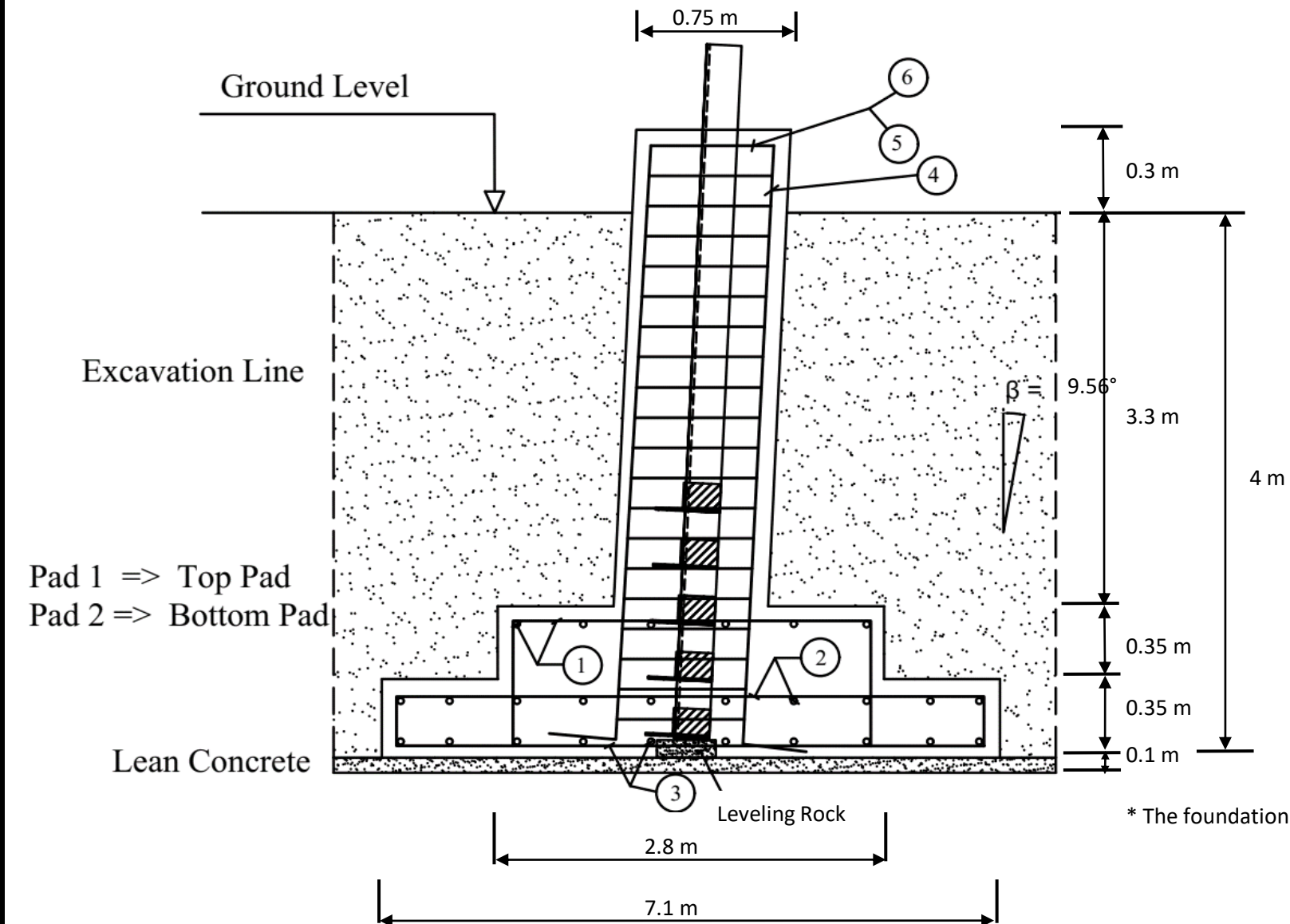
Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	11.5	46.0
Excavation	m3	137.9	551.7
Backfill	m3	126.4	505.7
Lean Concrete	m3	2.9	11.7
Formwork	m2	20.3	81.3
Reinforcement	kg	867.7	3470.7

Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	1.63	ton/m3
Backfill Density	1.63	ton/m3
Bearing Capacity of Soils	1.53	kg/cm2

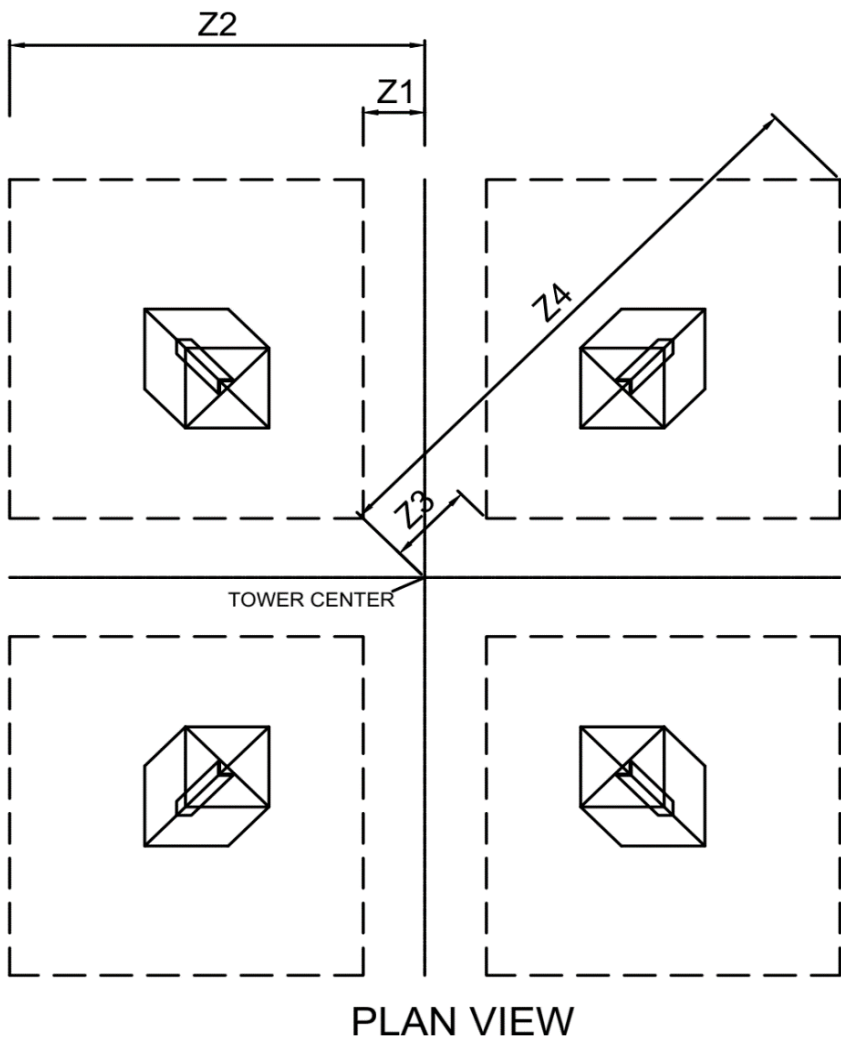
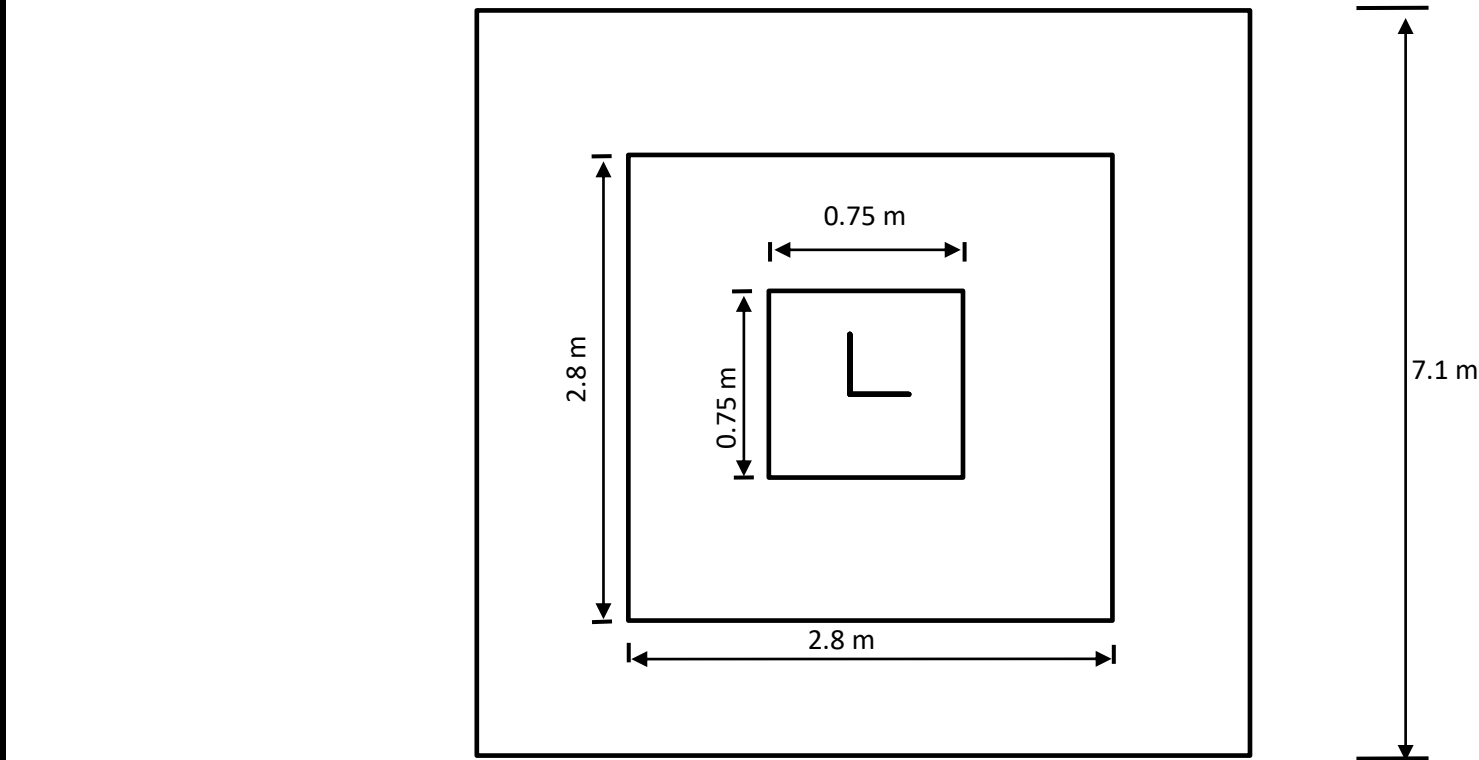
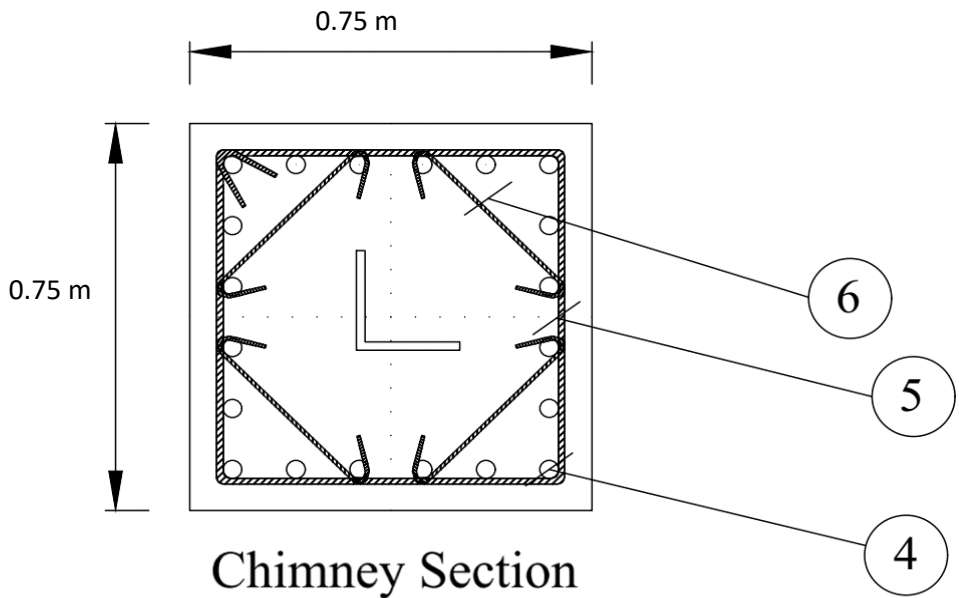
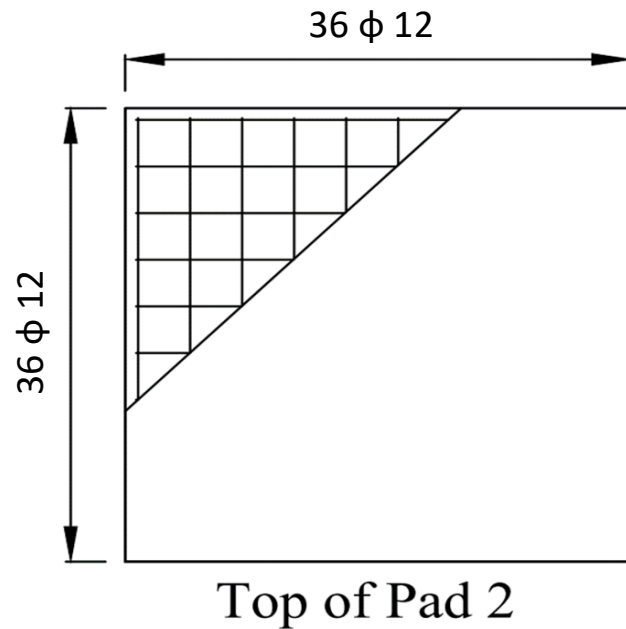
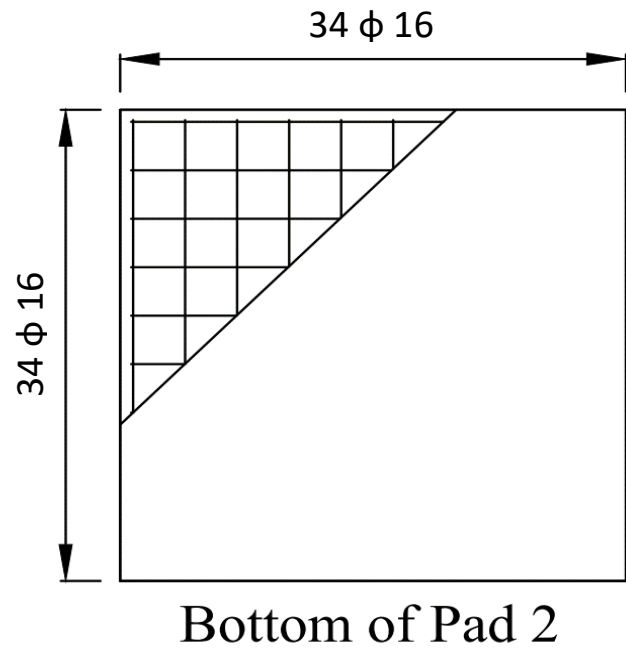
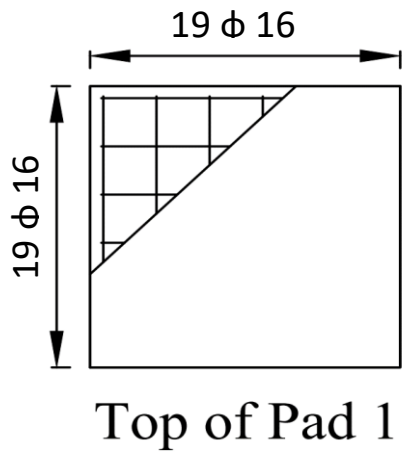
- NOTES :
- 1- Concrete Class : C20/25
 - 2- Steel Reinforcement Class : S500
 - 3- Concrete Cover : 75 mm
 - 4- Soil Layer Shall Be Compacted To Maintain Soil Density.
 - 5- Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - 6- In case of high soil resistance, filling shall be done using soil with low resistance.
 - 7- Concrete surface shall be covered with bitumen in case of aggressive soil conditions

* All dimensions and quantities shall be checked prior to construction			
1	Revised as per Consultant Comments	02.11.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de			
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com			
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭდი:
REVIEWED BY / განხილულია:			
DATE OF REVIEW / განხილის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT	Foundation Drawings of Tower Type	
DESIGNED BY / ავტორი:	D. Nezamolmolki	" 12A-MA "	
DRAWN BY / შემსრულებელი:	D. Nezamolmolki	Soil Type 5-Poor Soil-Dry	
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22	Pad & Chimney Foundation	
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
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Soil Type:	Type 5-Poor Soil-Submerge
Foundation Type:	Pad & Chimney
Tower Type:	12A-MA



Mark	Pattern	Length cm	Diameter mm	Unit Weight (kg)	QTY	Total Weight (kg)
1		405	16	6.40	38	243.2
2		765	12	6.79	72	489.1
3		695	16	10.98	68	746.7
4		455	16	7.19	20	143.8
5		270	8	1.06	29	30.9
6		50	8	0.20	116	22.9
SUM						1676.5



Dimensions (m)		
Width of Pad1	bp1 =	2.80
Width of Pad2	bp2 =	7.10
Height of Pad1	hp1 =	0.35
Height of Pad2	hp2 =	0.35
Width of Chimney	bc =	0.75
Height of Chimney above ground level	hc1 =	0.30
Height of Chimney under ground level	hc2 =	3.30
Depth of Pad	H =	4.00

Quantities			
Item	Volumes		
	Unit	Per Leg	Per Tower
Concrete	m3	22.4	89.7
Excavation	m3	269.0	1076.0
Backfill	m3	246.6	986.4
Lean Concrete	m3	5.9	23.7
Formwork	m2	24.7	98.6
Reinforcement	kg	1676.5	6706.1

Material and Soil Specifications		
Characteristic Compressive Strength of Concrete	20	Mpa
Characteristic Strength of Steel Rebar	500	Mpa
Natural Soil Density	0.82	ton/m3
Backfill Density	0.82	ton/m3
Bearing Capacity of Soils	0.82	kg/cm2

- NOTES :
- Concrete Class : C20/25
 - Steel Reinforcement Class : S500
 - Concrete Cover : 75 mm
 - Soil Layer Shall Be Compacted To Maintain Soil Density.
 - Sulphate resistant concrete shall be used in case of aggressive soil conditions.
 - In case of high soil resistance, filling shall be done using soil with low resistance.
 - Concrete surface shall be covered with bitumen in case of aggressive soil conditions

BODY	LEG EXTENSIONS	Z1	Z2	Z3	Z4
		mm	mm	mm	mm
BE-3	-3	550	7650	778	10819
	-1.5	803	7903	1135	11176
	+0	1055	8155	1493	11534
	+1.5	1308	8408	1850	11891
	+3	1561	8661	2207	12248
	+4.5	1813	8913	2565	12606
BE+0	+6	2066	9166	2922	12963
	-3	1055	8155	1493	11534
	-1.5	1308	8408	1850	11891
	+0	1561	8661	2207	12248
	+1.5	1813	8913	2565	12606
	+3	2066	9166	2922	12963
BE+3	+4.5	2319	9419	3279	13320
	+6	2572	9672	3637	13678
	-3	1561	8661	2207	12248
	-1.5	1813	8913	2565	12606
	+0	2066	9166	2922	12963
	+1.5	2319	9419	3279	13320
BE+6	+3	2572	9672	3637	13678
	+4.5	2824	9924	3994	14035
	+6	3077	10177	4351	14392
	-3	2066	9166	2922	12963
	-1.5	2319	9419	3279	13320
	+0	2572	9672	3637	13678
BE+6	+1.5	2824	9924	3994	14035
	+3	3077	10177	4351	14392
	+4.5	3330	10430	4709	14750
	+6	3582	10682	5066	15107

* All dimensions and quantities shall be checked prior to construction			
1	Revised as per Consultant Comments	02.11.22	D.Nz
0	First Submission	21.07.22	D.Nz
REV./ რედაქცია	DESCRIPTION/ აღწერილობა	DATE/ თარიღი	BY/ ვის მიერ
PROJECT NAME / პროექტის დასახელება: Open Programme Extension of the Transmission Network II BMZ No. 2015 68 286 Contract Identification No. KfW/DSI/OHL-TD-Lot 2			
EMPLOYER / დამკვეთი: JSC Georgian State Electrosystem (GSE) Baratashvili Street, Tbilisi, Georgia, 0105 info@gse.com.ge			
ENGINEER / ინჟინერი : Fichtner GmbH & Co. KG Sarweystrasse 370191 Stuttgart / Germany info@fichtner.de			
CONTRACTOR / კონტრაქტორი : Mitas Energy and Metal Constuction Inc. Eski Güvercinlik Yolu No: 113 - Gazi Ankara / Turkey info@mitastower.com			
APPROVAL AREA / შეთანხმებულია		STATUS / სტატუსი AP ☐ AC ☐ NA ☐	STAMP / ბეჭედი:
REVIEWED BY / განხილულია:			
DATE OF REVIEW / განხილის თარიღი:			
APPROVED BY / დამტკიცებულია:	K.KARAGOZ		
CHECKED BY / შემოწმებულია:	H.O.BULUT	Foundation Drawings of Tower Type	
DESIGNED BY / ავტორი:	D. Nezamolmolki	" 12A-MA "	
DRAWN BY / შემსრულებელი:	D. Nezamolmolki	Soil Type 5-Poor Soil-Submerge	
DATE OF ISSUE / გამოცემის თარიღი:	21.07.22	Pad & Chimney Foundation	
SCALE/ მასშტაბი	DOC NO./ დოკუმენტის ნომერი	REV./ რედაქცია	PAGE/ გვერდი
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