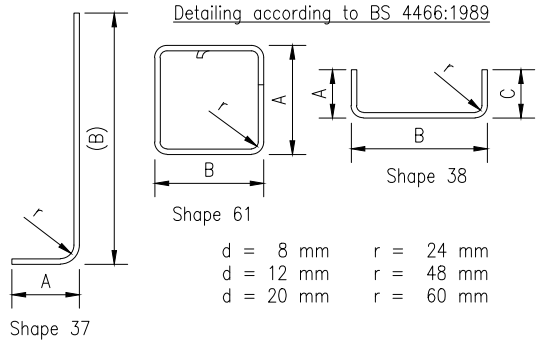
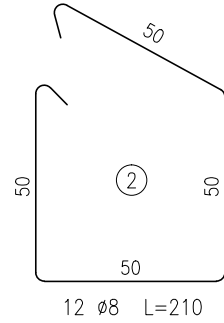
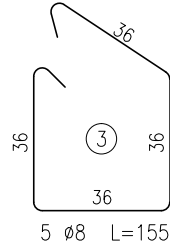
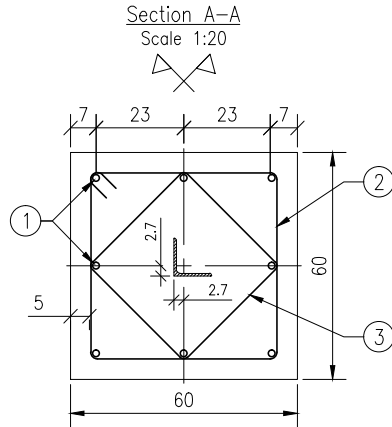


BASE WIDTH [mm]		
TOWER TYPE	BODY EXT.	T
M	+0	4800
	+3	5400
	+6	6000



BAR SCHEDULE – STANDARD CHIMNEY									
Member	Bar mark	Type and size	No.of bars	Length of each bar mm	Shape code	A mm	B mm	C mm	D mm E/R mm
Chimney	1	X20	8	3200	37	350	2850	–	–
Chimney	2	X8	12	2100	61	500	500	–	–
Chimney	3	X8	5	1550	61	360	360	–	–
Pad	4	X12	36	2100	38	200	1700	200	–
SUMMARY OF MATERIALS AND WORKS (ONE LEG)						ø20	ø12	ø8	
Total length per dia. :						m	25.6	75.6	33.0
Unit weight of reinforcing steel :						kg	2.467	0.888	0.395
Total weight of reinforcing steel (per dia) :						kg	63.2	67.1	13.0
Total weight of reinforcement :								143.3	Kg
Excavation :						8.165 m³	Concrete :	1.988 m³	
Backfilling :						6.352 m³	Blinding :	0.227 m³	

BAR SCHEDULE – EXTENDED CHIMNEY (+50cm)									
Member	Bar mark	Type and size	No.of bars	Length of each bar mm	Shape code	A mm	B mm	C mm	D mm E/R mm
Chimney	1	X20	8	3750	37	350	3360	–	–
Chimney	2	X8	14	2100	61	500	500	–	–
Chimney	3	X8	6	1550	61	360	360	–	–
Pad	4	X12	36	2100	38	200	1700	200	–
SUMMARY OF MATERIALS AND WORKS (ONE LEG)						ø20	ø12	ø8	
Total length per dia. :						m	30.0	75.6	38.7
Unit weight of reinforcing steel :						kg	2.467	0.888	0.395
Total weight of reinforcing steel (per dia) :						kg	74.0	67.1	15.3
Total weight of reinforcement :								156.4	Kg
Excavation :						8.165 m³	Concrete :	2.170 m³	
Backfilling :						6.352 m³	Blinding :	0.227 m³	

#### NOTES:

##### GENERAL NOTES:

- DIMENSIONS IN cm OR AS SPECIFIED.
- STUB ANGLE DRAWING NO. KC06.0040\_OHL\_STR\_22-05-03 sh.016.
- DIMENSION "T" TO BE CHECKED WITH TOWER'S ERECTION DRAWINGS.
- THIS FOUNDATION SHALL BE USED IN LOCATIONS WHERE THE ALLOWABLE BEARING CAPACITY OF THE SOIL IS AT LEAST 2 daN/cm², ACCORDING TO GEOTECHNICAL SURVEY REPORT.

##### FOUNDATION DESIGN PARAMETERS:

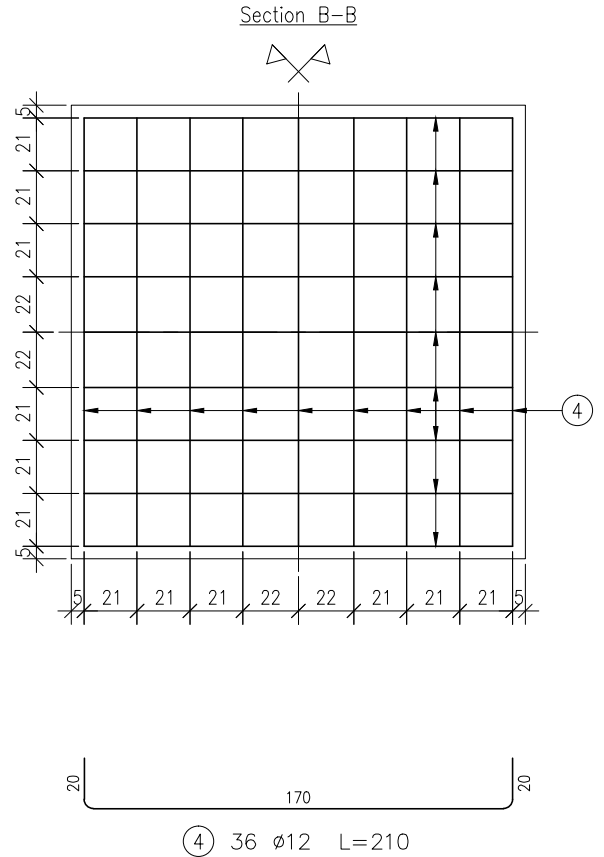
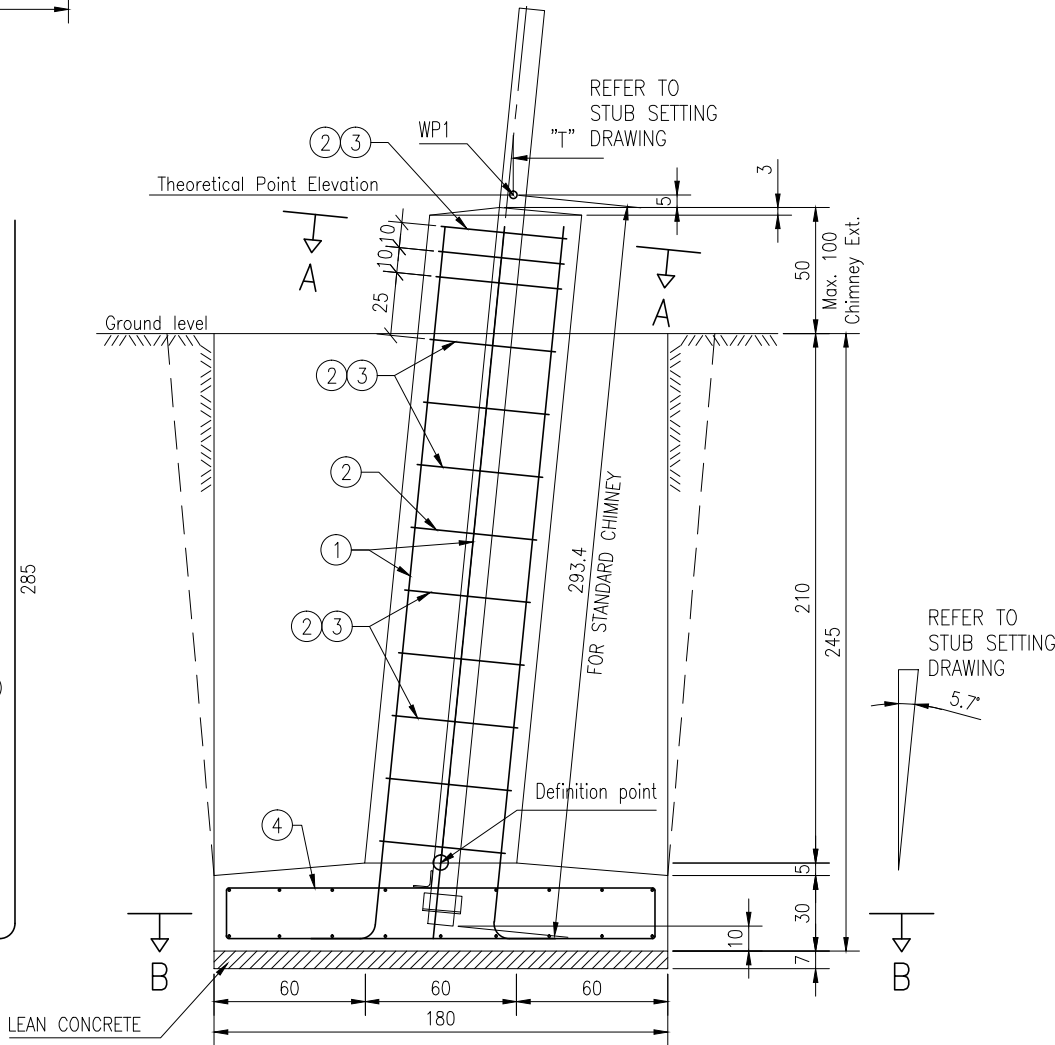
- CONSIDERED WATER LEVEL IS ALWAYS BELOW FOUNDATION.
- SOIL TYPE 1:
  - SOIL ANGLE OF REPOSE: 30°.
  - SOIL UNIT WEIGHT: 1600 kg/m³.
  - ULTIMATE BEARING CAPACITY: 6 daN/cm².
  - ALLOWABLE BEARING CAPACITY: 2 daN/cm².
- LOADING AS SHOWN IN TOWER DESIGN CALCULATION.
- IF ANY OF THE ABOVE ASSUMPTIONS ARE FOUND TO BE INVALID IMMEDIATELY CEASE CONSTRUCTION AND CONTACT THE ENGINEER.



##### CONCRETE MATERIAL:

- MINIMUM 28 DAYS COMPRESSIVE STRENGTH: 25 N/mm².
- CONCRETE COVER: 5 cm.
- LEAN CONCRETE SHALL HAVE THE FOLLOWING RATIO OF CEMENT : FINE AGGREGATE : COARSE AGGREGATE = 1 : 3 : 5, MEASURED BY VOLUME.

##### REINFORCING STEEL MATERIAL:

- φ = REBAR DIAMETER IN mm.
- REINFORCED CONCRETE DESIGN, BAR SCHEDULE, DETAILING AND EXTENSIONS OF REBARS WILL BE ACCORDING TO BS 8110 AND BS 4466. REBAR EXTENSION BY OVERLAPPING ON 50 DIA.
- MAIN REINFORCEMENT SHALL BE DEFORMED BARS OF HIGH TENSILE STEEL WITH MINIMUM YIELD STRENGTH: F<sub>y</sub>=500 N/mm².
- LINKS SHALL BE OF PLAIN BARS OF MILD STEEL WITH MINIMUM YIELD STRENGTH: F<sub>y</sub>=240 N/mm².



01	27/05/13	First issue;			
			PG	SI	VR
REV.	dd/mm/yy	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED
<div><div></div><div><div>CG Holdings Belgium NV</div><div>Systems Division</div><div>Antwerpssteenweg 167, B-2800 Mechelen</div><div>Tel. : +32(0)15/283 333 Fax : +32(0)15/283 491</div><div>www.cgglobal.com</div></div></div>			CLIENT:		
			MINISTRY OF ENERGY - REPUBLIC OF KENYA		
<div><div>ISO Symbol:</div><div></div><div><div>SCALE: 1/30</div><div>LAYOUT: A3</div></div></div>			DRAWING TITLE :		
			132 kV OHL Nanyuki - Isiolo - Meru Foundation Type MF1 for Tower Type M		
THIS DRAWING SHALL NOT BE COPIED,REPRODUCED,TRANSMITTED OR GRANTED TO THIRD PARTIES WITHOUT OUR PRIOR AGREEMENT			DRAWING No.: 100008-L0-DG-CW06		