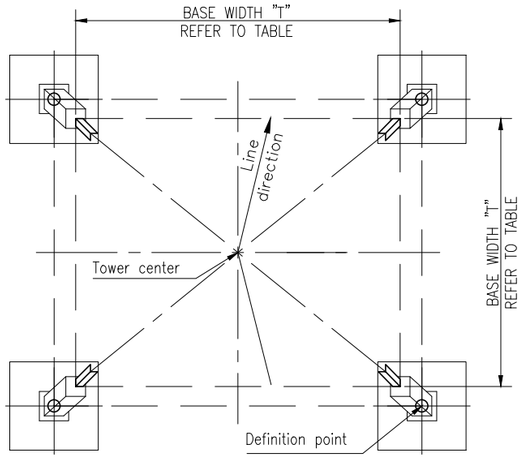
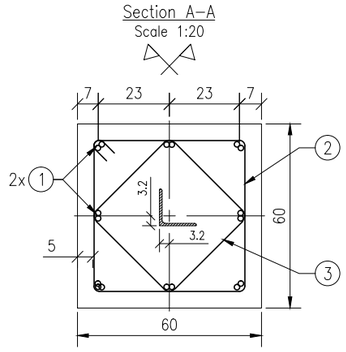
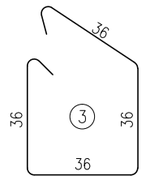
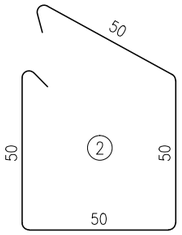


BASE WIDTH [mm]		
TOWER TYPE	BODY EXT.	T
H and T	+0	5570
	+3	6230
	+6	6890

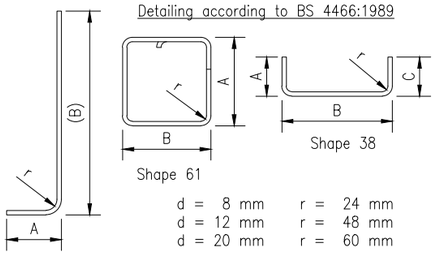


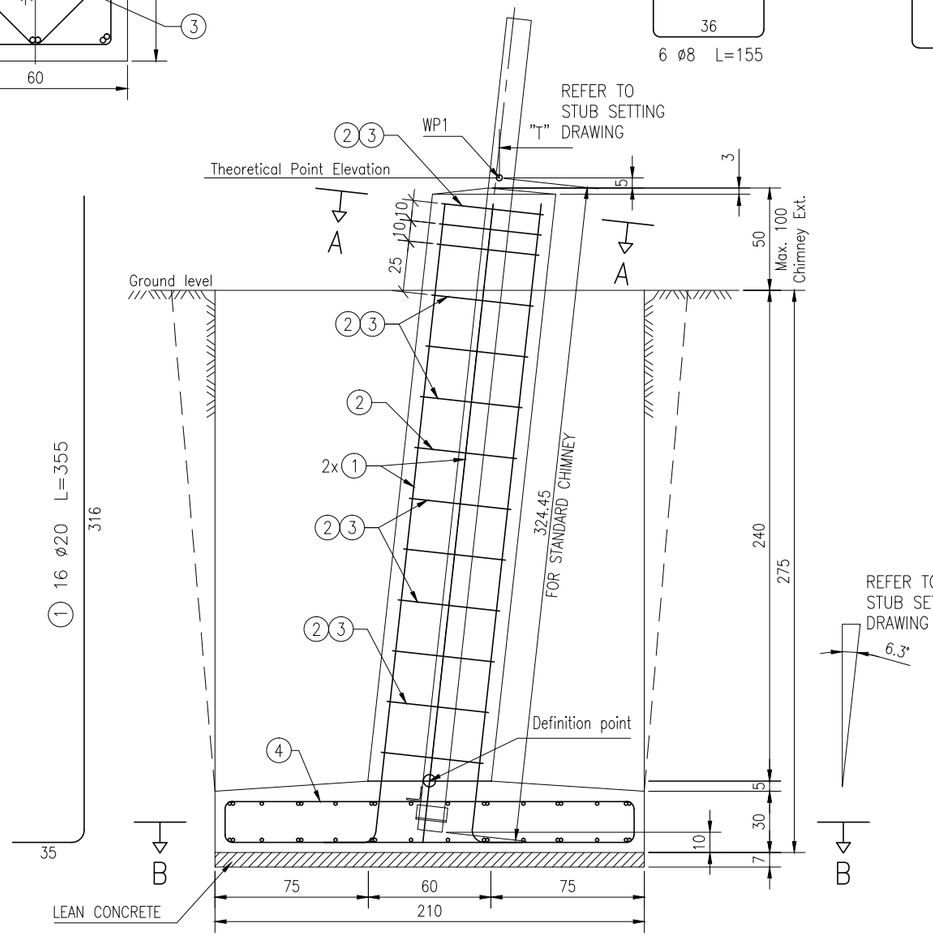


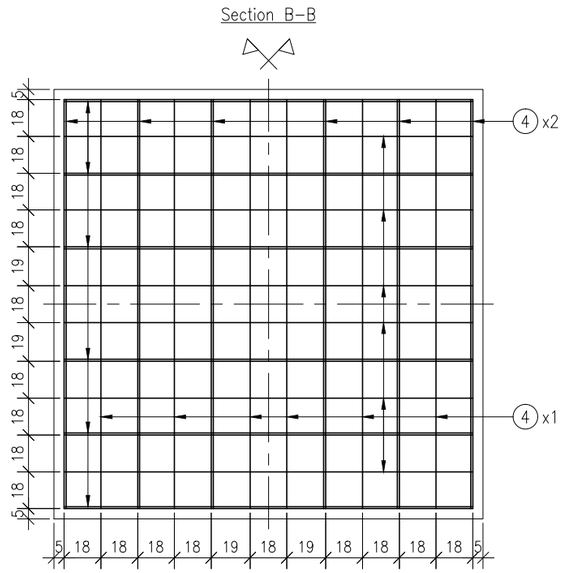
6 ø8 L=155



13 ø8 L=210







4 72 ø12 L=240

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	16	3550	37	350	3160	–	–	–
Chimney	2	X8	13	2100	61	500	500	–	–	–
Chimney	3	X8	6	1550	61	360	360	–	–	–
Pad	4	X12	72	2400	38	200	2000	200	–	–

SUMMARY OF MATERIALS AND WORKS (ONE LEG)			ø20	ø12	ø8	
Total length per dia. :		m	56.8	172.8	36.6	
Unit weight of reinforcing steel :		kg	2.467	0.888	0.395	
Total weight of reinforcing steel (per dia) :		kg	140.1	153.4	14.5	
Total weight of reinforcement :					308.0 Kg	
Excavation :	12.436 m^3	Concrete :		2.473 m^3		
Backfilling :	10.138 m^3	Blinding :		0.309 m^3		

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	16	4050	37	350	3670	–	–	–
Chimney	2	X8	15	2100	61	500	500	–	–	–
Chimney	3	X8	7	1550	61	360	360	–	–	–
Pad	4	X12	72	2400	38	200	2000	200	–	–

SUMMARY OF MATERIALS AND WORKS (ONE LEG)			ø20	ø12	ø8	
Total length per dia. :		m	64.8	172.8	42.4	
Unit weight of reinforcing steel :		kg	2.467	0.888	0.395	
Total weight of reinforcing steel (per dia) :		kg	159.9	153.4	16.7	
Total weight of reinforcement :					330.0 Kg	
Excavation :	12.436 m^3	Concrete :		2.655 m^3		
Backfilling :	10.138 m^3	Blinding :		0.309 m^3		

NOTES:

GENERAL NOTES:
1. DIMENSIONS IN cm OR AS SPECIFIED.
2. STUB ANGLE DRAWING NO. KC06.0040_OHL_STR_22-05-04 sh.013.
3. DIMENSION "T" TO BE CHECKED WITH TOWER'S ERECTION DRAWINGS.
4. THIS FOUNDATION SHALL BE USED IN LOCATIONS WHERE THE ALLOWABLE BEARING CAPACITY OF THE SOIL IS AT LEAST 2 daN/cm^2, ACCORDING TO GEOTECHNICAL SURVEY REPORT.

FOUNDATION DESIGN PARAMETERS:
1. CONSIDERED WATER LEVEL IS ALWAYS BELOW FOUNDATION.
2. SOIL TYPE 1:
   2.1. SOIL ANGLE OF REPOSE: 30°.
   2.2. SOIL UNIT WEIGHT: 1600 kg/m^3.
   2.3. ULTIMATE BEARING CAPACITY: 6 daN/cm^2.
   2.4. ALLOWABLE BEARING CAPACITY: 2 daN/cm^2.
3. LOADING AS SHOWN IN TOWER DESIGN CALCULATION.
4. IF ANY OF THE ABOVE ASSUMPTIONS ARE FOUND TO BE INVALID IMMEDIATELY CEASE CONSTRUCTION AND CONTACT THE ENGINEER.

CONCRETE MATERIAL:
1. MINIMUM 28 DAYS COMPRESSIVE STRENGTH: 25 N/mm^2.
2. CONCRETE COVER: 5 cm.
3. LEAN CONCRETE SHALL HAVE THE FOLLOWING RATIO OF CEMENT : FINE AGGREGATE : COARSE AGGREGATE = 1 : 3 : 5, MEASURED BY VOLUME.

REINFORCING STEEL MATERIAL:
1. ø = REBAR DIAMETER IN mm.
2. 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.
3. MAIN REINFORCEMENT SHALL BE DEFORMED BARS OF HIGH TENSILE STEEL WITH MINIMUM YIELD STRENGTH: F_y=500 N/mm^2.
4. LINKS SHALL BE OF PLAIN BARS OF MILD STEEL WITH MINIMUM YIELD STRENGTH: F_y=240 N/mm^2.

REV.	dd/mm/yy	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED
01	29/05/13	First issue;	PG	SI	VR

CG Holdings Belgium NV
Systems Division
Antwerpsesteenweg 167, B-2800 Mechelen
Tel. : +32(0)15/283 333 Fax : +32(0)15/283 491
www.cgglobal.com

ISO Symbol: | SCALE: 1/30 | LAYOUT: A3

CLIENT:
MINISTRY OF ENERGY - REPUBLIC OF KENYA

DRAWING TITLE :
132 kV OHL Nanyuki - Isiolo - Meru
Foundation Type HTF1 for Tower Types H and T

DRAWING No.: 100008-L0-DG-CW09