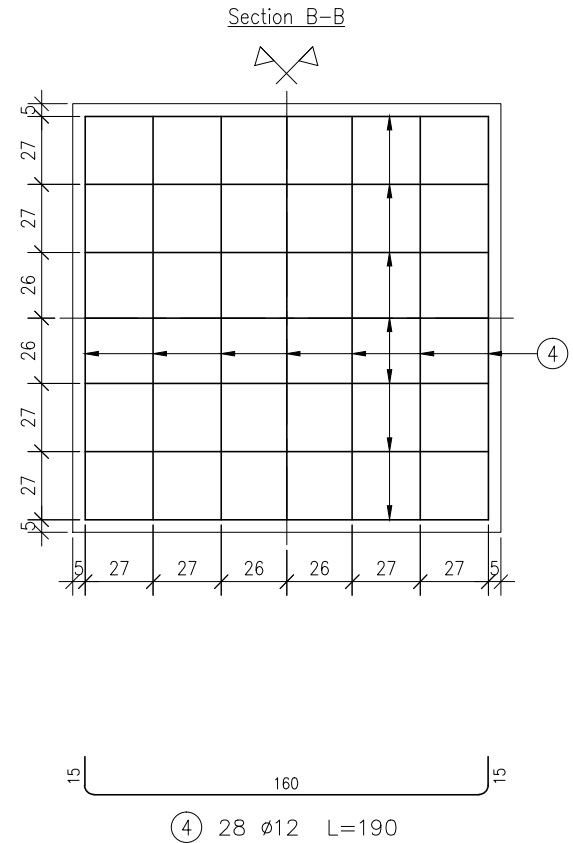
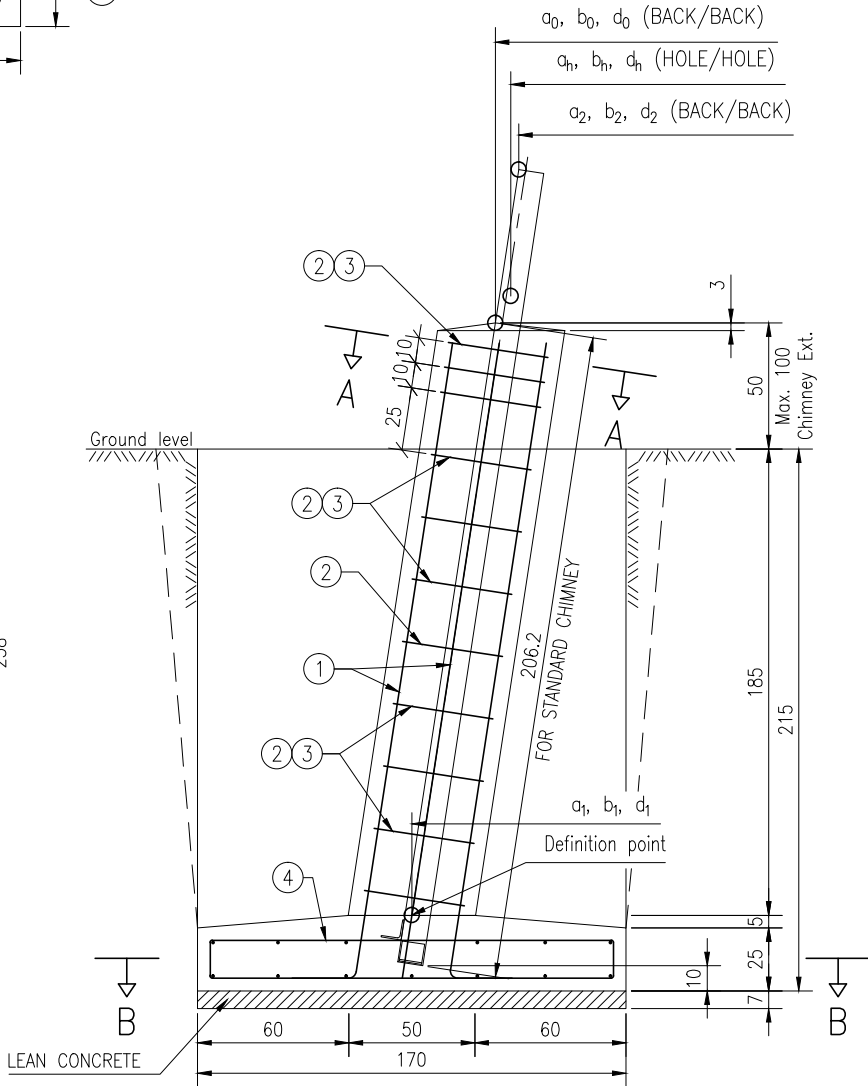


Foundation control dimensions without chimney extension [cm]												
$a_0/2$	$b_0/2$	$d_0/2$	$a_1/2$	$b_1/2$	$d_1/2$	$a_2/2$	$b_2/2$	$d_2/2$	$a_h/2$	$b_h/2$	$d_h/2$	
425.0	425.0	601.0	458.2	457.5	647.5	417.1	417.2	589.9	419.3	419.3	592.9	



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	X16	8	2850	37	250	2580	–	–
Chimney	2	X8	11	1700	61	400	400	–	–
Chimney	3	X8	5	1300	61	290	290	–	–
Pad	4	X12	28	1900	38	150	1600	150	–
SUMMARY OF MATERIALS AND WORKS (ONE LEG)						Ø16	Ø12	Ø8	
Total length per dia. :						m	22.8	53.2	25.2
Unit weight of reinforcing steel :						kg	1.579	0.888	0.395
Total weight of reinforcing steel (per dia) :						kg	36.0	47.2	10.0
Total weight of reinforcement :									93.2 Kg
Excavation :						6.416 m³	Concrete :	1.385 m³	
Backfilling :						5.154 m³	Blinding :	0.202 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	X16	8	3350	37	250	3100	–	–
Chimney	2	X8	13	1700	61	400	400	–	–
Chimney	3	X8	5	1300	61	290	290	–	–
Pad	4	X12	28	1900	38	150	1600	150	–
SUMMARY OF MATERIALS AND WORKS (ONE LEG)						Ø16	Ø12	Ø8	
Total length per dia. :						m	26.8	53.2	28.6
Unit weight of reinforcing steel :						kg	1.579	0.888	0.395
Total weight of reinforcing steel (per dia) :						kg	42.3	47.2	11.3
Total weight of reinforcement :									100.8 Kg
Excavation :						6.416 m³	Concrete :	1.513 m³	
Backfilling :						5.154 m³	Blinding :	0.202 m³	

#### NOTES:

##### GENERAL NOTES:

- DIMENSIONS IN cm OR AS SPECIFIED.
- STUB ANGLE DRAWING NO. 100008-L1-DG-ST11.
- DIMENSION  $a_0, b_0, d_0, a_2, b_2, d_2, a_h, b_h, d_h$  TO BE CHECKED WITH TOWER'S ERECTION DRAWINGS.
- THIS FOUNDATION SHALL BE USED IN LOCATION WHERE THE ALLOWABLE BEARING CAPACITY OF THE SOIL IS BETWEEN 1.3 daN/cm<sup>2</sup> AND 2 daN/cm<sup>2</sup>, ACCORDING TO GEOTECHNICAL SURVEY REPORT.

##### FOUNDATION DESIGN PARAMETERS:


- CONSIDERED WATER LEVEL IS ALWAYS BELOW FOUNDATION.
- SOIL TYPE 2:
  - SOIL ANGLE OF REPOSE: 20°.
  - SOIL UNIT WEIGHT: 1500 kg/m<sup>3</sup>.
  - ULTIMATE BEARING CAPACITY: 4 daN/cm<sup>2</sup>.
  - ALLOWABLE BEARING CAPACITY: 1.3 daN/cm<sup>2</sup>.
- 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/mm<sup>2</sup>.
- 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:

- Ø = 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:  $F_y=500$  N/mm<sup>2</sup>.
- LINKS SHALL BE OF PLAIN BARS OF MILD STEEL WITH MINIMUM YIELD STRENGTH:  $F_y=240$  N/mm<sup>2</sup>.

00	01/10/14	First issue;			
REV.	dd/mm/yy	REVISION DESCRIPTION	PG	SI	VR
			DRAWN	CHECKED	APPROVED
 <b>CG Holdings Belgium NV</b> Systems Division Antwerpsesteenweg 167, B-2800 Mechelen Tel. : +32(0)15/283 333 Fax : +32(0)15/283 491 www.cgglobal.com			CLIENT: <b>MINISTRY OF ENERGY - REPUBLIC OF KENYA</b>		
ISO Symbol:  SCALE: 1/30 LAYOUT: A3			DRAWING TITLE : <b>132 kV OHL Nanyuki - Isiolo - Meru</b> Foundation Type 3SF2 for Tower Type 3S		
THIS DRAWING SHALL NOT BE COPIED, REPRODUCED, TRANSMITTED OR GRANTED TO THIRD PARTIES WITHOUT OUR PRIOR AGREEMENT			DRAWING No.: 100008-L1-DG-CW01		