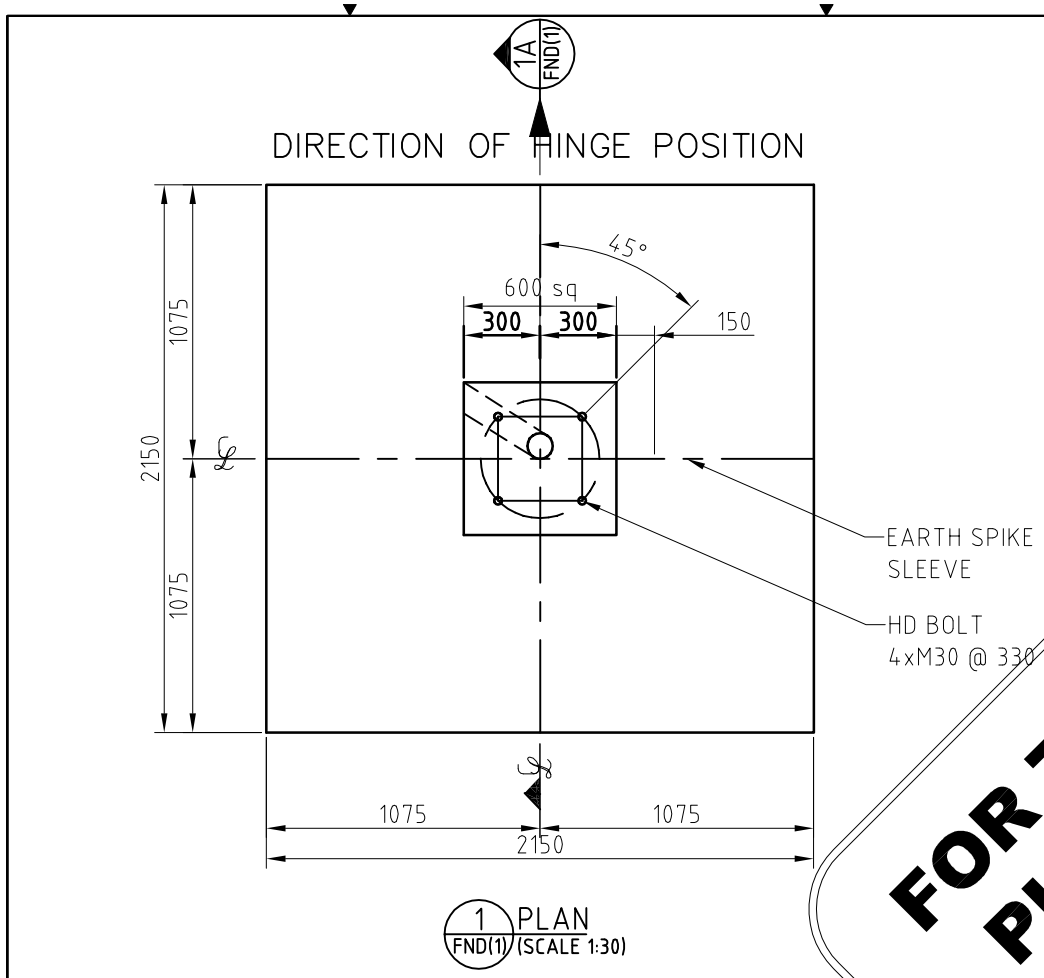
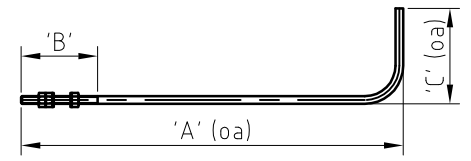
FOUNDATION DETAILS



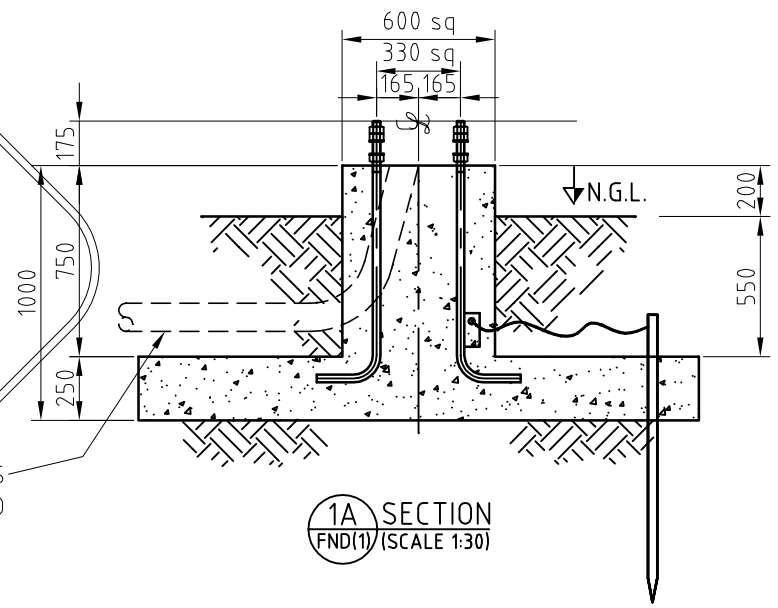
1 PLAN FND(1) (SCALE 1:30)

MARK	No. OFF	Diam. (D)	Total Length	A	B	C
1	4	M30	1200	1025	200	250



3 DETAIL FND(1) (SCALE 1:20)

HD BOLT SCHEDULE



1A SECTION FND(1) (SCALE 1:30)

FOR TENDER PURPOSES ONLY!

UNIT		REINFORCEMENT					BENDING DIMENSIONS FOR SHAPE CODES (SABS 82)					
MARK	NO. OFF	BAR MK.	TYPE Ø (mm)	NO. IN EACH	TOTAL	Length (mm) *	Shape Code	A**	B**	C**	D**	E** or r**
SLAB	1	01	Y10	36	36	2300	35	2050				
SLAB	1	02	R10	9	9	1070	83	400	120	250	250	
PLINTH	1	03	Y16	8	8	1500	54	400	870	300		
PLINTH	1	04	R12	5	5	2010	60	500	500			
PLINTH	1	05	Y12	2	2	740	35	475				

MASSES (kg)	TYPE	SIZE 10	12	16	20	25	Total
	Y	51.1	1.7	19.0			
	R	5.9	11.4				
	Total	**57.0**	**13.0**	**19.0**	**0.0**	**0.0**	**89.0**

R = Mild steel bars (250 MPa) to SABS 920
Y = High yield steel bars (450 MPa) to SABS 920
Z = Cold drawn wire rod
* Specified in multiples of 25mm
** Specified in multiples of 10mm
This schedule complies with SABS 82

NOTES

DESIGN:

REGIONAL WIND SPEED:	40m/s (144km/h).
TERRAIN CATEGORY:	2
CLASS:	B
SITE ALTITUDE:	1400m ASL
AREA OF FLOODS:	0.17m²
REINFORCING COVER:	50mm
SOIL PRESSURE:	90.85kPa
MINIMUM VERTICAL LOAD:	3.0kN
SHEAR FORCE:	4.78kN
BENDING MOMENT:	48.86kNm
CONCRETE VOLUME:	1.43m³
EXCAVATION VOLUME:	3.69m³

GENERAL:

1) CONCRETE STRENGTH SHALL BE GRADE 25 OR HIGHER. THE CONTRACTOR SHALL CARRY OUT AND SUPPLY RESULTS OF 28 DAY CUBE TEST TO THE ENGINEER.
2) REINFORCING STEEL SHALL BE DEFORMED BAR WITH A MINIMUM YIELD STRENGTH OF 450 MPA AND SHAPED IN ACCORDANCE WITH SABS 82.
3) THE CONTRACTOR SHALL CARRY OUT SOIL TEST IN ORDER TO DETERMINE SOIL BEARING CAPACITY AS WELL AS SOIL CLASIFICATION. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE RESULTS OF THESE TESTS FOR APPROVAL. NO CONCRETE MAY BE CAST BEFORE APPROVAL OF SOIL TEST BY THE ENGINEER. SOIL BEARING CAPACITY TO BE DETERMINED BY MEANS OF DYNAMIC CONE PENETROMETER TEST. SOIL CASSIFICATION SHALL BE DONE ACCORDING TO SABS 0161-1980 B-3
4) ALL WORK CARRIED OUT BY THE CONTRACTOR SHALL BE IN ACCORDANCE WITH THE SABS 0100-2:1992 CODE OF PRACTICE.
5) A CONSTRUCTION JOINT BETWEEN THE PLINTH AND SLAB IS ALLOWED PROVIDED THAT THE JOINT IS DONE IN ACCORDANCE WITH SABS 0100-2:1992 PARAGRAPH 10.4.5

LEGEND:

ALT = ALTERNATE
ABR = ALTERNATE BAR REVERSE
B = BOTTOM
B1 = BOTTOM LOWER LAYER
B2 = BOTTOM UPPER LAYER
BW = BOTH WAYS
C = INSIDE CORNER
EF = EACH FACE
FF = FAR FACE
NF = NEAR FACE
STG = STAGGERED
T = TOP
T1 = TOP UPPER LAYER
T2 = TOP LOWER LAYER

ORIGINAL / OLD DRAWING NO: | SHEET

REV	DATE	DESCRIPTIONS	BY	CHCK'D

REVISIONS

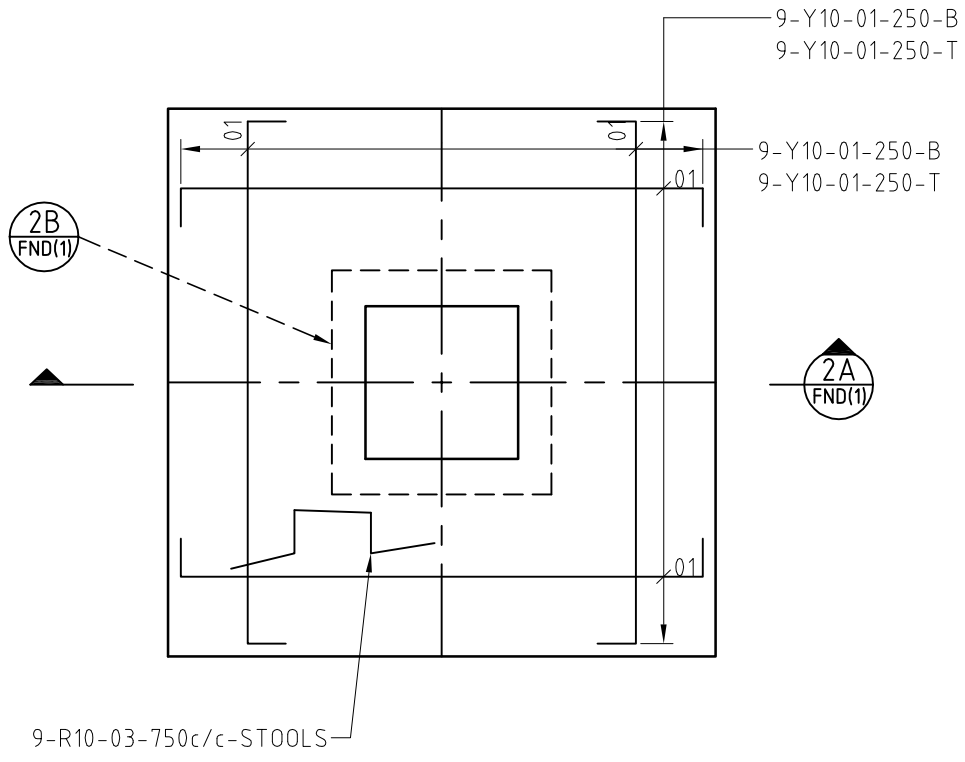
TENDER PURPOSE ONLY

CONTRACTOR:
LeBLANC COMMUNICATIONS SOUTH AFRICA (PTY) LTD.
18 JOHNSON ROAD
PRETORIUSSTAD
TEL: +27 11 814-1404 /-5 /-6
P. O. BOX 1592
NIGEL, 1490
FAX: +27 11 814-1444

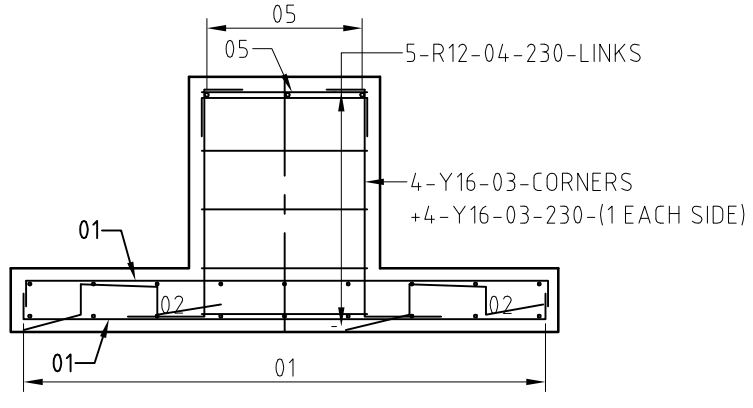
TITLE:
20m MID HINGE MAST
FOUNDATION DRAWING

DESIGNED:	JOHN NUTT	SCALE: (A3)	DATE: 2009/10/02
DRAWN:	D.Makondo	DRAWING NO: LCSA-AAL-20mMH -FND-01	REV: 0
CHECKED ACAD:			
QUALITY CONTROL:			
APPROVED:			

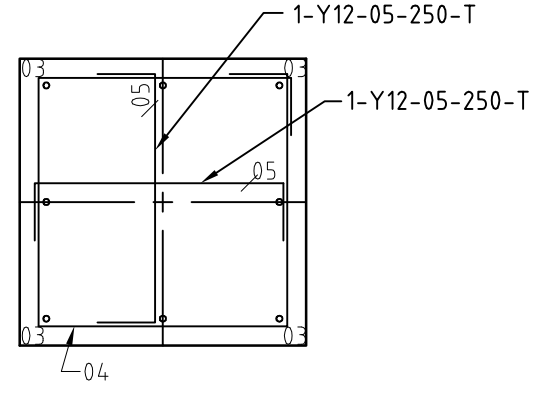
FOUNDATION REINFORCEMENT



2 PLAN FND(1) (SCALE 1:30)



2A SECTION FND(1) (SCALE 1:30)



2B DETAIL FND(1) (SCALE 1:20)