


- NOTES:
- 1 CONCRETE WORK TO BE IN ACCORDANCE WITH SANS 1200.
  - 2 CONCRETE STRENGTH AT 28 DAYS = 25MPa.
  - 3 CONCRETE STRENGTH FOR BLINDING LAYER AT 28 DAYS = 15MPa.
  - 4 ALL TOP EDGES OF FOUNDATION TO HAVE 25-35mm CHAMFER.
  - 5 FOR HEIGHT OF FOUNDATION SEE FOUNDATION LAYOUT.
  - 6 COMPACTION OF THE BOTTOM OF FOUNDATIONS SHALL BE COMPACTED TO 93% MOD.AASHTO.
  - 7 DO NOT GROUT UNDER SUPPORT BASE PLATE.
  - 8 OFF SHUTTER FINISH TO UPPER SIDES OF FOUNDATION TO EXTEND TO 100mm BELOW GROUND LEVEL.
  - 9 ONLY STEEL SHUTTERING MAY BE USED.
  - 10 ONLY STEEL TEMPLATE MAY BE USED FOR SETTING H.D.BOLTS.
  - 11 BOLTS,NUTS & WASHERS TO BE IN ACCORDANCE WITH SANS 1700.
  - 12 H.D.BOLTS AND NUTS TO PROTRUDE 100mm ABOVE FINISHED FOUNDATION LEVEL.
  - 13 NON OXIDE IS TO BE USED ON ALL EARTH CONNECTIONS TO H.D.BOLTS.
  - 14 ALL EARTHING TO CONFORM TO D-DT-5240.
  - 15 REINFORCING TO HAVE A MIN CONCRETE COVER OF 50mm.
  - 16 ALL REINFORCING SPliced TO HAVE A LAPPED LENGTH OF 42 X DIAMETER OF REINFORCING BAR.
  - 17 ALL REINFORCING BARS TO BE MEASURED & BENT IN ACCORDANCE TO SANS 1478.
  - 18 FOR PRICING THE AVERAGE LENGTH OF 15m FLAT COPPER INCLUDES THE COPPER BETWEEN FOUNDATION AND MAIN EARTHMAT AND 4 X 3m TAILS. FLAT COPPER TO HAVE A MINIMUM DEPTH OF 500mm.
  - 19 NO CONCRETE TO BE POURED WHERE THE AIR TEMPRATURE WILL DROP BELOW 4 DEG CELCIUS IN 8 HOURS AFTER POURING OF CONCRETE UNLESS A SUITABLE APPROVED ADDITIVE IS ADDED TO THE CONCRETE MIX.
  - 20 THIS FOUNDATION IS ONLY FOR SOIL TYPE 1 AND 2

HD BOLT SCHEDULE								
BOLT SIZE	MILD STEEL GRADE	PITCH	LENGTH	NO OFF HD BOLTS	NO OFF NUTS	NO OFF WASHERS	TOTAL MASS KG	TORQUE Nm
24	4.8	3	1000	4	16	16	16.31	359-407

REINFORCMENT SCHEDULE						
MK	TYPE & SIZE	NO REQUIRED TOTAL PER ITEM	CUTTING LENGTH	TOTAL LENGTH (M)	WEIGHT KG	BENDING REMARKS
1	Y16	16	1120	17.92	28.32	220 900
2	R10	4	5440	21.76	13.48	1300 (ALL SIDES)

SCHEDULE OF QUANTITIES
EXCAVATION VOLUME = 1.67m <sup>3</sup>
CONCRETE VOLUME = 1.96m <sup>3</sup>
SHUTTERING AREA = 1.40m <sup>2</sup>
50x3mm FLAT COPPER = 20.25kg

BEARING CAPACITY	
FOUNDATION = 150KPA	SOIL TYPE 1 AND 2

		D-DT-5217	SHEET 2B	LIGHTING-LIGHTNING MAST DETAILS		
	DRG NO.	SHEET NO:	REFERENCE DRAWINGS:			
THIS DRAWING IS THE NEW OFFICIAL REVISION AND IT SUPERCEDES ALL OTHER PUBLISHED DRAWINGS						
6	HD BOLT ARRANGEMENT ADDED	GJB	NMW	BPH	15/05/2012	
5	REDRAWN, NOTES UPDATED	GJB	NMW	BPH	12/05/2011	
REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
		LIGHTING-LIGHTNING MAST - 14M TUBULAR SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)				
AUTH: B P HILL						
DATE: 10/12/2002						
CHKD: J F SCHOLTZ						
DATE: 10/12/2002						
DRAWN: J LE ROUX		D-DT-5217		SET	SHEET	REVISION
DATE: 20/11/2002					1B	6