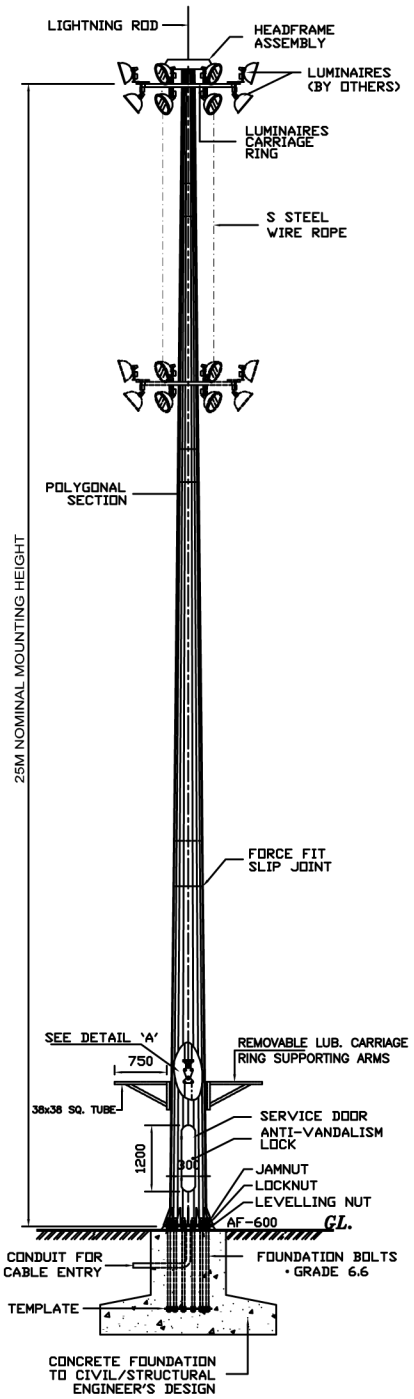
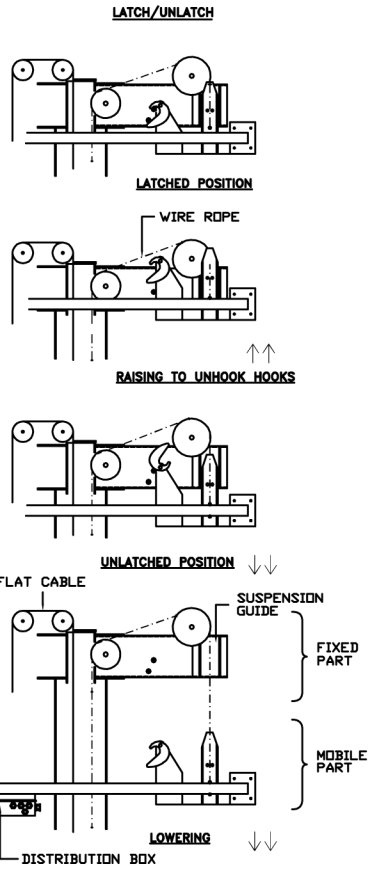
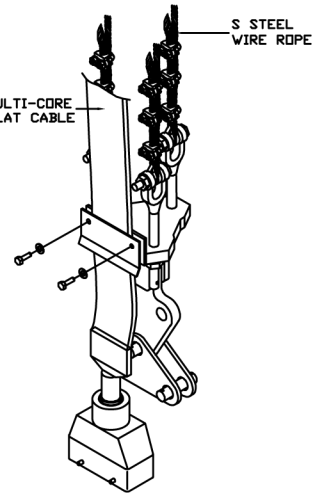
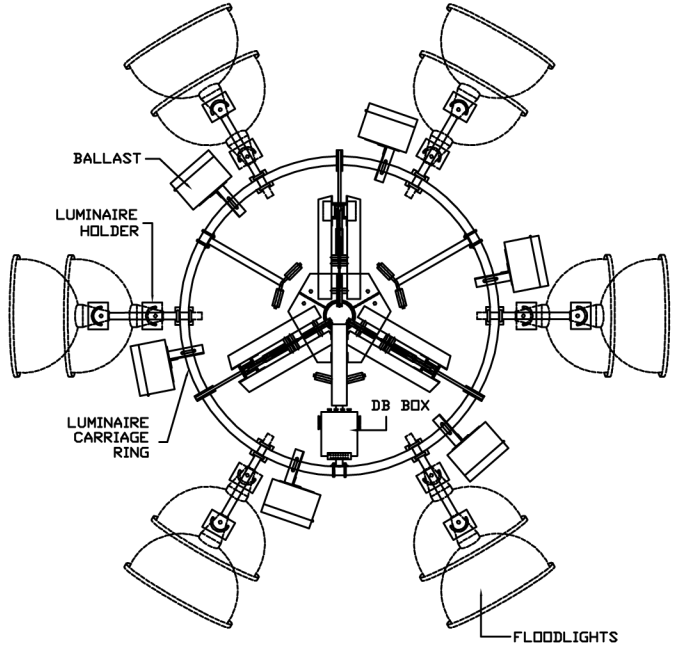


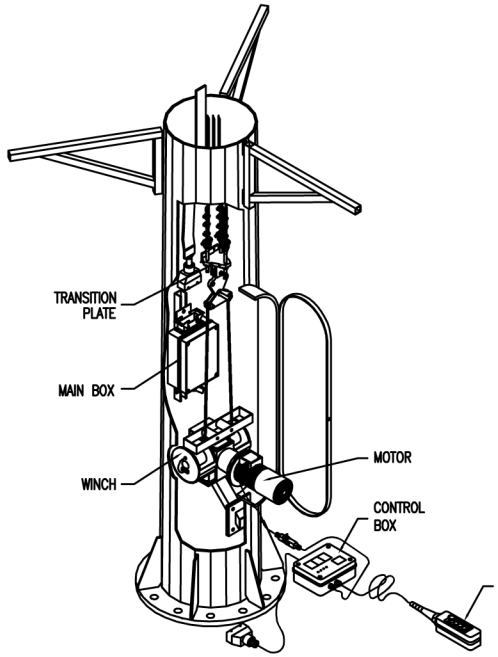




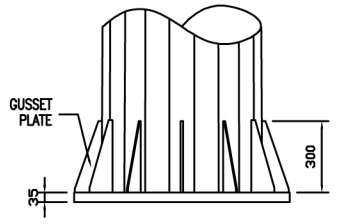
DETAIL A
TRANSITION PLATE

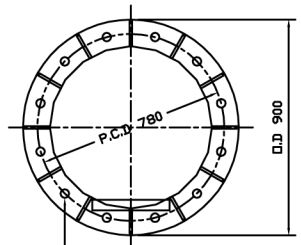


HIGH MAST HEADFRAME
TYPICAL ARRANGEMENT OF LUMINAIRES



SERVICE DOOR COMPARTMENT





12 x ø38 HOLES FOR ø32 x 1200 LENGTH ANCHOR BOLTS

BASE FLANGE
STIFFENED WITH GUSSET PLATE

SPECIFICATION

1) HIGH MAST DIMENSION
- 1.1 MOUNTING HEIGHT = 25M
- 1.2 CROSS SECTION SHAPE (NO OF SIDES) = 20
- 1.3 MAX. TOTAL NO OF SECTIONS = 4
- 1.4 MAX. SECTION LENGTH = 8.0M

	BOTTOM SECTION	INTERMEDIATE 1	INTERMEDIATE 2	TOP SECTION
LENGTH	8M	8M	8M	3.1M
THICKNESS	6.0mm	5.0mm	4.0mm	4.0mm
TOP AF				254mm
BOTTOM AF	600			

- 1.5 SERVICE DOOR DIMENSIONS
  - 1.5.1 LENGTH = 1200mm
  - 1.5.2 WIDTH = 300mm
  - 1.5.3 DOOR BOTTOM FROM GROUND LEVEL = 600mm
- 1.6 DOOR OPENNING TO BE REINFORCED HEAVILY TO PREVENT BUCKLING = YES
- 1.7 ANTI-VANDALISM DOOR LOCK = YES
- 1.8 BASE FLANGE
  - 1.8.1 OD = 900mm
  - 1.8.2 P.C.D = 780mm
  - 1.8.3 THICKNESS = 35mm

2) DESIGN CONDITIONS
- 2.1 MAX. PROJECTED LUMINAIRE SAIL AREA (BASED ON SYMMETRICAL LUM. ARRANGEMENT) = 2.5M2
- 2.2 MAX. LUMINAIRE AND BALLAST MASS = 500 kg
- 2.3 BASIC WIND SPEED = 35 m/s at 10M HEIGHT

3) CONFIRMING STANDARDS
- 3.1 MAST DESIGN = AS/NZS 1170
- 3.2 MATERIAL = AZ/NZS 4600
- 3.3 WELDING (ELECTRIC ARC WELDING) =
- 3.4 GALVANISING = AS/NZS 4680

4) TESTING PROCEDURES = DIMENSIONAL VERIFICATION
GALVANISING THICKNESS
MATERIAL THICKNESS

NOTES :

THE LATCHING MECHANISM USES SELF LOCKING SYSTEM FULLY OPERATIONAL BY LAW OF GRAVITY AND MUST NOT CONTAIN MECHANICAL COMPONENTS SUCH AS SPRINGS, LEVERS ETC.

REV .	DATE	BY	DESCRIPTION

PROJECT

OWNER

ELECTRICAL CONTRACTOR

DRAWING TITLE

25M HIGH MAST

MANUFACTURER

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DRAWN BY	: D.C.	DATE	: 22-10-2007
SCALE	: D.C.	CHKD. BY	: D.C.
DRAW NO.	:HM-PRELILMINARY	REVISION	00