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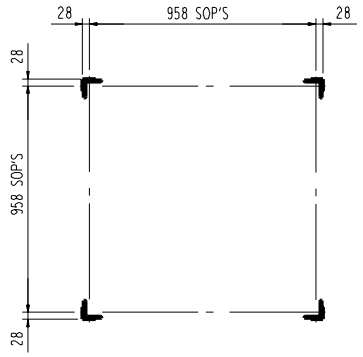
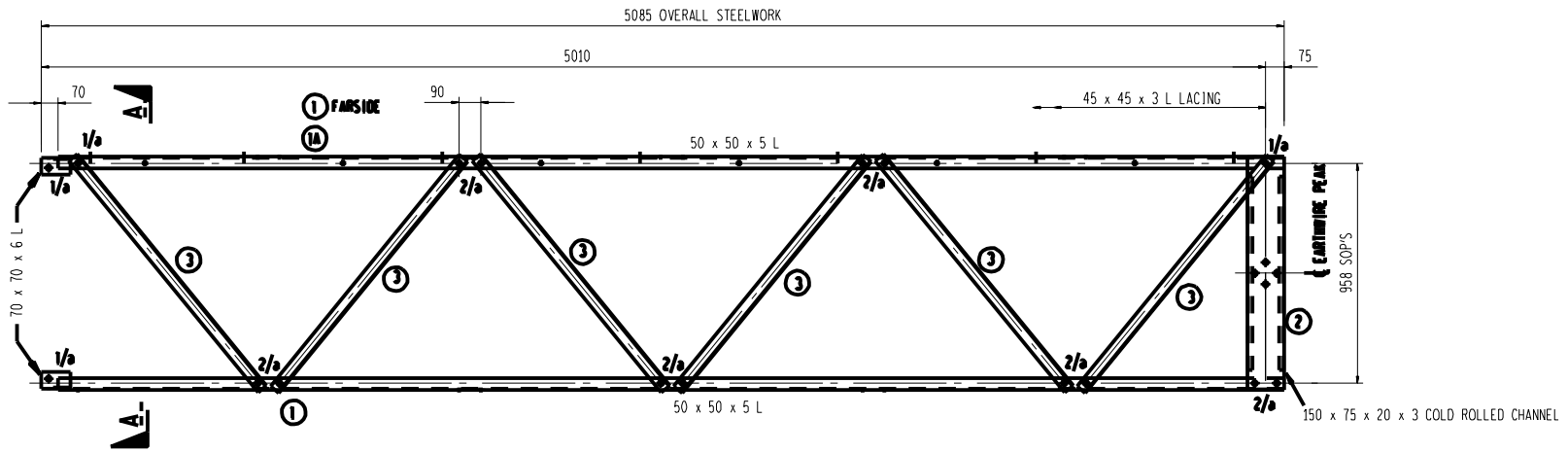


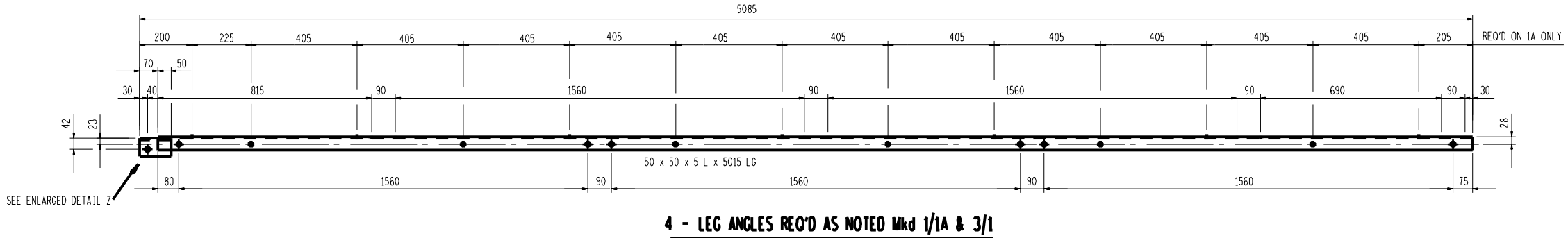
SECTION A-A

1:5



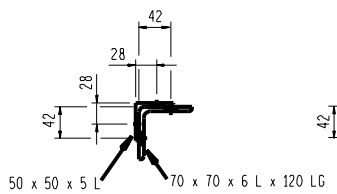
EARTHWIRE PEAK ASSEMBLY DETAILS

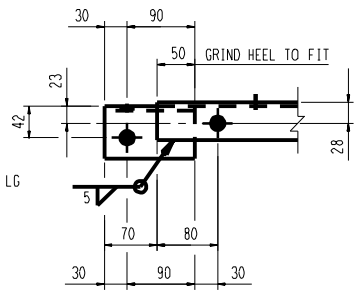
1:5



4 - LEG ANGLES REQ'D AS NOTED Mkd 1/1A & 3/1

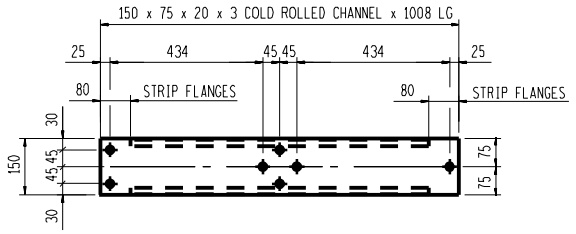
1:10





ENLARGED DETAIL Z

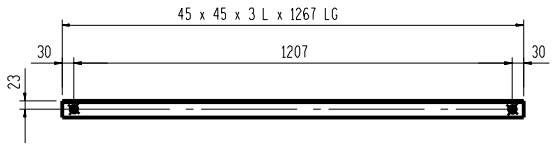
1:5



4 - EARTHWIRE CONNECTION CHANNELS

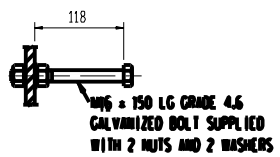
REQ'D AS DRAWN Mkd 2

1:10



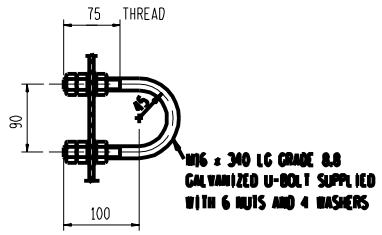
24 - LACING ANGLES REQ'D AS NOTED Mkd 3

1:10



STEP BOLT - 13 NO OFF REQ'D

1:5



M16 SHACKLE BOLT - 4 NO OFF REQ'D

1:5

MASS OF STEELWORK (BOLTS EXCLUDED)	___173 kg
MASS OF GRADE 4.6 BOLTS (INCLUDING STEP BOLTS)	.12. kg
NO. OFF GRADE 8.8 U-BOLTS	.1..

BOLT SCHEDULE

STRENGTH GRADE 4.6

MARK	TYPE	NO OFF	LENGTH
.0.	M16	61.	55.
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...

NOTES ON BOLTS:
1) BOLTS TO BE SUPPLIED WITH NUT AND WASHER.
2) BOLTS ERECTED WITH HEAD TO INSIDE PREFERED.
3) WASHER TO BE PLACED UNDER NUT.
4) ALL BOLTS TO BE GALVANISED.
5) BOLT POSITIONS INDICATED THUS: NO OFF/MARK eg. 6/a
6) BOLT TIGHTENING "SNUG TIGHT" USING STANDARD PODGER SPANNER OR IMPACT WRENCH(GRADE 4.6)

NOTES

UNLESS OTHERWISE NOTED:

1) QUANTITIES SHOWN ARE FOR ONE EARTHWIRE PEAK ONLY.
2) ALL STRUCTURAL STEEL TO BE GRADE 300W.
3) ALL STEELWORK TO BE HOT DIP GALVANIZED TO S.A.B.S. 763.
4) ALL HOLES TO BE 18 DIAMETER.
5) OPEN HOLES AND SITE BOLTS INDICATED THUS: ⊕ ⊕
   STEP BOLTS INDICATED THUS: ✳ ⊕
6) THE CONTRACTOR SHALL SUPPLY ALL NUTS, BOLTS, WASHERS, ETC. REQUIRED FOR ERECTION.
7) ALL PORTIONS OF WELDED JOINTS, NOT SEALED BY STRUCTURAL WELD, SHALL BE SEAL WELDED.
8) ALL MARKS TO BE STAMPED ONTO STEELWORK AND SHALL BE CLEARLY LEGIBLE AFTER GALVANIZING.
9) ALL MARKS TO BE PREFIXED :...705.....
10) LIMITATIONS OF GENERAL USAGE:-
    THESE STRUCTURES HAVE BEEN DESIGNED TO SAFELY WITHSTAND THE FOLLOWING LOADING CONDITIONS:
    A) EARTHWIRE LOADS OF 2.5 kN PER WIRE.
    B) WIND LOADS RESULTING FROM A FREE STREAM VELOCITY PRESSURE (q_{22}) OF 1000 Pa AS DEFINED IN CLAUSE 4.5.3 OF SABS 0160-1980. THIS DESIGN PRESSURE IS APPLICABLE FOR TERRAIN CATEGORY 2 LOCATIONS THROUGHOUT SOUTH AFRICA, WITH THE EXCEPTION OF THE AREA BOUNDED BY THE TOWNS OF UPINGTON, KIMBERLEY, COLESBURG AND LAINSBURG INCLUSIVE. WHERE THE STRUCTURES ARE TO BE LOCATED WITHIN THIS AREA, OR ANYWHERE WITHIN SOUTH AFRICA AT A TERRAIN CATEGORY 1 LOCATION (ie. IN A SEVERELY EXPOSED LOCATION), APPROVAL TO USE THESE STRUCTURES MUST BE OBTAINED FROM ESKOM'S CIVIL ENGINEERING DIVISION.

REV	AUTH MAG	DATE DATUM	REVISION/REVISIES	BY DEUR	CHKD NAGES	REFERENCE DRAWINGS VERWYSINGSTEKENINGE
1	A.A.	0.0.0	WORKSHOP	A.A.	A.A.	2006 COLUMN NC6
0			FIRST ISSUE / EERSTE UITREIKING			2005 COLUMN NC5
			INDEX REF/INDEKSVERW 52-59		0-54	2004 COLUMN NC4
						2003 COLUMN NC3

DRG.TEK REGISTR

CHKD NAGES A.A.

DRAWN GETEKEN BELPOW

SCALE SKAAL AS SHOWN

APPROVED GOEDGEKEUR A.BARRARD 06 02 89

ESKOM

275 kV YARD STEELWORK
ASSEMBLY AND DETAILS OF EARTHWIRE PEAK FOR COLUMNS NC3 TO NC6

0-54/3901.. REV _1

THIS DRAWING HAS BEEN CREATED ON A C.A.D. SYSTEM. ANY AMENDMENT MUST BE EFFECTED ON THE SAME SYSTEM. C.A.D. REFERENCE No (103,169)039010000.001 : 1.

SIZE GROOTTE A1L