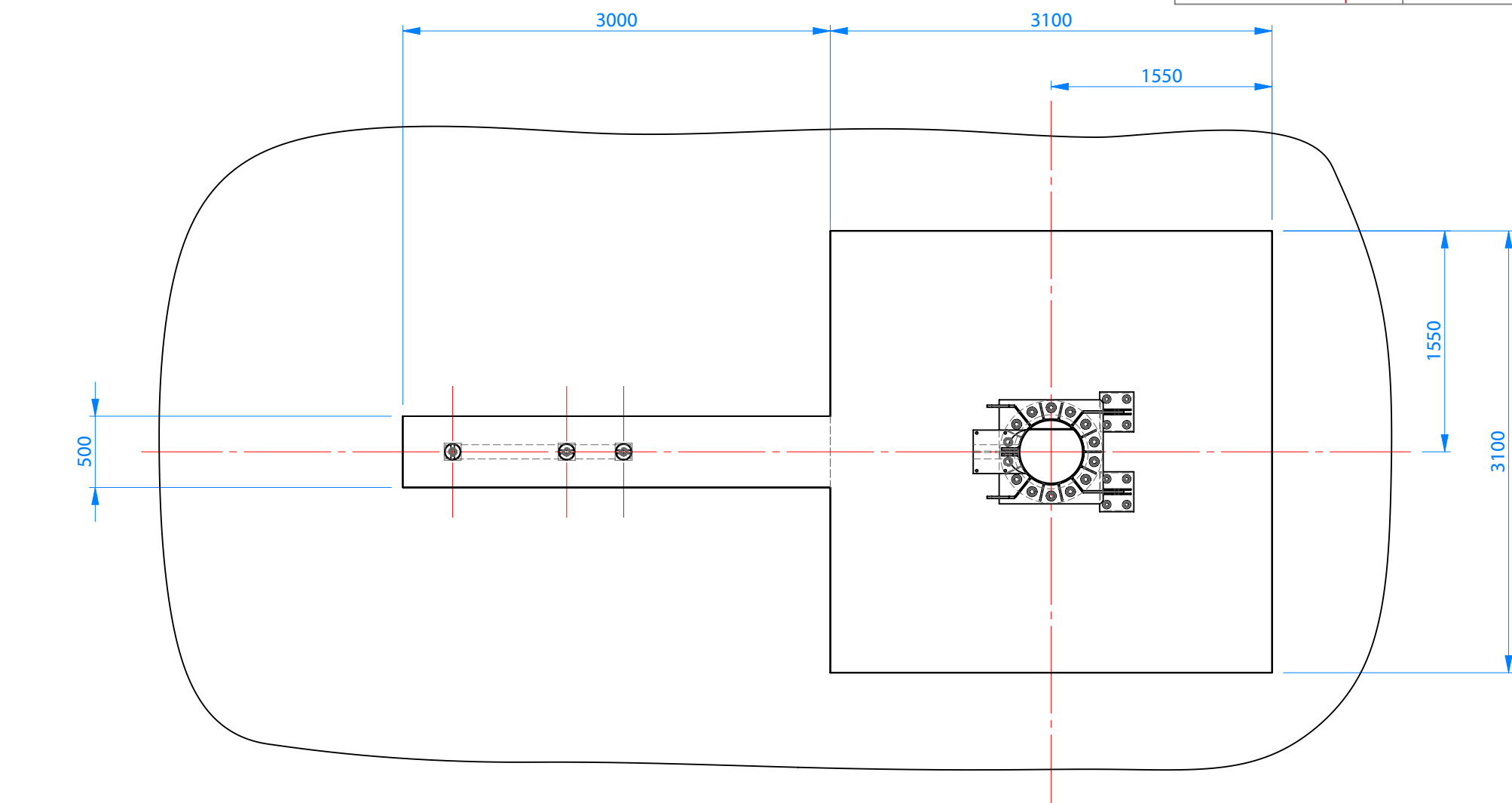
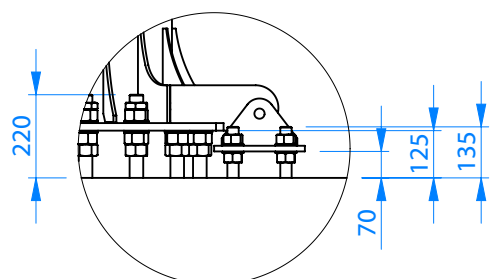


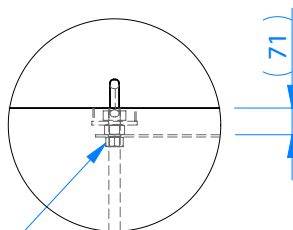
SITE REF. :



DETAIL A
SCALE 1 : 20



DETAIL B
SCALE 1 : 20



3 OFF M30 NUTS
TO SECURE ANCHOR
TO TEMPLATE

12M / 15M GIN POLE COLUMN ASSEMBLY
TO SUIT EVANCE AT5-1 5kW TURBINE

THIS ANCHOR BLOCK TO
BE USED WITH AN OPTIONAL
GRIP HOIST.
SEE EVN_5kW_15M_G_002
FOR GIN POLE / HOISTING
ARRANGEMENT DETAILS

ANCHOR POINT ASSEMBLY
EVN_5kW_A_701 (3 OFF)
* TOP OF $\varnothing 114$ CUP TO BE FLUSH
WITH TOP OF CONCRETE

ANCHOR PLATE
EVN_5kW_18.3M_C_702
SECURED INTERNALLY
TO MESH CAGE

ANCHOR PLATE
EVN_5kW_18.3M_C_703
SECURED INTERNALLY
TO MESH CAGE

GRADE C35 CONCRETE
WITH RE-BAR CAGE
EVN_5kW_F_801

PAD BASE H/D BOLT ASSEMBLY
EVN_5kW_A_901

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NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETRES WITH LEVELS SHOWN IN METRES.
2. ALL DIMENSIONS NOT TOLERANCED TO BE WITHIN ± 0.50 mm.
3. STEELWORK TO BE TO BS 7668 OR BS EN 10113-1, GRADE S275 (UNLESS OTHERWISE SPECIFIED), & FABRICATED IN ACCORDANCE WITH BS 5950.
4. ALL BOLTS TO BE GRADE 8.8 SPUN GALVANISED TO BS 3692.
5. ALL STEELWORK TO BE PICKLED AND HOT DIP GALVANISED IN ACCORDANCE WITH BS EN ISO:1461 (UNLESS OTHERWISE SPECIFIED).
6. REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL :

FINISH :

MASS (Kg.) :

hutchinson
engineering

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FAX. +44 (0)151 420 5100

www.hutchinsonengineering.co.uk



EVERITE ROAD,
WIDNES,
CHESHIRE,
WA8 8PT

CLIENT : EVANCE

PROJECT : EVANCE 5kW 12m / 15m GIN POLE STRUCTURE

TITLE : PAD FOUNDATION ARRANGEMENT INC. ANCHOR
BLOCK FOR 12M & 15M GIN POLE STRUCTURES
TO SUIT H/D BOLT ARRANGEMENT

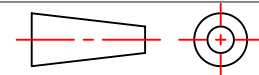
DRAWN : A.P.H	APP'D : I.J.B.	CHK'D : I.J.B.	SCALE : 1:40	DATE : 23/03/2010
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DWG No. :
EVN_5kW_F_003

A3

A

A	FOR MANUFACTURE	A.P.H	I.J.B.	23/03/2010
REV.	DESCRIPTION	DRAWN	APP'D	DATE



SITE REF. :

CONCRETE NOTE

1. ALL STRUCTURAL CONCRETE TO BE GRADE C35 WITH A MAXIMUM FREE WATER/CEMENT RATIO OF 0.5 AND A MINIMUM CEMENT CONTENT OF 300Kg/m³. NOMINAL AGGREGATE SIZE 20mm. ALL IN ACCORDANCE WITH B.S.:8110 PART 1 : 1985.

2. CONCRETE MIX WITH "VERY SEVERE EXPOSURE" CONDITIONS, AS DEFINED IN B.S.:811 PART 1 : 1997 AND CLASS 2 SULPHATE RESISTANCE IN ACCORDANCE WITH B.S.:5329 PART 1 : 1997.

3. MINIMUM COVER TO ANY BAR SHALL BE AS STATED, BUT IN NO CASE LESS THAN 65mm.

4. FOUNDATION SHALL BE FOUNDED ON APPROVED SUB-GRADE, CAPABLE OF WITHSTANDING A MINIMUM BEARING PRESSURE OF 100 kN/Sq.m.

5. DESIGN ENGINEER TO BE CONSULTED PRIOR TO POURING OF CONCRETE, WHERE GROUND IS FOUND TO BE SOFT, RUNNY, LOOSE OR VARIES SIGNIFICANTLY ACROSS FORMATION. ALSO IN AREAS OF SEVERE CONTAMINATION, OR WHERE HIGH SULPHATE LEVELS ARE FOUND TO BE PRESENT.

6. CONTRACTOR SHALL SITE CHECK ALL RELEVANT DIMENSIONS AND LEVELS PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF ALL WORK AND THE CORRECT SETTING OUT ON SITE.

REINFORCEMENT NOTES

1. THIS DRAWING IS TO READ IN CONJUNCTION WITH RELEVANT FOUNDATION DRAWING.

2. BARS LISTED ON BENDED SCHEDULE.

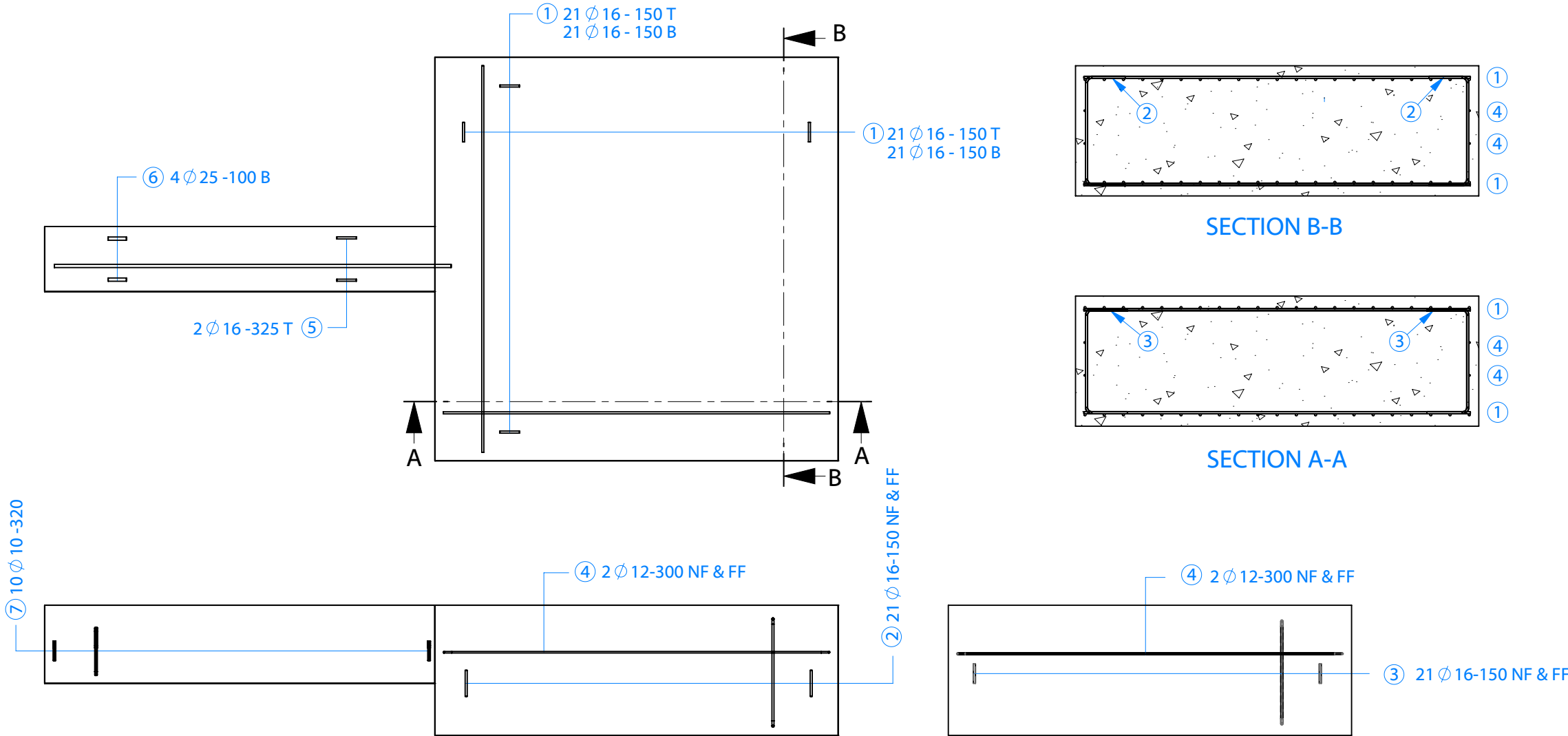
3. RE-INFORCING BARS TO BE GRADE B500A, B500B OR B500C, DEFORMED IN ACCORDANCE WITH B.S.:8666:2005 (F_y = 500N/mm²).

4. MINIMUM COVER TO TOWER BLOCK BARS SHALL BE:-

65mm TO TOP OF FOUNDATION
65mm TO SIDES OF FOUNDATION
65mm TO UNDERSIDE OF FOUNDATION

MINIMUM COVER TO ANCHOR BLOCK BARS SHALL BE:-

165mm TO TOP OF FOUNDATION
65mm TO SIDES OF FOUNDATION
65mm TO UNDERSIDE OF FOUNDATION



MEMBER	BAR MARK	TYPE OF STEEL	BAR DIAMETER	NO. OF MBRS.	NO. OF EACH	LENGTH EACH BAR (mm)	SHAPE CODE	A (mm)	B (mm)	
PAD	1	B500A,B OR C (RIBBED)	H16	1	84	2970	00	2970	-	
PAD	2	B500A,B OR C. (RIBBED)	H16	1	42	1400	21	306	840	
PAD	3	B500A,B OR C. (RIBBED)	H16	1	42	1400	21	320	810	
PAD	4	B500A,B OR C. (RIBBED)	H12	1	8	3340	21	222	2970	
PAD	5	B500A,B OR C. (RIBBED)	H16	1	2	3050	00	3050	-	
PAD	6	B500A,B OR C. (RIBBED)	H25	1	4	3050	00	3050	-	
PAD	7	B500A,B OR C. (RIBBED)	H10	1	10	2000	63			

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REV.	DESCRIPTION	DRAWN	APP'D	DATE
A	FOR MANUFACTURE	A.P.H	I.J.B.	23/03/2010

NOTES :

- ALL DIMENSIONS ARE IN MILLIMETRES WITH LEVELS SHOWN IN METRES.
- ALL DIMENSIONS NOT TOLERANCED TO BE WITHIN ± 0.50 mm.
- STEELWORK TO BE TO BS 7668 OR BS EN 10113-1, GRADE S275 (UNLESS OTHERWISE SPECIFIED), & FABRICATED IN ACCORDANCE WITH BS 5950.
- ALL BOLTS TO BE GRADE 8.8 SPUN GALVANISED TO BS 3692.
- ALL STEELWORK TO BE PICKLED AND HOT DIP GALVANISED IN ACCORDANCE WITH BS EN ISO:1461 (UNLESS OTHERWISE SPECIFIED).
- REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL :

FINISH :

MASS (Kg.) :



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FAX. +44 (0)151 420 5100

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EVERITE ROAD,
WIDNES,
CHESHIRE,
WA8 8PT

CLIENT : EVANCE

PROJECT : EVANCE 5kW 12m & 15m GIN POLE STRUCTURE

TITLE : REINFORCING BAR SCHEDULE TO SUIT 3.1m x 3.1m x 1m DEEP PAD FOUNDATION WITH INTEGRAL 3.0m x 0.5m x 0.6m DEEP ANCHOR PAD (TO SUIT H/D BOLT OPTION)

DRAWN :	APP'D :	CHK'D :	SCALE :	DATE :
A.P.H	I.J.B.	I.J.B	1:40	23/03/2010

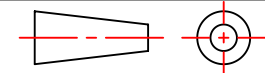
DWG No. :

EVN_5kW_F_801 (SHEET 1 OF 2)

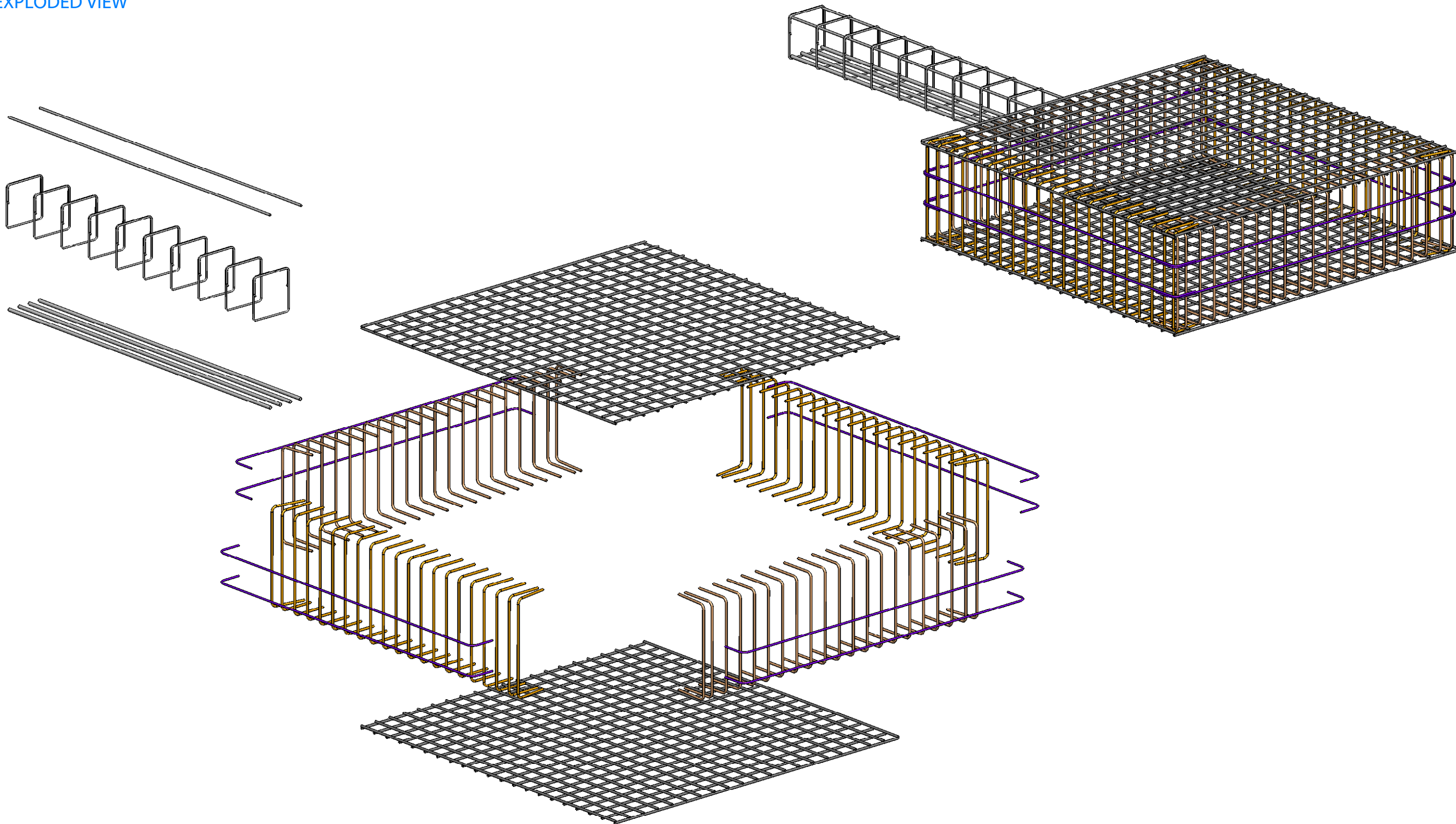
A3

A

PAD FOUNDATION RE-BAR CAGE
EXPLODED VIEW



SITE REF. :



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A	FOR MANUFACTURE	A.P.H	I.J.B	23/03/2010
REV.	DESCRIPTION	DRAWN	APP'D	DATE

- NOTES :**
1. ALL DIMENSIONS ARE IN MILLIMETRES WITH LEVELS SHOWN IN METRES.
 2. ALL DIMENSIONS NOT TOLERANCED TO BE WITHIN $\pm 0.50\text{mm}$.
 3. STEELWORK TO BE TO BS 7668 OR BS EN 10113-1, GRADE S275 (UNLESS OTHERWISE SPECIFIED), & FABRICATED IN ACCORDANCE WITH BS 5950.
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 6. REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL :

SEE DETAILS

FINISH :

MASS (Kg.) :



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EVERITE ROAD,
WIDNES,
CHESHIRE,
WA8 8PT

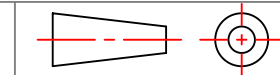
CLIENT : EVANCE
PROJECT : EVANCE 5kW 12m & 15m GIN POLE STRUCTURE
TITLE : REINFORCING BAR SCHEDULE TO SUIT 3.1m x 3.1m x 1m DEEP PAD FOUNDATION WITH INTEGRAL 3.0m x 0.5m x 0.6m DEEP ANCHOR PAD (TO SUIT H/D BOLT OPTION)

DRAWN : A.P.H	APP'D : I.J.B.	CHK'D : I.J.B	SCALE : 1:30	DATE : 23/03/2010
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DWG No. :
EVN_5Kw_F_801 (SHEET 2 OF 2)

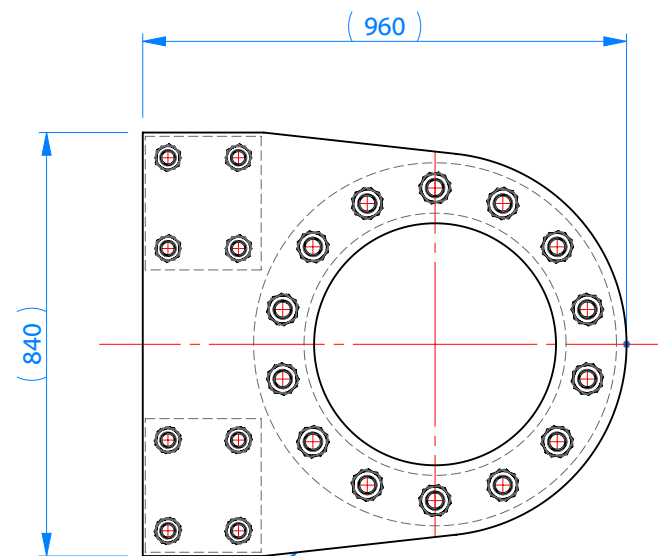
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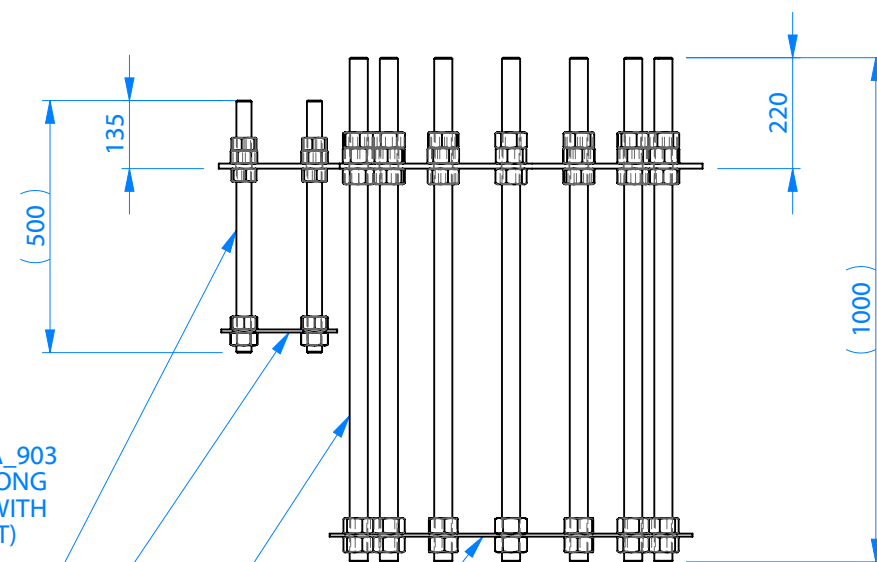


SITE REF. :

BASE ASSEMBLY SHOWN WITH INSTALLATION PLATE



EVN_5kW_C_901
INSTALLATION TEMPLATE



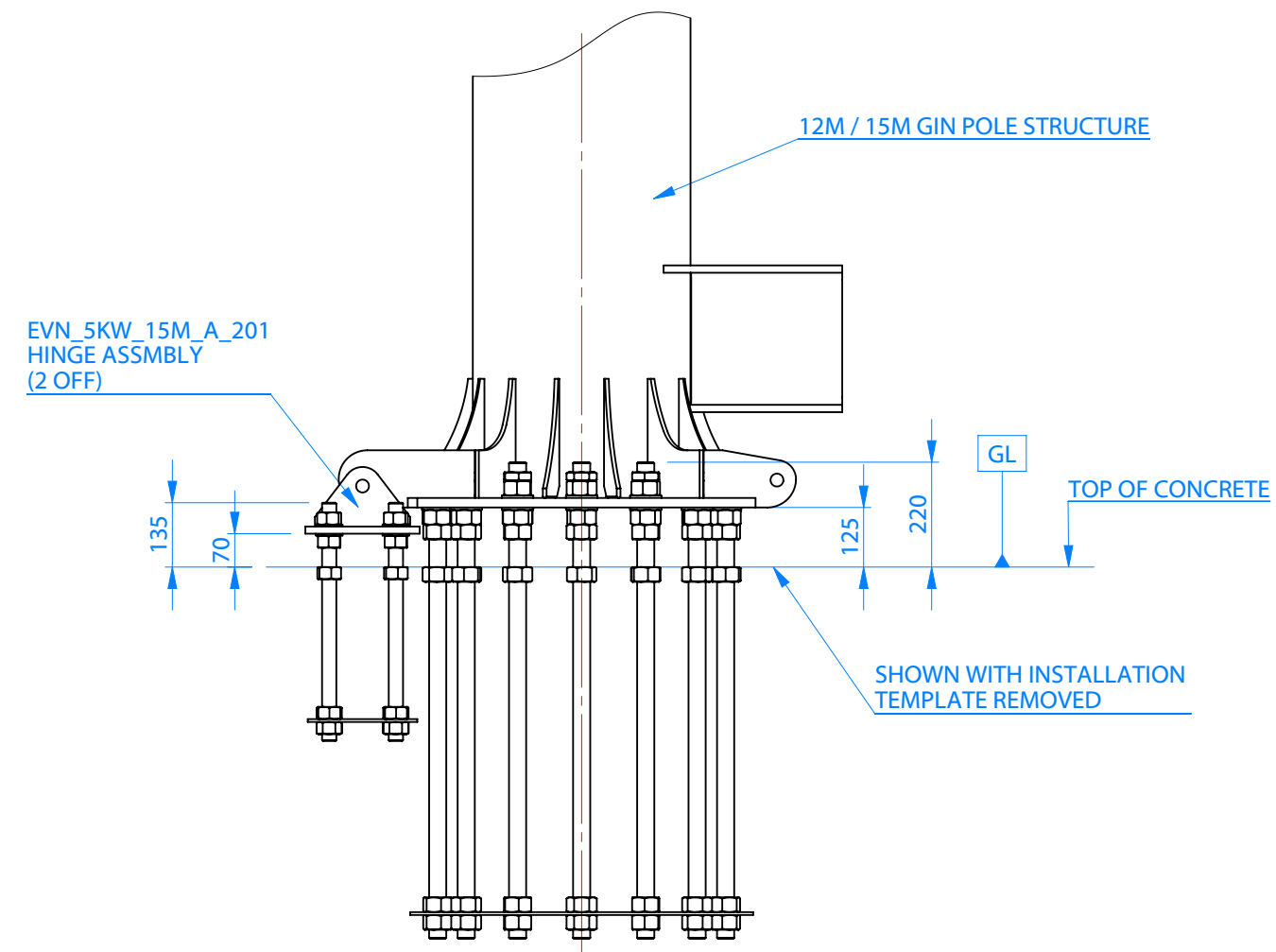
WTS_5kW_A_903
M30 x 500 LONG
STUD BAR (WITH
CAPTIVE NUT)
8 OFF

EVN_5kW_C_903
HINGE BOTTOM
PLATE (2 OFF)

EVN_5kW_A_902
M36 x 1000 LONG
STUD BAR (WITH
CAPTIVE NUT)
14 OFF

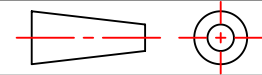
EVN_5kW_C_902
FOUNDATION LOWER RING

BASE ASSEMBLY SHOWN WITH HINGE ASSEMBLY AND POLE (TO BE FITTED ONCE BASE INSTALLATION PLATE HAS BEEN REMOVED AND BASE HAS SET IN CONCRETE)

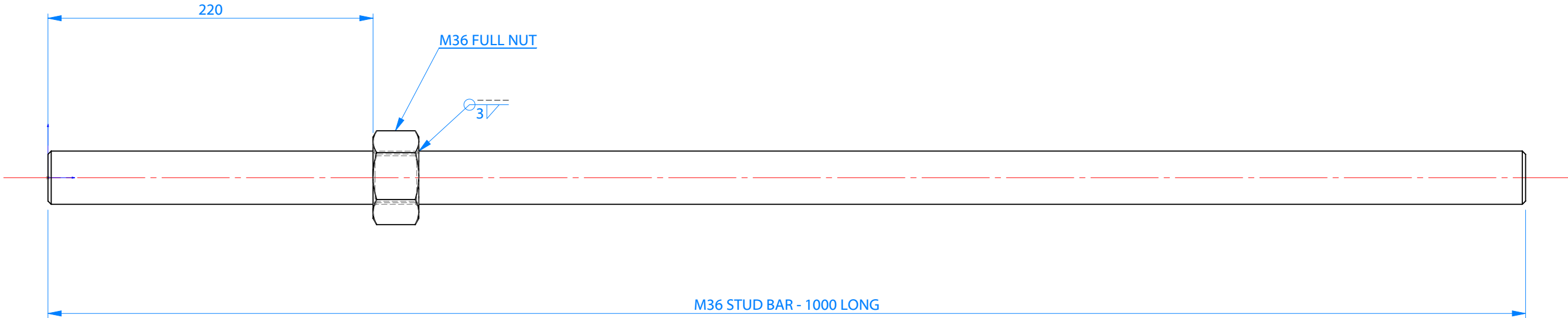


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					NOTES : 1. ALL DIMENSIONS ARE IN MILLIMETRES WITH LEVELS SHOWN IN METRES. 2. ALL DIMENSIONS NOT TOLERANCED TO BE WITHIN ±0.50mm. 3. STEELWORK TO BE TO BS 7668 OR BS EN 10113-1, GRADE S275 (UNLESS OTHERWISE SPECIFIED), & FABRICATED IN ACCORDANCE WITH BS 5950. 4. ALL BOLTS TO BE GRADE 8.8 SPUN GALVANISED TO BS 3692. 5. ALL STEELWORK TO BE PICKLED AND HOT DIP GALVANISED IN ACCORDANCE WITH BS EN ISO:1461 (UNLESS OTHERWISE SPECIFIED). 6. REMOVE ALL BURRS AND SHARP EDGES.	MATERIAL : SEE DETAILS	 TEL. +44 (0)151 422 9990 FAX. +44 (0)151 420 5100 www.hutchinsonengineering.co.uk	CLIENT : EVANCE PROJECT : 12M & 15M 5KW GIN POLE PAD FOUNDATION TITLE : PAD BASE H/D BOLT ASSEMBLY	A3				
A	FOR MANUFACTURE	A.P.H	I.J.B	23/03/2010		MASS (Kg.) :	 EVERITE ROAD, WIDNES, CHESHIRE, WA8 8PT	DRAWN : A.P.H	APP'D : I.J.B.	CHK'D : I.J.B.	SCALE : 1:15	DATE : 23/03/2010	REVISION
REV.	DESCRIPTION	DRAWN	APP'D	DATE				DWG No. : EVN_5KW_A_901	A				



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A	FOR MANUFACTURE	A.P.H	I.J.B	24/03/2010
REV.	DESCRIPTION	DRAWN	APP'D	DATE

NOTES :

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6. REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL :

SEE DETAILS

FINISH :

GALVANISED

MASS (Kg.) :

1.07



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EVERITE ROAD,
WIDNES,
CHESHIRE,
WA8 8PT

CLIENT : PROVEN

PROJECT : EVANCE 12m & 15m 5KW GIN POLE H/D BASE

TITLE : FOUNDATION STUD ASSEMBLY

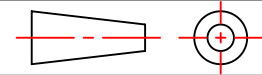
DRAWN : A.P.H	APP'D : I.J.B.	CHK'D : I.J.B.	SCALE : 1:3	DATE : 24/03/2010
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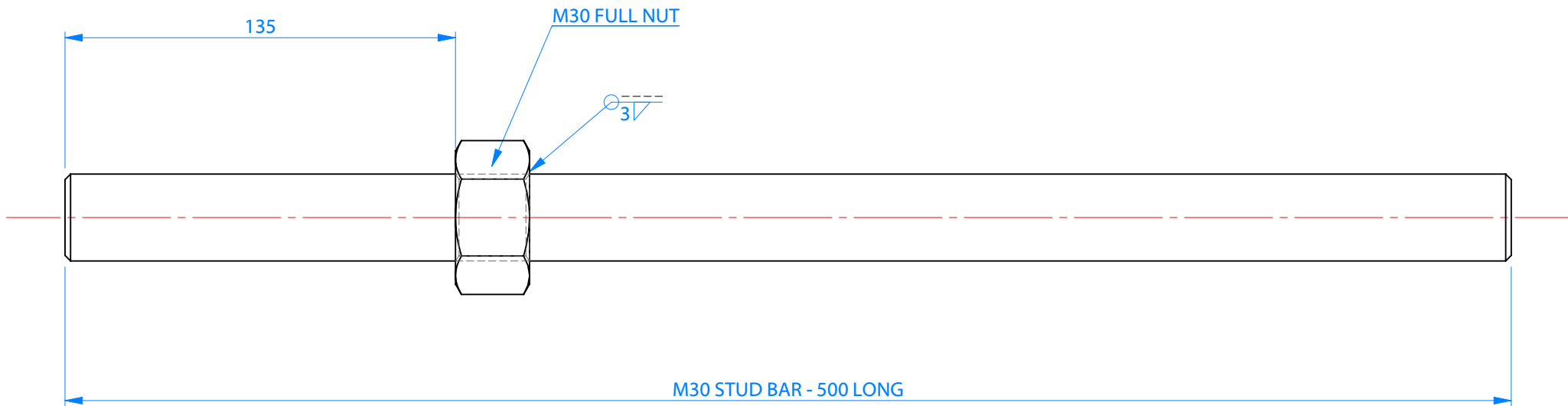
EVN_5KW_A_902

A3

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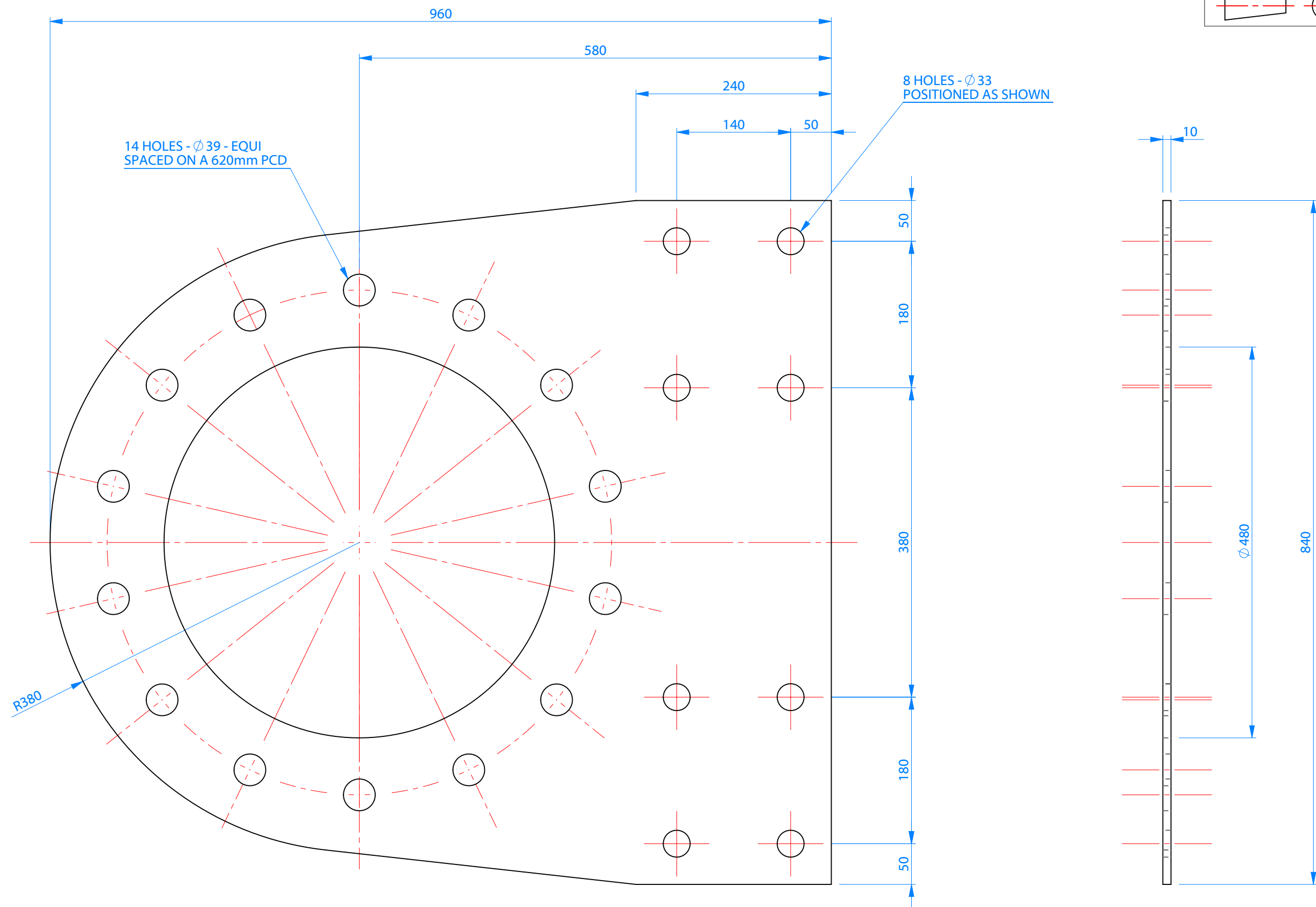


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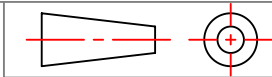
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						FINISH : GALVANISED															
						MASS (Kg.) : 3.01															
A	FOR MANUFACTURE	A.P.H	I.J.B	24/03/2010		 EVERITE ROAD, WIDNES, CHESHIRE, WA8 8PT		<table><tr><td>DRAWN : A.P.H</td><td>APP'D : I.J.B.</td><td>CHK'D : I.J.B.</td><td>SCALE : 1:2</td><td>DATE : 24/03/2010</td></tr><tr><td colspan="5">DWG No. : EVN_5KW_A_903</td></tr></table>					DRAWN : A.P.H	APP'D : I.J.B.	CHK'D : I.J.B.	SCALE : 1:2	DATE : 24/03/2010	DWG No. : EVN_5KW_A_903			
DRAWN : A.P.H	APP'D : I.J.B.	CHK'D : I.J.B.	SCALE : 1:2	DATE : 24/03/2010																	
DWG No. : EVN_5KW_A_903																					
REV.	DESCRIPTION	DRAWN	APP'D	DATE							A										



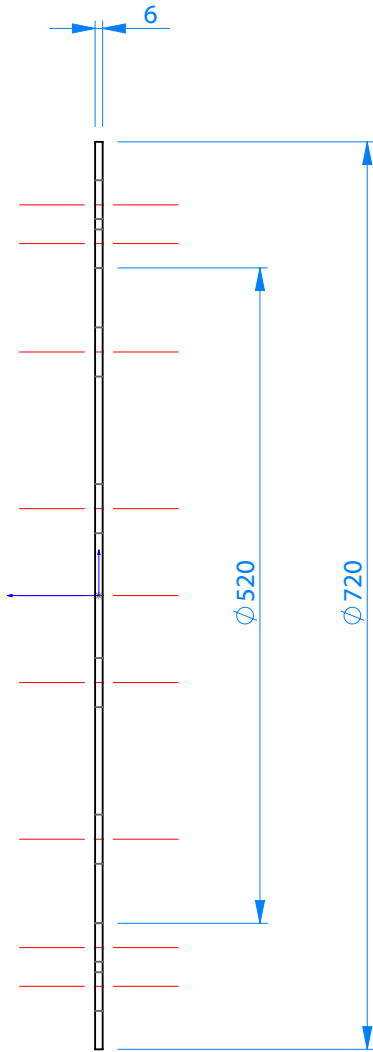
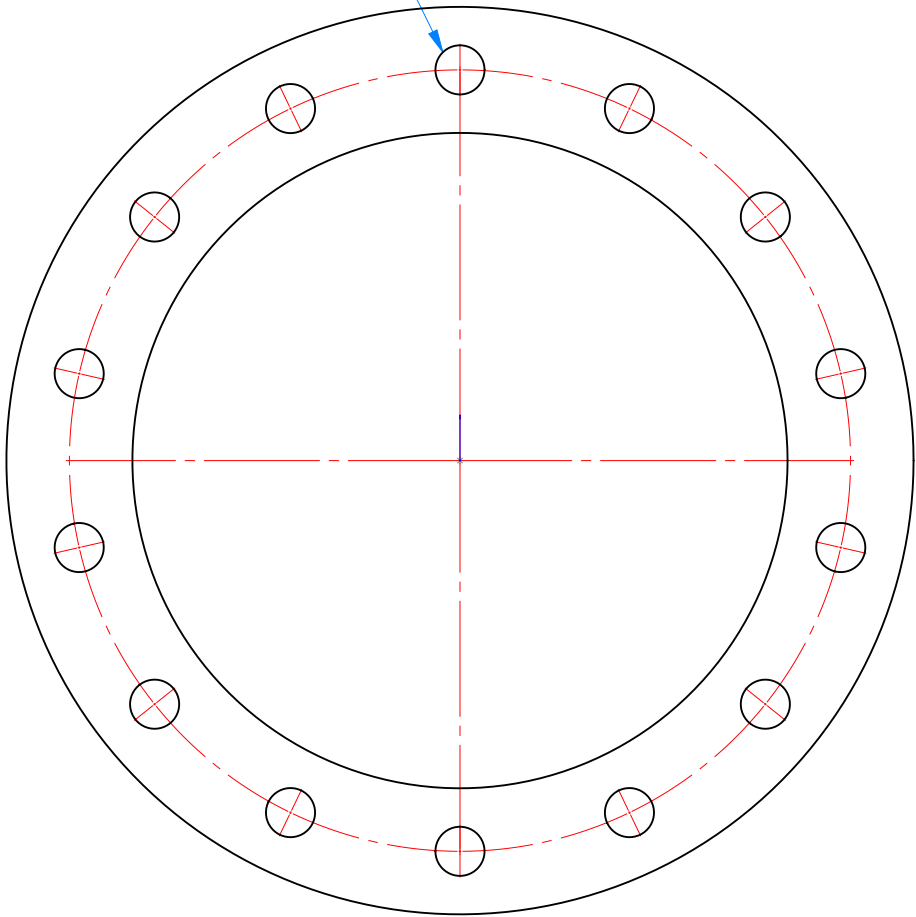
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						FINISH : NATURAL			<table><tr><td>DRAWN : A.P.H</td><td>APP'D : I.J.B.</td><td>CHK'D : I.J.B.</td><td>SCALE : 1:5</td><td>DATE : 23/03/2010</td></tr></table>						DRAWN : A.P.H	APP'D : I.J.B.	CHK'D : I.J.B.	SCALE : 1:5	DATE : 23/03/2010		
DRAWN : A.P.H	APP'D : I.J.B.	CHK'D : I.J.B.	SCALE : 1:5	DATE : 23/03/2010																	
A	FOR MANUFACTURE	A.P.H	I.J.B.	23/03/2010			MASS (Kg.) :		38.75	 EVERITE ROAD, WIDNES, CHESHIRE, WA8 8PT	<table><tr><td colspan="5">DWG No. : EVN_5kW_C_901</td></tr></table>					DWG No. : EVN_5kW_C_901					A
DWG No. : EVN_5kW_C_901																					
REV.	DESCRIPTION	DRAWN	APP'D	DATE																	



SITE REF. :

14 HOLES - ϕ 39 - EQUI
SPACED ON A 620mm PCD



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A	FOR MANUFACTURE	A.P.H	I.J.B	23/03/2010
REV.	DESCRIPTION	DRAWN	APP'D	DATE

NOTES :

- ALL DIMENSIONS ARE IN MILLIMETRES WITH LEVELS SHOWN IN METRES.
- ALL DIMENSIONS NOT TOLERANCED TO BE WITHIN $\pm 0.50\text{mm}$.
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- ALL BOLTS TO BE GRADE 8.8 SPUN GALVANISED TO BS 3692.
- ALL STEELWORK TO BE PICKLED AND HOT DIP GALVANISED IN ACCORDANCE WITH BS EN ISO:1461 (UNLESS OTHERWISE SPECIFIED).
- REMOVE ALL BURRS AND SHARP EDGES.

MATERIAL :

S275 STRUCTURAL STEEL

FINISH :

NATURAL

MASS (Kg.) :

8.33



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FAX. +44 (0)151 420 5100

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EVERITE ROAD,
WIDNES,
CHESHIRE,
WA8 8PT

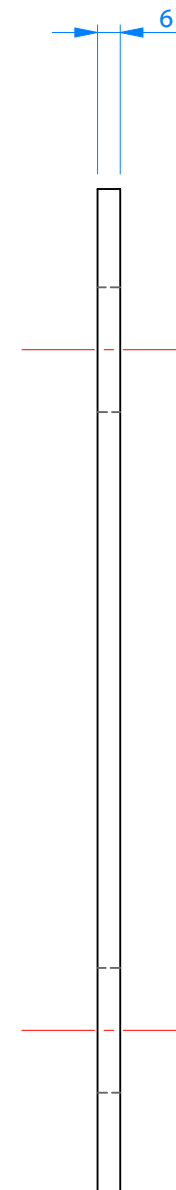
CLIENT : EVANCE
PROJECT : 12M & 15M 5KW GIN POLE H/D BOLT ASSEMBLY
TITLE : LOWER FOUNDATION RING

DRAWN : A.P.H	APP'D : I.J.B.	CHK'D : I.J.B.	SCALE : 1:6	DATE : 23/03/2010
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DWG No. :
EVN_5kW_C_902

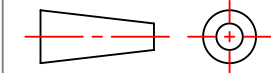
A3

A

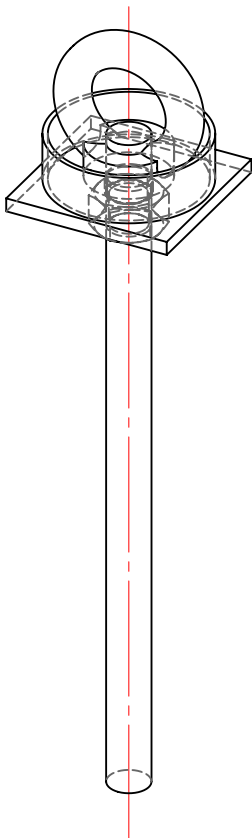
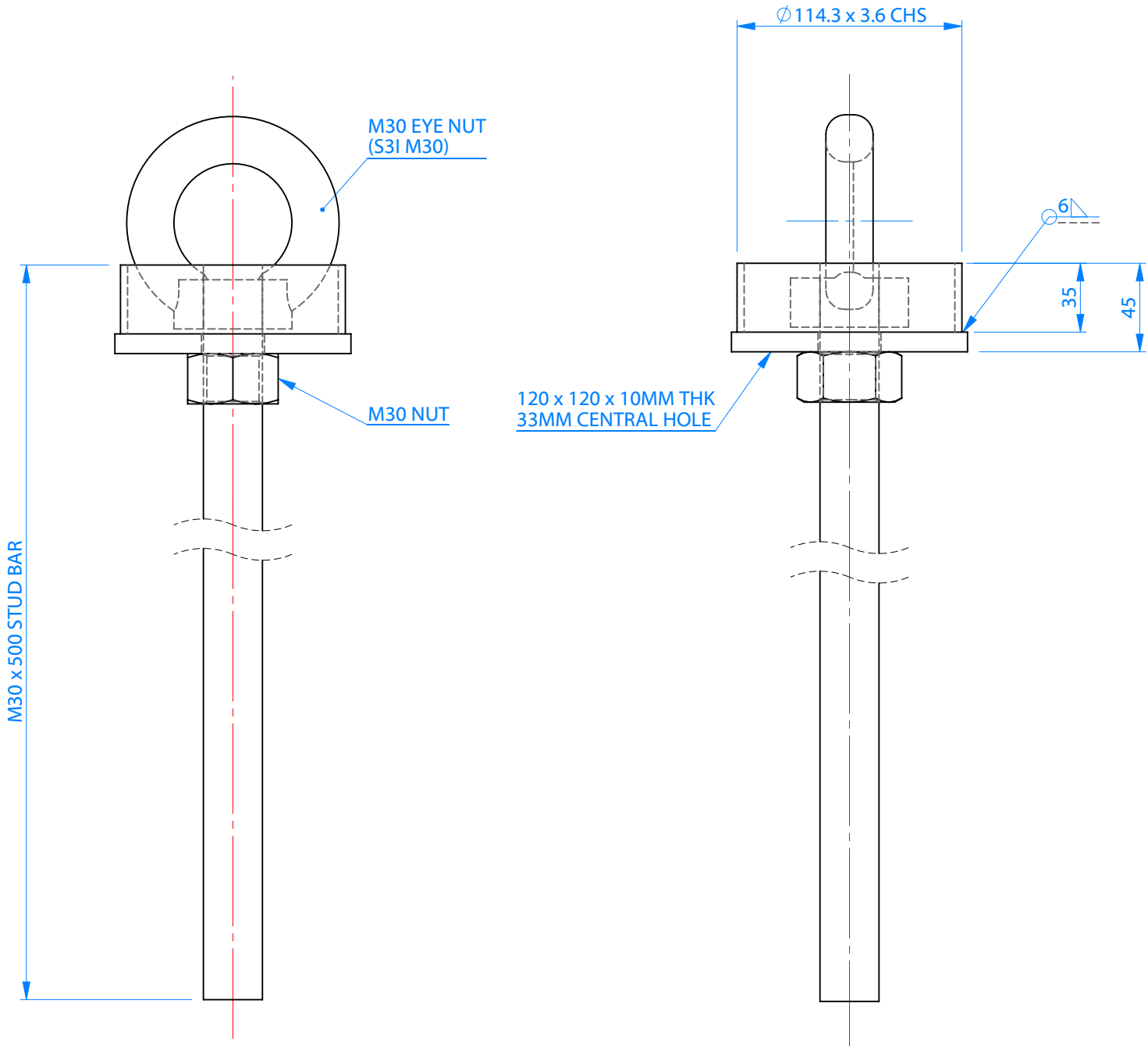


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					NOTES : 1. ALL DIMENSIONS ARE IN MILLIMETRES WITH LEVELS SHOWN IN METRES. 2. ALL DIMENSIONS NOT TOLERANCED TO BE WITHIN ±0.50mm. 3. STEELWORK TO BE TO BS 7668 OR BS EN 10113-1, GRADE S275 (UNLESS OTHERWISE SPECIFIED), & FABRICATED IN ACCORDANCE WITH BS 5950. 4. ALL BOLTS TO BE GRADE 8.8 SPUN GALVANISED TO BS 3692. 5. ALL STEELWORK TO BE PICKLED AND HOT DIP GALVANISED IN ACCORDANCE WITH BS EN ISO:1461 (UNLESS OTHERWISE SPECIFIED). 6. REMOVE ALL BURRS AND SHARP EDGES.	MATERIAL : S275 STRUCTURAL STEEL	 TEL. +44 (0)151 422 9990 FAX. +44 (0)151 420 5100 www.hutchinsononengineering.co.uk	CLIENT : EVANCE PROJECT : 12M & 15M SKW GIN POLE H/D BOLT ASSEMBLY TITLE : HINGE BOTTOM PLATE					A3			
								FINISH : NATURAL	 EVERITE ROAD, WIDNES, CHESHIRE, WA8 8PT	DRAWN : A.PH	APP'D : I.J.B.	CHK'D : I.J.B.		SCALE : 1:2	DATE : 23/03/2010	REVISION
A	FOR MANUFACTURE	A.P.H	I.J.B	23/03/2010						MASS (Kg.) : 2.69	DWG No.: EVN_5kW_C_903					
REV.	DESCRIPTION	DRAWN	APP'D	DATE												



SITE REF. :



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					NOTES : 1. ALL DIMENSIONS ARE IN MILLIMETRES WITH LEVELS SHOWN IN METRES. 2. ALL DIMENSIONS NOT TOLERANCED TO BE WITHIN ±0.50mm. 3. STEELWORK TO BE TO BS 7668 OR BS EN 10113-1, GRADE S275 (UNLESS OTHERWISE SPECIFIED), & FABRICATED IN ACCORDANCE WITH BS 5950. 4. ALL BOLTS TO BE GRADE 8.8 SPUN GALVANISED TO BS 3692. 5. ALL STEELWORK TO BE PICKLED AND HOT DIP GALVANISED IN ACCORDANCE WITH BS EN ISO:1461 (UNLESS OTHERWISE SPECIFIED). 6. REMOVE ALL BURRS AND SHARP EDGES.	MATERIAL : SEE DETAILS	hutchinson engineering TEL. +44 (0)151 422 9990 FAX. +44 (0)151 420 5100 www.hutchinsonengineering.co.uk nqa ISO 9001 Registered EVERITE ROAD, WIDNES, CHESHIRE, WA8 8PT	CLIENT : EVANCE PROJECT : EVANCE 5kW 12M / 15M WIND TURBINE STRUCTURE TITLE : FLUSH ANCHOR POINT ASSEMBLY FOR 12M & 15M GIN POLE STRUCTURES	A3		
						FINISH : GALVANISED					
						MASS (Kg.) : 5.40					
A	FOR MANUFACTURE	A.P.H	I.J.B	21/01/2010				DRAWN : A.P.H APP'D : I.J.B. CHK'D : I.J.B. SCALE : 1:3 DATE : 21/01/2010 DWG No.: EVN_5kW_A_701	REVISION	A	
REV.	DESCRIPTION	DRAWN	APP'D	DATE							