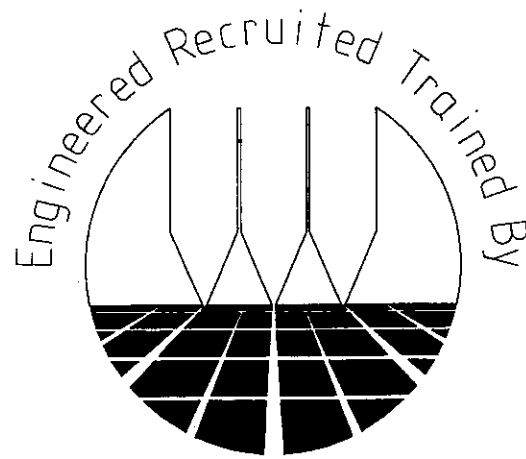


80M MAST VARIOUS LOCATIONS RIG RIGHT



AGB Group

DRAWING REGISTER	
DRAWING No	DESCRIPTION
7534G-DR-S01-A	TITLE SHEET & DRAWING REGISTER
7534G-DR-S02-A	GENERAL MAST LAYOUT
7534G-DR-S03-A	FOOTINGS DETAIL SHEET
7534G-DR-S04-A	MAST BASE DETAIL SHEET
7534G-DR-S05-A	MAST SECTION DETAIL SHEET
7534G-DR-S06-A	MAST SECTION ATTACHMENT DETAIL SHEET
7534G-DR-S07-A	GUY FIX CLEAT DETAIL SHEET
7534G-DR-S08-A	GENERAL NOTES

RISK MANAGEMENT

1. BEFORE UNDERTAKING ANY WORK, DEVELOP A RISK ASSESSMENT PROGRAM FOR EACH SPECIFIC JOB, A JOB SAFETY ANALYSIS (JSA) SHOULD DOCUMENT THE PROCESS AND PROCEDURE. WHEN DEVELOPING THIS PROGRAM IT IS RECOMMENDED TO REFER TO THE AUSTRALIAN STANDARDS HIERARCHY OF CONTROLS:
 - A. IDENTIFY ALL OF THE IMMEDIATE AND POTENTIAL HAZARDS
 - B. ELIMINATE THE HAZARDS IF POSSIBLE
 - C. IF YOU CANNOT ELIMINATE THE HAZARD, CHANGE THE WAY THE WORK IS UNDERTAKEN TO AVOID EXPOSURE TO THE RISK
 - D. IF EXPOSURE TO THE RISK CANNOT BE AVOIDED BY CHANGING YOUR WORK PRACTICES, USE ENGINEERED CONTROLS TO CONTAIN OR MINIMIZE THE HAZARD.
 - E. ALWAYS USE PERSONAL FALL PROTECTION TO WORK SAFELY AT HEIGHT.
 - F. TRAINING

OCCUPATIONAL HEALTH AND SAFETY

1. BUILDER TO ENSURE OCCUPATIONAL HEALTH AND SAFETY ON SITE DURING THE CONSTRUCTION PROCESS INCLUDING BUT NOT LIMITED TO PROPPING, SHORING, SCAFFOLDING, STABILITY OF THE STRUCTURE, AND ERECTION.
2. BUILDER TO PROVIDE ENGINEERING COMPUTATIONS & CERTIFICATION PRIOR TO CONSTRUCTION FOR ALL TEMPORARY STRUCTURES INVOLVED IN THE CONSTRUCTION PROCESS INCLUDING BUT NOT LIMITED TO PROPPING, SHORING AND SCAFFOLDING THAT MAY CAUSE RISK TO THE PROJECT.

NOTES:

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4. MATERIAL AND WORKMANSHIP SHALL CONFORM TO RELEVANT CURRENT S.A. CODES AND THE PROJECT SPECIFICATIONS.

REVISIONS

REV.	Date	Drawn	Checked	Design	Scale	Description
A	10/07					ISSUED FOR REVIEW

CLIENT	RIG RIGHT
PROJECT	80M MAST
DRAWING TITLE	TITLE SHEET & DRAWING REGISTER
DRAWING No.	7534G-DR-S01
REV.	A



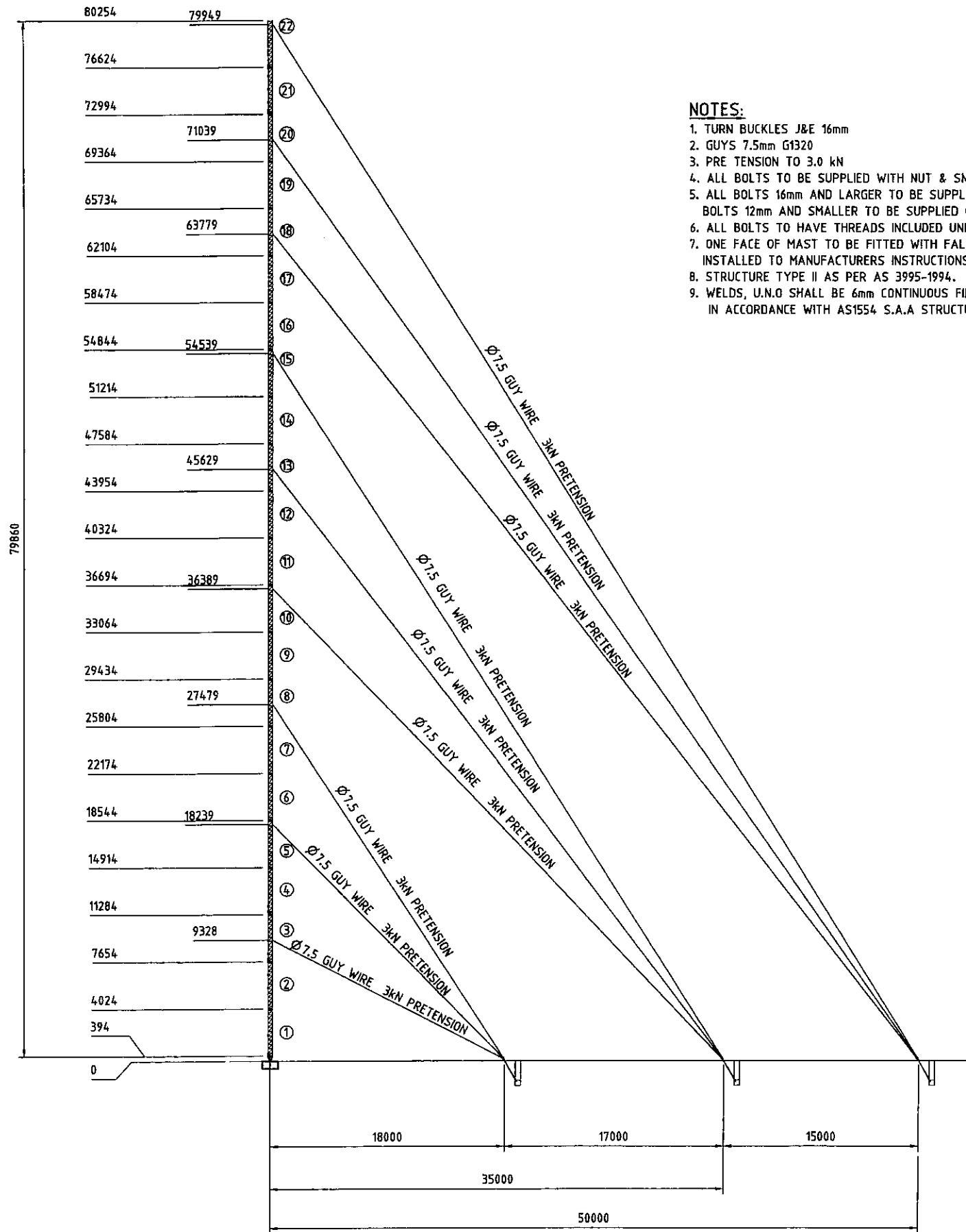
STRUCTURAL
CIVIL
MECHANICAL
ELECTRICAL
INDUSTRIAL
HYDRAULIC
FIRE

HVAC
ENVIRONMENT
ENERGY RATING
RISK MANAGEMENT
OH & S
RECRUITMENT
TRAINING

31 BARWON TERRACE, SOUTH GEELONG
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WEB: www.agbgroup.com.au
EMAIL: geelong@agbgroup.com.au

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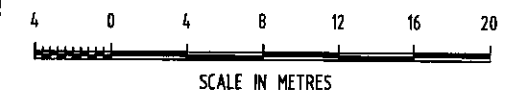


NOTES:

1. TURN BUCKLES J&E 16mm
2. GUYS 7.5mm G1320
3. PRE TENSION TO 3.0 kN
4. ALL BOLTS TO BE SUPPLIED WITH NUT & SNUG TIGHTENED
5. ALL BOLTS 16mm AND LARGER TO BE SUPPLIED G8.8 WITH SPRING WASHERS, BOLTS 12mm AND SMALLER TO BE SUPPLIED G4.6 WITH FLAT WASHER U.N.O
6. ALL BOLTS TO HAVE THREADS INCLUDED UNLESS INDICATED BY X/S
7. ONE FACE OF MAST TO BE FITTED WITH FALL ARREST DEVICE AT 8m INTERVALS INSTALLED TO MANUFACTURERS INSTRUCTIONS.
8. STRUCTURE TYPE II AS PER AS 3995-1994.
9. WELDS, U.N.O SHALL BE 6mm CONTINUOUS FILLET SP WELDS. ALL WELDING SHALL BE IN ACCORDANCE WITH AS1554 S.A.A STRUCTURAL WELDING CODE.

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REVISIONS						
REV	Date	Drawn	Checked	Design	By	DESCRIPTION
A	10/07					ISSUED FOR REVIEW

CLIENT	RIGRIGHT	
PROJECT	80 METER MAST	
DRAWING TITLE	GENERAL MAST LAYOUT	
DRAWING No.	7534G-DR-S02	REV. A

STRUCTURAL
CIVIL
MECHANICAL
ELECTRICAL
INDUSTRIAL
HYDRAULIC
FIRE

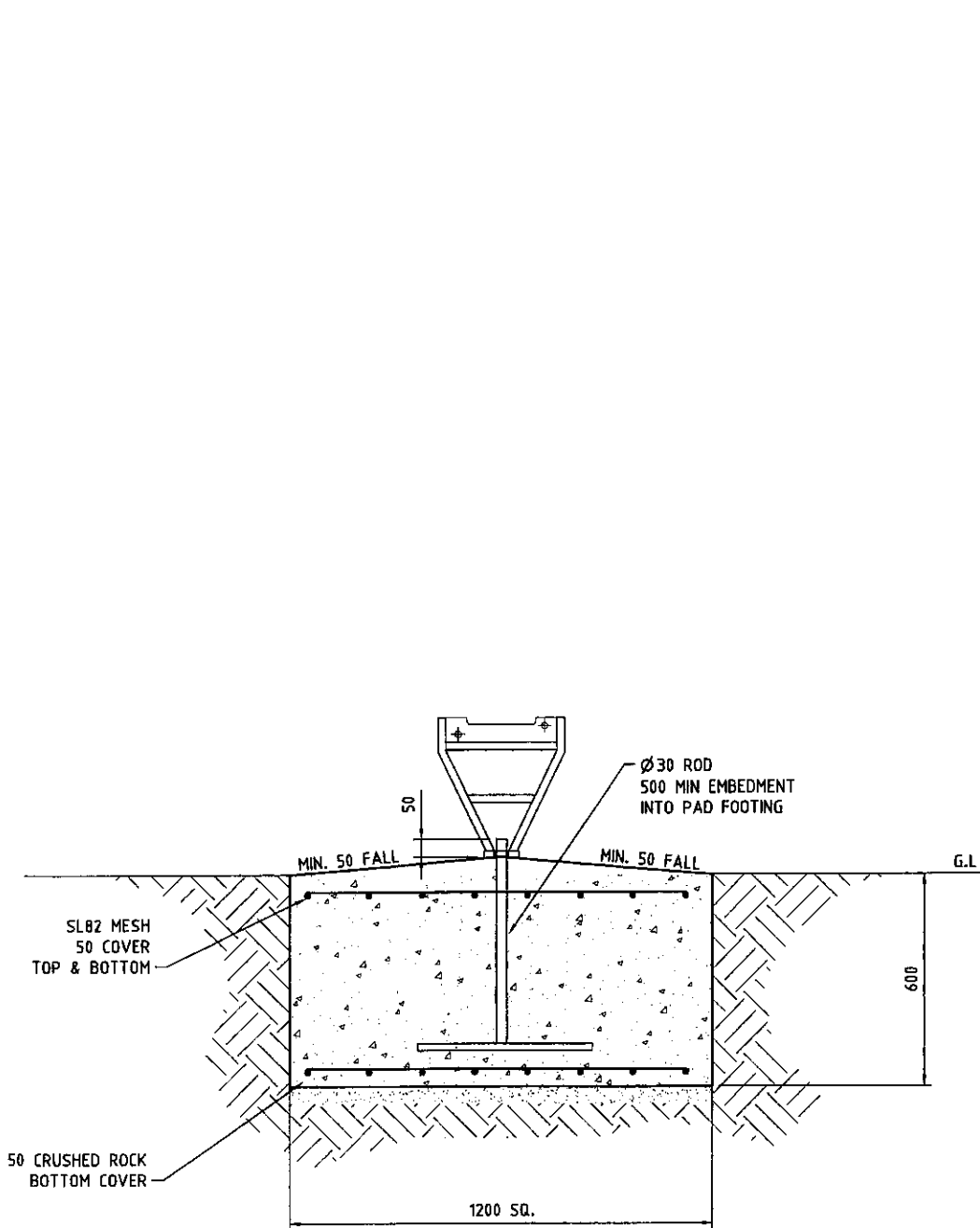
HVAC
ENVIRONMENT
ENERGY RATING
RISK MANAGEMENT
OH & S
RECRUITMENT
TRAINING

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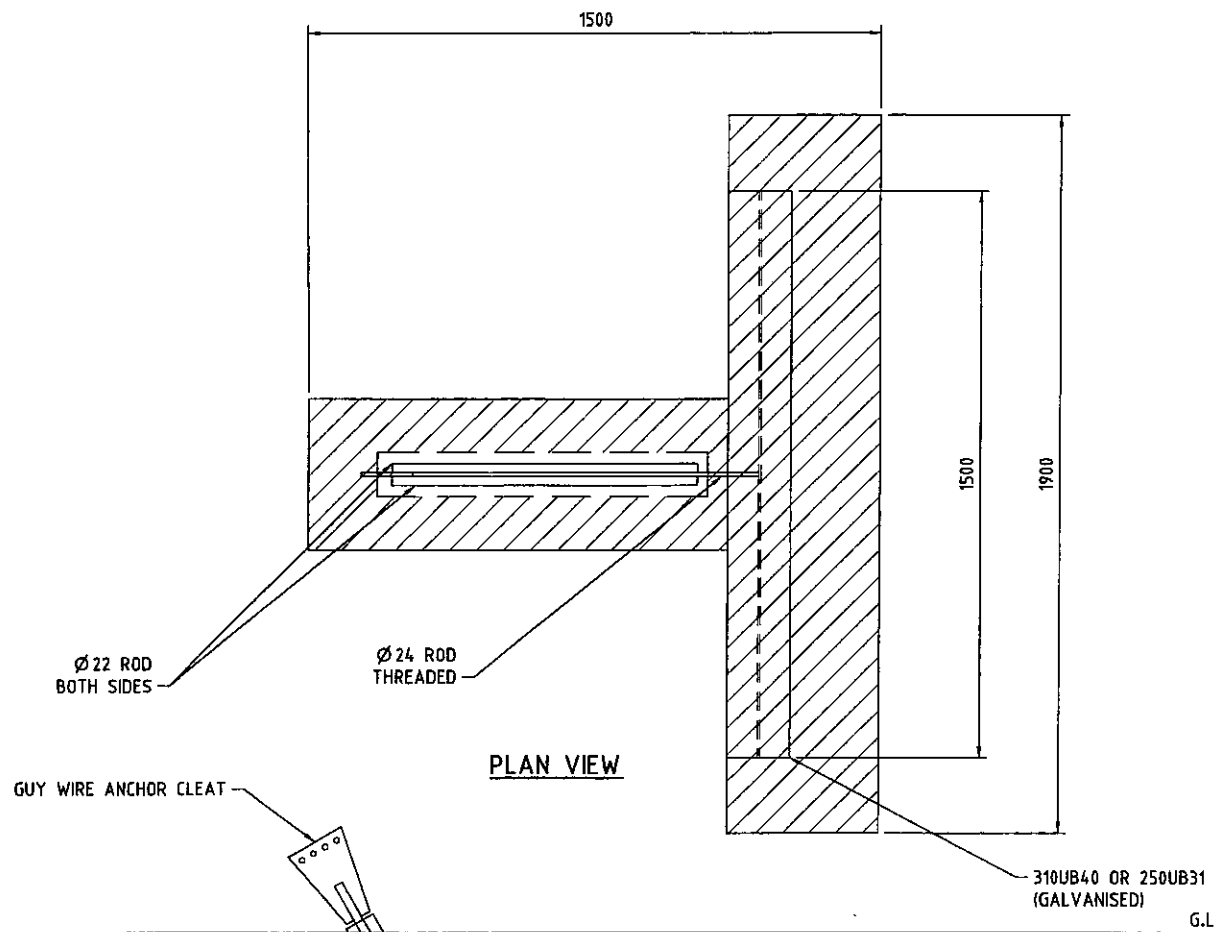
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FAX: (03) 5221 8675
WEB: www.agbgroup.com.au
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GENERAL MAST LAYOUT

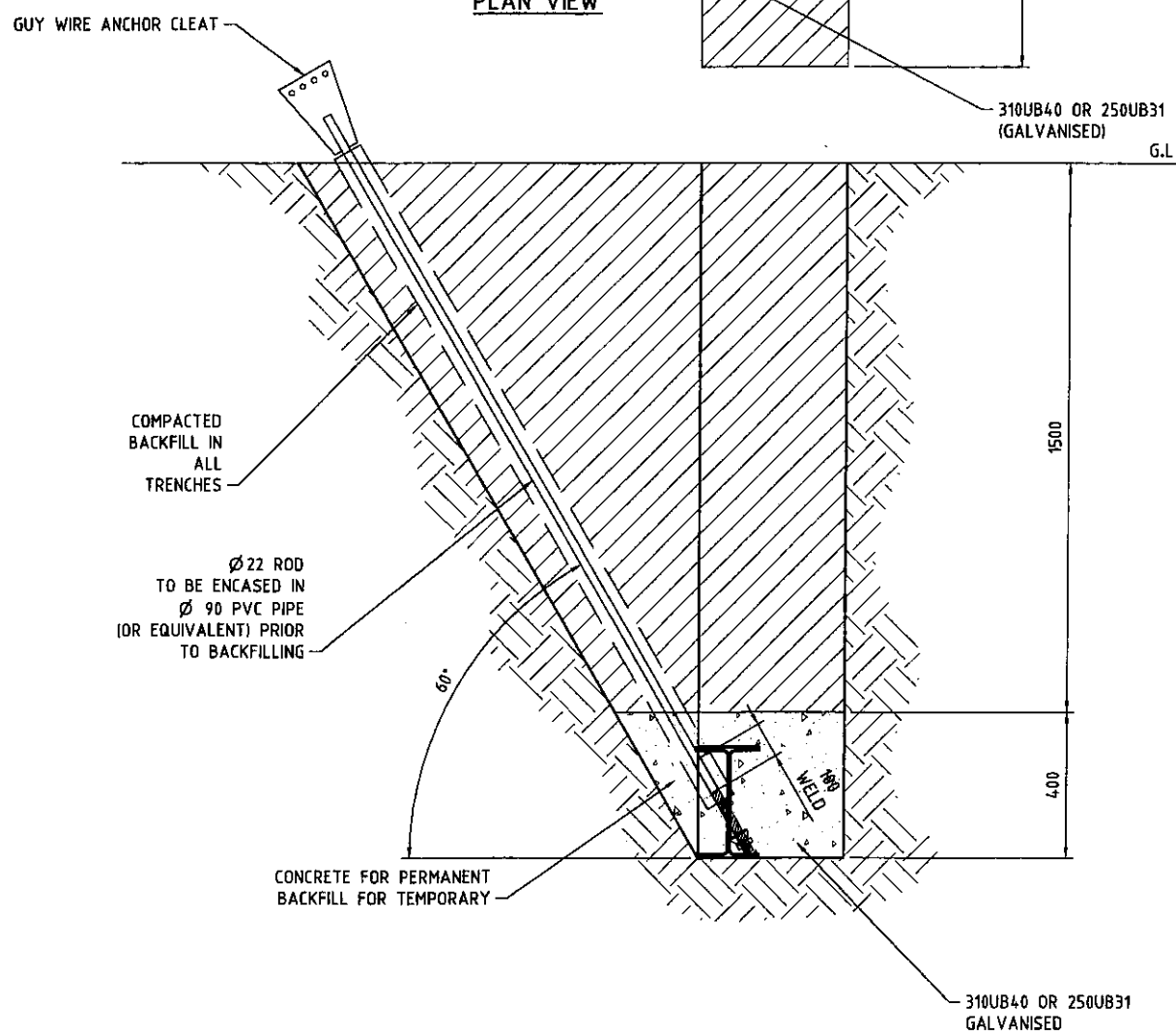
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TYPICAL MAST BASE FOOTING DETAIL



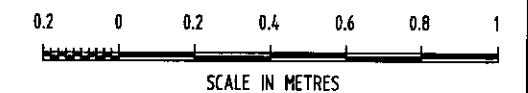
PLAN VIEW



TYPICAL GUY ANCHOR FOOTING DETAIL

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REVISIONS						
REV.	Date	Drawn	Checked	Design	Approved	DESCRIPTION
A	10/07	DF				ISSUED FOR REVIEW

CLIENT	RIGRIGHT	
PROJECT	80 METER MAST	
DRAWING TITLE	FOOTINGS DETAIL SHEET	
DRAWING No.	7534G-DR-S03	REV. A



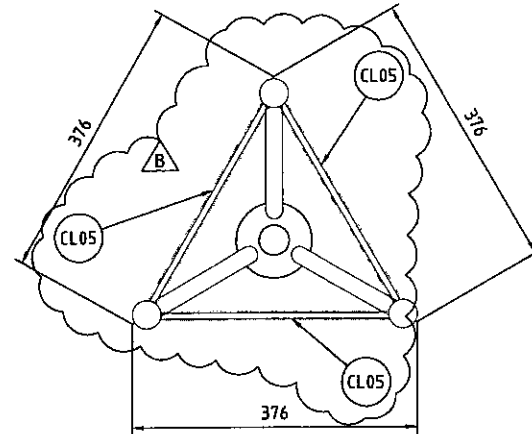
AGB Group
A.C.N. 000 672 461

STRUCTURAL	HVAC
CIVIL	ENVIRONMENT
MECHANICAL	ENERGY RATING
ELECTRICAL	RISK MANAGEMENT
INDUSTRIAL	OH & S
HYDRAULIC	RECRUITMENT
FIRE	TRAINING

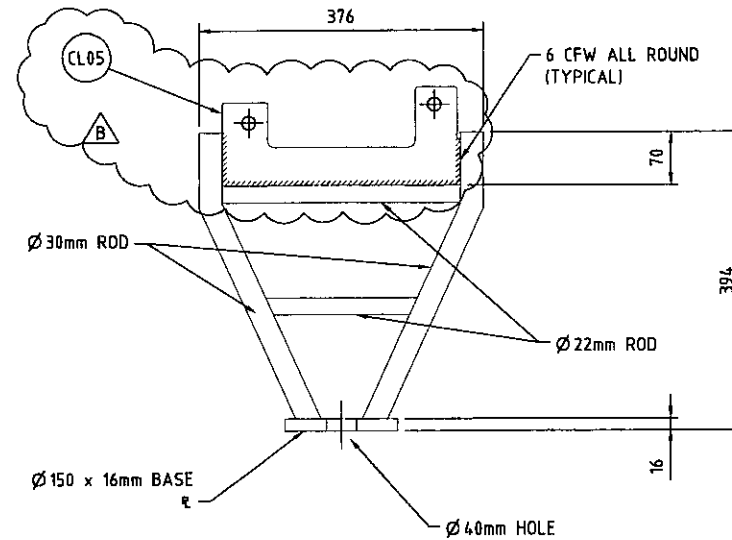
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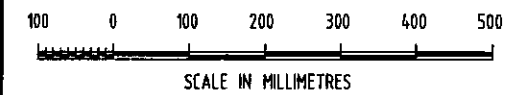
TOP VIEW



MAST BASE DETAIL

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REVISIONS

REV.	Date	Drawn	Checked	Design	Scale	Appr'd	DESCRIPTION
A	10/07	HF	-	JD	DL	EA	ISSUED FOR REVIEW
B	02/08	HF	-				RE-ISSUED FOR REVIEW

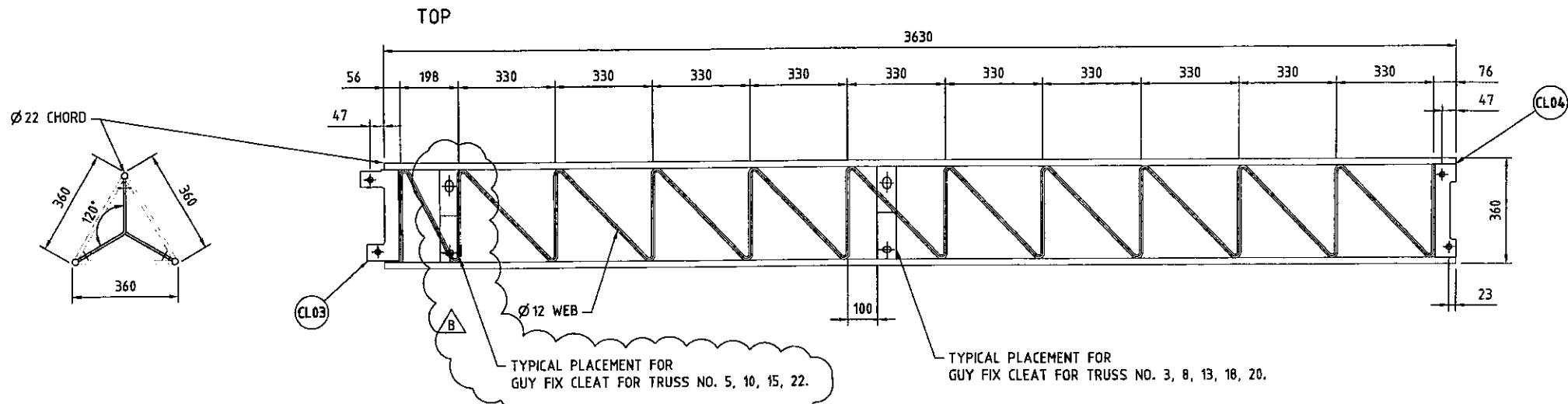
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PROJECT	80 METER MAST
DRAWING TITLE	MAST BASE DETAIL SHEET
DRAWING No.	7534G-DR-S04
REV.	B



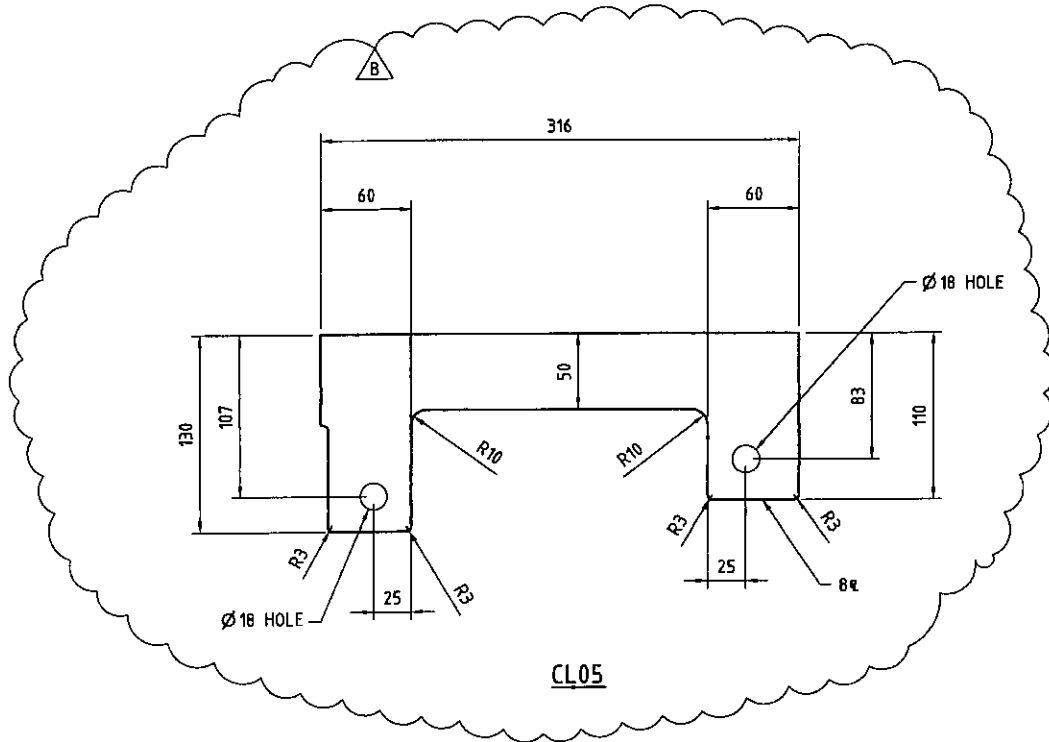
- | | |
|------------|-----------------|
| STRUCTURAL | HVAC |
| CIVIL | ENVIRONMENT |
| MECHANICAL | ENERGY RATING |
| ELECTRICAL | RISK MANAGEMENT |
| INDUSTRIAL | OH & S |
| HYDRAULIC | RECRUITMENT |
| FIRE | TRAINING |

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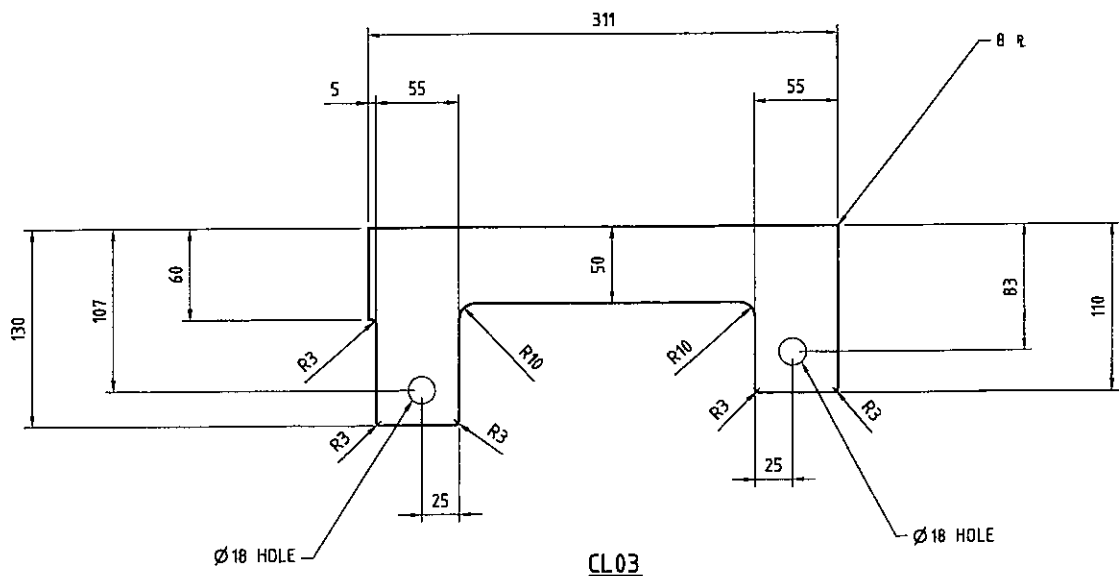
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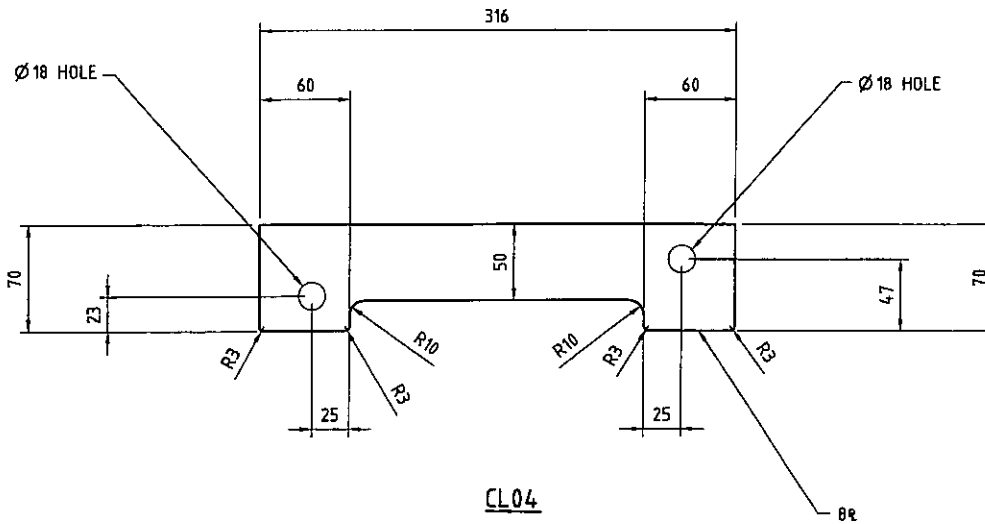
3630 TYPICAL MAST SECTION



CL05



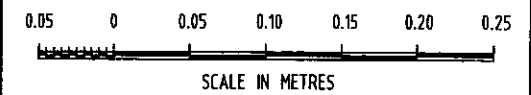
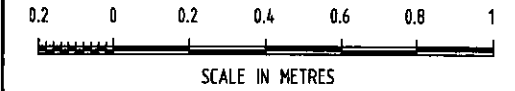
CL03



CL04

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REVISIONS

REV.	Date	Drawn	Checked	Design	Spec.	Approved	Description
A	10/07	JF	-	JD	DL	TA	ISSUED FOR REVIEW
B	02/08	-	-	-	-	-	RE-ISSUED FOR REVIEW

CLIENT **RIGRIGHT**

PROJECT **80 METER MAST**

DRAWING TITLE **MAST SECTION
DETAIL SHEET**

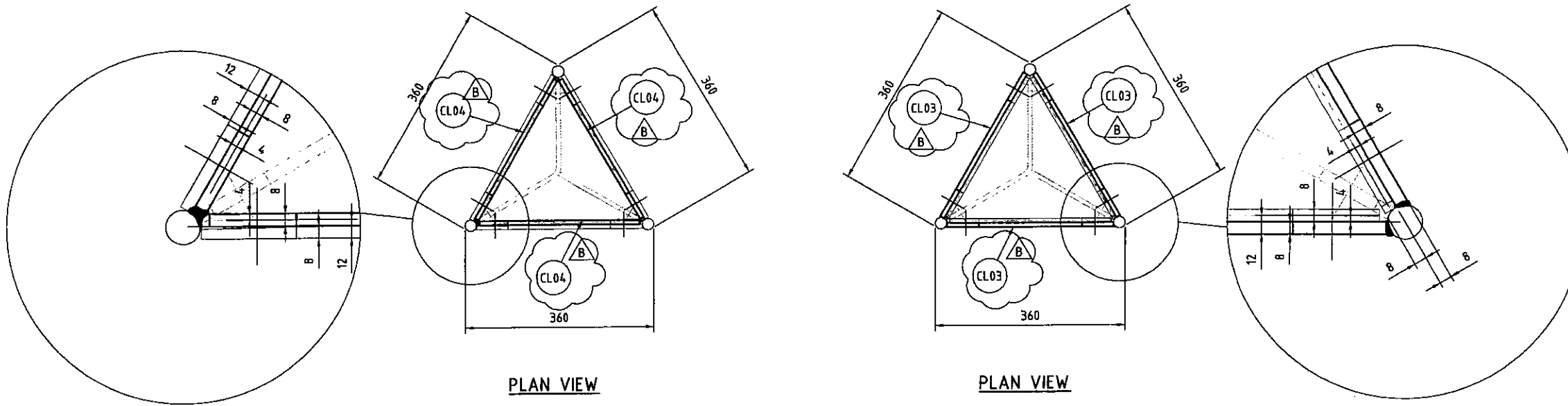
DRAWING No. **7534G-DR-S05** REV. **B**



STRUCTURAL **HVAC**
CIVIL **ENVIRONMENT**
MECHANICAL **ENERGY RATING**
ELECTRICAL **RISK MANAGEMENT**
INDUSTRIAL **OH & S**
HYDRAULIC **RECRUITMENT**
FIRE **TRAINING**

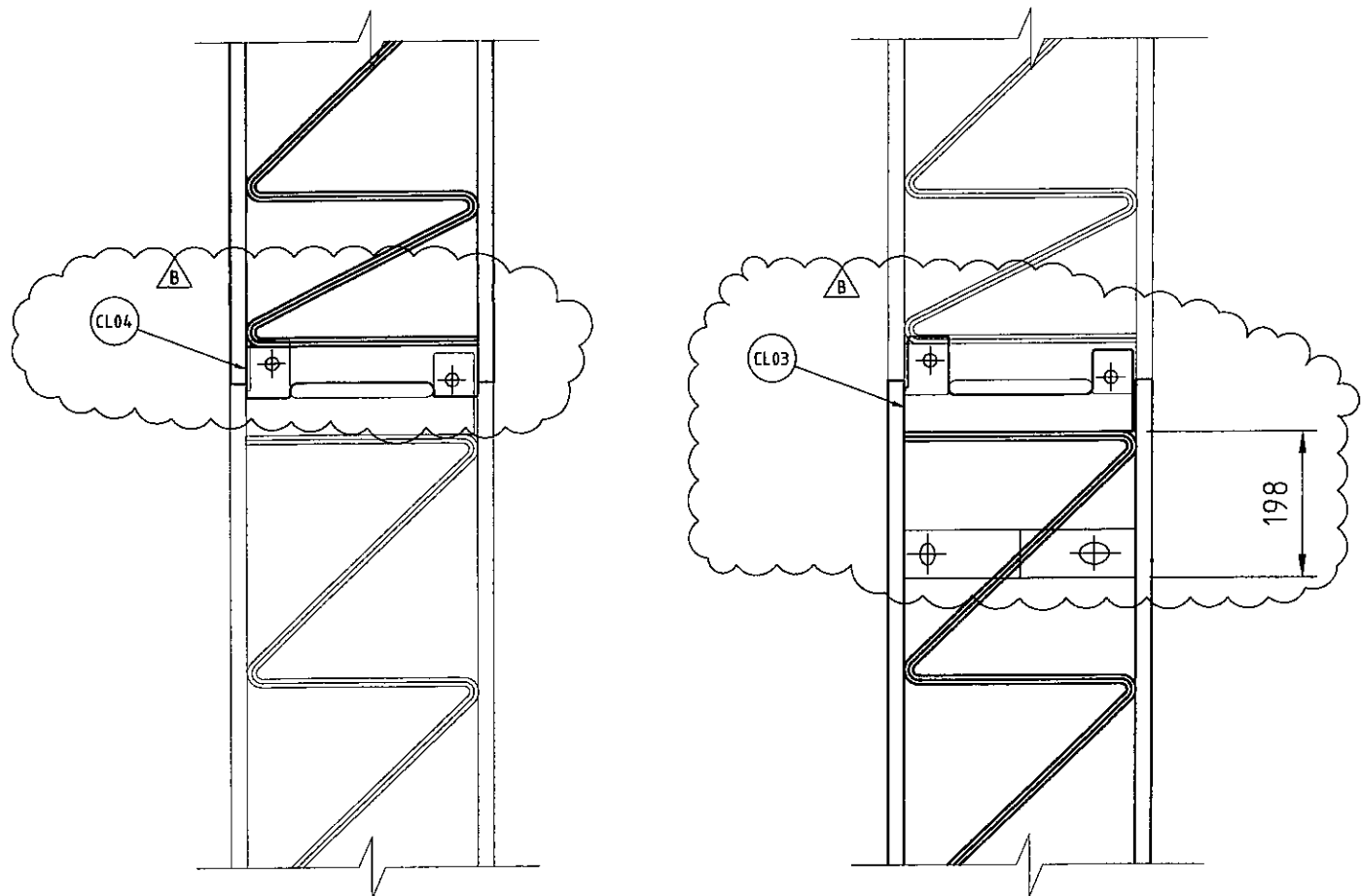
31 BARWON TERRACE, PHONE: (03) 5221 2611
SOUTH GEELONG, SOUTH GEELONG, FAX: (03) 5221 8675
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PLAN VIEW

PLAN VIEW

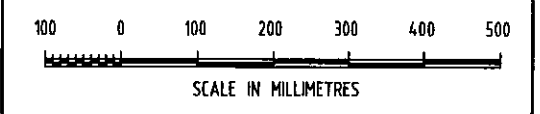


BOTTOM MAST ATTACHMENT DETAIL

TOP MAST ATTACHMENT DETAIL

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REVISIONS							
REV	Date	Drawn	Checked	Design	Scale	PC	DESCRIPTION
A	10/07	HF	-	JD	DL	TA	ISSUED FOR REVIEW
B	02/08	HF	-				RE-ISSUED FOR REVIEW

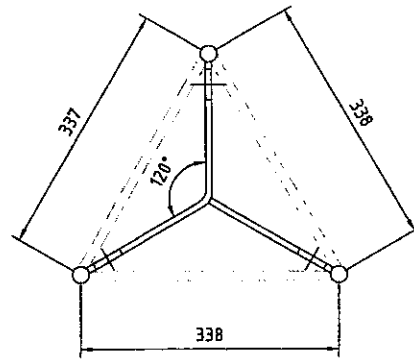
CLIENT	RIGRIGHT
PROJECT	80 METER MAST
DRAWING TITLE	MAST SECTION ATTACHMENT DETAIL SHEET
DRAWING No.	7534G-DR-S06
REV.	B

STRUCTURAL
CIVIL
MECHANICAL
ELECTRICAL
INDUSTRIAL
HYDRAULIC
FIRE

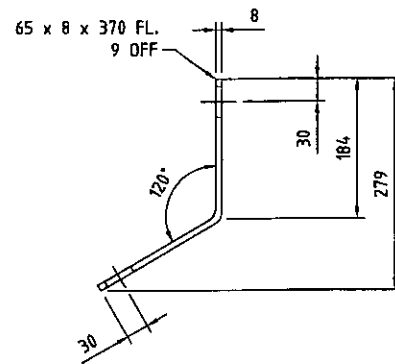
HVAC
ENVIRONMENT
ENERGY RATING
RISK MANAGEMENT
OH & S
RECRUITMENT
TRAINING

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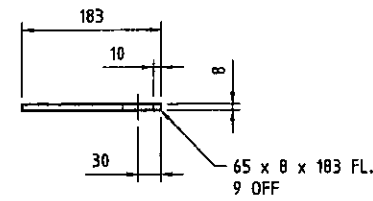
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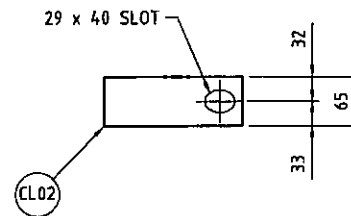
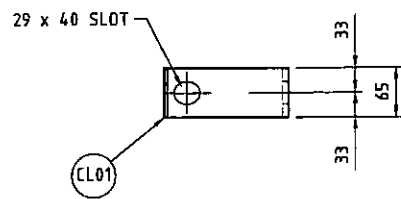
END VIEW



PLAN VIEW



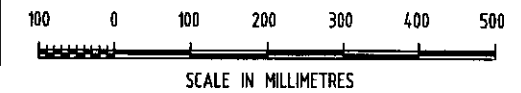
PLAN VIEW



GUY FIX CLEAT FOR 80 METER MAST

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REVISIONS						
REV	Date	Drawn	Checked	Disc.	Appr.	DESCRIPTION
A	10/07					ISSUED FOR REVIEW

CLIENT	RIGRIGHT	
PROJECT	80 METER MAST	
DRAWING TITLE	GUY FIX CLEAT DETAIL SHEET	
DRAWING No.	7534G-DR-S07	REV. A



- | | |
|------------|-----------------|
| STRUCTURAL | HVAC |
| CIVIL | ENVIRONMENT |
| MECHANICAL | ENERGY RATING |
| ELECTRICAL | RISK MANAGEMENT |
| INDUSTRIAL | OH & S |
| HYDRAULIC | RECRUITMENT |
| FIRE | TRAINING |

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DESIGN LOADS:

1. WIND LOAD: REGION = A
TERRAIN CATEGORY - 1
RETURN PERIOD - 25 YRS.
DESIGN WORKING LIFE - 5 YRS.
MULTIPLICATION FACTORS:
Ms - 1.0
Mt - 1.0
Mz - 1.27
VELOCITY - Vs = 37 m/s
Vu = 37 m/s

FOUNDATIONS & FOOTINGS:

1. FOUNDATION DESIGN IS BASED ON A SAFE BEARING CAPACITY OF 100 KPA.
2. FOOTING EXCAVATIONS SHALL BE TRUE TO SHAPE AND FREE OF ALL LOOSE MATERIAL.
3. THE CONTRACTOR SHALL PROVIDE A BLINDING LAYER OF 15MPA CONCRETE, 50mm THICK MINIMUM BENEATH ALL PAD FOOTINGS PRIOR TO INSTALLING MOISTURE BARRIER AND REINFORCEMENT.
4. WHERE FILL OR BACKFILL IS REQUIRED THIS SHALL BE EXECUTED IN APPROVED IMPORTED MATERIAL SUCH AS CRUSHED ROCK AND BE DEPOSITED IN LAYERS NOT EXCEEDING 150mm THICK, EACH LAYER BEING WELL COMPACTED TO 95% A.A.S.H.O. TEST BEFORE THE NEXT IS PLACED.

REINFORCEMENT:

1. REINFORCEMENT IS SHOWN DIAGRAMMATICALLY AND IS DENOTED AS FOLLOWS: BAR NOTATION PREFIX LETTER FOLLOWED BY BAR DIAMETER IN MILLIMETRES.
R - STRUCTURAL GRADE PLAIN ROUND BAR
N - DEFORMED BAR, GRADE 410Y, ALL BARS TO AS 1302,
SL - HARD DRAWN WIRE FABRIC, ALL FABRIC TO AS 1304.
2. CLEAR CONCRETE COVER TO REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL BE AS FOLLOWS:
FOOTINGS COLUMNS BEAMS SLABS
PAD STRIP & WALLS
CAST AGAINST FORMS) SHELTERED - - 40 25 20
TO AS 3610) EXPOSED 65 50 50 40 30
CAST AGAINST GROUND 75 65 75 65 65
3. ALL REINFORCEMENT SHALL BE FIRMLY HELD IN ITS REQUIRED POSITION AND ADEQUATELY SUPPORTED BY APPROVED CHAIRS AT APPROXIMATELY 750mm CENTRES.
4. SPLICES IN REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL BE BY LAPPING AS FOLLOWS:
GRADE 230R BARS - 65 DIAMETERS,
GRADE 410Y BARS - 60 DIAMETERS.
5. SIDE SPLICES IN ALL FABRIC REINFORCEMENT AND END SPLICES IN SQUARE FABRIC REINFORCEMENT SHALL BE BY OVERLAPPING SO THAT THE CROSS-WIRE OF ONE SHEET COMES INTO CONTACT WITH THE NEXT-TO-END CROSS-WIRE OF THE OTHER SHEET. END SPLICES IN RECTANGULAR FABRIC REINFORCEMENT SHALL BE EQUIVALENT TO TWICE THE CROSS-WIRE SPACING PLUS 25mm.
6. TOLERANCES FOR FIXING OF REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL BE:
MEMBER THICKNESS LESS THAN 600mm +/- 5mm,
MEMBER THICKNESS GREATER THAN 600mm +/- 10mm

CONCRETE:

1. CONCRETE DESIGN STRENGTH (F'c AT 28 DAYS) AND BASIC MIX DETAILS, UNLESS OTHERWISE NOTED, SHALL BE AS FOLLOWS:
GRADE 25 SLUMP 80 +/- 15 MAX.AGG.SIZE 20
FOR ALL CONCRETE.
2. CONCRETE IN FLOOR SLABS SHALL BE SUPPLIED WITH AN APPROVED WATER REDUCING ADDITIVE, USED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE NOTED.
3. ALL HOLES AND CHASES IN CONCRETE NOT SPECIFICALLY DETAILED SHALL BE TO THE ENGINEER'S APPROVAL.
4. FORMWORK SHALL BE CONSTRUCTED TO AS 3610 S.A.A. FORMWORK CODE AND BE RIGID AND WATERTIGHT. THE BOTTOM OF FORMS FOR BEAMS SHALL HAVE A CAMBER OF 2mm FOR EVERY 1000mm OF SPAN, UNLESS OTHERWISE NOTED.
5. CONSTRUCTION JOINT LOCATIONS NOT SHOWN ON THE DRAWINGS SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED.
6. ALL CONCRETE SHALL BE THOROUGHLY COMPACTED BY MEANS OF APPROVED MECHANICAL VIBRATORS TO REMOVE ALL ENTRAINED AIR AND COMPLETELY FILL THE ENCLOSED SPACE.
7. CURING OF THE CONCRETE SHALL BE IN ACCORDANCE WITH AS 3600, S.A.A. CONCRETE STRUCTURES CODE. CURING SHALL BE BY THE APPLICATION OF AN APPROVED CURING COMPOUND OR BY COVERING WITH POLYTHENE SHEETING FOR AT LEAST 7 DAYS.
8. ALL CONCRETE SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH AS3600.
9. IN SCHEDULES, DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS. BEAMS AND SLABS TO BE POURED TOGETHER. SPECIFIED SIZES DO NOT INCLUDE FINISHES OR SCREEDS.

STRUCTURAL STEELWORK:

1. TWO COPIES OF THE SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER TWO WEEKS PRIOR TO THE PROPOSED COMMENCEMENT OF FABRICATION AND NO WORK SHALL COMMENCE UNTIL THE SHOP DRAWINGS ARE APPROVED. APPROVAL OF SHOP DRAWINGS IN NO WAY REDUCES THE CONTRACTORS RESPONSIBILITIES TO THEIR CORRECTNESS.
2. WELDS, UNLESS OTHERWISE NOTED, SHALL BE 6mm MINIMUM CONTINUOUS FILLET SP WELDS. ALL WELDING SHALL BE IN ACCORDANCE WITH AS1554 S.A.A. STRUCTURAL WELDING CODE.
3. UNLESS OTHERWISE NOTED, BOLTS SHALL BE 16mm DIAMETER 4.6/5 MINIMUM, AND SHALL BE INSTALLED WITH ONE WASHER AND ONE NUT. HOLES SHALL BE 2mm CLEARANCE CIRCULAR. GUSSET AND CLEAT PLATES SHALL BE 8mm THICK MINIMUM. ALL BOLTS, NUTS AND WASHERS, UNLESS OTHERWISE NOTED, SHALL BE GALVANISED.
4. BOLTS MARKED 4.6/5 SHALL BE MILD STEEL BOLTS INSTALLED SNUG TIGHT. BOLTS MARKED 8.8/5 SHALL BE HIGH STRENGTH BOLTS INSTALLED SNUG TIGHT. BOLTS MARKED 8.8/TB AND 8.8/TF SHALL BE HIGH STRENGTH BOLTS FULLY TORQUED IN ACCORDANCE WITH AS1511 USING LOAD INDICATOR WASHERS. ALL BOLTS, NUTS, WASHERS AND METHODS OF INSTALLATION ETC., SHALL BE IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARD.
5. ALL CLEATS AND DRILLINGS FOR FIXING TIMBER AND NON-STRUCTURAL MEMBERS SHALL BE PROVIDED BY THE FABRICATOR.
6. STEELWORK, OTHER THAN CONCRETE ENCASED STEELWORK, SHALL BE POWER TOOL OR SAND BLASTED CLEANED, ALL WELD SLAG REMOVED, AND GIVEN ONE COAT OF APPROVED METALLIC PRIMER AT LEAST 48 HOURS PRIOR TO DESPATCH FROM THE FABRICATORS YARD.
7. CONCRETE ENCASED STEELWORK SHALL BE UNPAINTED AND ENCLOSED WITH F41 MESH AND, UNLESS OTHERWISE NOTED, PLACED CENTRALLY IN 50mm MINIMUM CONCRETE ENCASEMENT. ALL STEELWORK BELOW GROUND TO BE ENCASED IN MINIMUM 75mm CONCRETE.
8. CAMBER TO BEAMS, TRUSSES AND PORTALS SHALL BE 2mm FOR EVERY 1000mm OF SPAN, UNLESS OTHERWISE NOTED. CAMBER FOR CANTILEVERS SHALL BE 5mm FOR EVERY 1000mm OF LENGTH.
9. TOLERANCES FOR FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODE.
10. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY ERECTION BRACING, ETC., NECESSARY FOR THE SAFE ERECTION OF THE PROJECT.

REVISIONS				
REV.	Date	By	Checked	DESCRIPTION
A	18/07	[Signature]	[Signature]	ISSUED FOR REVIEW

CLIENT: RIG RIGHT

PROJECT: 80M MAST

DRAWING TITLE: STRUCTURAL GENERAL NOTES

DRAWING No. 7534G-DR-S08 REV. A



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