# **CIRRUS COMMUNICATION POLE** A3/23 - 107 ERSKINE PARK ROAD, ERSKINE PARK, NSW

## GENERAL (G)

- G01. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER
  WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
- G02. THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR STRUCTURAL ENGINEERING PURPOSES ONLY. IN ALL OTHER MATTERS, THE APPROVED ARCHITECTS' DRAWINGS SHALL TAKE PRECEDENCE. ALL DISCREPANCIES THAT COULD RESULT IN CHANGES TO THE STRUCTURAL DETAILS SHALL BE REFERRED. TO THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. IF IN DOUBT - ASK.
- G03. CONSTRUCTION FROM THESE DRAWINGS AND ASSOCIATED CONSULTANTS' DRAWINGS SHALL NOT COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES.
- G04. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIAN STANDARDS AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT
- G05. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE.
  ENGINEERS' DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
- G06. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- G07. THE BUILDER SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS
- G08. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN
- G09. THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND LOCAL GOVERNMENT ORDINANCES FOR THE
- G10. ALL EXISTING SERVICES AND UTILITIES SHALL BE LOCATED, EXPOSED, LEVELED AND RECORDED PRIOR TO COMMENCEMENT OF ANY WORKS, ALL INFORMATION SHOWING SERVICES AND UTILITIES IS FOR GUIDANCE ONLY AND ITS ACCURACY IS NOT



**ROOF LAYOUT PLAN** NOT TO SCALE

#### **DRAWING LIST**

COVER SHEET & NOTES

COMMUNICATION POLE LOCATION PLAN

## STRUCTURAL STEEL (SS)

- S01. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 AND AS 1554 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- UNLESS NOTED OTHERWISE ALL MATERIAL SHALL BE: GRADE 250 HOT-ROLLED PLATES COMPLYING WITH AS 3678;
   GRADE 250 HOT-ROLLED FLATS,.
- GRADE 300PLUS UB, UC, PFC, ANGLES, AND TFB.

- GRADE 300 WB, WC COMPLYING WITH AS 3679.2; GRADE C350 RHS, CHS COMPLYING WITH AS 1163;
- S03. THREE(3) COPIES OF WORKSHOP FABRICATION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AT LEAST 7 DAYS PRIOR TO COMMENCEMENT OF FABRICATION AND PERMISSION TO USE OBTAINED PRIOR TO FABRICATION PERMISSION TO USE DOES NOT RELIEVE THE BUILDER OF THE FULL RESPONSIBILITY FOR DIMENSIONS, FIT AND COMPLIANCE WITH ARCHITECTURAL AND ENGINEERING
- 4.6/S COMMERCIAL BOLTS OF GRADE 4.6 TO AS 1111, SNUG TIGHTENED.
- \*8.8/S HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252, SNUG TIGHTENED.
   \*8.8/TB HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8
- TO AS 1252 FULLY TENSIONED TO AS 4100 AS BEARING
- 8.8/TF HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 FULLY TENSIONED TO AS 4100 AS A FRICTION JOINT WITH FACING SURFACES LEFT UNCOATED.
- ALL BOLTS SHALL BE M20 GRADE 8.8/S LINLESS NOTED, NO. CONNECTION SHALL HAVE LESS THAN 2 BOLTS, ALL BOLTS, NUTS & WASHERS TO BE GALVANISED. TB AND TF BOLTS TO BE INSTALLED USING APPROVED LOAD INDICATING WASHERS, OR BY TURN OF NUT CONTROL OF TENSIONING.
- S05. WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1554.1. WELDING S5 CONSUMABLES SHALL BE E48XX OR W50X U.N.O. ALL WELD SHALL BE 6 MM CFW SP CATEGORY LUNIO CPBW SHALL BE SPICATEGORY UNIO INSPECTION SHALL BE CARRIED OUT TO AS 1554.1. ALL GP/SP WELDS SHALL BE 100% VISUALLY SCANNED. BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS TO
- S06 ALL DETAILS GALIGE LINES ETC. WHERE NOT SPECIFICALLY SHOWN ARE TO BE IN ACCORDANCE WITH AISC DESIGN CAPACITY TABLES FOR STRUCTURAL STEEL AND AISC STANDARDIZED STRUCTURAL CONNECTIONS. PLATES TO BE
- S07. STEELWORK TO BE CONCRETE ENCASED SHALL BE WRAPPED WITH F41 STEELWIRE FABRIC AND SHALL HAVE 50mm MINIMUM CONCRETE COVER TO THE STRUCTURAL
- S08. PROVIDE SEAL PLATES TO ALL HOLLOW SECTIONS. PROVIDE VENT HOLES TO HOLLOW MEMBERS & DRAIN HOLES TO ALL
- S09 IT IS THE BUILDER'S RESPONSIBILITY TO ENSURE THAT STEELWORK IS SECURELY TEMPORARILY BRACED AS NECESSARY TO STABILISE THE STRUCTURE DURING **ERECTION**
- S10. STRUCTURAL STEELWORK SHALL HAVE THE FOLLOWING SURFACE TREATMENT IN ACCORDANCE WITH THE

ELEMENT	SURFACE CLEANING	PROTECTIVE COATING		
EXTERNAL	MECHANICAL	HOT DIPPED GALV.		

- S11. THE BUILDER SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND TIMBER TO STEEL WHETHER OR NOT DETAILED ON THE
- S12. THE FABRICATION AND ERECTION OF THE STRUCTURAL STEELWORK SHALL BE UNDERTAKEN BY A QUALIFIED PERSON EXPERIENCED IN SUCH SUPERVISION. IN ORDER TO ENSURE THAT ALL REQUIREMENTS OF THE DESIGN ARE MET. ALL BEAMS AND RAFTERS SHALL BE FABRICATED AND ERECTED WITH NATURAL CAMBER UP
- S13. REFERENCE SHOULD BE MADE TO AS 2312 FOR APPROPRIATE COATING SYSTEMS FOR ALL EXTERNAL APPLICATIONS. COATING OF EXTERNAL LINTELS SHALL BE IN ACCORDANCE WITH B.C.A AND AS 3700.

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON SITE

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CONSULTING GROUP

Central Coast Office: Unit 1,3 Teamster Close Tuggerah NSW 2259 Ph 02 4351 9022 Fax 02 4340 1544. Newcastle Office: Shop 113, The Junction Village Centre, Kenrick Street, The Junction NSW 2291 Ph 02 4962 4414

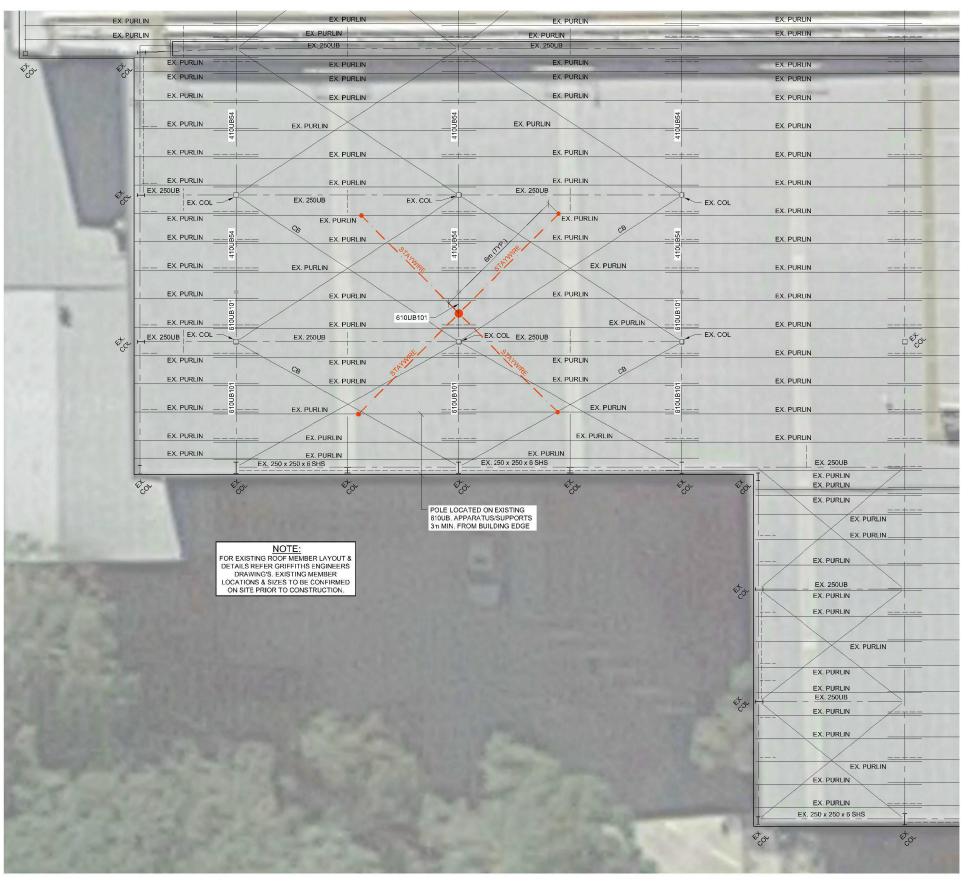
CIRRUS COMMUNICATIONS PTY LTD

A3/23 - 107 ERSKINE PARK ROAD ERSKINE PARK, NSW, 2759

CIRRUS COMMUNICATION POLE 12m TELESCOPIC MAST

COVER SHEET & NOTES			SCALE	N/A	INIT.	SHEET	
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#### NOTES:

DETAILS TO BE READ IN CONJUNCTION WITH GRIFFITHS ENGINEERS STRUCTURAL PLAN SERIES 0754 STEELWORK ROOF PLANS.

2. CONDUIT LOCATION TO COMMUNICATION PROVIDER

CONDUIT LOCATION TO COMMUNICAT SPECIFICATION.

EX. PURLIN - 223024 PURLINS

EX. COLLUMN - 200 x 200 x 6 S HS (INT.)

- 610UB101 (EXT.)

CB - 75 x 75 x 6 EA BRACING

4. DENOTES PROPOSED MAST/ANTENNA LOCATION.
REFER TELOMAST SPECIFICATION FOR MAST DETAIL.

### **GENERAL NOTES:**

NO1. EXPOSURE CLASSIFICATION FOR NEAR COASTAL REGION >1 km FROM THE COASTLINE. REFER TO DESIGN ENGINEER FOR CONFIRMATION OF STABILITY OF STEEL COMPONENTS FOR INSTALLATION WITHIN 1km FROM COAST OR SALTWATER BODY.

NO2. DESIGN BASED ON WIND CLASSIFICATION - FROM AS 1170.2. WHERE INSTALLATION VARYING FROM DESIGN REGION REFER TO ENGINEER.

DE	SIGN LOAD	S		
1. WIND CLASSIFICATION		2.	LIVE LOAD:	
REGION:	A		INSTALLER:	1.0KN
TERRAIN CATEGORY:	TC1			
V <sub>25</sub> =	37m/s	3.	POLE S.W:	0.7kN

N03. INSTALLATIONS TO COMPLY WITHWORK COVER (NSW) LEGISLATION OR EQUIVALENT REGULATORY AUTHORITIES REQUIREMENTS FOR HEIGHT

ANCHOR POINTS AND HARNESS STIRRUPS TO BE INSTALLED AND CERTIFIED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS. ANCHOR POINT INSTALLATION TO BE CERTIFIED BY OTHERS.

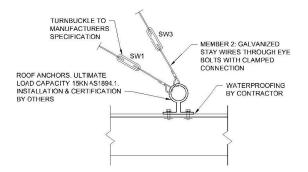
N05. POLE STOPS, PERMANENT ATTACHMENTS AND PREVENTION OF UNAUTHORISED ACCESS TO COMPLY WITH RELEVANT COMMUNICATIONS GUIDELINES AND POLICIES.

STRUCTURAL ADEQUACY OF EXISTING BUILDINGS TO SUPPORT COMMUNICATION POLES TO BE CERTIFIED BY OTHERS WHERE APPLICABLE.

ALL STEEL COMPONENTS TO BE HOT DIPPED GALVANISED AFTER FABRICATION.

N08. COMMUNICATION POLE 'EARTH' TO COMPLY WITH RELEVANT COMMUNICATIONS GUIDELINES AND POLICIES AND AS/NZS 1768 'LIGHTNING PROTECTION'

N09. COMMUNICATION ANTENNA MOUNTING DESIGN SAIL AREA: 0.28 m²



# STAY WIRE/ROOF CONNECTION DETAIL

BASE PLATE TO BE BOLTED TO BRIDGING PURLINS, PROVIDE PACKER AS REQUIRED. ALL BOLT PENETRATIONS TO BE MADE WATERPROOF, TYP. GENERAL PURPOSE BRIDGING BRACKET TYP. C15024 BRIDGING PURLIN EXISTING ROOF BEAM EXISTING ROOF PURLIN TYP.

BASE PLATE CONNECTION DETAIL
SCALE 1:10

# COMMUNICATION POLE LOCATION PLAN

SCALE 1:100 (A1) ::200 (A3)

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS ON SITE

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CIRRUS COMMUNICATIONS PTY LTD

A3/23 - 107 ERSKINE PARK ROAD ERSKINE PARK, NSW, 2759

CIRRUS COMMUNICATION POLE 12m TELESCOPIC MAST

COMMUNICATION POLE LOCATION PLAN

C.FISHER MIE AUST CPENG 719120

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