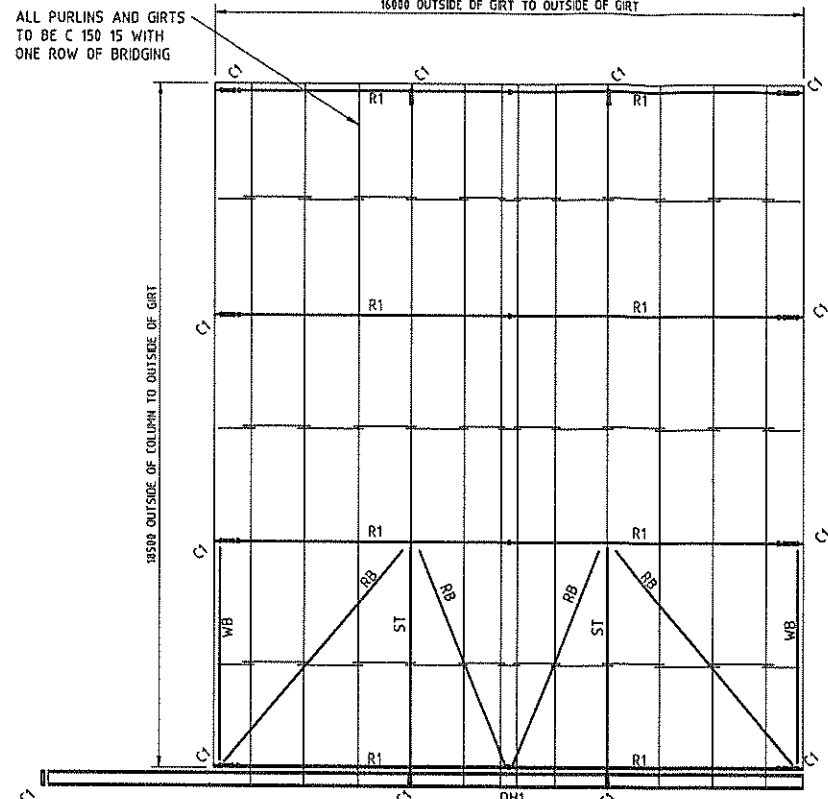


BORED PIER AND DOOR FOOTING LAYOUT
1:100 @ A1



ROOF STEELWORK MARING PLAN
1:100 @ A1

STEELWORK MEMBER SCHEDULE			
ITEM	MEMBER	MATERIAL	GRADE
COLUMN	C1	400 LB 18	450
RAFTER	R1	400 LB 18	450
DOOR COLUMN	DC1	300 LB 15	450
DOOR HEAD	DH1	400 LB 18	450
ROOF BRACING	RB	100 x 100 x 4.0 SHS	450
WALL BRACING	WB	100 x 100 x 4.0 SHS	450
STRUT	ST	100 x 100 x 4.0 SHS	450

STRUCTURAL STEEL

- S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS-4100 .
S2. ALL STEEL COMPONENTS SHALL CONFORM TO THE FOLLOWING :

COMPONENT	AUSTRALIAN STANDARD	GRADE
PLATE	AS 3678	300
HOT ROLLED SECTIONS	AS 3679	300
CHS > 80mm DIA	AS 1163	C350
CHS < 80mm DIA	AS 1163	C250
RHS & SHS	AS 1163	C350 LD / C450 LD DUAL GRADE
PURLINS & GIRTS	AS 1397	SEE NOTE S8 BELOW
WELDED BEAM, COLUMNS	AS 3679	300
FLAT BARS, RODS	AS 3679	250

- S3. ALL FILLET WELDS SHALL BE 6mm CONTINUOUS, CATEGORY S.P. USING E48 XX ELECTRODES UNLESS NOTED OTHERWISE
ALL BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS TO AS 1554.1 CATEGORY S.P.
S4. WELDING SHALL BE PERFORMED BY AN EXPERIENCED OPERATOR IN ACCORDANCE WITH AS 1554
S5. ALL BOLTS SHALL BE :
HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 TIGHTENED TO A SNUG TIGHT FIT, DESIGNATED 8.8/s IN ACCORDANCE WITH AS 1554 UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE M20, GRADE 8.8/s, DESIGNATED M20 8.8/s NO STEEL CONNECTION SHALL HAVE LESS THAN TWO BOLTS
S6. PROVIDE SEAL PLATES TO ALL HOLLOW SECTIONS WITH BREATHER HOLES IF MEMBERS ARE TO BE HOT DIPPED GALVANISED
S7. ALL STRUCTURAL STEEL SHALL BE POWER WIRE BRUSHED & PAINTED WITH ONE COAT OF GREY ZINC PHOSPHATE 75 MICRON D.F.T.
S8. THE PURLINS & GIRTS SHALL BE BLUESCOPE LYSAGHT OR STRAMIT SECTIONS OR AN APPROVED EQUIVALENT MANUFACTURED FROM GRADE 450 STEEL FOR SECTIONS 1.5 THICK OR GREATER & GRADE 500 FOR 1.2 THICK SECTIONS AND GALVANISED TO A MINIMUM AVERAGE THICKNESS OF 350 gm/m²
S9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY TEMPORARY BRACING NECESSARY TO MAINTAIN STABILITY OF THE STRUCTURES TO ENSURE THAT NO ELEMENT IS OVER STRESSED DURING ERECTION.

DESIGN LOADING

- L1. THE BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH AS / NZS 1170, PARTS 1 & 2. SPECIFICALLY, IN ACCORDANCE WITH PART 2, FOR WIND REGION A , TERRAIN CATEGORY 3
DEAD LOAD - AS PER 1170.1
LIVE LOAD - AS PER 1170.1
SERVICES 0.05kPa

CLADDING

- C1. ALL WALL AND ROOF CLADDING IS TO BE FIXED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. (FOR ABOVE DESIGN LOADINGS).

REINFORCED CONCRETE NOTES:

RC1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600-1994 WITH AMENDMENTS EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

RC2.

ELEMENT	SLUMP mm.	MAX. AGGREGATE SIZE (mm)	CEMENT TYPE.	28 DAYS MPa.	AD-MIXTURE
FOOTINGS	80±15	20	NORMAL PORTLAND CEMENT	20	NIL
FLOOR SLABS ON GROUND	80±15	20		25	NIL
FLOOR SLABS SUSPENDED	80±15	20		32	NIL
PIERS	80±15	20		20	NIL
TILT PANELS	80±15	20		32	NIL
EXTERNAL PAVEMENT	80±15	20		32	NIL

RC3. THE MINIMUM CLEAR CONCRETE COVER TO REINFORCEMENT INCLUDING TIES AND STIRRUPS SHALL BE AS SHOWN UNLESS NOTED OTHERWISE:-

ELEMENT	INTERIOR ENVIRONMENTS	EXTERIOR ENVIRONMENTS	CAST AGAINST GROUND.
GROUND FLOOR SLABS	30 UNO	30	50
SUSP. FLOOR SLABS & CONCRETE BEAMS	30	40	-
CONCRETE COLUMNS	30	40	-
FOOTINGS	-	-	65
TILT PANELS	-	40	-

RC4. COVER TO REINFORCEMENT SHALL BE OBTAINED BY THE USE OF APPROVED BAR CHAIRS. ALL CHAIRS TO BE SPACED AT 900 CENTRES MAXIMUM.

RC5. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. VIBRATORS SHALL NOT BE USED TO SPREAD CONCRETE.

RC6. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE TREATED AS SPECIFIED.

RC7. REPRESENTATION OF REINFORCEMENT IS DIAGRAMMATIC.

RC8. ALL REINFORCING SHALL COMPLY WITH AS 1304 AND AS 1303 AND SHALL BE SUPPLIED IN FLAT SHEETS.

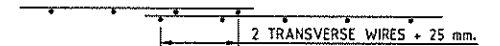
RC9. ALL FABRIC FOR SLABS POURED ON GROUND MUST BE IN PLACE BEFORE CONCRETING COMMENCES AND SHALL BE SUPPORTED ON BAR CHAIRS IN ACCORDANCE WITH NOTES RC4.

RC10. LAP LENGTHS FOR REINFORCING BARS SHALL BE AS FOLLOWS:-

BAR SIZE	VERT. LAP	HORIZ. LAP
N12	300	400
N16	400	500
N20	500	650
N24	650	850
N28	800	1100
N32	1000	1350
N36	1200	1650

UNLESS NOTED OTHERWISE ON DESIGN DRAWINGS.

NOTE: - WHERE BARS WITH DIFFERENT DIAMETERS LAP, THE LAP LENGTH SHALL APPLY FOR THE SMALLER BAR DIAMETER.
FABRIC LAP DETAILS:-



RC11. ALL CONCRETE SHALL BE SAMPLED AND TESTED BY AN INDEPENDENT "NATA" TESTING LABORATORY FOR COMPRESSIVE STRENGTH IN ACCORDANCE WITH AS 3600. ALL CONCRETE TRUCKS SHALL BE SLUMP TESTED BY INDEPENDENT "NATA" PERSONNEL. REJECTION FOR SLUMP SHALL BE ±15mm, ALL AT THE DISCRETION OF THE ENGINEER.

RC12. SLAB PANELS (BETWEEN CONTROL JOINTS) SHALL NOT EXCEED THE FOLLOWING RATIO LENGTH TO BREADTH RATIO OF 2:1



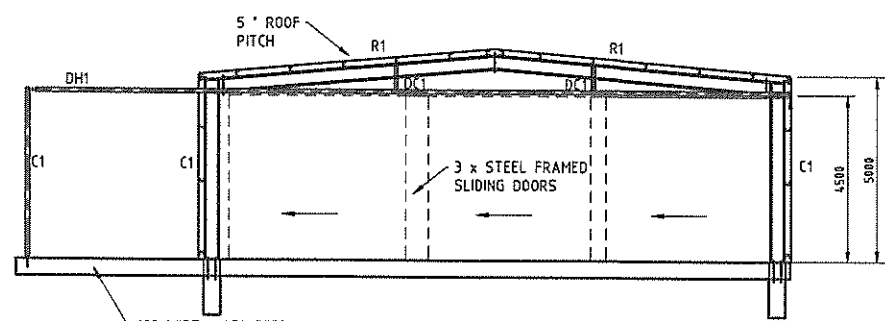
RC13. IMMEDIATELY AFTER FINAL TROWELLING, SLAB IS TO BE SPRAYED WITH AN APPROVED CURING COMPOUND OR OTHERWISE CURED TO THE SATISFACTION OF THE ENGINEER.

EARTHWORKS NOTES:

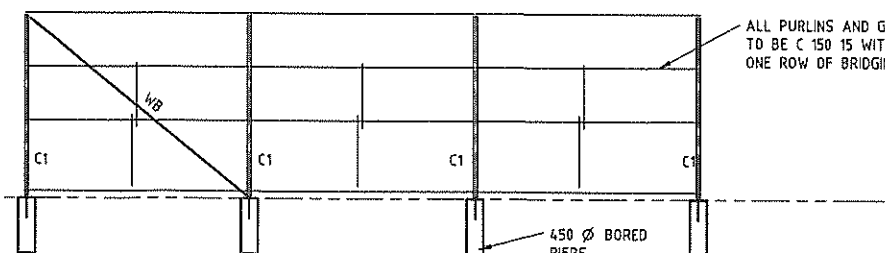
EW1. THE AREA UNDER THE SLAB SHALL BE STRIPPED OF ALL VEGETATION AND TOPSOIL AND SHALL BE FILLED AS REQUIRED WITH AN APPROVED MATERIAL IN LAYERS NO THICKER THAN 200mm (LOOSE) AND COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY ATTAINED IN TEST E.2.1 OF AS1287 OR AS APPROVED BY THE ENGINEER. THE ENTIRE AREA SHALL BE PROOF ROLLED WITH THE ENGINEER PRESENT & ANY SOFT SPOTS REMOVED & REPLACED WITH SUITABLY COMPACTED MATERIAL.

FOOTING DESIGN PARAMETER NOTES:

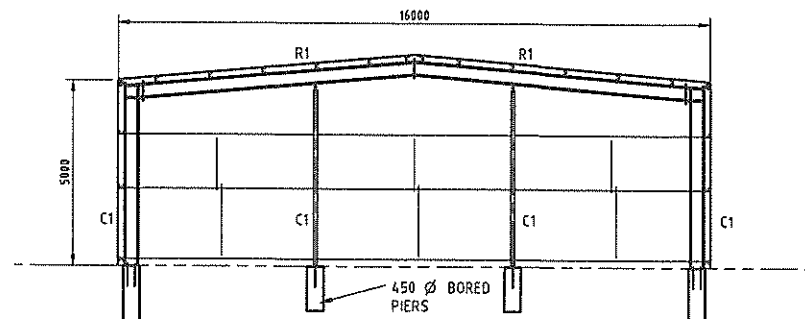
- F1. ASSUMED BEARING IN STIFF CLAY.
F2. ALLOWABLE BEARING PRESSURE 200kPa.
F3. SHAFT ADHESION 30kPa (UPPER MOST 1m NEGLECTED)
F4. ENGINEER TO VERIFY SATISFACTORY BEARING/FOUNDING CONDITIONS IN ACCORDANCE WITH DESIGN INTENT ON SITE AT TIME OF DRILLING.



FRONT ELEVATION
1:100 @ A1



TYPICAL SIDE ELEVATION
1:100 @ A1



REAR ELEVATION
1:100 @ A1

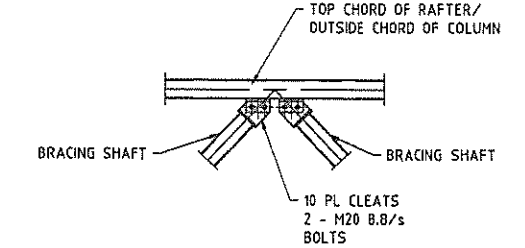
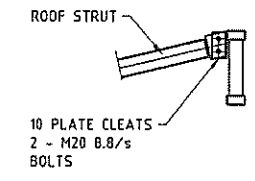
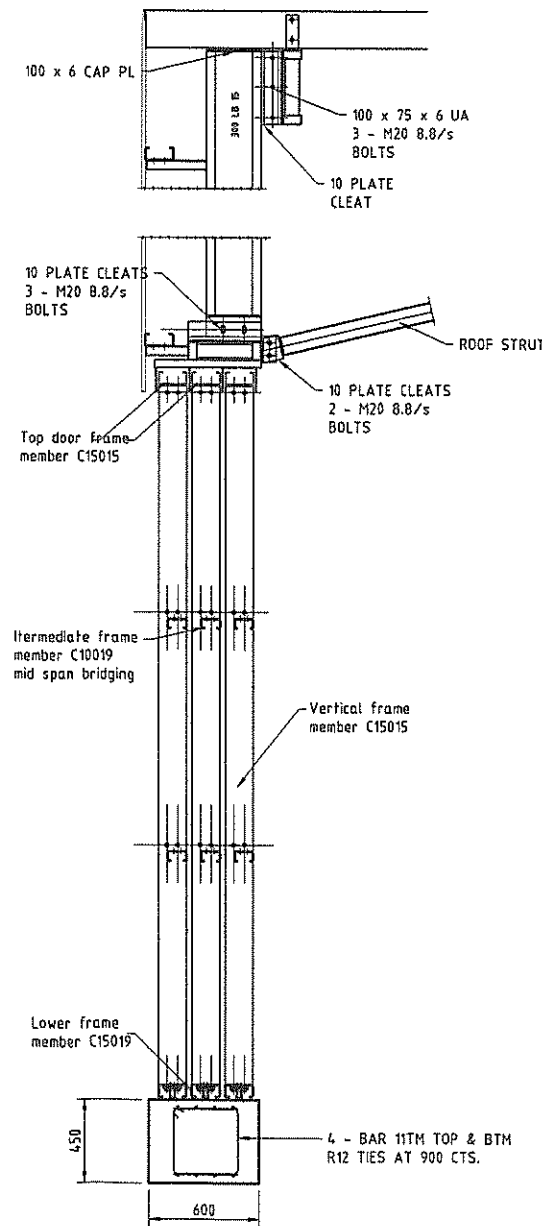
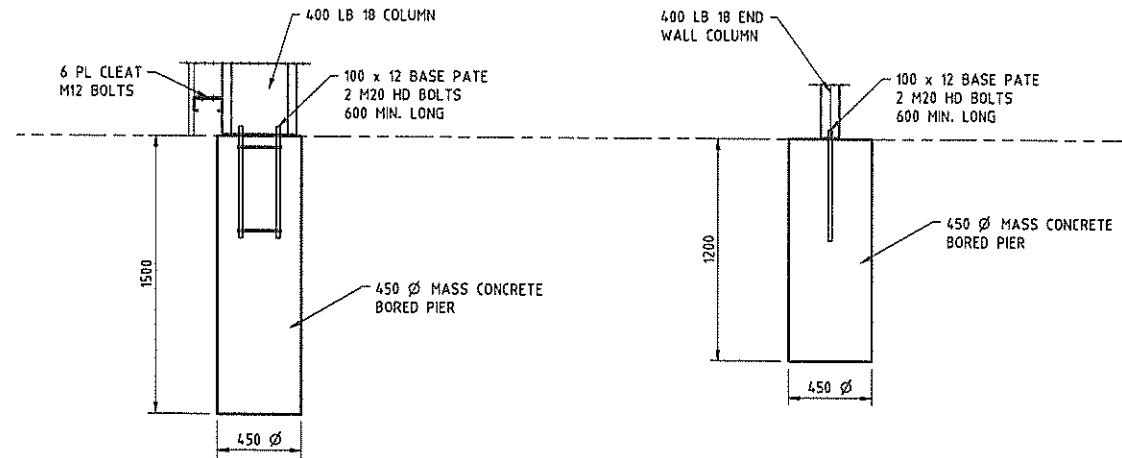
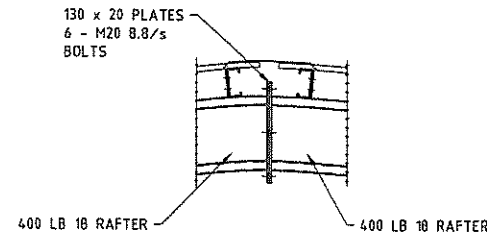
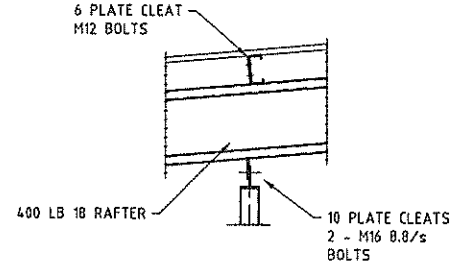
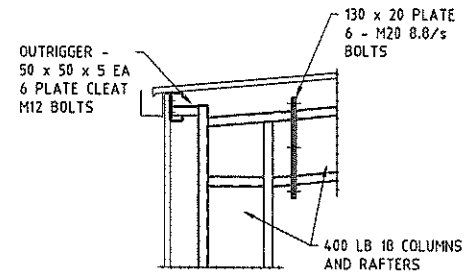


SCALE 1:100 @ A1
SCALE 1:200 @ A3

REV.	DATE	DESCRIPTION	DRN.
0	24.01.22	ISSUED FOR CONSTRUCTION	WM

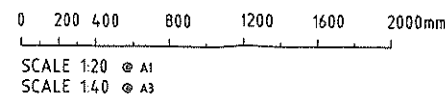
GREG DALLAS
CONSULTING ENGINEER
18 GIDLEY STREET
MOLONG NSW 2866
MOB: 0408 644 536
24.01.22 DIP TECH (NSW IT)

CLIENT: MR R PRIDDLE
PROJECT TITLE: PROPOSED HANGAR GULGONG AIRPORT GULGONG
DRAWING TITLE: BORED PIER LAYOUT AND STEELWORK MARKING PLAN
DRAWN: WM DATE: 09.01.22 SCALE: AS SHOWN DWG: 22.101.01 REV: D



FRAME FIXING DETAIL
1:20 @ A1

DOOR HEAD AND STRUT FIXING DETAIL
1:20 @ A1



REV.	DATE	DESCRIPTION	DRN.	GREG DALLAS CONSULTING ENGINEER		CLIENT
1	24.01.22	ISSUED FOR CONSTRUCTION	WH	18 GIDLEY STREET MOLONG NSW 2866 MOB: 0408 644 536		MR R PRIDDLE
				PROJECT TITLE		PROPOSED HANGAR
				DRAWING TITLE		GULGONG AIRPORT GULGONG
				SCALE		AS SHOWN
				DATE		22.10.02
				DRAWN		WM
				REV.		0