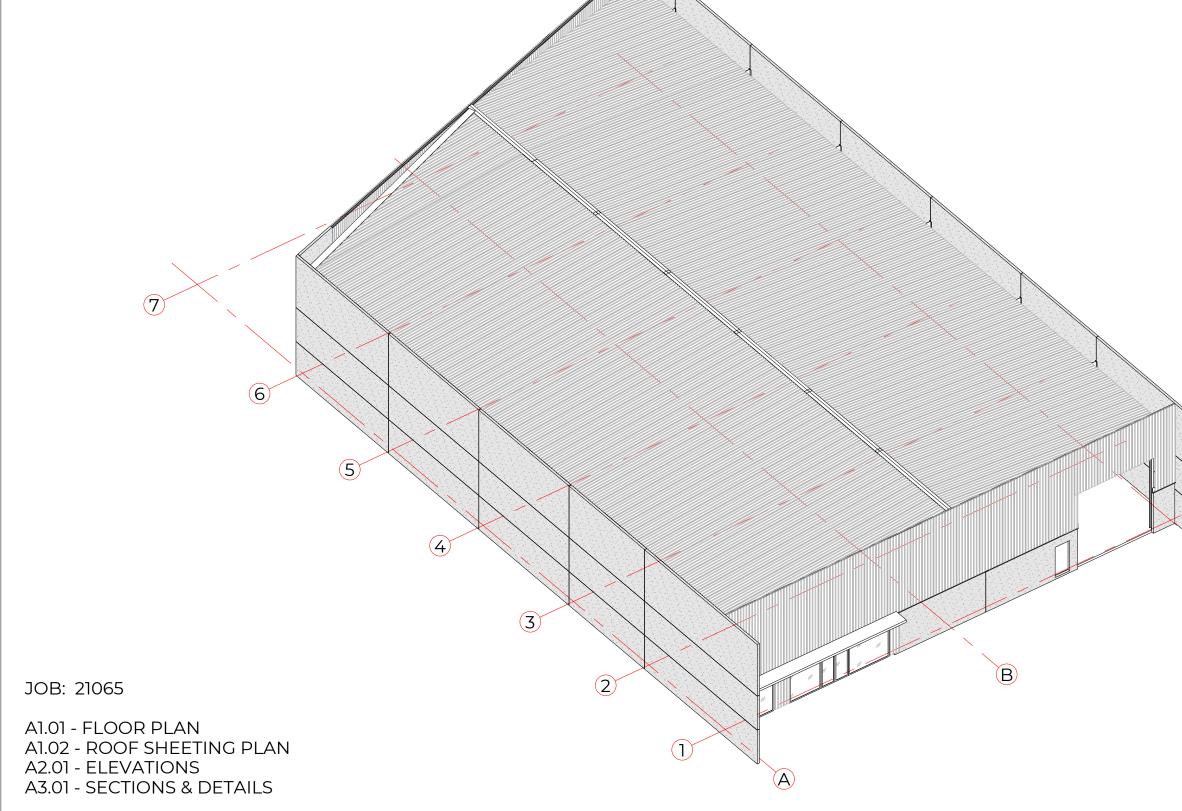
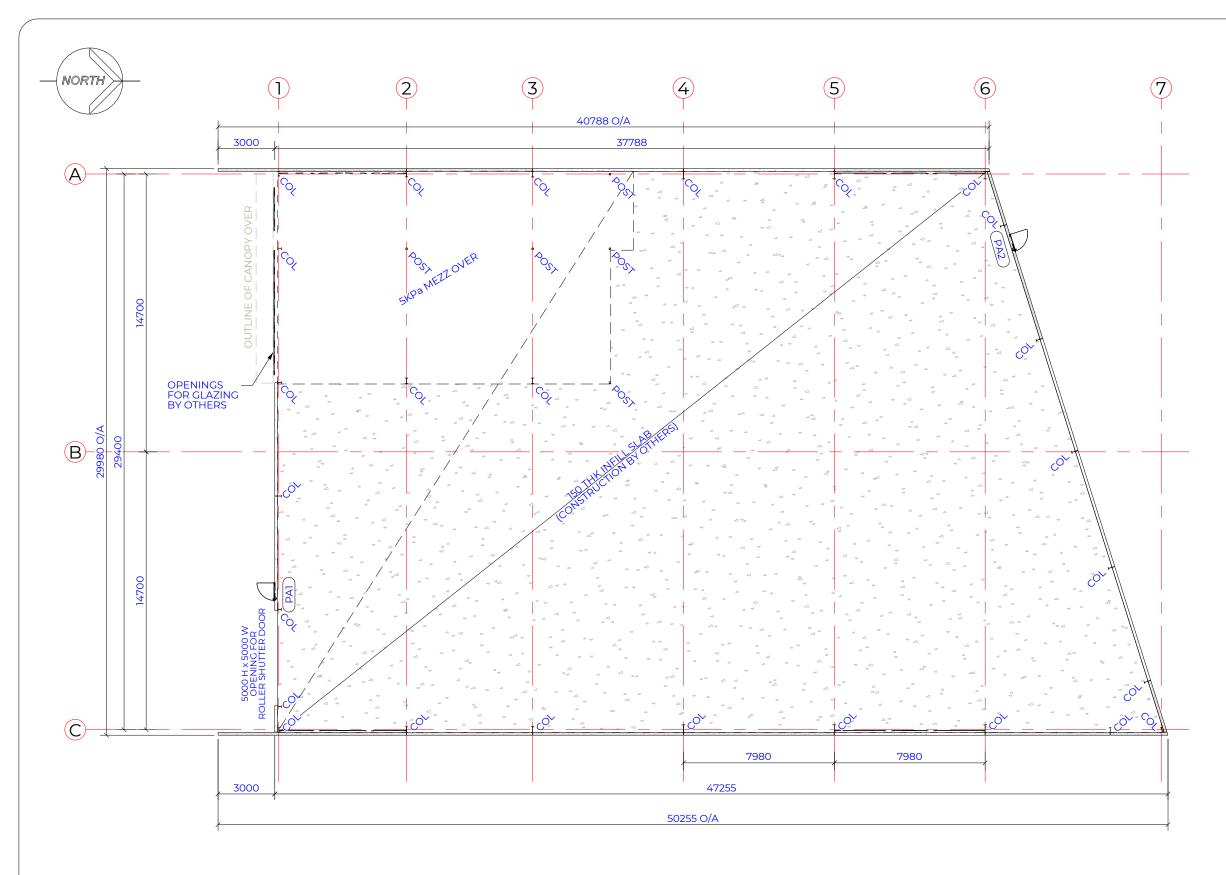
# PROPOSED WAREHOUSE 12 FOR GLENN BRAGANZA 28 PLATINUM COURT THURGOONA, NSW 2640







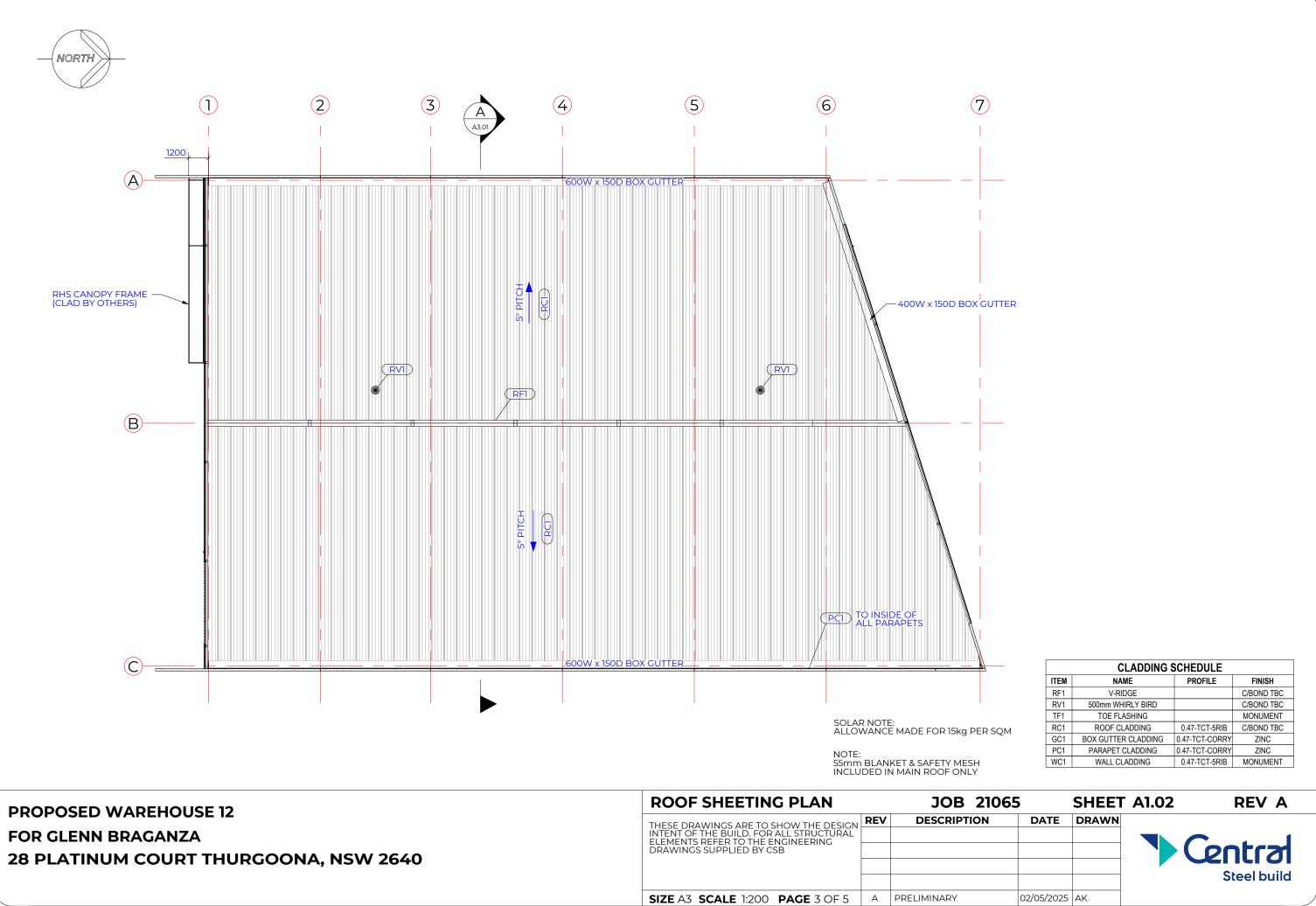


NOTE: MEZZANINE FLOOR RATED AT 5kpa SWL (SIGNAGE BY OTHERS) HANDRAIL AND STAIRWAY (BY OTHERS) TO MEET BCA PART D & AS 1428.1-2009

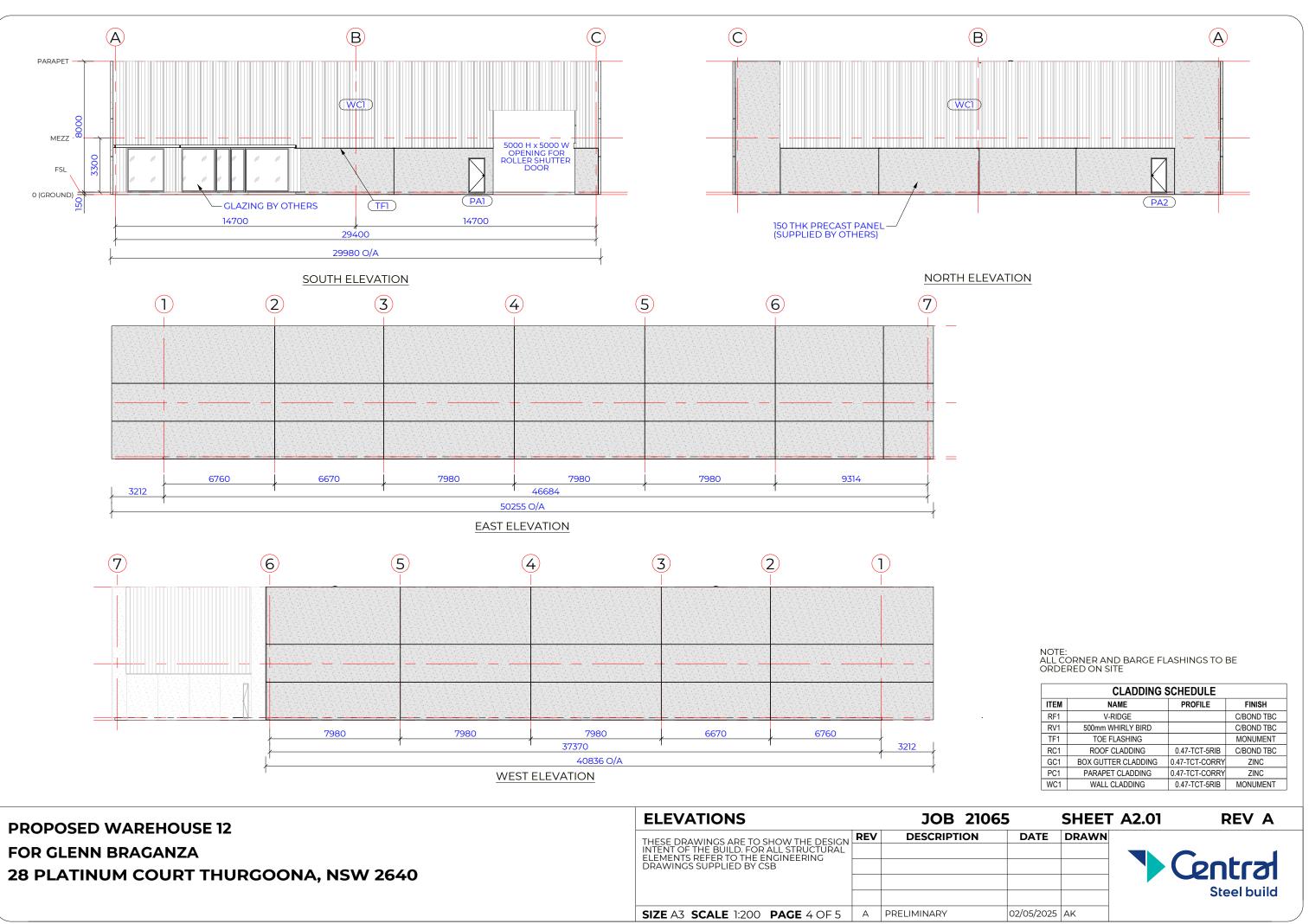
PROPOSED WAREHOUSE 12	FLOOR PLAN		JOB 2106	JOB 21065	
	THESE DRAWINGS ARE TO SHOW THE DESIGN INTENT OF THE BUILD. FOR ALL STRUCTURAL ELEMENTS REFER TO THE ENGINEERING DRAWINGS SUPPLIED BY CSB	REV	DESCRIPTION	_	
	<b>SIZE</b> A3 <b>SCALE</b> 1:200 <b>PAGE</b> 2 OF 5	A	PRELIMINARY	С	

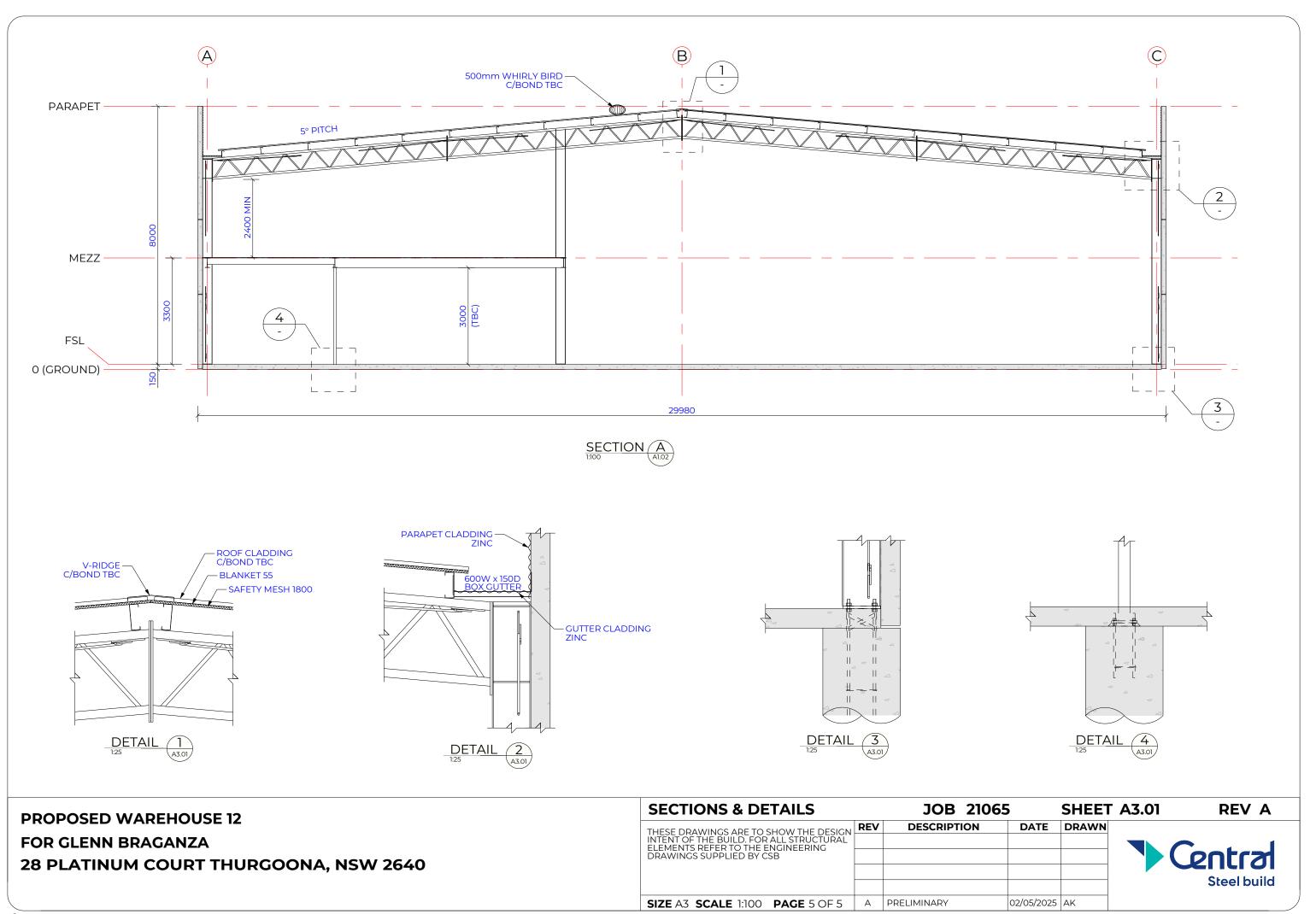
DOOR SCHEDULE						
ITEM	SIZE	QTY	COMMENTS			
PA1	920 w x 2040 h	1	920x2040 HD PA DOOR CBOND (TBC) DUTY: HEAVY DUTY			
PA2	920 w x 2040 h	1	920x2040 HD PA DOOR CBOND (TBC) DUTY: HEAVY DUTY			



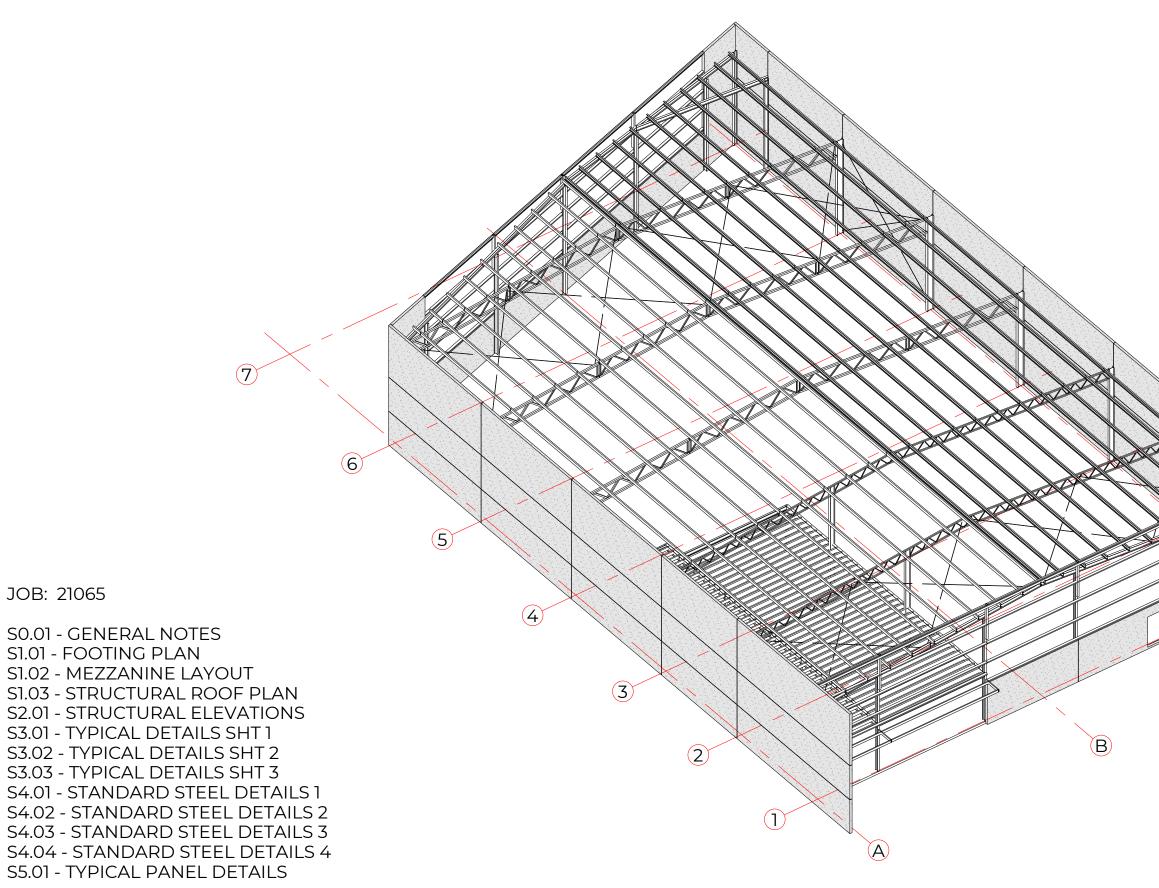


CLADDING SCHEDULE								
ITEM	NAME	PROFILE	FINISH					
RF1	V-RIDGE		C/BOND TBC					
RV1	500mm WHIRLY BIRD		C/BOND TBC					
TF1	TOE FLASHING		MONUMENT					
RC1	ROOF CLADDING	0.47-TCT-5RIB	C/BOND TBC					
GC1	BOX GUTTER CLADDING	0.47-TCT-CORRY	ZINC					
PC1	PARAPET CLADDING	0.47-TCT-CORRY	ZINC					
WC1	WALL CLADDING	0.47-TCT-5RIB	MONUMENT					

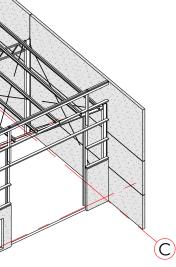




# PROPOSED WAREHOUSE 12 FOR GLENN BRAGANZA 28 PLATINUM COURT THURGOONA, NSW 2640







#### GENERAL

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS WITH SUCH OTHER WRITTEN INSTRUCTIONS OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE G1. CONTRACT, ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH WORK.
- DIMENSIONS AND LEVELS ARE TO BE OBTAINED FROM THE ARCHITECTURAL DRAVINGS AND ARE TO BE VERIFIED ON-SITE PRIOR TO COMMENCEMENT OF WORKS OR FABRICATION. G2.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT AUSTRALIAN STANDARDS INCLUDING ALL AMENDMENTS CURRENT AT THE TIME OF CONTRACT AWARD, BUILDING REGULATIONS, THE NATIONAL CONSTRUCTION CODE AND ANY OTHER RELEVANT STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS. G3.
- G4. THESE DRAWINGS MUST NOT BE SCALED.
- G5. 3D AND ISOMETRIC VIEWS IN THESE DOCUMENTS ARE INDICATIVE ONLY AND SHOULD ONLY BE USED AS A VISUAL AID TO ASSIST IN THE INTERPRETATION OF THE ORTHOGRAPHIC DRAWINGS.
- G6. DO NOT COMMENCE CONSTRUCTION USING THESE DRAWINGS UNTIL IT'S "ISSUED FOR CONSTRUCTION".
- G7. THE FOUNDATION MATERIAL MUST HAVE A SAFE BEARING PRESSURE OF NOT LESS THAN 150KPA, FOUNDED ON NATURAL GROUND (UNO.). ALL FOOTINGS MUST BE FOUNDED AT SPECIFIED DEPTH AND MIN. 100mm INTO NATURAL COLUND (UNO.) 100mm INTO NATURAL GROUND (UNO.)
- G8. UNLESS NOTED OTHERWISE, ALL LEVELS ARE IN METERS AND ALL DIMENSIONS ARE IN MILLIMETERS.
- G9. THE METHOD OF CONSTRUCTION AND THE MAINTENANCE OF SAFETY DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR. IF ANY STRUCTURAL LELEMENT PRESENTS DIFFICULTY IN RESPECT OF CONSTRUCTABILITY OR SAFETY, THE MATTER SHALL BE REFERRED TO THE STRUCTURAL ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- G10. DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERLOADED. THE BUILDER SHALL PROVIDE TEMPORY BRACING, SHORING AND PROPPING IN ORDER TO KEEP THE BUILDING WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- AT ALL TIMES.
   GII. CENTRAL STEEL BUILD'S ENGAGEMENT IS TO PROVIDE DOCUMENTED DESIGN FOR THE PERMANENT CONDITION SUITABLE FOR THE DOCUMENTED INTENDED OCCUPANCY USE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE AND ANY ADJACENT STRUCTURES IN A SAFE AND STABLE CONDITION AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS TO DEVELOP A DETAILED SAFE WORK METHOD STATEMENT OUTLINING THE CONSTRUCTION SEQUENCE AND METHODOLOGY. THE CONTRACTOR IS TO ENGAGE A QUALIFIED AND SUITABLY EXPERIENCED ERECTION ENGINEER TO REVIEW THE CONSTRUCTION METHODOLOGY AND PROVIDE DESIGN OF TEMPORARY WORKS (SUCH AS PROPPING AND TEMPORARY BRACING) TO SUIT THE CONTRACTOR.
- GILCONTRAL STEEL BUILD HAS NOT BEEN ENGAGED TO UNDERTAKE DESIGN OF LATERAL STABILITY RESTRAINTS FOR NON-STRUCTURAL PARTS AND COMPONENTS IN ACCORDANCE WITH ASIITO.4 SECTION 8 (E.G. SERVICES, PLANT & EQUIPMENT, CEILINGS, FIXED AND AND NON-FIXED NON-STRUCTURAL ELEMENTS). SUCH DESIGN SHALL BE COMPLETED BY THE INSTALLATION CONTRACTORS, WHO MUST ENGAGE A SUITABLY QUALIFIED STRUCTURAL ENGINEER TO PROVIDE ALL RELEVANT CALCULATIONS, CERTIFICATION DOCUMENTATION AND AS-CONSTRUCTED DRAWINGS DEMONSTRATING COMPLIANCE TO ASIITO.4 SECTION 8 TO THE SATISFACTION OF THE BUILDING CERTIFIER
- G13. IMPORTED/LOCAL FILL SHOULD BE PLACED ONTO A COMPETENT BASE IN MAXIMUM 200mm LIFTS WITH EACH LIFT BEING COMPACTED TO 98% STANDARD COMPACTION DENSITY.
- G14. CLADDING WEIGHT AND PROFILE AS SPECIFIED ON ARCHITECTURAL DRAWINGS. CLADDING IS TO BE INSTALLED TO AS1562(2018).
- G15. PLASTERBOARD LINING ARTICULATION JOINTS ARE TO BE PLACED IN PLASTERBOARD AT ROOF BEAM LOCATIONS FOR CEILINGS AND AT MAIN COLUMN LOCATIONS FOR WALLS, AT MAX 3000mm CENTRES. ADEQUATE APPROVED INSULATION PRODUCT AND EXPANSION/CONTRACTION ROOF/WALL SHEETING SCREWS TO BE ADOPTED BETWEEN ANY METAL ROOF/WALL SHEETING AND SUPPORTING PURLINS/GIRTS.
- G16. WIRE ROPE BRACING TO BE IN ACCORDANCE WITH AS2759(2004). 3 GRIPS PER END. WIRE ROPE TO BE RE-TENSIONED AT COMPLETION OF CONSTRUCTION.
- OF CONSTRUCTION.
  G17. ROOF PLUMBER TO ENSURE BOX GUTTERS ARE IN COMPLIANCE WITH ASS500.3(2021) AND TO DESIGN TO SUIT ON SITE DETERMINED DRAINAGE LOCATIONS.
  THE FOLLOWING DESIGN AND INSTALLATION PARAMETERS MUST BE ACHIEVED TO SATISFY THE REQUIREMENTS OF AS3500.3(2021).
  A BOX CUTTER MUST HAVE:

  A MINIMUM SOLE WIDTH OF 200mm FOR DOMESTIC CLASS 1 BUILDINGS AND 300mm FOR OTHER BUILDING CLASSES.
  A MINIMUM DEPTH OF 75mm AT THE HIGH END.
  THE GOLE MUST BE SMOOTH TO PREVENT PERMANENT PONDING WITH THE GRADIENT BETWEEN THE RANGE OF 1:40 TO 12:00.

  DISCHARGE AT THE DOWNSTREAM END WITHOUT CHANGE IN DIRECTION (IE. NOT TO THE SIDE).
  BE STRAIGHT (WITHOUT CHANGE OF DIRECTION).
  THE BOX GUTTER. MUST BE SALED TO THE RAINHEAD OR SUMP.
  THE SOLE WIDTH MUST BASEALED TO THE RAINHEAD OR SUMP.
  THE SOLE WIDTH MUST BASEALED TO THE RAINHEAD OR SUMP.
  THE BOX GUTTER.
  WHERE SARKING IS INSTALLED, IT MUST BE A MIN. 25mm INTO THE BOY GUTTER LATER.
  NO PART OF THE OUTLET IS ABOVE THE SOLE OF THE SUMP OR RAINHEAD
  AND PART OF THE OUTLET IS ABOVE THE SOLE OF THE SUMP OR RAINHEAD
  LAP JOINTS TO HAVE 25mm LAPS, SEALED AND FASTENED IN THE DIRECTION OF FALL.

#### CONCRETE

- C1. CONCRETE SIZES DO NOT INCLUDE FINISHES.
- C2. NO HOLES, CHASES OR EMBEDMENTS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE MADE IN CONCRETE ELEMENTS WITHOUT ENGINEER'S APPROVAL

- C3. DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS, SLAB AND C3 BEAMS SHALL BE CAST TOGETHER UNLESS OTHERWISE NOTED.
- C4. CONCRETE SHALL BE KEPTS FREE OF SUPPORTING MASONRY WITH TWO LAYERS OF SUITABLE MEMBRANE (MALTHOID OR EQUIV). VERTICAL FACES SHALL BE SEPARATED BY IZMM BITUMINOUS CANITE.
- C5. CONSTRUCTION JOINTS SHALL BE LOCATED TO THE SATISFACTION OF THE ENGINEER. BUILDER SHALL ALLOW FOR ALL NECESSARY CONSTRUCTION JOINTS.
- C6. CAMBER TO SUSPENDED SLAB AND BEAMS SHALL BE 5 FOR EVERY 2500 OF SPAN UNLESS OTHERWISE NOTED.
- C7. REINFORCEMENT IS SHOWN DIAGRAMMATICALLY AND IS NOT NECESSARILY IN TRUE PROJECTION. SPLICES TO REINFORCEMENT SHALL BE MADE ONLY AT THE LOCATION SHOWN OR AS OTHERWISE APPROVED BY THE ENGINEER.
- C8. THIS TABLE IS TO ONLY BE USED WHERE CONCRETE STRENGTHS AND COVERS ARE NOT NOTED ON STRUCTURAL DRAWINGS.

ELEMENT		R mm CES CAST ST GROUND	FORMED or FINISHED	MINIMUM GRADE U.N.O.	EXPOSURE CLASSIFICATION U.N.O.
FOOTINGS		75	50	N32	A2
BLINDING		-	-	N15	A2
COLUMNS	INTERNAL EXTERNAL	50 50	40 40	N32 S32	A1 A2
WALLS	INTERNAL EXTERNAL	50 50	30 40	N32 S32	A1 A2
BEAMS	INTERNAL EXTERNAL	50 50	30 40	N32 S32	A1 A1
SLAB/BAND BEAMS	INTERNAL EXTERNAL	50 50	20 40	N32 S32	A1 A1

NOTES

- i. COVER IS THE CLEAR DISTANCE BETWEEN ANY REINFORCING (INCLUDING FITMENTS) AND THE FACE OF THE STUCTURAL

- COVERS THE CELEMENTS) AND THE FACE OF THE STUCTURAL ELEMENT.
   FOR ALL EXTERNAL SURFACES, PROVIDE FULLY PLASTIC BAR CHAIRS. THE WIRE SHALL NOT BE NAILED TO THE FORMS, REINFORCING BARS SHALL NOT BE USED TO KEEP FORMS APART AND A THROUGH THE SYSTEM SHALL BE USED TO THE FORMS.
   REVIDE AN APPROVED VAPOUR BARRIER FOR SLABS, BEAMS AND THICKENING CAST AGAINST THE GROUND.
   THE COVERS SHALL BE MAINTAINED USING APPROVED BAR CHAIRS. IN SLABS THE BAR CHAIRS SHALL BE PROVIED ALONG THE EDGES OF ALL CONSTRUCTION JOINTS. STOP ENDS SHALL NOT BE USED TO MAINTAIN THE COVERS.
   EXTERNAL ELEMENTS ARE THOSE EXPOSED TO WEATHER, RAIN AND WATER PENETRATION AND ARE CLASSIFIED BI UNLESS NOTED OTHERWISE.
- C9. CONCRETE SHALL BE HANDLED AND PLACED IN ACCORDANCE WITH SECTION 19 OF AS3600. CONCRETE SLUMP SHALL BE BETWEEN 60mm AND 80mm. PUMPED CONCRETE SLUMP MAY INCREASE TO 100mm. AGGREGATE SHALL BE DENSE ACGREGATE TO AS2758 (IVLIESS OTHERWISE INDICATED) FROM AN APPROVED SOURCE. THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 20mm.
- CI0. EXTERNAL/EXPOSED CONCRETE ELEMENTS, GRADE S32 MINIMUM, SHALL MEET THE FOLLOWING REQUIREMENTS: MINIMUM PORTLAND CEMENT CONTENT 330 Kg/m<sup>3</sup> MAXIMUM WATER/CEMENT RATIO 0.5, SHRINKAGE LIMIT 700 MICRO-STRAIN AFTER 56 DAYS, AND CHLORIDE CONTENT RESTRICTED AS PER CLAUSE 4.9 OF AS3600. NO OTHER SALT SHALL BE ADDED.
- C11. CONDUITS AND PIPES WHEN CAST IN SLABS OR WALLS ARE TO BE PLACED BETWEEN THE TWO REINFORCEMENT LAYERS. WHERE THERE IS ONLY ONE LAYER OF REINFORCEMENT, PROVIDE 50mm COVER TO CONDUIT. PROVIDE MINIMUM 3 x DIAMETER CLEARANCE BETWEEN CONDUITS.
- C12. WHERE DISTRIBUTION BARS TO MAIN REINFORCEMENT ARE NOT SHOWN ON DRAWINGS PROVIDE MINIMUM NI6 AT 400 CENTERS, LAPPED 500mm AT SPLICES.
- CI3. STRIPPING AND BACKPROPPING OF SOFFITS SHALL NOT OCCUR UNTIL CONCRETE HAS REACHED 75% OF SPECIFIED STRENGTH. NO MASONRY WALLS SHALL BE BUILT ON SUSPENDED ELEMENTS UNTIL REMOVAL OF ALL FORMS AND PROPS.
- C14. ALL PULL-OUT BARS SHALL BE TEMPCORE OR QUENCHED AND TEMPERED PRODUCT. ALL BENDING AND REBENDING OF REINFORCEMENT SHALL BE IN STRICT ACCORDANCE WITH THE DESUMPTION OF A A 2000 REQUIREMENTS OF AS 3600.
- CI5. WHERE DRILL & EPOXY GROUT IS CALLED UP ON THE DRAWINGS USE RAMSET CHEMSET REO 502 INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS OR AN APPROVED EQUIVALENT UNLESS NOTED OTHERWISE.
- C16. REINFORCEMENT AND POST TENSIONING RATES NOTED IN THE HEINFORCEMENT AND POST TENSIONING RATES NOTED IN THE DOCUMENTATION ARE AN ESTIMATE OF THE QUANTITIES REQUIRED FOR STUCTURAL ELEMENTS IN THE FINAL CASE ONLY. THE CONTRACTOR SHOULD MAKE APPROPRIATE ALLOWANCES FOR NON-STRUCTURAL ELEMENTS [e.g. TRIMMING OF SERVICES PENETRATIONS, KERBS, PLINTHS, SCREEDS ETC.] ROLLING MARGINS, WASTE AND ADDITIONAL QUANTITIES REQUIRED FOR CONSTRUCTION ACTIVITIES.
- C17. REINFORCEMENT ALL REINFORCEMENT TO BE IN ACCORDANCE WITH AS4671. ALL REINFORCEMENT BARS AND MESH TO BE DEFORMED AND STRENGTH GRADE 500 (I.E. D500) UNLESS NOTED OTHERWISE.

- STRUCTURAL STEEL SHALL COMPLY TO AS4100 & AS1538
- THE FABRICATOR SHALL BE RESPONSIBLE FOR THE SHOP DRAWINGS WHICH SHALL COMPLY WITH THESE DRAWINGS, ANY VARIATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION. S1.
- WHERE CONNECTION FORCES (IN KILONEWTONS) ARE SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE PROVIDED TO TRANSMIT THESE FORCES. CONNECTIONS SHALL PROVIDE FOR A MINIMUM FORCE OF 40KN. S2.
- A MINIMUM FORCE OF JOIN. UNLESS OTHERWISE NOTED: WELDS TO BE 6mm CONTINUOUS FILLETS LAID DOWN WITH APPROVED WELDING CONSUMABLES. GUSSET PLATES TO BE 10mm THICK. BOLTS TO BE M20-8.8/S IN 22mm DIAMETER HOLES. PROVIDE A MINIMUM OF TWO BOLTS PER CONNECTION. S3.
- 54. FABRICATOR SHALL PROVIDE ALL FIXINGS FOR ARCHITECTURAL LEMENTS ETC. WITHOUT WEAKENING STRUCTURAL MEMBERS IN ANY WAY.
- UNLESS OTHERWISE NOTED CAMBER SHALL BE PROVDED TO ALL ROOF BEAMS, TRUSSES, PORTALS, ETC. AT 5 PER 2000 OF SPAN. NO MEMBER SHALL BE ERECTED WITH NEGATIVE CAMBER. S5.
- S6. ALL STEELWORK BELOW GROUND SHALL BE ENCASED BY 75mm OF CONCRETE.
- CONCRETE ENCASED STRUCTURAL STEEL TO BE WRAPPED WITH FGW41 PLACED 25mm CLEAR OF STEEL. PROVIDE 50mm MINIMUM S7. FNCASING.
- ALL STRUCTURAL STEELWORK (UB/UC/PFC/EA/UA/SHS/RHS/CHS/PLT) SHALL BE HOT DIP GALVANISED IN ACCORDANCE WITH AS4680, AS1214 & AS2312. MINIMUM COATING THICKNESS OF 85 MICRONS.
- S9. PURLINS TO BE GALVANISED HIGH STRENGTH STEEL STRIP COMPLYING WITH ASI397. MINIMUM STRESS YIELD OF 450MPa. ZINC COATING OF Z350 (350g/m<sup>2</sup> MINIMUM COATING MASS.) PURLINS TO COMPLY WITH AS4600(2005) AND MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
- S10. THE BOLTING PROCEDURE IS DESIGNATED AS FOLLOWS:
   -□4.6/S REFERS TO COMMERCIAL BOLTS OF STRENGTH GRADE 4.6 TO
   ASJ111 TIGHTENED USING A STANDARD WRENCH TO
   SNUG-TIGHT CONDITION.
   -□8.8/S REFERS TO HIGH STRENGTH BOLTS OF STRENGTH GRADE 8.8
   TO ASI252 TIGHTENED USING A STANDARD WRENCH TO A
   SNUG-TIGHT CONDITION.

  - SNUG-TIGHT CONDITION. -□8.8/TF REFERS TO HIGH STRENGTH BOLTS OF STRENGTH GRADE 8.8 TO ASI252 FULLY TENSIONED TO ASISII, DESIGNED AS A
  - FRICTION TYPE JOINT.
     BARDEN STRENGTH BOLTS OF STRENGTH GRADE
     8.8 TO ASIZES FULLY TENSIONED TO AS4100, DESIGNED AS A BEARING TYPE JOINT.
- S11. ALL BOLTS SHALL BE OF SUCH A LENGTH THAT AT LEAST ONE FULL THREAD IS EXPOSED BEYOND THE NUT AFTER THE NUT HAS BEEN TIGHTENED.
- S12. ALL FOOTING BOLTS TO HAVE A MINIMUM THREAD PROTRUSION OF 3 THREADS. FOOTING BOLTS TO HAVE MINIMUM 500 EMBEDMENT ON MAIN COLUMNS, 250 EMBEDMENT ON ALL OTHER FOOTINGS.
- SI3. MINIMUM ONE WASHER SHALL BE USED UNDER THE NUT IN ALL SITUATIONS. IF TIGHTENING IS CARRIED OUT AT THE HEAD, AN ADDITIONAL WASHER SHALL BE USED UNDER THE HEAD. FOR SLOTTED HOLES USE HARDENED WASHER UNDER THE NUT AND BOLT HEAD.
- S14. UNLESS NOTED OTHERWISE, ALL MATERIAL TO BE: -□GRADE 300 PLUS HOT ROLLED PLATES, FLATS, ANGLES TO -GRADE 300 WB, WC. -GRADE 300 WB, WC. -GRADE 300 WB, WC. -GRADE 330L0 SHS, RHS, CHS. -GRADE 330L0 SHS, RHS, CHS.
- S15. ALL WELDS SHALL BE STRUCTURAL PURPOSE WELDS IN ACCORDANCE WITH AS4100, AS1554.1 AND AS1554.2 SHEAR STUDS SHALL BE WELDED IN ACCORDANCE WITH AS1554.2 ALL WELDS SHALL BE GAS METAL ARC-WELDED USING B-G49 GRADE WELDING CONSUMABLES UNLESS NOTED OTHERWISE.
- S16. BUILDER TO ALLOW FOR TRIMMING PURLINS TO HIPS, VALLEYS, OPENINGS, ETC. NOT SHOWN ON PLANS.
- S17. CFW: DENOTES CONTINUOUS FILLET WELD. FSBW: DENOTES FULL STRENGTH BUTT WELD. FPBW: DENOTES FULL PENETRATION BUTT WELD. PPBW: DENOTES PARTIAL PENETRATION BUTT WELD. STEELWORK SYMBOLOGY:



- DENOTES WEB CONNECTION
- S18. REFER TO ARCHITECTURAL SPECIFICATIONS FOR DURABILITY AND PAINT TREATMENT OF ALL EXPOSED STEELWORK.
- S19. STEELWORK FIRE RATING REQUIREMENTS ARE TO MEET THOSE SPECIFIED BY THE BUILDING SURVEYOR.

## **PROPOSED WAREHOUSE 12** FOR GLENN BRAGANZA **28 PLATINUM COURT THURGOONA, NSW 2640**

#### **GENERAL NOTES JOB 21065** REV DESCRIPTION THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH STRUCTURAL COMPUTATIONS SUPPLIED BY LAKER

#### PAGE 2 OF 14 | A | PRELIMINARY SIZE A3 SCALE

C THIS DRAWING IS THE PROPERTY OF CENTRAL STEELBUILD. THIS DRAWING & ANY ASSOCIATED DRAWINGS AND/OR COMPUTATIONS MUST NOT BE MANUFACTURED FROM, COPIED OR TRANSMITTED TO A THIRD PARTY WITHOUT WRITTEN PERMISSION FROM CENTRAL STEELBUILD.



GROUP S21. SAFETY MESH IS TO BE INSTALLED IN ACCORDANCE WITH AS 4389 SAFETY MESH OVER PURLINS IN ANY AREA WITH RISK OF FALLS FROM HEIGHT BEFORE ANY ROOF ACCESS BY PERSONNEL UNLESS OTHER SUITABLE MEANS OF FALL PROTECTION ARE EMPLOYED AT THE DISCRETION OF THE PRINCIPAL CONTRACTOR.

STRUCTURAL CERTIFICATION

CHRISTOPHER AKERS

REGISTRATION NO: PE0000845

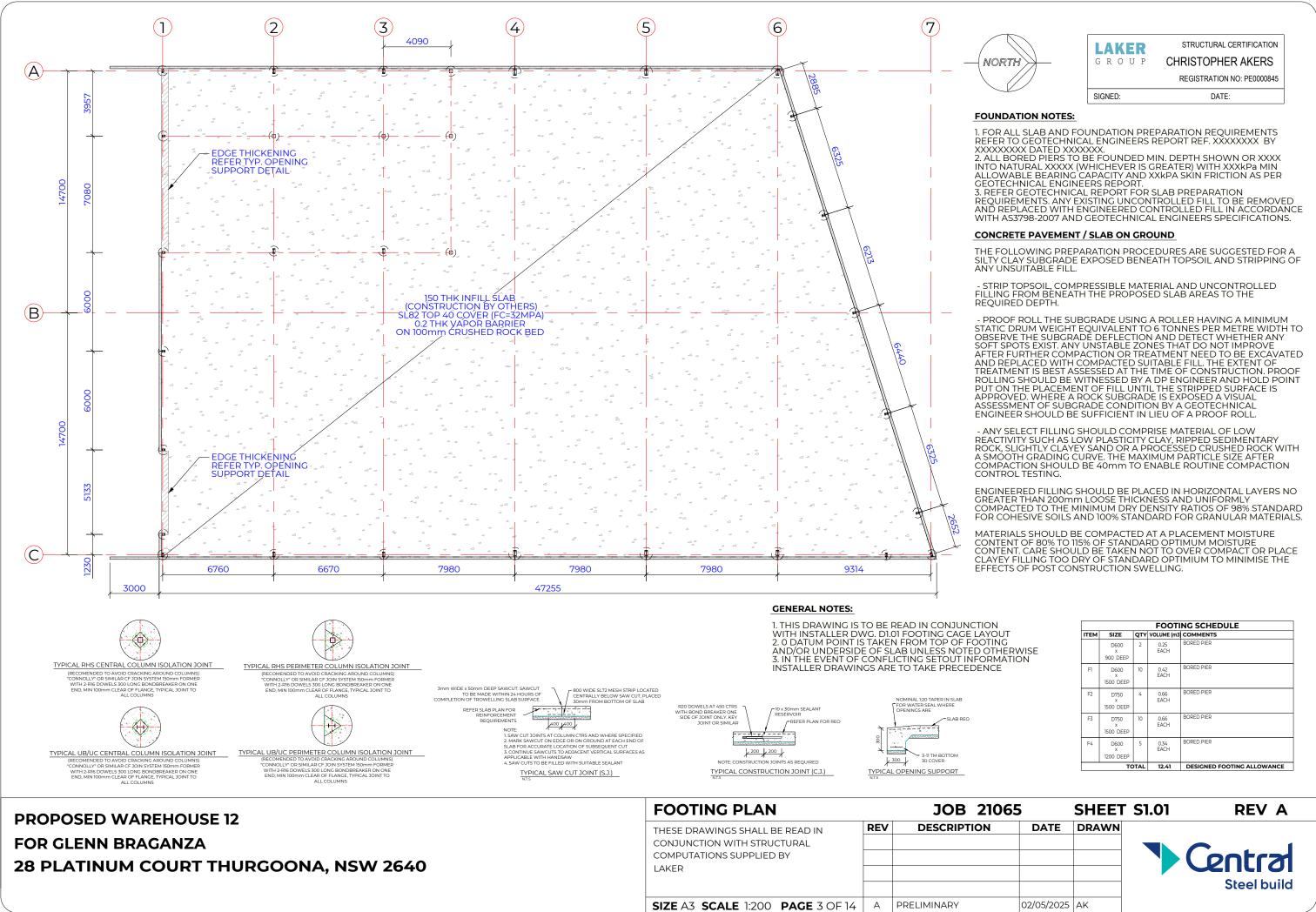
SIGNED

LAKER

DATE:

		STRUC	TURA	L DESI	GN DA			
LI.	CONSTR REQUIR FOR TH	RUCTION CATE EMENTS OF AS IS PROJECT AR	GORY IN 5/NZS 513 E OUTLI	I ACCORDA 31. THE COI NED IN TH	ANCE WIT NSTRUCT E TABLE	TH THE ION CATEGORIES BELOW.		
	ELEME	NT		ALL STRU STEELWO	JCTURAL DRK UNO	LIST OF EXCEPTIONS TO CC		
	SERVIC FABRIC	TANCE LEVEL CE CATEGORY CATION CATEG		- SC FC	21			
L2.	DRAWIN RELEVA	NGS HAVE BEE INT STANDARD TRALIA FOR TH	N DESIC	SNED IN AG RALIA COD OWING LO	CORDAN ES AND T ADINGS, I	L HESE STRUCTURAL ICE WITH THE HE BUILDING CODE PLEASE REFER TO THE JSAGE (IF ANY).		
L3.	SUPERI	MPOSED LOAE	os					
	FLOOR	USAGE	LIVE LO	DAD (kPa)		UPERIMPOSED EAD LOAD (kPa)		
	ROOF MEZZ. F SLAB CRANE	LOOR		-				
L4.	WIND L	OADS IN ACCC		E WITH AS	1170.2			
	BASIC \	WIND SPEED (r	m/s)			-		
	REGION	٨			-			
	TERRAI	N CATEGORY			-			
	STRUCT	TURAL IMPORT	ANCE			-		
L5.	SNOWL	_OADS IN ACCO	DRDANC	E WITH AS				
	SNOW	REGION				-		
	GROUN	ID SNOW LOAI	) Sg (kN	/m²)		-		
L6.	EARTHO	QUAKE DESIGN	I PARAM	IETERS TO	AS1170.4			
	STF	RUCTURAL IMP LEVEL AS DEFI BCA PART	NED IN	CE		-		
	PROBA	BILITY FACTOR	₹ kp			-		
	HAZAR	D FACTOR Z				-		
	SITE SU	JB-SOIL CLASS				-		
	EARTHQUAKE DESIGN CATEGORY -							
		SHEET	r so	0.01		<b>REV A</b>		
	TE	DRAWN						

02/05/2025 AK

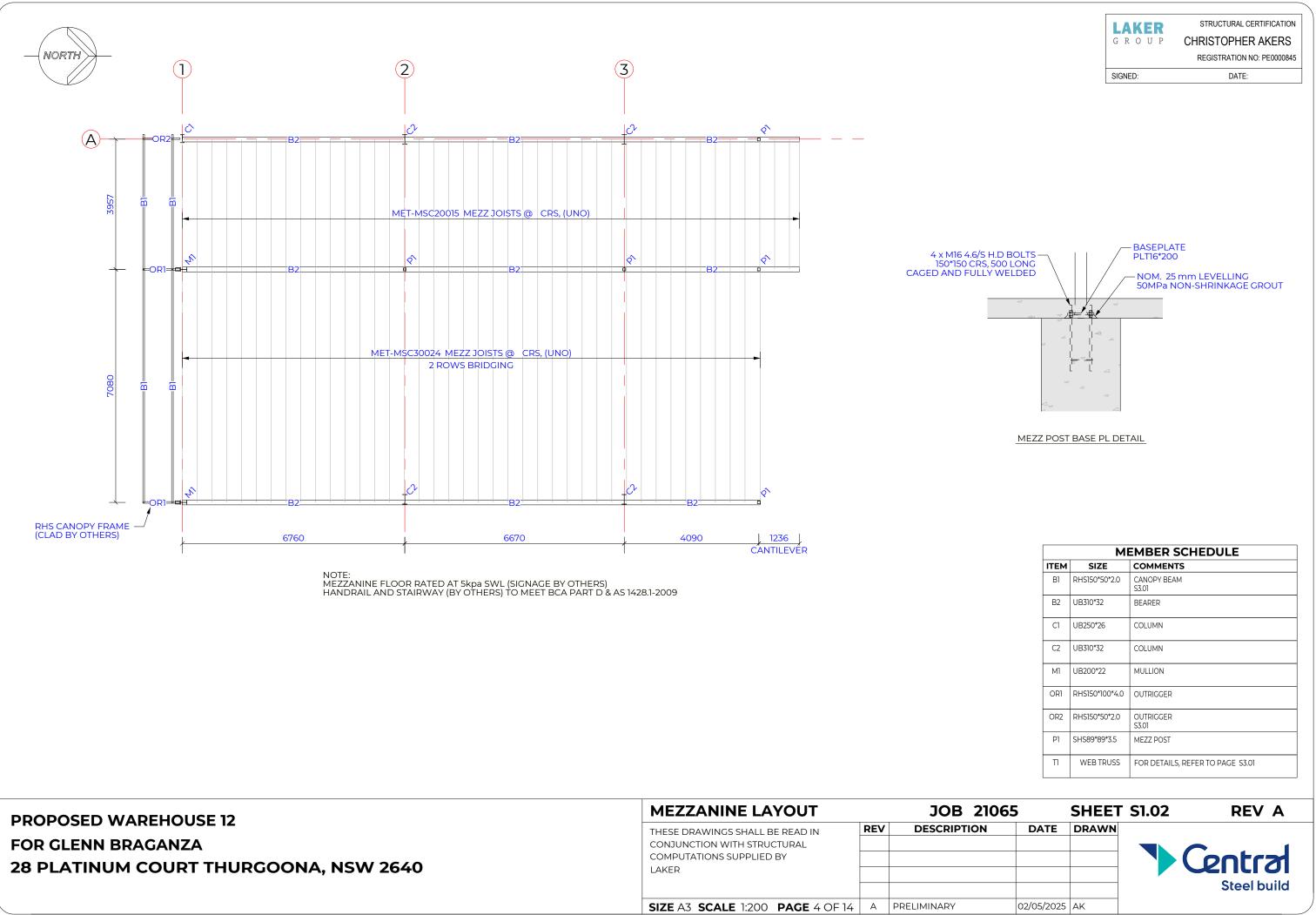


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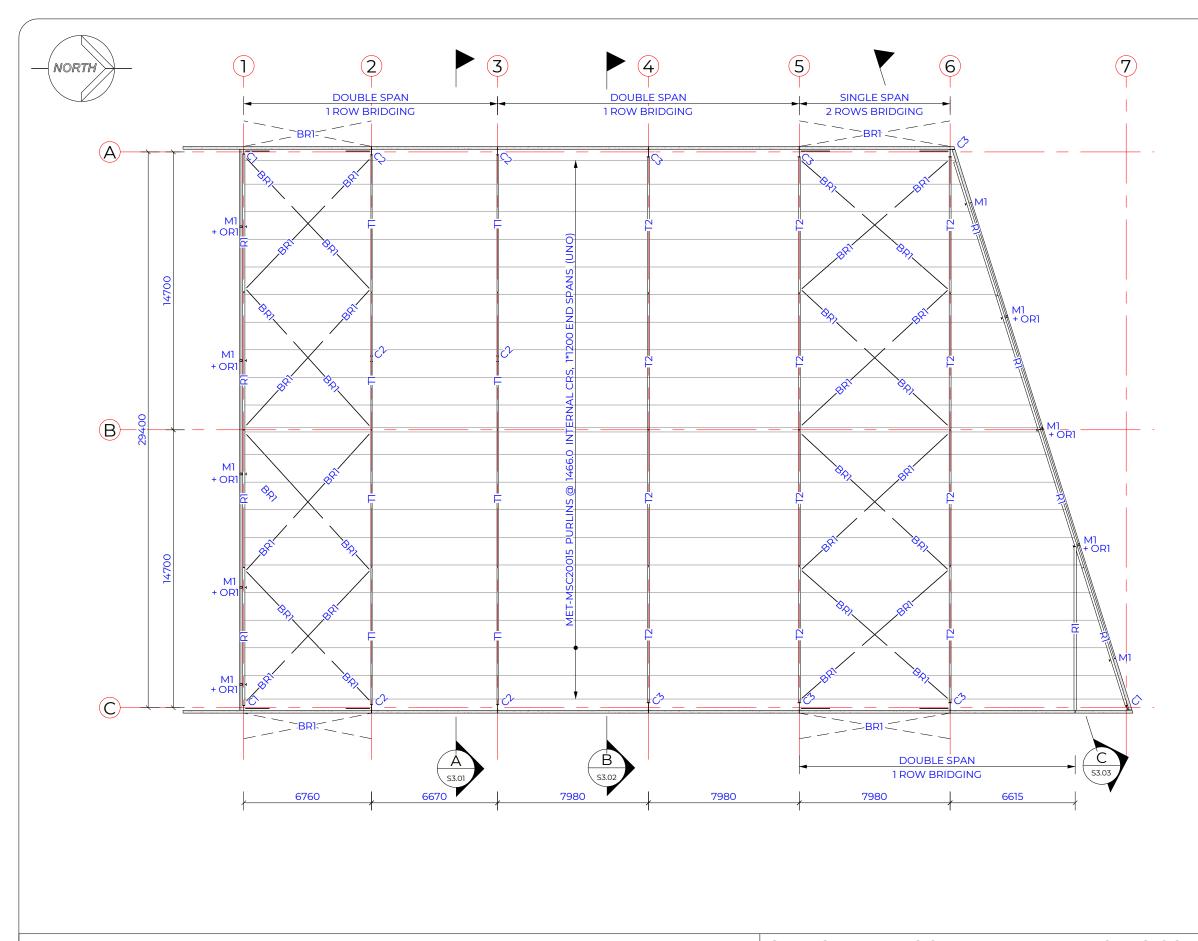
LAKER
GROUP

	FOOTING SCHEDULE						
ITEM	SIZE	QTY	VOLUME (m3)	COMMENTS			
	D600 x 900 DEEP	2	0.25 EACH	BORED PIER			
FI	D600 x 1500 DEEP	10	0.42 EACH	BORED PIER			
F2	D750 x 1500 DEEP	4	0.66 EACH	BORED PIER			
F3	D750 x 1500 DEEP	10	0.66 EACH	BORED PIER			
F4	D600 x 1200 DEEP	5	0.34 EACH	BORED PIER			
	тс	TAL	12.41	DESIGNED FOOTING ALLOWANCE			





MEMBER SCHEDULE					
ITEM	SIZE	COMMENTS			
B1	RHS150*50*2.0	CANOPY BEAM S3.01			
B2	UB310*32	BEARER			
C1	UB250*26	COLUMN			
C2	UB310*32	COLUMN			
M1	UB200*22	MULLION			
OR1	RHS150*100*4.0	OUTRIGGER			
OR2	RHS150*50*2.0	OUTRIGGER S3.01			
Ρl	SHS89*89*3.5	MEZZ POST			
П	WEB TRUSS	FOR DETAILS, REFER TO PAGE \$3.01			



PROPOSED WAREHOUSE 12	STRUCTURAL ROOF PLAN	JOB 21065		
	THESE DRAWINGS SHALL BE READ IN	REV	DESCRIPTION	$\square$
FOR GLENN BRAGANZA	CONJUNCTION WITH STRUCTURAL COMPUTATIONS SUPPLIED BY			
28 PLATINUM COURT THURGOONA, NSW 2640	LAKER			_
	<b>SIZE</b> A3 <b>SCALE</b> 1:200 <b>PAGE</b> 5 OF 14	A	PRELIMINARY	0



### STRUCTURAL CERTIFICATION

CHRISTOPHER AKERS REGISTRATION NO: PE0000845

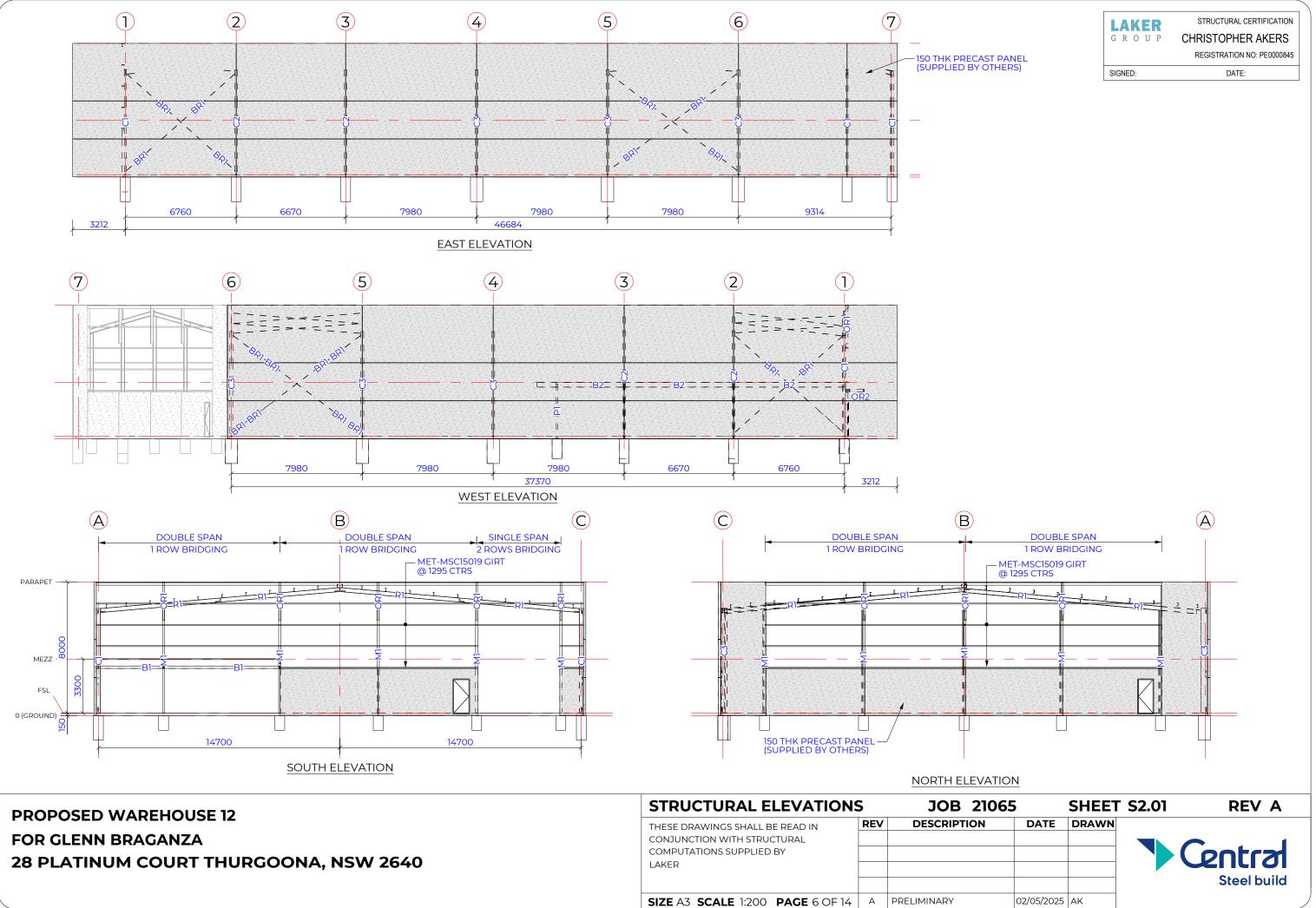
SIGNED:

DATE:

SOLAR NOTE: ALLOWANCE MADE FOR 15kg PER SQM

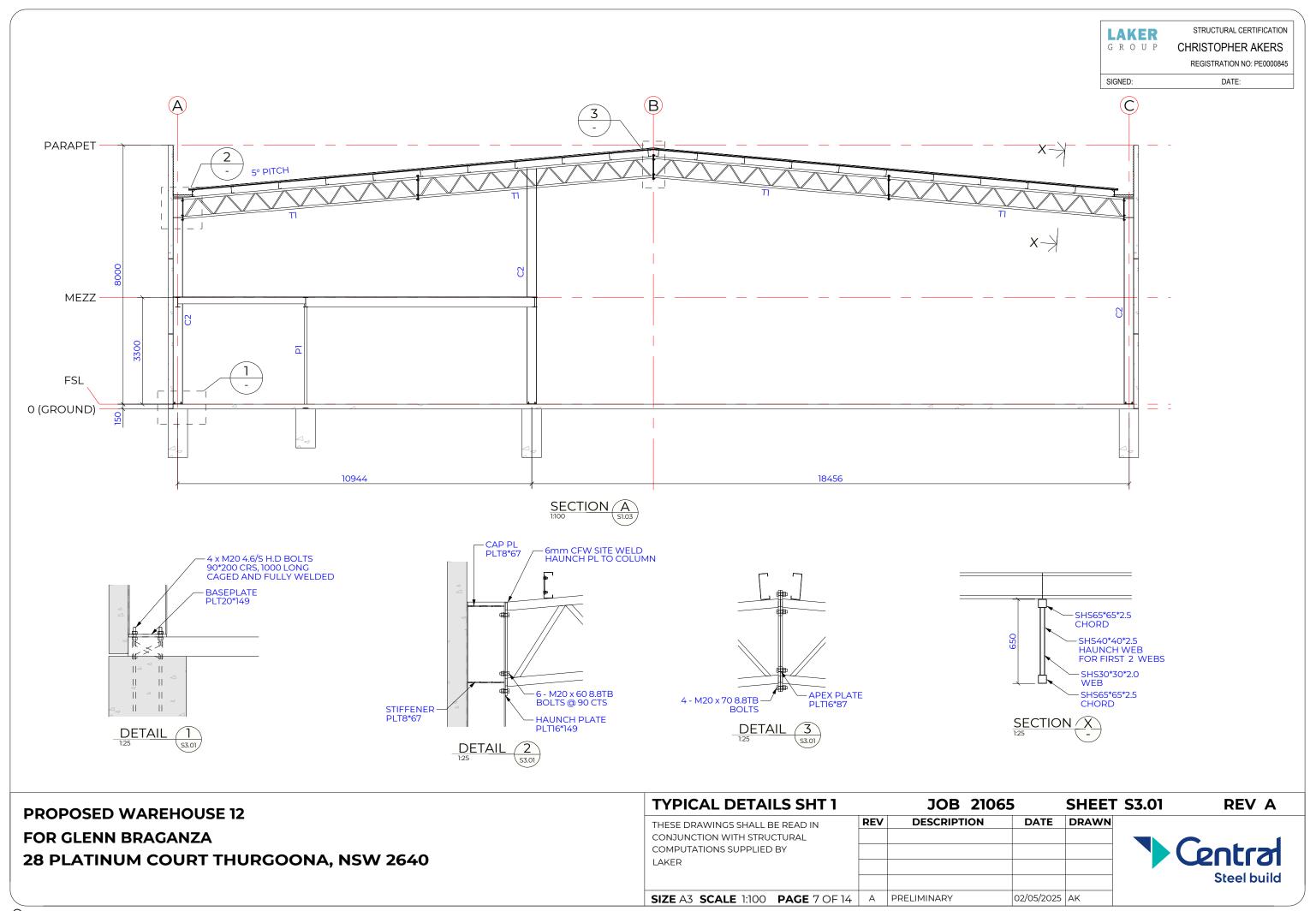
ТЕМ	SIZE	COMMENTS
BR1	D16	D16 ROD
C1	UB250*26	COLUMN
C2	UB310*32	COLUMN
C3	UB410*54	COLUMN
M1	UB200*22	MULLION
OR1	RHS150*100*4.0	OUTRIGGER
R1	UB250*26	RAFTER S3.01
TI	WEB TRUSS	FOR DETAILS, REFER TO PAGE \$3.01
T2	WEB TRUSS	FOR DETAILS, REFER TO PAGE \$3.02

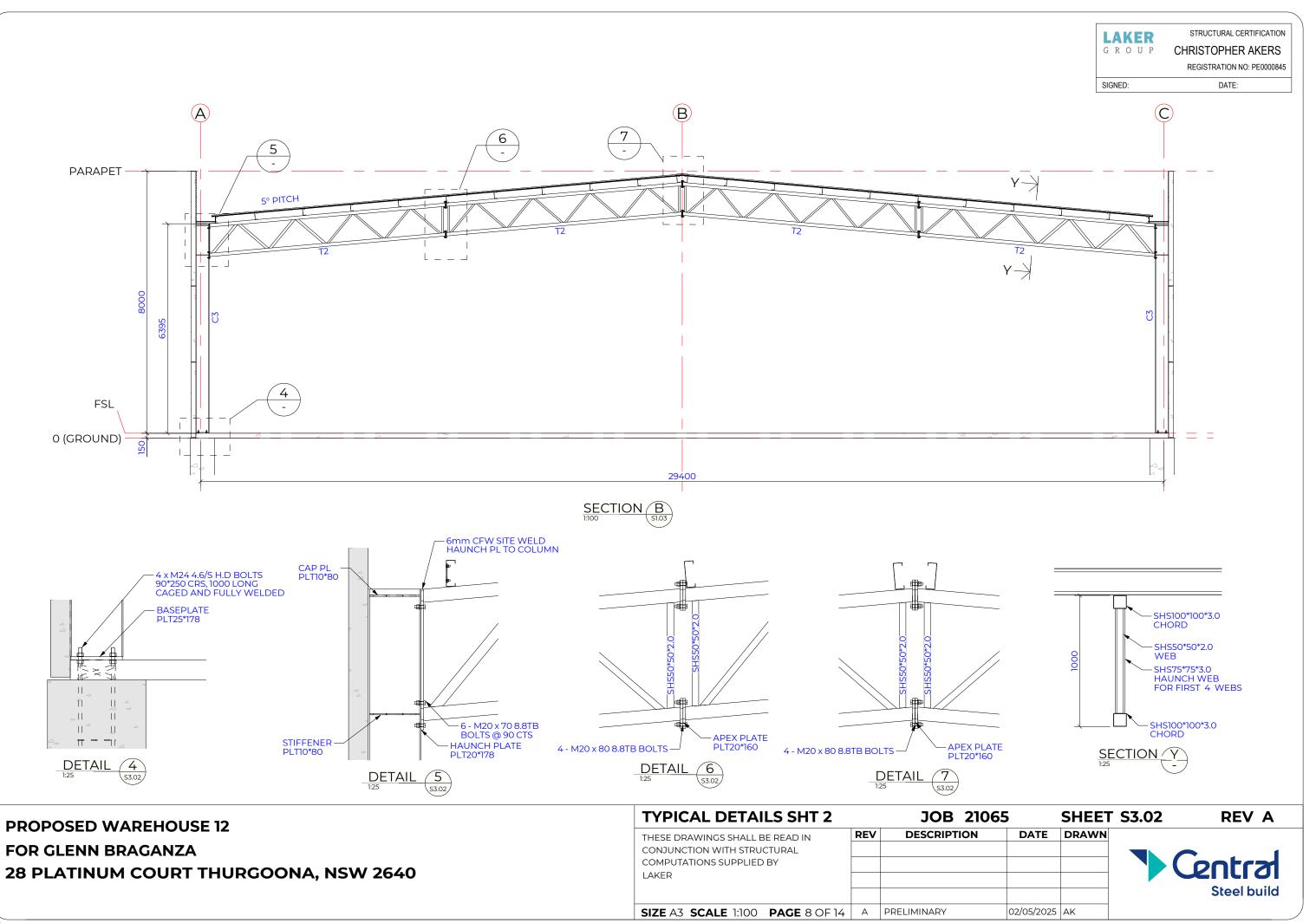




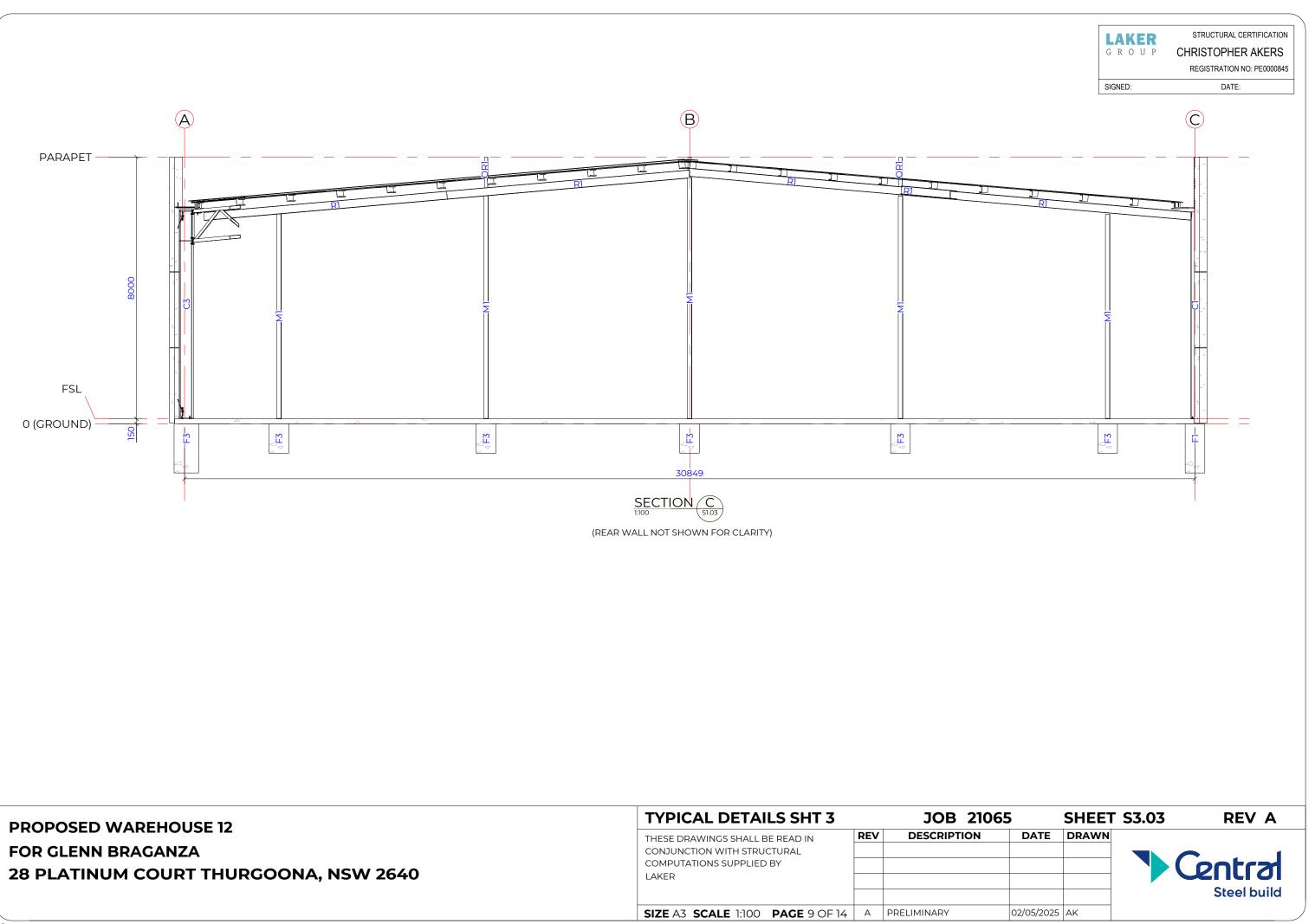


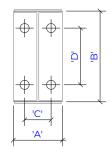


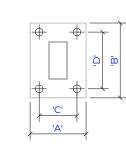


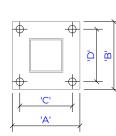


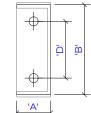
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UB/UC BASEPLATE DETAIL

RHS BASEPLATE DETAIL

SHS/CHS BASEPLATE DETAIL

PFC BASEPLATE DETAIL

		BASE	PLATE & FOOTIN	G CAGE DETAILS			
	STEEL MEMBER SIZE	'A' BASE PLATE WIDTH	'B' BASE PLATE WIDTH	'T' BASE PLATE THICKNESS	'C' BOLT HOLE CENTRES	'D' BOLT HOLE CENTRES	'BS' HOLD DOWN BOLT SIZE
	UB150*14	110	138	16	70	70	M16 4.6S
	UB150*18	110	143	16	70	70	M16 4.6S
	UB180*16	110	161	16	70	100	M16 4.6S
	UB180*18	110	163	16	70	100	M16 4.6S
	UB180*22	110	167	16	70	100	M16 4.6S
	UB200*18	110	186	16	70	120	M16 4.6S
	UB200*22	133	190	16	70	120	M16 4.6S
	UB200*25	133	191	16	70	120	M16 4.6S
	UB200*30	134	195	16	70	120	M16 4.6S
	UB250*26	130	240	16	70	150	M20 4.6S
	UB250*31	146	243	16	70	150	M20 4.6S
	UB250*37	146	245	16	70	150	M20 4.6S
_	UB310*32	149	286	20	90	200	M20 4.6S
ILLES	UB310*40	165	292	20	90	200	M20 4.6S
	UB310*46	166	295	20	90	200	M20 4.6S
5	UB360*45	171	340	20	90	250	M20 4.6S
	UB360*51	171	344	20	90	250	M20 4.6S
	UB360*57	172	347	20	90	250	M20 4.6S
	UB410*54	178	391	25	90	250	M24 4.6S
	UB410*60	178	394	25	90	250	M24 4.6S
	UB460*67	190	442	25	120	300	M24 4.6S
	UB460*75	190	445	25	120	300	M24 4.6S
	UB460*82	191	448	25	120	300	M24 4.6S
	UB530*82	209	516	25	120	350	M30 4.6S
	UB530*92	209	521	25	120	350	M30 4.6S
	UB610*101	228	590	25	120	400	M30 4.6S
	UB610*113	228	595	25	120	400	M30 4.6S
	UB610*125	229	600	25	120	400	M30 4.6S

PROPOSED WAREHOUSE 12
FOR GLENN BRAGANZA
28 PLATINUM COURT THURGOONA, NSW 2640

	STEEL MEMBER SIZE	'A' BASE PLATE WIDTH	'B' BASE PLATE WIDTH	'T' BASE PLATE THICKNESS	'C' BOLT HOLE CENTRES	'D' BOLT HOLE CENTRES	'BS' HOLD DOWN BOLT SIZE
	UC150*23	152	140	16	90	90	M16 4.6S
-	UC150*30	153	146	16	90	90	M16 4.6S
	UC150*37	154	150	16	90	90	M16 4.6S
	UC200*46	203	191	16	120	120	M16 4.6S
_	UC200*52	204	194	16	120	120	M16 4.6S
ILLES	UC200*60	205	198	16	120	120	M16 4.6S
UC PROFILES	UC250*73	254	242	16	150	150	M20 4.6S
S	UC250*90	256	248	16	150	150	M20 4.6S
	UC310*97	305	296	20	180	180	M20 4.6S
	UC310*118	307	303	20	180	180	M20 4.6S
	UC310*137	309	309	20	180	180	M20 4.6S
	UC310*158	311	315	20	180	180	M20 4.6S
	RHS250*150	260	360	20	200	300	M20 4.6S
RHS PROFILES	RHS200*100	198	298	20	150	250	M20 4.6S
	RHS150*100	198	248	20	150	200	M16 4.6S
	RHS150*50	148	248	20	100	200	M16 4.6S
RH	RHS125*75	173	223	16	125	175	M16 4.6S
	RHS100*50	148	198	12	100	150	M16 4.6S
	SHS250 OR CHS219	360	360	20	300	300	M20 4.6S
	SHS200 OR CHS165	310	310	20	250	250	M20 4.6S
FILES	SHS150 OR CHS140	248	248	20	200	200	M16 4.6S
CHS PROFILES	SHS125 OR CHS114	223	223	16	175	175	M16 4.6S
s/ CH3	SHS100 OR CHS100	198	198	12	150	150	M16 4.6S
/SHS/	SHS89 OR CHS89	187	187	12	139	139	M16 4.6S
	SHS75 OR CHS75	173	173	12	125	125	M16 4.6S
	PFC380	100	368	20	-	250	M20 4.6S
F	PFC300	90	288	12	-	200	M20 4.6S
ES	PFC250	90	238	12	-	150	M20 4.6S
PFC PROFILES	PFC230	75	218	12	-	150	M20 4.6S
PFCP	PFC200	75	188	12	-	120	M16 4.6S
F	PFC180	75	169	12	-	100	M16 4.6S
	PFC150	75	140.5	12	-	70	M16 4.6S

STANDARD STEEL DETAIL			JOB 2106	5
THESE DRAWINGS SHALL	BE READ IN	REV	DESCRIPTION	Γ
CONJUNCTION WITH STRUCTURAL				
COMPUTATIONS SUPPLIE	D BY			
LAKER				
				+
SIZE A3 SCALE 11	<b>PAGE</b> 10 OF 14	Α	PRELIMINARY	02/

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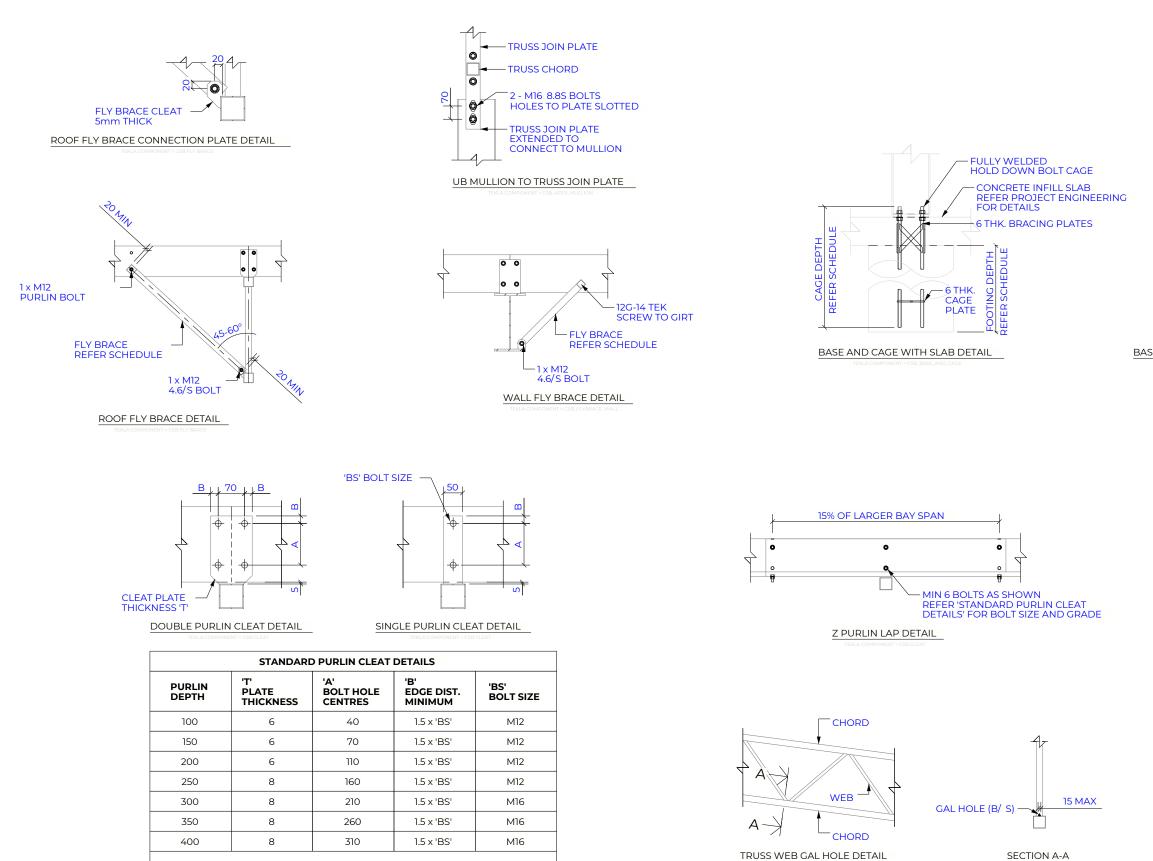
CHRISTOPHER AKERS REGISTRATION NO: PE0000845

SIGNED:

DATE:

))

54.01 REV A



1. SINGLE CLEAT TO BE A MINIMUM OF 8mm FOR ALL PURLIN SIZES 2. SEE SUPPLIER DOCUMENTATION FOR BOLT GRADE REQUIREMENTS

PROPOSED WAREHOUSE 12 FOR GLENN BRAGANZA 28 PLATINUM COURT THURGOONA, NSW 2640 

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 SIZE A3 SCALE 1:1
 PAGE 11 OF 14
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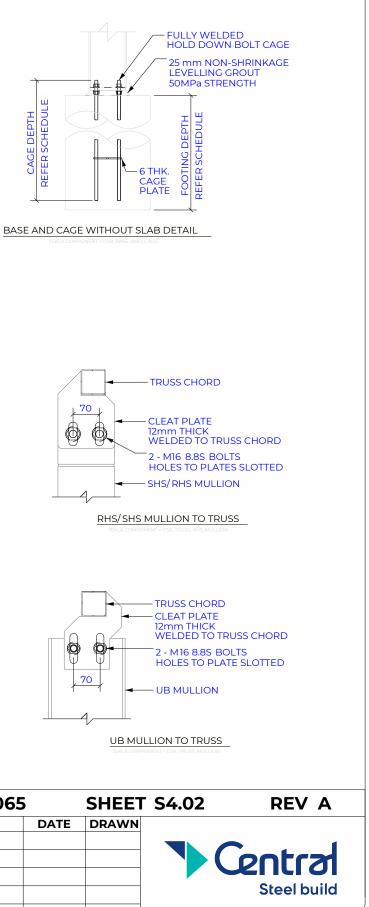
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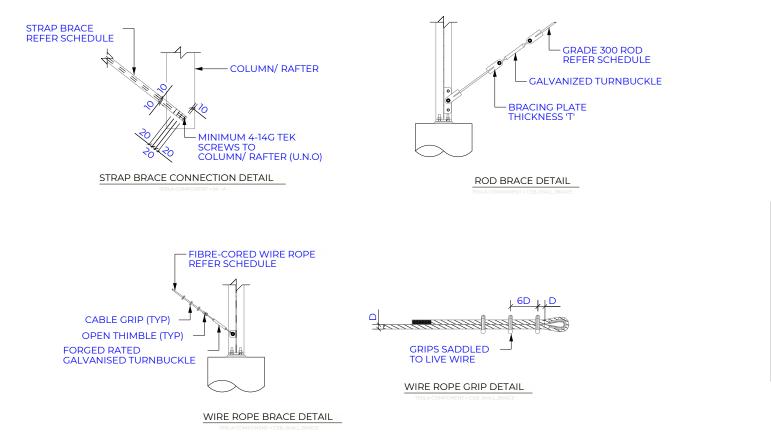


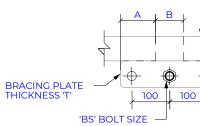
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REGISTRATION NO: PE0000845

DATE:



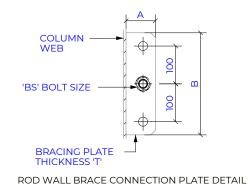




ROD ROOF BRACE CONNECTION PLATE DETAIL

ROD ROOF BRACE CLEAT DETAILS								
ROD DIA			CLEAT DIM		'T'	'BS'		
		'A'	'B'	'C'	'D'	PLATE THICKNESS	BOLT SIZE	
16	M16	30	50	50	65	12	M16 8.8S	
20	M20	30	50	50	65	16	M20 8.8S	
24	M22	30	50	50	65	20	M24 8.8S	
30	M28	30	50	50	65	25	M30 8.8S	
		•		•	•		•	

1. DIMENSION 'C' TO BE A MINIMUM OF CHORD WIDTH OR LISTED VALUE, WHICHEVER IS GREATER 2. DIMENSION 'B' TO BE EQUAL TO OR LARGER THAN DIMENSION 'C'



ROD WALL BRACE CLEAT DETAILS									
ROD DIA	TURNBUCKLE	CLEAT DIMENSIONS				T	'BS'		
	SIZE	'A'	'B'	'C'	'D'	PLATE THICKNESS	BOLT SIZE		
16	M16	70	260	-	-	12	M16 8.8S		
20	M20	82	272	-	-	16	M20 8.85		
24	M22	82	272	-	-	20	M24 8.8S		
30	M28	100	290	-	-	25	M30 8.8S		

	TURNBUCKLE	MIN NO.	TIGHTENING		CLEAT DIMENSIONS					
ROPE DIA	SIZE FORGE-RATED	OF GRIPS	TORQUE (N.m)	'A'	'B'	'C'	'D'	PLATE THICKNES		
8	M16	3	6	30	50	50	65	12		
10	M16	3	16	30	50	50	65	12		
12	M16	3	24	30	50	50	65	12		
14	M16	4	35	5	100	75	65	12		
16	M20	4	50	5	100	75	65	12		
	2. DIMENSI	ON 'B' TO BE EQ	IINIMUM OF CHOI UAL TO OR LARGI 124 8.8S BOLT CO	ER THAN DIMENS		CHEVER IS GREA	TER			

**PROPOSED WAREHOUSE 12** FOR GLENN BRAGANZA **28 PLATINUM COURT THURGOONA, NSW 2640** 

TRUSS CHORD

1 - M20 8.8S

WIRE ROPE ROOF BRACE CONNECTION PLATE DETAIL

BOLTS

BRACING PLATE

THICKNESS 'T'

STANDARD STEEL DETAILS	S 3	JOB 21065	5
THESE DRAWINGS SHALL BE READ IN	REV	DESCRIPTION	[
CONJUNCTION WITH STRUCTURAL			
COMPUTATIONS SUPPLIED BY			
LAKER			
<b>SIZE</b> A3 <b>SCALE</b> 1:1 <b>PAGE</b> 12 OF 14	А	PRELIMINARY	02/

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COLUMN WEB

BOLT

BRACING PLATE

12mm THICK

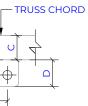
WIRE ROPE WALL BRACE CONNECTION PLATE DETAIL

1 - M20 8.8S



### STRUCTURAL CERTIFICATION

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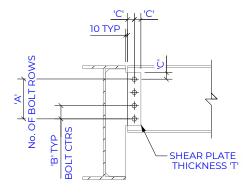


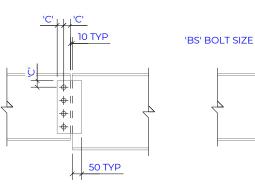
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BEAM TO BEAM DETAIL - TYPE 1

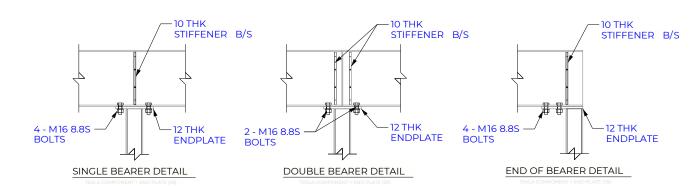
BEAM TO BEAM DETAIL - TYPE 2

BEAM TO COLUMN DETAIL

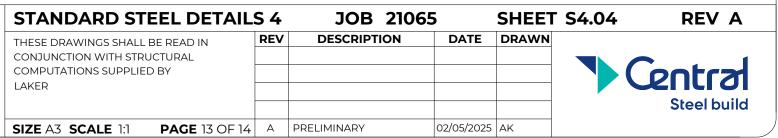
'C' L L L'C'

10 TYP

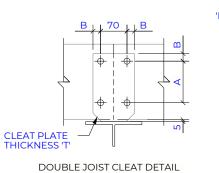
STANDARD SHEAR PLATE CONNECTION DETAILS - UB & PFC BEAMS									
MEMBER SIZE		'A' # OF BOLT	'B' BOLT HOLE	'C' EDGE DIST.	'BS'	'T' PLATE	'W' WELD		
UB	PFC	ROWS	CENTRES	MINIMUM	BOLT SIZE	THICKNESS	SIZE		
150UB	150PFC	2	50	1.5 x 'BS'	M12 8.8S	10	6 CFV		
180UB	180 PFC	2	70	1.5 x 'BS'	M16 8.8S	12	6 CF		
200UB	200PFC 230PFC	2	70	1.5 x 'BS'	M16 8.8S	12	6 CF\		
250UB	250PFC	3	70	1.5 x 'BS'	M16 8.8S	12	6 CF\		
310UB	300PFC	3	70	1.5 x 'BS'	M20 8.85	12	6 CF\		
360UB	380PFC	4	70	1.5 x 'BS'	M20 8.85	16	6 CF\		
410UB	-	4	70	1.5 x 'BS'	M20 8.85	16	6 CFV		
460UB	-	5	70	1.5 x 'BS'	M20 8.85	16	6 CF\		
530UB	-	6	70	1.5 x 'BS'	M20 8.85	16	6 CFV		
610UB	-	7	70	1.5 x 'BS'	M20 8.8S	16	6 CF		

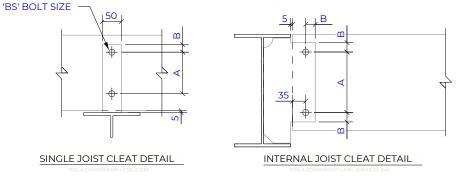


## **PROPOSED WAREHOUSE 12** FOR GLENN BRAGANZA 28 PLATINUM COURT THURGOONA, NSW 2640



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	STANDAR	D JOIST CLEAT	DETAILS	
JOIST DEPTH			'B' EDGE DIST. MINIMUM	'BS' BOLT SIZE
100	6	40	1.5 x 'BS'	M12 8.8S
150	6	70	1.5 x 'BS'	M12 8.8S
200	6	110	1.5 x 'BS'	M12 8.8S
250	8	160	1.5 x 'BS'	M12 8.8S
300	8	210	1.5 x 'BS'	M16 8.8S
350	8	260	1.5 x 'BS'	M16 8.8S
400	8	310	1.5 x 'BS'	M16 8.8S

1. SINGLE CLEAT TO BE A MINIMUM OF 8mm THICK FOR ALL PURLIN SIZES

END PLATE 12mm THICK OUTRIGGER PLATE 16mm THICK DOOR BEAM **REFER SCHEDULE** DOOR BEAM REFER SCHEDULE COLUMN 4 - M12 8.8S BOLTS DOOR BEAM OUTRIGGER DETAIL - TYPE 1 OUTRIGGER PLATE 16mm THICK DOOR BEAM REFER SCHEDULE END PLATE 12mm THICk

DOOR BEAM OUTRIGGER DETAIL - TYPE 2

4 - M12 8.85 BOLTS

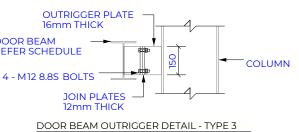


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CHRISTOPHER AKERS REGISTRATION NO: PE0000845

SIGNED:

DATE:



### **CONCRETE PANEL NOTES**

ALL PANELS ARE TO BE 150mm THICK UNLESS NOTED OTHERWISE. REINFORCEMENT OF PANELS AS SHOWN ON TYPICAL PANEL ELEVATIONS. PANELS MUST NOT BE LIFTED UNTIL A CONCRETE STRENGTH OF 32MPa HAS BEEN ACHIEVED. (CONCRETE STRENGTH USED 40 MPa, SLUMP 60mm). THE CASTING BED IS TO BE COATED WITH AN APPROVED BOND BREAKER TO LIMIT ANY SUCTION WHEN LIFTED. THE CRANE USED FOR LIFTING PANELS IS TO HAVE A MINIMUM CAPACITY OF 3 TIMES THE WEIGHT OF PANEL BEING LIFTED. ALL PANELS TO BE POSITIONED ON "KOROLATH" SHIMPAKS (OR SIMILAR

APPROVED) AT EACH END OF PANELS

ON SITE THE CRANE IS TO HOLD THE PANELS UNTIL SHIMPAKS AND ALL FIXINGS ARE IN POSITION, INCLUDING TEMPORARY PROPS. FOR FILLING AND OR FIRE RATING OF ALL GAPS AND FIRE RATING OF PANEL FIXINGS (NOT CONC, ENCASED) REFER DETAILS. THE PANEL MANUFACTURER IS TO ALLOW FOR SHRINKAGE OF PANELS TO

ACHIEVE DIMENSIONS REQUIRED BY ARCHITECT.

ALL PANEL FIXINGS ARE TO BE HOT DIPPED GALVANISED EXCEPT WHERE WELDING IS REQUIRED. THESE FIXINGS ARE TO BE COATED WITH AN APPROVED PAINT ON SITE.

APPROVED PAINT ON SITE. THE PANEL MANUFACTURER IS TO PROVIDE THE ENGINEER WITH THE TYPE OF ALL LIFTING AND FIXING EQUIPMENT FOR APPROVAL. BOTH THE STEEL AND PANEL DETAILERS ARE TO WORK IN CONJUNCTION WITH EACH OTHER TO DETERMINE BLOCKOUT SITES ETC. THE BUILDER IS TO SYNCHRONIZE THE ERECTION OF BOTH THE PANELS AND STEELWORK ON BOUNDARIES OR WHERE CRANE ACCESS IS LIMITED AND INFORM THE ENGINEER OF PROPOSED ERECTION SEQUENCE. PRECAST MANUFACTURER TO PROVIDE TWO SETS OF FULLY DETAILED SHOP DRAWINGS OF ALL PANELS INSEPTS EIVINGS ANCHOPS ROLTS EEDDILLES PRECAST MANUFACTURER TO PROVIDE TWO SETS OF FULLY DETAILED SHOP DRAWINGS OF ALL PANELS, INSERTS, FIXINGS, ANCHORS, BOLTS, FERRULES, PENETRATIONS, LIFTING DEVICES ETC. TO ENGINEER FOR APPROVAL. STRUCTURAL DESIGN : THE CONSULTING ENGINEER HAS DESIGNED THE PRECAST UNITS FOR IN-SERVICE CONDITIONS ONLY. (IE LOADS THE PRECAST PANELS ARE SUBJECTED TO AFTER ERECTION ON SITE). THE PRECAST MANUFACTURER IS TO PROVIDE COMPUTATIONS FOR APPROVAL FOR STRESSES DUE TO REMOVAL FROM MOULD, HANDLING, LIFTING, TDANIGODITATION AND EDECTION

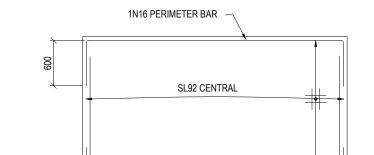
CSB TAKES NO RESPONSIBILITY FOR THE FOLLOWING - OVERALL SIZE / DIMENSIONS OF PRECAST PANELS - PENETRATION LOCATIONS

TRANSPORTATION AND ERECTION.

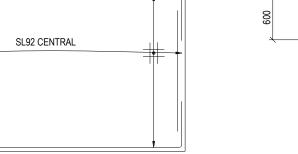
- FERRULE LOCATIONS

- CAST IN PLATE LOCATIONS LIFTING DEVICES ANY OTHER FIXINGS / INSERTS

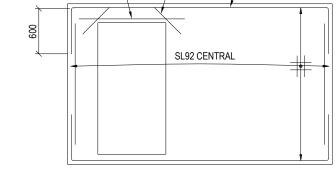
PRECAST PANELS SHOWN ON THIS SET OF DRAWINGS ARE INDICATIVE ONLY. IT IS THE PANEL MANUFACTURER'S RESPONSIBILITY TO ENSURE PANELS CONFORM TO BOTH STRUCTURAL AND ARCHITECTURAL DESIGN REQUIREMENTS.



TYPICAL 150 THK PANEL



N.T.S



2N16 PERIMETER BAR

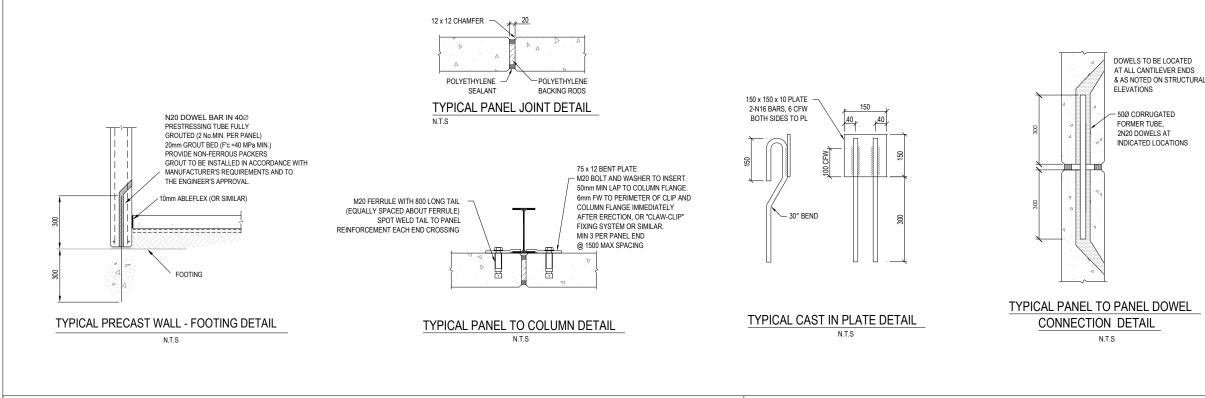
OVER OPENING

-N16 RE-ENTRANT

BAR

TYPICAL 150 THK PANEL WITH DOOR OPENING

N.T.S



PROPOSED WAREHOUSE 12	TYPICAL PANEL DETAILS	JOB 21065		
FOR GLENN BRAGANZA 28 PLATINUM COURT THURGOONA, NSW 2640	THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH STRUCTURAL COMPUTATIONS SUPPLIED BY LAKER		DESCRIPTION	
	SIZE A3 SCALE 1:1 PAGE 14 OF 1	4 A	PRELIMINARY	02

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DATE:

### -1N16 PERIMETER BAR

