GENERAL

- G1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION, ARCHITECTURAL DRAWINGS, OTHER CONTRACT DOCUMENTATION AND THE REQUIREMENTS OF THE RELEVANT AUTHORITIES.
- G2. VERIFY ALL SETTING OUT DIMENSIONS WITH THE ARCHITECT
- G3. DO NOT OBTAIN DIMENSIONS BY SCALING THE STRUCTURAL ELEMENTS.
- G4. SHOULD ANY AMBIGUITY, ERROR, OMISSION, DISCREPANCY, INCONSISTENCY OR OTHER FAULT EXIST OR SEEM TO EXIST IN THE CONTRACT DOCUMENTS. IMMEDIATELY NOTIFY IN WRITING TO THE SUPERINTENDENT.
- G5. MAINTAIN THE STRUCTURE IN A STABLE CONDITION DURING CONSTRUCTION. NO PART SHALL BE OVER STRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR TO KEEP THE WORKS AND THE EXCAVATIONS STABLE AT ALL TIMES.
- G6. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CURRENT SAA CODES AND THE BY-LAWS, ORDINANCES OR OTHER REQUIREMENTS OF THE RELEVANT BUILDING AUTHORITIES.
- G7. WHERE NOTES REFER TO THE SPECIFICATION, COMPLY WITH THE REQUIREMENTS OF NATSPEC BUILDING SPECIFICATION AS A MINIMUM UNLESS MODIFIED BY THE CONTRACT DOCUMENT.
- G8 BUILDER IS TO CARRY OUT A DIAL BEFORE YOU DIG SURVEY & SERVICES SEARCH OF THE SITE TO IDENTIFY ALL SERVICES THAT MAY BE LOCATED IN AREAS OF EXCAVATION/CONSTRUCTION.
- G9 FIRE RATING OF STRUCTURAL ELEMENTS TO BE IN ACCORDANCE WITH THE BCA, PROJECT BCA REPORT (IF AVAILABLE), DA CONDITIONS AND BCA REQUIREMENTS
- G10. ABBREVIATIONS USED GENERALLY:
 - CHECK/ CONFIRM ON SITE COS
 - UNLESS NOTED OTHERWISE UNO ΤYΡ – TYPICALLY
 - NOT SHOWN ON PLAN NSOP
 - NSOF – NOT SHOWN ON ELEVATION
 - 170 - INDICATES SLAB OR BAND THICKNESS VARIATION

TEMPORARY WORKS AND PROPPING

- TW1. THESE DRAWINGS INDICATE THE STRUCTURE IN ITS FINAL/ PERMANENT STATE, TEMPORARY WORKS, PROPPING AND INTEGRITY OF THE EXISTING STRUCTURE DURING THE CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE BUILDER.
- TW2. THE BUILDER MUST ENGAGE AN APPROPRIATELY QUALIFIED ENGINEER TO PROVIDE DESIGN, ADVICE AND CERTIFICATION FOR ALL TEMPORARY WORKS INCLUDING (BUT NOT LIMITED TO)
 - NEEDLING
 - TEMPORARY PROPPING – TEMPORARY BRACING
 - PRECAST ERECTION AND TEMPORARY SUPPORT
 - SHORING

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- FORMWORK – SCAFFOLDING
- CRANE/ PLANT LOADS EXERTED ON THE STRUCTURE
- TW3. SAFE ERECTION OF THE PERMANENT STRUCTURAL ELEMENTS (EG PRECAST/ STRUCTURAL STEELWORK) REMAINS THE RESPONSIBILITY OF THE BUILDER AND THEIR SPECIALIST SUB-CONTRACTORS. THE BUILDER MUST CONTACT SDA SHOULD THEY REQUIRE ANY MODIFICATIONS OF THE PERMANENT WORKS TO BE MADE TO ENSURE SAFE ERECTION AND WORK PLACE.

WHS - SAFETY IN DESIGN

REFER TO THE SUMMARY OF RESIDUAL RISKS SCHEDULE THAT HAS BEEN PREPARED BY SDA AS PART OF A RISK ASSESSMENT CARRIED OUT IN ACCORDANCE WITH THE SAFETY IN DESIGN WHS ACT - 2011 REQUIREMENTS. THE SCHEDULE SHOULD BE KEPT IN THE SITE SAFETY WHS FILE.

NOTWITHSTANDING THIS SCHEDULE, THE PRINCIPAL CONTRACTOR IS ASSUMED TO BE A COMPETENT AND EXPERIENCED LICENSED CONTRACTOR WHO IS AWARE OF THEIR OBLIGATIONS UNDER THE RELEVANT WHS ACT 2011 AND THE WORK HEALTH AND SAFETY REGULATIONS, AND THE SAFE WORK AUSTRALIA - SAFE DESIGN OF STRUCTURES - CODE OF PRACTICE.

GENERALLY THE PRINCIPAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EXISTING STRUCTURE IN A SAFE AND STRUCTURALLY SOUND CONDITION THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS, HOWEVER THE SUGGESTED CONSTRUCTION SEQUENCES NOTED ON THE DRAWINGS MAY BE USED AS A BASIS FOR TENDERING/ PRICING THE WORKS AND AN ASSESSMENT OF THE RISK AND SAFETY ISSUES ASSOCIATED WITH THE CONSTRUCTION OF THAT ELEMENT. THE FINAL CONSTRUCTION SEQUENCE REMAINS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR AND DETAILS ARE TO BE SUBMITTED FOR REVIEW PRIOR TO WORKS PROCEEDING.

LOADS ADOPTED FOR DESIGN

LIVE LOADS (LL)

WIND

- LL = 5.0kPa or 4.5kN POINT (PUBLIC)
- LL = 5.0kPa (RETAINING STRUCTURE SURCHARGE) LL = 31kN POINT MEDIUM VEHICLE TRAFFIC

CONSTRUCTION LOADS DUE TO STACKED MATERIALS, PROPPING OF SLABS OVER AND TEMPORARY WORKS SHOULD NOT EXCEED THE DESIGN LOADS (LL+SDL) NOTED ABOVE (TAKING INTO ACCOUNT AGE OF CONCRETE ETC.).

= A2 TERRAIN CATEGORY = 3

SITE WIND CLASSIFICATION TO AS4055-2011 = N2 (EQUIVALENT)

EARTHQUAKE LOADS TO AS1170.4-2007: DESIGN CATEGORY = ISUB SOIL CLASS = Be k₀Z = 0.08

FOUNDATIONS

×0~ $\overline{}$ F1. FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF ?.??kPa, SHAFT ADHESION ?.??kPa

- F2. THE BUILDER SHALL OBTAIN APPROVAL FROM THE SUPERVISING ENGINEER/BUILDER INSPECTOR AS TO THE SUITABILITY OF THE FOUNDATION MATERIAL PRIOR TO PLACING CONCRETE.
- F3. ANY WEAK OR DEFECTIVE AREAS OF FOUNDATION SOIL SHALL BE REMOVED AND REPLACED WITH SOUND GRANULAR MATERIAL (COMPACTED IN LAYERS. EACH NOT MORE THAN 100mm THICK, TO ACHIEVE A MINIMUM DRY DENSITY RATIO OF 98% - STANDARD COMPACTION).
- F4. EXCAVATION NEAR EXISTING FOOTINGS INCLUDING EXCAVATION FOR SERVICE TRENCHES SHALL NOT EXTEND BELOW FOUNDATION LEVEL WITHOUT THE ENGINEERS APPROVAL
- F5. DO NOT BACKFILL RETAINING WALLS (OTHER THAN CANTILEVERED WALLS) UNTIL FLOOR CONSTRUCTION AT TOP AND BOTTOM IS COMPLETE.
- F6. IF ANY PART OF THE EXISTING OR NEW FOUNDATIONS BEAR ON ROCK. CONSULT ENGINEER AND ALLOW TO BEAR ALL NEW WORKS ON ROCK.
- F7. WHERE FIXINGS INTO ROCK ARE NOTED AS "EPOXY" OR "GROUT" FIXED THE FOLLOWING PRODUCTS ARE SUITABLE UNO: • "GROUT" FIXED - CEMENTITIOUS FLOWABLE GROUT
 - 'SIKA GROUT 212 HP' OR SIMILAR APPROVED. • "EPOXY" FIXED – SIKADUR 42HF EPOXY GROUT OR
 - RAMSET CHEMSET RE0502 OR HILTI HIT RE500 OR SIMILAR APPROVED.

ANY FIXING INTO ROCK TO BE HOT DIP GALVANISED.

F8. REFER TO GEOTECHNICAL REPORT: No. ???, DATED ??? BY ???

PILES

- P1. BORED PILES ARE TO BE INSTALLED TO THE DEPTH SHOWN ON DRAWINGS OR BEARING STRATA AS NOTED IN THE GEOTECHNICAL REPORT. REFER NOTE F8.
- P2. CONTRACTOR TO ENGAGE GEOTECHNICAL ENGINEER TO CONFIRM ALL FOUNDATIONS AND FOOTINGS.
- P3. WORKMANSHIP AND MATERIALS FOR PILES SHALL BE IN ACCORDANCE WITH AS2159. PILES TO HAVE ±75mm SURFACE POSITION PERPENDICULAR AND PARALLEL TO THE PILE LINE AND 1% VERTICAL TOLERANCE.
- P4. NO FORM LINING IS REQUIRED TO THE EXCAVATED FACE UNLESS EXCAVATION IS REQUIRED TO BE RETAINED.
- P5. REINFORCEMENT TO PILES SHALL BE FABRICATED INTO CAGES AND CAREFULLY LOWERED INTO POSITION SO AS TO AVOID DISLODGING MATERIAL INTO THE EXCAVATION. REINFORCEMENT TO PILES SHALL BE SECURELY HELD IN CORRECT POSITION DURING CONCRETING OPERATIONS.
- P6. D0 NOT CUT, HEAT OR WELD REINFORCEMENT WITHOUT WRITTEN PERMISSION FROM THE SUPERVISING ENGINEER.
- P7. PROVIDE FULL LAP LENGTH TO VERTICAL BARS OF PILES ABOVE FINISHED CONCRETE
- P8. CONCRETE WORKS AND MATERIALS TO BE IN ACCORDANCE WITH AS3600.
- P9. PLACING METHODS SHALL BE SUBMITTED TO THE SUPERINTENDENT BEFORE PLACING ANY CONCRETE. PILE EXCAVATION TO BE COMPLETELY CLEANED AND FREE OF DEBRIS AND WATER AT THE TIME OF PLACING CONCRETE.
- P10. CONCRETE TO PILES SHALL BE PLACED USING A TREMIE TUBE PLACED CENTRALLY WITHIN THE REINFORCEMENT CAGE. THE MAXIMUM DROP PERMITTED FROM UNDERSIDE OF TREMIE TUBE TO PLACEMENT LEVEL TO BE 3m. THE TREMIE TUBE AND ENTRY HOPPER WILL BE SUPPORTED INDEPENDENTLY FROM THE REINFORCING CAGE AND SHALL BE WITHDRAWN AS CONCRETING PROCEEDS.
- P11. COMPACTION OF FRESHLY PLACED CONCRETE SHALL BE CARRIED OUT IMMEDIATELY AND CONTINUOUSLY USING MECHANICAL IMMERSION TYPE VIBRATORS. IN THE CASE OF PILES THE VIBRATOR SHALL BE LOWERED INSIDE THE REINFORCEMENT CAGE AND VIBRATION SHALL BE CO-ORDINATED WITH TREMIE PLACEMENT. THE MAXIMUM DEPTH OF CONCRETE PLACED IN PILES PRIOR TO VIBRATION SHALL BE TWO LINEAL METRES.
- P12. CONSTRUCTION JOINT AT TOP OF PILE SHALL BE HAND FINISHED TO PROVIDE A DENSE LEVEL SURFACE FREE FROM LAITANCE.

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									WITHOUT THE EXPRESS AUTHORITY OF
									ONLY USE FIGURED DIMENSIONS.
P1	PRELIMINARY ISSUE	28.02.24	КМ						DO NOT SCALE DRAWINGS. ALL DISCREPANCIES TO BE REFERRED T
ISSUE	AMENDMENT	DATE	CHECKED	ISSUE	AMENDMENT	DATE	CHECKED	· ·	ENGINEER PRIOR TO CONSTRUCTION.

DRAWING UNDER REVIEW

CONCRETE

- C1. ALL CONCRETE WORKS AND MATERIALS ARE TO BE IN ACCORDANCE WITH AS3600 - CONCRETE STRUCTURES CODE (CURRENT EDITION) AND AS1379-2007 - SPECIFICATION AND SUPPLY OF CONCRETE.
- C2. CONCRETE COMPRESSIVE STRENGTH (f'c), SHALL BE AS FOLLOWS TO AS1379:

ELEMENT	f'c @ 28 DAYS	SLUMP	MAX AGG
PILES & PIERS	N32 MPa	80	20
FOOTINGS	N32 MPa	80	20
COLUMNS & WALLS	N32 MPa	120	20
PROPRIETARY CONC. WALLS (SUCH AS AFS, DINCEL, ETC)	S32 MPa	REFER MANU SPECIFI	JFACTURERS CATION
BEAMS	N40 MPa	80	20
SUSPENDED SLABS	N40 MPa	80	20
SLABS ON GROUND	N25 MPa	80	20

ADDITION OF WATER ON SITE TO CONCRETE SHALL NOT BE PERMITTED.

- C3. THE MIX PARAMETERS NOTED MAY BE VARIED BY THE CONTRACTOR TO SUIT SPECIFIC PROJECT REQUIREMENTS AND PLACING METHODS (EG. CLASS 1 AND/ OR CLASS 2 CONCRETE FINISH). CONTRACTOR TO SUBMIT PROPOSED MIX DESIGN AND PARAMETERS FOR REVIEW.
- C4. REFER TO PROPRIETARY CONCRETE WALL/ COLUMN SPECIFIC TECHNICAL GUIDE (SUCH AS AFS, DINCEL, ETC.) FOR CONCRETE PLACING, VIBRATION AND SPECIFIC MIX REQUIREMENTS.
- C5. REFER PROJECT SPECIFICATION FOR PROJECT ASSESSMENT AND TESTING REQUIREMENTS.
- C6. REINFORCEMENT IS TO BE FIXED SO AS TO ACHIEVE THE FOLLOWING CLEAR COVERS:

		COVER (mm)			
	ELEMENT	FORMED	SURFACES CAST		
		FINISH	AGAINST GROUND		
PILES & PIERS		-	50		
FOOTINGS		50	50		
140/ 190 BLOCK	WALLS	55	55		
290 BLOCK WAL	LS	65	65		
WALLS COLUMNS	INTERNAL	40	40		
	EXTERNAL	40	40		
	INTERNAL	40	40		
	EXTERNAL	40	40		
BEAMS & BAND BEAMS	INTERNAL	20	50		
	EXTERNAL	40	50		
SUSPENDED	INTERNAL	20	-		
SLABS	EXTERNAL	40	-		
SLABS ON	WITH MEMBRANE	20 (TOP)	30 (ВОТТОМ)		
GROUND	WITHOUT MEMBRANE	30 (TOP)	50 (BOTTOM)		

C7. COMPACT AND VIBRATE ALL CONCRETE USING MECHANICAL VIBRATORS.

- C8. FOLLOWING PLACEMENT, CONCRETE SHALL BE CURED FOR AT LEAST 3 DAYS WITH PLASTIC SHEET, DAMP HESSIAN, CONTINUOUS WATER OR APPROVED CURING COMPOUND WITH 90% EFFICIENCY TO AS3799. ALTERNATIVE METHODS OF CURING MAY BE ACCEPTABLE, PROVIDED APPROVAL FROM THE SUPERVISING ENGINEER HAS BEEN OBTAINED. EXTERNAL CONCRETE & POLISHED/TOPPING SLAB TO BE CURED FOR A MINIMUM OF 7 DAYS.
- C9. SLABS BEARING ON GROUND SHALL BE LAID ON 0.2mm POLYTHENE MEMBRANE CONTINUOUS WITH MINIMUM 20mm LAP & TAPED AT JOINTS, PUNCTURES & SERVICE PIPE PENETRATIONS.

CONCRETE REPAIR

AREAS OF CONCRETE THAT ARE REQUIRED TO BE REPAIRED (INCLUDED AREAS OF CONCRETE THAT HAVE BEEN DEMOLISHED), SHALL BE TREATED AS FOLLOWS:

- CR1. MARK OUT AREA OF CONCRETE TO BE REPAIRED.
- CR2. PROP SURROUNDING SLAB AS REQUIRED. CR3. BREAKAWAY CONCRETE TO EXPOSE REINFORCEMENT AND TAKE BACK UNTIL CLEAN SOUND REINFORCEMENT AND CONCRETE HAS BEEN LOCATED. PROVIDE A MINIMUM 20mm CLEARANCE AROUND REINFORCEMENT FOR BONDING OF FUTURE SIKATOP/ SIKA MonoTop. ENSURE EDGES OF REPAIR AREAS ARE
- BEVELLED BACK. CR4. WIRE BRUSH CLEAN REINFORCEMENT TO REMOVE ALL RUST AND PAINT WITH "SIKATOP 110 EpoCem" (NOTE SIKA MonoTop 910N CAN BE USED INSTEAD OF SIKATOP 110 EpoCem).
- CR5. REPAINT REINFORCEMENT WITH "SIKATOP 110 EpoCem" & ADDITIONALLY PAINT CONCRETE SURFACE.
- CR6. ONCE "SIKATOP 110 EpoCem" IS TACKY, REPAIR AREA WITH "SIKA MonoTop 352NFG" MORTAR (BETWEEN 10mm-75mm THICKNESS). TO REPAIR THICKNESS BETWEEN 2mm-5mm USE "SIKA MonoTop 723N" INSTEAD OF 352NFG.

WHERE CONCRETE IS SAW CUT AND THE ENDS OF THE REINFORCEMENT ARE EXPOSED, THE EXPOSED ENDS & THE CUT CONCRETE FACE SHOULD BE PAINTED WITH "SIKATOP 110 EpoCem". A 2mm-5mm COAT OF "SIKA MonoTop 723N" SHOULD THEN BE APPLIED TO THE ENTIRE SURFACE.

MAKE GOOD WATERPROOFING TO ALL AREAS OF REPAIRED CONCRETE AS REQUIRED.

ALL REPAIR PRODUCTS ARE TO BE APPLIED IN ACCORDANCE WITH THE

MANUFACTURER'S RECOMMENDATIONS.

REINFORCEMENT

R1. REINFORCEMENT GRADE AND NOTATION IS AS FOLLOWS:

SYMBOL	BAR SHAPE	STRENGTH GRADE	DUCTILITY CLASS	TO COMPLY WITH
N	DEFORMED RIB BAR	500MPa	NORMAL	AS4671
R	PLAIN ROUND BAR	250MPa	NORMAL	AS4671
S	DEFORMED RIB BAR	250MPa	NORMAL	AS4671
RL	RECTANGULAR MESH DEFORMED BAR RIB	500MPa	LOW	AS4671
SL	SQUARE MESH DEFORMED BAR RIB	500MPa	LOW	AS4671
L-TM	TRENCH MESH	500MPa	LOW	AS4671

ALL REINFORCEMENT SHALL BE CERTIFIED TO ACRS SCHEME FOR COMPLIANCE WITH RELEVANT AUSTRALIAN STANDARDS.

- R2. CLEAR COVER TO REINFORCEMENT (INCLUDING FITMENTS) SHALL BE AS NOTED ON THE DRAWINGS. WHERE NOT SPECIFICALLY DESIGNATED COVER IS TO BE IN ACCORDANCE WITH AS3600
- R3. COVER TO REINFORCEMENT ENDS TO BE 45mm UNO
- R4. USE ONLY ALL PLASTIC OR CONCRETE CHAIRS IN EXTERNAL CONCRETE. ALL BAR CHAIRS TO COMPLY WITH AS/NZS 2425
- R5. PROVIDE N12@450 SUPPORT BARS TO TOP REINFORCEMENT AS REQUIRED, LAP 450 UNO
- R6. NO REINFORCEMENT SPLICES SHALL BE MADE, OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS, WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT/ENGINEER. MINIMUM LAP FOR FABRIC SHALL BE ONE MESH PLUS 50mm

	 <u> </u>	-	
_	50mm OVERLAP		
_	OF END WIRE		

- R7. DO NOT CUT, HEAT OR WELD REINFORCEMENT WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- R8. STAGGERED BARS ARE TO BE PLACED ALTERNATELY
- R9. REINFORCEMENT TO BE CHECKED BY ENGINEER PRIOR TO POURING. GIVE ENGINEER 48 HOURS NOTICE OF CHECK BEING REQUIRED & ALLOW SUFFICIENT TIME FOR ANY REMEDIAL WORK REQUIRED AFTER CHECKING PRIOR TO CONCRETE POUR.
- R10. THE MINIMUM CLEAR SPACING BETWEEN CONDUITS, CABLES, PIPES & BARS TO BE AS REQUIRED BY AS3600 BUT NOT LESS THAN THREE DIAMETERS. CONDUITS IN SLABS TO BE PLACED ABOVE BOTTOM REINFORCEMENT & BELOW TOP REINFORCEMENT
- R11. ALL RE-ENTRANT CORNERS AND SERVICE HOLES ARE TO HAVE 2 TRIMMER BARS TOP & BOTTOM, PLACED DIAGONALLY & CENTRALLY TO CORNERS (COG END IF REQUIRED) TOP TRIMMERS TIED TO THE UNDERSIDE OF TOP REINFORCEMENT & BOTTOM TRIMMERS TIED TO THE TOP OF THE BOTTOM REINFORCEMENT TRIMMER BARS TO MATCH SLAB REINF (N12 MIN & N16 MAX). TRIMMER BARS ARE ONLY REQUIRED IN THE TOP LAYER FOR SLAB LAID ON GROUND. TYP UNO ON PLAN.
- R12. HOOKS, BENDS, SPLICES & LAPS TO BE IN ACCORDANCE WITH AS3600
- R13. IF HYDRONIC HEATING PIPES ARE PROPOSED IN CONCRETE SLABS, THE BUILDER SHALL ENSURE THAT THE TOP LAYER OF REINFORCEMENT OR MESH IS LAID AT THE CORRECT COVER OVER THE PIPES & CO-ORDINATE THE REINFORCEMENT FIXING WITH THE HEATING CONTRACTOR. A LIGHT MESH (EG SL62) MAY BE USED TO FIX HYDRONIC PIPES IN LOCATION AS REQUIRED.
- INDICATES THE EXTENT OF AREA COVERED BY BARS WITH R14. ∎ 10-N16@250 10 BARS AT 250 CENTRES PLUS 4 EXTRA PLACED ONE +4-N16 PER SPACE CENTRALLY OVER COLUMN R15. INDICATES A CHANGE IN BAR SHAPE AND/OR LENGTH
- R16 INDICATES TO REPEAT SIMILAR GROUP OF BARS TAGGED < (T3)-> THUS (T3) WITH BARS LAID IN THE DIRECTION OF THE ARROW.
 - BAND TIES 2-N12@200 INDICATES TIES IN SETS OF TWO AT 200 SPACINGS.
- R18. ABBREVIATIONS USED IN REINFORCEMENT DETAILING:
- (1) LAID 1st (BOTTOM BOTTOM LAYER)
- (2) LAID 2nd (BOTTOM LAYER)
- (3) LAID 3rd (TOP LAYER)
- (4) LAID 4th (TOP TOP LAYER) db BAR DIAMETER
- EF EACH FACE
- EW EACH WAY

R17.

- NF NEAR FACE
- FF FAR FACE
- LV BAR LENGTH VARIES ALT BARS OF LENGTH &/OR SHAPE TO BE LAID ALTERNATELY



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DRAWING UNDER REVIEW JOB NUMBER RAWING NUMBER 24037 S0.01 **R**1 GENERAL NOTES SHEET 1 SCALE @ A1 CERTIFIED 26.02.24 N.A. DESIGNED DRAWN

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STUDIO 2

FORMWORK

- FW1. FORMWORK SHALL COMPLY WITH THE REQUIREMENTS OF AS3610 - FORMWORK FOR CONCRETE & AS3600 - CONCRETE STRUCTURES
- FW2. THE DESIGN OF THE FORMWORK SYSTEM INCLUDING BACK PROPPING AND RE-SHORING IN MULTI-LEVEL CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR AND THEIR SPECIALIST SUB-CONTRACTOR.

THE PERMANENT STRUCTURE HAS BEEN DESIGNED FOR THE 'LOADS ADOPTED IN DESIGN' NOTED IN THE GENERAL PROJECT NOTES, ASSUMING THAT THE CONCRETE HAS ACHIEVED THE REQUIRED I'C 28 DAY STRENGTH.

FW3. ALL FORMWORK, INCLUDING PROPPING AND RE-SHORING AND SEQUENCING OF FLOORS IN MULTI-LEVEL CONSTRUCTION, SHALL BE CERTIFIED BY A STRUCTURAL ENGINEER ENGAGED BY THE (AS APPLICABLE) CONTRACTOR. THE ENGINEER SHALL BE EXPERIENCED IN THE DESIGN OF FORMWORK SYSTEMS AND THE REQUIREMENTS OF FORMWORK STANDARDS AND THE RELEVANT OH+S AND SAFE WORK REQUIREMENTS.

FW4. FORMWORK STRIPPING – ALL FORMWORK SHALL REMAIN IN PLACE FOR A MINIMUM TIME AS NOTED BELOW TO ALLOW INITIAL CURING (AS3600 CL 4.4). AND ACHIEVE A MINIMUM AVERAGE COMPRESSIVE STRENGTH:

EXPOSURE CLASSIFICATION	MINIMUM INITIAL CONTINUOUS CURING TIME	MINIMUM COMPRESSIVE STRENGTH AT TIME OF STRIPPING
A1	3 DAYS	15 MPa
A2	3 DAYS	15 MPa
B1	7 DAYS	20 MPa
B2	7 DAYS	25 MPa
C1/ C2	7 DAYS	32 MPa

REMOVAL OF FORMWORK SUPPORTS FROM SLABS AND BEAMS NOT SUPPORTING STRUCTURES ABOVE AND NOT SUPPORTING CONSTRUCTION LOADS SHALL BE IN ACCORDANCE WITH AS3600 CL17.6 AND TABLE 17.6.2.5 (BELOW) UNLESS EARLY AGE CONCRETE HAS BEEN SPECIFIED. CONTRACTOR TO SUBMIT PROPOSED DETAILS FOR REVIEW.

AVERAGE AMBIENT TEMPERATURE OVER THE PERIOD (T)	PERIOD OF TIME BEFORE REMOVAL OF ALL FORMWORK SUPPORTS FROM REINFORCED MEMBERS
T > 20°C	12 DAYS
20°C > T > 12°C	18 DAYS
12°C > T > 5°C	24 DAYS

NO UNDISTURBED PROPS OR BACKPROPS SHALL BE REMOVED WITHIN TWO (2) DAYS OF PLACING ANY SLAB.



STRUCTURAL STEEL

 S2. STRUCTURAL STEELWORK FABR WITH AS/NZS 5131:2016 S3. CONSTRUCTION CATEGORY TO A S4. FABRICATE ARCHITECTURALLY E AS/NZS 5131: 2016. AESS CATEGORIES TO BE AS FO GENERAL STEELWORK: VISUALLY IMPORTANT STEELWOR S5. SUBMIT SHOP DETAIL DOCUMENT THE LAYOUT AND DETAIL OF TH CLAUSE 4.4 IN POF, CAD AND B ALLOW 5 WORKING DAYS FOR F S6. UNLESS NOTED OTHERWISE ALL STRENGTH GRADE AS FOLLOWS MEMBER SECTION BARS & RODS HOT ROLL PLATE HOT ROLLED SECTIONS (UB, UC, PFC, TFB, EA & UA) WELDED SECTIONS (WB, WC) RHS & SHS - HOLLOW SECTIONS CHS - HOLLOW SECTIONS STAINLESS STEEL COLD FORMED SECTIONS - PURLIN 1.0mm BMT 1.5mm BMT 1.5mm BMT 3.0mm BMT IF IT IS PROPOSED TO USE STR SUBMIT DOCUMENTATION WHICH WITH THE MINIMUM STRENGTH C FABRICATION TO AUSTRALIAN S SCHEME. S7. ALL DETAILS, GAUGE LINES ETC BE IN ACCORDANCE WITH AISC D STEEL AND AISC STANDARD ST S8. ALL BOLTS SHALL BE M20 GRA ALL CONNECTION USE IN STEEL CON ADDISC STANDARD ST S8. ALL BOLTS SHALL BE M20 GRA ALL CONNECTION PLATES TO BE S9. UNLESS NOTED OTHERWISE ALL CFW - CONTINUOUS FILLET WE FSBW - FULL STRENGTH BUT PPBW - PARTIAL PENETRATION S11. ALL WELDS SHALL BE 6mm CON ALL WELDING ELECTRODES TO E ALL WELDS TO BE SP TO ASIS! 	ICATION AND ERE S/NZS 5131:2016 EXPOSED STEELW OLLOWS: AESS1 ORK: AESS3 TATION TO A SCA HE WORK, CONFOR IM FORMAT AS R REVIEW AND RETU MATERIAL SHAL GRADE 250 250 250 300 C350 L0 C250 L0 316/316L DUA CERTIFIED V/ GIRT BASE ME G550, Z350 G450, Z350 CUTURAL STEEL DEMONSTRATES GRADES NOTED AN GASO, Z350 CUTURAL STEEL DEMONSTRATES GRADES NOTED AN CASS OF CONSENSE ADDES NOTED AN CONSENSENSE CONSENSE CONSENSENSENSE CONSENSENSE CONSENSENSE CONSENSENSE	TO BE <u>CC2</u> OR <u>CC3</u> . TO BE <u>CC2</u> OR <u>CC3</u> . TORK (AESS) TO SECTION 10 ALE THAT BEST DESCRIBES RMING TO AS/NZS 5131 REQUIRED. URN OF SHOP DETAILS L HAVE A MINIMUM TO COMPLY WITH AS 1442: 1992 AS 3678: 2011 AS 3679.1: 2010 AS 3679.2: 2010 AS 1163: 2009 AL TAL THICKNESS (BMT) AS 1397: 2011 AS 1397: 2011 A								
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	ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELDS UNO ALL WELDING ELECTRODES TO BE BE49XX UNO (fuw=490MPa) ALL WELDS TO BE SP TO AS1554.1 UNO									
WELDS.	BUTT WELDS WHERE SHOWN SHALL BE COMPLETE PENETRATION BUTT WELDS.									
S13. THE BUILDER SHALL PROVIDE A FOR FIXING OF STEELWORKS AN A STABLE CONDITION DURING EF	LL CLEATS AND ID ENSURE THAT RECTION.	DRILL ALL HOLES NECESSAI THE STRUCTURE IS KEPT II								
S14. REPAIR STEELWORK WHICH HAS COATING BY APPLYING 2 COATS "DULUX ZINCANODE 202" (IN AC SPECIFICATION OR EQUIVALENT) TO CLASS 3 (AS1627.2)	LOCALLY LOST S OF A ZINC RICH CORDANCE WITH TO 150 MICRONS,	HOT DIPPED GALVANIZED I EPOXY PRIMER SUCH AS MANUFACTURERS , AFTER POWER TOOL CLEA								
S15. STRUCTURAL STEELWORK REQU THE BCA. TO BE PROTECTED W INTUMESCENT PAINT. REFER SP RELEVANT DA CONDITION.	IRED TO HAVE AN /ITH PROPRIETAR PECIFICATION, PRO	N FRL IN ACCORDANCE WITH Y FIRE SPRAY, BOARD OR DJECT BCA REPORT &								
S16. IF WELDING GALVANISED STEEL "NON-ACTIVE" PAINT (NOT CON (2 COATS) AFTER WELDING MINII STEEL MEMBER. ENSURE ALL Z WELD AREA PRIOR TO WELDING.	TO STAINLESS S TAINING ZINC) SU(MUM 50mm FROM 'INC COATING REM	STEEL PAINT AREA WITH A CH AS DULUX DUREBILD S ⁻ WELD ALONG STAINLESS 10VED WITHIN 35mm OF THE								

STRUCTURAL STEEL CONTINUED

S17. STRUCTURAL STEELWORK SHALL HAVE THE SURFACES CLEAN AND TREATED AS FOLLOWS:

FOR EXTERNAL, EXPOSED STEELWORK REFER TO THE ARCHITECT FOR PAINTING SPECIFICATION. EXTERNAL CORROSION PROTECTION OF SELECTED PAINT SYSTEM TO BE EQUIVALENT TO CORROSIVE CATEGORY C3: MEDIUM AS PER AS4312 FOR MINIMUM DURABILITY/TIME TO FIRST MAINTENANCE OF 25+ YEARS.

AN EQUIVALENT PROTECTIVE SYSTEM WOULD BE

EXTERNAL AND EXPOSED STEELWORK ABRASIVE BLAST CLEAN TO AS1627.4, CLASS 2.5. 1st COAT- "DULUX ZINCANODE 402": DFT 75 MICRONS 2nd COAT- "DULUX FERREKO #3": DFT 125 MICRONS 3rd COAT- "DULUX FERREKO #3": DFT 125 MICRONS

STEELWORK IN CAVITIES HOT DIPPED GALVANISED (600g/m²) AS PER AS4680

INTERNAL STEELWORK

HAND OR TOOL CLEAN TO AS1627.4, CLASS 1 PROVIDE 1 COAT OF A ZINC RICH PRIMER SUCH AS "DULUX ZP" IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.

CHEMICAL ANCHORS

- CA1. UNLESS NOTED OTHERWISE, CHEMICAL ANCHORS SPECIFIED IN THESE DRAWINGS REFER TO RAMSET CHEMSET 101 PLUS WITH MINIMUM GRADE 5.8 ANCHOR.
- CA2. ALTERNATIVE CHEMICAL ANCHORS MAY BE SUBSTITUTED WITH PRIOR PERMISSION FROM THE SUPERINTENDENT.
- CA3. MINIMUM EDGE DISTANCE AND SPACING SETOUT OF THE ANCHORS ARE SPECIFIED ON THESE DRAWINGS. IF THE INSTALLED DISTANCES ARE LESS THAN THAT SPECIFIED NOTIFY THE SUPERINTENDENT FOR INSTRUCTION.
- CA4. CHEMICAL ANCHORS ARE TO BE STRICTLY INSTALLED TO MANUFACTURER'S INSTALLATION PROCEDURE.
- CA5. DIAMETER OF HOLES TO MANUFACTURE'S SPECIFICATION FOR NOMINATED BOLT/BAR DIAMETER. DRILL HOLES USING A ROTARY PERCUSSION DRILL. DO NOT CORE DRILL HOLES.
- CA6. ENSURE ALL HOLES ARE FULLY CLEANED OUT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION PRIOR TO CHEMICAL FILLING.
- CA7. CLEAN AND DEGREASE BOLT/BARS PRIOR INSTALLATION.
- CA8. ENSURE CHEMICAL IS ALLOWED TO FULLY CURE IN ACCORDANCE WITH MANUFACTURE'S DETAILS PRIOR TO LOADING BOLTS/BARS.

								NORTH	
									THIS DRAWING IS LUPTRIGHT AND MUST
									WITHOUT THE EXPRESS AUTHORITY OF
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									ONLY USE FIGURED DIMENSIONS.
									DO NOT SCALE DRAWINGS.
P1	PRELIMINARY ISSUE	28.02.24	КМ					+	ALL DISCREPANCIES TO BE REFERRED TO
ISSUE	AMENDMENT	DATE	CHECKED	ISSUE	AMENDMENT	DATE	CHECKED		

DRAWING UNDER REVIEW

BRICK & BLOCK WORK

- B1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE AS3700 - MASONRY STRUCTURES CODE. B2. MORTAR FOR THE MASONRY SHALL BE PROPORTIONED AS FOLLOWS (BY VOLUME) : GENERALLY SAND: 5 PARTS, LIME: 0 PART, CEMENT: 1 PART METHYL CELLULOSE WATER THICKENER TO BE USED. OR WITH NO ADDITIVES: SAND: 6 PARTS, LIME: 1 PART, CEMENT: 1 PART BELOW DAMP PROOF COURSE, IN RETAINING WALLS AND IN AREAS SUBJECT TO ATTACK FROM SALT SPRAY OR HEAVILY POLLUTED AREAS : SAND: 4 PARTS, LIME: 0 PART, CEMENT: 1 PART METHYL CELLULOSE WATER THICKENER TO BE USED. OR WITH NO ADDITIVES: SAND: 4.5 PARTS, LIME: 0.5 PART, CEMENT: 1 PART B3. ALL LOADBEARING BRICKWORK TO HAVE A MINIMUM UNCONFINED COMPRESSIVE STRENGTH OF f'uc=20MPa.
 - B4. REINFORCED BLOCK WALLS SHALL BE CORE FILLED WITH CONCRETE COMPRESSIVE STRENGTH (f'c) OF 25MPa MAX. 10mm AGGREGATE & 150 SLUMP (TYPICAL UNO) ALL BLOCKS TO HAVE A MINIMUM GRADE OF f'b=15MPa
 - B5. PROVIDE CLEAN OUT BLOCKS TO ALL CORE FILLED BLOCKWORK
 - B6. GALVANISED COURSE REINFORCEMENT SHALL BE PROVIDED AT VERTICAL SPACINGS EVERY 6th COURSE EQUAL TO: 110mm – MRBL 50
 - 230mm MRBL 150

ONE LAYER SHALL BE PROVIDED OVER AND UNDER ALL WINDOW AND DOOR OPENINGS AND EXTEND 300mm PAST OPENING.

- B7. CONTROL JOINTS ARE TO BE PROVIDED IN THE LOCATIONS INDICATED ON THE CONTRACT DOCUMENTS. IF NO CONTROL JOINTS ARE INDICATED THEY SHOULD BE PROVIDED AT SPACINGS RECOMMENDED BY THE BRICK OR BLOCK MANUFACTURER BUT AT SPACINGS NOT EXCEEDING 6m FOR BRICKWORK AND 8m FOR REINFORCED BLOCKWORK. CONFIRM LOCATION OF ALL CONTROL JOINTS WITH ARCHITECT AND ENGINEER PRIOR TO CONSTRUCTION
- B8. MASONRY SHALL NOT BE CONSTRUCTED ON SUSPENDED SLABS OR BEAMS UNTIL ALL FORMWORK AND PROPS HAVE BEEN REMOVED AND CONCRETE HAS ACHIEVED ADEQUATE STRENGTH.
- B9. NON-LOAD BEARING WALLS SHALL BE KEPT 20mm CLEAR OF SLAB AND BEAM SOFFITS. FILL GAP WITH APPROVED COMPRESSIBLE MATERIAL. PROVIDE LATERAL RESTRAINT TO TOPS OF ALL WALLS AS REQUIRED.
- B10. CONCRETE SLABS SUPPORTED ON MASONRY SHALL BE POURED ON GALV. METAL SLIP JOINTS OR EQUIVALENT FOR EXTERNAL WALLS OR 2 LAYERS OF 0.2mm THICK PVC FOR INTERNAL WALLS. SLIP JOINT TO HAVE FRL AS REQUIRED BY CERTIFIER. TOP COURSE OF BRICKS SHALL BE LAID FROGS DOWN.
- B11. CHASES, RECESSES AND RAKING OF JOINTS ARE NOT PERMITTED IN MASONRY WITHOUT THE APPROVAL OF THE ENGINEER.
- B12. WHERE INTERNAL BRICK OR BLOCK WALLS ABUT STEEL COLUMNS PROVIDE GALV CRIMPED FRAME TIES AT FOUR (4) COURSE VERTICAL CENTRES FOR BRICKWORK AND 2 COURSE VERTICAL CENTRES FOR BLOCKWORK. USE MASONRY EXPANSION TIE (MET) 1-6 300 LONG POWER FIXED WITH Ø3.8mm DRIVE PINS.
- B13. TEMPORARY BRACING SHALL BE PROVIDED TO WALLS AS NECESSARY TO MAINTAIN STABILITY DURING CONSTRUCTION.
- B14. ALL WALLS SHOWN AS 230 (TWO BRICKS WIDE) ARE BE CONSTRUCTED AS FULLY BONDED WITH HEADER COURSE EVERY 4th COURSE UNO
- B15. CONNECTORS, CAVITY TIES ETC FOR EXTERNAL WALLS TO BE STAINLESS STEEL (316 or 316L) IN ACCORDANCE WITH AS1449.
- B16. FOR APPLICATIONS WITHIN 1000m OF SURF COAST OR 100m OF NON-SURF COAST, EXTERNAL SHELF ANGLES AND LINTELS TO BE STAINLESS STEEL (GRADE 316L) OR HOT DIP GALVANISED (600g/m^2), THEN DEGREASE, WASH AND DRY BASE GALVANISED COATING, FOLLOWED BY SWEEP BLAST CLEANING. PLUS EITHER: 350 MICRONS OF HIGH-BUILD MIO EPOXY OR
 - 250 MICRONS OF HIGH-BUILD EPOXY WITH ADDITIONAL 100 MICRONS OF POLYURETHANE OR ACRYLIC GLOSS.

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MEMBER SCHEDULE				
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(o)	INDICATES MEMBER IS OVER ONLY			
BP1	Ø450 R.C. PILE			
BP2	Ø600 R.C. PILE			
FB1	450 DEEP x 600 FOOTING BEAM			
FB2	450 DEEP x 450 FOOTING BEAM			
SC1	200x200x9.0 SHS			
SC2	Ø168x7.1 CHS			
SC3	ORNAMENTAL TIMBER COLUMN TO ARCH.			
B1	250x150x9.0 RHS			
B2	250 UB 37.3 AT 450 CENTRES			
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B4	250 UB 37.3			

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