

M: 0422 051 263 E: danyacook@danyacooktownplanning.com.au ABN: 65 945 966 479 | DANYA ELIZABETH COOK

2 February 2024

Office of the Coordinator-General State Development and Infrastructre PO Box 15517 CITY EAST QLD 4002

Correspondence Sent Via Email: sdainfo@coordinatorgeneral.qld.gov.au

Attention: Planning and Services

Dear Sir / Madam,

SDA APPLICATION FOR A MATERIAL CHANGE OF USE

Property Description:	Lot 2 on RP83073
Property Address:	51 River Road, Fairymead QLD 4670
Proposed Development:	SDA Application for a Material Change of Use for a Dwelling House and Shed
Local Government:	Bundaberg Regional Council
State Development Area (SDA):	Bundaberg SDA
Planning Instrument:	Bundaberg SDA Development Scheme 2017
DC Town Planning Reference:	2024-02
On Behalf Of:	Liza Graney and Paul Jacobsen
On Behalf Of:	Liza Graney and Paul Jacobsen

1.0 PREAMBLE

Danya Cook Town Planning has been engaged by the applicants, Liza Graney and Paul Jacobsen, to prepare an application for a Material Change of Use for a Dwelling House and Shed on land described as Lot 2 on RP83073, situated at 51 River Road, Fairymead QLD 4670.

2.0 SITE OVERVIEW

Site Description

The subject site is described as Lot 2 on RP83073, situated at 51 River Road, Fairymead QLD 4670 and comprising an area of 28010m² (2.801ha).

The site features a double storey three (3) bedroom Dwelling House and Shed. It is noted that sheep and pigs are kept at the property for farming purposes.

The site is set against a peaceful rural background, as demonstrated by the Aerial Image provided at **Figure 1** below. The land features frontage to River Road, which traverse the site's southern boundary. River Road is constructed to a sealed bitumen formation and is well-linked with the wider road network.

The property is conveniently located approximately 10km from Bundaberg. A Locality Map is provided a **Figure 2** below, identifying the location of the subject site in relation to the surrounding area.





Figure 1: Aerial Image



Figure 2: Locality Map



Current Registered Landowners

The Current Registered Landowners of Lot 2 on RP83073 are Liza Graney and Paul Jacobsen.

3.0 PROPOSED DEVELOPMENT

The applicants and landowners, Liza and Paul, seek retrospective approval for a recently constructed double storey three (3) bedroom Dwelling House and detached Shed on land described as Lot 2 on RP83073, situated at 51 River Road, Fairymead QLD 4670.

The Dwelling House was constructed via owner builder in support of Liza and Paul undertaking the building project themselves. Liza and Paul were not aware that their property was included within the Bundaberg State Development Area (SDA), and did not realise that approval for a Material Change of Use for a Dwelling House and Shed was first required from the Coordinator-General, hence, the purpose of this application; to seek retrospective approval for the recently constructed structures located on-site.

In support of this application, please find attached: -

- Appendix A: Owner Builder Certificate.
- Appendix B: Design Plans, prepared by the applicants and landowners.
- Appendix C: Shed Plans, prepared by Bushman Sheds.
- Appendix D: Form 12 Aspect Inspection Certificate, supplied by Engineers Queensland.

Flood Hazard

It is acknowledged that the Flood Hazard Overlay impacts the site.

The Burnett River comprises a catchment of approximately 33,210km².

Rainfall and river levels are monitored within the catchment; hence, a Flooding Early Warning System is in place. Flood peaks occur in Bundaberg several days after rainfall in the upper catchment.

The most severe flood record for the river was in 2013 when 5000 people were evacuated and 4040 houses were directly affected in areas of Bundaberg and the surrounding area. The Fairymead area was directly affected with some residents evacuated and some staying in their homes. There was little damage to dwellings, however, damage was sustained to vehicles, machinery, fencing, crops, etc.

The Dwelling House was constructed to the required habitable floor height to ensure compliance with authority requirements.

In consideration of the above and the historic flood records for the Burnett River, it can be established that the site is not subject to unacceptable flood risk, as the land comprises less than 1% chance of flooding.

4.0 BUNDABERG STATE DEVELOPMENT AREA DEVELOPMENT SCHEME 2017

Overview

State Development Areas (SDAs) are areas declared by regulation under the State Development and Public Works Organisation Act 1971 (SDPWO Act).

The Bundaberg State Development Area (SDA) was declared in February 2017 by regulation.

Precinct Designation

The Bundaberg SDA has five (5) precinct designations.

The subject site is included within the Rural Uses Precinct, in accordance with Bundaberg State Development Area Development Precinct Map BUSDA_001_004 of the Bundaberg SDA Development Scheme 2017, an extract copy of which is provided at **Figure 3** below.



The preferred development intent for the Rural Uses Precinct is described in accordance with Part 2.4 - Bundaberg SDA Development Precincts, Section 2.4.4 Rural Uses Precinct - Preferred Development Intent of the Bundaberg SDA Development Scheme 2017, as follows:

(1) The preferred development intent for the Rural Uses Precinct is described below.

(a) This precinct will primarily accommodate the ongoing operation of productive agricultural uses and other rural activities.

(b) Development does not compromise the environmental values of the adjoining environmental management precinct.

(c) Development may be appropriate within the precinct, where impacts on flood characteristics, the viability of the agricultural land and environmental values can be managed.

(d) Sensitive uses that limit the ability to establish and operate industry within this precinct and in surrounding precincts are unlikely to be supported.

(e) The precinct may accommodate linear infrastructure of regional and State significance.

Comment

The development of a Dwelling House and Shed at the subject site does not negatively impact the preferred development intent for the Rural Uses Precinct and remains in character with adjoining and surrounding development.



Figure 3: Bundaberg State Development Area Development Precinct Map BUSDA_001_004

It is acknowledged that the Rural Uses Precinct is intended to primarily accommodate the ongoing operation of productive agricultural uses and other rural activities. As noted above, under Section 2.0 – Site Overview, sheep and pigs are kept at the property for farming purposes. Accordingly, the Dwelling House and Shed does not limit the ability of the land to operate farming activities within the Rural Uses Precinct, but rather support it.

Use Definition

In accordance with Schedule 1—Definitions, Part 2 – Development of the Bundaberg State Development Area Development Scheme 2017, a Dwelling House is defined as follows:



Dwelling House: - means a residential use of premises involving:

- (a) One (1) dwelling for a single household and any domestic outbuildings associated with the dwelling; or
- (b) One (1) dwelling for a single household, a secondary dwelling and any domestic outbuildings associated with either dwelling.

Level of Assessment

In accordance with Table 4 - Regulated Development within the Rural Uses Precinct of the Bundaberg SDA Development Scheme 2017, Material Change of Use (All Uses) within the Precinct are Assessable Development.

5.0 SUMMARY

This application has been prepared on behalf of Liza Graney and Paul Jacobsen, in support of a Material Change of Use for a Dwelling House and Shed on land described as Lot 2 on RP83073, situated at 51 River Road, Fairymead QLD 4670.

The proposal conforms with relevant planning provisions and legislation, and demonstrates compliance with the applicable planning framework.

Thus, on behalf of Liza Graney and Paul Jacobsen, it is recommended that the Coordinator-General issue approval, subject to reasonable and relevant conditions.

Kind regards,

Danya Cook B.Urb.Reg.Plan Director / Principal Town Planner

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Appendix A

Owner Builder Certificate



This is to certify that

Liza Graney

has fulfilled the requirements for

10274NAT Course in Preparation for Owner Builder Permit

gaitolula

Gregory Christodoulou, CEO

Date: 09 May 2021

Certificate ID: 510771

South Pacific Training Group Pty Ltd trading as **AUSTRALIAN OWNER BUILDER CENTRE** A.B.N 36 131 189 136 Registered Training Organisation (RTO ID 91528) PO Box 575 STRAWBERRY HILLS NSW 2012 **Ph:** 1300 730 752 **E:** info@ownerbuildercentre.com.au **W:** www.ownerbuildercentre.com.au Certificate Verification



Scan this code with a QR scanner app for verification.



Appendix B

Design Plans







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North

South















Appendix C

Shed Plans



THE ROLLER DOOR NEED TO MAKE 300MM SLOPE WITH 35MM FALL THE ON SLAB BRACKETS ARE ONLY TO BE USED FOR THE COLUMNS. ENDWALL MULLIONS ARE TO BE FIXED DOWN WITH 4/16X190 CHEMSETS THE ROLLER DOOR MULLIONS ARE TO BE FIXED DOWN WITH 2/12X100 DYNABOLTS SLAB & FOOTING HAS BEEN DESIGNED TO CLASS H1. ANY VARIANCE CONSULT ENGINEER THE INSTALLER'S RESPONSIBILITY TO VERIFY THE SOIL CAPACITY DURING THE INSTALLATION.

FOOTING SCHEDULE

FOOTING SIZES	REINFORCEMENT	DESCRIPTION
300W x 400D	3-L11 TM BTM	EDGE BEAMS
300W x 400D	3-L11 TM BTM	INTERNAL BEAMS

RAFT SLAB NOTES:

100mm THICK RAFT SLAB - SL72 REO 30MM TOP COVER 300W x 400D MIN. EDGE & INTERNAL BEAMS GRADE N25 CONCRETE. 0.2mm THICK POLYTHENE MOISTURE BARRIER

- ALL BEAMS TO BE FOUNDED A MIN. OF 100mm INTO
- MIN. BEARING CAPACITY OF 150kPa.

- CLASS "H1" SITE SOIL TEST REFERENCE TO C.M TESTING SERVICE - ROHD FOUR PTY LTD - JOB REFERENCE: BC13915 - DATE: 21 JAN 2020

TITLE RAFT SLAB PLAN FOR A SHED 12.0M x 12.0M x 5.7M

RBP CERTIFICATION: RPE	EQ 21642	DRAWING NO.	REV.
DESIGNED: AK	SCALE: AS NOTED	0.1	р
DRAWN: X. VIET	JOB NO: BSTDG 26233M	01	В
CHECKED: LK	DATE: 27 Apr 2021		





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FOUND MIN. 100mm INTO

NATURAL UNDISTURBED

CLAY MIN. BEARING

3-L11 BTM 60 COVER

CAPACITY 150kpa

THESE DRAWINGS ARE ONLY CERTIFIED FOR USE AT LOT 2 RP83073 RIVER RD, FAIRYMEAD, QLD 4670 MESH AS SPECIFIED 30mm TOP COVER

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(G))-



EDGE BEAM EB1

SCALE : NTS

NOTE: SLAB & FOOTING TO CAST INTEGRALLY **INTERNAL BEAM IB1** SCALE : NTS PROJECT:

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Paul Jacobsen

SITE ADDRESS: Lot 2 RP83073 River Rd Fairymead, QLD 4670

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NOTES:

- HOLDING DOWN BOLT CAPACITY AND MINIMUM DEPTH ACCORDING TO MANUFACTURER IN THE DRAWING.



TTLE RAFT SLAB DETAILS FOR A SHED 12.0M x 12.0M x 5.7M

RBP CERTIFICATION: RP	EQ 21642	DRAWING NO.	REV.	
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CHECKED: LK	DATE: 27 Apr 2021			









Lot 2 RP83073 River Rd Fairymead, QLD 4670

TITLE: HOLDING DOWN BOLTS DETAILS FOR A SHED 12.0M x 12.0M x 5.7M

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RBP CERTIFICATION: RP	EQ 21642	DRAWING NO.	REV.
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GENERAL

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- READ THESE NOTES IN CONJUNCTION WITH ARCHITECTURAL AND OTHER ENGINEERING DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED. REFER TO ARCHITECTURAL DRAWINGS FOR SETTING OUT AND DETAIL DIMENSIONS. IN CASE OF DISCREPANCY, PRECEDENCE IS GIVEN TO DRAWINGS, THEN NOTES. THEN SPECIFICATION.
- THEY SPECIFICATION: REFER DISCREPANCIES TO SUPERINTENDENT BEFORE PROCEEDING WITH WORK CHECK STRUCTURAL DRAWINGS AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL SERVICES AND OTHER DRAWINGS FOR REQUIREMENTS FOR PENETRATIONS, CONDUITS, DUCTS, PIPES, etc.
- NOMINATION OF PROPRIETARY ITEMS DOES NOT INDICATE EXCLUSIVE PREFERENCE BUT INDICATES REQUIRED PROPERTIES OF ITEM. SIMILAR ALTERNATIVES HAVING REQUIRED PROPERTIES MAY BE OFFERED FOR APPROVAL. INSTALL PROPRIETARY ITEMS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. G4 OBTAIN NECESSARY PERMITS AND APPROVALS FROM RELEVANT AUTHORITIES BEFORE COMMENCING WORK ON SITE G5.
- ONTERVIEW DATE SERVICE AUTHORITIES BEFORE COMMENDIATION ON STE. GIVE TWO WORKING DAYS' (48 HOURS) NOTICE SO THAT INSPECTION MAY BE MADE OF CRITICAL STAGES OF WORK
- DO NOT OBTAIN DIMENSIONS BY SCALING FROM DRAWINGS.
- DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNO. CHAINAGES ARE IN METRES UNO.
- DATUM FOR LEVELS IS AHD. HAVE SURVEY AND SETTING OUT UNDERTAKEN BY A REGISTERED SURVEYOR.
- G12 VERIFY ON SITE SETTING OUT DIMENSIONS AND EXISTING MEMBER SIZES SHOWN ON DRAWINGS BEFORE SHOP DRAWINGS, CONSTRUCTION AND FABRICATION IS COMMENCED.
- TAKE PRECAUTIONS TO ESTABLISH LOCATION OF AND PROTECT EXISTING SERVICES AT SITE. SERVICES SHOWN ON DRAWINGS ARE IN APPROXIMATE LOCATIONS ONLY. SERVICES OTHER THAN THOSE SHOWN MAY EXIST ON SITE. HAND G13. EXCAVATE WITHIN ONE METRE OF IN-GROUND SERVICES. G14
- EXCRATE WITH OTE METRIC OF INSTOLING SUPPORTS OF SAA CODES, BUILDING CODE OF AUSTRALIA AND WORKHANSHIP AND MATERIALS TO COMPLY WITH REQUIREMENTS OF SAA CODES, BUILDING CODE OF AUSTRALIA AND BY-LAWS AND ORDINANCES OF RELEVANT BUILDING AUTHORITIES. ALL CODES REFERRED TO ARE THOSE CURRENT (AS AMENDED) AT COMMENCEMENT OF CONTRACT. ALL STRUCTURES TO HAVE A DESIGN WORKING LIFE OF 50 YEARS.
- MAINTAIN STRUCTURE IN A STABLE CONDITION DURING CONSTRUCTION AND PROVIDE TEMPORARY BRACING AND/OR SUPPORT AS REQUIRED. ENSURE NO PART IS OVERSTRESSED. DO NOT PLACE OR STORE BUILDING MATERIALS ON STRUCTURAL MEMBERS WITHOUT SUPERINTENDENT'S APPROVAL.
- G17. THESE DRAWINGS DO NOT DETAIL TEMPORARY WORKS. CONSTRUCTION METHODS AND TEMPORARY WORKS ARE
- RESPONSIBILITY OF THE CONTRACTOR. DISPOSE OF SURPLUS MATERIAL OFF SITE.
- IMPLEMENT SOIL AND WATER MANAGEMENT PROCEDURES TO AVOID EROSION, CONTAMINATION AND SEDIMENTATION OF G19. SITE, SURROUNDING AREAS AND DRAINAGE SYSTEMS.
- OF DOINTO BUILD AND A DUINING ELEMENTS TO BE FIXED TO OR SUPPORTED ON WORK AND PROVIDE FOR REQUIRED FIXINGS. PROVIDE FOR TEMPORARY SUPPORT OF ADJOINING ELEMENTS DURING CONSTRUCTION. MAKE GOOD G20. ANY DAMAGE TO EXISTING ELEMENTS AT COMPLETION OF WORKS.
- WHERE NEW WORK ABUTS EXISTING, PROVIDE A SMOOTH TRANSITION FREE OF ABRUPT CHANGES HAVE TESTING PERFORMED BY AN INDEPENDENT NATA (NATIONAL ASSOCIATION OF TESTING AUTHORITIES) ACCREDITED AUTHORITY, AND PROVIDE TEST REPORTS TO SUPERINTENDENT.
- G23. SEPARATE METALS FROM INCOMPATIBLE MATERIALS (eg GALVANIZED AND UNGALVANIZED STEEL, TREATED TIMBER AND
- STEEL etc.) BY CONCEALED LAYERS OF SUITABLE INERT MATERIALS OF SUITABLE THICKNESSES. USE PLASTIC SLEEVES AND WASHERS FOR BOLTS, etc. 624. STRUCTURAL WORK HAS BEEN DESIGNED FOR FOLLOWING LOADS:

- PERMANENT DEAD COAD OF STRUCTURE AS SHOWIN ON DRAWINGS	
- LIVE LOADS TO AS1170.1:	
- SERVICES LOAD (Roof):	0.25 kPa
- SLAB FLOOR	5KPa
- BUILDING DESIGN WORKING LIFE	50 years
- WIND LOADS TO AS1170.2:	
- REGION	С
- AVERAGE RECURRENCE INTERVAL	500 years
- TERRAIN CATEGORY	2
- DESIGN BUILDING HEIGHT AS PER BUILDING ELEVATION,	6.23m max
- TERRAIN/HEIGHT MULTIPLIER (Mz,cat)	0.95
- SHIELDING MULTIPLIER (Ms)	1.0
- TOPOGRAPHIC MULTIPLIER (Mt)	1.0
- REGIONAL WIND SPEED VR (3 sec GUST)	69 m/s
- DIRECTIONAL MULTIPLIER	1.0
- DESIGN WIND SPEED Vdes,	69.19 m/s
- INTERNAL PRESSURE COEFICIENT (Cpi)	+0.7, -0.65

- G25. SUPPLY RELEVANT SECTIONS OF NOTES TO SUB-CONTRACTORS.
- "UNO" DENOTES UNLESS NOTED OTHERWISE. G26. G27 BUILD. FABRICATE AND PROCURE ONLY FROM DRAWINGS 'ISSUED FOR CONSTRUCTION'.
- KEEP ON SITE A COMPLETE SET OF CONTRACT DOCUMENTS (INCLUDING DRAWINGS AND SPECIFICATIONS) AND SITE INSTRUCTIONS. G28.

STRUCTURAL STEEL

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27 Apr 21

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DATE

- ALL STRUCTURAL STEEL FRAMING SHALL BE MANUFACTURED FROM BHP HI-TELSILE STEEL (G450) CONFORMING TO AS1397. S1 UNLESS NOTED OTHERWISE (UNO S2. ALL BOLTS SHALL BE M16 8.8 GRADE & TEK SCREWS SHALL BE 12-10X20 (UNO), IN ACCORDANCE WITH AS/NZS 1111 & AS/NZS
- KNEE & APEX BRACKETS SHALL BE THE SAME GRADE AND THICKNESS OF FRAME SECTIONS AS A MINIMUM S3.
- BASE CONNECTION BRACKET TO BE 3MM G450 OR 5MM G300 (UNO).

FOUNDATIONS/SLABS ON GROUND

- SLAB AND FOOTING HAS BEEN DESIGNED UP TO A CLASS M TO AS2870. ANY VARIANCE CONSULT ENGINEER
- REFER TO GEOTECHNICAL REPORT IF SUPPLIED E3 FOOTINGS HAVE BEEN DESIGNED FOR A SAFE WORKING BEARING PRESSURE OF 150kPa 200 mm IN UNDISTURBED NATURAL STIFF CLAYS FOR STRIP AND PAD FOOTINGS. STRIP FOOTINGS TO BE FOUNDED 1.0m MINIMUM AND PAD FOOTINGS 1.5m MINIMUM (UNO). REMOVE MATERIAL THAT DOES NOT ACHIEVE THESE PRESSURES. OBTAIN APPROVAL OF FOUNDATION MATERIAL FOR THESE PRESSURES FROM SUPERINTENDENT/BUILDING AUTHORITY.
- F4 SLAB PANELS TO BE FOUNDED ON UNDISTURBED NATURAL SOIL WITH ALLOWARD F REARING CAPACITY OF NOT LESS. THAN GRAD PARELS TO BUILDED OF GADDED OF GADDED OF GADDED OF A GAD AND A COMPACT AND A COMP BUILDING.
- F5. "CONTROLLED FILL" IS: SAND FILL UP TO 800 mm DEEP. WELL COMPACTED IN LAYERS <300 mm THICK BY VIBRATING PLATE OR VIBRATING ROLLER, CALAY FILL TO BE MOIST DURING COMPACTION, OR OTHER MATERIAL PLACED AND COMPACTED IN MECHANICAL ROLLER, CICAY FILL TO BE MOIST DURING COMPACTION, OR OTHER MATERIAL PLACED AND COMPACTED IN ACCORDANCE WITH SPECIFICATION.
- TOLLED FILL'IS: SAND FILL UP TO 600 mm DEEP COMPACTED IN LAYERS < 300 mm THICK, OR NON-SAND FILL UP TO 300mm DEEP COMPACTED IN LAYERS < 150 mm THICK. E6 F7. REMOVE TOP SOIL CONTAINING GRASS ROOTS OR OTHER ORGANIC MATTER. RUBBLE AND / OR DEBRIS AND OTHER
- UNSUITABLE MATERIAL BELOW FOUNDATIONS.

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- ICOATE FOUNDS CENTRALLY UNDER WALLS AND COLUMNS UNO. FOUNDATION LEVELS SHOWN ARE CONTRACT LEVELS. FINAL LEVELS TO BE AS DIRECTED BY SUPERINTENDENT.
- F10. BACKFILL OVER EXCAVATION WITH GRADE N7 BLINDING CONCRETE.
- KEEP EXCAVATIONS FREE OF WATER. PROVIDE ADEQUATE DRAINAGE TO ENSURE FORMATION IS NOT AFFECTED BY MOISTURE. PREVENT FOUNDATION DRYING OUT DUE TO EXPOSURE. CONSTRUCT FOOTINGS AND BACKFILL AS SOON AS F11.
- PRACTICABLE AFTER EXCAVATION. ENSURE EXCAVATIONS ARE STABLE AND PROTECT SURROUNDING PROPERTY AND SERVICES FROM ADVERSE EFFECTS F12.
- OF GROUND WORKS. PROVIDE TEMPORARY WORKS AS REQUIRED. USE SUITABLE CONSTRUCTION TECHNIQUES AND EQUIPMENT FOR BACKFILLING ADJACENT TO STRUCTURES TO PREVENT OVERSTRESS AND DAMAGE. BACKFILL EVENLY TO AVOID DIFFERENTIAL SOIL PRESSURES ON STRUCTURES F13. BACKFILL AGAINST RETAINING WALLS ONLY AFTER SPECIFIED CONCRETE STRE NATURAL MATERIAL ON SITE. BACKFILL
- TOP 300 mm OF TRENCHES WITH HAND COMPACTED CLAY WITHIN 1500 mm OF BUILDING. FOR 300 million in Carbon and the Common Common Control Control Control and the Control Control Control of Control Con F15.

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DESCRIPTION

PENETRATIONS, etc. TO ENSURE A COMPLETE VAPOUR BARRIER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS2870. PREVENT PUNCTURING OR DAMAGE BY PLACING A PLASTIC PLATE UNDER REINFORCEMENT SUPPORTS.

- TOP OF CONCRETE SLAB TO BE AT LEAST 150 mm ABOVE ADJACENT GROUND LEVELS. GROUND SURROUNDING BUILDING TO BE SLOPED SO THAT WATER WILL DRAIN AWAY FROM BUILDING TO SUITABLE DISCHARGE POINTS. WHERE ACHIEVED
- SUCCESSION OF SUCCESSION AND A SUCCESSIO F17. CLOSED-CELL POLYETHYLENE LAGGING.
- FOR SITES CLASSIFIED M OR GREATER REACTIVITY WHERE SERVICES PASS UNDER FOOTINGS BACKEILL TRENCHES WITH F18. HAND COMPACTED CLAY OR BUILDING CONCRETE FOR 1000 mm EACH SIDE OF FOOTING AGAINST CLEAN, DRY, UNDISTURBED NATURAL MATERIAL. PROVIDE FLEXIBLE JOINTS IN STORMWATER AND WASTEWATER SERVICES AT EXTERIOR OF BUILDING.
- FOLLOWING CONSTRUCTION FOUNDATION MAINTENANCE TO BE IN ACCORDANCE WITH CSIRO BUILDING TECHNOLOGY FILE 18 "FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE: A HOMEOWNER'S GUIDE" AND RECOMMENDATION PROVIDED BY SFM SOIL REPORT

CONCRETE

- WORKMANSHIP AND MATERIALS TO COMPLY WITH AS3600, AS2870, AS3610, AS1379, AS1478, AS3582, AS5100 AND AS3972 FOR LIQUID RETAINING STRUCTURES ALSO COMPLY WITH AS335. WET CONCRETE TO BE UNIFORM, HOMOGENEOUS, COHESIVE AND ABLE TO WORK READILY INTO CORNERS AND
- AROUND REINFORCEMENT COMPLETELY FILLING THE FORMWORK WITHOUT SEGREGATION, EXCESS FREE WATER ON SURFACE LOSS OF MATERIAL OR CONTAMINATION. CONCRETE TO HAVE GOOD DIMENSIONAL STABILITY AND ABLE TO
- RESIST PLASTIC SETTLEMENT CRACKING, THERMAL CRACKING AND SHRINKAGE CRACKING. QUALITY OF CONCRETE ELEMENTS TO BE AS FOLLOWS: C3.

STRUCTURAL ELEMENT	BLINDING	FOOTINGS	SLABS
EXPOSURE CLASSIFICATION	B1	B1	A1
STRENGTH GRADE (MPa)	N7	N25	N25
TRANSFER STRENGTH tcp (MPa)		-	
MINIMUM DENSITY (kg/m3):	•	2350	2300
MAX. AGGREGATE SIZE (mm):	-	10, 14 OR 20	20
MAXIMUM ADIABATIC TEMPERATURE RISE AT 100 HOURS		45°C	45°C
CEMENT TYPE:	GB	GB	GB
MINIMUM CEMENTITIOUS CONTENT (kg/m3):	100	330	330
MAXIMUM CEMENTITIOUS CONTENT (kg/m3):		360	360
SUPPLEMENTARY CEMENTITIOUS MATERIAL	CEMENT CONTENT	MINIMUM 10% OF CEMENT CONTENT	MINIMUM 10% OF
MAXIMUM WATER/CEMENTITIOUS RATIO		0.45	0.45
MAX. 56 DAY DRYING SHRINKAGE		600 x 10-3	600x10-3
REQUIRED ADDITIVES		APPROVAL REQUIRED	APPROVAL REQUIRED

C4. SUPPLEMENTARY CEMENTITIOUS MATERIALS INCLUDE SILICA FUME, FLY ASH, AND GROUND GRANULATED BLAST

- C5.
- FURNACE SLAG (GGBFS OR SLAG). SLUMP TO BE AS REQUIRED FOR PLACEMENT (eg PUMPING, etc), COMPACTION AND FINISHING. USE SUPERPLASTICIZERS AND HIGH RANGE WATER REDUCERS TO AS1478 TO ACHIEVE ADEQUATE WORKABILITY. C6 MAXIMUM SULPHATE CONTENT OF CONCRETE TO BE LESS THAN 5% BY MASS OF ACID SOLUBLE SO3 TO CEMENTITIOUS
- USE CEMENTITIOUS MATERIALS LESS THAN SIX MONTHS OLD. USE BAGGED CEMENT IN ORDER OF RECEIPT
- FOR BLENDED CEMENT CONTAINING ORDINARY PORTLAND CEMENT PLUS AT LEAST 5%
 - SUPPLEMENTARY CEMENTITIOUS MATERIALS:
 - SILICA FUME TO BE LESS THAN 10%, OR FLYASH TO BE LESS THAN 25%, OR

GROUND GRANULATED BLAST FURNACE SLAG TO BE LESS THAN 40%. FOR DOUBLE BLENDED CEMENT TOTAL SUPPLEMENTARY CEMENTITIOUS MATERIAL MUST BE LESS THAN SMALLER OF PERCENTAGES GIVEN ABOVE FOR CONSTITUENTS INCLUDED. FOR TRIPLE BLENDED CEMENT TOTAL SUPPLEMENTARY CEMENTITIOUS MATERIAL MUST BE LESS THAN 40%.

- CEMENTITIOUS MATERIAL MUST BELOST FRANKULARS MUST NOTREDUCE STRENGTH OF CONCRETE BELOW SPECIFIED ADMIXTURES TO CONFERSIVE WITH MATERA. BANKTURES MUST NOTREDUCE STRENGTH OF CONCRETE BELOW SPECIFIED VALUE. USE DADIXTURES IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS, CONCRETE ADDITINES SMALL NOT ENHANCE CORROSION OF REINFORCEMENT, NOR BE DETINIENTAL OCONCRETE OR STEEL DURINE EXPECTED LIFE OF STRUCTURE. DO NOT USE CHEMICAL ADMIXTURES OR OTHER MATERIALS WITHOUT SUPERINTENDENTS C9 WRITTEN APPROVAL
- WRITTEN APPROVAL DO NOT USE CALCIUM CHLORIDE MAXIMUM ACID SOLUDE CHLORIDE ION CONTENT OF CONCRETE TO BE LESS THAN 0.15% BY MASS OF CEMENTITIOUS MATERIAL. DO NOT USE STRONGLY IONIZED SALTS.
- C11. CONCRETE DENOTED WITH STRENGTH GRADE PREFIX S, SUCH AS \$40, IS REQUIRED TO HAVE HIGH DURABILITY. PROVIDE CONCRETE WITH
 - AN AVERAGE COMPRESSIVE STRENGTH AT COMPLETION OF CURING NOT LESS THAN 5% OF SPECIFIED fc. COARSE AGGREGATES THAT COMPLY WITH VicRoads MAJOR WORKS SPECIFICATION. A TOTAL REACTIVE ALKALI CONTENT NOT GREATER THAN 3.0 kg/m3 Na2 (EQUIVALENT)
- CONCRETE DENOTED WITH STRENGTH GRADE PREFIX S, SUCH AS \$40, IS REQUIRED TO HAVE HIGH DURABILITY. DO NOT USE METAL INSERTS WITHIN COVER CONCRETE INCLUDING METAL BAR CHAIRS. DO NOT ALLOW CONCRETE TO FALL VERTICALLY WHEN PLACING, OR TO ENTRAP AIR IN ANY OTHER WAY. PLACE CONCRETE IN LAYERS LESS THAN 300 mm C12. THICK AND VIBRATE FACH LAYER BEFORE PLACING NEXT, PREVENT EVAPORATION OF WATER FROM CONCRETE
- SUBRACES IMMEDIATELY AFTER LAVING, MOIST CURE CONCEPTE FOR A MINIMUM OF SEVEN DAYS. SUBMIT DETAILS OF PROPOSED READY MIXED CONCRETE SUPPLIER, LOCATION OF BATCHING PLANT, CONCRETE MIX C13. DESIGNS, METHOD OF CONCRETE TEMPERATURE CONTROL, MIXING, HANDLING, TRANSPORT, PUMPING, PLACEMENT, COMPACTION, FINISHING, PROTECTION AND CURING, SEQ
- PROVIDE DOCUMENTARY EVIDENCE OF PREVIOUS PERFORMANCE AND RELEVANT TEST RESULTS OF MIX DESIGN TARGETS, INCLUDING 3, 7 AND 28 DAY COMPRESSIVE STRENGTHS, CHARACTERISTIC STRENGTH, TEMPERATURE RISE, DRYING SHRINKAGE, LIMITS OF SOLUBLE SALTS AND ALKALI AGGREGATE REACTIVITY etc., BEING CERTIFIED TEST PRESULTS MADE ON AT LEAST TWO SEPARATE SAMPLES FROM A NATA REGISTERED LABORATORY EITHER: - ON CONCRETE OF SAME MIX DESIGN (IN RESPECT OF ALL DETAILS TO BE NOMINATED ABOVE) OF SIMILAR GRADE MADE UNDER PRODUCTION CONDITIONS IN SIMILAR PLANT WITHIN LAST SIX MONTHS, OR
- ON PRELIMINARY TESTS FROM LABORATORY OR PLANT TRIALS OF PROPOSED MIX. USE READY MIXED CONCRETE MIXED BY BATCH PRODUCTION PROCESS DELIVERED IN AGITATING TRUCKS. FOR EACH
- C15. BATCH SUPPLY A DOCKET LISTING INFORMATION REQUIRED BY ASI379 CLAUSE 1.8.3 AND FOLLOWING - SERIAL NUMBER OF IDENTIFICATION CERTIFICATES OF EACH BATCH NAME OF CONCRETE DELIVERY SUPERVISOR
 - ELEMENT FOR WHICH CONCRETE WAS ORDERED AND WHERE IT WAS PLACED METHOD OF PLACEMENT AND CLIMATIC CONDITIONS DURING POUR PROJECT ASSESSMENT CARRIED OUT

 - TOTAL AMOUNT OF WATER REQUIRED BY MIX DESIGN
 - TOTAL AMOUNT OF WATER ADDED AT PLANT DO NOT ADD WATER TO CONCRETE AFTER TRUCK HAS LEFT BATCHING PLANT
- MIX CONCRETE TO ENSURE UNIFORM DISTRIBUTION OF CONSTITUENTS.
- TEST SLUMP OF EACH BATCH OF CONCRETE DELIVERED. PROVIDE RECORD OF SLUMP TESTING TO SUPERINTENDENT. SLUMP MEASURED TO BE NO GREATER THAN TARGET SLUMP WITHIN TOLERANCES GIVEN IN AS1379 CLAUSE 5.2.3. CONCRETE TESTING TO BE CARRIED OUT BY AN APPROVED INDEPENDENT NATA REGISTERED LABORATORY. C20.
- C25 RESPONSIBILITY FOR DESIGN, CERTIFICATION, CONSTRUCTION AND PER OF FORMWORK (EXCEPT WHERE CONCRETE IS TO RECEIVE AN APPLIED FINISH FOR WHICH THERE IS NO COMPATIBLE RELEASE AGENT. WHERE NECESSARY CLEAN REINFORCEMENT TO REMOVE TRACES OF RELEASE AGENT. SEAL JOINTS BETWEEN FORMWORK PANELS, AND TO HARDENED CONCRETE WITH A FLEXIBLE RUBBER STRIP. SET OUT FORMWORK TO GIVE A REGULAR ARRANGEMENT OF
- PANELS, JOINTS, BOLT HOLES etc. FORMWORK TO BE DESIGNED AND CERTIFIED BY A REGISTERED ENGINEER
- DO NOT SUPPORT FORMWORK ON PERMANENT WORKS WITHOUT SUPERINTENDENT'S WRITTEN APPROVAL

- CONSTRUCT FORMWORK TO COMPLY WITH AS3610 AND CLAUSE 19.6.2 OF AS3600 WHERE THIS IS MORE STRINGENT SO CONCRETE WILL HAVE DIMENSIONS, SHAPE, LOCATION AND FINISH SPECIFIED. PROVIDE OPENINGS OR REMOVABLE PANELS FOR INSPECTION AND CLEANING. APPLY RELEASE AGENT COMPATIBLE WITH CONTACT SURFACES TO INTERIOR
- DO NOT USE FORMWORK HARDWARE THAT FORMS A COMPLETE HOLE THROUGH CONCRETE ELEMENTS, FORMANCE OF C29 PORVIOR LIES WITH CONTRACTOR. PROVIDE HOLES IN REBATE FORMERS, etc. AS REQUIRED TO PREVENT AIR ENTRAPMENT.
- CONSTRUCTION TOLERANCES TO BE TO AS3610.
- C32.
- REMOVE FREE WATER, DUST AND DEBRIS, STAINS etc. FROM FORMS, EXCAVATIONS etc. BEFORE PLACING CONCRETE. IN HOT CONDITIONS DAMPEN FORMWORK AND/OR SUB-GRADE BEFORE PLACING CONCRETE. ELAPSED TIME BETWEEN WETTING OF MIX AND DISCHARGE OF CONCRETE AT SITE MUST BE AS SHORT AS POSSIBLE, AND C33.
- COMPLY WITH THE FOLLOWING. USE PLACEMENT METHODS THAT WILL MINIMISE PLASTIC SETTLEMENT AND SHRINKAGE CRACKING. LIMIT VERTICAL FREE FALL BY USE OF CHUTES, etc. KEEP CHUTES VERTICAL, FULL AND IMMERSED IN PLACED CONCRETE. PLACE CONCRETE IN LAYERS AND BLEND SUCCEEDING LAYERS BY COMPACTION. MAINTAIN CONCRETE EDGE IN A PLASTIC STATE. PROPERLY C34. COMPACT CONCRETE USING MECHANICAL VIBRATORS (AND HAND METHODS IF REQUIRED) TO REMOVE AIR BUBBLES AND GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION OF CONCRETE. TAKE CARE TO AVOID CONTACT BETWEEN VIBRATORS AND PARTIALLY HARDENED CONCRETE, FORMWORK OR REINFORCEMENT. DO NOT USE VIBRATORS TO MOVE
- CONCRETE ALONG FORMS. C35. OBTAIN SUPERINTENDENT'S WRITTEN APPROVAL OF PLACEMENT METHODS FOR CONCRETE ELEMENTS GREATER THAM 500 mm HEIGHT
- KEEP ON SITE A LOG BOOK RECORDING EACH PLACEMENT OF CONCRETE INCLUDING DATE. CLIMATIC CONDITIONS C36. PORTION OF WORK, SPECIFIED GRADE AND SOURCE OF CONCRETE, DELIVERY DOCKET DATA, METHODS OF PLACEMENT AND COMPACTION. PROJECT ASSESSMENT CARRIED OUT. SLUMP MEASUREMENTS, VOLUME AND OTHER NOTABLE
- IN COLD WEATHER MAINTAIN TEMPERATURE OF FRESHLY MIXED CONCRETE WITHIN LIMITS SHOWN BELOW. "OUTDOOR AIR TEMPERATURE IS AIR TEMPERATURE AT TIME OF MIXING. OR PREDICTED OR LIKELY AIR TEMPERATURE DURING NEXT AIR TEMPERATURE IS AND TEMPERATURE AT TIME OF TIMINARY, OF REDUCTED OF LIGET AIR TEMPERATURE UDATION REAL 48 HOURS. BEFORE AND WHILE PLACING CONCRETE MAINTAIN TEMPERATURE OF FORMINORK AND REINFORCEMENT AT 5C. DO NOT USE CALCIUM CHLORIDE, SALTS, CHEMICALS OR OTHER MATERIAL IN MIX TO LOWER THE FREEZING POINT OF CONCRETE. DO NOT ALLOW FROZEN MATERIALS TO ENTER MIXER. KEEP FORMS, MATERIALS, EQUIPMENT IN CONTACT WITH CONCRETE FREE OF FROST AND ICE. HEAT CONCRETE MATERIALS (OTHER THAN CEMENT) TO MINIMUM TEMPERATURE NECESSARY TO ENSURE TEMPERATURE OF PLACED CONCRETE IS WITHIN LIMITS SPECIFIED. MAXIMUM WATER TEMPERATURE: 60C WHEN PLACED IN MIXER
- C38 IN HOT WEATHER PREVENT PREMATURE STIFFENING OF FRESH CONCRETE: REDUCE WATER ABSORPTION AND EVAPORATION LOSSES. MIX, TRANSPORT, PLACE AND COMPACT CONCRETE AS QUICKLY AS POSSIBLE. DURING PLACEMENT TEMPERATURE OF CONCRETE MUST NOT EXCEED TEMPERATURES BELOW.

CONCRETE ELEMENT	TEMPERATURE LIMIT
NORMAL CONCRETE IN FOOTINGS, BEAMS, COLUMNS, WALLS AND SLABS fC 32MPa	35C
MASS CONCRETE SECTIONS 1 m EACH DIMENSION,	
OR CONCRETE C 40 MPa IN SECTIONS 600 mm	27C

CONDITIONS, EXCESSIVELY HOT OR COLD TEMPERATURES, RAIN, ETC. PROVIDE WIND BREAKS. MAINTAIN CONCRETE AT

ACCOUNTER WITH WATER-CENENT RATIO USES THAN 0.5, IN HOT WINDY OR DRY (LOW HUMIDITY) CONDITIONS SPRA' EXPOSED SURFACES OF FRESH CONCRETE WITH FOG SPRAY APPLICATION OF ALIPHATIC ALCOHOL RETARDANT

IMMEDIATELY AFTER PLACEMENT TO REDUCE RISK OF PLASTIC SHRINKAGE CRACKING. IN SEVERE CLIMATIC CONDITIONS

IMMEDIATELY AFTER PLACEMENT TO REDUCE NEW OF PLASTIC SHRINKAGE CRACKING. IN SEVERE CLIMATIC CC CONSIDER REVIDENTING CONCRETE BEFORE IT REACHES INITIAL SET. COMMENCE CURING OF CONCRETE TO AS3600 AS SOON AS POSSIBLE AFTER PLACING AND FINISHING OR STRIPI EVENTE FUPOSED SUPPACES ARE NOT STAINED ACCEPTABLE ME HODS OF CURING INCLUDE: RETENTION OF FORM ORK - PONDING OR CONTINUOUS SPRINKLING WITH WATER (MOIST CURING)

- POINTING OF CONTINUOUS SPAINTLING WITH WATER (MUSIC CONTING) - AN IMPERINGABLE MEMBRANE (USE WHITE OR LIGHT COLOUPED PLASTIC IN HOT CONDITIONS). - SEAL-AROUND EDCES - AN ABSORPTIVE COVER KEPT CONTINUOUSLY WET

A CARCINE CONTINUOUSLY UNTIL NUMBER OF DAYS DURING WHICH AIR TEMPERATURE IS ABOVE 10°C TOTALS:
3 DAYS FOR EXPOSURES CLASSIFICATION B1, B2 AND C.

DO NOT STREP FORWING READER TO A DO BOOKS AFFLOXEMENT. STREP FORWINGK TO ASSIOD CLAUSE 19.6. REMOVE FORM THE BOLTS WITHOUT DAMAGING CONCRETE. PARTS OF BOLTS LEFT IN CONCRETE MUST NOT INTRUDE INTO COVE CONCRETE. FLUSH FILL HOLES USING PRE-MIXED NON-SHRINK CEMENTITIOUS MORTAR MATCHING CONCRETE SURFACE COLOUR, STRENGTH AND DURABILITY.

EAR OBD Sold ALCS STELL INOTING HIDDLE NOT HIDDLE NOVER TROWELS TO PRODUCE SMOOTH SURFACES FREE OF STELL TROWNEL FINISH. AFTER MACHINE FLOATING, USE POWER TROWELS TO PRODUCE SMOOTH SURFACES FREE OF DEFECTS. WHEN SURFACE HAS HARDENED SUFFICIENTLY, USE STEEL HAND TROWELS TO PRODUCE FINAL CONSOLIDATED FINISH FREE OF TROWEL MARKS AND UNIFORM IN TEXTURE AND APPEARANCE, SO MAXIMUM DEVIATION

BEAM SIZES ARE DESIGNATED DEPTH (INCLUDING SLAB, IF ANY) X WIDTH. PLACE CONCRETE IN SLABS AT SAME TIME AS BEAMS INTEGRAL WITH THEM. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.

PROVIDE EXPOSED EDGES AND RE-ENTRANT CORNERS WITH 45 DEGREES x 25 mm CHAMFERS OR FILLETS UNO

FRONDE AND THE OF TREAMBER OF TREAMBER OF THE STREAM OF THE APPROVED BY SUPERINTENDENT. CONSTRUCTION JOINTS AND USE ONLY WHERE SHOWN OR WHERE APPROVED BY SUPERINTENDENT.

INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF NOT LESS THAN 5 mm WITH AGGREGATE EXPOSED. PRIME INTERTIONALLY ROUGHENED TO A POLICAMENTATION OF NOT LESS TRAVISATION WITH ADDREAM E EXPOSED FRIME EXISTING CONCETE WITH MASTER BUILDERS' CONCRESTLY S257 (IN ACCORDANCE WITH MAUFFACTURERS' RECOMMENDATIONS) AND PLACE ADJACENT FRESH CONCRETE WITHIN 30 MINUTES OF PRIMING. DAMPEN EXISTING CONCRETE PRIOR TO PLACING ADJACENT FRESH CONCRETE. COAT EXISTING CONCRETE WITH NEAT CEMENT SLURRY

PROVIDE PROPOSED LOCATIONS AND DETAILS OF CONSTRUCTION JOINTS FOR SUPERINTENDENT'S APPROVAL PRIOR TO

SAN OF ORGEN AND WITHIN 04 HOURS OF CASTING TO PREVENT THERMAL AND/OR SHRUNDES CRACKING OF SLAB. IMMEDIATELY AFTER SAW CUTTING FLUSH OUT JOINTS TO REMOVE SAWING RESIDUE AND INSERT A TEMPORARY FOAMED PLASTIC BEAD TO KEEP JOINT CLEAN PRIOR TO FILLING OR SEALING. PROTECT SAW CUTS FROM WHEEL LOADS FOR AT

INSTALL WATERSTOPS ONTO SMOOTH CONCRETE SURFACE. DO NOT SCABBLE CONCRETE BENEATH WATERSTOPS

Paul Jacobsen

Lot 2 RP83073 River Rd

Fairymead, QLD 4670

SAW CUT CRACK CONTROL JOINTS AS SOON AFTER CASTING AS PRACTICABLE TO AVOID SPALLING OR RAVELLING OF

DO NOT MIX CONCRETE WHEN SURROUNDING OUTDOOR SHADE TEMPERATURE 380

- MAINTAIN TEMPERATURE OF FORMWORK AND REINFORCEMENT AT 32C BEFORE AND DURING PLACING. MAINTAIN SPECIFIED TEMPERATURE OF PLACED CONCRETE BY: - COOL CONCRETE USING LIQUID NITROGEN INJECTION BEFORE PLACING, OF

A REASONABLY CONSTANT TEMPERATI IRE WITH MINIMUM MOISTURE LOSS FOR CURING PERIOD

- CERTIFIED TEST RESULTS FOR WATER RETENTION TO AS3799 APPENDIX B

EVIDENCE THAT AN ACCEPTABLE FINAL SURFACE COLOUR WILL BE OBTAINED EVIDENCE OF COMPATIBILITY WITH CONCRETE AND APPLIED FINISHES (IF ANY)

- METHODS OF OBTAINING REQUIRED ADHESION FOR TOPPINGS, RENDER ETC.

- COVER CONTAINER IN WHICH CONCRETE IS TRANSPORTED TO FORMS, OR SPRAY COARSE AGGREGATE USING COLD WATER, OR
- USE CHILLED MIXING WATER. PROTECT FRESH CONCRETE FROM PREMATURE DRYING PARTICULARLY IN HOT, WINDY OR DRY (LOW HUMIDITY

AN APPROVED CURING COMPOUND. PROVIDE:

DO NOT STRIP FORMWORK PRIOR TO 36 HOURS AFTER PLACEMENT

FINISH CONCRETE SURFACES TO AS3610 AND AS SHOWN BELOW:

PROVIDE AN LIPWARDS PRECAMBER AS SHOWN ON DRAWINGS.

FROM 3 m STRAIGHT EDGE IS LESS THAN 3 mm.

PRIOR TO PLACING ADJACENT FRESH CONCRETE.

LEAST ONE WEEK AFTER CUTTING.

EXPOSED SURFACES 1C, 2C, 3C 0R 4 REFER TO ARCHITECT HIDDEN SURFACES 5

EXPOSED SURFACES STEEL TROWEL UNO HIDDEN SURFACES WOOD FLOAT

PROJECT

SITE ADDRESS:

STEAM CURING

a) FORMED SURFACES:

b) FINISHES AS LAID:

C44.

C47.

C48.

C49

C50.

C51.

C53.

- EFFICIENCY INDEX

DO NOT INSTALL SEALANTS IF EXPECTED MAXIMUM DAILY TEMPERATURE EXCEEDS 30 DEGREES C. ENSURE RECESSES ARE CLEAN AND DRY PRIOR TO INSTALLING FILLERS OR SEALANTS, AND PREPARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. TOLERANCE ON SEALANT WIDTHS +5 -0 mm.

COVER MUST NOT BE LESS THAN SPECIFIED. PROVIDE MINIMUM CLEAR COVER TO REINFORCEMENT AS SHOWN BELOW EXCEPT WHERE SPECIFIED OTHERWISE

LOCATION	COVER (mm)
FOOTINGS, UNDERSIDE SLABS ON GROUND, etc. CAST AGAINST THE GROUND	75
SLABS - EXTERIOR	50
SLABS - INTERIOR	40
TOP OF SLAB - INTERIOR	30
ELSEWHERE	50

COVER GIVEN IS ONLY FOR CONCRETE CAST AGAINST FORMWORK OR CONCRETE BLINDING UNO. REQUEST REQUIRED COVER DIMENSION FROM SUPERINTENDENT WHERE CONCRETE IS CAST AGAINST GROUND OR A FLEXIBLE MEMBRANE. CONCRETE THICKNESSES MAY BE INCREASED.

CONCRETE I FINCANESSES MAY BE INCREASED. DO NOT MAKE HOLES, CHASES, NOR EMBED PIPES (OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS) WITHOUT APPROVAL OF SUPERINTENDENT. DO NOT PLACE CONDUITS, PIPES etc. WITHIN COVER CONCRETE. LOCATE CONDUITS, PIPES etc. ONLY IN MIDDLE THIRD OF SLAB OR BEAM DEPTH, AND SPACED AT 3 x DIAMETER CENTRES MINIMUM. DO NOT CUT REINFORCEMENT AT PENETRATIONS WITHOUT APPROVAL

REINFORCEMENT

C56

R10.

R11

R12

R13

R14

R15

R16 R17

R18

R19

R20.

R23

R24

R26

R28

R29

R38

USE MESH SUPPLIED IN FLAT SHEETS UNLESS APPROVED OTHERWISE. REINFORCEMENT TO BE CLEAN, FREE OF LOOSE MILL SCALE, RUST, OIL, GREASE, MUD OR OTHER MATERIAL THAT MIGHT REDUCE THE BOND BETWEEN REINFORCEMENT AND CONCRETE.

PROVIDE STANDARD COSS AND HOOKS TO ASSOL TERNINATE ENDS OF COLUMN AND BEAM LIGATURES IN A HOOK OF AT LEAST 135 DEGREES. PROVIDE FIRST LIGATURE WITHIN 50 mm OF FACE OF SUPPORT. PROVIDE N12 DIAGONAL TRIMMER BARS BY 1000 mm LONG AT EACH LAYER OF REINFORCEMENT AT RE-ENTRANT

CORNERS, OPENINGS, SERVICE PENETRATIONS etc UNO.

REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY IN TRUE PROJECTION. SET REINFORCEMENT OUT AT EQUAL CENTRES WHERE SPACING IS NOT NOMINATED.

SECURE REINFORCEMENT IN POSITION AGAINST DISPLACEMENT AND MAINTAIN SPECIFIED CLEAR CONCRETE COVER TO REINFORCEMENT (INCLUDING FITMENTS) BY APPROVED CHAIRS, SPACERS, LIGATURES OR THE DELET ON THACE REINFORCEMENT AFTER CONCRETING HAS COMMENCED. PROVIDE ADEQUATE SUPPORT TO PREVENT DISPLACEMENT OF REINFORCEMENT BY WORKMEN OR EQUIPMENT DURING CONCRETE PLACEMENT.

SUPPORT REINFORCEMENT ON PROPRIETARY CONCRETE, METAL OR PLASTIC SUPPORTS ADEQUATE TO WITHSTAND

CONSTRUCTION AND TRAFFIC LOADS AND MAINTAIN DURABILE, IMPLOY TRANSPORTS AND AND TRAFFIC LOADS AND MAINTAIN DURABILE, IMPLOY OF FINISHED CONCRETE STRUCTURE. SPLICE REINFORCEMENT ONLY AT LOCATIONS SHOWN ON DRAWINGS OR AS APPROVED BY SUPERINTENDENT. LAP LENGTHS TO COMPLY WITH AS3600, OR FOR SLAB AND WALL REINFORCEMENT WITH BARS AT 150 mm CENTRES WITH THE FOLLOWING UNO:

			BAR	SIZE					
LOCATION	COVER	fc	N12	N16	N20	N24	N28	N32	N36
HORIZONTAL BARS	>30	>20	400	650	950	1300	1700		
WITH 300 mm	>40	32	400	500	650	850	1000	1350	1650
CONCRETE BELOW	>50	>40	400	500	650	750	900	1050	1300
BAR									
HORIZONTAL BARS	>30	<20	300	550	750	1050	1350		
WITH 300 mm	>40	32	300	400	500	700	900	1100	1350
CONCRETE BELOW	>50	>40	300	400	500	600	700	850	1050
BAR, & VERT. BARS									

DO NOT INTERPOLATE INTERMEDIATE VALUES OF BAR LENGTHS. STAGGER LAPS WHERE POSSIBLE. LONGITUDINAL BARS IN BEAMS AND COLUMNS, ETC, WILL REQUIRE LONGER LAP LENGTHS.REFER TO as3600 OR THE SUPERINTENDENT. FOR

IN DEAMS AND COLUMNS, ETC, WILL REQUIRE LONGEN DAY LENGING, MARPEN TO SSOUD OR THE SUPERINTENDENT. FOR RIDGES LAP LENGTHS MULTS BEINCREASED BY 30% IF NOT STAGGERED. LAY MESH REINFORCEMENT SO THAT MINIMUM COVER IS TO MAIN WIRES UNO. PROVIDE MINIMUM MESH LAPS TO CROSS WIRES OF REINFORCING MESH, SO THAT TWO OUTERMOST WIRES OF ONE SHEET OVERLAP TWO OUTERMOST WIRES OF ADJACENT SHEET BY AT LEAST 25 mm, THUS:

MESH TYPE	END LAP	SIDE LAP
RECTANGULAR MESHES	225	125
SQUARE MESHES SL102 TO SL42	225	225
SL81	125	125
TRENCH MESH	500	N/A

DO NOT LAP MORE THAN THREE SHEETS AT ANY ONE POINT

USE N12 SPLICE BARS TO LAP ADJACENT SHEETS OF MESH, SPACING OF SPLICE BARS TO MATCH SPACING OF BARS IN WESH, SPLICE BARS TO OVERLAP ADJACENT MESH BY 300 mm MINIMUM. SPLICE TRENCH MESH BY A LAP OF 500 mm MINIMUM. AT T- AND L-INTERSECTIONS, CONTINUE TRENCH MESH FULL

WIDTH OF INTERSECTION. AT L-INTERSECTIONS PROVIDE AN N12 L BAR TO LAP 500 mm WITH OUTSIDE BARS. DO NOT WELD REINFORCEMENT UNLESS SHOWN ON DRAWINGS OR OTHERWISE APPROVED BY SUPERINTENDENT WHERE ALLOWED, WELDING OF REINFORCEMENT (INCLUDING TACK-WELDING FOR FIXING PURPOSES) TO COMPLY WITH AS3800 AND AS1554.3. DO NOT WELD REINFORCEMENT WITHIN 75 mm OF A SECTION THAT HAS BEEN BENT (100 mm FOR N28 AND N32 BARS, 125 mm FOR N36 BARS),

EXTENT OF WELD INSPECTION/TESTING TO BE VISUAL SCANNING

- VISUAL EXAMINATION

100% OF WELDS 50% OF WELDS

- RADIOGRAPHIC OR ULTRASONIC 5% OF FILLET WELDS AND 100% OF BUTT WELDS.

DO NOT BEND OR STRAIN REINFORCEMENT IN A WAY THAT MAY CAUSE DAMAGE. BEND DIAMETERS TO BE TO AS3600 ARS TO BE BENT COLD UNO. GRADE 250 BARS MAY BE BENT AT TEMPERATURES UP TO 850°C. DO NOT COOL HEATED BARS BY QUENCHING

DO NOT CUT, BEND NOR HEAT REINFORCEMENT ON SITE WITHOUT SUPERINTENDENTS PRIOR WRITTEN APPROVA HOT BENDING OF REINFORCEMENT MUST COMPLY WITH AS3600 CLAUSE 19.2.3.1. USE TEMPERATURE INDICATOR PAINTS AND/OR CRAYONS TO ENSURE REINFORCEMENT TEMPERATURE DOES NOT EXCEED MANUFACTURERS RECOMMENDED LIMITS.

DO NOT BEND REINFORCEMENT AFTER GAI VANISING OR APPLICATION OF OTHER PROTECTIVE COATINGS USE STRAIGHT, SMOOTH HOT DIPPED GALVANISED DOWELS SAWN TO LENGTH WITH SQUARE OUT ENDS FREE OF BURRS. INSTALL DOWELS PARALLEL TO SURFACE OF SLAB AND PERPENDICULAR TO PLANE OF JOINT. MAINTAIN DOWEL ALIGNMENT BY USE OF A SUITABLE SUPPORT ASSEMBLY TO ENSURE HORIZONTAL AND VERTICAL ALIGNMENT TOLERANCE OF 5 IN 400. DO NOT INSERT DOWELS DURING PLACEMENT OF CONCRETE.

USE 10 mm HO IDPPED GALVANISED DANLEY DIAMOND DOWELS (TEL: 07 3899 3466). INSTALL DOWELS PARALLEL TO SURFACE OF SLAB. MAINTAIN DOWEL ALIGNMENT BY USE OF A SUITABLE SUPPORT ASSEMBLY TO ENSURE HORIZONTAL AND VERTICAL ALIGNMENT TOLERANCE OF 5 IN 400. DO NOT INSERT DOWELS DURING PLACEMENT OF CONCRETE. PERCUSSION ROTARY DRILL HOLES FOR GROUTED BARS AND THREADED RODS (NOTE: CORED HOLES MUST BE ROUGHENED). HOLE DIAMETER AND INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENT EMBEDMENT LENGTHS AS SHOWN ON DRAWINGS.

ENSURE DRILLED HOLES FOR GROUTED BARS AND THREADED RODS ARE DRY AND CLEANED THOROUGHLY BEFORE NSTALLING ANCHORS. WIRE BRUSH HOLES AND BLOW OUT WITH COMPRESSED AIR TO REMOVE DUST. FILL HOLE WITH ADHESIVE USING A CAULKING GUN FROM BOTTOM OF HOLE OUTWARDS. DISCARD ADHESIVE FROM FIRST TRIGGER PULL. PROVIDE BARS/THREADED RODS WITH CHAMFERED (CHISELLED) ENDS. BARS TO BE DEGREASED, AND FLAKY RUST REMOVED. ROTATE WHILE INSERTING TO ENSURE FULLY COATED AND PUSH FULLY INTO HOLE. PROTECT FROM ISTURANCE DURING FOLLOW MANUFACTURER'S RECOMMENDATIONS. EMBEDDED FIXTURANCE DURING, FOLLOW MANUFACTURER'S RECOMMENDATIONS. EMBEDDED FIXTURES (INSERTS, THREADED SOCKETS, FERRULES, BOLTS, AND STAINLESS REINFORCING etc.) WITHIN

COVER CONCRETE OR EXPOSED TO AIR MUST NOT BE IN CONTACT WITH REINFORCING STEEL. PROVIDE ISOLATING STRIPS BETWEEN DISSIMILAR STEELS AND TO SEPARATE EXPOSED FIXTURES.

NOTES & SPECIFICATIONS FOR A SHED 12.0M x 12.0M x 5.7M

RBP CERTIFIC	ATION: RPE	Q 21642		DRAWING NO.	REV.	
DESIGNED: A	4K	SCALE:	AS NOTED	0.5	р	
DRAWN: y	X. VIET	JOB NO:	BSTDG 26233M	05	В	
THECKED: I	LK	DATE:	27 Apr 2021			

BUILDING DESIGNER'S RESPONSIBILITY STATEMENT WITH REGARD TO THE OCCUPATIONAL HEALTH & SAFETY ACT 2004 **RISK PREVENTION & MANAGEMENT - BUILDING CONSTRUCTION RISK PREVENTION & MANAGEMENT - BUILDING USE**

DESIGN INTENT

THE CONSTRUCTION OF THE BUILDING BECOMES A WORKPLACE FOR THOSE INVOLVED IN THE CONSTRUCTION INDUSTRY. AS DESIGNERS IT IS ASSUMED THAT THE BUILDER/CONSTRUCTION MANAGEMENT FOR THE PROJECT ARE AWARE OF AND IS FAMILIAR WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 INCLUSIVE WITH 2007 AND 2012 AMENDMENTS. AT THIS DESIGN STAGE IN RESPONSE TO THE OCCUPATIONAL HEALTH & SAFETY ACT 2004 SECTION 28 ALSO TO MAKE AWARE OF THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS 2007 INCLUDING 2012 AMENDMENTS BY LISTING SOME OF THE BASIC REQUIREMENTS.

RISK & HAZARD IDENTIFICATION

IN PARTICULAR PART 3 DIVISION 2 DUTIES OF EMPLOYERS: CLAUSE 3.3.3 HAZARD IDENTIFICATION - AN EMPLOYER MUST SO FAR AS IS REASONABLY PRACTICABLE. IDENTIFY ANY TASK THAT AN EMPLOYEE IS REQUIRED TO UNDERTAKE AT ANY WORKPLACE THAT INVOLVES A FALL INCLUDING

- ANY PLANT OR STRUCTURE BEING CONSTRUCTED, DEMOLISHED, INSPECTED, TESTED, MAINTAINED, REPAIRED OR
- CLEANED; ON A FRAGILE, SLIPPERY OR POTENTIALLY UNSTABLE SURFACE;
- USING EQUIPMENT TO GAIN ACCESS TO AN ELEVATED LEVEL:
- ON A SLOPING SURFACE ON WHICH IT IS DIFFICULT TO MAINTAIN BALANCE
- IN PROXIMITY TO AN UNPROTECTED EDGE;
- IN CLOSE PROXIMITY TO A HOLE. SHAFT OR PIT THAT IS OF SUFFICIENT DIMENSIONS TO ALLOW A PERSON TO FALL INTO THE HOLE SHAFT OR PIT

SAFETY MANAGEMENT SYSTEM (SMS):

- DUTIES OF EMPLOYERS: CLAUSE 3.3.4 CONTROL OF RISK:
 - AN EMPLOYER MUST INSURE THAT IF AN EMPLOYEE IS REQUIRED TO UNDERTAKE A TASK THAT INVOLVES A RISK OF A FALL. THE RISK IS CONTROLLED. SO FAR AS IS REASONABLY PRACTICABLE, BY ARRANGING FOR THE TASK TO BE UNDERTAKEN -(a) ON THE GROUND; OR

- (b) ON A SOLID CONSTRUCTION.
- IF IT IS NOT REASONABLY PRACTICABLE TO COMPLY WITH THE PREVIOUS STATEMENT OR ONLY PART OF THE TASK MAY BE UNDERTAKEN & A RISK OF A FALL STILL REMAINS, THE EMPLOYER MUST REDUCE THE RISK, SO FAR AS REASONABLY PRACTICABLE, BY ENSURING THAT A PASSIVE FALL PREVENTION DEVICE IS USED.
- IF IT IS NOT REASONABLY PRACTICABLE TO COMPLY WITH THE PREVIOUS TWO STATEMENTS OR ONLY PART OF THE TASK MAY BE UNDERTAKEN & A RISK OF A FALL STILL REMAINS, THE EMPLOYER MUST REDUCE THE RISK. SO FAR AS REASONABLY PRACTICABLE, BY PUTTING IN PLACE A FALL ARREST SYSTEM.
- IF IT IS NOT REASONABLY PRACTICABLE TO COMPLY WITH THE PREVIOUS TWO STATEMENTS OR ONLY PART OF THE TASK MAY BE UNDERTAKEN & A RISK OF A FALL STILL REMAINS, THE EMPLOYER MUST REDUCE THE RISK, SO FAR AS REASONABLY PRACTICABLE, BY PUTTING IN PLACE A FALL ARREST SYSTEM.

HIGH RISK WORK

PART 3.6

DIVISION 1 REGULATION 3.6.1 LISTS THE REQUIREMENTS REGARDING LICENSED WORKERS. REGULATION 3.6.2 STATES THAT AN EMPLOYER MUST NOT USE UNLICENSED EMPLOYEES TO DO HIGH RISK WORK

- AN EMPLOYER MUST NOT ALLOW AN EMPLOYEE TO DO HIGH **RISK WORK UNLESS**
- (a) THE EMPLOYEE HOLDS AN APPROPRIATE HIGH RISK WORK LICENCE IN RELATION TO THAT WORK; OR
- (b) REGULATION 3.6.3 (1)(a) OR 3.6.3 (1)(b) APPLIES TO THE EMPLOYEE

HIGH RISK WORK (CONTINUED)

3.6.3 EXCEPTIONS

- REGULATION 3.6.2 DOES NOT APPLY TO A PERSON -(a) WHO IS UNDERTAKING TRAINING FOR THE PURPOSE OF
- OBTAINING A HIGH RISK LICENCE; OR (b) WHO IS A PERSON WHO IS AUTHORISED TO WORK UNDER REGULATION 3.6 10⁻ OR
- (c) WHO IS WORKING UNDER THE TERMS OF THE EXEMPTION GRANTED TO THE PERSON'S EMPLOYER UNDER REGULATION
- 7.2.2 -THE AUTHORITY MAY EXEMPT AN EMPLOYER, OR CLASS OF EMPLOYER, FROM COMPLYING WITH REGULATION 3.6.2 IN RELATION TO SPECIFIED HIGH RISK WORK THAT THE EMPLOYER SEEKS TO HAVE PERFORMED BY A PERSON, WHO DOES NOT HOLD A HIGH RISK WORK LICENCE (INCLUDING PERSONS WHO ARE UNDER 18 YEARS OF AGE).

HAZARDOUS INDUSTRIES

PART 5 1 CONSTRUCTION

- PART 5.1.2 WHAT IS CONSTRUCTION WORK?
 - (1) IN THESE REGULATIONS CONSTRUCTION WORK MEANS ANY WORK PERFORMED IN CONNECTION WITH THE CONSTRUCTION, ALTERATION, CONVERSION, FITTING OUT, COMMISSIONING, RENOVATION, REFURBISHMENT DECOMMISSIONING, OR DEMOLITION OF ANY BUILDING STRUCTURE, OR ANY SIMILAR ACTIVITY
- PART 5.1.3 WHAT IS HIGH RISK CONSTRUCTION?
 - (a) WHERE THERE IS A RISK OF A PERSON FALLING MORE THAN 2 METERS
 - (c) INVOLVING DEMOLITION:
 - (e) INVOLVING STRUCTURAL ALTERATIONS THAT REQUIRE TEMPORARY SUPPORT TO PREVENT COLLAPSE
 - (f) INVOLVING A CONFINED SPACE;
 - (q) INVOLVING A TRENCH OR SHAFT IF THE EXCAVATED DEPTH IS MORE THAN I DEPERTING S ARE
 - (n) INVOLVING TILT-UP OR PRECAST CONCRETE; (p) AT WORKPLACES WHERE THERE IS ANY MOVEMENT OF MOBILE PLANT;

CONSTRUCTION INDUSTRY STATISTICS:

UNLIKE OTHER INDUSTRIES OUTLINED IN WORKSAFE, THE CONSTRUCTION INDUSTRY IS SEPARATED INTO FIVE DISCIPLINES -CARPENTERS, CONCRETERS, PLUMBERS, ROOF WORKERS AND YOUNG WORKERS

- 1. THE NUMBER ONE COMMON INJURY FOR CONCRETERS, PLUMBERS AND ROOF WORKERS IS BACK MUSCLE STRAIN AND PAIN FROM MANUAL HANDLING - LIFTING PUSHING PULLING HOLDING LOWERING THROWING CARRYING PACKING TYPING ASSEMBLING, CLEANING, SORTING AND USING OBJECTS, TOOLS AND EQUIPMENT FOR LOADING & UNLOADING. HOWEVER THIS IS ONLY THE SECOND HIGHEST INJURY FOR CARPENTERS AND YOUNG WORKERS.
- 2. THE SECOND HIGHEST INJURY FOR CONCRETERS, PLUMBERS AND ROOF WORKERS IS KNEE STRAIN FROM SLIPS OR TRIPS DUE TO POOR HOUSE KEEPING AND TRAUMATIC INJURIES FROM TOOLS SUCH AS SCREEDS AND HAMMERS . HOWEVER THIS IS ONLY THE THIRD HIGHEST INJURY FOR CARPENTERS AND YOUNG WORKERS
- THE THIRD HIGHEST INJURY FOR CONCRETERS, PLUMBERS AND 3. ROOF WORKERS IS HAND AND FINGER CUTS AND BRUISES ALONG WITH SHOULDER STRAINS . HOWEVER THIS IS THE NUMBER ONE INJURY FOR CARPENTERS AND YOUNG WORKERS. INCLUDING AMPUTATION OF HANDS AND FINGERS

REFER TO JOB SAFETY ANALYSIS AND WORKSAFE COMPLIANCE REQUIREMENTS UNDER RISK PREVENTION & MANAGEMENT - BUILDING USE

DESIGN INTENT:

THE BUILDING OR PARTS OF THE BUILDING FOR WHICH THE STRUCTURE IS USED AS A WORKPLACE HAS BEEN DESIGNED AS FAR AS REASONABLY PRACTICABLE TO BE SAFE AND WITHOUT RISKS TO THE HEALTH OF THE PERSONS USING IT AS A WORKPLACE FOR THE PURPOSE FOR WHICH IT HAS BEEN DESIGNED. AT THIS DESIGN STAGE IN RESPONSE TO THE OCCUPATIONAL HEALTH & SAFETY ACT 2004 (2012 AMENDMENTS) PART 3 DIVISION 5 SECTION 28 WITH REGARD TO RISKS & HAZARDS THAT EXIST AND CANNOT BE ELIMINATED HAVE CONTROL MEASURES THAT HAVE BEEN SET OUT UNDER THE TERMS OF THE NATIONAL CONSTRUCTION CODE (NCC) AND THE AUSTRALIAN STANDARDS

RISK & HAZARD IDENTIFICATION:

IN PRINCIPLE THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 SECTION 28 AIMS TO SECURE THE HEALTH, SAFETY AND WELFARE OF EMPLOYEES & OTHER PEOPLE AT WORK GIVING THE HIGHEST LEVEL OF PROTECTION POSSIBLE. TO PROTECT THE PUBLIC FROM THE HEALTH AND SAFETY RISKS OF BUSINESS ACTIVITIES. SAFER DESIGNED BUILDINGS & STRUCTURES SUPPORTS SAFE & HEALTHY WORKPLACES LEADING TO THE REDUCTION IN WORKPLACE INJURIES, DISEASE & DEATH.

SAFETY MANAGEMENT SYSTEM (SMS):

RISK SHOULD BE ELIMINATED, IF NOT, RISK SHOULD BE CONTROLLED BY APPLYING RECOGNISED STANDARDS SOLUTIONS AS STATED PREVIOUSLY - THE NATIONAL CONSTRUCTION CODE (NCC), AUSTRALIAN STANDARDS AND WORKSAFE GUIDE LINES

BUILDING SAFETY ANALYSIS:

THE ELIMINATION OR CONTROL REQUIRES APPLICATION OF RECOGNISED STANDARD SOLUTIONS. TECHNICAL PROVISIONS HAVE BEEN STATED ON THESE DRAWINGS IN A VARIETY OF MATTERS WITH **REGARD TO BUILDING CONSTRUCTION - THE NATIONAL** CONSTRUCTION CODE (NCC) AND THE AUSTRALIAN STANDARDS

YJOB SAFETY ANALYSIS: D FOR LISE Δ T

THE OCCUPATIONAL HEALTH & SAFETY ACT 2004 REQUIRES THAT BUILDING DESIGNERS MAKE OWNERS & MANAGERS AWARE OF DIVISION 5 SECTION 26 - DUTIES OF PERSONS WHO MANAGE OR CONTROL WORKPLACES

WORKSAFE COMPLIANCE REQUIRES: CONSTRUCTIVE STRATEGIES TO IDENTIFY WORK SAFETY RISKS AND JOB SAFETY ANALYSIS USING THE STANDARD JOB SAFETY ANALYSIS WORK SHEETS (JSA) OR SAFE WORK METHOD STATEMENT FORMS (SWMS).

- 1. CONSULTATION REQUIREMENTS
 - WITH EMPLOYEES AND ANY INDEPENDENT CONTRACTORS
 - IDENTIFICATION OF UNSAFE AND HAZARDOUS TASKS
 - ELIMINATION OF HIGH RISK HAZARDOUS TASKS WHERE POSSIBLE
 - CHANGE WORKPLACE AND OBJECTS TO
 - PREVENT/REDUCE/CONTROL RISK
 - PROVIDE TRAINING FOR KNOWLEDGE OF CONDUCT AND PRACTICE
- 2. SAFE WORKING METHOD STATEMENT

PROJECT:

- FOR EMPLOYEES AND ANY INDEPENDENT CONTRACTORS
- FOR INSTRUCTION INFORMATION AND CONSULTATION
- FOR PERFORMANCE OUTCOMES NEGATIVE AND POSITIVE

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THE AGRICULTURAL SECTOR STATISTICS:

- 1. THE NUMBER ONE COMMON INJURY IS BACK MUSCLE STRAIN AND PAIN FROM MANUAL HANDLING - LIFTING, PUSHING, PULLING, HOLDING, LOWERING THROWING, CARRYING, PACKING, TYPING, ASSEMBLING, CLEANING, SORTING AND USING OBJECTS, TOOLS AND EQUIPMENT FOR LOADING & UNLOADING, PARTICULARLY WITH REGARD TO FEED PRODUCE AND ANIMALS
- 2. THE SECOND HIGHEST INJURY IS SHOULDER MUSCLE STRESS/ STRAIN FROM HEAVY LIFTING OF BOXES, FREIGHT OR PALLETS. TRAUMATIC JOINT/MUSCLE INJURY OR STRAIN FROM HEAVY LIFTING
- 3. THE THIRD MOST COMMON TYPE OF INJURY IS WOUNDS/ LACERATIONS OR FRACTURES DUE TO FALLING LOADS OR FROM BEING CRUSHED BETWEEN MATERIALS AND/OR FOUIPMENT

COLLECTIVELY THESE THE BULK OF THESE CONDITIONS ARE KNOWN AS MUSCULOSKELETAL DISORDERS (MSD's)

HAZARDOUS MANUAL HANDLING INVOLVES:

- 1. REPETITIVE OR SUSTAINED APPLICATION OF FORCE, AWKWARD POSTURES OR MOVEMENTS
- 2. TASKS THAT PEOPLE FIND DIFFICULT DUE TO THE HIGH DEGREE OF FORCE REQUIRED.
- 3. EXPOSURE TO SUSTAINED VIBRATION
- 4. MANUAL HANDLING OF UNSAFE LOADS THAT ARE DIFFICULT TO GRASP OR HOLD

MECHANICAL HANDLING.

- 1. FORKLIFTS CAUSE MORE WORKPLACE DEATHS AND INJURIES THAN ANY OTHER PIECE OF EQUIPMENT
- 2. ONE IN THREE FORKLIFT-RELATED INJURIES OCCURS WHEN AN OPERATOR GETS ON OR OFF A FORKLIFT, OFTEN RESULTING IN MUSCO-SKELETAL BACK INJURIES.

MAJOR HAZARD FACILITY (MHF):

- 1. MAJOR HAZARD FACILITIES REQUIRE WORKSAFE LICENSES FOR COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS 2007 INCLUDING 2012 AMENDMENTS.
- 2. IDENTIFICATION, ASSESSMENTS AND CONTROLS SUPPORTED WITH A COMPLIANCE CHECK LIST WITH THE PROVISION FOR FUTURE MODIFIC.ATIONS AND REVIEW PROCESSES MUST BE IN PLACE AT THE COMPLETION OF THE CONSTRUCTED BUILDING BEFORE SALE OR LEASE

IDENTIFIABLE RISKS:

- 1 THE COMPLIANT LOADING ZONE AS SHOWN ON THE SITE PLAN REQUIRES CLEAR DEMARCATION FROM THE REST OF THE FLOOR
- 2. THE PATHWAY FROM THE OFFICE DOOR TO THE PA DOOR SHOULD BE CLEARLY DEFINED.
- 3. SAFETY PROCEDURES SHOULD BE OUTLINED FOR THE LOADING AND UNLOADING OF GOODS TO A SERVICE VEHICLE WITHIN THE LOADING ZONE

OHS-Notes_Class-1a FOR A SHED 12.0M x 12.0M x 5.7M

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MEMBER	MA	RK	SECTION
WALL GIRT	E	G	C150-19
WALL GIRT	S	G	C150-15
PURLIN	R	P	C150-19
EAVE PURLIN	E	Р	C150-24
INTERMEDIATE COLU	JMNS - 2/	C1	2/C300-24
INTERMEDIATE RAFT	TERS - 2/R	.1	2/C300-24
ENDWALL COLUM	NS - C2		C300-24
ENDWALL RAFTER	S - R2		C300-24
END WALL MULLI	ON - 2/M		2/C300-24
R/D MULLION - RE	M		Z150-24
EXTRA R/D MULL	ION - ER	M	C150-19
R/D HEADER - RDF	1		C150-15
KNEE PLATE		B	OLT GRADE
3.0 mm G45	0		M16 / 8.8
APEX PLATE		B	OLT GRADE
3.0 mm G45	0		M16 / 8.8
BASE PLATE		B	OLT GRADE
5mm G400)		M16 / 8.8
ROOF BRACING	RB	32x1.2 S	STRAP BRACING
WALL BRACING	WB	32x1.2 S	STRAP BRACING
BRIDGING	BR	22mm C	EILING BATTEN

TITLE: ROOF FRAMING PLAN FOR A SHED 12.0M x 12.0M x 5.7M

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- GIRT SPACING IS 1100 CTS MAX. - THE SGD DOOR POSITION WILL BE DETERMINED ON SITE BY BUILDER. - ROLLER DOOR HEAD HEIGHT WILL BE DETERMINED ON SITE BY BUILDER. - ALL ROLLER DOOR TO BE FITTED WITH APPROVED WINDLOCKS AND FITTED IN ACCORDANCE WITH THE ROLLER DOOR MANUFACTURES SPECIFICATIONS.



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ELEVATIONS FRAMING FOR A SHED 12.0M x 12.0M x 5.7M

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Fairymead, QLD 4670

TITLE: ELEVATIONS FRAMING FOR A SHED 12.0M x 12.0M x 5.7M

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TITLE: ELEVATIONS SHEETING FOR A SHED 12.0M x 12.0M x 5.7M

RBP CERTIFICATION: RPEQ 21642		DRAWING NO.	REV.
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Fairymead, QLD 4670







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Paul	Jacobsen	

site Address: Lot 2 RP83073 River Rd Fairymead, QLD 4670

TITLE: CONNECTION DETAILS FOR A SHED 12.0M x 12.0M x 5.7M

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Appendix D

Form 12 Aspect Inspection Certificate

Form 12

Aspect Inspection Certificate (Appointed Competent Person)



This form is to be used for the purposes of sections 74 and 77 of the Building Regulation 2021 (appointed competent person statement that an aspect of work has been completed and complies with the building development approval).

Information about how to complete this form is in the Appendix at the end of the form.

1. Indicate the aspect of the building work

Examples of aspects of the stage of building work (and not limited to the examples provided below):

waterproofing, tiling, glazing, energy efficiency, emergency lights, exit signs, smoke detection, air-conditioning.

Aspect of building work (indicate the aspect)

Slab reinforcement

2. Property description

The description must identify all land the subject of the application.

The lot and plan details (e.g. SP/RP) are shown on title documents or a rates notice.

If the plan is not registered by title, provide previous lot and plan details.

Street address Lot 2 River Road

		Suburb/locality	Fairymead
State	QLD	Postcode	4670

Lot and plan details (attach list if necessary)

Lot 2 on RP83073

Local government area the land is situated in

Bundaberg Regional Council

3. Building/structure description

Building/structure description

Shed

Class of building/structure

1a

4. Description of the extent of aspect/s certified

Clearly describe the extent of work covered by this certificate, i.e. all structural aspects of the steel roof beams and location i.e. what floors the work was on, the parts of a room.

All structural aspects of the Slab as specified on drawings

5. Basis of certification

Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications were relied upon.

Compliance with the Building Act 1975

6. Reference documentation

Clearly identify any relevant documentation, e.g. numbered structural engineering plans.

BSTDG 26233M DWG 01-18 Rev B

7. Building certifier reference number and building development approval number

Building certifier's name (in full)	
Building certifier reference number	Development approval

8. Details of appointed competent person

Name (in full)	Stephen Alexander Strachan		
Company name (if applicable)	Engineers Queensland		
Contact person	Stephen Strachan		
Business phone number	(07) 4972 5246	Mobile	0412 991 431
Email address	office@engqld.com.au		
Postal address	17 Flinders Parade		
		Suburb/locality	Gladstone
State	QLD	Postcode	4680
Licence class or registration type (<i>if applicable</i>)	Registered Professional Engineer of Queensland		
Licence class or registration number (if applicable)	RPEQ 2968		
Date request to inspect received from building certifier	Click or tap to enter a date.		

9. Signature of appointed competent person

Signature	sasth	Date	15/09/2022	

LOCAL GOVERNMENT USE ONLY

Date received

Click or tap to enter a date.

Reference number/s