

QUEENSLAND FIRE & RESCUE AUTHORITY - FIRE SAFETY
 ASSESSMENT OF SPECIAL FIRE SERVICES
 QFR Ref No: 2003/03-008
 Sheet No: 3 of 3
 Signed: [Signature]
 (Authorised Officer)
 For the Chief Commissioner
 Date: 8 JUL 2003

DEVELOPMENT CERTIFICATION

Decision Notice No

70618

Received from Mr Frank Sharpe

30 JUL 2003
 FIRE & RESCUE AUTHORITY

Development Approval for Building Work is granted pursuant to the Building Act 1975; subject to conditions in the Decision Notice

REV	DESCRIPTION	BY	DATE

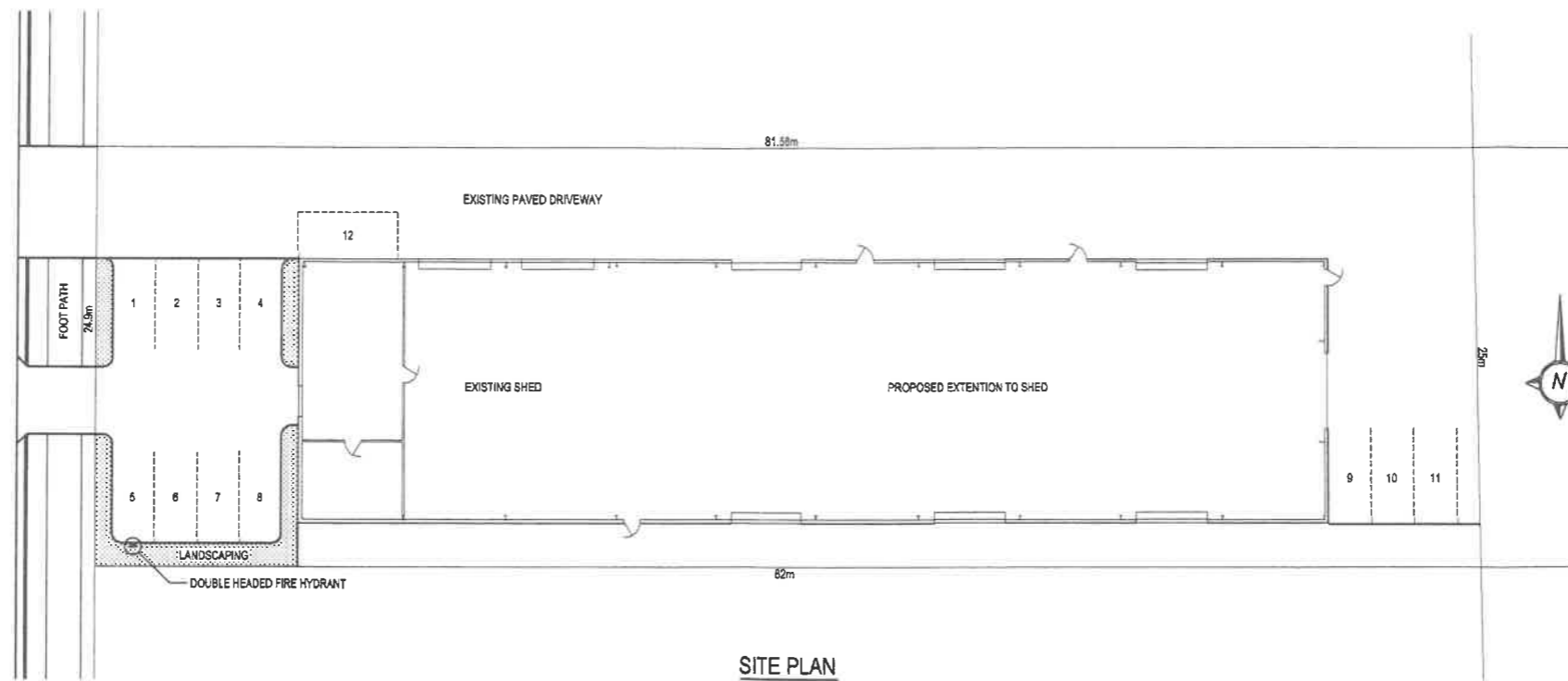
This is the plan referred to in the specification.
 Purchaser:-
 Date:-
 This drawing and information remain the property of G. Tweedle and is covered by copyright.

PROJECT:-
 EXTENSION TO SHED
 LOT 14 FURSDEN ST
 GLENELLA

MACKAY **EASY BUILD**
 Tel. (07) 4952 5800 Fax (07) 4952 4888

Builder: G. Tweedle	Checked:
QBSANo. : 031225	Certified:
Date:-	REV.
DWG No:-EAS 020 14.01	

x = HR + Door.




SITE PLAN

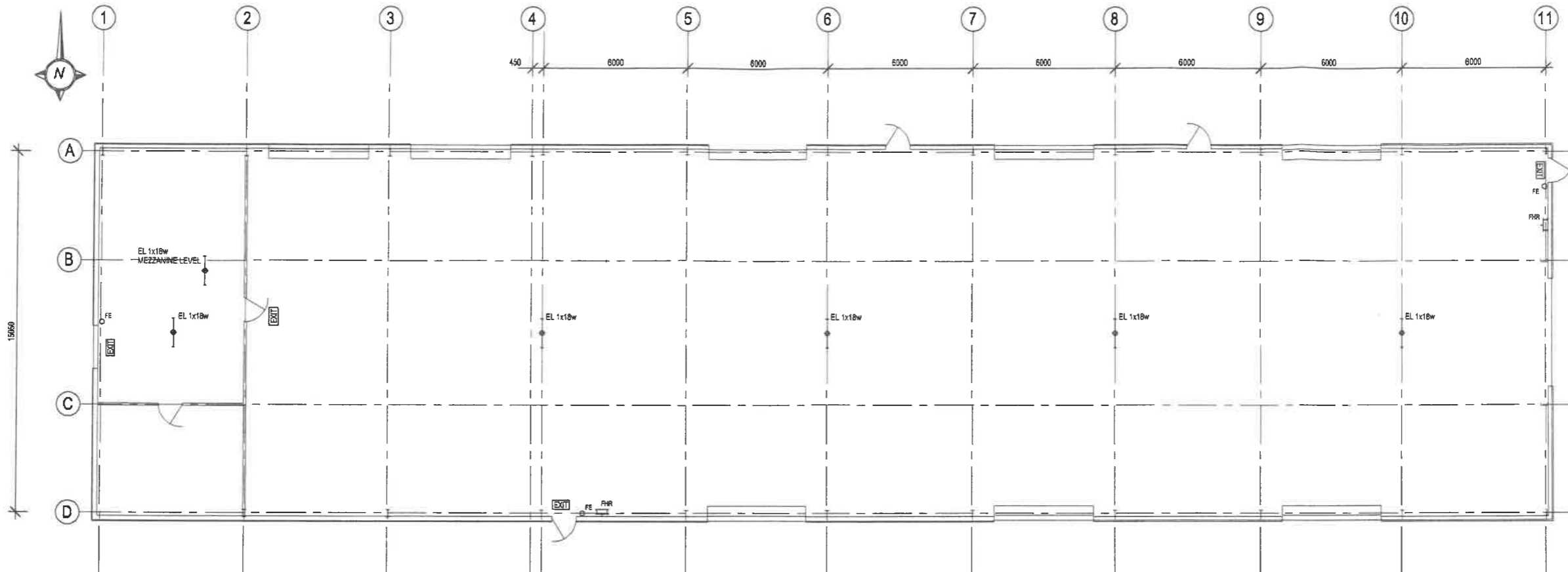
**DEVELOPMENT
CERTIFICATION**

Decision Notice N^o





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revision A ORIGINAL ISSUE - 14/02/07	 steve mckenzie B.E.(hons), CPENG, MIEAUST, RPEQ consulting engineer pty. ltd. 12 jumbull street, garbutt 4814 t > 4778 9392 f > 4778 9819 m > 0419 688 602 acs 092 705 130	project PROPOSED EXTENSION TO EXISTING WAREHOUSE FOR F SHARPE	location LOT 14 FURSDEN STREET GLENELLA, MACKAY QLD - 4740	drawing title SITE PLAN	scale 1:100	drawn MAB	draw no. 06046GD
					design McK	date FEB '07	sheet no. A01



FLOOR PLAN

- 
EL 1x18w
 EMERGENCY LIGHTING 1x18w NO MAINTAINED NO DIFFUSER. 4.5 M MOUNTING HEIGHT Product Code: (Starlite Premium PST118w or approved equal) INSTALLED IN ACCORDANCE WITH AS 2293
- 
EXIT
 EXIT SIGN ABOVE DOOR INSTALLED IN ACCORDANCE WITH AS 2293
- 
FE
 DRY CHEMICAL FIRE EXTINGUISHER 2A80BE INSTALLED IN ACCORDANCE WITH AS 2444
- 
FHR
 38M FIRE HOSE REEL INSTALLED IN ACCORDANCE WITH AS 2441

FIRE SERVICES


REQUIRED EXIT DOORS SHALL BE FITTED WITH APPROVED ESCAPE LEVER HARDWARE.
 PROVIDE FIRE EXTINGUISHER ADJACENT TO EXIT DOORS
 LOCATION OF EMERGENCY LIGHTS ARE SHOWN FOR GUIDANCE ONLY THE INSTALLER SHALL CERTIFY THAT THE INSTALLATION COMPLIES

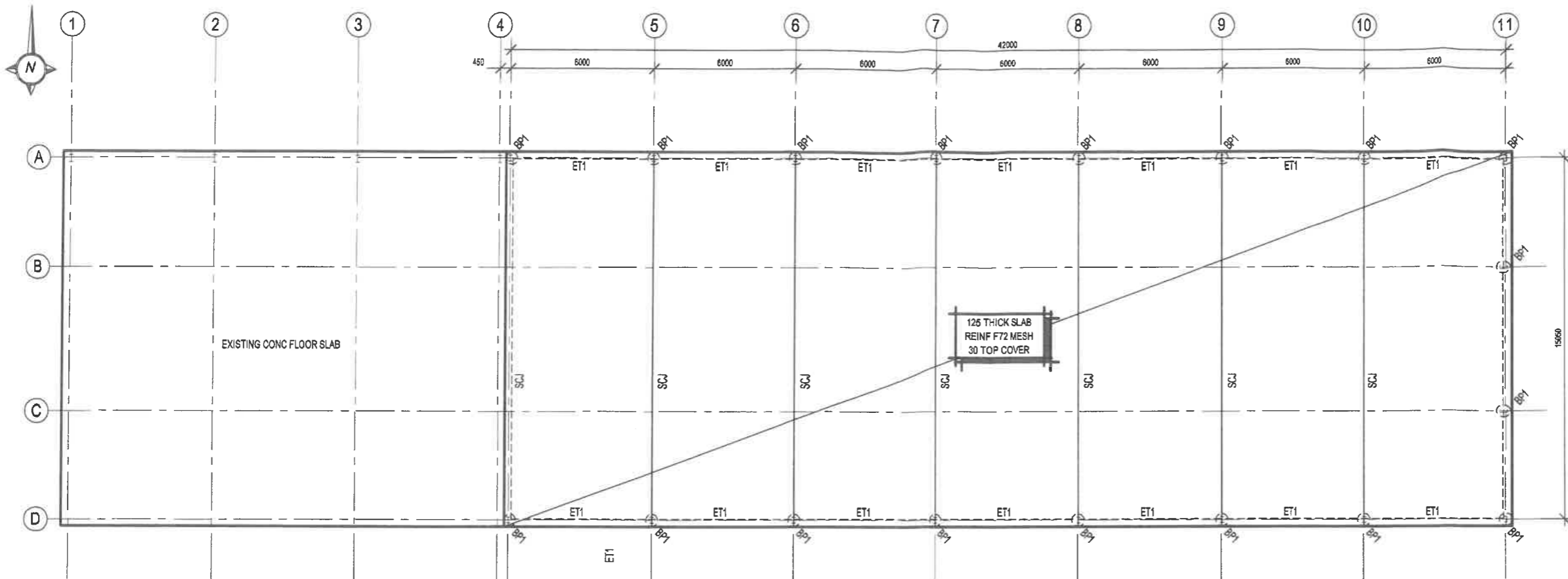


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revision A: ORIGINAL ISSUE - 04/10/06	 steve mckenzie S.E. (hons), CPENG, MIEAust, RPEQ consulting 12 tumbull street, garbutt 4814 engineer t > 4779 9392 f > 4779 9819 pty. ltd. m > 0419 689 602 acn 092 705 130	project PROPOSED EXTENSION TO EXISTING WAREHOUSE FOR F SHARPE	location LOT 14 FURSDEN STREET GLENELLA, MACKAY QLD - 4740	drawing title FLOOR PLAN	scale 1:100	drawn MAB	draw no. 06046GD
					design MCK	date FEB '07	sheet no. A02



CONCRETE

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH A.S. 3600-1994.
- CONCRETE STRENGTH GRADE FOR PARTICULAR ELEMENTS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

ELEMENT	CONCRETE STRENGTH GRADE	COVER
PAD FOOTINGS	N25	65
STRIP FOOTINGS	N25	65
BORED PIERS	N25	75
SLABS ON GROUND		
EXTERNAL	REFER DWGS.	
INTERNAL		
SUSPENDED SLABS		
EXTERNAL	N32	40
INTERNAL	N32	20
SUSPENDED BEAMS		
EXTERNAL	N32	40
INTERNAL	N32	20
COLUMNS	N32	50
BLOCK FILL	REFER MASONRY NOTES	
TILT-UP PANELS	REFER TILT UP PANEL NOTES	
ALSO REFER TILT UP NOTES.		
MAX AGGREGATE SIZE = 20mm		
SLUMP = 80mm +/- 15mm (AT POINT OF DISCHARGE)		

- CONCRETE TESTING -
- FOR NORMAL GRADE CONCRETE TESTING PRODUCTION ASSESSMENT AND CONTROL IN ACCORDANCE WITH AS 3600-1994 CLAUSE 20.2
- FOR SPECIAL GRADE CONCRETE, PROJECT ASSESSMENT IS REQUIRED AS FOLLOWS:
- FREQUENCY OF TESTING SHALL BE 1 SAMPLE EVERY 50 m³ BUT NOT LESS THAN 3 SAMPLES.
- FOR POURS LESS THAN 25 m³ 1 SAMPLE MINIMUM.
- A SAMPLE SHALL NOT BE LESS THAN 2 CYLINDERS. TESTING RESULTS SHALL BE SUBMITTED TO THE PRINCIPAL.

- UNLESS NOTED OTHERWISE ALL FORMED EDGES AND CORNERS OF CONCRETE MEMBERS SHALL HAVE 20mm CHAMFERS
- EXACT SIZE AND LOCATION OF PENETRATIONS ARE TO BE OBTAINED FROM WORKSHOP DRAWINGS PRIOR TO SCHEDULING OF REINFORCEMENT, AND ARE NOT TO EXCEED DIMENSIONS WHERE SHOWN ON STRUCTURAL DRAWINGS.
- NO CHASES, HOLES GREATER THAN 150mm DIAMETER, OR EMBEDMENT OF PIPES GREATER THAN 40mm DIAMETER OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN THE CONCRETE SLABS OR ALL OTHER CONCRETE MEMBERS. NO PENETRATION, CHASES OR EMBEDMENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE STRUCTURAL ENGINEER.
- SERVICES SHALL NOT PENETRATE BEAMS UNLESS APPROVED IN WRITING BY PRINCIPALS REPRESENTATIVE.

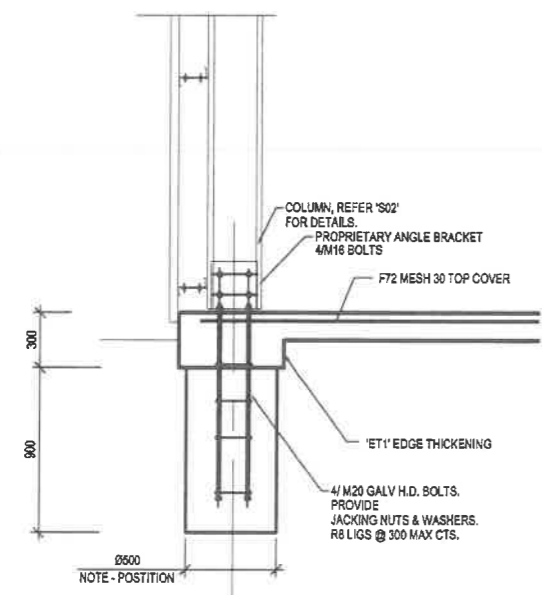
- CONDUITS CAST INTO CONCRETE MEMBERS SHALL BE SPACED AT MAX. DISTANCE POSSIBLE AND UNDER NO CIRCUMSTANCES CLOSER THAN A CLEAR SPACING OF TWICE THE LARGER CONDUIT DIAMETER FROM PARALLEL REINFORCEMENT OR ANY OTHER CONDUIT. NO CONDUITS SHALL BE PLACED WITHIN THE COVER OF THE REINFORCEMENT.
- BREAK BOND BETWEEN ALL LOAD BEARING MASONRY (NON REINFORCED) AND CONCRETE WITH MINIMUM OF TWO LAYERS OF SUPER ALGOR AND OR 2 LAYERS FC SHEET OR APPROVED EQUIVALENT.

- CONSTRUCTION BREAK LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- THE FACE OF ALL CONCRETE AGAINST WHICH NEW CONCRETE IS TO BE CAST SHALL BE CAST VERTICAL OR HORIZONTAL AND TO BE THOROUGHLY SCABBLED.
- ALL CONCRETE SURFACES ARE TO BE CURED FOR SEVEN DAYS AFTER CASTING USING A CURING COMPOUND THAT CONFORMS TO THE RELEVANT AUSTRALIAN STANDARDS AND IS COMPATIBLE WITH THE SPECIFIED FINISHES. U.N.O.

FLOOR SLABS:

- THE SLABS ON GROUND HAVE BEEN DESIGNED WITH MINIMAL REINFORCEMENT TO CONTROL CONCRETE SHRINKAGE IN ORDER TO PROVIDE AN ECONOMIC SLAB. SOME SHRINKAGE CRACKING IN THE SLAB IS TO BE EXPECTED.
- THE SLABS HAVE BEEN DESIGNED AS A FLOATING SLAB HENCE MOVEMENT IN THE SUBGRADE WILL RESULT IN VERTICAL & CURVATURE MOVEMENTS IN THE SLAB ALONG WITH SOME MINOR CRACKING. EXPECTED MOVEMENT TO BE IN THE RANGE OF 8.50 mm.

FLOOR SLAB & FOOTING PLAN



BORED PEIR FOOTING 'BP1'

FOUNDATIONS

- FOUND ALL STRIP AND PAD FOOTINGS INTO NATURAL MATERIAL OR CONTROLLED FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF : 100 kPa.
- FOUND ALL BORED PIERS A MINIMUM SOCKET AS SPECIFIED ON THE DRAWINGS INTO NATURAL MATERIAL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF : 250 kPa.
- BORED PIER BASES SHALL BE CLEAN OF LOOSE AND WATER AFFECTED MATERIAL. BORED PIER BASES SHALL BE CLEANED BY HAND OR BY CLEANOUT BUCKET. THE PRACTICE OF ADDING WATER AND SPINNING THE AUGER SHALL NOT BE PERMITTED.
- THE CONTRACTOR SHALL AT ALL TIMES DURING BORED PIER CONSTRUCTION HAVE A SUITABLE WATER PUMP ON SITE. PROVIDE TEMPORARY LINERS WHERE SITE CONDITIONS REQUIRE TO PREVENT WATER INGRESS AND COLLAPSE. TEMPORARY LINERS TO BE PROVIDED.
- DEWATER ALL FOOTINGS. ALL CONCRETE TO FOOTINGS TO BE VIBRATED.
- ADDITIONAL FOUNDATION PIERS AND REINFORCING WILL BE REQD. WHERE FOUNDATION MATERIAL IS LOOSENED BY EXCAVATIONS FOR SERVICES OR CONSTRUCTED ADJACENT TO FILL BATTERS OR TRENCHES FOR SERVICES. UNLESS APPROVED BY STRUCTURAL ENGINEER. EXCAVATIONS SHALL NOT EXTEND BELOW A LINE DIPPING AT 45 DEGREES AND AWAY FROM THE NEAREST UNDERSIDE CORNER OF ANY FOOTING.
- POSITIONAL TOLERANCE OF BORED PIERS ± 75 mm.

REINFORCEMENT

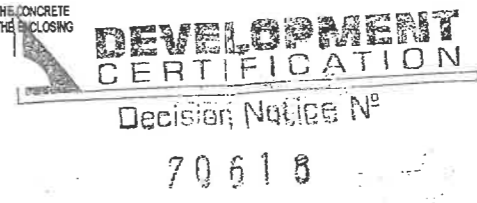
- ALL REINFORCING TO BE IN ACCORDANCE WITH AS1302, 1303 & 1304.
- REINFORCING LAPS TO BE (U.N.O.)

N12 - 500	N24 - 1000
N16 - 800	N28 - 1200
N20 - 900	N32 - 1500
- FABRIC

SUSPENDED SLAB & PANELS
420 mm (3 cross wires + 20 mm)
SLABS ON GROUND
220 mm (2 cross wires + 20 mm)
- CHAIR UP ALL REINFORCING AT 800mm (MAXIMUM) CENTRES TO ENSURE CORRECT COVERS DURING CONCRETE POUR.
- REINFORCEMENT IS SHOWN DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- DO NOT CUT REINFORCEMENT ON SITE TO CLEAR PENETRATIONS. DISPLACE REINFORCEMENT SLIGHTLY AS NECESSARY TO CLEAR BLOCKOUTS.
- WELDING OF REINFORCEMENT IS NOT PERMITTED.
- WHERE NO STEEL IS SHOWN ON THE DRAWING AT RIGHT ANGLES TO MAIN REINFORCEMENT PLACE H12-300 DISTRIBUTION BARS U.N.O.
- ALL OPENINGS AND RE-ENTRANT ANGLES IN THE CONCRETE SHALL HAVE 2N12 TOP AND BOTTOM ALONG THE CLOSING EDGE AND PROJECTING 800 PAST CORNERS.

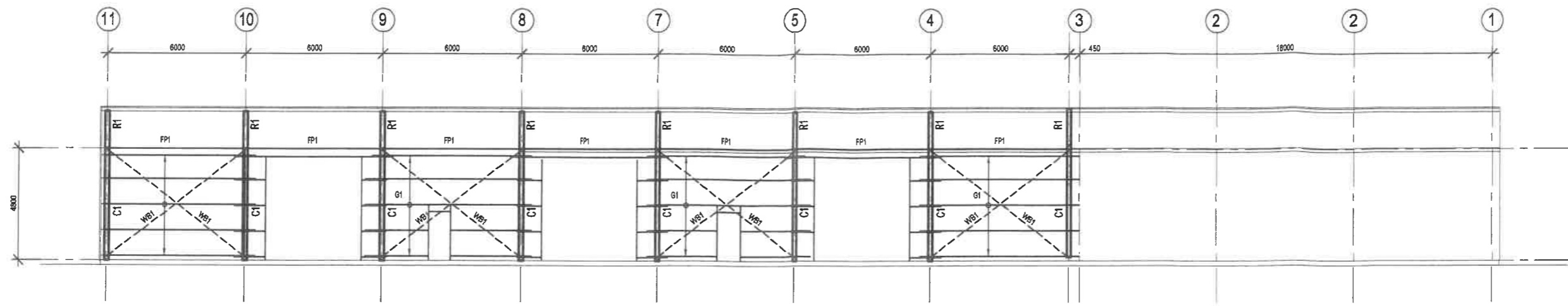
EXCAVATIONS

- THE CONTRACTOR IS TO ENSURE STABILITY OF ALL EXCAVATIONS AND EXISTING STRUCTURES DURING CONSTRUCTION. EXCAVATIONS DRAWN BEHIND ELEMENTS ARE INDICATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSESS ENCOUNTERED GROUND CONDITIONS AND BATTER EXCAVATIONS TO MAINTAIN STABILITY.
- WHERE MATERIAL IS REMOVED FROM BESIDE OR BELOW EXISTING FOUNDATIONS ALL BACKFILL MUST BE CONCRETE. ALL BACKFILL TO TRENCHES TO BE IN ACCORDANCE WITH EARTHWORKS NOTES.
- EXISTING PAVEMENTS MUST NOT BE LOADED DURING EXCAVATION FOR A DISTANCE OF 3m FROM EXCAVATION EDGE.
- REFER FOUNDATION NOTES IF SERVICES ARE LOCATED CLOSE TO NEW OR EXISTING FOOTINGS.
- LONG AND SHORT TERM BATTERS LONG TERM 4H:1V U.N.O. REFER SOIL REPORT

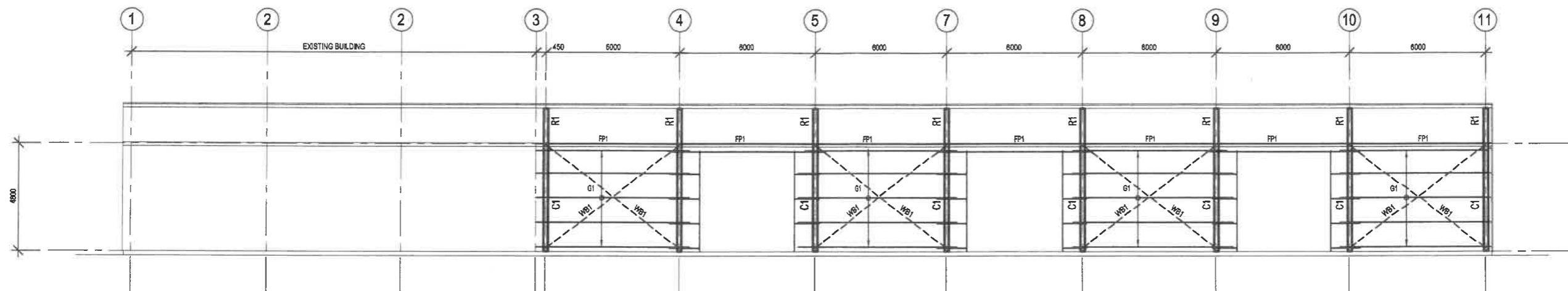


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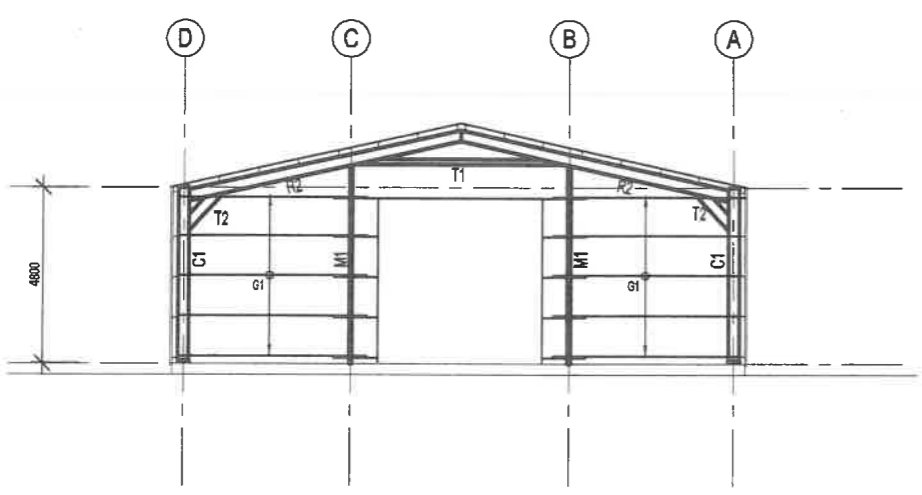
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ELEVATION ON GRID - 6



ELEVATION ON GRID - 6



ELEVATION ON GRID - 11



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					design McK	date SEPT '06	sheet no. S03	issue A