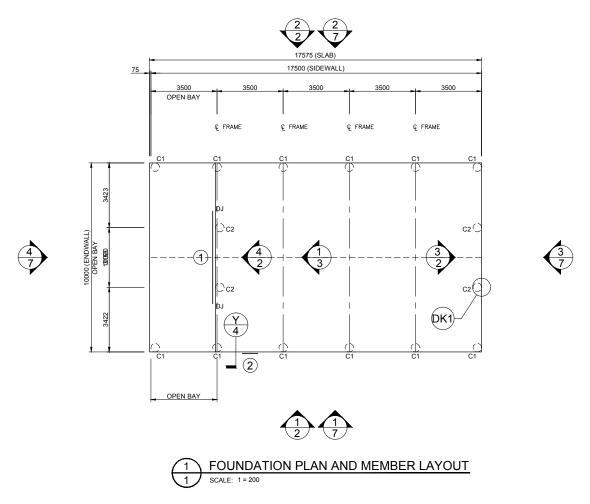
IF IN DOUBT, ASK.



DJ - INDICATES DOOR JAMBS AT THESE LOCATIONS. REFER TO SHEET #4 ON THE DOOR SCHEDULE FOR SIZES

NORTHERN CONSULTING

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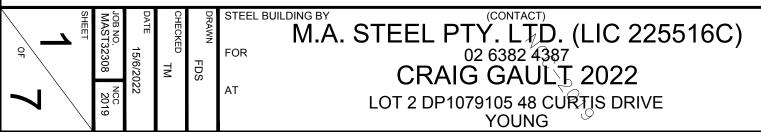
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MEMBER LEGEND

C20019 C2 C15012



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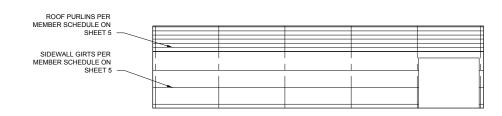
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C1

ALL DIMENSIONS TO BE VERIFIED ON SITE

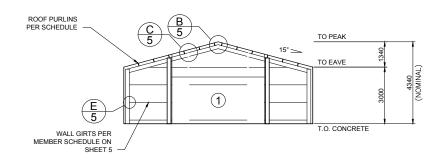
DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY.

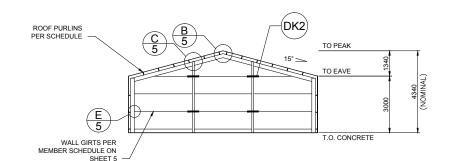




SIDEWALL EXTERIOR ELEVATION







4 ENDWALL INTERIOR ELEVATION
2 SCALE: 1 = 200

ENDWALL INTERIOR ELEVATION SCALE: 1 = 200

DIAGONAL X BRACING NOT REQUIRED IN THIS BUILDING. CLADDING DIAPHRAGM SUFFICIENT. FLY BRACING IS INCLUDED TO BE PLACED ON EVERY SECOND PURLIN AND GIRT ON ENDWALL MULLIONS, INTERNAL COLUMNS AND INTERNAL RAFTERS.

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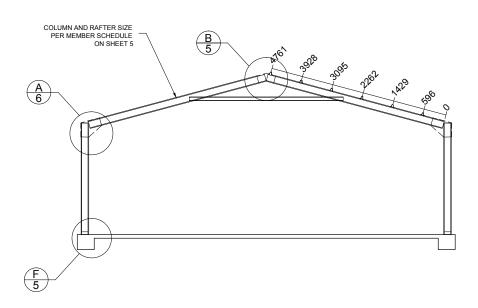
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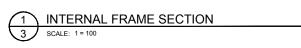
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Refer to Sheet #4 for concrete specification.

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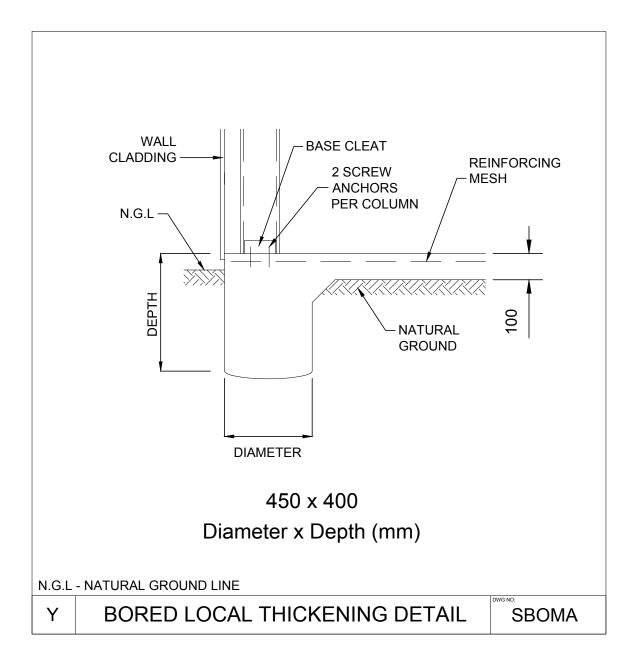
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- 1. GOVERNING CODE : NATIONAL CONSTRUCTION CODE (NCC), LOADING TO AS1170 ALL SECTIONS. BUILDING SUITABLE AS EITHER A PRIVATE CARACE CLASS 10A, OR A FARM SHED (CLASS 7 OR 8), UNLESS OTHERWISE SPECIFICALLY NOTED. FOR USE AS A FARM SHED, IT MUST MEET THE FOLLOWING REQUIREMENTS:

 BE LESS THAN 2000 SQM IN AFRA (INCLUSIVE OF ANY MEZZANINE FLOOR AREA).

 MUST BE LOCATED ON A FARM AND USED IN CONNECTION WITH FARMING PURPOSES BY PROPIE, WITH A MAXIMUM OF 1 FERSON PER 200 SQM OR 2 PERSONS MAXIMUM IN TOTAL WHICHEVER IS THE LESSER.

CERTIFICATION IS ONLY VALID WHEN BUILDING IS SUPPLIED BY A DISTRIBUTOR OF FBHS. DRAWINGS ARE PROVIDED FOR THE DUAL PURPOSE OF OBTAINING BUILDING PERMITS AND AIDING CONSTRUCTION. ANY OTHER USE OR REPRODUCTION IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM FBHS.

NEAFROCCTION IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM.

TRESS DRAWINGS ARE NOT VALID UNLESS SIGNED BY THE ENGINEER. THE ENGINEER ACCEPTS NO LIABILITY OR RESPONSIBILITY FOR DRAWINGS WITHOUT A SIGNATURE. EACH TITLE BLOCK CONTAINS A WATER MARK UNDER THE CUSTOMERS NAME CONTAINING THE DATE OF PRODUCTION OF THE DRAWINGS; THE DRAWINGS ARE TO BE SUBMITTED TO COUNCIL WITHIN 21 DAYS OF THIS DATE. THIS IS TO ENSURE THAT ONLY CURRENT DRAWINGS ARE IN CIRCULATION.

CONCIL WITHIN 21 DAYS OF THIS DATE. THIS IS TO ENSURE THAT ONLY CURRENT DRAWINGS ARE IN CIRCULATION.

CONTRACTOR RESPONSIBILITIES:

CERTIFIER AND CONTRACTOR TO CONFIRM [ON SITE] THAT THE WIND LOADINGS APPLIED TO THIS DESIGN ARE TRUE
AND CORRECT FOR THE ADDRESS STATED IN THE TITLE BLOCK.

CONTRACTOR SHALL VERIFY AND CONFIRM ALL EXISTING CONDITIONS AND DIMENSIONS. ENGINEER SHALL BE NOTIFIED
OF ANY DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS PRIOR TO START OF WORK.

CONTRACTOR MUST NOT MAKE ANY DEVIATION FROM THE PROVIDED PLANS WITHOUT FIRST DETRAINING WRITTEN APPROVAL

PROMICANE THE INTERECTATION PROVIDEDS. THE ENVINEED OF DRAW TO DESPONDED THY PRO
CURRENT THE INTERECTATION OF THE INCLUSION. FROM ONE THE UNDERSIGNING ENGINEERS. THE ENGINEER / FBHS TAKE NO RESPONSIBILITY FOR CHANGES MADE WITHOUT WRITTEN APPROVAL.

CONTRACTOR IS RESPONSIBLE FOR ENSURING NO PART OF THE STRUCTURE BECOMES OVERSTRESSED DURING

CONSTRUCTION.

BUILDING IS NOT STRUCTURALLY ADEQUATE UNTIL THE INSTALLATION OF ALL COMPONENTS AND DETAILS SHOWN IS COMPLETED IN ACCORDANCE WITH THESE DRAWINGS.

THE INDICATED DRAWING SCALES ARE APPROXIMATE. DO NOT SCALE DRAWINGS FOR CONSTRUCTION PURPOSES. FOR FUTHER DIRECTIONS ON CONSTRUCTION THE CONTRACTOR SHOULD CONSULT THE APPROPRIATE INSTRUCTION MANUAL.

THE ENGINEER / FBHS ARE NOT ACTING AS PROJECT MANAGERS FOR THIS DEVELOPMENT, AND WILL NOT BE PRESENT

DURING CONSTRUCTION.
THE UNDERSIGNING ENGINEERS HAVE REVIEWED THIS BUILDING FOR CONFORMITY ONLY TO THE STRUCTURAL DESIGN FORTIONS OF THE GOVERNING CODE. THE PROJECT MANAGER IS RESPONSIBLE FOR ADDRESSING ANY OTHER CODE REQUIREMENTS APPLICABLE TO THIS DEVELOPMENT.
THESE DOCUMENTS ARE STAMPED ONLY AS TO THE COMPONENTS SUPPLIED BY FBHS. IT IS THE RESPONSIBILITY OF THE

THESE DOOMENTS ARE STANDED ONLY AS TO THE COMPONENTS SUPPLIED BY HEHS. IT'S THE RESENCIBILITY OF THE PURCHASER TO COORDINATE DRAWINGS PROVIDED BY HEHS THIT OTHER PLANS AND/OR OTHER COMPONENTS THAT ARE PART OF THE OVERALL PROJECT. IN CASES OF DISCREPANCIES, THE LATEST DRAWINGS PROVIDED BY FEHS SHALL GOVERN. NO ALTERATIONS TO THIS STRUCTURE (INCLUDING REMOVAL OF CLADDING) ARE TO BE UNDERTAKEN WITHOUT THE CONSENT OF THE CERTIFYING ENGINEER.

OPENINGS SUCH AS WINDOWS AND DOORS NEED TO BE INSTALLED AS PER THE PRODUCT MANUFACTURER'S INFORMATION/DETAILS.

6. INSPECTIONS :

NO SPECIAL INSPECTIONS ARE REQUIRED BY THE GOVERNING CODE ON THIS JOB. ANY OTHER INSPECTIONS REQUESTED BY THE LOCAL BUILDING DEPARTMENT SHALL BE CONDUCTED AT THE OWNER'S EXPENSE.

SOIL REQUIREMENTS: :
SITE CLASSIFICATION TO BE A, S OR M ONLY. SOIL SAFE BEARING CAPACITY VALUE INDICATED ON DRAWING SHEET 4 SITE CLASSIFICATION TO BE A, S OR M ONLY. SOIL SAFE BEARING CAPACITY VALUE INDICATED ON DRAWING SHEET 4 COCURS AT 170ST 100TH BELOW FINISH GRADE, OR AT FROST DEPTH SECCIFED BY LOCAL BUILDING DEPARTMENT, WHICHEVER IS THE LOWEST ELEVATION. REGARDLESS OF DETAIL Y ON SHEET 4 THE MINIMUM FOUNDATION DEPTH SHOULD BE 100MM INTO NATURAL GROUND OR BELOW FROST DEPTH SPECIFIED BY LOCAL COUNCIL. ROLLED OR COMPACTED FILL MAY BE USED UNDER SLAB, COMPACTED IN 150rm LAYERS TO A MAXIMUM DEPTH OF 900rm. CONCRETE FOUNDATION EMBELMENT DEPTHS DO NOT APPLY TO LOCATIONS WHERE ANY UNCOMPACTED FILL OR DISTURBED GROUND EXISTS OR WHERE MALLS OF THE EXCAVATION WILL NOT STAND WITHOUT SUPPLEMENTAL SUPPORT, IN THIS CASE SEEK FURTHER ENGINEERING ADVICE.

CLASS 10a or Class 7 FOOTING DESIGNS:

CLASS 10a or Class 7 FOOTING DESIGNS:
THE FOUNDATION DOCUMENTED IS ALSO APPROPRIATE FOR CLASS 10a or CLASS 7 BUILDING DESIGNS ON 'M-D', 'H',
'H-D' OR 'E' CLASS SOILS, IF TOTAL SLAB AREA IS UNDER 100m SQUARE AND THE MAXIMUM SLAB DIMENSION (LENGTH
AND WIDTH) IS LESS THAN OR EQUAL TO 12m.
PLEASE BE AWARE THAT THE SLAB DESIGN FOR H & E CLASS SOILS IN THESE INSTANCES ARE DESIGNED TO
EXPERIENCE SOME CRACKING. THIS CRACKING IS NOT CONSIDERED A STRUCTURAL FLAW OR DESIGN ISSUE, AND IS
SIMPLY COMMENTED IN NATURE. IF THIS IS A CONCENT TO THE CLIENT IT IS ADVISED THEY DISCUSS OTHER OPTIONS
WITH THE RELEVANT DISTRIBUTOR FRIOR TO THE POURING OF THE SLAB.

CONCERTE REQUIREMENTS:

WITH THE RELEVANT DISTRIBUTOR PRIOR TO THE POURING OF THE SLAB.

CONCRETE REQUIREMENTS:

ALL CONCRETE DETAILS AND PLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH AS2870 AND AS3600.

CONCRETE SHALL HAVE A MIN. 28-DAY STRENGTH OF 20MPA FOR EXPOSURE A1 & B1, 25MPA FOR EXPOSURE A2 & B2 AND 32MPA FOR EXPOSURE C, IN ACCORDANCE WITH SECTION 4, AS3600. CEMENT TO BE TYPE A. MAX AGGREGATE SIZE OF 20mm. SLUMP TO BE 80mm +-15mm. SLABS TO BE CURED FOR 7 DAYS BY WATERING OR COVERING WITH A PLASTIC MEMBRANE, AFTER WHICH CONSTRUCTION CAN BEGIN, DUE CARE GIVEN NOT TO OVER-TIGHTEN HOLD DOWN BOLTS. GIVEN ALLOWABLE SOIL TYPES 1 LAYER OF SL7Z REINFORCING WESH IS TO BE INSTALLED ON STANDARD SLABS WITH A MINIMUM 30MM COVER FROM CONCRETE SURFACE. CONCRETE REINFORCING TO CONFORM TO AS 1302, AS1303 & AS 1304. ALL REINFORCING COVER TO BE A MINIMUM OF 30mm.

STRUCTURAL STEEL REQUIREMENTS:

10. STRUCTURAL STEEL REQUIREMENTS:

ALL STRUCTURAL STEEL, INCLUDING SHEETING THOUGH EXCLUDING CONCRETE REINFORCING, SHALL CONFORM TO AS 1397 (GAUGE <= 1mm fy = 550MPa, GAUGE >= 1.5mm fy = 450MPa).

NO WELDING IS TO BE PERFORMED ON THIS BUILDING.

ALL STRUCTURAL MEMBERS AND CONNECTIONS DESIGNED TO AS4600. ALL BOLT HOLE DIAMETERS TO STRAMIT GENERAL

- 11. FOOT TRAFFIC:
 FOR ERECTION AND MAINTENANCE PLEASE NOTE THE FOLLOWING DEFINED FOOT TRAFFIC ZONES:
 CORRUGATED: WALK ONLY WITHIN 200MM OF SCREW LINES. FEET SPREAD OVER AT LEAST TWO RIBS.
 MONOCLAD: WALK ONLY IN PANS, OR ON RIBS AT SCREW LINES.

PROJECT DESIGN CRITERIA

ROOF LIVE LOAD: 0.25 kPa

BASIC WIND SPEED: VR 45 m/s

SITE WIND SPEED: VsitB 39.2 m/s

WIND REGION: Reg A

TOPOGRAPHY FACTOR, Mt: 1 SHIELDING FACTOR, Ms: 1

MAX GROUND SNOW LOAD: N/A MAX ROOF SNOW LOAD: N/A

SITE ALTITUDE: N/A

TERRAIN CATEGORY: TCat 2.5

SOIL SAFE BEARING CAPACITY: 100 kPa

RETURN PERIOD: 1:500 LIMITING CPL 1: -0.455 LIMITING CPI 2: 0.49 IMPORTANCE LEVEL: 2

DETAIL KEYS

(DK1) ENDWALL VERTICAL MULLION (SEE DETAIL C/5 FOR TOP CONN. AND F/5 FOR BASE CONN.)

(DK2) FLYBRACING PER DETAIL L/5

(DK3) X-BRACING IN ROOF ABOVE (SEE DETAIL M/5)

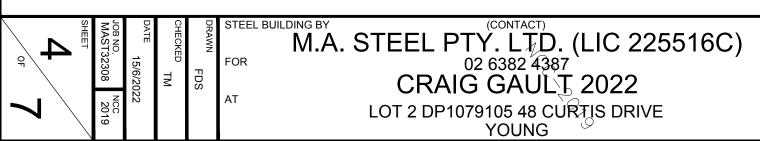
(DK4) DOUBLE X-BRACING IN ROOF ABOVE (SEE DETAIL M/5)

SCHEDULE OF OPENINGS

DOOR		SIZE MAX	OI LIVIIVO	HEADER GIRT	OPENING JAMBS	WIND
1	4900	2480*	2.50H X 5.00 CB *SERIES AA #	SINGLE	C20019P	NO
2	820	2040	EXTERNAL PA DOOR	SINGLE		NO

* ROLLER DOOR OPENING HEIGHT DEPENDENT ON FINAL BUILD LOCATION

DOOR WARNINGS:
END ROLLER DOOR IN BAY 2 OF LEFT WALL MAY BE TOO BIG TO FIT IN BAY.
END ROLLER DOOR IN BAY 2 OF LEFT WALL MAY BE TOO BIG FOR JAMBS. PLEASE
CHECK JAMBS BEFORE ORDERING.







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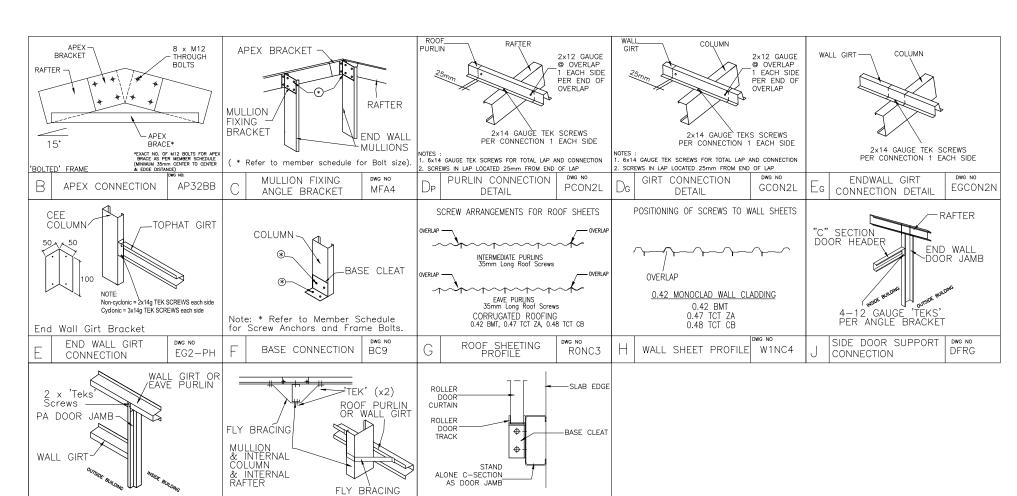
Regn. No. PE0002216

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Signature . ABN 341 008 173 56

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SINGLE DOORS TO SINGLEDWG NO SDSRM

ROLLER DOOR JAMB

MEMBER AND MATERIAL SCHEDULE

1	END WALL RAFTER	Single C20019
2	C.S. FRAME RAFTER	Single C20019
3	END FRAME COLUMN (C1)	Single C20019
4	END FRAME OPEN CORNER COLUMN (C1)	Single C20019
5	C.S. FRAME COLUMN (C1)	Single C20019
6	MULLION (C2)	Single C15012
7	C.S. FRAME APEX BRACE	Single C15012 @ 4.07 LONG 2 bolts each end
8	APEX POSITION FROM RAFTER END	2.07m
9	ANCHOR BOLTS (# PER DETS.)	Screw Anchor 16mm x 100 Galv
10	EAVE PURLIN	C15012 (Eave Purlin 49mm above top of column)
11	TYP. ROOF PURLIN SIZE	Tophat 64 x 1.0
12	MAIN BLDG. PURLIN SPACING	0.833 m. (6 rows) (Max Allow. 1.000m)
13	MAIN BLDG. PURLIN LENGTH	3.85 m. (0.35m Overlap)
14	TYP. SIDEWALL GIRT SIZE	Tophat 64 x 1.0
15	MAIN BLDG. SIDEWALL GIRT SPACING	0.891 m. (3 rows) (Max Allow. 1.000m)
16	MAIN BLDG. SIDEWALL GIRT LENGTH	3.85 m. (0.35m Overlap)
17	TYP. ENDWALL GIRT SIZE	Tophat 64 x 1.0
18	MAIN BLDG. ENDWALL GIRT SPACING	0.930 m. (4 rows) (Max Allow. 0.967m)
19	MAIN BLDG. ENDWALL GIRT LENGTH	3.26 m. (0.1m Overlap)
20	FRAME SCREW FASTENERS	14-13x22 Hex C/S (SP HD 5/16' Hex Drive)
21	FRAME BOLT FASTENERS	Purlin Assy M12x30 Z/P
22	X-BRACING STRAP AND FASTENERS	None required for this building. Cladding Diaphragm Sufficient.
23	WALL COLOUR	WINDSPRAY
24	ROOF COLOUR	BASALT
25	ROLLER DOOR COLOUR	WINDSPRAY
26	P.A. DOOR COLOUR	WINDSPRAY
27	DOWNPIPE COLOUR	WINDSPRAY
28	GUTTER COLOUR	MONUMENT
29	CORNER FLASHING COLOUR	WINDSPRAY
30	BARGE FLASHING COLOUR	MONUMENT
31	OPENING FLASHING COLOUR	MONUMENT
32	OPEN BAY HEADER HEIGHT	0.35

"C.S." = CLEARSPAN "L." = LEFT "R." = RIGHT



FLYBRACING

FBRT

PERSONAL ACCESS DOOR

PADD1





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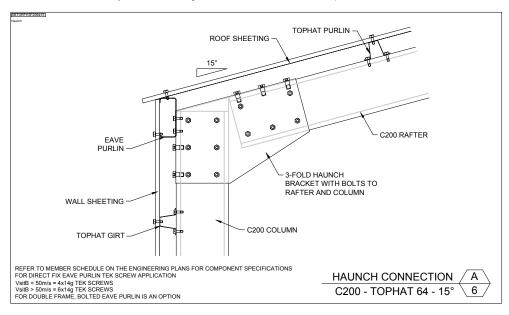
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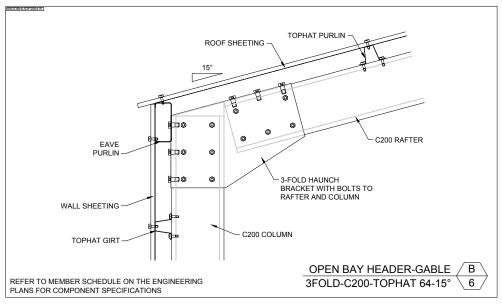
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Signature

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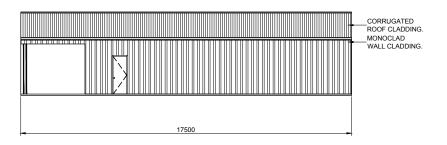
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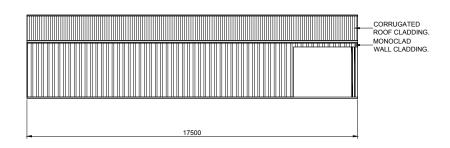
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Date 15/6/2022

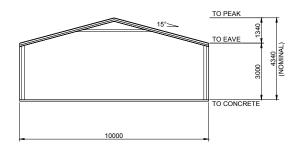
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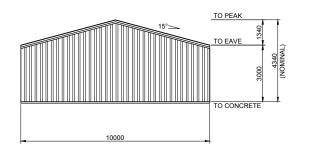














BUILDING COLOURS				
WALL	WINDSPRAY			
ROOF	BASALT			
ROLLER DOOR	WINDSPRAY			
P.A. DOOR	WINDSPRAY			
DOWNPIPE	WINDSPRAY			
GUTTER	MONUMENT			
CORNER FLASHING	WINDSPRAY			
BARGE FLASHING	MONUMENT			
OPENING FLASHING	MONUMENT			

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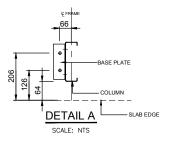
Currajong, Qld 4812 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56

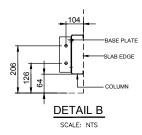
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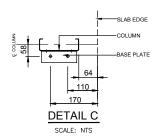
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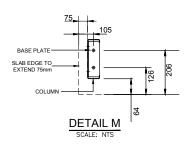
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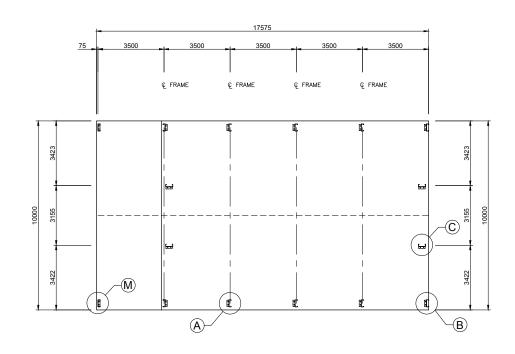
Mr Timothy Roy Messer BE MIEAust RPEQ











BOLT LAYOUT PLAN
SCALE: 1 = 200

IF YOU HAVE A ROLLER DOOR IN THE GABLE END OF YOUR SHED, CONTACT YOUR DISTRIBUTOR TO SEE IF MULLION NEEDS TO BE ROTATED FOR USE AS A DOOR JAMB.

NOT PART OF COUNCIL APPLICATION DOCUMENTATION

DRAWN FDS

CHECKED TM

DATE 15/6/2022

JOB NO.
MAST32308

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BOLT LAYOUT PLAN